

TEST REPORT					
FCC ID:	2BEQO-S20				
Test Report No::	TCT240903E024				
Date of issue::	Sep. 10, 2024				
Testing laboratory:	SHENZHEN TONGCE TESTING LAB				
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	SHENZHEN HAOCHENG TECHNOLOGY CO., LTD				
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Manufacturer's name:	SHENZHEN HAOCHENG TECHNOLOGY CO., LTD				
Address::	501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road, Gaofa Community, Shahe Street, Nanshan District, Shenzhen city, 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 C63.10:2020				
Product Name::	SmartWatch				
Trade Mark:	N/A				
Model/Type reference:	S20				
Rating(s)::	Rechargeable Li-ion Battery DC 3.7V				
Date of receipt of test item:	Sep. 03, 2024				
Date (s) of performance of test:	Sep. 03, 2024 ~ Sep. 10, 2024				
Tested by (+signature):	Yannie ZHONG				
Check by (+signature):	Beryl ZHAO Roy(ZETCT)				
Approved by (+signature):	Tomsin Jones in Tomsin				

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1. General Product Information

1.1. EUT description

Product Name:	SmartWatch		
Model/Type reference:	S20		
Sample Number:	TCT240903E024-0101		
Bluetooth Version:	V5.2(This report is for BDR+EDR)		
Operation Frequency:	2402MHz~2480MHz		
Transfer Rate:	1/2/3 Mbits/s		(C)
Number of Channel:	79		
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	(3)	
Modulation Technology:	FHSS		
Antenna Type:	Internal Antenna		
Antenna Gain:	-2.57dBi		(0)
Rating(s):	Rechargeable Li-ion Battery DC 3.7V		

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

1.2. Model(s) list

None.





1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
_ 0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
(6))1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
·		<i></i>		/		·	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
							
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	- 59	2461MHz	74	-

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.





3. General Information

3.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	24.6 °C	24.1 °C			
Humidity:	49 % RH	53 % RH			
Atmospheric Pressure: 1010 mbar 1010 mbar					
Test Software:					
Software Information:	Software Information: RTLBTAPP				
Power Level:	Power Level: Default				
Test Mode:					
Engineer mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery					

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





3.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA200	R37M4PR7QD4SE3	/	SAMSUNG

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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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

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

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

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

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



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

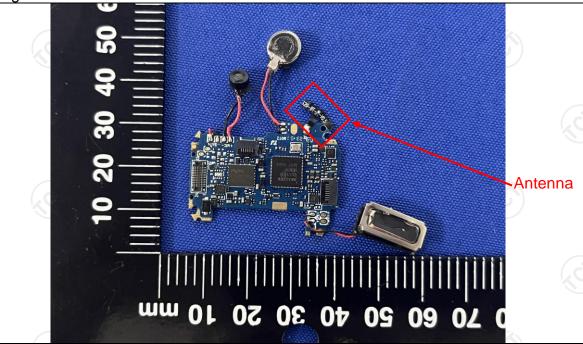
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 -2.57dBi.







5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement: Test Method: Frequency Range: Receiver setup:	FCC Part15 C Section ANSI C63.10:2020 150 kHz to 30 MHz RBW=9 kHz, VBW=30 Frequency range	(i)	(3)				
Frequency Range:	150 kHz to 30 MHz RBW=9 kHz, VBW=30	kHz Sween time	(c)				
. , , ,	RBW=9 kHz, VBW=30	kHz Sween time	(3)				
Receiver setup:		kHz Sween time					
	Frequency range	Ki iz, Sweep tillie	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
Limits:	(MHz) 0.15-0.5 0.5-5	Limit (control of the Control of the	Average 56 to 46*				
	5-30	60	50				
Test Setup:	Reference Plane 40cm 80cm LISN Filter AC power Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Charging + Transmittin	Charging + Transmitting Mode					
Test Procedure:	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement. 						
Test Result:	PASS						



5.2.2. Test Instruments

Report No.: TCT240903E024

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025	
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025	
Attenuator	N/A	10dB	164080	Jun. 26, 2025	
Line-5	TCT	CE-05	1	Jun. 26, 2025	
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1	
· ·			(2)		



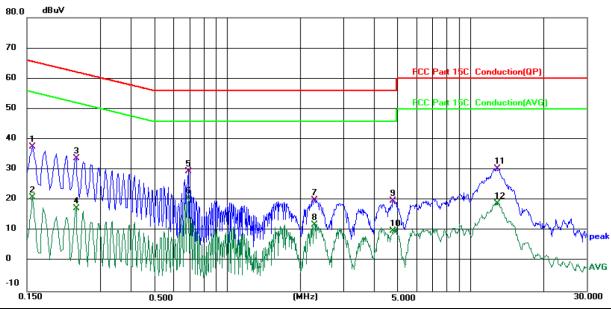




5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: L1

Temperature: 24.6 (℃)

Humidity: 49 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1580	27.86	9.67	37.53	65.57	-28.04	QP	
2		0.1580	11.20	9.67	20.87	55.57	-34.70	AVG	
3		0.2380	24.02	9.65	33.67	62.17	-28.50	QP	
4		0.2380	7.69	9.65	17.34	52.17	-34.83	AVG	
5		0.6900	19.21	10.38	29.59	56.00	-26.41	QP	
6	*	0.6900	10.42	10.38	20.80	46.00	-25.20	AVG	
7		2.2860	10.11	9.88	19.99	56.00	-36.01	QP	
8		2.2860	1.99	9.88	11.87	46.00	-34.13	AVG	
9		4.8220	9.61	10.18	19.79	56.00	-36.21	QP	
10		4.8220	-0.19	10.18	9.99	46.00	-36.01	AVG	
11		12.8380	20.00	10.29	30.29	60.00	-29.71	QP	
12		12.8380	8.72	10.29	19.01	50.00	-30.99	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

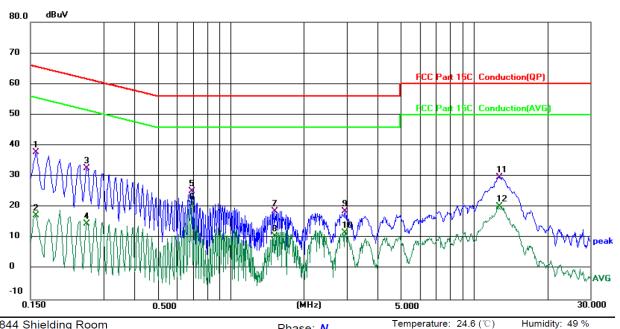
AVG =average

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





Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Limit: FCC Part 15C Conduction(QP)

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		0.1580	28.23	9.65	37.88	65.57	-27.69	QP	
2		0.1580	7.61	9.65	17.26	55.57	-38.31	AVG	
3		0.2540	22.97	9.64	32.61	61.63	-29.02	QP	
4		0.2540	5.06	9.64	14.70	51.63	-36.93	AVG	
5		0.6900	14.93	10.35	25.28	56.00	-30.72	QP	
6	*	0.6900	10.53	10.35	20.88	46.00	-25.12	AVG	
7		1.5140	9.05	9.75	18.80	56.00	-37.20	QP	
8		1.5140	0.81	9.75	10.56	46.00	-35.44	AVG	
9		2.9539	8.73	9.90	18.63	56.00	-37.37	QP	
10		2.9539	1.74	9.90	11.64	46.00	-34.36	AVG	
11		12.6739	19.45	10.28	29.73	60.00	-30.27	QP	
12		12.6739	9.93	10.28	20.21	50.00	-29.79	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 (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak AVG =average

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

Note2:

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

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5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.					
Test Result:	PASS					

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		

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5.4. 20dB Occupy Bandwidth

5.4.1. Test Specification

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

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	1	1

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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. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. 			
Test Result:	PASS			

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		1





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. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 				
Test Result:	PASS				

5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	1



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 Anabass EUT				
	Spectrum Analyzer				
Test Mode:	Hopping mode				
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable. 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	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		



5.8. Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

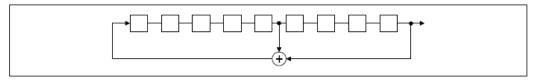
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

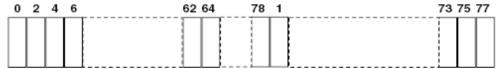
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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5.9. Conducted Band Edge Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
Test Result:	PASS (C)

5.9.2. Test Instruments

(Name	Manufacturer	Model No.	Serial Number	Calibration Due
	Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
	Combiner Box	Ascentest	AT890-RFB	3) 1	





5.10. Conducted Spurious Emission Measurement

5.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)	Ko							
Test Method:	KDB 558074 D01 v05r02								
Limit:	shall be at least 20 dB below the highest level of radiated power. In addition, radiated emissions	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							
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. The path lo compensated to the results for each measure. Set to the maximum power setting and enable EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan through 10th harmonic. All harmonics / spursat least 20 dB down from the highest emissi within the authorized band as measured with kHz RBW. Measure and record the results in the test results. The RF fundamental frequency should be exagainst the limit line in the operating frequency. 	ss was rement. ole the up s must be on level h a 100 eport.							
Test Result:	PASS	<i>)</i>							

5.10.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		(C)

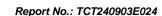
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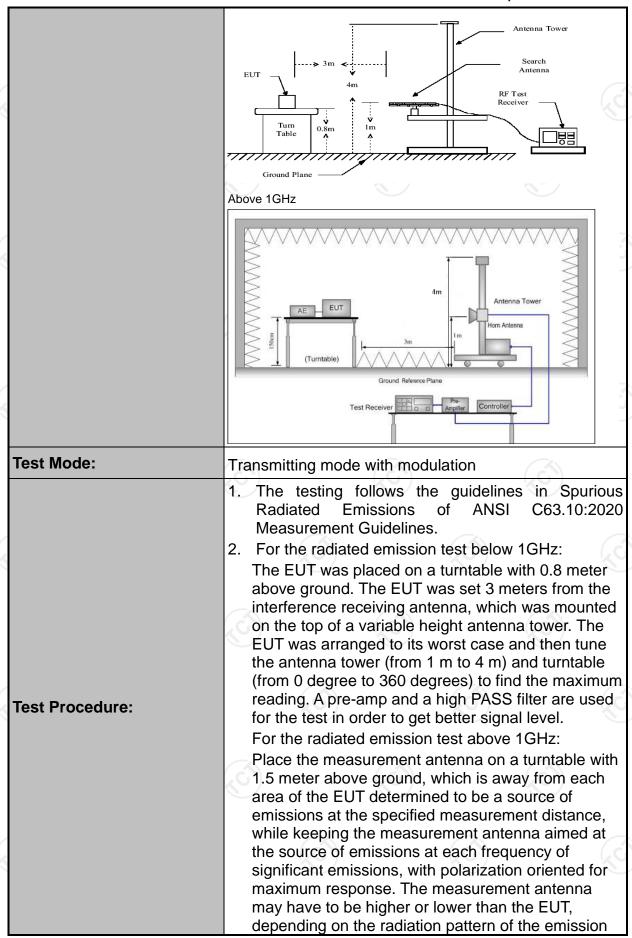
5.11. Radiated Spurious Emission Measurement

5.11.1. Test Specification

		Z						
Test Requirement:	FCC Part15	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10	0:2020						
Frequency Range:	9 kHz to 25 (GHz						
Measurement Distance:	3 m	1	(6)		160)		
Antenna Polarization:	Horizontal &	Vertical						
	Frequency	Detector	RBW	VBW		Remark		
	9kHz- 150kHz	Quasi-pea	ak 200Hz	1kHz	Quas	si-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-pea		30kHz		si-peak Value		
•	30MHz-1GHz	Quasi-pea	ak 120KHz	300KHz	Quas	si-peak Value		
	.G)	Peak	1MHz	3MHz		eak Value		
	Above 1GHz	Peak	1MHz	10Hz		erage Value		
		1 oak	1141112	10112	7,100	orage value		
	F		Field Stre	ength	Me	asurement		
	Frequen	icy	(microvolts	/meter)	Dista	nce (meters)		
	0.009-0.4	190	2400/F(H			300		
	0.490-1.7		24000/F(30		
	1.705-3		30	11112)		30		
						3		
	30-88		100			÷ .		
I !!(-	88-216		150		(2C)	3		
Limit:	216-96		200			3		
	Above 9	60	500			3		
	Frequency		eld Strength rovolts/meter)	Measure Distan (meter	ce	Detector		
	A1 4011		500	3		Average		
	Above 1GH	Z	5000			Peak		
	For radiated emis	ssions belov	w 30MHz		(c)			
	Di	stance = 3m			Comput	ter		
	L L							
		1/		Pro	Amplifier	1 🦪		
		.(ampinner	H I kc		
Test setup:	0.8m EUT	Turn table 1m						
	1	Grou	nd Plane	L		1		
	30MHz to 1GHz							
A) (A)								









EUT transmit continuously. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds	TESTING CENTRE TECH	Report No.: TCT240903E02
 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 		receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Set to the maximum power setting and enable the
(3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level		 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace
Loss + Read Level - Preamp Factor = Level		(3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)
PASS PASS	Test results:	Loss + Read Level - Preamp Factor = Level
	Test Tesuits.	FASS





5.11.2. Test Instruments

	Radiated Er	mission Test Sit	e (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025	
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025	
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025	
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Jan. 31, 2025	
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Jan. 31, 2025	
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025	
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025	
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025	
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025	
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-04-D	(3)	Jun. 26, 2025	
Coaxial cable	SKET	RE-04-M		Jun. 26, 2025	
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025	
Antenna Mast	Keleto	RE-AM) ,	(6)	
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/	

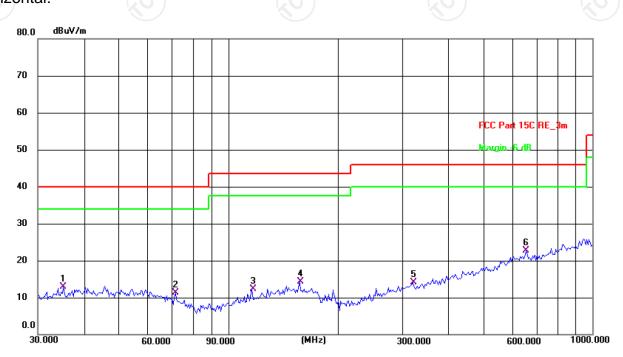


5.11.3. Test Data

Please refer to following diagram for individual

Horizontal:

Below 1GHz



Site: 3m Anechoic Chamber1 Polarization: Horizontal Temperature: 24.1(C) Humidity: 53 %

Power: DC 3.7 V

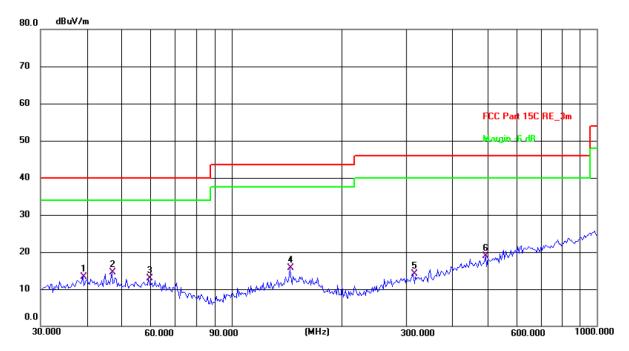
Limit: FCC Part 15C RE_3m

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	35.2511	25.37	-12.55	12.82	40.00	-27.18	QP	Р	
2	71.5805	25.55	-14.33	11.22	40.00	-28.78	QP	Р	
3	116.1321	26.25	-13.88	12.37	43.50	-31.13	QP	Р	
4	157.0073	25.49	-11.28	14.21	43.50	-29.29	QP	Р	
5	321.0608	24.42	-10.35	14.07	46.00	-31.93	QP	Р	_
6 *	656.5300	26.60	-3.94	22.66	46.00	-23.34	QP	Р	





Vertical:



Site: 3m Anechoic Chamber1 Polarization: Vertical Temperature: 24.1(C) Humidity: 53 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

*									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	39.1616	25.32	-11.92	13.40	40.00	-26.60	QP	Р	
2 *	46.9948	26.76	-12.19	14.57	40.00	-25.43	QP	Р	
3	59.2325	25.71	-12.72	12.99	40.00	-27.01	QP	Р	
4	144.3348	27.56	-11.92	15.64	43.50	-27.86	QP	Р	
5	314.3765	24.54	-10.46	14.08	46.00	-31.92	QP	Р	
6	495.9344	26.25	-7.41	18.84	46.00	-27.16	QP	Р	

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

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

3. Freq. = Emission frequency in MHz

Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

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

Over (dB) = Measurement $(dB\mu V/m)$ – Limits $(dB\mu V/m)$

* is meaning the worst frequency has been tested in the test frequency range.

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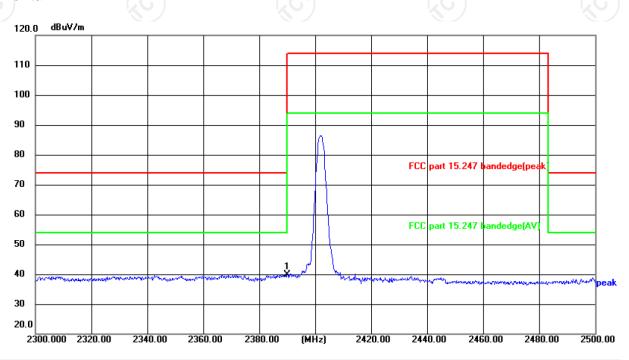
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



Site: 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 23.3(°C) Humidity: 52 %

Limit: FCC part 15.247 bandedge(peak)

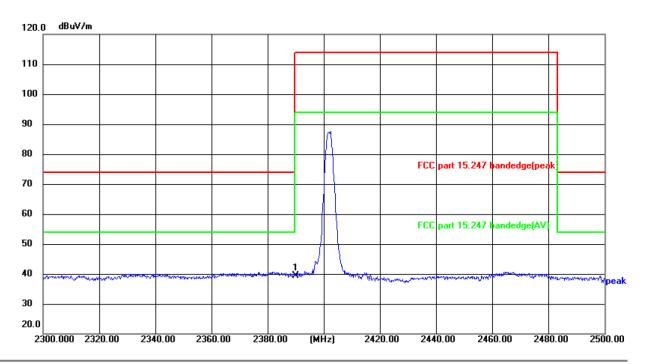
Power:DC 3.7 V

				/		. c.,c., c.,			
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390 000	56 37	-16 53	39.84	74 00	-34 16	neak	Р	





Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.3(°C) Humidity: 52 %

Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.7 V

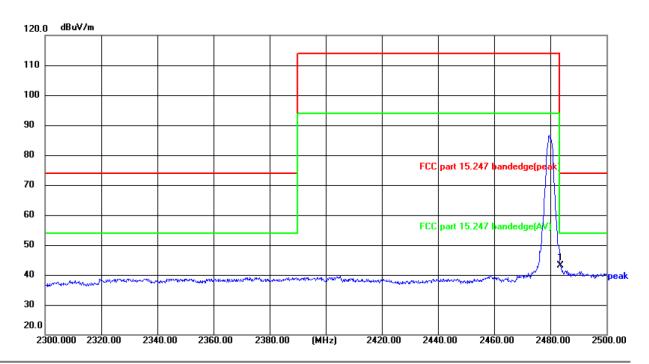
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	56.01	-16.53	39.48	74.00	-34.52	peak	Р	





Highest channel 2480:

Horizontal:



Site: 3m Anechoic Chamber

Polarization: Horizontal

Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.247 bandedge(peak)

Power:DC 3.7 V

ĺ	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
-[1 *	2483.500	59.67	-16.43	43.24	74.00	-30.76	peak	Р	































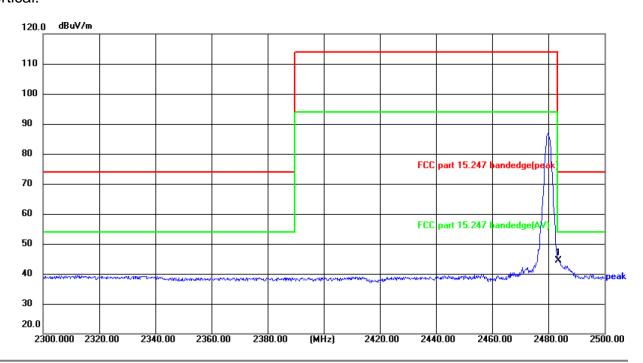








Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.3(°C) Humidity: 52 %

Limit: FCC part 15.247 bandedge(peak)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	60.87	-16.43	44.44	74.00	-29.56	peak	Р	

Power: DC 3.7 V

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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Above 1GHz

Modulation Type: 8DPSK											
Low channe	Low channel: 2402 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4804	Н	54.65	-	-9.51	45.14		74	54	-8.86		
7206	Η	45.11	ŀ	-1.41	43.70	-	74	54	-10.30		
	H						-				
	, G)		(,C			·C')		(.C)			
4804	V	56.92		-9.51	47.41	<u></u>	74	54	-6.59		
7206	V	47.44	-	-1.41	46.03		74	54	-7.97		
	V										

Middle cha		(0)			(20)				
Frequency (MHz)	requency Ant. Pol. (MHz)		AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4882	Н	55.77		-9.36	46.41		74	54	-7.59
7323	(OH)	46.03	-120	-1.14	44.89		74	54	-9.11
	H					<u> </u>			
4882	V	56.32		-9.36	46.96		74	54	-7.04
7323	V	46.41		-1.14	45.27		74	54	-8.73
5)	V	(2)		()		(S-2-)		

High channel: 2480 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Н	54.18		-9.20	44.98		74	54	-9.02
7440	Н	45.39		-0.96	44.43		74	54	-9.57
	Н				7		<u></u>		
(6)		(.G)		(.0			(.G)		(.C
4960	V	54.78		-9.20	45.58		74	54	-8.42
7440	V	45.14		-0.96	44.18		74	54	-9.82
	V								

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.
- 7. All the restriction bands are compliance with the limit of 15.209.





Appendix A: Test Result of Conducted Test

Maximum Conducted Output Power

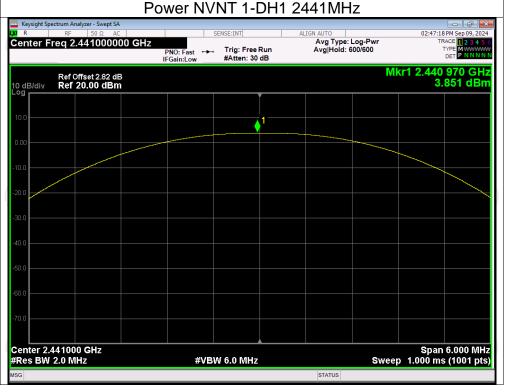
Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict	
1-DH1	2402	4.40	30	Pass	
1-DH1	2441	3.85	30	Pass	
1-DH1	2480	3.89	30	Pass	
2-DH1	2402	3.95	21	Pass	
2-DH1	2441	3.31	21	Pass	
2-DH1	2480	2.53	21	Pass	
3-DH1	2402	4.62	21	Pass	
3-DH1	2441	3.77	21	Pass	
3-DH1	2480	3.31	21	Pass	
	1-DH1 1-DH1 2-DH1 2-DH1 2-DH1 3-DH1 3-DH1	1-DH1 2402 1-DH1 2441 1-DH1 2480 2-DH1 2402 2-DH1 2441 2-DH1 2480 3-DH1 2402 3-DH1 2402	Mode (MHz) Power (dBm) 1-DH1 2402 4.40 1-DH1 2441 3.85 1-DH1 2480 3.89 2-DH1 2402 3.95 2-DH1 2441 3.31 2-DH1 2480 2.53 3-DH1 2402 4.62 3-DH1 2441 3.77	Mode (MHz) Power (dBm) (dBm) 1-DH1 2402 4.40 30 1-DH1 2441 3.85 30 1-DH1 2480 3.89 30 2-DH1 2402 3.95 21 2-DH1 2441 3.31 21 2-DH1 2480 2.53 21 3-DH1 2402 4.62 21 3-DH1 2441 3.77 21	

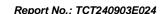




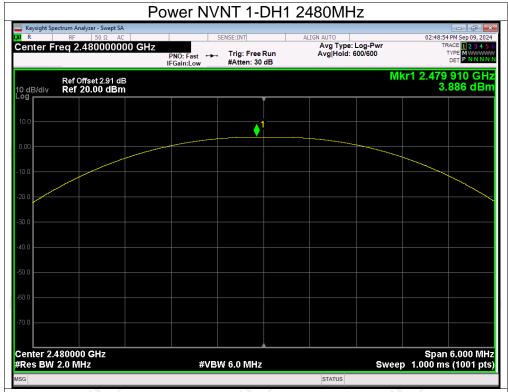








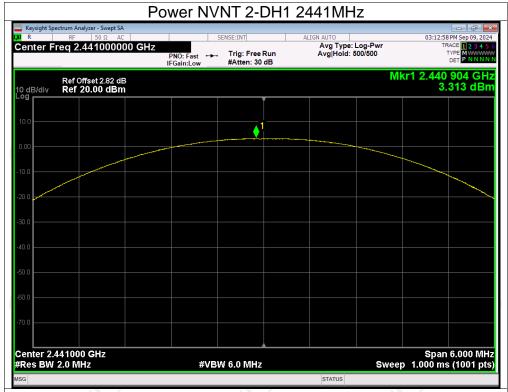


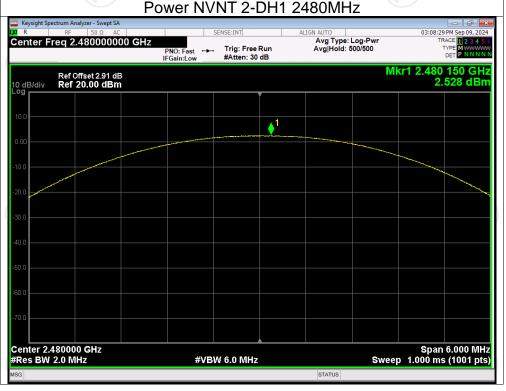












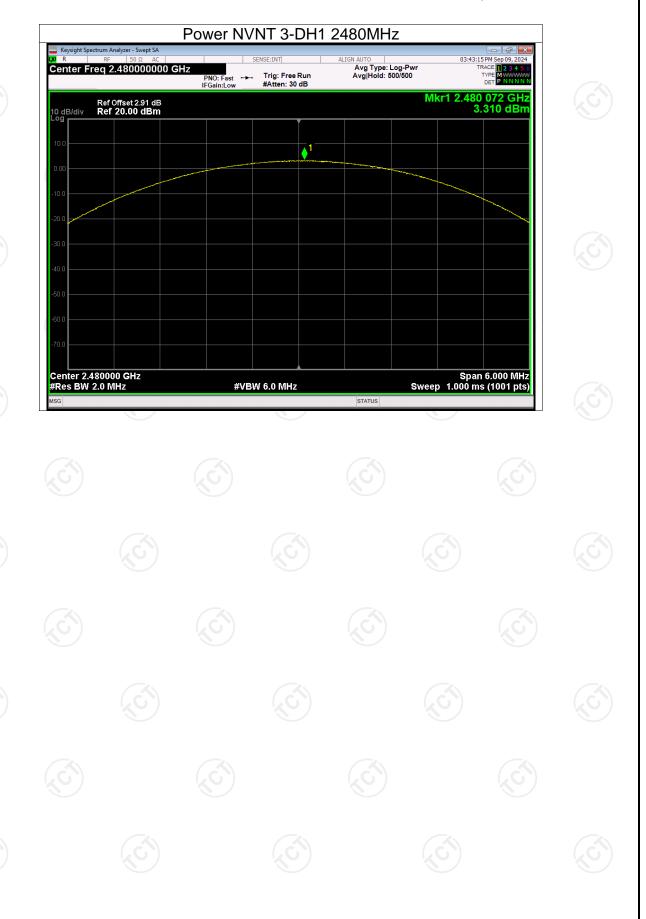














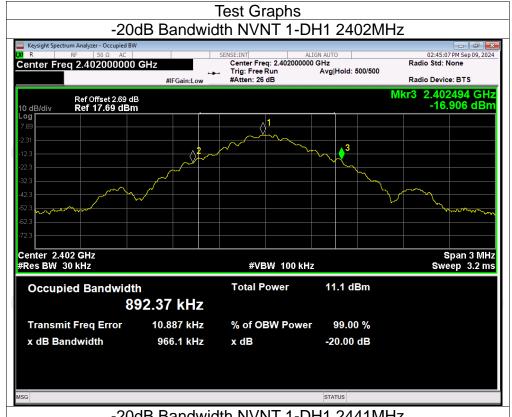
-20dB Bandwidth

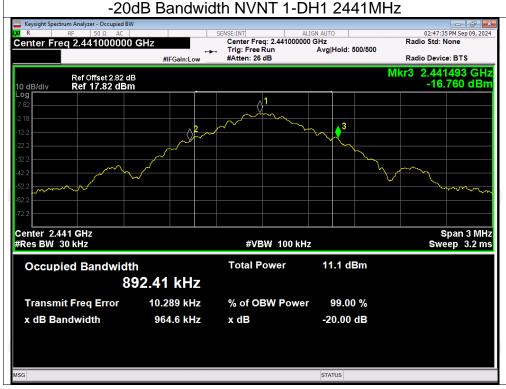
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.966	Pass
NVNT	1-DH1	2441	0.965	Pass
NVNT	1-DH1	2480	0.965	Pass
NVNT	2-DH1	2402	1.370	Pass
NVNT	2-DH1	2441	1.369	Pass
NVNT	2-DH1	2480	1.371	Pass
NVNT	3-DH1	2402	1.352	Pass
NVNT	3-DH1	2441	1.352	Pass
NVNT	3-DH1	2480	1.353	Pass









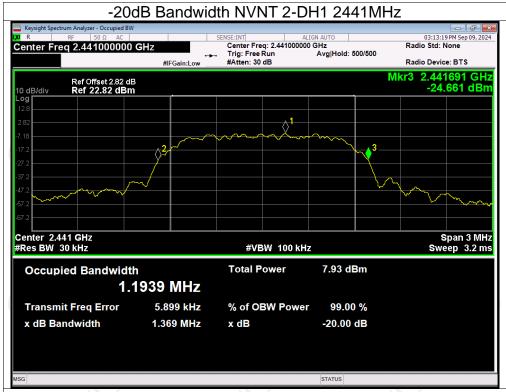






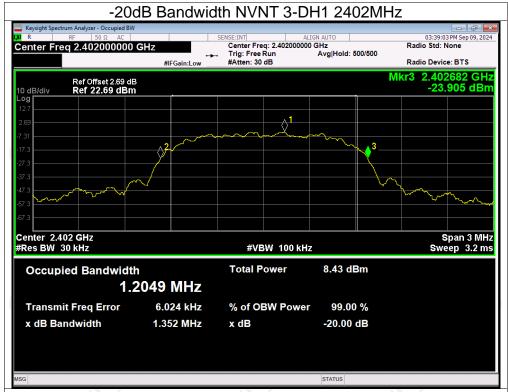




















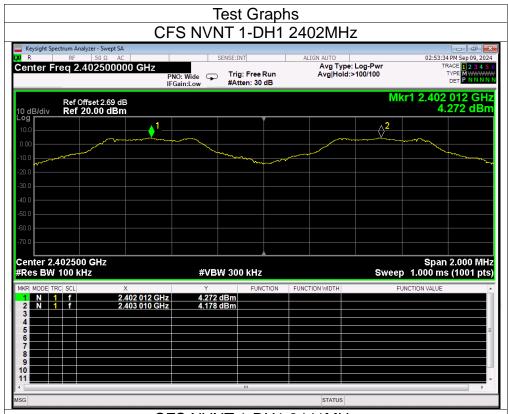
Carrier Frequencies Separation

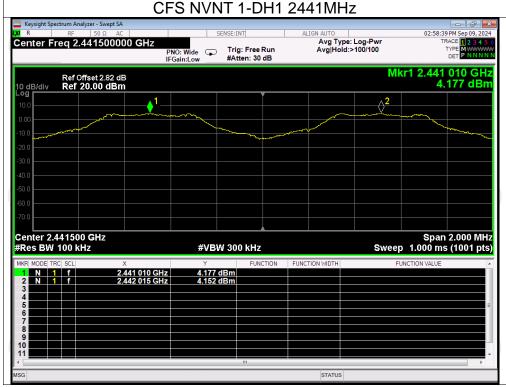
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2402.012	2403.010	0.998	0.966	Pass
NVNT	1-DH1	2441.010	2442.015	1.005	0.966	Pass
NVNT	1-DH1	2479.010	2480.011	1.001	0.966	Pass
NVNT	2-DH1	2402.002	2402.994	0.992	0.914	Pass
NVNT	2-DH1	2440.994	2441.996	1.002	0.914	Pass
NVNT	2-DH1	2478.998	2480.000	1.002	0.914	Pass
NVNT	3-DH1	2402.002	2402.990	0.988	0.902	Pass
NVNT	3-DH1	2441.002	2441.998	0.996	0.902	Pass
NVNT	3-DH1	2478.998	2480.000	1.002	0.902	Pass





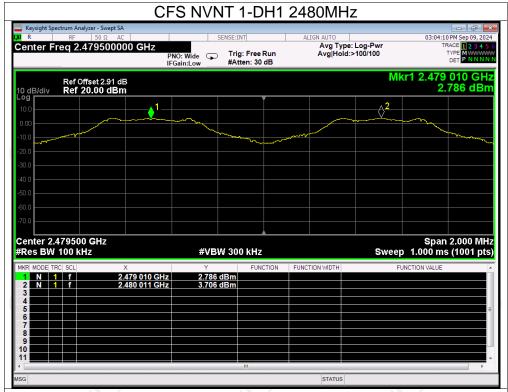


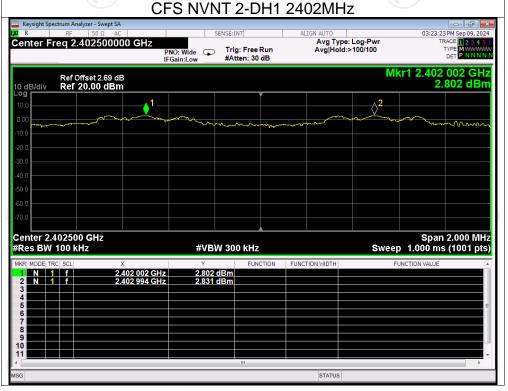






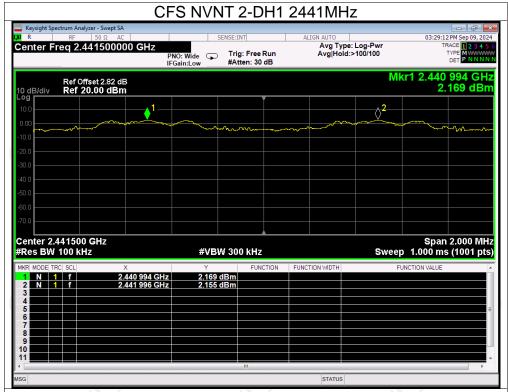


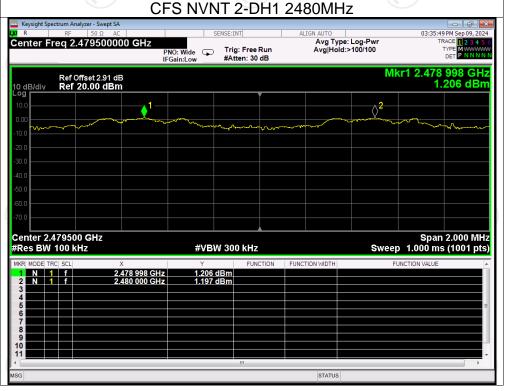






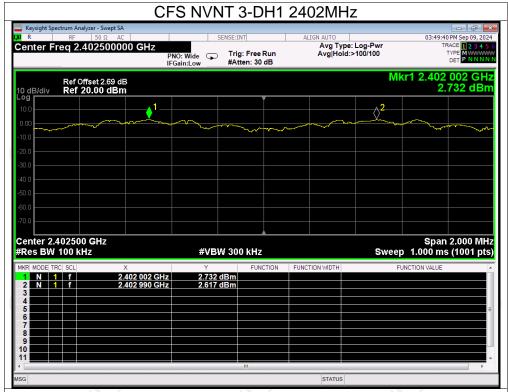


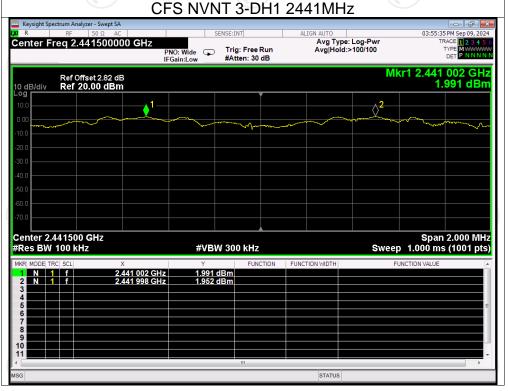




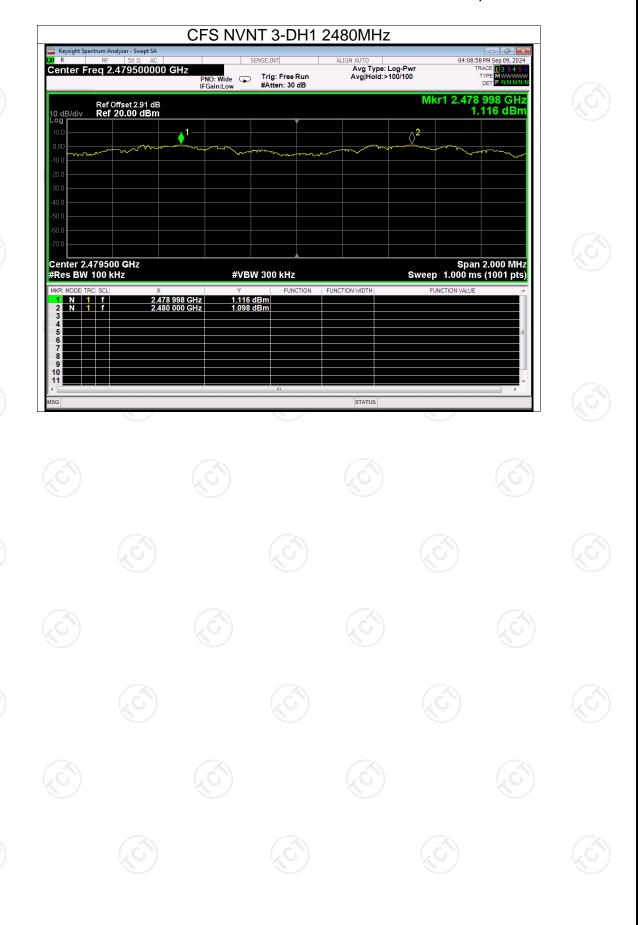








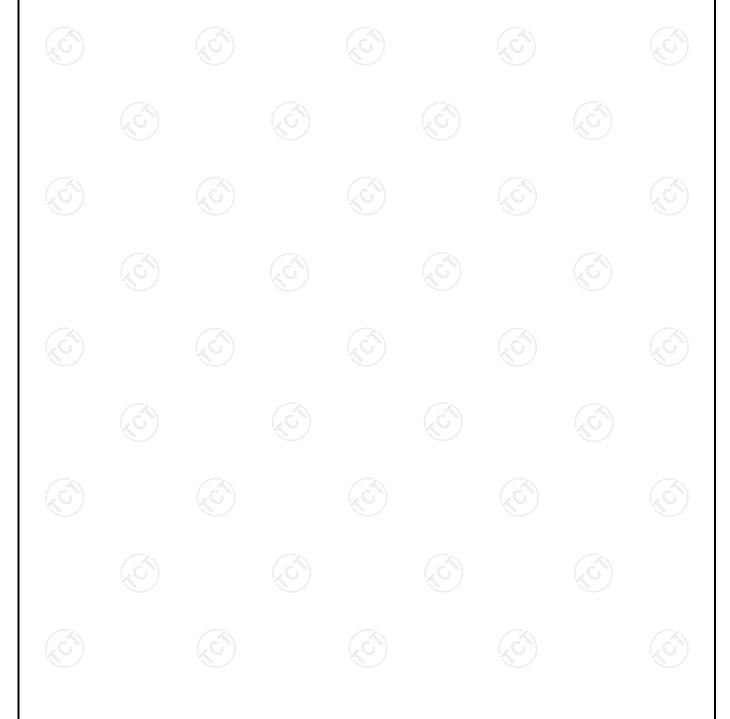






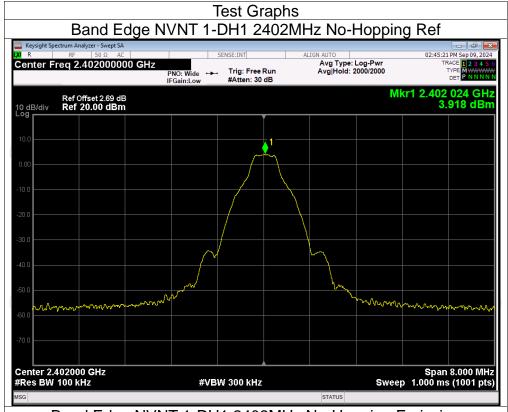
Band Edge

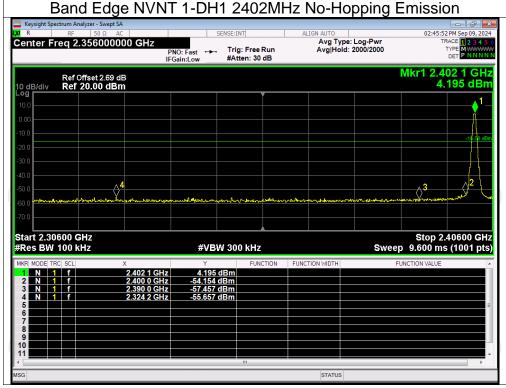
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-59.57	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-59.24	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-55.90	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-53.99	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-55.95	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-54.84	-20	Pass



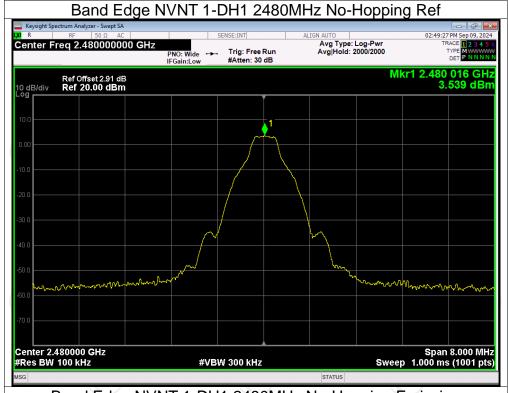


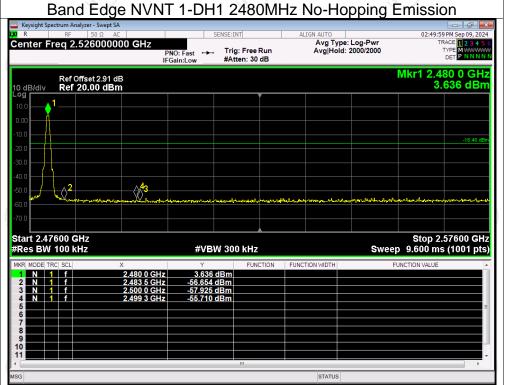




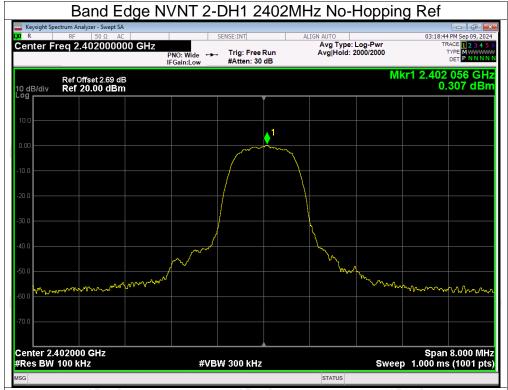


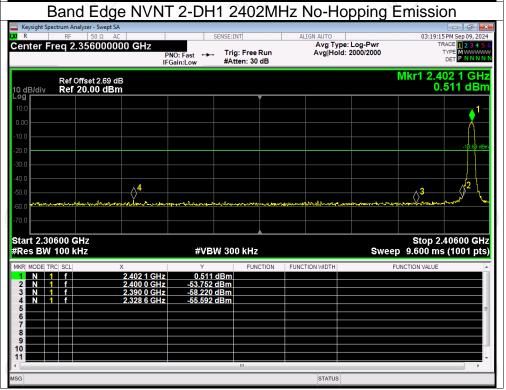




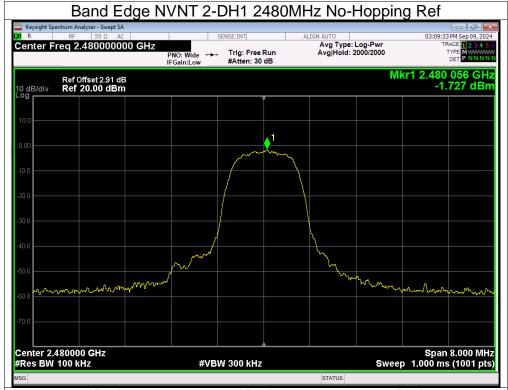


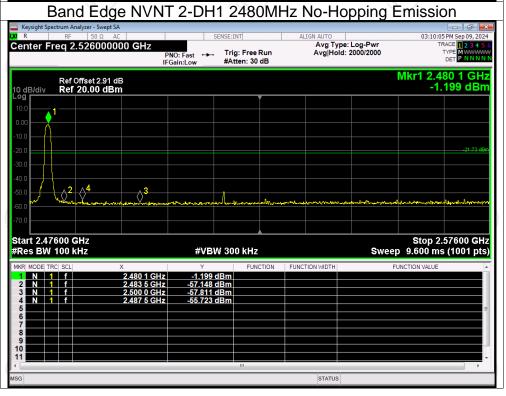




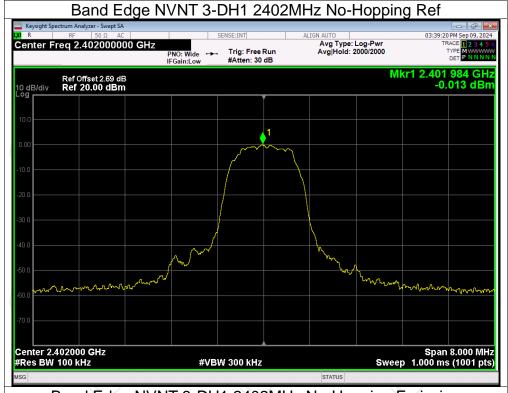


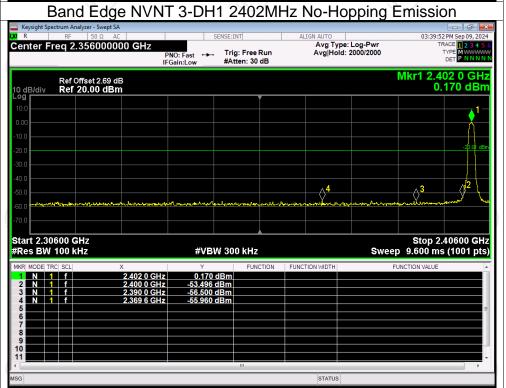




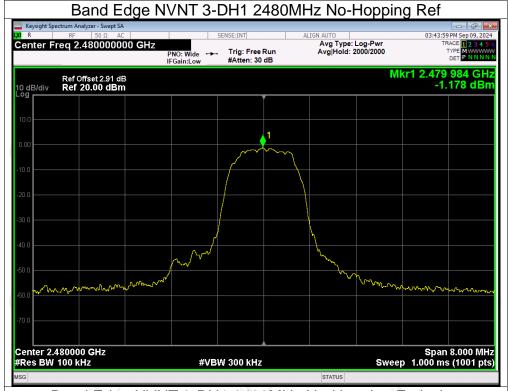


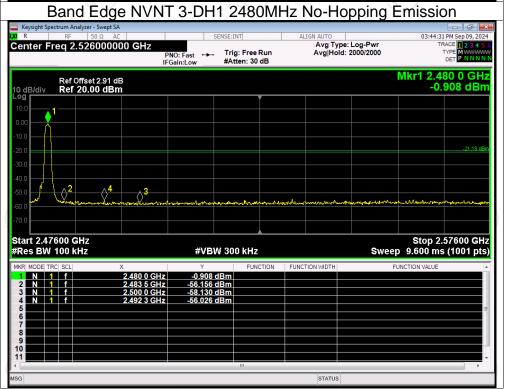








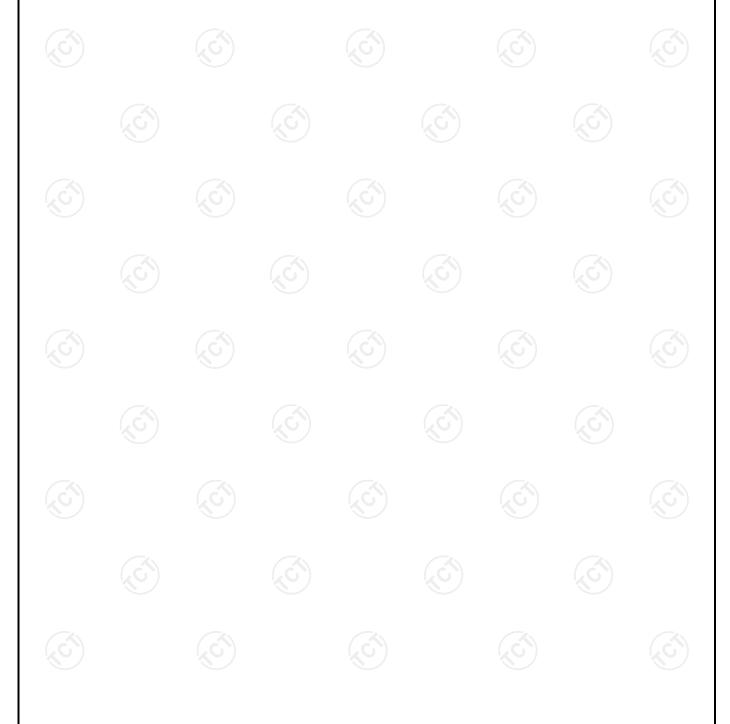






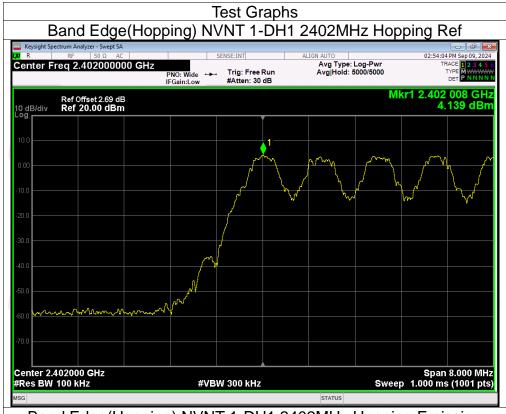
Band Edge(Hopping)

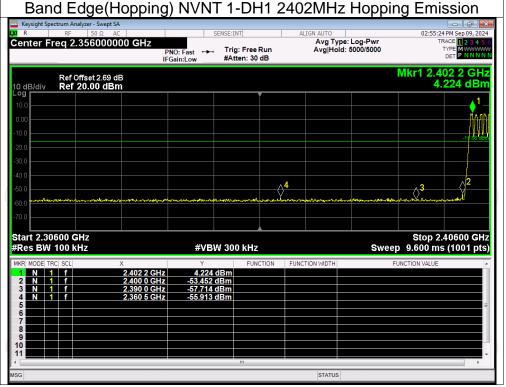
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-60.05	-20	Pass
NVNT	1-DH1	2480	Hopping	-59.42	-20	Pass
NVNT	2-DH1	2402	Hopping	-58.67	-20	Pass
NVNT	2-DH1	2480	Hopping	-56.60	-20	Pass
NVNT	3-DH1	2402	Hopping	-58.22	-20	Pass
NVNT	3-DH1	2480	Hopping	-57.28	-20	Pass







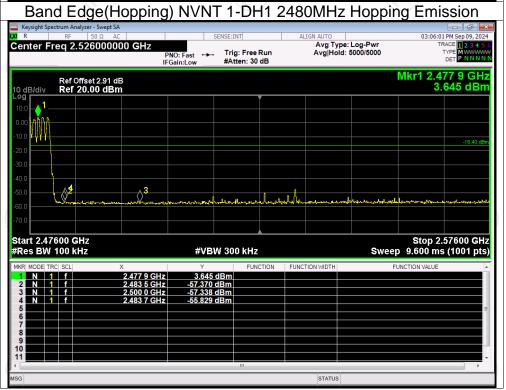








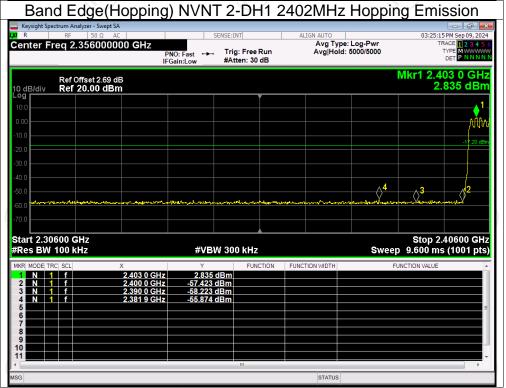








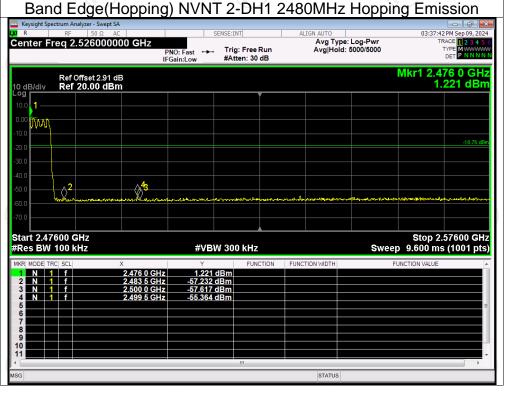






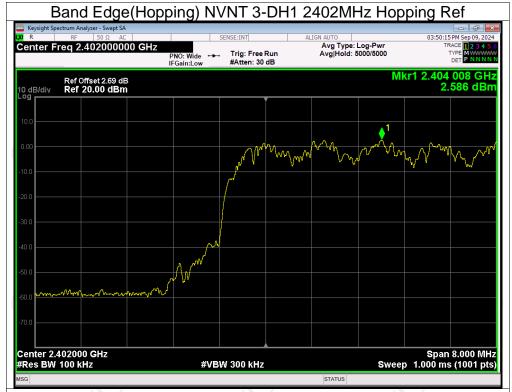


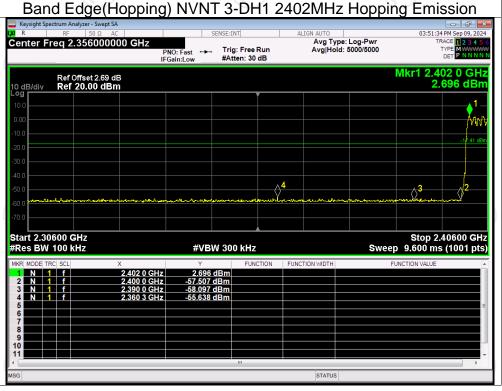








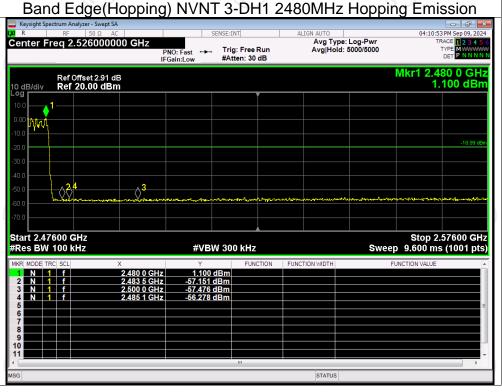














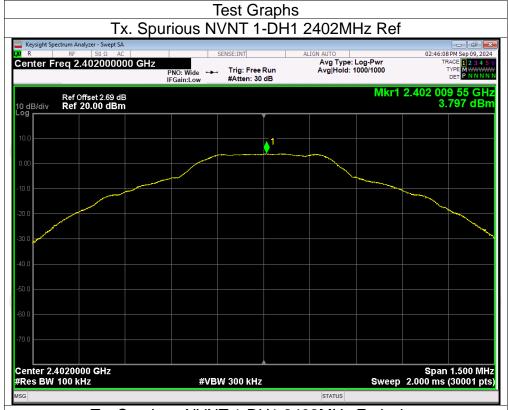
Conducted RF Spurious Emission

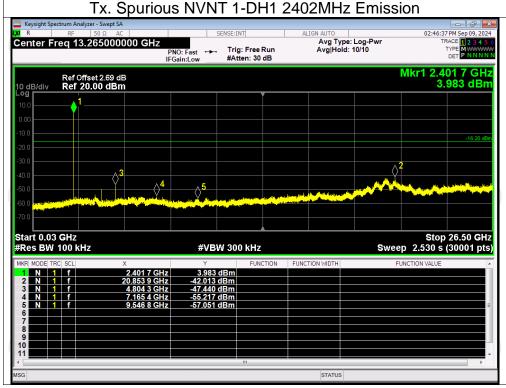
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-45.81	-20	Pass
NVNT	1-DH1	2441	-45.53	-20	Pass
NVNT	1-DH1	2480	-47.95	-20	Pass
NVNT	2-DH1	2402	-44.24	-20	Pass
NVNT	2-DH1	2441	-41.04	-20	Pass
NVNT	2-DH1	2480	-40.57	-20	Pass
NVNT	3-DH1	2402	-51.32	-20	Pass
NVNT	3-DH1	2441	-47.59	-20	Pass
NVNT	3-DH1	2480	-42.50	-20	Pass







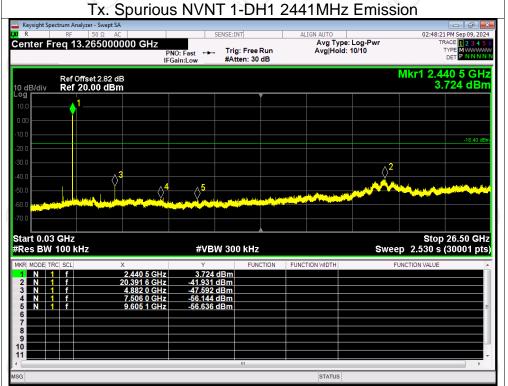






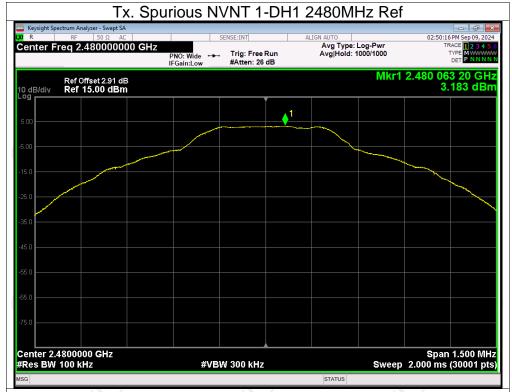


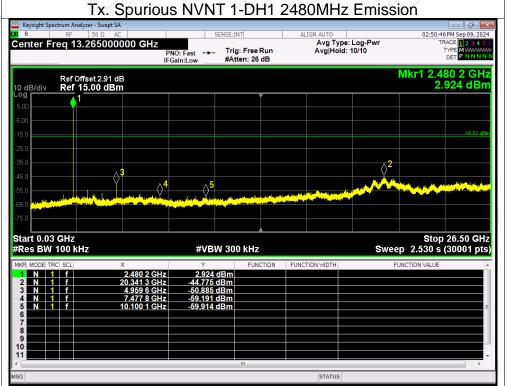






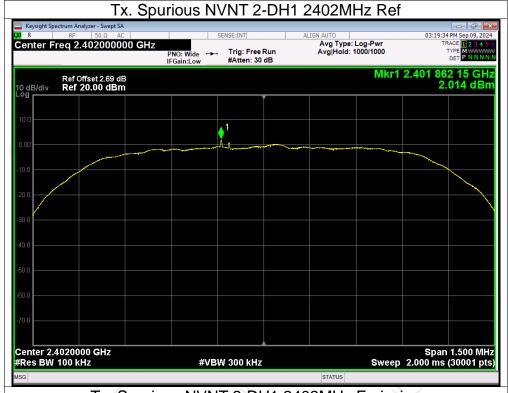


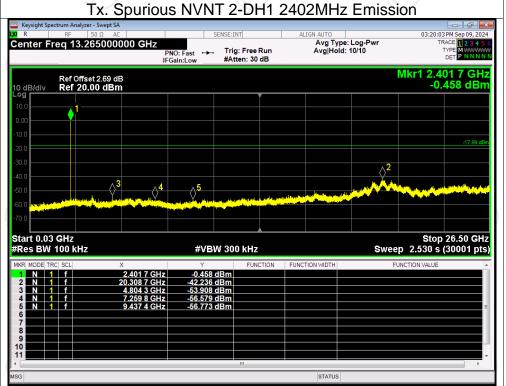






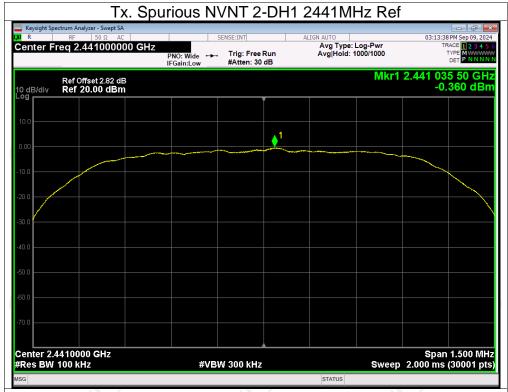


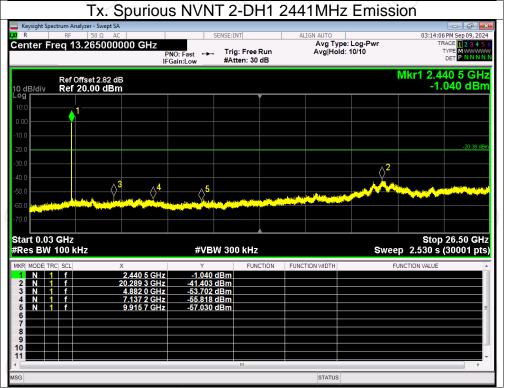






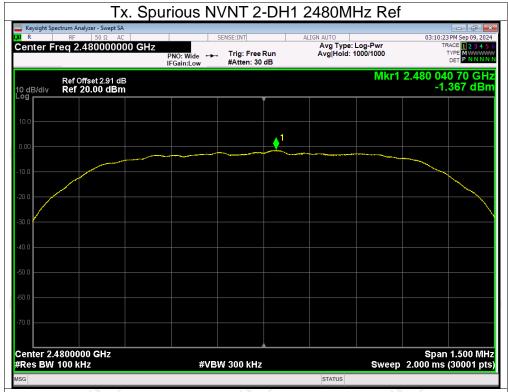


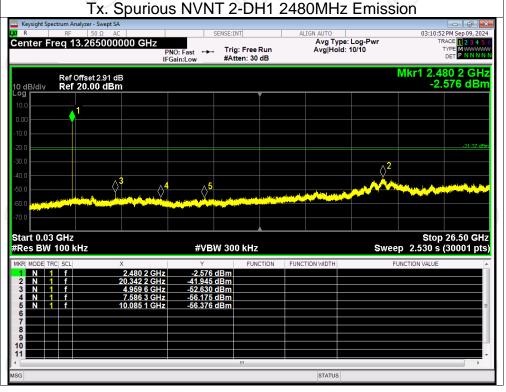






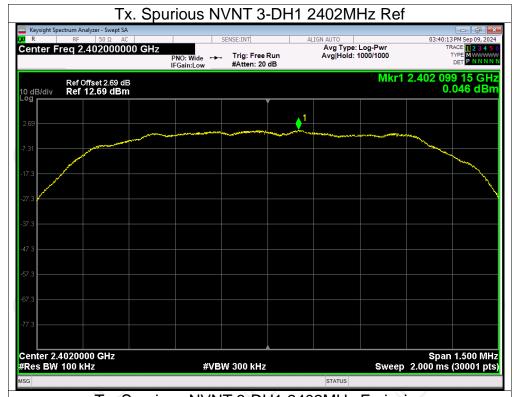


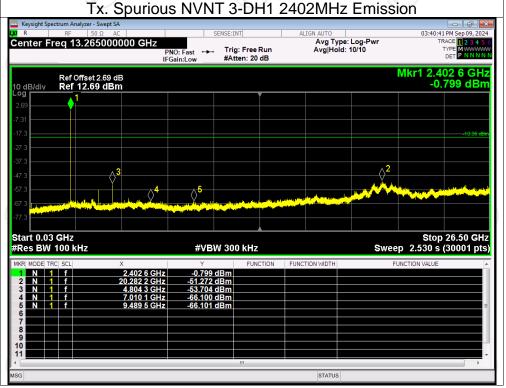






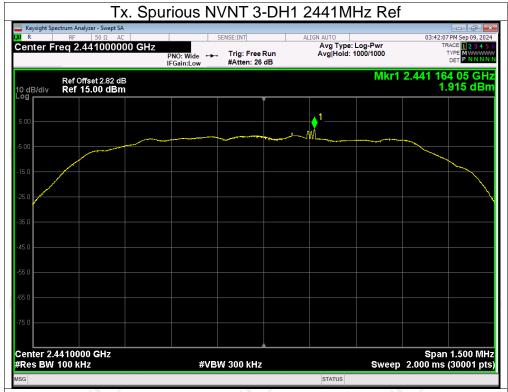


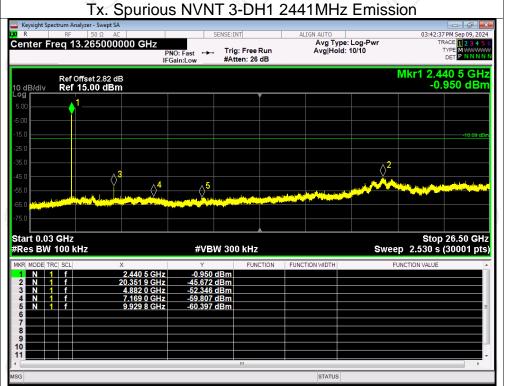








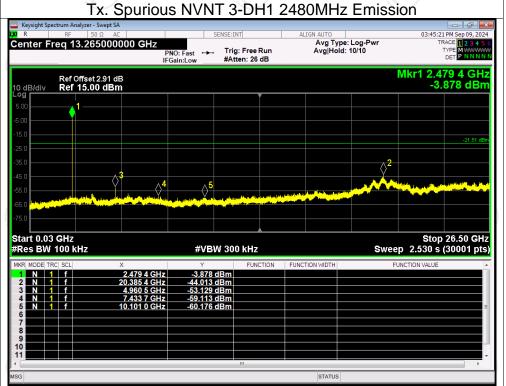








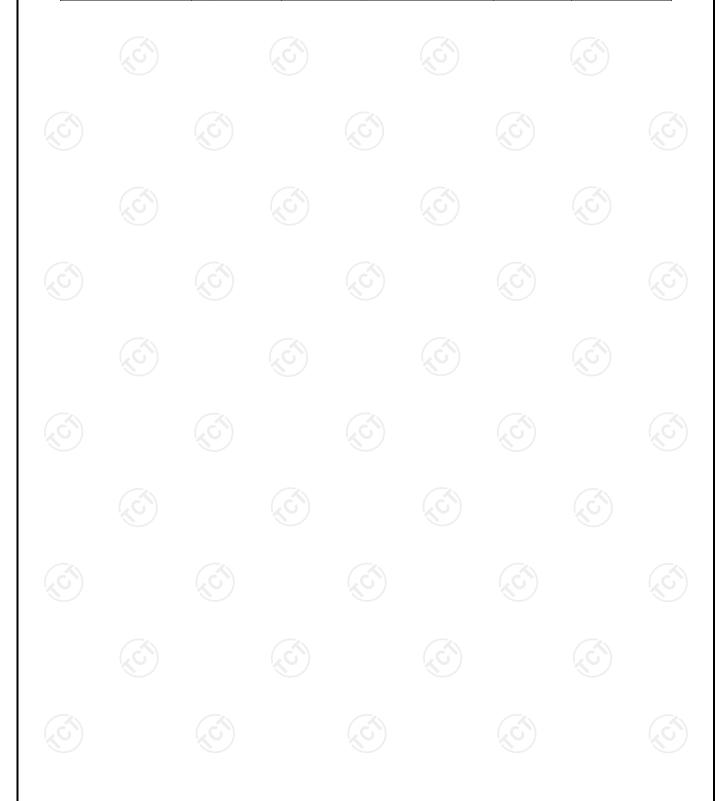






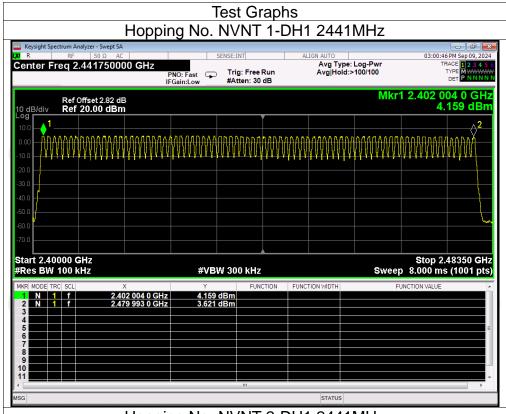
Number of Hopping Channel

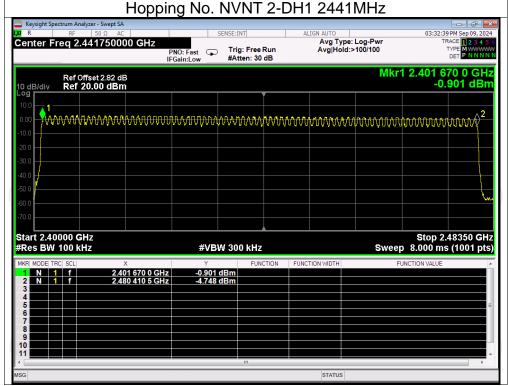
Condition	Mode	Hopping Number	Limit	Verdict						
NVNT	1-DH1	79	15	Pass						
NVNT	2-DH1	79	15	Pass						
NVNT	3-DH1	79	15	Pass						



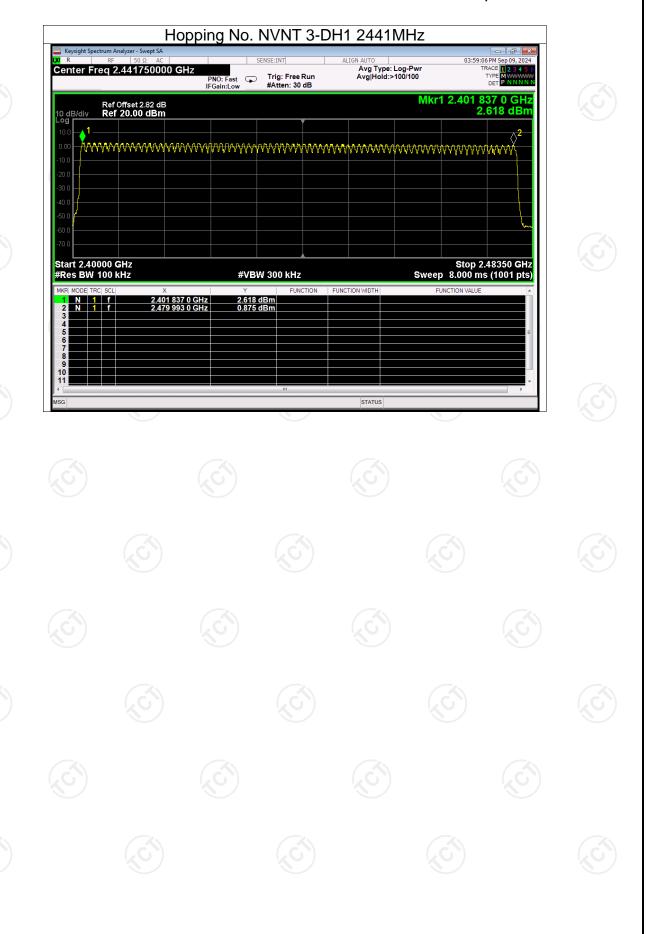














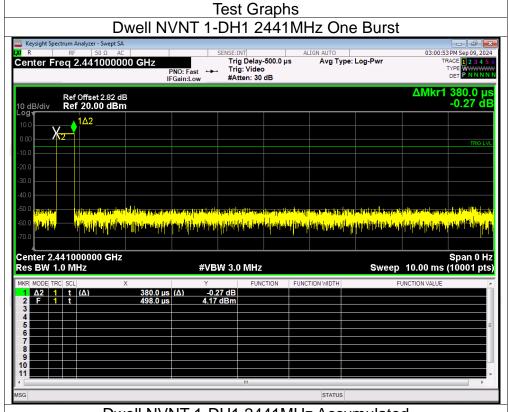
Dwell Time

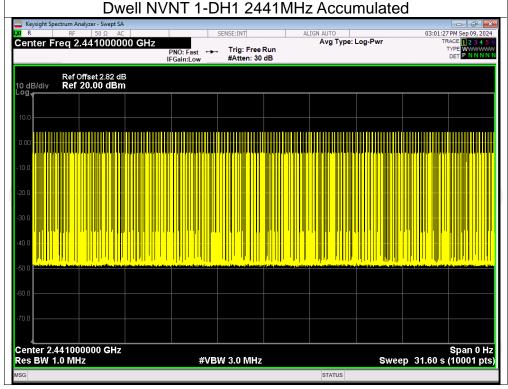
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict			
NVNT	1-DH1	2441	0.38	120.46	317	31600	400	Pass			
NVNT	1-DH3	2441	1.64	250.92	153	31600	400	Pass			
NVNT	1-DH5	2441	2.89	300.56	104	31600	400	Pass			
NVNT	2-DH1	2441	0.39	123.24	316	31600	400	Pass			
NVNT	2-DH3	2441	1.64	270.6	165	31600	400	Pass			
NVNT	2-DH5	2441	2.89	300.56	104	31600	400	Pass			
NVNT	3-DH1	2441	0.39	123.63	317	31600	400	Pass			
NVNT	3-DH3	2441	1.64	265.68	162	31600	400	Pass			
NVNT	3-DH5	2441	2.89	294.78	102	31600	400	Pass			





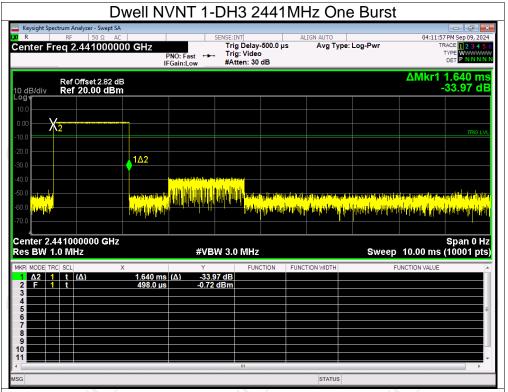


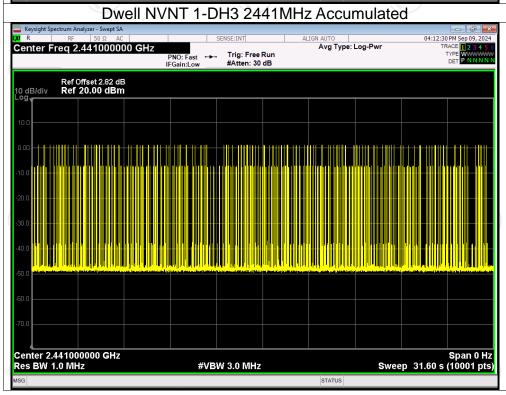






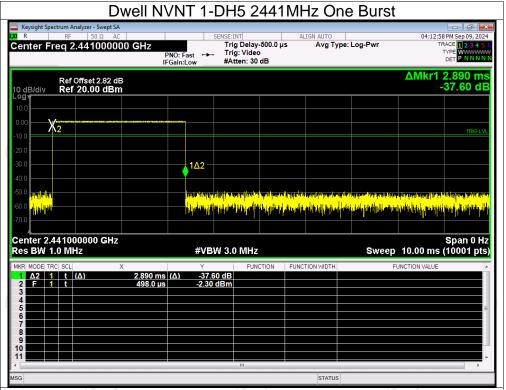


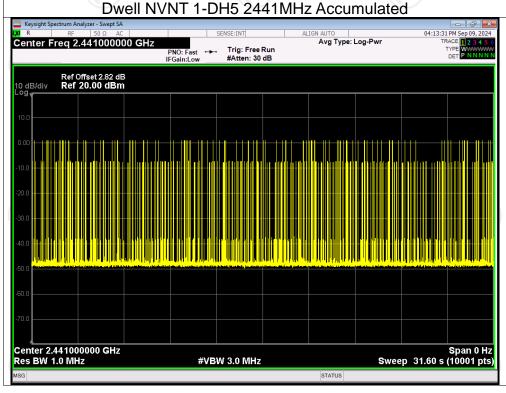






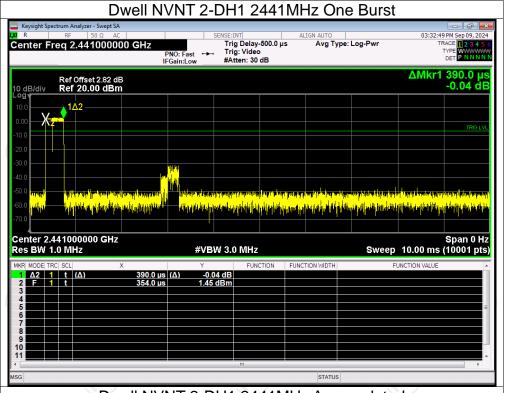


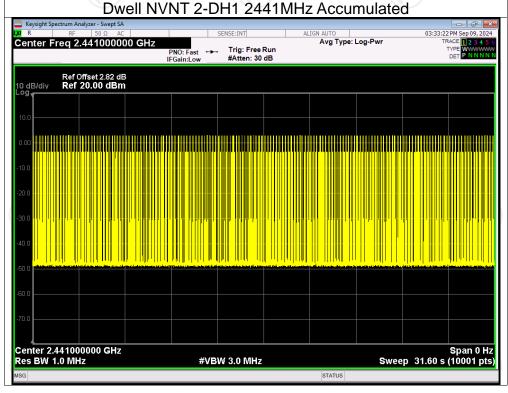






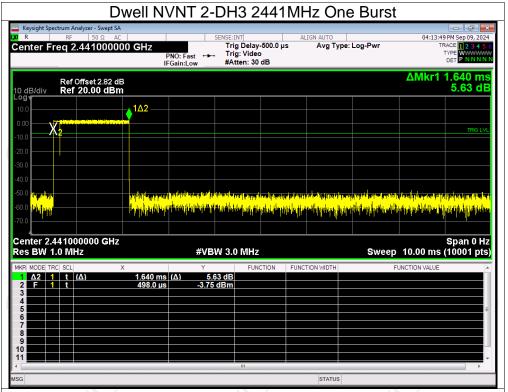


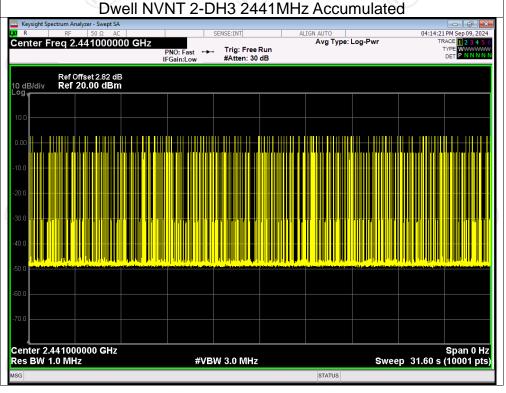






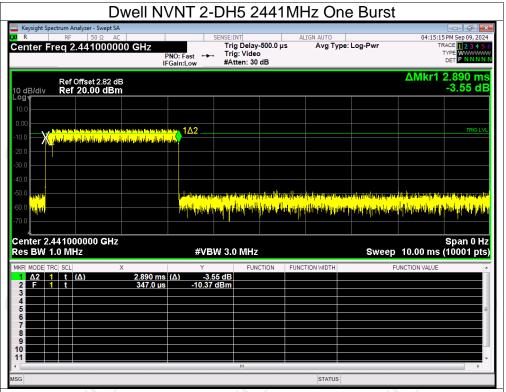


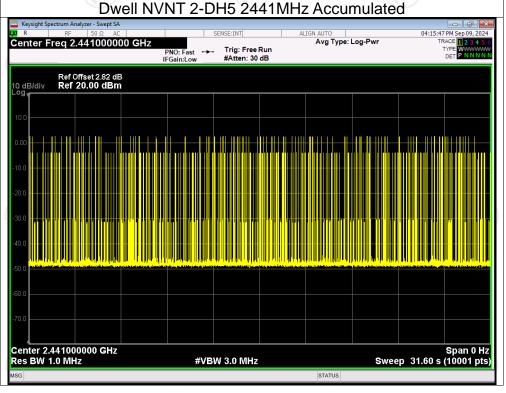






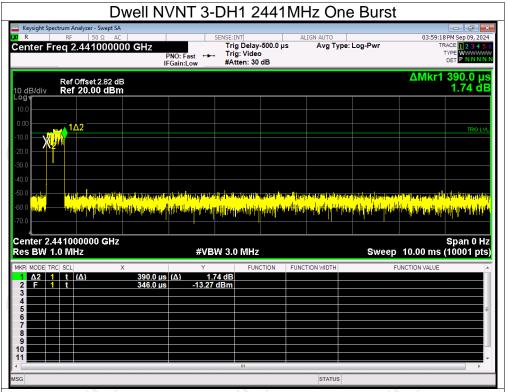


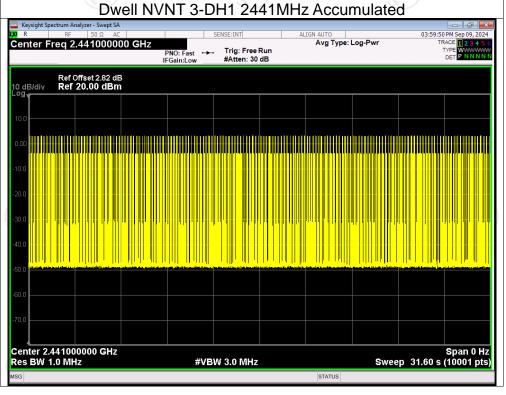






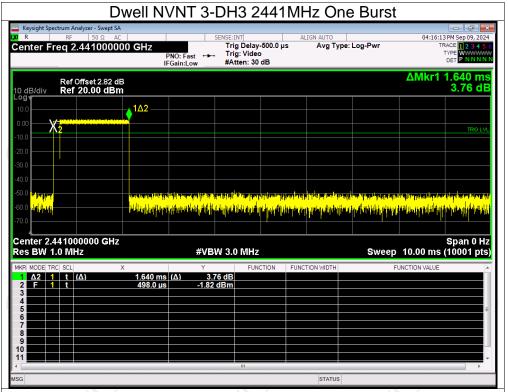


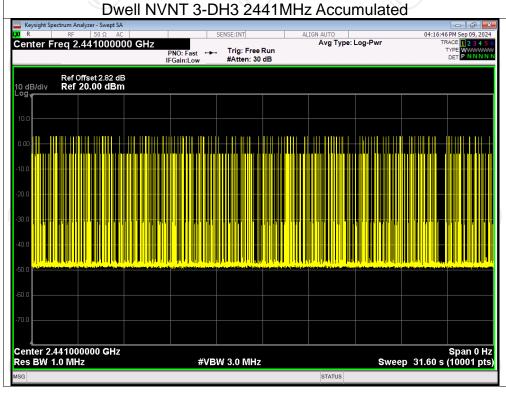






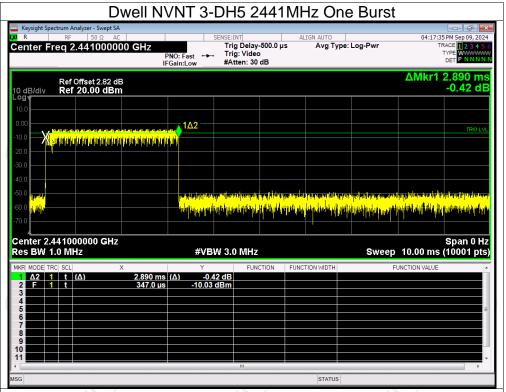


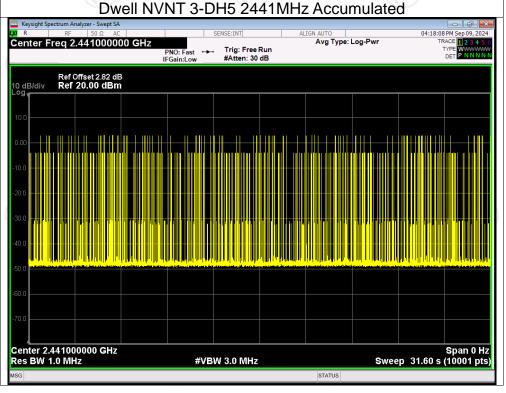














Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT240903E024-A.

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT240903E024-B & TCT240903E024-C.

