

RF TEST REPORT

For

Dongguan Hua Jia Century Electronic Technology Co., Ltd. Product Name: Bluetooth headset

Test Model(s): S6

Report Reference No. : DACE250412030RL001

FCC ID : 2BOYF-S6

Applicant's Name : Dongguan Hua Jia Century Electronic Technology Co., Ltd.

Address : Room 301, Building 1, Qingtang Industrial Fourth Road, Fenggang Town,

Dongguan City, Guangdong Province

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

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,

Address : Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,

Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : April 12, 2025

Date of Test : April 12, 2025 to April 22, 2025

Data of Issue : April 22, 2025

Result : Pass

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000004449

Apply for company information

Applicant's Name	:	Dongguan Hua Jia Century Electronic Technology Co., Ltd.				
Address	:	Room 301, Building 1, Qingtang Industrial Fourth Road, Fenggang Town, Dongguan City, Guangdong Province				
Product Name	:	Bluetooth headset				
Test Model(s)	:	S6				
Series Model(s)	:	N/A				
Test Specification Standard(s)	:	47 CFR Part 15.247				

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.

Compiled by:

Keren Huang

Keren Huang / Test Engineer

April 22, 2025

Supervised by:

Stone yin

Stone Yin / Project Engineer

April 22, 2025

en / Manager

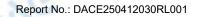
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Version	Description	REPORT No.	Issue Date		
V1.0	Original	DACE250412030RL001	April 22, 2025		
		-16			
		2	_ 1/6		
			2		

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TEST SUMMARY

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	Method	Requirement	Result
Antenna requirement	/	47 CFR 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2020 section 6.2	47 CFR 15.207(a)	Pass
20dB Bandwidth	ANSI C63.10-2020, section 7.8.6 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Maximum Conducted Output Power	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(1)	Pass
Channel Separation	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	ANSI C63.10-2020, 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	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	ANSI C63.10-2020 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)	ANSI C63.10-2020 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)	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item

2. RF-conducted test results including cable loss.

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2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Dongguan Hua Jia Century Electronic Technology Co., Ltd.

Address : Room 301, Building 1, Qingtang Industrial Fourth Road, Fenggang Town,

Dongguan City, Guangdong Province

Manufacturer : Dongguan Hua Jia Century Electronic Technology Co., Ltd.

Address : Room 301, Building 1, Qingtang Industrial Fourth Road, Fenggang Town,

Dongguan City, Guangdong Province

2.2 Description of Device (EUT)

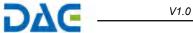
Product Name:	Bluetooth headset
Model/Type reference:	S6
Series Model:	N/A
Trade Mark:	N/A
Product Description:	Bluetooth headset
Power Supply:	DC3.7V from battery
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	Chip Antenna
Antenna Gain:	2.7dBi
Hardware Version:	V1
Software Version:	BT_TEST TOOL V2.0

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
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

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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	/	/

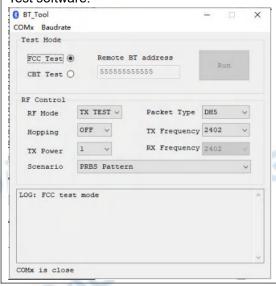
Note:In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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

2.3 Description of Test Modes

TX-GFSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation at lowest, middle and highest channel.
TX-Pi/4DQPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation at lowest, middle and highest channel.
TX-8DPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation at lowest, middle and highest channel.
TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
Charging mode	Charging mode
H 7 H 7 (7 -	Hopping) TX-Pi/4DQPSK (Non-Hopping) TX-8DPSK (Non-Hopping) TX-GFSK (Hopping) TX-Pi/4DQPSK Hopping) TX-8DPSK (Hopping)

Test software:



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2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Adapter	PHOTON	ATXC-069AC65B	

2.5 Equipments Used During The Test

Conducted Emission at AC power line						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Cable	SCHWARZ BECK	1	1	2024-05-20	2025-05-19	
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB	561-G071	2024-12-06	2025-12-05	
50ΩCoaxial Switch	Anritsu	MP59B	M20531	1	/	
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2024-06-12	2025-06-11	
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2025-12-11	
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2024-06-14	2025-06-13	
Pulse Limiter	CYBERTEK	EM5010A	1	2024-09-27	2025-09-26	
EMI test software	EZ -EMC	EZ	V1.1.42	1	1	

20dB Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

aufacturer Tachoy ormation	Model No	Inventory No	Cal Date	Cal Due Date
-	OF			
	RTS-01	V1.0.0	1	DA
ormation nology(she	TR1029-2	000001	1	1
R&S	CMW500	113410	2024-06-12	2025-06-11
eysight	N5181A	MY50143455	2024-12-06	2025-12-05
eysight	N5182A	MY48180415	2024-12-06	2025-12-05
eysight	N9020A	MY53420323	2024-12-06	2025-12-05
	nology(she n) Co.,Ltd. Fachoy ormation nology(she n) Co.,Ltd.	nology(she n) Co.,Ltd. Tachoy ormation nology(she n) Co.,Ltd. R&S CMW500 eysight N5181A Eysight N5182A	nology(she n) Co.,Ltd. RTS-01 V1.0.0 Tachoy ormation nology(she n) Co.,Ltd. TR1029-2 000001 R&S CMW500 113410 eysight N5181A MY50143455 eysight N5182A MY48180415	nology(she n) Co.,Ltd. RTS-01 V1.0.0 / Fachoy ormation nology(she n) Co.,Ltd. TR1029-2 000001 / R&S CMW500 113410 2024-06-12 eysight N5181A MY50143455 2024-12-06 eysight N5182A MY48180415 2024-12-06

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Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz)

V1.0

Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	1	/
Positioning Controller	MF	MF-7802	1	1	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2023-05-19	2025-05-18
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-05-19	2025-05-18
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13
Cable(LF)#2	Schwarzbeck	/	1	2024-12-19	2025-12-18
Cable(LF)#1	Schwarzbeck	/	1	2024-12-19	2025-12-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-05-20	2025-05-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	1	2024-05-20	2025-05-19
Power amplifier(LF)	Schwarzbeck	arzbeck BBV9743		2024-06-12	2025-06-11
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
Spectrum Analyzer	Spectrum Analyzer R&S		1321.3008K40 -101729-jR	2024-06-12	2025-06-11
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2024-06-13	2025-06-12
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty				
Conducted Disturbance (0.15~30MHz)	±3.41dB	1/10			
Occupied Bandwidth	±3.63%	2			
RF conducted power	±0.733dB				
Duty cycle	±3.1%				
Conducted Spurious emissions	±1.98dB				
Radiated Emission (Above 1GHz)	±5.46dB				
Radiated Emission (Below 1GHz)	±5.79dB				

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

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2.7 Identification of Testing Laboratory

V1.0

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.			
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, 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:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, 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) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant, the laboratory is not responsible for the accuracy of the information provided by the client(item 2.2). When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

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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

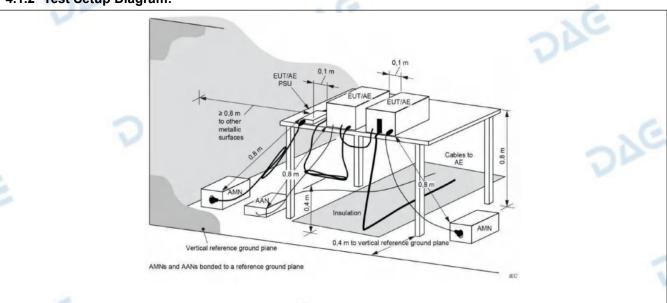
V1.0

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 C63.10-2020 section 6.2					
Procedure:	Refer to ANSI C63.10-2020 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:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM7			V	
Final test mode:	60	TM7				

4.1.2 Test Setup Diagram:

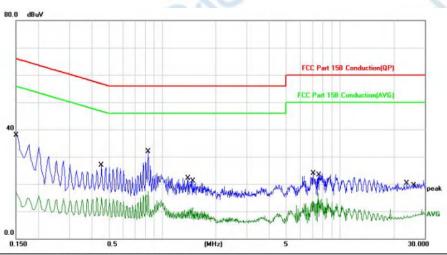


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4.1.3 Test Data:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	27.89	10.10	37.99	65.99	-28.00	QP	
2		0.1500	6.97	10.10	17.07	55.99	-38.92	AVG	
3		0.4540	16.76	10.08	26.84	56.80	-29.96	QP	
4		0.4540	5.07	10.08	15.15	46.80	-31.65	AVG	
5	*	0.8340	21.80	10.08	31.88	56.00	-24.12	QP	
6		0.8340	7.26	10.08	17.34	46.00	-28.66	AVG	
7		1.3900	12.11	10.05	22.16	56.00	-33.84	QP	
8		1.4900	1.21	10.04	11.25	46.00	-34.75	AVG	
9		7.0700	13.63	10.23	23.86	60.00	-36.14	QP	
10		7.5300	6.39	10.25	16.64	50.00	-33.36	AVG	
11		23.7180	9.52	10.77	20.29	60.00	-39.71	QP	
12		25.7860	-2.38	10.88	8.50	50.00	-41.50	AVG	

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V1.0



TM7 / Line: Line 80.0 dBuV FCC Part 158 Conduction(QP) FCC Part 158 Conduction(AVG)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	27.47	10.10	37.57	65.99	-28.42	QP	
2		0.1539	6.35	10.10	16.45	55.78	-39.33	AVG	
3		0.5299	18.88	10.08	28.96	56.00	-27.04	QP	
4		0.5820	3.41	10.08	13.49	46.00	-32.51	AVG	
5	*	0.8340	23.66	10.08	33.74	56.00	-22.26	QP	
6		0.8340	7.20	10.08	17.28	46.00	-28.72	AVG	
7		1.8940	12.16	10.00	22.16	56.00	-33.84	QP	
8		1.9460	0.91	10.00	10.91	46.00	-35.09	AVG	
9		2.8540	0.30	10.06	10.36	46.00	-35.64	AVG	
10		2.8780	11.11	10.06	21.17	56.00	-34.83	QP	
11		7.7540	14.62	10.27	24.89	60.00	-35.11	QP	
12		7.8740	5.43	10.27	15.70	50.00	-34.30	AVG	

(MHz)

NOTE:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement
- 4. When charging, the EUT cannot transmit

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4.2 20dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
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 C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 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 VBW shall be at least three times the 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 of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that
-	frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral 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:	770

Report No.: DACE250412030RL001

4.2.1 E.U.T. Operation:

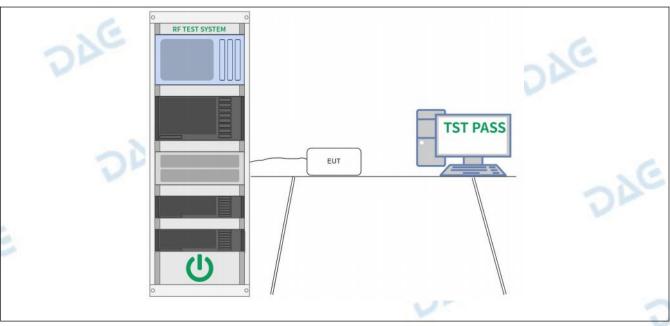
Operating Environment:						
Temperature:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM1,	TM2, TM3			
Final test mode:		TM1,	TM2, TM3	Co		

4.2.2 Test Setup Diagram:

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4.2.3 Test Data:

DAG

Please Refer to Appendix for Details.

DAG



4.3 Maximum Conducted Output Power

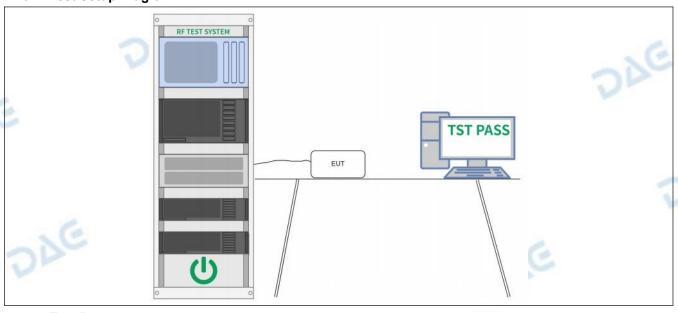
V1.0

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 C63.10-2020, 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. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
	j) A spectral plot of the test results and setup description shall be included in the test report.

4.3.1 E.U.T. Operation:

Operating Envir	onment:				A	
Temperature:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM1,	TM2, TM3	SIN		JIL.
Final test mode		TM1,	TM2, TM3			JI

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

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4.4 Channel Separation

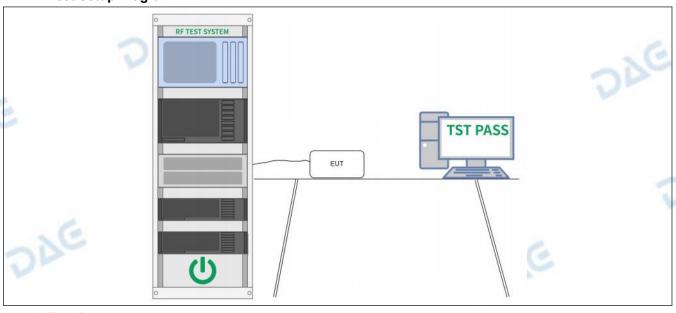
V1.0

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 C63.10-2020, 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. d) Sweep: No faster than coupled (auto) time. 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 spectral plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Envir	onment:					
Temperature:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM4,	TM5, TM6	SIN		- NE
Final test mode		TM4,	TM5, TM6			JI

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

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4.5 Number of Hopping Frequencies

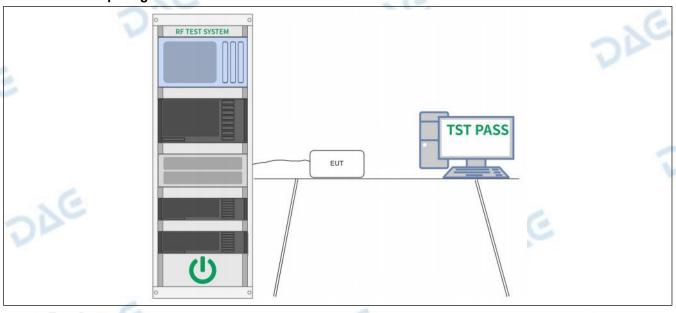
V1.0

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 C63.10-2020, 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 could 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: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
6	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 spectral plot of the data shall be included in the test report.

4.5.1 E.U.T. Operation:

Operating Envir	onment:			-11		16
Temperature:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM4,	TM5, TM6			0
Final test mode		TM4,	TM5, TM6			

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

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4.6 Dwell Time

4.6 Dwell Time			
Test Requirement:	47 CFR 15.247(a)(1)(iii)	Ca	Ca
Test Limit:	MHz band shall use at least channel shall not be greater multiplied by the number of	1)(iii), Frequency hopping systems in 15 channels. The average time of oc than 0.4 seconds within a period of 0 hopping channels employed. Frequencess transmissions on a particular hop 15 channels are used.	ccupancy on any 0.4 seconds ncy hopping
Test Method:	ANSI C63.10-2020, section KDB 558074 D01 15.247 M		ve.
Procedure:	transmission to the end of the single transmission per hop If the device has a multiple t	channel is the time from the start of the last transmission for that hop. If the then the dwell time is the duration of ransmissions per hop then the dwell asmission to the end of the last transm	e device has a that transmission. time is measured
NE	observation period specified occupancy the spectrum and	e total time that the device dwells on in the regulatory requirement. To de- alyzer will be configured to measure l imes the device transmits on a specif	termine the time of both the dwell time
DAG	requirements shall be made channels enabled. If the dwo channels than compliance we number of channels. If the document of channels are devices	oing function enabled. Compliance wi with the minimum and with the maxi- ell time per channel does not vary wit- vith the requirements may be based of evice supports different dwell times p can dwell on a channel for 1, 3 or 5 to ed to the longest dwell time with the m	mum number of h the number of on the minimum per channel time slots) then
	Use the following spectrum	analyzer settings to determine the dw	vell time per hop:
e Di	T, where T is the expected to c) Sweep time: Set so that the transmission for the hop are longer than the hopping period should achieve this. d) Use a video trigger, where transmission is clearly observed the chance of triggering where by Detector function: Peak. f) Trace: Clear-write, single states and the chance of triggering where the	spacing and where possible RBW shoransmission time per hop. The start of the first transmission and explain the start of the first transmission and explain the sweep of per channel (hopping period = 1/hopping period = 1/ho	end of the last time to be slightly nopping rate) t the start of the justment to reduce nannel.
	0,	t of the first transmission on the chan dwell time per hop is the time betwe	
DAG	repeat the measurement us hopping sequence the perio least 2 hops. When the devi varies, the period of measur	hops on a channel in the regulatory on a longer sweep time. When the do of measurement should be sufficience uses a dynamic hopping sequencement may need to capture multiple of occupancy. Count the number of home.	evice uses a single nt to capture at e, or the sequence hops to better
200	The average number of hop	s on the same channel within the reg	ulatory observation

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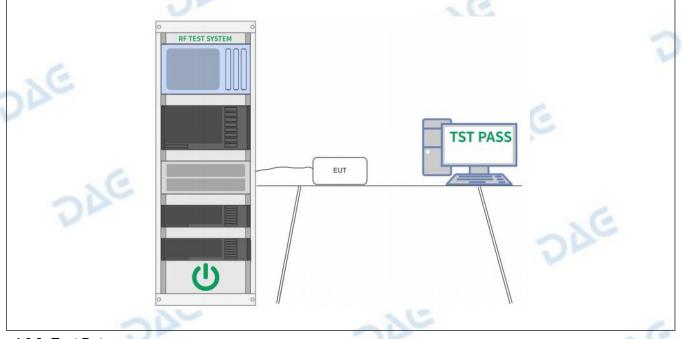
period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

4.6.1 E.U.T. Operation:

Operating Envir	onment:				1	70		- 60
Temperature:	22.5 °C		Humidity:	47 %	New York	Atmospheric Pressure:	101 kPa	100
Pretest mode:		TM4,	TM5, TM6					V
Final test mode:	1	TM4,	TM5, TM6					

4.6.2 Test Setup Diagram:



4.6.3 Test Data:

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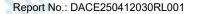
4.7 Emissions in non-restricted frequency bands

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 sha be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated bandedges which shall be repeated with hopping enabled.
DIE	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 frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showin the in-band level shall be provided.
ONE	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.
DAC	7.8.7.2 Band-edges Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made of the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

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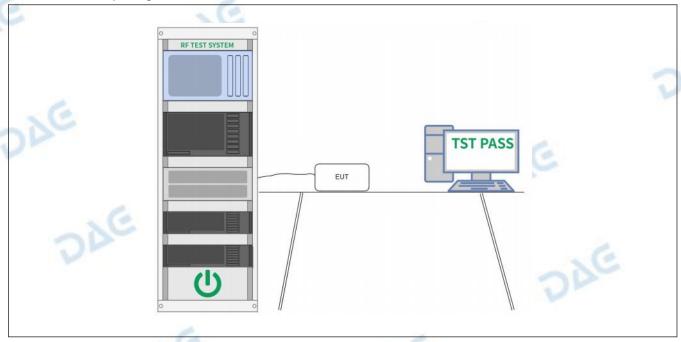
For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated bandedges. This could require separate spectral plots for each band-edge.

4.7.1 E.U.T. Operation:

Operating Envir	onment:	100				
Temperature:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pretest mode:	1	TM1,	TM2, TM3		01	-16
Final test mode:	•	TM1,	TM2, TM3			DI

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

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4.8 Band edge emissions (Radiated)

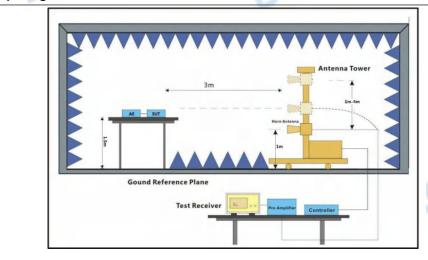
V1.0

Test Requirement:	restricted bands, as de		emissions which fall in the talso comply with the radiated (2.205(c)).
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
29	0.490-1.705	24000/F(kHz)	30
OF	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
DAG	radiators operating und 54-72 MHz, 76-88 MHz these frequency bands and 15.241. In the emission table a The emission limits show employing a CISPR quality 110–490 kHz and above	der this section shall not b z, 174-216 MHz or 470-80 s is permitted under other s bove, the tighter limit appl own in the above table are assi-peak detector except	e based on measurements for the frequency bands 9–90 kHz, mission limits in these three bands
Test Method:	ANSI C63.10-2020 sec KDB 558074 D01 15.2	ction 6.10 47 Meas Guidance v05r02	2
Procedure:	ANSI C63.10-2020 sec	ction 6.10.5.2	-

4.8.1 E.U.T. Operation:

Operating Envir	onment:			1			DE	
Temperature:	22.5 °C		Humidity:	47 %	Atmosph	eric Pressure:	101 kPa	
Pretest mode:		TM1,	TM2, TM3					
Final test mode:	\sim i	TM3			10	8		

4.8.2 Test Setup Diagram:

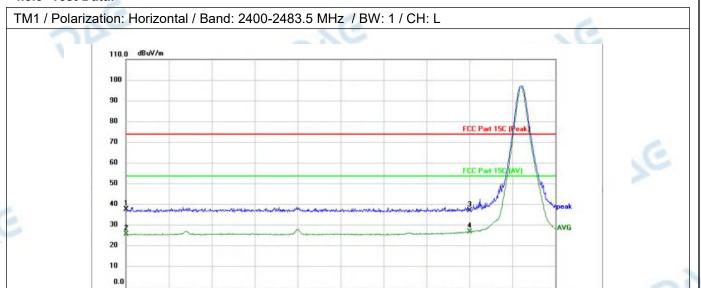


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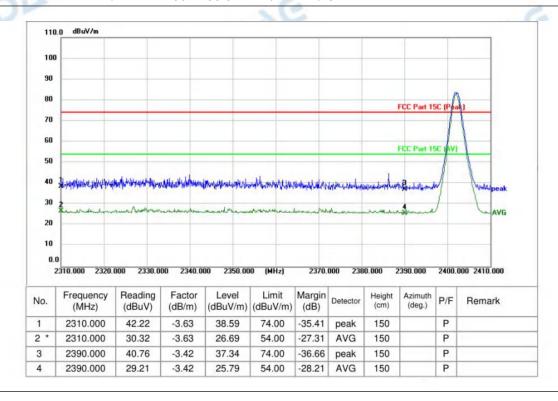
4.8.3 Test Data:

V1.0



	2310.000 2320.	000 2330.0	00 2340.0	00 2350.00	10 (MHz)	2370.	000 238	0.000	2390.000	2400.0	000 2410.000
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	41.70	-3.63	38.07	74.00	-35.93	peak	150		Р	
2	2310.000	29.78	-3.63	26.15	54.00	-27.85	AVG	150		Р	
3	2390.000	41.09	-3.42	37.67	74.00	-36.33	peak	150		Р	
4 *	2390.000	30.79	-3.42	27.37	54.00	-26.63	AVG	150		Р	

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



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Р

Р



3

2500.000

2500.000

40.96

29.01

-3.13

-3.13

37.83

25.88

74.00

54.00

36.17

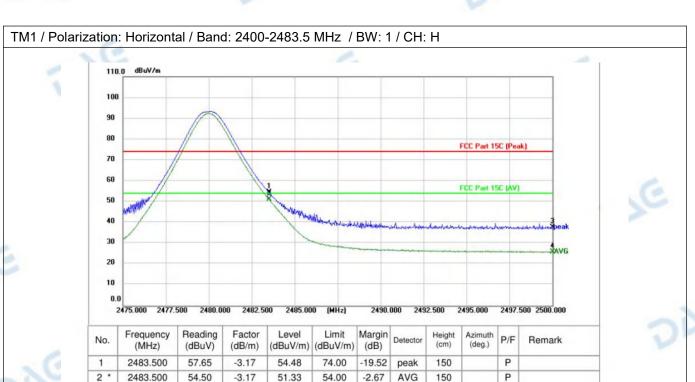
-28.12

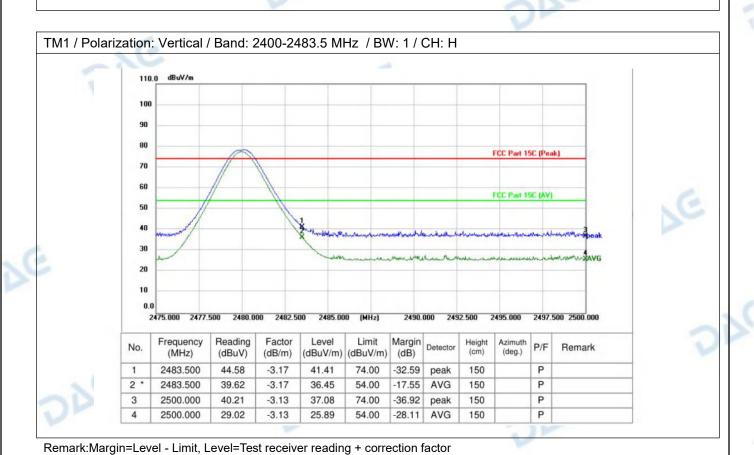
peak

AVG

150

V1.0





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



4.9 Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as de	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).				
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			
	** Except as provided in paragraph (g), fundamental emissions from intention radiators operating under this section shall not be located in the frequency b 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation these frequency bands is permitted under other sections of this part, e.g., §§ and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–9 110–490 kHz and above 1000 MHz. Radiated emission limits in these three					
Test Method:	are based on measurements employing an average detector. ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02					
Procedure:	 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotate 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and ther 					
	the antenna was tuned below 30MHz, the ante was turned from 0 degr f. The test-receiver sys Bandwidth with Maxim	the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency o below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.				
	reported. Otherwise the tested one by one usin reported in a data sheeth. Test the EUT in the I	 g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for 				
	Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.					

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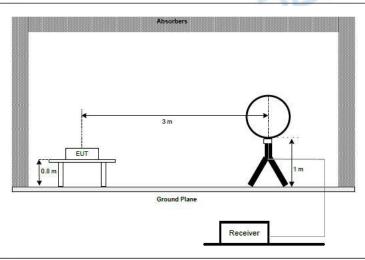
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz 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.

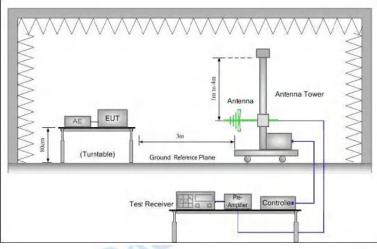
4.9.1 E.U.T. Operation:

V1.0

Operating Environment:							
Temperature:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa	
Pretest mode:		TM1	(0)				
Final test mode: TM1							

4.9.2 Test Setup Diagram:



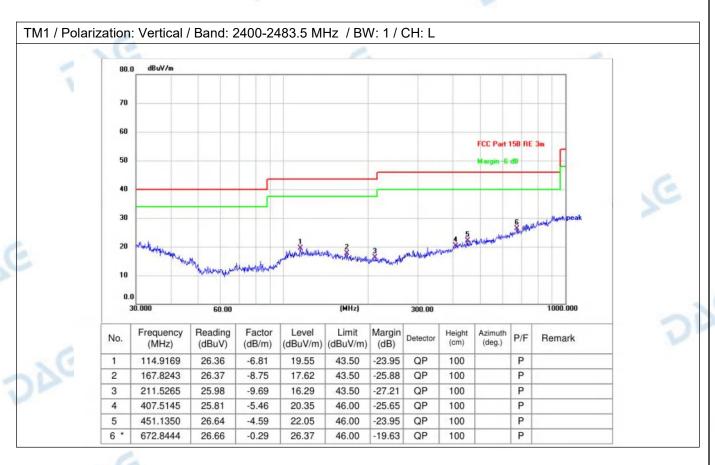


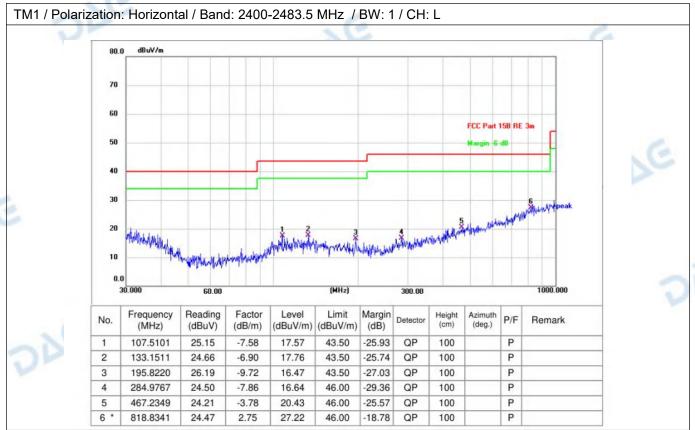
4.9.3 Test Data:

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V1.0





Remark:Margin=Level - Limit, Level=Test receiver reading + correction factor
The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

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4.10 Emissions in frequency bands (above 1GHz)

Test Requirement:	15.205(a), must also co	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).				
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			
** Except as provided in paragraph (g), fundamental emissions from radiators operating under this section shall not be located in the freq 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, or these frequency bands is permitted under other sections of this part, and 15.241. In the emission table above, the tighter limit applies at the band edge. The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency band 110–490 kHz and above 1000 MHz. Radiated emission limits in these are based on measurements employing an average detector.						
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02					
Procedure:	 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotat 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and their 					
	the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency o below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.					
	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
	h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark:					
_ ;C	1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.					

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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

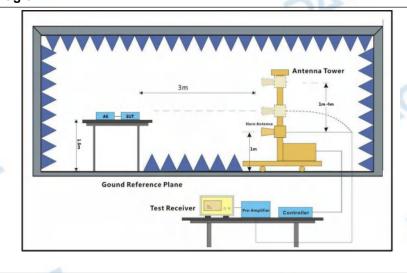
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3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions 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:	22.5 °C		Humidity:	47 %	Atmospheric Pressure:	101 kPa	
Pretest mode: TN		TM1,	TM2, TM3				
Final test mode: TM3							

4.10.2Test Setup Diagram:



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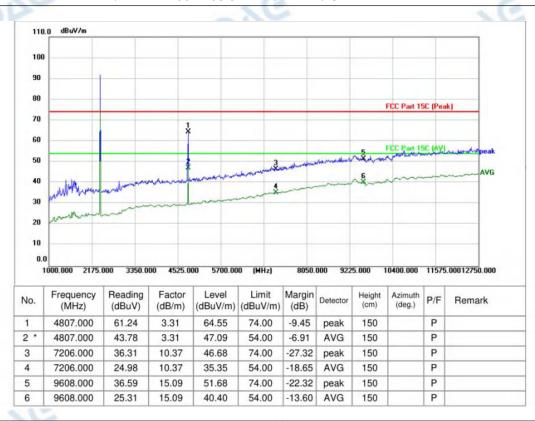
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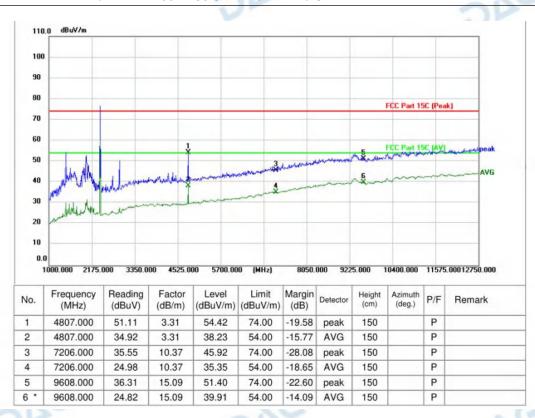
4.10.3Test Data:

TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

V1.0



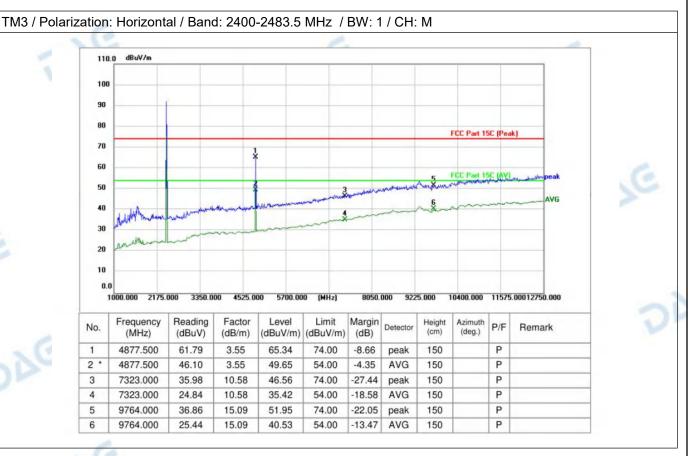
TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

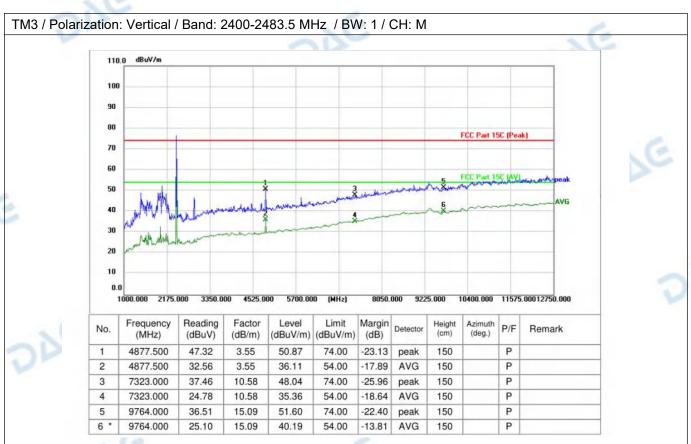


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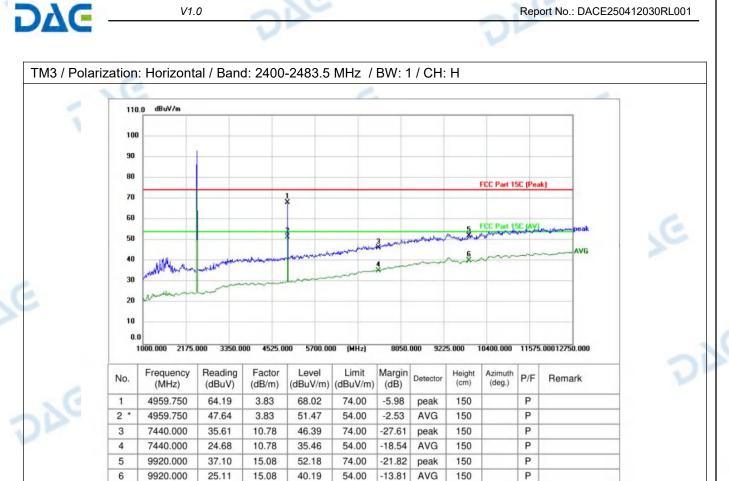
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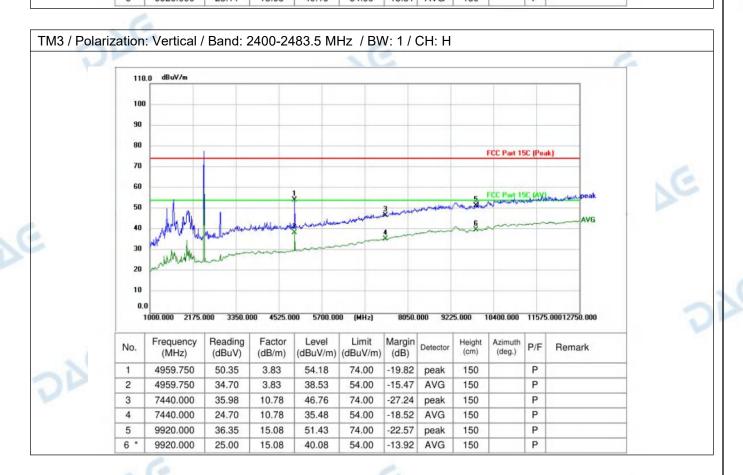






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5 TEST SETUP PHOTOS





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



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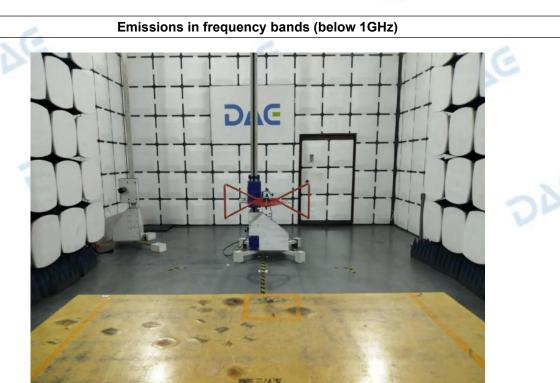
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6 PHOTOS OF THE EUT

V1.0





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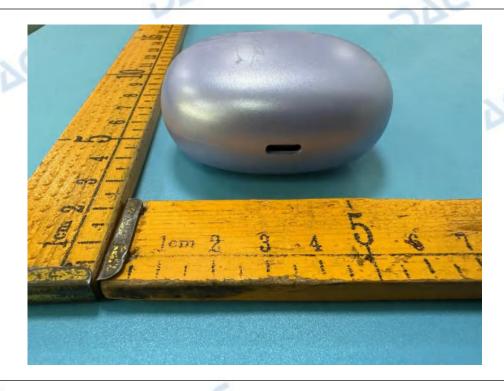
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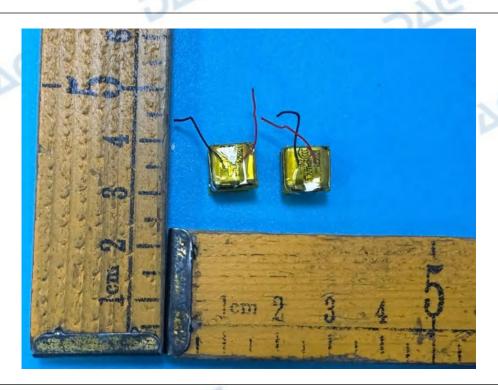


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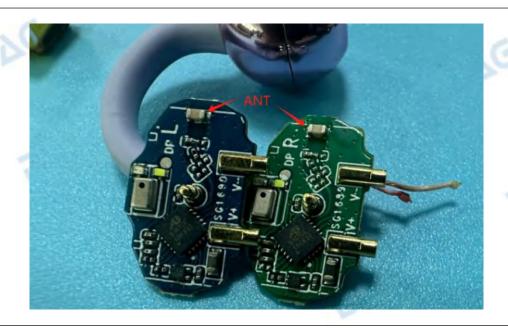
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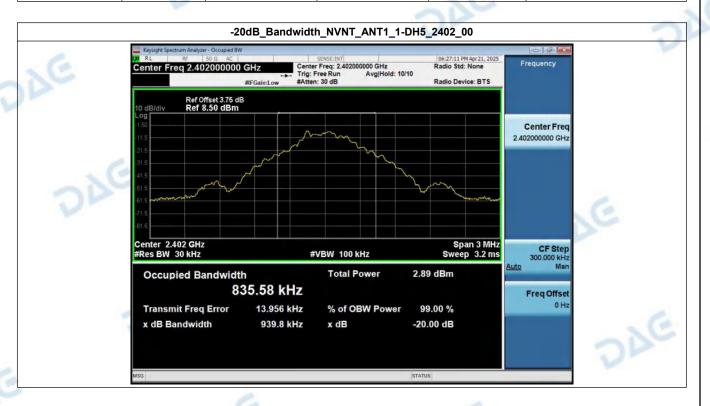
Appendix

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-20dB Bandwidth 1.

V1.0

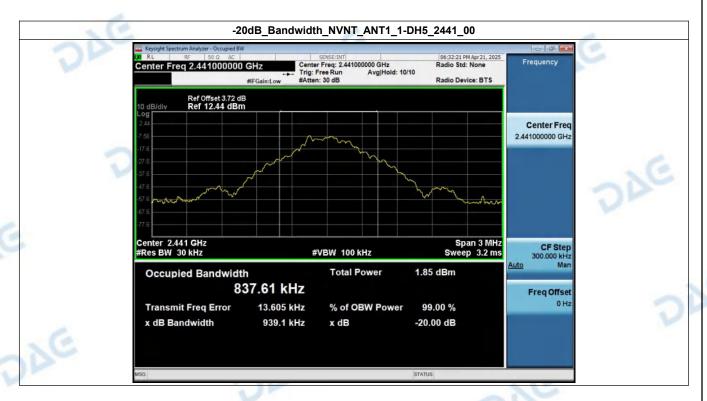
		Appendix				
120dB	Bandwidth					
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS	
NVNT	ANT1	1-DH5	2402.00	0.940	No	
NVNT	ANT1	1-DH5	2441.00	0.939	No	
NVNT	ANT1	1-DH5	2480.00	0.939	No	
NVNT	ANT1	2-DH5	2402.00	1.265	Yes	
NVNT	ANT1	2-DH5	2441.00	1.267	Yes	
NVNT	ANT1	2-DH5	2480.00	1.264	Yes	
NVNT	ANT1	3-DH5	2402.00	1.262	Yes	
NVNT	ANT1	3-DH5	2441.00	1.261	Yes	
NVNT	ANT1	3-DH5	2480.00	1.262	Yes	



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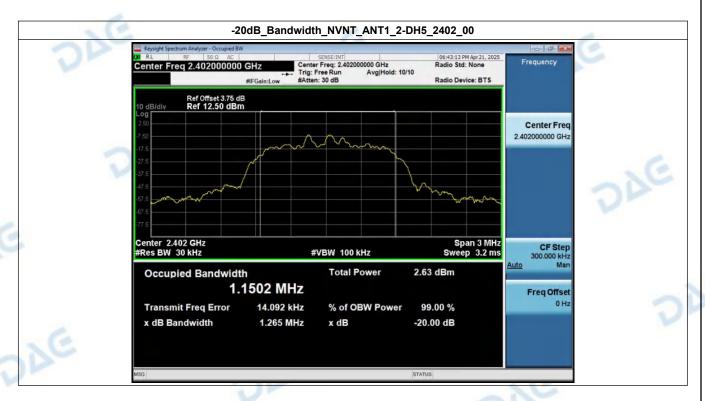


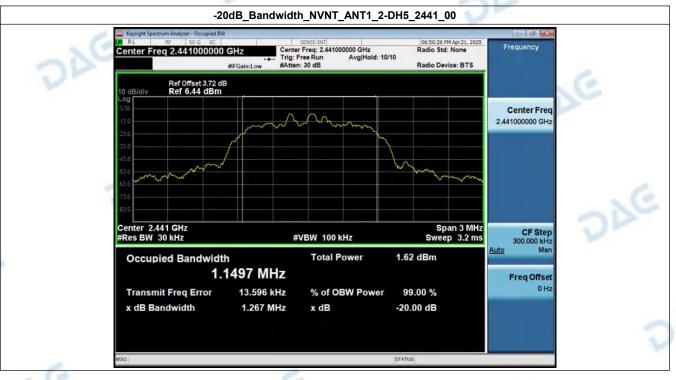




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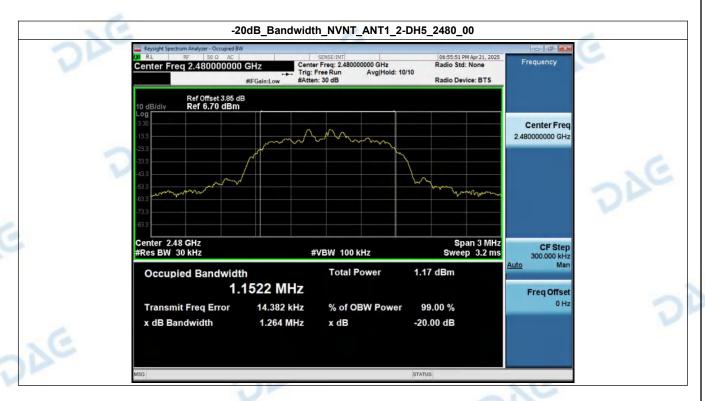






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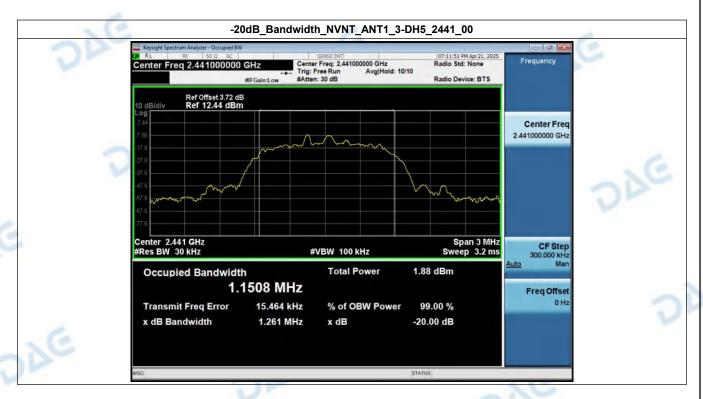


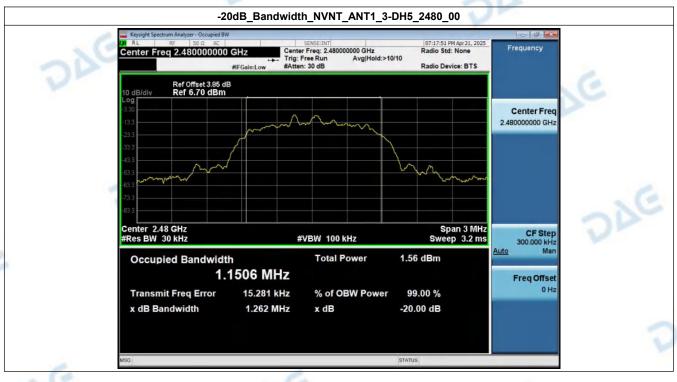
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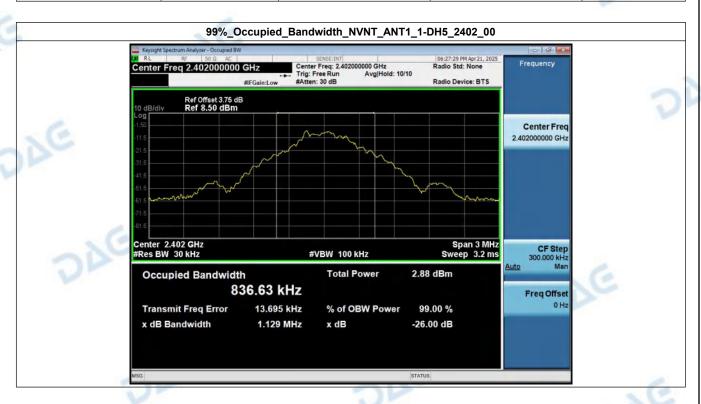
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2. 99% Occupied Bandwidth

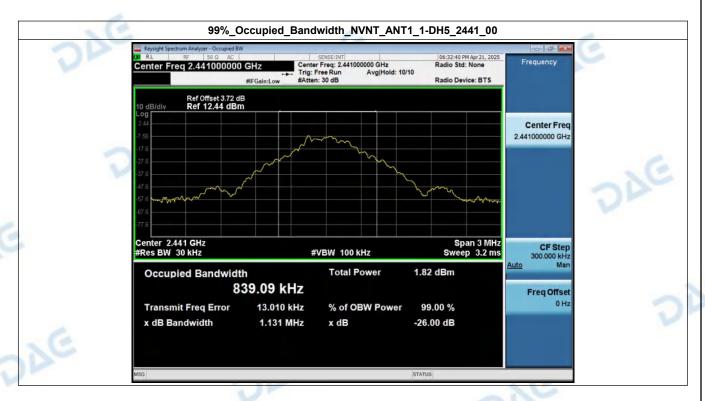
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.837
NVNT	ANT1	1-DH5	2441.00	0.839
NVNT	ANT1	1-DH5	2480.00	0.840
NVNT	ANT1	2-DH5	2402.00	1.151
NVNT	ANT1	2-DH5	2441.00	1.150
NVNT	ANT1	2-DH5	2480.00	1.151
NVNT	ANT1	3-DH5	2402.00	1.150
NVNT	ANT1	3-DH5	2441.00	1.152
NVNT	ANT1	3-DH5	2480.00	1.150

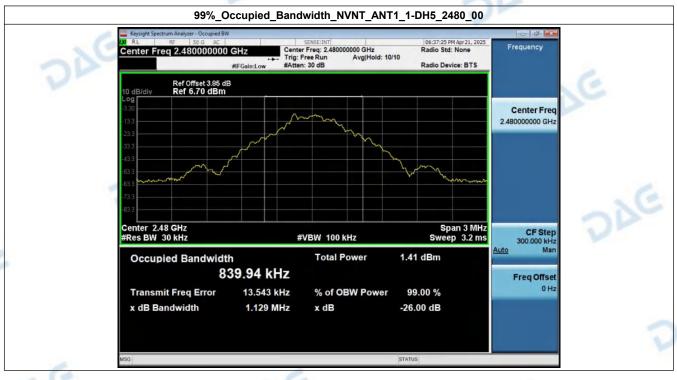
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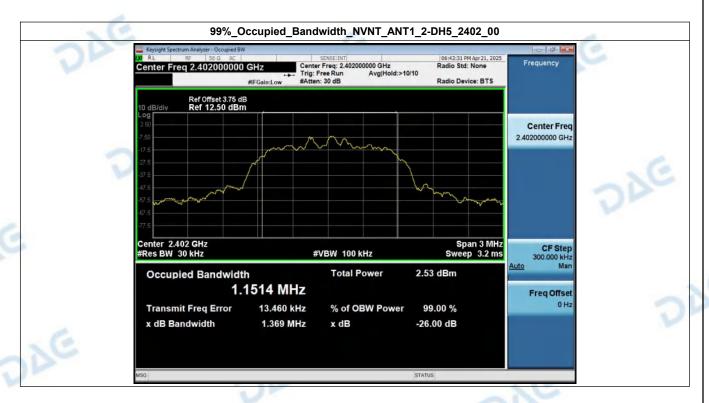


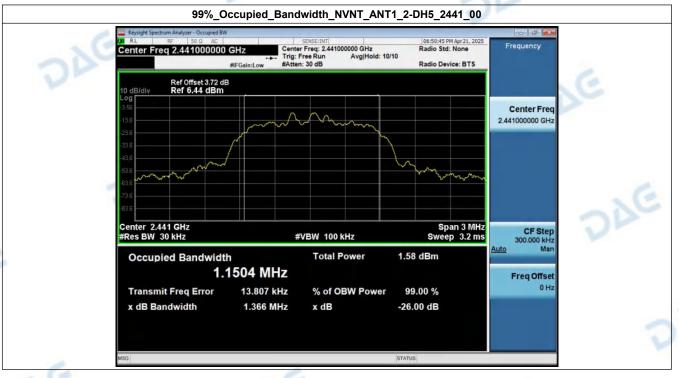




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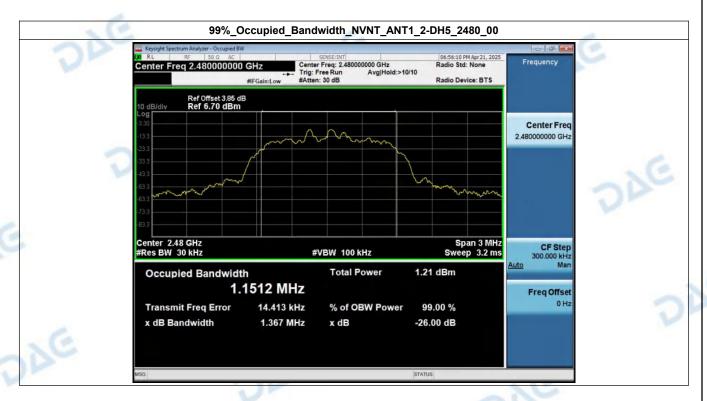


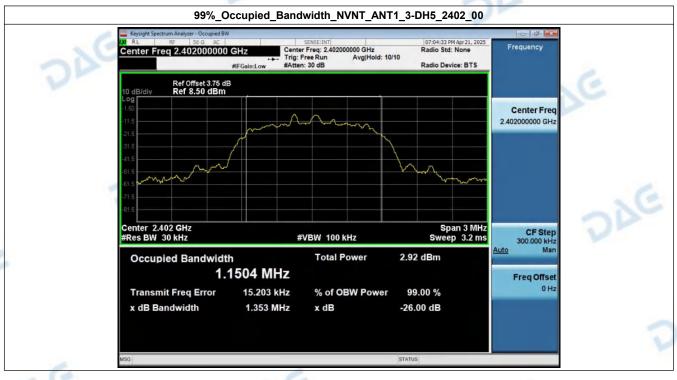




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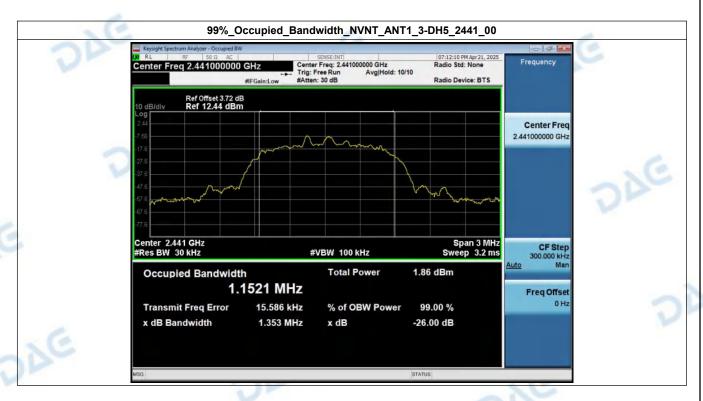


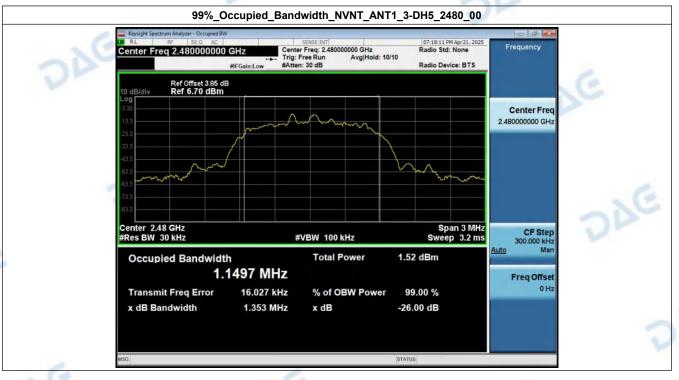
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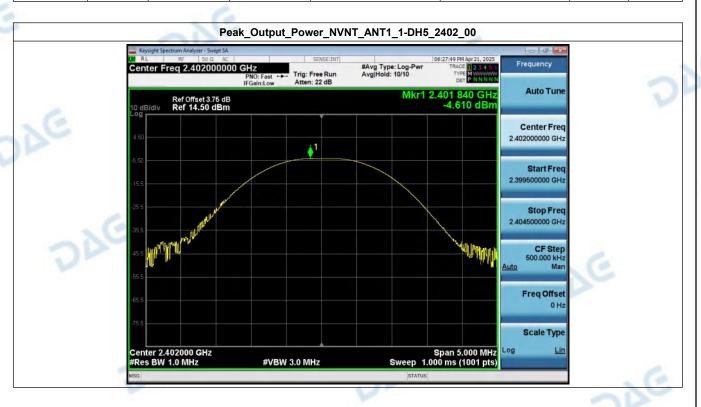
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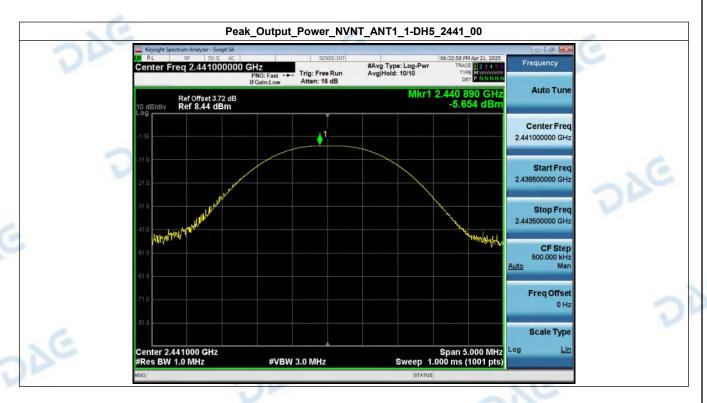
3. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	-4.61	0.35	1000	Pass
NVNT	ANT1	1-DH5	2441.00	-5.65	0.27	1000	Pass
NVNT	ANT1	1-DH5	2480.00	-6.11	0.25	1000	Pass
NVNT	ANT1	2-DH5	2402.00	-3.76	0.42	125	Pass
NVNT	ANT1	2-DH5	2441.00	-4.76	0.33	125	Pass
NVNT	ANT1	2-DH5	2480.00	-5.18	0.30	125	Pass
NVNT	ANT1	3-DH5	2402.00	-3.41	0.46	125	Pass
NVNT	ANT1	3-DH5	2441.00	-4.45	0.36	125	Pass
NVNT	ANT1	3-DH5	2480.00	-4.84	0.33	125	Pass



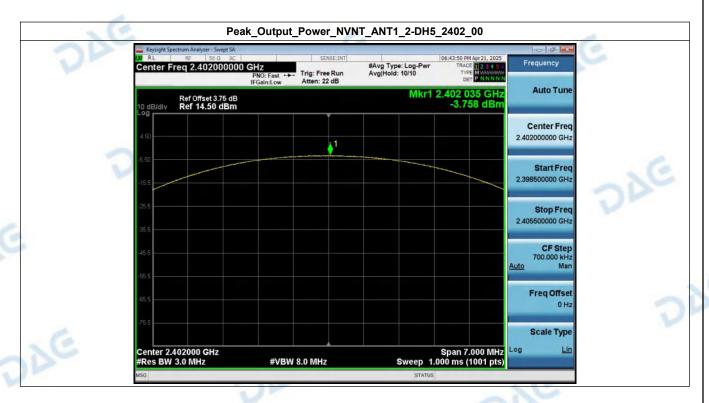
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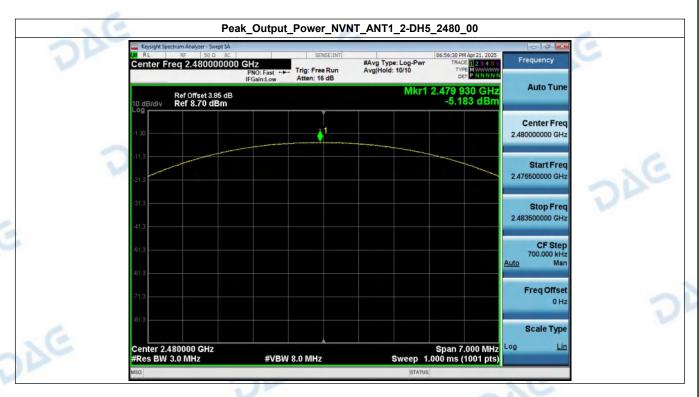


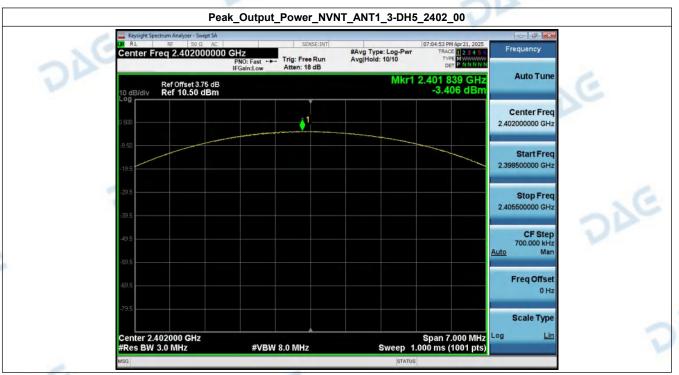






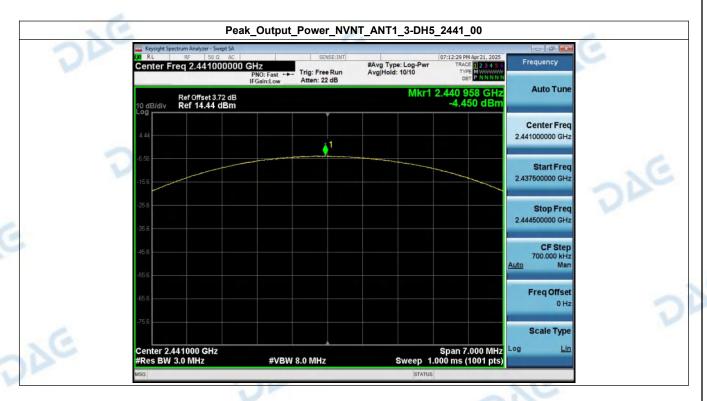


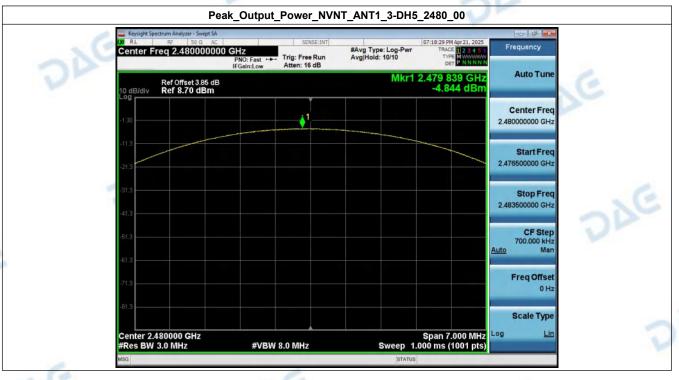




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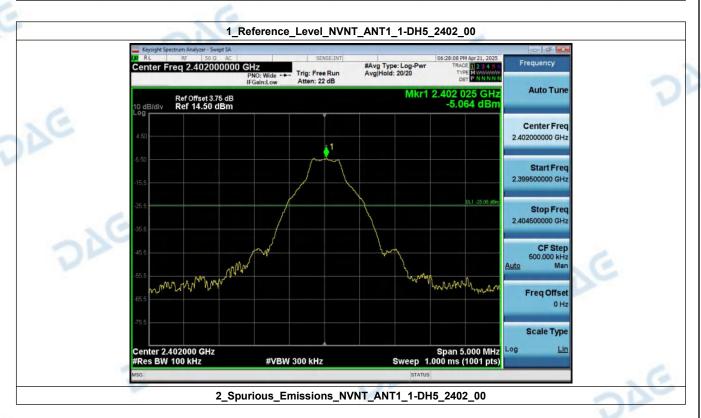




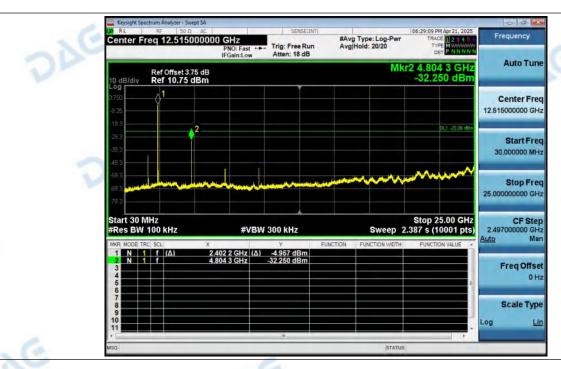
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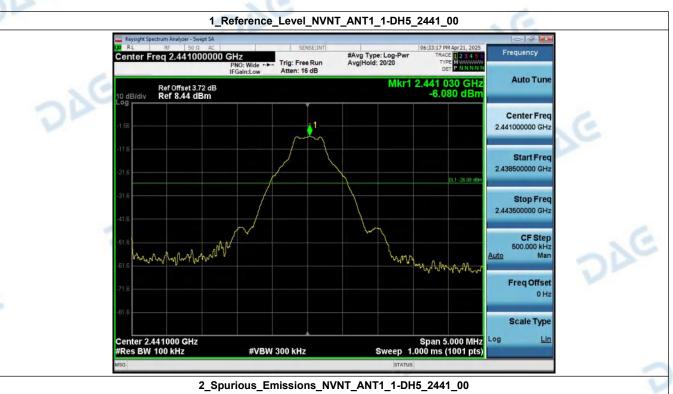
4. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-5.064	-32.250	-25.064	Pass
NVNT	ANT1	1-DH5	2441.00	-6.080	-32.326	-26.080	Pass
NVNT	ANT1	1-DH5	2480.00	-6.524	-33.506	-26.524	Pass
NVNT	ANT1	2-DH5	2402.00	-5.063	-34.000	-25.063	Pass
NVNT	ANT1	2-DH5	2441.00	-6.054	-33.914	-26.054	Pass
NVNT	ANT1	2-DH5	2480.00	-6.425	-32.666	-26.425	Pass
NVNT	ANT1	3-DH5	2402.00	-4.994	-33.420	-24.994	Pass
NVNT	ANT1	3-DH5	2441.00	-6.046	-33.442	-26.046	Pass
NVNT	ANT1	3-DH5	2480.00	-6.425	-31.824	-26.425	Pass

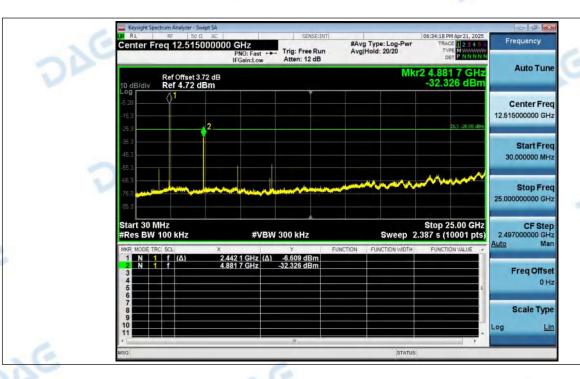


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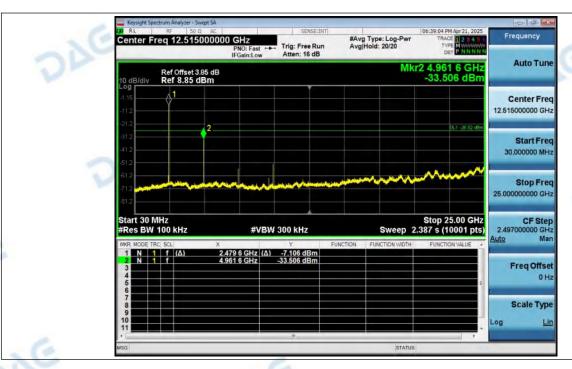


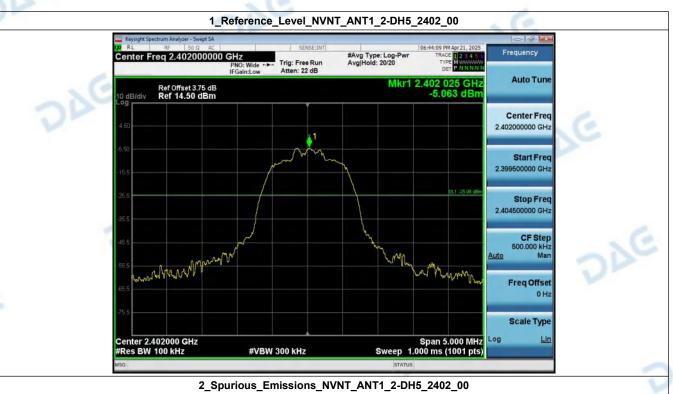
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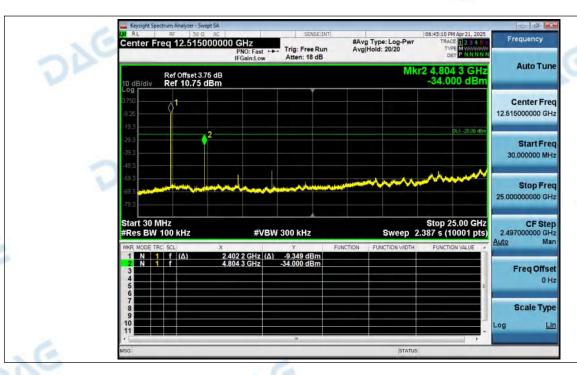


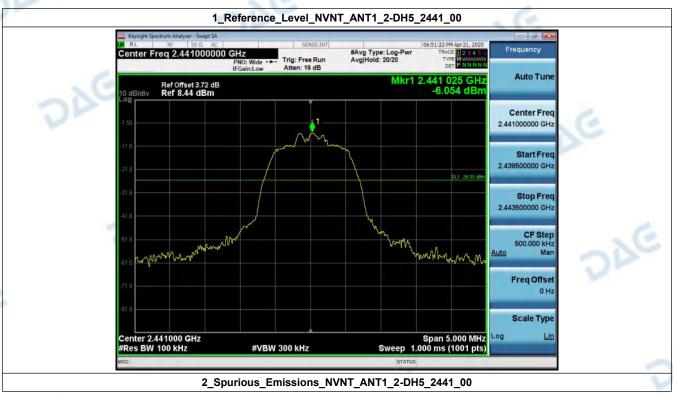
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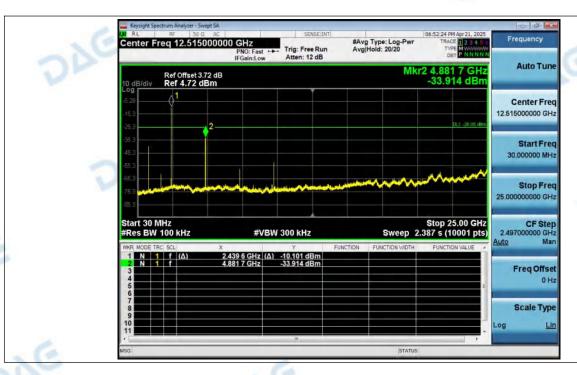
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com Page 65 of 94





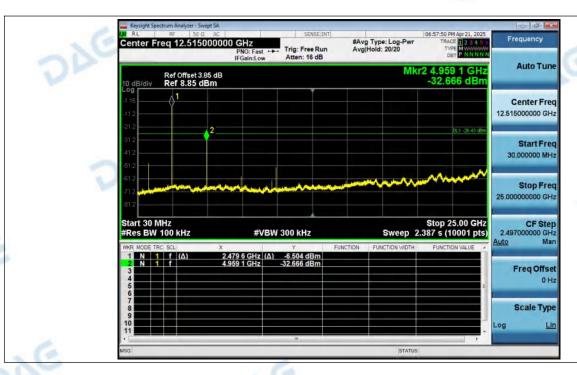
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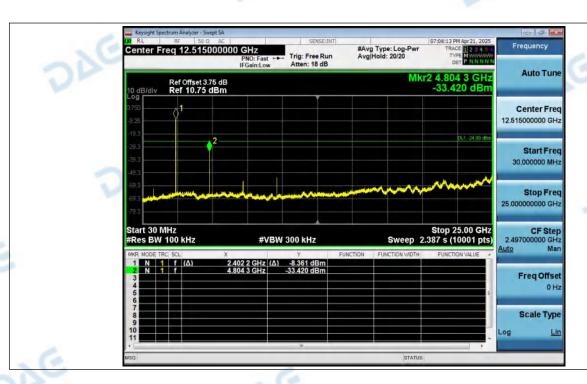




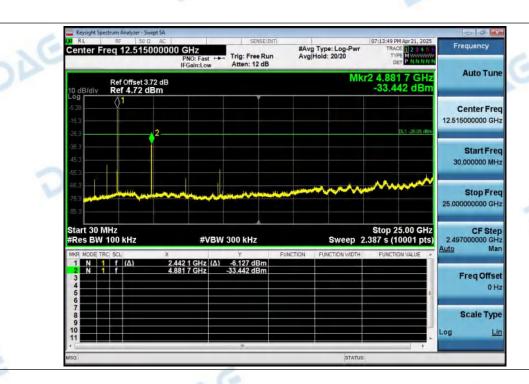
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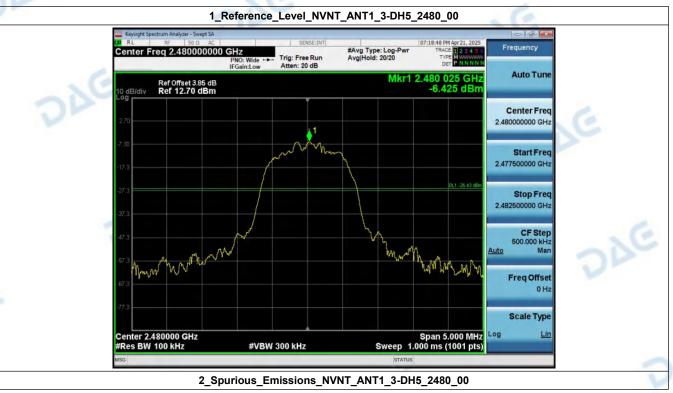












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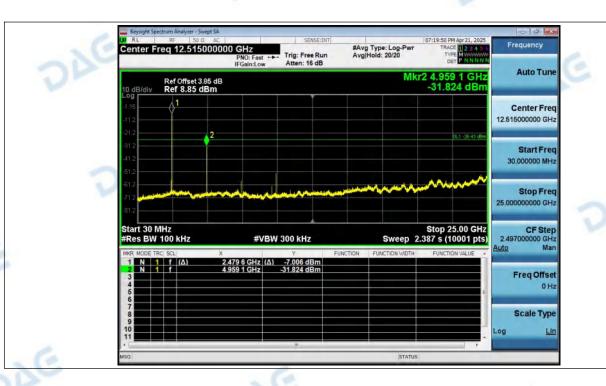
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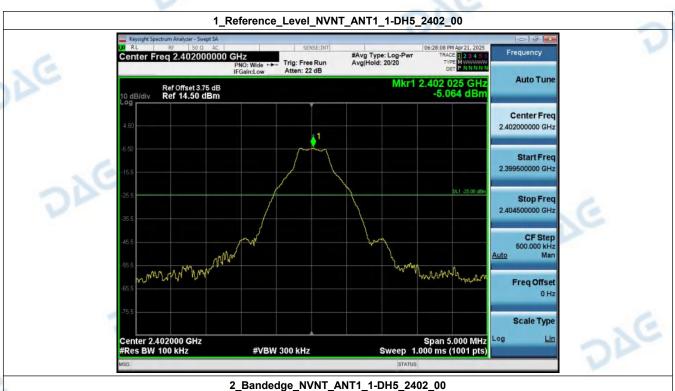
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5. Bandedge

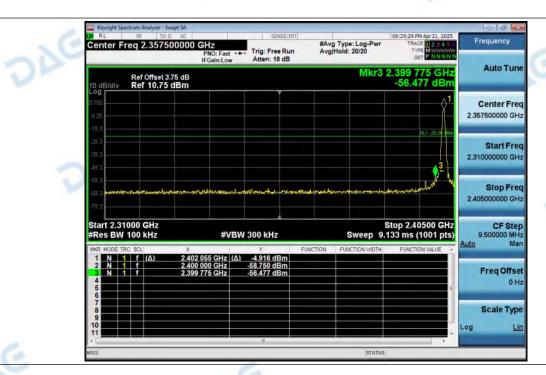
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-5.064	-56.477	-25.064	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-4.977	-64.180	-24.977	Pass
NVNT	ANT1	1-DH5	2480.00	-6.524	-62.487	-26.524	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-5.021	-65.238	-25.021	Pass
NVNT	ANT1	2-DH5	2402.00	-5.063	-55.739	-25.063	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-5.453	-66.558	-25.453	Pass
NVNT	ANT1	2-DH5	2480.00	-6.425	-60.239	-26.425	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-5.035	-64.804	-25.035	Pass
NVNT	ANT1	3-DH5	2402.00	-4.994	-57.018	-24.994	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-5.544	-58.821	-25.544	Pass
NVNT	ANT1	3-DH5	2480.00	-6.425	-62.507	-26.425	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-5.576	-67.025	-25.576	Pass

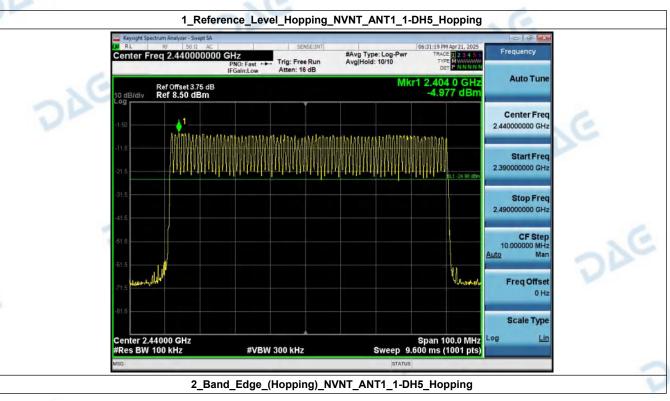
Report No.: DACE250412030RL001



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

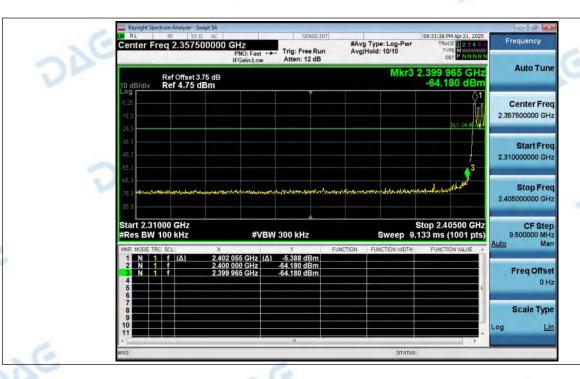
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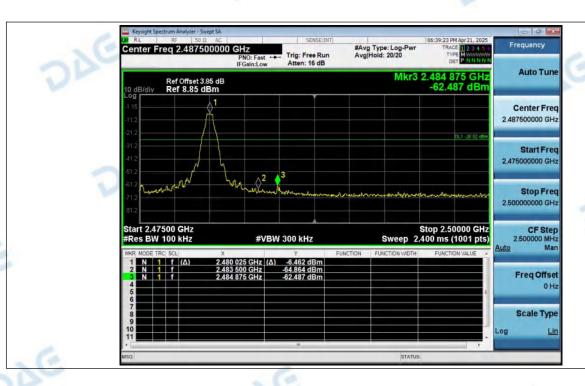
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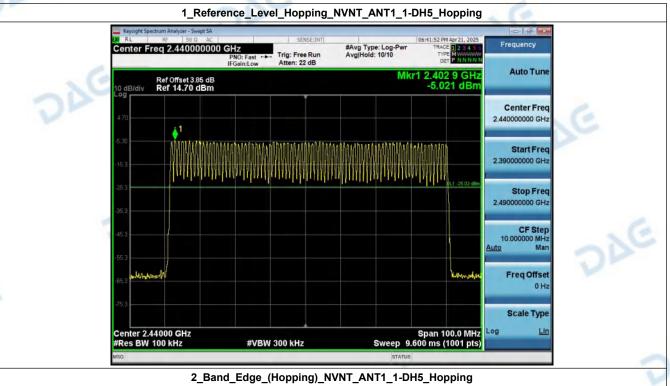






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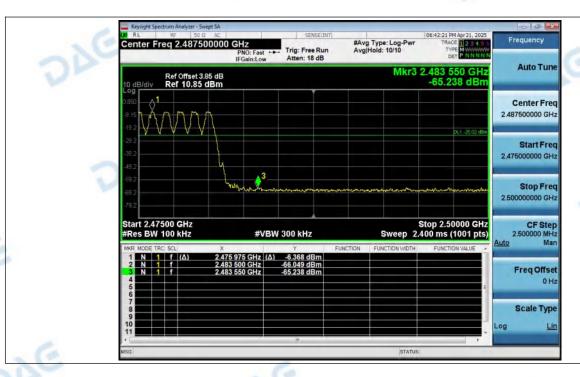


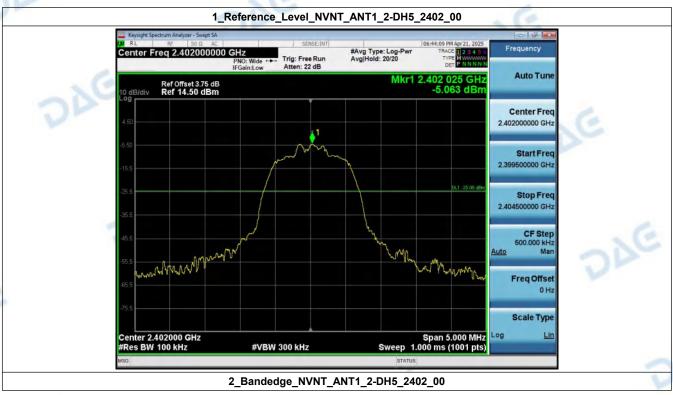
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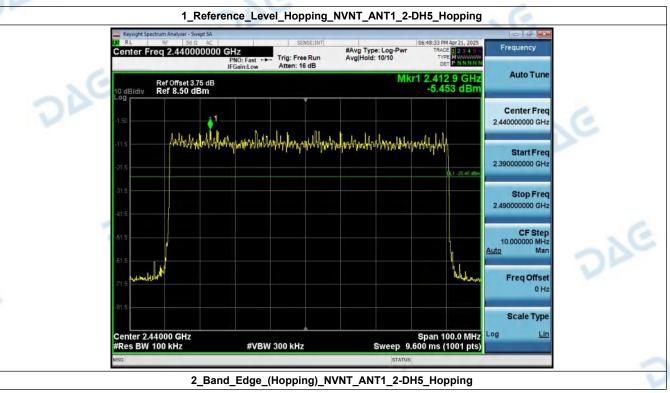
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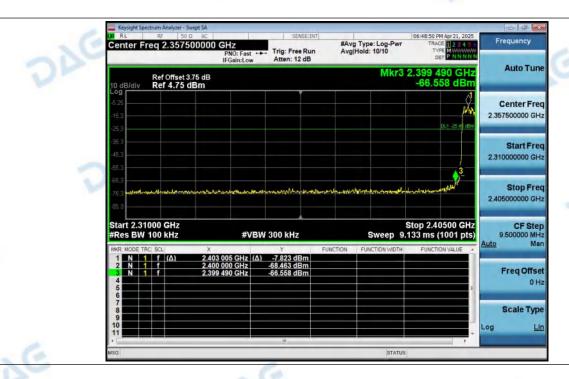


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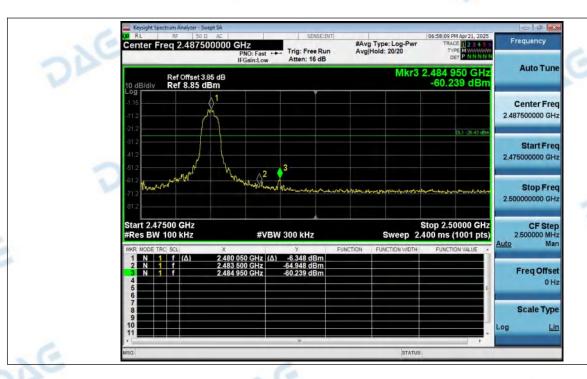
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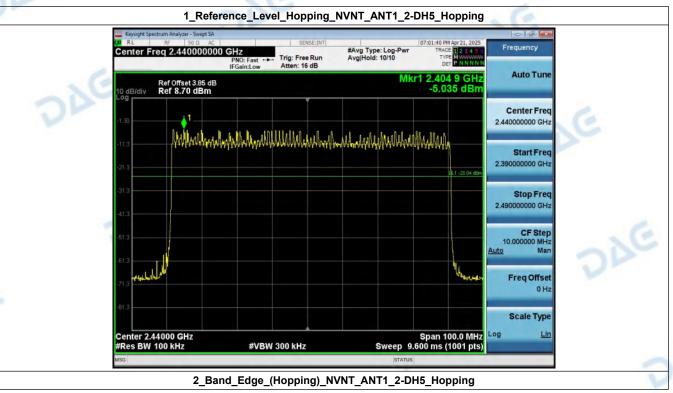




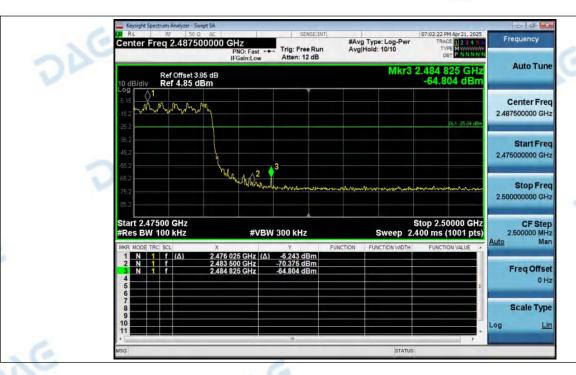
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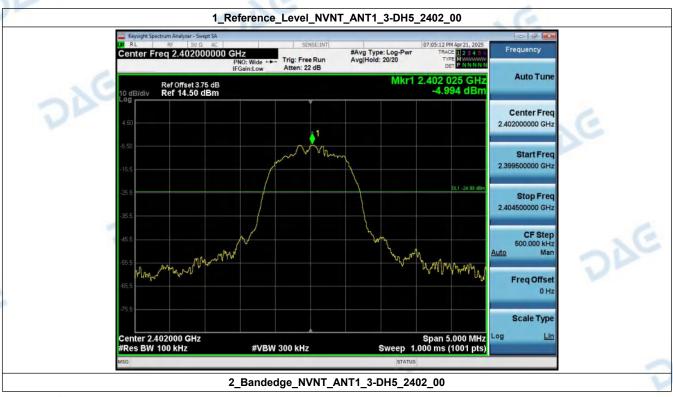
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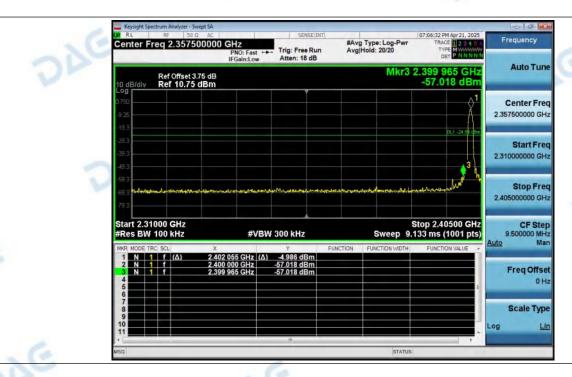


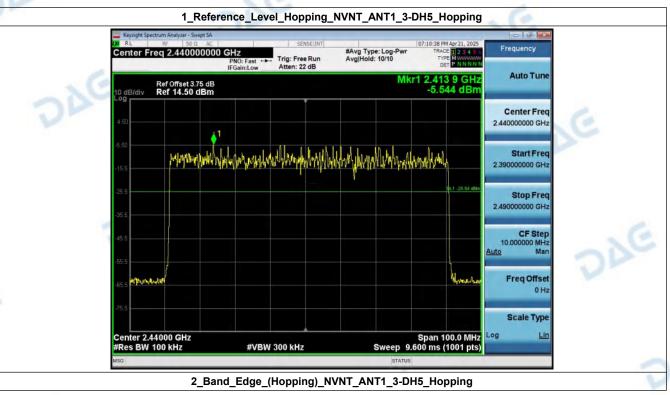
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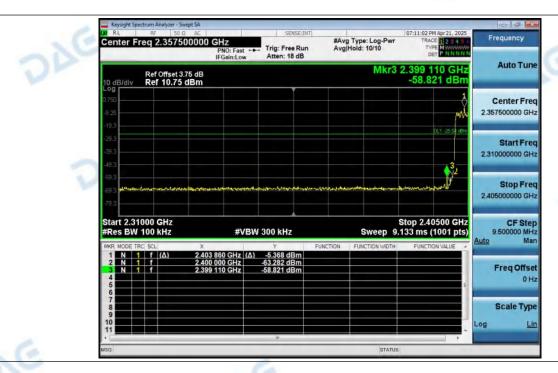


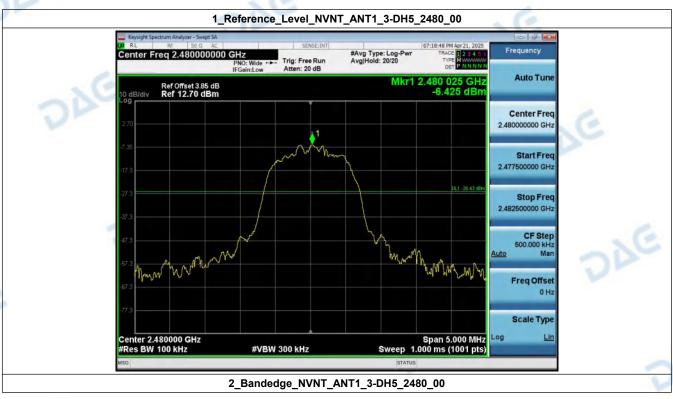


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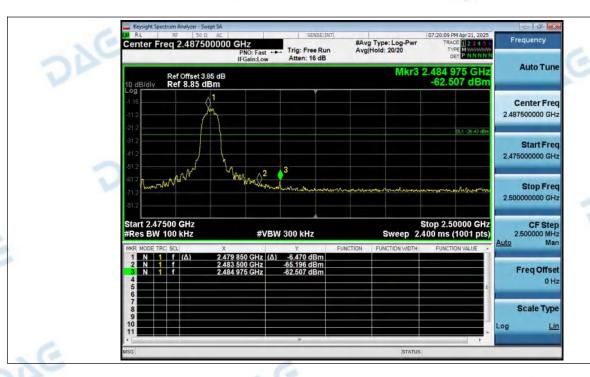


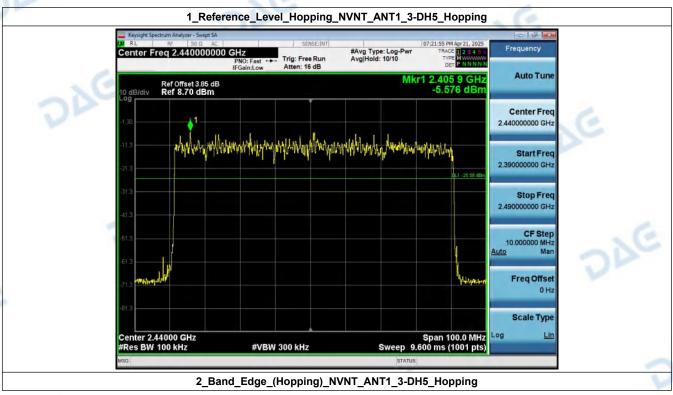












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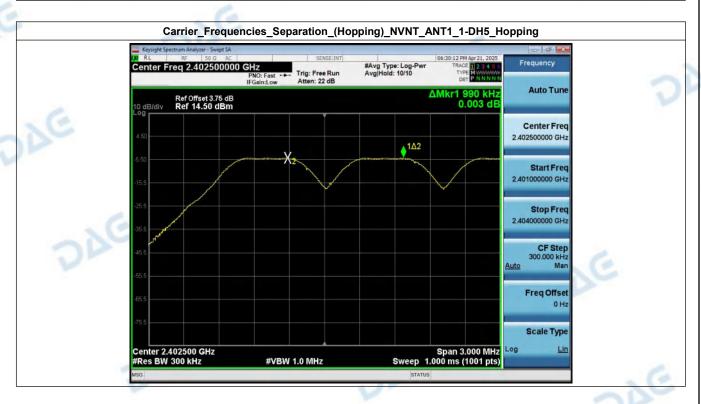
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6. Carrier Frequencies Separation (Hopping)

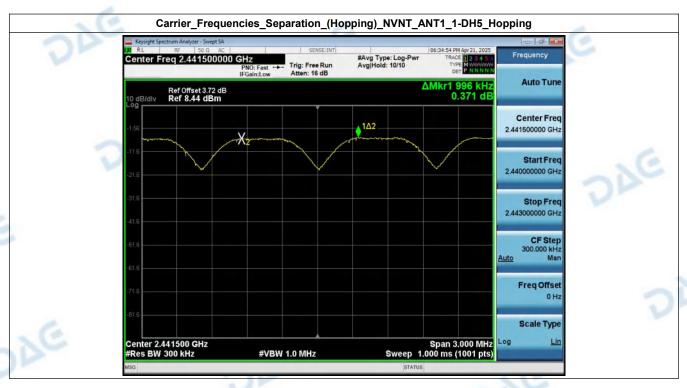
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402.00	2402.185	2403.175	0.99	0.940	Pass
NVNT	ANT1	1-DH5	2441.00	2440.852	2441.848	1.00	0.939	Pass
NVNT	ANT1	1-DH5	2480.00	2478.834	2479.845	1.01	0.939	Pass
NVNT	ANT1	2-DH5	2402.00	2401.858	2403.166	1.31	0.843	Pass
NVNT	ANT1	2-DH5	2441.00	2440.861	2441.869	1.01	0.845	Pass
NVNT	ANT1	2-DH5	2480.00	2478.858	2479.854	1.00	0.843	Pass
NVNT	ANT1	3-DH5	2402.00	2401.858	2402.857	1.00	0.841	Pass
NVNT	ANT1	3-DH5	2441.00	2440.855	2441.872	1.02	0.841	Pass
NVNT	ANT1	3-DH5	2480.00	2479.182	2480.145	0.96	0.841	Pass



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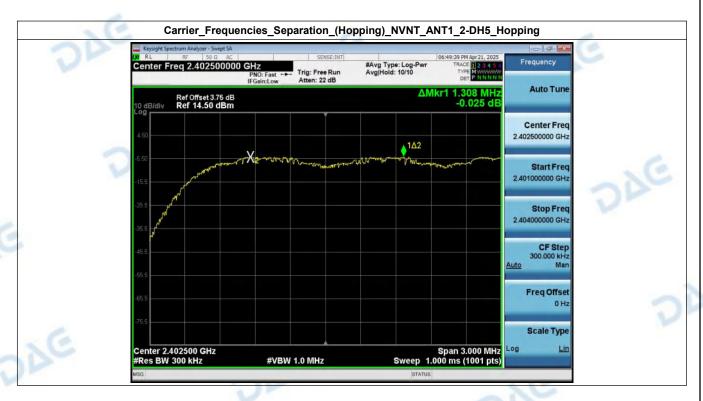
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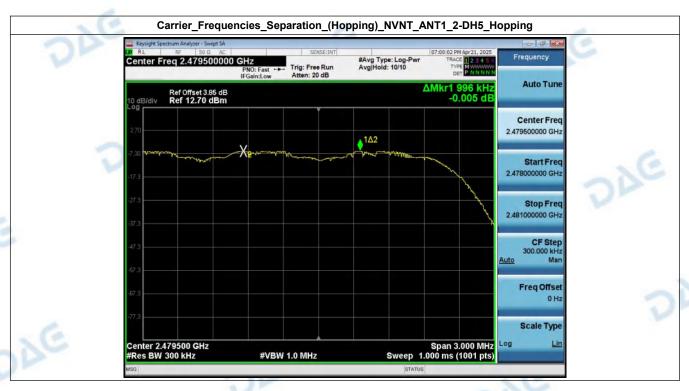
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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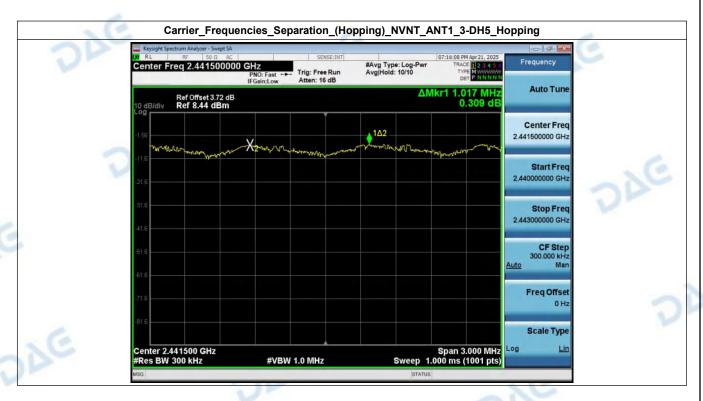
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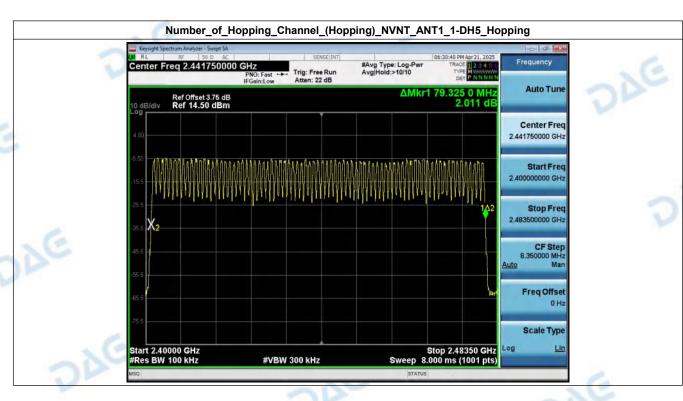




7. Number of Hopping Channel (Hopping)

V1.0

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass





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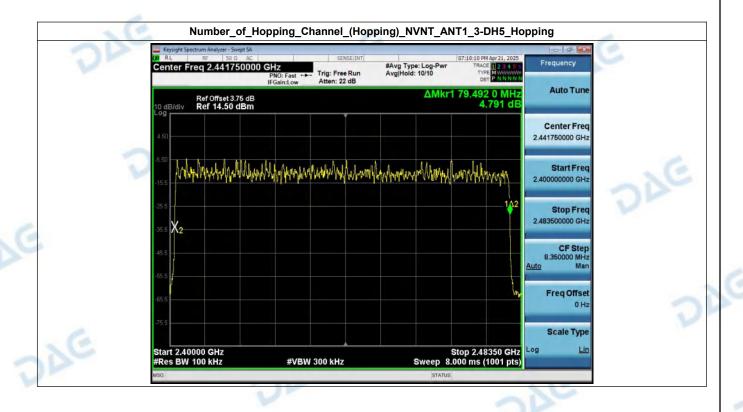
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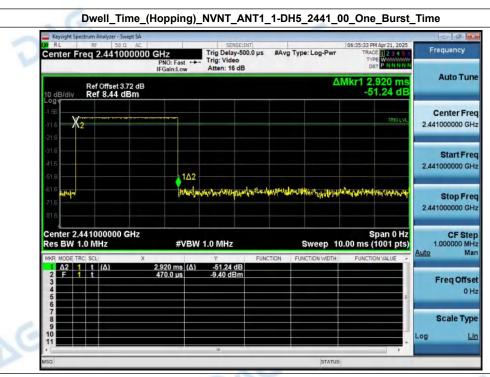
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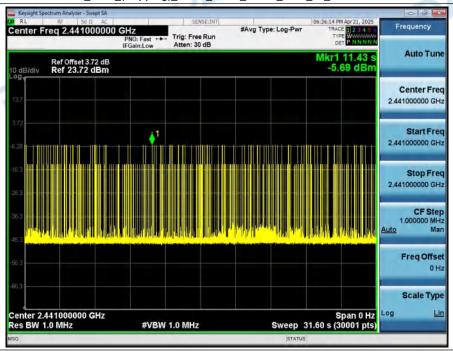
8. Dwell Time (Hopping)

V1.0

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.920	113.00	329.960	0.40	Pass
NVNT	ANT1	2-DH5	2.920	101.00	294.920	0.40	Pass
NVNT	ANT1	3-DH5	2.930	110.00	322.300	0.40	Pass



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated

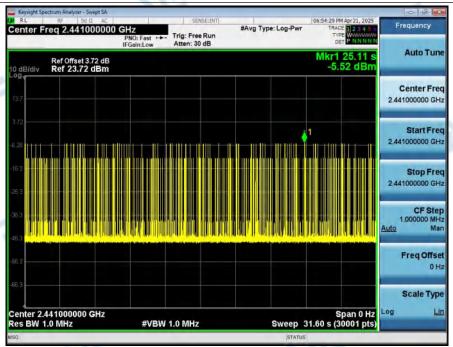


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time

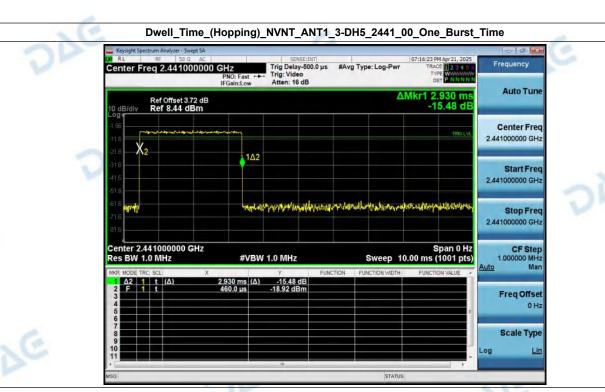
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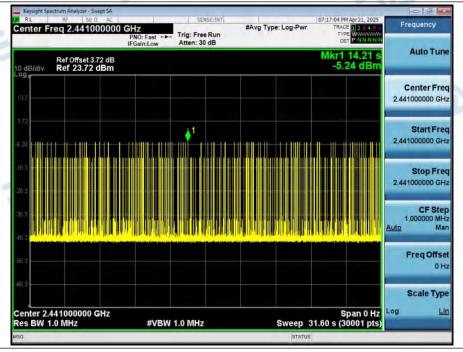
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_Accumulated



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Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_Accumulated



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