TCT 通测检				
TESTING GENTRE TE	TEST REPOR	Т		
FCC ID :	2ALNA-BTH92S			
Test Report No:	FCT210219E028			
Date of issue:	Oct. 21, 2021			
Testing laboratory: :	SHENZHEN TONGCE TESTING	I LAB		
Testing location/ address:	TCT Testing Industrial Park Fuqia Street, Bao'an District Shenzhen Republic of China			
Applicant's name::	Shenzhen Thousandshores Tech	nnology Co., Ltd.		
Address:	5/F, Chuangxin Building, Seven-s Alley, Chuangye 2nd Road, Bao's China			
Manufacturer's name :	Shenzhen Thousandshores Tech	nnology Co., Ltd.		
Address::	5/F, Chuangxin Building, Seven-star Creative Square, No.2North Alley, Chuangye 2nd Road, Bao'an Dis 28th, ShenZhen, 518000 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 Earbuds	$\langle \mathcal{C} \rangle$		
Trade Mark:	Tribit			
Model/Type reference :	BTH92S, BTH92S1			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V		
Date of receipt of test item	Feb. 19, 2021			
Date (s) of performance of test:	Feb. 19, 2021 - Oct. 21, 2021			
Tested by (+signature) :	Aaron Mo	Laron Lagonger		
Check by (+signature) :	Beryl Zhao	Buy Z TCT		
Approved by (+signature):	Tomsin	Tom States 35		
General disclaimer: This report shall not be repr	oduced except in full, without the	written approval of SHENZHEN		

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1. General Product Information

1.1. EUT description

Test item description::	True Wireless Earbuds	
Model/Type reference:	BTH92S	
Sample Number	TCT210219E028-0101	
Bluetooth Version:	V5.2	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	Internal Antenna	
Antenna Gain:	0.98dbi	\mathcal{O}
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	
Remark:		$\left(\mathcal{C}^{\prime}\right)$

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
1	BTH92S	\square
Other models	BTH92S1	

Note: BTH92S is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of BTH92S can represent the remaining models.



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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
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	- 39	2441MHz	- 59	2461MHz		-

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





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:	25.9 °C	24.3 °C		
Humidity:	57 % RH	54 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Software:				
Software Information:	Software Information: AB1562 Lab Test Tool-1.4.10			
Power Level: 61				

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 Name
1	1	1	/	

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: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

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



5. Test Results and Measurement Data

5.1. Antenna requirement

FCC Part15 C Section 15.203 /247(c) **Standard requirement:** 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. E.U.T Antenna: The Bluetooth antenna is internal antenna which permanently attached, and the best case gain of the antenna is 0.98dbi. 60 Antenna 00 90 80 20 60 20 40 30 50 10 mm



5.2. Conducted Emission

5.2.1. Test Specification

			()	
Test Requirement:	FCC Part15 C Section 15.207 ANSI C63.10:2013 150 kHz to 30 MHz			
Test Method:				
Frequency Range:				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto	
	Frequency range	Limit (dBuV)	
	(MHz)	Quasi-peak	Average	
Limits:	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	Referenc	e Plane		
Test Setup:	E.U.T AC powe Test table/Insulation plane Remark E.U.T	EMI Receiver	— AC power	
	LISN: Line Impedence Stabilization N Test table height=0.8m	etwork		
Test Mode:	LISN: Line Impedence Stabilization N Test table height=0.8m Charging mode		0	
	 LISN Line Impedence Stabilization N Test table height=0.8m Charging mode The E.U.T is conner impedance stabilize provides a 500hm/s measuring equipme The peripheral device power through a Line coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables 	ected to an adapte ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checkence. In order to fin e positions of equ 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 maximun nd the maximun ipment and all o according to	
Test Mode: Test Procedure: Test Result:	 LISN Line Impedence Stabilization N Test table height=0.8m Charging mode The E.U.T is conner impedance stabiliz provides a 50ohm/s measuring equipme The peripheral device power through a L coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative 	ected to an adapte ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checkence. In order to fin e positions of equ 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 maximun nd the maximun ipment and all o according to	

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5.2.2. Test Instruments

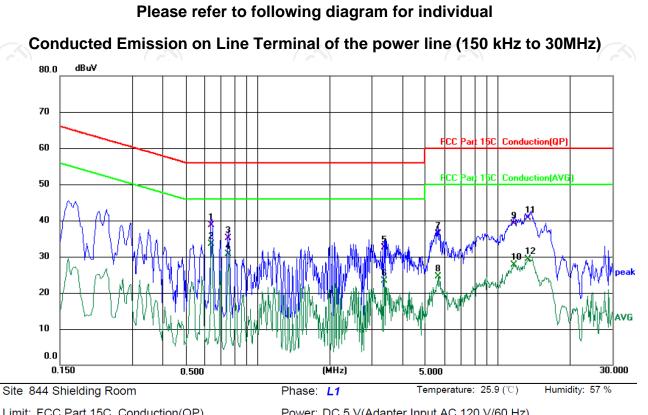
	Conducted Emission Shielding Room Test Site (843)						
	Equipment	Manufacturer	Model	Serial Number	Calibration Due		
0	EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022		
	Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Mar. 11, 2022		
	Line-5	ТСТ	CE-05	N/A	Jul. 07, 2022		
	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		



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5.2.3. Test data

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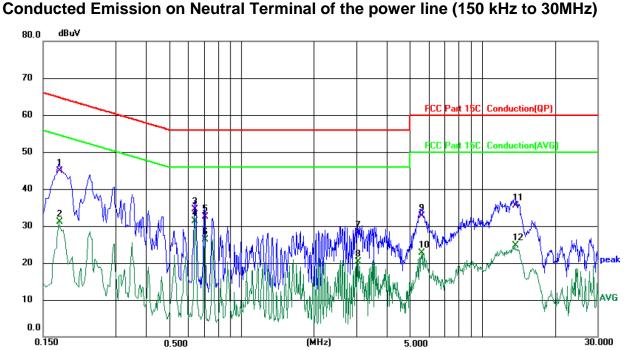
Lim	Limit: FCC Part 15C Conduction(QP)					Power:	DC 5 V(/	Adapter In	put AC 120 V/60 Hz)
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.6419	29.49	9.21	38.70	56.00	-17.30	QP	
2	*	0.6419	24.34	9.21	33.55	46.00	-12.45	AVG	
3		0.7580	25.87	9.23	35.10	56.00	-20.90	QP	
4		0.7580	21.39	9.23	30.62	46.00	-15.38	AVG	
5		3.3780	23.17	9.43	32.60	56.00	-23.40	QP	
6		3.3780	13.96	9.43	23.39	46.00	-22.61	AVG	
7		5.6500	26.90	9.50	36.40	60.00	-23.60	QP	
8		5.6500	14.96	9.50	24.46	50.00	-25.54	AVG	
9		11.6980	29.46	9.64	39.10	60.00	-20.90	QP	
10		11.6980	18.02	9.64	27.66	50.00	-22.34	AVG	
11		13.3940	31.05	9.65	40.70	60.00	-19.30	QP	
12		13.3940	19.67	9.65	29.32	50.00	-20.68	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.

Report No.: TCT210219E028



Site 844 Shielding Room

Phase: N

Limit: FCC Part 15C Conduction(QP)

Temperature: 25.9 (℃) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBu∨	dBu∨	dB	Detector	Comment
	0.1740	35.42	9.58	45.00	64.77	-19.77	QP	
	0.1740	21.55	9.58	31.13	54.77	-23.64	AVG	
	0.6419	25.41	9.19	34.60	56.00	-21.40	QP	
*	0.6419	22.07	9.19	31.26	46.00	-14.74	AVG	
	0.7019	23.42	9.18	32.60	56.00	-23.40	QP	
	0.7019	17.14	9.18	26.32	46.00	-19.68	AVG	
	3.0380	18.58	9.52	28.10	56.00	-27.90	QP	
	3.0380	10.71	9.52	20.23	46.00	-25.77	AVG	
	5.5660	23.13	9.57	32.70	60.00	-27.30	QP	
	5.5660	13.18	9.57	22.75	50.00	-27.25	AVG	
	13.6420	25.86	9.64	35.50	60.00	-24.50	QP	
	13.6420	15.01	9.64	24.65	50.00	-25.35	AVG	
		MHz 0.1740 0.419 * 0.6419 * 0.6419 0.7019 0.7019 3.0380 3.0380 5.5660 5.5660 13.6420	Mk. Freq. Level MHz dBuV 0.1740 35.42 0.1740 21.55 0.6419 25.41 * 0.6419 22.07 0.7019 23.42 0.7019 17.14 3.0380 18.58 3.0380 10.71 5.5660 23.13 5.5660 13.18 13.6420 25.86	Mk. Freq. Level Factor MHz dBuV dB 0.1740 35.42 9.58 0.1740 21.55 9.58 0.6419 25.41 9.19 * 0.6419 22.07 9.19 * 0.6419 23.42 9.18 0.7019 17.14 9.18 3.0380 18.58 9.52 3.0380 10.71 9.52 5.5660 23.13 9.57 5.5660 13.18 9.57 13.6420 25.86 9.64	Mk. Freq. Reading Level Correct Factor Measure- ment MHz dBuV dB dBuV 0.1740 35.42 9.58 45.00 0.1740 21.55 9.58 31.13 0.6419 25.41 9.19 34.60 * 0.6419 22.07 9.19 31.26 0.7019 23.42 9.18 32.60 0.7019 17.14 9.18 26.32 3.0380 18.58 9.52 28.10 3.0380 10.71 9.52 20.23 5.5660 23.13 9.57 32.70 5.5660 13.18 9.57 22.75 13.6420 25.86 9.64 35.50	Mk. Freq. Reading Level Correct Factor Measure- ment Limit MHz dBuV dB dBuV dBuV <t< td=""><td>Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV dBuV dB dBuV dB 0.1740 35.42 9.58 45.00 64.77 -19.77 0.1740 21.55 9.58 31.13 54.77 -23.64 0.6419 25.41 9.19 34.60 56.00 -21.40 * 0.6419 22.07 9.19 31.26 46.00 -14.74 0.7019 23.42 9.18 32.60 56.00 -23.40 0.7019 17.14 9.18 26.32 46.00 -19.68 3.0380 18.58 9.52 28.10 56.00 -27.90 3.0380 10.71 9.52 20.23 46.00 -25.77 5.5660 23.13 9.57 32.70 60.00 -27.30 5.5660 13.18 9.57 22.75 50.00 -27.25 13.6420 25.86<td>Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV dBuV dB Detector 0.1740 35.42 9.58 45.00 64.77 -19.77 QP 0.1740 21.55 9.58 31.13 54.77 -23.64 AVG 0.6419 25.41 9.19 34.60 56.00 -21.40 QP * 0.6419 22.07 9.19 31.26 46.00 -14.74 AVG 0.7019 23.42 9.18 32.60 56.00 -23.40 QP 0.7019 17.14 9.18 26.32 46.00 -19.68 AVG 0.7019 17.14 9.18 26.32 46.00 -27.90 QP 3.0380 10.71 9.52 20.23 46.00 -25.77 AVG 5.5660 23.13 9.57 32.70 60.00 -27.30 QP 5.5660</td></td></t<>	Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV dBuV dB dBuV dB 0.1740 35.42 9.58 45.00 64.77 -19.77 0.1740 21.55 9.58 31.13 54.77 -23.64 0.6419 25.41 9.19 34.60 56.00 -21.40 * 0.6419 22.07 9.19 31.26 46.00 -14.74 0.7019 23.42 9.18 32.60 56.00 -23.40 0.7019 17.14 9.18 26.32 46.00 -19.68 3.0380 18.58 9.52 28.10 56.00 -27.90 3.0380 10.71 9.52 20.23 46.00 -25.77 5.5660 23.13 9.57 32.70 60.00 -27.30 5.5660 13.18 9.57 22.75 50.00 -27.25 13.6420 25.86 <td>Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV dBuV dB Detector 0.1740 35.42 9.58 45.00 64.77 -19.77 QP 0.1740 21.55 9.58 31.13 54.77 -23.64 AVG 0.6419 25.41 9.19 34.60 56.00 -21.40 QP * 0.6419 22.07 9.19 31.26 46.00 -14.74 AVG 0.7019 23.42 9.18 32.60 56.00 -23.40 QP 0.7019 17.14 9.18 26.32 46.00 -19.68 AVG 0.7019 17.14 9.18 26.32 46.00 -27.90 QP 3.0380 10.71 9.52 20.23 46.00 -25.77 AVG 5.5660 23.13 9.57 32.70 60.00 -27.30 QP 5.5660</td>	Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV dBuV dB Detector 0.1740 35.42 9.58 45.00 64.77 -19.77 QP 0.1740 21.55 9.58 31.13 54.77 -23.64 AVG 0.6419 25.41 9.19 34.60 56.00 -21.40 QP * 0.6419 22.07 9.19 31.26 46.00 -14.74 AVG 0.7019 23.42 9.18 32.60 56.00 -23.40 QP 0.7019 17.14 9.18 26.32 46.00 -19.68 AVG 0.7019 17.14 9.18 26.32 46.00 -27.90 QP 3.0380 10.71 9.52 20.23 46.00 -25.77 AVG 5.5660 23.13 9.57 32.70 60.00 -27.30 QP 5.5660

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.

Report No.: TCT210219E028

Humidity: 57 %



5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.					
Test Setup:						
Test Mode:	Spectrum Analyzer EUT Transmitting mode with modulation Image: Comparison of the second sec					
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

$(C ^{\circ})$				
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:	 analyzer by RF was compensative measurement. 2. Set to the maxim EUT transmit construction 3. Use the following Bandwidth means Span = approximation bandwidth, cennet 1%≤RBW≤5% of Sweep = auto; hold. 	g spectrum analyzer settings for 20dB				
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 🕗

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

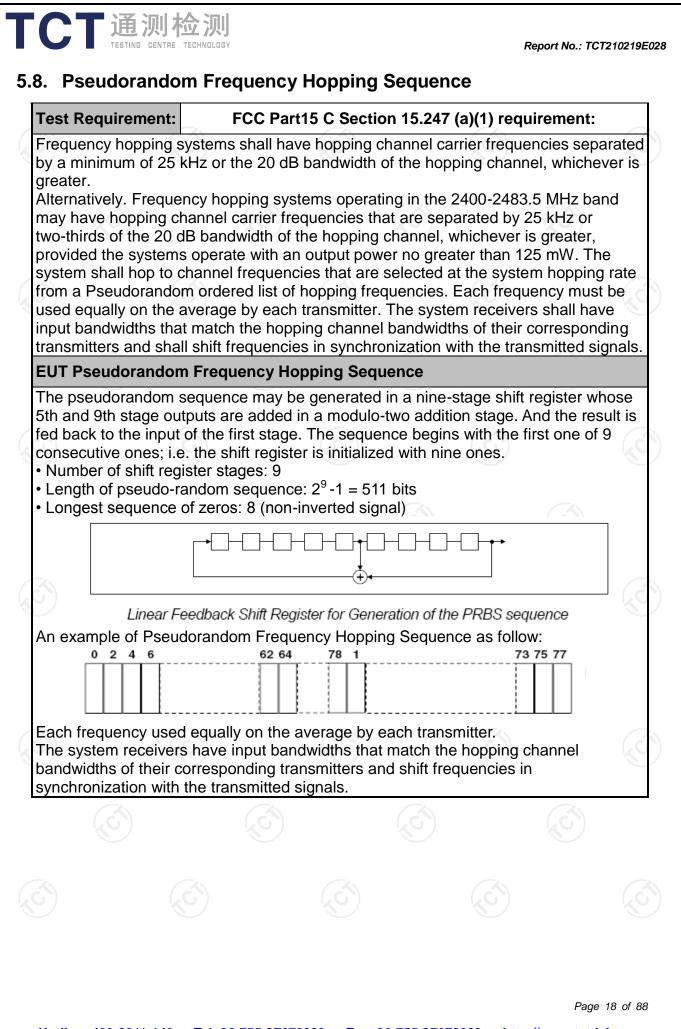
5.7. Dwell Time

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 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	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		



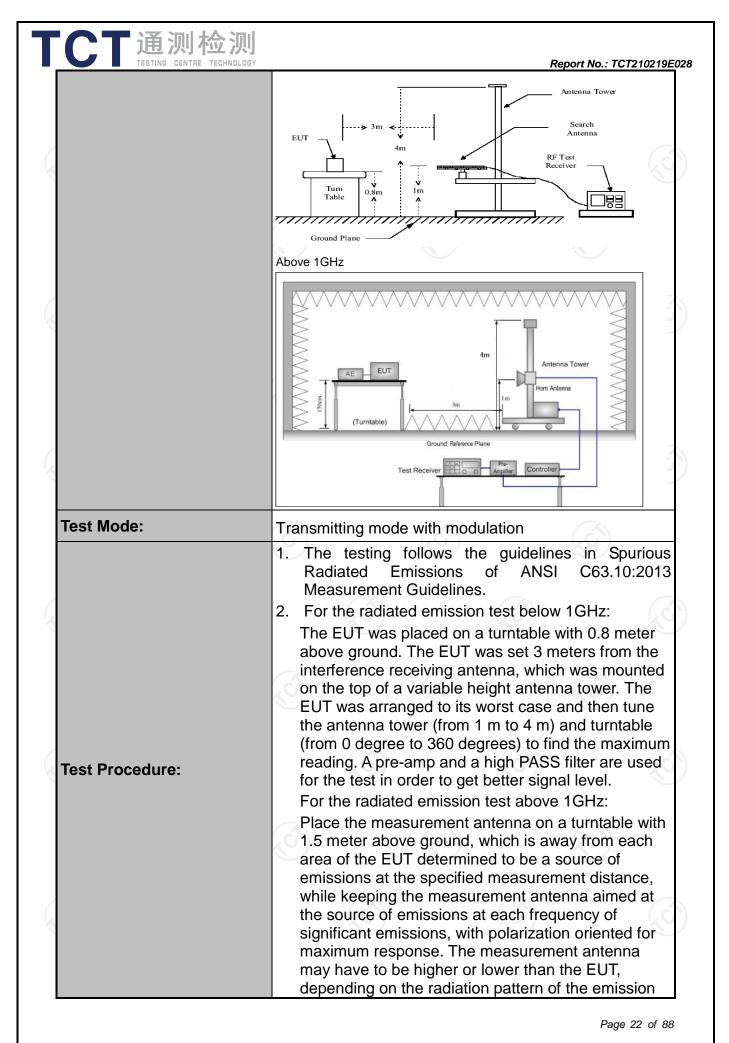




5.11.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FUC Partis	C Section	15.209			No.	
Test Method:	ANSI C63.10):2013					
Frequency Range:	9 kHz to 25 (GHz	3				
Measurement Distance:	3 m		9		R.)	
Antenna Polarization:	Horizontal &	Vertical					
	Frequency	Detector	RBW	RBW VBW Remark			
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi	-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	k 9kHz	30kHz	Quasi	-peak Value	
	30MHz-1GHz	Quasi-peak		300KHz		peak Value	
	Above 1GHz	Peak	1MHz	3MHz		ak Value	
		Peak	1MHz	10Hz	Aver	age Value	
	Frequen	ю	Field Str (microvolts	-		surement ce (meters)	
	0.009-0.4	1	2400/F(KHz)		300	
	0.490-1.7		24000/F	(KHz)		30	
	1.705-3		30			30	
	30-88	1	100		3		
Limit:	216-96		200		3		
	Above 9		500 3				
			ovolts/meter)	Distan (meter 3			
	Above 1GHz	z	5000	3		Peak	
Test setup:	For radiated emis	ssions below stance = 3m			Compute Amplifier		
			(,	C)			



	receiving measure maximiz antenna restricte above th 3. Set to t EUT tra 4. Use the (1) Spa emi (2) Set for (3) Fo co	ying aimed at the g the maximum s ement antenna el ces the emissions d elevation for ma d to a range of he ne ground or refe the maximum po ansmit continuous following spectru an shall wide eno ission being mea (RBW=120 kHz f f>1GHz ; VBW≥F weep = auto; Dete max hold for peal or average measu rrection factor me 35(c). Duty cycle	emission sourc signal. The final levation shall be s. The measurer eximum emission eights of from 1 rence ground pl wer setting and sly. um analyzer set ugh to fully capt sured; for f < 1 GHz, RI Sured; for f < 1 GHz, RI RBW; ector function = k urement: use dut ethod per = On time/100 r	e that which nent ns shall be m to 4 m ane. I enable the tings: ture the BW=1MHz peak; Trace ty cycle milliseconds
	On W ler Av Le Cor	time =N1*L1+N2 here N1 is number ogth of type 1 pul verage Emission I evel + 20*log(Duty crected Reading: 2 is + Read Level -	er of type 1 puls ses, etc. Level = Peak Er y cycle) Antenna Factor	es, L1 is mission + Cable
Test results:	On W ler Av Le Cor	here N1 is number ngth of type 1 pul verage Emission I evel + 20*log(Duty rrected Reading: .	er of type 1 puls ses, etc. Level = Peak Er y cycle) Antenna Factor	es, L1 is nission + Cable
Test results:	On W ler Av Le Cor Los	here N1 is number ngth of type 1 pul verage Emission I evel + 20*log(Duty rrected Reading: .	er of type 1 puls ses, etc. Level = Peak Er y cycle) Antenna Factor	es, L1 is nission + Cable
Test results:	On W ler Av Le Cor Los	here N1 is number ngth of type 1 pul verage Emission I evel + 20*log(Duty rrected Reading: .	er of type 1 puls ses, etc. Level = Peak Er y cycle) Antenna Factor	es, L1 is mission + Cable
Test results:	On W ler Av Le Cor Los	here N1 is number ngth of type 1 pul verage Emission I evel + 20*log(Duty rrected Reading: .	er of type 1 puls ses, etc. Level = Peak Er y cycle) Antenna Factor	es, L1 is mission + Cable



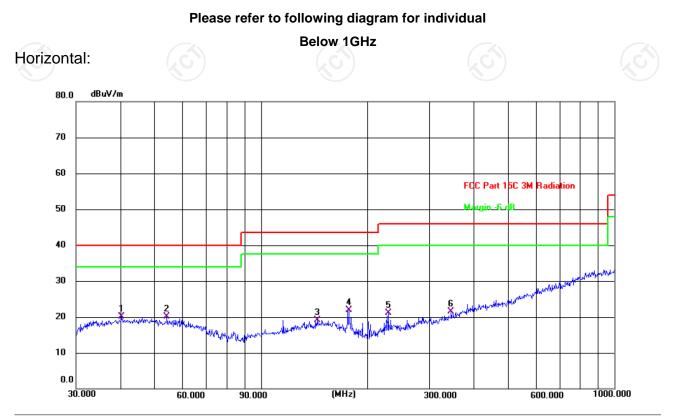
5.11.2. Test Instruments

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	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
)	



5.11.3. Test Data

TCT通测检测 TCT通测检测



2				Polariza	Polarization: Horizontal			Temperature: 24.3(C)
FCC Part 15C	3M Radia	tion		Power:	Power: DC 3.7 V			Humidity: 54 %
Frequency (MHz)	J				Detector P/F		Remark	
40.2754	6.18	14.00	20.18	40.00	-19.82	QP	Ρ	
54.2608	6.56	13.50	20.06	40.00	-19.94	QP	Ρ	
144.3346	5.78	13.28	19.06	43.50	-24.44	QP	Ρ	
177.5089	10.28	11.56	21.84	43.50	-21.66	QP	Ρ	
229.2930	9.08	12.06	21.14	46.00	-24.86	QP	Ρ	
345.5951	6.18	15.34	21.52	46.00	-24.48	QP	Ρ	
	CC Part 15C Frequency (MHz) 40.2754 54.2608 144.3346 177.5089 229.2930	Frequency (MHz) Reading (dBuV) 40.2754 6.18 54.2608 6.56 144.3346 5.78 177.5089 10.28 229.2930 9.08	FCC Part 15C 3M RadiationFrequency (MHz)Reading (dBuV)Factor (dB/m)40.27546.1814.0054.26086.5613.50144.33465.7813.28177.508910.2811.56229.29309.0812.06	CC Part 15C 3M RadiationFrequency (MHz)Reading (dBuV)Factor (dB/m)Level (dBuV/m)40.27546.1814.0020.1854.26086.5613.5020.06144.33465.7813.2819.06177.508910.2811.5621.84229.29309.0812.0621.14	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) 40.2754 6.18 14.00 20.18 40.00 54.2608 6.56 13.50 20.06 40.00 144.3346 5.78 13.28 19.06 43.50 177.5089 10.28 11.56 21.14 46.00	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) 40.2754 6.18 14.00 20.18 40.00 -19.82 54.2608 6.56 13.50 20.06 40.00 -19.94 144.3346 5.78 13.28 19.06 43.50 -24.44 177.5089 10.28 11.56 21.14 46.00 -24.86	Power: DC 3.7 V Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector 40.2754 6.18 14.00 20.18 40.00 -19.82 QP 54.2608 6.56 13.50 20.06 40.00 -19.94 QP 144.3346 5.78 13.28 19.06 43.50 -24.44 QP 177.5089 10.28 11.56 21.84 43.50 -21.66 QP 229.2930 9.08 12.06 21.14 46.00 -24.86 QP	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector P/F 40.2754 6.18 14.00 20.18 40.00 -19.82 QP P 54.2608 6.56 13.50 20.06 40.00 -19.94 QP P 144.3346 5.78 13.28 19.06 43.50 -24.44 QP P 177.5089 10.28 11.56 21.14 46.00 -24.86 QP P

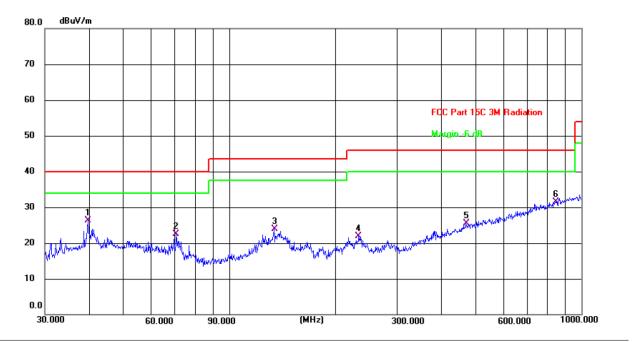
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Report No.: TCT210219E028

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Vertical:

TCT通测检测 TCT通测检测



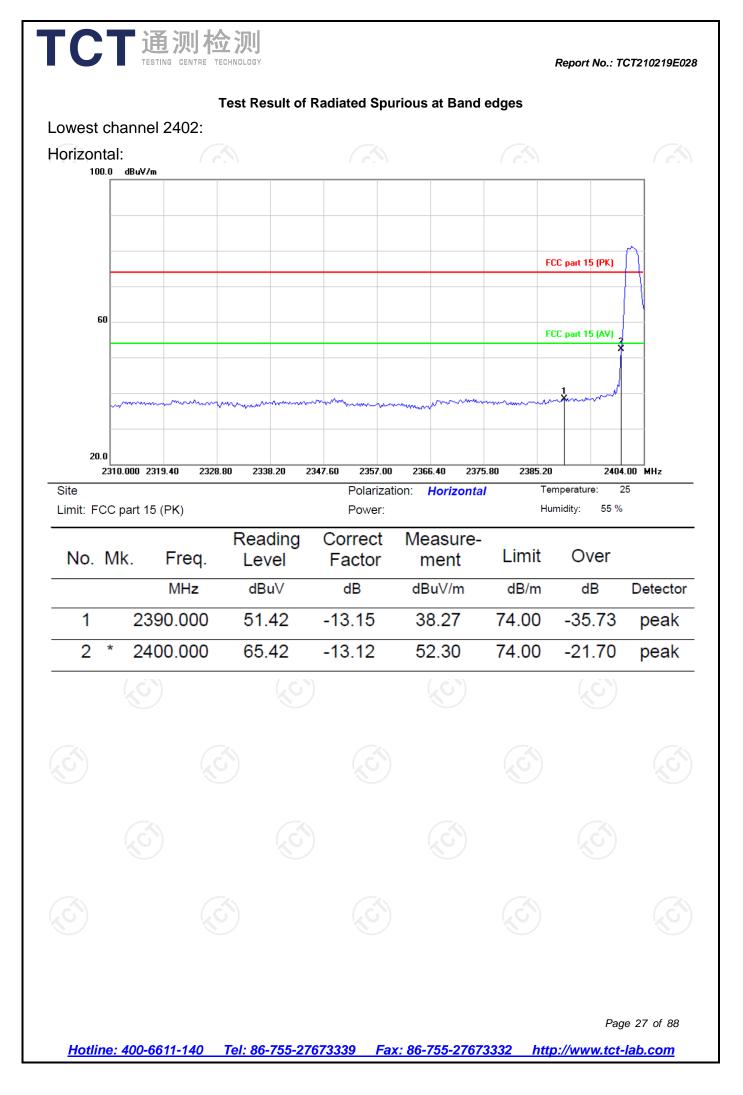
Site # Limit:	[≴] 2 FCC Part 150	C 3M Radia	tion			Polarization: Vertical Power: DC 3.7 V			Temperature: 24.3(C) Humidity: 54 %		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Factor Level Limit Margin Detector P		P/F	Remark				
1 *	39.7146	12.39	13.96	26.35	40.00	-13.65	QP	Р			
2	70.8315	11.64	10.95	22.59	40.00	-17.41	QP	Ρ			
3	134.0880	11.05	12.87	23.92	43.50	-19.58	QP	Р			
4	233.3486	9.64	12.34	21.98	46.00	-24.02	QP	Р			
5	470.5231	6.66	18.76	25.42	46.00	-20.58	QP	Ρ			
6	845.0877	5.84	25.70	31.54	46.00	-14.46	QP	Р			

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

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/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* (dBµV/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.: TCT210219E028



TC	; T			 	/								Re	eport No.:	TCT21	0219E028
Vertical	l:															
10	0.0 dB	luV/m														
													FCC	part 15 (PK)	Λ	
I	60															
	-												FCC	part 15 (AV)	+	
															2×	
	~~~~~	mm	www	munum		~~~~		- m				man	mini	ammont the		
									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
20																
Site	2310.00	10 2319.40	232	8.80 2	338.20	234		2357.00 Polariza		6.40 Vertic	2375. al	.80 238	5.20 Temp	24 erature:	04.00 M	IHz
Limit: F	CC pa	rt 15 (PK)	1				F	ower:					Humi	dity: 55	%	
		_			adinę	g	Corr			asu		Linci	+	Over		
No.	IVIK.		eq.		evel		Fac			nent		Limi		Over		
		M	Ηz	d	Bu∨		d	3	dB	uV/m	n	dB/n	n	dB	De	tector
1	:	2390.0	000	48	8.54		-13.	15	3	5.39		74.00)	-38.61	р	eak
2	*	2400.0	000	58	8.81		-13.	12	4	5.69		74.00)	-28.31	р	eak



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Report No.: TCT210219E028 Highest channel 2480: Horizontal: 100.0 dBuV/m FCC part 15 (PK) 60 FCC part 15 (AV) um mm 20.0 2486.10 2488.80 2505.00 MHz 2478.000 2480.70 2483.40 2491.50 2494.20 2496.90 2499.60 25 Site Polarization: Horizontal Temperature: 55 % Humidity: Limit: FCC part 15 (PK) Power: Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dBuV/m dB/m dB dB Detector 1 2483.500 74.00 * 55.19 -12.84 42.35 -31.65 peak



Q

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FCC part 15 (PK) 60 FCC part 15 (AV) manufind Manually 20.0 2478.000 2480.70 2483.40 2486.10 2488.80 2491.50 2494.20 2496.90 2499.60 2505.00 MHz Site Polarization: Temperature: 25 Vertical Humidity: 55 % Power: Limit: FCC part 15 (PK) Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dBuV dBuV/m dB/m dB MHz dB Detector * 2483.500 53.03 -12.84 40.19 74.00 -33.81 1 peak

Г

Vertical:

100.0

dBu∀/m

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

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2

Modulation Type: 8DPSK										
Low channel: 2402 MHz										
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4804	Н	43.94		0.66	44.60		74	54	-9.40
	7206	Н	34.12		9.50	43.62		74	54	-10.38
		Н								
	(<u> </u>		(, C)	`)		.C`)		(\mathcal{O})	
	4804	V	44.60		0.66	45.26		74	54	-8.74
	7206	V	35.25		9.50	44.75		74	54	-9.25
		V								

Middle cha	nnel: 2441	MHz))				K C
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	44.39		0.99	45.38		74	54	-8.62
7323	ζ ^O H)	34.71	1.0	9.87	44.58		74	54	-9.42
	Ĥ								
						-			
4882	V	41.58		0.99	42.57		74	54	-11.43
7323	V	34.03		9.87	43.90		74	54	-10.10
	V			X	J		×		

High channel: 2480 MHz

i ligit chatti	101.2400	/11.12							
Frequency	Ant Pol	Peak	AV	Correction	Emissio	on Level	Peak limit	AV/ limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV		(dBµV/m)	(dB)
()		(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	((()
4960	Н	43.46)	1.33	44.79		74	54	-9.21
7440	Н	36.85		10.22	47.07		74	54	-6.93
	Н								
GN)		(.G)		(.0			(.c.)		Ĵ.)
4960	V	46.29		1.33 🔪	47.62		74	54	-6.38
7440	V	36.64		10.22	46.86		74	54	-7.14
	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.

 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

	Max	ximum Conc	lucted Output F	Power	
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	2.863	30	Pass
NVNT	1-DH1	2441	2.471	30	Pass
NVNT	1-DH1	2480	1.788	30	Pass
NVNT	2-DH1	2402	2.877	21	Pass
NVNT	2-DH1	2441	2.471	21	Pass
NVNT	2-DH1	2480	1.781	21	Pass
NVNT	3-DH1	2402	2.921	21	Pass
NVNT	3-DH1	2441	2.508	21	Pass
NVNT	3-DH1	2480	1.814	21	Pass

Power NVNT 1-DH1 2402MHz



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LXI R	ctrum Analyzer - Swept SA RF 50 ລ AC Freq 2.441000000 GH	z		ALIGNAUTO Avg Type: Log-Pwr	05:07:40 PM Oct 13, 2021 TRACE 123456 TYPE M + + + + + + + + + + + + + + + + + +	
		PNO: Fast ↔ IFGain:Low	➡ Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200	r1 2.441 048 GHz	
10 dB/div Log	Ref Offset 7.06 dB Ref 20.00 dBm				2.471 dBm	
10.0			1			
0.00						
-10.0						
-20.0						
-30.0						
-40.0						
-50.0						
-60.0						
-70.0						
	2.441000 GHz				Span 6.000 MHz 100.0 ms (1001 pts)	
#Res B	W 2.0 MHz	#\	/BW 6.0 MHz	#Sweep	100.0 ms (1001 pts)	
		Power N	VNT 1-DH1 :	2480MHz	((
LXI R	ectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.480000000 GH	z	SENSE:PULSE	ALIGNAUTO	05:09:14 PM Oct 13, 2021 TRACE 1 2:3 4 5:6 TYPE MANNANN DET P N N N N N	
		PNO: Fast ↔ IFGain:Low	→ Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200 Mkr1	2.479 935 2 GHz	
10 dB/div Log	Ref Offset 7.03 dB Ref 20.00 dBm				1.788 dBm	
10.0						
0.00						
-10.0						
-20.0						
-30.0						
-40.0						
-50.0						
-60.0						
-70.0						
Center : #Res Bl	2.480000 GHz № 2.0 MHz	#\	/BW 6.0 MHz	#Sween	Span 6.000 MHz 100.0 ms (10001 pts)	
MSG	N 240 WH2		IBW CROEWINZ	status		

	nt Spectrum Analyzer - Swept SA RF 50 Q AC nter Freq 2.402000000 GH	Z PNO: Fast ++- Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 200/200	05:30:21 PM Oct 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	
10 g	Ref Offset 6.98 dB B/div Ref 20.00 dBm		IVIK	2.402 000 GHz 2.877 dBm	
10.0		1			
0.00					
-10.0					
-20.0				 	
-30.0					
-40.0					
-50.0					
-70.0					
Co	nter 2.402000 GHz			Span 6.000 MHz	
	es BW 2.0 MHz	#VBW 6.0 MHz	Sweep	1.000 ms (1001 pts)	
5) 📕		Power NVNT 2-DH1	2441MHz	`)	
LXI F	nt Spectrum Analyzer - Swept SA	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr	05:32:06 PM Oct 13, 2021 TRACE 123456	
		PNO: Fast 🔸 Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 200/200	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN 2.441 078 GHz	
10 c Log	Ref Offset 7.06 dB B/div Ref 20.00 dBm			2.471 dBm	
10.0		_ 1			
0.00					
-10.0				and the second s	
-20.0					
-30.0					
-40.0					
-60.0					
-70.0					
Cer	nter 2.441000 GHz			Span 6.000 MHz	
#Re MSG	es BW 2.0 MHz	#VBW 6.0 MHz	Sweep status	1.000 ms (1001 pts)	
No.	9			S	

<mark>Agilent</mark> : LX / R	も か が も か の た の の の の の の の の の の の の の の の の の	Power NVNT 2-DH1	2480MHz	Report No.: TC	T210219E02
	er Freq 2.480000000 GH		Avg Type: Log-Pwr Avg Hold: 200/200	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
10 dB/ Log _	Ref Offset 7.03 dB div Ref 20.00 dBm		Mkr	1 2.479 964 GHz 1.781 dBm	
10.0					
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-10.0					
-20.0	- Marine			Monor Road and and	
-30.0					
-40.0					
-50.0 —					
-60.0					
-70.0					
#Res	r 2.480000 GHz BW 2.0 MHz	#VBW 6.0 MHz		Span 6.000 MHz 1.000 ms (1001 pts)	
MSG	(₂ C)	Power NVNT 3-DH1	2402MHz		
LXI R	opectrum Analyzer - Swept SA RF 50Ω AC Pr Freq 2.402000000 GH	Z	ALIGNAUTO	01:46:51PM Oct 14, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW	
		PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Held: 200/200	TYPE MWWWWW DET P N N N N N 1 2.401 988 GHz	
10 dВ/ ^{Log} Г	Ref Offset 6.98 dB div Ref 20.00 dBm			2.921 dBm	
10.0 —		1			
0.00 -					
-10.0				and the second sec	
-20.0 🛩					
-30.0 -					
-50.0					
-60.0 —					
-70.0					
Cente	r 2.402000 GHz			Span 6.000 MHz	
#Res	BW 2.0 MHz	#VBW 6.0 MHz	Sweep Status	1.000 ms (1001 pts)	
C					

lxi r	ectrum Analyzer - Swept SA RF 50Ω AC r Freq 2.441000000 GH:	Power NVNT 3-DH1	ALIGNAUTO Avg Type: Log-Pwr AvgJHold: 200/200	01:53:25 PM Oct 14, 2021 TRACE 02:34 5 6 TYPE MWAAAAAA DET P NIN NIN	
		PNO: Fast ↔ Trig: Free Run IFGain:Low #Atten: 30 dB		2.440 940 GHz	
10 dB/d Log	Ref Offset 7.06 dB iv Ref 20.00 dBm			2.508 dBm	
10.0					
0.00					
-10.0					
-20.0 Jun					
-30.0					
-40.0					
-50.0					
-60.0					
-70.0					
Conto	2.441000 GHz			Span 6.000 MHz	
	2.441000 GH2 SW 2.0 MHz	#VBW 6.0 MHz	Sweep	1.000 ms (1001 pts)	
		Power NVNT 3-DH1)	
LXI R	RF 50 Ω AC RF 50 Ω AC Freq 2.480000000 GH:	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr	01:51:16 PM Oct 14, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P N N N N N	
		PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 200/200	2.480 072 GHz	
10 dB/d Log	Ref Offset 7.03 dB iv Ref 20.00 dBm			1.814 dBm	
10.0					
0.00		↓ ¹			
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-20.0	Source and the second			and and a second and a second	
-30.0					
-40.0					
-50.0					
-60.0					
-70.0					
#Res I	2.480000 GHz BW 2.0 MHz	#VBW 6.0 MHz		Span 6.000 MHz 1.000 ms (1001 pts)	
MSG	7		STATUS		
Ċ					
Ì					

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict					
NVNT	1-DH1	2402	0.928	Pass					
NVNT	1-DH1	2441	0.927	Pass					
NVNT	1-DH1	2480	0.926	Pass					
NVNT	2-DH1	2402	1.225	Pass					
NVNT	2-DH1	2441	1.227	Pass					
NVNT	2-DH1	2480	1.226	Pass					
NVNT	3-DH1	2402	1.224	Pass					
NVNT	3-DH1	2441	1.221	Pass					
NVNT	3-DH1	2480	1.222	Pass					

-20dB Bandwidth

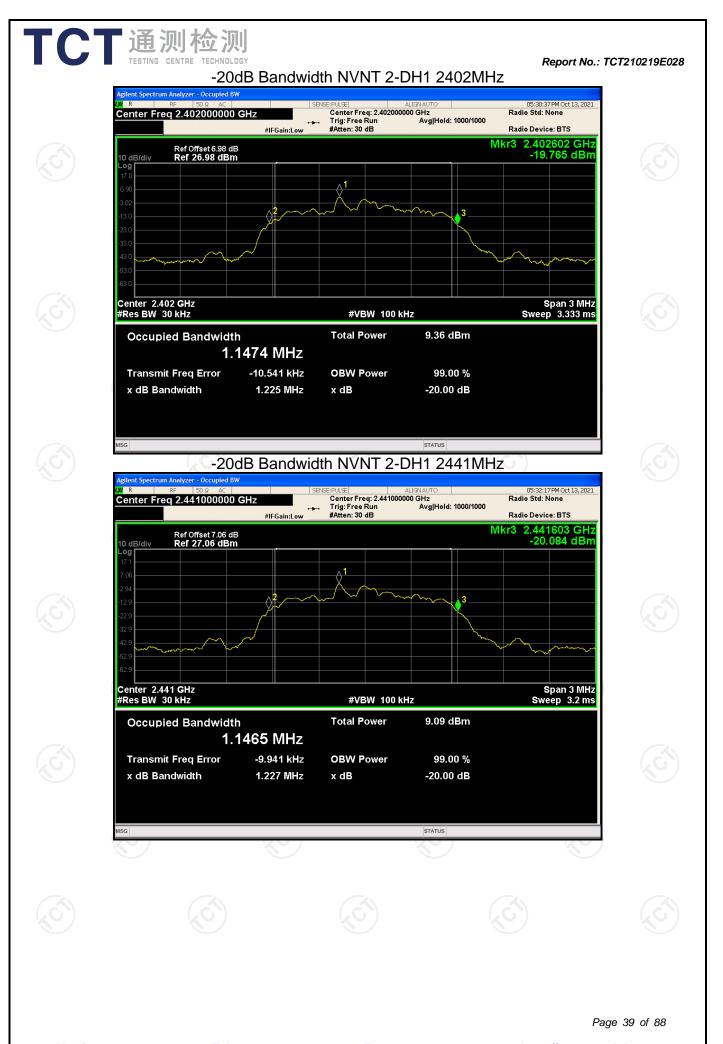
-20dB Bandwidth NVNT 1-DH1 2402MHz

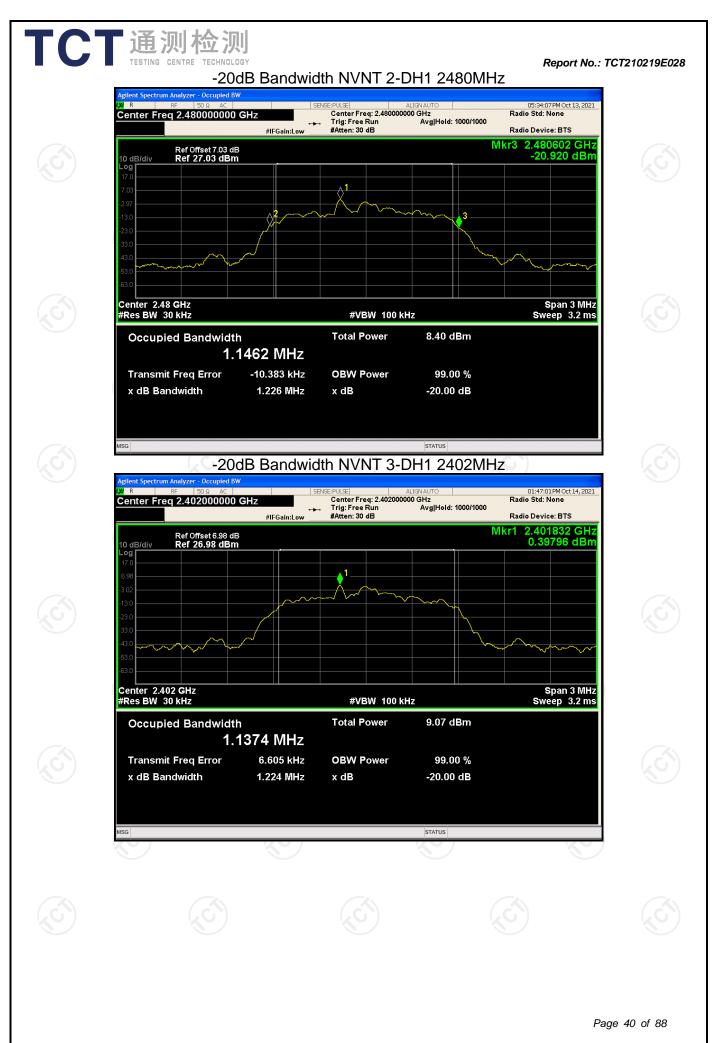


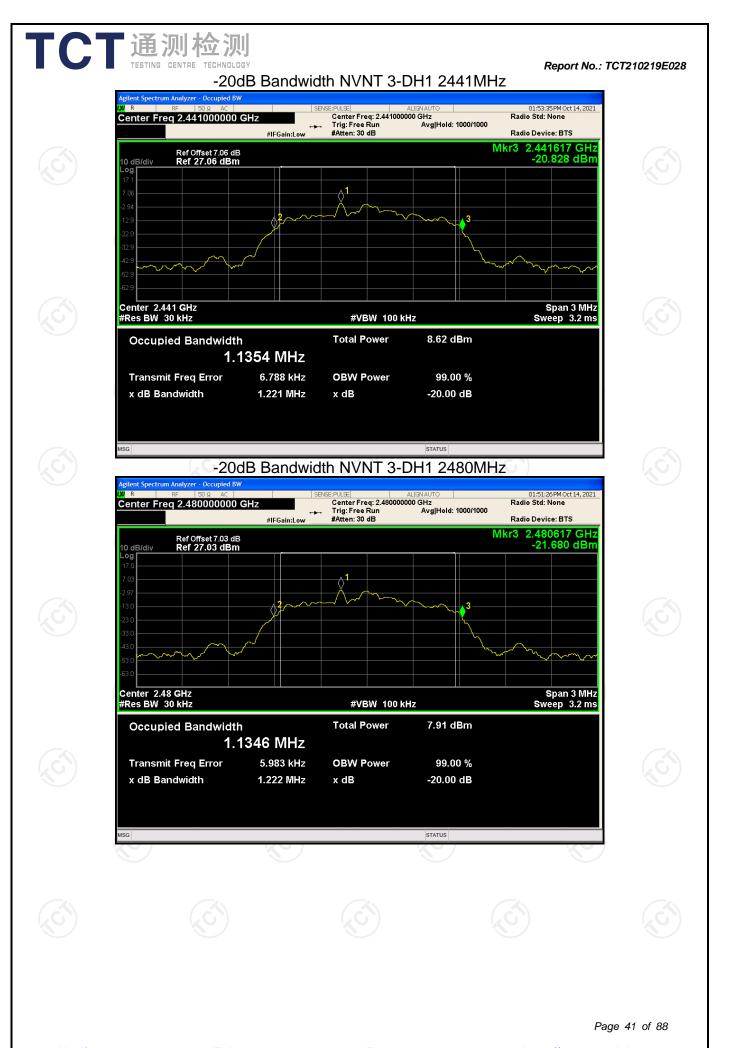
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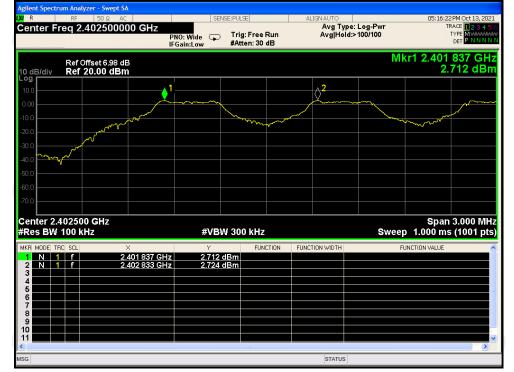


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Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
Condition	Mode	(MHz)	(MHz)	(MHz)	(MHz)	verdict
NVNT	1-DH1	2401.837	2402.833	0.996	0.928	Pass
NVNT	1-DH1	2440.831	2441.842	1.011	0.928	Pass
NVNT	1-DH1	2478.837	2479.83	0.993	0.928	Pass
NVNT	2-DH1	2401.834	2403.025	1.191	0.818	Pass
NVNT	2-DH1	2440.831	2441.833	1.002	0.818	Pass
NVNT	2-DH1	2478.831	2479.836	1.005	0.818	Pass
NVNT	3-DH1	2401.834	2402.833	0.999	0.816	Pass
NVNT	3-DH1	2440.828	2441.842	1.014	0.816	Pass
NVNT	3-DH1	2478.843	2479.815	0.972	0.816	Pass

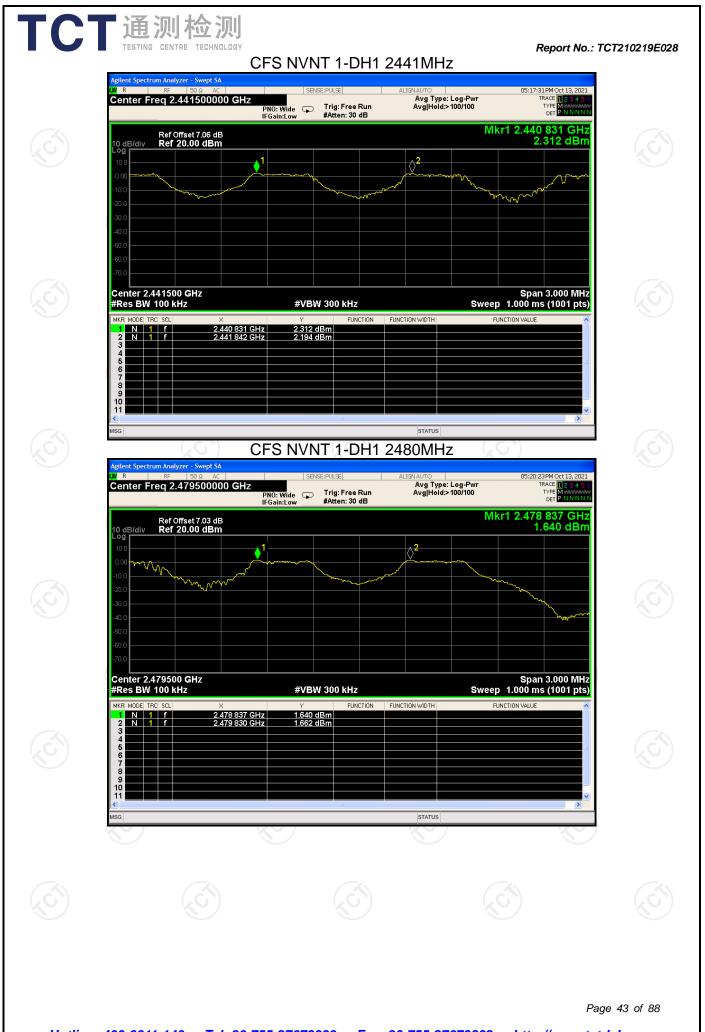
Carrier Frequencies Separation

TCT通测检测 TECT通测检测

CFS NVNT 1-DH1 2402MHz



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Ce	R RF 50Ω AC enter Freq 2.402500000 GHz P F	NO: Wide Trig: Free Run Gain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	05:36:13 PM Oct 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	
10	Ref Offset 6.98 dB dB/div Ref 20.00 dBm 9			1 2.401 834 GHz 2.784 dBm	
10 0.1 -10	00 manna	m m m m m m m m m m m m m m m m m m m	MMM Manny	mmmmmmm	
-20 -30					
-40 -50 -60					
-70				Span 3.000 MHz	
	Res BW 100 kHz		-	1.000 ms (1001 pts)	
		2.784 dBm 2.009 dBm			
6 7 8 9					
10 11 <				>	
MSG	CF	S NVNT 2-DH1 2	2441MHz)	
LXI	enter Freq 2.441500000 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	05:37:35 PM Oct 13, 2021 TRACE 1 2 3 4 5 6 TYPE MUMM DET P N N N N	
10	Ref Offset 7.06 dB dB/div Ref 20.00 dBm	Gain:Low #Atten: 30 dB	Mkr	1 2.440 831 GHz 2.341 dBm	
Lo 10 0.	9 .0		2		
-10 -20		hour hours			
-30 -40 -50	.0				
-60 -70					
#R	enter 2.441500 GHz Res BW 100 kHz	#VBW 300 kHz		Span 3.000 MHz 1.000 ms (1001 pts)	
	R MODE TRC SCL X N 1 f 2.440 831 GHz N 1 f 2.441 833 GHz 3 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Y FUNCTION 2.341 dBm 2.366 dBm	FUNCTION WIDTH FUNC	TION VALUE	
9 9 10 11				×	
MSG	<u> </u>		STATUS		

Center Freq 2.479500000 GHz	PNO: Wide IFGain:Low	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	05:42:43 PM Oct 13, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
Ref Offset 7.03 dB 10 dB/div Ref 20.00 dBm			1 2.478 831 GHz 1.711 dBm	
10.0 0.00 -10.0	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
-20.0			- May -	
-40.0				
-70.0 Center 2.479500 GHz			Span 3.000 MHz	
#Res BW 100 kHz			1.000 ms (1001 pts)	
1 N 1 f 2.478 831 GH 2 N 1 f 2.479 836 GH 3 4	Iz 1.711 dBm Iz 1.612 dBm			
5 6 7 8 9				
			×	
MSG (20) C	FS NVNT 3-DH1	status 2402MHz	5)	
Agilent Spectrum Analyzer - Swept SA M RF S0 Ω AC AC	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	01:56:05 PM Oct 14, 2021 TRACE 123456 TYPE MWWWWW	
Ref Offset 6.98 dB	PNO: Wide Frig: Free Run IFGain:Low #Atten: 30 dB		1 2.401 834 GHz 2.593 dBm	
10 dB/div Ref 20.00 dBm	1	2		
0.00 -10.0 -20.0		manyway	Martin Martin	
-30.0				
-60.0				
Center 2.402500 GHz #Res BW 100 kHz	#VBW 300 kHz	Sweep	Span 3.000 MHz 1.000 ms (1001 pts)	
MKR MODE TRC SCL X 1 N 1 f 2.401 834 GH 2 N 1 f 2.402 833 GH	Y FUNCTION Iz 2.593 dBm Iz 2.552 dBm		ICTION VALUE	
3 4 5 6				
7 8 9 10				
MSG	ш	STATUS		

Ce	RF 50 Ω AC nter Freq 2.441500000 GHz	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	01:57:16 PM Oct 14, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
10 Log	Ref Offset 7.06 dB dB/div Ref 20.00 dBm			2.440 828 GHz 2.105 dBm	
10 0.0 -10		1	2 Arrow Arro	m	
-20.					
-40. -50. -60.	·				
-70.				Span 3.000 MHz	
#R	es BW 100 kHz	#VBW 300 kHz		1.000 ms (1001 pts)	
2 3 4	N 1 f 2.440 828 G N 1 f 2.441 842 G	Hz 2.105 dBm Hz 2.102 dBm			
5 6 7 8 9					
10 11				×	
MSG	(₂ G*) (CFS NVNT 3-DH1	2480MHz		
LXI	nt Spectrum Analyzer - Swept SA RF 50 Ω AC nter Freq 2.479500000 GHz	PNO: Wide	ALIGNAUTO Avg Type: Log-Pwr Avg Hold≫100/100	02:01:41PM Oct 14, 2021 TRACE 12 3 4 5 6 TYPE MWWWWW	
	Ref Offset 7.03 dB div Ref 20.00 dBm	PNO: Wide 😱 Trig: Free Run IFGain:Low #Atten: 30 dB		L 2.478 843 GHz 1.421 dBm	
Lo <u>:</u> 10		<u>م</u> ا	2	1.421 UBII	
0.0 -10, -20,		m Marine Ma	m m m m m m m m m m m m m m m m m m m	M	
-30. -40.)				
-50. -60. -70.)				
Ce	nter 2.479500 GHz es BW 100 kHz	#VBW 300 kHz	Sweep	Span 3.000 MHz 1.000 ms (1001 pts)	
MKF	MODE TRC SCL X N 1 f 2.478 843 G	Y FUNCTION		TION VALUE	
3 4 5 6					
7 8 9 10					
11 MSG		Li I	STATUS	× •	
S.				K)	



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

Number of Hopping Channel

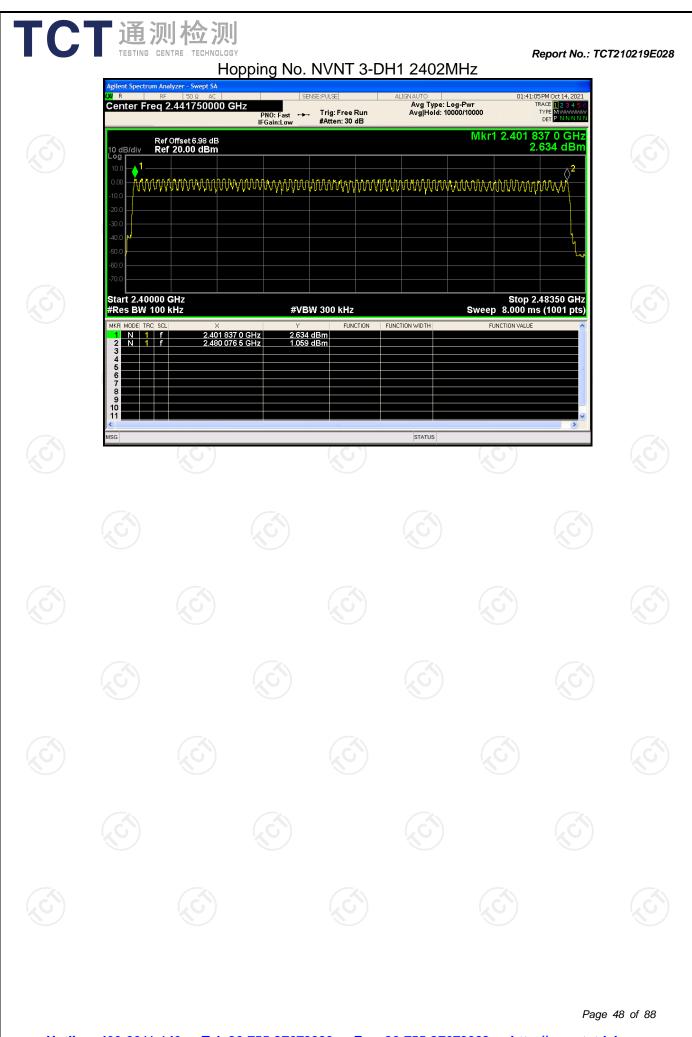
Hopping No. NVNT 1-DH1 2402MHz

enter Freq 2.441750000	PNC	0:Fast ↔→ ain:Low	ISE:PULSE Trig: Free F #Atten: 30 o	Run	IGNAUTO Avg Type: I Avg Hold: 4		TYPE	12345 MWWW PNNN
Ref Offset 6.98 dB 0 dB/div Ref 20.00 dBm						Mkr	2.402 004 2.561	
	ADAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMWU VIAMUU VI		WWW		<u>VIIIIIIIII</u>	MMM		2
tart 2.40000 GHz Res BW 100 kHz		#VBV	N 300 kHz			Sweep	Stop 2.483 8.000 ms (10	50 GI 101 pt
	004 0 GHz 909 5 GHz	Y 2.561 0.963		TION FUNC	TION WIDTH	FL	INCTION VALUE	>

Hopping No. NVNT 2-DH1 2402MHz

		lyzer - Swept SA								
R enter F	_R ⊧ req 2.	50 Ω AC .44175000)0 GHz	SE PNO: Fast Gain:Low	NSE:PULSE	ree Run : 30 dB	ALIGNAUTO Avg Ty Avg Ho	ype: Log-Pwr old: 3000/3000	TF	5PM Oct 13, 20 RACE 1 2 3 4 TYPE M DET P N N N
) dB/div		Offset 6.98 dB 20.00 dBm						Mkr	1 2.401 5 -5.	03 0 GI 063 dB
	1. AM	1mg MUG	MAMond	MMM	Whenly	Mun	MW4 MM4	aly Mulle	Www.h.MV	2 Munh M
).0).0										
3.0 / 3.0 / 3.0 /										
tart 2.40										48350 G
Res BW					W 300 k				p 8.000 ms	: (1001 p
KR MODE TF 1 N 1 2 N 1 3 4 5 5	f		< 11 503 0 GHz 20 160 0 GHz	-5.063 1.111		FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
6 7										
9										
					Ш					

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TC1		则检测 ENTRE TECHNOLOGY			Re	eport No.: TCT	210219E028
			Dwell	Time			
Condition	Mode	Frequency	Pulse	Total Dwell	Period	Limit	Verdict
Condition	Mode	(MHz)	Time (ms)	Time (ms)	Time (ms)	(ms)	veruici
NVNT	1-DH1	2402	0.375	120	31600	400	Pass
NVNT	1-DH3	2402	1.632	261.12	31600	400	Pass
NVNT	1-DH5	2402	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2402	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2402	1.633	261.28	31600	400	Pass

2.881

0.381

1.632

2.884

NVNT

NVNT

NVNT

NVNT

2-DH5

3-DH1

3-DH3

3-DH5

2402

2402

2402

2402

Dwell NVNT 1-DH1 2402MHz

307.307

121.92

261.12

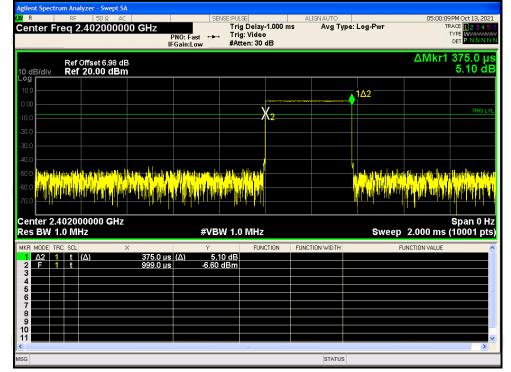
307.627

31600

31600

31600

31600



400

400

400

400

Pass

Pass

Pass

Pass

LXI	ent Spectrum Analyzer - Swept SA R RF 50 Ω AC nter Freq 2.402000000	GHz PNO: Fast +++	Trig Delay-1.000 ms Trig: Video	ALIGNAUTO Avg Type: Log-F	05:20:51 PM O WI TRACE TYPE	t 13,2021 2 3 4 5 6 MMMMMM N N N N N
10	Ref Offset 6.98 dB dB/div Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB		ΔMkr1 1.6	
Lo.	0	X ₂			1 Δ2	
-10 -20 -30	0	<u>^2</u>				
-40 -40 -60 -70	o • Mara Na baada ay katala ay katala ay katala • <mark>Mara ay mana da ay katala da ay ana da ay katala da</mark>	1919 1919			nt nam 11 Ann	envir aller 1 ferholfer
	nter 2.402000000 GHz s BW 1.0 MHz	#VB1	N 1.0 MHz		Spa Sweep 3.000 ms (100	in 0 Hz 01 pts)
		Υ 1.632 ms (Δ) - 0.5 999.6 μs - 5.82	8 dB		FUNCTION VALUE	
MSG		Durall NIV/				
LXI	ent Spectrum Analyzer - Swept SA R RF 50 Ω AC	SEM		ALIGNAUTO	05:21:25 PM 00	t 13, 2021
Ce	nter Freq 2.402000000	GHZ PNO: Fast ↔→ IFGain:Low	Trig Delay-1.000 ms Trig: Video #Atten: 30 dB	Avg Type: Log-F	ΔMkr1 2.8	23456
10 Log					4.	36 dB 1Δ2
0.0 -10 -20 -30 -40 -50 -50	o o o o o o o o o	X ₂				
-70 Ce	nter 2.402000000 GHz	'¶			Spa	in 0 Hz
MK	S BW 1.0 MHz MODE TRC SCL Χ Δ2 1 t (Δ)	2.880 ms (Δ) 4.3	6 dB	UNCTION WIDTH	FUNCTION VALUE	01 pts)
2 3 4 5 6		999.2 µs -7.02				
7 8 9 10						
11 MSG			E Constantino de la constant	STATUS		
No.	\mathcal{I}					

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LX1	jlent Spectrum Analyzer - Swept SA R RF 50 Ω AC enter Freq 2.402000000 GH	Z Trig Delay-1.000 ms PNO: Fast ↔ Trig: Video	IGNAUTO 05:22:35 PM Oct 13, 20 Avg Type: Log-Pwr TRACE 23 a TYPE WINN OFF P NNN	21
	Ref Offset 6.98 dB 0 dB/div Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IFGain:Low #Atten: 30 dB	ΔMkr1 381.0 μ -3.43 d	B B
3) R	0.0	#VBW 1.0 MHz	Span 0 H Sweep 2.000 ms (10001 pr	Hz s)
Ś	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.0 μs (Δ) -3.43 dB 1.0 μs -5.34 dBm		
2 2 1		Z Trig Delay-1.000 ms PN0: Fast ↔ Trig: Video IFGain:Low #Atten: 30 dB	IGNAUTO 05:43:02 PM Oct 13, 20 Avg Type: Log-Pwr TRACE 12 34 TYPE WWWW Det P NNN AMkr1 1.633 rr -1.03 d	5 6 WW N N
3	enter 2.402000000 GHz es BW 1.0 MHz		Sweep 3.000 ms (10001 pt	
3	KR MODE TRC Scl. X 1 $\Delta 2$ 1 t (Δ) 1,63 2 F 1 t 995 3 - - 995 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - - 1 - - -		ION WIDTH FUNCTION VALUE	

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TC ⁻	T通测检测 TESTING CENTRE TECHNOLOGY Report No.: TO Dwell NVNT 2-DH5 2402MHz	T210219E028
	Agilent Spectrum Analyzer - Swept SA XR RF 50 Ω AC SENSE:PULSE ALIGNAUTO 05:47:05 PM Oct 13, 2021 Center Freq 2.402000000 GHz Trig Delay-1.000 ms Avg Type: Log-Pwr TRACE 12:3 4 5 6 Trig: Video Trig: Video BANG DEF PNN NYN	
	Ref Offset 6.98 dB ΔMkr1 2.881 ms 10 dB/div Ref 20.00 dBm -1.20 dB 10 o -1.20 dB -1.20 dB 20 o -1.20 dB -1.20 dB -0.00 dB -1.20 dB -1.20 dB -0.00 dB -1.20 dB -1.20 dB -0.00 dB -1.20 dB -1.20 dB	
	Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz #VBW 1.0 MHz Span 0 Hz Sweep 4.000 ms (10001 pts) MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 Δ2 1 t (Δ) -1.20 dB FUNCTION FUNCTION VALUE 3 F 1 t 999.2 μs -5.00 dBm	
	Agilent Spectrum Analyzer - Swept SA DW R RF 150 Ω AC SENSE:PULSE ALIGN AUTO 01:38:25 PM Oct 14, 2021 Center Freq 2.402000000 GHz PN0: Fast IFGain:Low Trig: Video #Atten: 30 dB Content of the sense of the sen	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
	Center 2.40200000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (10001 pts) MKR MODE TRC SCL × Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 Δ2 1 t (Δ) 33 dB -7.11 dBm - 3 - - - - - - - 3 - - - - - - - - 3 - </td <td></td>	

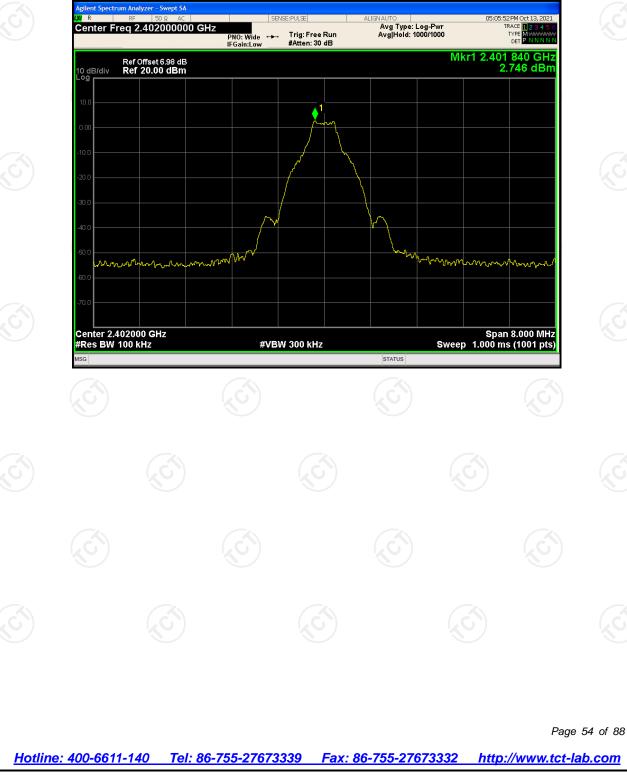
Agilent Spectrum Analyzer - Swept SA		AUTO 02:02:31 PM Oct 14, 2021	
Ref Offset 6.98 dB 10 dB/div Ref 20.00 dBm Log	PN0: Fast Trig: Video IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr TRACE 0.23 ± 5 6 TYPE ΔMkr1 1.632 ms -2.74 dB ΔΜκr1 1.632 ms -2.74 dB ΤΡΟ LVL	
-50.0 -50.0 -50.0 -70.0 Center 2.402000000 GHz Res BW 1.0 MHz MKR MODE TRC SCL ×	#VBW 1.0 MHz	Span 0 Hz Sweep 3.000 ms (10001 pts)	
1 Δ2 1 t (Δ) 1. 2 F 1 t 9 3 I t 9 4 I 1 1 6 I I 1 7 I I I 8 I I I 9 I I I 10 I I I MSG I I I MSG I I I Center Freg 2.402000000 G G I	Dwell NVNT 3-DH5 240	STATUS STATUS 2MHz AUTO 02:02:48PM Oct 14, 2021 AVTO 02:02:48PM Oct 14, 2021 AVTO 02:02:48PM Oct 14, 2021 TRACE 12:2345 6 TYPE 12:2345 6	Ś
Ref Offset 6.98 dB Log Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 000	PNO: Fast IFGain:Low #Atten: 30 dB	ΔMkr1 2.884 ms -6.76 dB	
Center 2.402000000 GHz Res BW 1.0 MHz MKR MODE TRC SCL × 1 02 1 t (0) 2. 2 F 1 t 9 3 F 1 t 9 4 F 1 5 F 1 t 9 5 F 1 5	#VBW 1.0 MHz 884 ms (Δ) -6.76 dB 99.6 µs -6.20 dBm 	Span 0 Hz Sweep 4.000 ms (10001 pts)	

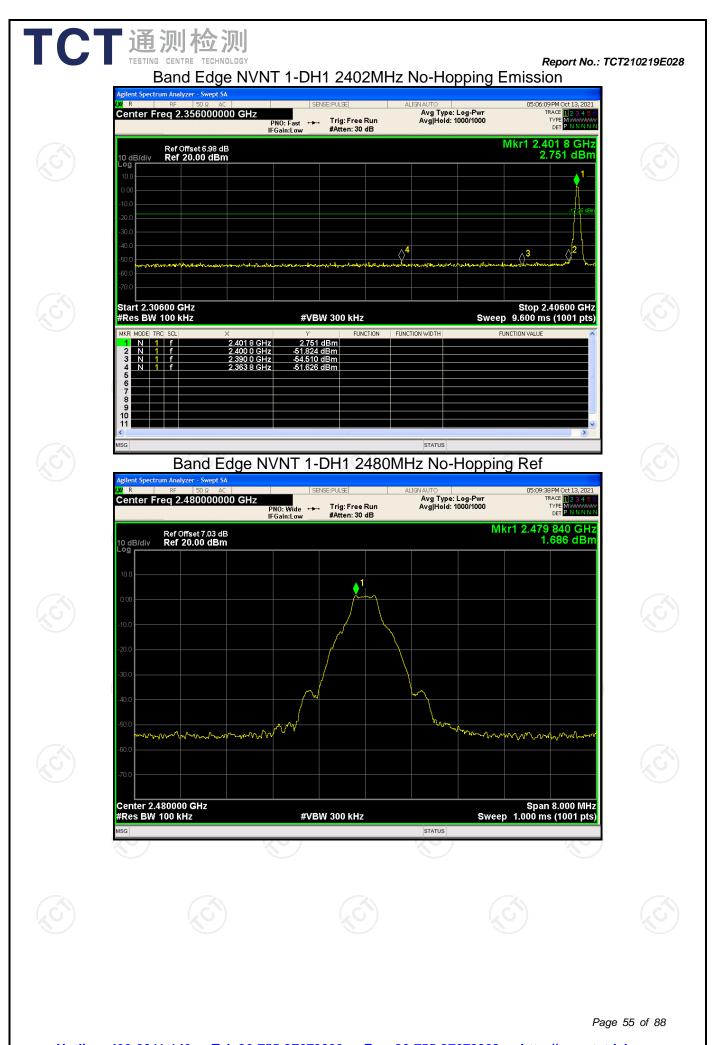
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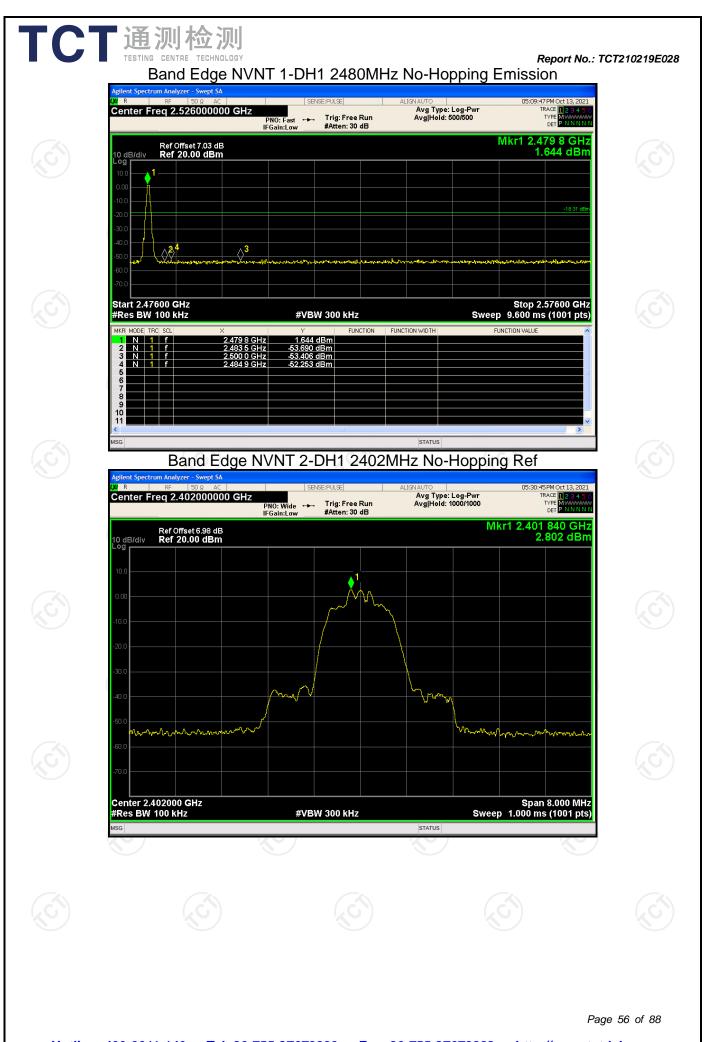
			Band Edge			
Condition	Mode	Frequency	Hopping	pping Max Value Lim		Verdict
		(MHz)	Mode	(dBc)	(dBc)	veruici
NVNT	1-DH1	2402	No-Hopping	-54.37	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-53.94	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-54.96	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-53.65	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-53.74	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-54.81	-20	Pass

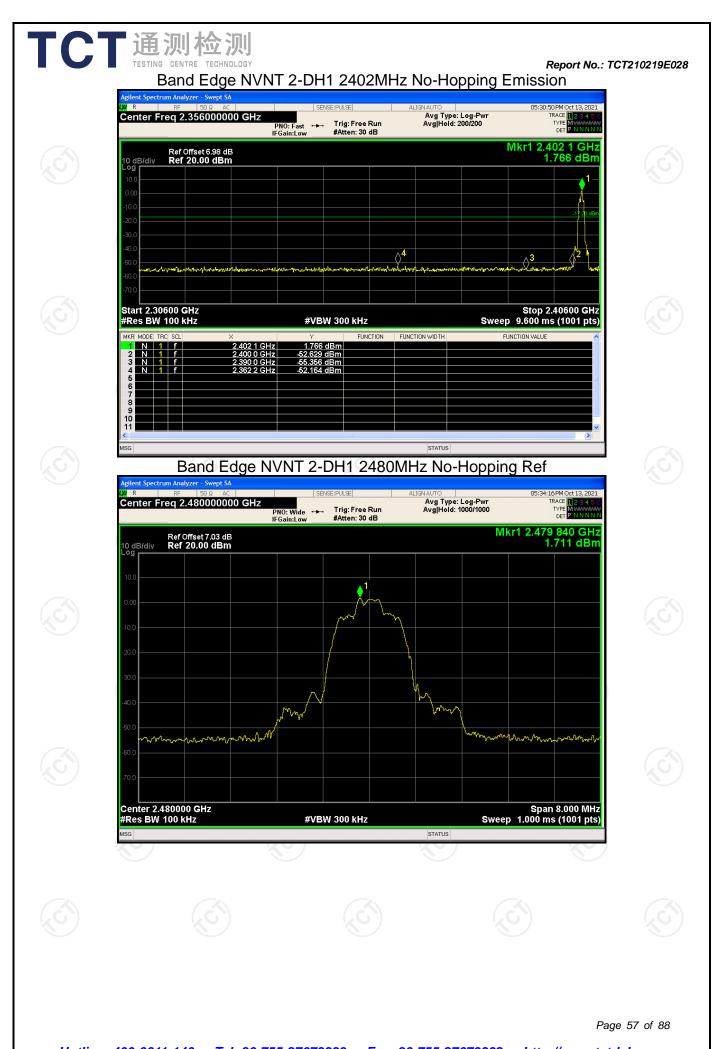
TCT 通测检测 TESTING CENTRE TECHNOLOGY

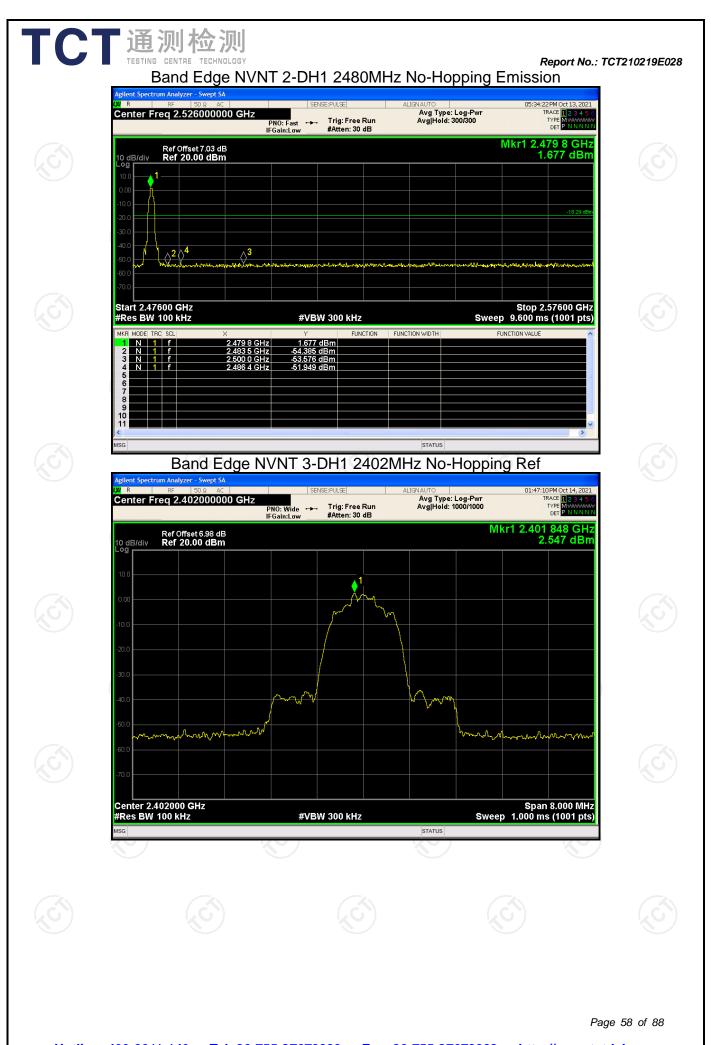
Band Edge NVNT 1-DH1 2402MHz No-Hopping Ref

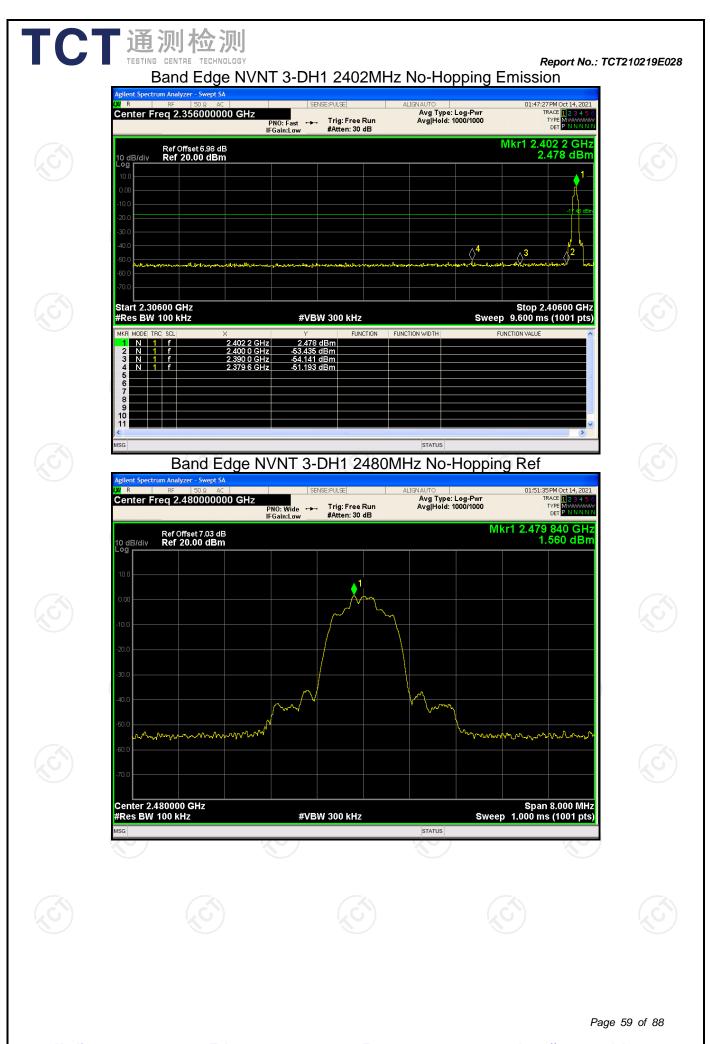


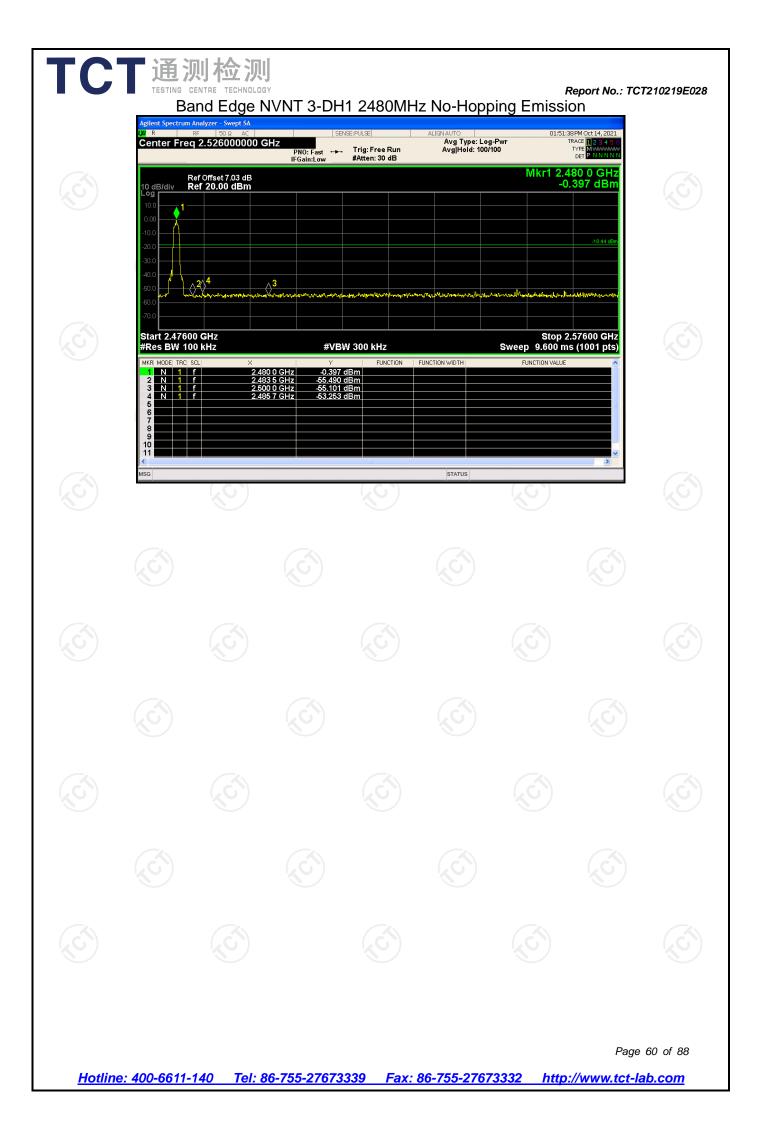












		ESTING CENTRE	TECHNOLOGY			Report N	lo.: TCT210219E02	8
			Ва	and Edge(Hop	ping)			
	Condition	Mode	Frequency	Hopping	Max Value	Limit	Verdict	
	Condition	woue	(MHz)	Mode	(dBc)	(dBc)	verdici	
6	NVNT	1-DH1	2402	Hopping	-54.12	-20	Pass	
8	NVNT	1-DH1	2480	Hopping	-52.84 📉	-20	Pass	
	NVNT	2-DH1	2402	Hopping	-53.22	-20	Pass	
	NVNT	2-DH1	2480	Hopping	-53.26	-20	Pass	

TCT通测检测

3-DH1

3-DH1

2402

2480

NVNT

NVNT

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

Hopping

Hopping

-53.84

-53.15

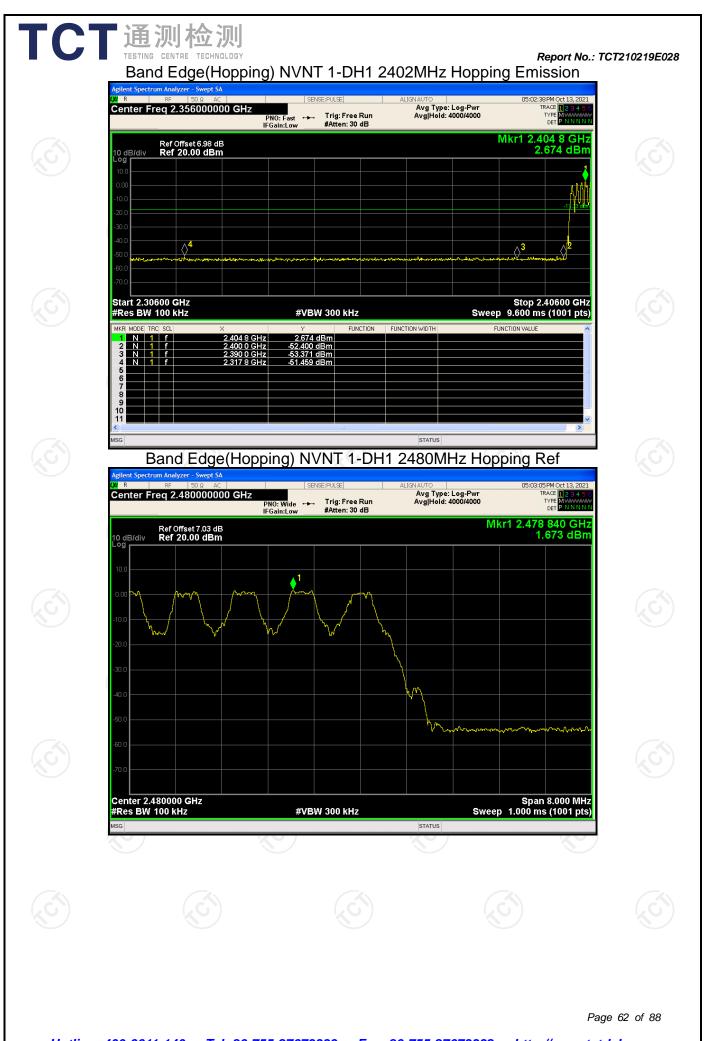
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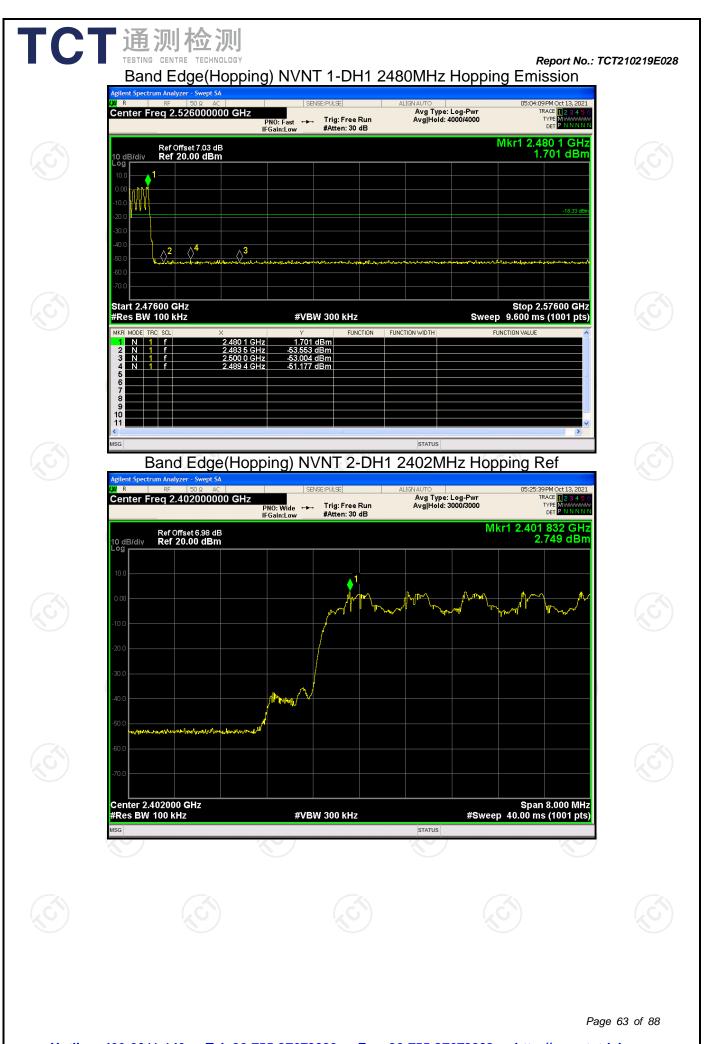
-20

Pass

Pass



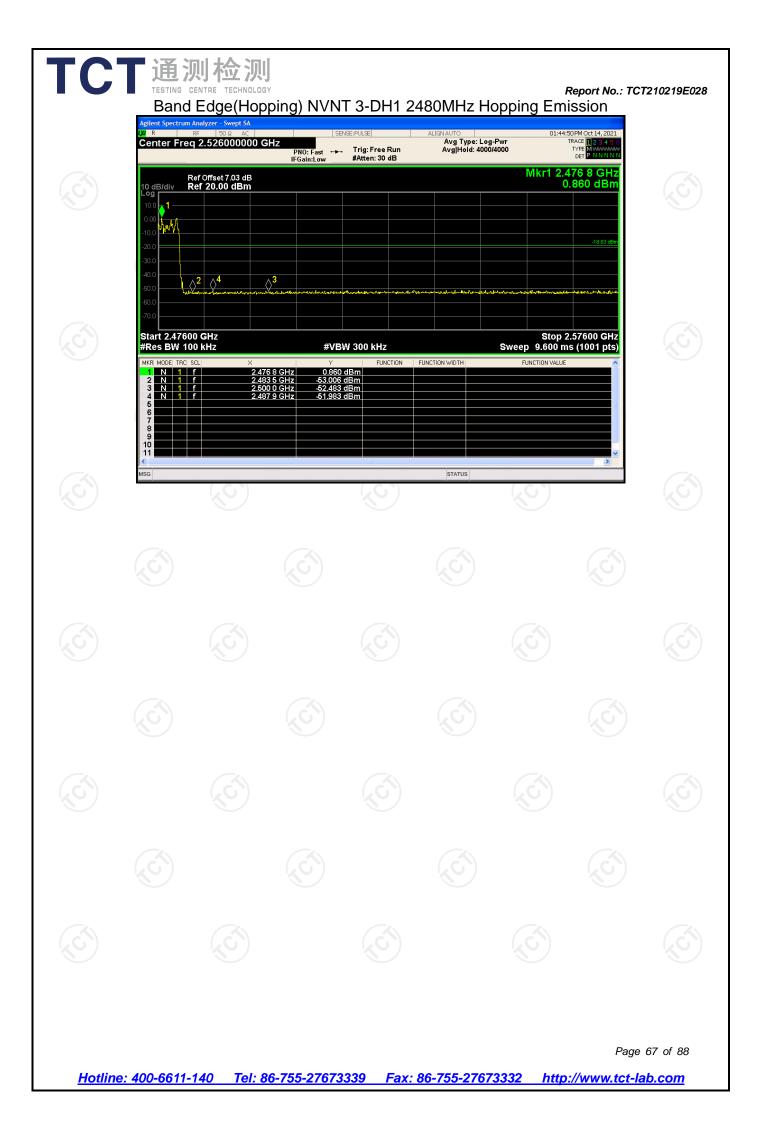












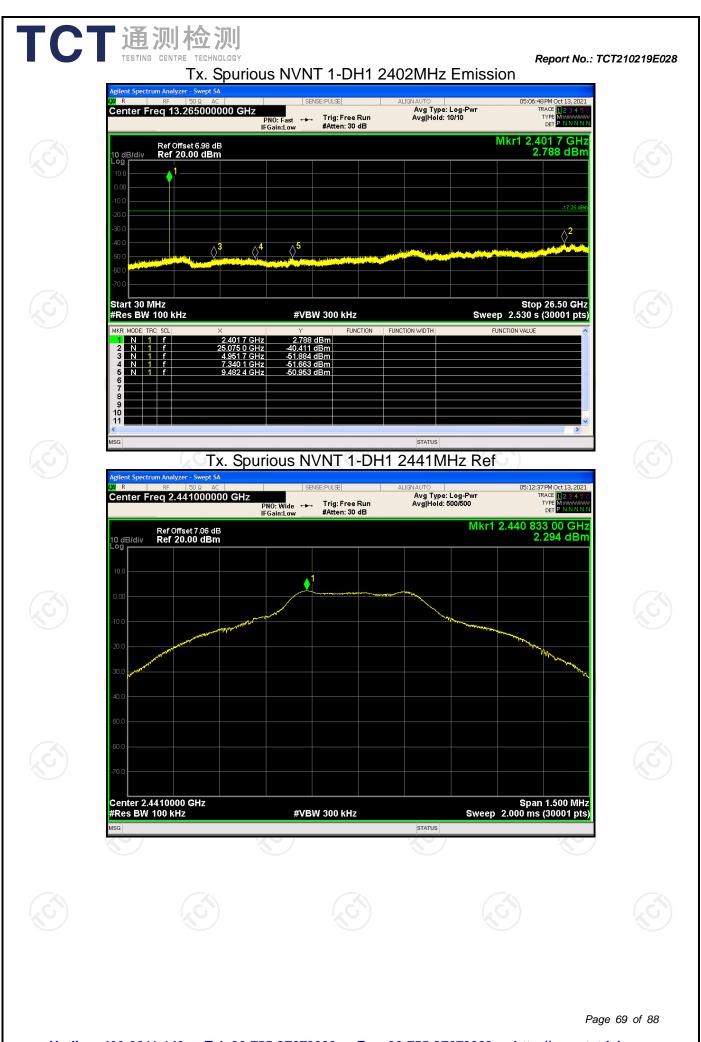
		(MHz)	(dBc)	Limit (dBc)	Verdict	
IVNT	1-DH1	2402	-43.16	-20	Pass	
IVNT	1-DH1	2441	-42	-20	Pass	
IVNT	1-DH1	2480	-41.42	-20	Pass	
IVNT	2-DH1	2402	-43.4	-20	Pass	
IVNT	2-DH1	2441	-42.6	-20	Pass	
INNT	2-DH1	2480	-40.74	-20	Pass	
IVNT	3-DH1	2402	-42.85	-20	Pass	
IVNT	3-DH1	2441	-41.59	-20	Pass	
IVNT	3-DH1	2480	-40.92	-20	Pass	
	IVNT IVNT IVNT IVNT IVNT IVNT	IVNT1-DH1IVNT1-DH1IVNT2-DH1IVNT2-DH1IVNT2-DH1IVNT3-DH1IVNT3-DH1	IVNT 1-DH1 2441 IVNT 1-DH1 2480 IVNT 2-DH1 2402 IVNT 2-DH1 2441 IVNT 2-DH1 2441 IVNT 2-DH1 2442 IVNT 2-DH1 2441 IVNT 3-DH1 2402 IVNT 3-DH1 2441	IVNT 1-DH1 2441 -42 IVNT 1-DH1 2480 -41.42 IVNT 2-DH1 2402 -43.4 IVNT 2-DH1 2441 -42.6 IVNT 2-DH1 2480 -40.74 IVNT 2-DH1 2402 -42.85 IVNT 3-DH1 2441 -41.59	IVNT1-DH12441-42-20IVNT1-DH12480-41.42-20IVNT2-DH12402-43.4-20IVNT2-DH12441-42.6-20IVNT2-DH12480-40.74-20IVNT3-DH12402-42.85-20IVNT3-DH12441-41.59-20	IVNT 1-DH1 2441 -42 -20 Pass IVNT 1-DH1 2480 -41.42 -20 Pass IVNT 2-DH1 2402 -43.4 -20 Pass IVNT 2-DH1 2402 -43.4 -20 Pass IVNT 2-DH1 2441 -42.6 -20 Pass IVNT 2-DH1 2480 -40.74 -20 Pass IVNT 3-DH1 2402 -42.85 -20 Pass IVNT 3-DH1 2441 -41.59 -20 Pass

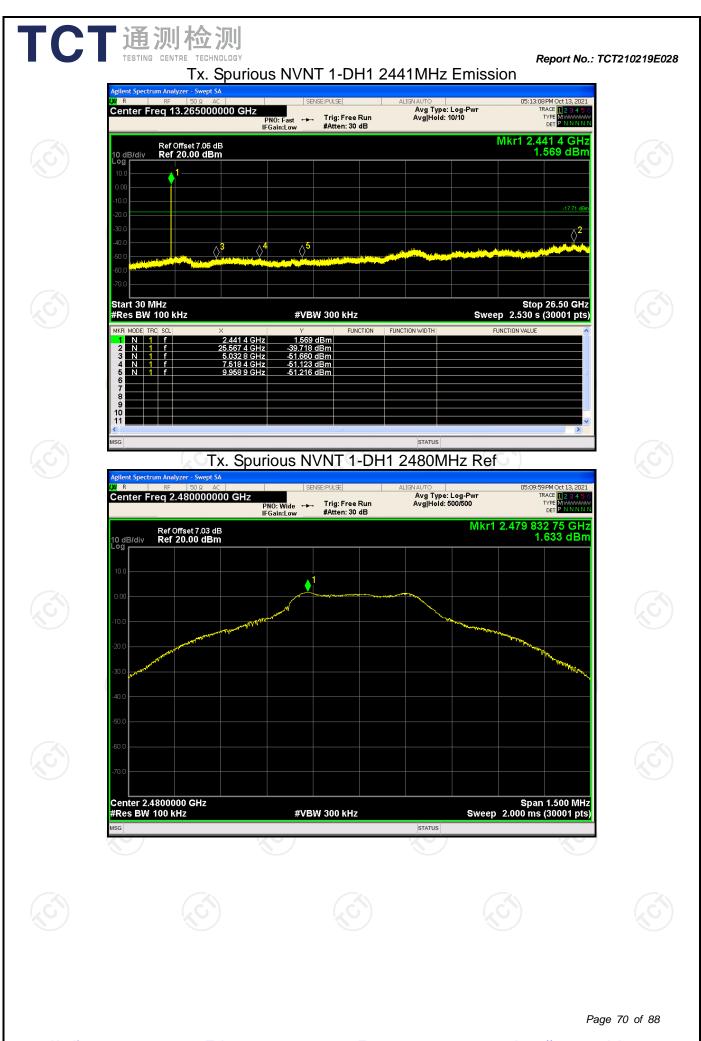
Conducted RF Spurious Emission

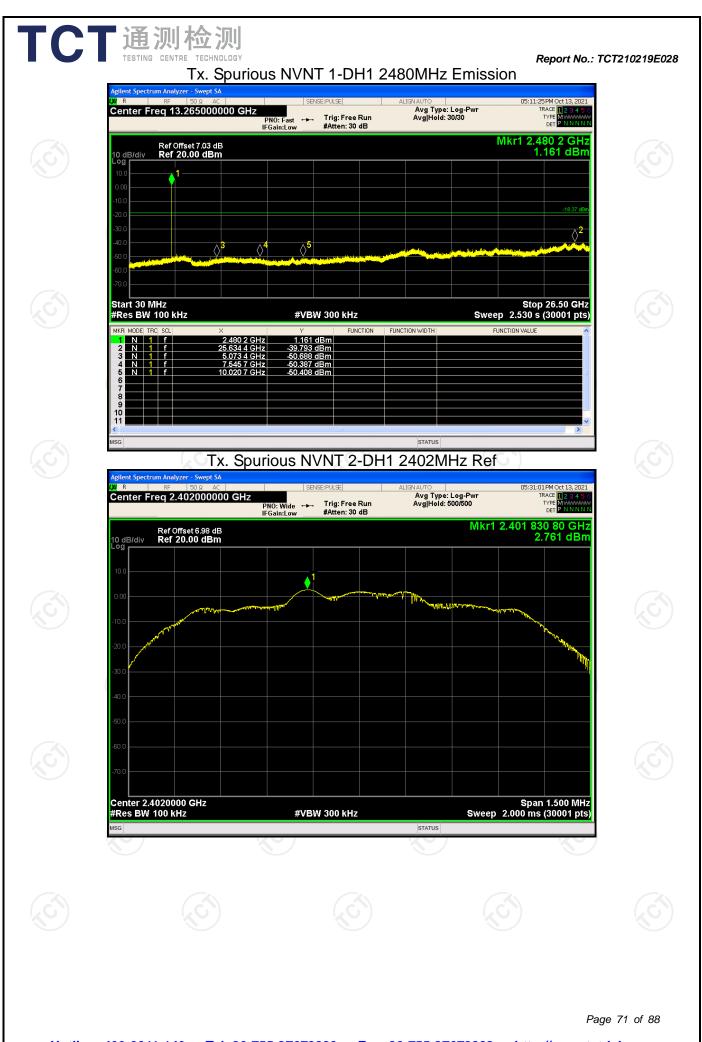
Tx. Spurious NVNT 1-DH1 2402MHz Ref

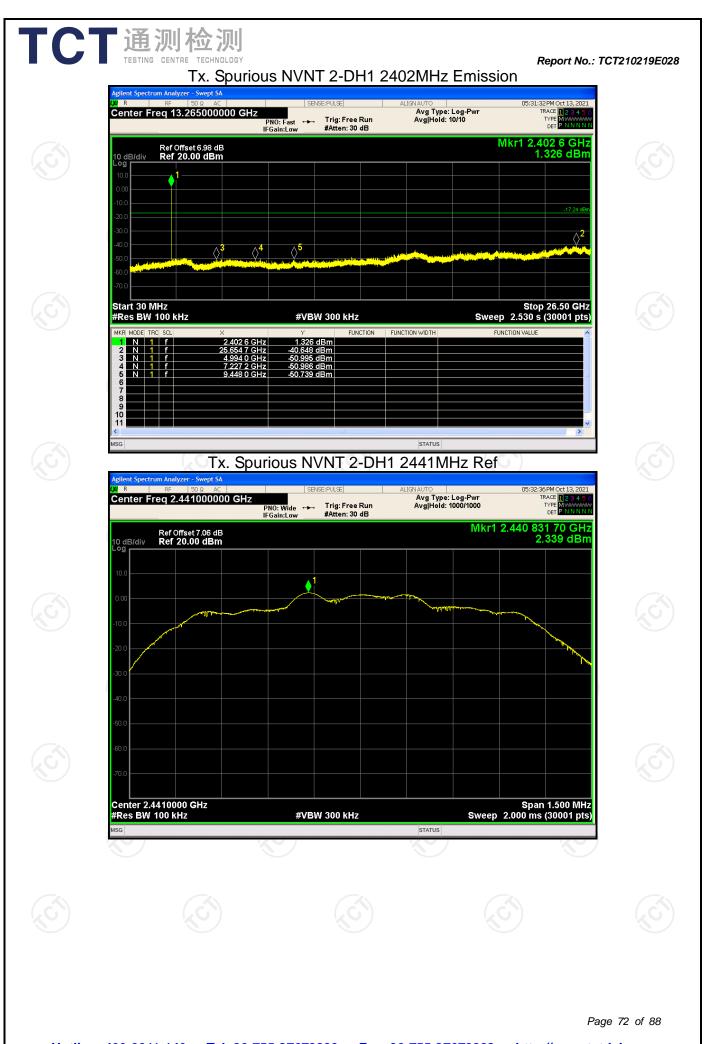


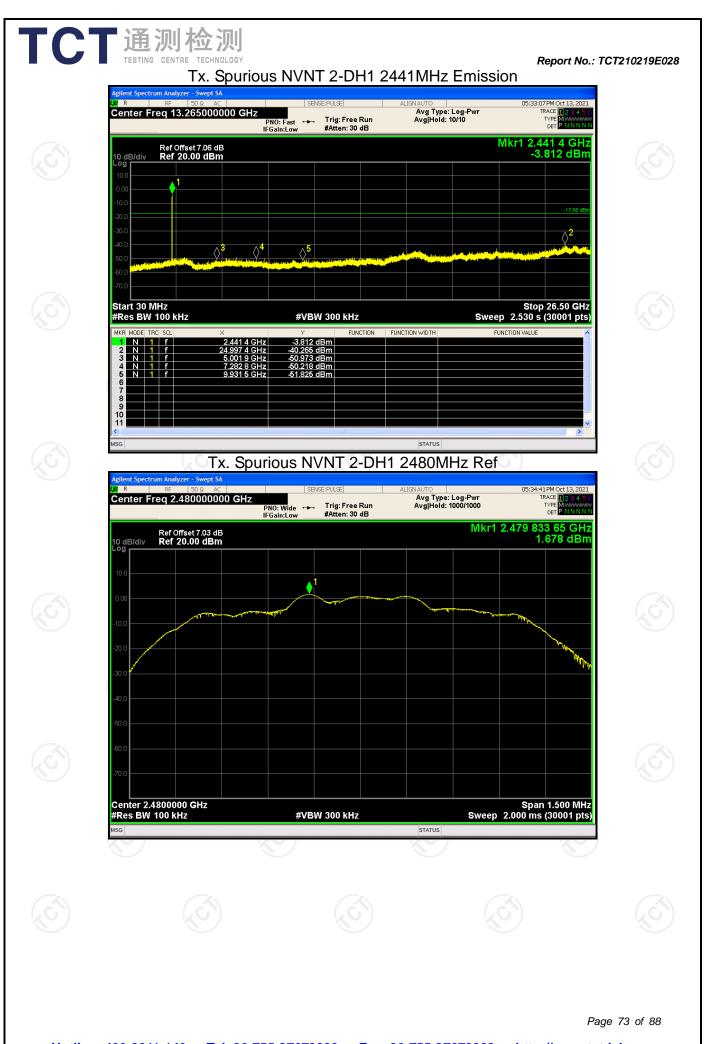
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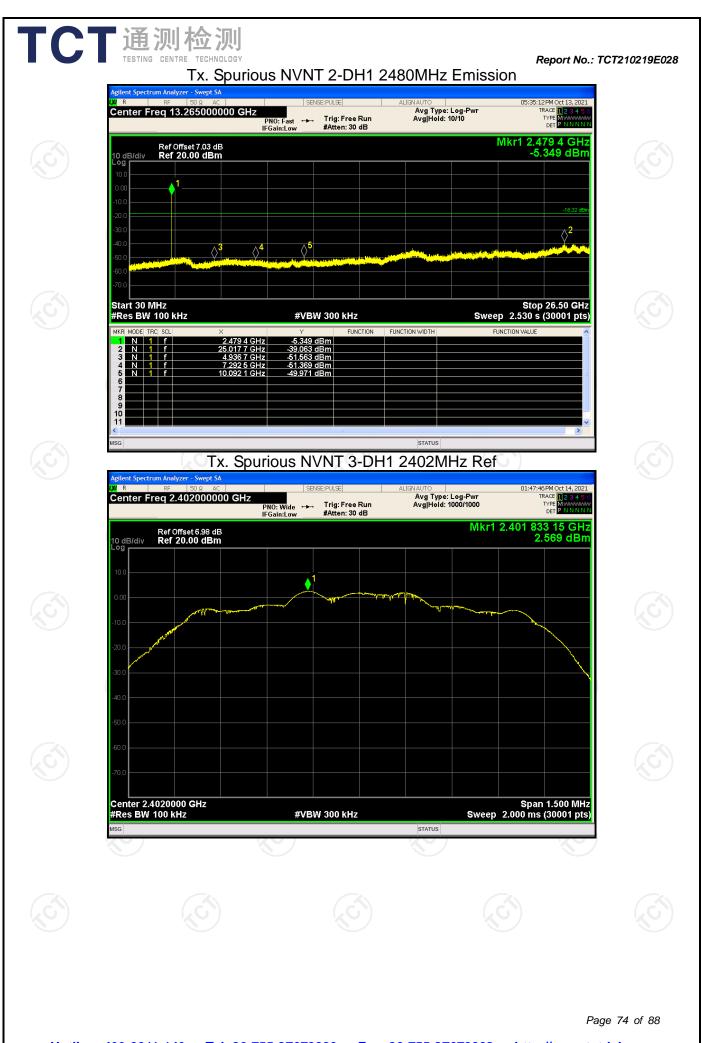


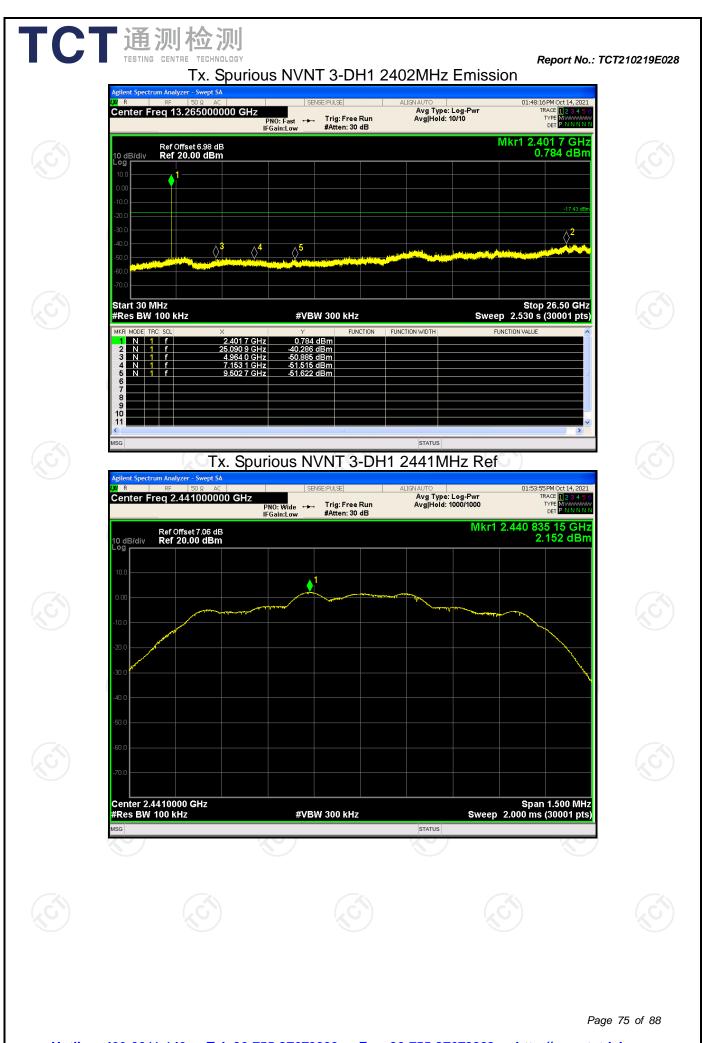


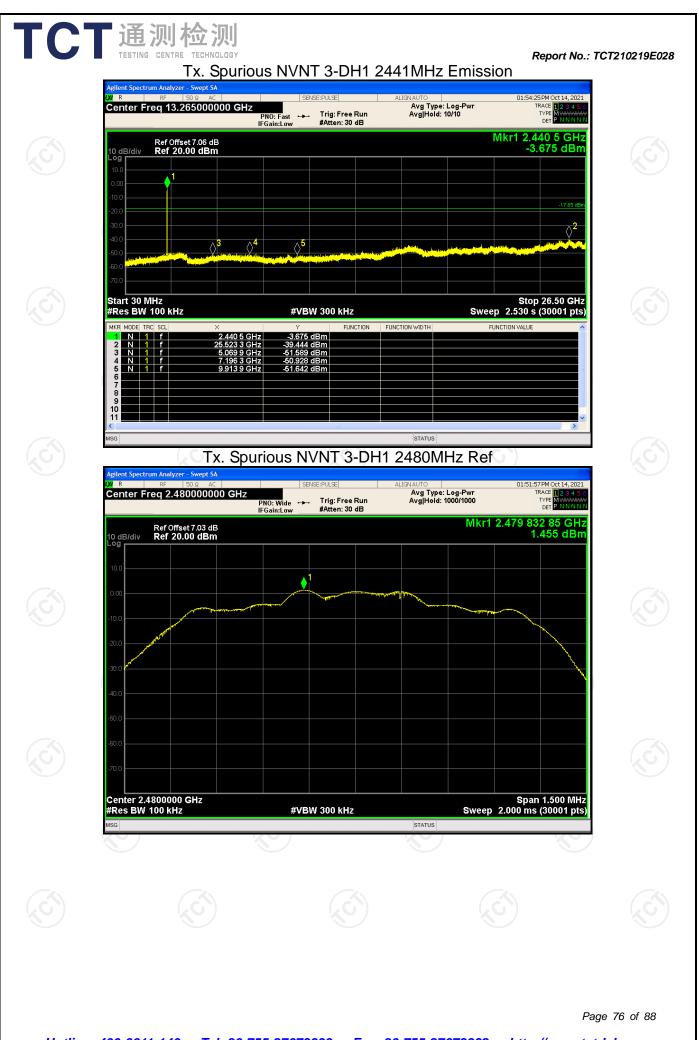












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