	TEST REPO	RT					
FCC ID	2AT8X-FALCONMAX						
Test Report No:	TCT231207E009	TCT231207E009					
Date of issue:	Dec. 15, 2023	S	le la				
Testing laboratory:	SHENZHEN TONGCE TEST	ING LAB					
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China						
Applicant's name:	Noble HiFi. LLC						
Address:	109 State Hwy. 110 S, White	nouse, Texas 75	5791, United States				
Manufacturer's name :	SHENZHEN SHI KISB ELECTRONIC CO., LTD.						
Address:	3-5/F, A Building Shanghe Industrial Park Nanchang Road, Xixiang Town Bao'an District Shenzhen, Guangdong, 518103 P.R.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:	True Wireless Stereo Earbud	S					
Trade Mark :	NOBLE						
Model/Type reference :	FALCON MAX	_					
	Rechargeable Li-ion Battery I	DC 3.7V					
Rating(s):	Dec. 07, 2023						
Date of receipt of test item	Dec. 07, 2023						
	Dec. 07, 2023	3					
Date of receipt of test item Date (s) of performance of	Dec. 07, 2023	3 Yannie	CCC CCC CCCC CCCCCCCCCCCCCCCCCCCCCCCCC				
Date of receipt of test item Date (s) of performance of test:	Dec. 07, 2023 ^f Dec. 07, 2023 - Dec. 15, 2023		TTCT				

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1. General Product Information

1.1. EUT description

Product Name:	True Wireless Stereo Earbuds		(c)
Model/Type reference:	FALCON MAX		
Sample Number	TCT231207E009-0101		
Bluetooth Version:	V5.3	S)	
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:	Internal Antenna		
Antenna Gain:	1.62dBi		
Rating(s):	Rechargeable Li-ion Battery DC 3.7V		

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

1.2. Model(s) list

None.

1.3. Operation Frequency

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

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

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3. General Information

3.1. Test environment and mode

Operating Environment:				
Condition	Conducted Emission	Radiated Emission		
Temperature:	23.5 °C	24.3 °C		
Humidity:	52 % RH	50 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Software:				
Software Information: Qualcomm BlueSuite 3.3.8				
Power Level:	6			
Test Mode:				
Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.				
above the ground plane of 3 polarities were performed. D the EUT continuously workin axis (X, Y & Z) and con- manipulating interconnecting from 1m to 4m in both	m chamber. Measurements i puring the test, each emission of, investigated all operating sidered typical configuration g cables, rotating the turnta horizontal and vertical po- shown in Test Results	ment below & above 1GHz n both horizontal and vertical n was maximized by: having g modes, rotated about all 3 n to obtain worst position, ble, varying antenna height plarizations. The emissions of the following pages. 11 is reported.		

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name	
Adapter	EP-TA200	R37M4PR7QD4SE3	1	SAMSUNG	

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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. 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

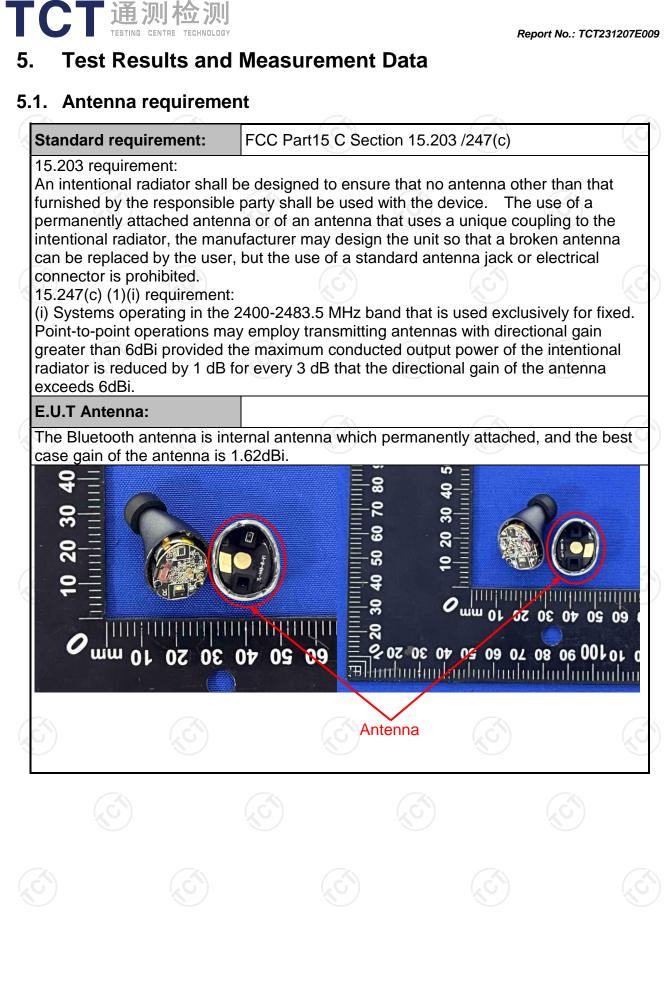
SHENZHEN TONGCE TESTING LAB

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 %.

N	о.	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



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5.2. Conducted Emission

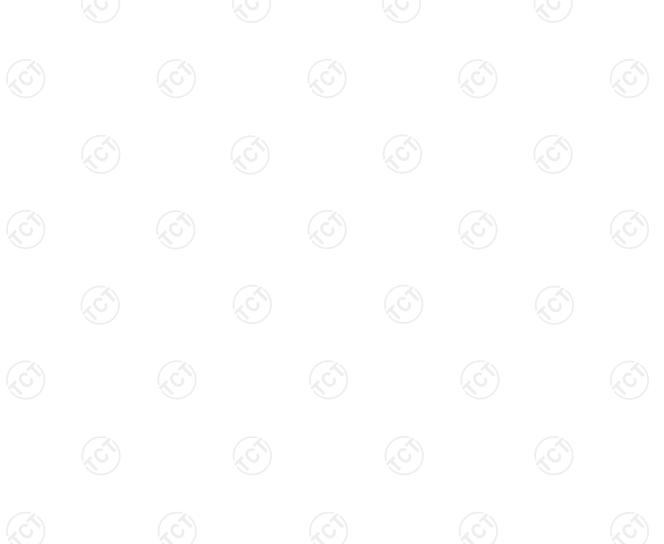
5.2.1. Test Specification

			(
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz	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			
	Reference	e Plane				
Test Setup:	40cm E.U.T AC powe Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m	EMI Receiver	r _ AC power			
Test Mode:	Charging + Transmittin	-				
Test Procedure:	 The E.U.T is connelimpedance stabilizing provides a 500hm/5 measuring equipment The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.10:2013 conducted and conducted and conducted and conducted and conducted and conducted cables and conduct c	ation network 50uH coupling im nt. es are also conne SN that provides with 50ohm terr diagram of the line are checke nce. In order to fi e positions of equ must be changed	(L.I.S.N.). This pedance for the ected to the main a 50ohm/50uh nination. (Please test setup and ed for maximun nd the maximun ipment and all o l according to			
Test Result:	PASS	<u>e</u>				



5.2.2. Test Instruments

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	chwarzbeck NSLK 8126 812		Feb. 20, 2024				
Line-5	ТСТ	CE-05	/	Jul. 03, 2024				
EMI Test Software	Shurple Technology	EZ-EMC	1	1				



5.2.3. Test data

Please refer to following diagram for individual Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) dBu¥ 80.0 70 Conduction(QP) HC.C 60 RCC Conduction(AVG 15C 50 40 11 30 20 10 0 -10 0.150 30.000 (MHz) 0.500 5.000 Site 844 Shielding Room Temperature: 23.5 (℃) Humidity: 52 % Phase: L1 Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Limit: FCC Part 15C Conduction(QP) Reading Correct Measure-No. Mk. Limit Over Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 0.1660 34.04 10.13 44.17 65.16 -20.99 QP 0.1660 15.17 10.13 25.30 AVG 2 55.16 -29.86 0.6780 56.00 -21.33 QP 3 25.39 9.28 34.67 0.6780 15.80 9.28 25.08 46.00 -20.92 AVG

56.00 -31.54

46.00 -33.90

56.00 -32.47

46.00 -33.13

56.00 -32.30

46.00 -33.02

60.00 -24.38

50.00 -27.88

QP

AVG

QP

AVG

QP

AVG

QP

AVG

Note:

1

4

5

6

7

8

9

10 11

12

Freq. = Emission frequency in MHz

15.39

3.03

13.52

2.86

13.66

2.94

25.46

11.96

9.07

9.07

10.01

10.01

10.04

10.04

10.16

10.16

24.46

12.10

23.53

12.87

23.70

12.98

35.62

22.12

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

0.9060

0.9060

1.9700

1.9700

3.0700

3.0700

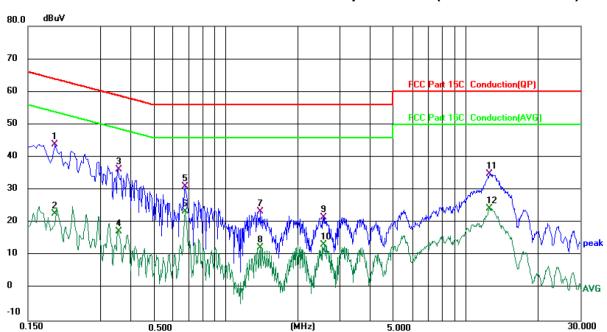
12.6940

12.6940

* 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)

Site 844	Shielding	Room			Pha	ase: N	٦	ໂemperature: 23.5 (℃)	Humidity: 52 %
Limit: F	CC Part 15	C Conduct	ion(QP)		Pow	er: DC 5	√(Adapter In	put AC 120 V/60 Hz)	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1 *	0.1940	33.80	10.14	43.94	63.86	-19.92	QP		
2	0.1940	12.63	10.14	22.77	5 3.86	-31.09	AVG		
3	0.3539	26.68	9.59	36.27	58.87	-22.60	QP		
4	0.3539	7.68	9.59	17.27	48.87	-31.60	AVG		
5	0.6780	21.83	9.28	31.11	56.00	-24.89	QP		
6	0.6780	14.22	9.28	23.50	46.00	-22.50	AVG		
7	1.3900	13.43	10.00	23.43	56.00	-32.57	QP		
8	1.3900	2.36	10.00	12.36	46.00	-33.64	AVG		
9	2.5539	11.66	10.02	21.68	56.00	-34.32	QP		
10	2.5539	3.23	10.02	13.25	46.00	-32.75	AVG		
11	12.5659	24.63	10.16	34.79	60.00	-25.21	QP		
12	12.5659	14.25	10.16	24.41	50.00	-25.59	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.

Note2:

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

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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 EUT
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.
Test Result:	PASS

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	\mathbf{S} \mathbf{I}	





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	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/



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

5.5.2. Test Instruments

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

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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:	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 = 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. Test Instruments

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

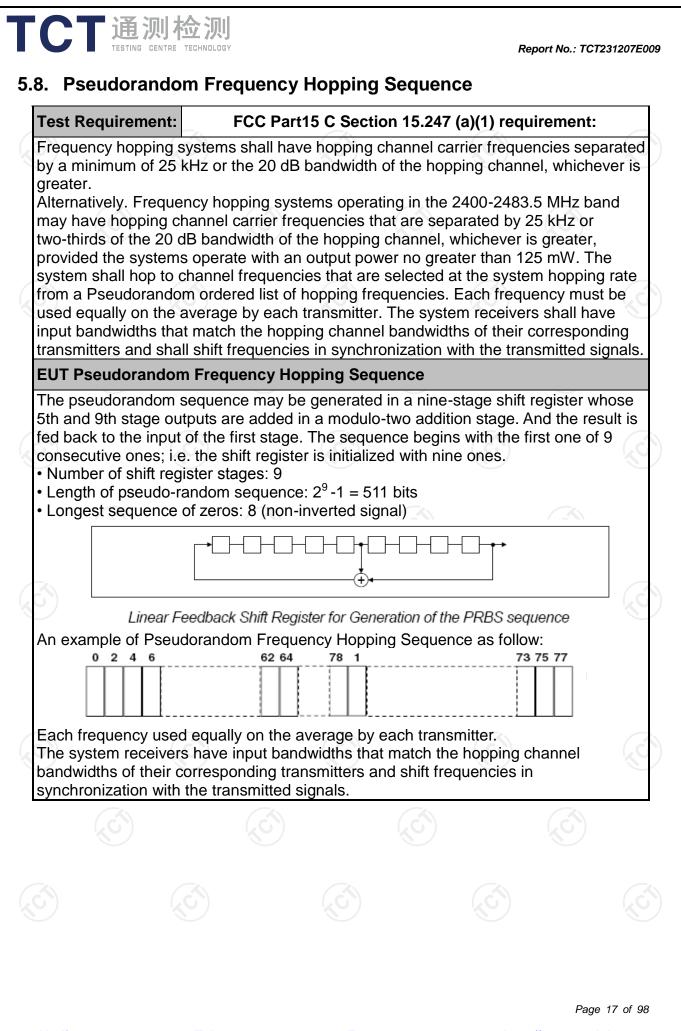
5.7. Dwell Time

5.7.1. Test Specification

FCC Part15 C Section 15.247 (a)(1)
KDB 558074 D01 v05r02
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.
Spectrum Analyzer EUT
Hopping mode
 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.
PASS

5.7.2. Test Instruments

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





5.9. Conducted Band Edge Measurement

5.9.1. 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 fa 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:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 30 kHz (≥RBW). Band edge emissions must be at leas 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.
Test Result:	PASS

5.9.2. Test Instruments

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



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	Jun. 28, 2024	
Combiner Box	Ascentest	AT890-RFB			

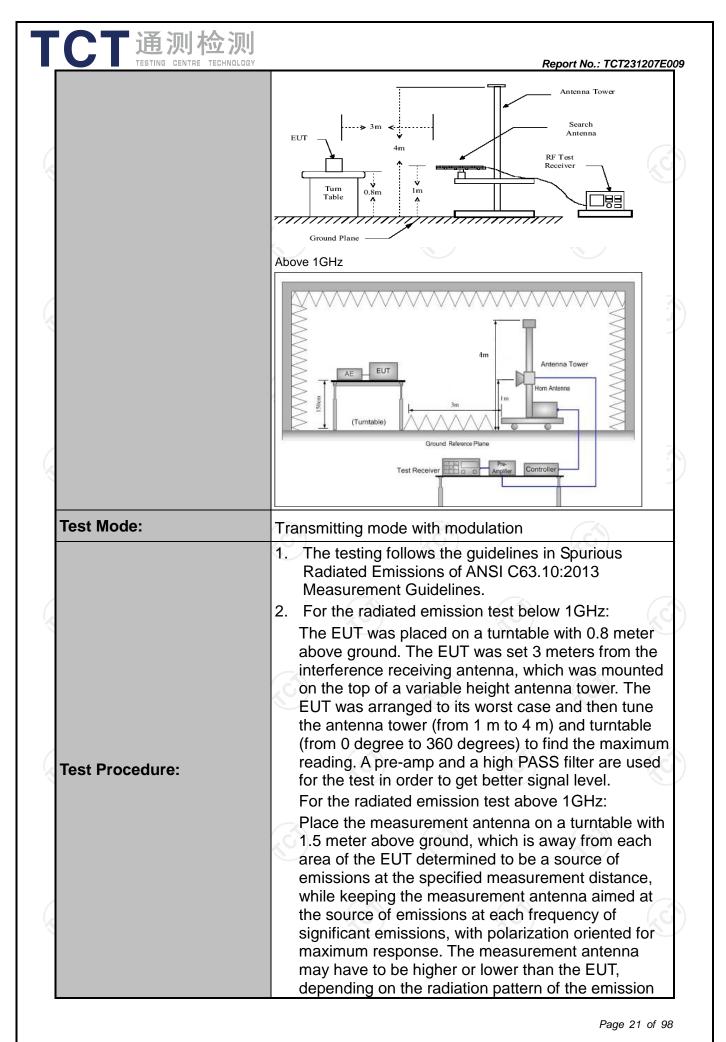


5.11. Radiated Spurious Emission Measurement

5.11.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

3 m Horizontal & Frequency	GHz	3										
3 m Horizontal & Frequency		3			6)							
Horizontal &	Vertical	9		K	9 kHz to 25 GHz							
Frequency	Vertical	3 m										
	Detector	RBW	VBW		Remark							
9kHz- 150kHz 150kHz- 30MHz	Quasi-peak Quasi-peak		<u>1kHz</u> 30kHz		i-peak Value i-peak Value							
30MHz-1GHz Above 1GHz	Peak	1MHz	300KHz 3MHz	Pe	i-peak Value eak Value							
	Peak				rage Value							
		(microvolts	/meter)		asurement nce (meters) 200							
					<u>300</u> 30							
		30	,	30								
30-88				3								
				3								
				3								
Above 1GHz		500 5000	(meter 3 3	3								
Dis EUT 0.8m	stance = 3m			Amplifier								
<u> </u>	5)	(<u>c</u>									
	30MHz-1GHz Above 1GHz Frequen 0.009-0.4 0.490-1.1 1.705-3 30-88 88-216 216-96 Above 9 Frequency Above 1GH2 For radiated emin	30MHz-1GHz Quasi-peak Above 1GHz Peak Peak Peak Peak Peak 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960 Pielk Frequency Fielk Move 1GHz For radiated emissions below Distance = 3m Image: Constant of the second	30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz Peak 1MHz Frequency Field Street (microvolts) 0.009-0.490 2400/F(t) 0.490-1.705 24000/F(t) 1.705-30 30 30-88 100 88-216 150 216-960 200 Above 960 500 Frequency Field Strength (microvolts/meter) Above 1GHz 500 For radiated emissions below 30MHz Distance = 3m EUT Tum table 1m Ground Plane Ground Plane	30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz Peak 1MHz 10Hz Frequency Field Strength (microvolts/meter) 0.009-0.490 2400/F(KHz) 0.490-1.705 24000/F(KHz) 1.705-30 30 30-88 100 88-216 150 216-960 200 Above 960 500 Frequency Field Strength (microvolts/meter) Measure Distance Above 1GHz 500 3 For radiated emissions below 30MHz Distance = 3m Pre-4 Uptote 1GHz Distance = 3m Image: Strength (microvolts/meter) Pre-4	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak Above 1GHz Peak 1MHz 3MHz Peak Frequency Field Strength (microvolts/meter) Measuremetr) Distar 0.009-0.490 2400/F(KHz) 0.490-1.705 24000/F(KHz) 1.705-30 30 30 30 30-88 100 88-216 150 216-960 200 200 Above 960 500 Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Distance (meters) Above 1GHz 500 3 3 5000 3 For radiated emissions below 30MHz Distance = 3m Compate Receiver 0.stance = 3m Compate Receiver Receiver							



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	receivin measure maximiz antenna restricte above tl 3. Set to EUT tra 4. Use the (1) Spa em (2) Set for Sv (3) Fo co	ying aimed at the g the maximum ement antennal zes the emission a elevation for me ed to a range of the ground or ref the maximum p ansmit continuou e following spect an shall wide en ission being me t RBW=120 kHz f>1GHz ; VBW≥ weep = auto; De max hold for pea or average meas prection factor m 35(c). Duty cycle time = N1*L1+L	e emission s signal. The elevation sha as. The meas aximum emi heights of fro erence grou ower setting usly. trum analyze ough to fully asured; for $f < 1$ GH eRBW; tector function ak surement: us nethod per e = On time/	final all be that surement issions sha om 1 m to nd plane. and enat er settings: capture th lz, RBW=1 on = peak; e duty cyc	which all be 4 m ole th ne MHz Trace le
	W ler Av Le Cor	/here N1 is numl ngth of type 1 pu verage Emission evel + 20*log(Du rrected Reading	ber of type 1 ulses, etc. Level = Pea ty cycle) : Antenna Fa	ak Emissio actor + Cal	1 is on ble
Test results:	W ler Av Le Cor	where N1 is numl ngth of type 1 po verage Emission evel + 20*log(Du	ber of type 1 ulses, etc. Level = Pea ty cycle) : Antenna Fa	ak Emissio actor + Cal	1 is on ble
Test results:	W ler Av Le Cor Los	/here N1 is numl ngth of type 1 pu verage Emission evel + 20*log(Du rrected Reading	ber of type 1 ulses, etc. Level = Pea ty cycle) : Antenna Fa	ak Emissio actor + Cal	1 is on ble
Test results:	W ler Av Le Cor Los	/here N1 is numl ngth of type 1 pu verage Emission evel + 20*log(Du rrected Reading	ber of type 1 ulses, etc. Level = Pea ty cycle) : Antenna Fa	ak Emissio actor + Cal	1 is on ble
Test results:	W ler Av Le Cor Los	/here N1 is numl ngth of type 1 pu verage Emission evel + 20*log(Du rrected Reading	ber of type 1 ulses, etc. Level = Pea ty cycle) : Antenna Fa	ak Emissio actor + Cal	1 is on ble



5.11.2. Test Instruments

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

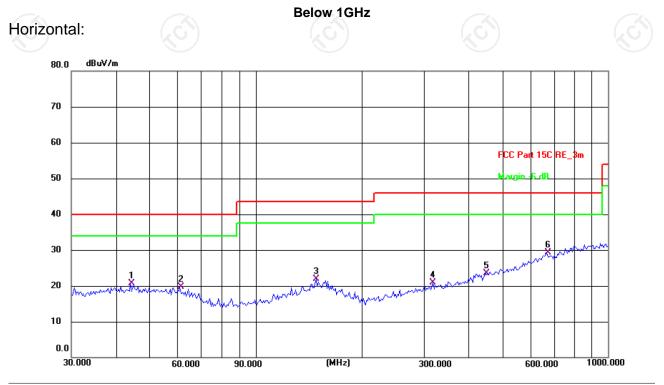
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5.11.3. Test Data

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Please refer to following diagram for individual



Site: #1 3m Anechoic Chamber Polarization: Horizontal Temperature: 24.3(C) Humidity: 50 %

Limit: FCC Part 15C RE_3m

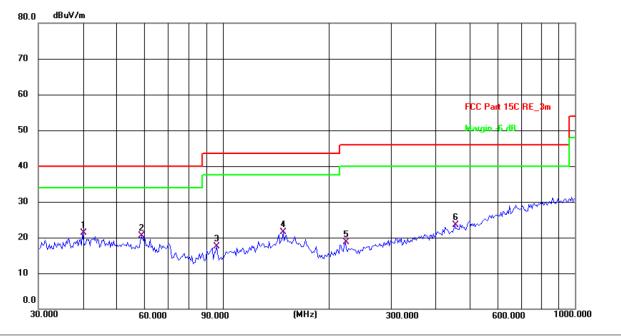
Power: DC 3.7 V

		-							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	44.1202	6.87	13.83	20.70	40.00	-19.30	QP	Р	
2	60.9176	6.93	12.71	19.64	40.00	-20.36	QP	Р	
3	148.4410	7.52	14.40	21.92	43.50	-21.58	QP	Р	
4	318.8170	6.24	14.58	20.82	46.00	-25.18	QP	Р	
5	449.5558	5.88	17.53	23.41	46.00	-22.59	QP	Р	
6 *	670.4893	7.35	21.89	29.24	46.00	-16.76	QP	Ρ	

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Report No.: TCT231207E009

Vertical:



Site: #1 3m Anechoic Chamber Temperature: 24.3(C) Humidity: 50 % Polarization: Vertical

Power: DC 3.7 V Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (dB/m)(dBuV/m) (dBuV/m) (MHz) (dBuV) (dB) 1 * 39,9942 7.09 14.23 21.32 40.00 -18.68 QP Ρ 2 58.8185 7.45 12.98 20.43 40.00 -19.57 QP Ρ 96.0985 7.18 10.27 17.45 43.50 3 -26.05 QP Ρ 4 148.4410 7.10 14.40 21.50 43.50 -22.00 QP Ρ 5 222,9502 7.16 11.53 18.69 46.00 -27.31 QP Ρ 6 455.9058 5.71 17.76 23.47 46.00 -22.53 QP Ρ

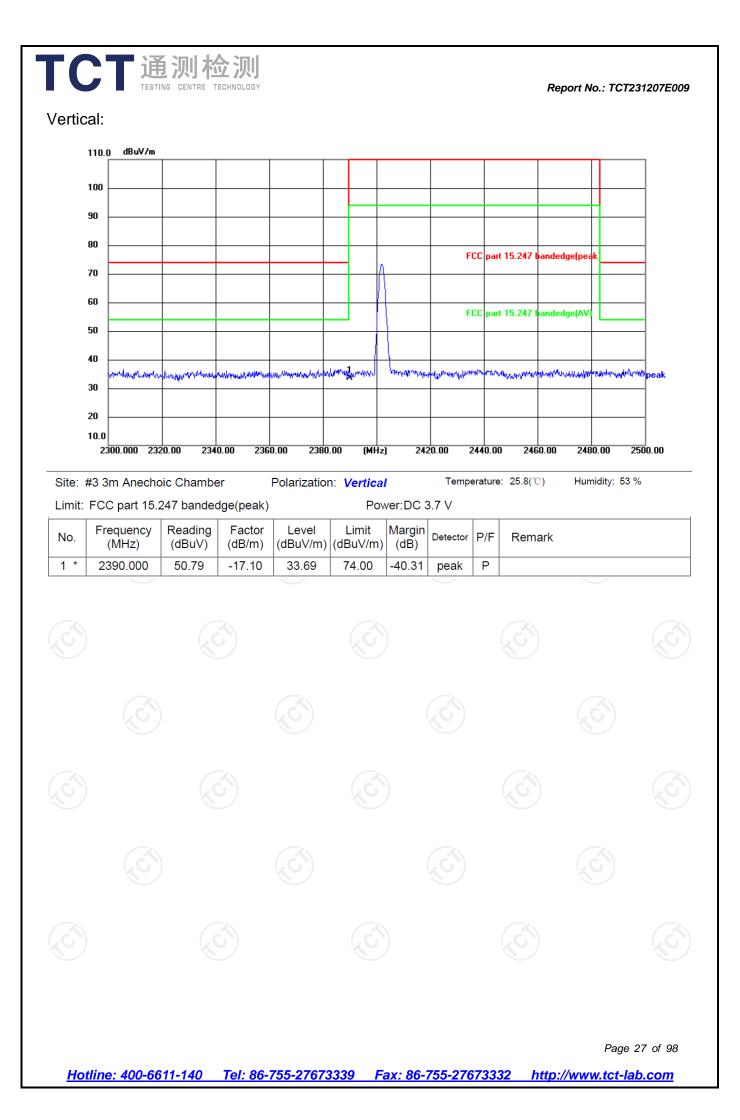
Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

- 2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Highest channel and 8DPSK) 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
 - $Over (dB) = Measurement (dB\mu V/m) Limits (dB\mu V/m)$
 - * is meaning the worst frequency has been tested in the test frequency range.

Report No.: TCT231207E009

Report No.: TCT231207E009 Test Result of Radiated Spurious at Band edges Lowest channel 2402: Horizontal: dBu¥/m 110.0 100 90 80 FCC part 15.247 bandedge(peak 70 60 FCC part 15.247 bandedge(AV) 50 40 mummmmm peak A A SMAR WWW WWWWW shawking . Manufa Ann 30 20 10.0 2300.000 2320.00 2340.00 2360.00 2380.00 (MHz) 2420.00 2440.00 2460.00 2480.00 2500.00 Temperature: 25.8(℃) Humidity: 53 % Site: #3 3m Anechoic Chamber Polarization: Horizontal Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Frequency Reading Factor Level Limit Margin P/F No. Detector Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) 50.47 1 * 2390.000 -17.10 33.37 74.00 -40.63 Ρ peak Page 26 of 98

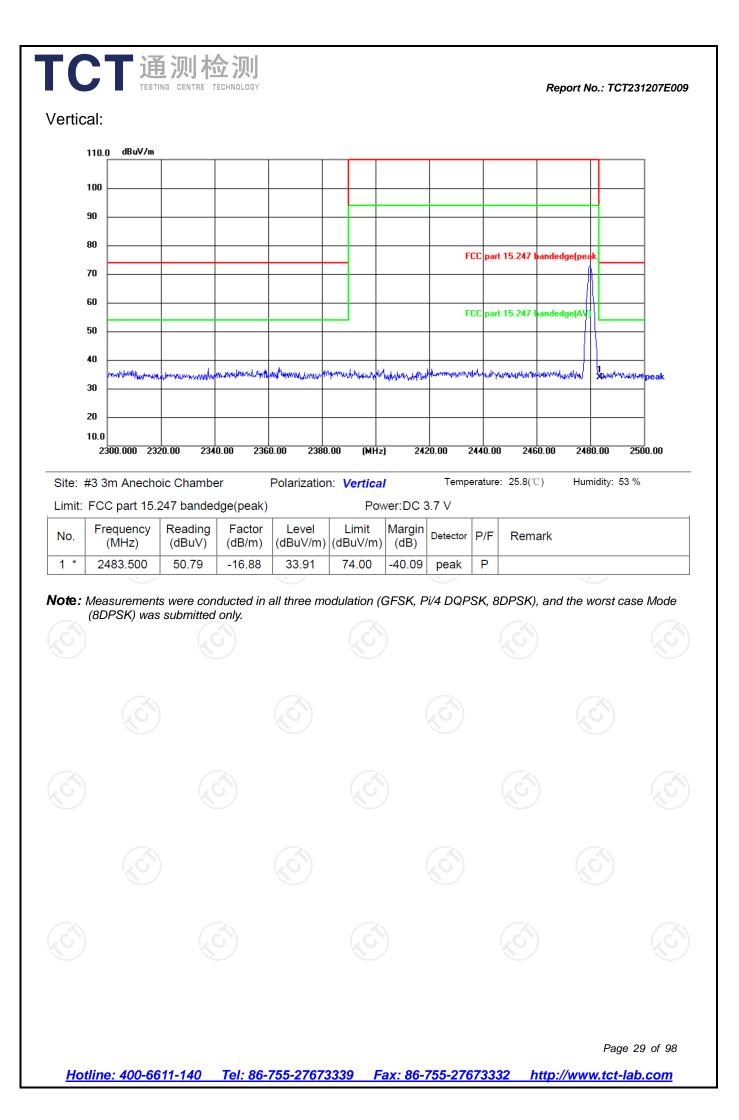
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Report No.: TCT231207E009 Highest channel 2480: Horizontal: dBu¥/m 110.0 100 90 80 FCC part 15.247 bandedge(pea 70 60 FCC part 15.247 bandedge(AV 50 40 Same who would Mangalan www.www.www. when the market moundate mandrummeter www.www.www. MANA 30 20 10.0 2340.00 2300.000 2320.00 2360.00 2380.00 (MHz) 2420.00 2440.00 2460.00 2480.00 2500.00

Site: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 25.8(℃) Humidity: 53 % Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Reading Frequency Factor Level Limit Margin Detector P/F No. Remark (dB/m) (dBuV/m) (dBuV/m) (MHz) (dBuV) (dB) 2483.500 51.73 -16.88 1 * 34.85 74.00 -39.15 Ρ peak





Above 1GHz

Modulation Type: 8DPSK											
Low channel: 2402 MHz											
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	46.08		0.66	46.74		74	54	-7.26		
7206	Н	37.51		9.50	47.01		74	54	-6.99		
	Н					~~					
(C		U,C	•)		· C`)		(\mathcal{O})			
4804	V	45.93		0.66	46.59		74	54	-7.41		
7206	V	35.16		9.50	44.66		74	54	-9.34		
	V										

Middle cha	nnel: 2441	MHz))				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)		Margin (dB)
4882	H	45.37		0.99	46.36	<u> </u>	74	54	-7.64
7323	KOH)	35.84	-140	9.87	45.71	01	74	54	-8.29
	¥					<u> </u>			
						-			
4882	V	47.60		0.99	48.59		74	54	-5.41
7323	V	36.29		9.87	46.16		74	54	-7.84
/	V			~ ×	· /				

High channel: 2480 MHz

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Ant Pol	Peak	AV	Correction	Emissio	on Level	Poak limit	AV/ limit	Margin
H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV			(dB)
Н	45.72		1.33	47.05	· (74	54	-6.95
Н	35.45		10.22	45.67		74	54	-8.33
Н								
	(.G)		(.0			(.c)		. .
V	43.98		1.33	45.31		74	54	-8.69
V	34.56		10.22	44.78		74	54	-9.22
V								
ſ	Ant. Pol. H/V H	Ant. Pol. reading (dBµV) H 45.72 H 35.45 H V 43.98 V 34.56	Ant. Pol. H/V Peak reading (dBµV) AV reading (dBµV) H 45.72 H 35.45 H V 43.98 V 34.56	Ant. Pol. H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) H 45.72 1.33 H 35.45 10.22 H 1.33 V 43.98 1.33 V 34.56 10.22	Ant. Pol. H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) Emissic Peak (dBµV/m) H 45.72 1.33 47.05 H 35.45 10.22 45.67 H 1.33 47.05 V 43.98 1.33 45.31 V 34.56 10.22 44.78	Ant. Pol. H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) Emission Level Peak (dBµV/m) H 45.72 1.33 47.05 H 35.45 10.22 45.67 H 1.33 45.31 V 43.98 10.22 44.78	Ant. Pol. H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) Emission Level Peak (dBµV/m) Peak limit (dBµV/m) H 45.72 1.33 47.05 74 H 35.45 10.22 45.67 74 H 1.33 45.31 74 V 43.98 1.33 45.31 74 V 34.56 10.22 44.78 74	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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

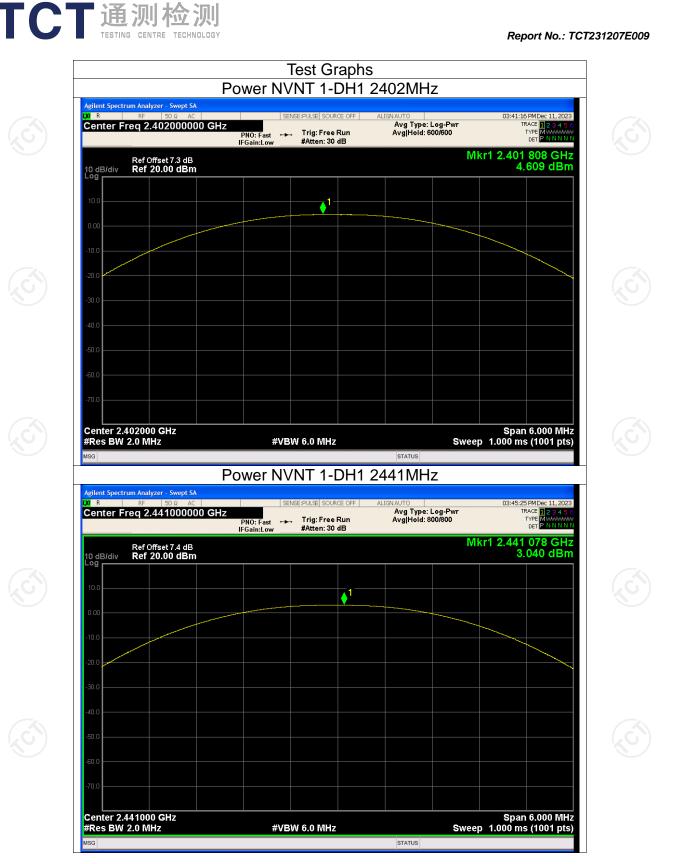
7. All the restriction bands are compliance with the limit of 15.209.



Appendix A: Test Result of Conducted Test

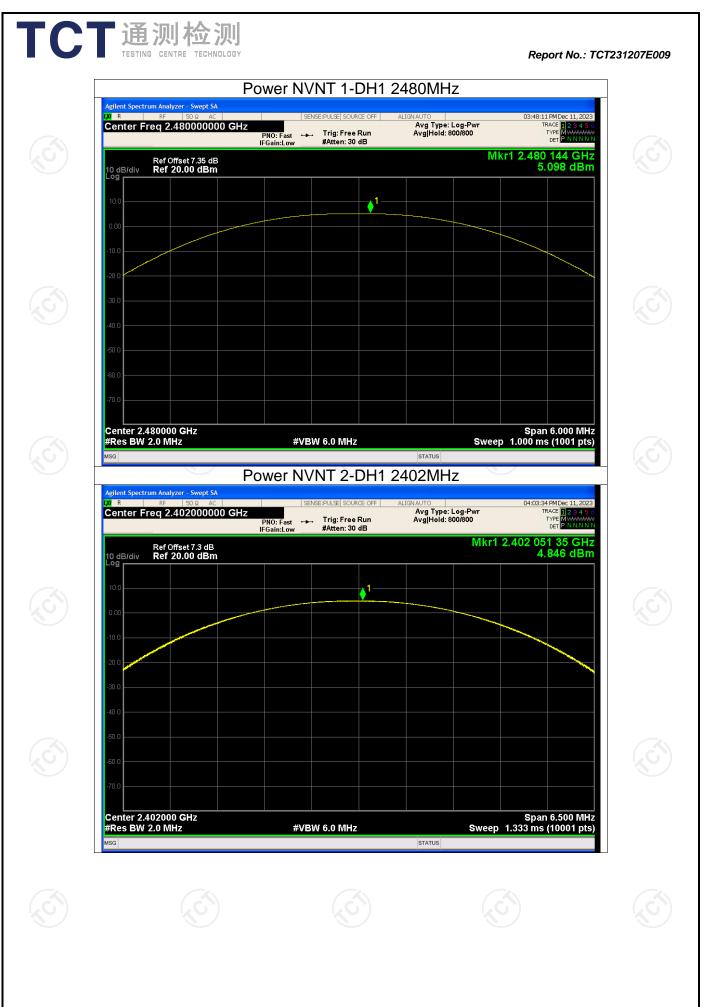
Maximum Conducted Output Power										
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict					
NVNT	1-DH1	2402	4.61	30	Pass					
NVNT	1-DH1	2441	3.04	30	Pass					
NVNT	1-DH1	2480	5.10	30	Pass					
NVNT	2-DH1	2402	4.85	21	Pass					
NVNT	2-DH1	2441	3.39	21	Pass					
NVNT	2-DH1	2480	5.74	21	Pass					
NVNT 🔇	3-DH1	2402 🚫	5.52	21	Pass					
NVNT	3-DH1	2441	4.05	21	Pass					
NVNT	3-DH1	2480	6.32	21	Pass					

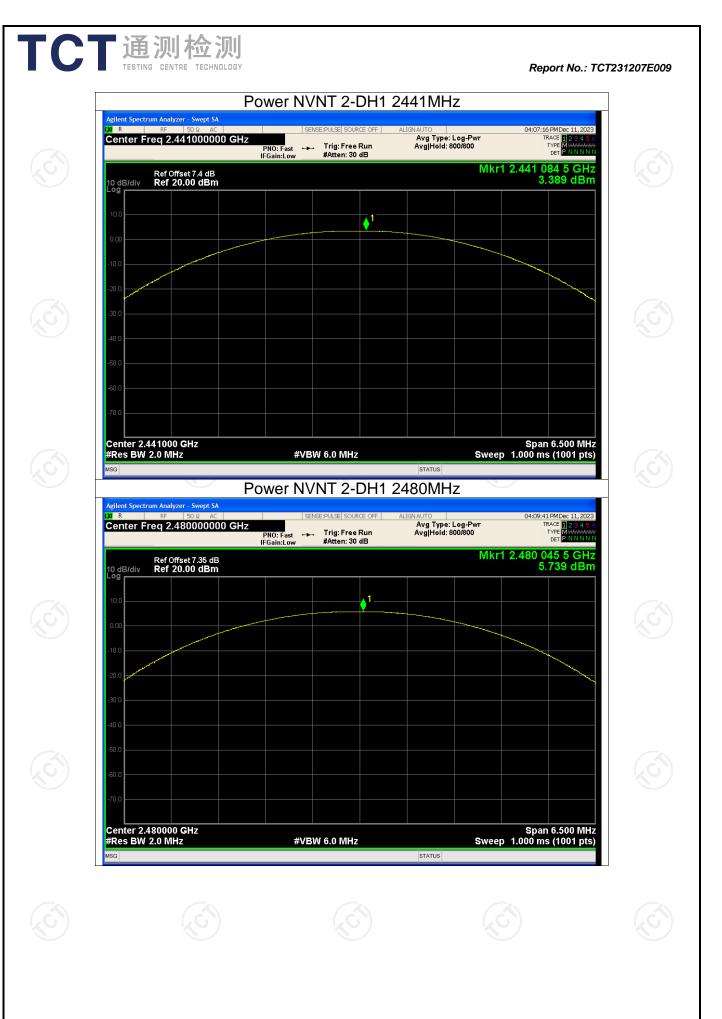




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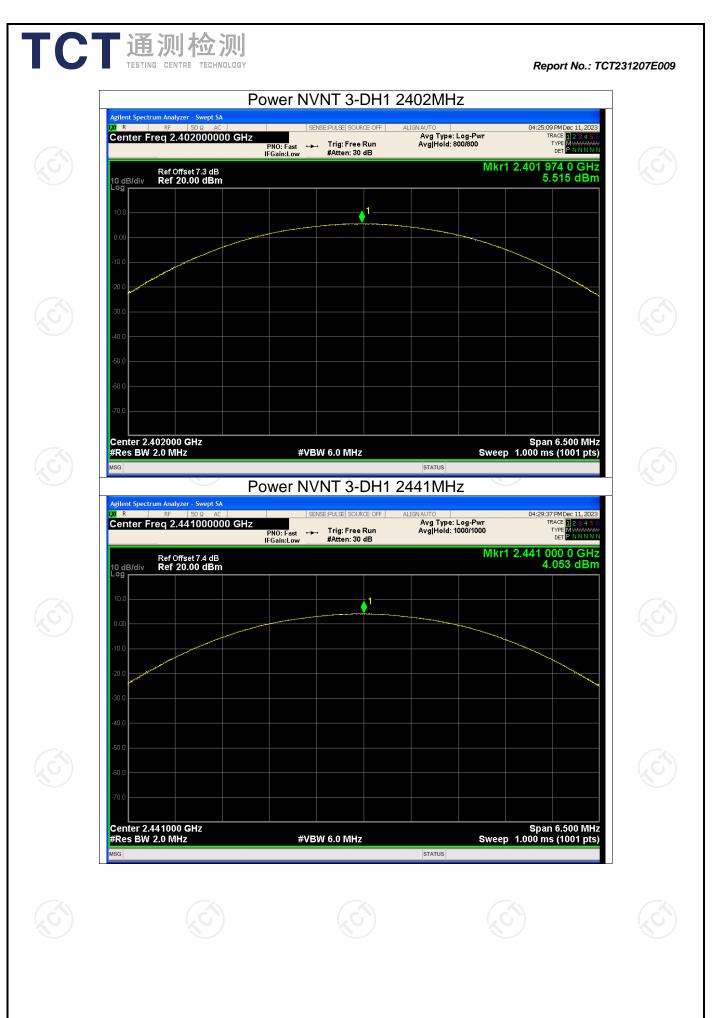
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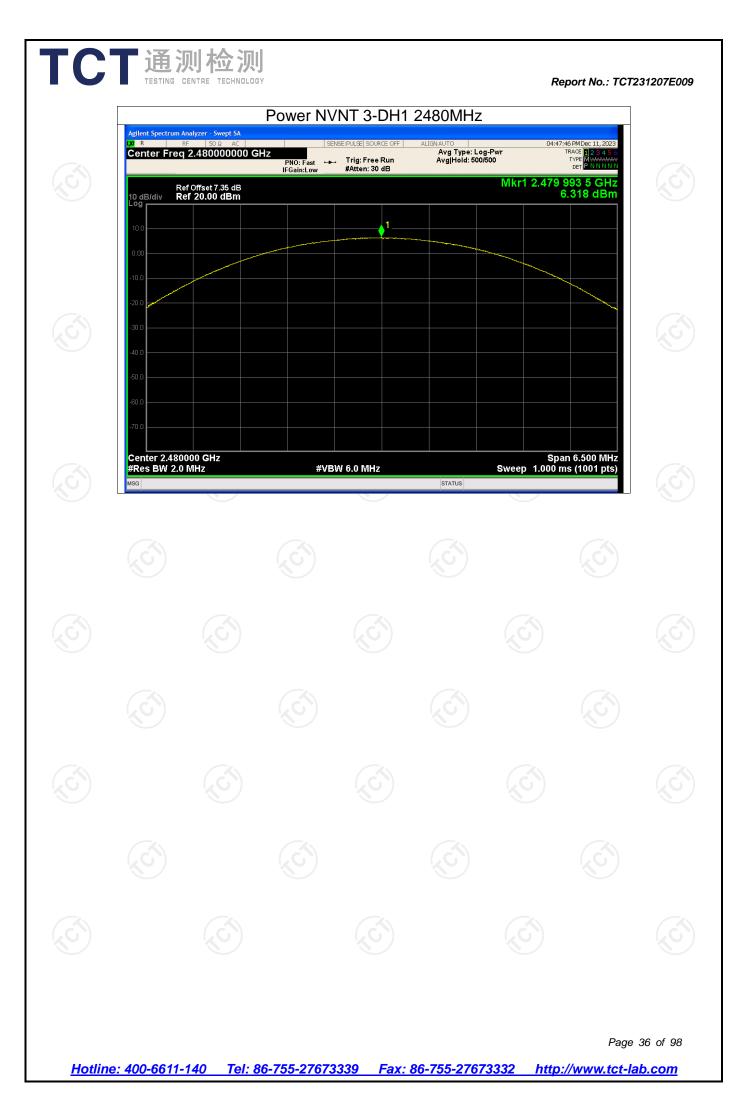


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Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.966	Pass
NVNT 🚫	1-DH1	2441	0.962	Pass
NVNT	1-DH1	2480	0.966	Pass
NVNT	2-DH1	2402	1.368	Pass
NVNT	2-DH1	2441	1.365	Pass
NVNT	2-DH1	2480	1.370	Pass
NVNT	3-DH1	2402	1.351	Pass
NVNT	3-DH1	2441	1.352	Pass
NVNT	3-DH1	2480	1.355	Pass
N.	5)		KO)	

-20dB Bandwidth

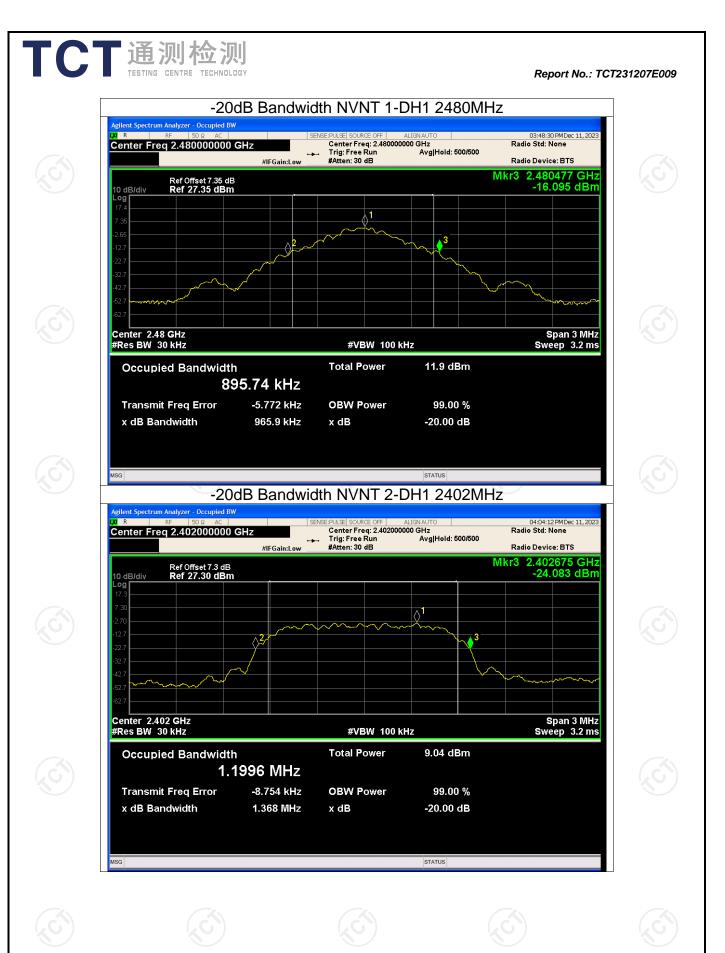


Report No.: TCT231207E009



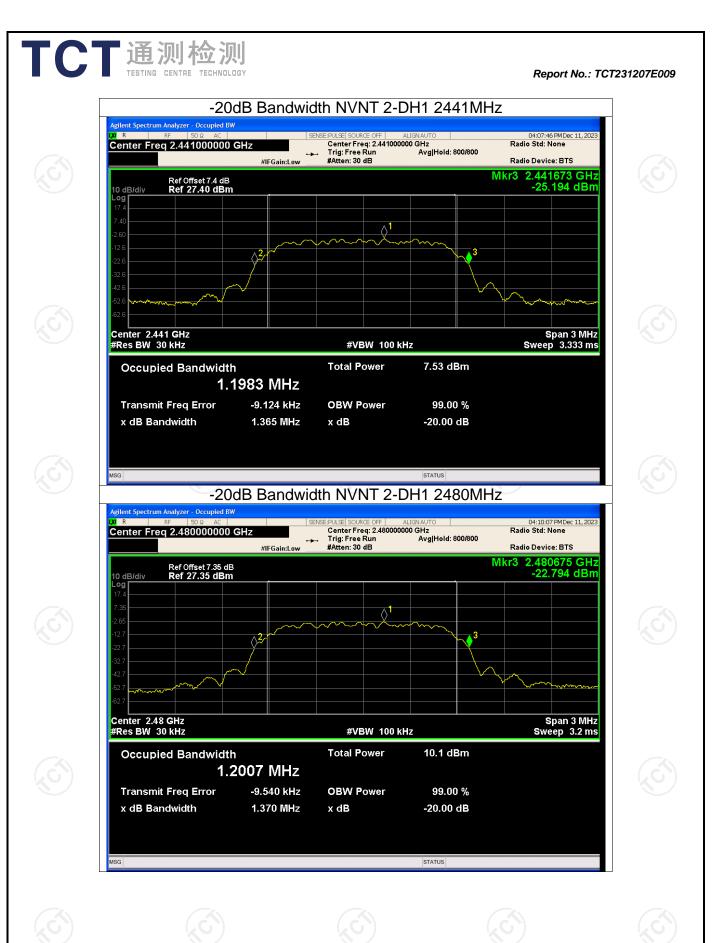
-20dB Bandwidth NVNT 1-DH1 2441MHz





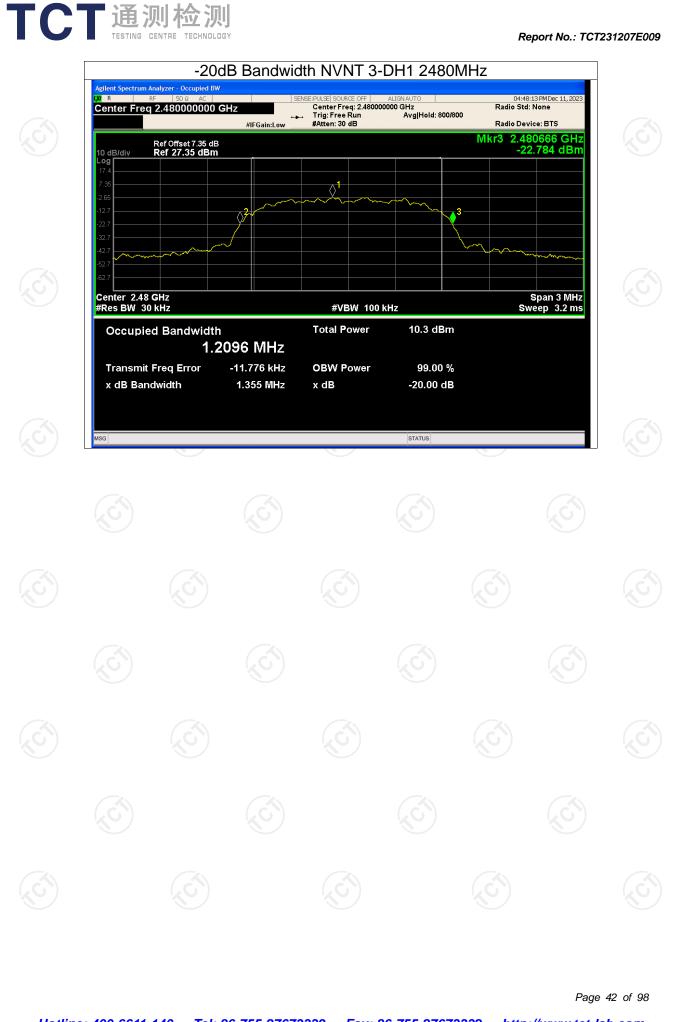
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Contantion	modo	(MHz)	(MHz)	(MHz)	(MHz)	roraiot
NVNT	1-DH1	2402.034	2403.038	1.004	0.966	Pass
NVNT	1-DH1	2441.036	2442.036	1.000	0.966	Pass
NVNT	1-DH1	2479.032	2480.030	0.998	0.966	Pass
NVNT	2-DH1	2402.024	2403.020	0.996	0.913	Pass
NVNT	2-DH1	2441.024	2442.022	0.998	0.913	Pass
NVNT 🔇	2-DH1	2479.024	2480.030	1.006	0.913	Pass
NVNT	3-DH1	2402.086	2403.080	0.994	0.903	Pass
NVNT	3-DH1	2441.082	2442.084	1.002	0.903	Pass
NVNT	3-DH1	2479.088	2480.086	0.998	0.903	Pass

Carrier Frequencies Separation Hopping Freq1 Hopping Freq2

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Condition Mode

F

HFS

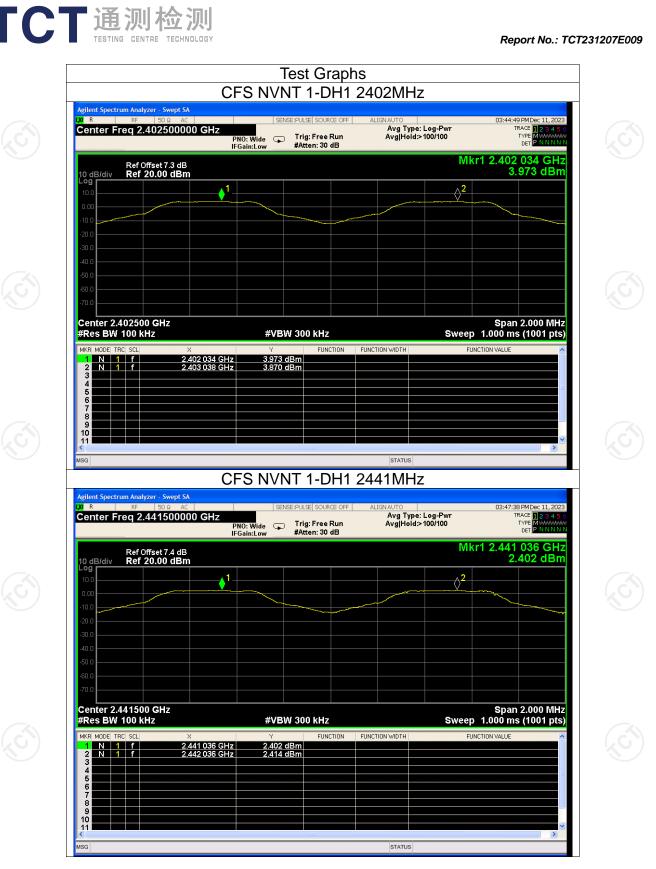
Report No.: TCT231207E009

Verdict

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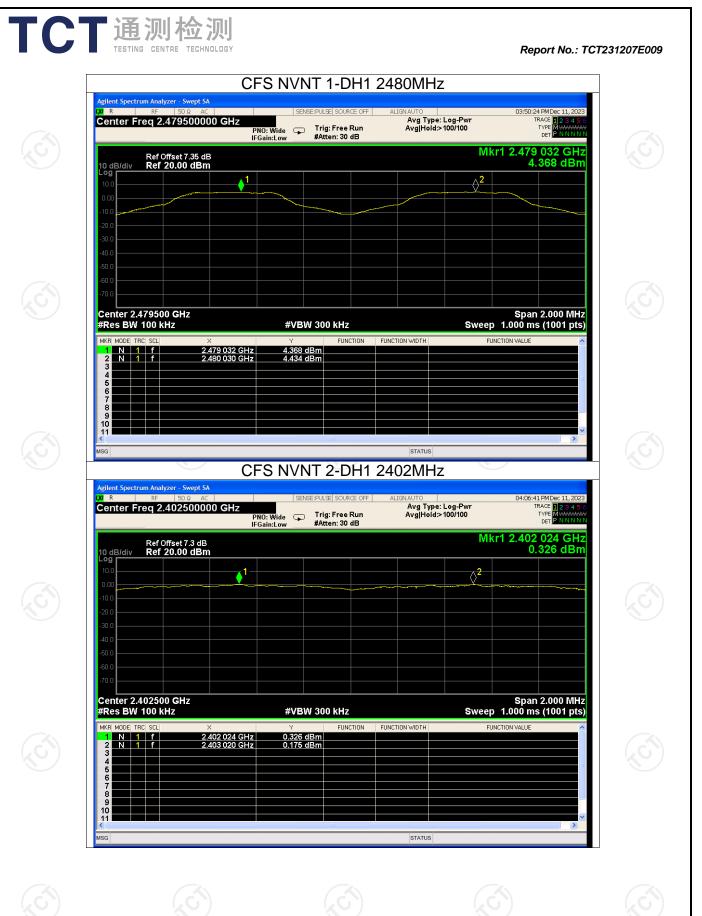
Limit

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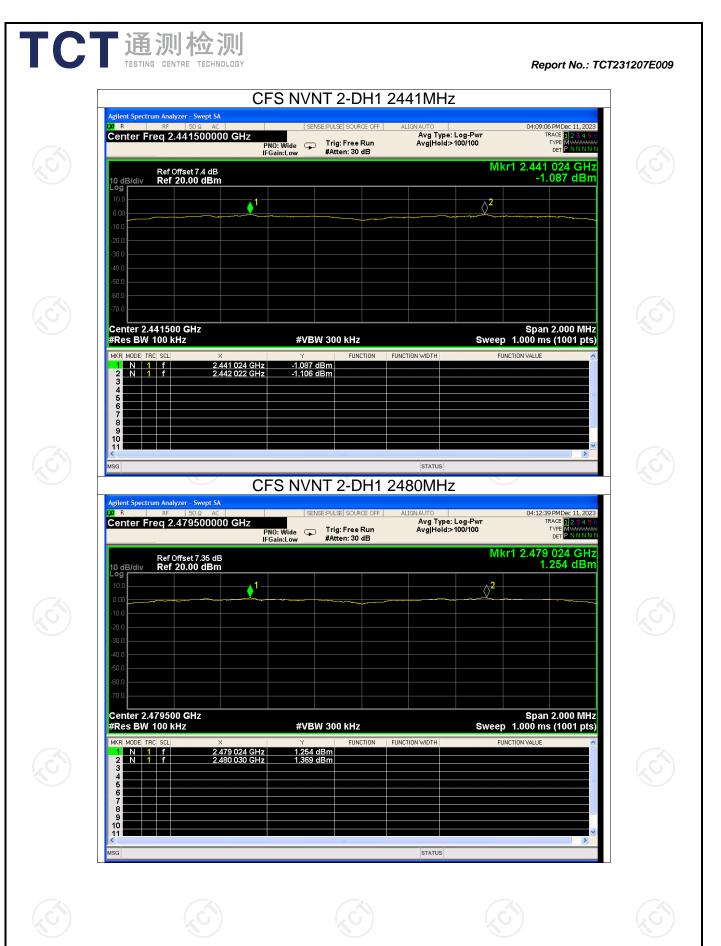


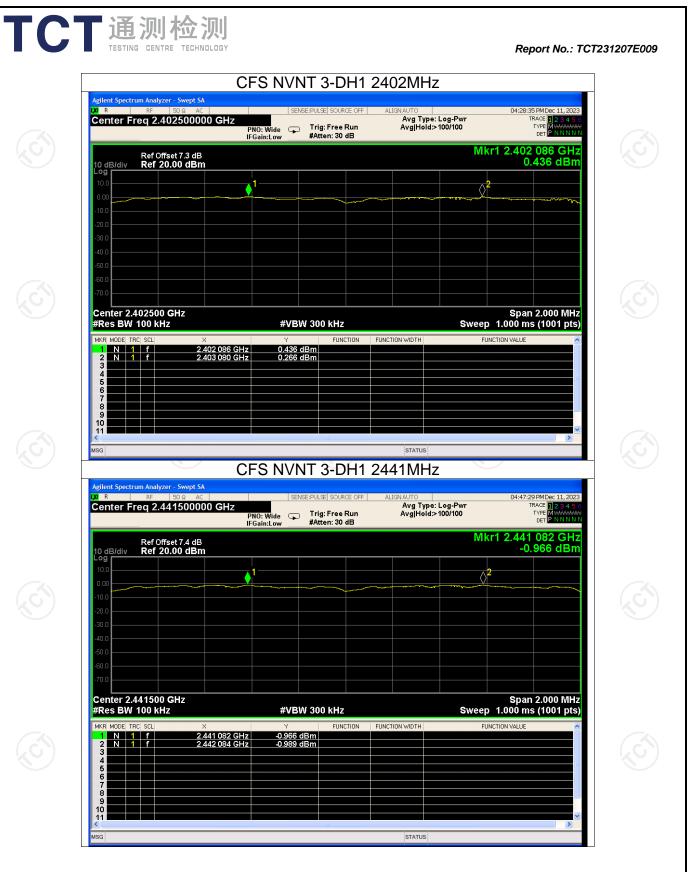
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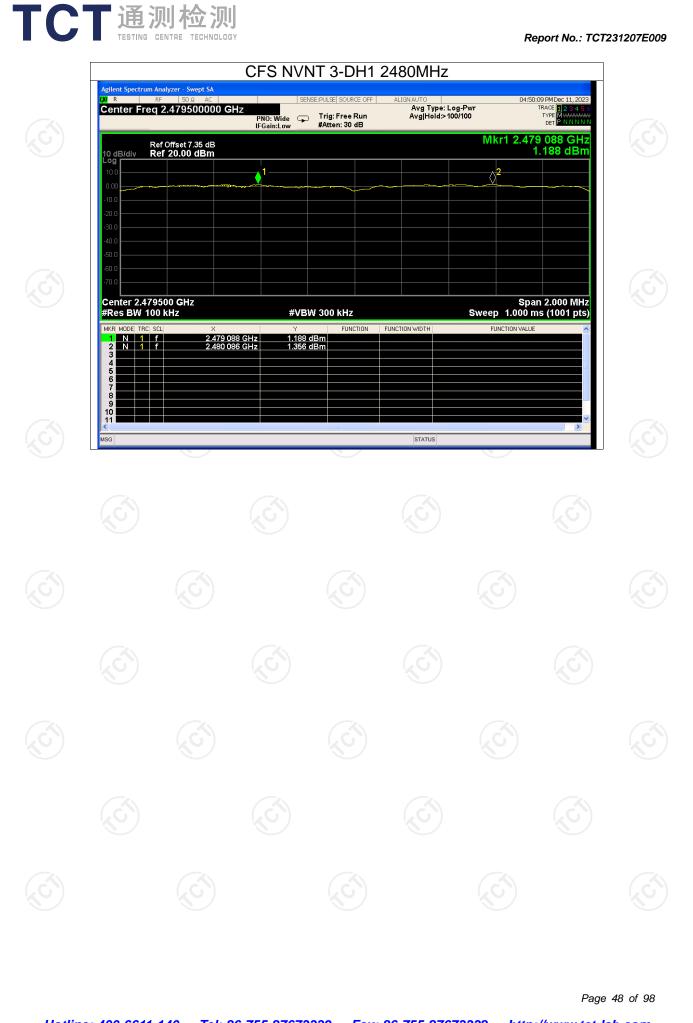


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Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-53.90	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-53.41	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-50.86	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-51.51	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-50.98	-20	Pass
NVNT 🔇	3-DH1	2480	No-Hopping	-51.31	-20	Pass

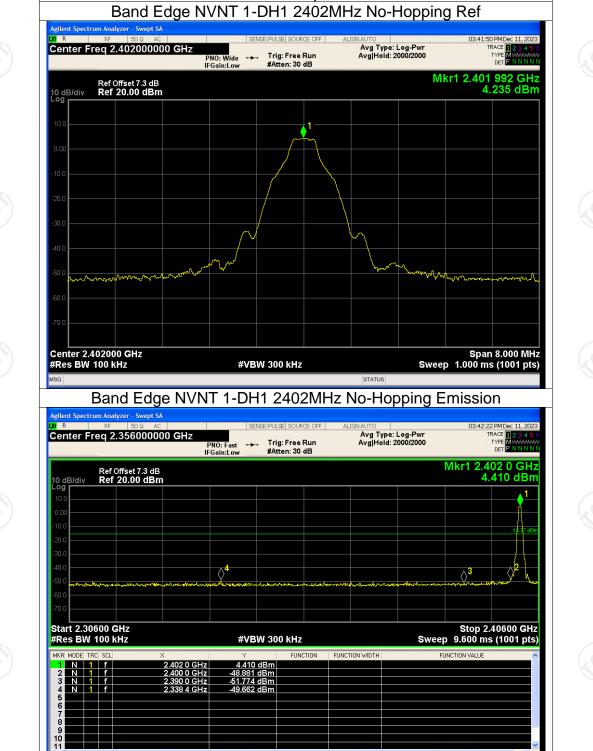
Band Edge							
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verd	
NVNT	1-DH1	2402	No-Hopping	-53.90	-20	Pas	
NVNT	1-DH1	2480	No-Hopping	-53.41	-20	Pas	
NVNT	2-DH1	2402	No-Hopping	-50.86	-20	Pas	
NVNT	2-DH1	2480	No-Hopping	-51.51	-20	Pas	



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STATUS



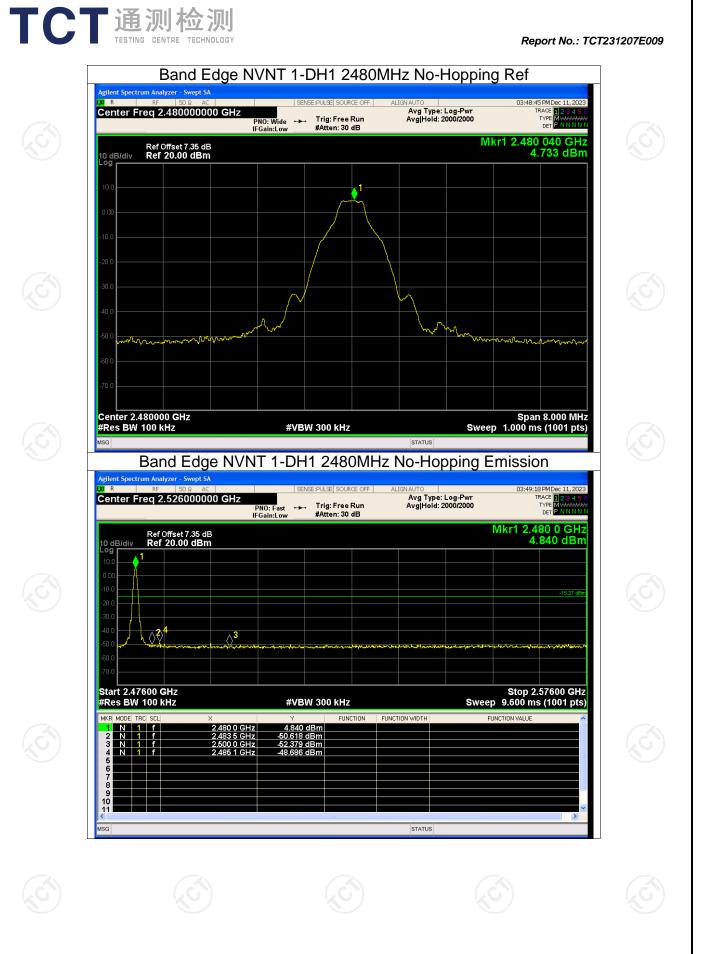
Test Graphs

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MSG

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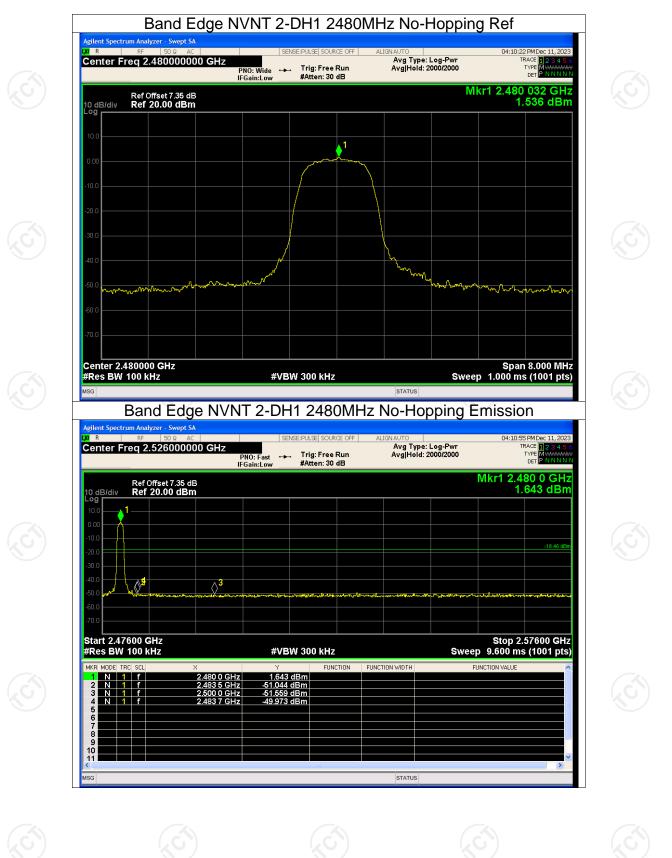
28 PM Dec 11, 2023 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Wide ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 040 GHz 0.421 dBm Ref Offset 7.3 dB Ref 20.00 dBm 10 dB/div Loa **1** m ham Center 2.402000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS Band Edge NVNT 2-DH1 2402MHz No-Hopping Emission Agilent Spectru SENSE:PULSE SOURCE OFF ALIGN AUTO Avg Type: Log-Pwr Tria: Free Run Avg|Hold: 2000/2000 04:05:00 PM Dec 11, 2023 TRACE 12 3 4 5 6 TYPE MWWWW DET P N N N N N K R Center Freq 2.356000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 0 GHz 0.630 dBm Ref Offset 7.3 dB Ref 20.00 dBm 10 dB/div Log **r** ₫4 \Diamond^3 $\sqrt{2}$ Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH MKB FUNCTION f f f 0.630 dBm -51.067 dBm -51.605 dBm -50.444 dBm 2.400 0 GHz 2.390 0 GHz 2.385 9 GHz 234567891011 1 NN SG STATUS





CT 通测检测 Band Edge NVNT 2-DH1 2402MHz No-Hopping Ref

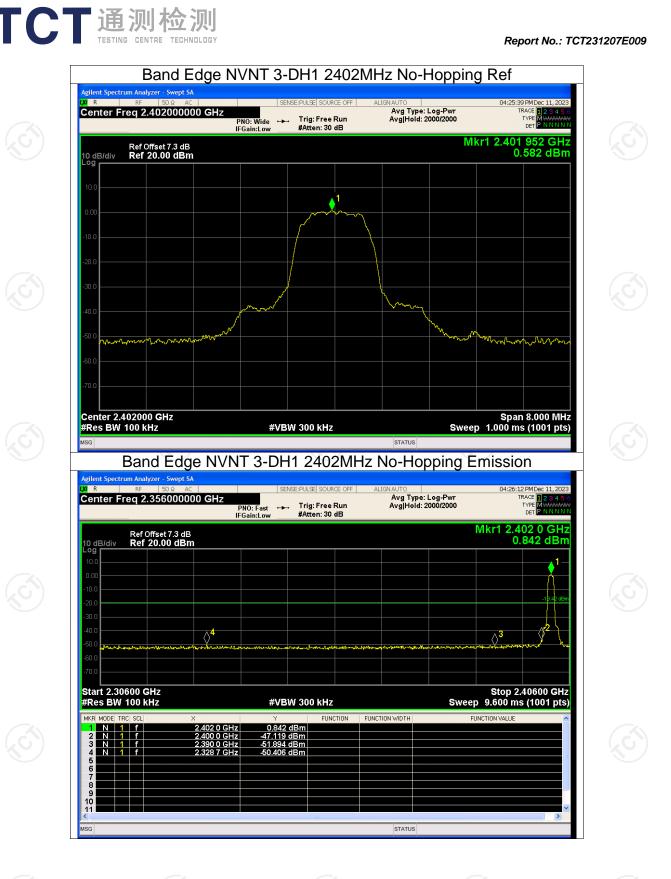
Report No.: TCT231207E009



FCT通测检测 TESTING CENTRE TECHNOLOGY

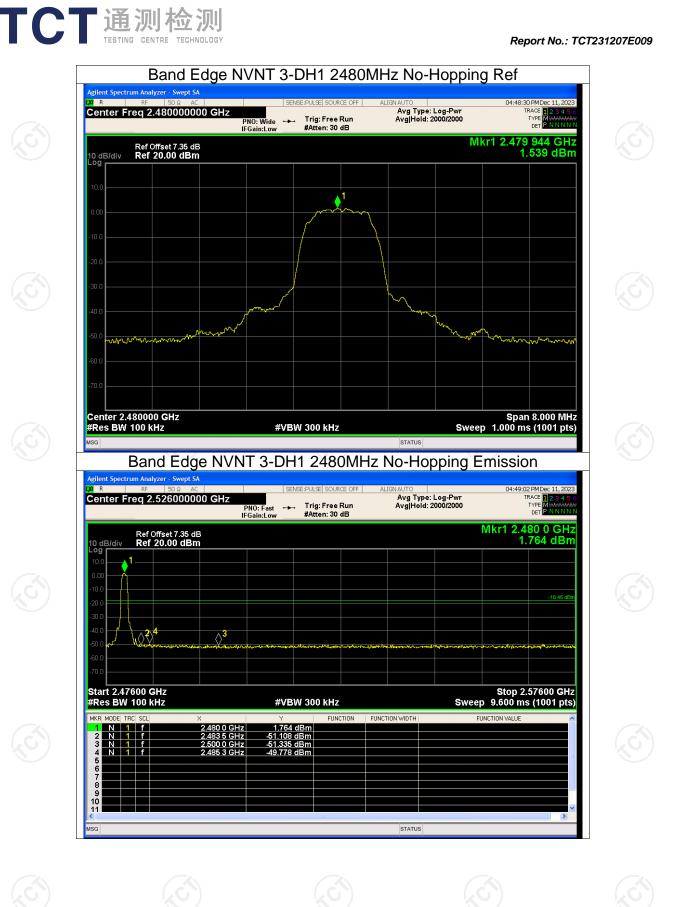
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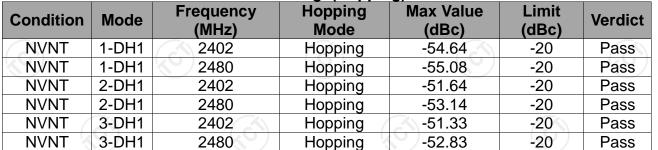


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Band Edge(Hopping)

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STATUS

Center Freg 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 6000/6000 🛶 Trig: Free Run PNO: Wide IFGain:Low #Atten: 30 dB Mkr1 2.401 832 GHz 4.566 dBm Ref Offset 7.3 dB Ref 20.00 dBm 10 dB/div Log √Ų M.M.M A Am Center 2.402000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Emission Agilent Spectrum Analyzer - Swept SA K/R 25 PM Dec 11, 2023 TRACE 123456 TYPE MWWWWW DET PNNNN PM Dec 11, 2023 Avg Type: Log-Pwr Avg|Hold: 6000/6000 Center Freq 2.356000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 0 GHz 4.419 dBm Ref Offset 7.3 dB Ref 20.00 dBm 10 dB/div Log 1 • \Diamond^3 \Diamond (Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION FUNCTION WIDTH FUNCTION VALUE N 1 f N 1 f N 1 f N 1 f N 1 f 4.419 dBn -51.074 dBn 0 GI 2 3 4 5 6 7 8 9 10 11 -52.046 dBm -50.073 dBm <u>2.390 0 GHz</u> 2.376 2 GHz

Test Graphs Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Ref

PULSE SOURCE OFF

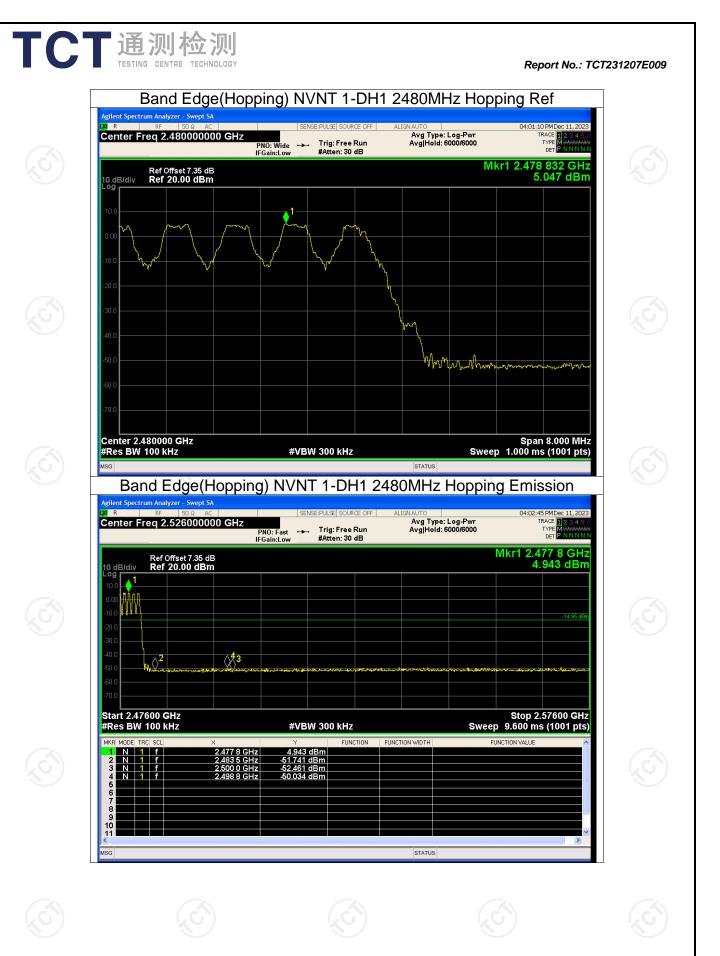


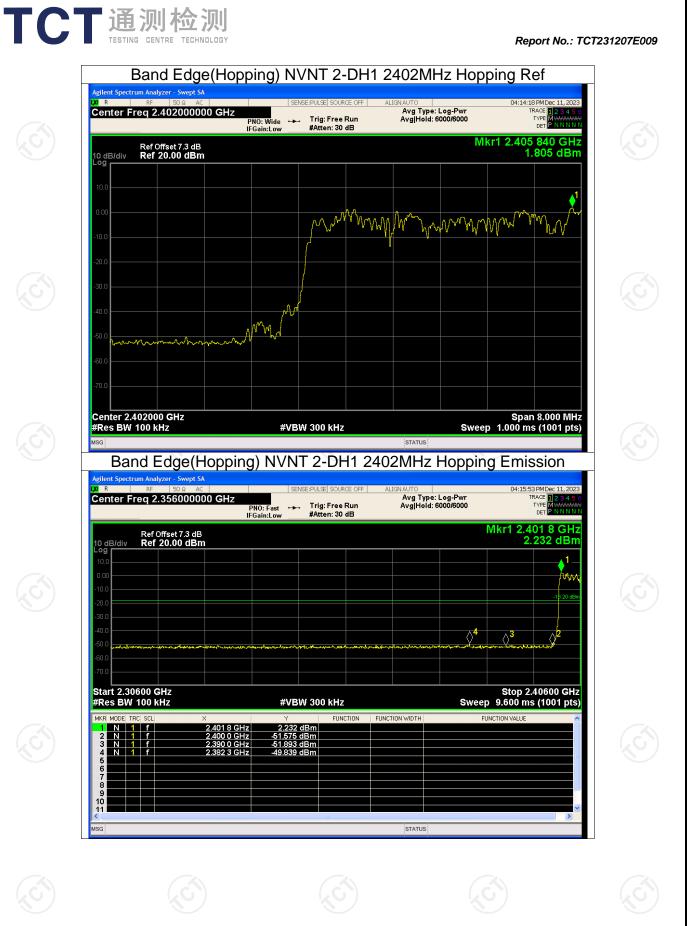
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50 PM Dec 11, 2 TRACE







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