	と 灰リ CHNOLOGY					
	TEST REPOR	RT				
FCC ID	2AFGF-X2					
Test Report No:	TCT220323E003		$\left(\begin{array}{c} \\ \\ \\ \end{array} \right)$			
Date of issue:	Apr. 08, 2022	Apr. 08, 2022				
Testing laboratory: :	SHENZHEN TONGCE TESTIN	IG LAB				
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China					
Applicant's name:	Shen Zhen PXN Electronics Te	echnology Co., Ltd.				
Address:	Fenghuanggang Xixiang, Baoa	n, Shenzhen, China				
Manufacturer's name :	Shen Zhen PXN Electronics Technology Co., Ltd.					
Address:	Fenghuanggang Xixiang, Baoan, Shenzhen, China					
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::	TWS Game headset					
Trade Mark:	N/A					
Model/Type reference :	X2, PXN Sense Buds X2, Sens Sense Buds X1, PXN Sense B					
Rating(s):	Rechargeable Li-ion Battery D	C 3.7V	(C)			
Date of receipt of test item	Mar. 23, 2022					
Date (s) of performance of test:	Mar. 23, 2022 - Apr. 08, 2022					
Tested by (+signature) :	Brews XU	Forens Areage				
Check by (+signature) :	Beryl ZHAO	Barge 26 TCT				
Approved by (+signature):	Tomsin	Tomsin	57			
General disclaimer:	oduced except in full without th					

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1. General Product Information

1.1. EUT description

Product Name:	TWS Game headset	
Model/Type reference:	X2	
Sample Number:	TCT220323E003-0101	
Bluetooth Version:	V5.1 (This report is for BDR+EDR)	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	Chip Antenna	
Antenna Gain:	4.71dBi	$\langle \mathcal{S} \rangle$
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

No.		N	lodel No.		Tes	ted with
1			\boxtimes			
Other mod	XN Sense se Buds X			e Buds X, ise Buds X	1	
Note: X2 is tes only diffe				e identical in t the remainin		PCB layout,

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1.3. Operation Frequency

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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
G)1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
)		·		·		Ų	C
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	S						
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	- 59	2461MHz		-
Remark: modulatic	Channel 0, 3	89 & 78 ha	ave been te	sted for G	GFSK, π/4-D	QPSK, 8	DPSK

modulation mode.





2. Test Result Summary

Requirement	equirement CFR 47 Section				
Antenna Requirement	§15.203/§15.247 (c)	PASS			
AC Power Line Conducted Emission	§15.207	PASS			
Conducted Peak Output Power	§15.247 (b)(1)	PASS			
20dB Occupied Bandwidth	§15.247 (a)(1)	PASS			
Carrier Frequencies Separation	§15.247 (a)(1)	PASS			
Hopping Channel Number	§15.247 (a)(1)	PASS			
Dwell Time	§15.247 (a)(1)	PASS			
Radiated Emission	§15.205/§15.209	PASS			
Band Edge	§15.247(d)	PASS			

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:						
Condition	Conducted Emission	Radiated Emission				
Temperature:	25.0 °C	24.6 °C				
Humidity:	55 % RH	52 % RH				
Atmospheric Pressure:	1010 mbar	1010 mbar				
Test Software:						
Software Information:	AWRDLABV2					
Power Level:	0x00					
Test Mode:						
Engineering mode:	Keep the EUT in continuous channel and modulations wit	0,				
above the ground plane of 3 polarities were performed. If the EUT continuously working axis (X, Y & Z) and com- manipulating interconnecting from 1m to 4m in both worst-case(Z axis) are	8m & 1.5m for the measure on chamber. Measurements in During the test, each emission ng, investigated all operating isidered typical configuration g cables, rotating the turnta horizontal and vertical po shown in Test Results in tested, only worse case DH	n both horizontal and vertical n was maximized by: having n modes, rotated about all 3 n to obtain worst position, ble, varying antenna height larizations. The emissions 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	JD-050200	2012010907576735	/	JD	

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, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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.



4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

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

- IC Registration No.: 10668A-1
 - SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

4.2. Location

SHENZHEN TONGCE TESTING LAB

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

TEL: +86-755-27673339

4.3. Measurement Uncertainty

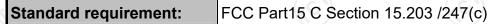
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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



5. Test Results and Measurement Data

5.1. Antenna requirement



15.203 requirement:

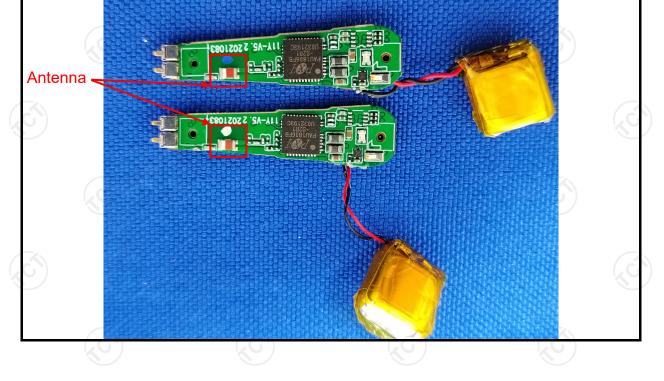
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 chip antenna which permanently attached, and the best case gain of the antenna is 4.71dBi.



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz	(C ¹)				
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 80cm Filter AC power Filter AC power Filter AC power E.U.T EMI Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Charging + Transmittir	ng Mode	2			
	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Procedure:	 2. The peripheral device power through a L coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference emission, the relative the interface cables 	ces are also conne ISN that provides with 50ohm terr diagram of the . line are checke nce. In order to fi re positions of equ must be changed	s a 50ohm/50uh nination. (Please test setup and ed for maximun nd the maximun ipment and all c l according to			
Test Procedure: Test Result:	 2. The peripheral device power through a L coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference emission, the relative the interface cables 	ces are also conne ISN that provides with 50ohm terr diagram of the . line are checke nce. In order to fi re positions of equ must be changed	s a 50ohm/50uh nination. (Please test setup and ed for maximun nd the maximun ipment and all c l according to			

5.2.2. Test Instruments

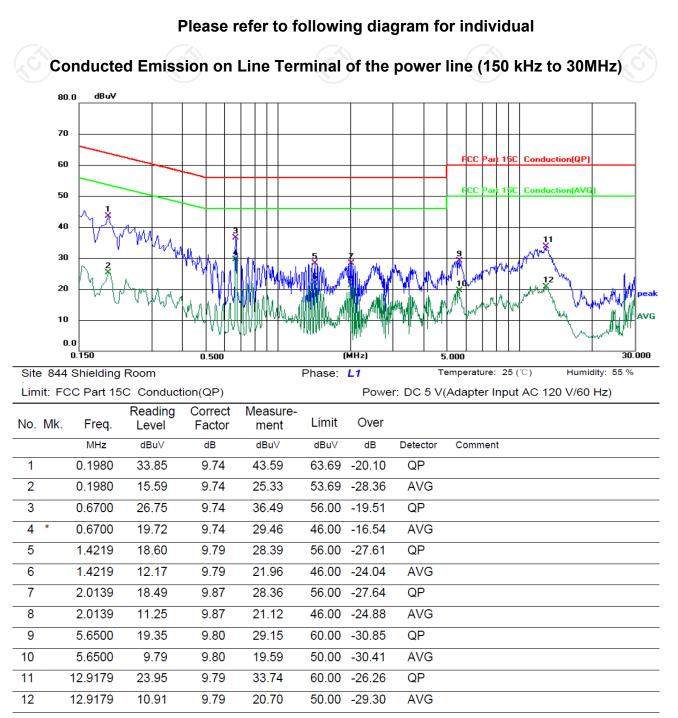
Conducted Emission Shielding Room Test Site (843)								
Equipment Manufacturer Model Serial Number Calibratio								
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022				
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck NSLK 8126		8126453	Feb. 24, 2023				
Line-5	тст	CE-05	N/A	Jul. 07, 2022				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				



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5.2.3. Test data

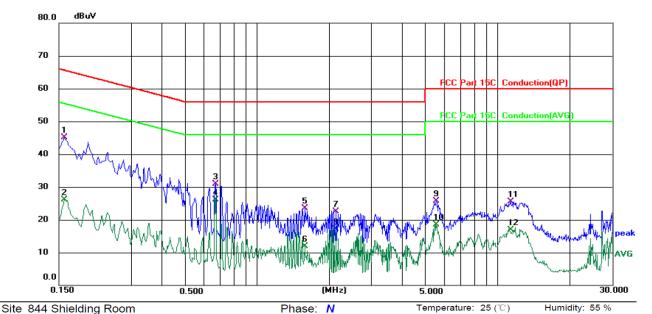
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Note:

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 $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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

Limit: FCC Part 15C Conduction(QP)

Limit: F	CC Part 1	5C Conduct	tion(QP)			Powe	er: DC 5 V((Adapter Input AC 120 V/60 Hz)
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1580	35.35	9.69	45.04	65.57	-20.53	QP	
2	0.1580	16.38	9.69	26.07	55.57	-29.50	AVG	
3	0.6740	21.15	9.74	30.89	56.00	-25.11	QP	
4 *	0.6740	16.44	9.74	26.18	46.00	-19.82	AVG	
5	1.5820	13.78	9.76	23.54	56.00	-32.46	QP	
6	1.5820	2.21	9.76	11.97	46.00	-34.03	AVG	
7	2.1339	12.83	9.77	22.60	56.00	-33.40	QP	
8	2.1339	7.24	9.77	17.01	46.00	-28.99	AVG	
9	5.5739	15.85	9.77	25.62	60.00	-34.38	QP	
10	5.5739	8.74	9.77	18.51	50.00	-31.49	AVG	
11	11.3539	15.83	9.71	25.54	60.00	-34.46	QP	
12	11.3539	7.26	9.71	16.97	50.00	-33.03	AVG	
1.00 - 20 - 1								

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 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.

Note2:

Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Lowest channel and Pi/4 DQPSK) was submitted only.



5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.				
Test Setup:	Spectrum Analyzer				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.				

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022





5.4. 20dB Occupy Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	N/A				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
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. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. 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	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022





5.5. Carrier Frequencies Separation

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS (C)

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

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5.6. Hopping Channel Number

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.		
Test Setup:			
Test Mode:	Spectrum Analyzer Eur Hopping mode		
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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 		
Test Result:	PASS		
5 6 2 Toot Instrumente			

5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022
(G)	(G)		.c`\	(G)

5.7. Dwell Time

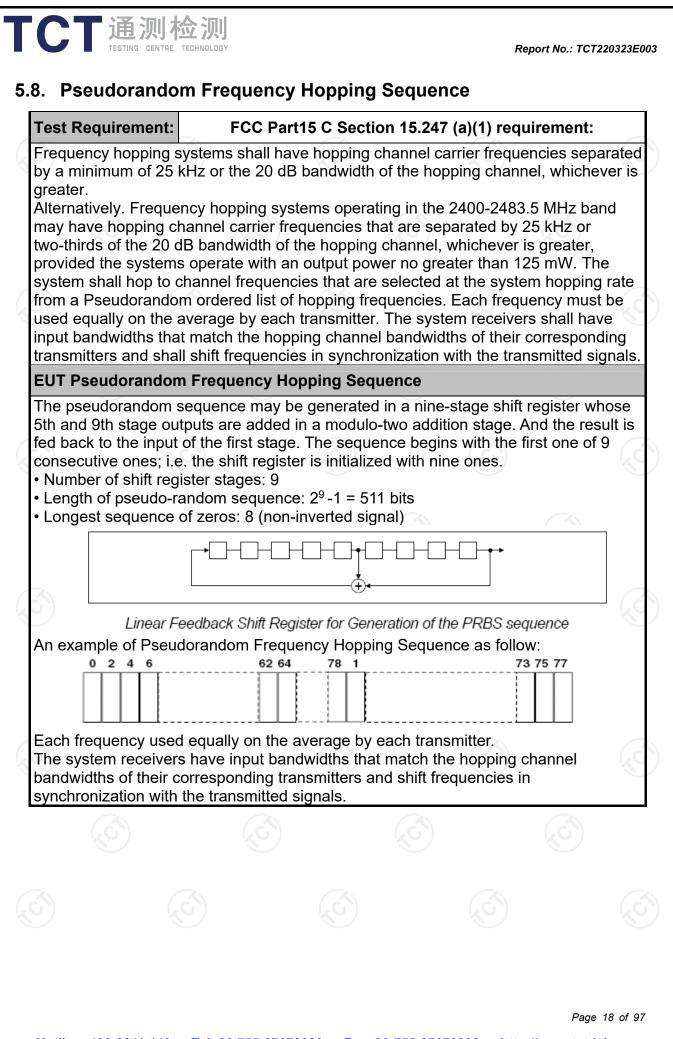
5.7.1. Test Specification

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Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test Result:	PASS

5.7.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022





5.9. Conducted Band Edge Measurement

5.9.1. Test Specification

FCC Part15 C Section 15.247 (d)
KDB 558074 D01 v05r02
In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Spectrum Analyzer EUT
Transmitting mode with modulation
 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
PASS

5.9.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022
(\mathcal{G})	(\mathcal{G})		, G`)	(\mathcal{G})



5.10. Conducted Spurious Emission Measurement

5.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
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 = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

5.10.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

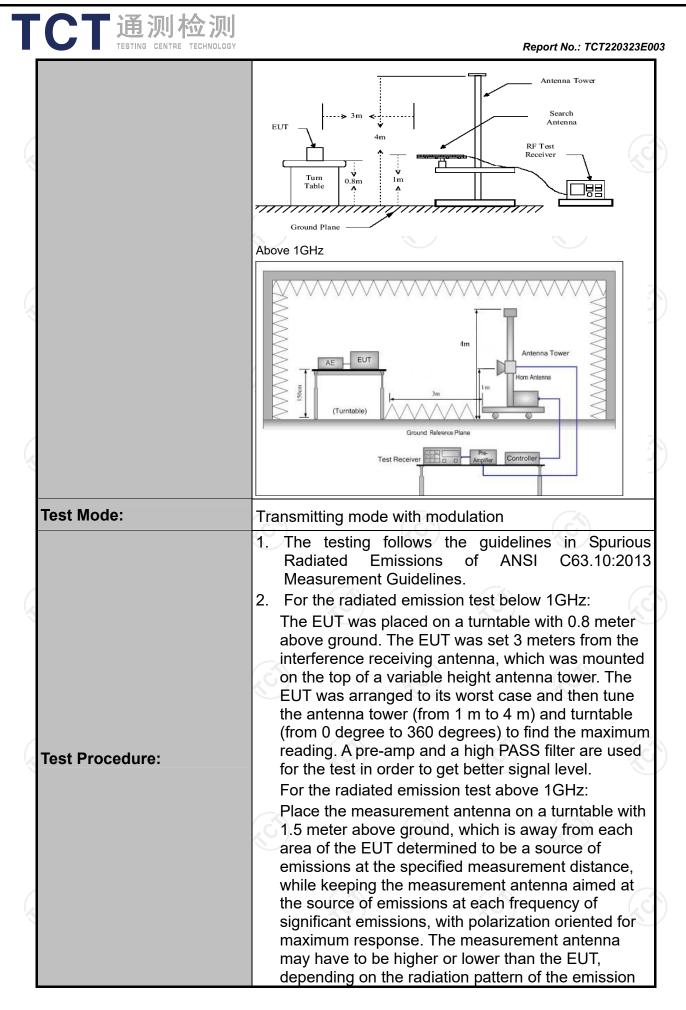
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5.11.1. Test Specification

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Test Requirement:	FCC Part15	C Section	n 15.209	S S		1
Test Method:	ANSI C63.10	0:2013				
Frequency Range:	9 kHz to 25 (GHz			C	
Measurement Distance:	3 m				R	
Antenna Polarization:	Horizontal &	Vertical				
	Frequency	Detector	RBW	VBW		Remark
	9kHz- 150kHz	Quasi-pea		1kHz		i-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-pea	ık 9kHz	30kHz	Quas	i-peak Value
	30MHz-1GHz			300KHz		i-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
		Peak	1MHz	10Hz	Ave	rage Value
	Frequen		Field Str	-		asurement
			(microvolts		Distar	nce (meters)
	0.009-0.4		2400/F(300
	0.490-1.7		24000/F	(KHZ)		30
	1.705-3		30	1		30 3
	88-216		150			3
Limit:	216-96		200		K	3
	Above 9		500			3
	Frequency		eld Strength rovolts/meter)	Measure Distan (meter	nce Detector ers)	
	Above 1GHz	<u>z</u>	500 5000	3		
Test setup:	For radiated emis	stance = 3m	v 30MHz		Comput	
			(,	C)		



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	receiving the maximum measurement antenni maximizes the emission antenna elevation for restricted to a range above the ground or 3. Set to the maximum EUT transmit continu 4. Use the following spe (1) Span shall wide emission being r (2) Set RBW=120 k for f>1GHz ; VBN Sweep = auto; = max hold for (3) For average me correction facto	ha elevation shall be that which sions. The measurement r maximum emissions shall be of heights of from 1 m to 4 m reference ground plane. In power setting and enable the uously. Detectrum analyzer settings: enough to fully capture the measured; Hz for f < 1 GHz, RBW=1MHz W≥RBW; Detector function = peak; Trace peak easurement: use duty cycle
	On time =N1*L1 Where N1 is nu length of type 1 Average Emiss Level + 20*log(Corrected Readi	+N2*L2++Nn-1*LNn-1+Nn*Li umber of type 1 pulses, L1 is I pulses, etc. ion Level = Peak Emission Duty cycle) ing: Antenna Factor + Cable
Test results:	On time =N1*L1 Where N1 is nu length of type 1 Average Emiss Level + 20*log(Corrected Readi	+N2*L2++Nn-1*LNn-1+Nn*Lu umber of type 1 pulses, L1 is I pulses, etc. ion Level = Peak Emission Duty cycle)
Test results:	On time =N1*L1 Where N1 is nu length of type 1 Average Emiss Level + 20*log(Corrected Readi Loss + Read Lev	+N2*L2++Nn-1*LNn-1+Nn*Lu umber of type 1 pulses, L1 is I pulses, etc. ion Level = Peak Emission Duty cycle) ing: Antenna Factor + Cable
Test results:	On time =N1*L1 Where N1 is nu length of type 1 Average Emiss Level + 20*log(Corrected Readi Loss + Read Lev	+N2*L2++Nn-1*LNn-1+Nn*Li umber of type 1 pulses, L1 is I pulses, etc. ion Level = Peak Emission Duty cycle) ing: Antenna Factor + Cable
Test results:	On time =N1*L1 Where N1 is nu length of type 1 Average Emiss Level + 20*log(Corrected Readi Loss + Read Lev	+N2*L2++Nn-1*LNn-1+Nn*L umber of type 1 pulses, L1 is I pulses, etc. ion Level = Peak Emission Duty cycle) ing: Antenna Factor + Cable



5.11.2. Test Instruments

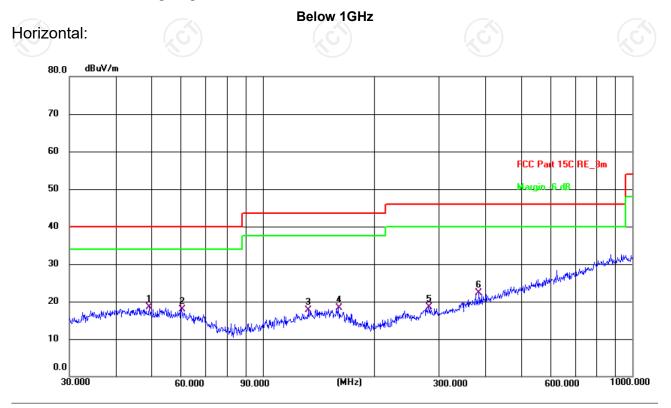
	Radiated Em	nission Test Site	966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A
)	

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TCT通测检测 TESTING CENTRE TECHNOLOGY

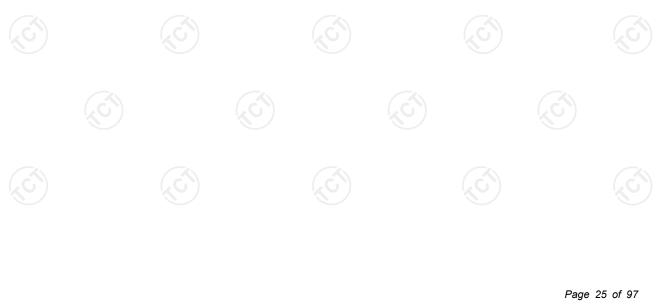
Please refer to following diagram for individual

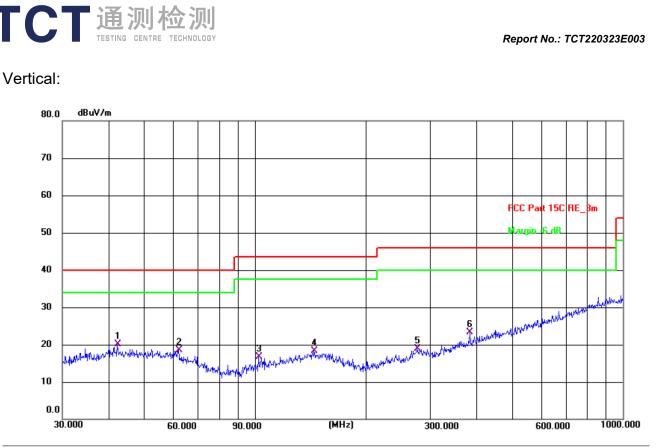


Site #2 3m Anechoic Chamber Limit: FCC Part 15C RE 3m Polarization: *Horizontal* Power: DC 3.7 V Temperature: 24.6(C) Humidity: 52 %

Report No.: TCT220323E003

		_							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	49.3594	4.62	13.80	18.42	40.00	-21.58	QP	Р	
2	60.2801	4.93	13.07	18.00	40.00	-22.00	QP	Р	
3	132.6850	4.94	12.78	17.72	43.50	-25.78	QP	Р	
4	160.3456	4.93	13.38	18.31	43.50	-25.19	QP	Р	
5	281.0075	4.47	14.12	18.59	46.00	-27.41	QP	Р	
6	383.9318	5.57	16.67	22.24	46.00	-23.76	QP	Ρ	





Site #	#2 3m Anecho	er			Temperature: 24	.6(C)	Humidity: 52 %				
Limit:	FCC Part 15	C 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 *	42.3022	6.17	13.97	20.14	40.00	-19.86	QP	Ρ			
2	2 61.9951 5.72 12.72				40.00	-21.56	QP	Р			
3	102.3597	6.02	10.60	16.62	43.50	-26.88	QP	Р			
4	144.8418	5.08	13.28	18.36	43.50	-25.14	QP	Р			
5	276.1235	5.17	13.83 19.00 46.00 -27.00					Ρ			
6	383.9318 6.70 16.67 23.37 46.00 -22.63 QP										

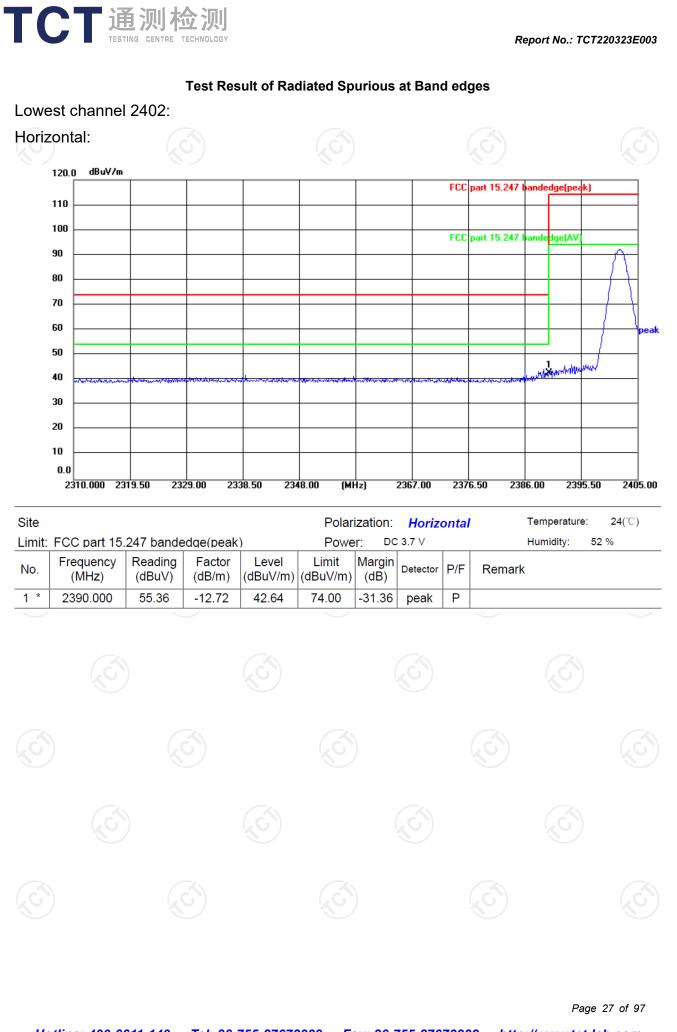
Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and Pi/4 DQPSK) 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* (*dBµV/m*) = *Limit* stated in standard
 - Over (dB) = Measurement (dB μ V/m) Limits (dB μ V/m)

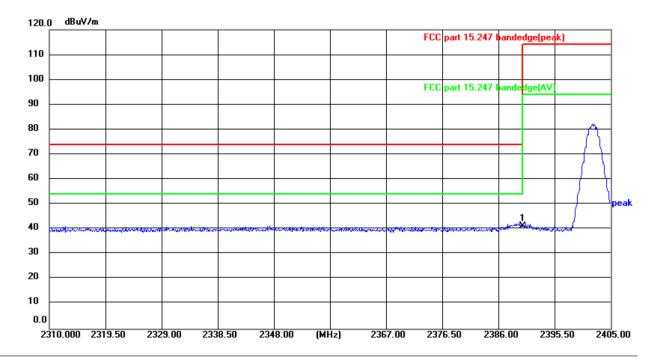
* is meaning the worst frequency has been tested in the test frequency range.

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Vertical:

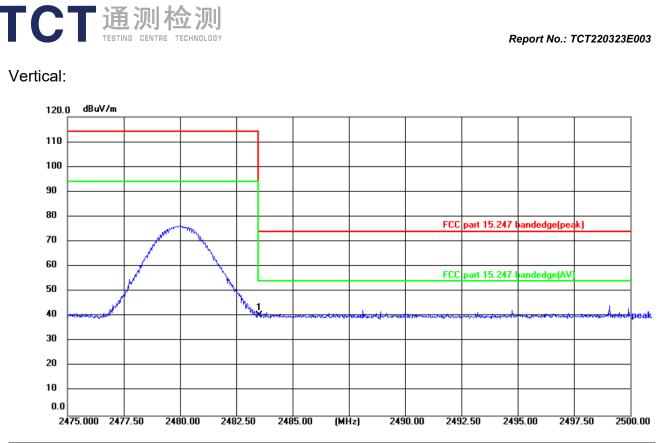
TCT通测检测 TESTING CENTRE TECHNOLOGY



Site					Polari	zation:	Vertic	al	Temperature: 24(℃)
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Humidity: 52 %									
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	53.99	-12.72	41.27	74.00	-32.73	peak	Ρ	



	120.0 dBuV/m	1	1							1		
	110											
	100											
	80		North Contraction of the second secon									
	70							FCC	part 15.247	bandedge(pea	ak)	
	60	/		<u>N</u>				FCC	part 15.247	bandedge(AV		
	50 40			- X	warbarde	al des al la casa	uhitebe son a					
	30											(2 2)
	20											
	10 0.0											
e hit [.]	ECC part 15	247 hande	dae(neak	1	Powe	r DC	:37V			Humidity:	52 %	
nit:).	FCC part 15. Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	(dBuV/m)	Margin (dB)	23.7 ∨ Detector		Remark	Humidity:	52 %	
nit:	Frequency	Reading	Factor	Level	Limit	Margin		P/F P	Remark		52 %	
nit:).	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		Remark		52 %	
nit:).	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		Remark		52 %	
nit:	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		Remark		52 %	



Site					Polari	zation:	Vertic	Temperature: 24(℃)	
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V									Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	2483.500	52.66	-12.32	40.34	74.00	-33.66	peak	Ρ	

Note: Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Pi/4 DQPSK) was submitted only.

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Above 1GHz

Modulation	Type: 8D	PSK							
Low chann	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	45.12		0.66	45.78		74	54	-8.22
7206	Н	35.74		9.50	45.24		74	54	-8.76
	Н								
	(\mathbf{G})		J.J)	()	.G`)		(C)	
4804	V	44.63		0.66	45.29		74	54	-8.71
7206	V	36.38		9.50	45.88		74	54	-8.12
	V								

Mid	dle cha	nnel: 2441	MHz		X)				
Fre (۱	quency 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)
2	4882	H	45.25		0.99	46.24		74	54	-7.76
7	7323	ζĊĤ	36.55	1.0	9.87	46.42	01	74	54	-7.58
		Ĥ								
								-		
	4882	V	44.46		0.99	45.45		74	54	-8.55
7	7323	V	35.89		9.87	45.76		74	54	-8.24
	/	V			\	/		<u> </u>		

High channel: 2480 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)			
4960	Н	46.01		1.33	47.34		74	54	-6.66			
7440	Н	36.77		10.22	46.99		74	54	-7.01			
	Н				Z							
())		(.G)		(.0			(\mathbf{G})		(.c			
4960	V	46.17		1.33	47.50		74	54	-6.50			
7440	V	36.82		10.22	47.04		74	54	-6.96			
	V											

Note:

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

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

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. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.

7. 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	1-DH1	2402	-4.46	30	Pass						
NVNT	1-DH1	2441	-4.04	30	Pass						
NVNT	1-DH1	2480	-5.06	30	Pass						
NVNT	2-DH1	2402	0.49	21	Pass						
NVNT	2-DH1	2441	-2.05	21	Pass						
NVNT 🔇	2-DH1	2480	-3.25	21	Pass						
NVNT	3-DH1	2402	-5.69	21	Pass						
NVNT	3-DH1	2441	-7.98	21	Pass						
NVNT	3-DH1	2480	-10.76	21	Pass						
KU)		KU)	KU)		KO/						













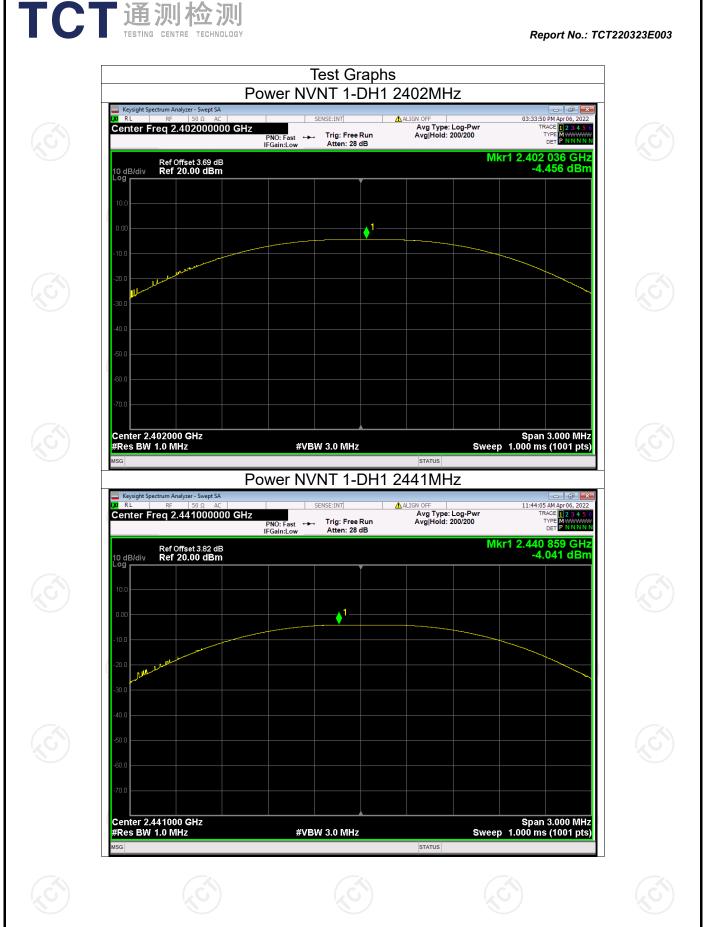




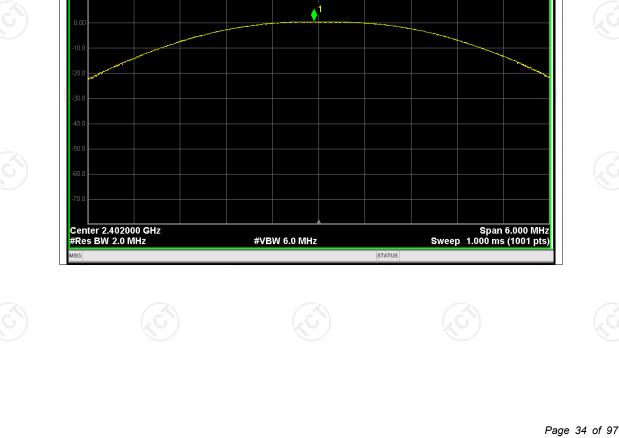


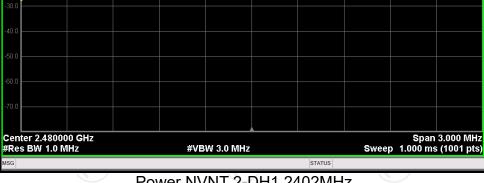


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Power NVNT 1-DH1 2480MHz

PNO: Fast ---- Trig: Free Run IFGain:Low Atten: 28 dB

ALIGN

♦¹

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

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

Power NVNT 2-DH1 2402MHz

PNO: Fast ---- Trig: Free Run IFGain:Low Atten: 28 dB

Report No.: TCT220323E003

11:45:43 AM Apr 06, 2022 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

11:54:30 AM Apr06, 2022 TRACE 1 2 3 4 5 6 TYPE M

Mkr1 2.401 940 GHz 0.493 dBm

Mkr1 2.480 171 GHz -5.060 dBm

Keysight Spectrum Analyzer - Swept SA

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 3.69 dB Ref 20.00 dBm

KI RL

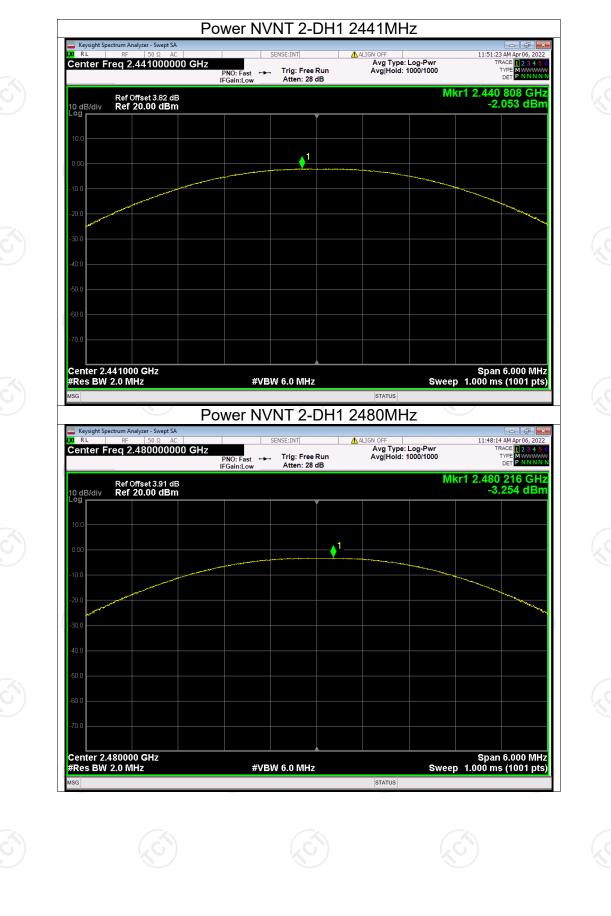
10 dB/div Log

Center Freq 2.480000000 GHz

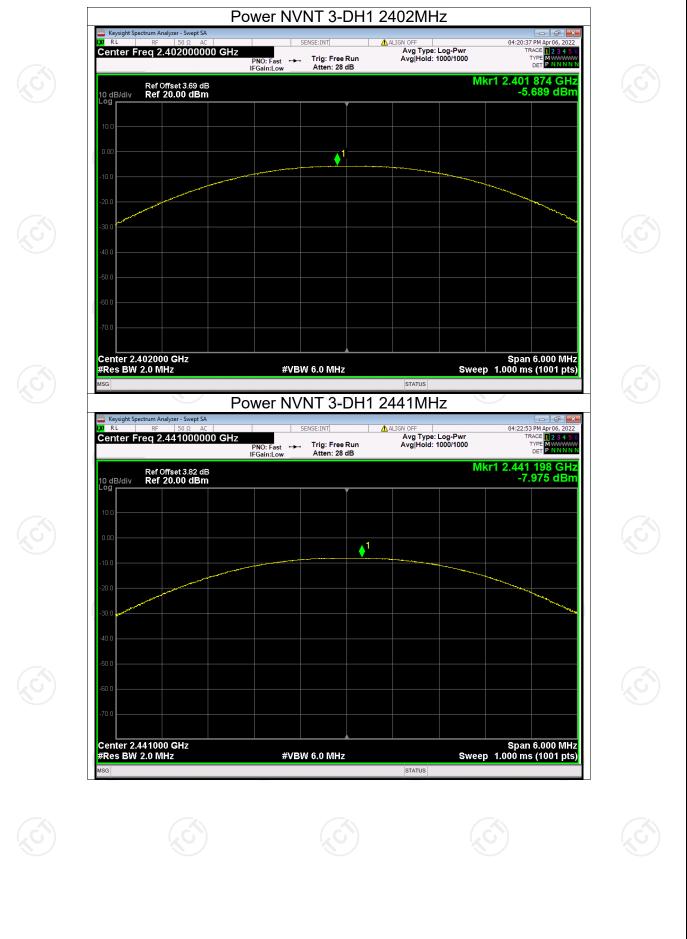
Ref Offset 3.91 dB Ref 20.00 dBm

KI RL

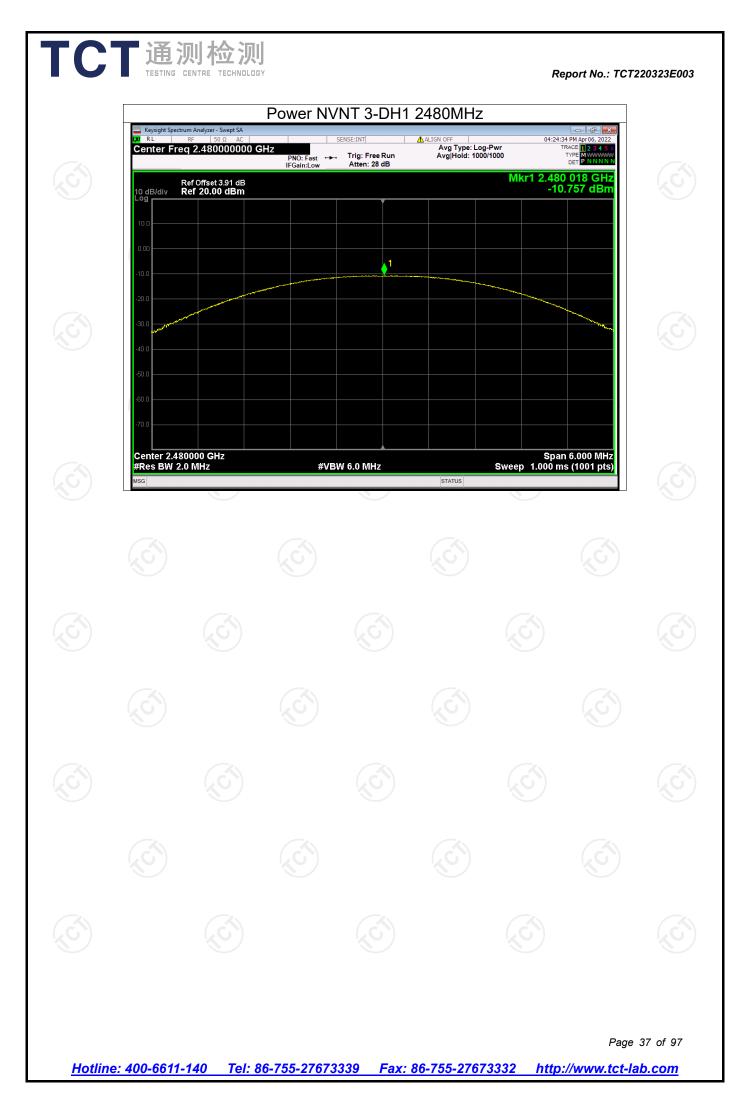
10 dB/div Log

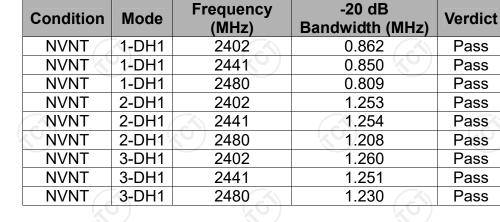


Report No.: TCT220323E003



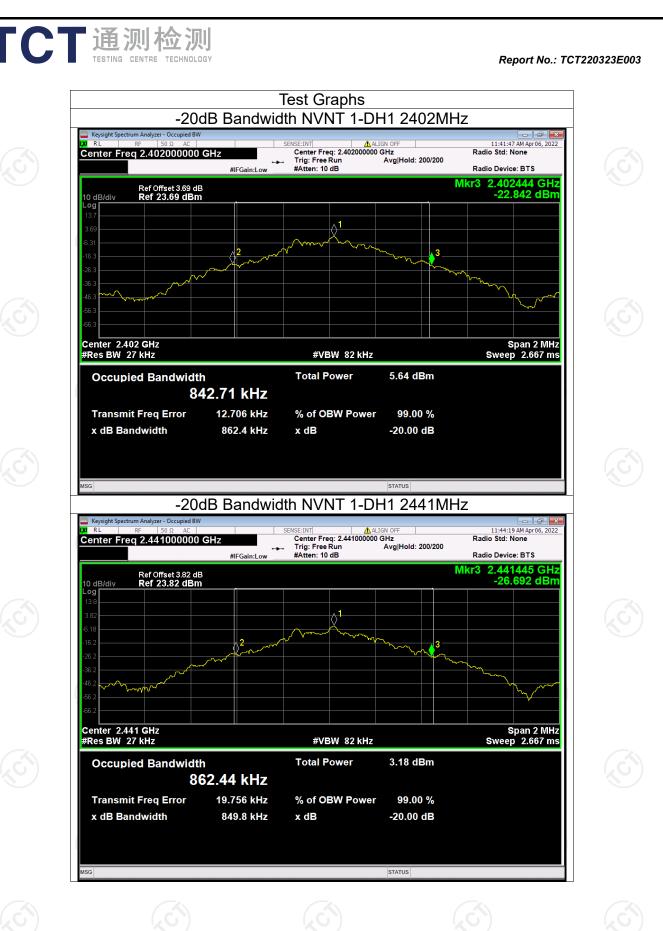
Report No.: TCT220323E003



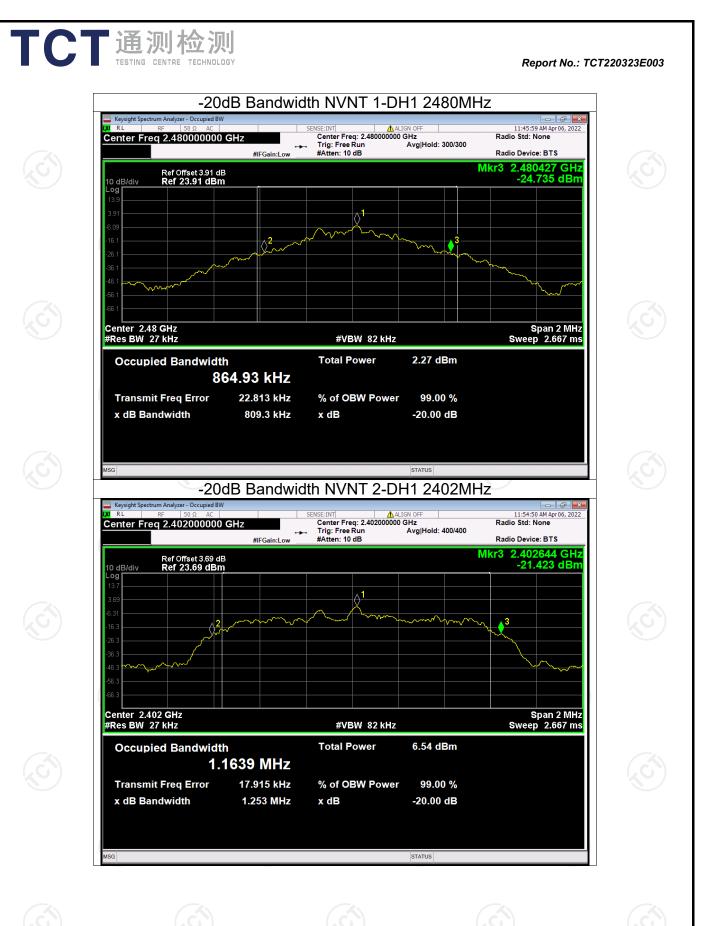


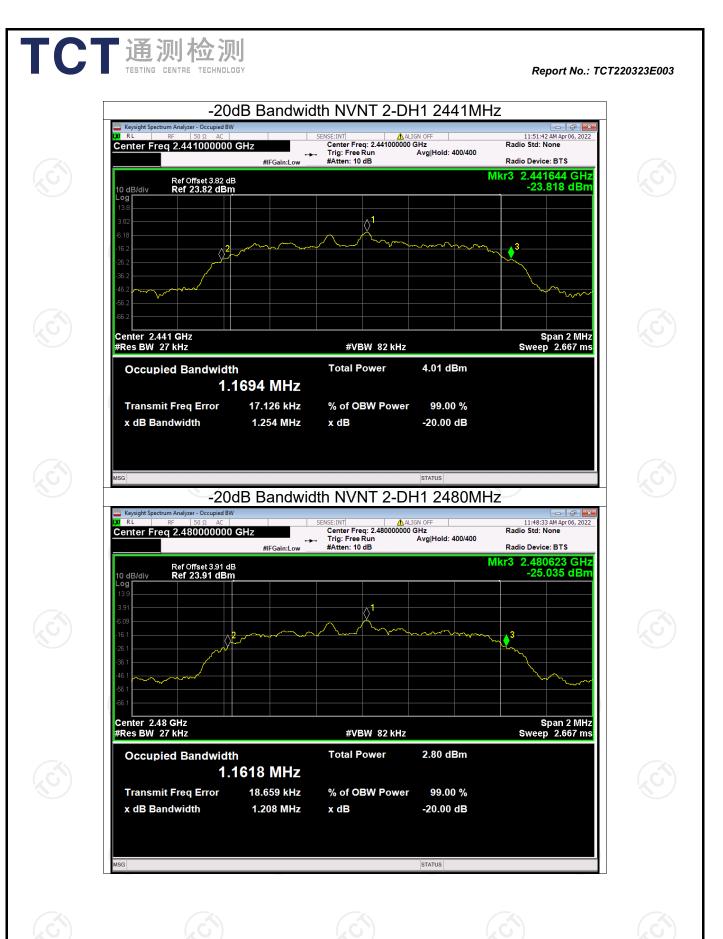
-20dB Bandwidth

Page	38	of	97
· ~ 9 •	••	•	• •

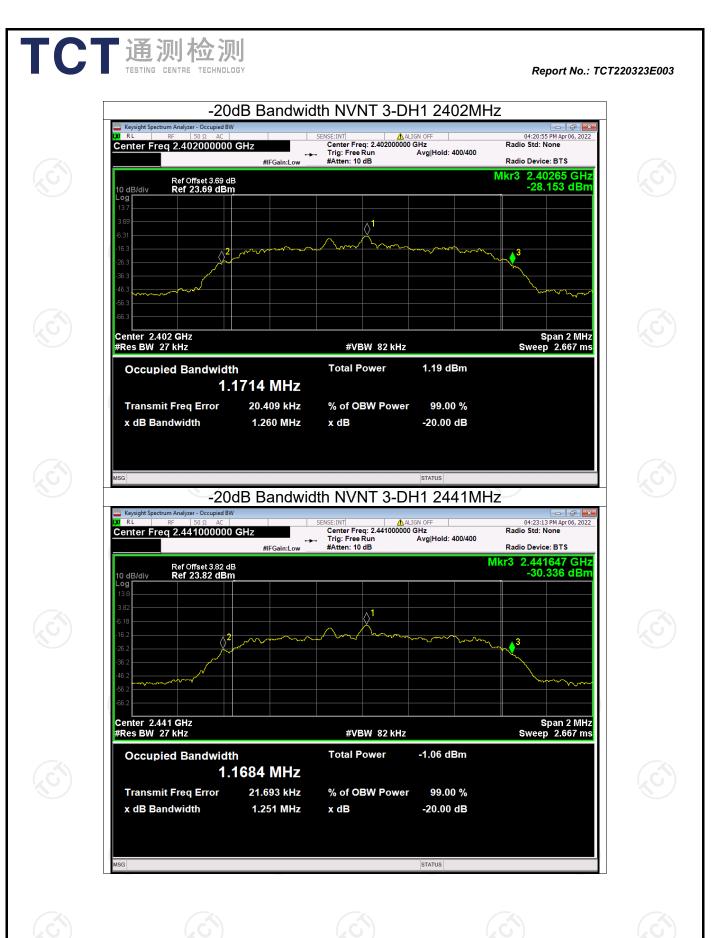


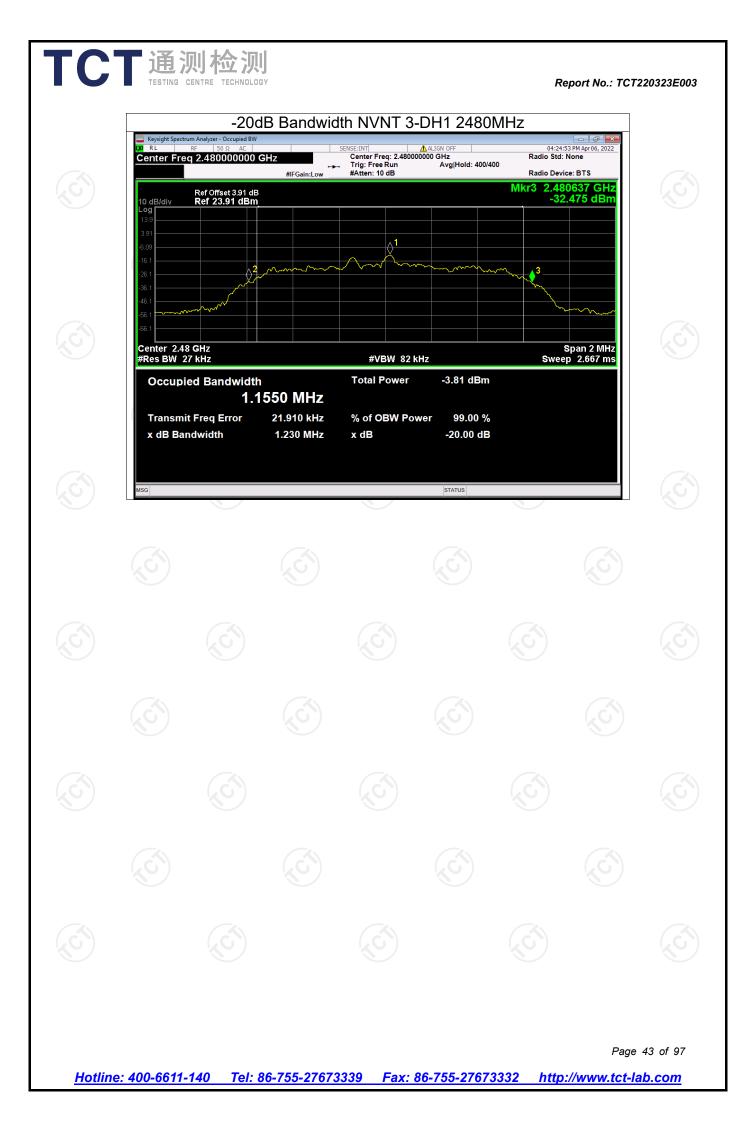
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Report	No.:	TCT220323E003
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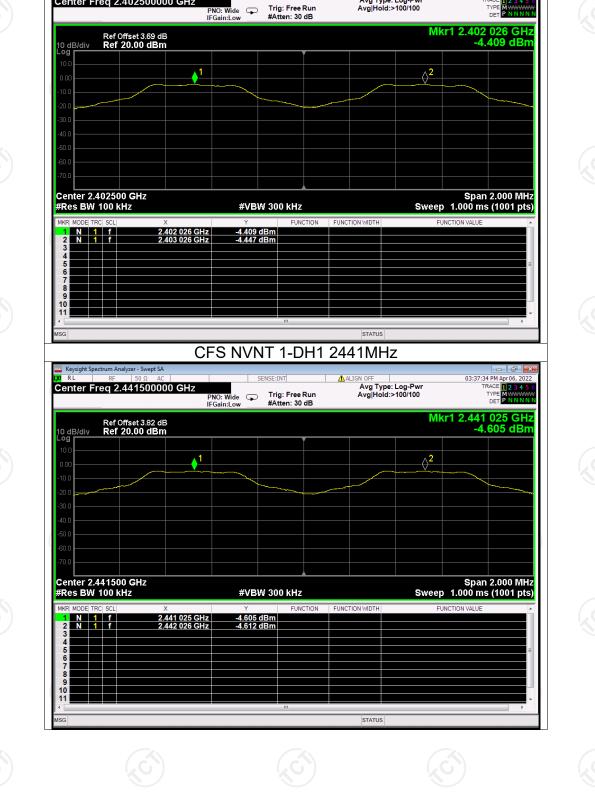
		Gainorra	queneres ocparat			
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2402.026	2403.026	1	0.862	Pass
NVNT	1-DH1	2441.025	2442.026	1.001	0.862	Pass
NVNT	1-DH1	2479.025	2480.026	1.001	0.862	Pass
NVNT	2-DH1	2401.862	2402.860	0.998	0.836	Pass
NVNT	2-DH1	2440.862	2441.860	0.998	0.836	Pass
NVNT 🖔	2-DH1	2479.020	2480.020	1	0.836	Pass
NVNT	3-DH1	2401.860	2402.862	1.002	0.840	Pass
NVNT	3-DH1	2440.862	2441.860	0.998	0.840	Pass
NVNT	3-DH1	2478.864	2479.862	0.998	0.840	Pass
KU /		KU /	ku)			KO)

Carrier Frequencies Separation

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Test Graphs CFS NVNT 1-DH1 2402MHz

ALIGN

Avg Type: Log-Pwr Avg|Hold:>100/100

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.402500000 GHz

03:36:52 PM Apr 06, 2022

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

Report No.: TCT220323E003

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10 11 CFS NVNT 2-DH1 2402MHz Keysight Spectrum Analyzer - Swept SA 04:17:43 PM Apr Avg Type: Log-Pw Avg|Hold:>100/100

CFS NVNT 1-DH1 2480MHz

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

ALIGN O

Avg Type: Log-Pwr Avg|Hold:>100/100

∂²



p

KI RL

10 d Log

ā

🔤 Keysight Spectrum Analyzer - Swept S

Center Freg 2.479500000 GHz

Ref Offset 3.91 dB Ref 20.00 dBm

Report No.: TCT220323E003

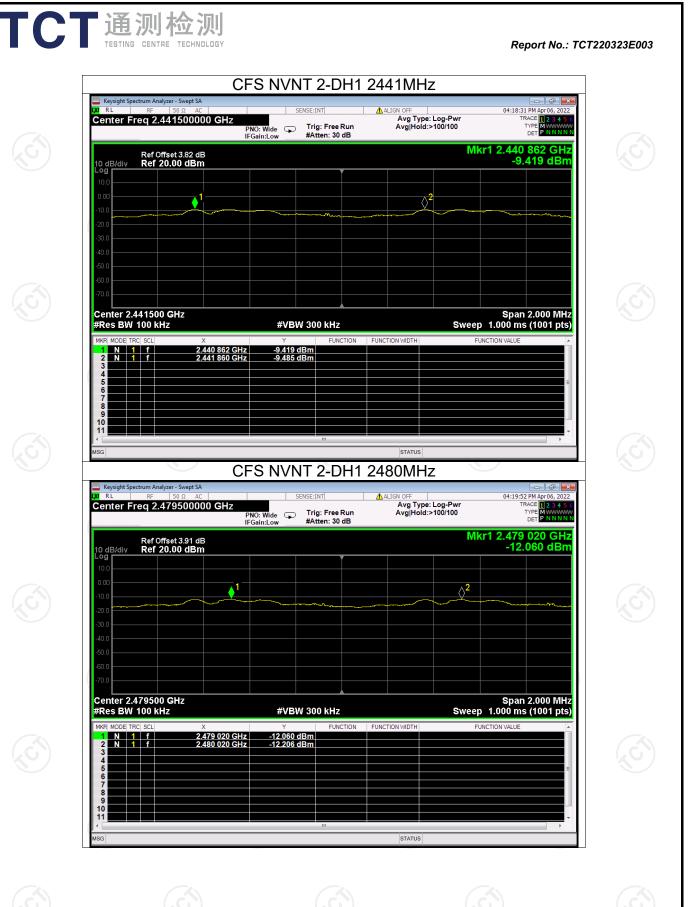
03:38:17 PM Apr 06, 20 TRACE 1 2 3 4 TYPE MWWW DET P N N N

TYPE DET

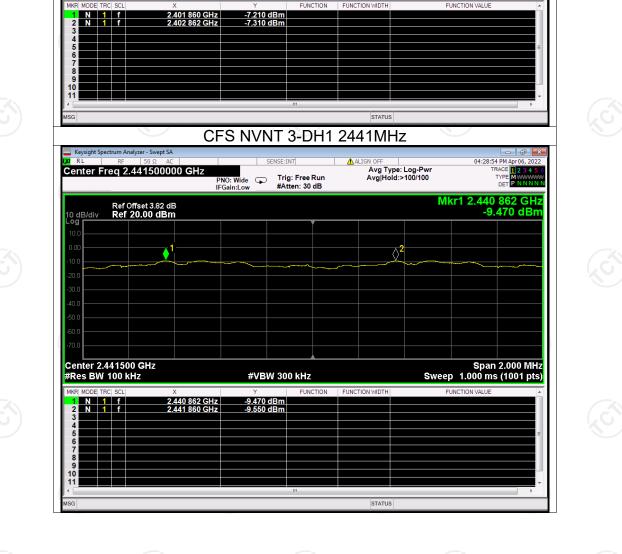
Mkr1 2.479 025 GHz -4.452 dBm

Span 2.000 MHz Sweep 1.000 ms (1001 pts)

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 Ref Offset 3 69 dB
 Mkr1 2:401 860 GHz

 10 dB/div
 Ref 20.00 dBm
 -7.210 dBm

 100
 -7.210 dBm
 -7.210 dBm

 200
 -7.210 dBm
 -7.210 dBm

 600
 -7.210 dBm
 -7.210 dBm

 600
 -7.210 dBm
 -7.210 dBm

 700
 -7.210 dBm
 -7.210 dBm

 10
 1
 1
 2.402 862 GHz
 -7.210 dBm

 2
 N
 1
 1
 2.402 862 GHz
 -7.310 dBm

 3
 -7.310 dBm
 -7.310 dBm
 -7.310 dBm
 -7.310 dBm

 3
 -7.310 dBm
 -7.310 dBm
 -7.310 dBm
 -7.310 dBm

CFS NVNT 3-DH1 2402MHz

ALIGN O

Avg Type: Log-Pwr Avg|Hold:>100/100

SENSE:INT

PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB Report No.: TCT220323E003

04:29:37 PM Apr 06, 2022 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

🔤 Keysight Spectrum Analyzer - Swept S

Center Freg 2.402500000 GHz

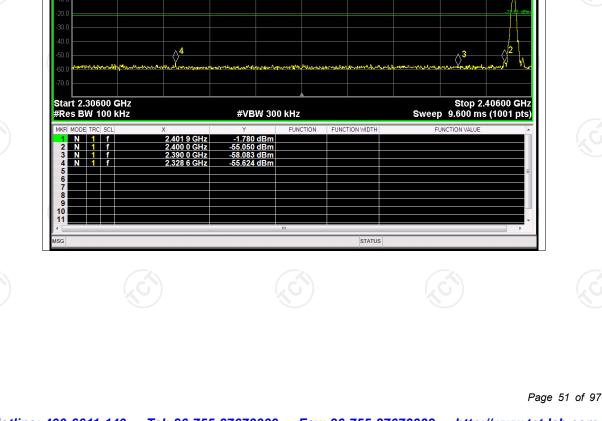
KI RL

TC		则检测 ENTRE TECHNOLOG	Y			R	eport No.: TCT	220323E003
	Keysight Spectru	m Analyzer - Swept SA	CFS NV	NT 3-DH1 2	2480MHz			
	LXI RL	RF 50Ω AC 1 2.479500000 G	iHz PNO: Wide IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN OFF Avg Type: Log Avg Hold:>100	j-Pwr //100	26 PM Apr 06, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN	
	10 dB/div R Log	ef Offset 3.91 dB ef 20.00 dBm				Mkr1 2.47 -12	8 864 GHz 2.140 dBm	
	-10.0				²			
	-30.0 -40.0 -50.0							
	-60.0							
	Center 2.479 #Res BW 10 MKR MODE TRC S	0 kHz	Y		FUNCTION WIDTH	Spa Sweep 1.000 n		
		f 2.479 8	164 GHz -12.140 162 GHz -12.299					
	7 8 9 10 11							
	MSG			m	STATUS		4	
							Page	49 of 97

			Band Edge			
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-54.02	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-50.23	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-54.09	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-45.35	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-49.29	-20	Pass
NVNT 🔇	3-DH1	2480	No-Hopping	-42.23	-20	Pass

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Test Graphs

1

ALIGN OF

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

Band Edge NVNT 1-DH1 2402MHz

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

#VBW 300 kHz

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

Band Edge NVNT 1-DH1 2402MHz

Keysight Spectrum Analyzer - Swept S

Center 2.402000 GHz #Res BW 100 kHz

Center Freq 2.356000000 GHz

Ref Offset 3.69 dB Ref 20.00 dBm

Keysight Sp

10 dB/di[,] Log

10 dB/div Log

Center Freq 2.402000000 GHz

Ref Offset 3.69 dB Ref 20.00 dBm

Report No.: TCT220323E003

d 💌 11:41:55 AM Apr 06, 2022

NNNN

TYPE DET 1 2 3 4 5 6 Maaaaaaaa

Mkr1 2.402 008 GHz -1.605 dBm

Span 8.000 MHz Sweep 1.000 ms (1001 pts)

RACI TYP

Mkr1 2.401 9 GHz -1.780 dBm

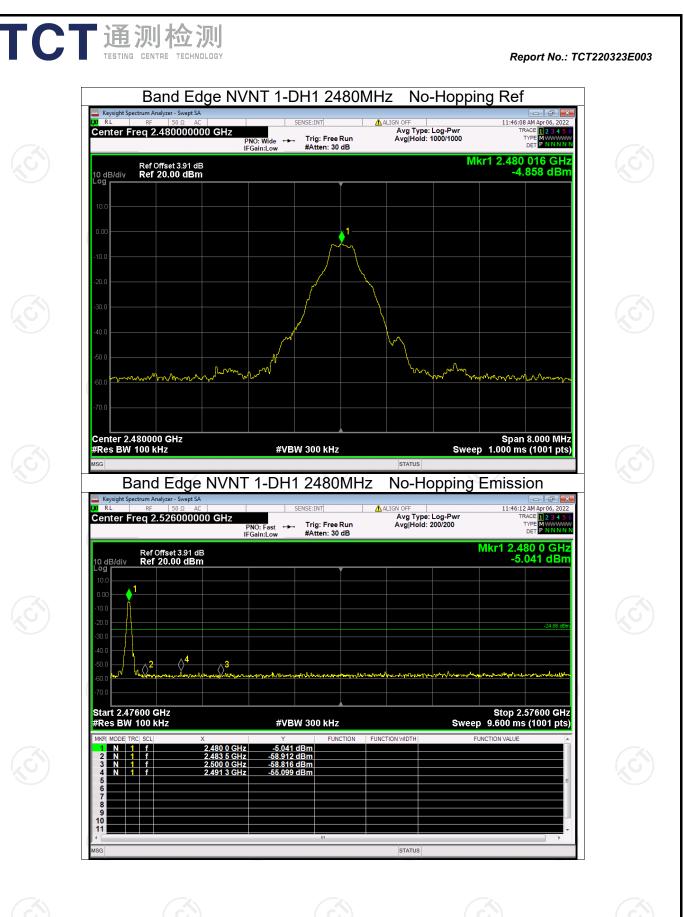
No-Hopping Ref

m

No-Hopping Emission

STATUS

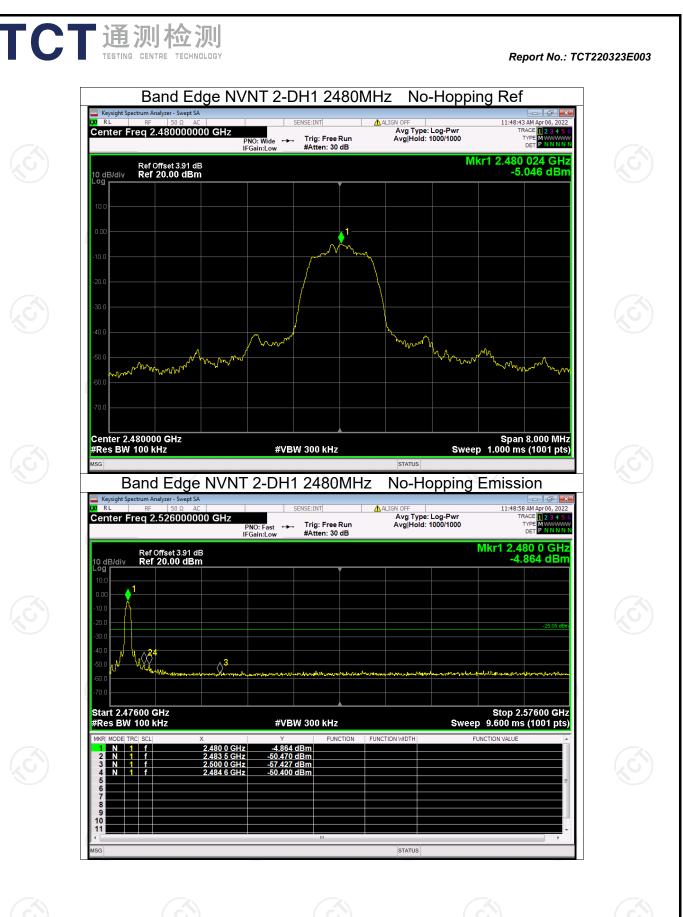
Avg Type: Log-Pwr Avg|Hold: 200/200



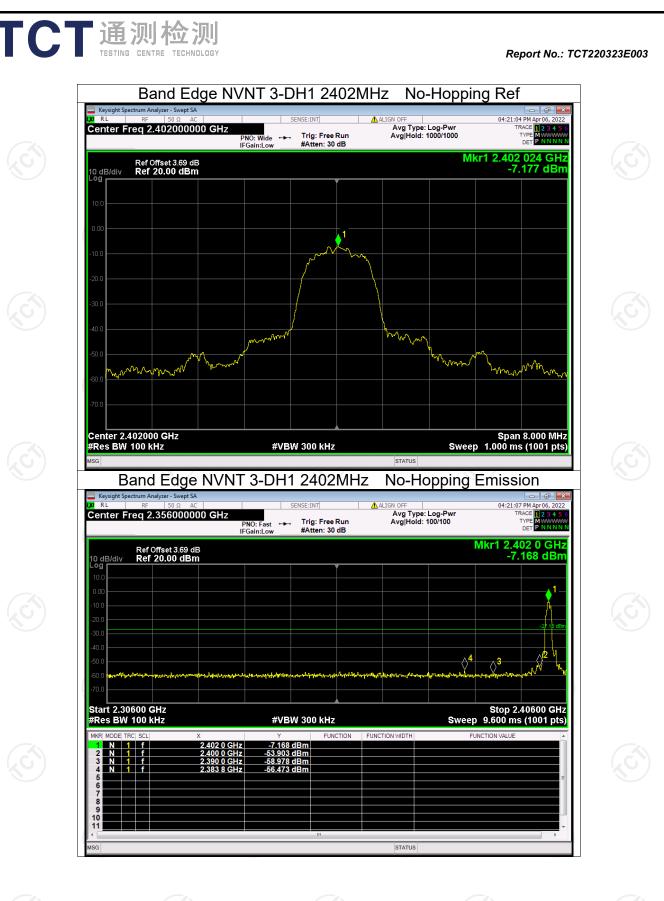
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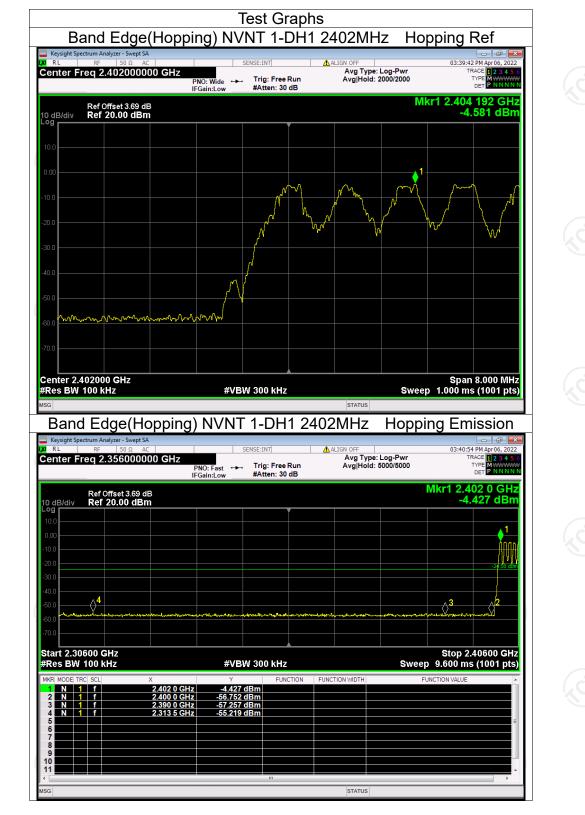
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-50.63	-20	Pass
NVNT	1-DH1	2480	Hopping	-50.86	-20	Pass
NVNT	2-DH1	2402	Hopping	-50.63	-20	Pass
NVNT	2-DH1	2480	Hopping	-50.11	-20	Pass
NVNT	3-DH1	2402	Hopping	-47.65	-20	Pass
NVNT 🔇	3-DH1	2480	Hopping	-43.69	-20	Pass

Band Edge(Hopping)

TCT通测检测 TEGTING CENTRE TECHNOLOGY

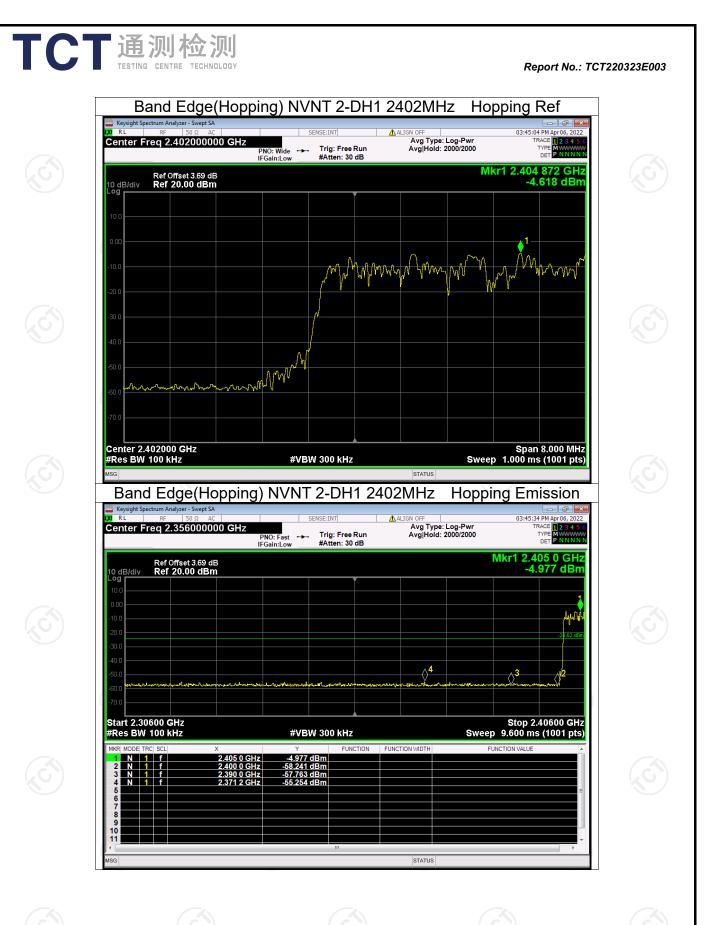


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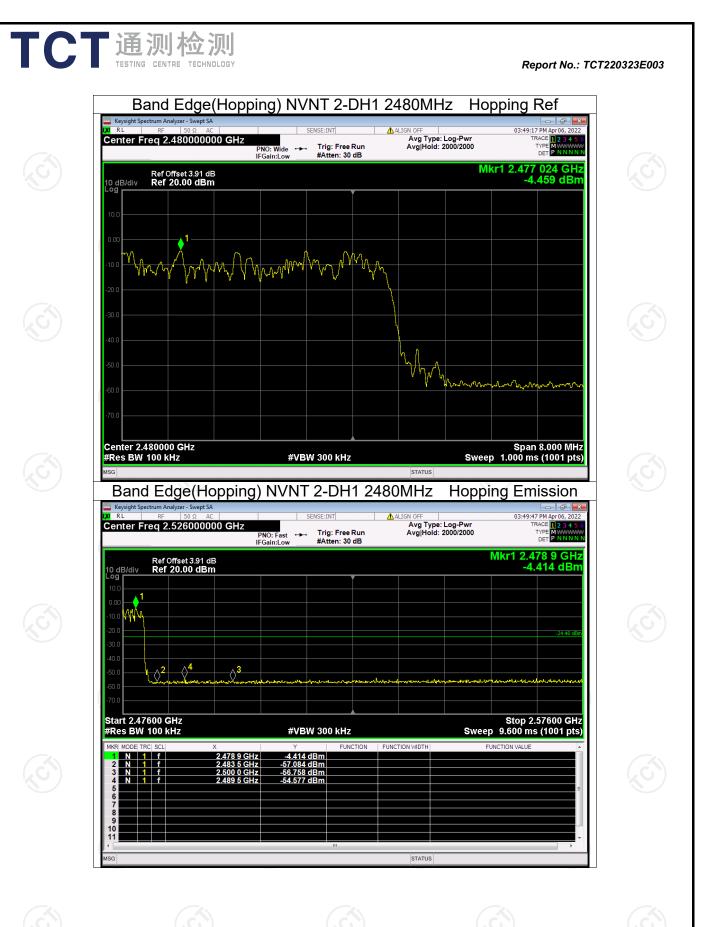


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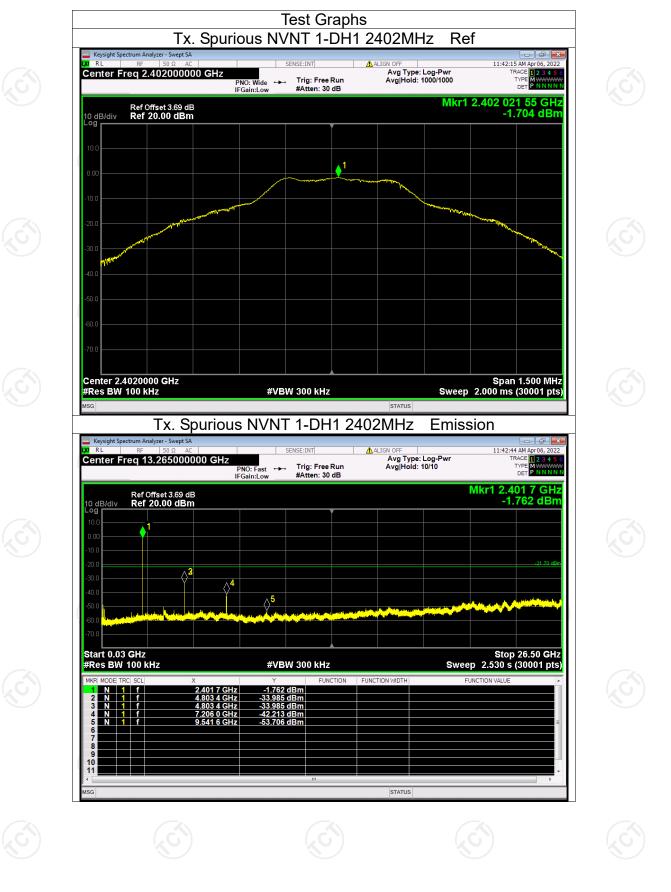
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TCT通测检测 TEGTING CENTRE TECHNOLOGY

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-32.28	-20	Pass
NVNT	1-DH1	2441	-32.42	-20	Pass
NVNT	1-DH1	2480	-31.79	-20	Pass
NVNT	2-DH1	2402	-35.94	-20	Pass
NVNT	2-DH1	2441	-34.80	-20	Pass
NVNT	2-DH1	2480	-36.46	-20	Pass
NVNT 🚫	3-DH1	2402	-27.88	-20	Pass
NVNT	3-DH1	2441	-28.85	-20	Pass
NVNT	3-DH1	2480	-21.46	-20	Pass
		S)	3)	C)	

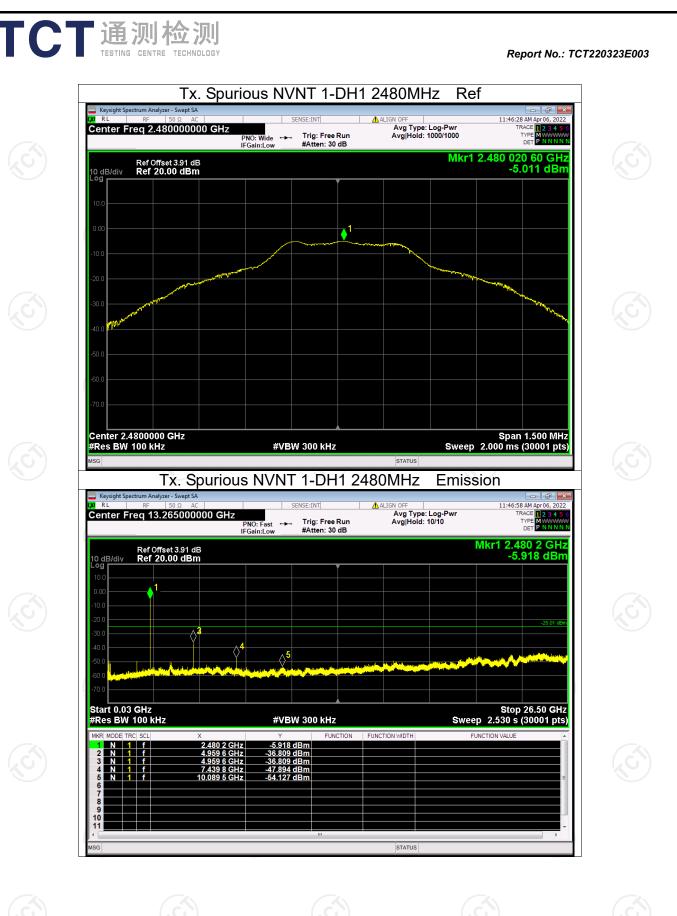
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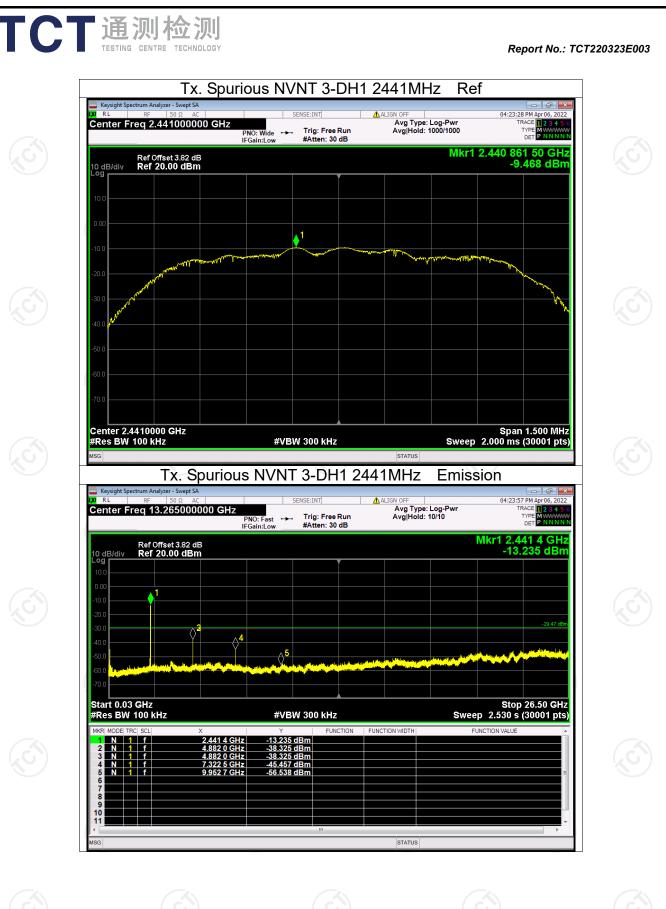


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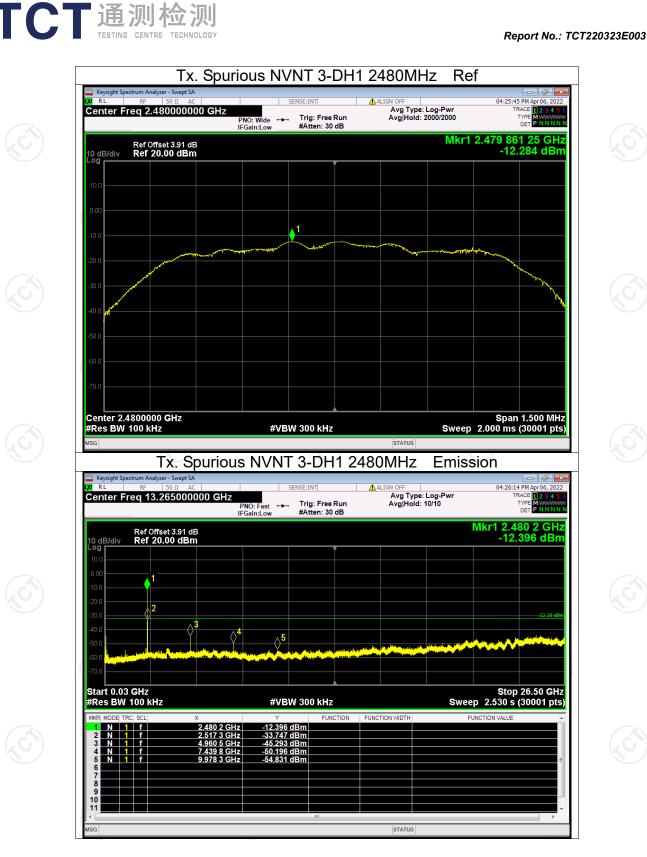


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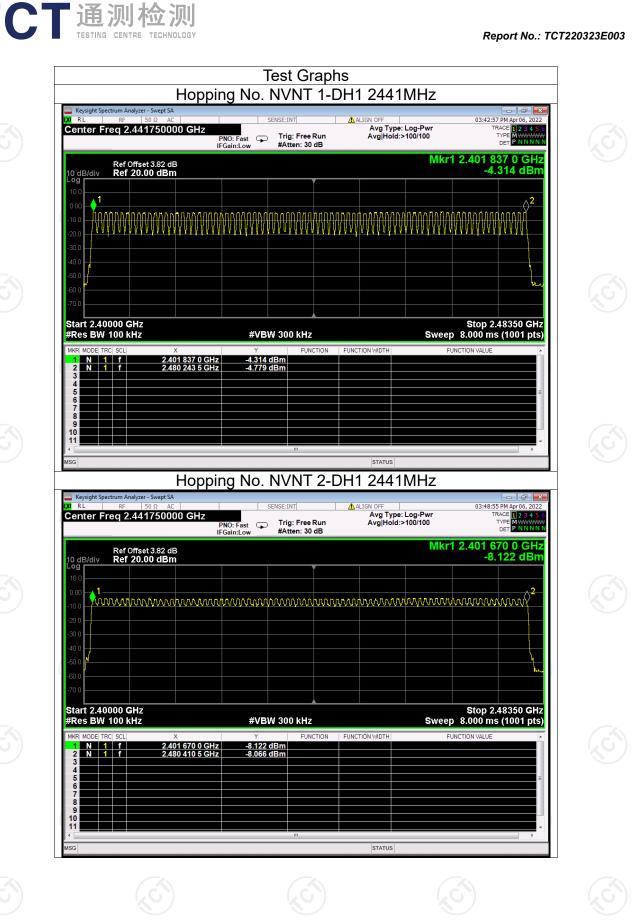


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Verd Pas	Limit 15	umber	lopping N 79	e F 1	Mode 1-DH	Condition NVNT	(
Pas Pas	15 15		79 79		2-DH 3-DH	NVNT NVNT	6



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