

RF TEST REPORT

For

Youxi(Shenzhen) Technology Co.,ltd Product Name: Smart Projector

Test Model(s).: C18

Report Reference No. : DACE240520009RL001

FCC ID : 2BGO9-C18

Applicant's Name : Youxi(Shenzhen) Technology Co.,ltd

Address Room 2001A,Building 2,Jingji Yujing Times Building, Huanggekeng

community, Longcheng Sub-district, Longgang District, Shenzhen.

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology

Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : May 20, 2024

Date of Test : May 20, 2024 to May 28, 2024

Data of Issue : May 28, 2024

Result : Pass

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Revision History Of Report

Version Description		on Description REPORT No.		
V1.0	Original	DACE240520009RL001	May 28, 2024	
	- XC	G		
-	OP			
		OF THE PERSON NAMED IN COLUMN 1		

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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V1.0

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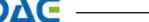
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TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.247		47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	ANSI C63.10-2013 section 6.2	47 CFR 15.207(a)	Pass
Occupied Bandwidth	Bandwidth 47 CFR Part 15.247 ANSI C63.10-2013, section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02		47 CFR 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

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2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Youxi(Shenzhen) Technology Co.,ltd

Address : Room 2001A, Building 2, Jingji Yujing Times Building, Huanggekeng

community, Longcheng Sub-district, Longgang District, Shenzhen.

Manufacturer : Youxi(Shenzhen) Technology Co.,ltd

Address : Room 2001A, Building 2, Jingji Yujing Times Building, Huanggekeng

community, Longcheng Sub-district, Longgang District, Shenzhen.

2.2 Description of Device (EUT)

Smart Projector				
C18				
C18A,C18B,C18C,C18D,C18A-1,C18B-1,C18C-1,C18D-1				
There are many models of this product, but the USB charging port and product appearance are different. The circuit principle, PCB, electrical structure and other components are also the same.				
None				
DC 20V/3.25A from adapter				
MODEL:RSF-DY1138-2003250US INPUT:100-240V~50/60Hz 1.5A OUTPUT:DC20V/3.25A				
2402MHz to 2480MHz				
79				
GFSK, π/4 DQPSK				
PCB				
-0.58dBi				
V1.0				
V1.0				

(Remark:The Antenna Gain is supplied by the customer.DACE is not responsible for This data and the related calculations associated with it)

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz

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11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
rest chamiler	BDR/EDR
Lowest channel	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

2.3 Description of Test Modes

No	Title	Description					
TM1	TX-GFSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.					
TM2	TX-Pi/4DQPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation.					
TM3	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.					
TM4 TX-Pi/4DQPSK Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.							
Rema	Remark:Only the data of the worst mode would be recorded in this report.						

2.4 Description of Support Units

The EUT was tested as an independent device.

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2.5 Equipments Used During The Test

Conducted Emission at AC power line							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Power absorbing clamp	SCHWARZ BECK	MESS- ELEKTRONIK	1	2024-03-25	2025-03-24		
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	1	1		
Cable	SCHWARZ BECK	10	1	2024-03-20	2025-03-19		
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Ateennator	561-G071	2023-12-12	2024-12-11		
50ΩCoaxial Switch	Anritsu	MP59B	M20531	1	/		
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K 03-102109- MH	2023-06-13	2024-06-12		
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2024-12-11		
EMI test software	EZ -EMC	EZ	V1.1.42	1	1		

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

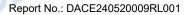
Dwell Time

Emissions in non-restricted frequency bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V2.0.0.0	1	/
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	/
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	/	DY
Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12
Vector signal generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal generator	Keysight	N5182A	MY50143455	2023-11-09	2024-11-08
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

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Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Farad	EZ -EMC	V1.1.42	1	/			
<u> </u>	MF-7802	<u>e</u> /	1	1			
ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	7			
COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04			
COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04			
ZHINAN	ZN30900C	ZN30900C	2021-07-05	2024-07-04			
Schwarzbeck	1	1.6	2024-02-19	2025-02-18			
Schwarzbeck	1		2024-02-19	2025-02-18			
Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19			
Schwarzbeck	SYV-50-3-1	/	2024-03-20	2025-03-19			
Schwarzbeck	BBV9743	9743-151	2023-06-13	2024-06-12			
Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12			
R&S	CMW500	113410	2023-06-13	2024-06-12			
R&S	FSP30	1321.3008K40 -101729-jR	2023-06-14	2024-06-13			
Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12			
Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20			
R&S	ESCI	102109	2023-06-13	2024-06-12			
	Farad / ZHINAN COM-POWER COM-POWER ZHINAN Schwarzbeck Schwarzbeck Schwarzbeck Schwarzbeck Schwarzbeck R&S R&S R&S Sunol Sciences Sunol Sciences	Farad EZ -EMC / MF-7802 ZHINAN OQHPF1-M1.5- 18G-224 COM-POWER AH-1840 ZHINAN ZN30900C Schwarzbeck / Schwarzbeck / Schwarzbeck AK9515E Schwarzbeck SYV-50-3-1 Schwarzbeck BBV9743 Schwarzbeck BBV9718 R&S CMW500 R&S FSP30 Sunol Sciences DRH-118 Sunol Sciences JB6 Antenna	Farad EZ -EMC V1.1.42 / MF-7802 / ZHINAN OQHPF1-M1.5-18G-224 6210075 COM-POWER AH-1840 10100008-1 COM-POWER AH-1840 (18-40G) 10100008 ZHINAN ZN30900C ZN30900C Schwarzbeck / / Schwarzbeck / / Schwarzbeck AK9515E 96250 Schwarzbeck SYV-50-3-1 / Schwarzbeck BBV9743 9743-151 Schwarzbeck BBV9718 9718-282 R&S CMW500 113410 R&S FSP30 1321.3008K40 -101729-jR Sunol Sciences DRH-118 A091114 Sunol Sciences JB6 Antenna A090414	Farad EZ -EMC V1.1.42 / / MF-7802 / / ZHINAN OQHPF1-M1.5-18G-224 6210075 / COM-POWER AH-1840 10100008-1 2022-04-05 COM-POWER AH-1840 (18-40G) 10100008 2023-04-05 ZHINAN ZN30900C ZN30900C 2021-07-05 Schwarzbeck / / 2024-02-19 Schwarzbeck / / 2024-02-19 Schwarzbeck AK9515E 96250 2024-03-20 Schwarzbeck SYV-50-3-1 / 2024-03-20 Schwarzbeck BBV9743 9743-151 2023-06-13 Schwarzbeck BBV9718 9718-282 2023-06-13 R&S CMW500 113410 2023-06-13 R&S FSP30 1321.3008K40 -101729-jR 2023-06-14 Sunol Sciences DRH-118 A091114 2023-05-13 Sunol Sciences JB6 Antenna A090414 2023-05-21			

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2.6 Statement Of The Measurement Uncertainty

Test Item	200	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	V	±3.41dB
Occupied Bandwidth		±3.63%
RF conducted power		±0.733dB
Duty cycle		±3.1%
Conducted Spurious emissions		±1.98dB
Radiated Emission (Above 1GHz)	J	±5.46dB
Radiated Emission (Below 1GHz)		±5.79dB
N ((A) TI () ()		

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration Number:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:



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4 Radio Spectrum Matter Test Results (RF)

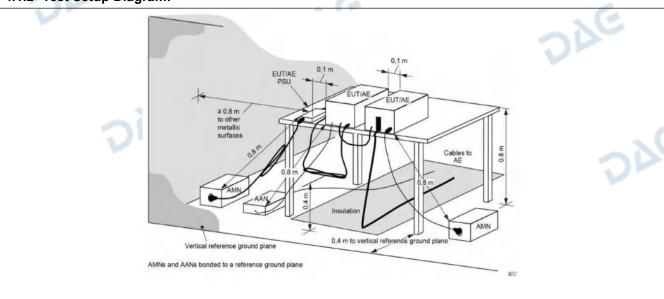
4.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).							
Test Limit:	Frequency of emission (MHz) Conducted limit (dBµV)							
		Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5 56 46 5-30 60 50							
	*Decreases with the logarithm of the frequency.							
Test Method:	ANSI C63.10-2013 section 6.2							
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices							

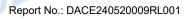
4.1.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 22.4 °C Humidity: 53.3 % Atmospheric Pressure: 101 kPa							
Pretest mode: TN			TM2		V			
Final test mode:		TM1						

4.1.2 Test Setup Diagram:



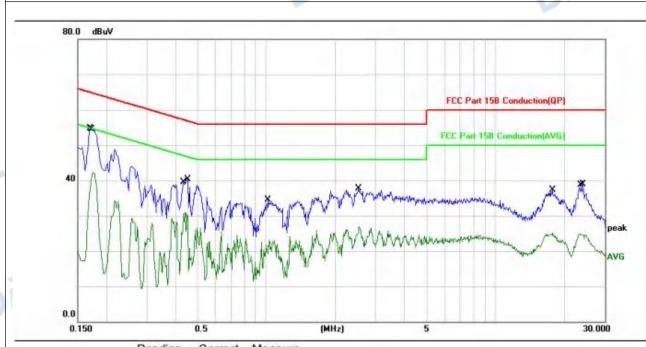
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4.1.3 Test Data:

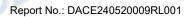
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L Power:AC120V60



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	44.76	10.03	54.79	64.96	-10.17	QP	
2		0.1740	32.43	10.03	42.46	54.76	-12.30	AVG	
3		0.4420	20.98	9.99	30.97	47.02	-16.05	AVG	
4		0.4540	30.25	9.99	40.24	56.80	-16.56	QP	
5		1.0180	24.64	9.90	34.54	56.00	-21.46	QP	
6		1.0300	13.15	9.90	23.05	46.00	-22.95	AVG	
7		2.5340	27.78	10.00	37.78	56.00	-18.22	QP	
8		2.5420	16.96	10.00	26.96	46.00	-19.04	AVG	
9		17.7460	26.91	10.46	37.37	60.00	-22.63	QP	
10		17.7460	14.62	10.46	25.08	50.00	-24.92	AVG	
11		23.4700	14.46	10.52	24.98	50.00	-25.02	AVG	
12		24.0260	28.31	10.52	38.83	60.00	-21.17	QP	

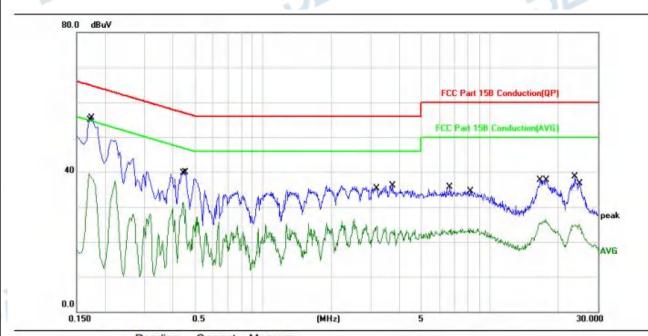
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L Power:AC120V60



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	29.42	10.03	39.45	54.96	-15.51	AVG	
2	*	0.1740	45.39	10.03	55.42	64.76	-9.34	QP	
3		0.4420	21.39	9.99	31.38	47.02	-15.64	AVG	
4		0.4540	29.83	9.99	39.82	56.80	-16.98	QP	
5		3.1660	14.54	10.04	24.58	46.00	-21.42	AVG	
6		3.7260	26.02	10.06	36.08	56.00	-19.92	QP	
7		6.6460	25.39	10.23	35.62	60.00	-24.38	QP	
8		8.0980	13.62	10.31	23.93	50.00	-26.07	AVG	
9		16.7180	27.33	10.47	37.80	60.00	-22.20	QP	
10		17.5860	16.00	10.46	26.46	50.00	-23.54	AVG	
11		23.7420	28.12	10.52	38.64	60.00	-21.36	QP	
12		24.7020	14.56	10.52	25.08	50.00	-24.92	AVG	

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4.2 Occupied Bandwidth

4.2 Occupied Bandy	viatn
Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak
Ve · e	of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
DIE	f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
DP.	i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the
DIE	same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.2.1 E.U.T. Operation:

Operating Environment:

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

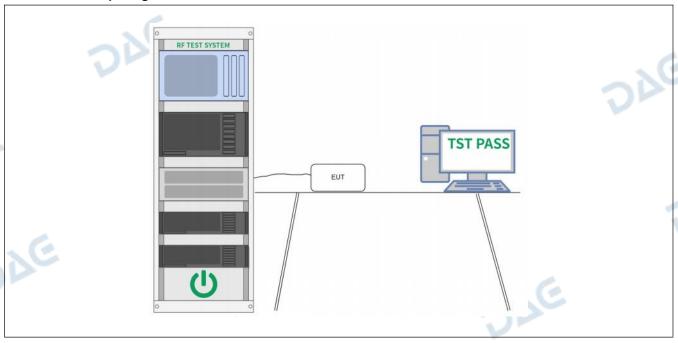
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Temperature: 22.4 °C	Humidity:	53.3 %	Atmospheric Pressure:	101 kPa
Pretest mode:	TM1, TM2			7/6
Final test mode:	TM1, TM2	V		2

4.2.2 Test Setup Diagram:

V1.0



4.2.3 Test Data:

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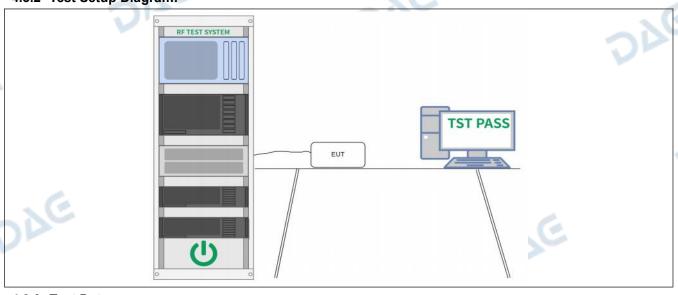
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(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 Method:	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured.
,	3) VBW >= RBW. 4) Sweep: Auto.
.e	5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize.
	c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
-xe	e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.
4.3.1 E.U.T. Operation:	16

4.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	22.4 °C		Humidity:	53.3 %	Atmospheric Pressure:	101 kPa		
Pretest mode:		TM1,	TM2					
Final test mode: TM1, TM2								

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

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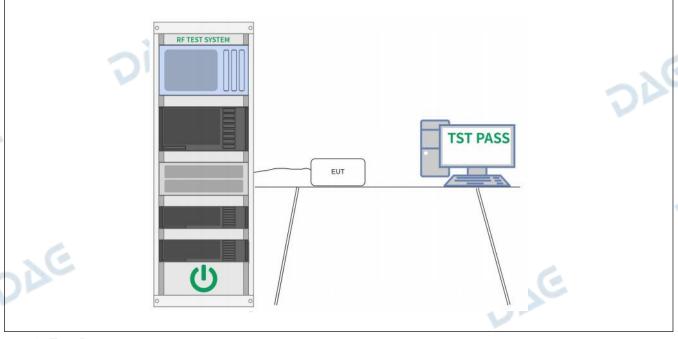
4.4 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), 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 Method:	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW.
Ve Ve	d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Environment:										
Temperature:	Temperature: 22.4 °C		Humidity:	53.3 %		Atmospheric Pressure:	101 kPa			
Pretest mode:		TM3,	TM4	- 3	C		. 6			
Final test mode: TM3			TM4	OF			200			

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

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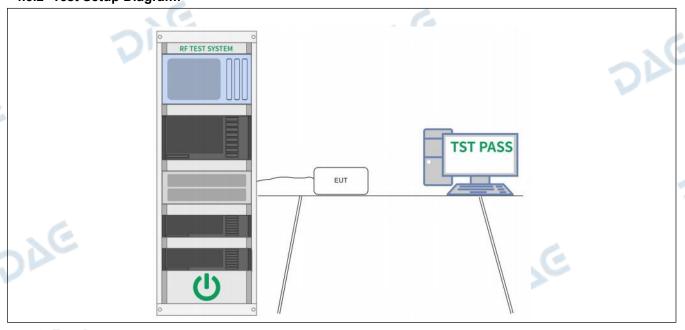
4.5 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

4.5.1 E.U.T. Operation:

Operating Environment:											
Temperature:	re: 22.4 °C		Humidity:	53.3 %	7	Atmospheric Pressure:	101 kPa				
Pretest mode:		TM3,	TM4	V			OP				
Final test mode:	:	TM3,	TM4								

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

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4.6 Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal
DÀ	to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

Report No.: DACE240520009RL001

4.6.1 E.U.T. Operation:

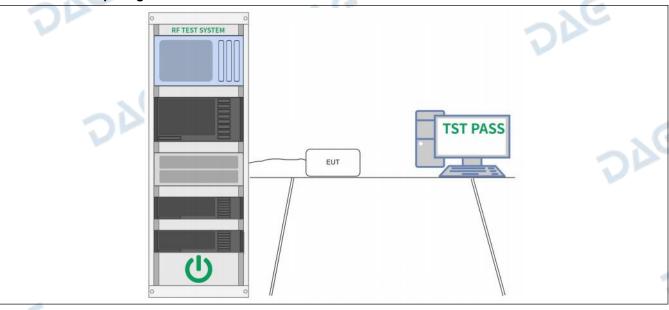
Operating Environment:									
Temperature:	nperature: 22.4 °C		Humidity:	53.3 %	Atmospheric Pressure:	101 kPa			
Pretest mode:	TM3,	TM4							
Final test mode:	TM3,	TM4	6						

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4.6.2 Test Setup Diagram:



4.6.3 Test Data:

DAG

DAG

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DIE



4.7 Emissions in non-restricted frequency bands

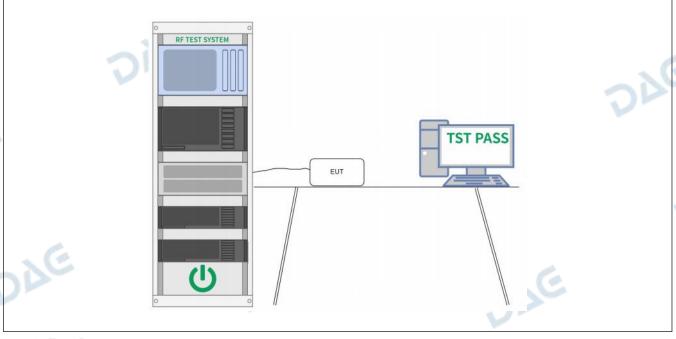
V1.0

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

4.7.1 E.U.T. Operation:

Operating Environment:										
Temperature: 22.4 °C		Humidity:	53.3 %		Atmospheric Pressure:	101 kPa				
Pretest mode:	TM1,	TM2, TM3, 7	ГМ4	C						
Final test mode: TM1		TM2, TM3,	ГМ4			200				

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

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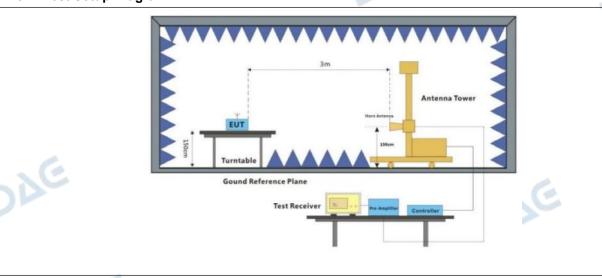
4.8 Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defin	(d), In addition, radiated emissioned in § 15.205(a), must also coin § 15.209(a)(see § 15.205(c)).	mply with the radiated
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
1	Above 960	500	3
DE	radiators operating unde 54-72 MHz, 76-88 MHz, these frequency bands is and 15.241. In the emission table about the emission limits show employing a CISPR quart 110–490 kHz and above	paragraph (g), fundamental eminated reminated	d in the frequency bands However, operation within of this part, e.g., §§ 15.231 e band edges. on measurements requency bands 9–90 kHz, imits in these three bands
	are based on measurem	ents employing an average dete	ector.
Test Method:	ANSI C63.10-2013 secti KDB 558074 D01 15.247	on 6.10 7 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 secti	on 6.10.5.2	16

4.8.1 E.U.T. Operation:

Operating Environment:										
Temperature:	22.4 °C		Humidity:	53.3 %	Atmospheric Pressure:	101 kPa				
Pretest mode:		TM1,	TM2		. 6					
Final test mode:										

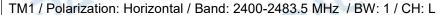
4.8.2 Test Setup Diagram:

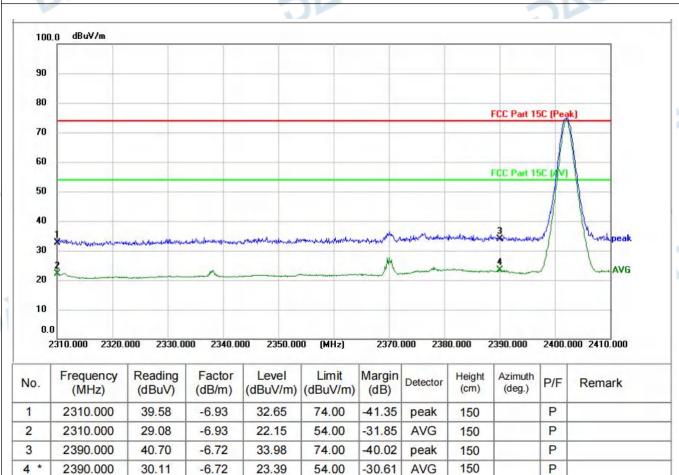


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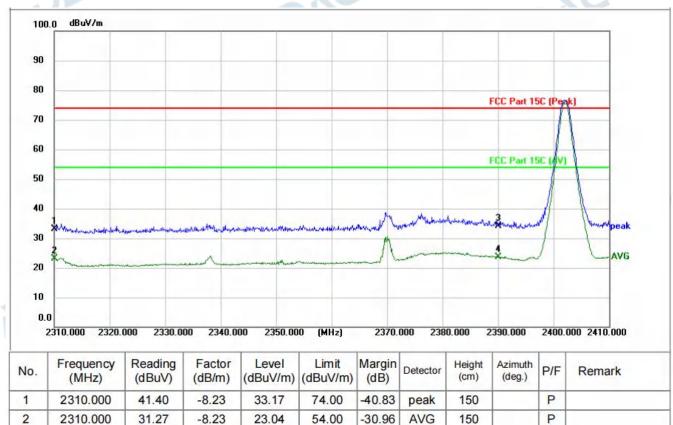
4.8.3 Test Data:







TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

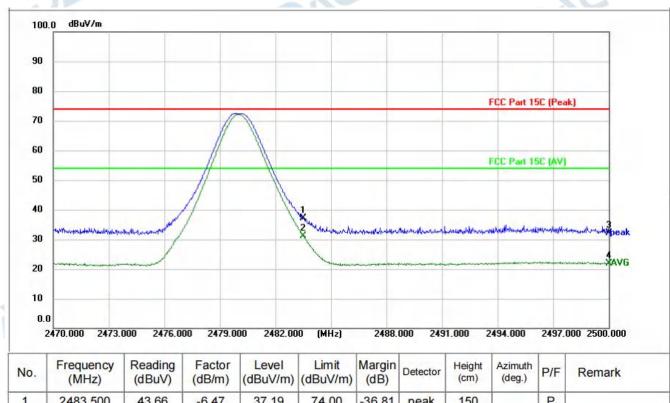


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	41.40	-8.23	33.17	74.00	-40.83	peak	150		Р	
2	2310.000	31.27	-8.23	23.04	54.00	-30.96	AVG	150		Р	
3	2390.000	42.04	-7.91	34.13	74.00	-39.87	peak	150		Р	
4 *	2390.000	31.54	-7.91	23.63	54.00	-30.37	AVG	150		Р	

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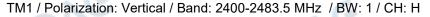


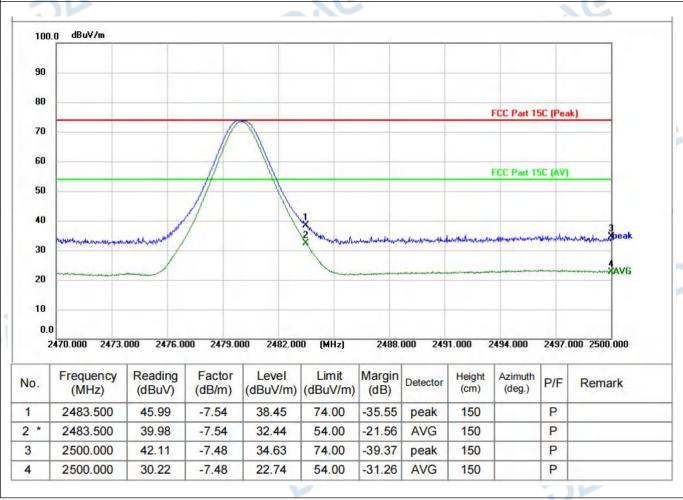
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	43.66	-6.47	37.19	74.00	-36.81	peak	150		Р	
2 *	2483.500	37.69	-6.47	31.22	54.00	-22.78	AVG	150		Р	
3	2500.000	38.47	-6.43	32.04	74.00	-41.96	peak	150		Р	
4	2500.000	28.34	-6.43	21.91	54.00	-32.09	AVG	150		Р	

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Remark: The test software will only record the worst test angle and height, and only the worst case will be displayed in the test report.

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4.9 Emissions in frequency bands (below 1GHz)

Test Requirement:		(d), In addition, radiated emissions ned in § 15.205(a), must also com	
		in § 15.209(a)(see § 15.205(c)).`	pry with the radiated
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
		paragraph (g), fundamental emiss r this section shall not be located	
	and 15.241. In the emission table about the emission limits show employing a CISPR quart 110–490 kHz and above	ove, the tighter limit applies at the vn in the above table are based or si-peak detector except for the free 1000 MHz. Radiated emission liments employing an average detections.	band edges. In measurements In measurements In measurements In these three bands
Test Method:	ANSI C63.10-2013 secti KDB 558074 D01 15.247	on 6.6.4 7 Meas Guidance v05r02	_
Procedure:	above the ground at a 3 360 degrees to determin b. For above 1GHz, the above the ground at a 3 degrees to determine the c. The EUT was set 3 or which was mounted on t	EUT was placed on the top of a ro or 10 meter semi-anechoic chamble the position of the highest radial EUT was placed on the top of a rometer fully-anechoic chamber. The position of the highest radiation. 10 meters away from the interference top of a variable-height antennal.	per. The table was rotated tion. Intating table 1.5 meters table was rotated 360 ence-receiving antenna, a tower.
	determine the maximum polarizations of the anter e. For each suspected e the antenna was tuned to below 30MHz, the anten was turned from 0 degree f. The test-receiver system Bandwidth with Maximur g. If the emission level or	f the EUT in peak mode was 10dE	orizontal and vertical ment. o its worst case and then is (for the test frequency cand the rotatable table imum reading. on and Specified
	reported. Otherwise the tested one by one using reported in a data sheet. h. Test the EUT in the low i. The radiation measure Transmitting mode, and j. Repeat above procedu Remark:	buld be stopped and the peak valuemissions that did not have 10dB peak, quasi-peak or average methodes the channel, the middle channel, ments are performed in X, Y, Z ax found the X axis positioning which res until all frequencies measured GHz, through pre-scan found the N	margin would be re- hod as specified and ther the Highest channel. is positioning for it is the worst case. I was complete.

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channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

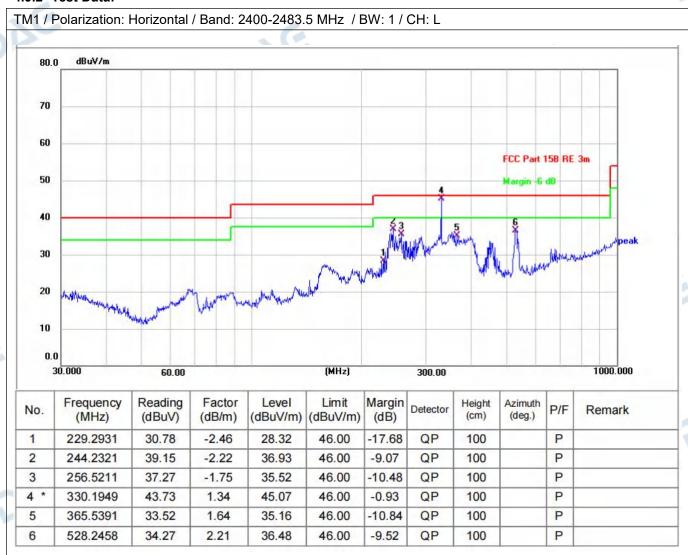
Report No.: DACE240520009RL001

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.9.1 E.U.T. Operation:

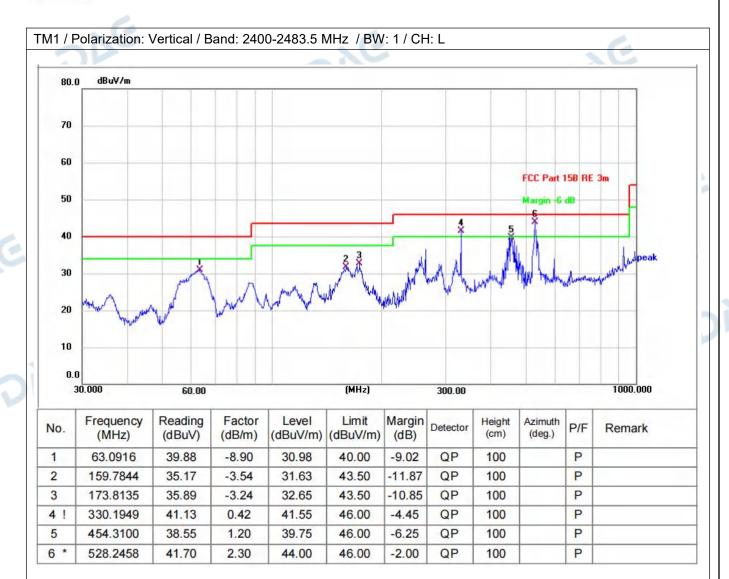
Operating Environment:												
Temperature:	22.4 °C	_ >	Humidity:	53.3 %	Atmospheric Pressure:	101 kPa						
Pretest mode:		TM1,	TM2		. 6							
Final test mode: TM1												

4.9.2 Test Data:



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Remark: The test software will only record the worst test angle and height, and only the worst case will be displayed in the test report.

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4.10 Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted bar y with the radiated emission limits	
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	The emission limits shown in employing a CISPR quasi-public 110–490 kHz and above 10	, the tighter limit applies at the ba n the above table are based on n leak detector except for the frequ 00 MHz. Radiated emission limits s employing an average detector	neasurements ency bands 9–90 kHz, s in these three bands
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247 M		
Procedure:	above the ground at a 3 or 360 degrees to determine the b. For above 1GHz, the EU above the ground at a 3 medegrees to determine the poc. The EUT was set 3 or 10 which was mounted on the d. The antenna height is varied determine the maximum varied polarizations of the antenna e. For each suspected emisting the antenna was tuned to he	T was placed on the top of a rotal 10 meter semi-anechoic chamber he position of the highest radiation. T was placed on the top of a rotal ter fully-anechoic chamber. The tosition of the highest radiation, meters away from the interference top of a variable-height antennal tried from one meter to four meter lue of the field strength. Both horial are set to make the measurement is sion, the EUT was arranged to its eights from 1 meter to 4 meters (was tuned to heights 1 meter) and	r. The table was rotated n. ting table 1.5 meters table was rotated 360 ce-receiving antenna, tower. The above the ground to izontal and vertical ent. The worst case and then for the test frequency of
	was turned from 0 degrees f. The test-receiver system Bandwidth with Maximum F. g. If the emission level of th specified, then testing could reported. Otherwise the em tested one by one using pereported in a data sheet. h. Test the EUT in the lowes i. The radiation measureme Transmitting mode, and fou j. Repeat above procedures Remark:	to 360 degrees to find the maxim was set to Peak Detect Function	num reading. and Specified ower than the limit s of the EUT would be argin would be re- d as specified and then he Highest channel. positioning for is the worst case. was complete.

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channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.10.1 E.U.T. Operation:

Operating Environment:												
Temperature:	22.4 °C	_ >	Humidity:	53.3 %	Atmospheric Pressure:	101 kPa						
Pretest mode:		TM1,	TM2		. 6							
Final test mode: TM1												

4.10.2Test Data:
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

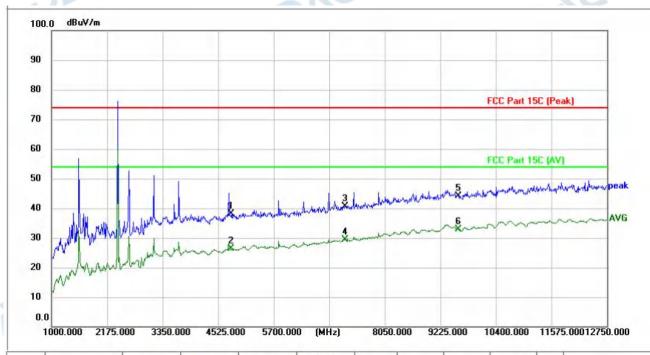
80									FCC Part 1!	5C (Pea	k)	
70												
60									FCC Part 15	SC (AV)		
50									447		الماسينية الماسينة	oeak
40 30	MANAMANIAMI	halad	k	and produced and better and	wandhada da	and harborne	in hadd	~ §		- marin	mm	AVG
	la distall	Jan Jan										
10	Moham											
10 0.0			00 4525.0	DO 5700.00	0 (MHz)	8050.	000 922	5.000 1	10400.000	11575	.00012750	.000
10 0.0	o		Factor (dB/m)	Level	0 (MHz) Limit (dBuV/m) 74.00	8050. Margin (dB)		Height (cm)	Azimuth (deg.)	11575 P/F	.00012750 Remai	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4804.000	38.48	-0.90	37.58	74.00	-36.42	peak	150		Р	
2	4804.000	27.21	-0.90	26.31	54.00	-27.69	AVG	150		Р	
3	7206.000	37.64	4.13	41.77	74.00	-32.23	peak	150		Р	
4	7206.000	25.28	4.13	29.41	54.00	-24.59	AVG	150		Р	
5	9608.000	35.30	8.09	43.39	74.00	-30.61	peak	150		Р	
6 *	9608.000	24.73	8.09	32.82	54.00	-21.18	AVG	150		Р	

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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



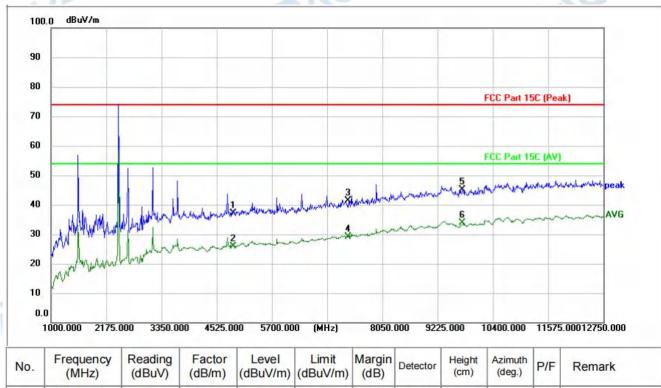
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4804.000	38.44	-0.28	38.16	74.00	-35.84	peak	150		Р	
2	4804.000	26.54	-0.28	26.26	54.00	-27.74	AVG	150		Р	
3	7206.000	36.58	4.09	40.67	74.00	-33.33	peak	150		Р	
4	7206.000	25.18	4.09	29.27	54.00	-24.73	AVG	150		Р	
5	9608.000	36.15	8.02	44.17	74.00	-29.83	peak	150		Р	
6 *	9608.000	24.81	8.02	32.83	54.00	-21.17	AVG	150		Р	

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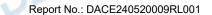


TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



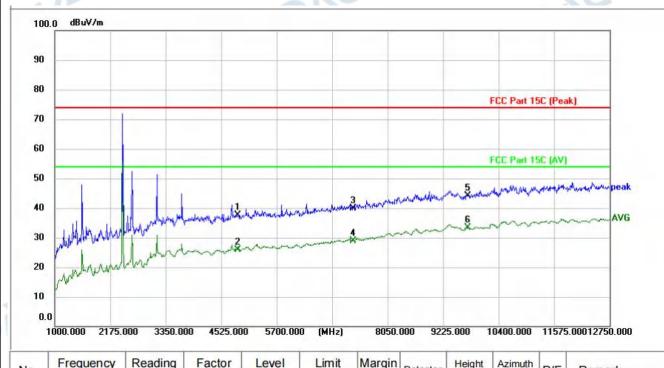
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4882.000	37.08	-0.03	37.05	74.00	-36.95	peak	150		Р	
2	4882.000	25.98	-0.03	25.95	54.00	-28.05	AVG	150		Р	
3	7323.000	37.09	4.36	41.45	74.00	-32.55	peak	150		Р	
4	7323.000	24.76	4.36	29.12	54.00	-24.88	AVG	150		Р	
5	9764.000	37.05	8.13	45.18	74.00	-28.82	peak	150		Р	
6 *	9764.000	25.65	8.13	33.78	54.00	-20.22	AVG	150		Р	

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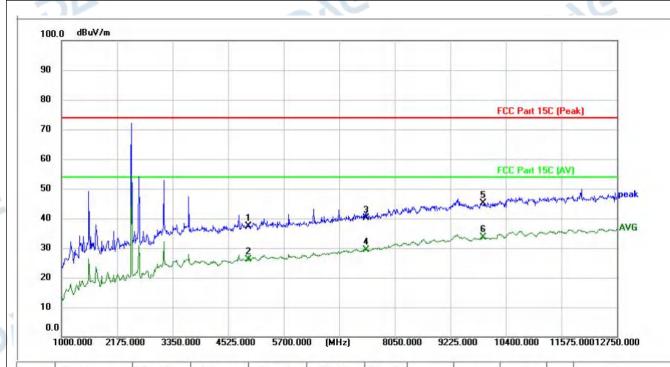
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4882.000	38.37	-0.64	37.73	74.00	-36.27	peak	150		Р	
2	4882.000	26.57	-0.64	25.93	54.00	-28.07	AVG	150		Р	
3	7323.000	35.52	4.31	39.83	74.00	-34.17	peak	150		Р	
4	7323.000	24.64	4.31	28.95	54.00	-25.05	AVG	150		Р	
5	9764.000	35.95	8.09	44.04	74.00	-29.96	peak	150		Р	
6 *	9764.000	25.38	8.09	33.47	54.00	-20.53	AVG	150		Р	

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TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

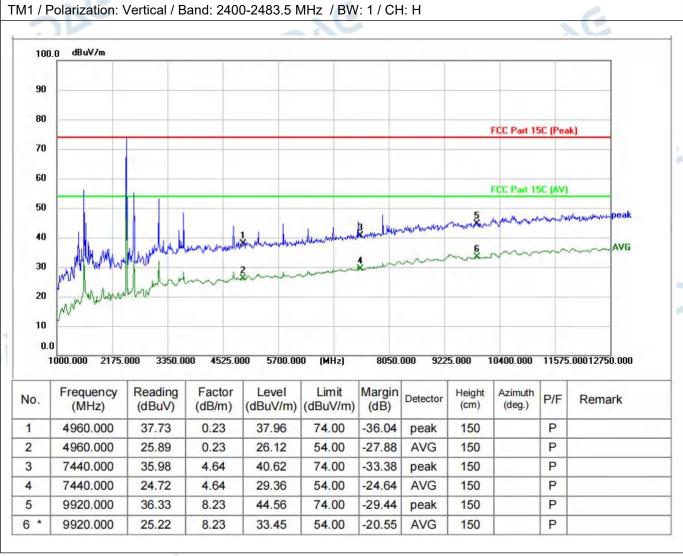


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4960.000	37.71	-0.37	37.34	74.00	-36.66	peak	150		Р	
2	4960.000	26.41	-0.37	26.04	54.00	-27.96	AVG	150		Р	
3	7440.000	35.72	4.49	40.21	74.00	-33.79	peak	150		Р	
4	7440.000	24.96	4.49	29.45	54.00	-24.55	AVG	150		Р	
5	9920.000	37.14	8.08	45.22	74.00	-28.78	peak	150		Р	
6 *	9920.000	25.53	8.08	33.61	54.00	-20.39	AVG	150		Р	

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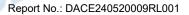




Remark: The test software will only record the worst test angle and height, and only the worst case will be displayed in the test report.

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5 TEST SETUP PHOTOS

Reference to the Test setup file for details.

6 PHOTOS OF THE EUT

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Reference to the external photos file and internal photos file for details.

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Appendix

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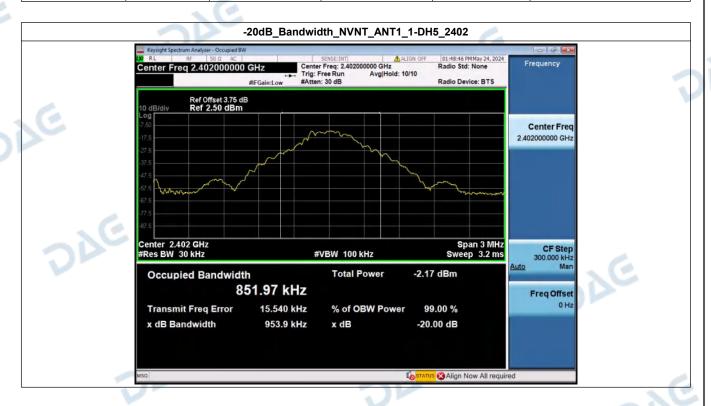
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HT240520006---C18--EDR--FCC FCC_BT (Part15.247) Test Data

1. -20dB Bandwidth

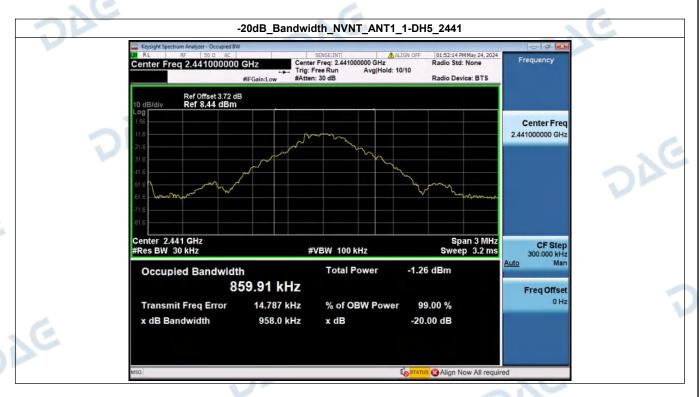
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402	0.954	No
NVNT	ANT1	1-DH5	2441	0.958	No
NVNT	ANT1	1-DH5	2480	0.955	No
NVNT	ANT1	2-DH5	2402	1.284	Yes
NVNT	ANT1	2-DH5	2441	1.286	Yes
NVNT	ANT1	2-DH5	2480	1.284	Yes



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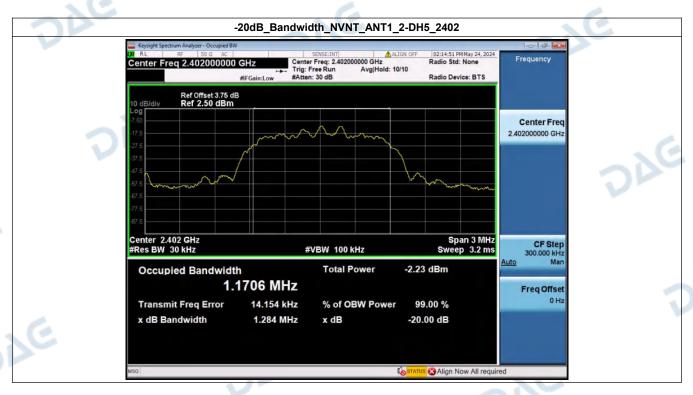
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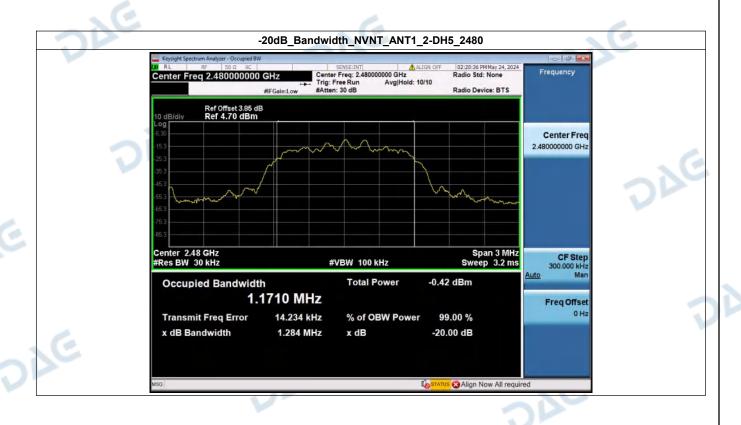
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V1.0



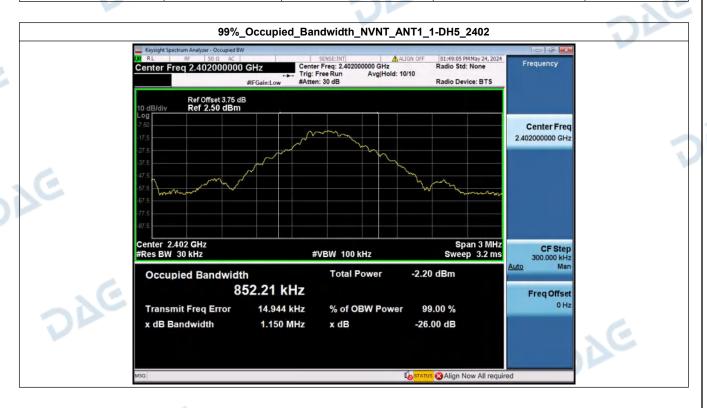
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2. 99% Occupied Bandwidth

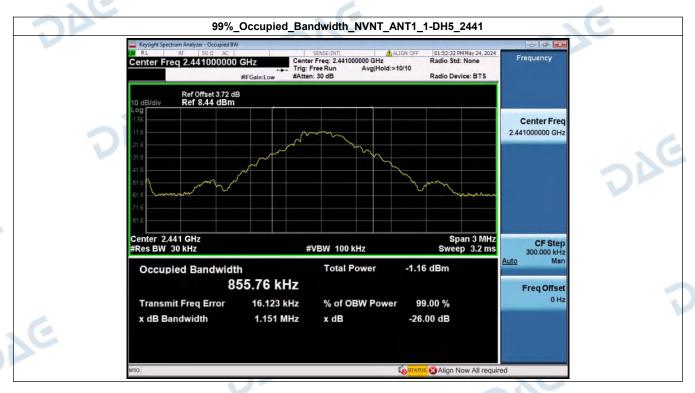
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402	0.852
NVNT	ANT1	1-DH5	2441	0.856
NVNT	ANT1	1-DH5	2480	0.855
NVNT	ANT1	2-DH5	2402	1.170
NVNT	ANT1	2-DH5	2441	1.170
NVNT	ANT1	2-DH5	2480	1.170

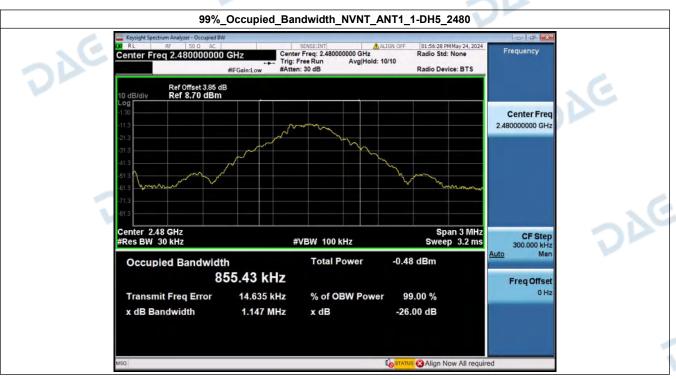
Report No.: DACE240520009RL001



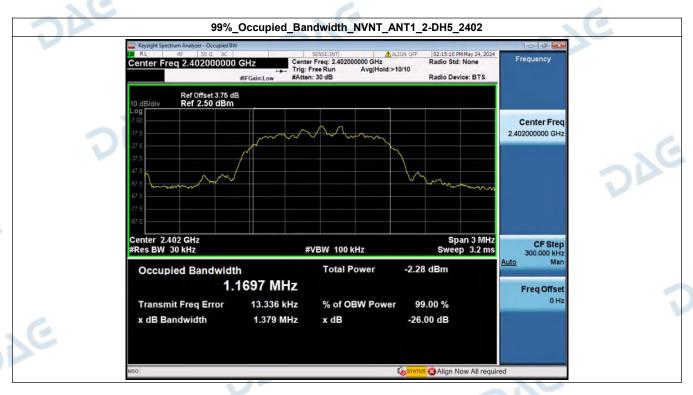
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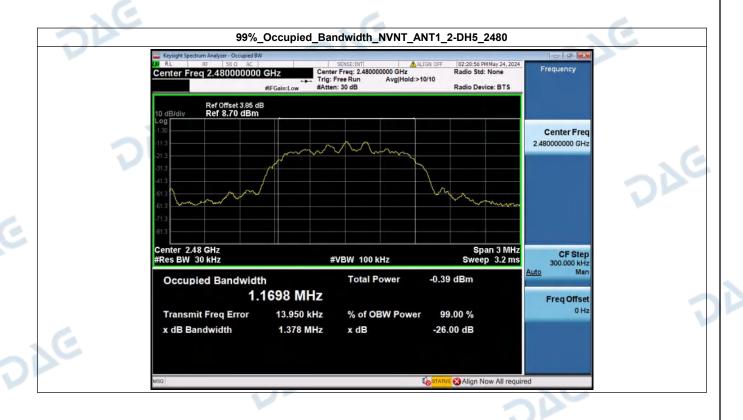
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V1.0



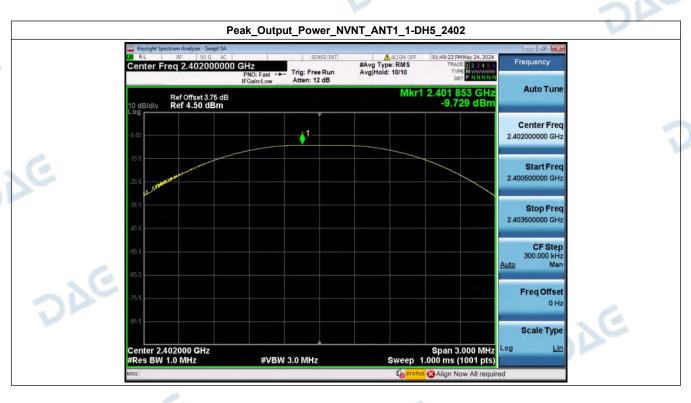
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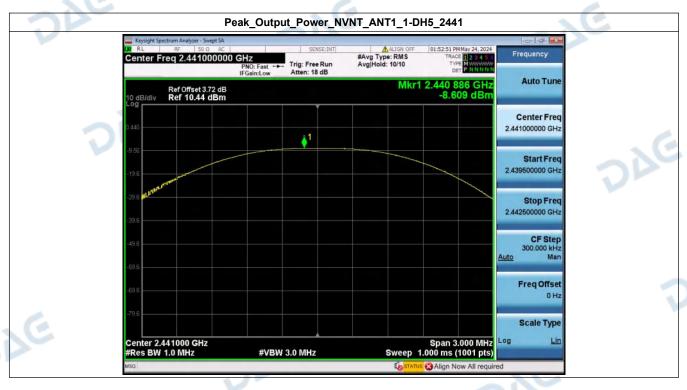
3. Peak Output Power

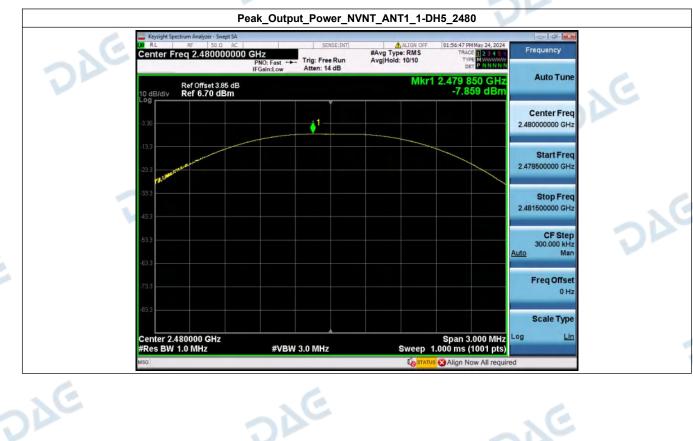
Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402	-9.73	0.11	1000	Pass
NVNT	ANT1	1-DH5	2441	-8.61	0.14	1000	Pass
NVNT	ANT1	1-DH5	2480	-7.86	0.16	1000	Pass
NVNT	ANT1	2-DH5	2402	-8.43	0.14	125	Pass
NVNT	ANT1	2-DH5	2441	-7.30	0.19	125	Pass
NVNT	ANT1	2-DH5	2480	-6.60	0.22	125	Pass



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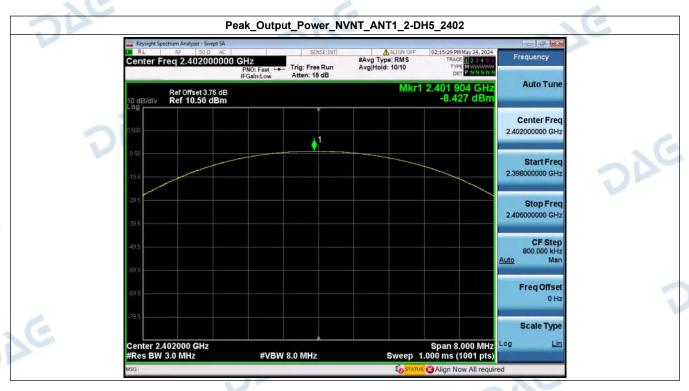


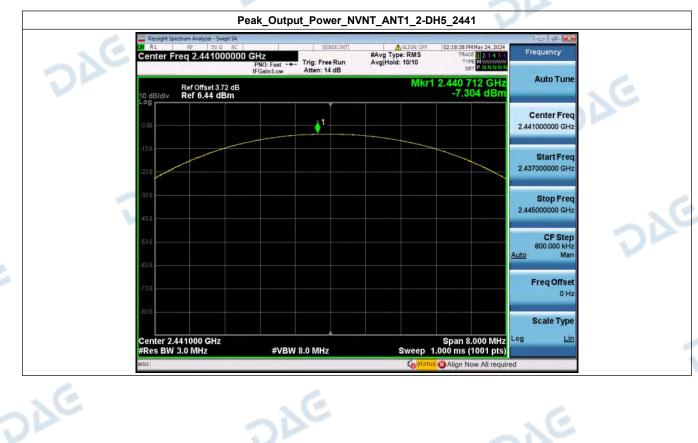






V1.0



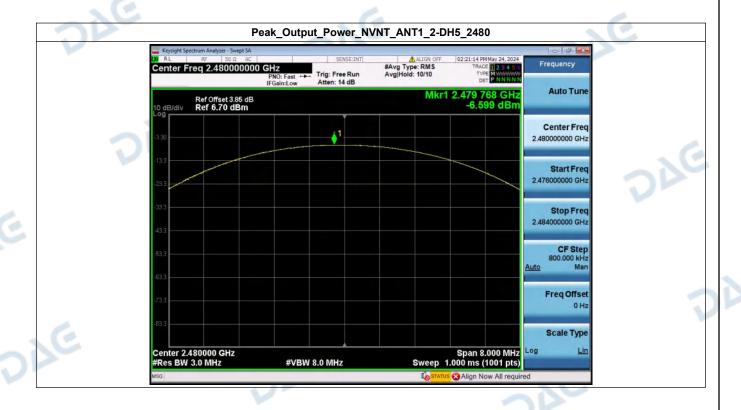




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V1.0



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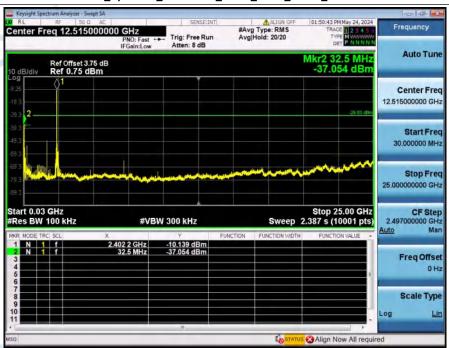
4. Spurious Emissions

V1.0

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402	-37.054	-29.833	Pass
NVNT	ANT1	1-DH5	2441	-36.470	-28.767	Pass
NVNT	ANT1	1-DH5	2480	-37.153	-27.929	Pass
NVNT	ANT1	2-DH5	2402	-38.308	-29.630	Pass
NVNT	ANT1	2-DH5	2441	-37.782	-28.410	Pass
NVNT	ANT1	2-DH5	2480	-37.970	-27.721	Pass



2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402



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V1.0





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441



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V1.0



2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480



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4

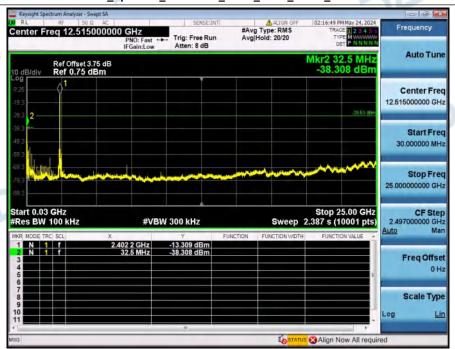
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V1.0





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402





V1.0





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441



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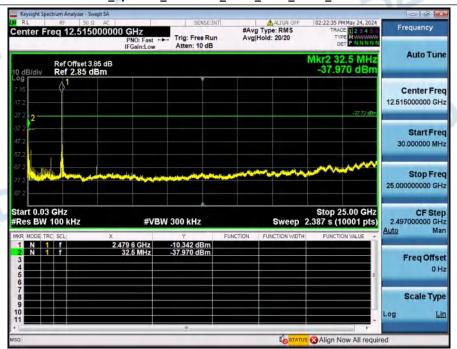
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V1.0





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480



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5. Bandedge

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Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402	-54.658	-29.833	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-49.997	-27.901	Pass
NVNT	ANT1	1-DH5	2480	-56.601	-27.929	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-48.974	-27.954	Pass
NVNT	ANT1	2-DH5	2402	-56.431	-29.630	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-54.863	-27.918	Pass
NVNT	ANT1	2-DH5	2480	-57.126	-27.721	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-49.559	-27.603	Pass

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2_Bandedge_NVNT_ANT1_1-DH5_2402



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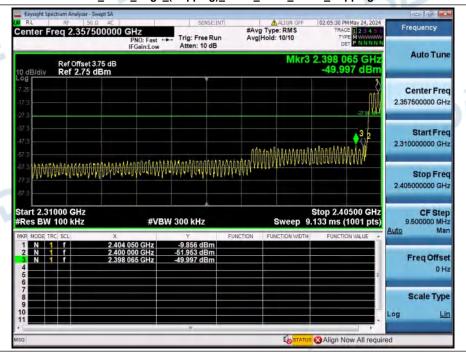


V1.0

1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping



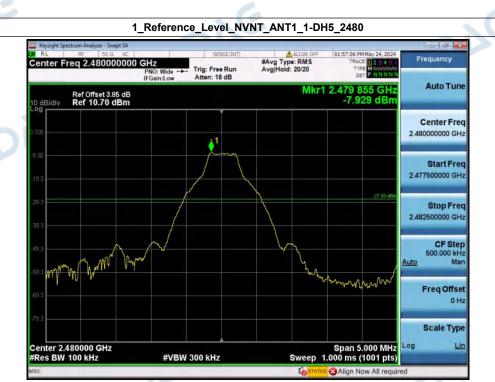
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping



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4

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2_Bandedge_NVNT_ANT1_1-DH5_2480



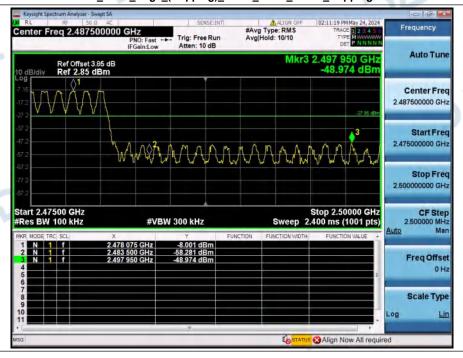
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V1.0





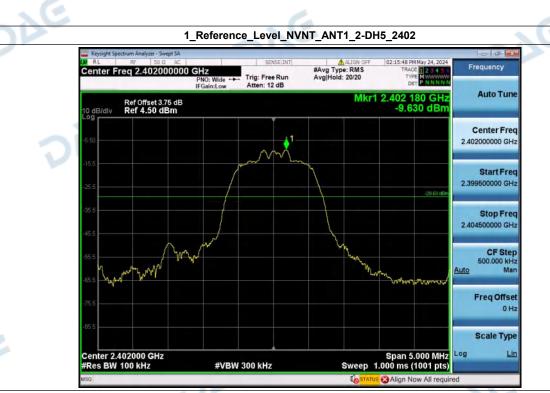
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping



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2_Bandedge_NVNT_ANT1_2-DH5_2402



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V1.0

1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping



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0 Hz

Scale Type

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Center 2.480000 GHz #Res BW 100 kHz



Span 5.000 MHz Sweep 1.000 ms (1001 pts)

2_Bandedge_NVNT_ANT1_2-DH5_2480

#VBW 300 kHz



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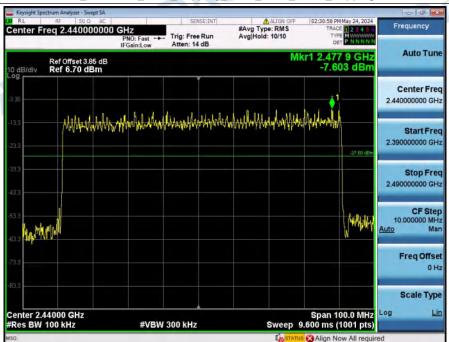


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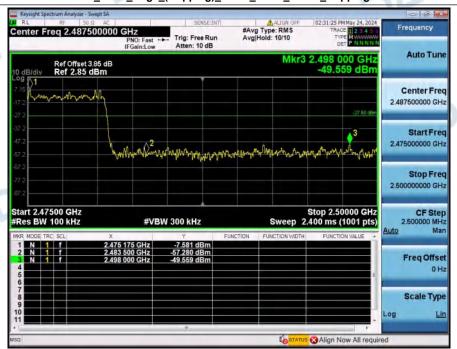
DAG

V1.0





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping



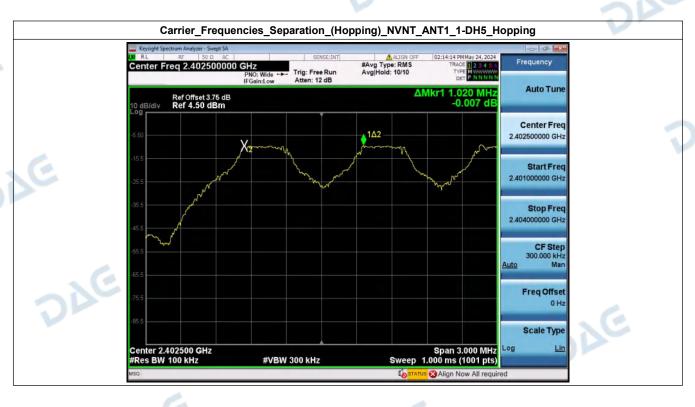
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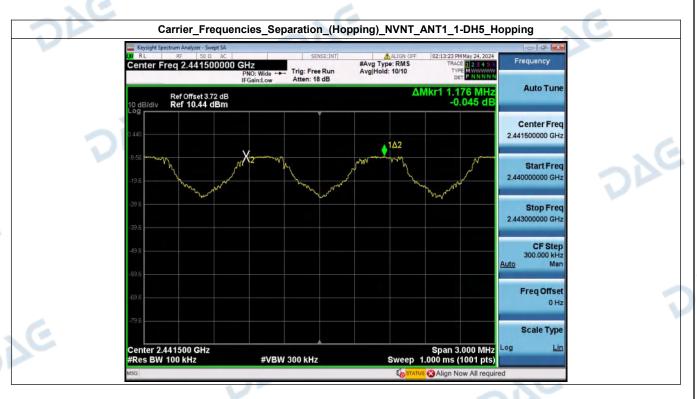
6. Carrier Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402	2401.840	2402.860	1.02	0.954	Pass
NVNT	ANT1	1-DH5	2441	2440.876	2442.052	1.18	0.958	Pass
NVNT	ANT1	1-DH5	2480	2478.840	2480.169	1.33	0.955	Pass
NVNT	ANT1	2-DH5	2402	2401.861	2402.869	1.01	0.856	Pass
NVNT	ANT1	2-DH5	2441	2440.849	2442.184	1.33	0.857	Pass
NVNT	ANT1	2-DH5	2480	2479.179	2480.175	1.00	0.856	Pass



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V1.0



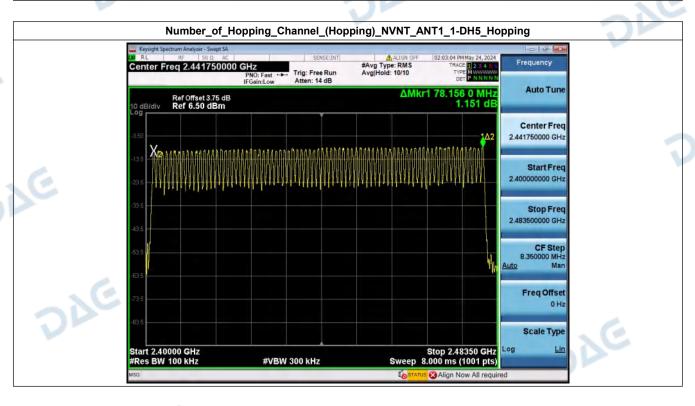
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7. Number of Hopping Channel (Hopping)

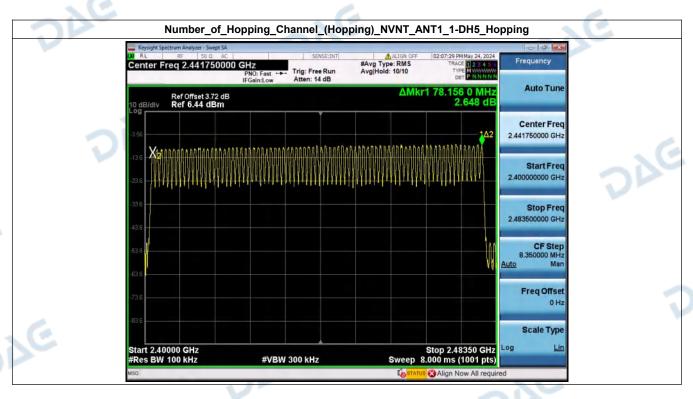
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass

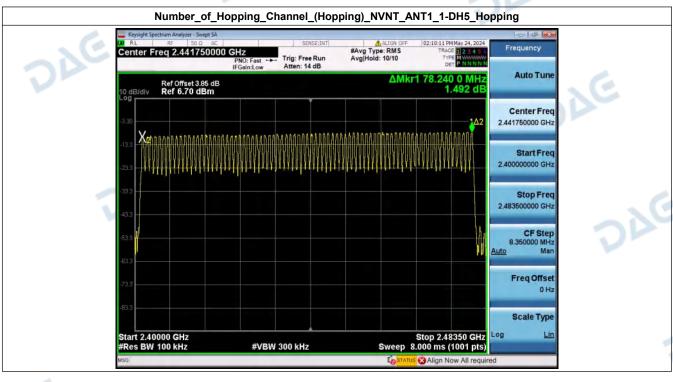


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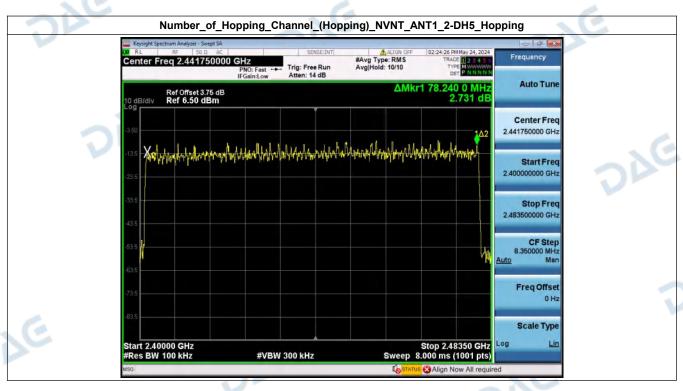


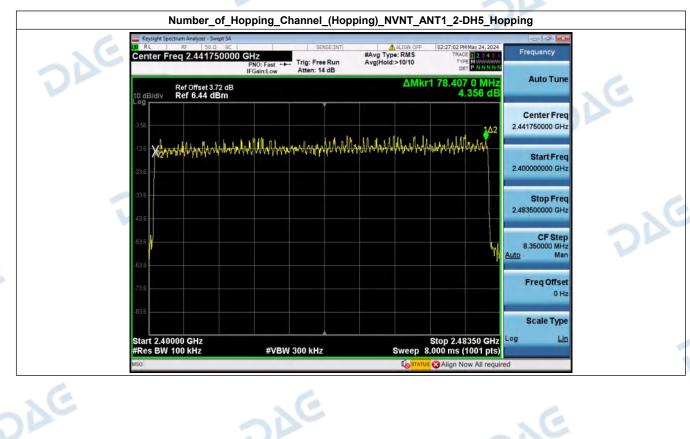
V1.0







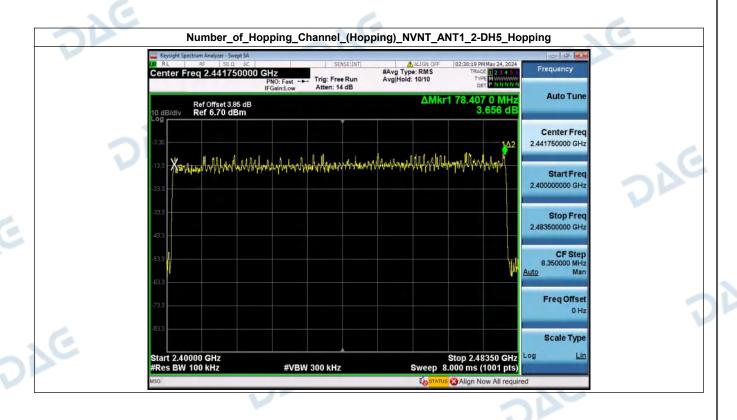




DAG

DAG

V1.0



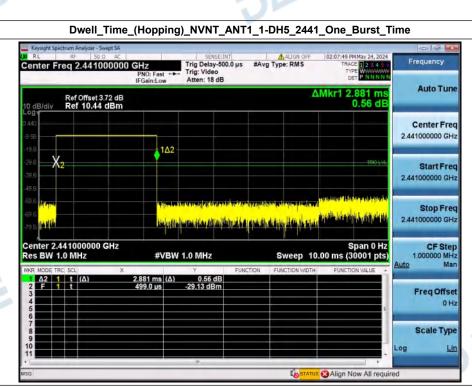
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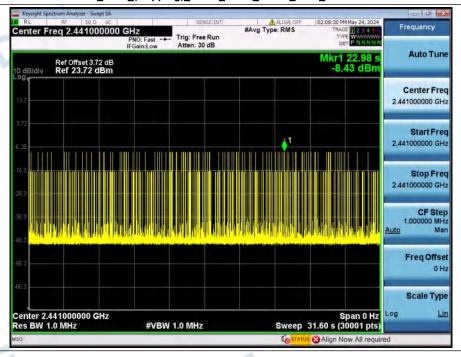
8. Dwell Time (Hopping)

V1.0

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.881	103.00	296.743	0.40	Pass
NVNT	ANT1	2-DH5	2.887	108.00	311.796	0.40	Pass
NVNT	ANT1	1-DH1	0.377	319.00	120.263	0.40	Pass
NVNT	ANT1	1-DH3	1.633	153.00	249.849	0.40	Pass
NVNT	ANT1	2-DH1	0.387	320.00	123.840	0.40	Pass
NVNT	ANT1	2-DH3	1.639	163.00	267.157	0.40	Pass



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_Accumulated



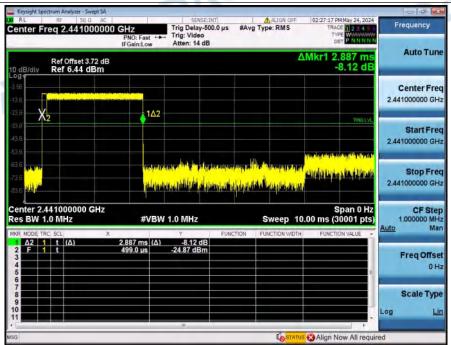
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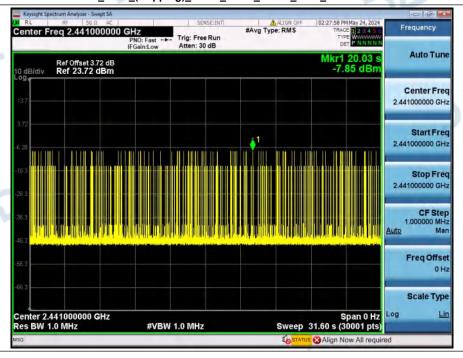
DAG

V1.0





Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_Accumulated



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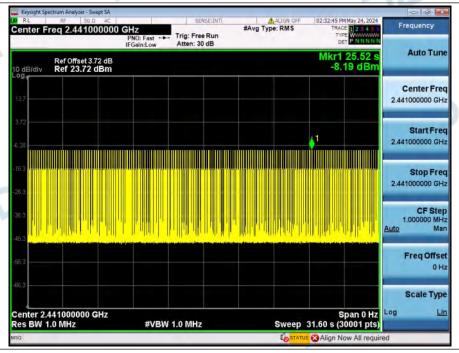


V1.0





Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_Accumulated



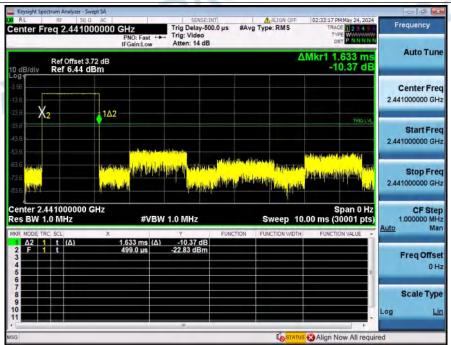
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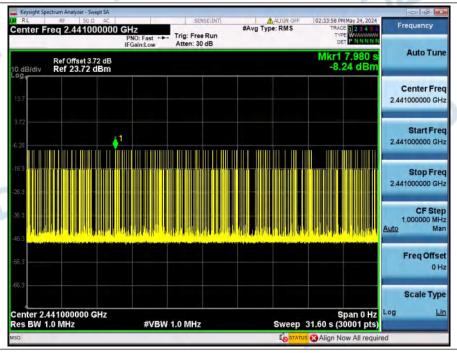
DAG

V1.0





Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_Accumulated

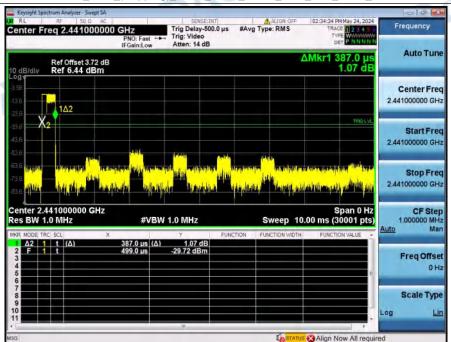


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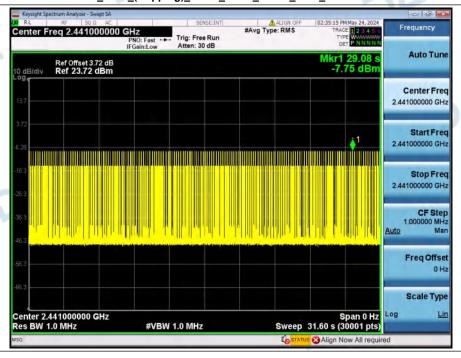


V1.0





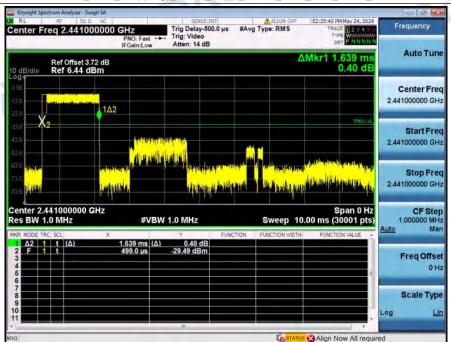
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_Accumulated



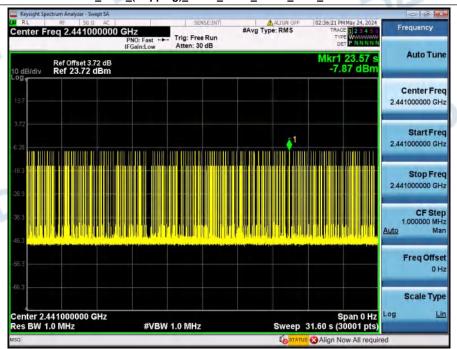
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Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_Accumulated



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