TCT 通测检	之测		
TESTING CENTRE TE	TEST REPO	DRT	
FCC ID	2BFXN-G037		
Test Report No:	TCT240122E031		
Date of issue:	Jan. 31, 2024		
Testing laboratory: :	SHENZHEN TONGCE TES	STING LAB	
Testing location/ address:		actory, Renshan Industrial Zone, istrict, Shenzhen, Guangdong, of China	
Applicant's name: :	Gingko Design Ltd		
Address:	Unit C23c, Holly Farm Busi Warwickshire, CV8 1NP, U	ness Park, Honiley, Kenilworth, Solar Network, Solar Network, Network, Network, Network, Network, Network, Netwo	
Manufacturer's name :	GINGKO ELETRONICS (C	HINA) LTD	
Address:	2nd Floor, Building 1, Went City, Jiangxi Province, Chir	ian Industrial Park, Taihe County, Ji'a na	
Factory's name:	GINGKO ELETRONICS (C	HINA) LTD	
Address:	2nd Floor, Building 1, Wentian Industrial Park, Taihe County, Ji'ar		
Standard(s) :	City, Jiangxi Province, Chir FCC CFR Title 47 Part 15 S FCC KDB 558074 D01 15.2 ANSI C63.10:2013		
Product Name:	Mage See-through Bluetoo	th Speaker	
Trade Mark:	N/A		
Model/Type reference :	G037, G037BK, G037WT,	G037WE, G037 SERIES	
Rating(s):	Rechargeable Li-ion Batter	y DC 3.7V	
Date of receipt of test item	Jan. 22, 2024		
Date (s) of performance of test:	Jan. 22, 2024 ~ Jan. 31, 20	)24	
Tested by (+signature) :	Onnado YE	Onnodo JANGCE	
Check by (+signature) :	Beryl ZHAO	BoyCongerCT	
Approved by (+signature):	Tomsin	Tomski's st	

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**1. General Product Information** 

# 1.1. EUT description

Product Name:	Mage See-through Bluetooth Speaker	
Model/Type reference:	G037	
Sample Number:	TCT240122E031-0101	
Bluetooth Version:	V5.3 (This report is for BDR+EDR)	
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:	PCB Antenna	
Antenna Gain:	-0.58dBi	$\mathcal{S}$
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	

Report No.: TCT240122E031

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

### 1.2. Model(s) list

No.		Mode	I No.		Tested with
1		G0	37		$\square$
Other models	G037B	K, G037WT, G0	037WE, G037 SI	ERIES	
			models. The mode a of G037 can repr		circuit and PCB layout, ng models.
Hotline: 40	00-6611-140 Tel:	86-755-27673339	Fax: 86-755-27	673332 http://	Page 3 of 95 www.tct-lab.com



### 1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
G )1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz 🔇
·				·		·	
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	~	-
Remark:	Channel 0, 3	89 & 78 ha	ave been te:	sted for G	FSK, π/4-D	QPSK, 8	DPSK 🏑

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

#### Note:

1. PASS: Test item meets the requirement.

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

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

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

# 3. General Information

# 3.1. Test environment and mode

Operating Environment:			
Condition	Conducted Emission	Radiated Emission	
Temperature:	23.5 °C	24.1 °C	
Humidity:	52 % RH	54 % RH	
Atmospheric Pressure:	1010 mbar	1010 mbar	
Test Software:			
Software Information:	FCC_assist_1.0.2.2		
Power Level:	10		
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. If the EUT continuously work axis (X, Y & Z) and cor- manipulating interconnecting from 1m to 4m in both worst-case(Z axis) are	8m & 1.5m for the measure of chamber. Measurements in During the test, each emission ing, investigated all operating isidered typical configuration g cables, rotating the turnta horizontal and vertical por shown in Test Results n tested, only worse case DH	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 larizations. The emissions of the following pages.	

# 3.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA200	R37R55T6KL2SE3	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 %.

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

# FCC Part15 C Section 15.203 /247(c) **Standard requirement:** 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. E.U.T Antenna: The Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -0.58dBi. Antenna 50 30 07 09 09



### 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				
Receiver setup:	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:	Reference Plane 40cm E.U.T AC power Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	Receiver			
Test Mode:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m Charging + Transmittir	Receiver etwork ng Mode			
Test Mode: Test Procedure:	<ul> <li>EUT: Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m</li> <li>Charging + Transmittin</li> <li>1. The E.U.T is connering impedance stabilizing provides a 500hm/s measuring equipme</li> <li>2. The peripheral device power through a Line coupling impedance refer to the block photographs).</li> <li>3. Both sides of A.C. conducted interferent emission, the relative the interface cables</li> </ul>	Receiver ang Mode cted to an adapte cation network 50uH coupling im nt. ces are also conne SN that provides a with 50ohm tern diagram of the line are checked nce. In order to fin e positions of equ must be changed	(L.I.S.N.). Thi pedance for the ected to the mains a 500hm/50uh nination. (Please test setup and ed for maximum nd the maximum ipment and all of according to		
	<ul> <li>E.U.T. Equipment Under Test LISN Line Impedence Stabilization N Test table height=0.8m</li> <li>Charging + Transmittin</li> <li>The E.U.T is connel impedance stabiliz provides a 50ohm/s measuring equipme</li> <li>The peripheral device power through a Li coupling impedance refer to the block photographs).</li> <li>Both sides of A.C. conducted interferent emission, the relative</li> </ul>	Receiver ang Mode cted to an adapte cation network 50uH coupling im nt. ces are also conne SN that provides a with 50ohm tern diagram of the line are checked nce. In order to fin e positions of equ must be changed	(L.I.S.N.). This pedance for the acted to the main a 50ohm/50uh nination. (Please test setup and ed for maximun nd the maximun ipment and all o l according to		

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### 5.2.2. Test Instruments

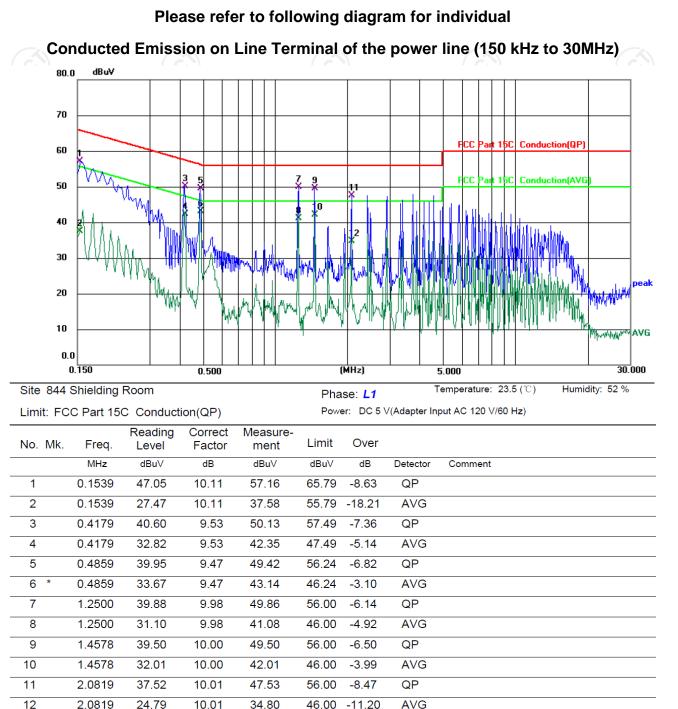
	Conducted Emission Shielding Room Test Site (843)						
	Equipment Manufacturer		Model	Serial Number	Calibration Due		
0	EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024		
	Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 20, 2024		
	Line-5	ТСТ	CE-05	/	Jul. 03, 2024		
	EMI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



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#### 5.2.3. Test data

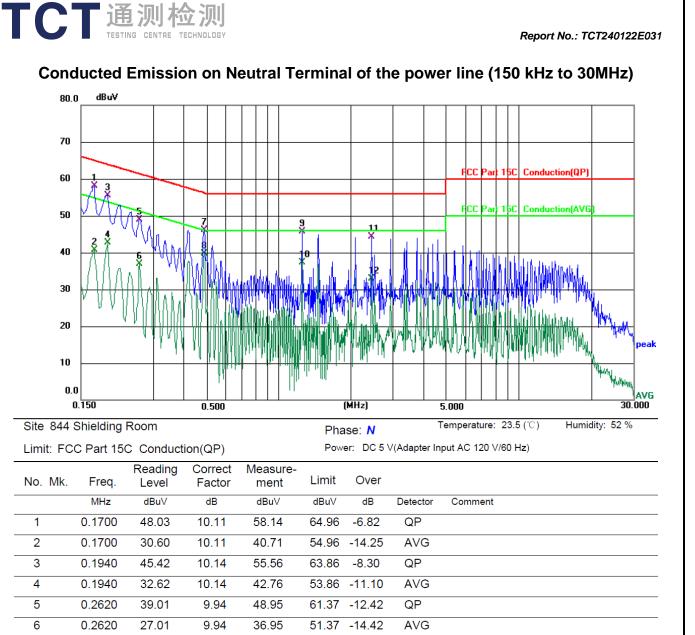
CT通测检测 TESTING CENTRE TECHNOLOGY



#### 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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56.17 -10.04

46.17 -6.38

56.00 -10.39

56.00 -11.78

46.00 -13.06

-8.71

46.00

QP

AVG

QP

AVG

QP

AVG

#### Note1:

7

8

9

10

11

12

0.4900

0.4900

1.2540

1.2540

2.4420

2.4420

Freq. = Emission frequency in MHz

36.66

30.32

35.61

27.29

34.18

22.90

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)

9.47

9.47

10.00

10.00

10.04

10.04

46.13

39.79

45.61

37.29

44.22

32.94

 $Limit (dB\mu V) = Limit stated in standard$ 

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$ 

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 15.24	7 (b)(1)		
Test Method:	KDB 558074 D01 v05r02			
Limit:	Section 15.247 (b) The maximum peak power of the intentional radiator shall n following: (1) For frequency hopping sy in the 2400-2483.5 MHz band employin non-overlapping hopping channels, and hopping systems in the 5725-5850 MH For all other frequency hopping system 2400-2483.5 MHz band 0.125 watts.			
Test Setup:	Spectrum Analyzer	EUT		
Test Mode:	Transmitting mode with mode	ulation		
Test Procedure:	Use the following spectrum a Span = approximately 5 tir centered on a hopping chanr RBW > the 20 dB bandwidth measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak func peak of the emission.	nes the 20 dB bandwidth, nel of the emission being		
Test Result:	PASS			

### 5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	$\mathbf{S}$ 1	





# 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	<b>Calibration Due</b>
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 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.
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>
Test Result:	PASS

#### 5.5.2. Test Instruments

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



### 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
EG2 Test Instruments	

#### 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	/	/

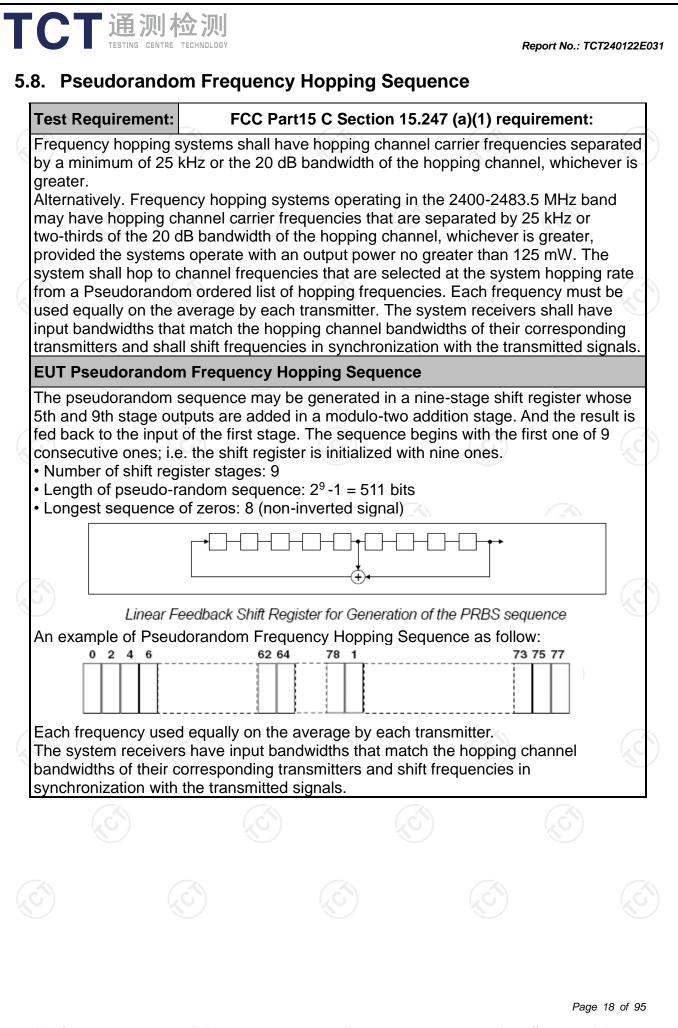
# 5.7. Dwell Time

### 5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	<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>
Test Result:	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 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	<b>Calibration Due</b>
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:	<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	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB		

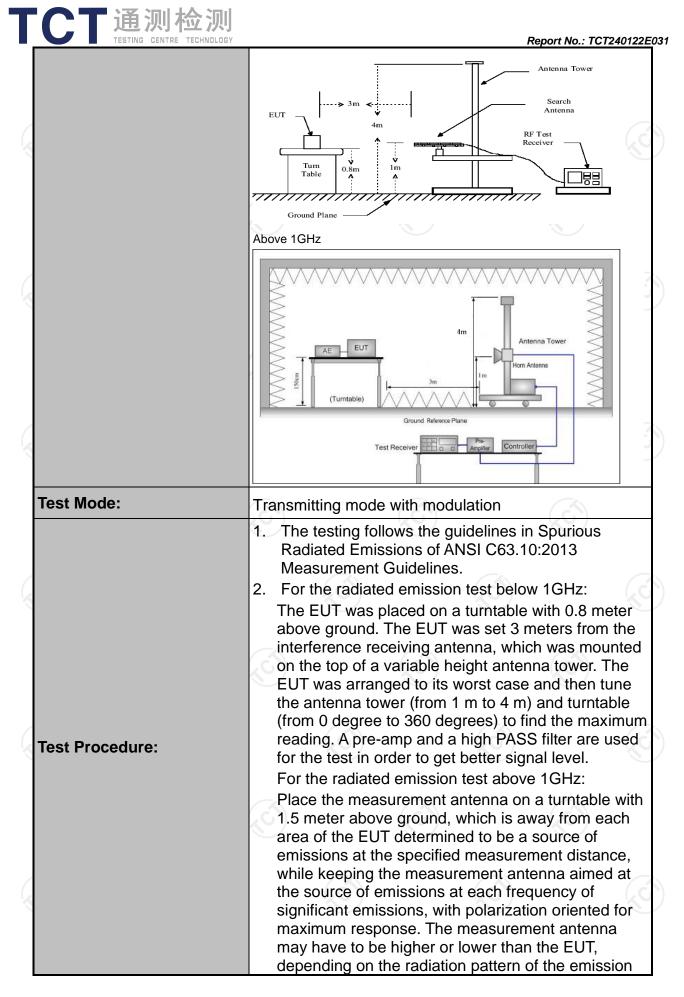




### 5.11.1. Test Specification

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	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10	0:2013					
Frequency Range:	9 kHz to 25 (	GHz				6	
Measurement Distance:	3 m	K	9		R	)	
Antenna Polarization:	Horizontal &	Vertical					
	Frequency	Detector	RBW	VBW	Remark		
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-peak Quasi-peak		1kHz 30kHz		<u>si-peak Value</u> si-peak Value	
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	P	eak Value	
		Peak	1MHz	10Hz	Ave	erage Value	
	Frequen		Field Str (microvolts	/meter)		asurement nce (meters)	
	0.009-0.4		2400/F(			300	
	0.490-1.705		24000/F			30	
	<u>1.705-30</u> 30-88		30		30		
	88-216		150		3		
.imit:	216-960		200		3		
	Above 960		500	500		3	
	(mi		Field Strength icrovolts/meter) Measu Dista (met 500 3		nce Detector ers)		
	Above 1GHz	<u> </u>	5000	3 Peak			
Test setup:	EUT	ssions below stance = 3m Turn table Ground			Compu		
		X					



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	3. 4.	receiving the maxim measurement anten maximizes the emis antenna elevation f restricted to a range above the ground of Set to the maximu EUT transmit conti Use the following s (1) Span shall wid emission being (2) Set RBW=120 for f>1GHz ; V Sweep = auto = max hold for (3) For average m	at the emission source num signal. The final nna elevation shall be ssions. The measurer or maximum emission or fheights of from 1 or reference ground p im power setting and nuously. spectrum analyzer se e enough to fully cap g measured; kHz for f < 1 GHz, R BW≥RBW; o; Detector function =	e that which ment ns shall be m to 4 m lane. d enable the ttings: ture the BW=1MHz peak; Trace
	G	On time =N1*L Where N1 is in length of type Average Emis Level + 20*log Corrected Rea	1+N2*L2++Nn-1*L number of type 1 puls 1 pulses, etc. ssion Level = Peak Er g(Duty cycle) ding: Antenna Factor evel - Preamp Factor	ses, L1 is mission + Cable
Test results:	PA	On time =N1*L Where N1 is in length of type Average Emis Level + 20*log Corrected Rea	number of type 1 puls 1 pulses, etc. ssion Level = Peak Er g(Duty cycle) ding: Antenna Factor	ses, L1 is mission + Cable
Test results:	PA	On time =N1*L Where N1 is in length of type Average Emis Level + 20*log Corrected Rea Loss + Read L	number of type 1 puls 1 pulses, etc. ssion Level = Peak Er g(Duty cycle) ding: Antenna Factor	ses, L1 is mission + Cable
Test results:	PA	On time =N1*L Where N1 is in length of type Average Emis Level + 20*log Corrected Rea Loss + Read L	number of type 1 puls 1 pulses, etc. ssion Level = Peak Er g(Duty cycle) ding: Antenna Factor	ses, L1 is mission + Cable
Test results:		On time =N1*L Where N1 is in length of type Average Emis Level + 20*log Corrected Rea Loss + Read L	number of type 1 puls 1 pulses, etc. ssion Level = Peak Er g(Duty cycle) ding: Antenna Factor	ses, L1 is mission + Cable



### 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	FMZG037519 B	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	1							
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	RO	1						



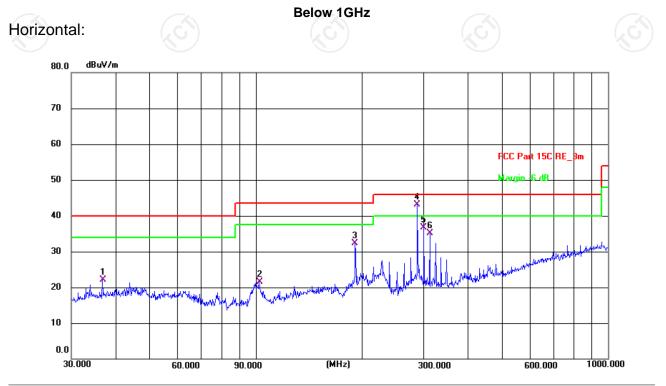




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#### 5.11.3. Test Data

#### Please refer to following diagram for individual



Site #2 3m Anechoic Chamber Polarization: Horizontal Temperature: 24.1(C) Humidity: 54 %

Limit: FCC Part 15C RE\_3m

Power: DC 3.7 V

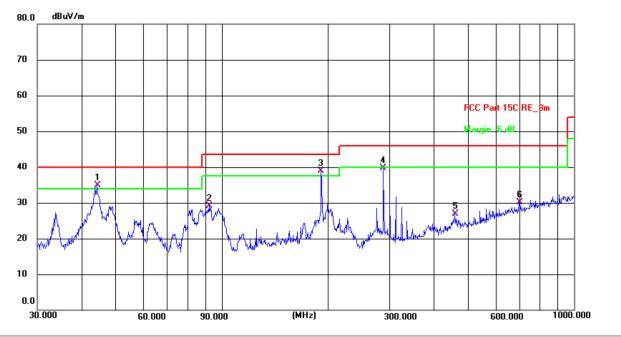
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	36.7662	8.05	13.96	22.01	40.00	-17.99	QP	Ρ	
2	102.3597	10.57	11.02	21.59	43.50	-21.91	QP	Ρ	
3	191.7450	21.07	11.27	32.34	43.50	-11.16	QP	Ρ	
4 *	287.9904	28.91	14.29	43.20	46.00	-2.80	QP	Ρ	
5	300.3672	22.08	14.71	36.79	46.00	-9.21	QP	Ρ	
6	312.1794	19.98	15.07	35.05	46.00	-10.95	QP	Ρ	

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Report No.: TCT240122E031

#### Vertical:

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Site #2 3m Anechoic Chamber Polarization: Vertical Temperature: 24.1(C) Humidity: 54 %

Limit: FCC Part 15C RE_3m	
---------------------------	--

Reading Factor Level Limit Frequency Margin Detector P/F Remark No (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1! 44.2752 21.07 13.82 34.89 40.00 -5.11 QP Ρ 2 92.1386 18.84 10.27 29.11 43.50 -14.39 QP Ρ 3 191.7450 27.68 11.27 38.95 43.50 -4.55 QP Ρ \* 4 287.9904 25.41 14.29 39.70 46.00 -6.30 QP Ρ 5 459.1144 8.24 18.57 26.81 46.00 -19.19 QP Ρ 6 699.3045 7.25 22.88 30.13 46.00 -15.87 QP Ρ

Power: DC 3.7 V

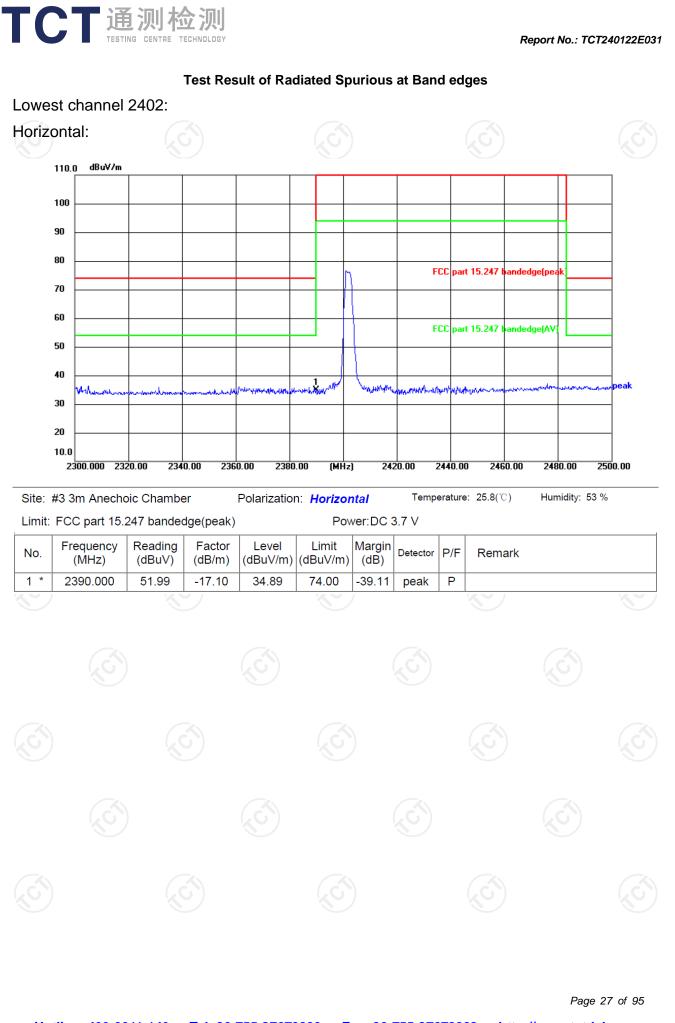
**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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.

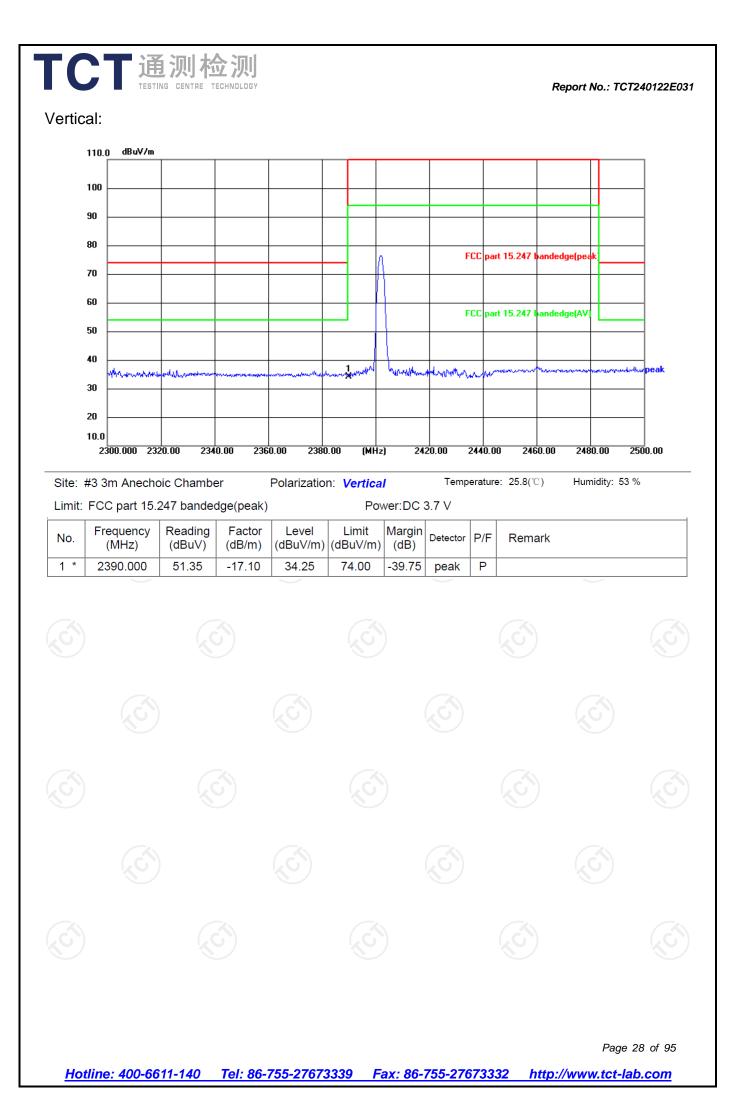
- 3. Freq. = Emission frequency in MHz
  - Measurement  $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$
- Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- *Limit*  $(dB\mu V/m) = Limit$  stated in standard
- $Over (dB) = Measurement (dB\mu V/m) Limits (dB\mu V/m)$
- \* is meaning the worst frequency has been tested in the test frequency range.

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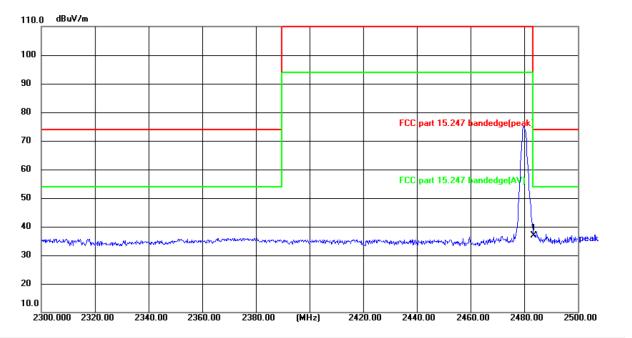


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#### Highest channel 2480:

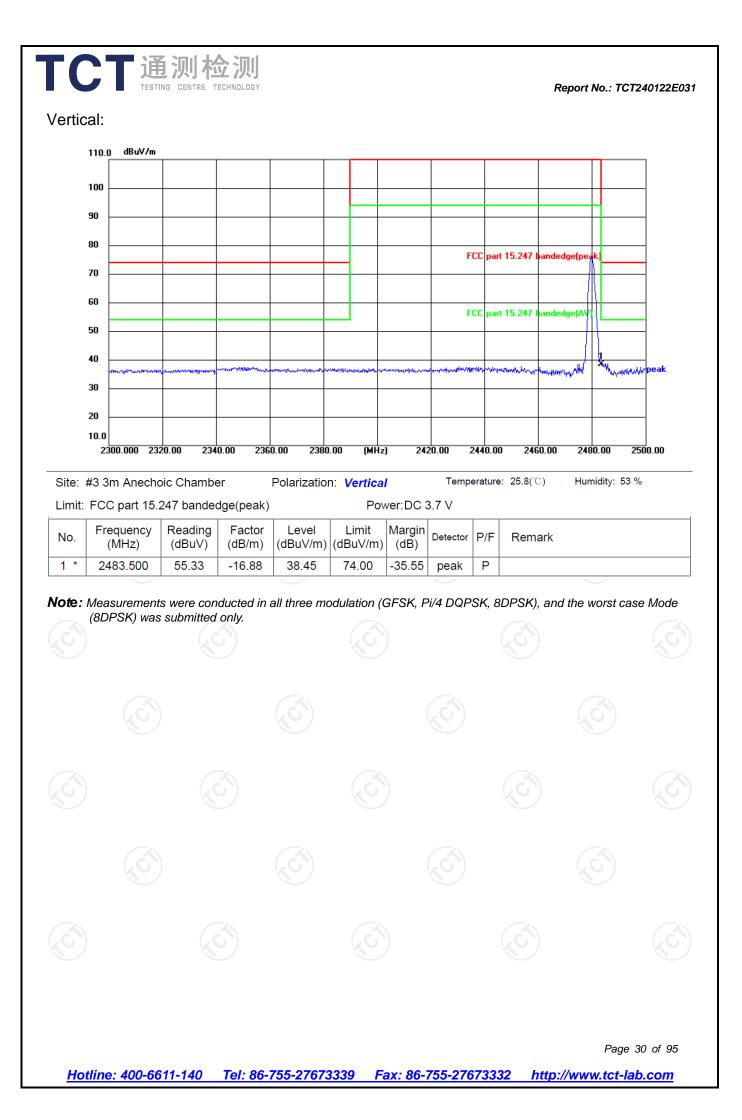
Horizontal:



Report No.: TCT240122E031

Site:	#3 3m Anecho	ic Chambe	er l	Polarizatior	n: Horizor	ntal	Tempe	erature	: 25.8(°C)	Humidity: 53 %
Limit:	Limit: FCC part 15.247 bandedge(peak) 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 *	2483.500	53.74	-16.88	36.86	74.00	-37.14	peak	Ρ		





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#### Above 1GHz

Modulation	Type: 8D	PSK							
Low channe	el: 2402 M	lHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	47.82		0.66	48.48		74	54	-5.52
7206	Н	36.09		9.50	45.59		74	54	-8.41
	Н					~~		77	
(	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<b>(</b> , <b>C</b> )	<b>`</b> )		·C`)		$(\mathcal{O})$	
4804	V	44.61		0.66	45.27		74	54	-8.73
7206	V	33.23		9.50	42.73		74	54	-11.27
	V								

Middle cha	nnel: 2441	MHz		X	)				ĬŽ.
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4882	Н	45.94		0.99	46.93	<u> </u>	74	54	-7.07
7323	ζOH)	32.50	1,0	9.87	42.37	0	74	54	-11.63
	Ĥ								
			1			1			
4882	V	43.18		0.99	44.17		74	54	-9.83
7323	V	35.46		9.87	45.33		74	54	-8.67
	V			X	//				

#### High channel: 2480 MHz

01. 2 100 1								
Ant Pol	Peak	AV	Correction	Emissic	on Level	Poak limit	AV/ limit	Margin
		reading	Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)		(00,00,00)	(42)
Н	46.35		1.33	47.68		74	54	-6.32
Н	34.72		10.22	44.94		74	54	-9.06
Н								
	(.G)		(.0			(.c.)		),)
V	42.03		1.33	43.36		74	54	-10.64
V	35.67		10.22	45.89		74	54	-8.11
V								
	Ant. Pol. H/V H	Ant. Pol. H/V reading (dBµV) H 46.35 H 34.72 H V 42.03 V 42.03	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)           H         46.35            H         34.72            H             V         42.03            V         35.67	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)           H         46.35          1.33           H         34.72          10.22           H           10.22           H          1.33           V         42.03          1.33           V         35.67          10.22	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emissic Peak (dBµV/m)           H         46.35          1.33         47.68           H         34.72          10.22         44.94           H           1.33         47.68           V         42.03          1.33         43.36           V         35.67          10.22         45.89	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emission Level Peak (dBµV/m)           H         46.35          1.33         47.68            H         34.72          10.22         44.94            H          1.33         43.36            V         42.03          1.33         43.36            V         35.67          10.22         45.89	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emission Level Peak (dBµV/m)         Peak limit (dBµV/m)           H         46.35          1.33         47.68          74           H         34.72          10.22         44.94          74           H           1.33         43.36          74           V         42.03          1.33         43.36          74           V         35.67          10.22         45.89          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 $\mu$ 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.

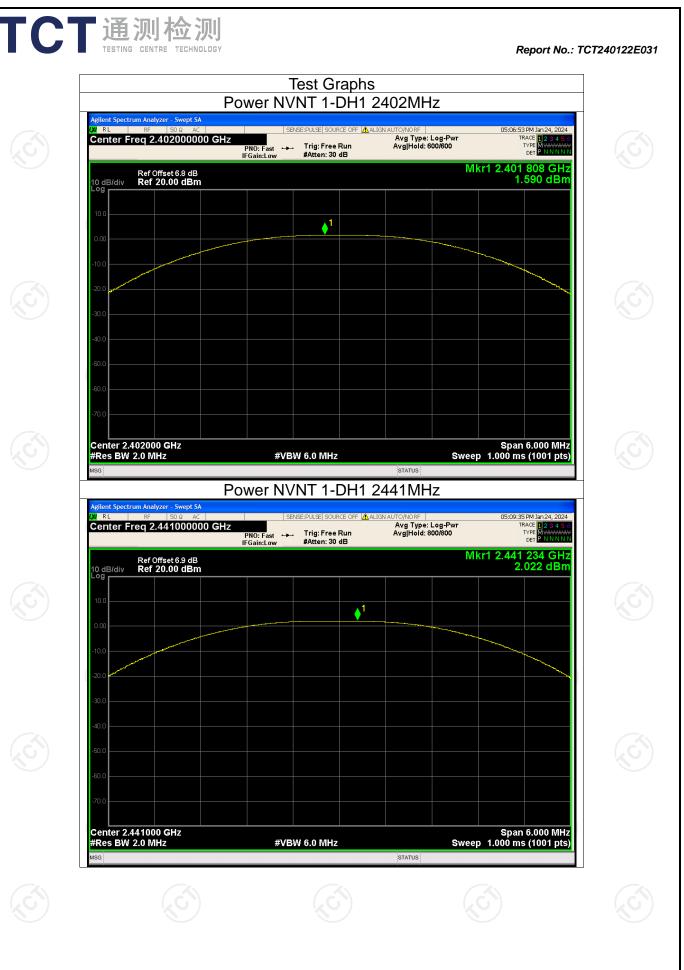
7. All the restriction bands are compliance with the limit of 15.209.



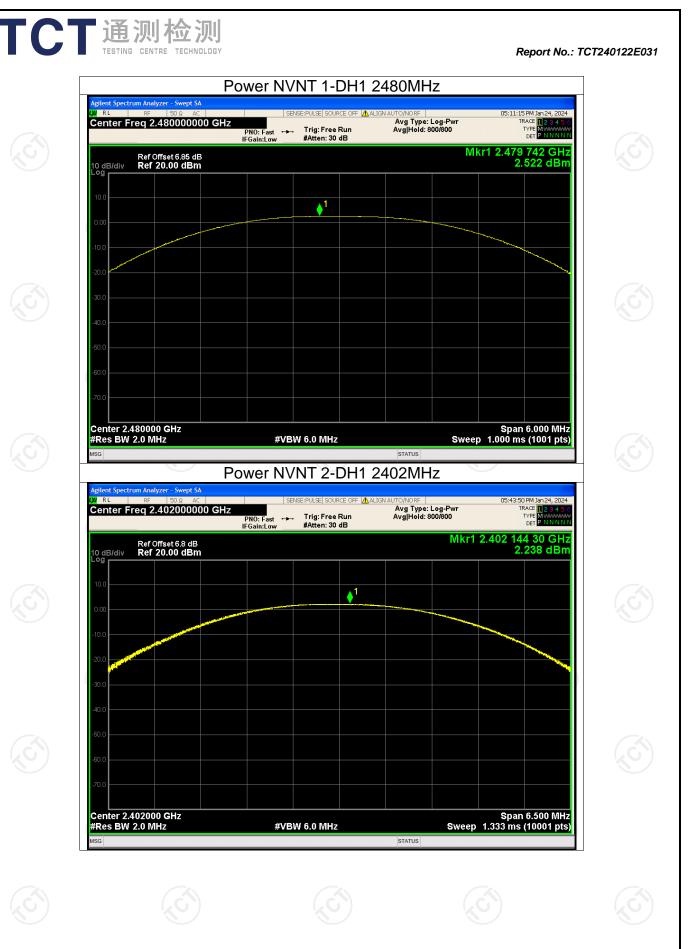
# Appendix A: Test Result of Conducted Test

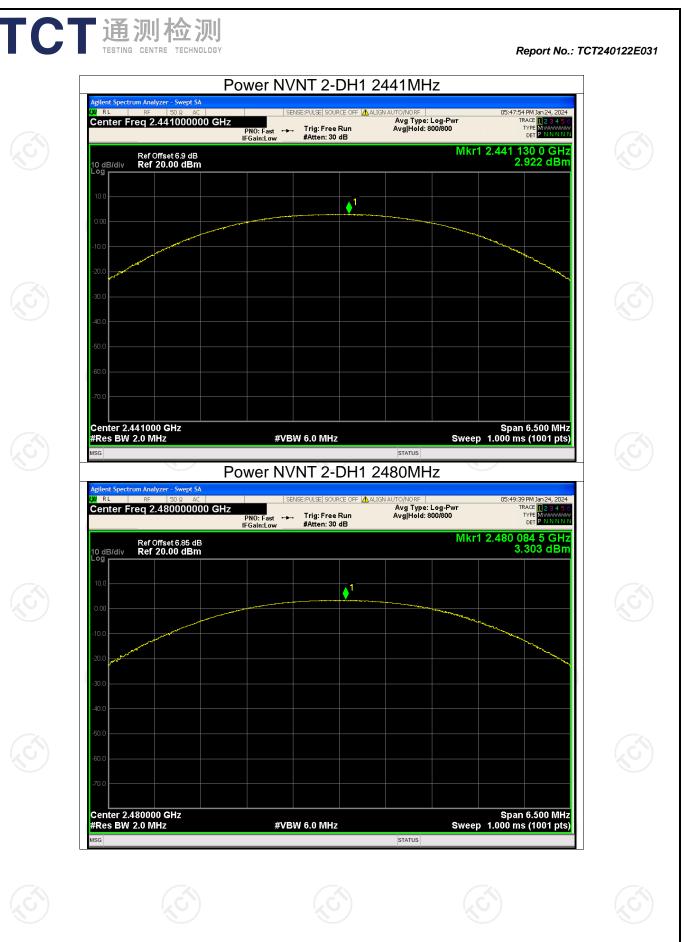
Maximum Conducted Output Power										
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict					
NVNT	1-DH1	2402	1.59	21	Pass					
NVNT	1-DH1	2441	2.02	21	Pass					
NVNT	1-DH1	2480	2.52	21	Pass					
NVNT	2-DH1	2402	2.24	21	Pass					
NVNT	2-DH1	2441	2.92	21	Pass					
NVNT	2-DH1	2480	3.30	21	Pass					
NVNT 🔇	3-DH1	2402	2.62	21	Pass					
NVNT	3-DH1	2441	3.43	21	Pass					
NVNT	3-DH1	2480	3.68	21	Pass					

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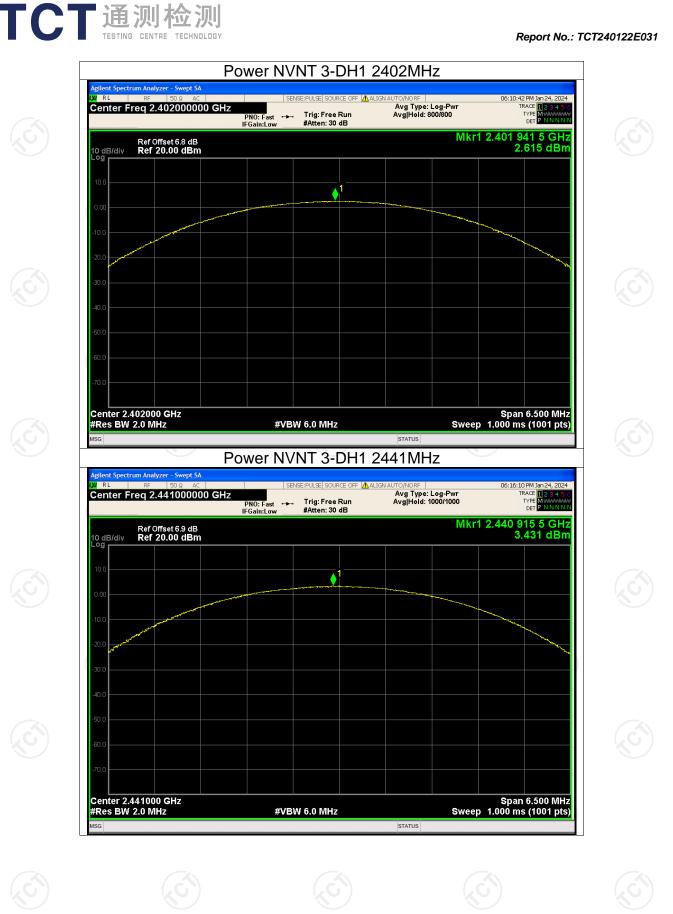


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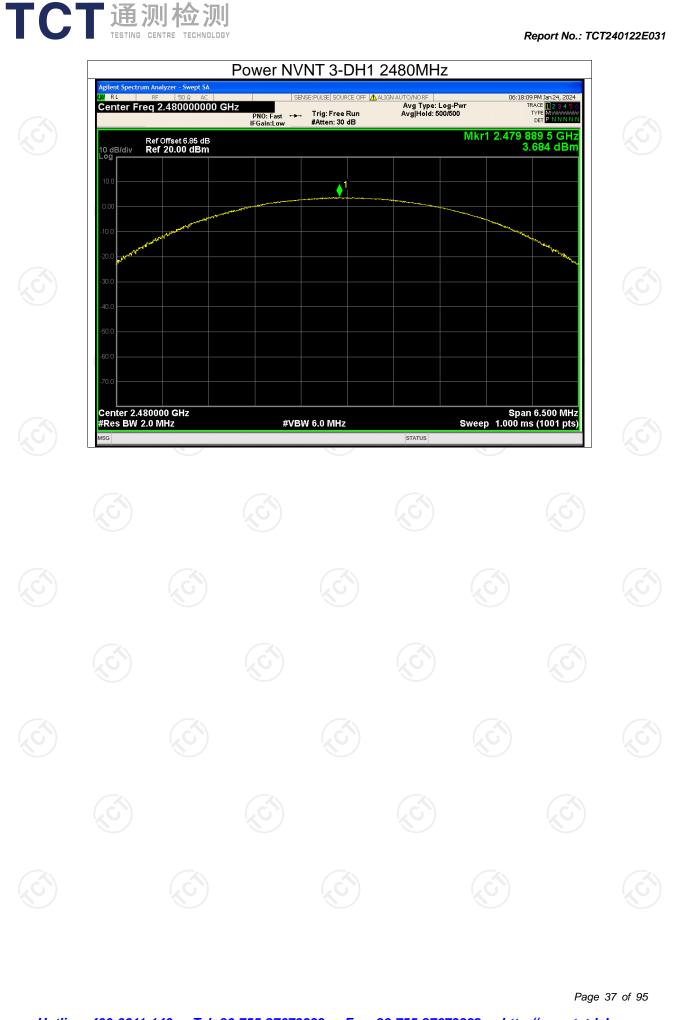




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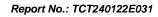
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Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	1.031	Pass
NVNT 🚫	1-DH1	2441	1.041	Pass
NVNT	1-DH1	2480	1.040	Pass
NVNT	2-DH1	2402	1.301	Pass
NVNT	2-DH1	2441	1.290	Pass
NVNT	2-DH1	2480	1.314	Pass
NVNT	3-DH1	2402	1.270	Pass
NVNT	3-DH1	2441	1.289	Pass
NVNT	3-DH1	2480	1.271	Pass
X	9)		KO)	•



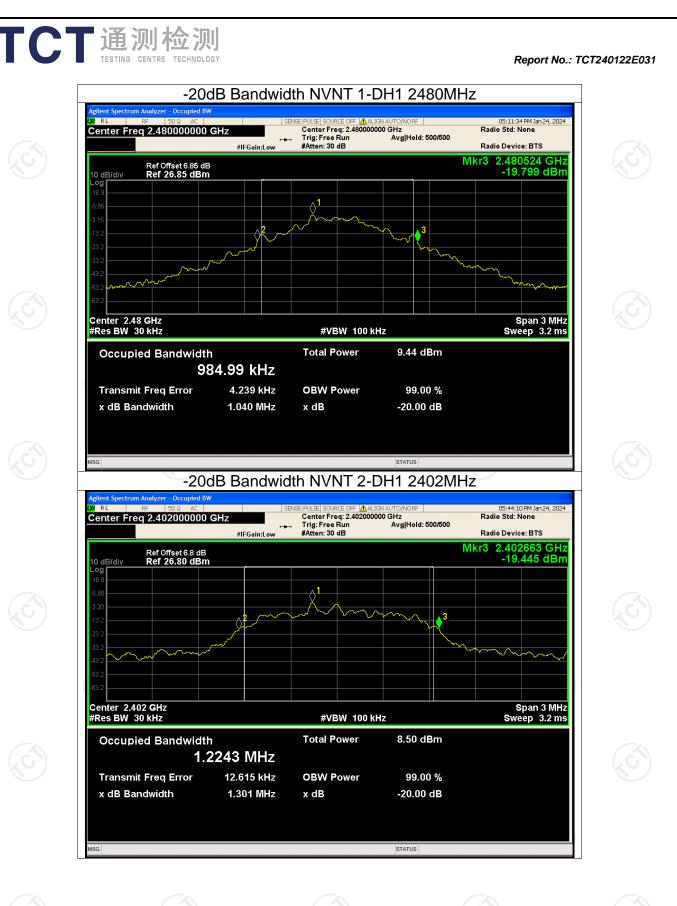




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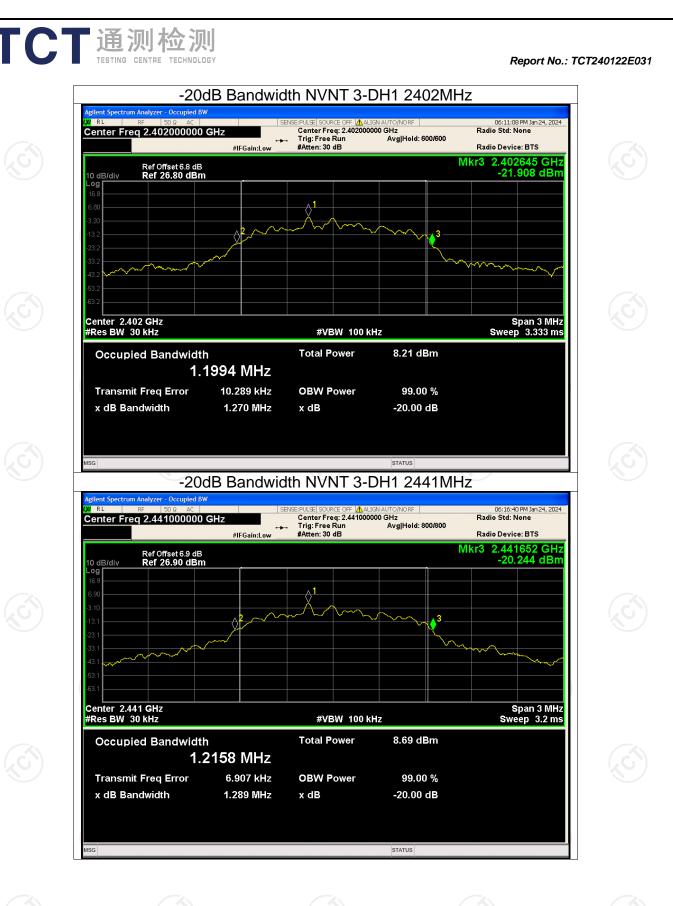


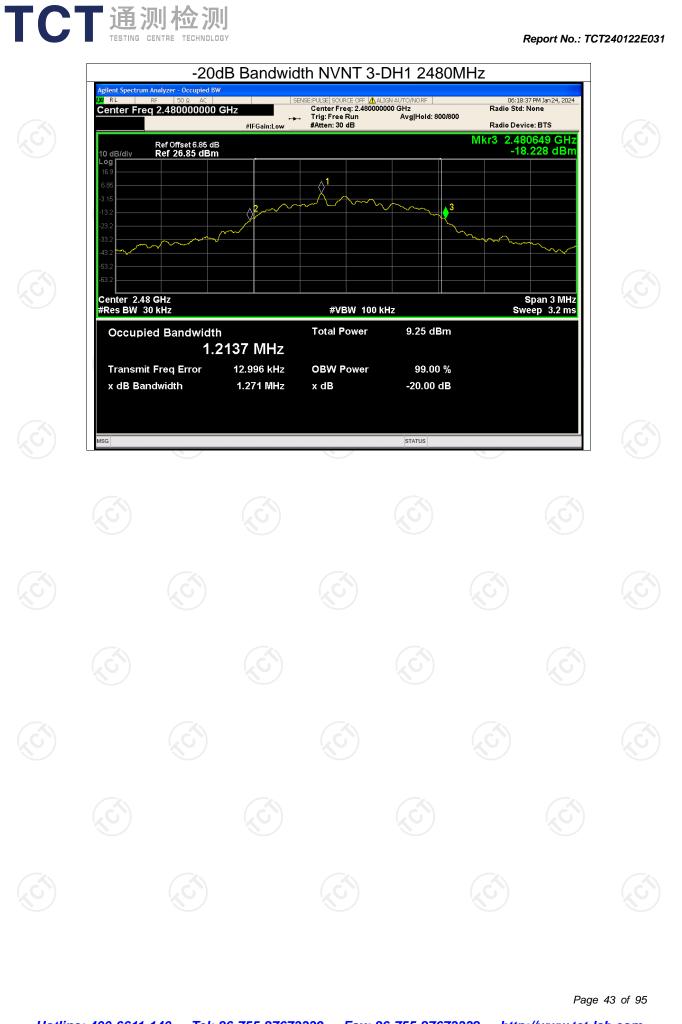
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Condition	Mode	(MHz)	(MHz)	(MHz)	(MHz)	Verdict
NVNT	1-DH1	2401.838	2402.828	0.990	0.694	Pass
NVNT	1-DH1	2440.840	2441.842	1.002	0.694	Pass
NVNT	1-DH1	2478.846	2479.842	0.996	0.694	Pass
NVNT	2-DH1	2401.846	2402.840	0.994	0.876	Pass
NVNT	2-DH1	2440.848	2441.838	0.990	0.876	Pass
NVNT 🐇	2-DH1	2478.850	2479.840	0.990	0.876	Pass
NVNT	3-DH1	2401.842	2402.838	0.996	0.859	Pass
NVNT	3-DH1	2440.838	2441.842	1.004	0.859	Pass
NVNT	3-DH1	2478.842	2479.840	0.998	0.859	Pass

## Carrier Frequencies Separation

F



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Limit

STATUS

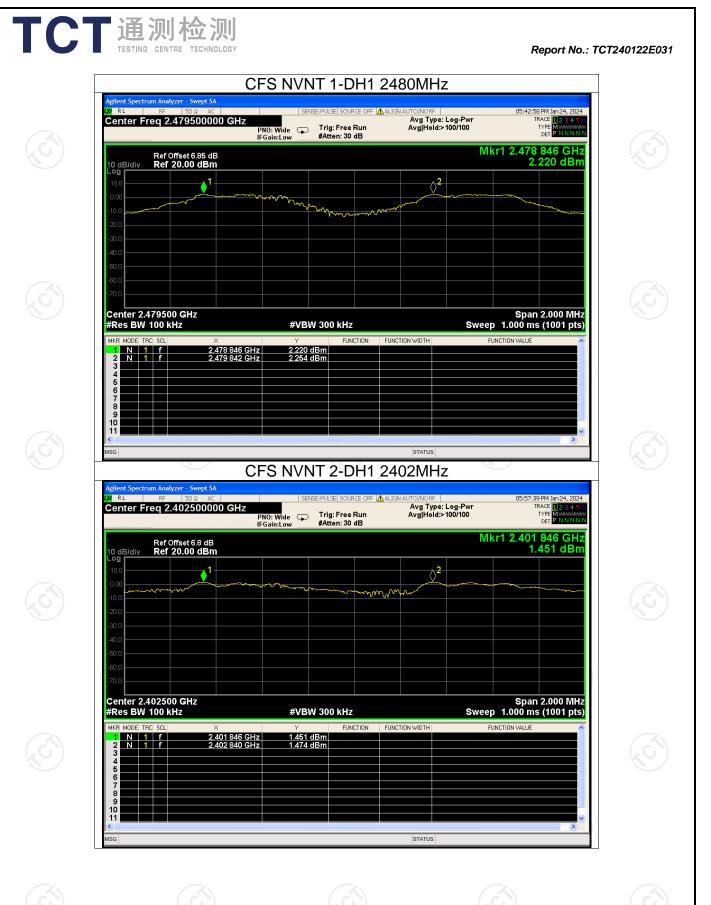


**ICT** 通测检测

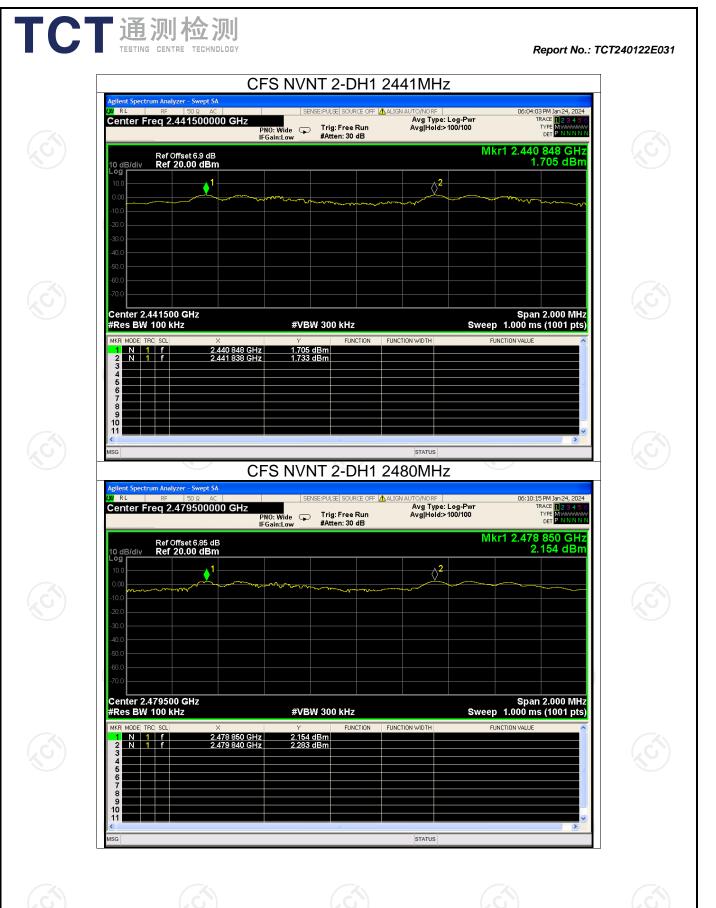
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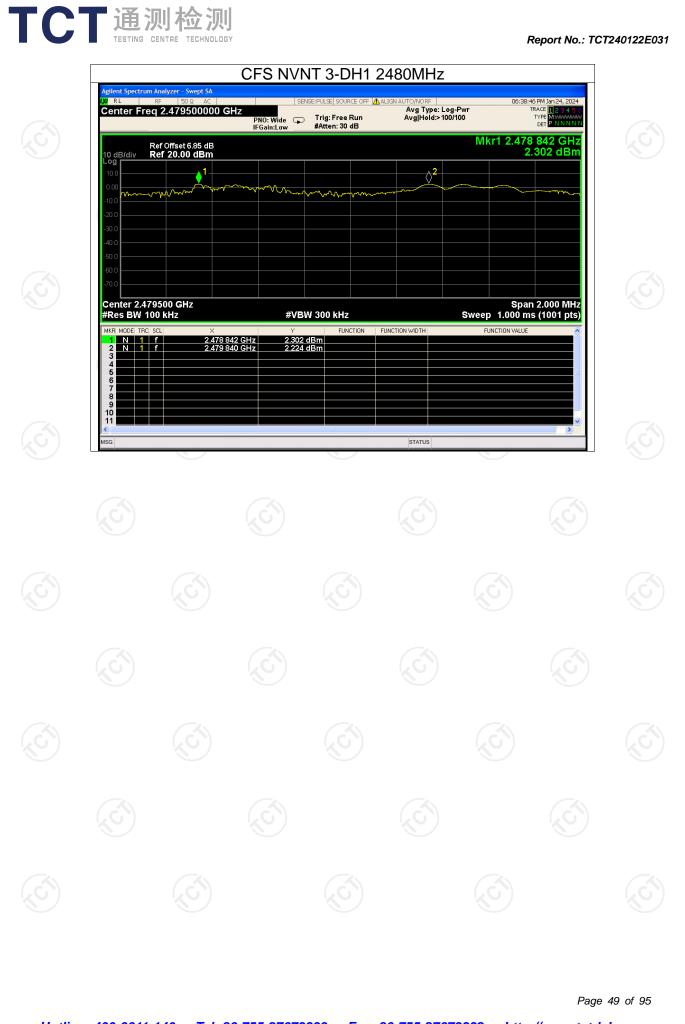
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Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-49.94	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-51.86	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-52.39	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-52.11	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-52.00	-20	Pass
NVNT 🐇	3-DH1	2480	No-Hopping	-52.11	-20	Pass

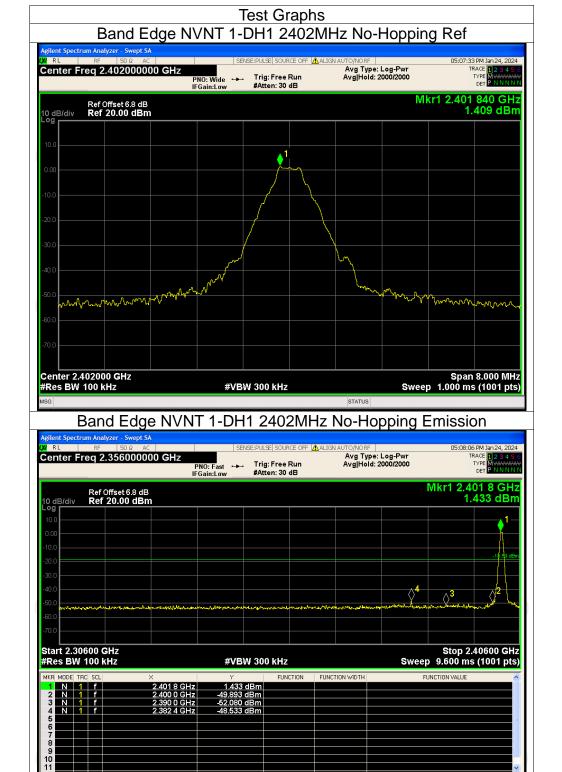
			Band Edge		·	
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Ver
NVNT	1-DH1	2402	No-Hopping	-49.94	-20	Pa
NVNT	1-DH1	2480	No-Hopping	-51.86	-20	Pa
NVNT	2-DH1	2402	No-Hopping	-52.39	-20	Pa
NVNT	2-DH1	2480	No-Hopping	-52.11	-20	Pa



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STATUS

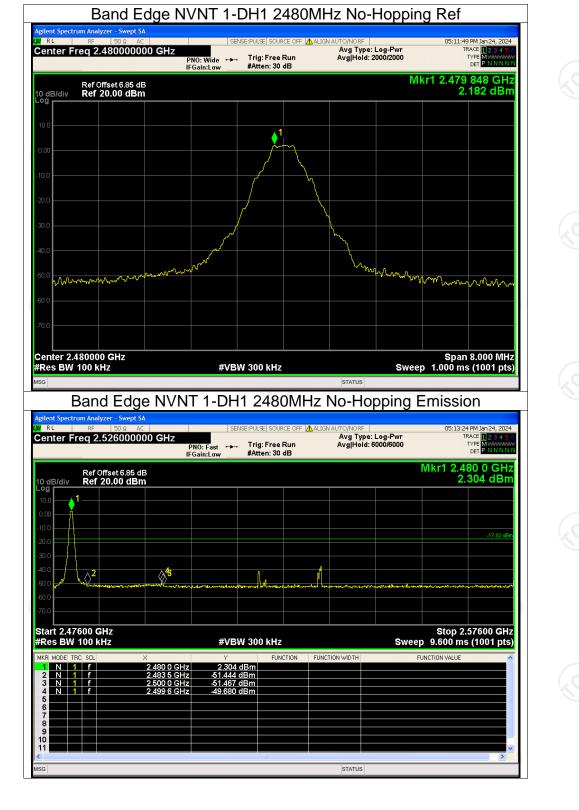


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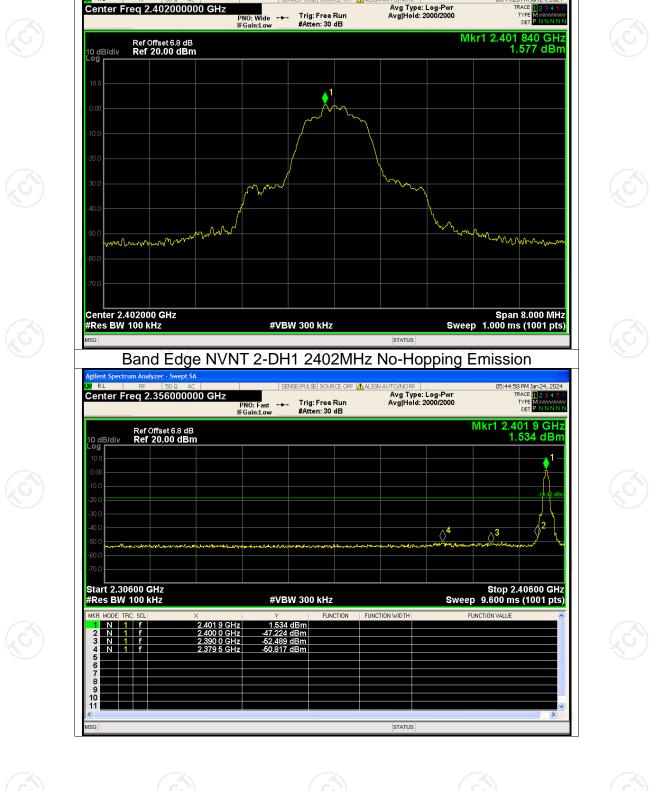
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Band Edge NVNT 2-DH1 2402MHz No-Hopping Ref

SENSE: PULSE SOURCE OFF 🛕 ALIGN A

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a RL

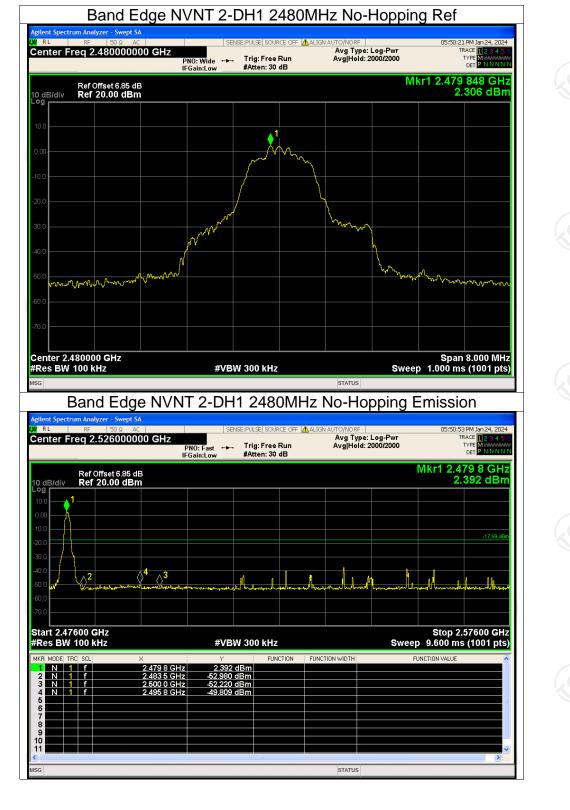
Center Freg 2.402000000 GHz

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TRACE

Report No.: TCT240122E031

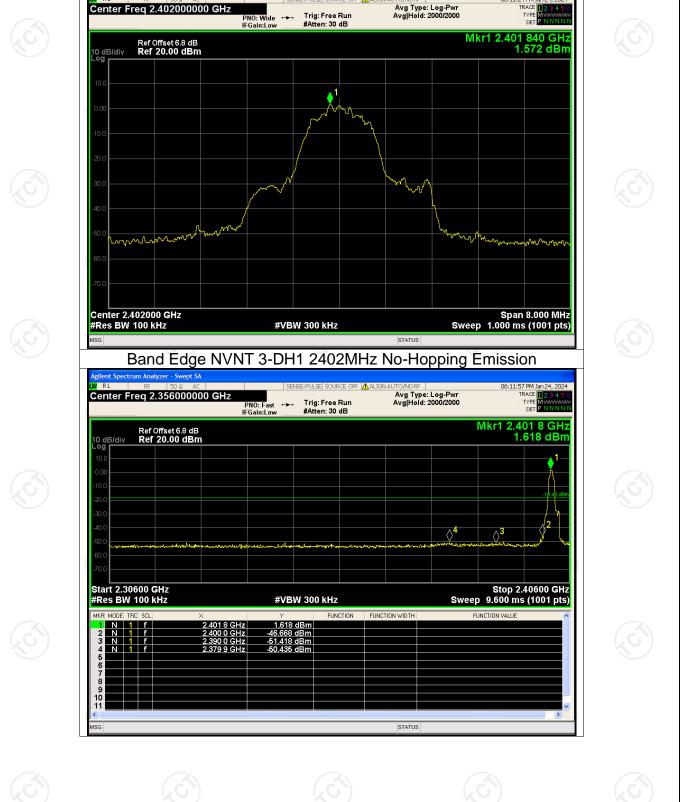


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Band Edge NVNT 3-DH1 2402MHz No-Hopping Ref

SENSE: PULSE SOURCE OFF ALIGN A

a RL

Report No.: TCT240122E031

06:11:24 PM Jan 24, 2024 TRACE 1 2 3 4 5

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STATUS

### Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE MWAAAAAAA DET P N N N N N Mkr1 2.479 848 GHz 2.241 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log **≜**<sup>1</sup> Mann Center 2.480000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS Band Edge NVNT 3-DH1 2480MHz No-Hopping Emission ent Spectr SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF RL 06:19:25 PM Jan 24, 2024 TRACE 1 2 3 4 5 6 TYPE MWWW DET P N N N N Center Freq 2.526000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 9 GHz 2.345 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log **r** <mark>∆2</mark> $\langle \rangle^4$ Start 2.47600 GHz #Res BW 100 kHz Stop 2.57600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH FUNCTION 2.345 dBm 53.365 dBm 52.103 dBm 49.875 dBm 2.483 5 GHz 2.500 0 GHz 2.491 5 GHz 1 f 1 f 1 f N 5

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

SENSE: PULSE SOURCE OFF 🛕 ALIGN A



Center Freg 2.480000000 GHz

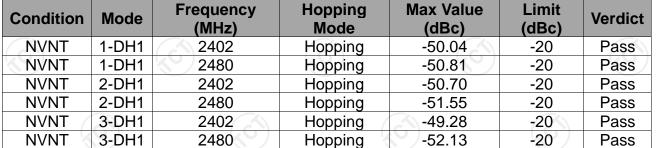
a RL

10

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06:18:53 PM Jan 24, 2024 TRACE 12 3 4 5



## **Band Edge(Hopping)**

Report No.: TCT240122E031

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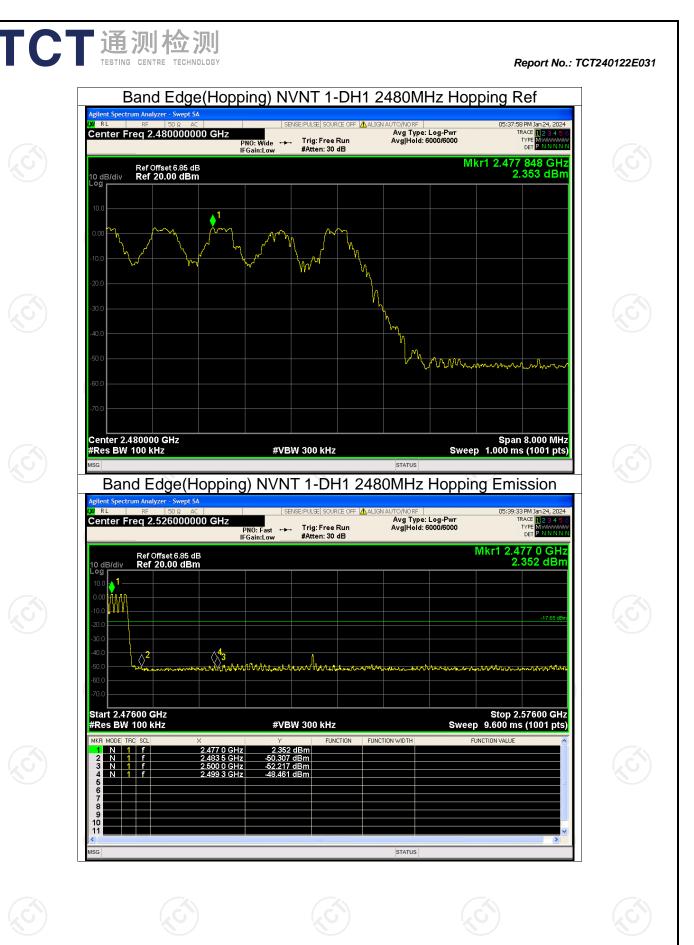


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Band Edge(Hopping) NVNT 2-DH1 2402MHz Hopping Ref

SENSE: PULSE SOURCE OFF ALIGN

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Center Freg 2.402000000 GHz

a RL

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## Mkr1 2.404 848 GHz 1.489 dBm Ref Offset 6.8 dB Ref 20.00 dBm 10 dB/div Log 1 $\mathcal{N}_{\mathcal{N}}$ mmmmm M AMA ma mar 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 3-DH1 2402MHz Hopping Emission SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF 06:25:03 PM Jan TRACE TYPE DET Center Freq 2.356000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.405 8 GHz 1.551 dBm Ref Offset 6.8 dB Ref 20.00 dBm 10 dB/div Log γwy $\Diamond^3$ (Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH FUNCTION 1.551 dBm -52.377 dBm -51.798 dBm -47.795 dBm 2.400 0 GHz 2.390 0 GHz 2.354 8 GHz Ň

Band Edge(Hopping) NVNT 3-DH1 2402MHz Hopping Ref

SENSE: PULSE SOURCE OFF ALIGN

PNO: Wide ↔→→ Trig: Free Run IFGain:Low #Atten: 30 dB Avg Type: Log-Pwr Avg|Hold: 9000/9000

Center Freg 2.402000000 GHz

a RL

Report No.: TCT240122E031

TDACE

TYPE MWWWWW DET P N N N N

<u>(C)</u>





STATUS



#### **Conducted RF Spurious Emission**

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict					
NVNT	1-DH1	2402	-41.81	-20	Pass					
NVNT	1-DH1	2441	-40.84	-20	Pass					
NVNT	1-DH1	2480	-42.62	-20	Pass					
NVNT	2-DH1	2402	-42.13	-20	Pass					
NVNT	2-DH1	2441	-47.98	-20	Pass					
NVNT	2-DH1	2480	-42.12	-20	Pass					
NVNT 🚫	3-DH1	2402	-41.75	-20	Pass					
NVNT	3-DH1	2441	-42.08	-20	Pass					
NVNT	3-DH1	2480	-41.53	-20	Pass					



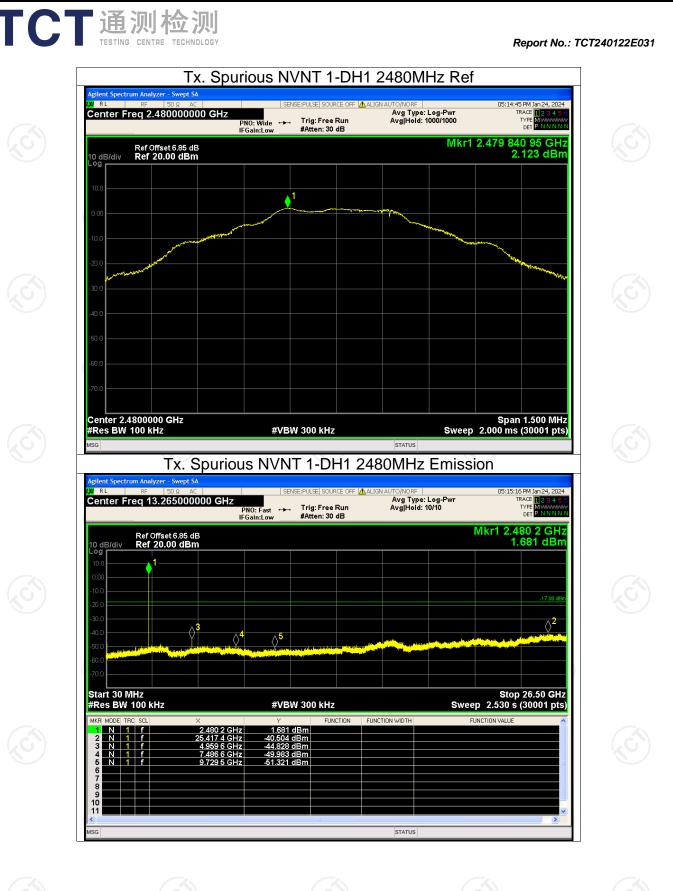
Report No.: TCT240122E031

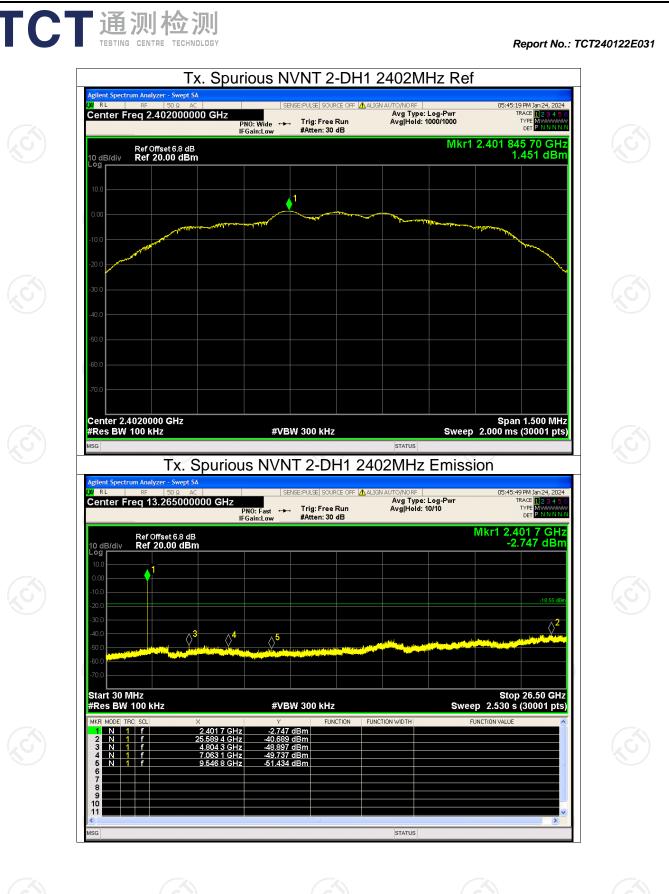
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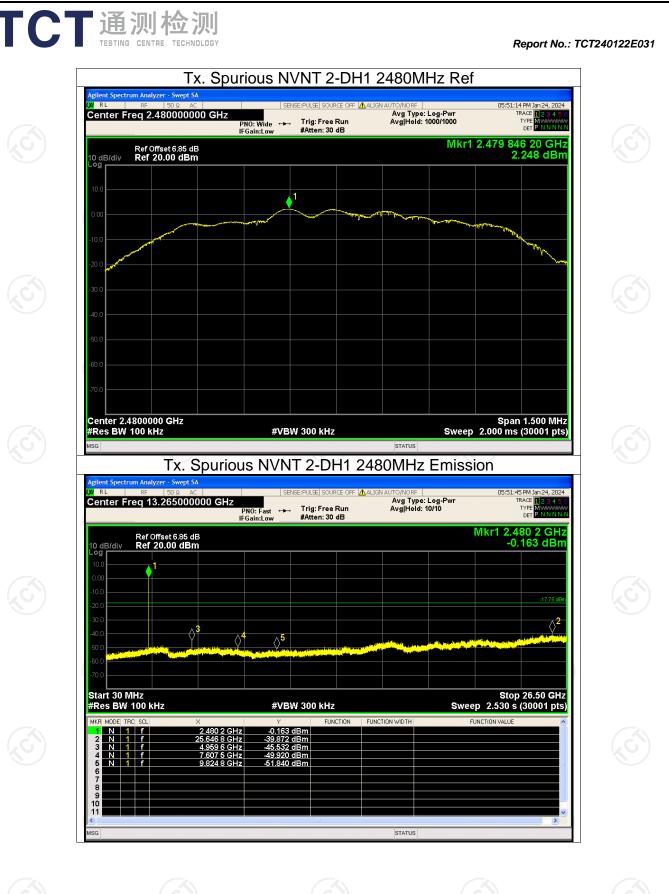




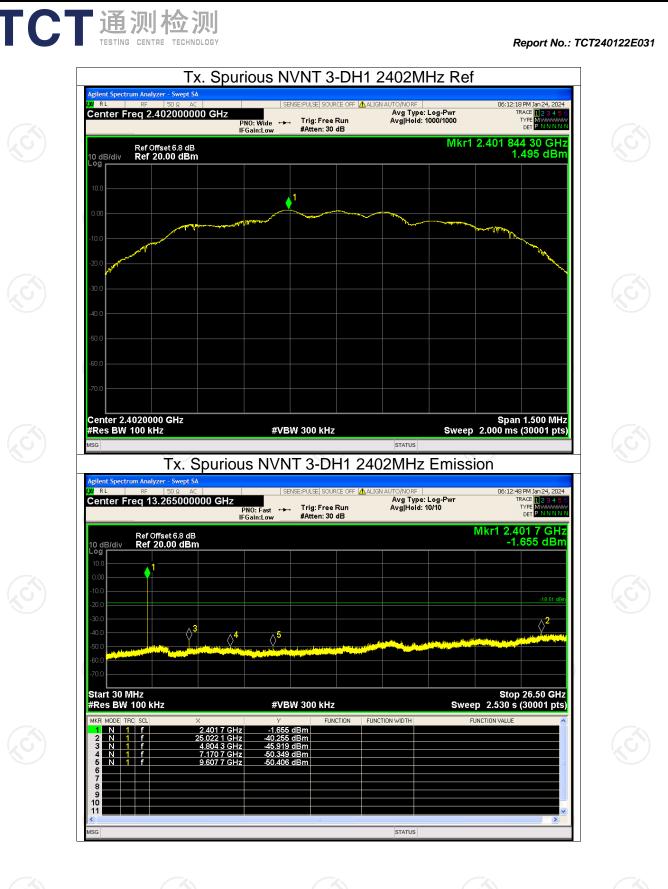
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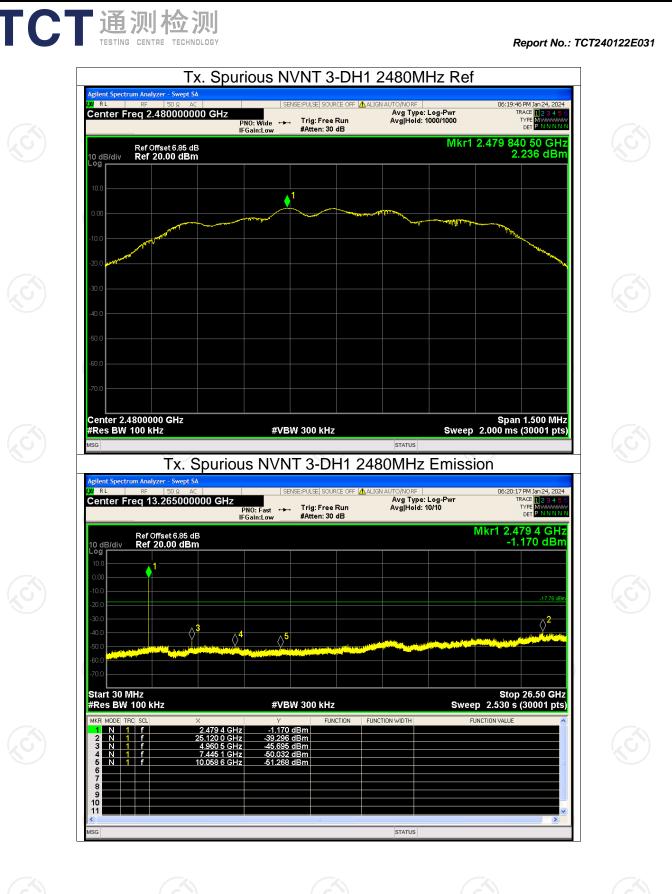
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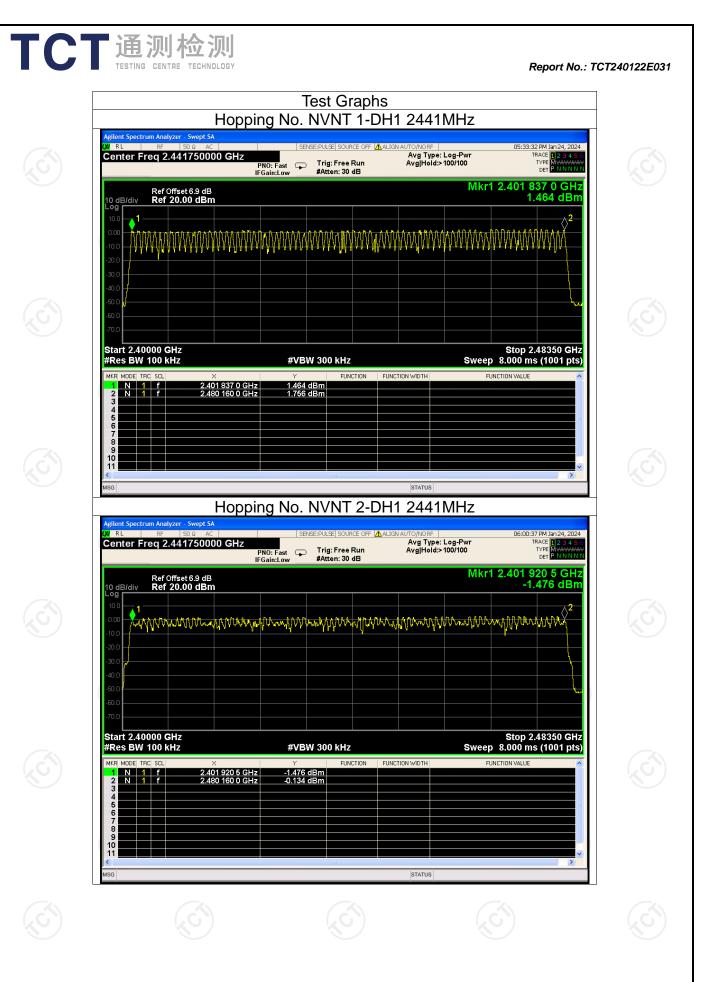


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ر ج	Condition NVNT NVNT NVNT	Mode           1-DH1           2-DH1           3-DH1	of Hopping Hopping N 79 79 79 79	lumber	Limit 15 15 15	Verd Pas Pas Pas	SS SS



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	n Analyzer - Swept SA RF 50 & AC eq 2.441750000 ( Ref Offset 6.9 dB Ref 20.00 dBm	SHz PNO: Fast IFGain:Low	NVNT 3-D	ALIGN AUTO/NORF Avg Type: Log Avg Hold>100/	06:31 Pwr 100 Mkr1 2.401 : -2	.178 dBm	
-50 0 -60 0 -70 0 #Res BW 1 MKR MDE TRC 1 N 1 3 4 5 6 6 6 7 7 8 9 9	00 kHz scl × f 2.401 50	Y 03 0 GHz -4.178	BW 300 kHz FUNCTION 8 dBm	FUNCTION WIDTH	Stop 5 Sweep 8.000 n	2.48350 GHz is (1001 pts)	
MSG				STATUS			

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	118.94	313	31600	400	Pass			
NVNT	1-DH3	2441	1.63	267.32	164	31600	400	Pass			
NVNT	1-DH5	2441	2.88	305.28	106	31600	400	Pass			
NVNT 🐇	2-DH1	2441	0.39	126.75	325	31600	400	Pass			
NVNT	2-DH3	2441	1.64	277.16	169	31600	400	Pass			
NVNT	2-DH5	2441	2.89	306.34	106	31600	400	Pass			
NVNT	3-DH1	2441	0.39	124.41	319	31600	400	Pass			
NVNT	3-DH3	2441	1.64	273.88	167	31600	400	Pass			
NVNT	3-DH5	2441	2.89	326.57	113	31600	400	Pass			









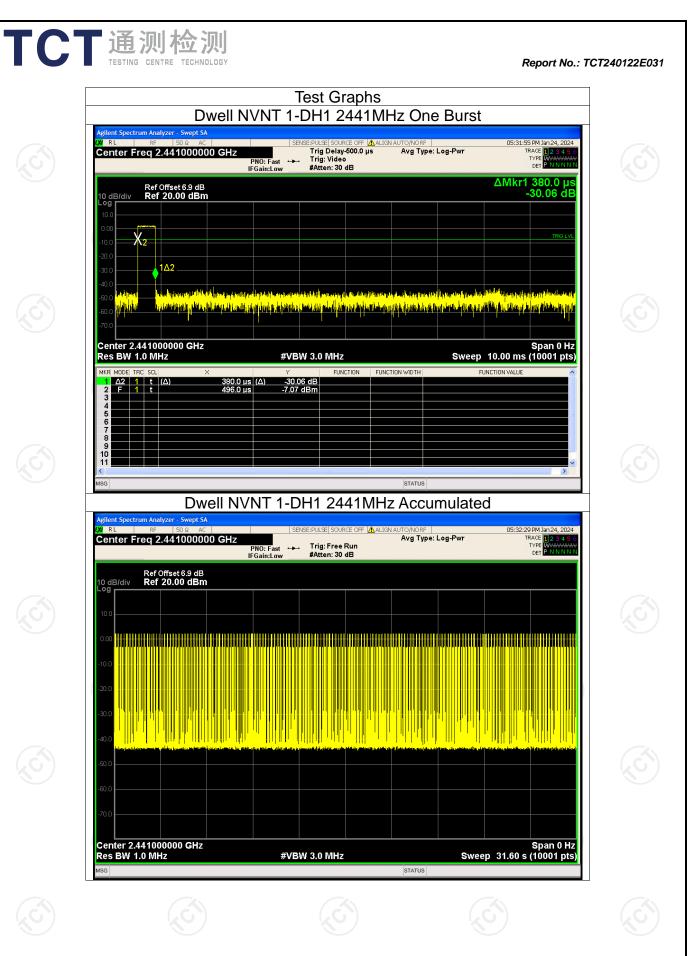


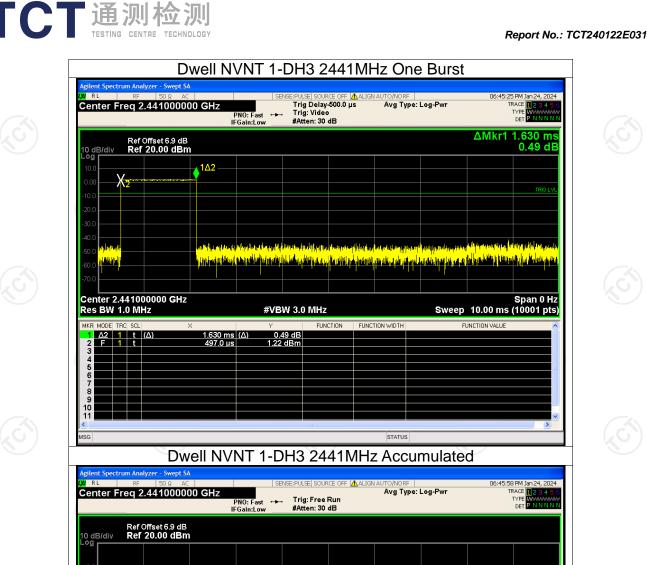




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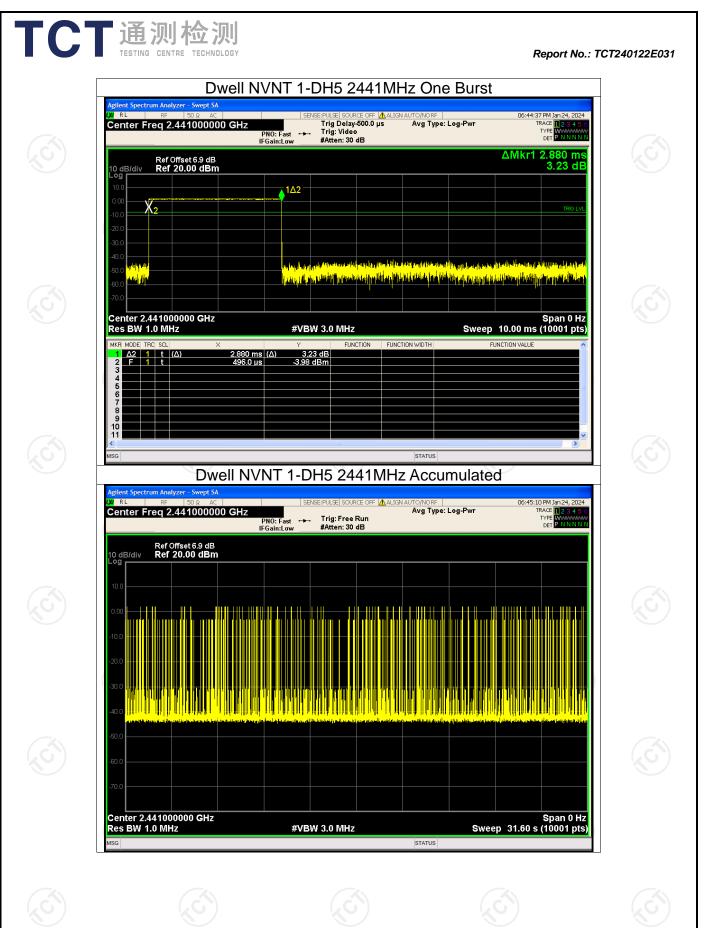
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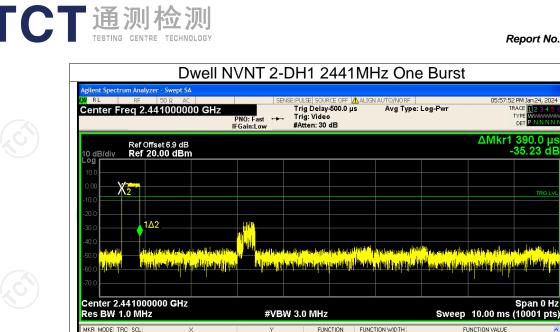






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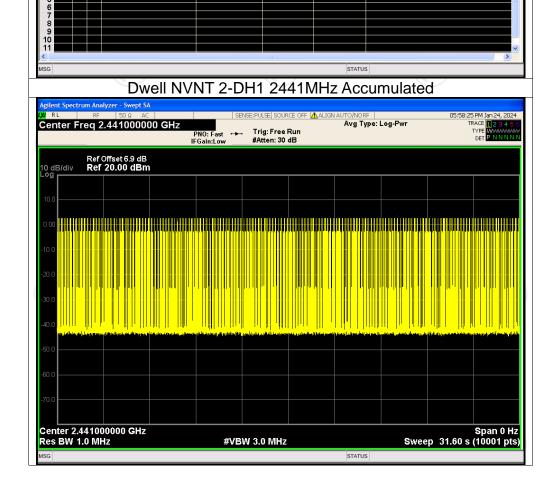


-35.23 dB -1.35 dBm

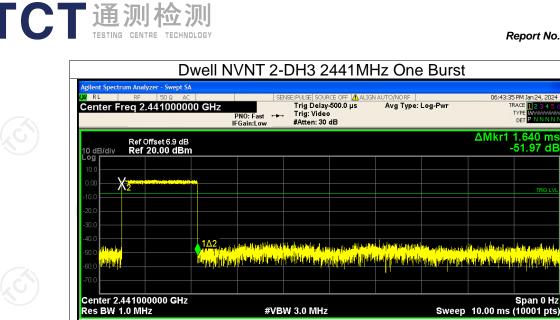
390.0 μs (Δ) 497.0 μs

Δ2 1 t (Δ) F 1 t

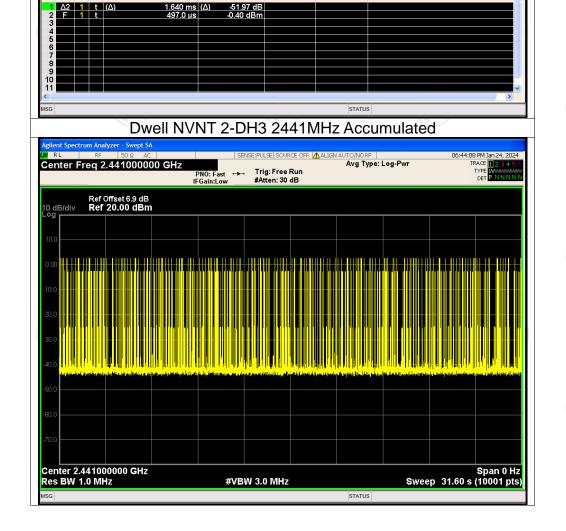
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