	TEST REP	ORT				
FCC ID :	2ALNA-BTH20					
Test Report No:	TCT240531E004					
Date of issue:	Jun. 11, 2024					
Testing laboratory::	SHENZHEN TONGCE TE	ESTING LAB				
Testing location/ address:		Factory Renshan Industrial t, Shenzhen, Guangdong, 5 a				
Applicant's name: :	Shenzhen Thousandshor	es Technology Co., Ltd.				
Address:	Room 1101, Building B, Lotus Plaza, No. 3186 Nanshan Avenue, Majialong Community, Nantou Street, Nanshan District, Shenzhen, China					
Manufacturer's name :	Shenzhen Thousandshor	es Technology Co., Ltd.				
Address:	Room 1101, Building B, Lotus Plaza, No. 3186 Nanshan Avenue, Majialong Community, Nantou Street, Nanshan District, Shenzhen, China					
Standard(s):		5 Subpart C Section 15.247 5.247 Meas Guidance v05r0	2			
Product Name::	Wireless Headphones					
Trade Mark:	iClever					
Model/Type reference :	BTH20					
Rating(s):	Rechargeable Li-ion Batte	ery DC 3.7V				
Date of receipt of test item	May 31, 2024					
Date (s) of performance of test:	May 31, 2024 ~ Jun. 11, 2	2024				
Tested by (+signature) :	Onnado YE	Onnaa Dengeer				
Check by (+signature) :	Beryl ZHAO	Boyle	STING			
Approved by (+signature):	Tomsin	Comsites 3				

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TCT 通测检测 TESTING CENTRE TECHNOLOGY

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## **1. General Product Information**

### 1.1. EUT description

Product Name:	Wireless Headphones	
Model/Type reference:	BTH20	
Sample Number	TCT240531E004-0101	
Bluetooth Version:	V5.4	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	$\langle \mathcal{C} \rangle$
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	Chip Antenna	
Antenna Gain:	3.5dBi	KC)
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



## 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
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		(.c)

Remark: Channel 0, 39 & 78 have been tested for GFSK,  $\pi$ /4-DQPSK, 8DPSK modulation mode.

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## 2. Test Result Summary

Requirement	Requirement 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.

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## 3. General Information

## 3.1. Test environment and mode

Operating Environment:						
Condition	Conducted Emission Radiated Emission					
Temperature:	22.8 °C	24.9 °C				
Humidity:	49 % RH	50 % RH				
Atmospheric Pressure:	1010 mbar	1010 mbar				
Test Software:						
Software Information: FCC_assist_1.0.2.2						
Power Level:	10					
Test Maria						

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.

DH1 DH3 DH5 all have been tested, only worse case DH1 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	/	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.

## FCT 通测检测 TESTING CENTRE TECHNOLOGY

## 4. Facilities and Accreditations

## 4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

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

### IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

## 4.2. Location

### SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

## 4.3. Measurement Uncertainty

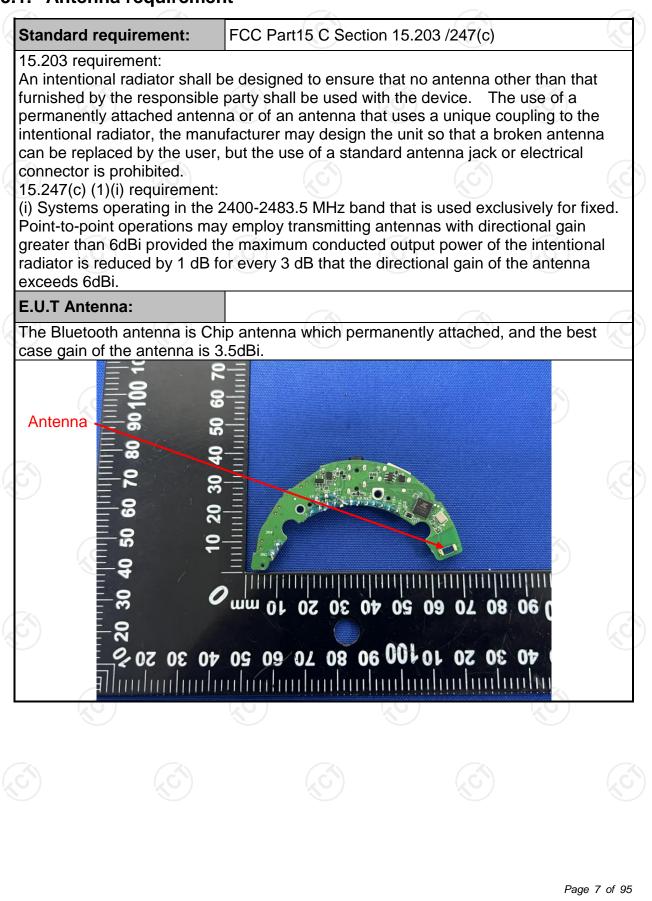
The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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



## 5. Test Results and Measurement Data

### 5.1. Antenna requirement





### 5.2. Conducted Emission

### 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207					
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range	Limit (	dBuV)				
	(MHz)	Quasi-peak	Average				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Referenc	e Plane					
Test Setup:	40cm E.U.T AC powe	r 80cm LISN	_				
	Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	EMI Receiver	r ॓ ─ AC power				
Test Mode:	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m Charging + Transmittir	etwork					
Test Mode: Test Procedure:	Remark: E.UT: Equipment Under Test LISN Line Impedence Stabilization N Test table height=0.8m Charging + Transmittin 1. The E.U.T is conner impedance stabiliz provides a 500hm/s measuring equipme 2. The peripheral device power through a Li coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative the interface cables	etwork EMI Receiver etwork ag Mode acted to an adapte acted to an adapte action network 50uH coupling im nt. ces are also conner SN that provides a with 50ohm term diagram of the line are checked ince. In order to find e positions of equal must be changed	er through a line (L.I.S.N.). This pedance for the ected to the main s a 50ohm/50uh nination. (Please test setup and test setup and ed for maximun nd the maximun ipment and all o l according to				
	Remark: E.U.T. Equipment Under Test LISN Line Impedence Stabilization N Test table height=0.8m Charging + Transmittin 1. The E.U.T is conner impedance stabiliz provides a 50ohm/s measuring equipme 2. The peripheral device power through a Li coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative	etwork EMI Receiver etwork ag Mode acted to an adapte acted to an adapte action network 50uH coupling im nt. ces are also conner SN that provides a with 50ohm term diagram of the line are checked ince. In order to find e positions of equal must be changed	er through a line (L.I.S.N.). This pedance for the ected to the main s a 50ohm/50uh nination. (Please test setup and test setup and ed for maximun nd the maximun ipment and all o l according to				



#### 5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment         Manufacturer         Model         Serial Number         Date of Cal.         Calib D							
EMI Test Receiver	R&S	ESCI3	100898	Jun. 30, 2023	Jun. 29, 2024		
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 01, 2024	Jan. 31, 2025		
Line-5	ТСТ	CE-05	/	Jul. 04, 2023	Jul. 03, 2024		
EMI Test Software	Shurple Technology	EZ-EMC	/		10		









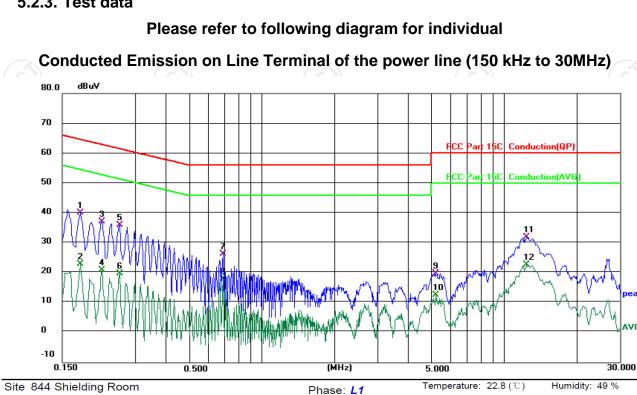


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#### 5.2.3. Test data

Report No.: TCT240531E004





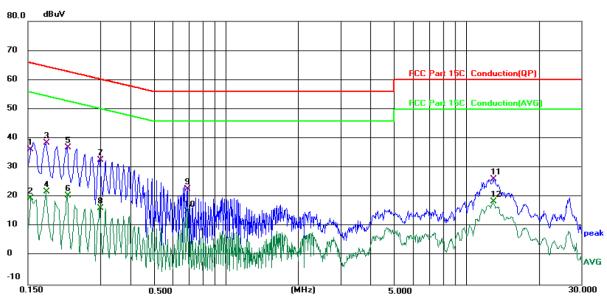
Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Limit: FCC Part 15C Conduction(QP)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1779	29.97	10.03	40.00	64.58	-24.58	QP	
2		0.1779	12.87	10.03	22.90	54.58	-31.68	AVG	
3		0.2179	27.39	9.84	37.23	62.90	-25.67	QP	
4		0.2179	11.05	9.84	20.89	52.90	-32.01	AVG	
5		0.2580	26.12	9.85	35.97	61.50	-25.53	QP	
6		0.2580	9.91	9.85	19.76	51.50	-31.74	AVG	
7		0.6900	17.25	9.17	26.42	56.00	-29.58	QP	
8		0.6900	8.91	9.17	18.08	46.00	-27.92	AVG	
9		5.2220	9.40	10.42	19.82	60.00	-40.18	QP	
10		5.2220	2.18	10.42	12.60	50.00	-37.40	AVG	
11		12.4420	21.36	10.64	32.00	60.00	-28.00	QP	
12		12.4420	12.06	10.64	22.70	50.00	-27.30	AVG	

#### 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)

#### Site 844 Shielding Room Phase: N Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Limit: FCC Part 15C Conduction(QP)

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No. N	٨k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	26.15	10.00	36.15	65.79	-29.64	QP	
2		0.1539	9.61	10.00	19.61	55.79	-36.18	AVG	
3		0.1780	28.57	10.01	38.58	64.58	-26.00	QP	
4		0.1780	11.87	10.01	21.88	54.58	-32.70	AVG	
5 *	*	0.2180	27.19	9.82	37.01	62.89	-25.88	QP	
6		0.2180	10.77	9.82	20.59	52.89	-32.30	AVG	
7		0.2980	22.81	9.83	32.64	60.30	-27.66	QP	
8		0.2980	6.35	9.83	16.18	50.30	-34.12	AVG	
9		0.6900	13.66	9.14	22.80	56.00	-33.20	QP	
10		0.6900	5.89	9.14	15.03	46.00	-30.97	AVG	
11	1	2.9340	15.54	10.62	26.16	60.00	-33.84	QP	
12	1	2.9340	7.82	10.62	18.44	50.00	-31.56	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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Humidity: 49 %

Temperature: 22.8 (℃)



## 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	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/	/



## 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:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>Measure and record the results in the test report.</li> </ol>					
Test Result:	PASS					

#### 5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	1	1	



## 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 channe carrier frequencies separated by a minimum of 25 kHz o 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:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>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.</li> <li>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.</li> </ol>

#### 5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/	/

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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:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>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.</li> <li>The number of hopping frequency used is defined as the number of total channel.</li> <li>Record the measurement data in report.</li> </ol>
Test Result:	PASS
562 Test Instruments	

#### 5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	1	1 (	<u>د</u> ۱

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Test Procedure:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>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 &gt;&gt; 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.</li> <li>Measure and record the results in the test report.</li> </ol>

FCC Part15 C Section 15.247 (a)(1)

The average time of occupancy on any channel shall not

-0

EUT

seconds multiplied by the number of hopping channels

be greater than 0.4 seconds within a period of 0.4

KDB 558074 D01 v05r02

employed.

PASS

Spectrum Analyzer

Hopping mode

### 5.7. Dwell Time

**Test Method:** 

Test Setup:

**Test Mode:** 

Limit:

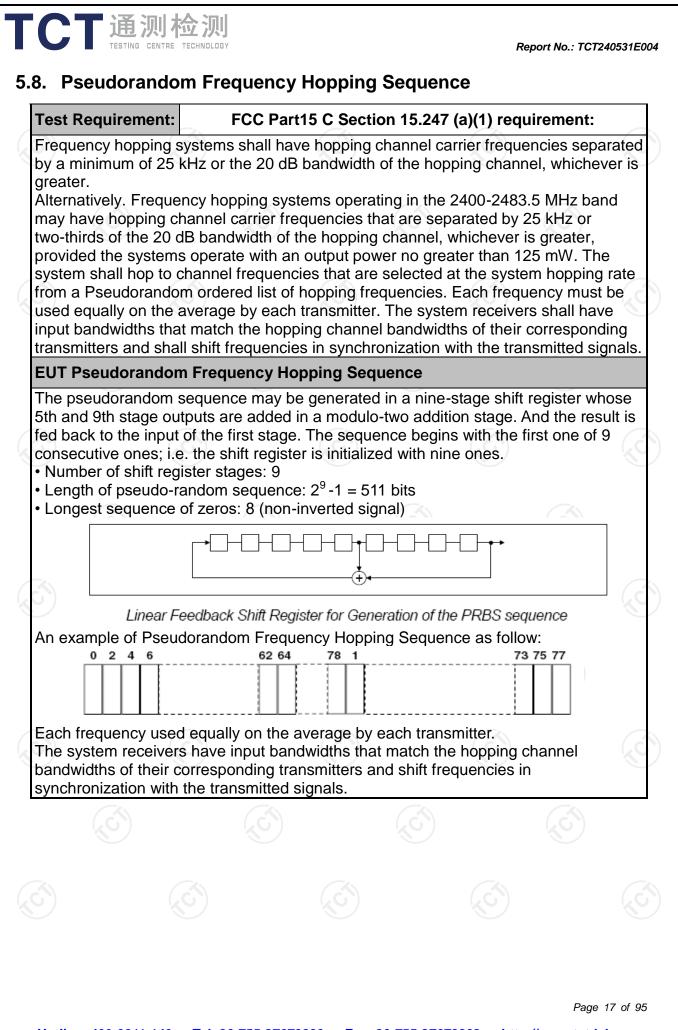
#### 5.7.1. Test Specification

**Test Requirement:** 

# Test Result:

### 5.7.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB		/	$\mathfrak{O}$ ,





## 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 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:	<ol> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

#### 5.9.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	1	1	S 1



## 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:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test Result:	PASS

#### 5.10.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 29, 2023	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	, ©	1	$\bigcirc$ $\square$

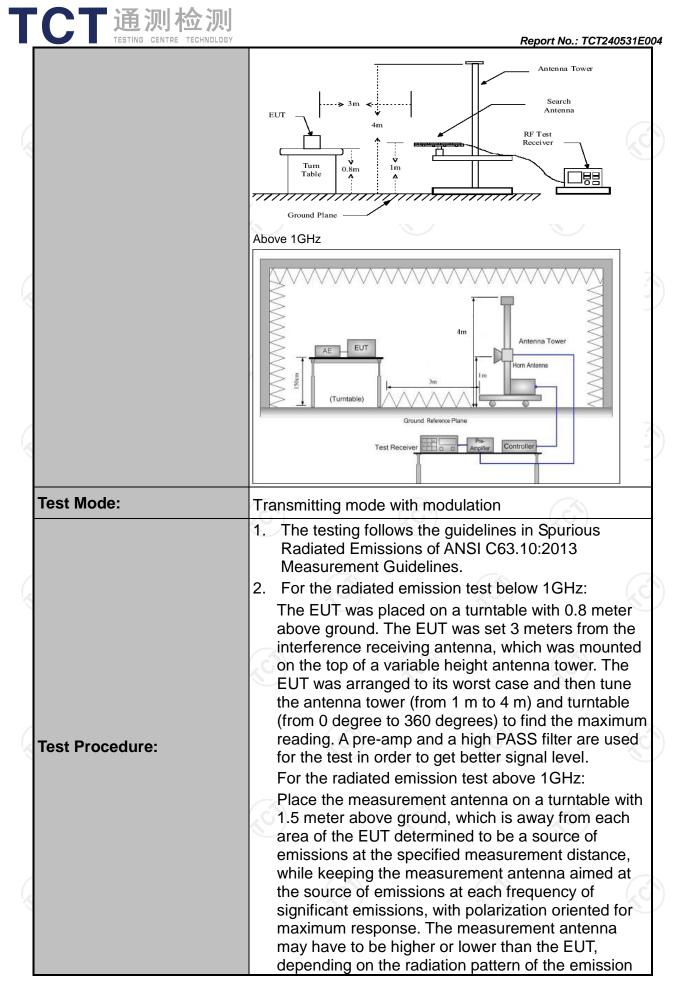


## 5.11. Radiated Spurious Emission Measurement

#### 5.11.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

X			
)			
emark			
peak Value			
peak Value			
peak Value			
k Value			
age Value			
surement			
ce (meters)			
300 30			
30			
30			
3			
3			
3			
Detector Average Peak			



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	receivi measu maxim antenr restrict above 3. Set to EUT t 4. Use th (1) S er (2) S fo (3) F	aying aimed at the ing the maximum s urement antenna e nizes the emissions ha elevation for ma ted to a range of h the ground or refe to the maximum po the following spectr pan shall wide end mission being mea et RBW=120 kHz or f>1GHz ; VBW≥I Sweep = auto; Det = max hold for pea For average measu correction factor m 5.35(c). Duty cycle on time =N1*L1+N2	e emission source signal. The final elevation shall be s. The measure aximum emission heights of from 1 erence ground p ower setting and sly. for manalyzer se bugh to fully cap asured; for f < 1 GHz, R RBW; ector function = k urement: use du ethod per s = On time/100	e that which ment ins shall be m to 4 m plane. d enable the attings: ature the BW=1MHz BW=1MHz peak; Trace uty cycle milliseconds
		Where N1 is numb ength of type 1 pu Average Emission _evel + 20*log(Dut orrected Reading:	lses, etc. Level = Peak E y cycle) Antenna Factor	mission r + Cable
Test results:		Where N1 is numb ength of type 1 pu Average Emission _evel + 20*log(Dut	lses, etc. Level = Peak E y cycle) Antenna Factor	mission r + Cable
Test results:		Where N1 is numb ength of type 1 pu Average Emission _evel + 20*log(Dut orrected Reading:	lses, etc. Level = Peak E y cycle) Antenna Factor	mission r + Cable
Test results:		Where N1 is numb ength of type 1 pu Average Emission _evel + 20*log(Dut orrected Reading:	lses, etc. Level = Peak E y cycle) Antenna Factor	mission r + Cable
Test results:		Where N1 is numb ength of type 1 pu Average Emission _evel + 20*log(Dut orrected Reading:	lses, etc. Level = Peak E y cycle) Antenna Factor	mission r + Cable



#### 5.11.2. Test Instruments

	R	adiated Emissi	on Test Site (9	66)	
Name of Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 30, 2023	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 30, 2023	Jun. 29, 2024
Pre-amplifier	SKET	LNPA_0118G- 45	SK20210121 02	Feb. 01, 2024	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK20210920 3500	Feb. 01, 2024	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 28, 2023	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 03, 2023	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 02, 2023	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 02, 2023	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 03, 2024	Feb. 02, 2025
Antenna Mast	Keleto	RE-AM	/		1
Coaxial cable	SKET	RC-18G-N-M	1	Feb. 01, 2024	Jan. 31, 2025
Coaxial cable	SKET	RC_40G-K-M	10	Feb. 01, 2024	Jan. 31, 2025
EMI Test Software	Shurple Technology	EZ-EMC	/		1

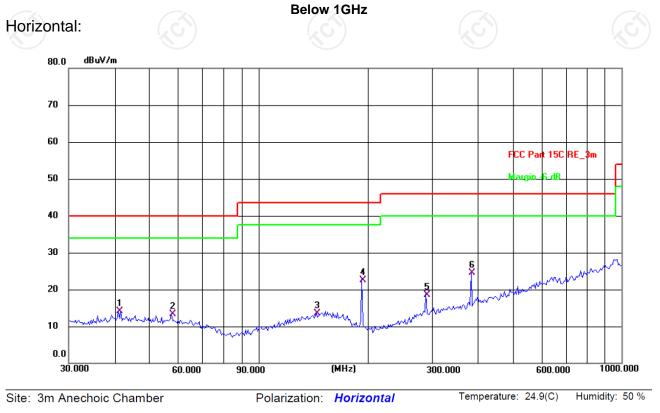




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#### 5.11.3. Test Data

#### Please refer to following diagram for individual



Limit: FCC Part 15C RE 3m

Power: DC 3.7 V

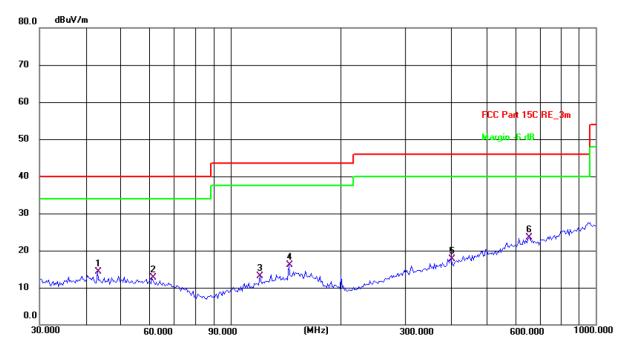
	001 4101001									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark	
1	41.1320	26.43	-12.29	14.14	40.00	-25.86	QP	Ρ		
2	57.5939	26.26	-12.88	13.38	40.00	-26.62	QP	Ρ		
3	144.3348	25.29	-11.71	13.58	43.50	-29.92	QP	Ρ		
4 *	192.4186	36.32	-13.91	22.41	43.50	-21.09	QP	Ρ		
5	289.0021	29.09	-10.59	18.50	46.00	-27.50	QP	Ρ		
6	385.2805	33.03	-8.62	24.41	46.00	-21.59	QP	Ρ		
 									1	

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#### Vertical:



Site: 3	8m Anechoic C	Chamber		Polari	Temperature: 2	24.9(C)	Humidity:	50 %				
Limit:	FCC Part 15C F	RE_3m				Power:						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark			
1	43.2017	26.84	-12.55	14.29	40.00	-25.71	QP	Ρ				
2	60.9176	25.71	-13.08	12.63	40.00	-27.37	QP	Ρ				
3	120.2766	26.38	-13.24	13.14	43.50	-30.36	QP	Р				
4	144.3348	27.74	-11.71	16.03	43.50	-27.47	QP	Ρ				
5	401.8385	26.00	-8.23	17.77	46.00	-28.23	QP	Р				
6 *	656.5300	26.61	-3.19	23.42	46.00	-22.58	QP	Р				

**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.

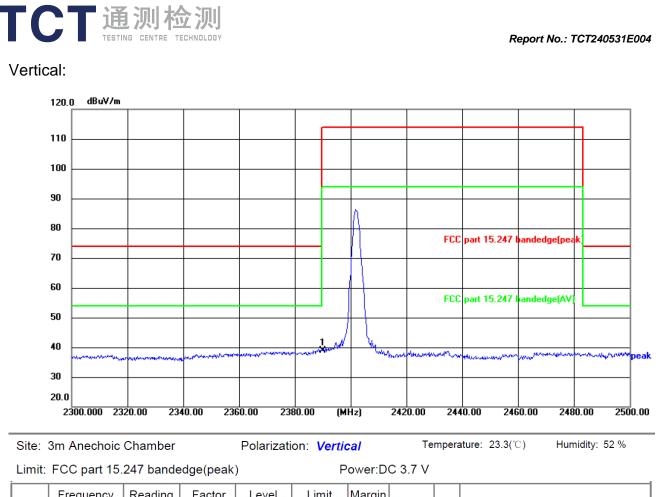
2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Highest channel and 8DPSK) was submitted only.

- 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.

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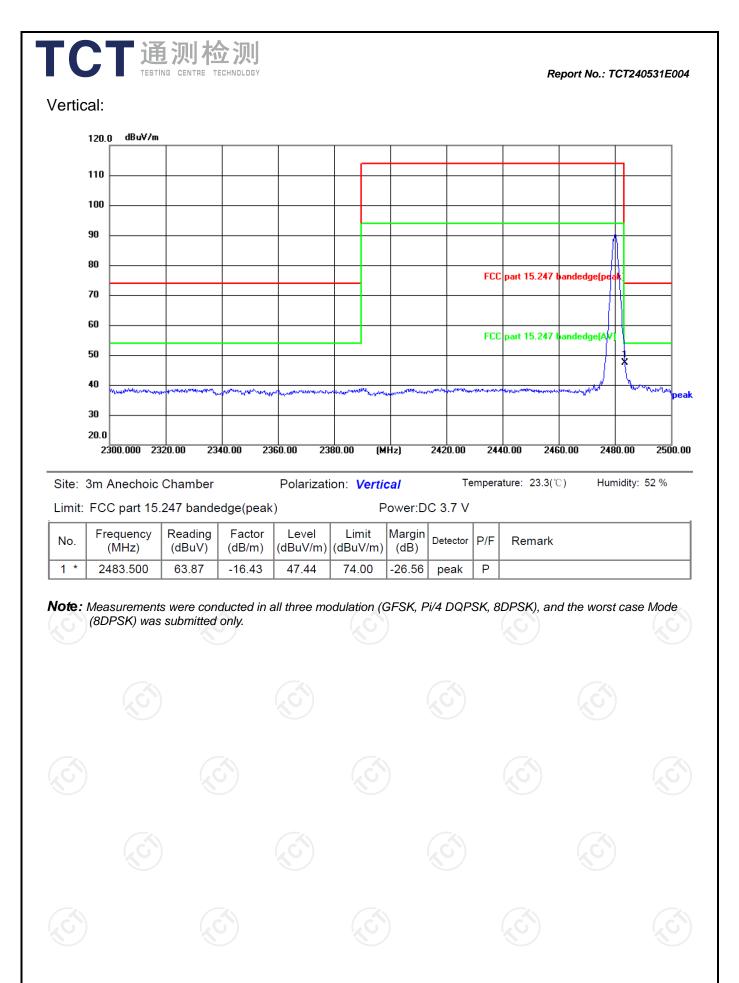
Report No.: TCT240531E004 Test Result of Radiated Spurious at Band edges Lowest channel 2402: Horizontal: 120.0 dBuV/m 110 100 90 80 FCC part 15.247 bandedge(pea 70 60 FCC part 15.247 bandedge(AV) 50 40 30 20.0 2300.000 2320.00 2340.00 2360.00 2380.00 2420.00 2460.00 2480.00 2500.00 (MHz) 2440.00 Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.3(℃) Humidity: 52 % Limit: FCC part 15.247 bandedge(peak) Power:DC 3.7 V Factor Reading Limit Frequency Level Margin Detector P/F No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 \* 2390.000 54.87 -16.53 38.34 74.00 -35.66 peak Ρ Page 26 of 95



No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	55.51	-16.53	38.98	74.00	-35.02	peak	Ρ	



Report No.: TCT240531E004 Highest channel 2480: Horizontal: 120.0 dBu¥/m 110 100 90 80 FCC part 15.247 bandedge(pea 70 60 FCC part 15.247 bandedge(AV 50 40 eak we many ent and the second second 30 20.0 2300.000 2320.00 2340.00 2360.00 2380.00 (MHz) 2420.00 2440.00 2460.00 2480.00 2500.00 Site: 3m Anechoic Chamber Temperature: 23.3(℃) Humidity: 52 % Polarization: Horizontal Limit: FCC part 15.247 bandedge(peak) Power:DC 3.7 V Level Limit Frequency Reading Factor Margin P/F Detector Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 2483.500 63.67 -16.43 1 \* 47.24 74.00 -26.76 peak Ρ Page 28 of 95



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#### Above 1GHz

Modulation	Type: 8D	PSK							
Low channe	el: 2402 N	IHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	45.02		0.66	45.68		74	54	-8.32
7206	Н	36.46		9.50	45.96		74	54	-8.04
	Н					~~~			
(	<b>C</b>		J.J	<ul> <li>)</li> </ul>	()	· ()		$(\mathcal{O})$	
4804	V	45.09		0.66	45.75		74	54	-8.25
7206	V	34.46		9.50	43.96		74	54	-10.04
	V								

Middle cha	nnel: 2441	MHz			)		KO)		X
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4882	Н	44.73		0.99	45.72	<u> </u>	74	54	-8.28
7323	KOH)	35.48	1,0	9.87	45.35		74	54	-8.65
	Ĥ								
4882	V	44.18		0.99	45.17		74	54	-8.83
7323	V	34.01		9.87	43.88		74	54	-10.12
	V			X	/				

#### High channel: 2480 MHz

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r ngri charn	ICI. 2400 I	VII 12								
Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	AV/ limit	Margin	
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)			(dBµV/m)	(dB)	
4960	Н	45.26		1.33	46.59		74	54	-7.41	
7440	Н	36.59		10.22	46.81		74	54	-7.19	
	Н									
G)		(G)		(.0			(.G)		0.0	
4960	V	44.74		1.33	46.07		74	54	-7.93	
7440	V	35.11		10.22	45.33		74	54	-8.67	
	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 $\mu$ 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	-0.01	30	Pass	
	NVNT	1-DH1	2441	1.42	30	Pass	
	NVNT	1-DH1	2480	2.38	30	Pass	
	NVNT	2-DH1	2402	0.71	21	Pass	
	NVNT	2-DH1	2441	2.11	21	Pass	
	NVNT	2-DH1	2480	3.06	21	Pass	
	NVNT	3-DH1	2402	1.30	21	Pass	
	NVNT	3-DH1	2441	2.58	21	Pass	
	NVNT	3-DH1	2480	3.48	21	Pass	









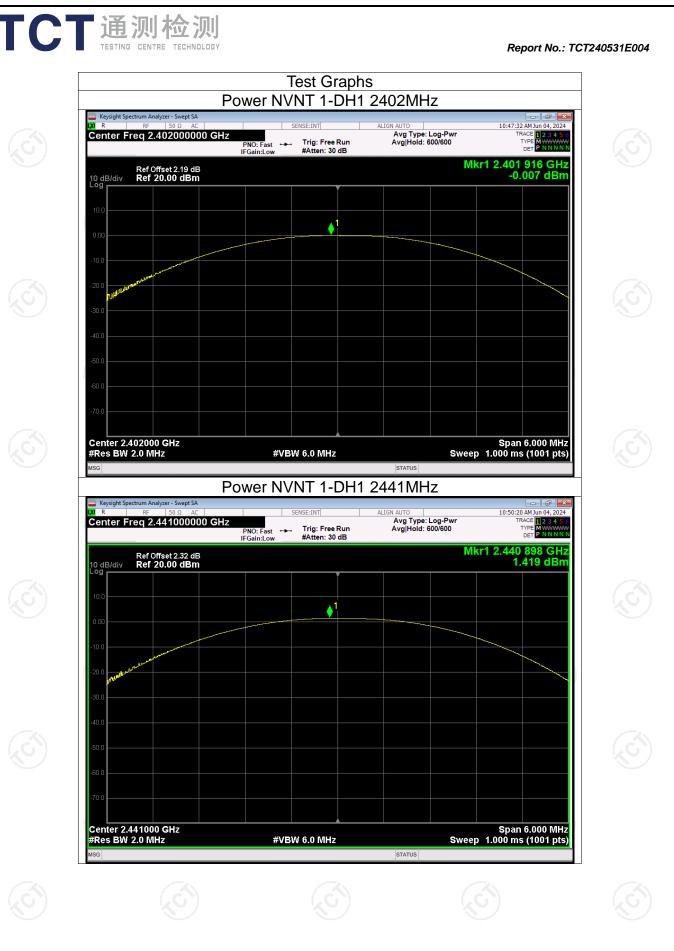


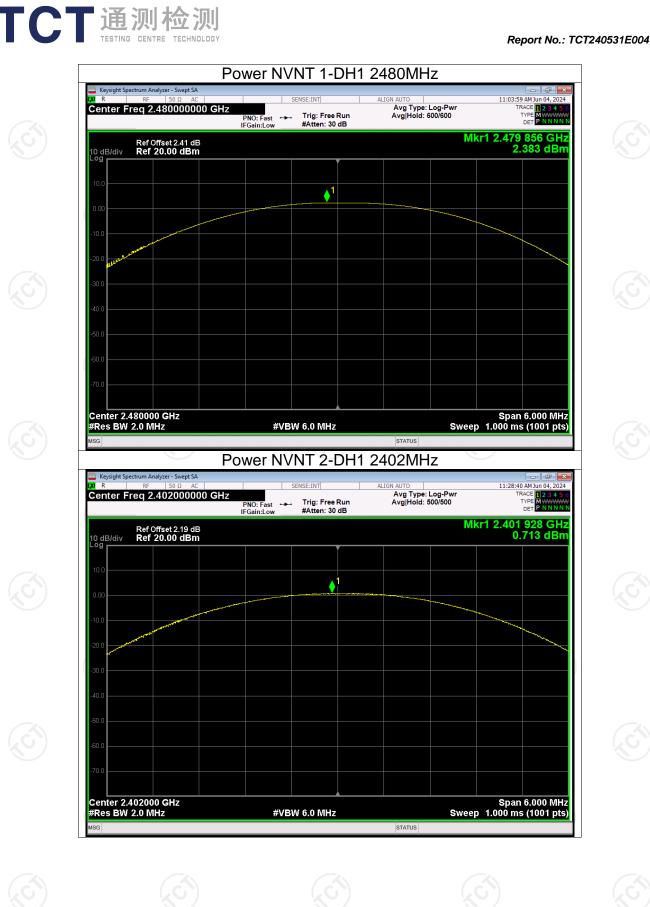


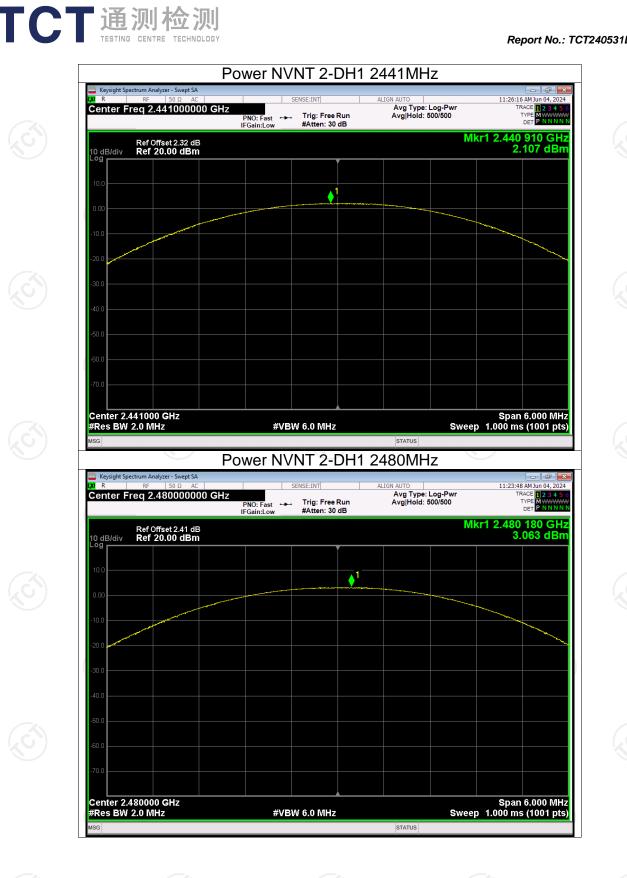


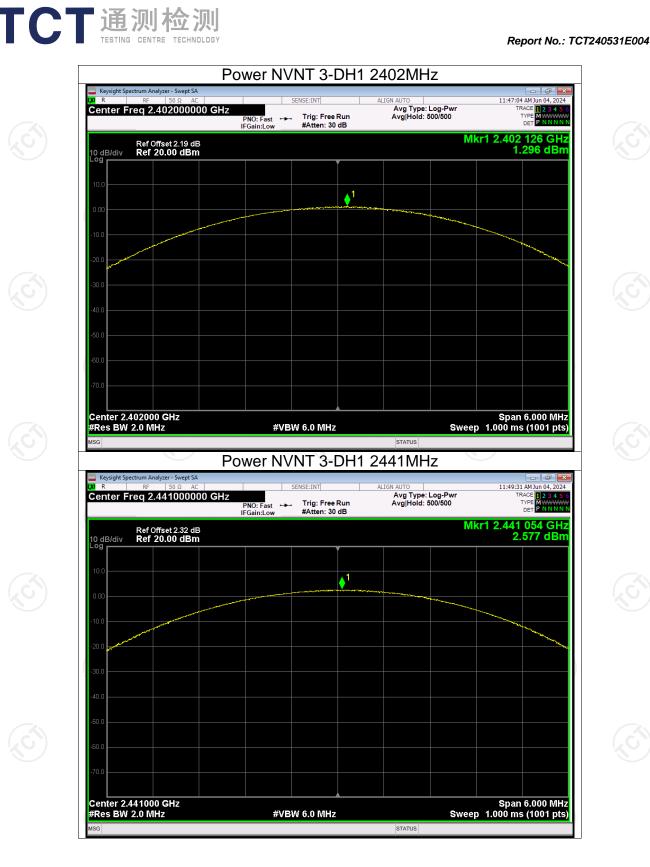
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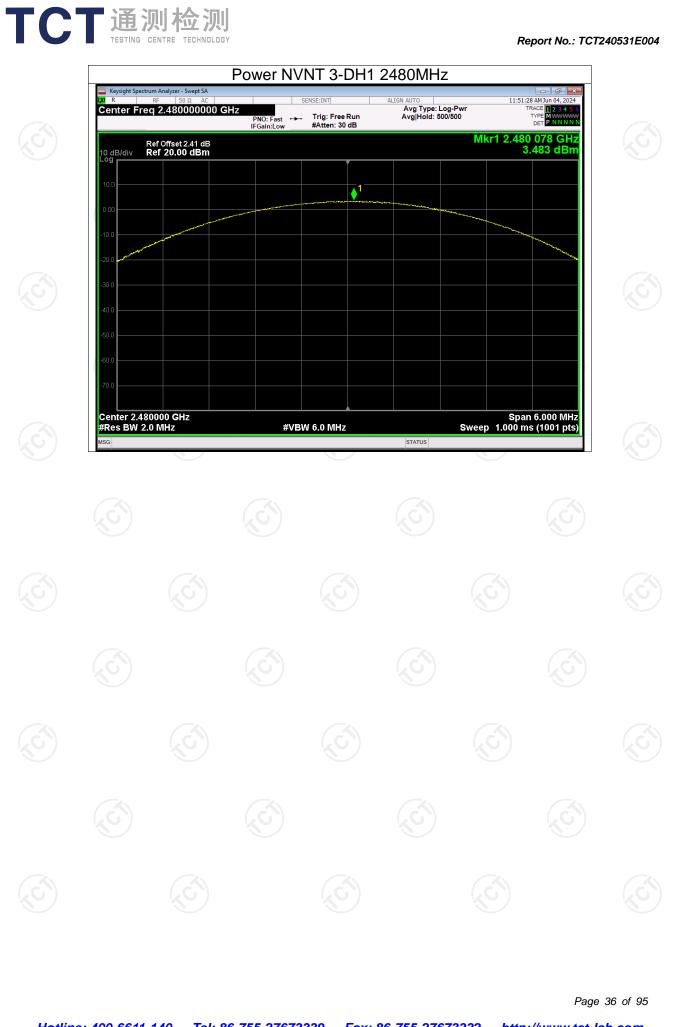








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		LUGB Build	WIMCII	
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.880	Pass
NVNT 🚫	1-DH1	2441	0.877	Pass
NVNT	1-DH1	2480	0.879	Pass
NVNT	2-DH1	2402	1.255	Pass
NVNT	2-DH1	2441	1.255	Pass
NVNT	2-DH1	2480	1.254	Pass
NVNT	3-DH1	2402	1.246	Pass
NVNT	3-DH1	2441	1.218	Pass
NVNT	3-DH1	2480	1.223	Pass















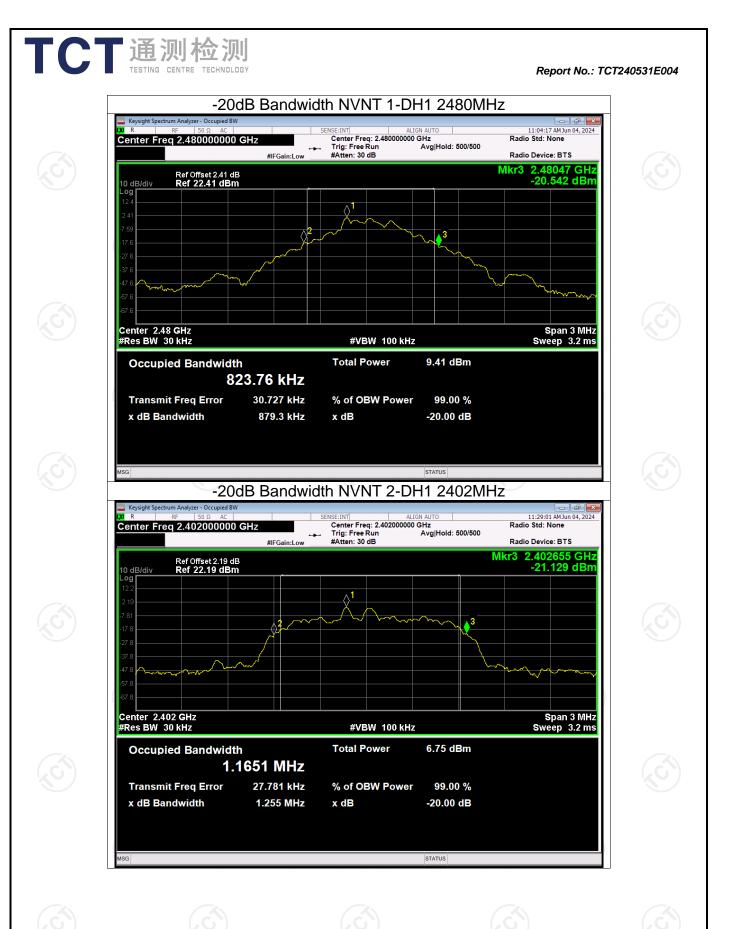




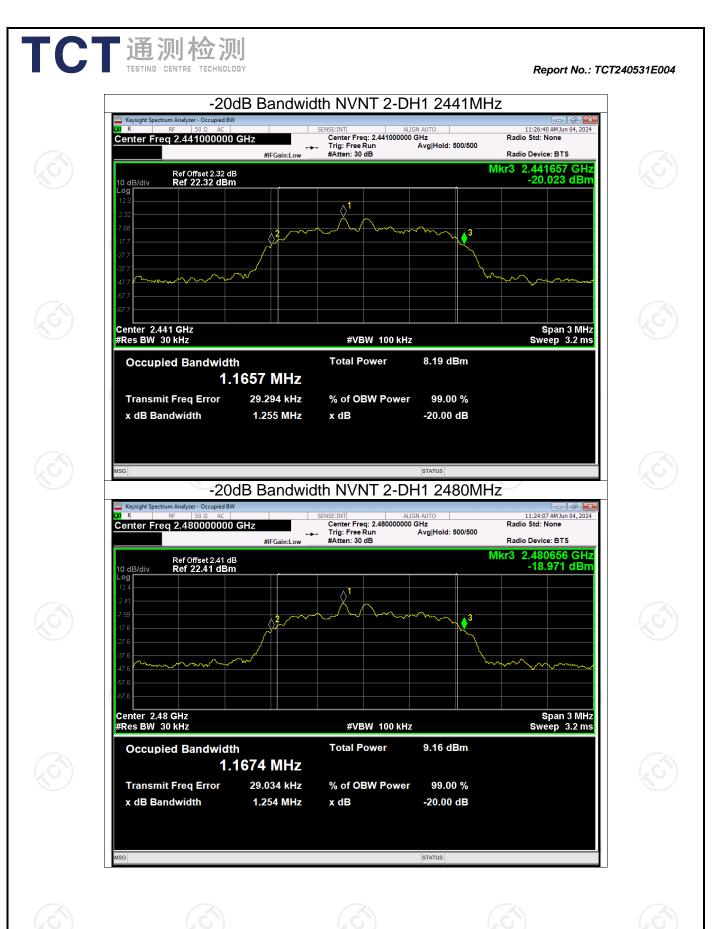
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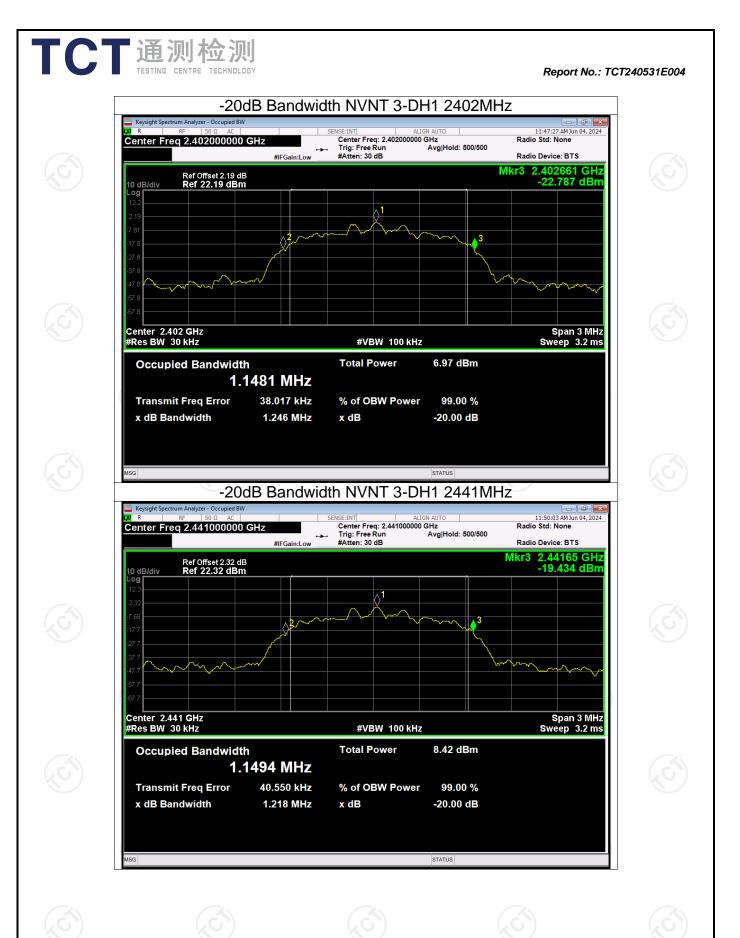


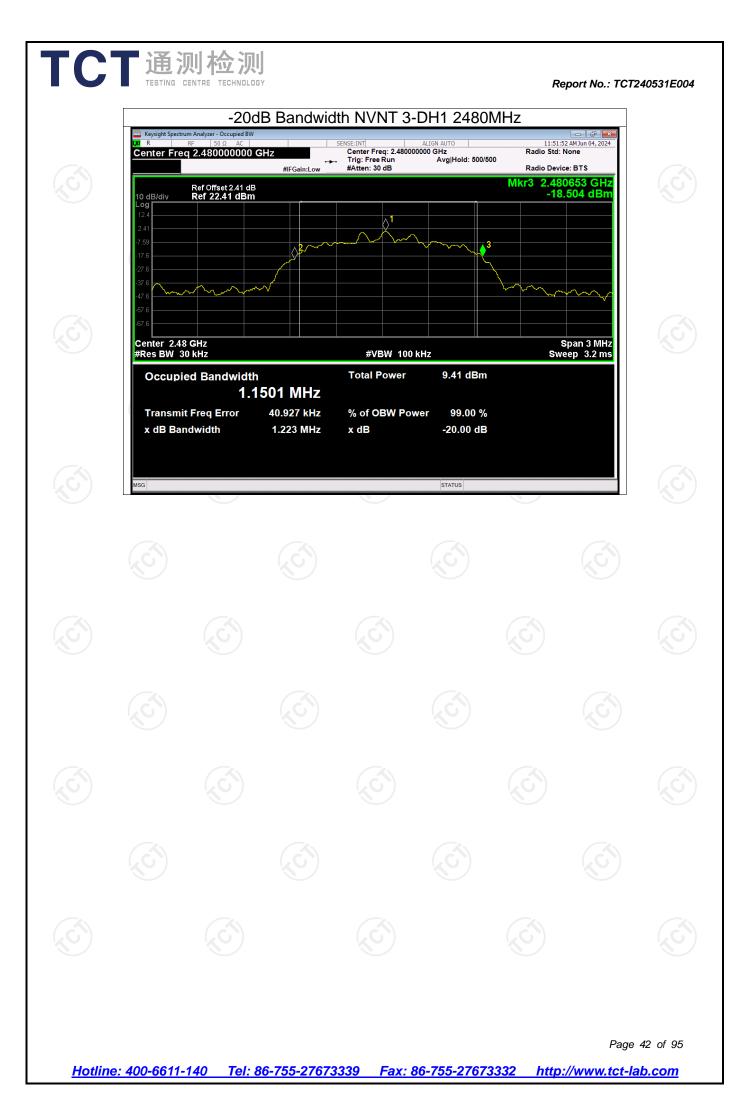


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# **Carrier Frequencies Separation**

# 

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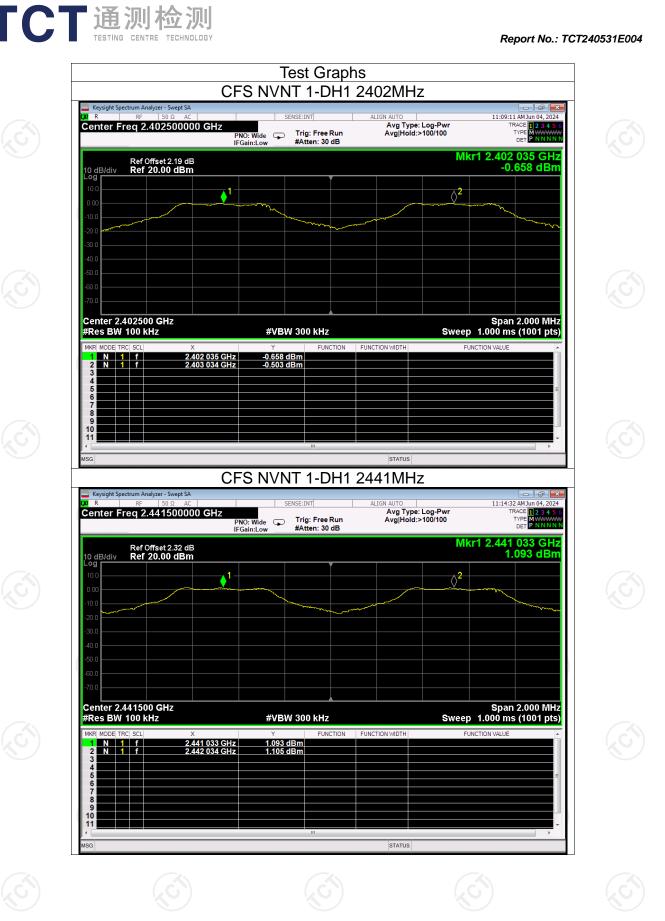




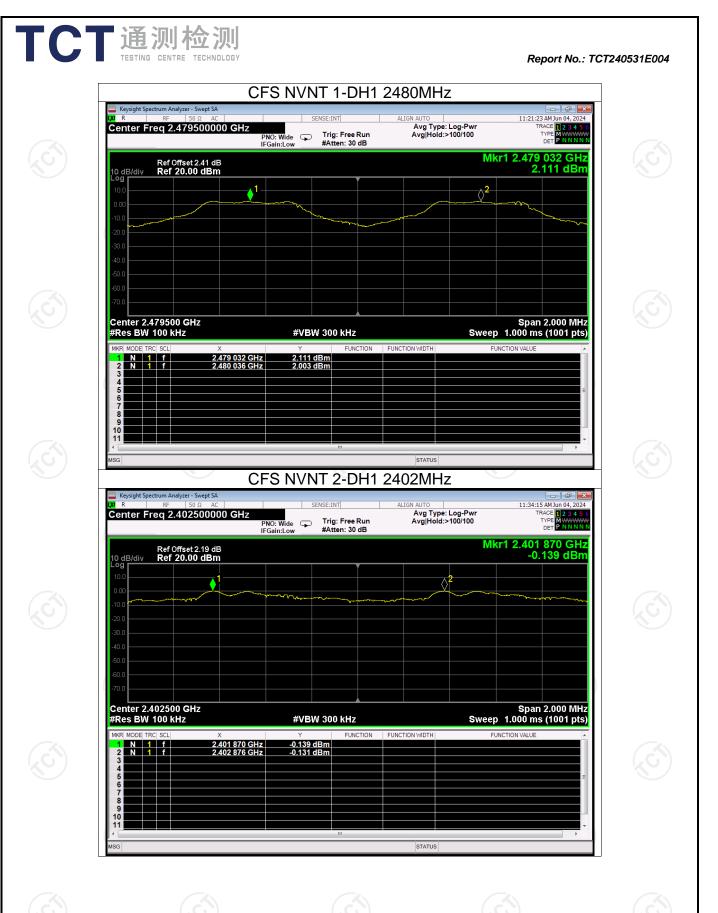




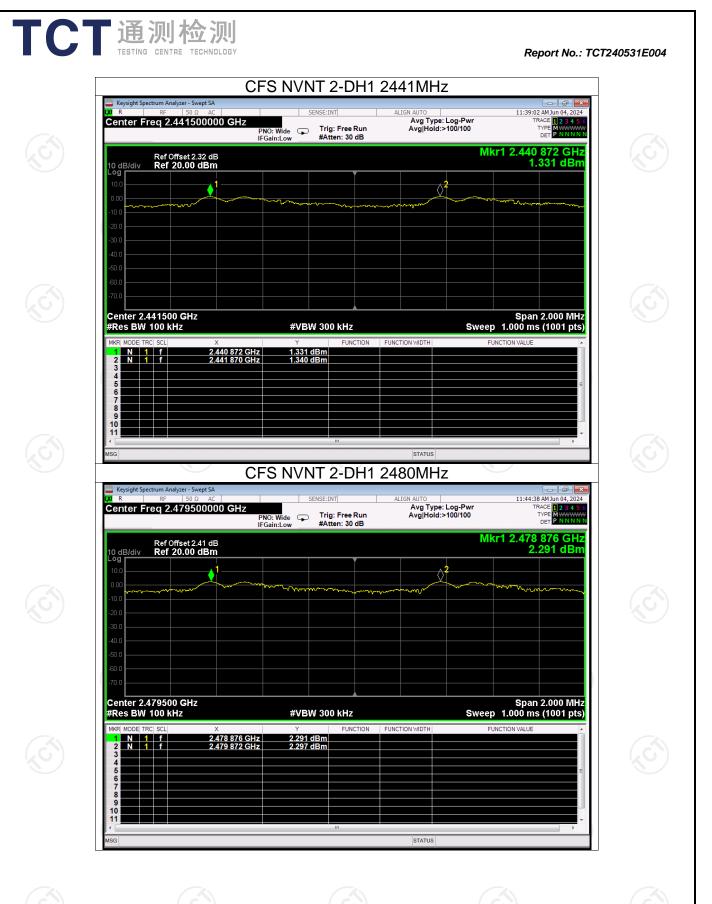
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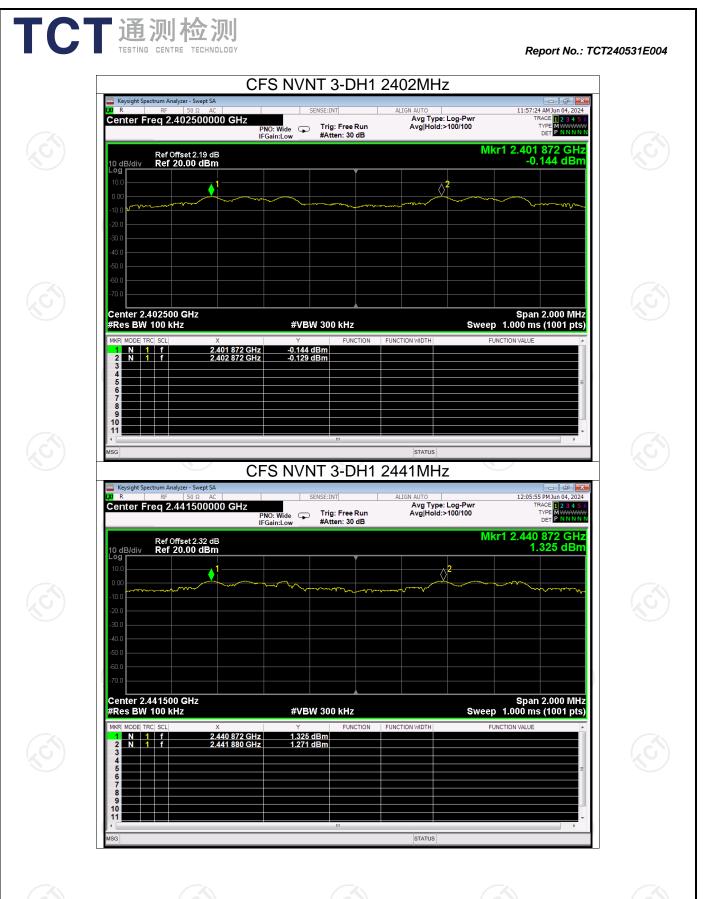


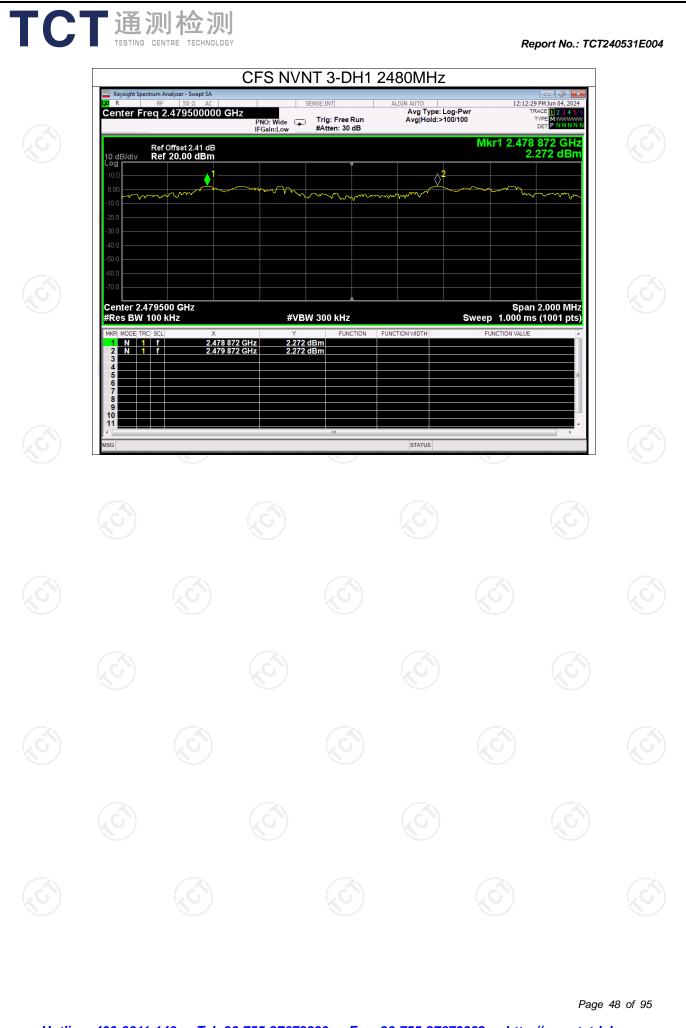
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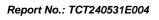




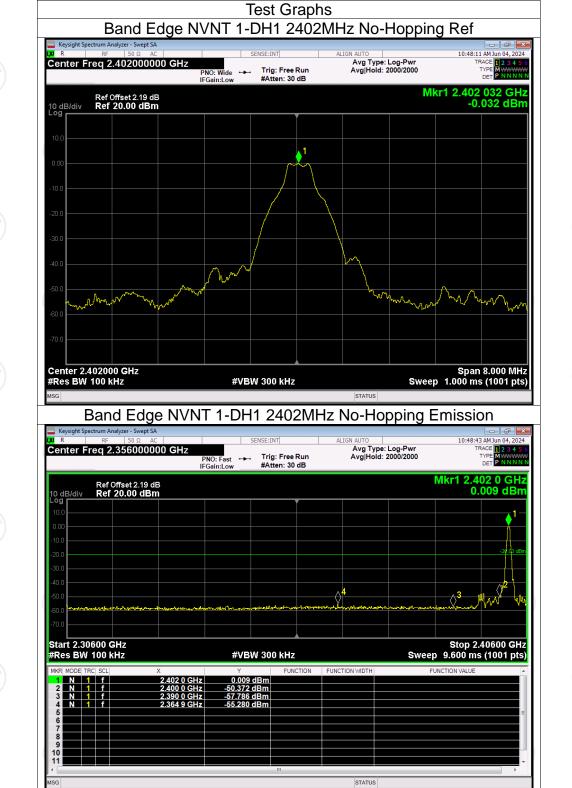
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-55.24	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-51.06	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-55.58	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-52.94	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-55.58	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-51.00	-20	Pass

			Band Edge			
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdic
NVNT	1-DH1	2402	No-Hopping	-55.24	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-51.06	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-55.58	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-52.94	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-55.58	-20	Pass

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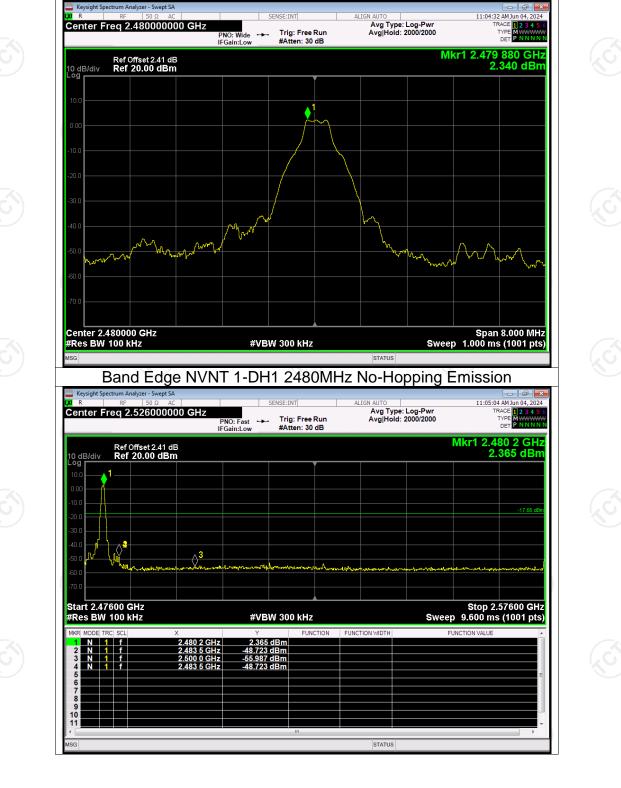


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Band Edge NVNT 1-DH1 2480MHz No-Hopping Ref

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## AVG Type: Log-Pwr Avg Hold: 2000/2000 12345 M PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.401 880 GHz -0.108 dBm Ref Offset 2.19 dB Ref 20.00 dBm 10 dB/div bg ۵ کسک mm W/h hand w $\vee \omega$ 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 KU R :29:50 AM Jun 04, 2024 ALIGN AU Avg Type: Log-Pwr Avg|Hold: 2000/2000 Center Freq 2.356000000 GHz 2345 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE Mkr1 2.401 9 GHz -0.081 dBm Ref Offset 2.19 dB Ref 20.00 dBm 10 dB/div Log HL.MAR **∂**<sup>3</sup> **∲** Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) Start 2.30600 GHz #Res BW 100 kHz #VBW 300 kHz FUNCTION WIDTH -0.081 dBm -48.650 dBm -56.698 dBm -55.690 dBm 2.400 0 GHz 2.390 0 GHz 2.360 9 GHz N 1 f N 1 f

Band Edge NVNT 2-DH1 2402MHz No-Hopping Ref

Center Freq 2.402000000 GHz

Keysight S X/R

Report No.: TCT240531E004

11:29:17 AM Jun 04, 2024



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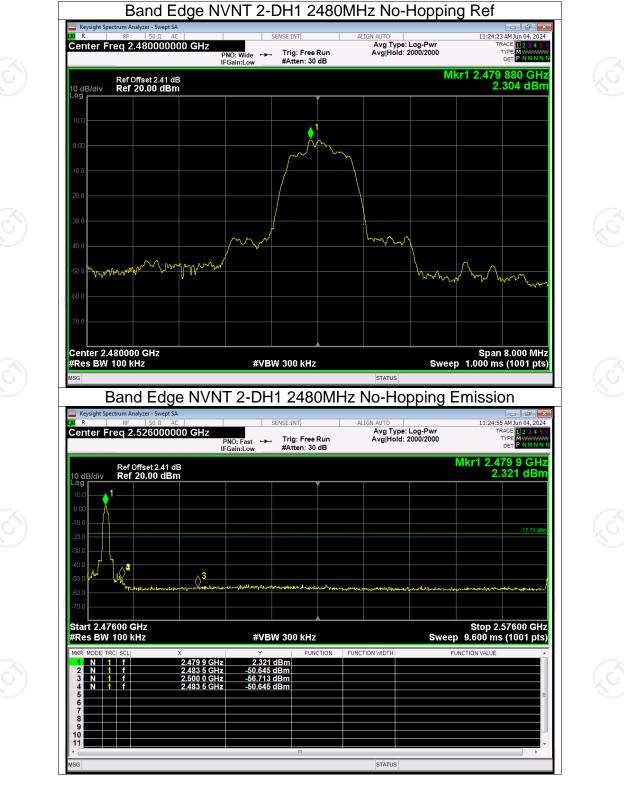






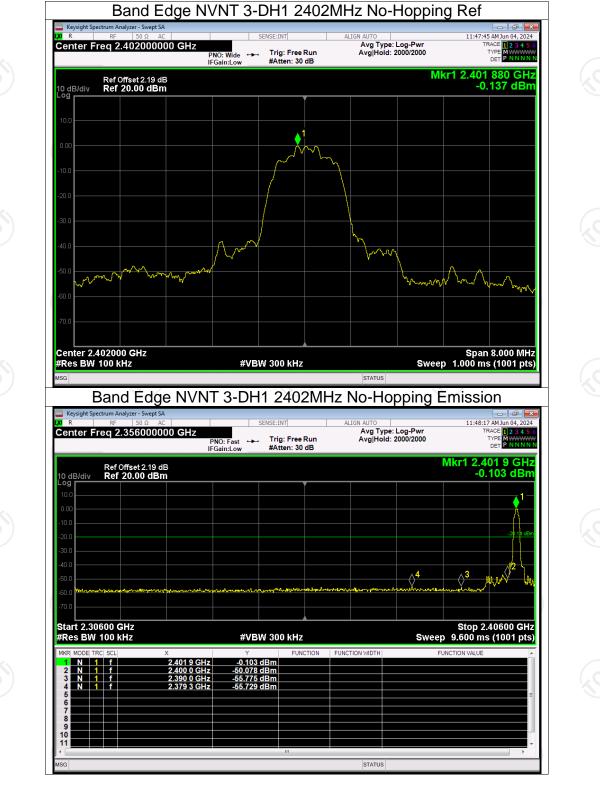






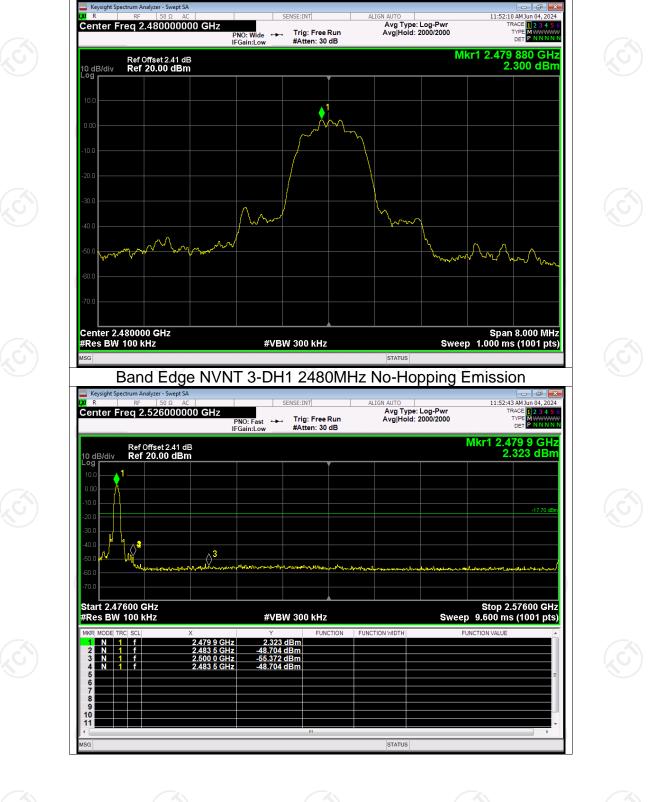
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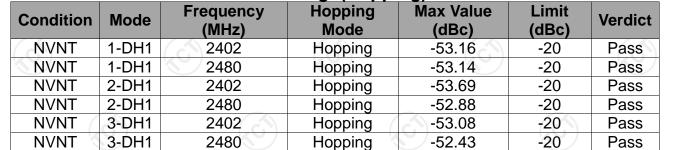


Band Edge NVNT 3-DH1 2480MHz No-Hopping Ref

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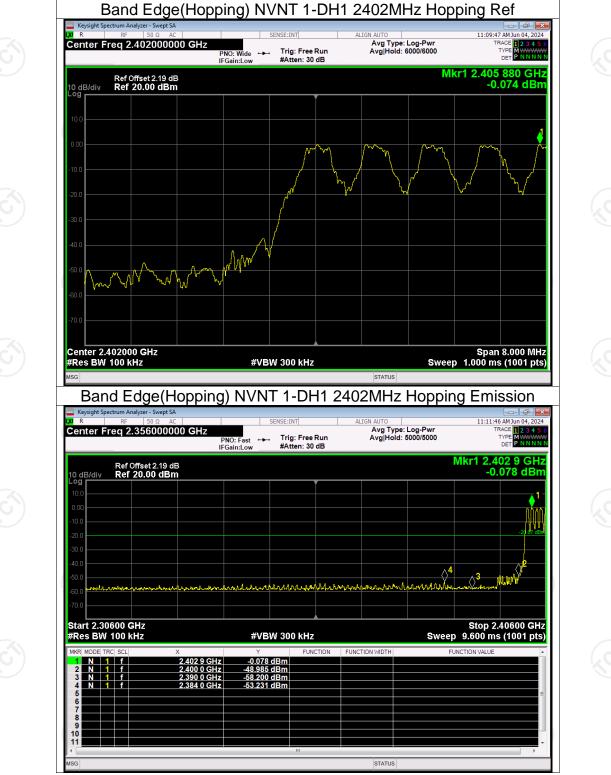
# **Band Edge(Hopping)**



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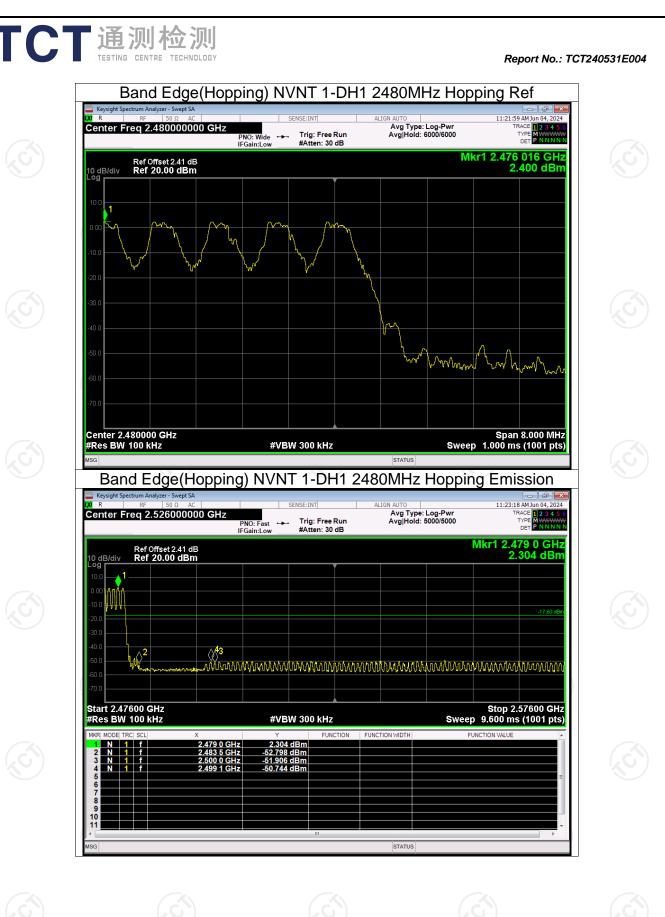




Test Graphs

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Mkr1 2.405 880 GHz -0.050 dBm Ref Offset 2.19 dB Ref 20.00 dBm 10 dB/div M VI W Winn www. Mad MMM m m m m 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 2-DH1 2402MHz Hopping Emission AM Jun 04, 2024 Avg Type: Log-Pwr Avg|Hold: 5000/5000 Center Freq 2.356000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast ↔ IFGain:Low TYP DE Mkr1 2.405 9 GHz -0.040 dBm Ref Offset 2.19 dB Ref 20.00 dBm 10 dB/div Log **r**  $A^4$  $\wedge^3$ Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION -0.040 dBm -47.333 dBm -57.899 dBm -53.743 dBm 2.400 0 GHz 2.390 0 GHz 2.382 0 GHz N 1 f N 1 f

Band Edge(Hopping) NVNT 2-DH1 2402MHz Hopping Ref

PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB AVG Type: Log-Pwr Avg Hold: 6000/6000

#### Report No.: TCT240531E004

TYP DE





Center Freq 2.402000000 GHz

Keysight S X/R

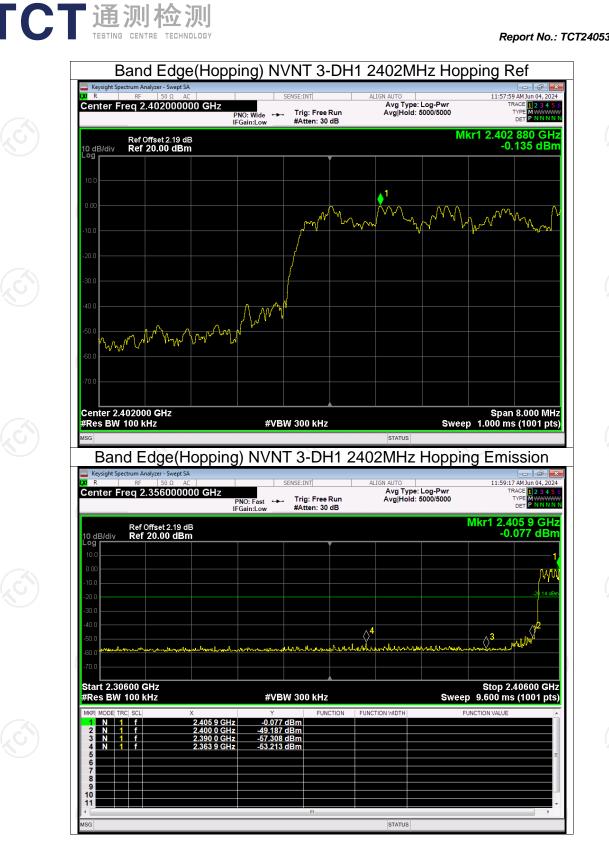








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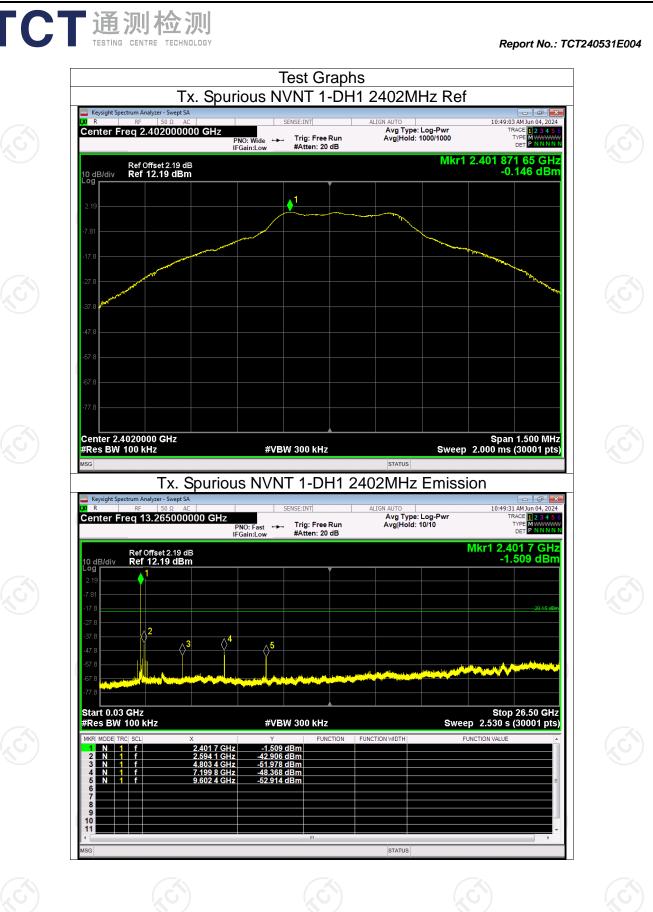
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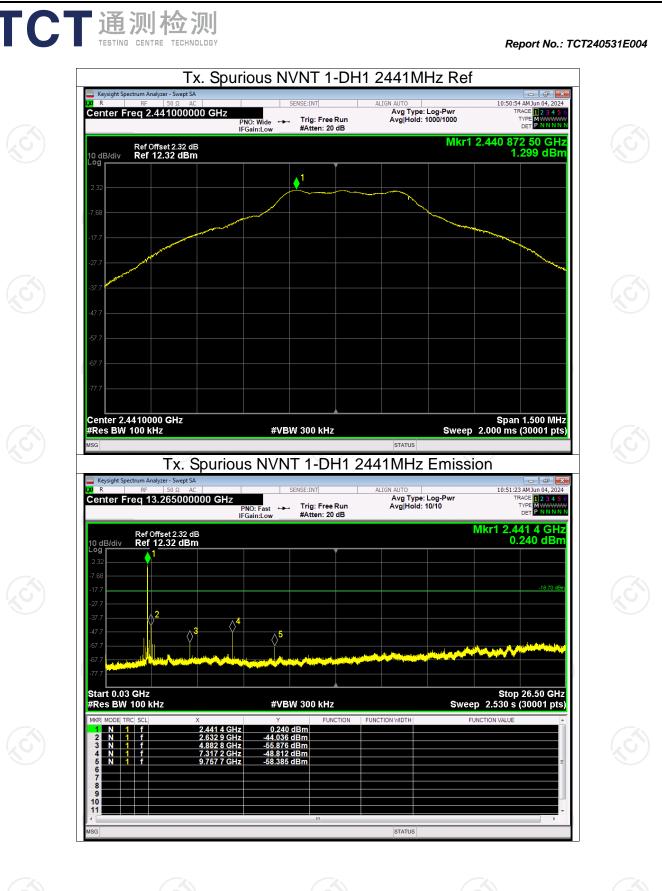
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# **Conducted RF Spurious Emission**

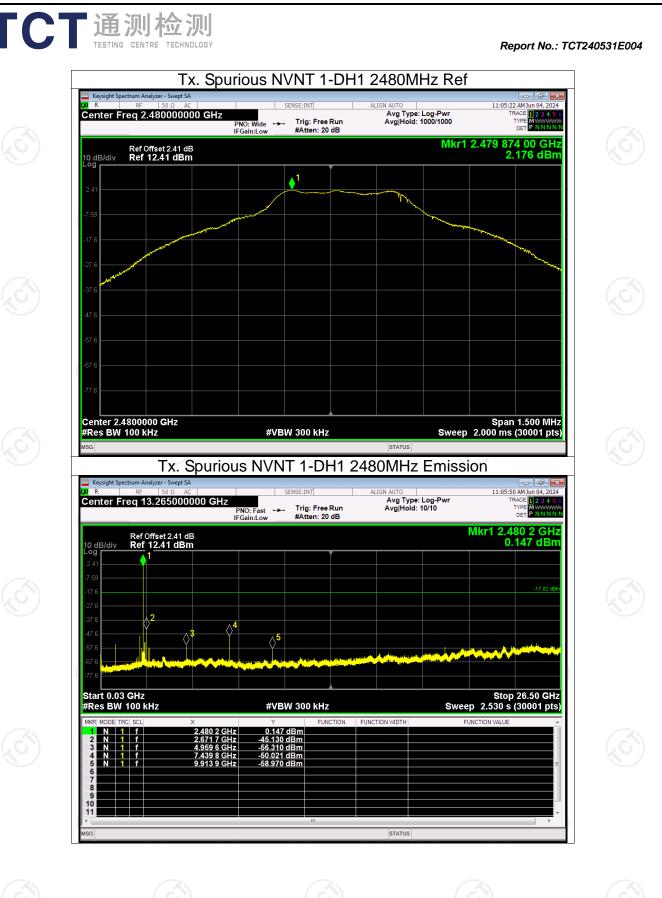
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict					
NVNT	1-DH1	2402	-42.75	-20	Pass					
NVNT	1-DH1	2441	-45.33	-20	Pass					
<b>NVNT</b>	1-DH1	2480	-47.31	-20	Pass					
NVNT	2-DH1	2402	-42.45	-20	Pass					
NVNT	2-DH1	2441	-44.87	-20	Pass					
NVNT	2-DH1	2480	-45.79	-20	Pass					
NVNT 🚫	3-DH1	2402	-42.63	-20	Pass					
NVNT	3-DH1	2441	-48.88	-20	Pass					
NVNT	3-DH1	2480	-47.39	-20	Pass					

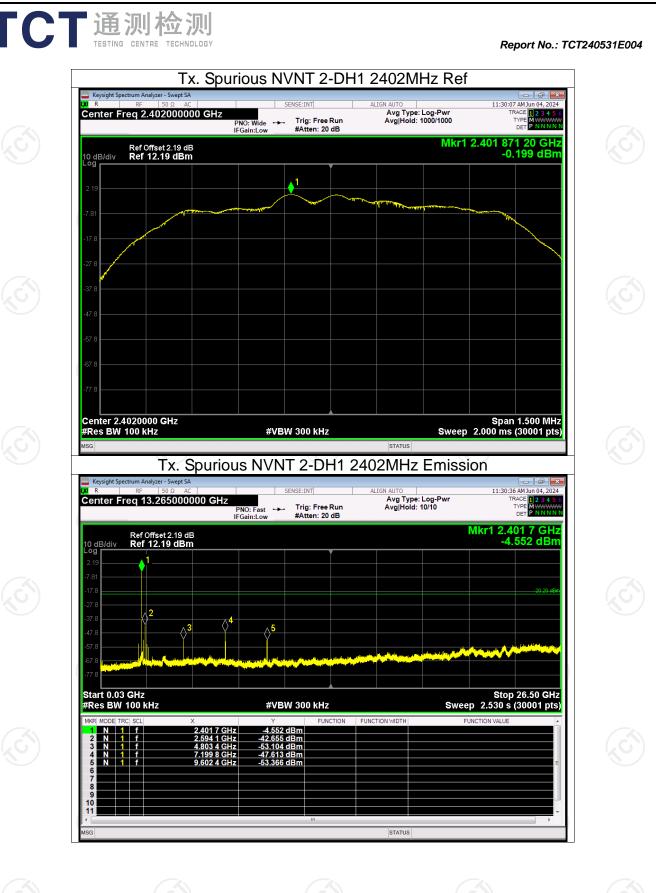
Report No.: TCT240531E004



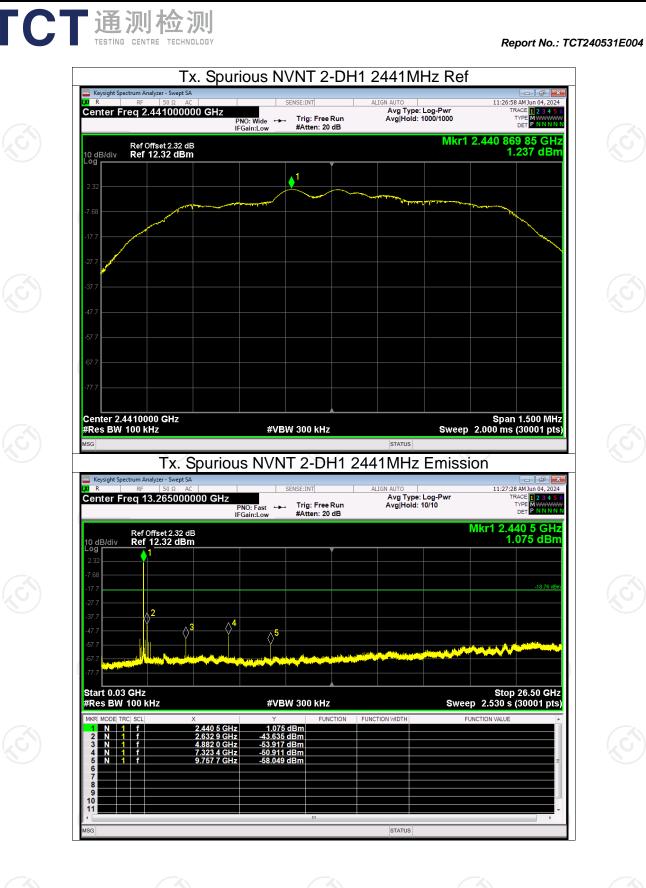


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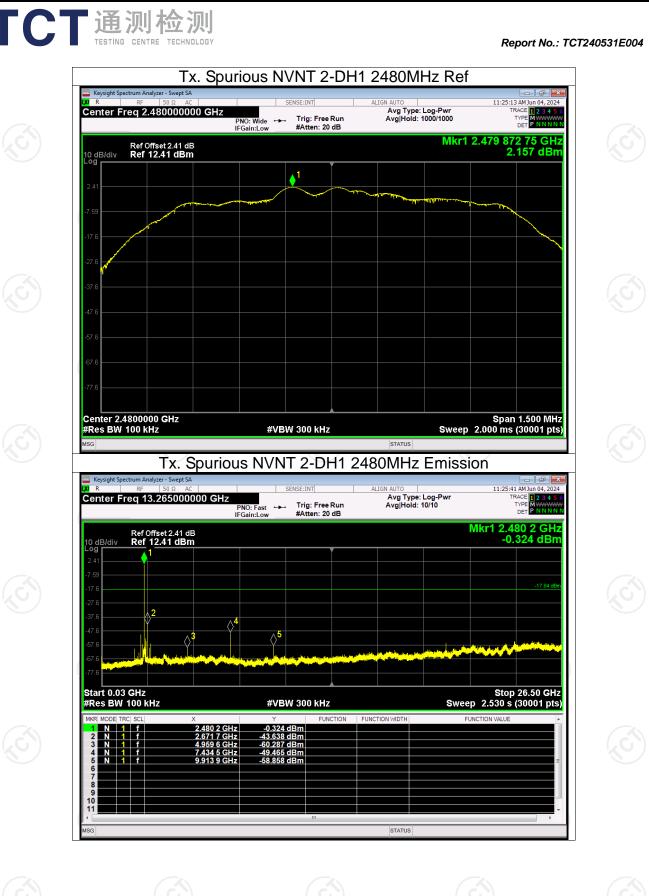


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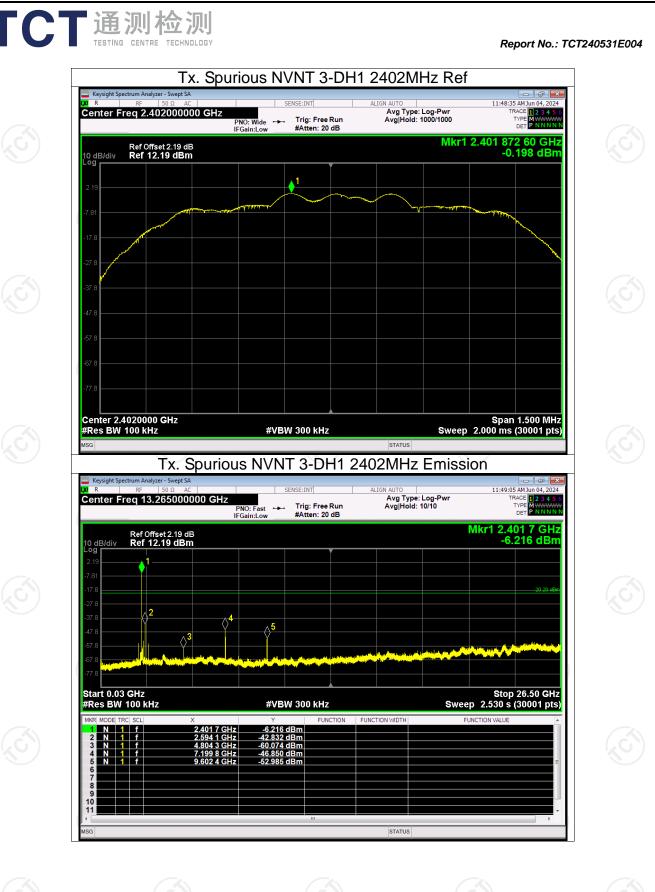


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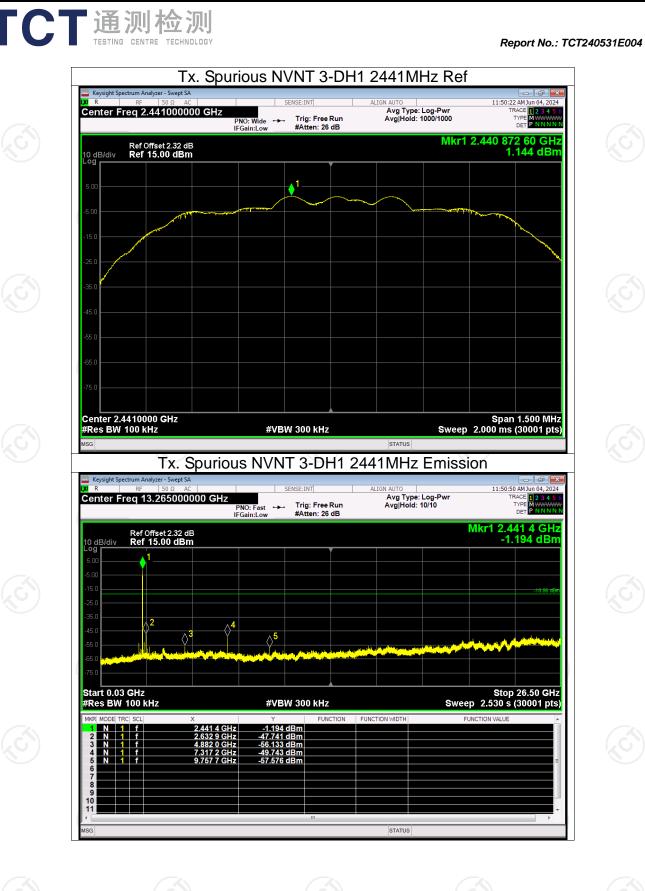
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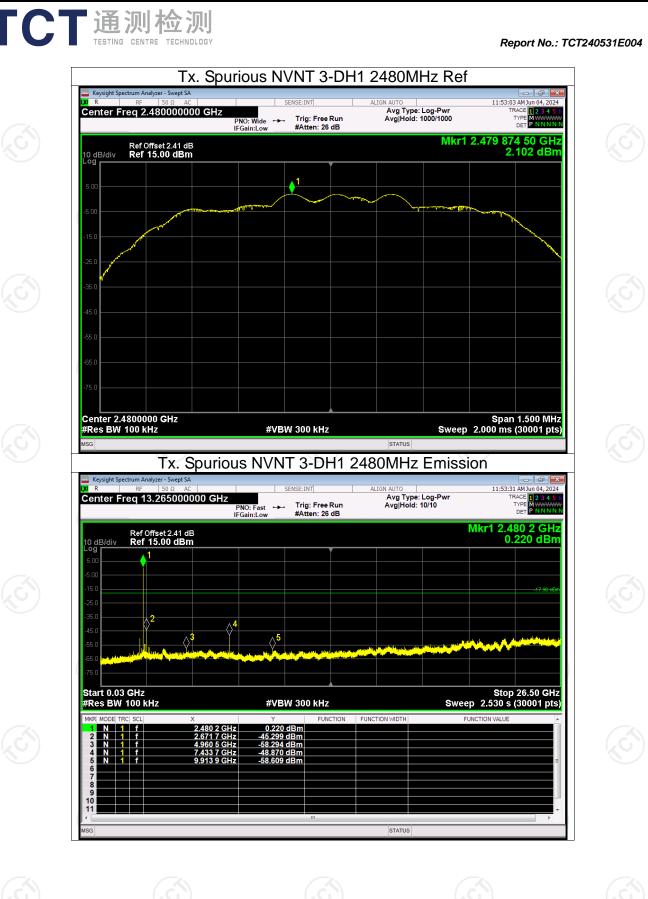
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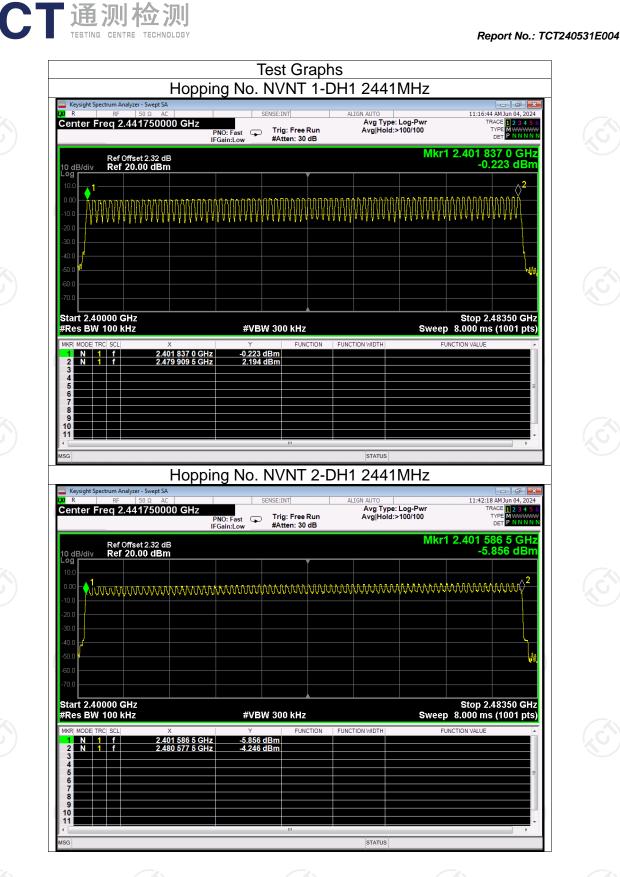


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TC		则检测 CENTRE TECHNOLOGY				Rej	port No.: TCT2	240531E004
	Condition NVNT NVNT NVNT	Nu Mode 1-DH1 2-DH1 3-DH1		f Hoppin Hopping N 79 79 79 79	g Chann lumber	el Limit 15 15 15	Verd Pas Pas Pas	is is
			(S				Ś	
<u>Hot</u> li	ne: 400-6611-	<u>140 Tel:</u> 86	6-755-27673	3339 <u>Fax</u> :	86-75 <b>5-2</b> 767	<u>3332 http:</u> /	Page // <b>www.tct-la</b>	73 of 95 1 <b>b.com</b>



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.029 dBm	12:09:08 wr тк 00 т Мkr1 2.401 92 -0.	H1 2441MI	IN VINI 3-D	Hz PNO: Fast IFGain:Low	n Analyzer - Swept SA RF 50 Ω AC 2.4441750000 G ef Offset 2.32 dB ef 20.00 dBm	Center Fre	
48350 GHz s (1001 pts)	Stop 2. Sweep 8.000 ms FUNCTION VALUE		dBm	) 5 GHz -0.029	0 KHZ CL X 1 2.401 920	-30 0 -40 0 -50 0 -50 0 -70 0 Start 2.4000 #Res BW 1 MKR MODE TRC 1 N 1 3 4 5 6 6 7	
		STATUS				8 9 10 11 4 MSG	

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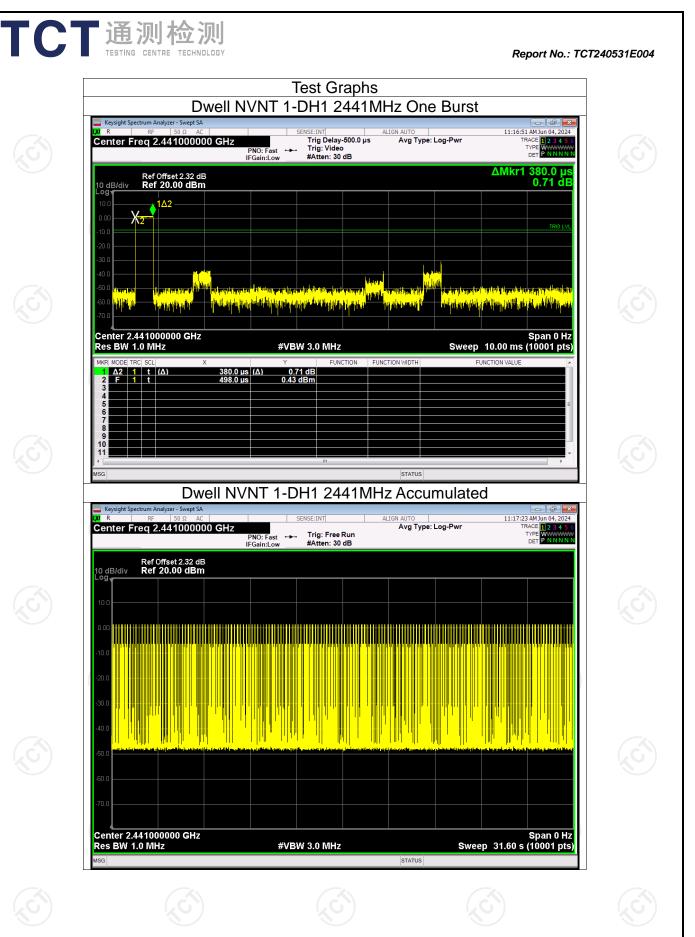
Dwell Time										
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict		
NVNT	1-DH1	2441	0.38	120.84	318	31600	400	Pass		
NVNT	1-DH3	2441	1.64	254.20	155	31600	400	Pass		
NVNT	1-DH5	2441	2.89	283.22	98	31600	400	Pass		
NVNT 🔇	2-DH1	2441	0.39	123.24	316	31600	400	Pass		
NVNT	2-DH3	2441	1.64	265.68	162	31600	400	Pass		
NVNT	2-DH5	2441	2.89	320.79	111	31600	400	Pass		
NVNT	3-DH1	2441	0.39	124.41	319	31600	400	Pass		
NVNT	3-DH3	2441	1.64	264.04	161	31600	400	Pass		
NVNT	3-DH5	2441	2.89	323.68	112	31600	400	Pass		

Note: Total Dwell Time(ms)=Pulse Time(ms) \* Burst Count

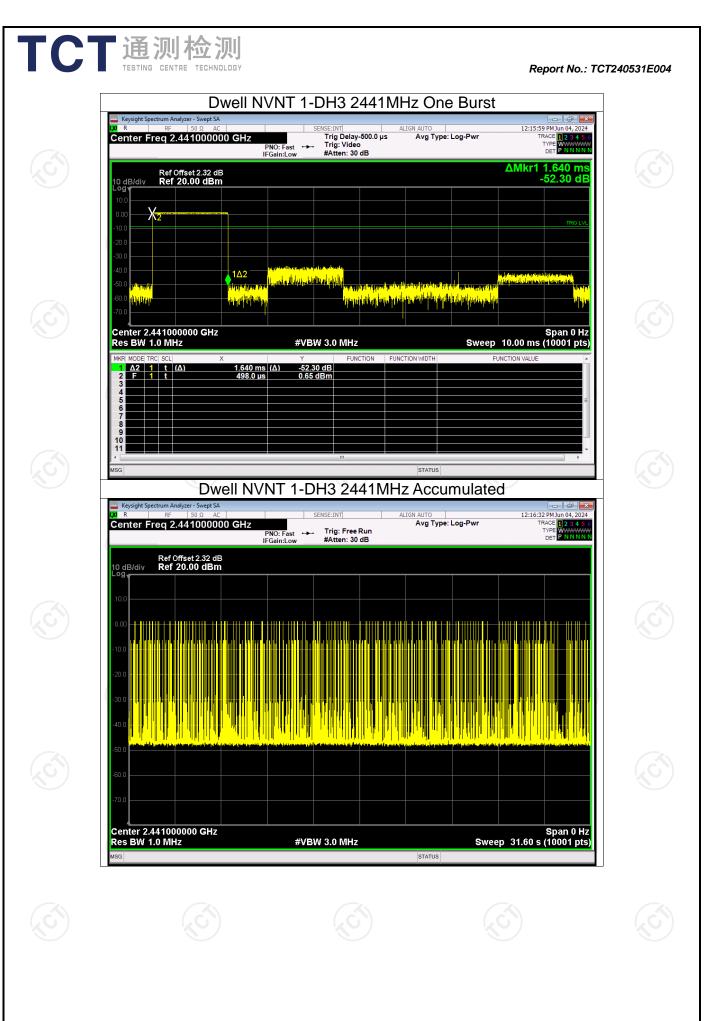
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Report No.: TCT240531E004

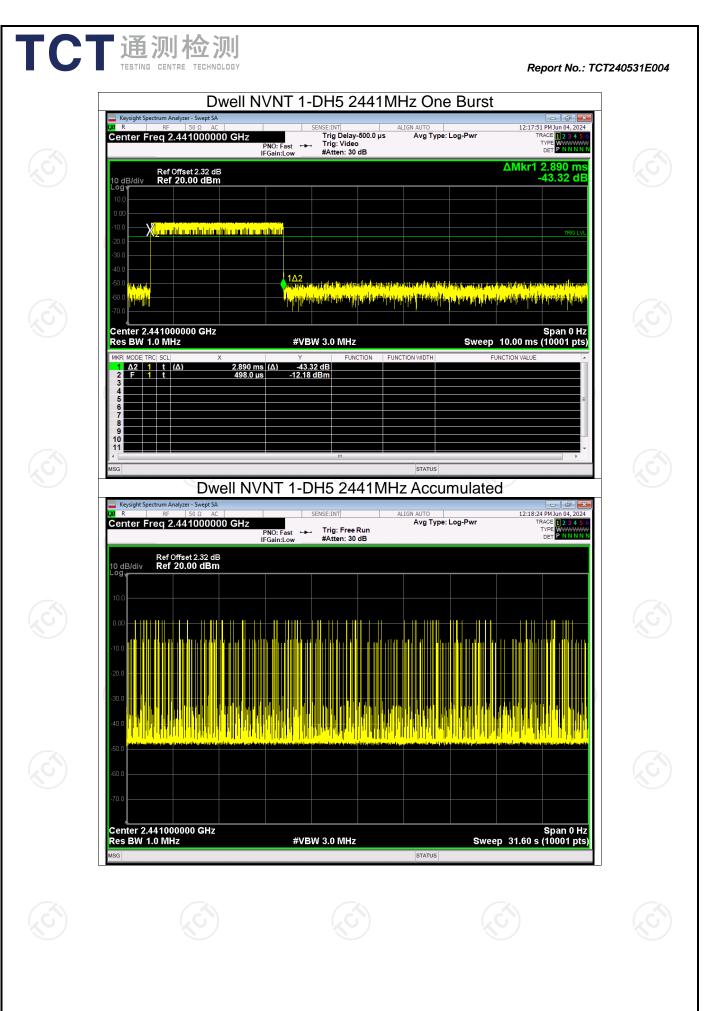
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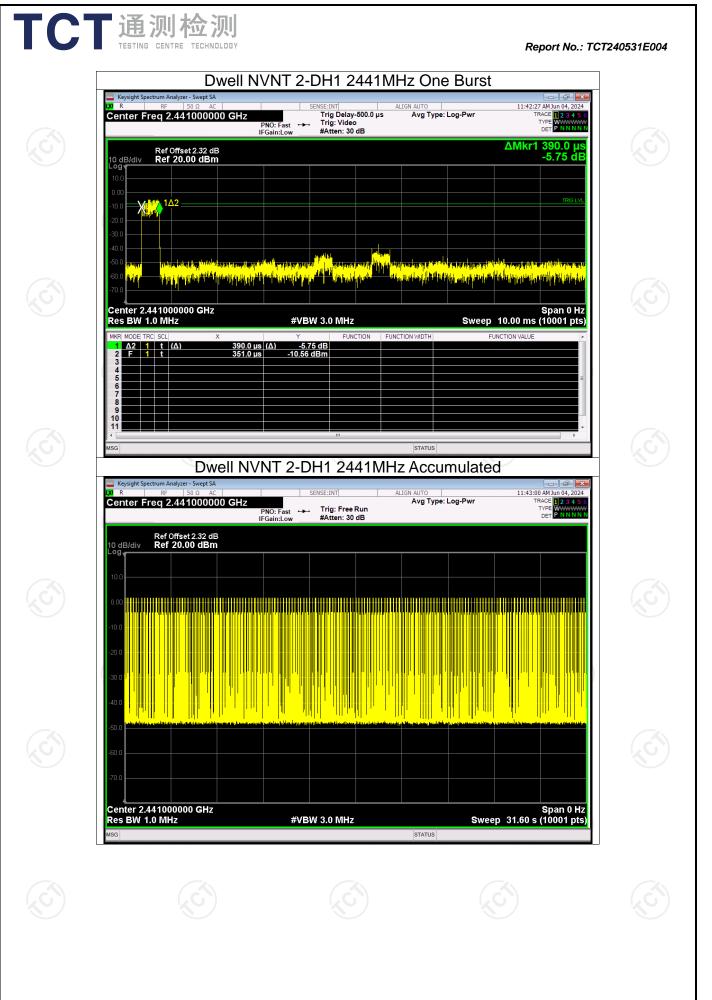
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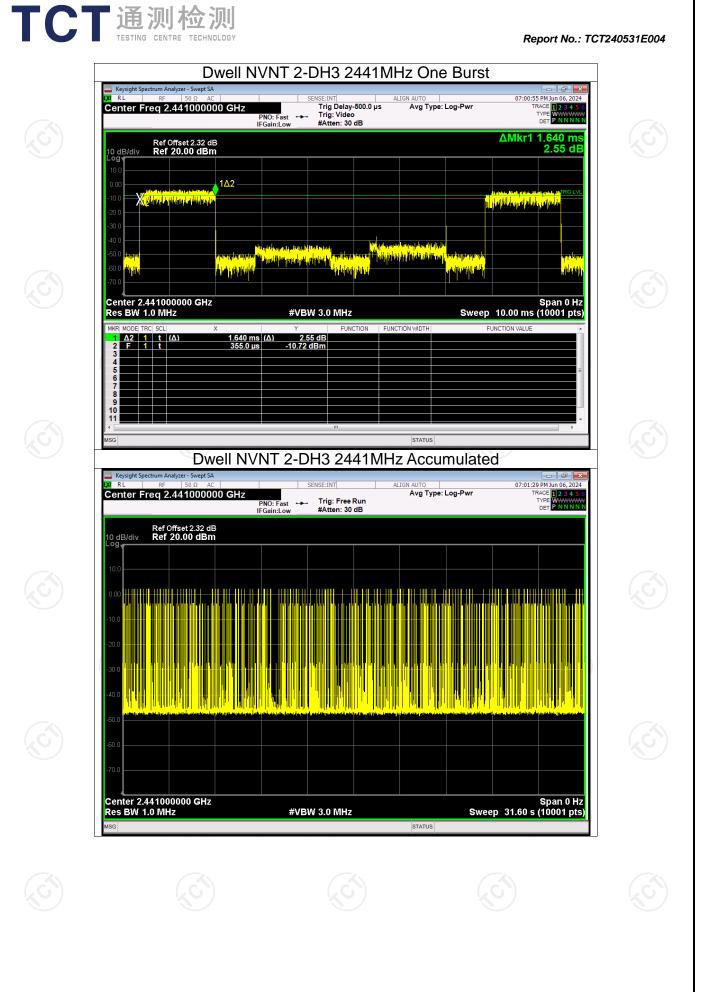
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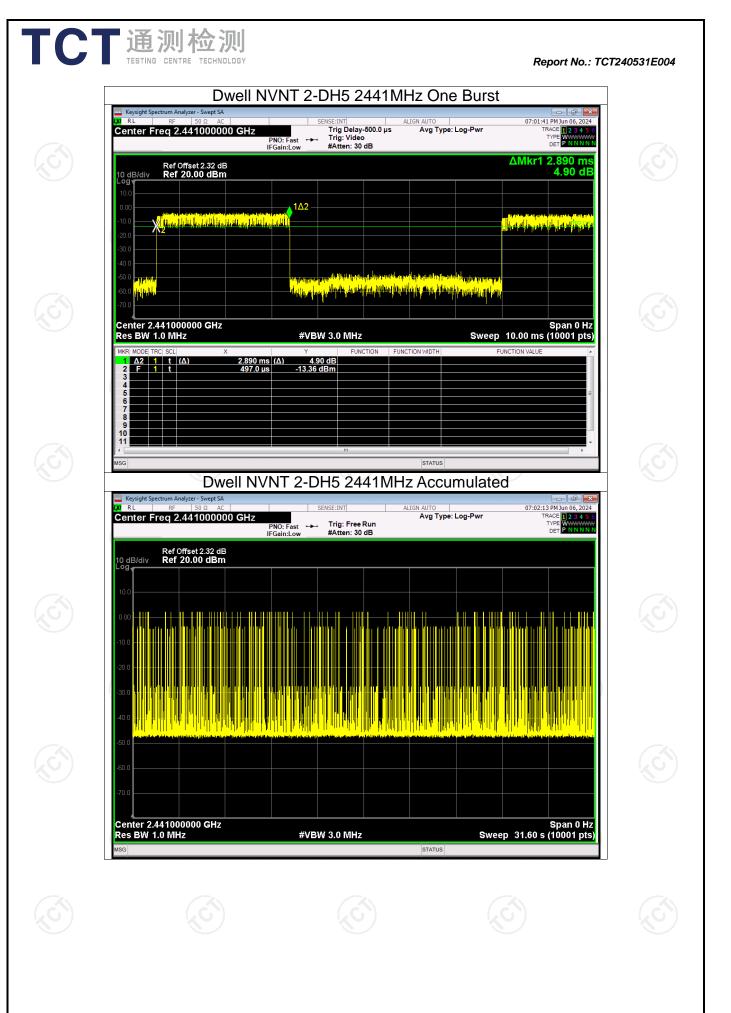


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