	TEST REPOR	T	
FCC ID	2A2SW-LILT		
Test Report No:	TCT210805E010		
Date of issue:	Aug. 17, 2021		
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB	
Testing location/ address:	TCT Testing Industrial Park Fuq Street, Bao'an District Shenzher Republic of China	iao 5th Industrial Zone, Fuhai n, Guangdong, 518103, People's	
Applicant's name::	Youso Technology (Shenzhen)	Limited Company	
Address:	Room 2525, Building 5C, Longg Shenzhen, 518129 China	juang Jiuzhan, Longhua District,	
Manufacturer's name :	GOLD FINGERS TECHNOLOG	Y CO., LTD	
Address:	7F, C15 Bldg, Fuyuan Industrial Park, No.598 of Zhoushi Rd, Bao'an District, Shenzhen 518126, China		
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013		
Test item description :	true wireless stereo		
Trade Mark:	Ocely 🔬	(\mathcal{C})	
Model/Type reference :	Lilt		
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	
Date of receipt of test item	Aug. 05, 2021		
Date (s) of performance of test:	See dates for each test case		
Tested by (+signature) :	Aaron Mo	Laron twocs	
Check by (+signature) :	Beryl Zhao	Buy and total	
Approved by (+signature):	Tomsin	Tomsmas st	
General disclaimer:	S S		
TONGCE TESTING LAB. TH	his document may be altered or ly, and shall be noted in the revis	e written approval of SHENZHEN revised by SHENZHEN TONGCE sion section of the document. The	

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1. General Product Information

1.1. EUT description

	1	
Test item description:	true wireless stereo	$\left(\mathbf{C}^{\prime}\right)$
Model/Type reference:	Lilt	
Sample Number:	TCT210805E010-0101	
Bluetooth Version:	V5.0 (This report is for BDR+EDR)	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	1.6dBi	(C)
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	
Remark:		$\langle \mathcal{C} \rangle$

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

1.2. Model(s) list

None.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
Ø	``	J		\mathcal{D}_{\dots}			
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	<u>(</u> 0)	(<u>(</u>)		<u>(0)</u>		KO)
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		-
	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:	24.9 °C	24.6 °C
Humidity:	53 % RH	47 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar

Test Software:

Software Information:	AWBTRDLAB 1.0.9.7	
Power Level:	0x00	

Test Mode:

Conducted Emission:	Charging
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages. DH1 DH3 DH5 all have been tested , only worse case DH1 is reported.

3.2. Description of Support Units

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

Equipment Model No. Serial No. FCC ID Trade Nat	
	me

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

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SHENZHEN TONGCE TESTING LAB

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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

4. Facilities and Accreditations

the temporary antenna connector is listed in the Test Instruments.

4.1. Facilities

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

FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

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

- maintained in our files.
- IC Registration No.: 10668A-1 SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

4.2. Location



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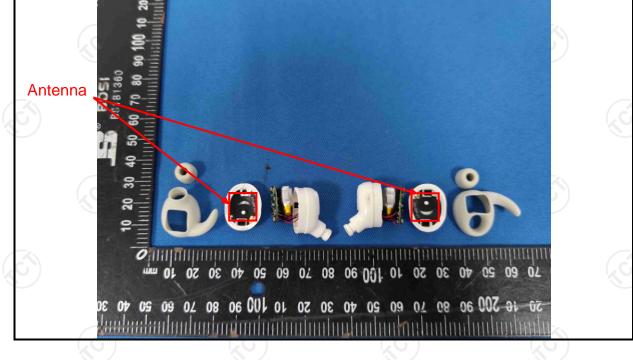
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 ceramic antenna which permanently attached, and the best case gain of the antenna is 1.6dBi.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013 150 kHz to 30 MHz					
Frequency Range:						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=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 Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	EMI Receiver	— AC power			
	Charain a mode					
Test Mode:	Charging mode					
	 The E.U.T is connelimpedance stabilizing provides a 500hm/s measuring equipment The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables 	ation network 50uH coupling im nt. ces are also conne ISN 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 main a 500hm/50ul- nination. (Please test setup and ed for maximum nd the maximum ipment and all of according to			
Test Mode: Test Procedure: Test Result:	 The E.U.T is connelimpedance stabilizing provides a 500hm/5 measuring equipment The peripheral device power through a Ll coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative 	ation network 50uH coupling im nt. ces are also conne ISN 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 main a 50ohm/50uh nination. (Please test setup and ed for maximun nd the maximun ipment and all o according to			



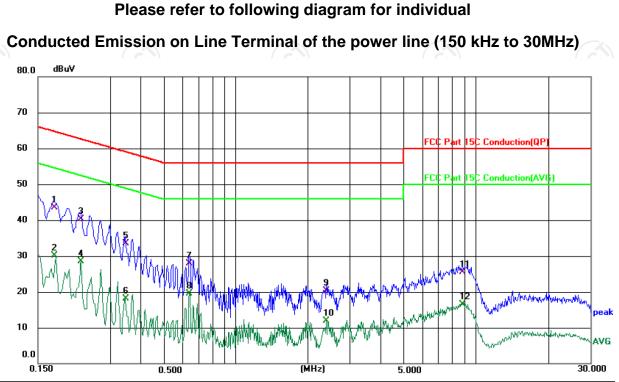
5.2.2. Test Instruments

Cond	lucted Emission	Shielding R	oom Test Site (8	43)
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Mar. 11, 2022
Line-5	ТСТ	CE-05	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A



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5.2.3. Test data



Site 844 Shielding Room Phase: L1 Temperature: 24.9 (°C) Humidity: 53 %

Limit: FCC Part 15C Conduction(QP) Po	ower: DC	5 V(Ad
---------------------------------------	----------	--------

Limi	Limit: FCC Part 15C Conduction(QP)					Power:	DC 5 V(#	Adapter In	put AC 120 V/60 Hz)
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1740	34.01	9.55	43.56	64.77	-21.21	QP	
2		0.1740	20.58	9.55	30.13	54.77	-24.64	AVG	
3		0.2260	31.02	9.32	40.34	62.60	-22.26	QP	
4		0.2260	19.13	9.32	28.45	52.60	-24.15	AVG	
5		0.3460	24.10	9.31	33.41	59.06	-25.65	QP	
6		0.3460	8.82	9.31	18.13	49.06	-30.93	AVG	
7		0.6419	18.68	9.21	27.89	56.00	-28.11	QP	
8		0.6419	10.37	9.21	19.58	46.00	-26.42	AVG	
9		2.3940	10.88	9.39	20.27	56.00	-35.73	QP	
10		2.3940	2.43	9.39	11.82	46.00	-34.18	AVG	
11		8.7860	15.82	9.59	25.41	60.00	-34.59	QP	
12		8.7860	6.84	9.59	16.43	50.00	-33.57	AVG	

Note:

Freq. = Emission frequency in MHz

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

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

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

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

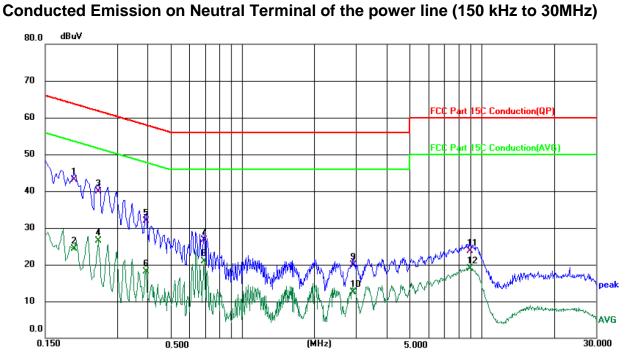
 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

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

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Site 844 Shielding Room

Limit: FCC Part 15C Conduction(QP)

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Phase: N Temperature: 24.9 (℃) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1980	33.67	9.51	43.18	63.69	-20.51	QP	
2		0.1980	14.84	9.51	24.35	53.69	-29.34	AVG	
3		0.2500	30.67	9.33	40.00	61.76	-21.76	QP	
4		0.2500	17.20	9.33	26.53	51.76	-25.23	AVG	
5		0.3940	22.55	9.26	31.81	57.98	-26.17	QP	
6		0.3940	8.80	9.26	18.06	47.98	-29.92	AVG	
7		0.6900	17.51	9.21	26.72	56.00	-29.28	QP	
8		0.6900	11.74	9.21	20.95	46.00	-25.05	AVG	
9		2.9100	10.56	9.42	19.98	56.00	-36.02	QP	
10		2.9100	3.16	9.42	12.58	46.00	-33.42	AVG	
11		8.9260	14.07	9.59	23.66	60.00	-36.34	QP	
12		8.9260	9.32	9.59	18.91	50.00	-31.09	AVG	

Note1:

Freq. = Emission frequency in MHz Reading level $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V) = Reading \, level (dB\mu V) + Corr. Factor (dB)$ Limit $(dB\mu V) = Limit$ stated in standard Margin (dB) = Measurement (dB 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.

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Humidity: 53 %



5.3. Conducted Output Power

5.3.1. Test Specification

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

5.3.2. Test Instruments

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





5.4. 20dB Occupy Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	N/A					
Test Setup:	Spectrum Analyzer	EUT				
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The RF output of EUT was connected to the spectru 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 200 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≥3RBN Sweep = auto; Detector function = peak; Trace = m hold. Measure and record the results in the test report. 					
Test Result:	PASS					

5.4.2. Test Instruments

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



5.5. Carrier Frequencies Separation

5.5.1. Test Specification

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

5.5.2. Test Instruments

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

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5.6. Hopping Channel Number

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	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	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

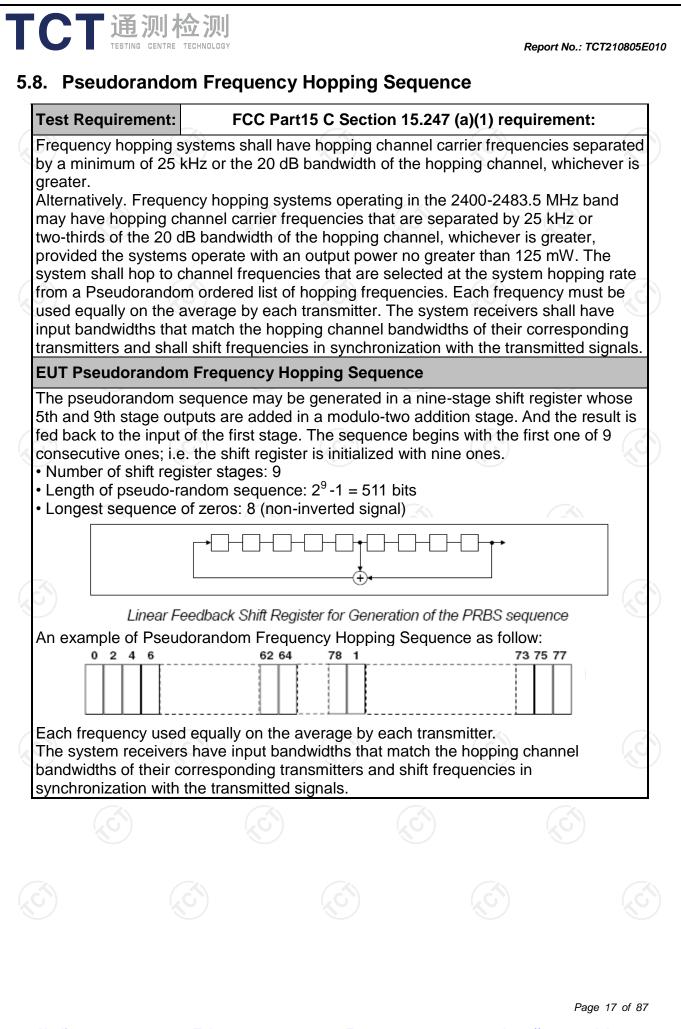
5.7. Dwell Time

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:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test Result:	PASS

5.7.2. Test Instruments

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





5.9. Conducted Band Edge Measurement

5.9.1. Test Specification

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 fal 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	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022



5.10. Conducted Spurious Emission Measurement

5.10.1. Test Specification

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

5.10.2. Test Instruments

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



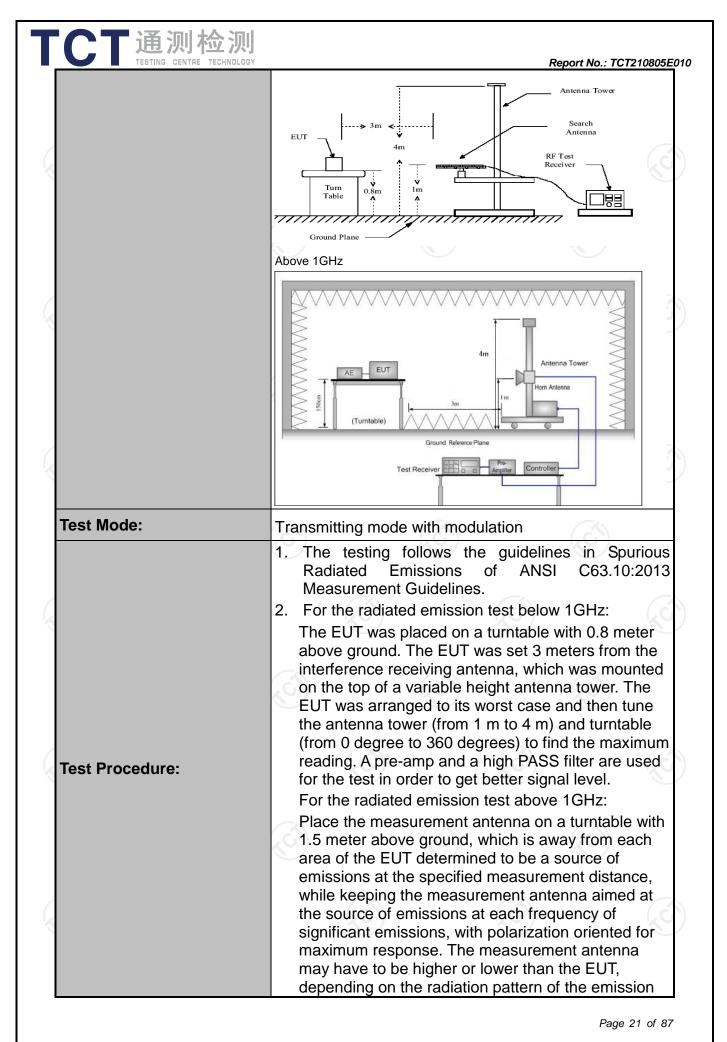




5.11.1. Test Specification

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	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:2013									
Frequency Range:	9 kHz to 25 GHz									
Measurement Distance:	3 m									
Antenna Polarization:	Horizontal & Vertical									
	Frequency	Detector	RBW	VBW		Remark				
	9kHz- 150kHz	Quasi-pea		1kHz		i-peak Value				
Receiver Setup:	150kHz- Quasi-p 30MHz		k 9kHz	30kHz	Quas	i-peak Value				
	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz		i-peak Value				
	Above 1GHz	Peak	1MHz	3MHz		eak Value				
		Peak	1MHz	10Hz	Ave	rage Value				
	Frequen		Field Stre	ength		asurement				
			(microvolts		Dista	nce (meters)				
	0.009-0.4	- /	2400/F(I			300				
	0.490-1.7		24000/F(30	KHZ)		30 30				
	30-88		100)		3				
	88-216	1	150		(É	3				
Limit:	216-96	200		3						
	Above 9	500		3						
	Frequency Above 1GH:	(micro	d Strength ovolts/meter) 500	Measurer Distand (meter 3	ce	Detector Average				
	Above IGH.	<u> </u>	5000	3		Peak				
Test setup:	For radiated emis	stance = 3m	d Plane		Comput					



	rd n n a rd 3. 5	eceiving the maxim neasurement anter naximizes the emis intenna elevation for estricted to a range bove the ground of Set to the maximu EUT transmit contin Jse the following s (1) Span shall wide emission being (2) Set RBW=120 for f>1GHz ; VE Sweep = auto = max hold for (3) For average m correction fact 15.35(c). Duty of	pectrum analyzer s e enough to fully ca measured; kHz for f < 1 GHz, BW≥RBW; ; Detector function r peak neasurement: use d	al be that which rement ions shall be 1 m to 4 m plane. nd enable the settings: apture the RBW=1MHz = peak; Trace duty cycle 0 millisecond:
	Ś	Where N1 is n length of type Average Emis Level + 20*log Corrected Read	number of type 1 pu 1 pulses, etc. sion Level = Peak l g(Duty cycle) ding: Antenna Facto	Emission or + Cable
est results:	PAS	Where N1 is n length of type Average Emis Level + 20*log Corrected Read Loss + Read Le	number of type 1 pu 1 pulses, etc. sion Level = Peak l g(Duty cycle)	Emission or + Cable
est results:	PAS	Where N1 is n length of type Average Emis Level + 20*log Corrected Read Loss + Read Le	number of type 1 pu 1 pulses, etc. sion Level = Peak l g(Duty cycle) ding: Antenna Facto	Emission or + Cable
est results:	PAS	Where N1 is n length of type Average Emis Level + 20*log Corrected Read Loss + Read Le	number of type 1 pu 1 pulses, etc. sion Level = Peak l g(Duty cycle) ding: Antenna Facto	Emission or + Cable
est results:	PAS	Where N1 is n length of type Average Emis Level + 20*log Corrected Read Loss + Read Le	number of type 1 pu 1 pulses, etc. sion Level = Peak l g(Duty cycle) ding: Antenna Facto	Emission or + Cable



5.11.2. Test Instruments

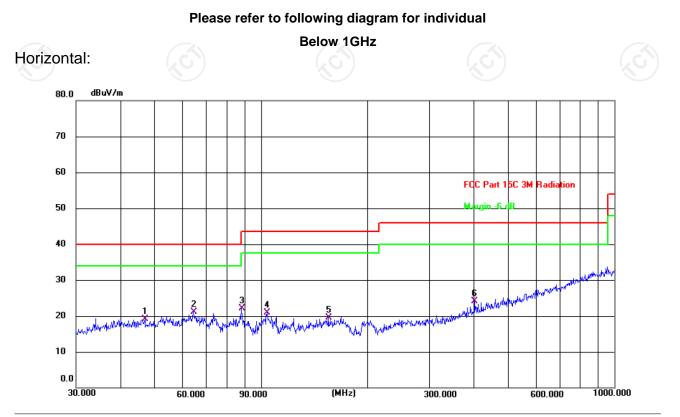
Radiated Emission Test Site (966)									
Name of Equipment	Manutacturer Model		Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022					
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022					
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Mar. 11, 2022					
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022					
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022					
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022					
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022					
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022					
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023					
Antenna Mast	Keleto	RE-AM	N/A	N/A					
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022					
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022					
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022					
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A					



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5.11.3. Test Data

TCT通测检测 TCT通测检测



ite				Polarization: Horizontal			Temperature: 24.6(C)	
Limit: FCC Part 15C 3M Radiation						.7 V		Humidity: 47 %
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)			Detector	P/F	Remark
46.9948	5.17	13.84	19.01	40.00	-20.99	QP	Р	
64.4331	8.83	12.23	21.06	40.00	-18.94	QP	Ρ	
88.0329	12.94	9.26	22.20	43.50	-21.30	QP	Р	
104.1701	10.18	10.71	20.89	43.50	-22.61	QP	Р	
155.3644	6.19	13.38	19.57	43.50	-23.93	QP	Ρ	
403.2500	6.78	17.33	24.11	46.00	-21.89	QP	Ρ	
	Frequency (MHz) 46.9948 64.4331 88.0329 104.1701 155.3644	Frequency (MHz)Reading (dBuV)46.99485.1764.43318.8388.032912.94104.170110.18155.36446.19	Frequency (MHz)Reading (dBuV)Factor (dB/m)46.99485.1713.8464.43318.8312.2388.032912.949.26104.170110.1810.71155.36446.1913.38	Frequency (MHz)Reading (dBuV)Factor (dB/m)Level (dBuV/m)46.99485.1713.8419.0164.43318.8312.2321.0688.032912.949.2622.20104.170110.1810.7120.89155.36446.1913.3819.57	FCC Part 15C 3M Radiation Power: Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) 46.9948 5.17 13.84 19.01 40.00 64.4331 8.83 12.23 21.06 40.00 88.0329 12.94 9.26 22.20 43.50 104.1701 10.18 10.71 20.89 43.50 155.3644 6.19 13.38 19.57 43.50	FCC Part 15C 3M Radiation Power: DC 3 Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) 46.9948 5.17 13.84 19.01 40.00 -20.99 64.4331 8.83 12.23 21.06 40.00 -18.94 88.0329 12.94 9.26 22.20 43.50 -21.30 104.1701 10.18 10.71 20.89 43.50 -22.61 155.3644 6.19 13.38 19.57 43.50 -23.93	FCC Part 15C 3M Radiation Power: DC 3.7 V Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector 46.9948 5.17 13.84 19.01 40.00 -20.99 QP 64.4331 8.83 12.23 21.06 40.00 -18.94 QP 88.0329 12.94 9.26 22.20 43.50 -21.30 QP 104.1701 10.18 10.71 20.89 43.50 -22.61 QP 155.3644 6.19 13.38 19.57 43.50 -23.93 QP	FCC Part 15C 3M Radiation Power: DC 3.7 V Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector P/F 46.9948 5.17 13.84 19.01 40.00 -20.99 QP P 64.4331 8.83 12.23 21.06 40.00 -18.94 QP P 88.0329 12.94 9.26 22.20 43.50 -21.30 QP P 104.1701 10.18 10.71 20.89 43.50 -22.61 QP P 155.3644 6.19 13.38 19.57 43.50 -23.93 QP P

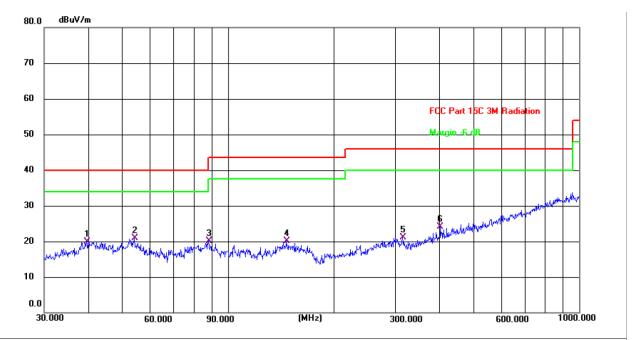
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Report No.: TCT210805E010



Vertical:

TCT通测检测 TCT通测检测



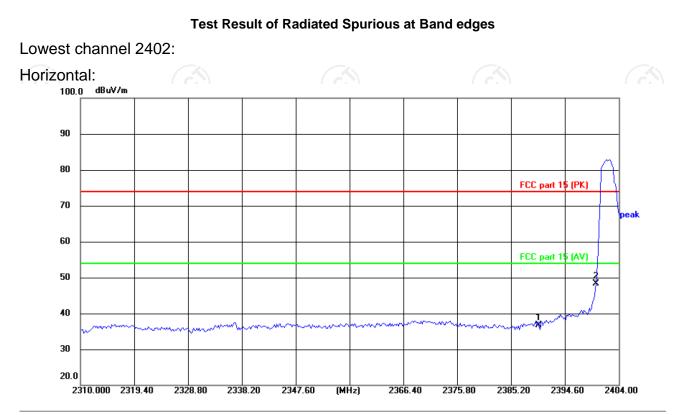
Site			Polariza	Polarization: Vertical			Temperature: 24.6(C)		
Limit: FCC Part 15C 3M Radiation					Power:	DC 3.	7∨		Humidity: 47 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	39.5757	6.03	13.94	19.97	40.00	-20.03	QP	Ρ	
2 *	54.2610	7.41	13.50	20.91	40.00	-19.09	QP	Р	
3	88.0329	10.94	9.26	20.20	43.50	-23.30	QP	Р	
4	146.8877	6.80	13.30	20.10	43.50	-23.40	QP	Ρ	
5	314.3765	6.88	14.24	21.12	46.00	-24.88	QP	Ρ	
6	403.2500	<mark>6.78</mark>	17.33	24.11	46.00	-21.89	QP	Ρ	

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

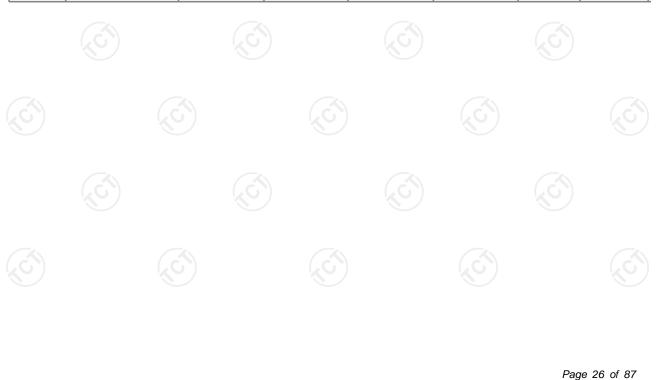
2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4DQPSK, 8DPSK) and the worst case Mode (Lowest channel and 8DPSK) was submitted only.

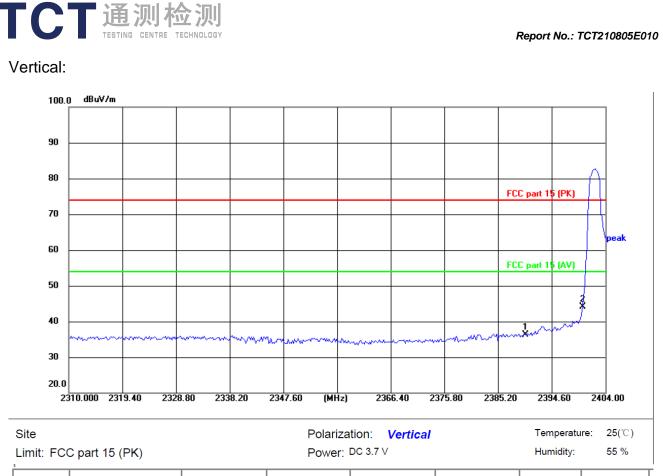
- 3. Freq. = Emission frequency in MHz
- Measurement $(dB\mu V/m) = Reading \, level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss - Pre-amplifier
- Limit $(dB\mu V/m) = Limit$ stated in standard
- Over $(dB) = Measurement (dB\mu V/m) Limits (dB\mu V/m)$
- * is meaning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

Report No.: TCT210805E010



Site Limit: FC0	part 15 (PK) Polarization: Horizontal Power: DC 3.7 V						re: 25(℃) 55 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	49.92	-13.15	36.77	74.00	-37.23	peak
2 *	2400.000	61.42	-13.12	48.30	74.00	-25.70	peak





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	49.54	-13.15	36.39	74.00	-37.61	peak
2 *	2400.000	57.31	-13.12	44.19	74.00	-29.81	peak
		1.1					

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Report No.: TCT210805E010 Highest channel 2480: Horizontal: 100.0 dBuV/m 90 80 FCC part 15 (PK) 70 60 FCC part 15 (AV) 50 40 W Ŵ٧ N 30

Site Limit: FCC part 15 (PK)			Polarization: <i>Horizontal</i> Power: DC 3.7 V			Temperature: 25(°C Humidity: 55 %	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	53.69	-12.84	40.85	74.00	-33.15	peak

(MHz)

2494.20

2496.90

2499.60

2502.30

2505.00

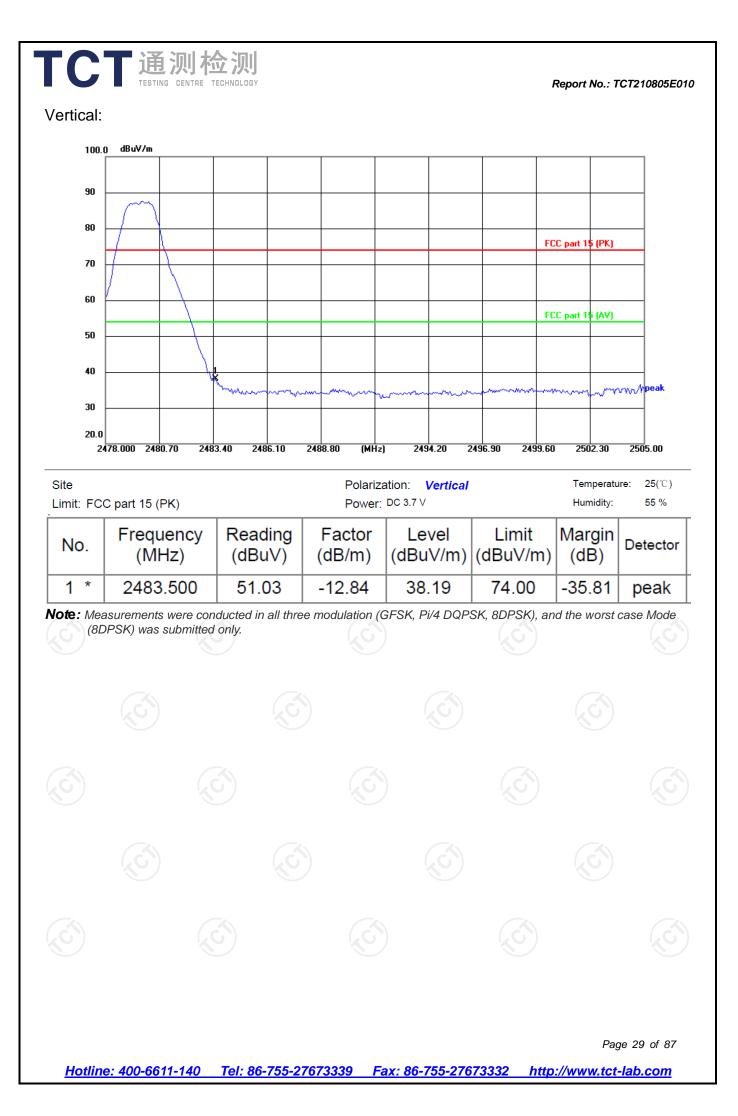
20.0

2478.000 2480.70

2483.40

2486.10

2488.80



CT通测检测 TESTING CENTRE TECHNOLOGY

Above 1GHz

Modulat	ion Type: 8D	PSK							
Low cha	nnel: 2402 N	ЛНz							
Frequen (MHz)	cy 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	43.05		0.66	43.71		74	54	-10.29
7206	Н	34.83		9.50	44.33		74	54	-9.67
	H					~~~			
	(\mathcal{O})		J.J		()	G)		(G)	
4804	V	44.59		0.66	45.25		74	54	-8.75
7206	V	35.16		9.50	44.66		74	54	-9.34
	V								

Middle cha	nnel: 2441	MHz		X)		10)		X
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)		Margin (dB)
4882	Н	44.48		0.99	45.47	<u> </u>	74	54	-8.53
7323	KOH)	34.20	-1,0	9.87	44.07	0	74	54	-9.93
	Ĥ					<u> </u>			
			-						
4882	V	41.74		0.99	42.73		74	54	-11.27
7323	V	34.38		9.87	44.25		74	54	-9.75
	V			×	/				

High channel: 2480 MHz

i ligit chailt									
Frequency	Ant Pol	Peak	AV	Correction	Emissio	on Level	Peak limit	A\/ limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV		(dBµV/m)	(dB)
(11112)	11, 0	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(abp t/m)	(abp v/m)	(42)
4960	Н	43.97		1.33	45.30		74	54	-8.70
7440	Н	36.42		10.22	46.64		74	54	-7.36
	Н								
GN)		(.c)		(.0			$(\dot{\mathbf{G}})$).)
4960	V	46.58		1.33	47.91		74	54	-6.09
7440	V	36.16		10.22	46.38		74	54	-7.62
	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.



Appendix A: Test Result of Conducted Test

		Maxim	um Conducted (Output Pov	ver		
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	4.13	0	4.13	30	Pass
NVNT	1-DH1	2441	3.537	0	3.537	30	Pass
NVNT	1-DH1	2480	3.606	0	3.606	30	Pass
NVNT	2-DH1	2402	3.996	0	3.996	21	Pass
NVNT	2-DH1	2441	3.28	0	3.28	21	Pass
NVNT	2-DH1	2480	3.332	0	3.332	21	Pass
NVNT	3-DH1	2402	4.542	0	4.542	21	Pass
NVNT	3-DH1	2441	3.867	0	3.867	21	Pass
NVNT	3-DH1	2480	3.871	0	3.871	21	Pass

Power NVNT 1-DH1 2402MHz





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	GHZ PN0: Fast IFGain:Low #Atten: 30 dB	ALIGNAUTO 01: Avg Type: Log-Pwr Avg Hold: 200/200	33:42 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWAWW DET P N N N N
Ref Offset 15.06 dB 10 dB/div Ref 20.00 dBm		Mkr1 2.4	40 724 GHz 3.537 dBm
10.0	1		
0.00			
-10.0			
-20.0			
-40.0			(
-50.0			
-60.0			
-70.0			
Center 2.441000 GHz #Res BW 2.0 MHz	#VBW 6.0 MHz	Sp #Sweep 100.0	an 6.000 MHz ms (1001 pts)
MSG	Power NVNT 1-DH1	status 2480MHz	
Agilent Spectrum Analyzer - Swept SA IXI R RF 50 Ω AC	SENSE:PULSE	ALIGNAUTO 01:	6:23 PM Aug 13, 2021
Center Freq 2.48000000	CHZ PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 200/200	TRACE 1 2 3 4 5 6 TYPE M MARAAAAA DET P N N N N N
Ref Offset 15.03 dB 10 dB/div Ref 20.00 dBm		MKr1 2.479	830 8 GHz 3.606 dBm
10.0	1		
0.00			
-10.0			
-20.0			
-30.0			
-30.0			
-30.0			
-40.0			
-30.0 -40.0 -50.0 -60.0	#VBW 6.0 MHz	Sp #Sweep 100.0 r	an 6.000 MHz ns (10001 pts)
-30.0 -40.0 -50.0 -60.0 -70.0 Center 2.480000 GHz	#VBW 6.0 MHz	Sp #Sweep 100.0 r	an 6.000 MHz ns (10001 pts)
-30.0 -40.0 -50.0 -50.0 -60.0 -70.0 Center 2.480000 GHz #Res BW 2.0 MHz	#VBW 6.0 MHz	#Sweep 100.0 r	an 6.000 MHz ns (10001 pts)
-30.0 -40.0 -50.0 -60.0 -70.0 Center 2.480000 GHz #Res BW 2.0 MHz	#VBW 6.0 MHz	#Sweep 100.0 r	an 6.000 MHz ns (10001 pts)

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	O GHZ PN0: Fast IFGain:Low #Atten: 30 dB	ALIGNAUTO 03:00:41 Avg Type: Log-Pwr n Avg Hold: 200/200	DPM Aug 13, 2021 RACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N N
Ref Offset 14.98 d 10 dB/div Ref 20.00 dBm Log	8	Mkr1 2.401 3.	820 GHz 996 dBm
10.0	1		
0.00			
-10.0			and the second sec
-20.0			
-30.0			
-50.0			
-60.0			
-70.0			
Center 2.402000 GHz #Res BW 2.0 MHz	#VBW 6.0 MHz	Span Sweep 1.000 ms	6.000 MHz (1001 pts)
MSG	Power NVNT 2-DH1	STATUS	
Agilent Spectrum Analyzer - Swept SA			5PM Aug 13, 2021
Center Freq 2.44100000		Avg Type: Log-Pwr Ti Avg Hold: 200/200	RACE 123456 TYPE M
Ref Offset 15.06 d 10 dB/div Ref 20.00 dBm	В	Mkr1 2.440 3.	886 GHz 280 dBm
10.0			
0.00			
-10.0			Non-March Marcel
-20.0 perf			
-30.0			
-50.0			
-60.0			
-70.0		Span Sweep 1.000 ms	6.000 MHz s (1001 pts)
-70.0 Center 2.441000 GHz #Res BW 2.0 MHz	#VBW 6.0 MHz	STATUS	
Center 2.441000 GHz	#VBW 6.0 MHZ		
Center 2.441000 GHz #Res BW 2.0 MHz	#VBW 6.0 MHz		
Center 2.441000 GHz #Res BW 2.0 MHz	#VBW 6.0 MH2		

	2.480000000 GHz	SENSE:PULSE PNO: Fast +++ Trig: Free Run FGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 200/200	03:01:35PM Aug 13, 2021 TRACE 123456 TYPE MWWWWW DET PNNNNN	
Ref 10 dB/div Ref	Offset 15.03 dB ` 20.00 dBm		Mk	r1 2.480 138 GHz 3.332 dBm	
Log					
0.00					
-10.0	and the second				
-20.0 grander				and the second sec	
-30.0					
-40.0					
-60.0					
-70.0					
Center 2.4800	00 GHz			Span 6.000 MHz	
#Res BW 2.0 N	ЛНz	#VBW 6.0 MHz	Sweep status	1.000 ms (1001 pts)	
Agilent Spectrum Ana		wer NVNT 3-DH1	2402MHz		
LXI R RF	50 Ω AC 2.402000000 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 200/200	02:59:36 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	
Ref	Offset 14.98 dB	FGain:Low #Atten: 30 dB		r1 2.401 922 GHz	
10 dB/div Ref	20.00 dBm			4.542 dBm	
10.0					
-10.0					
-20.0				and the second sec	
-30.0					
-40.0					
-50.0					
-60.0					
-70.0					
Center 2.4020 #Res BW 2.0 N	00 GHz /IHz	#VBW 6.0 MHz	Sweep	Span 6.000 MHz 1.000 ms (1001 pts)	
MSG			STATUS	<u> </u>	

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	Spectrum Analyzer - Swept SA RF 50 Q AC er Freq 2.441000000 GH	SENSE:PULSE PNO: Fast →→ Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGNAUTO 02:59 Avg Type: Log-Pwr Avg Hold: 200/200	54PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN
	Ref Offset 15.06 dB div Ref 20.00 dBm		Mkr1 2.44	0 958 GHz 3.867 dBm
10.0				
0.00 -				
-10.0	A MARCA AND AND A MARCA AND AND A MARCA AND AND AND AND AND AND AND AND AND AN			
-20.0				
-40.0				
-50.0 —				
-60.0				
-70.0				
Cente #Res	er 2.441000 GHz BW 2.0 MHz	#VBW 6.0 MHz	Spa Sweep 1.000 r	n 6.000 MHz 1s (1001 pts)
Arilant	Spectrum Analyzer - Swept SA	Power NVNT 3-DH1	2480MHz 🔎	
LXI R		PNO: East +++ Irig: Free Run	ALIGNAUTO 03:00 Avg Type: Log-Pwr Avg Hold: 200/200	10 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MANANANA DET P. N N N N N
10 dB/	Ref Offset 15.03 dB div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mkr1 2.47	9 886 GHz 3.871 dBm
0.00			man and the strength	
-10.0	and the second se			
-10.0 -20.0				
-20.0 # -30.0 —				
-20.0				
-20.0 e -30.0 - -40.0 -				
-20.0 e -30.0 - -40.0 - -60.0 -				
-20.0 = -30.0 = -40.0 = -50.0 = -70.0 = Cente	er 2.480000 GHz BW 2.0 MHz	#VBW 6.0 MHz	Sweep 1.000 n	n 6.000 MHz 15 (1001 pts)
-20.0 = -30.0 = -40.0 = -50.0 = -70.0 = Cente	r 2.480000 GHz BW 2.0 MHz	#VBW 6.0 MHz	Status	n 6.000 MHz ns (1001 pts)
-20.0 - -30.0 - -40.0 - -50.0 - -60.0 - -70.0 - Cente #Res	rr 2.480000 GHz BW 2.0 MHz	#VBW 6.0 MHz	Sweep 1.000 n	n 6.000 MHz ns (1001 pts)
-20.0 - -30.0 - -40.0 - -50.0 - -60.0 - -70.0 - Cente #Res	r 2.480000 GHz BW 2.0 MHz	#VBW 6.0 MHz	Sweep 1.000 n	n 6.000 MHz 15 (1001 pts)

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.955	Pass
NVNT	1-DH1	2441	0.954	Pass
NVNT	1-DH1	2480	0.954	Pass
NVNT	2-DH1	2402	1.31	Pass
NVNT	2-DH1	2441	1.293	Pass
NVNT	2-DH1	2480	1.3	Pass
NVNT	3-DH1	2402	1.301	Pass
NVNT	3-DH1	2441	1.3	Pass
NVNT	3-DH1	2480	1.301	Pass

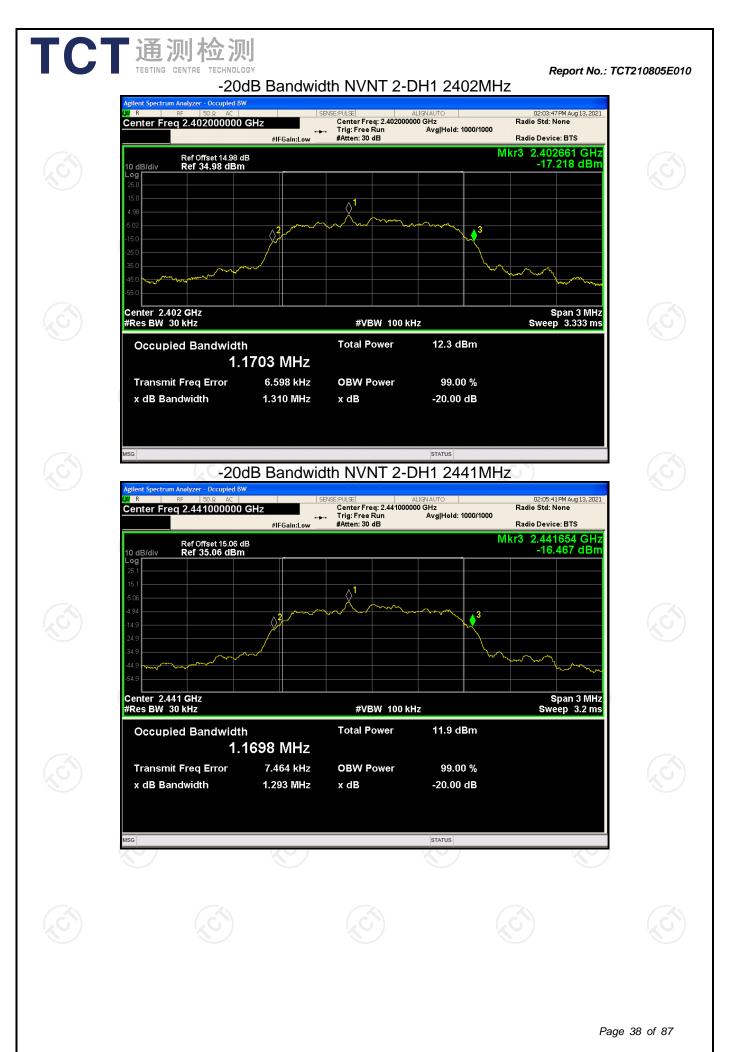
-20dB Bandwidth

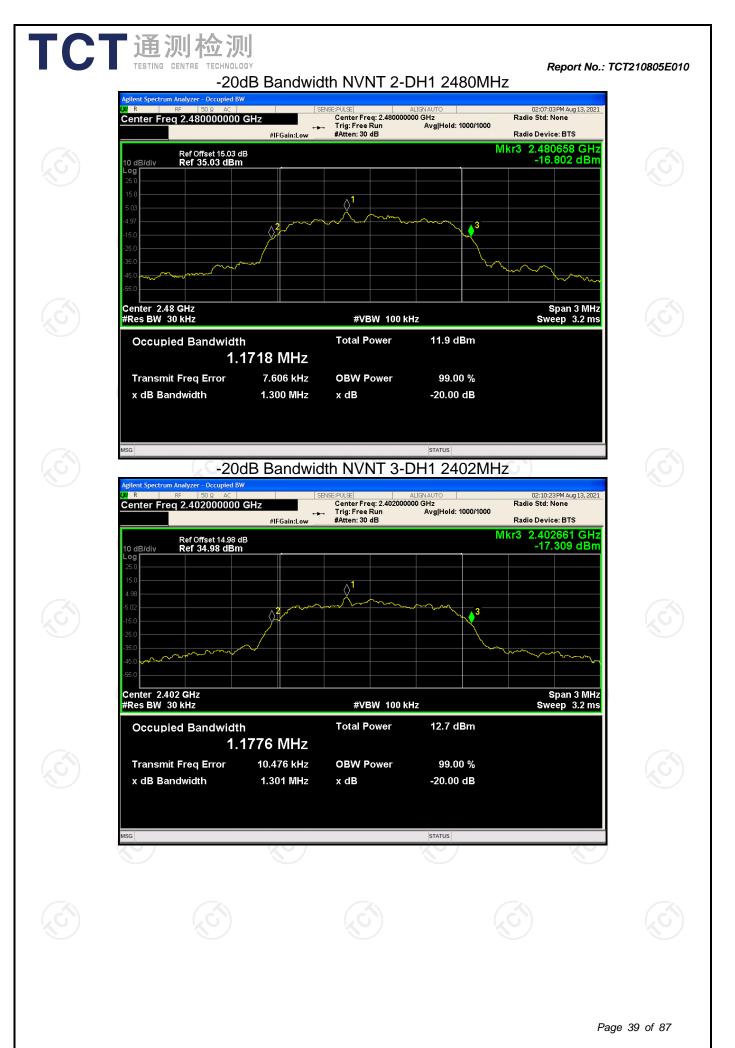
-20dB Bandwidth NVNT 1-DH1 2402MHz



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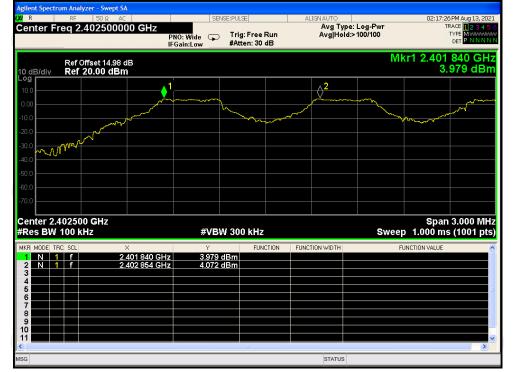




		•••••••••••••••••••••••••••••••••••••••				
Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
Condition	woue	(MHz)	(MHz)	(MHz)	(MHz)	verdict
NVNT	1-DH1	2401.84	2402.854	1.014	0.955	Pass
NVNT	1-DH1	2440.87	2441.848	0.978	0.955	Pass
NVNT	1-DH1	2479.023	2480.01	0.987	0.955	Pass
NVNT	2-DH1	2401.852	2402.857	1.005	0.873	Pass
NVNT	2-DH1	2440.84	2441.869	1.029	0.873	Pass
NVNT	2-DH1	2478.852	2479.851	0.999	0.873	Pass
NVNT	3-DH1	2401.855	2402.875	1.02	0.867	Pass
NVNT	3-DH1	2440.84	2441.836	0.996	0.867	Pass
NVNT	3-DH1	2478.867	2479.851	0.984	0.867	Pass

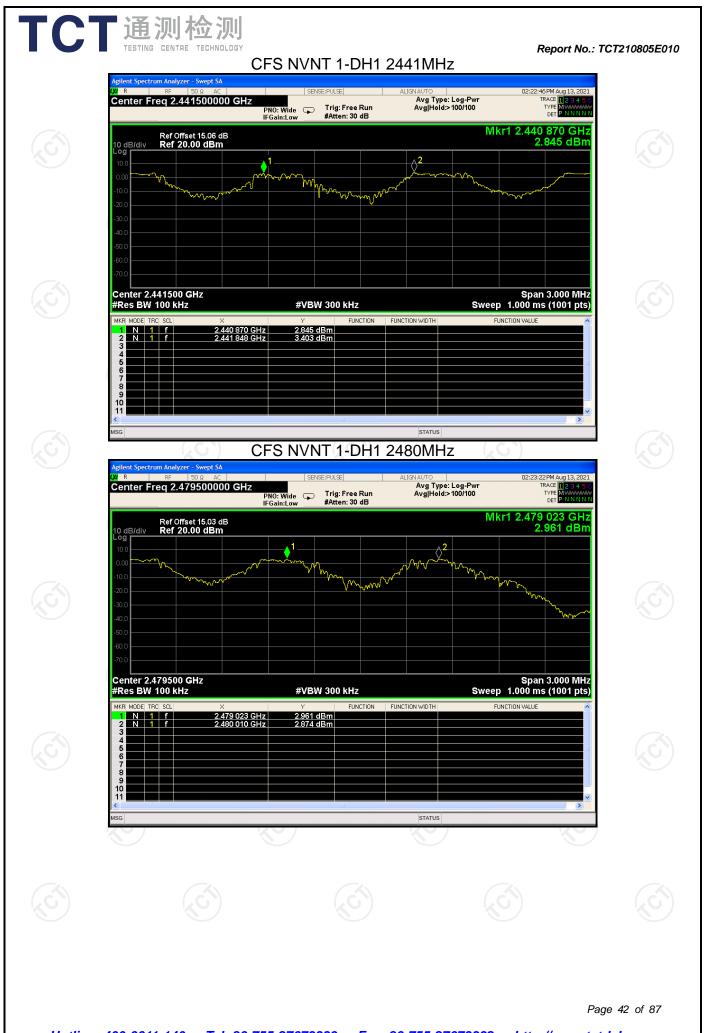
Carrier Frequencies Separation

CFS NVNT 1-DH1 2402MHz



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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



	R RF 50 Ω AC enter Freq 2.402500000 GHz	PNO: Wide IFGain:Low	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:30:00 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
10	Ref Offset 14.98 dB dB/div Ref 20.00 dBm			1 2.401 852 GHz 4.242 dBm	
0	0.0 .00	men and have an and	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-2					
-5 -6					
	enter 2.402500 GHz Res BW 100 kHz	#VBW 300 kHz	Sweep	Span 3.000 MHz 1.000 ms (1001 pts)	
	KR MODE TRC SCL X 1 N 1 f 2.401 852 GH 2 N 1 f 2.401 857 GH	Y FUNCTION iz 4.242 dBm iz 4.158 dBm	FUNCTION WIDTH FUN		
	3 4 5 6 7			11	
	8				
MSC	3	El Contra de Con	STATUS		
	ilent Spectrum Analyzer - Swept SA R RF 50 Ω AC	FS NVNT 2-DH1	2441MHz	02-26-20.004 (km 12, 2021	
	enter Freq 2.441500000 GHz	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold>100/100	02:36:30 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
10 Lo	Ref Offset 15.06 dB dB/div Ref 20.00 dBm			1 2.440 840 GHz 3.375 dBm	
0			2 m Morrison	m Man Man	
-2	0.0				
-50	0.0				
-70					
#F	enter 2.441500 GHz Res BW 100 kHz	#VBW 300 kHz	-	Span 3.000 MHz 1.000 ms (1001 pts)	
	1 N 1 f 2.440 840 GH 2 N 1 f 2.441 869 GH 3 4				
	5 6 7 7 8 7 7				
1 1 1				×	
MS	3		STATUS		

Cer	nter Freq 2.479500000 GHz	SENSE:PULSE PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:37:24 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MUMANNAN DET P.N.N.N.N.	
Log				2.478 852 GHz 3.576 dBm	
10.0 0.00 -10.0	why why and		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	
-20.0]			M.M.M.	
-40.0 -50.0 -60.0					
-70.0				Span 3.000 MHz	
#Re	es BW 100 kHz	#VBW 300 kHz Y FUNCTION z 3.576 dBm		I.000 ms (1001 pts)	
2 3 4 5		z 3.147 dBm			
6 7 8 9					
10 11 <				×	
MSG		FS NVNT 3-DH1	status 2402MHz	`)	
LXI F	nter Freq 2.402500000 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:44:57 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW	
10.6	Ref Offset 14.98 dB IB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mkr1	2.401 855 GHz 4.394 dBm	
10.0 0.00		1			
-10.0			in and and the		
-30.0					
-60.0 -70.0)				
Cei #Re	nter 2.402500 GHz es BW 100 kHz	#VBW 300 kHz	Sweep 1	Span 3.000 MHz I.000 ms (1001 pts)	
мкя 1 2 3		Y FUNCTION z 4.394 dBm z 3.225 dBm	FUNCTION WIDTH FUNCT		
4 5 6 7					
8 9 10 11					
MSG	21		STATUS		

(X) R Cente	RF 50 Ω AC r Freq 2.4415000000 GHz	PNO: Wide IFGain:Low	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:49:25 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NINININ	
10 dB/d Log	Ref Offset 15.06 dB liv Ref 20.00 dBm	1	Mkr	1 2.440 840 GHz 3.536 dBm	
0.00	and have and	- Amandram Maran		mmpr	
-30.0					
-50.0					
#Res I	r 2.441500 GHz 3W 100 kHz	#VBW 300 kHz	-	Span 3.000 MHz 1.000 ms (1001 pts)	
1 N	I FRC X 1 f 2.440 840 GH 1 f 2.441 836 GH	z 3,536 dBm z 3,339 dBm	FUNCTION WIDTH FUNC		
5 6 7 8 9					
10 11 ×			STATUS	~	
	C	FS NVNT 3-DH1)	
LXI R	RF 50 Ω AC r Freq 2.479500000 GHz	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold>100/100	02:56:33 PM Aug 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
10 dB/d Log	Ref Offset 15.03 dB liv Ref 20.00 dBm			1 2.478 867 GHz 3.354 dBm	
-10.0 -10.0	man man was a series of the se		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	
-20.0				m	
-50.0					
-70.0 Cente #Res B	r 2.479500 GHz 3W 100 kHz	#VBW 300 kHz	Sweep	Span 3.000 MHz 1.000 ms (1001 pts)	
	E TRC SCL X 1 f 2.478 867 GH 1 f 2.479 851 GH	Y FUNCTION		TION VALUE	
4 5 6 7					
8 9 10 11				×	
MSG	/		STATUS	•	



Report No.: TCT210805E010

Number of Hopping Channel Mode Hopping Number Limit Condition Verdict **NVNT** 1-DH1 79 15 Pass 2-DH1 79 NVNT 15 Pass NVNT 3-DH1 79 15 Pass

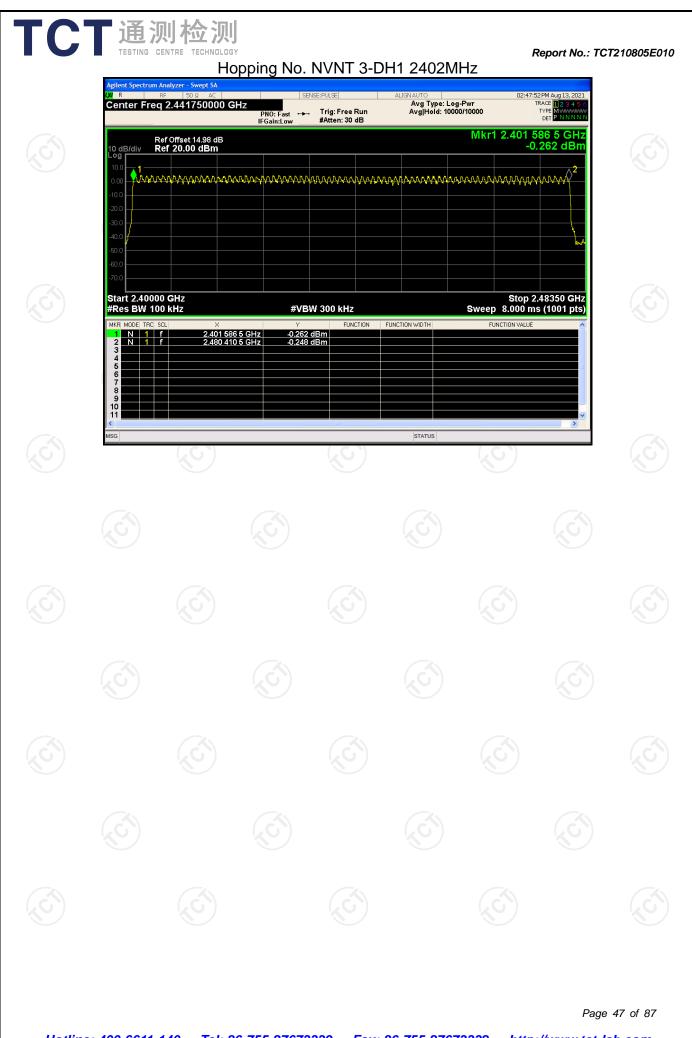
Hopping No. NVNT 1-DH1 2402MHz

R	RF	lyzer - Swept SA 50 Ω AC 2.44175000	00 GHz	PNO: Fast 🔸	NSE:PULSE			Type: I	Log-Pwr 000/4000	TF	FPM Aug 13, 20 RACE 1 2 3 4 TYPE MWWWW DET P N N N
0 dB/div	Ref Ref	Offset 14.98 d 20.00 dBm	В	Gain:Low	#Atten: 30	dB			Mkr	1 2.401 9: 3.	
og 10.0 - • 1 - 0.00 - • • • • • 10.0 - • • • • • •	WW									WWWW	2 1
30.0 40.0											
50.0 70.0 Start 2.40 Res BW				#VB	W 300 KH:	<u></u>			Sweet	Stop 2. 8.000 ms	48350 GI (1001 pt
KR MODE TI 1 N 1 2 N 1 3 4 5 5	f	2.40	(11 920 5 GHz 9 909 5 GHz	¥ 3.986 3.061	dBm	NCTION	FUNCTION WID	TH	FI	JNCTION VALUE	
6 7 8 9 0 1											

Hopping No. NVNT 2-DH1 2402MHz

ilent Spectr	r <mark>um Ana</mark> RE	l <mark>lyzer - Swept SA</mark> 50 Ω AC		5	INSE:PULSE		ALIGN AUTO		05-35-3	7 PM Aug 13, 2
		.44175000	P	PNO: Fast	Teles F	ree Run 30 dB	Avg Ty	pe: Log-Pwr Id: 8000/8000	Т	RACE 1234 TYPE MWWW DET PNNN
) dB/div		Offset 14.98 d 20.00 dBm						Mkr	1 2.401 5 -0.	03 0 GI 172 dB
	ԱՌՈՂ	ᢣᠺᡘᢏᠺᡧᡘᡘ	<u>ՆՆՆՆՆՆՆՆՆՆՆ</u>		᠕ᡙᡘᢑᡁᡘ	ᠺᢑᡅᡘᡅ᠇ᢈ	ᡅᡳᡳ᠋᠕ᢣ᠕ᢢᡘᡅᡮ	ᡁᡘ᠕ᡘᡘᡘᡘᡘ	<u>, Դ</u> ԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴԴ	www
0.0										
0.0										
0.0										
tart 2.40 Res BW				#VB	W 300 k	Hz		Swee	Stop 2. p 8.000 ms	48350 G s (1001 p
KR MODE TR 1 N 1 2 N 1 3	f		1 503 0 GHz 0 410 5 GHz	۲ -0.172 -0.125		FUNCTION	FUNCTION WIDTH	F	UNCTION VALUE	
4 5 6 7 8										
9										
G							STATUS			

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Frequency

2402

2402

2402

2402

2402

2402

2402

CT通测检测

1-DH5

2-DH1

2-DH3

2-DH5

3-DH1

3-DH3

3-DH5

NVNT

NVNT

NVNT

NVNT

NVNT

NVNT

NVNT

TESTING CENTRE TECHNOLOGY

Dwell NVNT 1-DH1 2402MHz

Dwell Time

Total Dwell

307.627

123.52

262.24

307.84

123.84

262.08

308.053

Period

Time (ms)

31600

31600

31600

31600

31600

31600

31600

31600

31600

Pulse

2.884

0.386

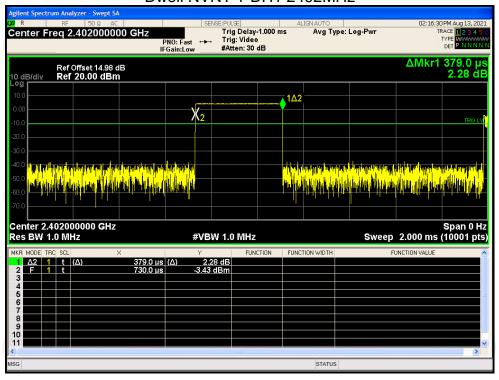
1.639

2.886

0.387

1.638

2.888



Report No.: TCT210805E010

Verdict

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Limit

(ms)

400

400

400

400

400

400

400

400

400

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^{μα} R RF 50Ω AC Center Freq 2.402000000		Trig Delay-1.000 ms	ALIGNAUTO Avg Type: Log-Pwr	02:25:15PM Aug 13, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P NN NN	1 6 M
Ref Offset 14.98 dB 10 dB/div Ref 20.00 dBm				∆Mkr1 1.635 m 7.86 dI	
10.0	X2				
-20.0					
-40.0 -50.0 -60.0 -70.0				tan yanadaya balaya balaya Mila Alisan Isan Isan Isan Isan Isan Mila Mila Mila Mila Mila Mila Mila Mila	
Center 2.402000000 GHz Res BW 1.0 MHz	#VE	BW 1.0 MHz	Swee	Span 0 H: 5 3.000 ms (10001 pts FUNCTION VALUE	
1 Δ2 1 t (Δ) 2 F 1 t 3 - - - 4 - - - 6 - - - 7 - - - 8 - - - 9 - - - 10 - - - 11 - - -	1.635 ms (Δ) 7 819.9 μs -5.2	.86 dB			2
MSG	 Dwell N∖	/NT 1-DH5 24	status 402MHz	(G [*])	
Agilent Spectrum Analyzer - Swept SA μμ R RF 50 Ω AC Center Freq 2.402000000 C		Trig Delay-1.000 ms	ALIGNAUTO Avg Type: Log-Pwr	02:25:47PM Aug 13, 202 TRACE 12345 TYPE WWWWW DET PNNNN	1
Ref Offset 14.98 dB 10 dB/div Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB		ΔMkr1 2.884 m -14.50 dB	5
10.0 0.00	ζ ₂				
-10.0				1Δ2 ⊻	
-20.0					
30.0 1.40.0 <td></td> <td>BW 1.0 MHz</td> <td></td> <td>Span 0 H 5 4.000 ms (10001 pts</td> <td></td>		BW 1.0 MHz		Span 0 H 5 4.000 ms (10001 pts	
30.0 40.0 50.0 50.0 70.0 Center 2.402000000 GHz	Υ 2.884 ms (Δ) -14		Swee	Span 0 H 2 4.000 ms (10001 pts	
30.0	Y	FUNCTION FUN		Span 0 H 5 4.000 ms (10001 pts	
30.0 -40.0 <t< td=""><td>Y</td><td>FUNCTION FUN</td><td></td><td>Span 0 H 5 4.000 ms (10001 pts</td><td></td></t<>	Y	FUNCTION FUN		Span 0 H 5 4.000 ms (10001 pts	
30.0	Y	FUNCTION FUN		Span 0 H Span 0 H 5 4.000 ms (10001 pts	
30.0 -40.0 <t< td=""><td>Y</td><td>FUNCTION FUN</td><td></td><td>Span 0 H Span 0 H 5 4.000 ms (10001 pts</td><td></td></t<>	Y	FUNCTION FUN		Span 0 H Span 0 H 5 4.000 ms (10001 pts	

ØX RF 50 Ω AC SENSE:PULSE ALIGN AUTO 02:26:37 MA AUG 13, 2021 Center Freq 2.402000000 GHz Trig Delay-1.000 ms Avg Type: Log-Pwr Trace 12:34:55 PN0: Fast Trig: Video Trig: Video Trig: Video 02:16:37 MA AUG 13, 2021 IFGain:Low #Atten: 30 dB Det NNNIN	
Ref Offset 14.98 dB ΔMkr1 386.0 μs 10 dB/div Ref 20.00 dBm -3.14 dB	(ct
-10.0	
Center 2.402000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (10001 pts)	
MKR MODE TRC State Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 Δ2 1 t (Δ) 336.0 µs (Δ) 3.14 dB 2 F 1 t 814.0 µs -0.86 dBm -0.86 dBm	
11 STATUS	
Dwell NVNT 2-DH3 2402MHz	
Ø R RF 50 Ω AC SENSE:PULSE ALIGN AUTO 02:38:41PM Aug 13, 2021 Center Freq 2.402000000 GHz Trig Delay-1.000 ms Avg Type: Log-Pwr TRACE 12:3:4:5 G PN0: Fast → Trig: Video Trig: Video Trig: Video	
IFGain:Low #Atten: 30 dB Del Industria Ref Offset 14.98 dB ΔMkr1 1.639 ms -1.01 dB 10 dB/div Ref 20.00 dBm -1.01 dB	
-10.0 TRIG LVL	
-20.0	
Center 2.402000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.000 ms (10001 pts)	
MKR MODE TRC SCI X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 Δ2 1 t t(Δ) 1.639 ms (Δ) -1.01 dB <	
	6
MSG STATUS	ļ

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Ce	ent Spectrum Analyzer - Swept SA R RF 50 Ω AC SENSE:PULSE ALIGN AUTO 02:39:03 PM Aug 13, 2021 enter Freq 2.402000000 GHz Trig Delay-1.000 ms Avg Type: Log-Pwr TRACE 02:3 4 5 6 PN0: Fast +→ Trig: Video Type Without Autor: 30 dB Der P NNNNN	
10	IFGain:Low #Atten: 30 dB Del patientitie Ref Offset 14.98 dB AMkr1 2.886 ms -0.44 dB g -0.44 dB -0.44 dB	
10		
-10 -20 -30		
-40	no <mark>manufatilitati kutati ante ante ante ante ante ante ante ante</mark>	
-60 -70		
Re	enter 2.402000000 GHz Span 0 Hz es BW 1.0 MHz #VBW 1.0 MHz Sweep 4.000 ms (10001 pts)	
1 2 3		
4 5 6 7 8		
9 10 11		
MSG	Dwell NVNT 3-DH1 2402MHz	
LXI	ent Spectrum Analyzer - Swept SA R RF 50 g AC SENSE/PULSE ALIGNAUTO 02:39:46 PM Aug 13, 2021	
Ce	enter Freq 2.402000000 GHz Trig Delay-1.000 ms Avg Type: Log-Pwr TRACE 1234.5 6 PN0: Fast IFGain:Low #Atten: 30 dB Delay 1.000 ms Avg Type: Log-Pwr TRACE 1234.5 6 PM0: Fast Philos Phil	
10 Los		
0.0		
-20		
-40 -50 -60	¹ Note that is a property of the second s	
-70		
Re	Image: SBW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (10001 pts) R Model TRC ScL Y FUNCTION FUNCTION VIDTH FUNCTION VALUE	
3		
5 6 7 8		
9 10 11		
	STATUS	
MSG		
MSG		

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TC	通测检测 TESTING CENTRE TECHNOLOGY Report No.: TO Dwell NVNT 3-DH3 2402MHz	CT210805E010
	Aglient Spectrum Analyzer - Swept SA (X R RF 50 Q AC SENSE:PULSE) ALIGNAUTO 02:58:29 PM Aug 13, 2021 Center Freq 2.402000000 GHz PN0: Fast IFGain:Low HAtten: 30 dB PN0: Past PN0: Fast IFGain:Low	
	Ref Offset 14.98 dB ΔMkr1 1.638 ms 0.38 dB 10 dB/div Ref 20.00 dBm 0.38 dB 10 dB/div Ref 20.00 dBm 1Δ2 10 dV X2 10 dV 1Δ2 10 dV X2 10 dV 1Δ2 -10 dV X2 10 dV 10 dV -20 dV -20 dV -20 dV 10 dV -30 dV -20 dV -20 dV -20 dV	
	Center 2.402000000 GHz #VBW 1.0 MHz Sweep 3.000 ms (10001 pts)	
	MKR MODE The Sci. X Y FUNCTION FUNCTION V/DTH FUNCTION V/LUE 1 Δ2 1 t (Δ) 1.638 ms (Δ) 0.38 dB - <td></td>	
	Agilent Spectrum Analyzer - Swept SA Agilent Spectrum Analyzer - Swept SA Center Freq 2.402000000 GHz PNO: Fast IFGain:Low Ref Offset 14.98 dB 10 dB/div Ref 20.00 dBm Agilent Spectrum Analyzer - Swept SA PNO: Fast IFGain:Low Agilent Spectrum Analyzer - Swept SA PNO: Fast IFGain:Low Agilent Spectrum Analyzer - Swept SA Agilent Spectrum Analyzer - Swept SA A	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
	Center 2.402000000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Span 0 Hz Sweep 4.000 ms (10001 pts) MKR MODE TRC SEL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 A2 1 t (A) 2.888 ms (A) 4.65 dB FUNCTION FUNCTION VALUE 2 F 1 t 789.6 µs -1.52 dBm -	

-10.0								
-20.0				\rightarrow				
-30.0		ļ.,	/	/	L			
-40.0		R. Madara			M			
	Manahanna	mart			home	m	m	man
-50.0								
-60.0								
-70.0								
Center 2.402000 G #Res BW 100 kHz	Hz	#\/B	W 300 kHz			Swee	Span	8.000 MHz (1001 pts)
MSG		# V E	WY 300 KHZ		STATUS	Gwee	5 1.000 ms	(Toor pra)

Band Edge NVNT 1-DH1 2402MHz No-Hopping Ref

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

Band Edge Frequency Max Value Hopping Condition Mode Limit (dBc) Verdict (MHz) Mode (dBc) -47.53 NVNT 1-DH1 2402 **No-Hopping** -20 Pass Pass **NVNT** 1-DH1 2480 **No-Hopping** -47.46 -20 No-Hopping Pass NVNT 2-DH1 2402 -48.36 -20 NVNT 2-DH1 2480 **No-Hopping** -46.43 -20 Pass No-Hopping **NVNT** 3-DH1 2402 -48 -20 Pass 3-DH1 No-Hopping -47.62 Pass **NVNT** 2480 -20

R

10 dB/div Log

Center Freq 2.402000000 GHz

Ref Offset 14.98 dB Ref 20.00 dBm

Trig: Free Run #Atten: 30 dB

PNO: Wide ↔↔ IFGain:Low

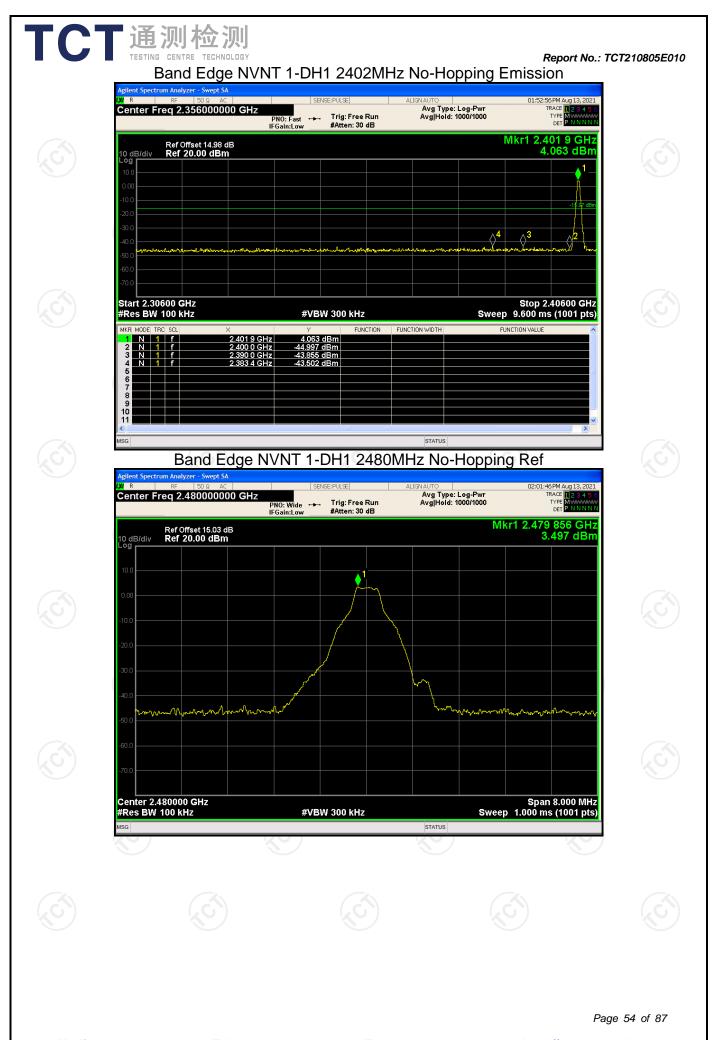
Hotline: 400-6611-140 Tel: 86-755-27673339 http://www.tct-lab.com Fax: 86-755-27673332

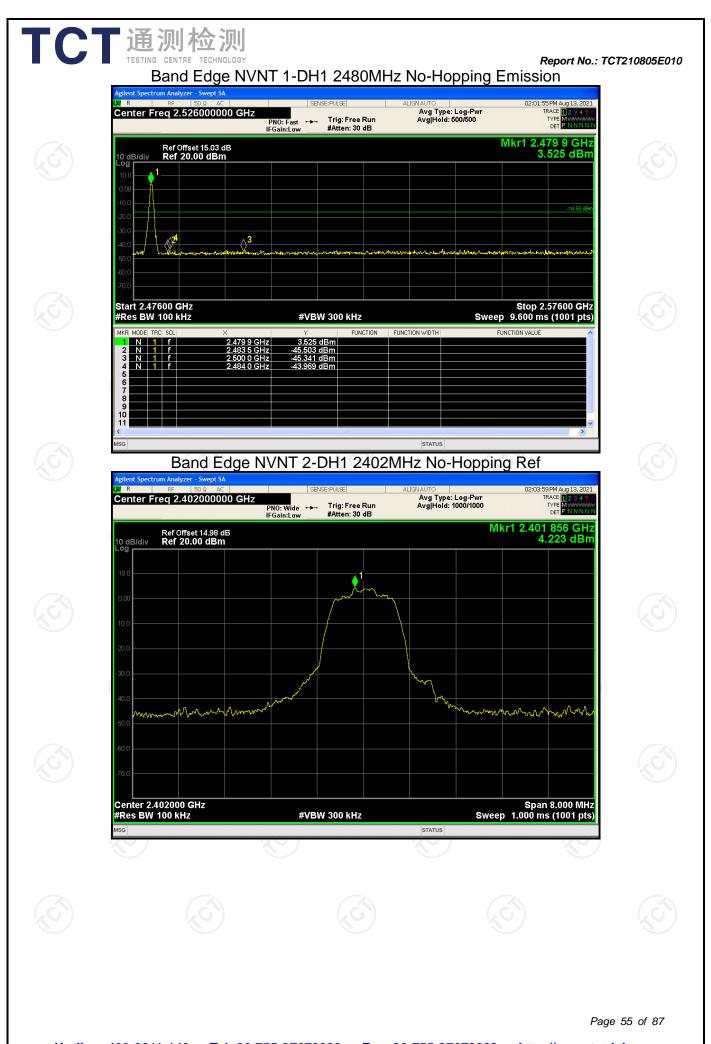
Report No.: TCT210805E010

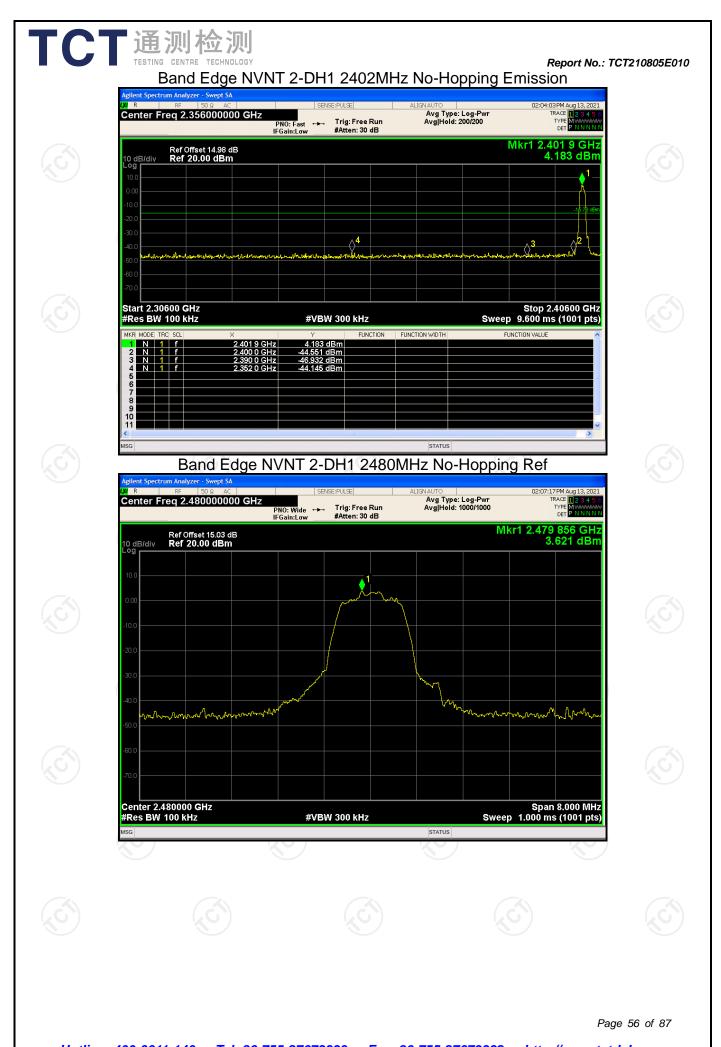
01:52:39 PM Aug 13, 2021 TRACE **1 2 3 4 5** 6

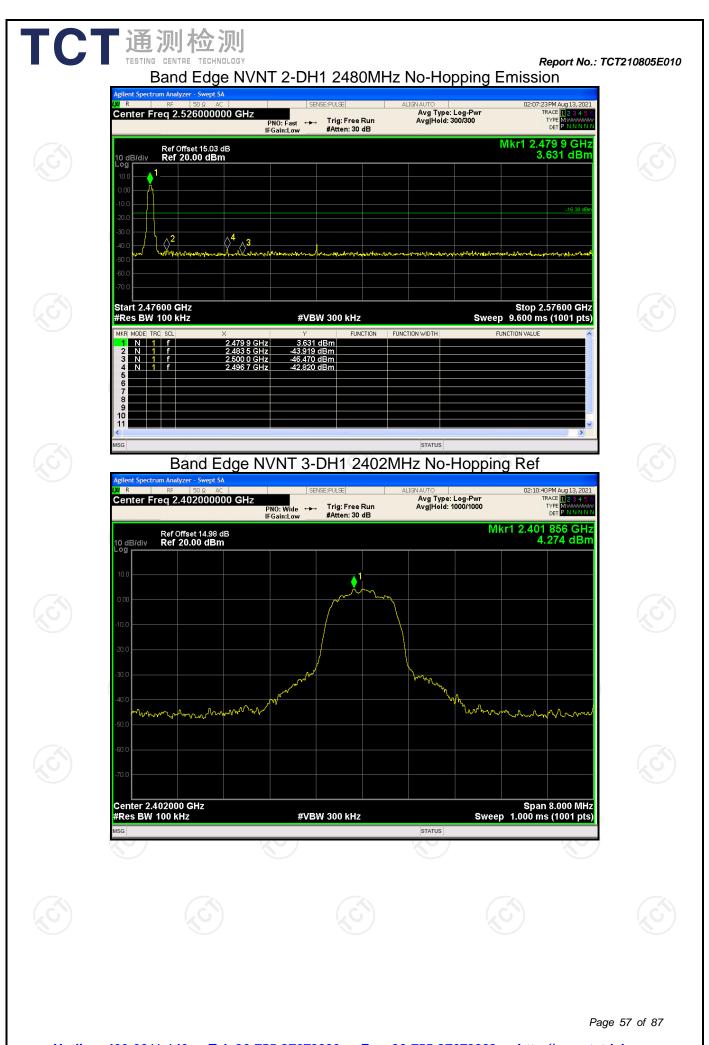
TYPE N DET P

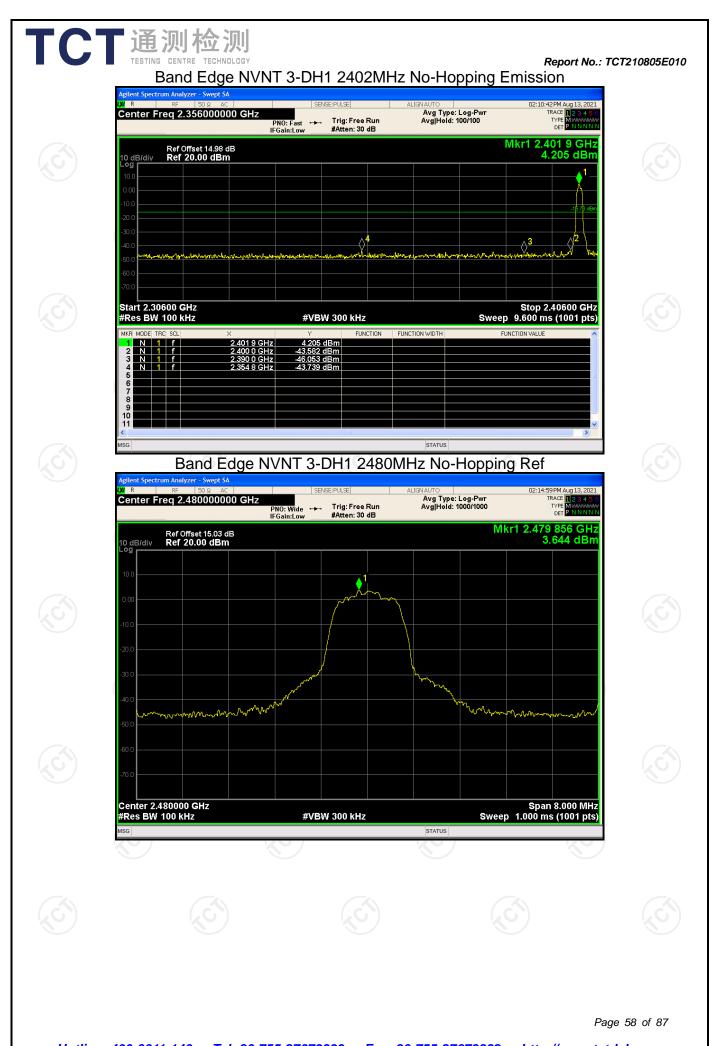
Mkr1 2.401 856 GHz 4.030 dBm

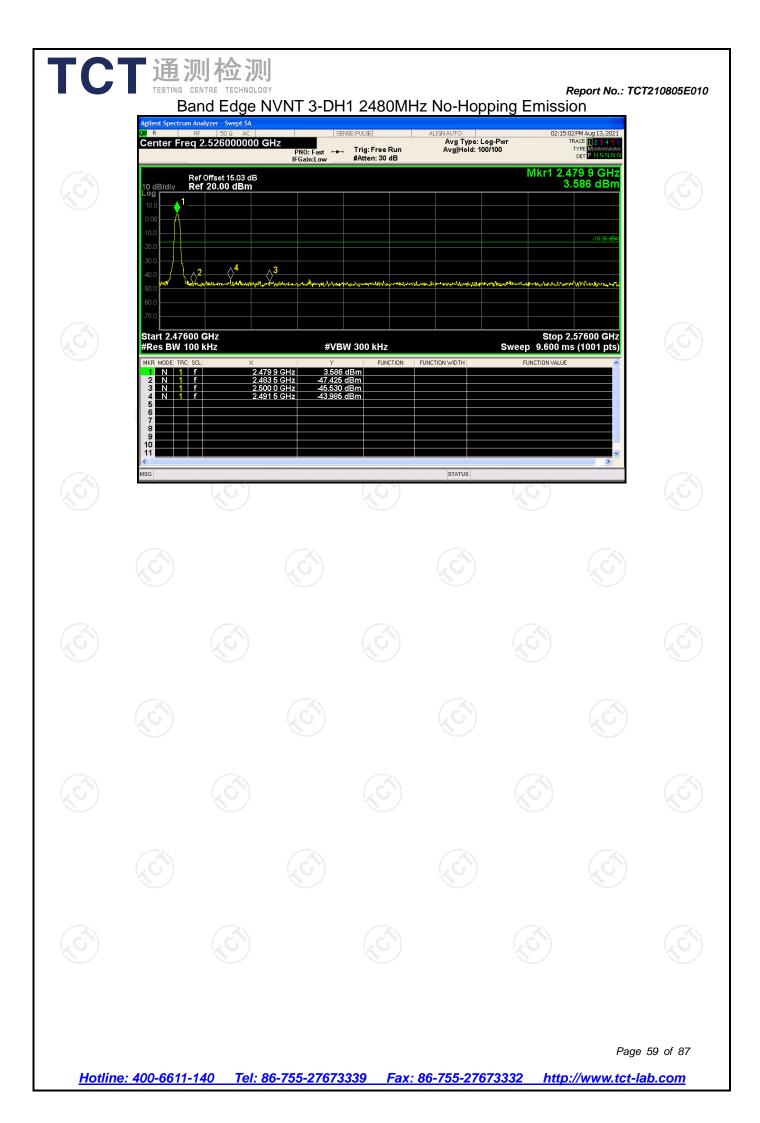














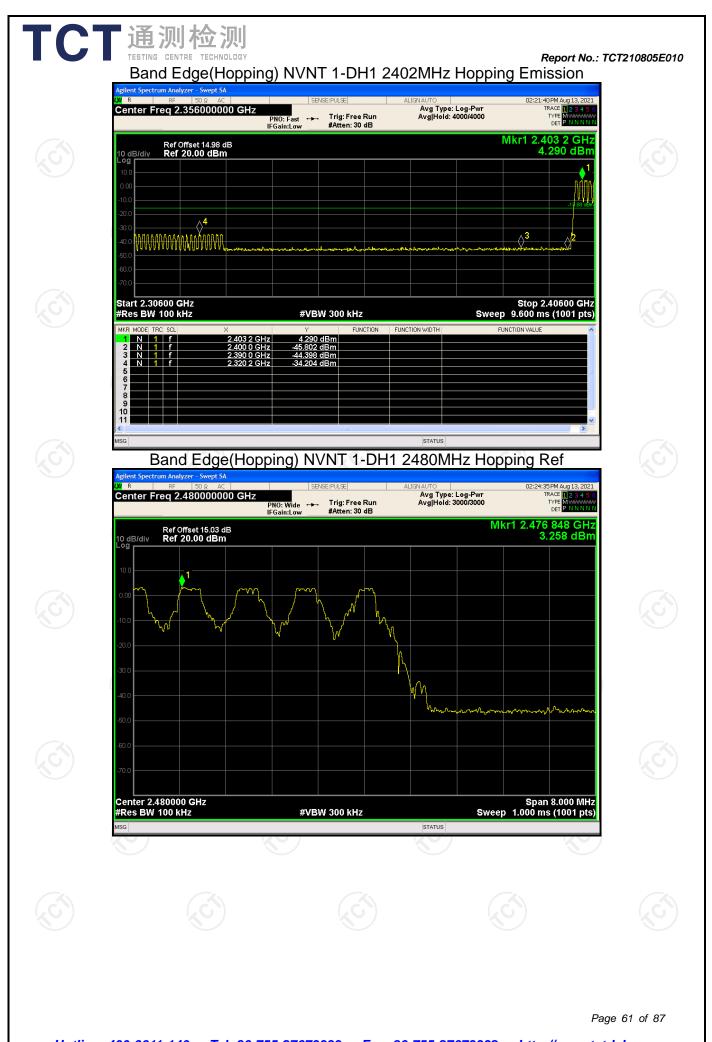
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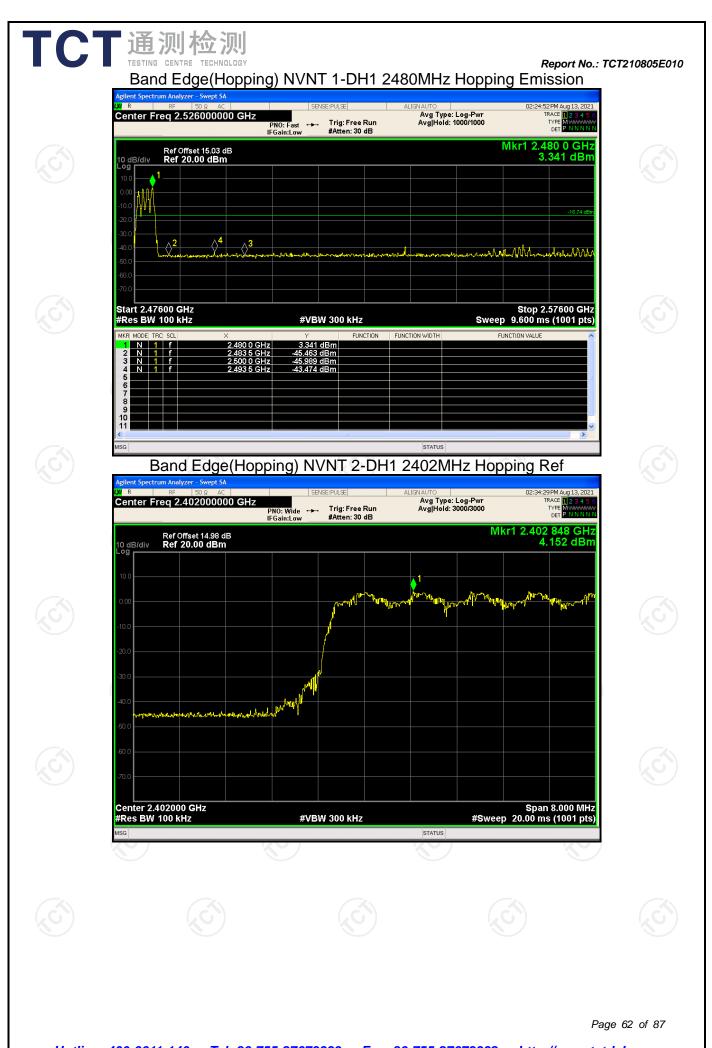
Bana Eage(nopping)											
Condition	Modo	Frequency	Hopping	Max Value	Limit	Verdict					
Condition	MODE	(MHz)	Mode	(dBc)	(dBc)	veruici					
NVNT	1-DH1	2402	Hopping	-38.32	-20	Pass					
NVNT	1-DH1	2480	Hopping	-46.73	-20	Pass					
NVNT	2-DH1	2402	Hopping	-47.95	-20	Pass					
NVNT	2-DH1	2480	Hopping	-47.6	-20	Pass					
NVNT	3-DH1	2402	Hopping	-48.11	-20	Pass					
NVNT	3-DH1	2480	Hopping	-46.88	-20	Pass					
	NVNT NVNT NVNT NVNT	NVNT 1-DH1 NVNT 1-DH1 NVNT 2-DH1 NVNT 2-DH1 NVNT 3-DH1	Condition Mode Frequency (MHz) NVNT 1-DH1 2402 NVNT 1-DH1 2480 NVNT 2-DH1 2402 NVNT 2-DH1 2402 NVNT 3-DH1 2402	ConditionModeFrequency (MHz)Hopping ModeNVNT1-DH12402HoppingNVNT1-DH12480HoppingNVNT2-DH12402HoppingNVNT2-DH12480HoppingNVNT3-DH12402Hopping	ConditionModeFrequency (MHz)Hopping ModeMax Value (dBc)NVNT1-DH12402Hopping-38.32NVNT1-DH12480Hopping-46.73NVNT2-DH12402Hopping-47.95NVNT2-DH12480Hopping-47.6NVNT3-DH12402Hopping-48.11	ConditionModeFrequency (MHz)Hopping ModeMax Value (dBc)Limit (dBc)NVNT1-DH12402Hopping-38.32-20NVNT1-DH12480Hopping-46.73-20NVNT2-DH12402Hopping-47.95-20NVNT2-DH12480Hopping-47.6-20NVNT3-DH12402Hopping-47.6-20					

Band Edge(Hopping)

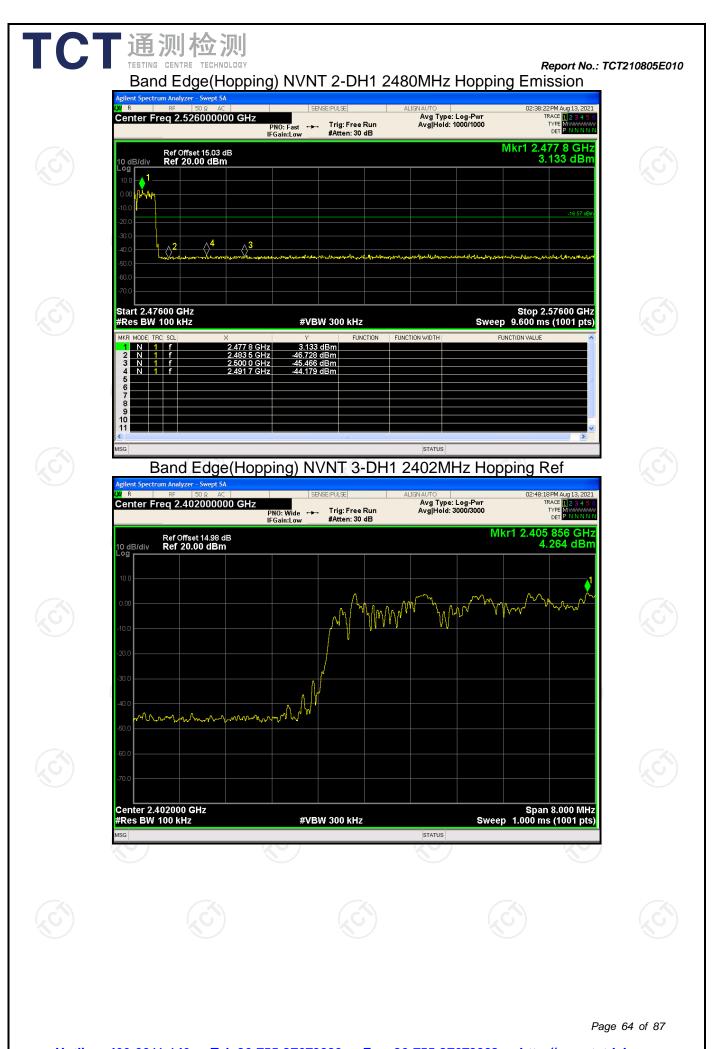
Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Ref

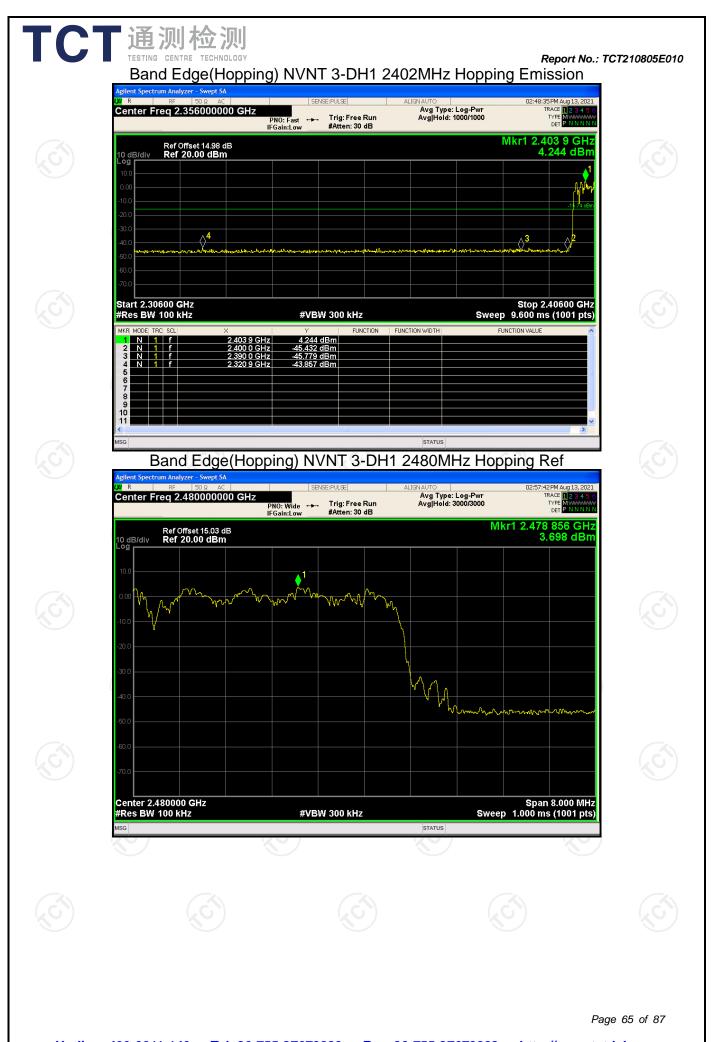


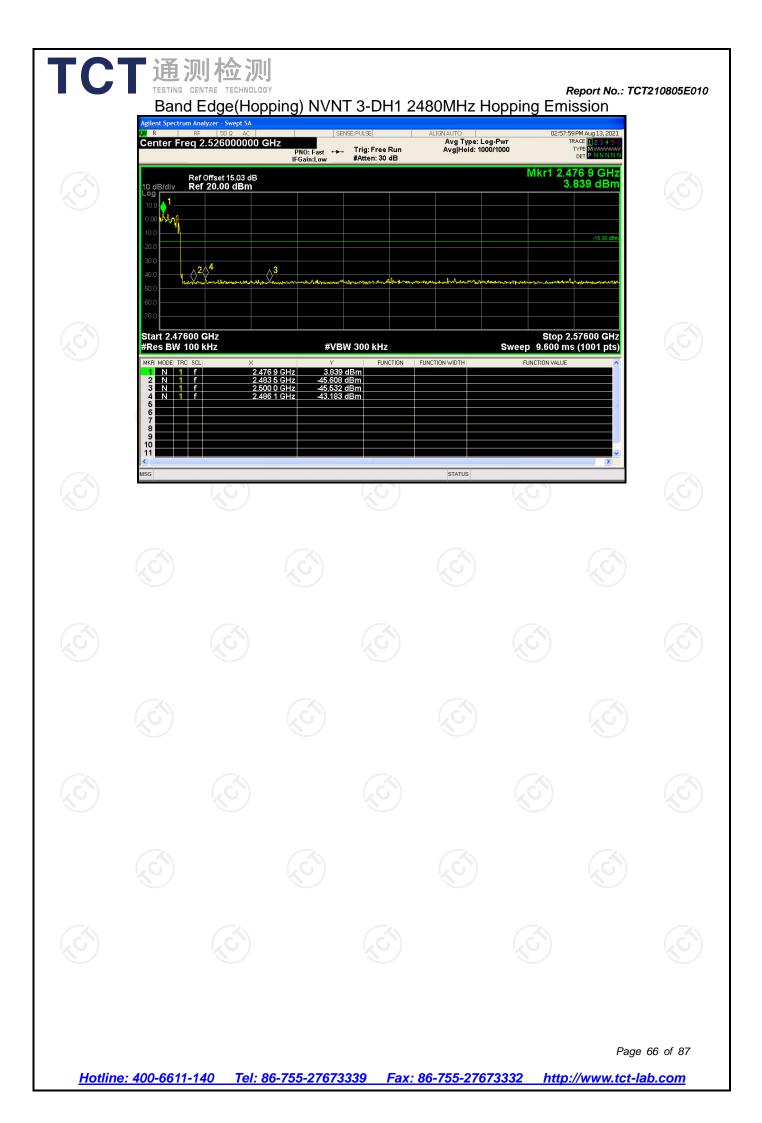












Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-36.23	-20	Pass
NVNT	1-DH1	2441	-35.67	-20	Pass
NVNT	1-DH1	2480	-35.84	-20	Pass
NVNT	2-DH1	2402	-35.66	-20	Pass
NVNT	2-DH1	2441	-35.89	-20	Pass
NVNT	2-DH1	2480	-35.53	-20	Pass
NVNT	3-DH1	2402	-36.19	-20	Pass
NVNT	3-DH1	2441	-35.26	-20	Pass
NVNT	3-DH1	2480	-35.02	-20	Pass

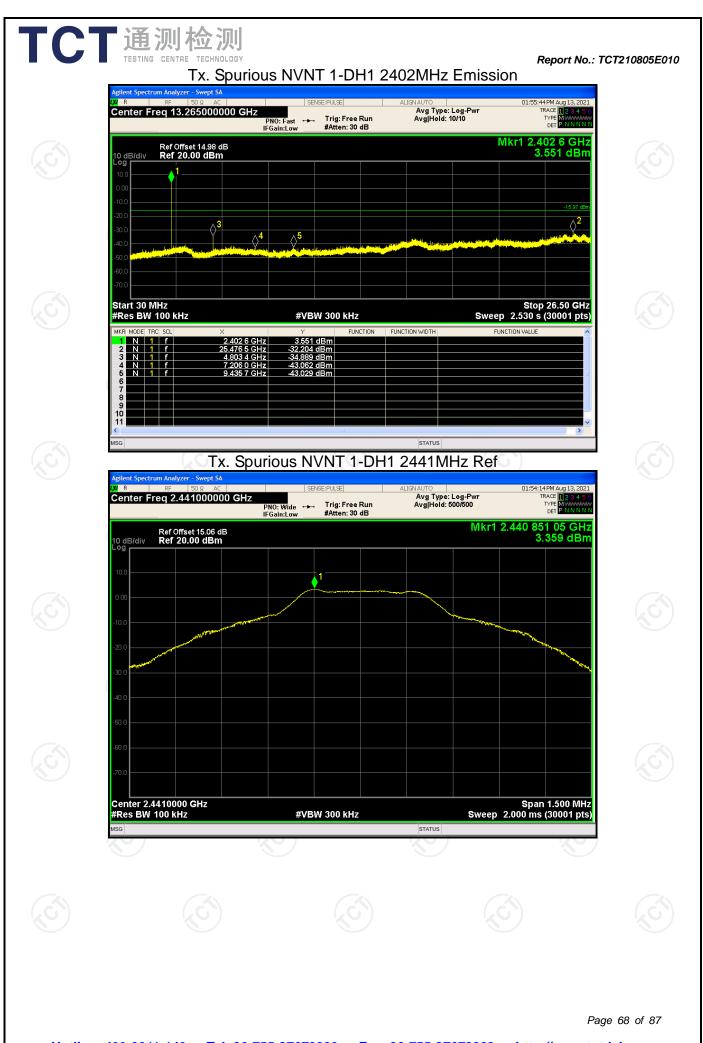
Conducted RF Spurious Emission

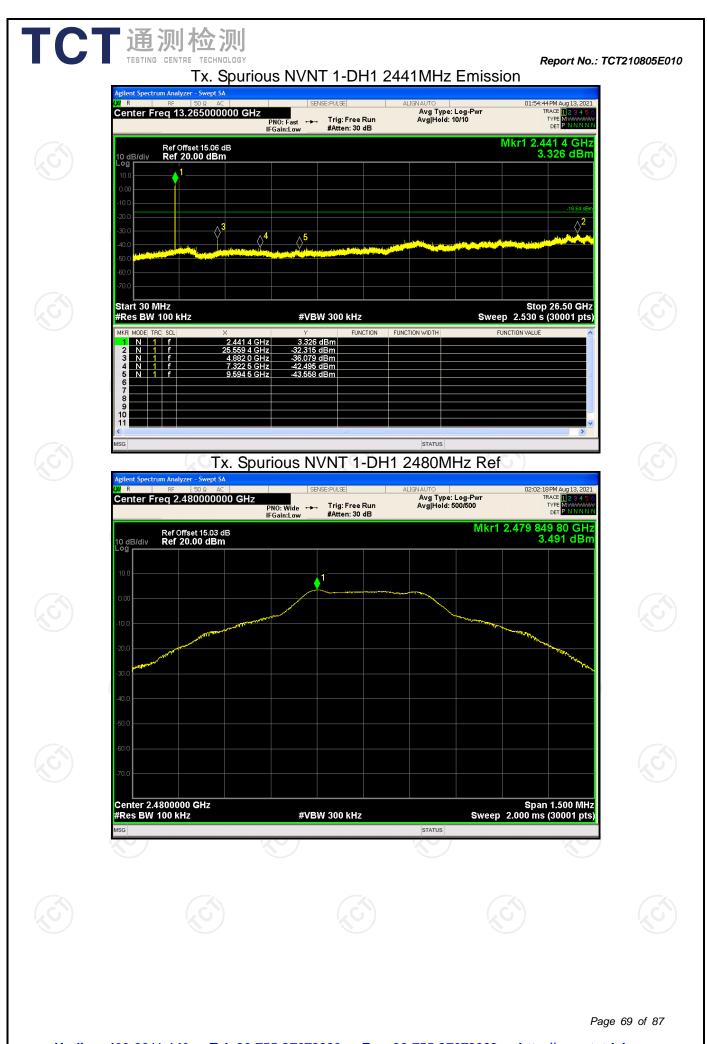
Tx. Spurious NVNT 1-DH1 2402MHz Ref



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