

	<b>TEST REPOR</b>	T				
FCC ID:	2AV7N-DED300					
Test Report No::	TCT241210E009					
Date of issue::	Dec. 20, 2024					
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB				
Testing location/ address:	2101 & 2201, Zhenchang Factor Subdistrict, Bao'an District, Sher People's Republic of China	ry Renshan Industrial Zone, Fuhai nzhen, Guangdong, 518103,				
Applicant's name::	GUANGZHOU RANTION TECH	NOLOGY CO., LTD.				
Address::	Room 7002 and 7003,7th Floor, Park, Greater Bay Area, No.28 Huangpu District, Guangzhou, C	Huangpu Park West Road,				
Manufacturer's name:	GUANGZHOU RANTION TECH	NOLOGY CO., LTD.				
Address::	Room 7002 and 7003,7th Floor, Park, Greater Bay Area, No.28 Huangpu District, Guangzhou, C FCC CFR Title 47 Part 15 Subpa	Huangpu Park West Road, China art C Section 15.247				
Standard(s):	FCC KDB 558074 D01 15.247 N ANSI C63.10:2020	Meas Guidance v05r02				
Product Name::	Electronic Drum					
Trade Mark:	DONNER					
Model/Type reference:	DED-300X, DED-300, DED-300 DED-300 Pro	Lite, DED-300 Max,				
Rating(s):	Adapter Information: Model No.: GQ24-090200-DX Input: AC 100-240V, 50/60Hz, 1. Output: DC 9.0V, 2.0A, 18.0W	0A Max				
Date of receipt of test item:	Dec. 10, 2024					
Date (s) of performance of test:	Dec. 10, 2024 ~ Dec. 20, 2024					
Tested by (+signature) :	Onnado YE	Onrado JANGCE				
Check by (+signature):	Beryl ZHAO	Boyl 2 TCT				
Approved by (+signature):	Tomsin					

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# 1. General Product Information

# 1.1. EUT description

Product Name:	Electronic Drum		(51)
Model/Type reference:	DED-300X		
Sample Number:	TCT241210E009-0101		
Bluetooth Version:	V5.0 (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:	PCB Antenna		
Antenna Gain:	2.81dBi		(0)
Rating(s)::	Adapter Information: Model No.: GQ24-090200-DX Input: AC 100-240V, 50/60Hz, 1.0A Max Output: DC 9.0V, 2.0A, 18.0W		

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

# 1.2. Model(s) list

No.	Model No.	Tested with
1 (	DED-300X	
Other models	DED-300, DED-300 Lite, DED-300 Max, DED-300 Pro	

Note: DED-300X 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 DED-300X can represent the remaining models.



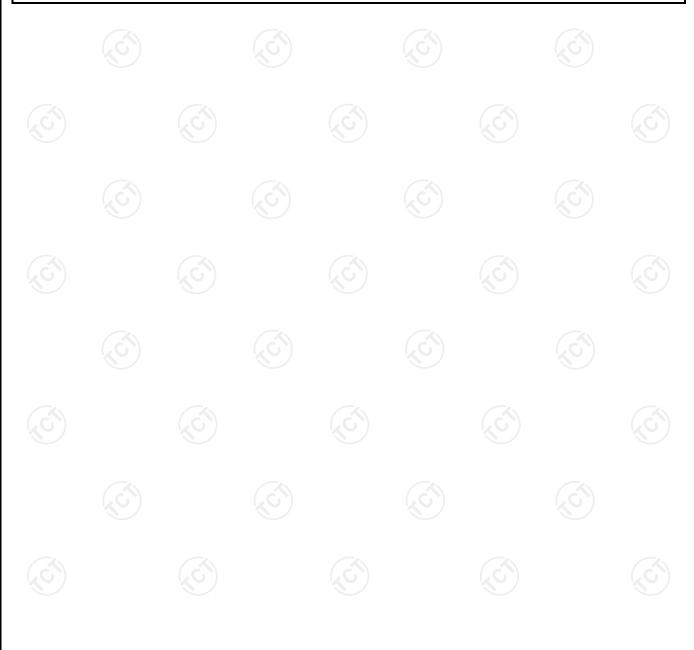
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# 1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
(C1)	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		- (4)

Remark: Channel 0, 39 & 78 have been tested for GFSK, π/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:	22.8 °C	21.4 °C				
Humidity:	49 % RH	51 % RH				
Atmospheric Pressure:	1010 mbar	1010 mbar				
Test Software:						
Software Information:	FrequencyTool_v0.3.2					
Power Level:	Default					
Test Mode:						
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	/

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 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 ± 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

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### 5. Test Results and Measurement Data

# 5.1. Antenna requirement

### Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

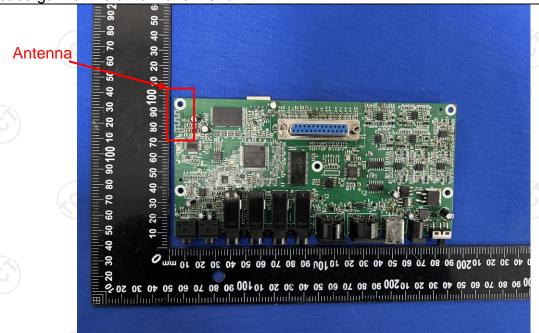
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PCB antenna which permanently attached, and the best case gain of the antenna is 2.81dBi.





### 5.2. Conducted Emission

# 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2020						
Frequency Range:	150 kHz to 30 MHz						
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				
	Reference	e Plane					
Test Setup:	Remark E.U.T AC power  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Transmitting Mode						
Test Procedure:	<ol> <li>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.</li> <li>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).</li> <li>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.</li> </ol>						
Test Result:	PASS						



### 5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025					
LISN	Schwarzbeck NSLK 812	NSLK 8126	8126453	Jan. 31, 2025					
Attenuator	N/A	10dB	164080	Jun. 26, 2025					
Line-5	TCT	CE-05	/	Jun. 26, 2025					
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1 60					



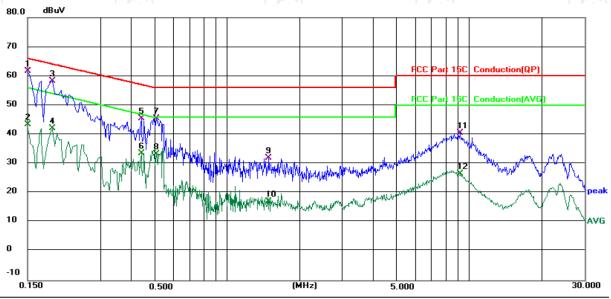


5.2.3. Test data

### Report No.: TCT241210E009

### 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: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: 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	*	0.1500	52.05	9.67	61.72	66.00	-4.28	QP	
2		0.1500	33.85	9.67	43.52	56.00	-12.48	AVG	
3		0.1900	48.63	9.65	58.28	64.04	-5.76	QP	
4		0.1900	32.42	9.65	42.07	54.04	-11.97	AVG	
5		0.4420	35.31	10.10	45.41	57.02	-11.61	QP	
6		0.4420	23.44	10.10	33.54	47.02	-13.48	AVG	
7		0.5100	35.23	10.18	45.41	56.00	-10.59	QP	
8		0.5100	23.08	10.18	33.26	46.00	-12.74	AVG	
9		1.4900	22.21	9.79	32.00	56.00	-24.00	QP	
10		1.4900	7.27	9.79	17.06	46.00	-28.94	AVG	
11		9.2339	30.20	10.31	40.51	60.00	-19.49	QP	
12		9.2339	16.34	10.31	26.65	50.00	-23.35	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)

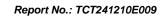
 $Limit (dB\mu V) = Limit stated in standard$ 

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

Q.P. =Quasi-Peak

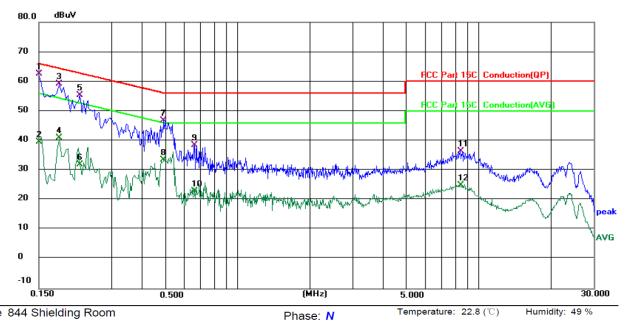
AVG =average

<sup>\*</sup> 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: 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	*	0.1500	52.94	9.65	62.59	66.00	-3.41	QP	
2		0.1500	29.91	9.65	39.56	56.00	-16.44	AVG	
3		0.1819	49.52	9.64	59.16	64.40	-5.24	QP	
4		0.1819	31.26	9.64	40.90	54.40	-13.50	AVG	
5		0.2220	45.69	9.63	55.32	62.74	-7.42	QP	
6		0.2220	22.36	9.63	31.99	52.74	-20.75	AVG	
7		0.4939	36.73	10.14	46.87	56.10	-9.23	QP	
8		0.4939	23.42	10.14	33.56	46.10	-12.54	AVG	
9		0.6620	28.19	10.32	38.51	56.00	-17.49	QP	
10		0.6620	12.75	10.32	23.07	46.00	-22.93	AVG	
11		8.4019	26.17	10.26	36.43	60.00	-23.57	QP	
12		8.4019	14.64	10.26	24.90	50.00	-25.10	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 (Middle channel and GFSK) 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	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		<i>(</i> )

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# 5.4. 20dB Occupy Bandwidth

# 5.4.1. Test Specification

Test Requirement: FCC Part15 C Section			' (a)(1)	/C
Test Method:	KDB 558074 D	001 v05r02		
Limit:	N/A			
Test Setup:	Spectrum Analyze	ſ	EUT	
Test Mode:	Transmitting mode with modulation			
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20d 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 = mandold.     </li> </ol>			was neasurement. I enable the ettings for 20dB e 20 dB annel; n; VBW≥3RBW;
Test Result:	PASS		(0)	60

# 5.4.2. Test Instruments

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





# 5.5. Carrier Frequencies Separation

# 5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
Test Setup:	Spectrum Analyzer EUT
Tool Mode	
Test Mode:	Hopping mode
Test Procedure:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.</li> </ol>
Test Result:	PASS

### 5.5.2. Test Instruments

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

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# **5.6.** Hopping Channel Number

# 5.6.1. Test Specification

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

### 5.6.2. Test Instruments

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

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### 5.7. Dwell Time

# 5.7.1. Test Specification

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

### 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		(6)

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### 5.8. Pseudorandom Frequency Hopping Sequence

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

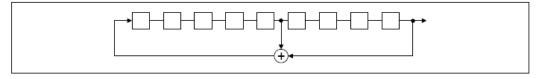
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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**

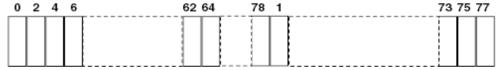
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized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

<u> </u>	
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS (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	7	

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# **5.10. Conducted Spurious Emission Measurement**

# 5.10.1. Test Specification

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

### 5.10.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		(6)

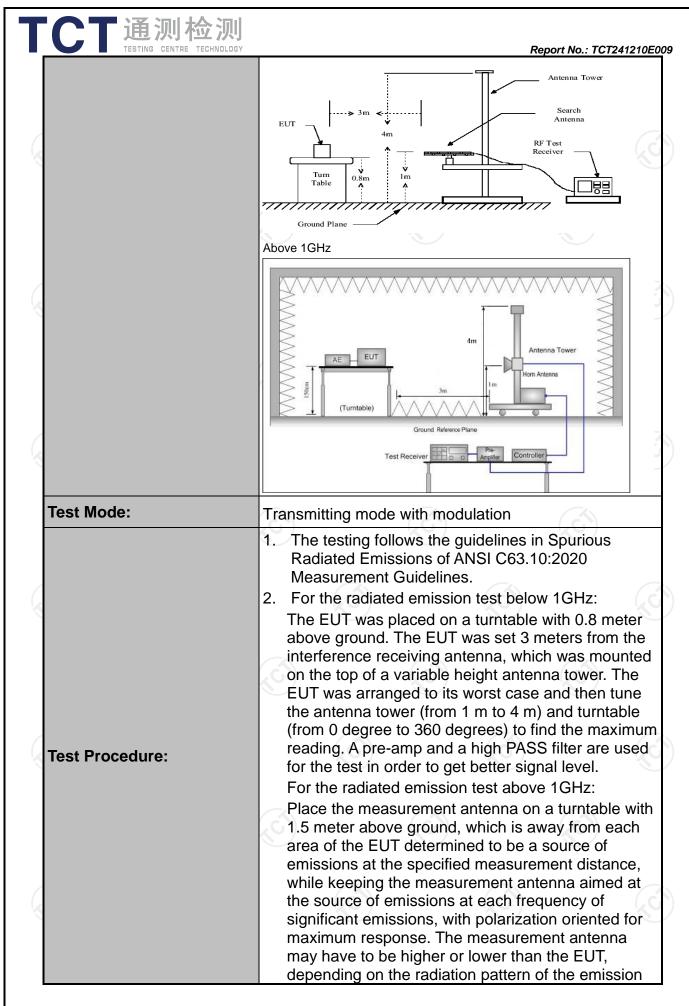
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# **5.11. Radiated Spurious Emission Measurement**

# 5.11.1. Test Specification

Test Requirement:	FCC Part15	C Section	n 1	5.209			1/C		
Test Method:	ANSI C63.10	:2020							
Frequency Range:	9 kHz to 25 C	SHz							
Measurement Distance:	3 m		9			1/2	)		
Antenna Polarization:	Horizontal &	Vertical							
	Frequency	Detecto	or	RBW	VBW		Remark		
	9kHz- 150kHz	Quasi-pe	eak	200Hz	1kHz	1	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-pe	eak	9kHz	30kHz		Quasi-peak Value		
	30MHz-1GHz	Quasi-pe	eak	120KHz	300KHz	2	Quasi-peak Value		
	Above 1GHz	Peak Peak		1MHz 1MHz	3MHz 10Hz		Peak Value verage Value		
	Frequenc	су	(1	Field Stre		Measurement Distance (meters)			
	0.009-0.4	,	2400/F(K	,		300			
	0.490-1.7			24000/F(k	(Hz)	30			
	1.705-3 30-88	0		30 100		30			
	88-216			150			3		
Limit:	216-960			200			3		
	Above 96	60		500		3			
	(-c						(c		
	Frequency		Field Strer (microvolts/n		Measure Distan (meter	се	Detector		
	Above 1GHz		50	00	3		Average		
	Above 1G112		50	00	3		Peak		
	For radiated emis	sions belo	w 30I	MHz					
	Dis	tance = 3m				Comm	atar		
	†	Computer Pre -Amplifier							
Test setup:	C.Sm EUT	Turn table		1m	. [_R	eceiver			
	30MHz to 1GHz	Grou	ind Plan	ne Control			Ĉ		



<b>「</b> 一 正 通 测 检 测	
TESTING CENTRE TECHNOLOGY	Report No.: TCT241210E009
	and staying aimed at the emission source for 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 EUT transmit continuously.
	<ul> <li>4. Use the following spectrum analyzer settings: <ol> <li>Span shall wide enough to fully capture the emission being measured;</li> <li>Set RBW=120 kHz for f &lt; 1 GHz, RBW=1MHz for f&gt;1GHz; VBW≥RBW;</li> <li>Sweep = auto; Detector function = peak; Trace</li> </ol> </li></ul>
	<ul> <li>= max hold for peak</li> <li>(3) For average measurement: use duty cycle correction factor method per</li> <li>15.35(c). Duty cycle = On time/100 milliseconds</li> <li>On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln</li> <li>Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.</li> <li>Average Emission Level = Peak Emission</li> <li>Level + 20*log(Duty cycle)</li> </ul>
	Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
Test results:	PASS (A)

Fax: 86-755-27673332

Tel: 86-755-27673339

Hotline: 400-6611-140

http://www.tct-lab.com





# 5.11.2. Test Instruments

	Radiated Em	nission Test Site	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	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 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	1	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	) /	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D		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	1	(C)
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	

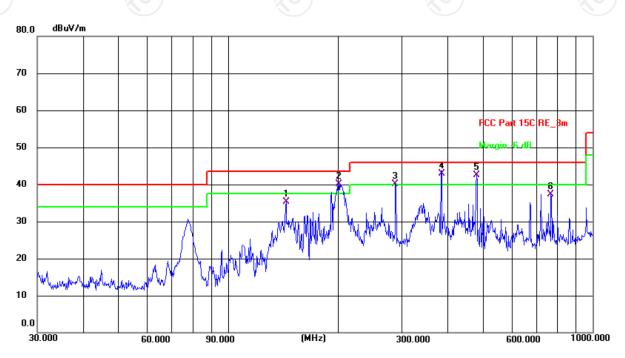


### 5.11.3. Test Data

### Please refer to following diagram for individual

**Below 1GHz** 

Horizontal:



Site 3m Anechoic Chamber2 Polarization: Horizontal Temperature: 21.4(C) Humidity: 51 %

Power: AC 120 V/60 Hz

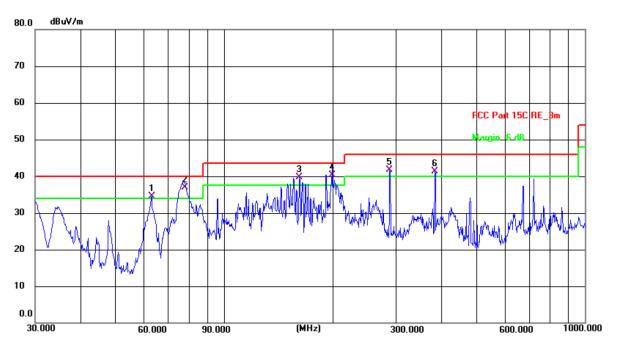
Limit: FCC Part 15C RE\_3m

			_							ı
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	144.3347	53.15	-17.80	35.35	43.50	-8.15	QP	Р	
	2!	200.6880	61.43	-21.31	40.12	43.50	-3.38	QP	Р	
	3 !	287.9904	57.69	-17.54	40.15	46.00	-5.85	QP	Р	
Ī	4 *	385.2804	58.29	-15.29	43.00	46.00	-3.00	QP	Р	
Ī	5 !	480.5276	55.29	-12.69	42.60	46.00	-3.40	QP	Р	
Ī	6	768.7481	44.69	-7.38	37.31	46.00	-8.69	QP	Р	





### Vertical:



Site 3m Anechoic Chamber2 Polarization: Vertical Temperature: 21.4(C) Humidity: 51 %

Limit: FCC Part 15C RE\_3m

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1!	63.0916	53.62	-19.13	34.49	40.00	-5.51	QP	Р	
2 *	77.5927	58.56	-21.67	36.89	40.00	-3.11	QP	Р	
3 !	162.0413	57.12	-17.36	39.76	43.50	-3.74	QP	Р	
4!	199.9855	61.57	-21.32	40.25	43.50	-3.25	QP	Р	
5!	287.9904	59.15	-17.54	41.61	46.00	-4.39	QP	Р	
6!	383.9318	56.73	-15.34	41.39	46.00	-4.61	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 (Middle channel and GFSK) 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.

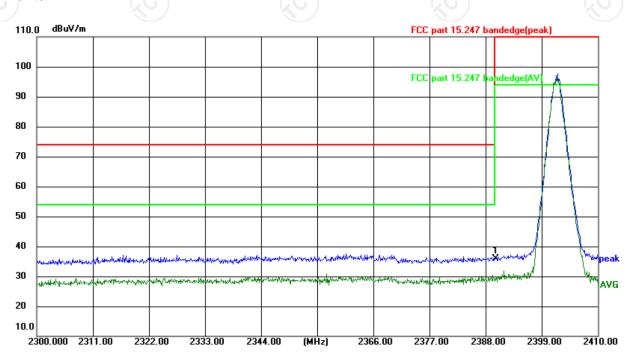
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### Test Result of Radiated Spurious at Band edges

### Lowest channel 2402:

Horizontal:



Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.5(°C) Humidity: 40 %

Limit: FCC part 15.247 bandedge(peak)

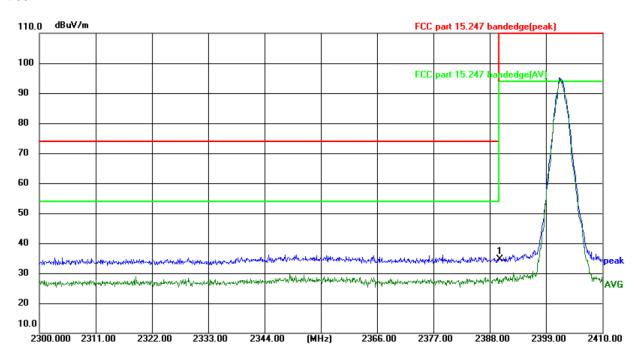
Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	52.48	-16.70	35.78	74.00	-38.22	peak	Р	





### Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 40 %

Limit: FCC part 15.247 bandedge(peak)

	'		<b>5</b> (1 /						
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390 000	51 31	-16 70	34 61	74 00	-39 39	neak	Р	

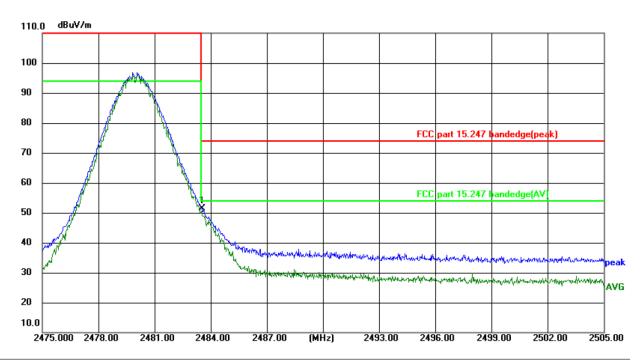
Power: AC 120 V/60 Hz





Highest channel 2480:

### Horizontal:



Site: 3m Anechoic Chamber

Polarization: Horizontal

Temperature: 23.5(°C)

Humidity: 40 %

Limit: FCC part 15.247 bandedge(peak)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	68.01	-16.65	51.36	74.00	-22.64	peak	Р	































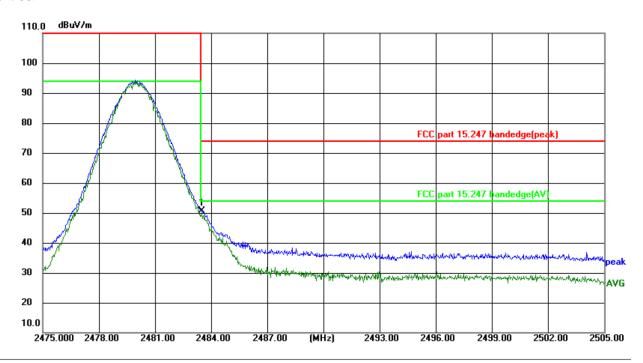








### Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 40 %

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	67.16	-16.65	50.51	74.00	-23.49	peak	Р	

Power: AC 120 V/60 Hz

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





### **Above 1GHz**

Modulation Type: GFSK										
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	55.22		-9.51	45.71		74	54	-8.29	
7206	Ι	45.90		-1.41	44.49		74	54	-9.51	
	Ŧ	-			-		-	7-74		
(	(G) $(G)$ $(G)$									
4804	V	55.02		-9.51	45.51	<u></u>	74	54	-8.49	
7206	V	45.68		-1.41	44.27		74	54	-9.73	
	V									

Middle channel: 2441 MHz			(20)				/C		
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)
4882	Н	54.22		-9.36	44.86	-	74	54	-9.14
7323	(OH)	44.74		-1.14	43.60	‡ )	74	54	-10.40
	H					<u> </u>			
4882	V	55.04		-9.36	45.68		74	54	-8.32
7323	V	44.72		-1.14	43.58		74	54	-10.42
)	V				/		/		

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	Η	54.07	)	-9.20	44.87	1	74	54	-9.13
7440	Ι	45.63		-0.96	44.67		74	54	-9.33
	Η	<i>-</i>							
		(.c)		(, 0			(G)		(, Č
4960	V	54.39		-9.20	45.19		74	54	-8.81
7440	V	44.04		-0.96	43.08		74	54	-10.92
	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 (GFSK) was submitted only.
- 7. All the restriction bands are compliance with the limit of 15.209.

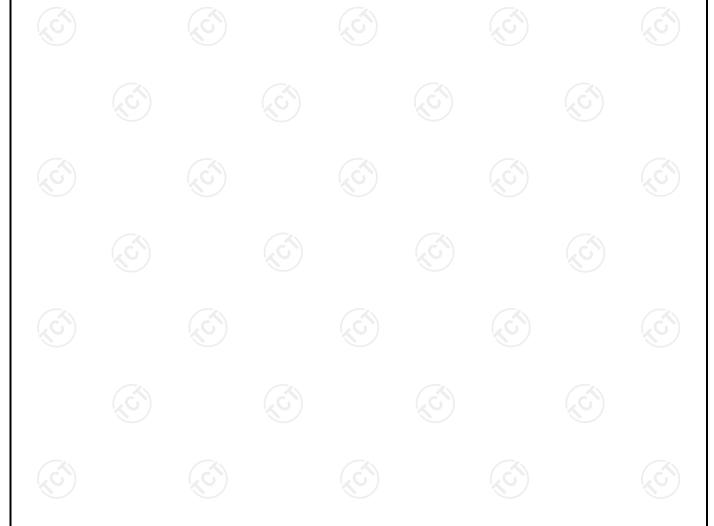


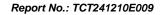


# **Appendix A: Test Result of Conducted Test**

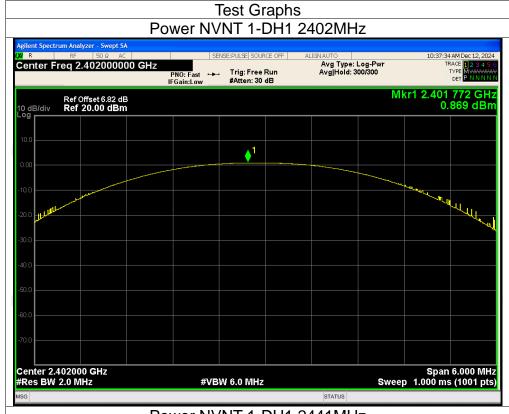
Maximum Conduct	ed Output Power
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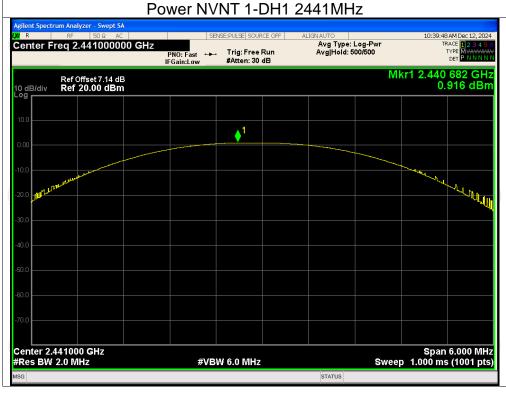
	The state of the s								
Condition Mode		Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict				
NVNT	1-DH1	2402	0.87	21	Pass				
NVNT	1-DH1	2441	0.92	21	Pass				
NVNT	1-DH1	2480	-1.85	21	Pass				
NVNT	2-DH1	2402	0.04	21	Pass				
NVNT	2-DH1	2441	0.87	21	Pass				
NVNT	2-DH1	2480	-1.91	21	Pass				
NVNT	3-DH1	2402	0.48	21	Pass				
NVNT	3-DH1	2441	-0.15	21	Pass				
NVNT	3-DH1	2480	-2.90	21	Pass				

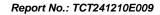






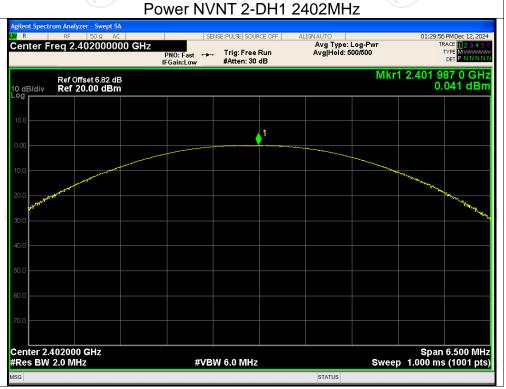
















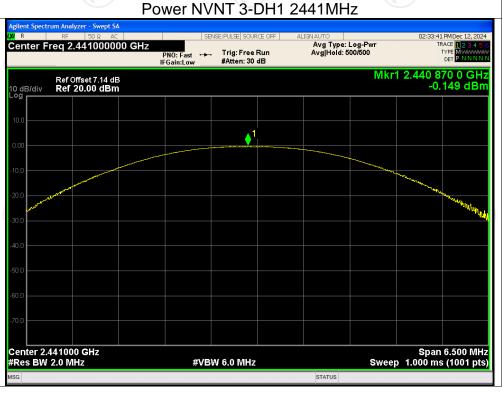


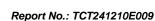
# 



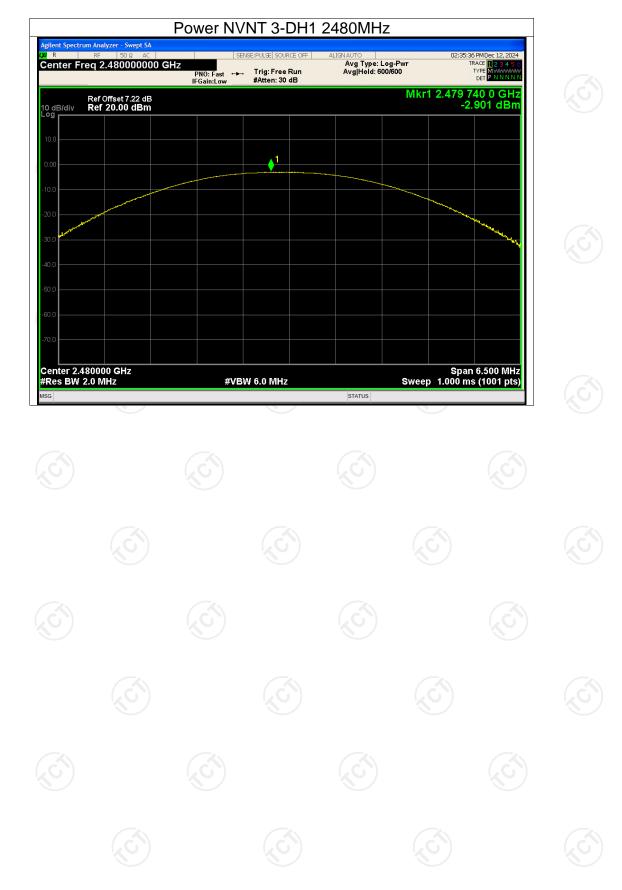














## -20dB Bandwidth

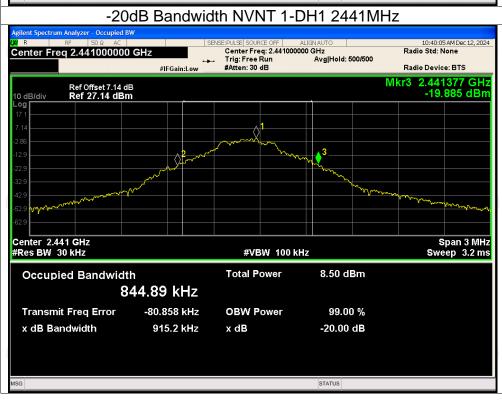
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.943	Pass
NVNT	1-DH1	2441	0.915	Pass
NVNT	1-DH1	2480	1.017	Pass
NVNT	2-DH1	2402	1.268	Pass
NVNT	2-DH1/	2441	1.284	Pass
NVNT	2-DH1	2480	1.282	Pass
NVNT	3-DH1	2402	1.263	Pass
NVNT	3-DH1	2441	1.293	Pass
NVNT	3-DH1	2480	1.312	Pass













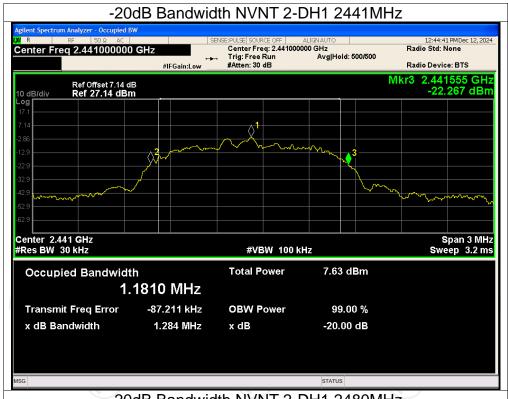








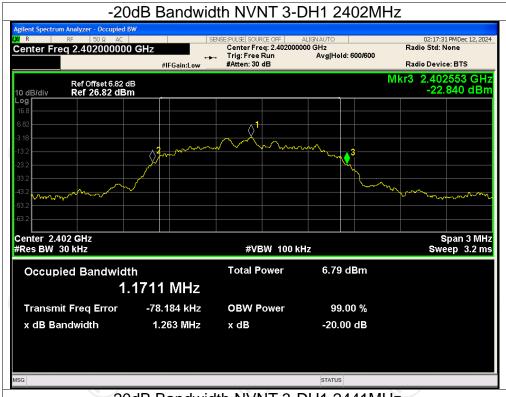




## -20dB Bandwidth NVNT 2-DH1 2480MHz 12:37:05 PMDec 12, 2024 Radio Std: None Center Freq 2.480000000 GHz #IFGain:Low Radio Device: BTS Mkr3 2.480551 GHz -24.807 dBm Center 2.48 GHz #Res BW 30 kHz Span 3 MHz Sweep 3.2 ms #VBW 100 kHz Total Power 4.71 dBm Occupied Bandwidth 1.1769 MHz Transmit Freq Error -89.929 kHz **OBW Power** 99.00 % -20.00 dB x dB Bandwidth 1.282 MHz x dB STATUS



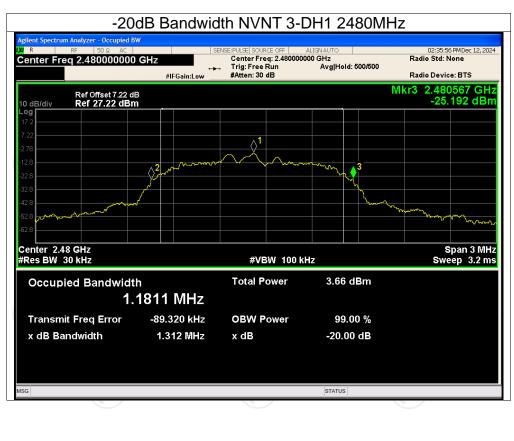
















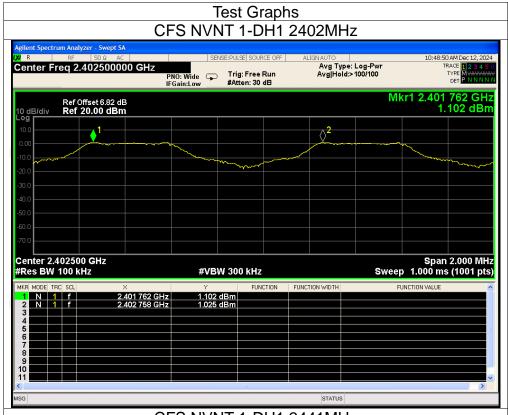
**Carrier Frequencies Separation** 

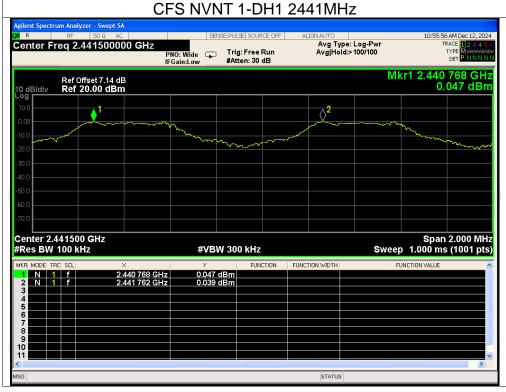
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.762	2402.758	0.996	0.678	Pass
NVNT	1-DH1	2440.768	2441.762	0.994	0.678	Pass
NVNT	1-DH1	2478.914	2479.911	0.997	0.678	Pass
NVNT	2-DH1	2401.764	2402.764	1	0.856	Pass
NVNT	2-DH1	2440.758	2441.760	1.002	0.856	Pass
NVNT	2-DH1	2478.754	2479.756	1.002	0.856	Pass
NVNT	3-DH1	2401.764	2402.768	1.004	0.875	Pass
NVNT	3-DH1	2440.760	2441.760	1	0.875	Pass
NVNT	3-DH1	2478.754	2479.754	1	0.875	Pass

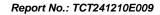






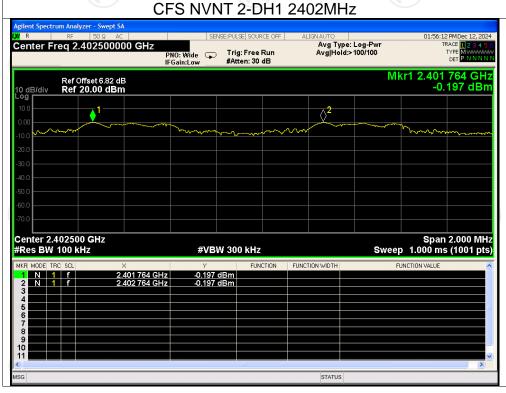


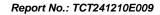




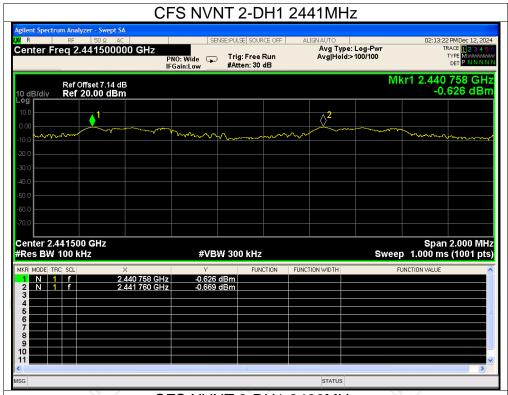








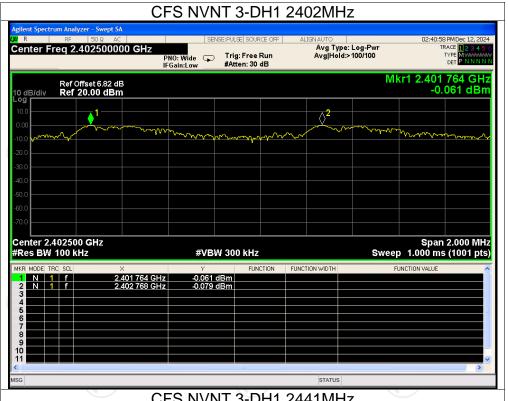


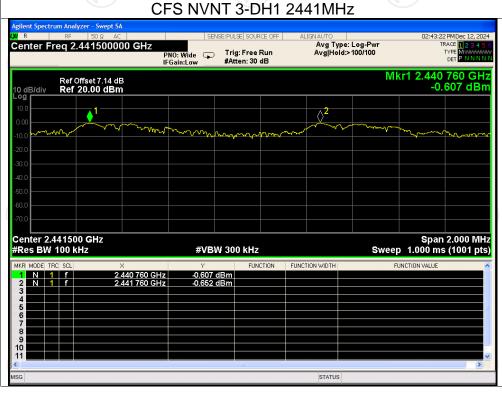






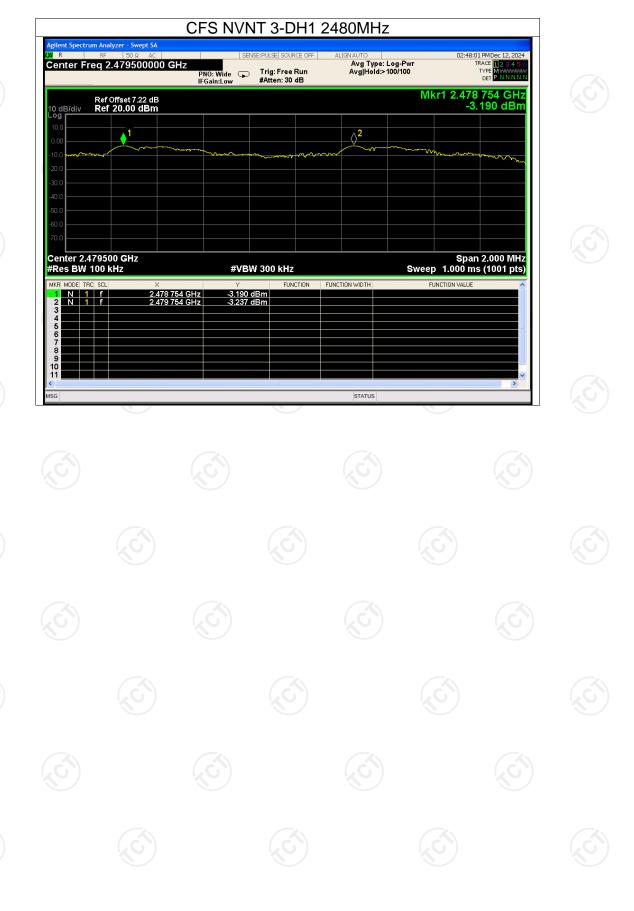








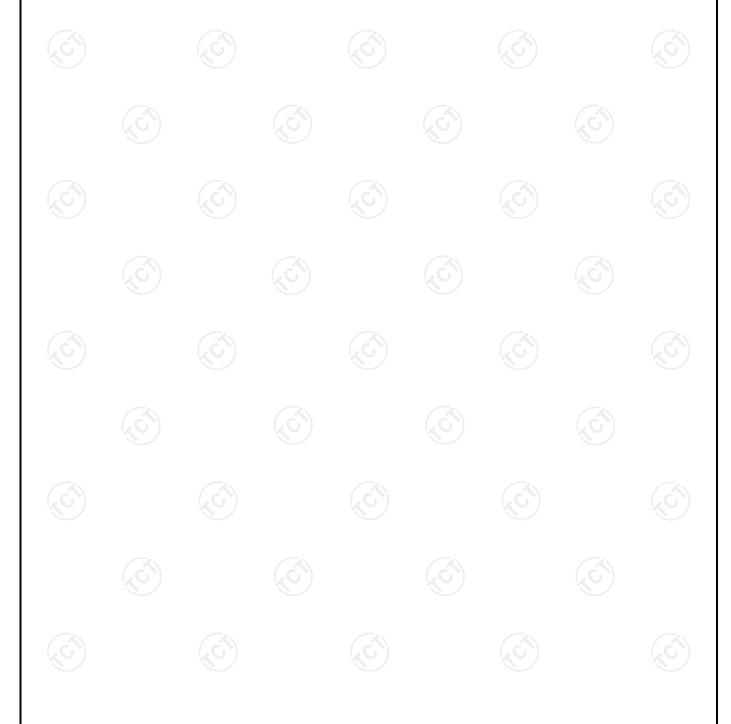






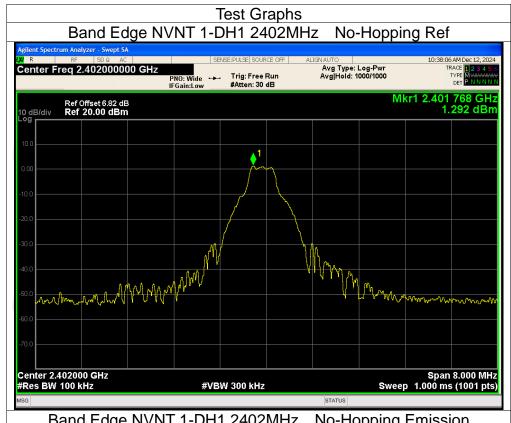
**Band Edge** 

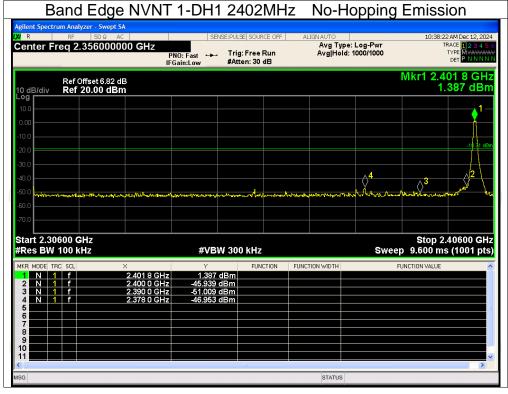
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-48.24	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-47.69	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-48.66	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-47.57	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-50.21	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-47.25	-20	Pass







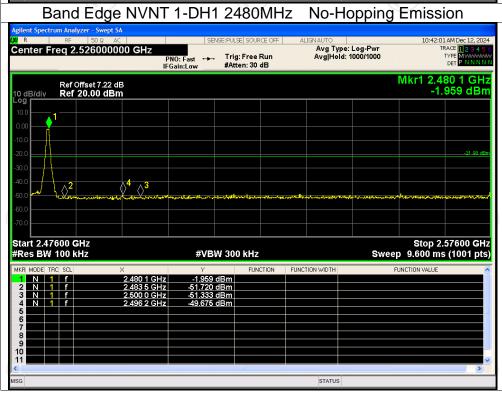








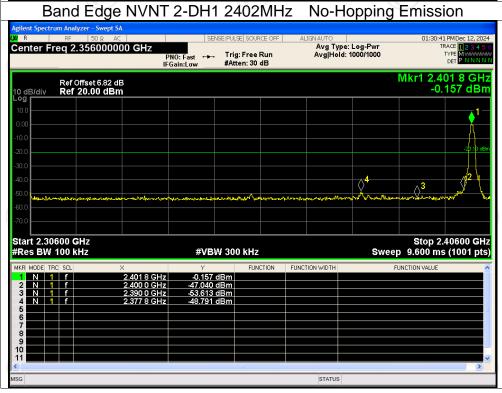








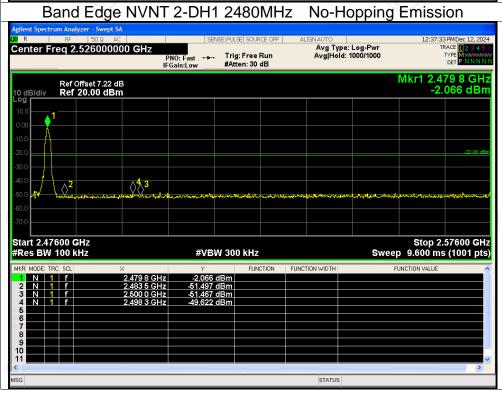






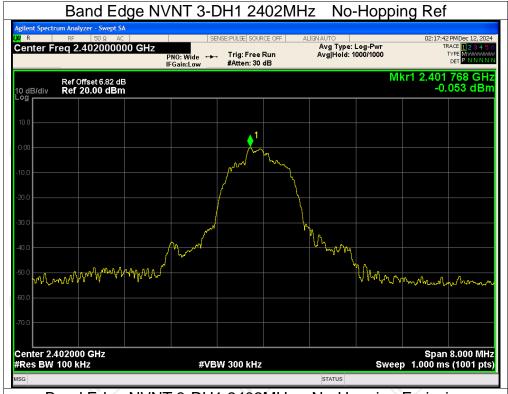


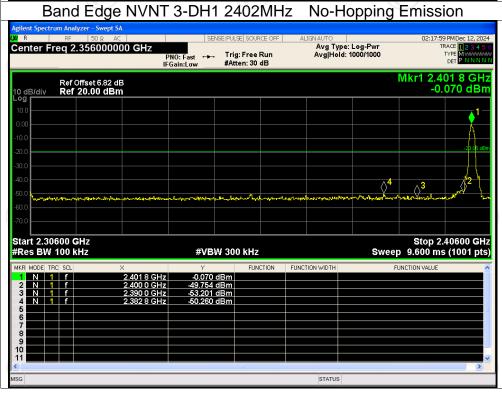






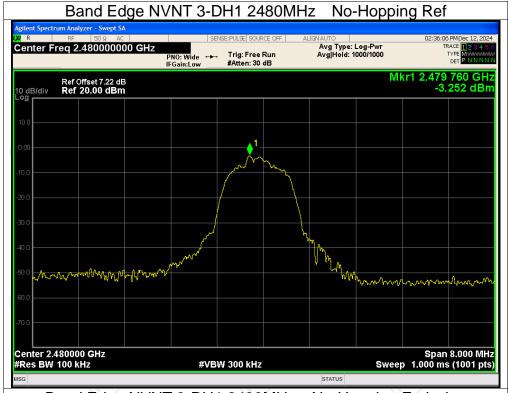


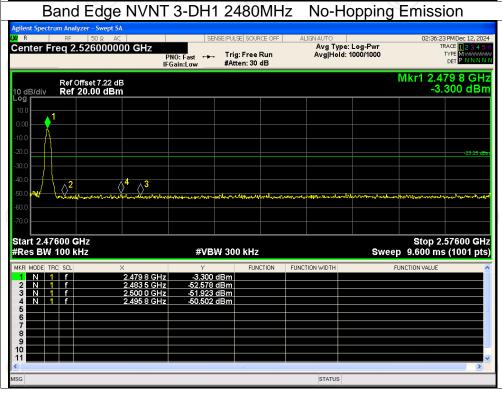








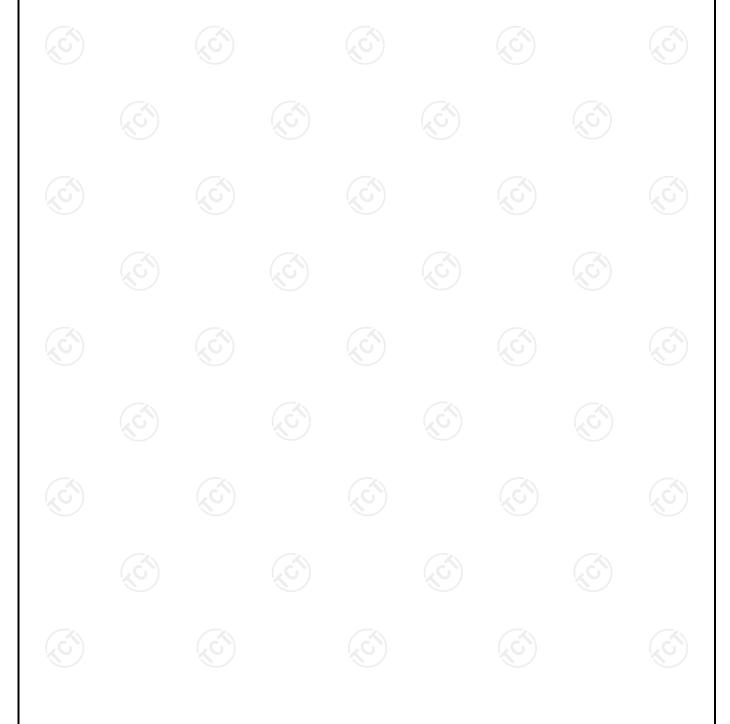






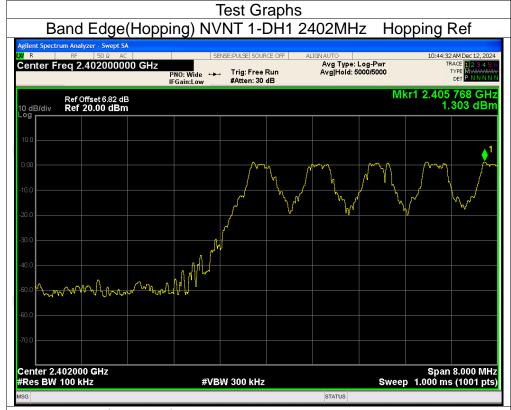
**Band Edge(Hopping)** 

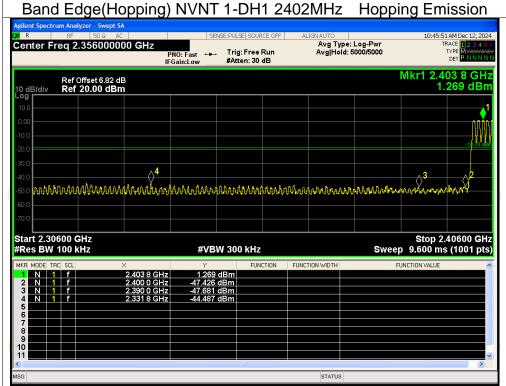
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-45.78	-20	Pass
NVNT	1-DH1	2480	Hopping	-42.83	-20	Pass
NVNT	2-DH1	2402	Hopping	-46.93	-20	Pass
NVNT	2-DH1	2480	Hopping	-44.36	-20	Pass
NVNT	3-DH1	2402	Hopping	-46.22	-20	Pass
NVNT	3-DH1	2480	Hopping	-43.68	-20	Pass





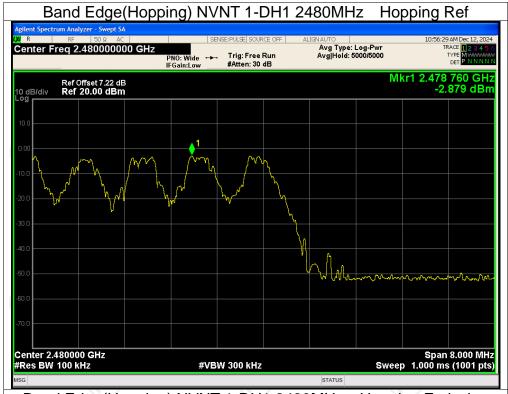


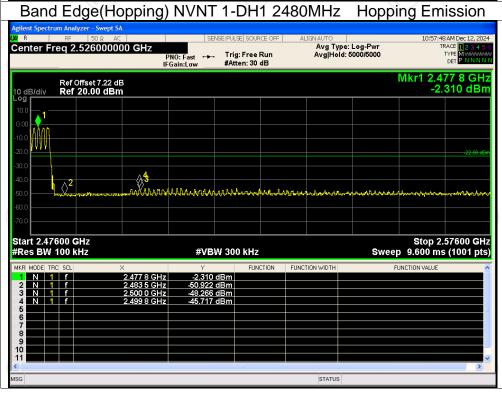








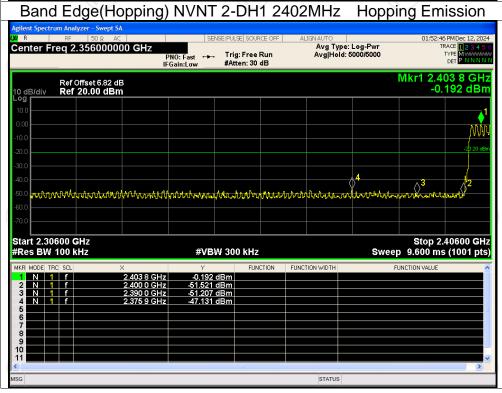








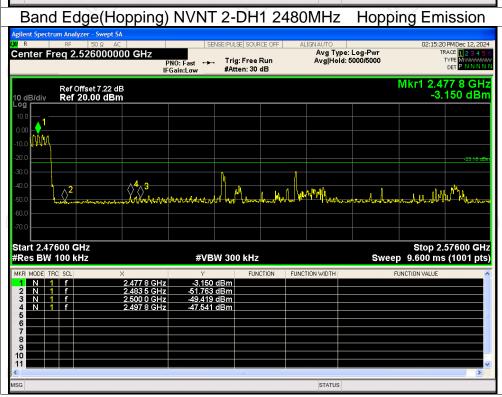








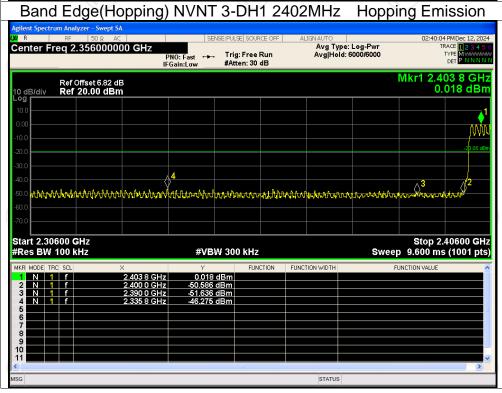








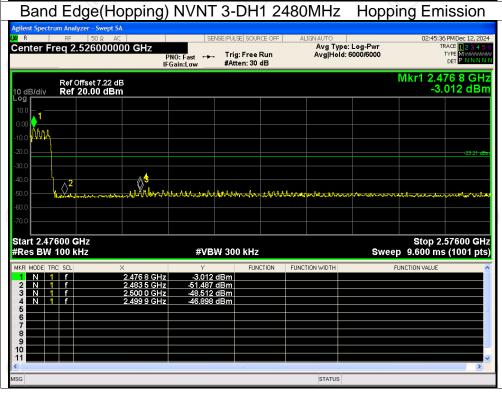








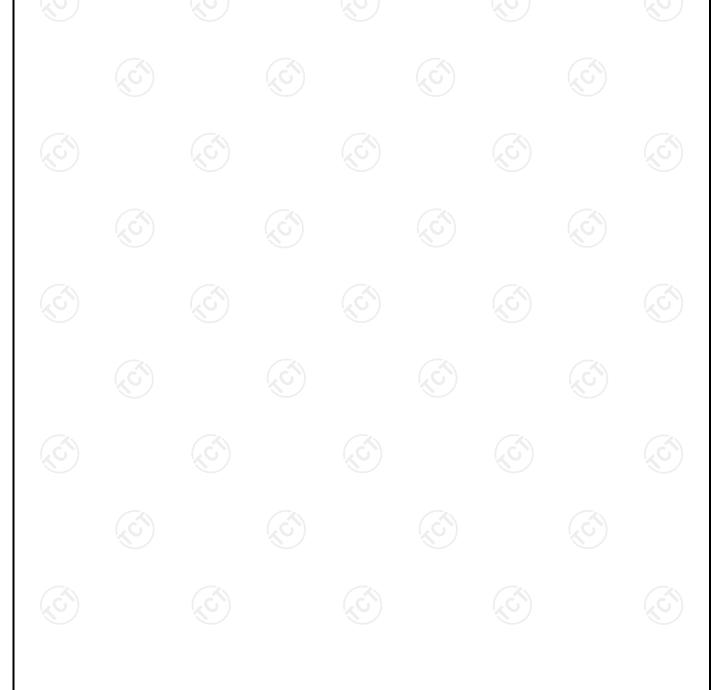


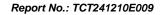




**Conducted RF Spurious Emission** 

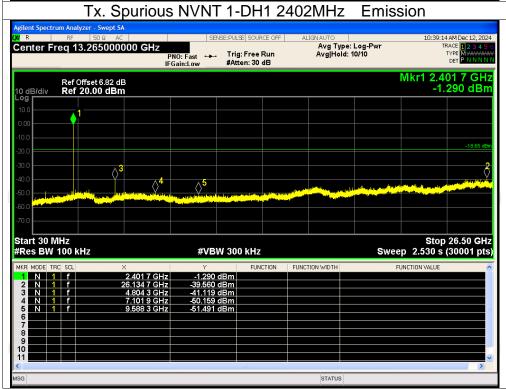
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-40.91	-20	Pass
NVNT	1-DH1	2441	-36.94	-20	Pass
NVNT	1-DH1	2480	-37.71	-20	Pass
NVNT	2-DH1	2402	-37.32	-20	Pass
NVNT	2-DH1	2441	-38.59	-20	Pass
NVNT	2-DH1	2480	-37.88	-20	Pass
NVNT	3-DH1	2402	-32.57	-20	Pass
NVNT	3-DH1	2441	-37.34	-20	Pass
NVNT	3-DH1	2480	-36.96	-20	Pass

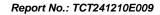






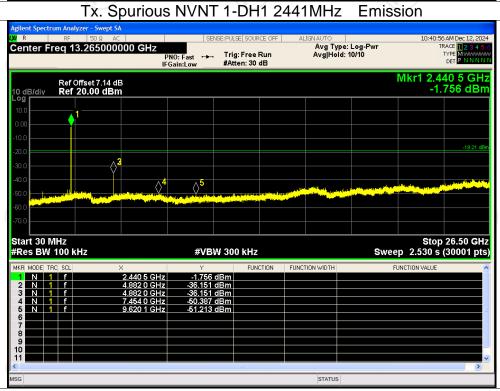


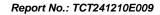






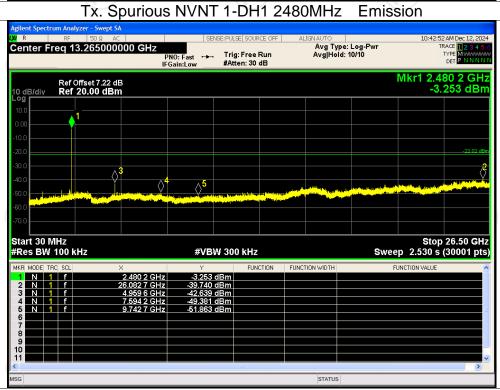


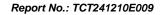






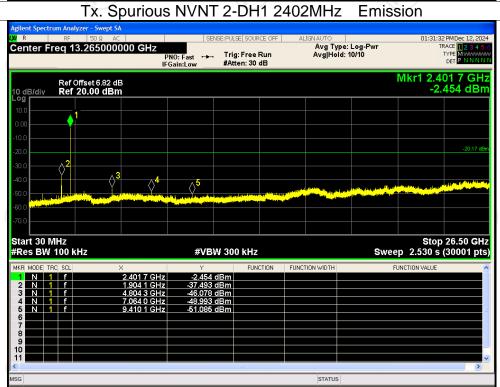








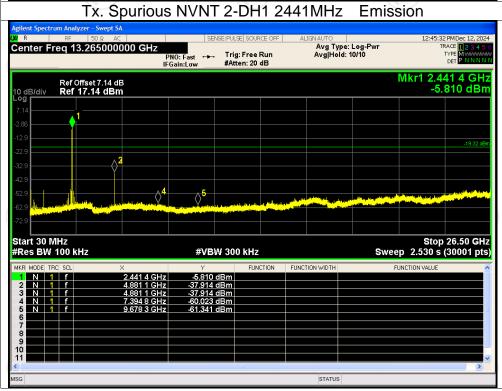


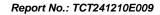




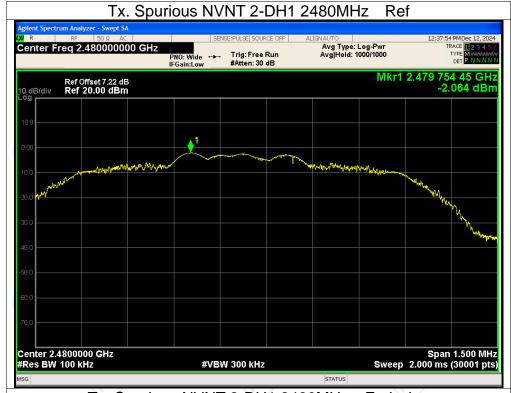


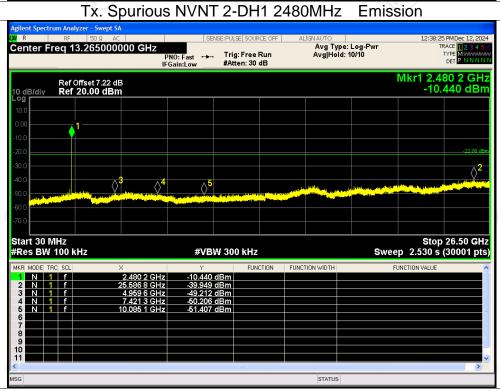


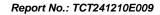






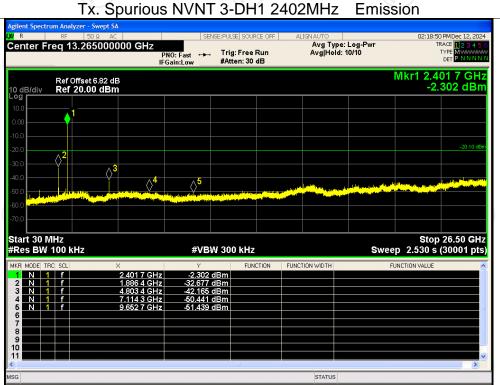








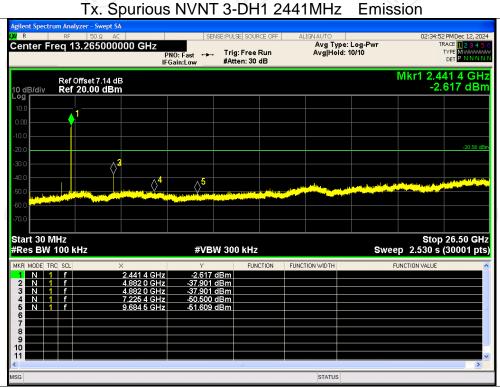


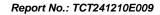






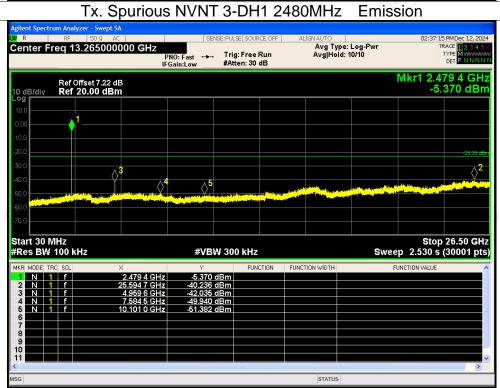














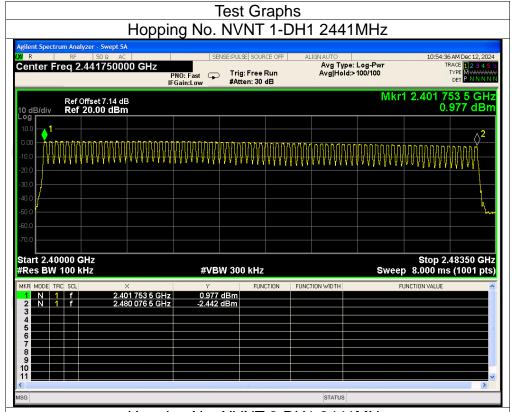
Report No.: TCT241210E009

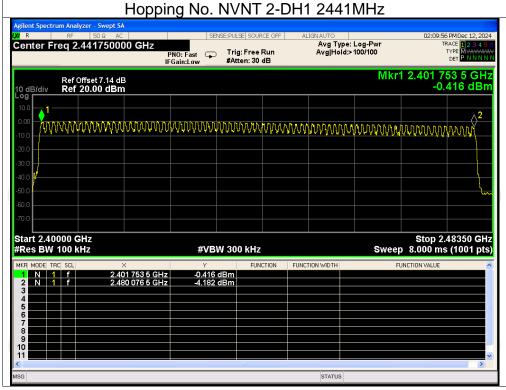
**Number of Hopping Channel** 

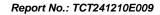
Condition Mode		Hopping Number	Limit	Verdict	
NVNT	1-DH1	79	15	Pass	
NVNT	2-DH1	79	15	Pass	
NVNT	3-DH1	79	15	Pass	



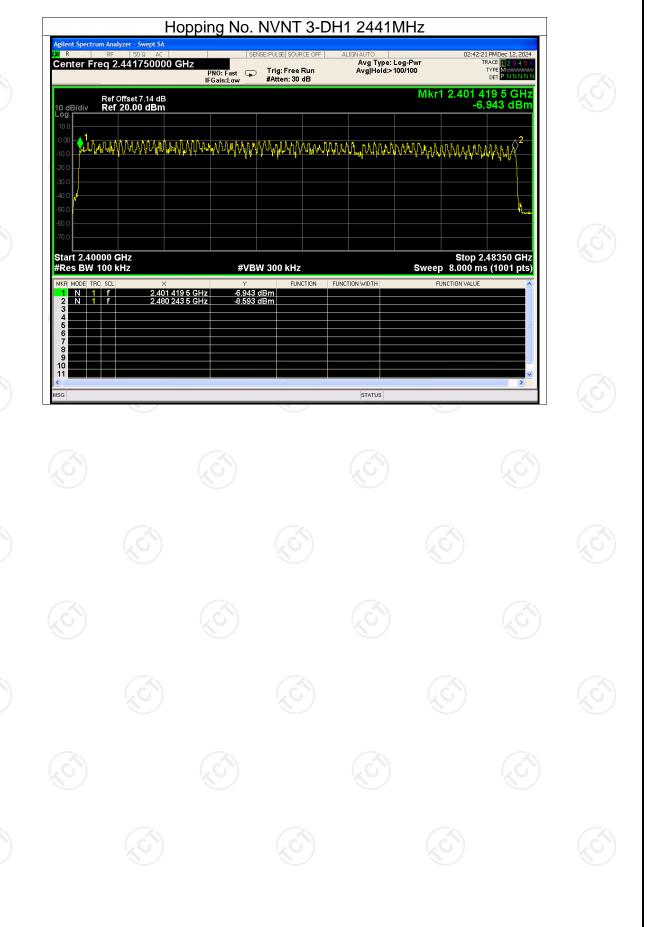














Report No.: TCT241210E009

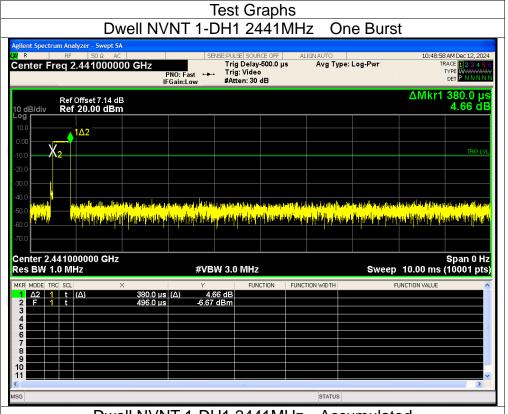
#### **Dwell Time**

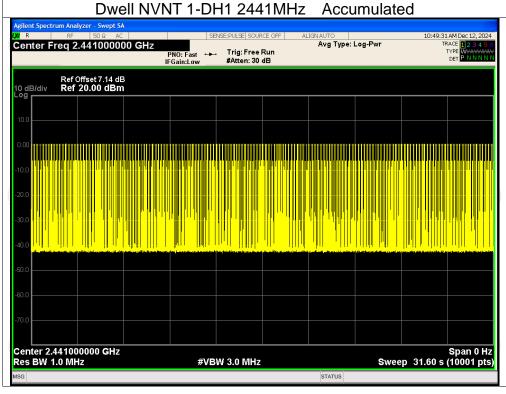
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.38	120.46	317	31600	400	Pass
NVNT	1-DH3	2441	1.64	264.04	161	31600	400	Pass
NVNT	1-DH5	2441	2.89	297.67	103	31600	400	Pass
NVNT	2-DH1	2441	0.39	122.85	315	31600	400	Pass
NVNT	2-DH3	2441	1.64	260.76	159	31600	400	Pass
NVNT	2-DH5	2441	2.89	289	100	31600	400	Pass
NVNT	3-DH1	2441	0.39	123.24	316	31600	400	Pass
NVNT	3-DH3	2441	1.64	262.40	160	31600	400	Pass
NVNT	3-DH5	2441	2.89	283.22	98	31600	400	Pass





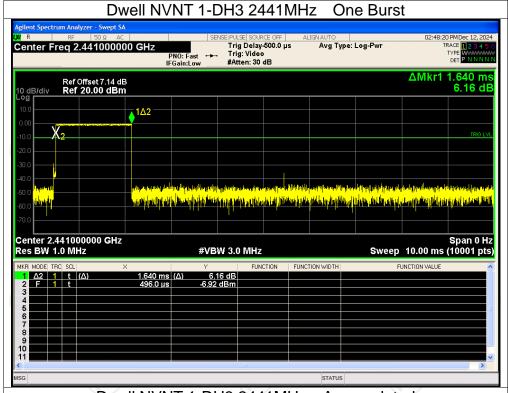


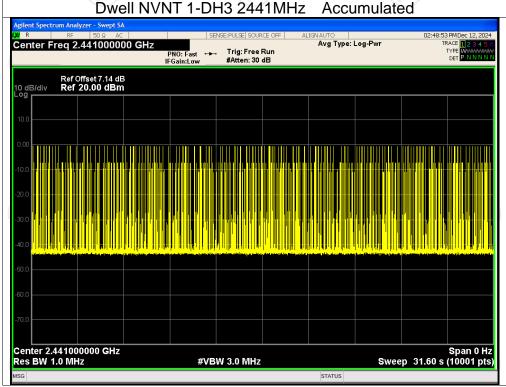






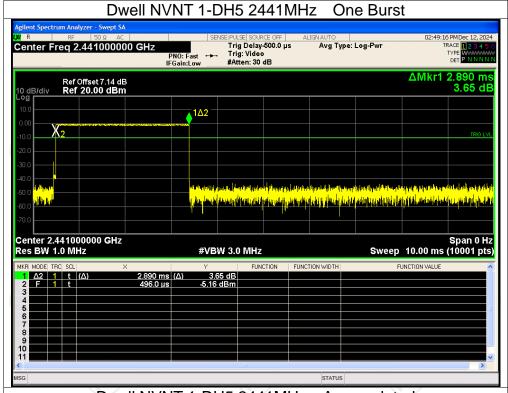


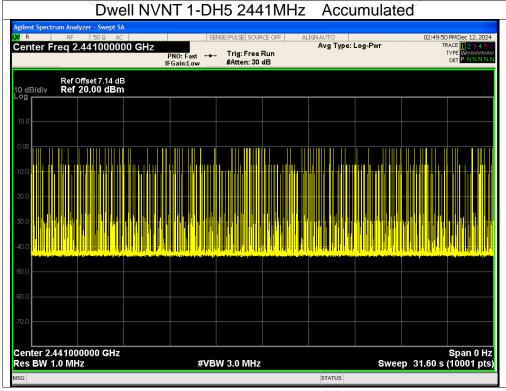






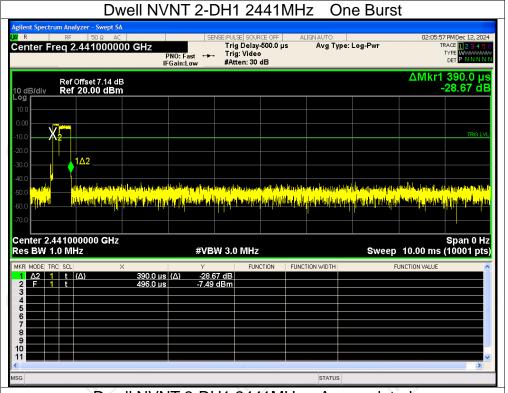


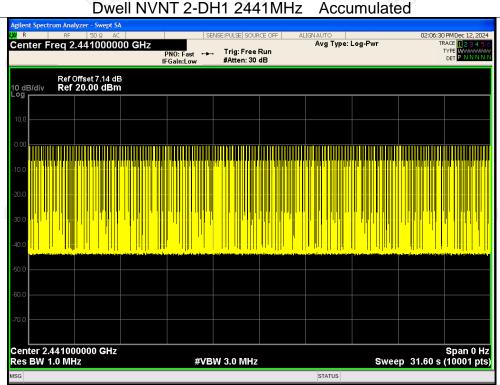






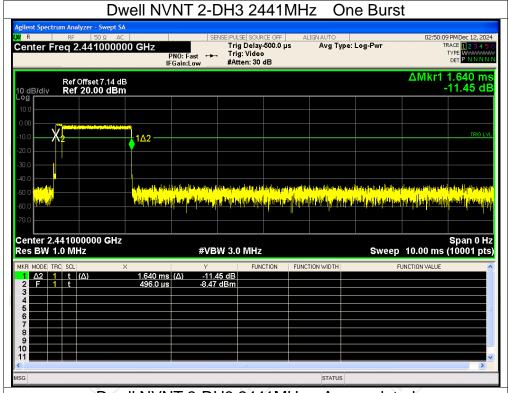


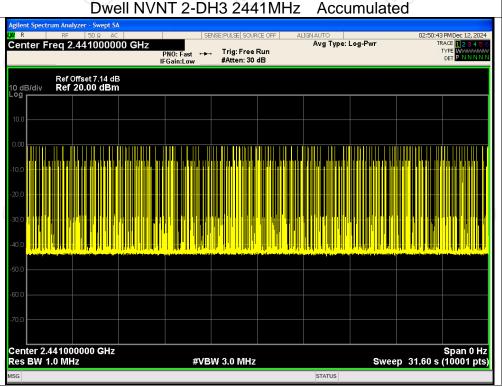






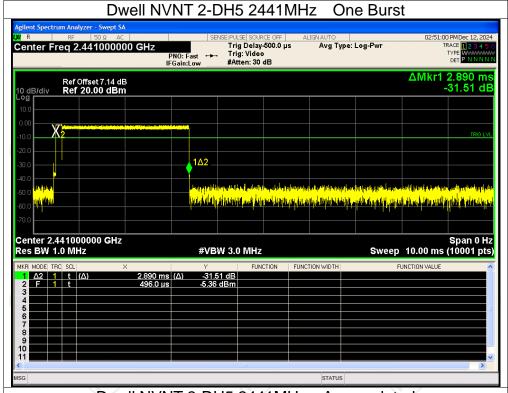








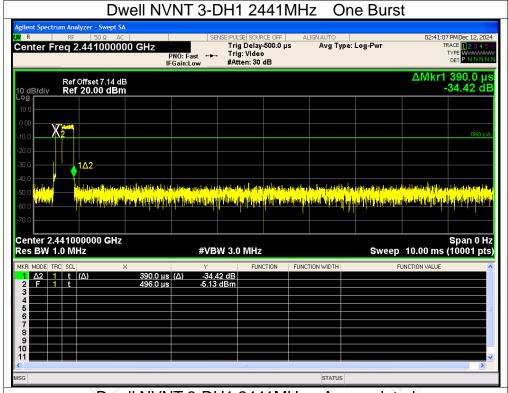


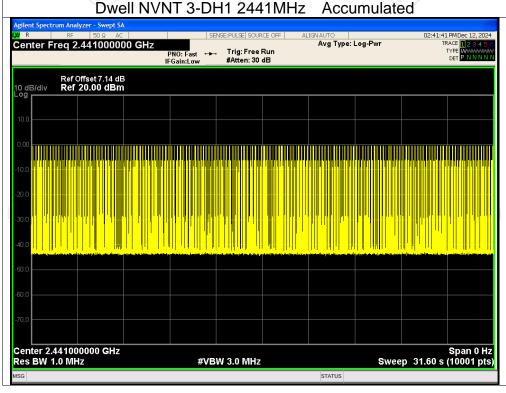


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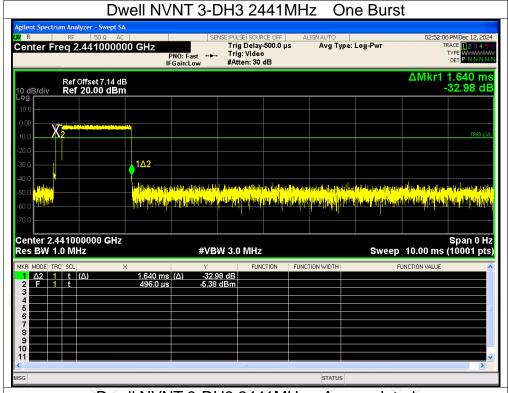


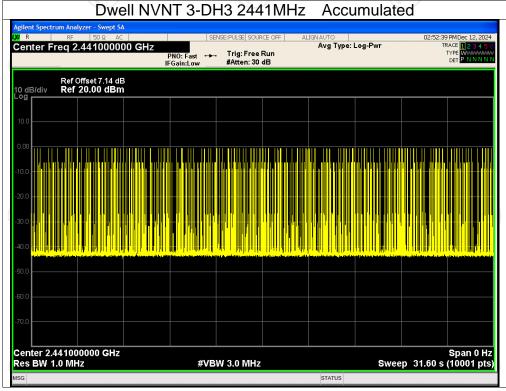






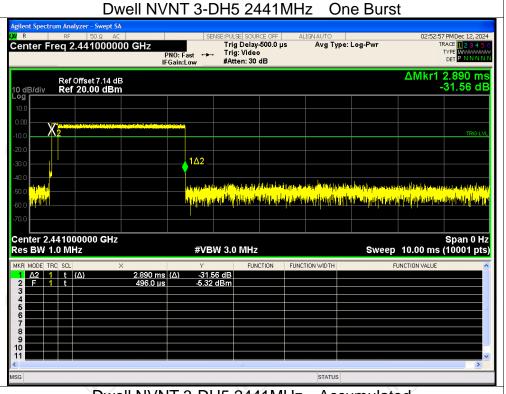


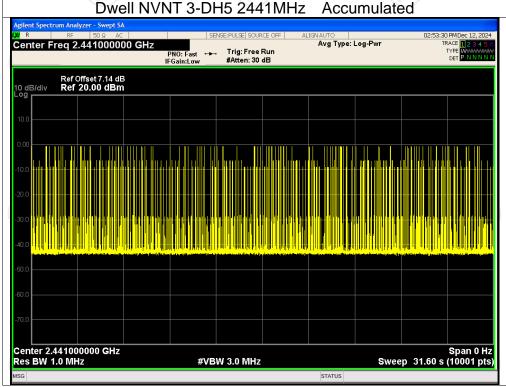














Report No.: TCT241210E009

### **Appendix B: Photographs of Test Setup**

Please refer to document Appendix No.: TCT241210E009-A

## **Appendix C: Photographs of EUT**

Please refer to document Appendix No.: TCT241210E009-B & TCT241210E009-C

#### \*\*\*\*\*END OF REPORT\*\*\*\*