TEST REPORT

FCC ID: 2AQ95-C22K Product: Bluetooth module Model No.: C22K Additional Model No.: N/A Trade Mark: NIU Report No.: TCT210125E001 Issued Date: Feb. 08, 2021

Issued for:

Beijing Niu Technology Co., Ltd

Block A, 11F, No.10 Wangjing street, Chaoyang, Beijing, 100102 China

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339 FAX: +86-755-27673332

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TCT 通测检测 TESTING CENTRE TECHNOLOGY

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TCT 通测检测 1. Test Certification

Product:	Bluetooth mod	lule				
Model No.:	C22K					
Additional Model No.:	N/A	X	9			S
Trade Mark:	NIU					
Applicant:	Beijing Niu Teo	chnology Co.,	Ltd			
Address:	Block A, 11F, N	No.10 Wangjin	g street, Chac	oyang, Beijing,	100102 C	hina
Manufacturer:	Changzhou W	ujin Blector El	ectronic Co., I	_td.		No.
Address:	19 Mahang So Zone, Changz	•		igh And New T	Fech Devel	opment
Date of Test:	Jan. 26, 2021	– Feb. 08, 202	21)	No.	
Applicable Standards:	FCC CFR Title FCC KDB 558 ANSI C63.10:2	074 D01 15.24				

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

	(c)			
Tested B	y: Kein Huong	Date:	Feb. 08, 2021	
Reviewed B	y: Buy there	Date:	Feb. 08, 2021	
	Beryl Zhao			
Approved B	y: Jomsm	Date:	Feb. 08, 2021	
	Tomsin		Ś	

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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.
- 5. After pre-testing the two earphones, the two earphones are left and right ears respectively; we found that the left earphone is the worst case, so the results are recorded in this report.

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3. EUT Description

Product:	Bluetooth module
Model No.:	С22К
Additional Model No.:	N/A
Trade Mark:	NIU
Bluetooth Version:	V5.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Data Rate:	LE 1M PHY, LE 2M PHY
Number of Channel:	40
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-1dBi
Power Supply:	DC 3V

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
~ 9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz



4. General Information

4.1. Test environment and mode

Operating Environment:								
Condition	Conducted Emission	Radiated Emission						
Temperature:	25.0 °C	25.0 °C						
Humidity:	55 % RH	55 % 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.

4.2. 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
•••		Serial NO.	FCCID	
Notebook Computer	XiaoXin CHAO5000	PF0WZYD9		Lenovo
Adapter	ADLX65CCG C2A	8SSA10M42805C1S G79N12T6	1	Lenovo

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.

5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab.

The 3m Semi-anechoic chamber 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

The 3m Semi-anechoic chamber of SHENZHEN TONGCE TESTING LAB has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab.

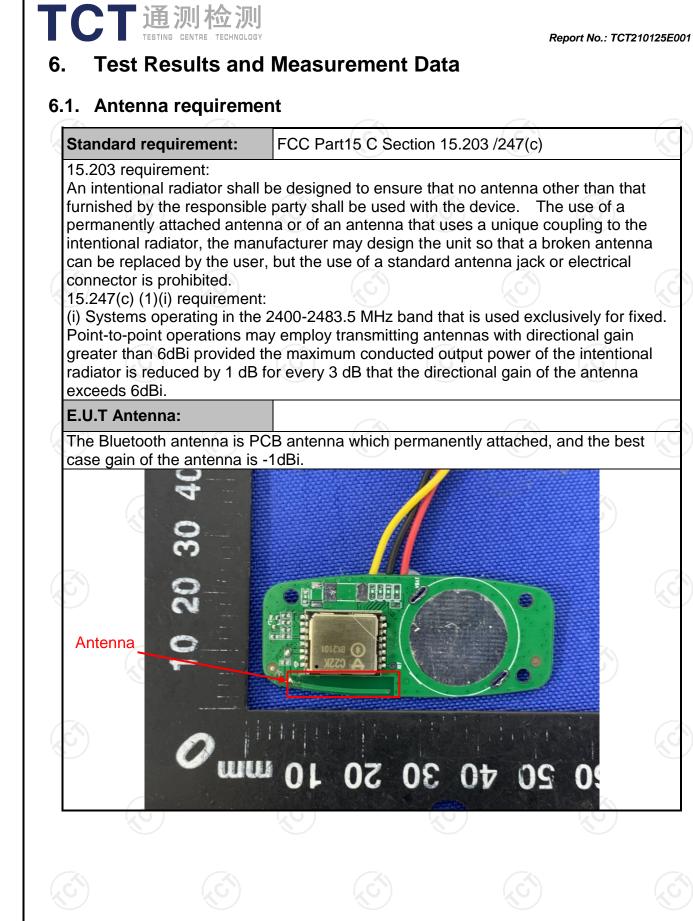
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. 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
9	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



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6.2. Conducted Emission

6.2.1. Test Specification

			6
Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2013		
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto
	Frequency range	Limit (c	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
	Refere	nce Plane	
Test Setup:	E.U.T Adap Test table/Insulation pla Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne	ter — AC power
Test Mode:	Charging + Transmittir	ng Mode	
Test Procedure:	 The E.U.T is connering edance stabilizing provides a 500hm/s 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 	ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm term diagram of the line are checke nce. In order to fir e positions of equi s must be chang	(L.I.S.N.). This pedance for the a 50ohm/50uh ination. (Please test setup and d for maximum of the maximum ipment and all o ed according to

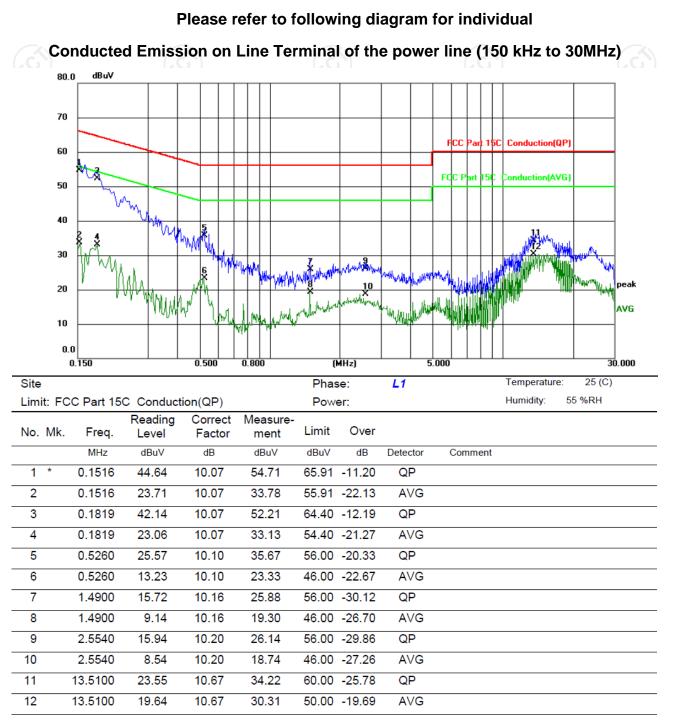
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021					
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021					
Line-5	тст	CE-05	N/A	Sep. 02, 2021					
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A					

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

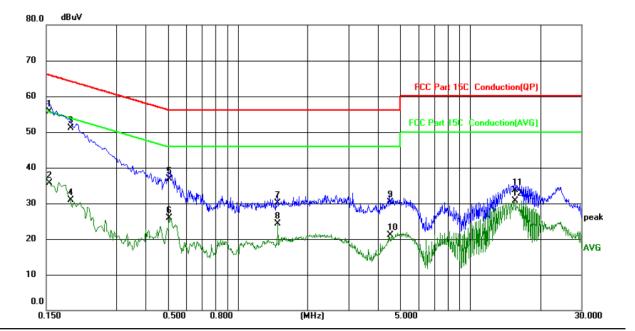
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6.2.3. Test data



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 Page 11 of 61



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

Site						Phas	e:	Ν		Temperature	e: 25 (C)
Lim	it: FC	C Part 15	C Conducti	ion(QP)) Power:					55 %RH	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment		
1	*	0.1548	45.69	10.07	55.76	65.74	-9.98	QP			
2		0.1548	25.59	10.07	35.66	55.74	-20.08	AVG			
3		0.1904	41.06	10.08	51.14	64.02	-12.88	QP			
4		0.1904	20.82	10.08	30.90	54.02	-23.12	AVG			
5		0.5060	26.72	10.10	36.82	56.00	-19.18	QP			
6		0.5060	15.80	10.10	25.90	46.00	-20.10	AVG			
7		1.4860	20.02	10.16	30.18	56.00	-25.82	QP			
8		1.4860	14.22	10.16	24.38	46.00	-21.62	AVG			
9		4.5060	20.11	10.27	30.38	56.00	-25.62	QP			
10		4.5060	10.87	10.27	21.14	46.00	-24.86	AVG			
11		15.4820	22.86	10.80	33.66	60.00	-26.34	QP			
12		15.4820	20.00	10.80	30.80	50.00	-19.20	AVG			

Note1:

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.



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)						
Test Method:	KDB 558074 D01 v05r02						
Limit:	30dBm						
Test Setup:							
Test Mode:	Refer to item 4.1						
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						

6.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4. Emission Bandwidth

6.4.1. 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 4.1						
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						

6.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

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6.5. Power Spectral Density

6.5.1. 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 4.1
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

6.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

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 4.1
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. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. 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). 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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6.6.2. Test Instruments

	Agile Agile Ascer terval of the tem unit (SI).	ent ntest above test i	N9020A U2531A AT890-RFB	(C)	9100619 N/A N/A	Sep. 11, 2 Sep. 02, 2	
neous 14 Bits S/s er Box	Ascer	ntest above test i	AT890-RFB				2021
alibration in	terval of the	above test i			N/A		
			instruments is 12 n			Sep. 02, 2	
				nonths and th	ne calibrations	are traceable	to

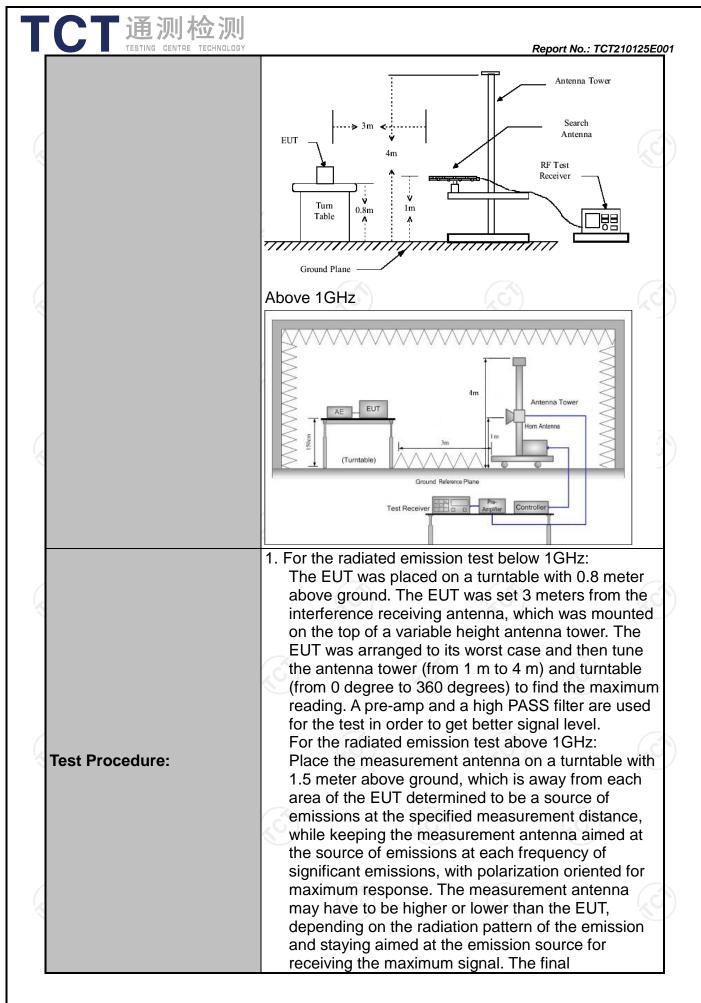
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Method: ANSI C63.10: 2013 Frequency Range: 9 kHz to 25 GHz Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical Operation mode: Refer to item 4.1 Receiver Setup:	Test Requirement:	FCC Part15 C Section 15.209							
Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical Operation mode: Refer to item 4.1 Receiver Setup: Image: Setup 200Hz 1KHz Quasi-peak Quasi-peak VBW Remark 30MHz Quasi-peak 9KHz 10KHz Quasi-peak VBW Quasi-peak Value 30MHz Quasi-peak 9KHz 30KHz Quasi-peak Value Quasi-peak Value 30MHz Quasi-peak 9KHz 30KHz Quasi-peak Value Quasi-peak Value 30MHz Quasi-peak 1KHz Quasi-peak Value Quasi-peak Value 30MHz Quasi-peak 1MHz 10Hz Average Value Above 1GHz Peak 1MHz 10Hz Average Value 100.009-0.490 2400/F(KHz) 30 <td< td=""><td>Test Method:</td><td colspan="7">ANSI C63.10: 2013</td></td<>	Test Method:	ANSI C63.10: 2013							
Antenna Polarization: Horizontal & Vertical Operation mode: Refer to item 4.1 Receiver Setup: Frequency Detector RBW VBW Remark 30MHz Quasi-peak 200Hz 1kHz Quasi-peak Value 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz 150kHz Quasi-peak 10Hz Quasi-peak Value 30MHz 160kHz Quasi-peak 10Hz Quasi-peak Value 30MHz 16Hz Peak 10Hz 20Hz Quasi-peak Value 30MHz 16Hz Peak 10Hz 30KHz Quasi-peak Value 30MHz 10Hz 10Hz 30KHz Quasi-peak Value 30KHz Quasi-peak Value 30MHz 10Hz 10Hz 30MHz Quasi-peak Value 30 30 30 30 30 30 30 30 30 30 30 30 30	Frequency Range:	9 kHz to 25 (GHz	3					
Operation mode: Refer to item 4.1 Frequency Detector RBW VBW Remark 9kHz 150kHz Quasi-peak 200Hz 1kHz Quasi-peak Value 30MHz 150kHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz-1GHz Quasi-peak 120KHz 30kHz Quasi-peak Value 30MHz-1GHz Peak 10HHz 30kHz Peak Value Above 1GHz Peak 1MHz 10Hz Average Value 0.099-0.490 2400/F(KHz) 30 30 30 1.705-30 30 30 30 30 30 1.705-30 30 30 30 30 30 30 1.616:960 200 3 30 30 30 30 30 216:960 500 3 Above 960 500 3 Average bove 1GHz 500 3 Average 500 3 Average bove 1GHz <t< td=""><td>Measurement Distance:</td><td>3 m</td><td>K</td><td>9</td><td></td><td>S.</td><td></td></t<>	Measurement Distance:	3 m	K	9		S.			
Frequency Detector RBW VBW Remark 9HZ-150Hz Quasi-peak 200Hz 1kHz Quasi-peak Value 30MHz-1GHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz-1GHz Quasi-peak 9kHz 30kHz Quasi-peak Value Above 1GHz Peak 1MHz 30Hz Quasi-peak Value 0.099-0.490 2400/F(KHz) 300 30 30 0.490-1.705 2400/F(KHz) 30 30 30 1.705-30 30 30 30 30 30-88 100 3 38-216 150 3 216-960 200 3 Above 960 500 3 Above 960 500 3 Average Peak Above 1GHz 500 3 Average Peak Above 1GHz 500 3 Average Peak For radiated emissions below 30MHz Ender 3m Computer Gener 3m Computer <td colspa<="" td=""><td>Antenna Polarization:</td><td>Horizontal &</td><td>Vertical</td><td></td><td></td><td></td><td></td></td>	<td>Antenna Polarization:</td> <td>Horizontal &</td> <td>Vertical</td> <td></td> <td></td> <td></td> <td></td>	Antenna Polarization:	Horizontal &	Vertical					
BKHz-150KHz Quasi-peak 200Hz 1kHz Quasi-peak Value 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz Quasi-peak 120KHz 30KHz Quasi-peak Value 30MHz 10Hz 10Hz 30KHz Quasi-peak Value Above 1GHz Quasi-peak 120KHz 30KHz Quasi-peak Value Above 1GHz Peak 1MHz 30Hz Peak Value 0.099-0.490 24007F(KHz) 300 30 30 0.099-0.490 24007F(KHz) 300 30 30 30 1.705-30 30 30 30 30 30 30 1.705-30 30	Operation mode:	Refer to item	14.1		3				
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Above 1GHz Peak 1MHz 3MHz Peak Value Frequency Field Strength (microvolts/meter) Measurement Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 300 1.705-30 30 30 30-88 100 3 216-960 200 3 216-960 500 3 Above 960 500 3 Above 1GHz 500 3 Peak For radiated emissions below 30MHz Uttrue table 1m Compater Uttrue table 1m Im Reciver Uttrue table 1m Im Im	Receiver Setup:		Quasi-peal	k 9kHz	30kHz	Quasi-peal	k Value		
Above 1GHz Peak 1MHz 10Hz Average Value Frequency Field Strength (microvolts/meter) Measurement Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Frequency Field Strength (microvolts/meter) Detector (meters) Above 1GHz 500 3 Above 1GHz 5000 3 Peak	·	30MHz-1GHz							
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Frequency (microvolts/meter) Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak							- (
0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Events Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak		Frequen	су						
1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average For radiated emissions below 30MHz For radiated emissions below 30MHz Image: Computer of the sector of the sect				2400/F(I	KHz)				
30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer (muter) 0.3m Peak			0.490-1.705 24000/F(KHz)						
B8-216 150 3 216-960 200 3 Above 960 500 3 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Unistance = 3m Unistance (Ground Plane									
Limit: 216-960 200 3 Above 960 500 3 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m Computer Ustance = 3m	Limit:								
Above 960 500 3 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Pre-Amplifier U LUT Official region South region Measurement South region South region South region South region									
Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Pre -Amplifier Unit table EUT Using True table Ground Plane									
Frequency Frequency Frequency Distance (microvolts/meter) Distance (meters) Detector Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Output 0.8m For radiated emissions below 30MHz Distance = 3m Computer Output Output <td colspan="6"></td>									
Above 1GHz 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Image: Comput		Frequency		ovolts/meter)	Distan	ce Det	tector		
For radiated emissions below 30MHz Distance = 3m Computer Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image:		Above 1GHz	2						
Test setup:					•	P	eak		
Test setup:				s delow 30	JMHZ				
Test setup:		Distance = 3m Computer							
0.8m Turn table Im Receiver		Pre -Amplifier							
	Test setup:								
30MHz to 1GHz									
		30MHz to 1GHz							

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[CT 通测检	
	 Report No.: TCT210125E 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 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. Use the following spectrum analyzer settings: Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; 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
Test mode:	Power control level for the tested mode of operation. Refer to section 4.1 for details
Test results:	PASS

6.7.2. Test Instruments

	Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021					
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021					
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021					
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021					
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	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022					
Antenna Mast	Keleto	RE-AM	N/A	N/A					
Line-4	тст	RE-high-04	N/A	Sep. 02, 2021					
Line-8	тст	RE-01	N/A	Jul. 27, 2021					
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A					

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.7.3. Test Data

TCT通测检测 TCT通测检测



No.	Mk	. Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		65.4452	36.53	-14.95	21.58	40.00	-18.42	peak
2		143.7760	45.96	-15.76	30.20	43.50	-13.30	peak
3		213.1035	47.74	-13.26	34.48	43.50	-9.02	peak
4		266.8395	49.98	-11.48	38.50	46.00	-7.50	peak
5	*	300.6988	49.25	-10.16	39.09	46.00	-6.91	peak
6		669.9523	41.10	-5.11	35.99	46.00	-10.01	peak

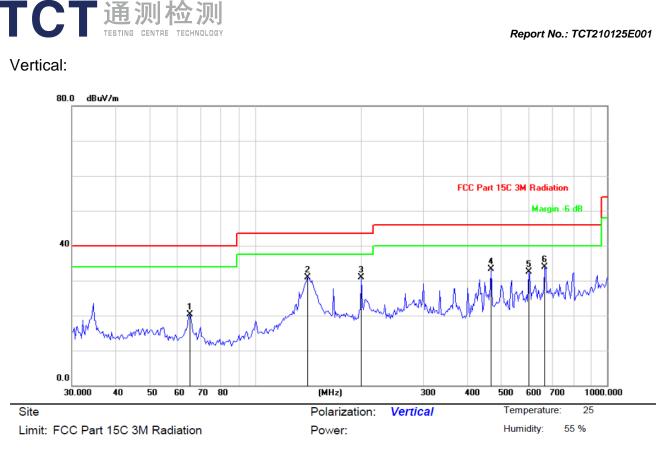
XY/

X

XY)

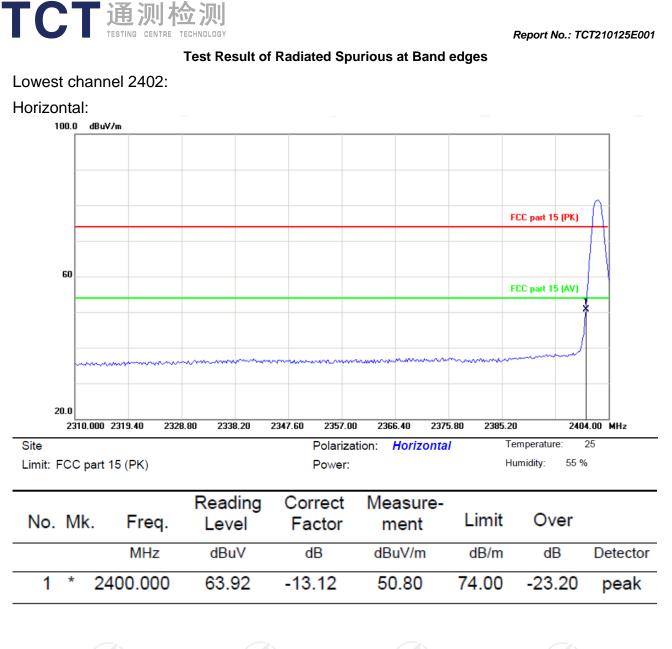
Report No.: TCT210125E001



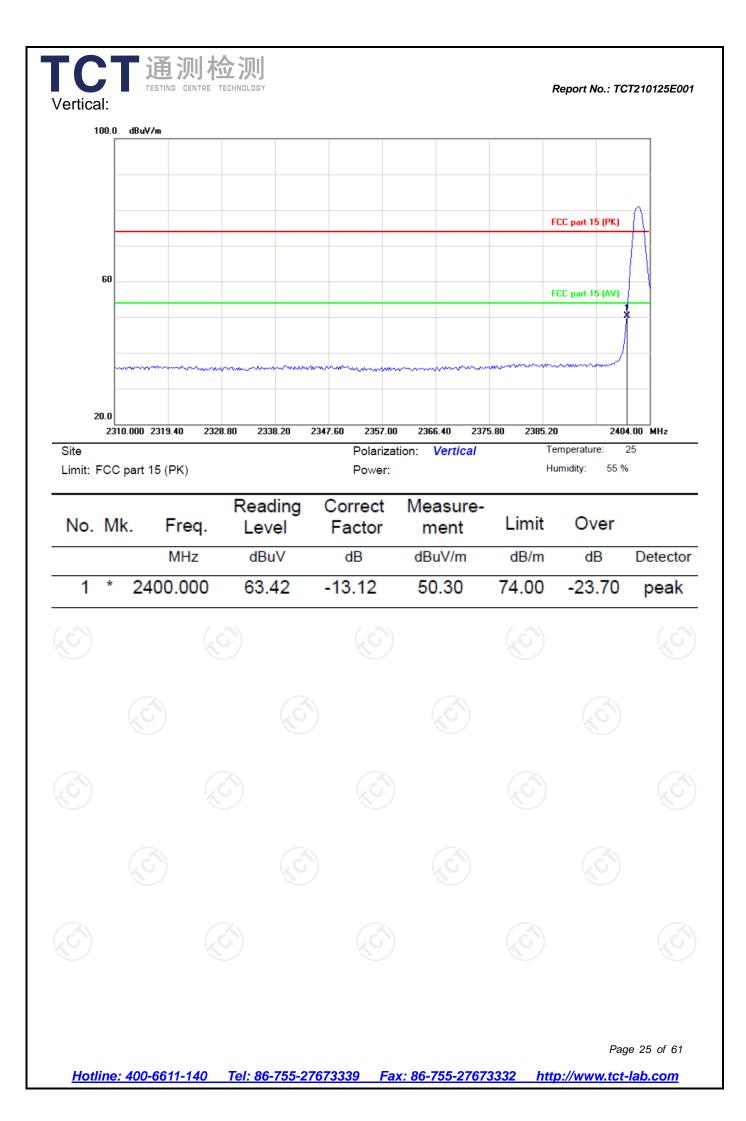


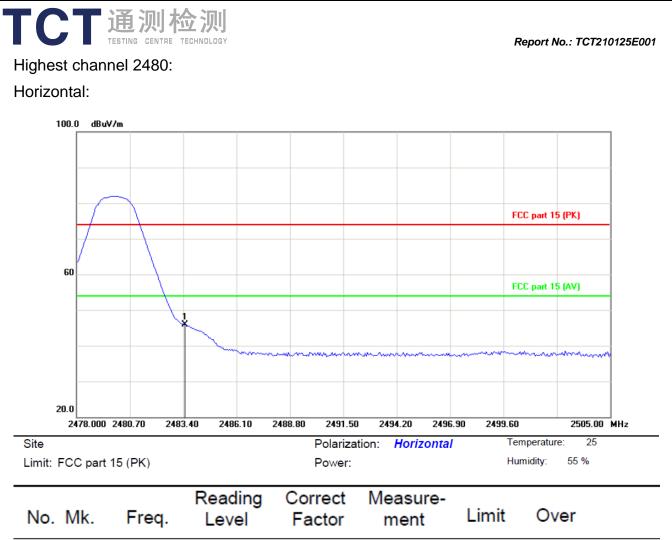
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		64.9869	35.22	-14.88	20.34	40.00	-19.66	peak
2		140.7767	46.77	-15.82	30.95	43.50	-12.55	peak
3		200.0432	44.32	-13.40	30.92	43.50	-12.58	peak
4		468.1650	41.51	-8.28	33.23	46.00	-12.77	peak
5		598.7067	37.75	-5.34	32.41	46.00	-13.59	peak
6	*	665.2610	39.07	-5.09	33.98	46.00	-12.02	peak

- **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
 - 2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.
 - 3. Freq. = Emission frequency in MHz
 - 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 μ V/m) Limits (dB μ V/m)
 - Any value more than 10dB below limit have not been specifically reported * is meaning the worst frequency has been tested in the test frequency range

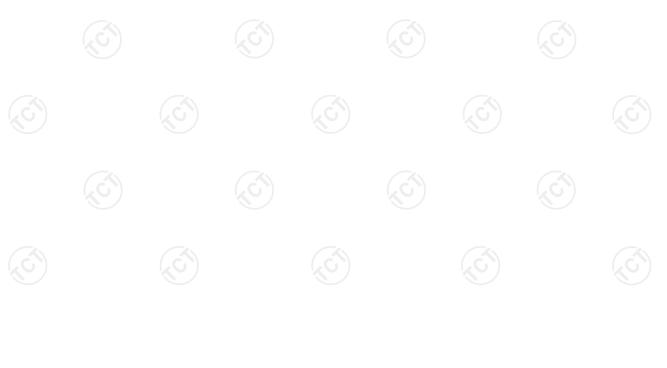




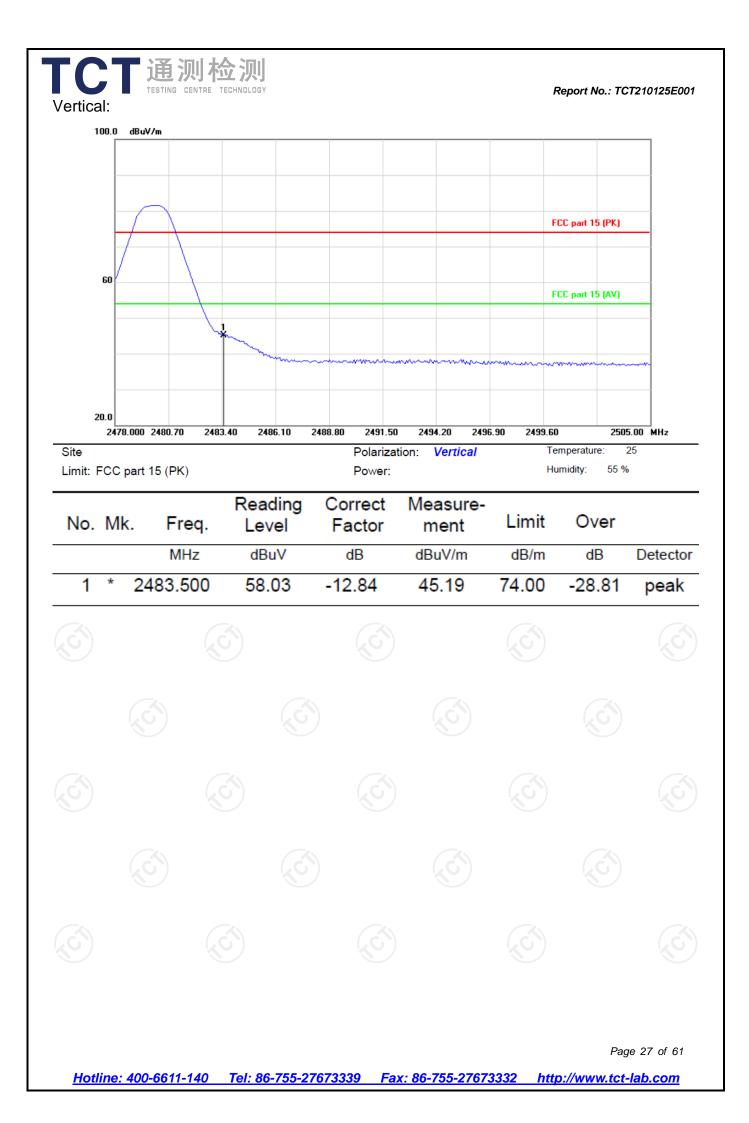




NO. WIK.	rieq.	Level	Factor	ment	Linne	0,001	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 * 24	483.500	58.69	-12.84	45.85	74.00	-28.15	peak



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Above 1GHz

Low channe	ei: 2402 IV	IHZ						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	45.03		0.66	45.69	 74	54	-8.31
7206	Н	33.79		9.50	43.29	 74	54	-10.71
	Н					 		
				_		 		
4804	V	45.47		0.66	46.13	 74	54	-7.87
7206	V	33.83		9.50	43.33	74	54	-10.67
	V							

Middle channel: 2440 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	Н	42.20		0.99	43.19	 74	54	-10.81
7320	Н	32.56		9.87	42.43	 74	54	-11.57
	H			·	(
			N.)				
4880	V	43.18		0.99	44.17	 74	54	-9.83
7320	V	33.90		9.87	43.77	 74	54	-10.23
	V	<u> </u>				 		

High channel: 2480 MHz

Frequency	requency Ant. Pol.		Peak AV				Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)			(dBµV/m)	(dB)
4960	Н	43.31	-6.6	1.33	44.64	<u>.</u>	74	54	-9.36
7440	Н	34.69		10.22	44.91	<u> </u>	74	54	-9.09
	Н								
4960	V	45.05		1.33	46.38		74	54	-7.62
7440	V	35.83		10.22	46.05		74	54	-7.95
<u> </u>	V				J				

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.



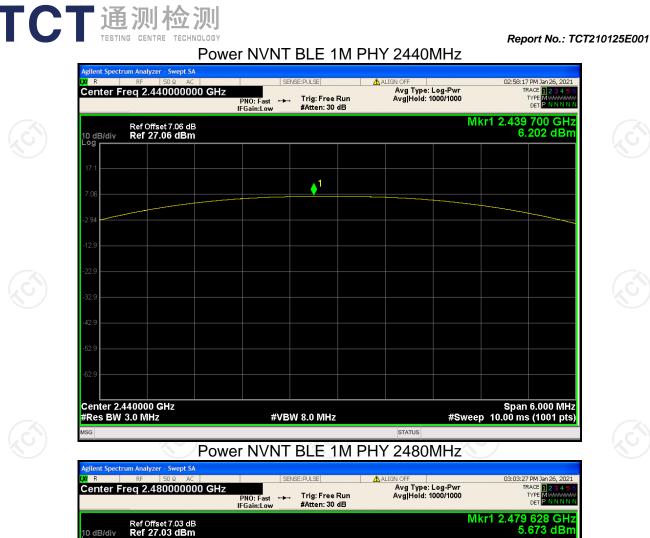
Appendix A: Test Result of Conducted Test

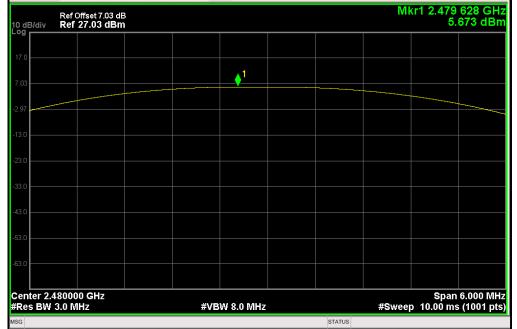
	Maximum	n Conducte	d Outpu	It Power		
Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
BLE 1M PHY	2402	6.143	0	6.143	30 <	Pass
BLE 1M PHY	2440	6.202	0	6.202	30	Pass
BLE 1M PHY	2480	5.673	0	5.673	30	Pass
BLE 2M PHY	2402	6.086	0	6.086	30	Pass
BLE 2M PHY	2440	6.085	0	6.085	30	Pass
BLE 2M PHY	2480	5.590	0	5.590	30	Pass

Power NVNT BLE 1M PHY 2402MHz

R	RF 50 Ω AC		NSE:PULSE	ALIGN OFF	02:45:51 PM Jan 26, 2021
enter F	req 2.402000000 G	FRO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 1000/1000	
0 dB/div	Ref Offset 6.98 dB Ref 26.98 dBm				Mkr1 2.401 736 GHz 6.143 dBm
og					
7.0			1		
.98					
.02					
3.0					
3.0					
3.0					
3.0					
3.0					
3.0					
enter 2.4 Res BW	402000 GHz 3.0 MHz	#VB	W 8.0 MHz	\ #S	Span 6.000 MHz weep 10.00 ms (1001 pts)
iG				STATUS	

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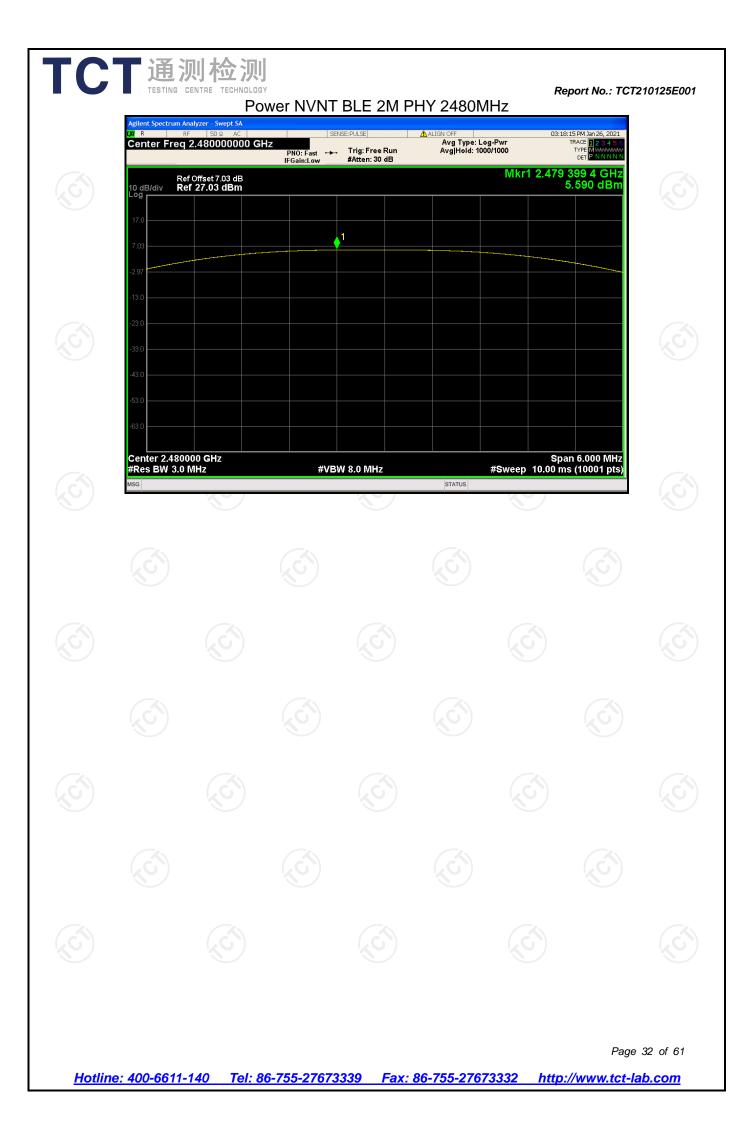




TCT通测检测 Power NVNT BLE 2M PHY 2402MHz

enter Frey Z.	402000000 GHz	PNO: Fast ↔ IFGain:Low	 Trig: Free Run #Atten: 30 dB 	Avg Type: Log-Pwr Avg Hold: 1000/1000	TRACE 123456 TYPE MWWWWW DET PNNNNN
dB/div Ref 2	ffset 6.98 dB 2 6.98 dBm	II Gam.Low		Mł	r1 2.401 754 GHz 6.086 dBm
og					
7.0					
6.98			∮1		
3.02					
13.0					
23.0					
22.0					
33.0					
43.0					
53.0					
63.0					
Res BW 3.0 MI					
G			BW 8.0 MHz	STATUS	10.00 ms (1001 pts)
SG					2
sg gilent Spectrum Analy	Pow rzer - Swept SA	ver NVN⁻	T BLE 2M P	status HY 2440MHz	7
gilent Spectrum Analy R RF	Pow	ver NVN ⁻		STATUS	03:14:06 PM Jan 26, 2021 TRACE 12 2 4 5 4
gilent Spectrum Analy R RF Center Freq 2.	Pow zer - Swept SA 50 ی AC 4400000000 GHz	ver NVN ⁻		ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
gilent Spectrum Analy R RE Center Freq 2. Ref O 0 dB/div Ref 2	Ρου zer - Swept SA 50 Ω AC	ver NVN		ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 12 2 4 5 4
gilent Spectrum Analy R RF Center Freq 2. Ref O	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN		ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
gilent Spectrum Analy R RE Center Freq 2. Ref O 0 dB/div Ref 2	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy R RF Center Freq 2. Ref 0 0 dB/div Ref 2	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN		ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy R RF Center Freq 2. Ref 0 0 dB/div Ref 2	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
gilent Spectrum Analy R RF Center Freq 2. Ref O 0 dB/div Ref 2 17.1 7.06 2.94	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy R RF Center Freq 2. Ref O 0 dB/div Ref 2 7.06	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
gilent Spectrum Analy R RF Center Freq 2. Ref O 0 dB/div Ref 2 17.1 7.06 2.94	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
gilent Spectrum Analy R RF Center Freq 2. Ref 0 0 dB/div Ref 2 9 17.1 2.94 12.9	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy Center Freq 2. Ref O O dB/div Ref 2 O dB/div 7.06 2.94 12.9 22.9 32.9	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy Center Freq 2. Center Freq 2. Ref 0 0 dB/div Ref 2 0 dB/div 12.1 2.9 22.9 32.9	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy Center Freq 2. Ref O O dB/div Ref 2 O dB/div 7.06 2.94 12.9 22.9 32.9	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
glient Spectrum Analy Center Freq 2. Center Freq 2. Ref 0 0 dB/div Ref 2 0 dB/div 12.1 2.9 22.9 32.9	Pow zer : Swept SA 50 g AC 440000000 GHz ffset 7.06 dB	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN
gilent Spectrum Analy R RF center Freq 2. Ref 0 0 dB/div Ref 2 9 12.9 1	2207 - Swept SA 50 Q AC 4400000000 GHz ffset 7.06 dB 27.06 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	ver NVN	TBLE 2M P	ALIGN OFF Avg Type: Log-Pwr AvgHold: 1000/1000	03:14:06 PM Jan 26, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN

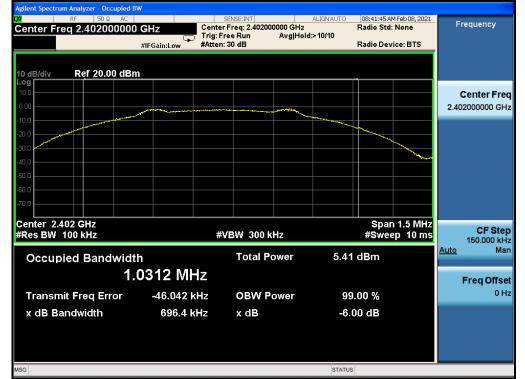
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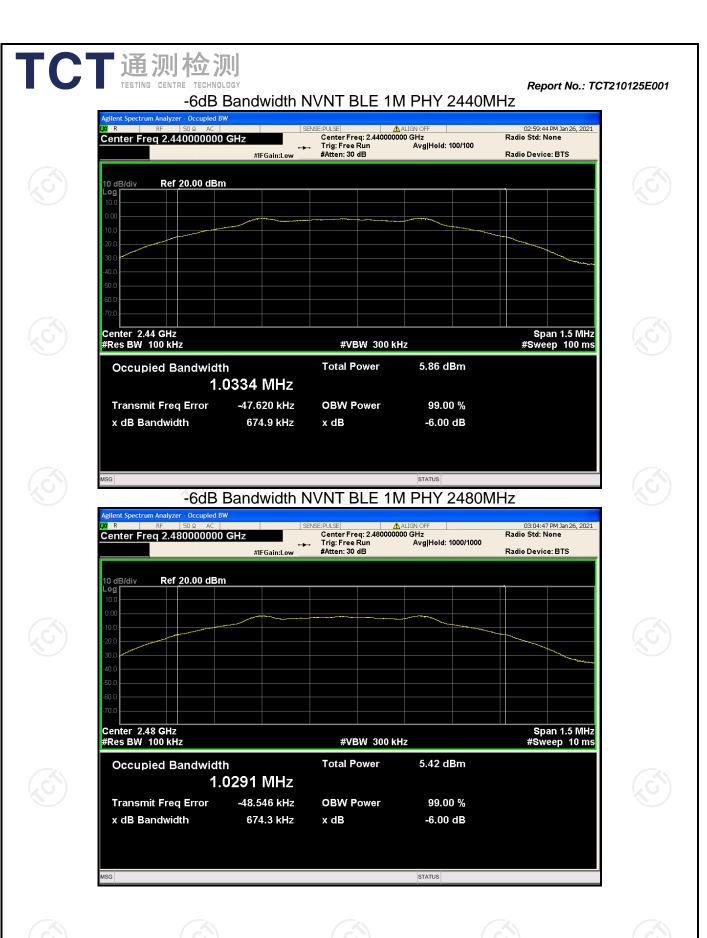
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M PHY	2402	0.6964	0.5	Pass
BLE 1M PHY	2440	0.6749	0.5	Pass
BLE 1M PHY	2480	0.6743	0.5	Pass
BLE 2M PHY	2402	1.353	0.5	Pass
BLE 2M PHY	2440	1.2876	0.5	Pass
BLE 2M PHY	2480	1.283	0.5	Pass

-6dB Bandwidth

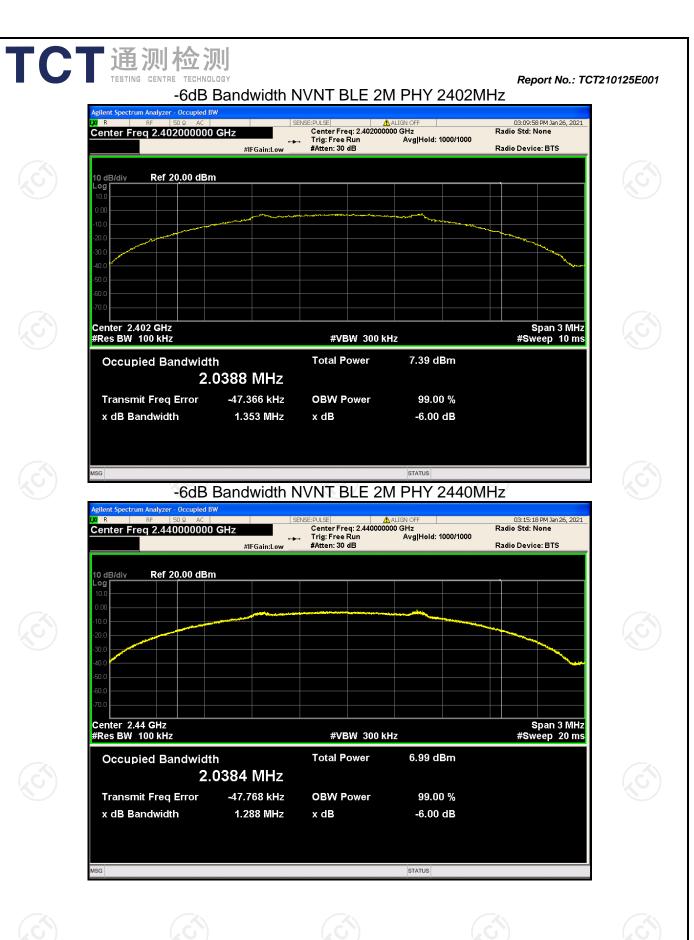
-6dB Bandwidth NVNT BLE 1M PHY 2402MHz



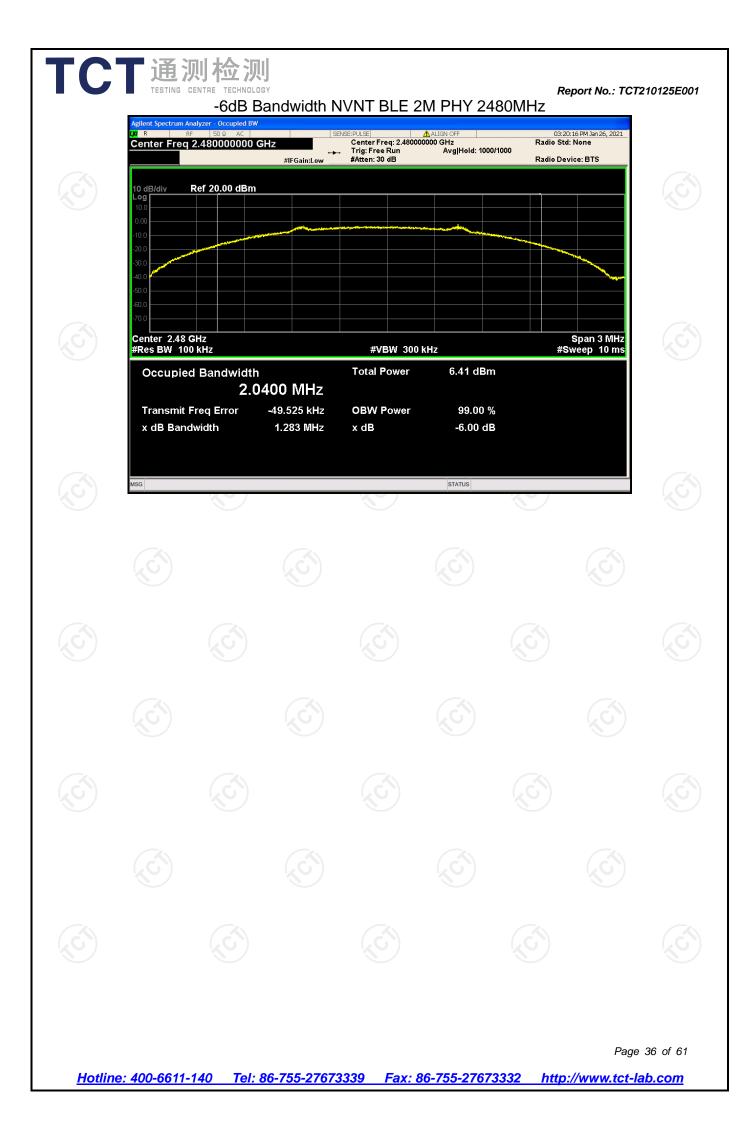
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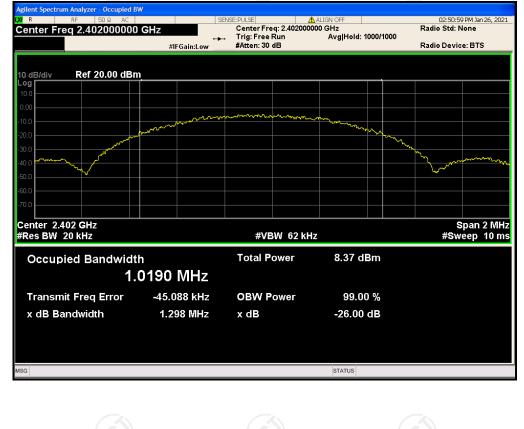




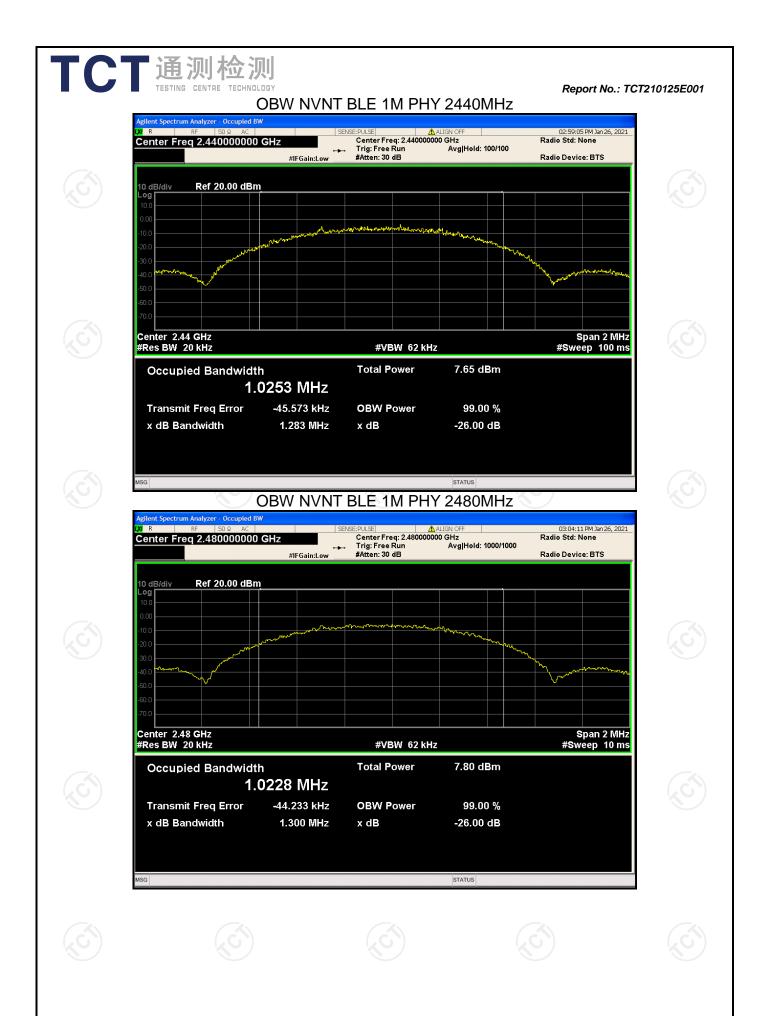
Mode	Frequency (MHz)	99% OBW (MHz)	Verdict
BLE 1M PHY	2402	1.019	Pass
BLE 1M PHY	2440	1.0253	Pass
BLE 1M PHY	2480	1.0228	Pass
BLE 2M PHY	2402	2.0459	Pass
BLE 2M PHY	2440	2.0482	Pass
BLE 2M PHY	2480	2.0647	Pass

Occupied Channel Bandwidth

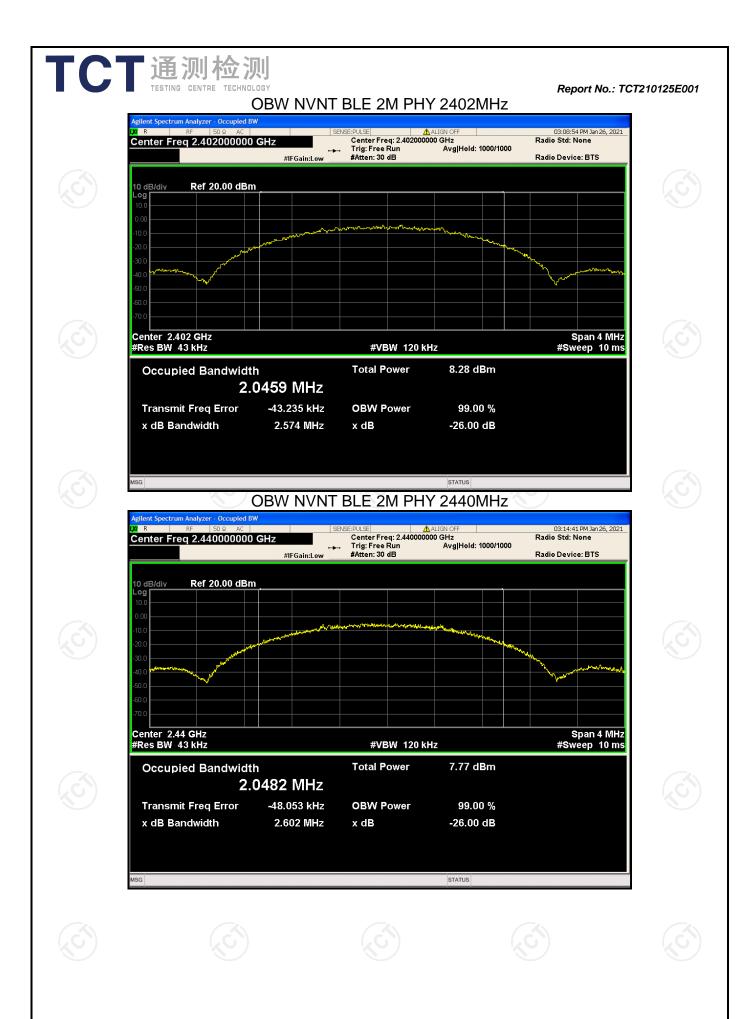
OBW NVNT BLE 1M PHY 2402MHz



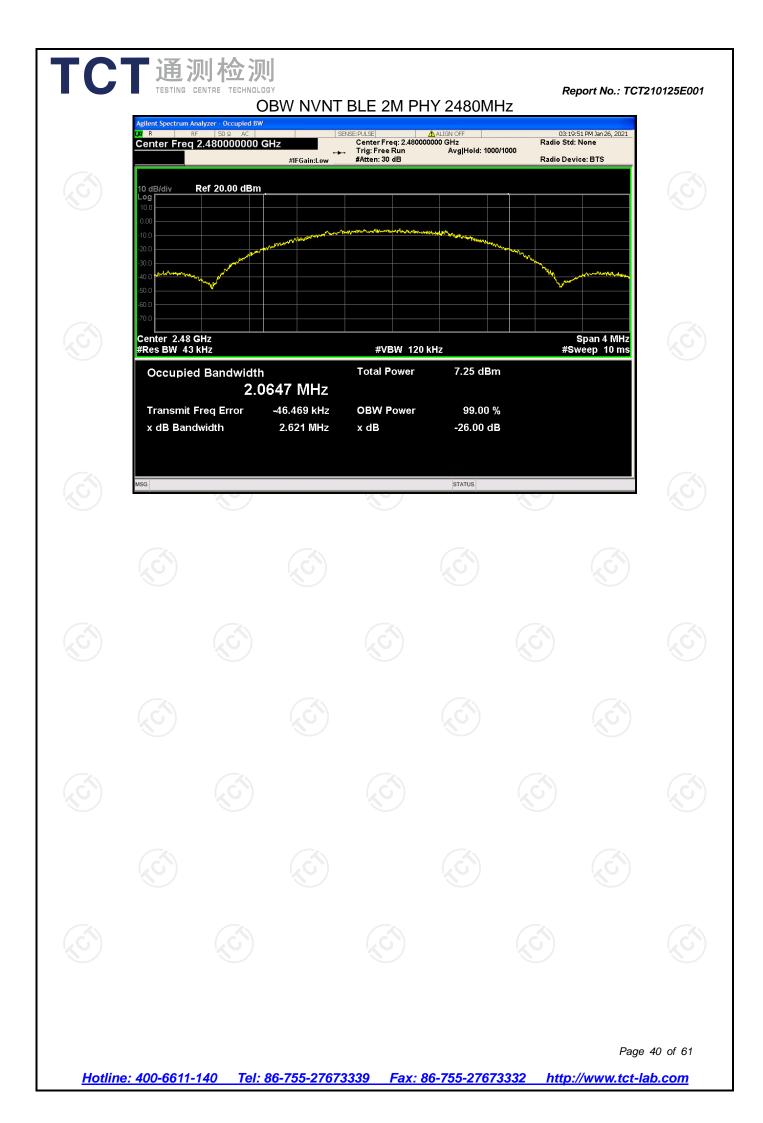
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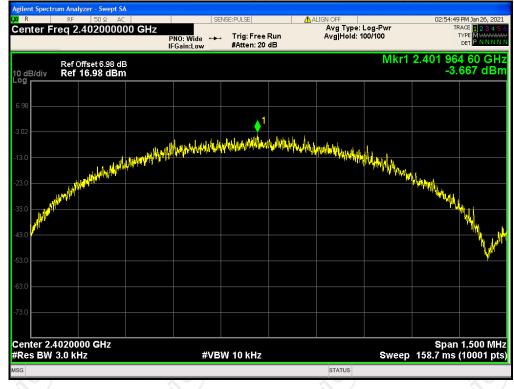




Mode	Frequency (MHz)	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M PHY	2402	-3.667	8	Pass
BLE 1M PHY	2440	-1.567	8	Pass
BLE 1M PHY	2480	-4.941	8	Pass
BLE 2M PHY	2402	-6.223	8	Pass
BLE 2M PHY	2440	-6.256	8	Pass
BLE 2M PHY	2480	-7.929	8	Pass

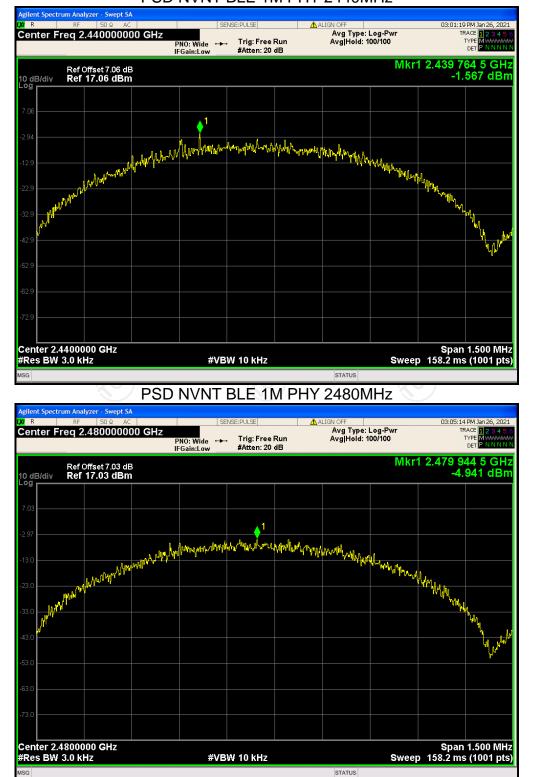
Maximum Power Spectral Density Level

PSD NVNT BLE 1M PHY 2402MHz



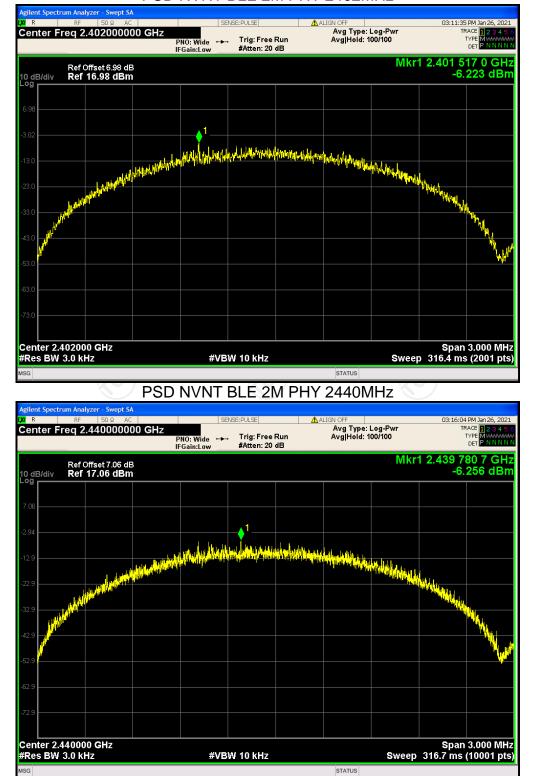
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TCT通测检测 PSD NVNT BLE 1M PHY 2440MHz

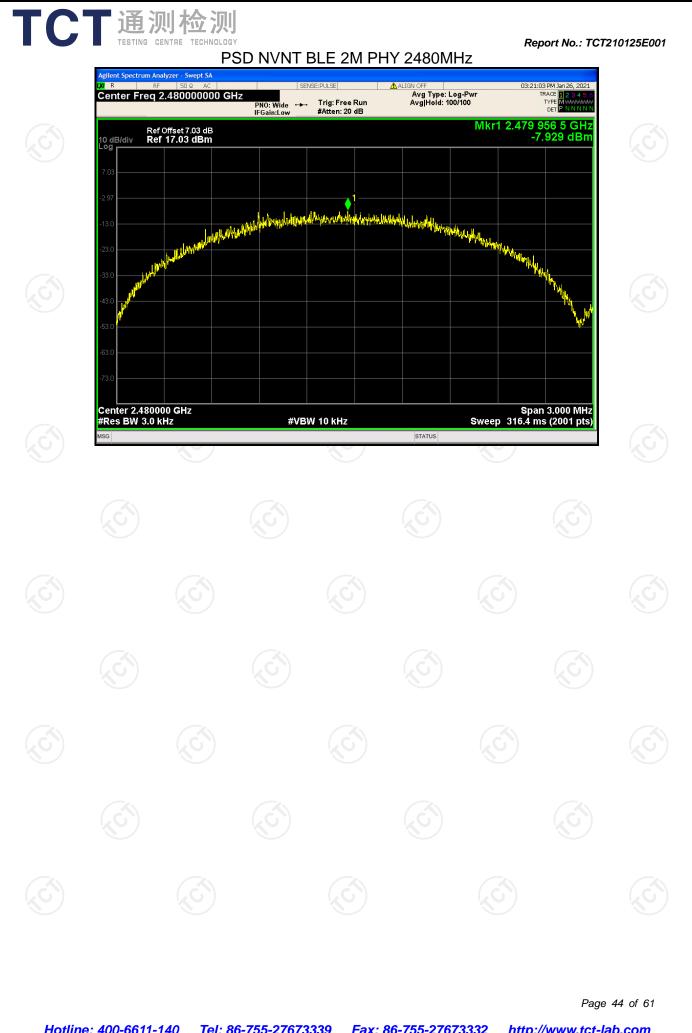


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TCT通测检测 PSD NVNT BLE 2M PHY 2402MHz



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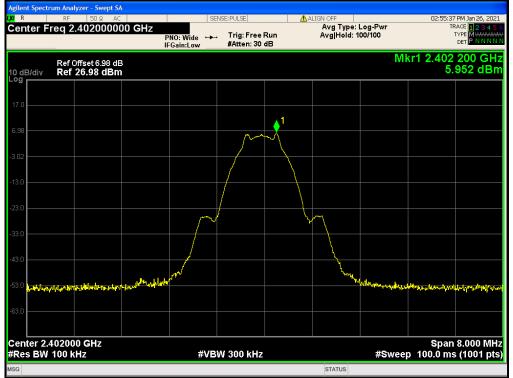


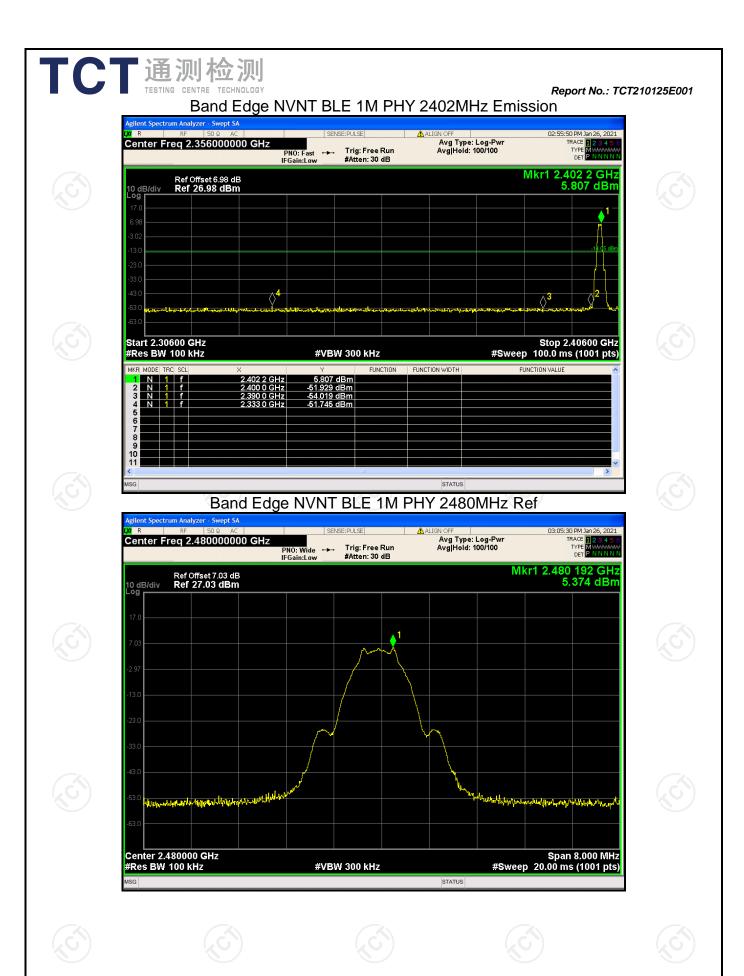


		_		
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M PHY	2402	-57.69	-20	Pass
BLE 1M PHY	2480	-58.03	-20	Pass
BLE 2M PHY	2402	-56.81	-20	Pass
BLE 2M PHY	2480	-57.72	-20	Pass

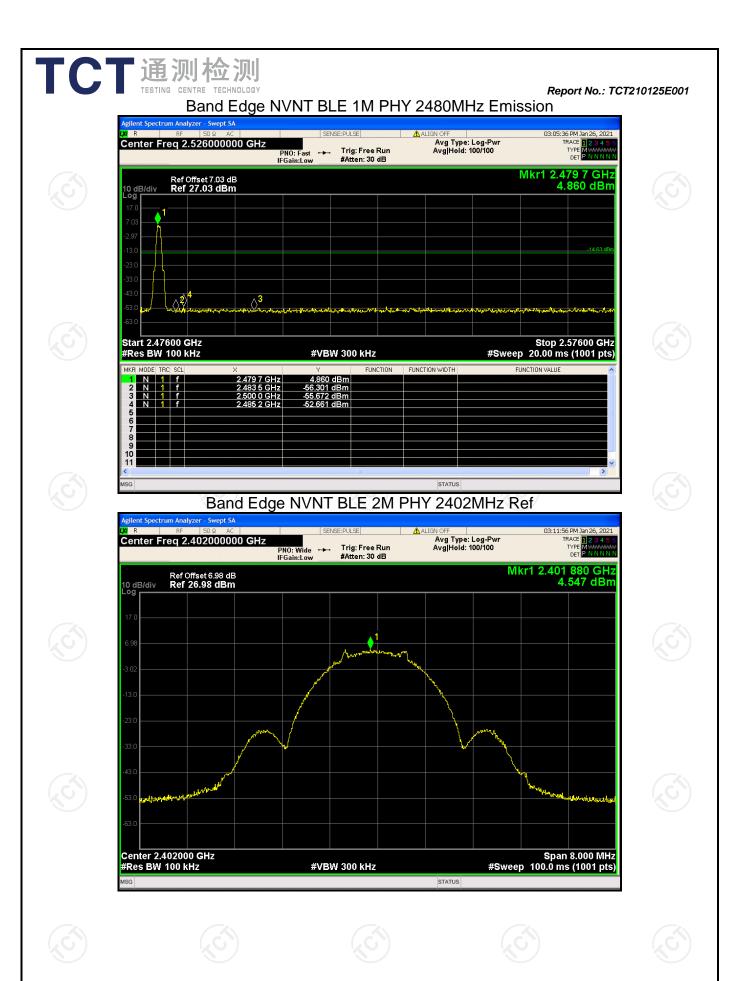
Band Edge

Band Edge NVNT BLE 1M PHY 2402MHz Ref

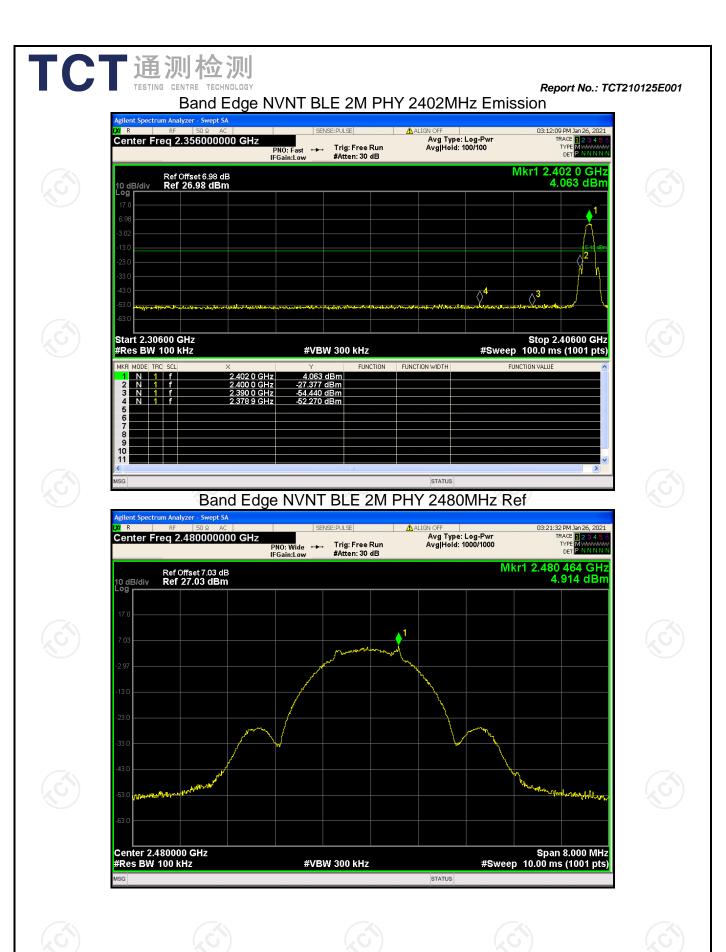




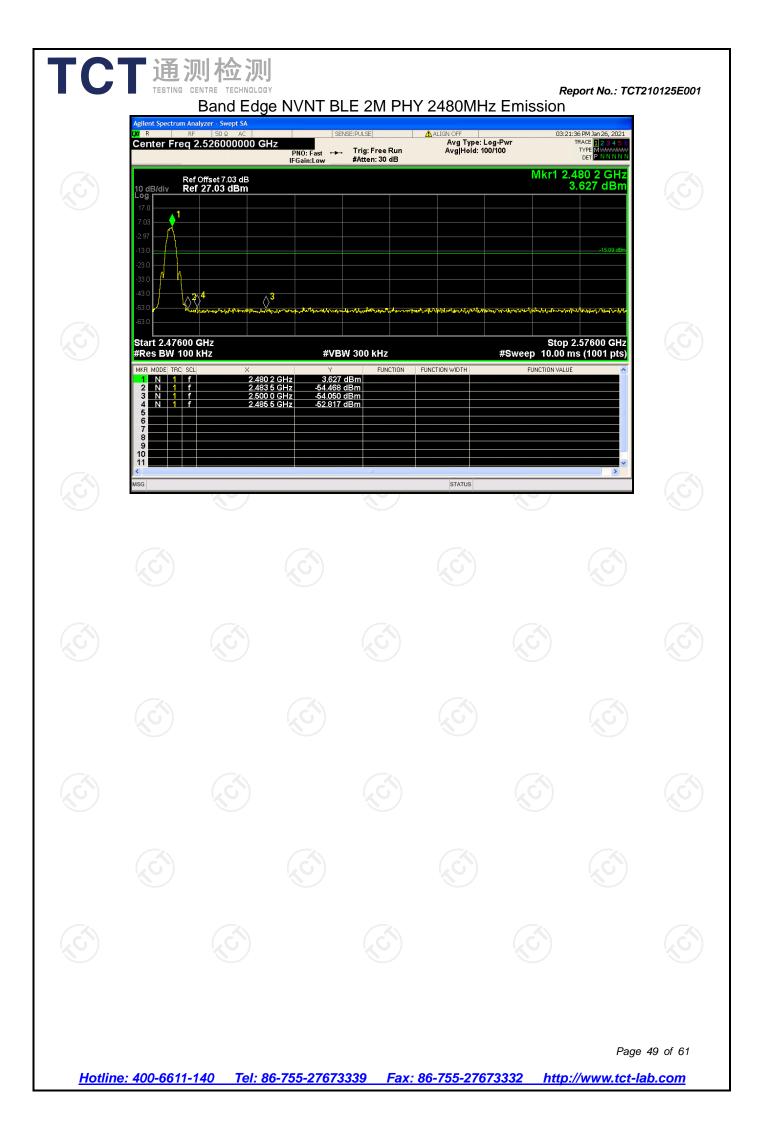
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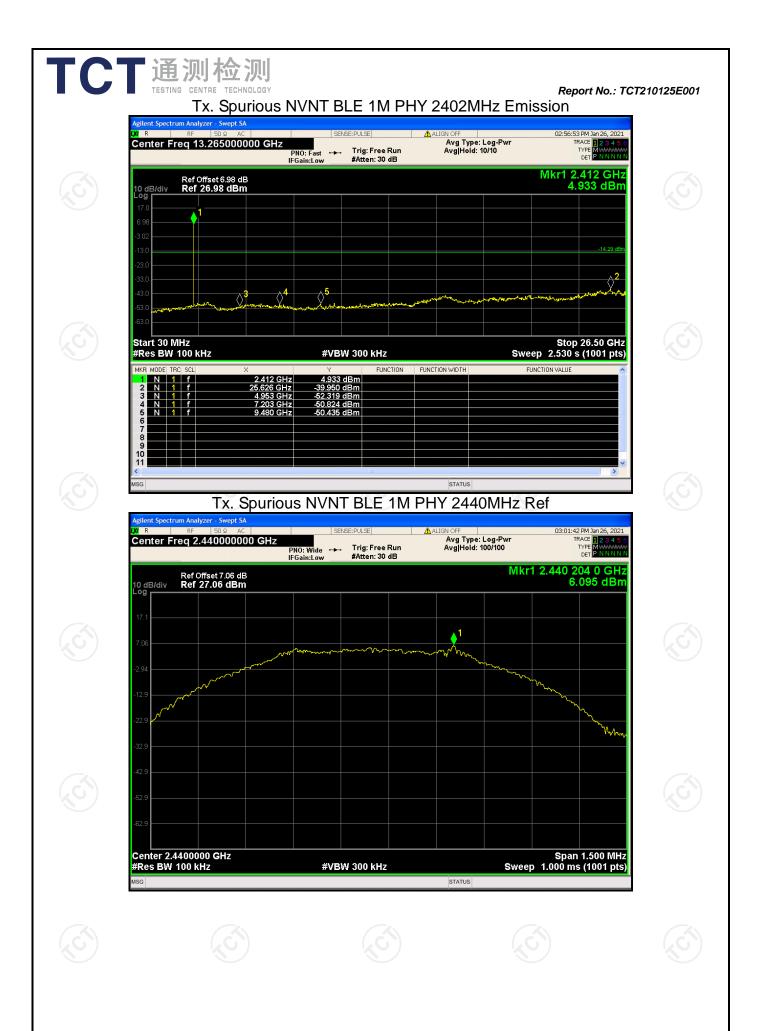
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M PHY	2402	-45.65	-20	Pass
BLE 1M PHY	2440	-45.74	-20	Pass
BLE 1M PHY	2480	-45.38	-20	Pass
BLE 2M PHY	2402	-44.48	-20	Pass
BLE 2M PHY	2440	-44.56	-20	Pass
BLE 2M PHY	2480	-44.09	-20	Pass

Conducted RF Spurious Emission

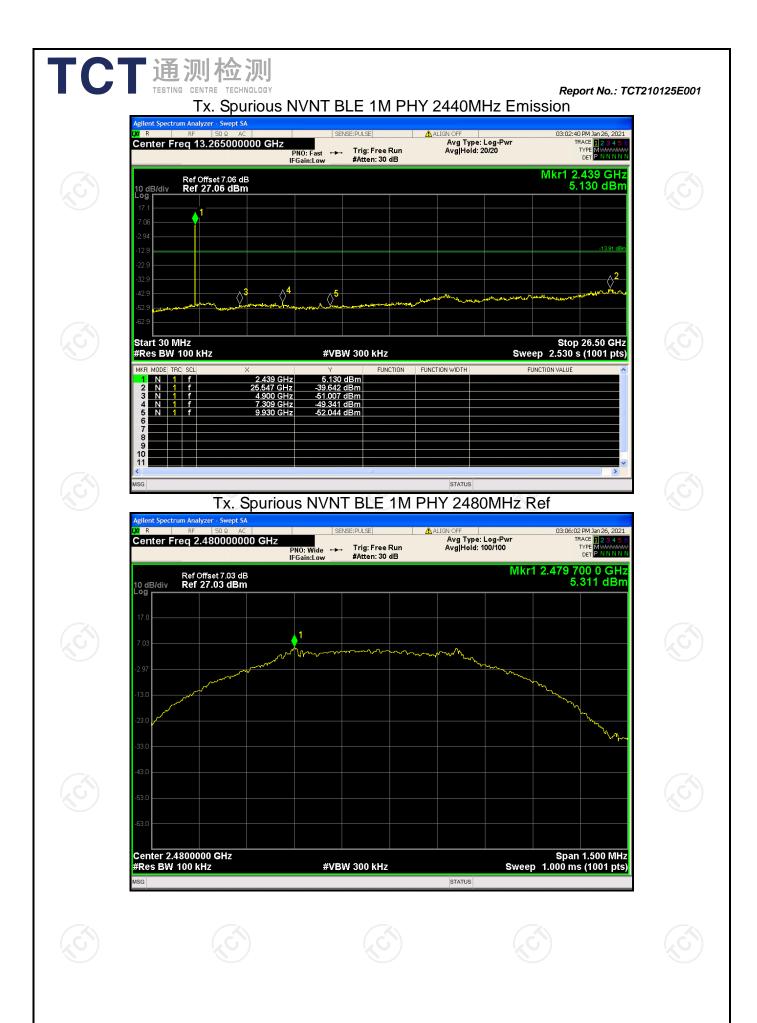
Tx. Spurious NVNT BLE 1M PHY 2402MHz Ref



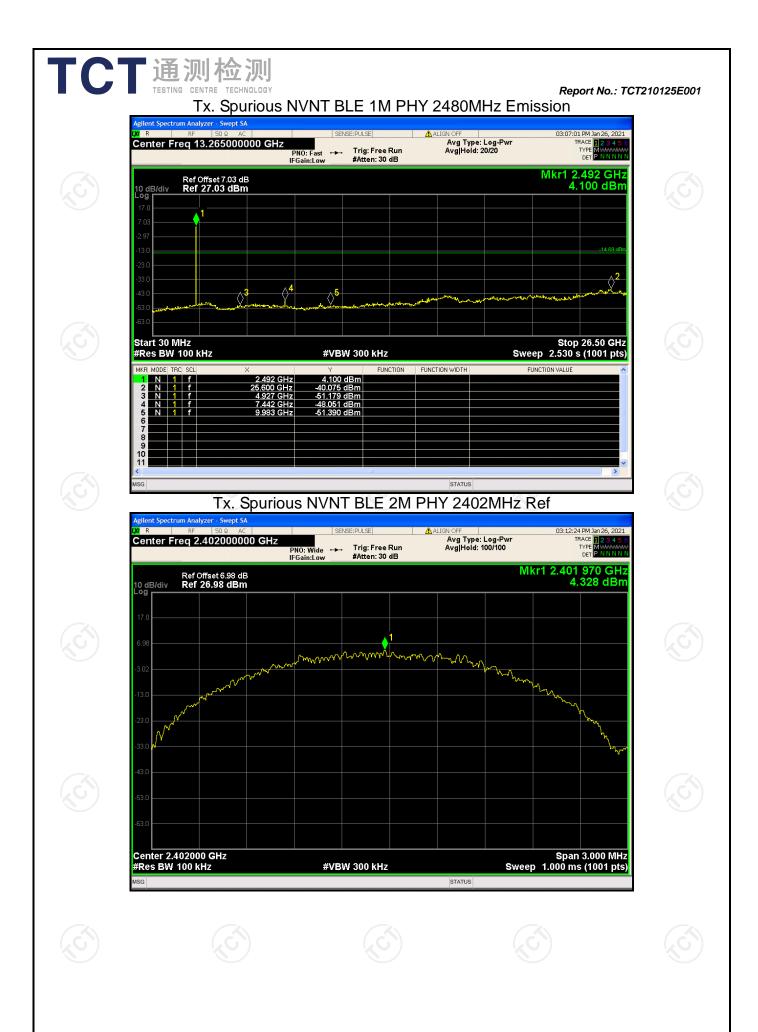
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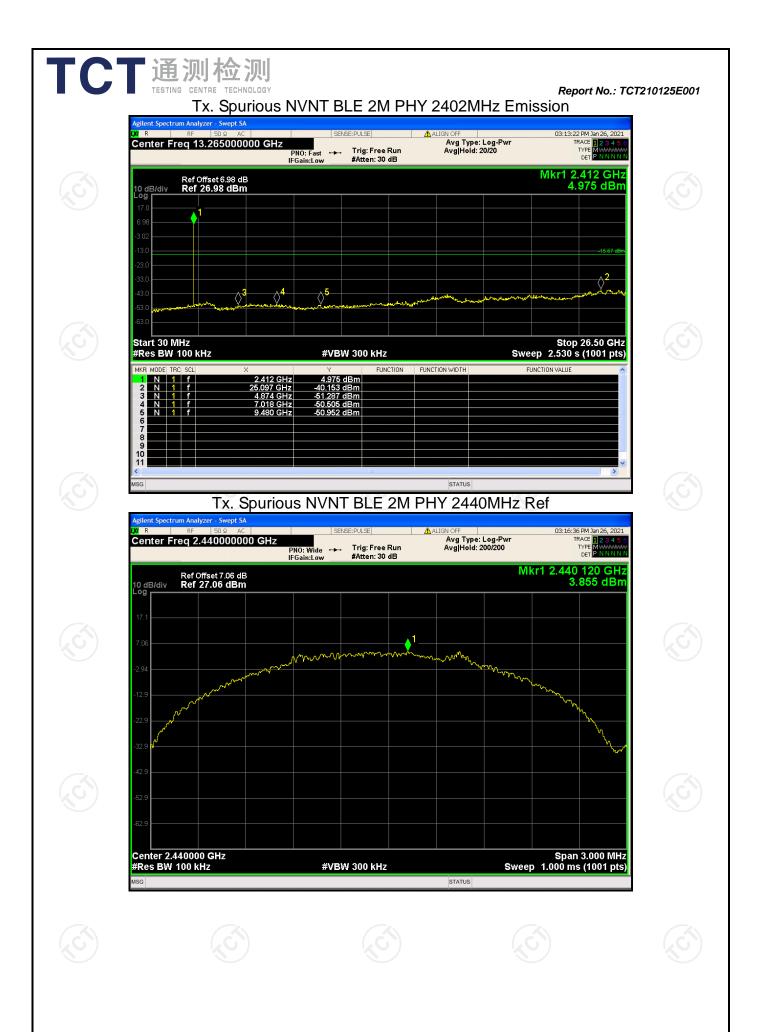
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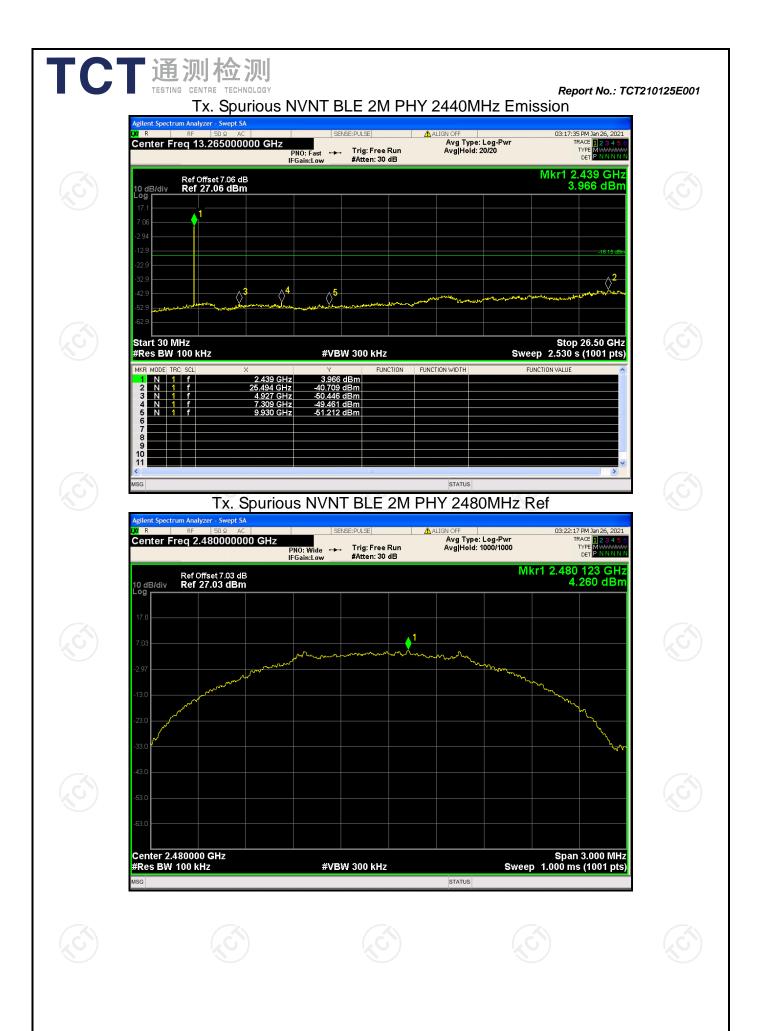
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