

	TEST REPOR	T				
FCC ID:	2A8T7K10ELITE					
Test Report No::	TCT241107E022	(0)				
Date of issue::	Nov. 15, 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::	Shenzhen Kingbolen Electrics T	echnology Co., Ltd.				
Address::	B1020-1028, Yousong Technolo Longhua, Shenzhen, 518109 Ch	gy Building, Donghuan 1st road, nina				
Manufacturer's name:	Shenzhen Kingbolen Electrics T	echnology Co., Ltd.				
Address:	B1020-1028, Yousong Technology Building, Donghuan 1st road, Longhua, Shenzhen, 518109 China					
Standard(s)::	FCC CFR Title 47 Part 15 Subpa FCC KDB 558074 D01 15.247 N ANSI C63.10:2020					
Product Name::	Automotive Diagnostic Tool					
Trade Mark::	KINGBOLEN					
Model/Type reference:	K10 Elite					
Rating(s)::	Rechargeable Li-ion Battery DC	3.85V				
Date of receipt of test item:	Nov. 07, 2024					
Date (s) of performance of test:	Nov. 07, 2024 ~ Nov. 15, 2024					
Tested by (+signature):	Ronaldo LUO	Ranald GANGCE				
Check by (+signature):	Beryl ZHAO	Boyl 24 TCT)				
Approved by (+signature):	Tomsin	Toms in the				

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1. General Product Information

1.1. EUT description

Product Name:	Automotive Diagnostic Tool	
Model/Type reference:	K10 Elite	
Sample Number:	TCT241107E022-0101	
Bluetooth Version:	V5.1 (This report is for BDR+EDR)	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	(0)
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	FPC Antenna	
Antenna Gain:	3.09dBi	(0)
Rating(s):	Rechargeable Li-ion Battery DC 3.85V	

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

1.2. Model(s) list

None.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
10	2412MHz	30	2432MHz	- 50	2452MHz	70	2472MHz
9 11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		(c)

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:	23.5 °C	24.6 °C					
Humidity:	50 % RH	53 % RH					
Atmospheric Pressure:	1010 mbar	1010 mbar					
Test Software:							
Software Information:	Engineering mode						
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	Equipment Model No.		FCC ID	Trade Name
Adapter	EP-TA200	R37R55T6KL2SE3	/	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.





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:

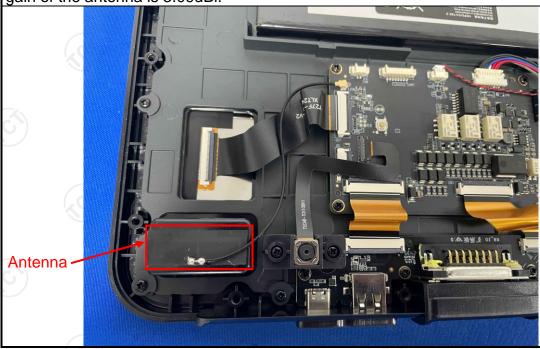
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 FPC antenna which permanently attached, and the best case gain of the antenna is 3.09dBi.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2020					
Frequency Range:	150 kHz to 30 MHz		(6)			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
Frequency range Limit (dBuV) (MHz) Quasi-peak Ave Ave Colored Colored						
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 + Transmitting	g 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.: TCT241107E022

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	cturer 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					

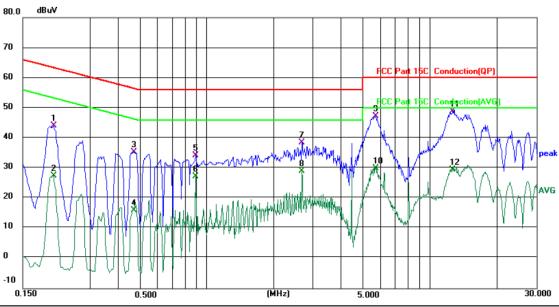




5.2.3. Test data

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: 23.5 (°C)

Humidity: 50 %

Report No.: TCT241107E022

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2059	34.39	9.65	44.04	63.37	-19.33	QP	
2		0.2059	17.90	9.65	27.55	53.37	-25.82	AVG	
3		0.4700	25.21	10.13	35.34	56.51	-21.17	QP	
4		0.4700	5.92	10.13	16.05	46.51	-30.46	AVG	
5		0.8940	23.67	10.62	34.29	56.00	-21.71	QP	
6		0.8940	16.70	10.62	27.32	46.00	-18.68	AVG	
7		2.6779	28.66	9.92	38.58	56.00	-17.42	QP	
8		2.6779	19.01	9.92	28.93	46.00	-17.07	AVG	
9		5.7339	37.09	10.22	47.31	60.00	-12.69	QP	
10		5.7339	19.66	10.22	29.88	50.00	-20.12	AVG	
11	*	12.6940	38.60	10.30	48.90	60.00	-11.10	QP	
12		12.6940	19.20	10.30	29.50	50.00	-20.50	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)

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

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

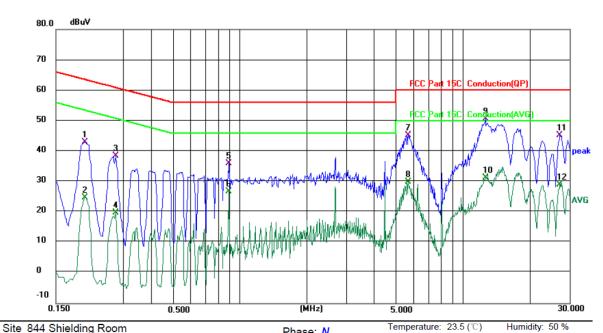
Q.P. =Quasi-Peak

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)



Limit: FCC Part 15C Conduction(QP)

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

LIIIII. F	JO Part 13	oc Conduct	iion(QF)				T(rtaaptor ii	120 1700 112)
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2020	33.45	9.63	43.08	63.53	-20.45	QP	
2	0.2020	15.11	9.63	24.74	53.53	-28.79	AVG	
3	0.2779	28.77	9.64	38.41	60.88	-22.47	QP	
4	0.2779	10.26	9.64	19.90	50.88	-30.98	AVG	
5	0.8940	25.48	10.58	36.06	56.00	-19.94	QP	
6	0.8940	16.31	10.58	26.89	46.00	-19.11	AVG	
7	5.6859	35.04	10.15	45.19	60.00	-14.81	QP	
8	5.6859	19.88	10.15	30.03	50.00	-19.97	AVG	
9 *	12.6259	40.31	10.28	50.59	60.00	-9.41	QP	
10	12.6259	20.91	10.28	31.19	50.00	-18.81	AVG	
11	27.2540	34.57	10.67	45.24	60.00	-14.76	QP	
12	27.2540	18.44	10.67	29.11	50.00	-20.89	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

A		
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 (C)		
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 20dE 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 = maxhold. 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



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	/	/



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 Anabasa 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:

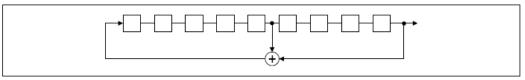
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

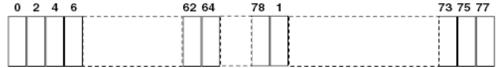
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized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

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	

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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 fal in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

5.10.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025		
Combiner Box	Ascentest	AT890-RFB		(0)		



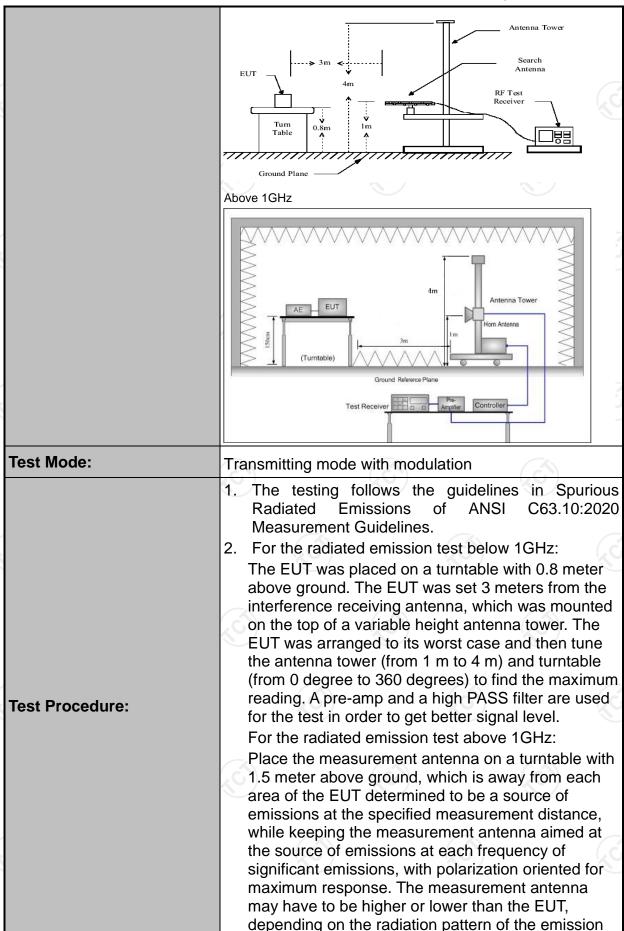
5.11. Radiated Spurious Emission Measurement

5.11.1. Test Specification

		<u> </u>											
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				(0)								
Antenna Polarization:	Horizontal &	Vertical											
	Frequency	Detecto		VBW	Remark								
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-pe Quasi-pe		1kHz 30kHz	Quasi-peak Value Quasi-peak Value								
·	30MHz-1GHz	Quasi-pe	ak 120KHz	300KHz	Quasi-peak Value								
	Above 1GHz	Peak	1MHz	3MHz	Peak Value								
		Peak	1MHz	10Hz	Average Value								
	Frequen	ісу	Field Stre (microvolts		Measurement Distance (meters)								
	0.009-0.4	490	2400/F(H		300								
	0.490-1.7	705	24000/F(KHz)	30								
	1.705-3		30		30								
	30-88		100		3								
Limit:	88-216		150		3								
Lillit.	216-96 Above 9		200 500		3								
	Frequency	Fie	eld Strength rovolts/meter)	Measure Distan	nce Detector								
		(·	(mete									
	Above 1GHz	z -	500 5000	3	Average Peak								
		For radiated emissions below 30MHz Distance = 3m Computer											
est setup:	C.Sm EUT	Turn table 1m											
	30MHz to 1GHz												









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 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=1MH for f>1GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Transmax hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 millisecon On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn 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)	TESTING CENTRE TECHNOLOGY	кероп No.: 1С124110/E0.
 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=1MH for f>1GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Traemax hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseco On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn 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 milliseco On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn 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
Test results: PASS		·
19	Test results:	PASS





5.11.2. Test Instruments

	Radiated Er	nission 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) /	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	/

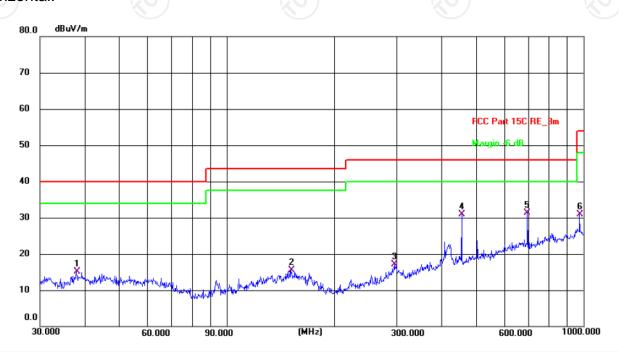


5.11.3. Test Data

Please refer to following diagram for individual

Horizontal:

Below 1GHz



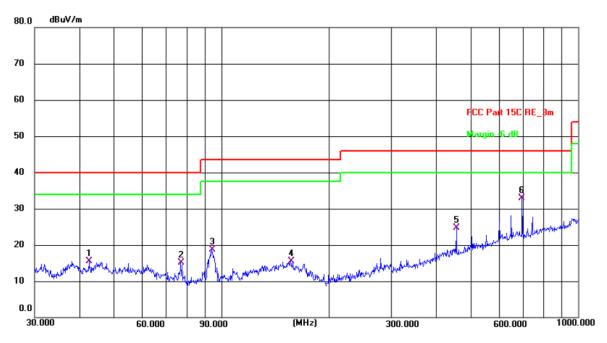
Site 3m Anechoic Chamber2 Polarization: Horizontal Temperature: 24.6(C) Humidity: 53 %

Power: DC 3.85V Limit: FCC Part 15C RE 3m Frequency Reading Factor Level Limit Margin Detector P/F Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 37.9449 33.80 -18.70 15.10 40.00 -24.90 QP Ρ -17.20 15.57 -27.93 2 151.5972 32.77 43.50 QP Ρ 3 295.1468 34.74 -17.58 17.16 46.00 -28.84 QΡ Ρ 4 455.9058 44.30 -13.41 30.89 46.00 -15.11 QP Ρ 5 39.94 -8.62 31.32 46.00 -14.68 Р 696.8567 QP -4.65 6 975.7528 35.48 30.83 54.00 -23.17 QP Ρ





Vertical:



Site 3m Anechoic Chamber2 Polarization: Vertical Temperature: 24.6(C) Humidity: 53 %

Limit: FCC Part 15C RE_3m

Power: DC 3.85V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	42.6000	34.09	-18.58	15.51	40.00	-24.49	QP	Р	
2	77.0505	36.70	-21.51	15.19	40.00	-24.81	QP	Р	
3	94.0979	40.82	-22.03	18.79	43.50	-24.71	QP	Р	
4	156.4578	32.52	-16.97	15.55	43.50	-27.95	QP	Р	
5	455.9058	38.18	-13.41	24.77	46.00	-21.23	QP	Р	
6 *	696.8567	41.58	-8.62	32.96	46.00	-13.04	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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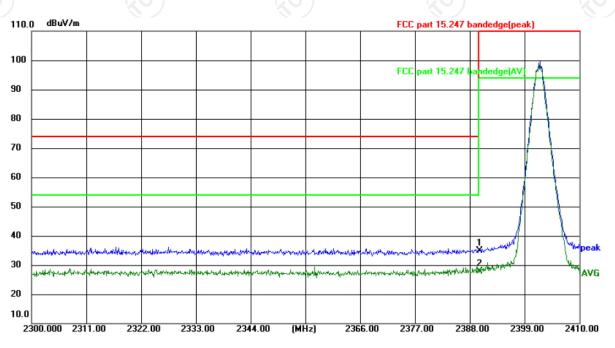
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



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

Limit: FCC part 15.247 bandedge(peak)

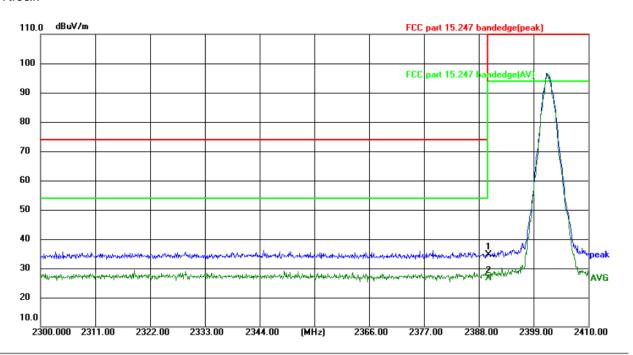
Power:DC 3.85V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	51.48	-16.70	34.78	74.00	-39.22	peak	Р	
2 *	2390.000	44.69	-16.70	27.99	54.00	-26.01	AVG	Р	





Vertical:

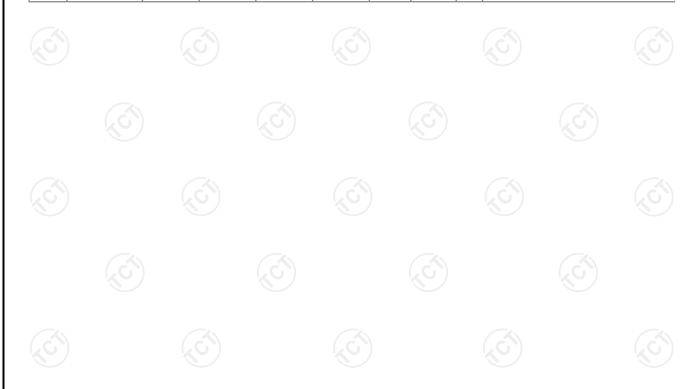


Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 40 %

Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.85V

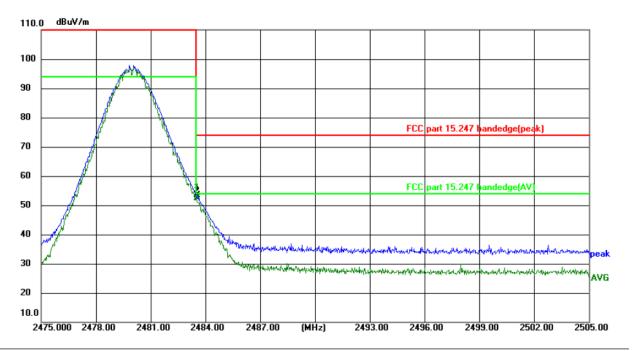
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	51.31	-16.70	34.61	74.00	-39.39	peak	Р	
2 *	2390.000	43.25	-16.70	26.55	54.00	-27.45	AVG	Р	





Highest channel 2480:

Horizontal:



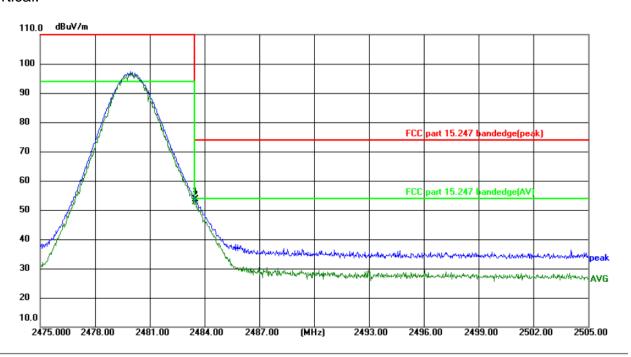
Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.5(°C) Humidity: 40 %

Limit:	FCC part 15.2	247 banded	dge(peak)	Power:DC 3.85V					
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2483.500	70.01	-16.65	53.36	74.00	-20.64	peak	Р	
2 *	2483 500	69 15	-16 65	52 50	54 00	-1 50	AVG	Р	





Vertical:



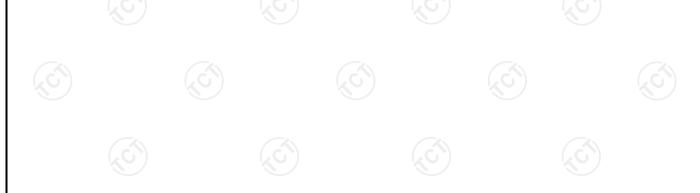
Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 40 %

Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.85V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	70.16	-16.65	53.51	74.00	-20.49	peak	Р	
2 *	2483.500	69.40	-16.65	52.75	54.00	-1.25	AVG	Р	

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	Modulation Type: GFSK												
Low chann	el: 2402 M	lHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	ading Factor Peak		AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4804	Н	54.24		-9.51	44.73		74	54	-9.27				
7206	Н	45.01		-1.41	43.60	-	74	54	-10.40				
	Н						-	7-7					
	, G'\		(JG)			· G ` \		(.C)					
4804	V	56.63		-9.51	47.12	<u></u>	74	54	-6.88				
7206	V	47.56		-1.41	46.15		74	54	-7.85				
	V												

Middle cha	nnel: 2441	MHz		1/20	5)		((0)		120
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	55.19		-9.36	45.83		74	54	-8.17
7323	(OH)	46.34	-4,0	-1.14	45.20	<u>C</u> 1	74	54	-8.80
	H				`	<u></u>			
			T			T			
4882	V	56.98		-9.36	47.62		74	54	-6.38
7323	V	46.50		-1.14	45.36		74	54	-8.64
S)	V)		(22-)		

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	T	54.48		-9.20	45.28		74	54	-8.72
7440	Н	45.44		-0.96	44.48		74	54	-9.52
	Н				7		 -		
		(.6)		(.0			(.c)		(.c
4960	V	54.83		-9.20	45.63		74	54	-8.37
7440	V	45.28		-0.96	44.32		74	54	-9.68
	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.
- 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.



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NVNT

NVNT

NVNT

3-DH1

3-DH1

3-DH1

Appendix A: Test Result of Conducted Test

Maximum Conducted Output Power									
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict				
NVNT	1-DH1	2402	1.05	30	Pass				
NVNT	1-DH1	2441	1.36	30	Pass				
NVNT	1-DH1	2480	1.30	30	Pass				
NVNT	2-DH1	2402	0.53	21	Pass				
NVNT	2-DH1	2441	0.71	21	Pass				
NVNT	2-DH1	2480	0.12	21	Pass				

2402

2441

2480

0.27

0.55

0.45

21

21

21

Pass

Pass

Pass









| Power NVNT 1-DH1 2441MHz | Spectrum Analyzer - Swept SA | Sense Puts | Source CF | Alignauto | O6:30:39 AMNov 11, 2024 | Rt. | RF | So Q AC | PNO; Fast | Free Run | Avg Type: Log-Pwr |













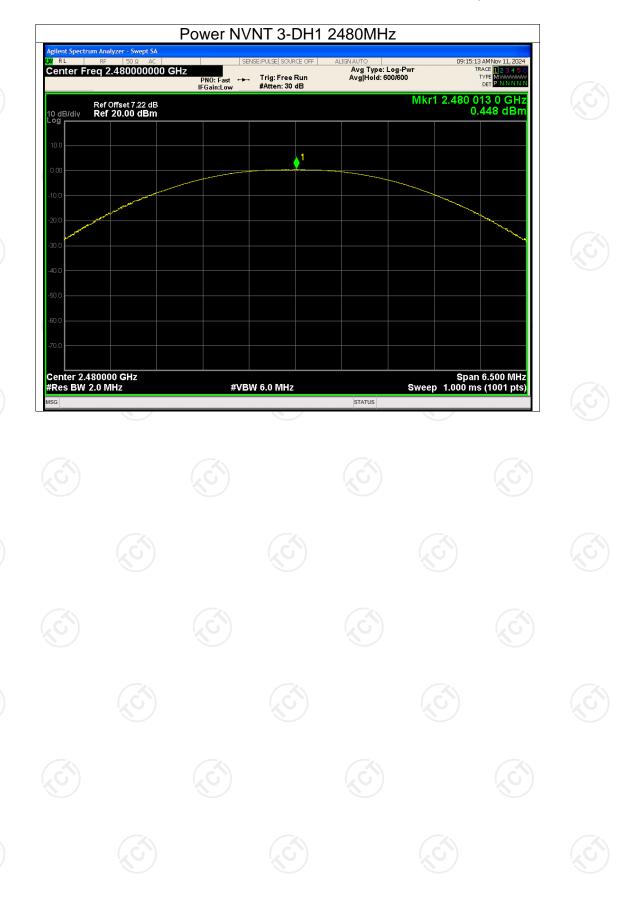












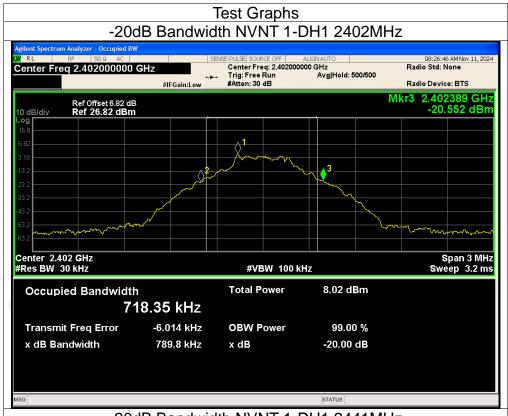


-20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.790	Pass
NVNT	1-DH1	2441	0.789	Pass
NVNT	1-DH1	2480	0.790	Pass
NVNT	2-DH1	2402	1.220	Pass
NVNT	2-DH1	2441	1.235	Pass
NVNT	2-DH1	2480	1.221	Pass
NVNT	3-DH1	2402	1.225	Pass
NVNT	3-DH1	2441	1.226	Pass
NVNT	3-DH1	2480	1.225	Pass

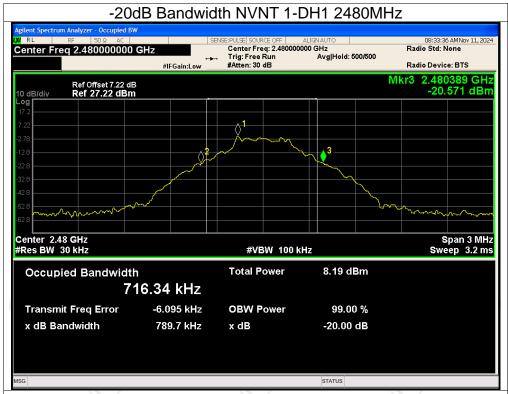






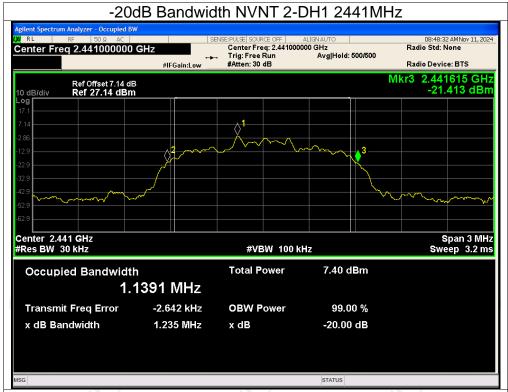
-20dB Bandwidth NVNT 1-DH1 2441MHz 08:30:56 AMNov 11, 2024 | ALIGNAUTO | Center Freq: 2.441000000 GHz | Trig: Free Run | Avg|Hold: 500/500 #Atten: 30 dB Center Freq 2.441000000 GHz Radio Std: None #IFGain:Low Mkr3 2.441388 GHz -20.548 dBm Ref Offset 7.14 dB Ref 27.14 dBm 3 Span 3 MHz Sweep 3.2 ms Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz **Total Power** 8.31 dBm Occupied Bandwidth 714.78 kHz -6.398 kHz **OBW Power** 99.00 % Transmit Freq Error 788.8 kHz x dB -20.00 dB x dB Bandwidth STATUS





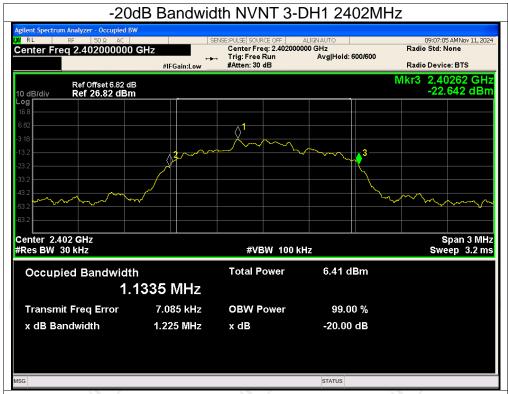






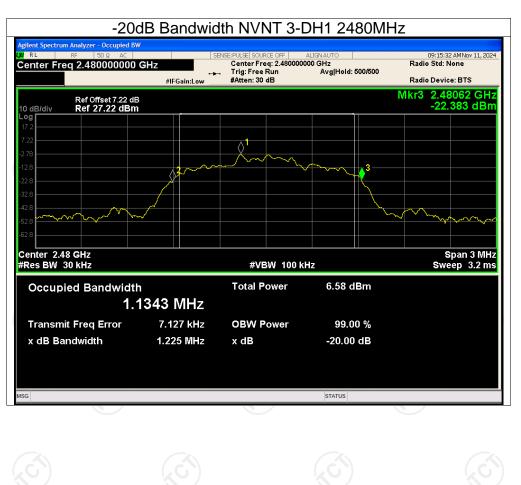














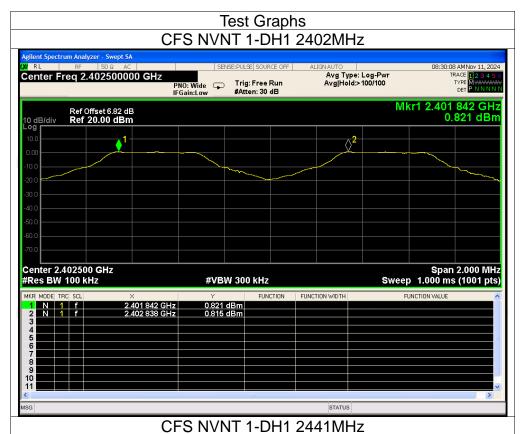


Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.842	2402.838	0.996	0.790	Pass
NVNT	1-DH1	2440.842	2441.842	10	0.790	Pass
NVNT	1-DH1	2478.838	2479.842	1.004	0.790	Pass
NVNT	2-DH1	2401.840	2402.840	1	0.823	Pass
NVNT	2-DH1	2440.838	2441.840	1.002	0.823	Pass
NVNT	2-DH1	2478.842	2479.838	0.996	0.823	Pass
NVNT	3-DH1	2401.838	2402.842	1.004	0.817	Pass
NVNT	3-DH1	2440.840	2441.840	1	0.817	Pass
NVNT	3-DH1	2478.838	2479.840	1.002	0.817	Pass

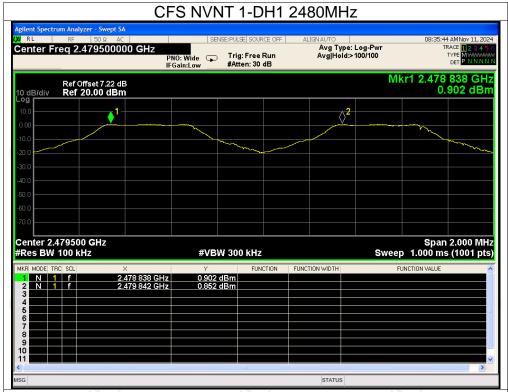


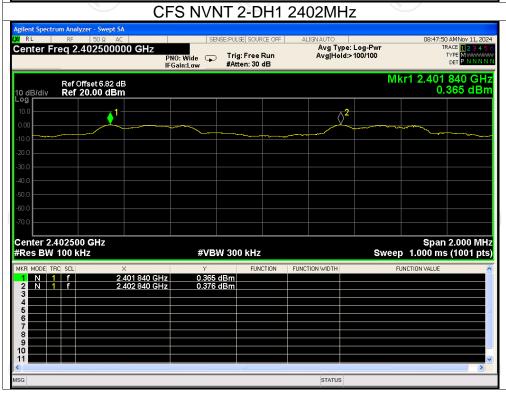




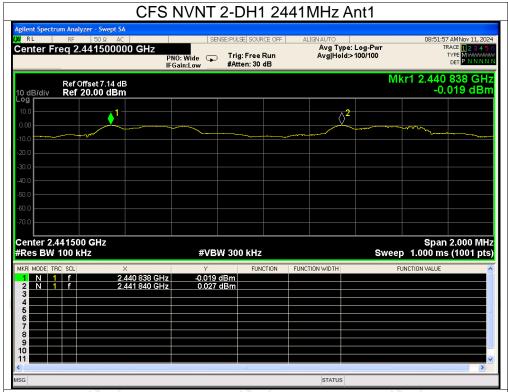
Aprilent Spectrum Analyzer - Swept SA W RL RF SO G AC SENSEPUSE SOURCE OFF ALIGNAUTO 08:32:57 AMNov 11, 2024 Center Freq 2.441500000 GHz PNO: Wide IFGain:Low AvgHold>-100/100 Trace IFGain:Low AvgHold>-100/10

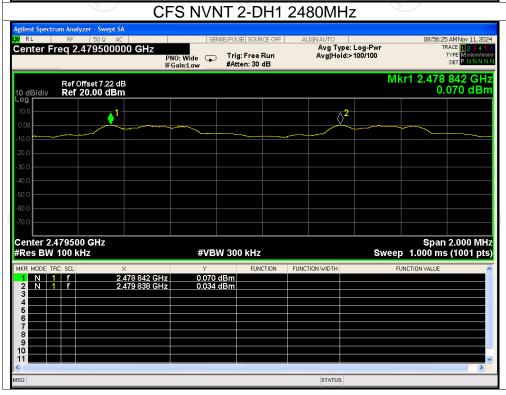




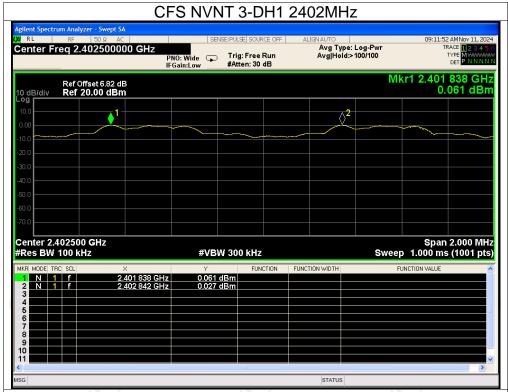


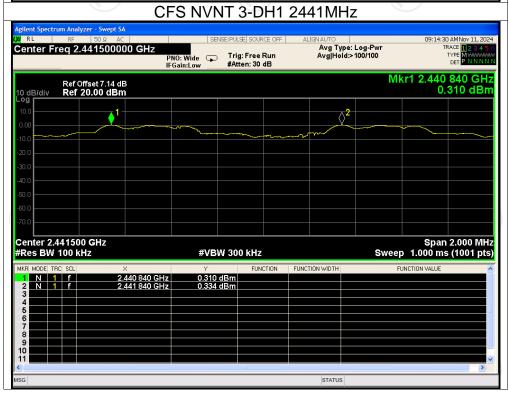


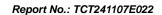




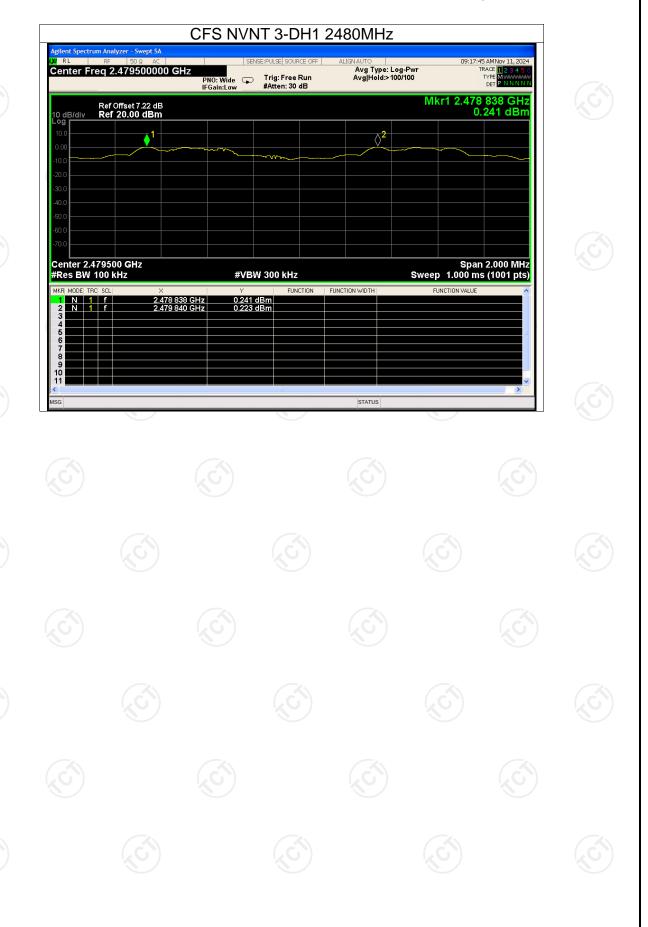








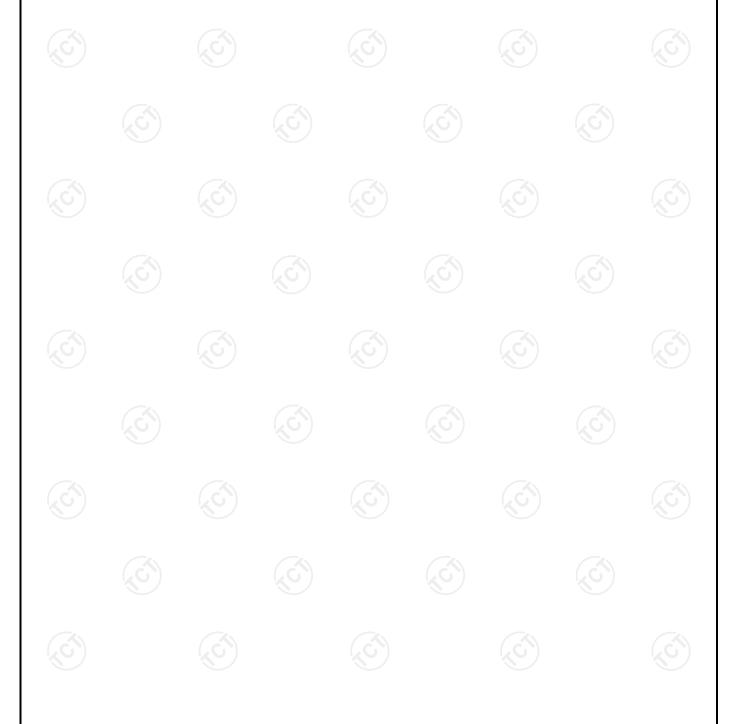




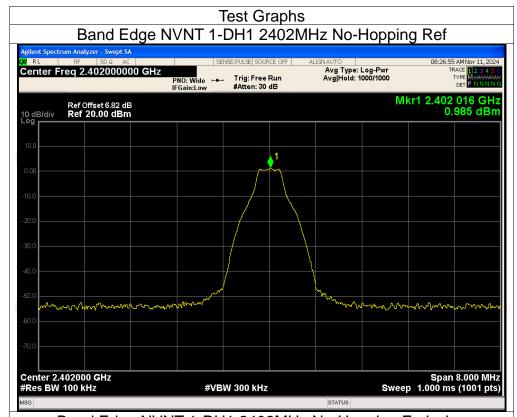


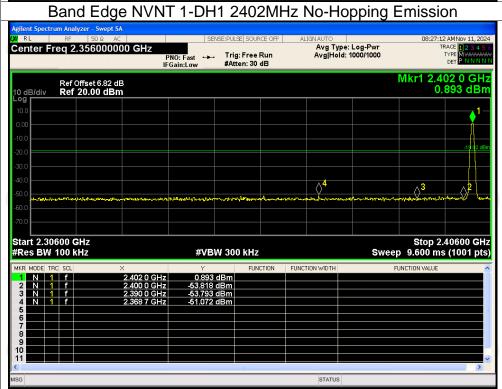
Band Edge

Dana Lago						
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-52.06	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-51.52	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-51.48	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-50.65	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-50.97	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-50.66	-20	Pass

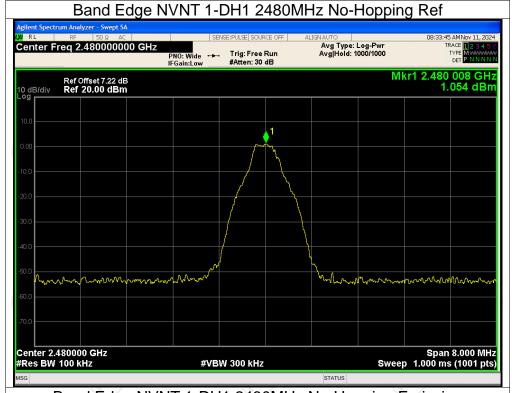


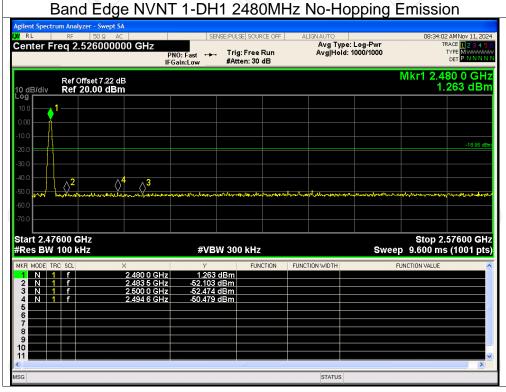




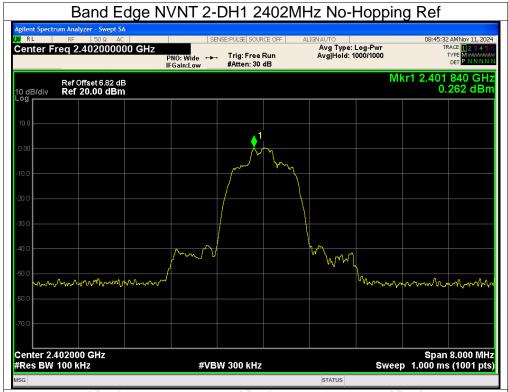


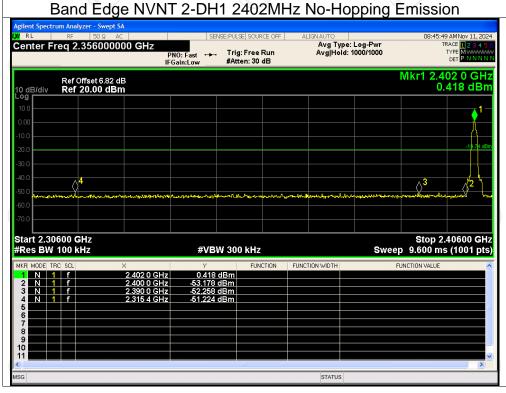




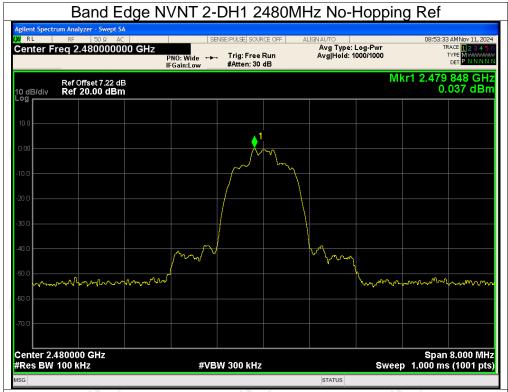


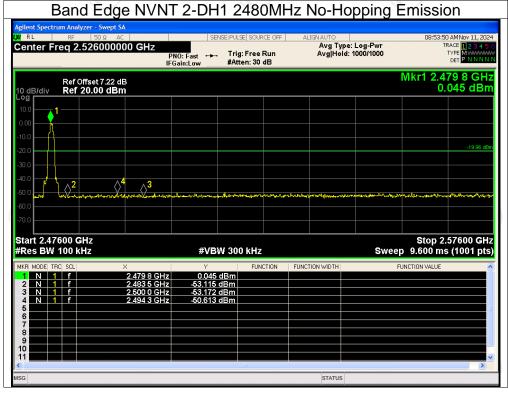




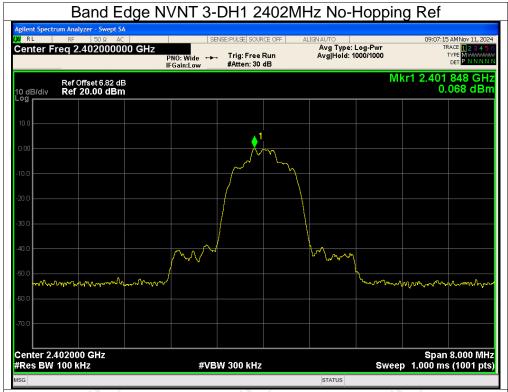


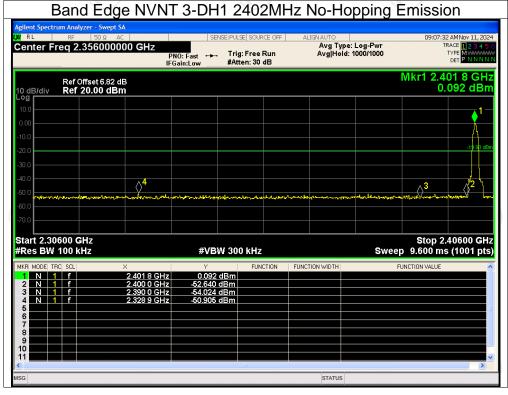




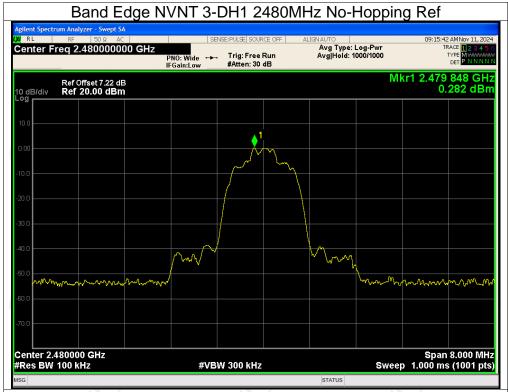


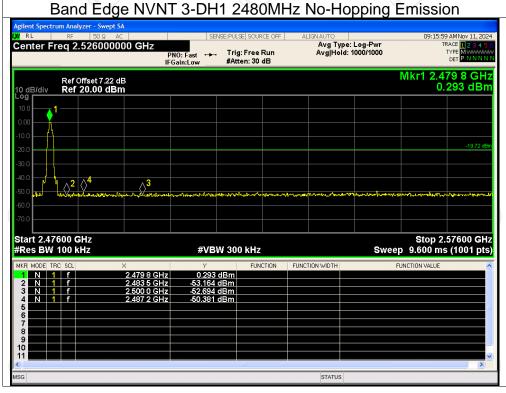








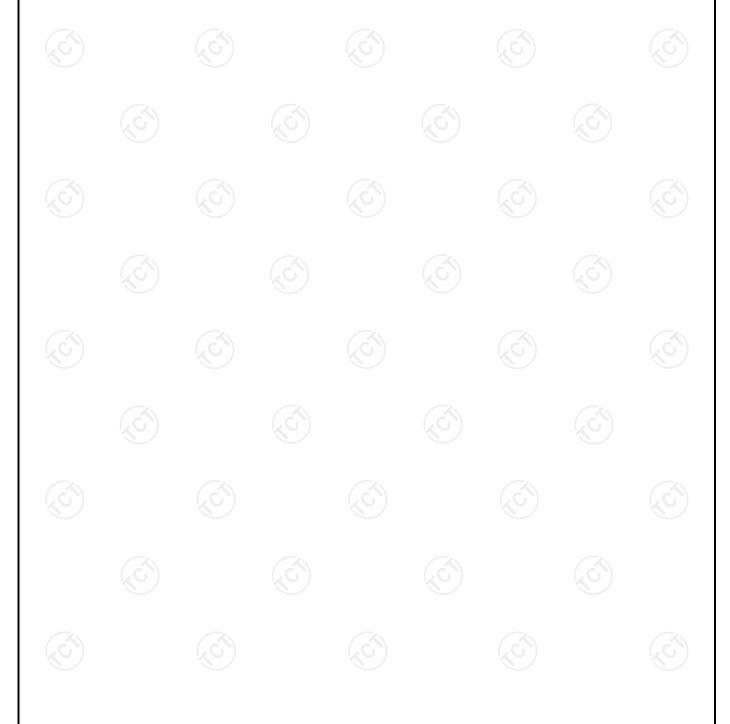




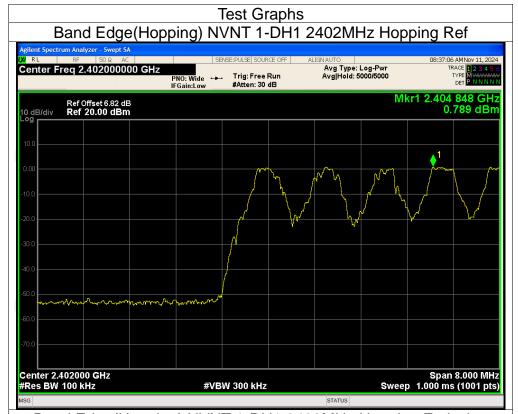


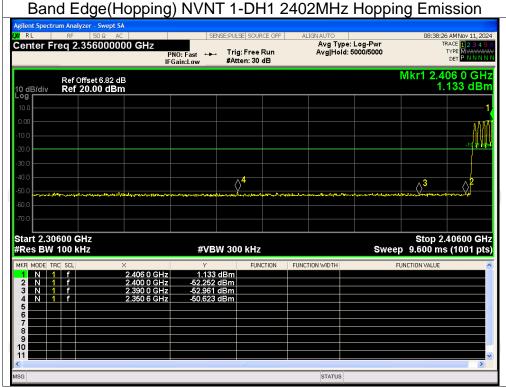
Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-51.41	-20	Pass
NVNT	1-DH1	2480	Hopping	-50.68	-20	Pass
NVNT	2-DH1	2402	Hopping	-50.56	-20	Pass
NVNT	2-DH1	2480	Hopping	-50.21	-20	Pass
NVNT	3-DH1	2402	Hopping	-49.73	-20	Pass
NVNT	3-DH1	2480	Hopping	-50.76	-20	Pass

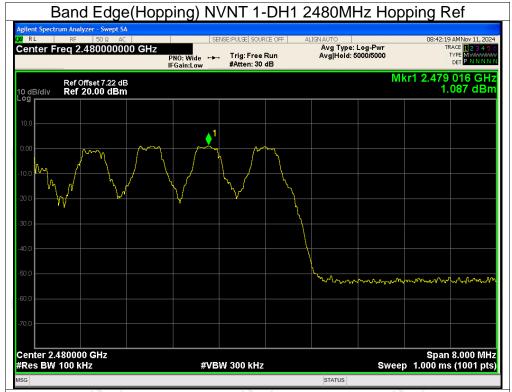


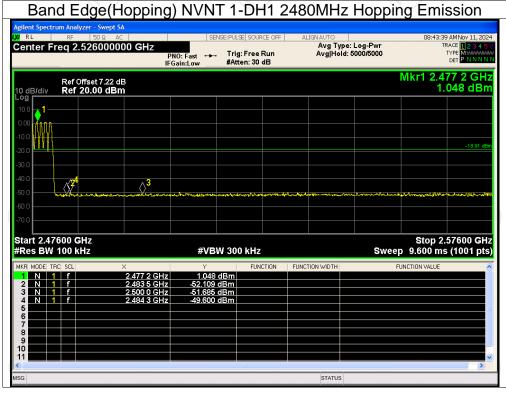






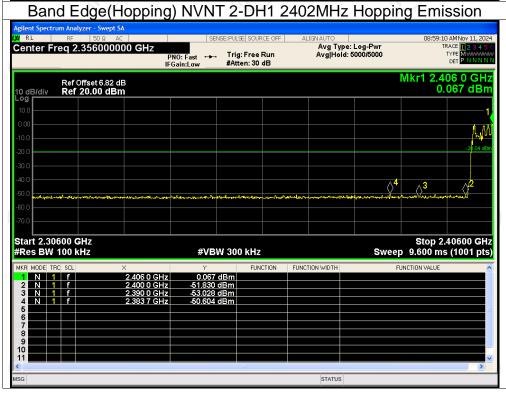






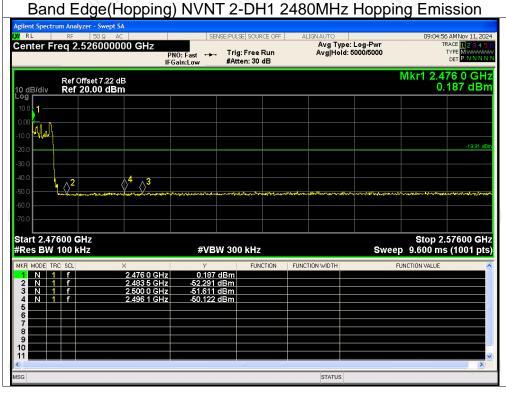






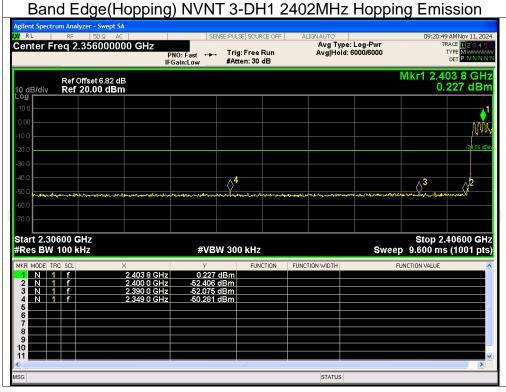






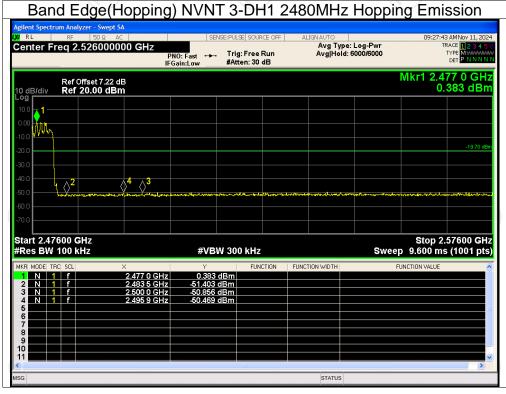












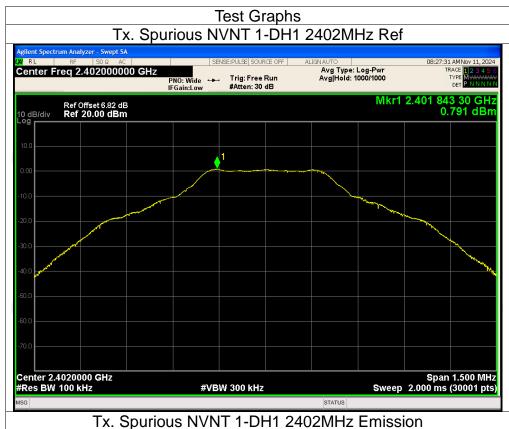


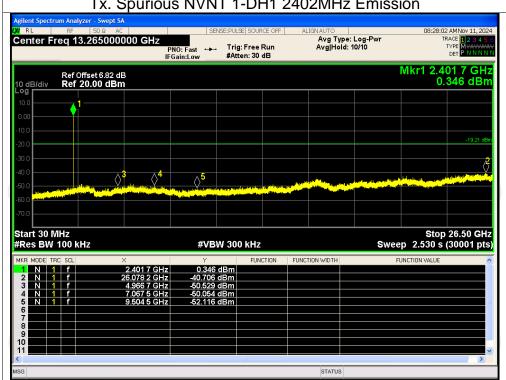
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-41.49	-20	Pass
NVNT	1-DH1	2441	-40.98	-20	Pass
NVNT	1-DH1	2480	-40.89	-20	Pass
NVNT	2-DH1	2402	-40.53	-20	Pass
NVNT	2-DH1	2441	-50.07	-20	Pass
NVNT	2-DH1	2480	-39.63	-20	Pass
NVNT	3-DH1	2402	-40.21	-20	Pass
NVNT	3-DH1	2441	-40.29	-20	Pass
NVNT	3-DH1	2480	-39.57	-20	Pass
NVNT	3-DH1	2441	-40.29	-20	Pa

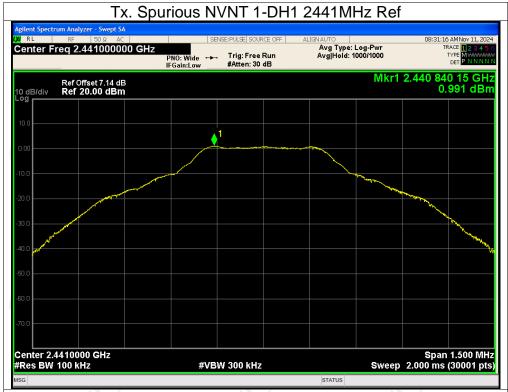


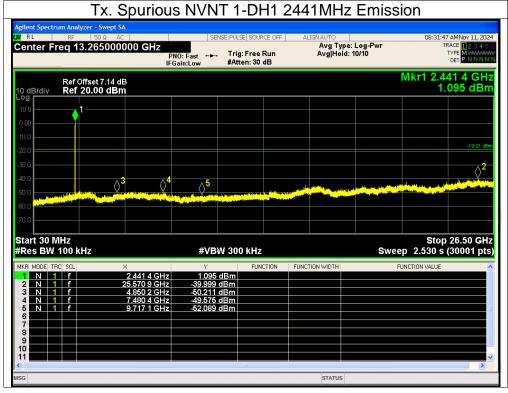




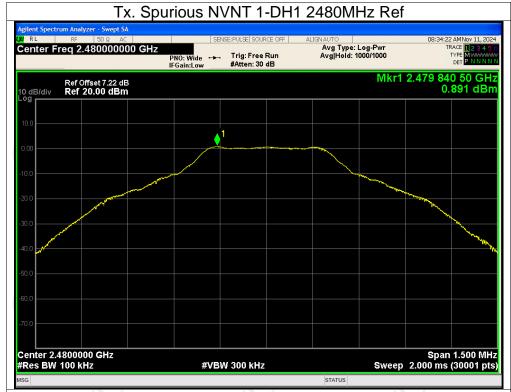


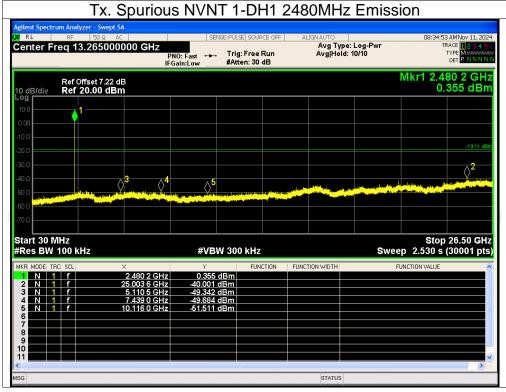




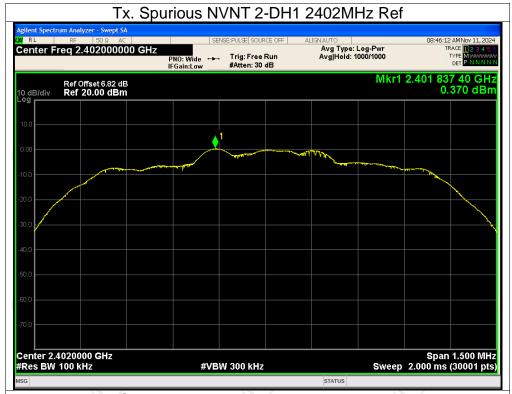


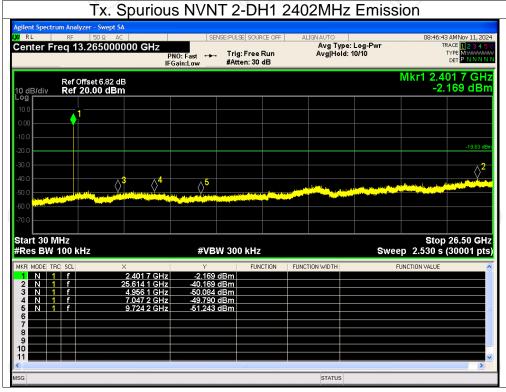




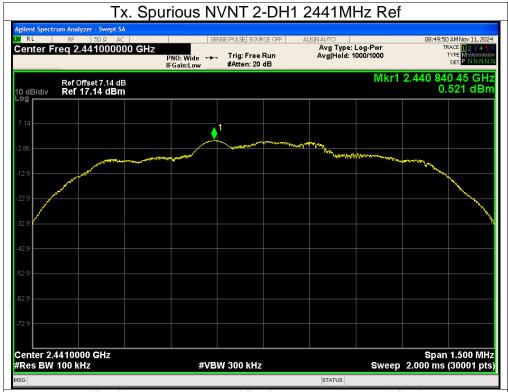


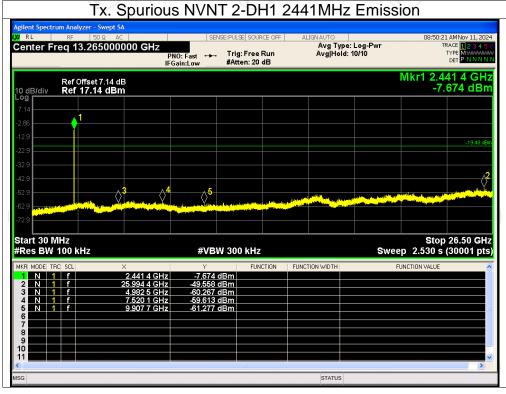






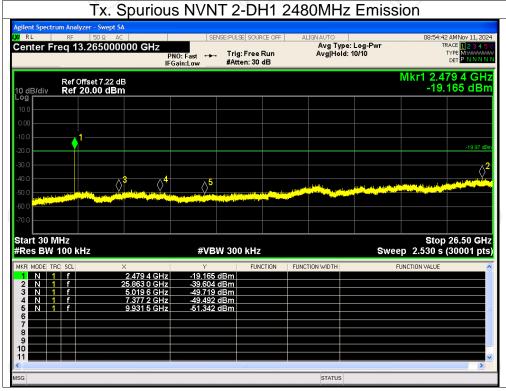




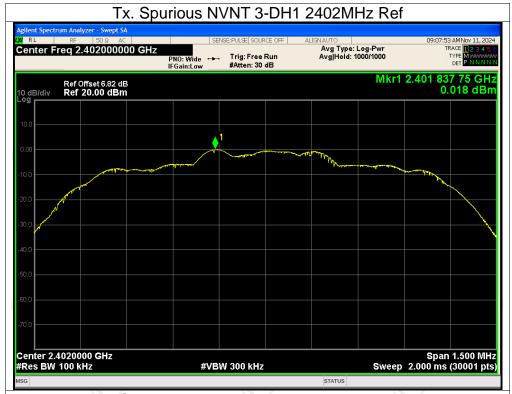


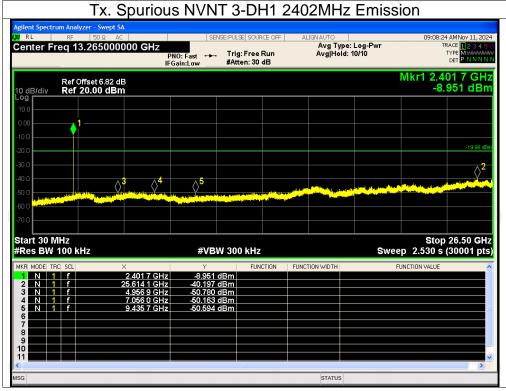




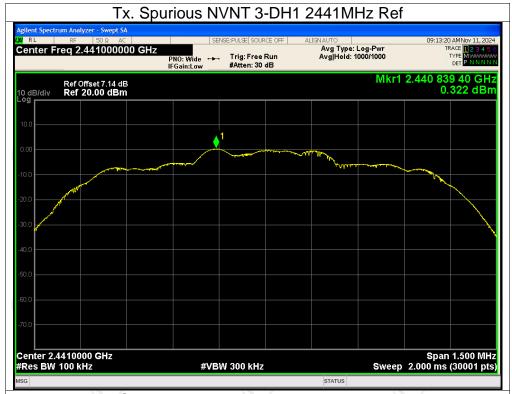


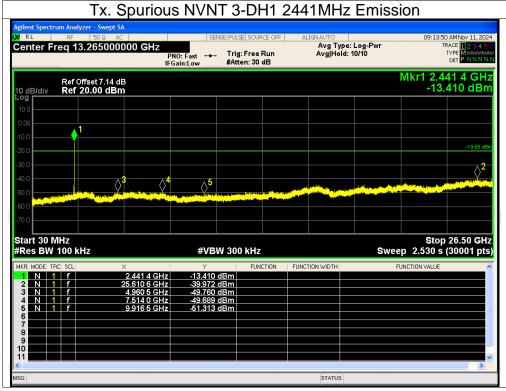






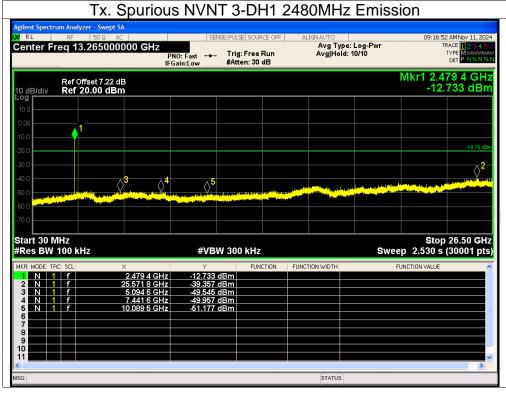










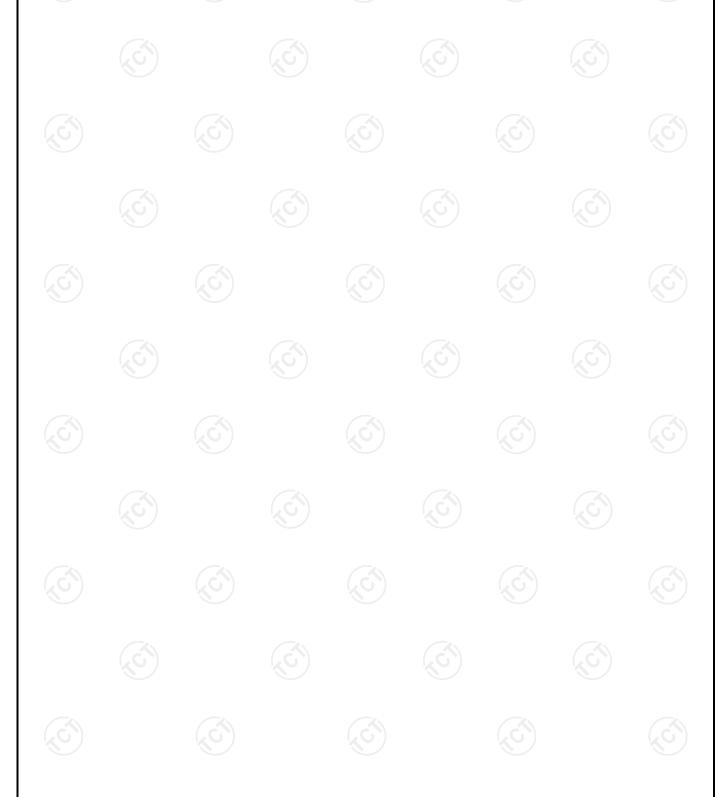


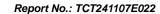


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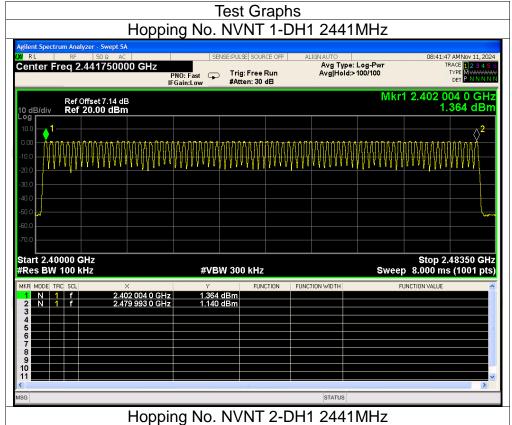
Number of Hopping Channel

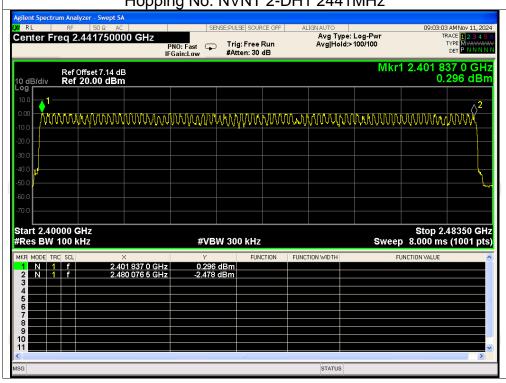
Condition Mode		Hopping Number	Limit	Verdict	
NVNT	1-DH1	79	15	Pass	
NVNT	2-DH1	79	15	Pass	
NVNT	3-DH1	79	15	Pass	

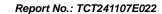




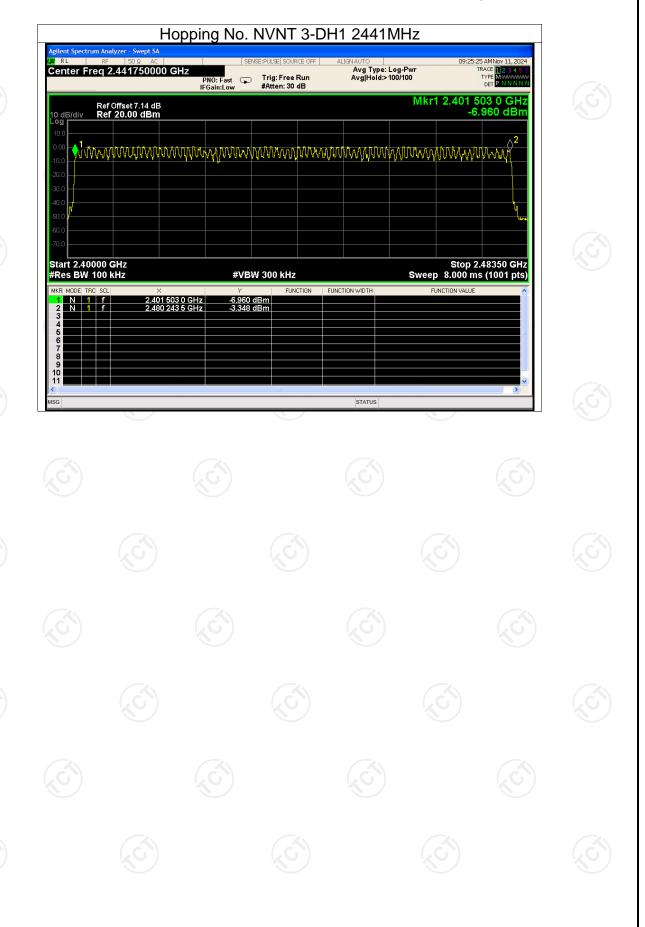














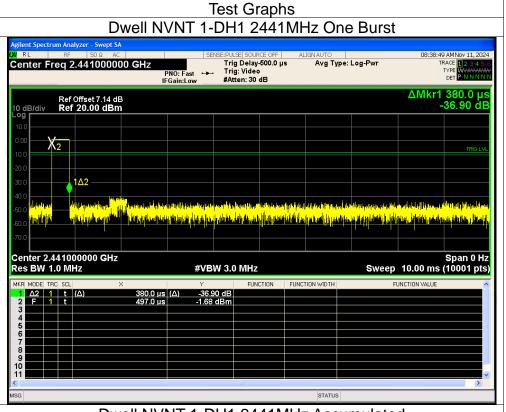
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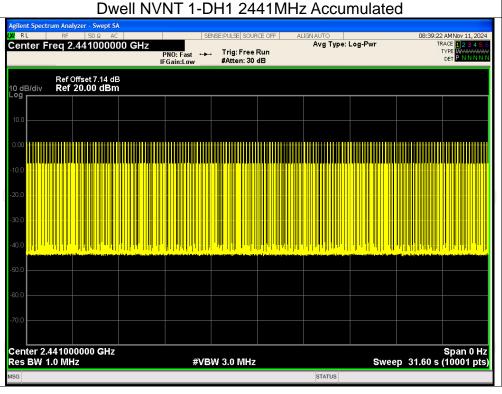
Dwell Time

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	119.70	315	31600	400	Pass
NVNT	1-DH3	2441	1.63	254.28	156	31600	400	Pass
NVNT	1-DH5	2441	2.88	302.40	105	31600	400	Pass
NVNT	2-DH1	2441	0.38	120.08	316	31600	400	Pass
NVNT	2-DH3	2441	1.64	255.84	156	31600	400	Pass
NVNT	2-DH5	2441	2.89	329.46	114	31600	400	Pass
NVNT	3-DH1	2441	0.39	122.85	315	31600	400	Pass
NVNT	3-DH3	2441	1.64	262.40	160	31600	400	Pass
NVNT	3-DH5	2441	2.89	329.46	114	31600	400	Pass

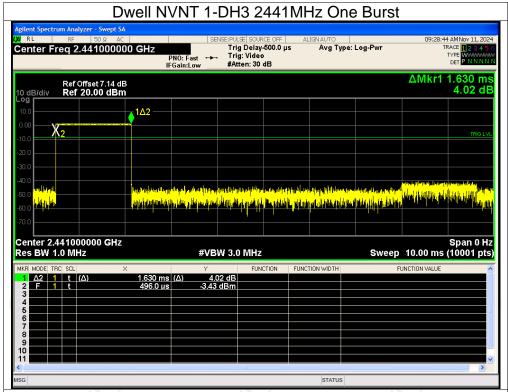


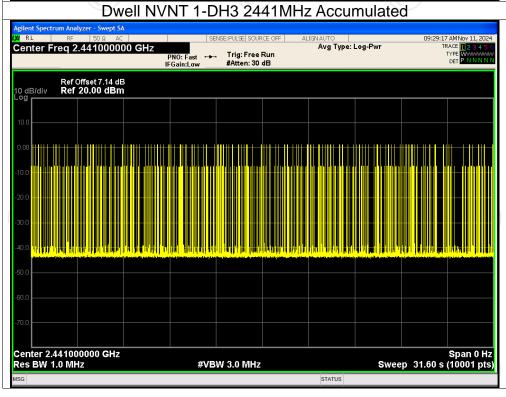




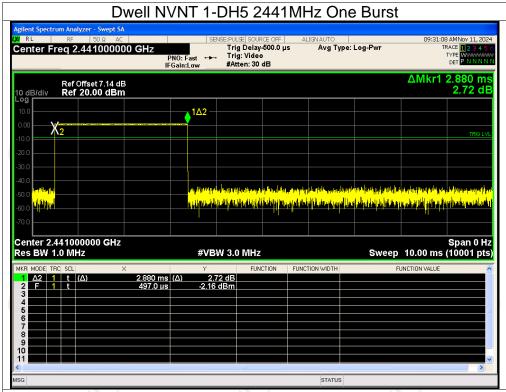


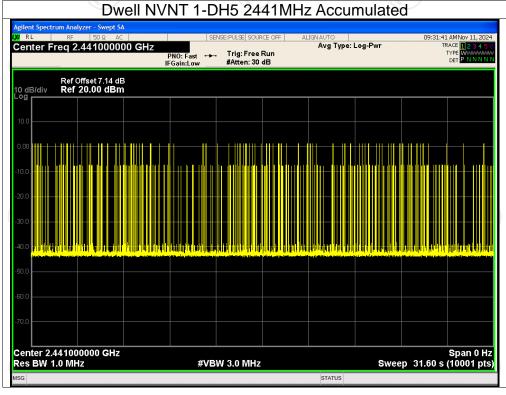




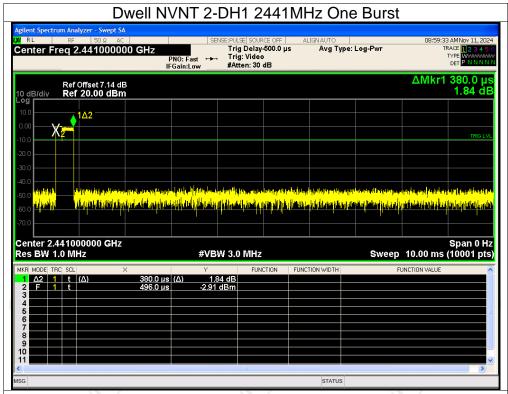


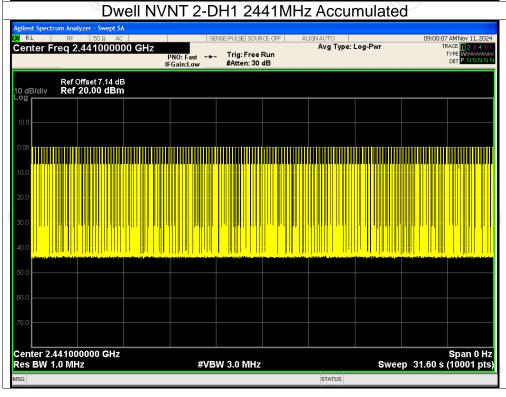




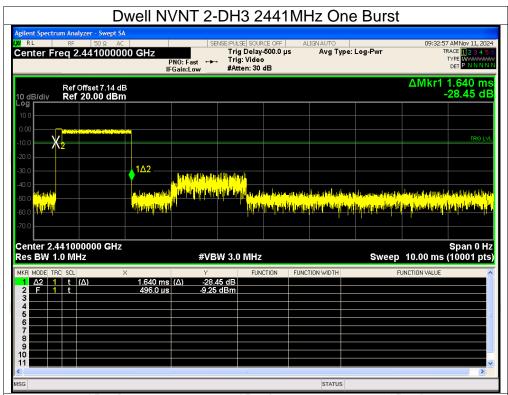


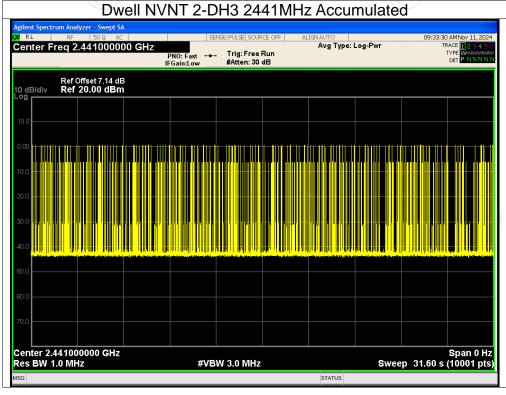






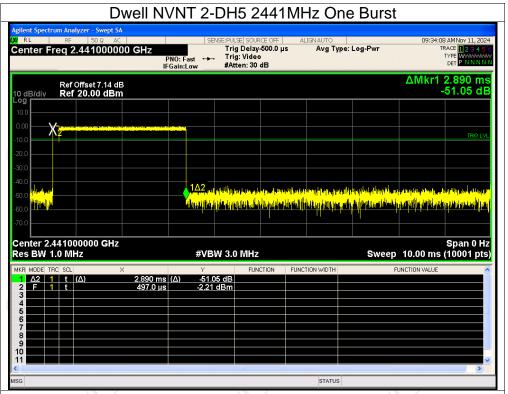


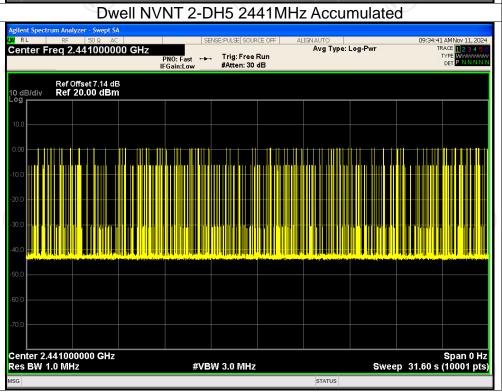




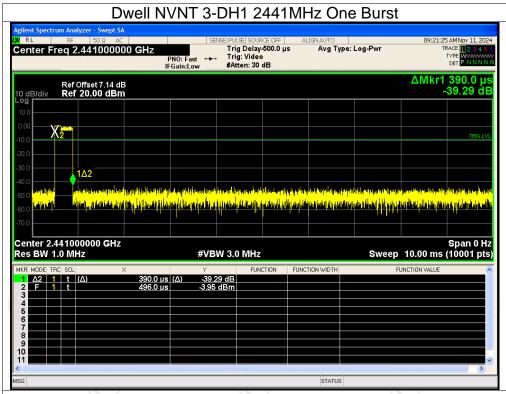


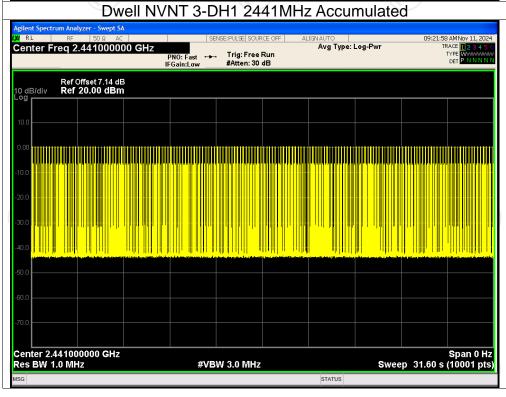






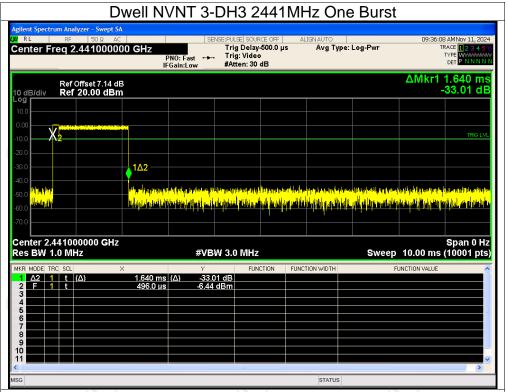


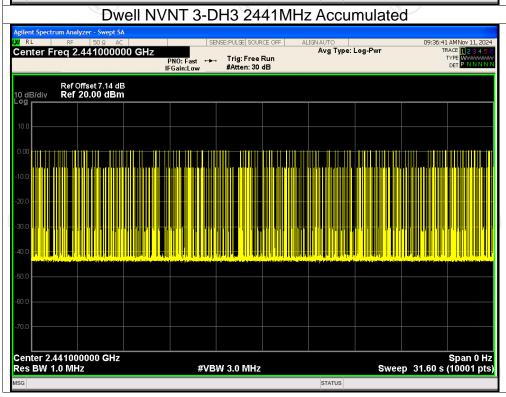


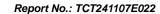




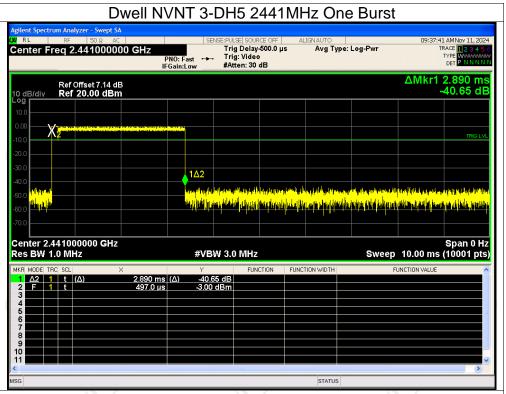


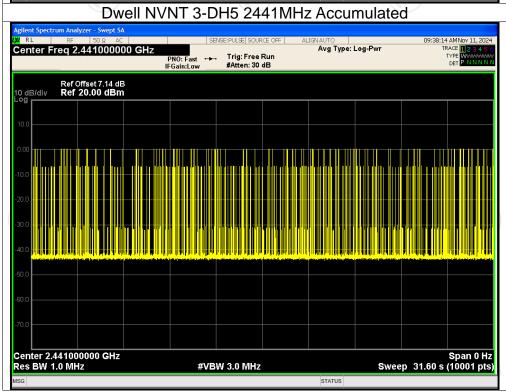














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Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241107E022-A.

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241107E022-B & TCT241107E022-C.

