	TEST REPC	DRT		
FCC ID	2ASDT-TT24			
Test Report No:	TCT231012E004			
Date of issue:	Oct. 23, 2023			
Testing laboratory: :	SHENZHEN TONGCE TES	TING LAB		
Testing location/ address:	2101 & 2201, Zhenchang F Subdistrict, Bao'an District, People's Republic of China			
Applicant's name: :	ClearClick Software LLC			
Address:	3006 Teak Place, Fullerton	, California, 9283	5, United States	
Manufacturer's name :	Jiangxi Jiayinking Culture T	echnology Comp	any Limited	
Address:		K3-17, Electronical Information Science and Technology Park, Longnan Technical Economic Development Area, Ganzhou City, Jiangxi Province, China		
Standard(s):	FCC CFR Title 47 Part 15 S FCC KDB 558074 D01 15.2 ANSI C63.10:2013			
Product Name::	VINTAGE TURNTABLE			
Trade Mark :	N/A	$\langle \mathcal{O} \rangle$	(\mathcal{G})	
Model/Type reference :	TT24, TT509-8, TT509-8A,	TT509-8B, TT50	9-8C, TT509-8D	
Rating(s):	Refer to EUT description of	page 3		
Date of receipt of test item	Oct. 12, 2023			
Date (s) of performance of test:	Oct. 12, 2023 - Oct. 23, 202	23		
Tested by (+signature) :	Onnado YE	Onnado	TRIGCE	
Check by (+signature) :	Beryl ZHAO	Bayl A	TCT	
Approved by (+signature):	Tomsin	Tomsi	45 84	

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1. General Product Information

1.1. EUT description

Product Name:	VINTAGE TURNTABLE		(\mathbf{c}^{*})
Model/Type reference:	TT24		
Sample Number	TCT231012E004-0101		
Bluetooth Version:	V5.0	No.	
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:	3.38dBi		$\langle \mathcal{O} \rangle$
Rating(s):	Adapter Information 1: MODEL: GKYZA0200050US INPUT: AC 100-240V, 50/60Hz, 0.5A MAX OUTPUT: DC 5V, 2000mA Adapter Information 2: MODEL: XB12B-0502000U INPUT: AC 100-240V, 50/60Hz, 0.8A Max OUTPUT: DC 5.0V, 2.0A, 10.0W		

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.		Model No.		Tested with
(c ¹)	(C)	TT24	(C)	
Other models	TT509-8, TT509-8	A, TT509-8B, TT509-	8C, TT509-8D	
	trical circuit, only different	e derivative models. All th nee on appearance and c		
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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
<u> </u>		·		·		·	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	S		.		S		S
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, π/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.

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3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	23.5 °C	24.1 °C
Humidity:	52 % RH	54 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
To at O afferrance	·	•

Test Software:

Software Information:	FrequencyTool_v0.2.8	
Power Level:	0	

Test Mode:

Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations.
Engineer mode:	

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
/	/	/	/	/

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

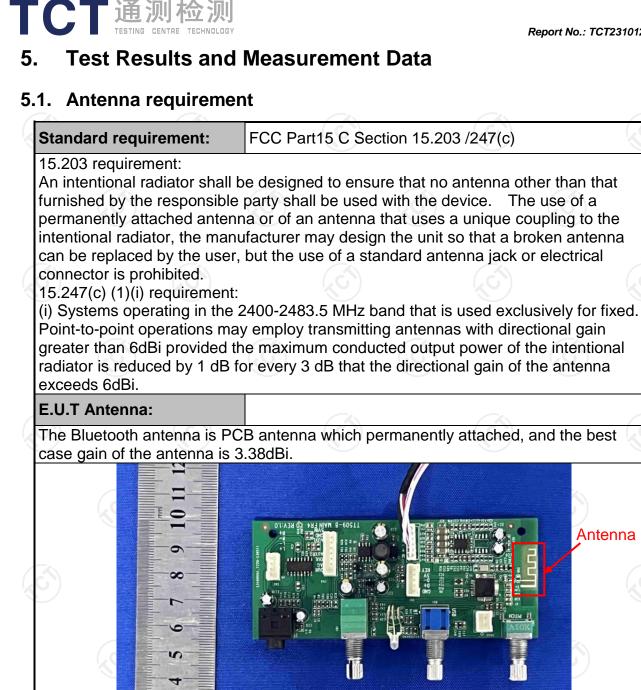
SHENZHEN TONGCE TESTING LAB

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



2

Antenna

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5.2. Conducted Emission

5.2.1. Test Specification

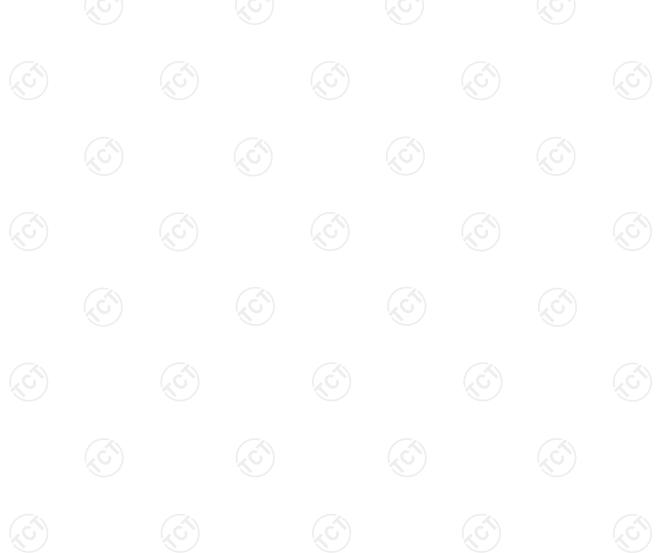
Test Requirement:	FCC Part15 C Section	15.207	No.
Test Method:	ANSI C63.10:2013		
Frequency Range:	150 kHz to 30 MHz	\mathcal{C}	
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto
	Frequency range	Limit (dBuV)
	(MHz)	Quasi-peak	Áverage
Limits:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	Reference	e Plane	
Test Setup:	E.U.T AC powe		r AC power
	Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization No Test table height=0.8m	EMI Receiver	
Test Mode:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m Transmitting Mode	Receiver	
Test Mode: Test Procedure:	 EUT: Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m Transmitting Mode 1. The E.U.T is connerimpedance stabilizing provides a 500hm/5 measuring equipment 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables 	Receiver etwork cted to an adapte ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm tern diagram of the line are checken nce. In order to fin e positions of equi must be changed	(L.I.S.N.). This pedance for the ected to the mains a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum ipment and all of according to
	 E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m Transmitting Mode The E.U.T is conne impedance stabiliz provides a 50ohm/5 measuring equipment The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative 	Receiver etwork cted to an adapte ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm tern diagram of the line are checken nce. In order to fin e positions of equi must be changed	(L.I.S.N.). This pedance for the ected to the mains a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum ipment and all of 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	
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

5.1219

7.4740

7.4740

Q.P. =Quasi-Peak

8

9

10

11 12 9.76

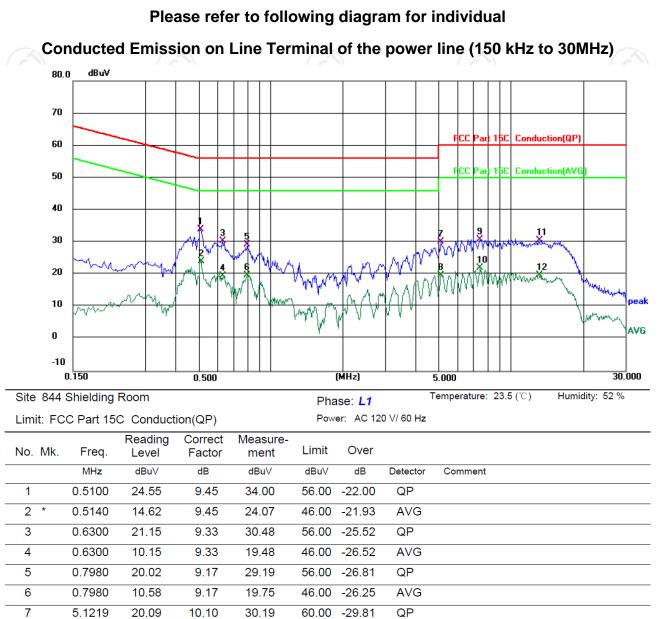
20.81

11.96

10.10

10.11

10.11



50.00 -30.14

60.00 -29.08

-27.93

50.00

AVG

QP

AVG

11	13.2420	20.51	10.16	30.67	60.00	-29.33	QP		
12	13.2420	9.55	10.16	19.71	50.00	-30.29	AVG		
No	te:			(c)			(\mathbf{c})		
	Freq. = Emiss	sion freque	ency in MH.	z					
	Reading level	l (dBµV) =	Receiver r	reading					
	Corr. Factor (dB) = LIS	N factor + C	Cable loss					
	Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)								
	Limit ($dB\mu V$) = Limit stated in standard								
	Margin (dB) =	Measure	ment (dBµ\	V) – Limits	(dBµV)				

19.86

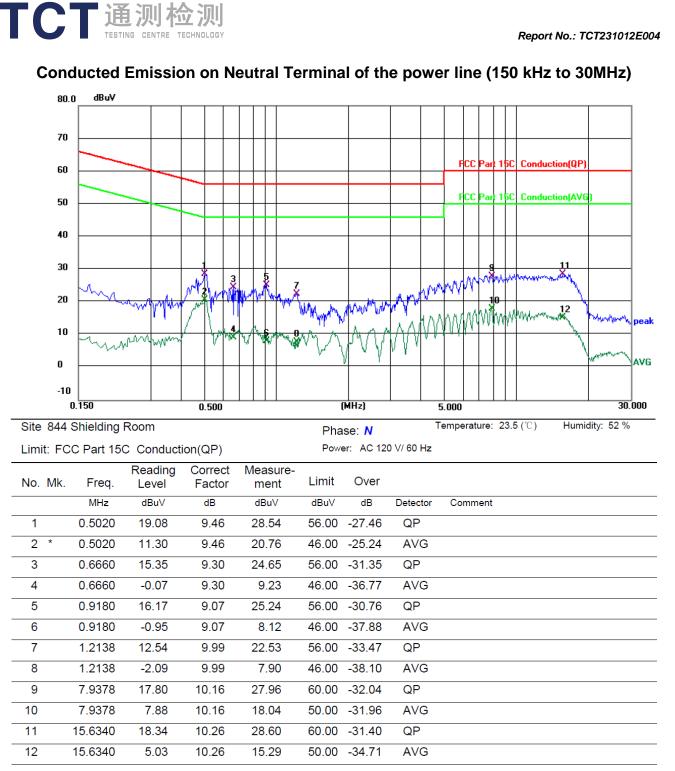
30.92

22.07

AVG =average * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

Corr. Factor (dB) = LISN factor + Cable loss

Measurement $(dB\mu V) = Reading \ level \ (dB\mu V) + Corr. \ Factor \ (dB)$

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

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Note2:

Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Lowest channel and 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	47 (b)(1)
Test Method:	KDB 558074 D01 v05r02	
Limit:	Section 15.247 (b) The maxi power of the intentional radia following: (1) For frequency in the 2400-2483.5 MHz bar non-overlapping hopping ch hopping systems in the 5728 For all other frequency hopp 2400-2483.5 MHz band 0.12	hopping systems operating nd employing at least 75 annels, and all frequency 5-5850 MHz band: 1 watt. bing systems in the
Test Setup:	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with mod	Julation
Test Procedure:	centered on a hopping chan RBW > the 20 dB bandwidth measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize.	mes the 20 dB bandwidth, nel
Test Result:	PASS	

5.3.2. Test Instruments

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





5.4. 20dB Occupy Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	N/A					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 					
Test Result:	PASS					

5.4.2. Test Instruments

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



5.5. Carrier Frequencies Separation

5.5.1. Test Specification

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

5.5.2. Test Instruments

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

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5.6. Hopping Channel Number

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report.
Test Result:	PASS

5.6.2. Test Instruments

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

5.7. Dwell Time

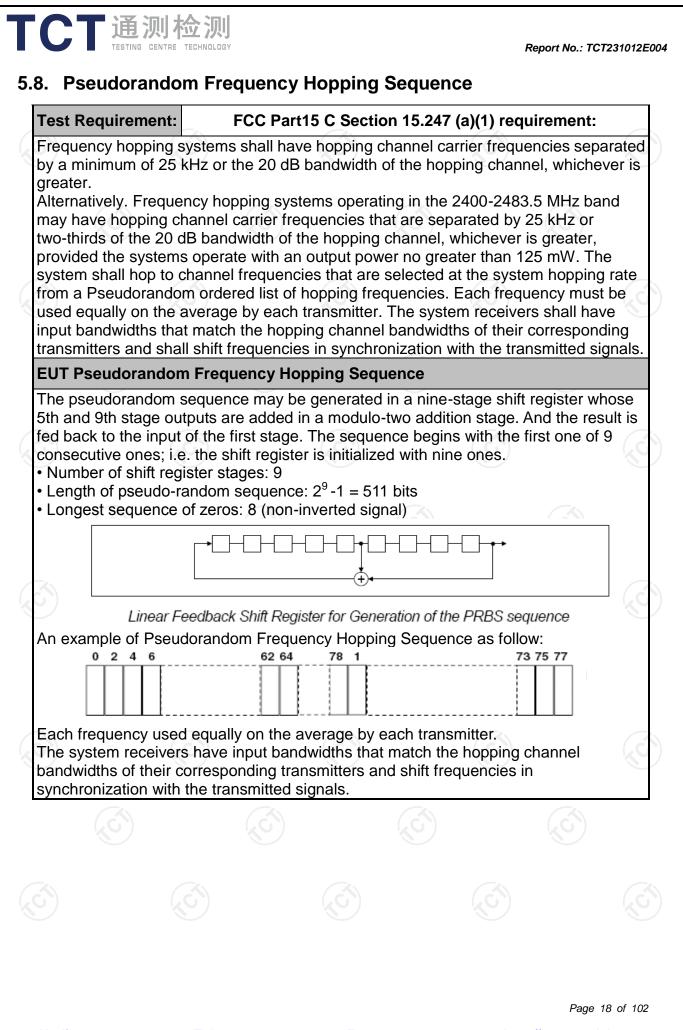
5.7.1. Test Specification

FCC Part15 C Section 15.247 (a)(1)
KDB 558074 D01 v05r02
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Spectrum Analyzer EUT
Hopping mode
 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
PASS

5.7.2. Test Instruments

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

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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:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
Test Result:	PASS

5.9.2. Test Instruments

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



5.10. Conducted Spurious Emission Measurement

5.10.1. Test Specification

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

5.10.2. Test Instruments

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

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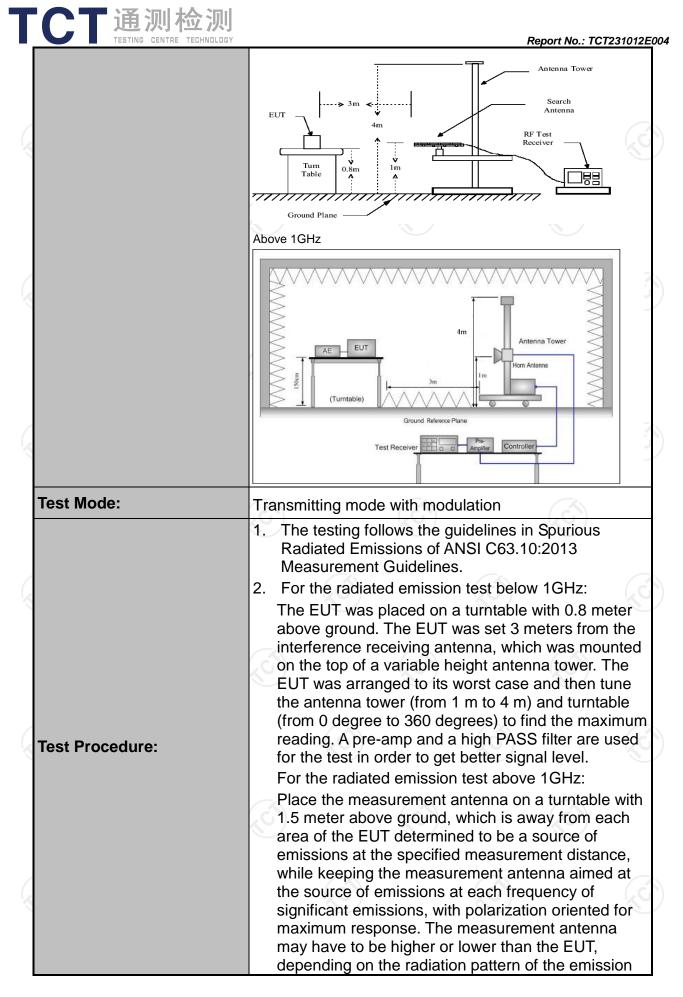




5.11.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

	FCC Part15	C Sectior	15.209			8
Test Method:	ANSI C63.10):2013				
Frequency Range:	9 kHz to 25 (GHz				
Measurement Distance:	3 m	X	9		R.	
Antenna Polarization:	Horizontal &	Vertical				
	Frequency	Detector	RBW	VBW		Remark
	9kHz- 150kHz	Quasi-peal		1kHz		i-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peal	k 9kHz	30kHz	Quas	i-peak Value
· · · · · · ·	30MHz-1GHz	Quasi-peal	k 120KHz	300KHz	Quas	i-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
		Peak	1MHz	10Hz	Ave	rage Value
	Frequen		Field Str	ength		asurement
			(microvolts) 2400/F(I		Distar	nce (meters)
		0.009-0.490				300
	0.490-1.7		24000/F((KHz)		30
	1.705-3		30		30	
	88-216	6	150		3	
.imit:	216-96		200		3	
	Above 9		500			3
	Frequency Above 1GH2	(micro	d Strength ovolts/meter) 500 5000	Distant (meter 3 3		
Test setup:	For radiated emis	stance = 3m	30MHz		Comput	
	(



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	receiving the maxim measurement anter maximizes the emission antenna elevation for restricted to a range above the ground of 3. Set to the maximu EUT transmit contin 4. Use the following s (1) Span shall wide emission being (2) Set RBW=120 for f>1GHz ; VI Sweep = auto = max hold for (3) For average m	pectrum analyzer setting e enough to fully capture g measured; kHz for f < 1 GHz, RBW BW≥RBW; b; Detector function = pea	at which nt shall be to 4 m e. nable the gs: e the /=1MHz ak; Trace
	On time =N1*L Where N1 is r length of type Average Emis Level + 20*log Corrected Read	sion Level = Peak Emis g(Duty cycle) ding: Antenna Factor + 0	, L1 is sion Cable
Test results:	On time =N1*L Where N1 is r length of type Average Emis Level + 20*log Corrected Read	number of type 1 pulses, 1 pulses, etc. ssion Level = Peak Emis g(Duty cycle)	, L1 is sion Cable
Test results:	On time =N1*L Where N1 is r length of type Average Emis Level + 20*log Corrected Read Loss + Read Lo	number of type 1 pulses, 1 pulses, etc. ssion Level = Peak Emis g(Duty cycle) ding: Antenna Factor + 0	, L1 is sion Cable
Test results:	On time =N1*L Where N1 is r length of type Average Emis Level + 20*log Corrected Read Loss + Read Lo	number of type 1 pulses, 1 pulses, etc. ssion Level = Peak Emis g(Duty cycle) ding: Antenna Factor + 0	, L1 is sion Cable
Test results:	On time =N1*L Where N1 is r length of type Average Emis Level + 20*log Corrected Read Loss + Read Lo	number of type 1 pulses, 1 pulses, etc. ssion Level = Peak Emis g(Duty cycle) ding: Antenna Factor + 0	, L1 is sion Cable



5.11.2. Test Instruments

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



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5.11.3. Test Data

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Please refer to following diagram for individual



Site #2 3m Anechoic ChamberPolarization:HorizontalTemperature: 24.1(C)Humidity: 54 %

Limit: FCC Part 15C RE_3m

Power: AC 120 V/ 60 Hz

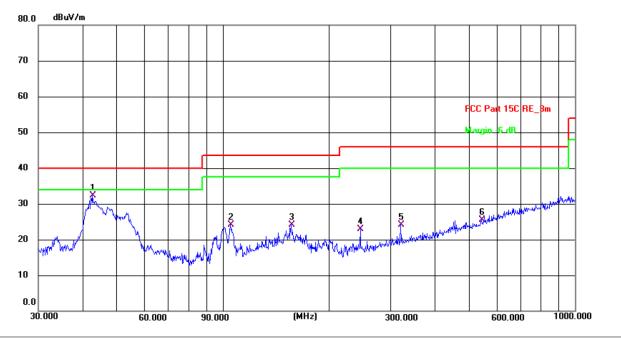
1										
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	39.2991	5.54	14.35	19.89	40.00	-20.11	QP	Ρ	
	2	56.1974	6.54	13.49	20.03	40.00	-19.97	QP	Ρ	
	3	152.1297	5.17	14.99	20.16	43.50	-23.34	QP	Ρ	
	4 *	319.9369	15.87	15.35	31.22	46.00	-14.78	QP	Р	
	5	457.5072	8.73	18.54	27.27	46.00	-18.73	QP	Ρ	
	6	640.6109	6.55	22.38	28.93	46.00	-17.07	QP	Ρ	

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Report No.: TCT231012E004

Vertical:

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

Limit: FCC Part 15C RE_3m

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	42.7495	18.48	13.87	32.35	40.00	-7.65	QP	Ρ	
2	105.2717	12.53	11.48	24.01	43.50	-19.49	QP	Ρ	
3	156.4577	9.18	14.95	24.13	43.50	-19.37	QP	Ρ	
4	245.9509	9.83	12.98	22.81	46.00	-23.19	QP	Ρ	
5	319.9369	8.80	15.35	24.15	46.00	-21.85	QP	Ρ	
6	543.2742	5.40	20.08	25.48	46.00	-20.52	QP	Ρ	

Power: AC 120 V/ 60 Hz

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

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and 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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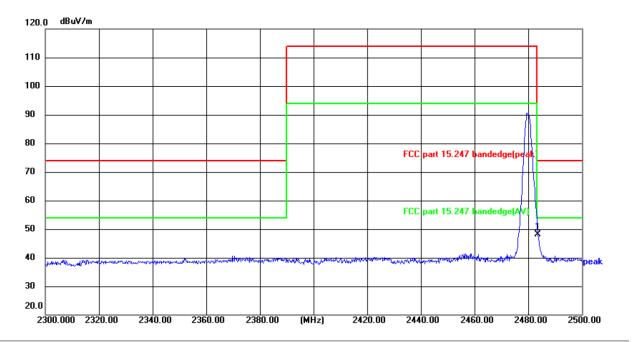
Report No.: TCT231012E004

Report No.: TCT231012E004 Test Result of Radiated Spurious at Band edges Lowest channel 2402: Horizontal: dBu∀/m 120.0 110 100 90 80 FCC part 15.247 b andedge(peal 70 60 FCC part 15.247 bandedge(AV) 50 40 march and mahana and the set eak 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: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.3(℃) Humidity: 52 % Power:AC 120 V/ 60 Hz Limit: FCC part 15.247 bandedge(peak) Frequency Reading Factor Level Limit Margin P/F No. Detector Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) 1 * 2390.000 55.87 -16.53 39.34 74.00 -34.66 Ρ peak Page 27 of 102

Report No.: TCT231012E004 Vertical: 120.0 dBu¥/m 110 100 90 80 FCC part 15.247 bandedge(peal 70 60 FCC part 15.247 bandedge(AV 50 40 maymment www. peak 30 20.0 2360.00 2300.000 2320.00 2340.00 2380.00 (MHz) 2420.00 2440.00 2460.00 2480.00 2500.00 Temperature: 23.3(℃) Humidity: 52 % Site: #3 3m Anechoic Chamber Polarization: Vertical Power:AC 120 V/ 60 Hz Limit: FCC part 15.247 bandedge(peak) Frequency Reading Factor Level Limit Margin Detector P/F Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 2390.000 55.01 -16.53 1 * 38.48 74.00 -35.52 peak Ρ Page 28 of 102 Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Highest channel 2480:

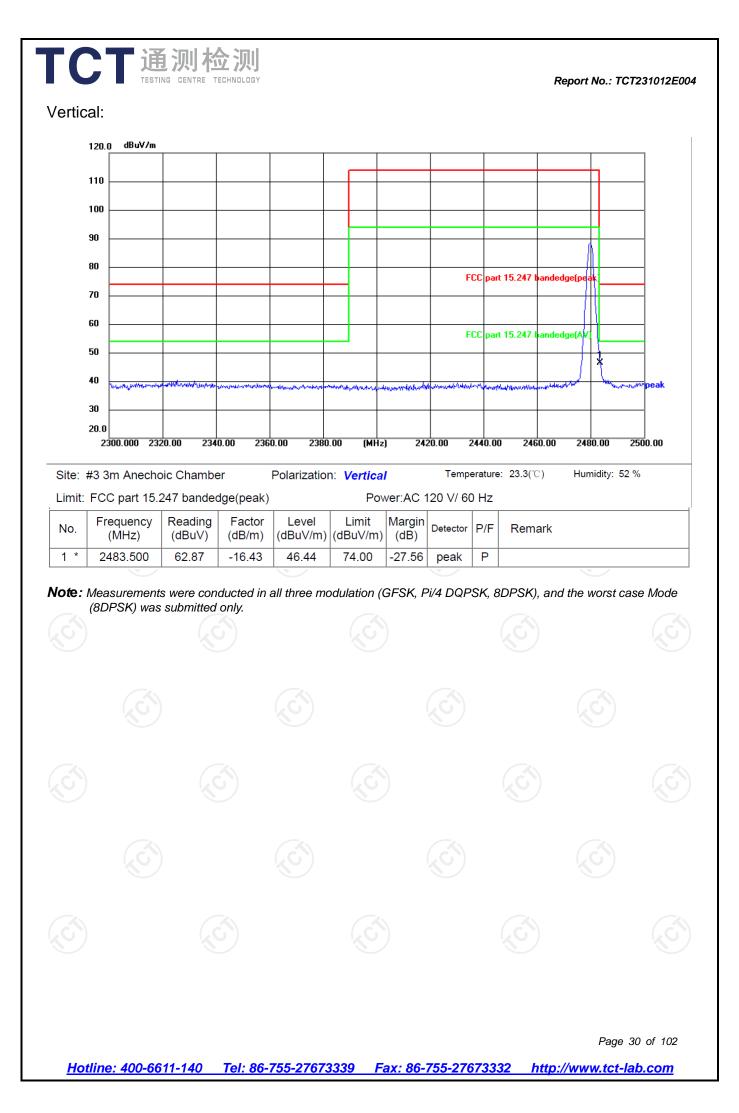
Horizontal:



Site: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.3(℃) Humidity: 52 % Limit: FCC part 15.247 bandedge(peak) Power:AC 120 V/ 60 Hz Level Reading Frequency Factor Limit Margin Detector P/F No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 2483.500 64.67 -16.43 74.00 -25.76 1 * 48.24 Ρ peak



Report No.: TCT231012E004



Above 1GHz

Modulation	Type: 8D	PSK							
Low chann	el: 2402 M	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	46.27		0.66	46.93		74	54	-7.07
7206	Н	37.80		9.50	47.30		74	54	-6.70
	Н					~~~			
	<u> </u>		JJ)	`)		· C`)		(\mathcal{O})	
4804	V	45.64		0.66	46.30		74	54	-7.70
7206	V	35.18		9.50	44.68		74	54	-9.32
	V								

Middle cha	nnel: 2441	MHz		X)		10)		N N
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	H	45.35		0.99	46.34	<	74	54	-7.66
7323	ζ ^O Ĥ	35.91	1,0	9.87	45.78	0	74	54	-8.22
	Ĥ								
			n						
4882	V	47.56		0.99	48.55		74	54	-5.45
7323	V	36.03		9.87	45.90		74	54	-8.10
<u> </u>	V			X	//				

High channel: 2480 MHz

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r light chan			A \ /		– · ·			1	
Frequency		Peak reading	AV reading	Correction Factor	Peak		Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dĒ)
4960	Н	45.49		1.33	46.82		74	54	-7.18
7440	Н	35.72		10.22	45.94		74	54	-8.06
	Н								
G)		(.G)		0.)			(.c.)		. .
4960	V	43.60		1.33 🔪	44.93		74	54	-9.07
7440	V	34.24		10.22	44.46		74	54	-9.54
	V								

Note:

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

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

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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

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

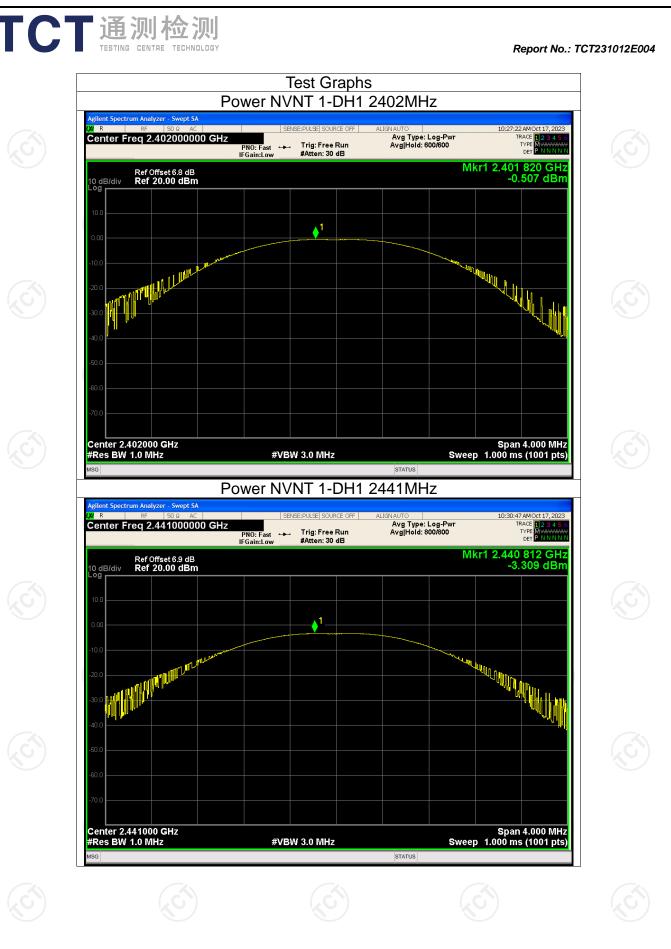
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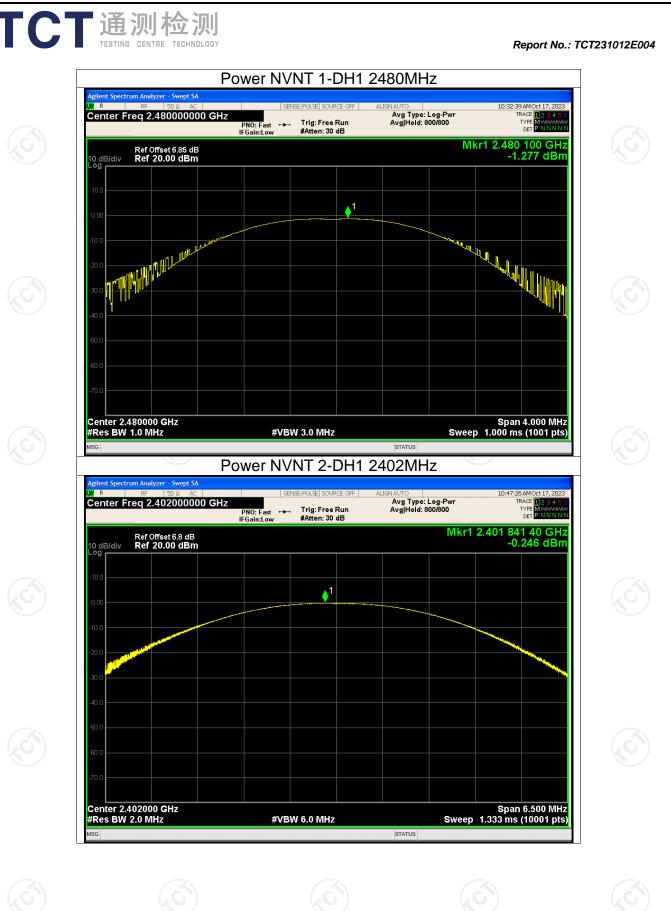
Appendix	A:	Test	Result	of	Conducted	Test
----------	-----------	------	--------	----	-----------	------

Maximum Conducted Output Power									
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict				
NVNT	1-DH1	2402	-0.51	30	Pass				
NVNT	1-DH1	2441	-3.31	30	Pass				
NVNT	1-DH1	2480	-1.28	30	Pass				
NVNT	2-DH1	2402	-0.25	21	Pass				
NVNT	2-DH1	2441	-3.17	21	Pass				
NVNT	2-DH1	2480	-1.19	21	Pass				
NVNT 🔇	3-DH1	2402 🚫	0.27	21	Pass				
NVNT	3-DH1	2441	-2.83	21	Pass				
NVNT	3-DH1	2480	-0.98	21	Pass				

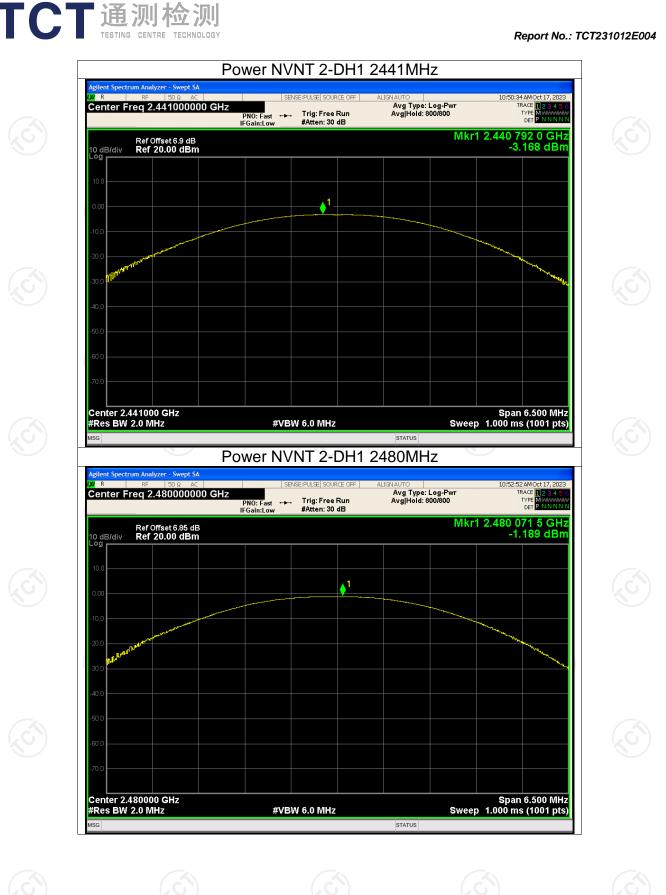


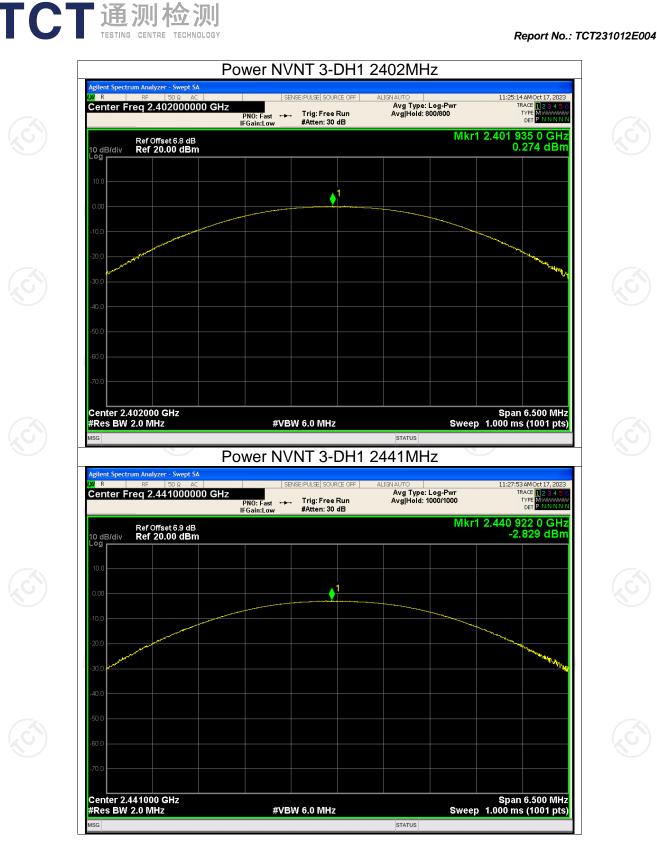


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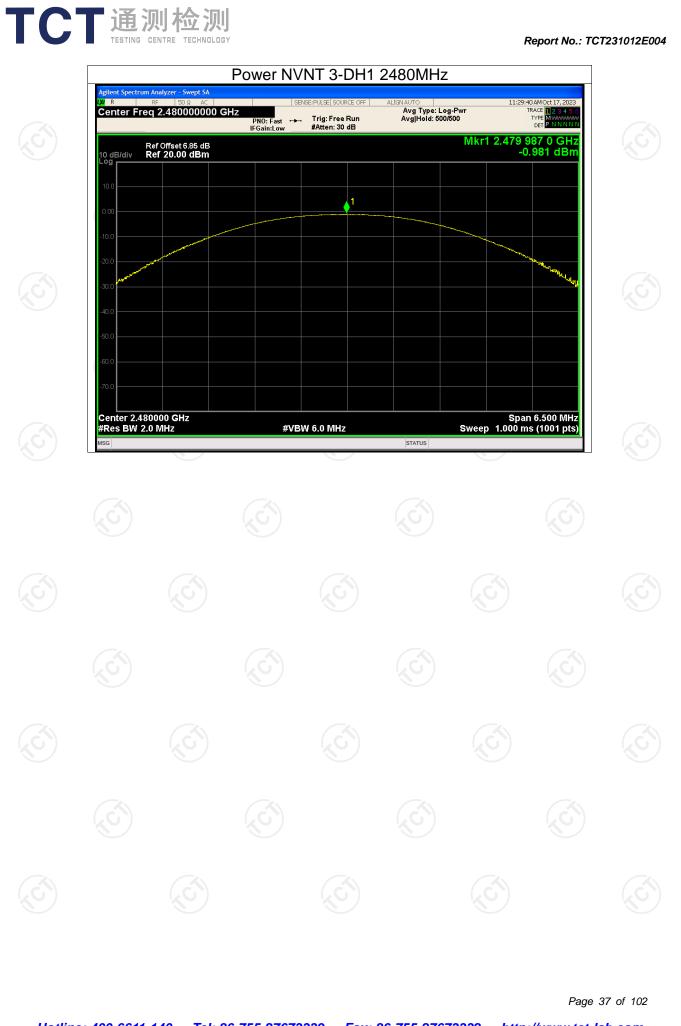


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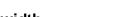
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Condition Mode		Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict			
NVNT	1-DH1	2402	0.983	Pass			
NVNT 🚫	1-DH1	2441	0.951	Pass			
NVNT	1-DH1	2480	0.987	Pass			
NVNT	2-DH1	2402	1.282	Pass			
NVNT	2-DH1	2441	1.273	Pass			
NVNT	2-DH1	2480	1.287	Pass			
NVNT	3-DH1	2402	1.277	Pass			
NVNT	3-DH1	2441	1.309	Pass			
NVNT	3-DH1	2480	1.299	Pass			
N.			KO)				



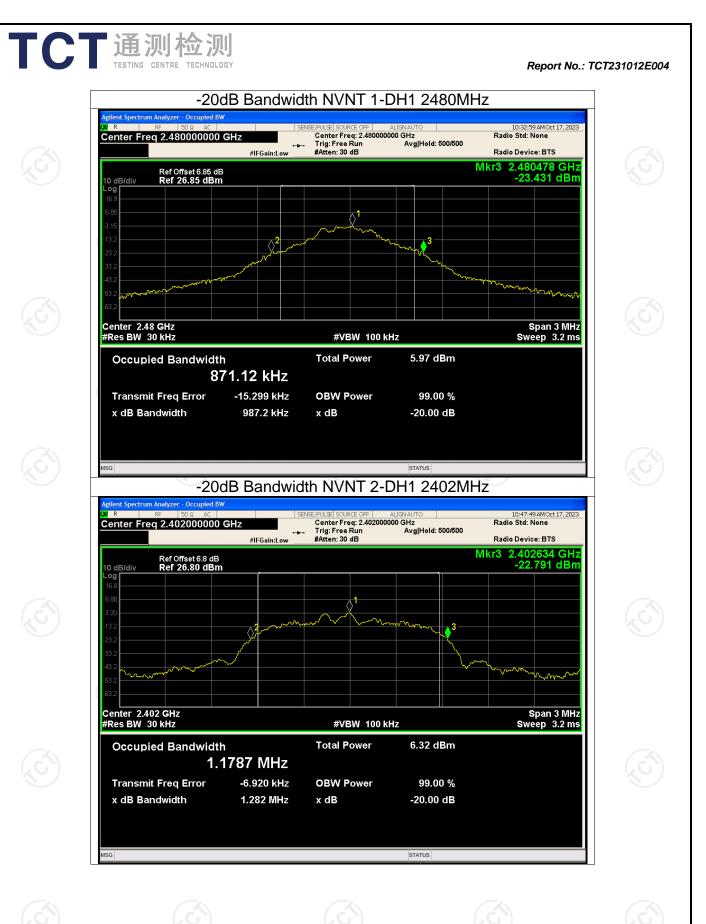




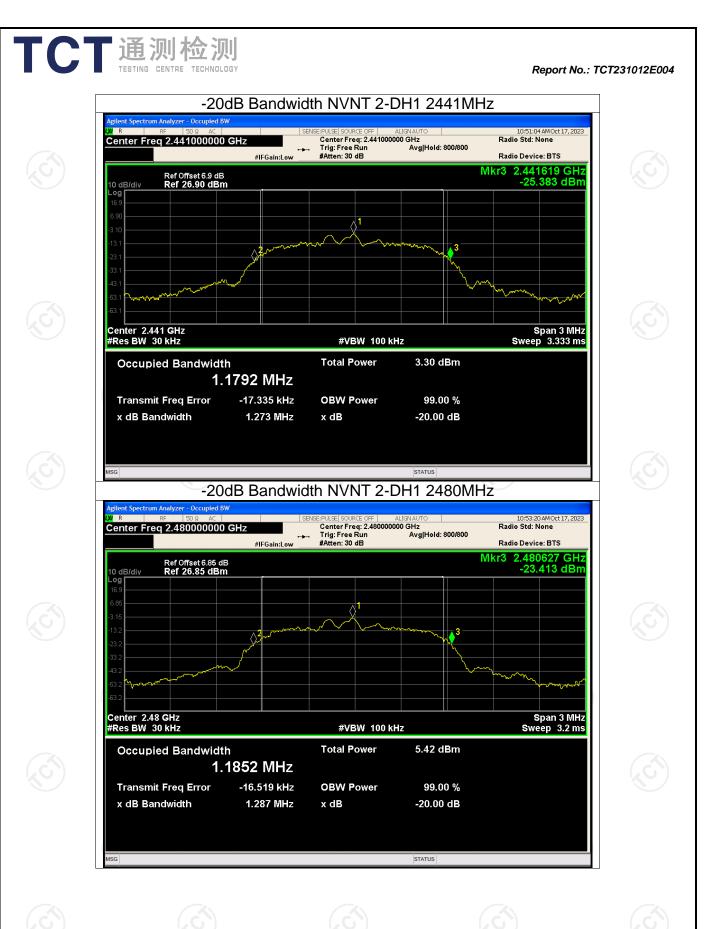
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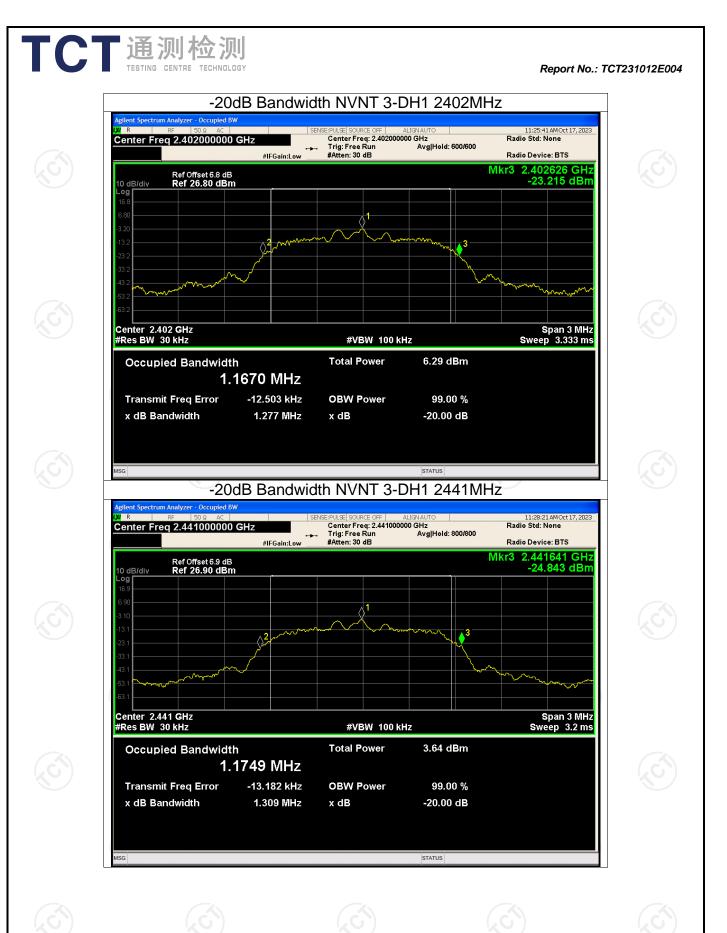




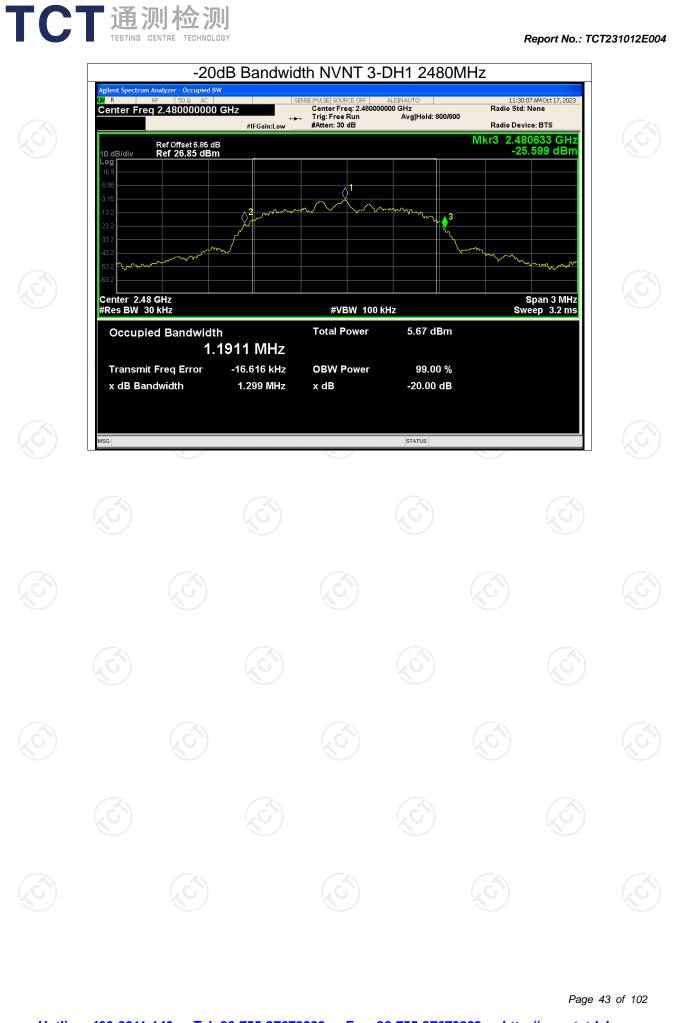
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Condition	woue	(MHz)	(MHz)	(MHz)	(MHz)	Verdict
NVNT	1-DH1	2401.834	2402.828	0.994	0.987	Pass
NVNT	1-DH1	2440.830	2441.824	0.994	0.987	Pass
NVNT	1-DH1	2478.822	2479.822	1.000	0.987	Pass
NVNT	2-DH1	2401.826	2402.832	1.006	0.858	Pass
NVNT	2-DH1	2440.826	2441.832	1.006	0.858	Pass
NVNT 🖔	2-DH1	2478.826	2479.820	0.994	0.858	Pass
NVNT	3-DH1	2401.826	2402.832	1.006	0.873	Pass
NVNT	3-DH1	2440.826	2441.826	1.000	0.873	Pass
NVNT	3-DH1	2478.818	2479.822	1.004	0.873	Pass

Carrier Frequencies Separation Hopping Freq1 Hopping Freq2

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Condition

Mode

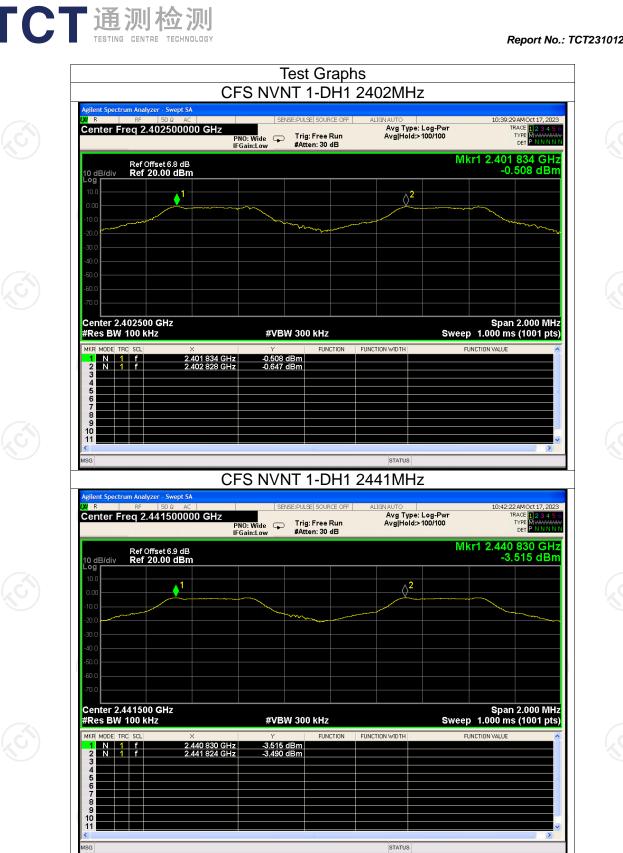
Report No.: TCT231012E004

Verdict

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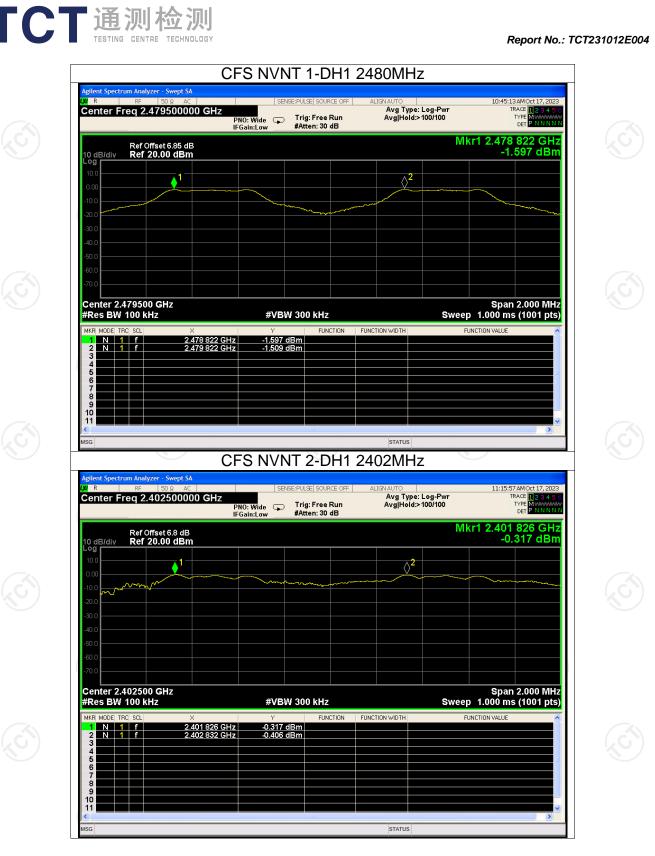
Limit

HFS

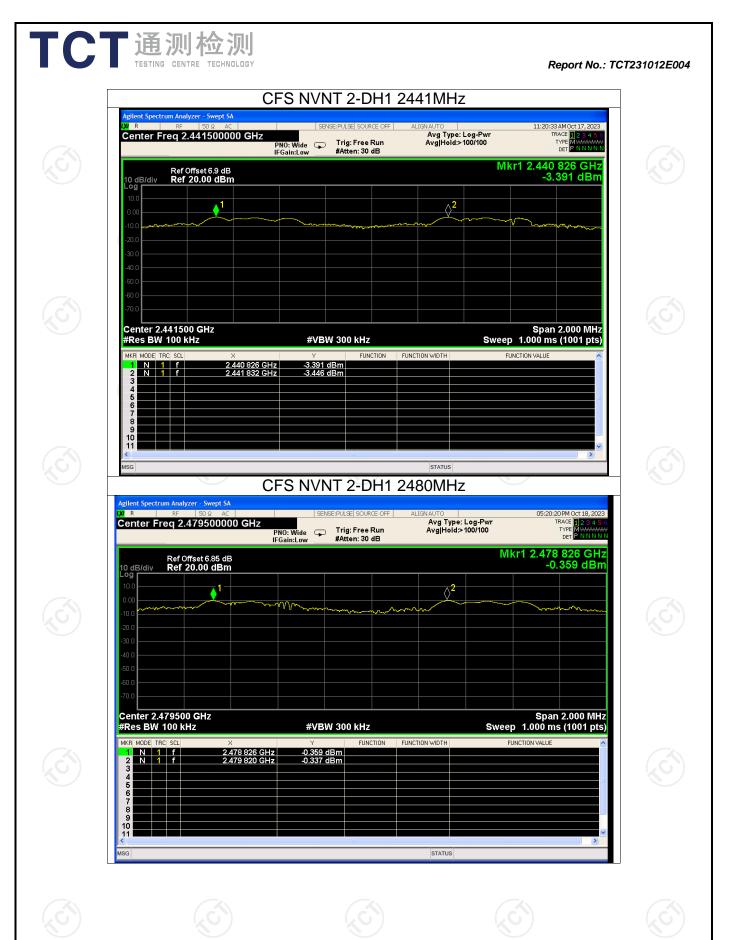


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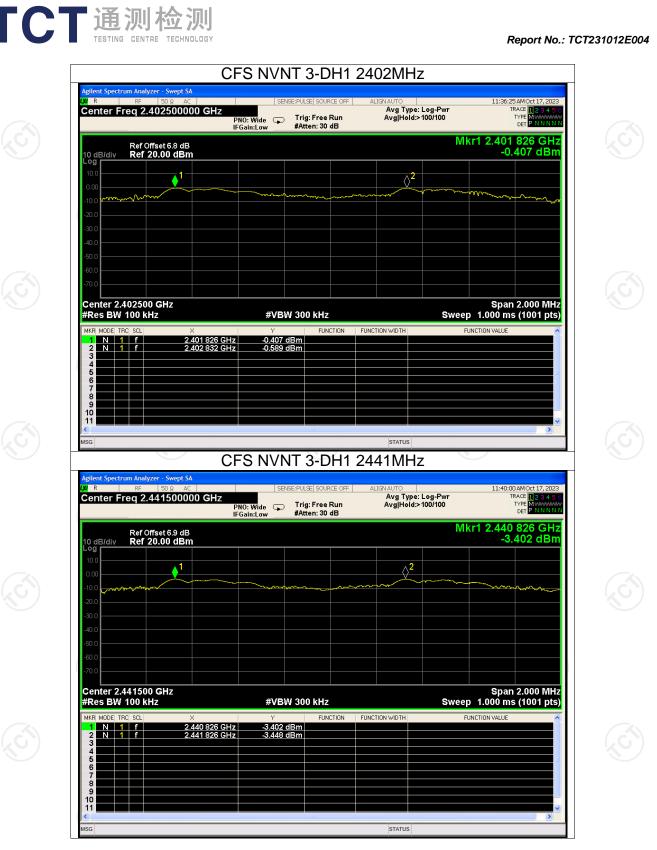
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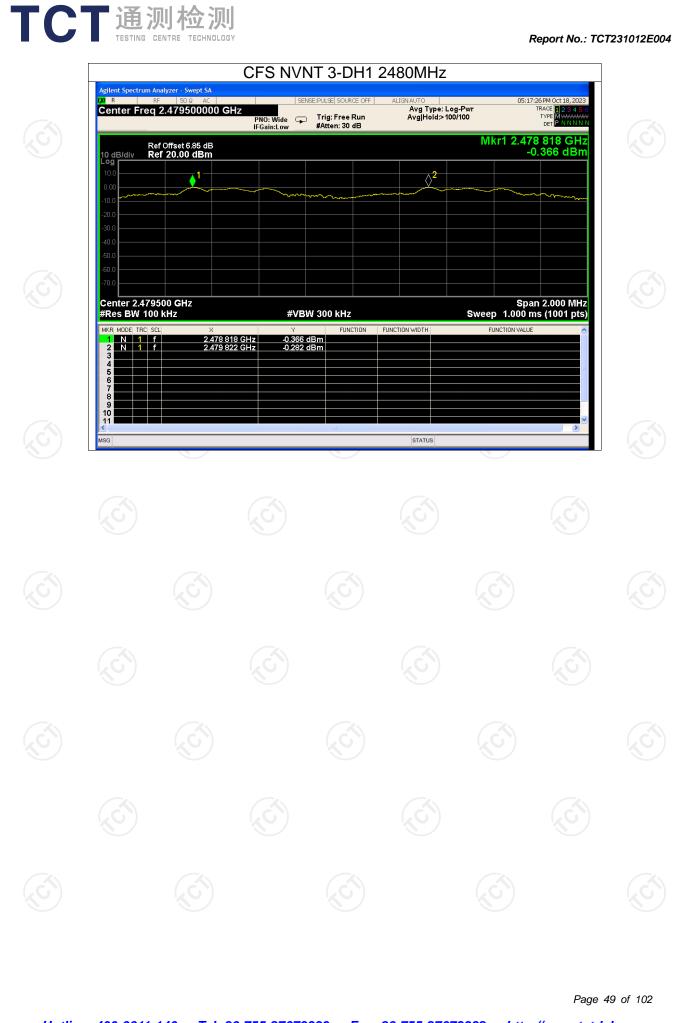
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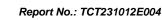
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Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-44.02	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-47.89	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-46.20	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-48.86	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-45.12	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-47.67	-20	Pass

Band Edge



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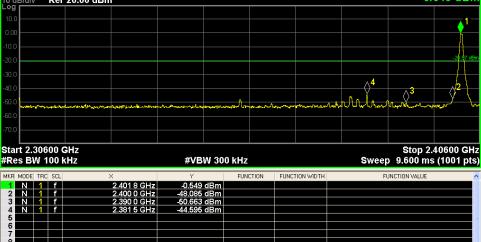
STATUS

Test Graphs Band Edge NVNT 1-DH1 2402MHz No-Hopping Ref m Analı ENSE:PULSE SOURCE OFF Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 TRACE TYPE MMMMMM DET P N N N N PNO: Wide ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 832 GHz -0.573 dBm Ref Offset 6.8 dB Ref 20.00 dBm 10 dB/div Loa M my www.www munum man 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 1-DH1 2402MHz No-Hopping Emission ent Spectrum Analyzer - Swept SA 04 AM Oct 17, 2023 TRACE 12345 TYPE MWWWWW DET PNNNNN SENSE:PULSE SOURCE OFF Center Freq 2.356000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 8 GHz -0.549 dBm Ref Offset 6.8 dB Ref 20.00 dBm 10 dB/div Log

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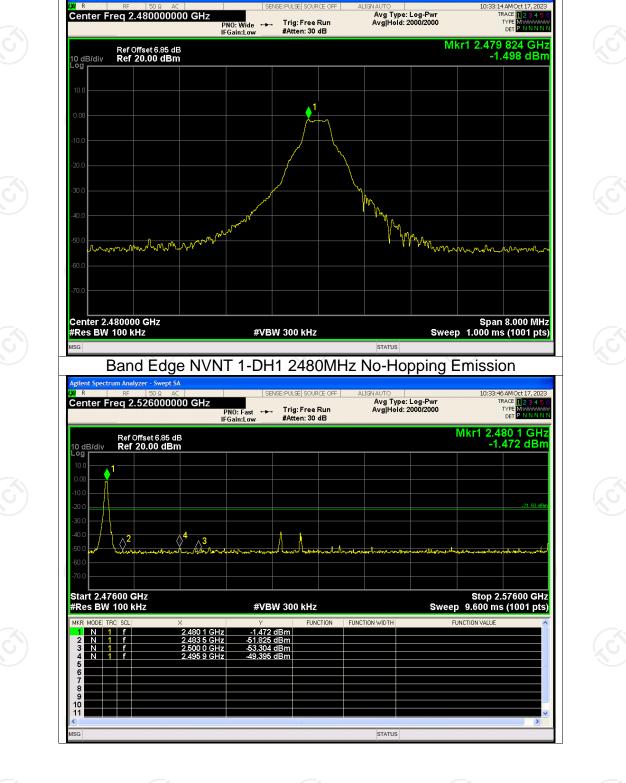


Report No.: TCT231012E004

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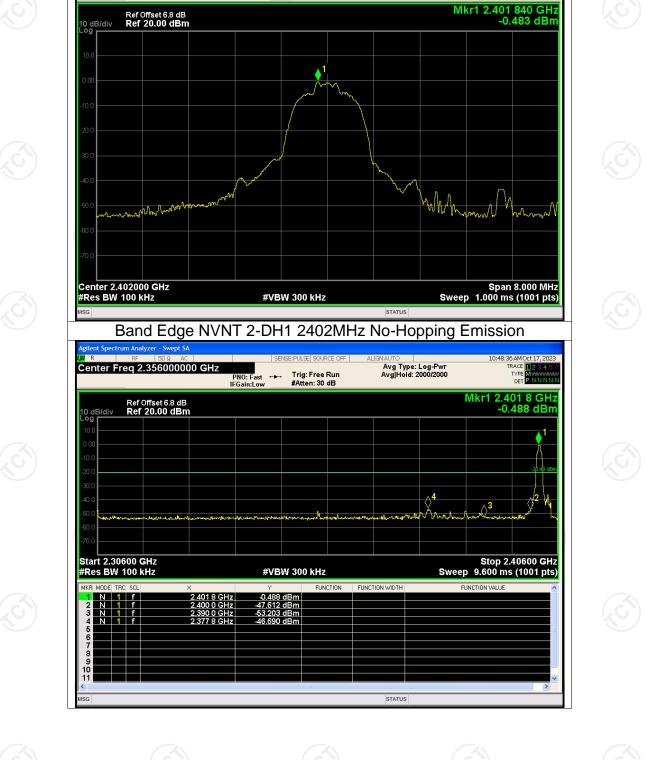


Band Edge NVNT 1-DH1 2480MHz No-Hopping Ref

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

Avg Type: Log-Pwr Avg|Hold: 2000/2000

SENSE: PULSE SOURCE OFF

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

Center Freg 2.402000000 GHz

R

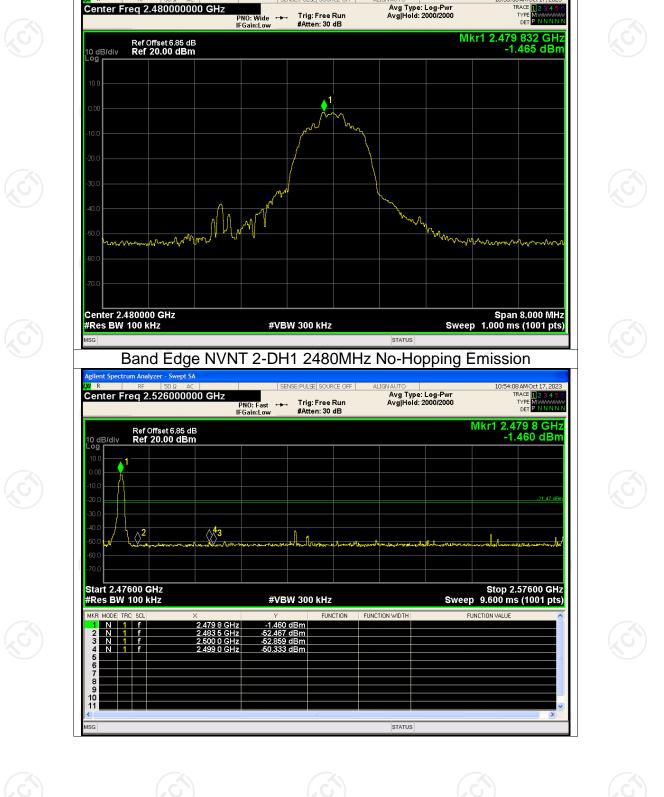
Report No.: TCT231012E004

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Det 17, 20

TYPE MWAAAAAAA DET P N N N N N

TRACE



Band Edge NVNT 2-DH1 2480MHz No-Hopping Ref

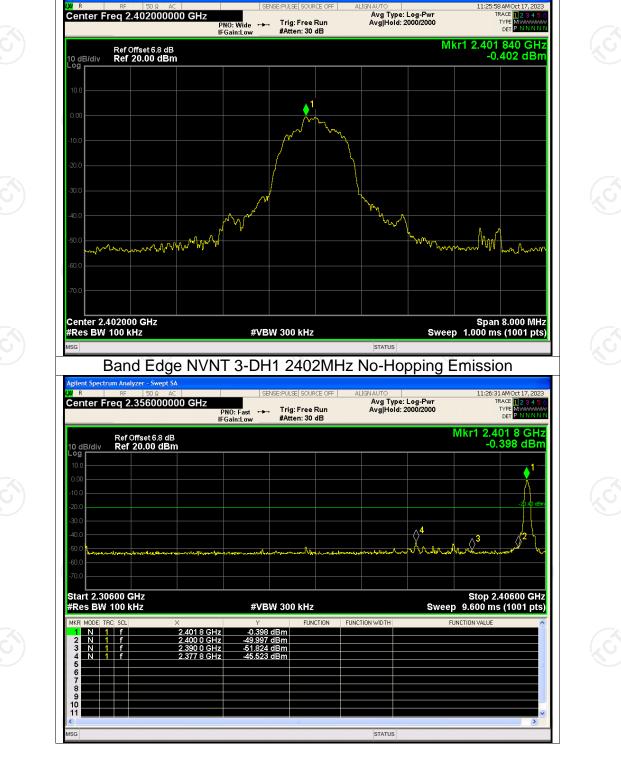
SENSE: PULSE SOURCE OFF

R

Report No.: TCT231012E004

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TRACE

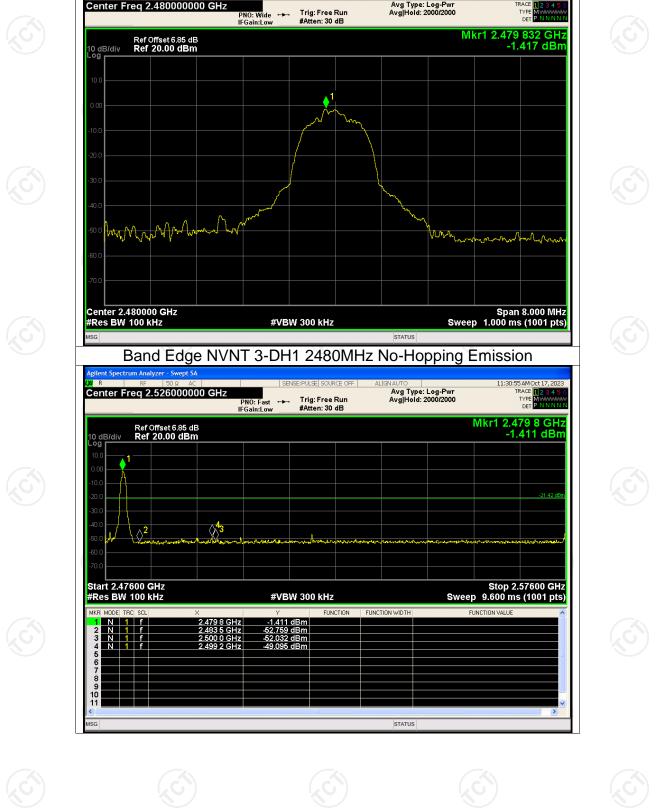


Band Edge NVNT 3-DH1 2402MHz No-Hopping Ref

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

SENSE: PULSE SOURCE OFF

Center Freg 2.480000000 GHz

R

Avg Type: Log-Pwr Avg|Hold: 2000/2000

Report No.: TCT231012E004

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)ct 17, 20

TYPE MWAAAAAAA DET P N N N N N

TRACE



Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-44.66	-20	Pass
NVNT	1-DH1	2480	Hopping	-42.33	-20	Pass
NVNT	2-DH1	2402	Hopping	-44.38	-20	Pass
NVNT	2-DH1	2480	Hopping	-43.39	-20	Pass
NVNT	3-DH1	2402	Hopping	-45.12	-20	Pass
NVNT	3-DH1	2480	Hopping	-42.75	-20	Pass







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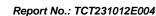
Report No.: TCT231012E004



STATUS

U F SENSE: PULSE | SOURCE OFF | Oct 17 57 AMO TRACE Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 6000/6000 TYPE MMAAAAAA DET P N N N N PNO: Wide ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.405 840 GHz -1.115 dBm Ref Offset 6.8 dB Ref 20.00 dBm 10 dB/div Loa MARAM Center 2.402000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Emission ilent Spectrum Analyzer - Swept SA 32 AM Oct 17, 2023 TRACE 1 2 3 4 5 (TYPE MWWWWW DET P N N N N B SENSE:PULSE SOURCE Center Freq 2.356000000 GHz Avg Type: Log-Pwr Avg|Hold: 6000/6000 PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 8 GHz -0.647 dBm Ref Offset 6.8 dB Ref 20.00 dBm 10 dB/div Log 4 \Diamond Լաիյուրութ Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) Start 2.30600 GHz #Res BW 100 kHz #VBW 300 kHz FUNCTION WIDTH FUNCTION FUNCTION VALUE -50.275 dBm -48.770 dBm -45.778 dBm iHz iHz N 5 8 9 10 11

Test Graphs



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

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TESTING CENTRE TECHNOLOGY



Report No.: TCT231012E004



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

SENSE: PULSE SOURCE OFF

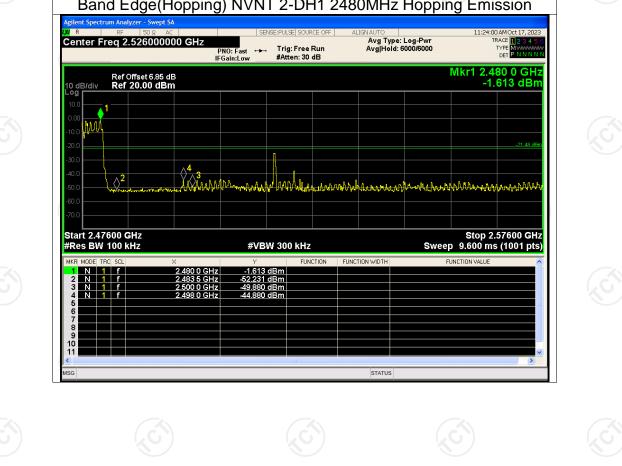
Center Freg 2.402000000 GHz

R

Report No.: TCT231012E004

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11:08:21 AM Oct 17, 20 TRACE 12 3 4



Report No.: TCT231012E004



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

UR

Report No.: TCT231012E004

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Mkr1 2.479 832 GHz -1.516 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log Mm M mm mound WWW Center 2.480000 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 2480MHz Hopping Emission SENSE:PULSE SOURCE OFF ALIGNAUTO Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 6000/6000 11:42:18 AM Oct 17, 2023 TRACE 12345 TYPE MWWWW DET P N N N N Center Freq 2.526000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 8 GHz -1.409 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log 02 And and have marked and more the share of the second of the second s MAAMA

Band Edge(Hopping) NVNT 3-DH1 2480MHz Hopping Ref

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

Center Freg 2.480000000 GHz

UR

 YOU
 Start 2.47600 GHz
 Stop 2.57600 GHz

 #Res BW 100 kHz
 #VBW 300 kHz
 Stop 2.57600 GHz

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 1
 f
 2.479 8 GHz
 -1.409 dBm

 2
 N
 1
 f
 2.479 8 GHz
 -52.264 dBm

 3
 N
 1
 f
 2.483 5 GHz
 -52.264 dBm

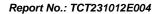
 3
 N
 1
 f
 2.499 8 GHz
 -44.275 dBm

 5
 6
 6
 6
 6
 6

 6
 6
 6
 6
 6

 7
 8
 6
 6
 6

 9
 9
 6
 6
 6



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TRACE

TYPE MWWWWW DET P N N N N

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Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict	
NVNT	1-DH1	2402	-39.74	-20	Pass	
NVNT	1-DH1	2441	-35.59	-20	Pass	
NVNT	1-DH1	2480	-38.51	-20	Pass	
NVNT	2-DH1	2402	-39.04	-20	Pass	
NVNT	2-DH1	2441	-42.88	-20	Pass	
NVNT	2-DH1	2480	-38.11	-20	Pass	
NVNT 🚫	3-DH1	2402	-40.02	-20	Pass	
NVNT	3-DH1	2441	-36.25	-20	Pass	
NVNT	3-DH1	2480	-38.90	-20	Pass	

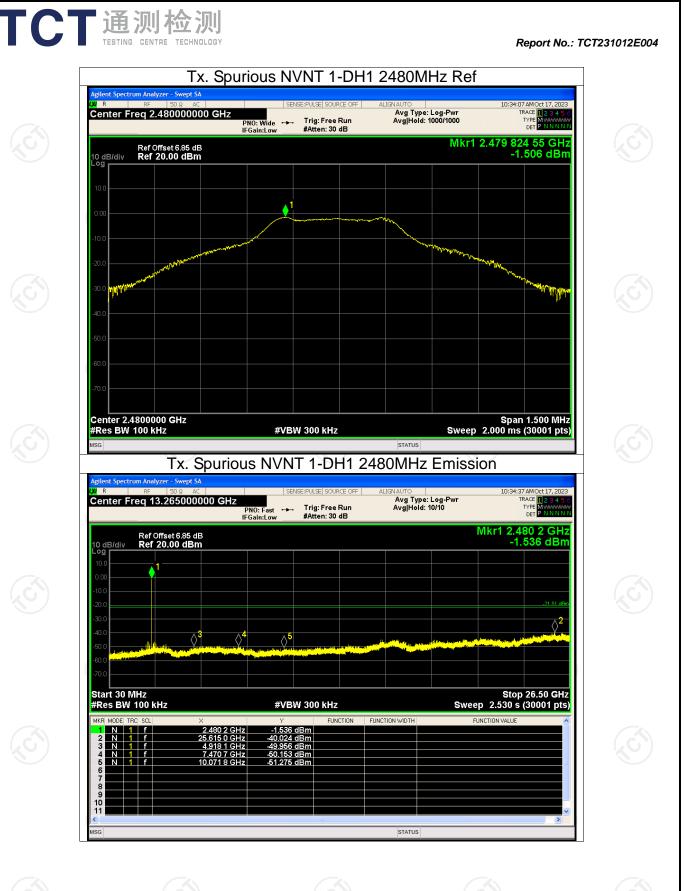
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