2	V1.0	20	E	Report No.: DACE240708022RL001	
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		duct N	bos Technology Co ame: android tv bo Model(s).: Sk1		
C					
	Report Reference No.	DACE24	708022RL001		
	FCC ID	2AL8Y-S			
0	Applicant's Name	Shenzhe	Ugoos Technology Co., Ltd		
	Address	Room 5H Shenzher	Building A, Bao'an Plaza, Sun'g , China	gang Road,Luohu District,	
	Testing Laboratory	Shenzhe	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 F	art 15.247		
	Date of Receipt	July 8, 20	24		
	Date of Test	July 8, 20	24 to July 24, 2024		
C	Data of Issue	July 24, 2	024		
	Result	Pass		E	
1	Note: This report shall not be report shall not be report string Technology Co., Ltd. This Co., Ltd. personnel only, and sh report only apply to the tested sa	ocument m e noted in	ay be altered or revised by Sher	zhen DACE Testing Technology	

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# **Revision History Of Report**

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE240708022RL001	July 24, 2024
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		OF C	

#### NOTE1:

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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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Ben Tang /Test Engineer

Tom Chen Tom Chen / Project Engineer

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Supervised by:

Approved by:

ø

Machael MJ

Machael Mo / Manager

1

 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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#### **TEST SUMMARY** 1

### 1.1 Test Standards

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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	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	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

DVC

Applicant's Name	:	Shenzhen Ugoos Technology Co., Ltd
Address	:	Room 5H, Building A, Bao'an Plaza, Sun'gang Road,Luohu District, Shenzhen, China
Manufacturer	:	Shenzhen Ugoos Technology Co., Ltd
Address	:	Room 5H, Building A, Bao'an Plaza, Sun'gang Road,Luohu District, Shenzhen, China

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# 2.2 Description of Device (EUT)

Product Name:	android tv box
Model/Type reference:	Sk1
Series Model:	sk1 lite,sk1 pro,sk1 plus, sk2,sk3
Model Difference:	The product has many models, only the model name is different, and the other parts such as the circuit principle, pcb and electrical structure are the same.
Trade Mark:	ugoos
Power Supply:	DC 12V/2A from adapter
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	Hardware antenna
Antenna Gain:	2.83dBi
Hardware Version:	V1.0
Software Version:	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
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
-							

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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:

DAC

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	Fre	equency (MHz)
rest channel		BDR/EDR
Lowest channel		2402MHz
Middle channel		2441MHz
Highest channel		2480MHz
	- XC	

# 2.3 Description of Test Modes

No	Title	Description
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.
тмз	TX-8DPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
Remark	:Only the data of the worst i	mode would be recorded in this report.

### 2.4 Description of Support Units

Title 🗸 🗸	Manufacturer	Model No.	Serial No.
PC	Lenovo	Air 14 Plus	

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### 2.5 Equipments Used During The Test

<b>Conducted Emission</b> a	at AC power line	200			5
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power absorbing clamp	SCHWARZ BECK	MESS- ELEKTRONIK	/	2024-03-25	2025-03-24
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	1	/
Cable	SCHWARZ BECK		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	/	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K 03-102109- MH	2024-06-12	2025-06-11
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	/

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### **Channel Separation Number of Hopping Frequencies**

**Dwell Time** 

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Emissions in non-restricted frequency bands

**Occupied Bandwidth** 

### Maximum Conducted Output Power

	Output i owei				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V2.0.0.0	/	/
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	1	2,40
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
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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fanufacturer Farad /	Model No EZ -EMC	Inventory No V1.1.42	Cal Date	Cal Due Date
1		VI.I. <del>T</del> Z	/	/
	MF-7802	C 1	1	1
ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	-10
OM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
OM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13
chwarzbeck	/		2024-02-19	2025-02-18
Schwarzbeck	/		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
chwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11
chwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11
R&S	CMW500	113410	2024-06-12	2025-06-11
R&S	FSP30	1321.3008K40 -101729-jR	2024-06-12	2025-06-11
inol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
unol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
R&S	ESCI	102109	2024-06-12	2025-06-11
	OM-POWER ZHINAN chwarzbeck chwarzbeck chwarzbeck chwarzbeck chwarzbeck chwarzbeck chwarzbeck R&S R&S R&S	OM-POWERAH-1840OM-POWERAH-1840 (18-40G)ZHINANZN30900Cchwarzbeck/chwarzbeck/chwarzbeckAK9515EchwarzbeckSYV-50-3-1chwarzbeckBBV9743chwarzbeckBBV9718R&SCMW500R&SFSP30nol SciencesDRH-118nol SciencesJB6 Antenna	OM-POWER         AH-1840         1010008-1           OM-POWER         AH-1840 (18-40G)         10100008           ZHINAN         ZN30900C         ZN30900C           chwarzbeck         /         /           chwarzbeck         /         /           chwarzbeck         AK9515E         96250           chwarzbeck         SYV-50-3-1         /           chwarzbeck         BBV9743         9743-151           chwarzbeck         BBV9718         9718-282           R&S         CMW500         113410           R&S         FSP30         1321.3008K40 -101729-jR           nol Sciences         DRH-118         A091114           nol Sciences         JB6 Antenna         A090414	OM-POWERAH-18401010008-12022-04-05OM-POWERAH-1840 (18-40G)101000082023-04-05ZHINANZN30900CZN30900C2024-06-14chwarzbeck//2024-02-19chwarzbeck//2024-02-19chwarzbeck//2024-03-20chwarzbeckSYV-50-3-1/2024-03-20chwarzbeckBBV97439743-1512024-06-12chwarzbeckBBV97189718-2822024-06-12chwarzbeckCMW5001134102024-06-12R&SFSP301321.3008K40 -101729-jR2024-06-12nol SciencesDRH-118A0911142023-05-21

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### 2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±2.72dB
Occupied Bandwidth	±3.63%
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%

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.
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Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
Identification of the Responsi	ble 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.

#### Report No.: DACE240708022RL001

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#### **Evaluation Results (Evaluation)** 3

### 3.1 Antenna requirement

Test Requirement:

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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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Report No.: DACE240708022RL001

#### Radio Spectrum Matter Test Results (RF) 4

## 4.1 Conducted Emission at AC power line

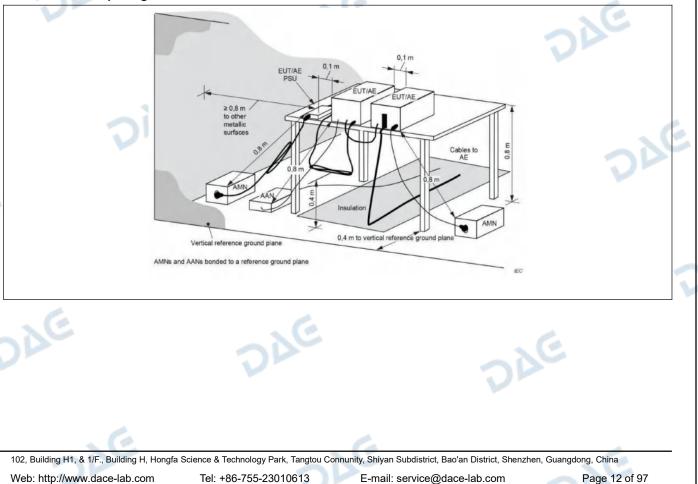
Test Requirement: Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onter AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 5 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	<b>V</b>	4		
Procedure:	Refer to ANSI C63.10-2013 section conducted emissions from unlicense		for ac power-line		
4.1.1 E.U.T. Operation:	.e				

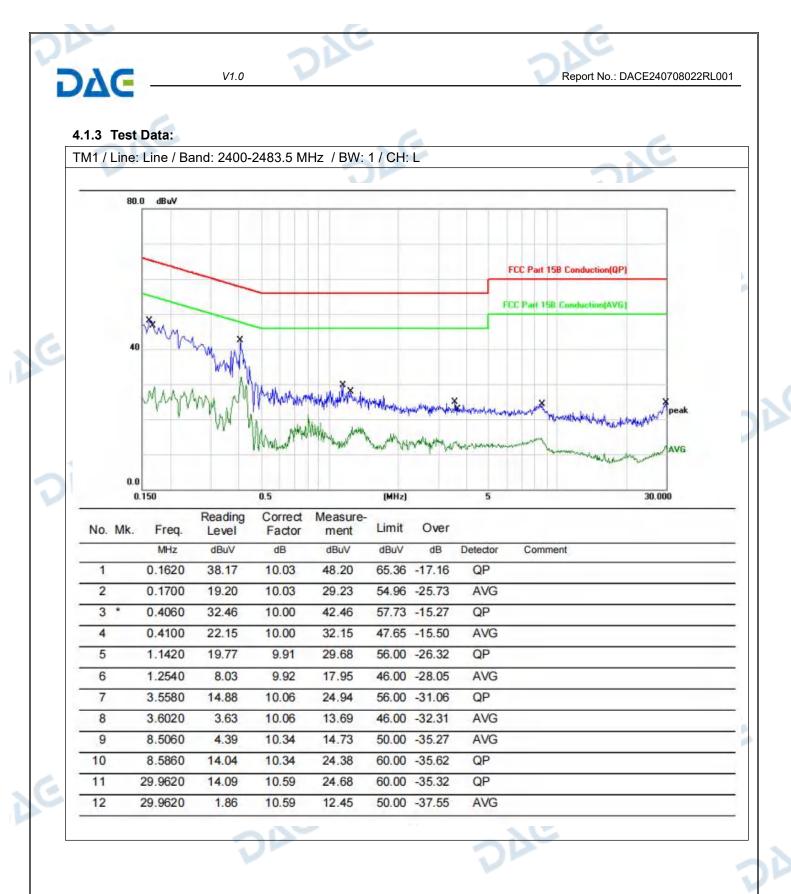
### 4.1.1 E.U.T. Operation:

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Operating Environment:							C
Temperature:	23.1 °C		Humidity:	46 %	A	Atmospheric Pressure:	101 kPa
Pretest mode: TM		TM1,	TM2, TM3			V	
Final test mode:		TM1					

### 4.1.2 Test Setup Diagram:





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DVC V1.0 Report No.: DACE240708022RL001 TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L 80.0 dBuV FCC Part 15B Conduction(QP) FCC P 15B C AVG 41 AVG 0.0 0.150 0.5 (MHz) 5 30.000 Correct Reading Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 0.1500 37.57 47.62 1 \* 10.05 65.99 -18.37 QP

2	0.1660	17.15	10.03	27.18	55.15 -27.97	AVG
3	0.3500	28.94	10.01	38.95	58.96 -20.01	QP
4	0.4100	14.45	10.00	24.45	47.65 -23.20	AVG
5	1.1300	20.91	9.91	30.82	56.00 -25.18	QP
6	1.2140	3.88	9.92	13.80	46.00 -32.20	AVG
7	2.5420	11.47	10.00	21.47	56.00 -34.53	QP
8	2.5420	-1.57	10.00	8.43	46.00 -37.57	AVG
9	8.8020	16.55	10.35	26.90	60.00 -33.10	QP
10	8.8020	2.72	10.35	13.07	50.00 -36.93	AVG
11	29.9660	15.18	10.59	25.77	60.00 -34.23	QP
12	29.9660	2.46	10.59	13.05	50.00 -36.95	AVG

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# 4.2 Occupied Bandwidth

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4.2 Occupied Bandw	lidth	
Test Requirement:	47 CFR 15.247(a)(1)	
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiat provisions to the general emission limits, as and in subpart E of this part, must be design of the emission, or whatever bandwidth may rule section under which the equipment oper band designated in the rule section under wh	contained in §§ 15.217 through 15.257 ed to ensure that the 20 dB bandwidth otherwise be specified in the specific rates, is contained within the frequency
Test Method:	ANSI C63.10-2013, section 7.8.7, For occup procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v0	
Procedure:	a) The spectrum analyzer center frequency i center frequency. The span range for the EM be between two times and five times the OB b) The nominal IF filter bandwidth (3 dB RBW the OBW and video bandwidth (VBW) shall B unless otherwise specified by the applicable c) Set the reference level of the instrument a	Il receiver or spectrum analyzer shall W. V) shall be in the range of 1% to 5% of be approximately three times RBW, requirement. as required, keeping the signal from
1C	exceeding the maximum input mixer level for of the spectral envelope shall be more than a reference level. Specific guidance is given in d) Steps a) through c) might require iteration tolerances. e) The dynamic range of the instrument at th	[10 log (OBW/RBW)] below the 4.1.5.2. to adjust within the specified
DAC	dB below the target "-xx dB down" requirem measuring the -20 dB OBW, the instrument be at least 30 dB below the reference value. f) Set detection mode to peak and trace mod g) Determine the reference value: Set the EL or modulated signal, as applicable. Allow the analyzer marker to the highest level of the di value).	ent; that is, if the requirement calls for noise floor at the selected RBW shall de to max hold. JT to transmit an unmodulated carrier e trace to stabilize. Set the spectrum
DÀ	<ul> <li>h) Determine the "-xx dB down amplitude" u Alternatively, this calculation may be made b instrument.</li> <li>i) If the reference value is determined by an modulation ON, and either clear the existing spectrum analyzer and allow the new trace t</li> </ul>	by using the marker-delta function of the unmodulated carrier, then turn the EUT trace or start a new trace on the
	step g) shall be used for step j). j) Place two markers, one at the lowest frequercy of the envelope of the spectral dissightly below the "-xx dB down amplitude" d below this "-xx dB down amplitude" value, the this value. The occupied bandwidth is the free markers. Alternatively, set a marker at the low spectral display, such that the marker is at of amplitude" determined in step h). Reset the	play, such that each marker is at or etermined in step h). If a marker is nen it shall be as close as possible to equency difference between the two west frequency of the envelope of the r slightly below the "-xx dB down marker-delta function and move the
AE	marker to the other side of the emission until same level as the reference marker amplitud at this point is the specified emission bandwi k) The occupied bandwidth shall be reported instrument display; the plot axes and the sca labeled. Tabular data may be reported in add	le. The marker-delta frequency reading idth. I by providing plot(s) of the measuring ale units per division shall be clearly
	labeled. Tabulai data may be reported in add	
4.2.1 E.U.T. Operation:		
<b>4.2.1 E.U.T. Operation:</b> Operating Environment:		

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	DAC	
<b>D</b> 7€ —	V1.0	Report No.: DACE240708022RL001
Pretest mode: Final test mode:	TM1, TM2, TM3 TM1, TM2, TM3	E
4.2.2 Test Setup Di		240
4.2.3 Test Data:		TST PASS
Please Refer to Appe	ndix for Details.	

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Report No.: DACE240708022RL001

### 4.3 Maximum Conducted Output Power

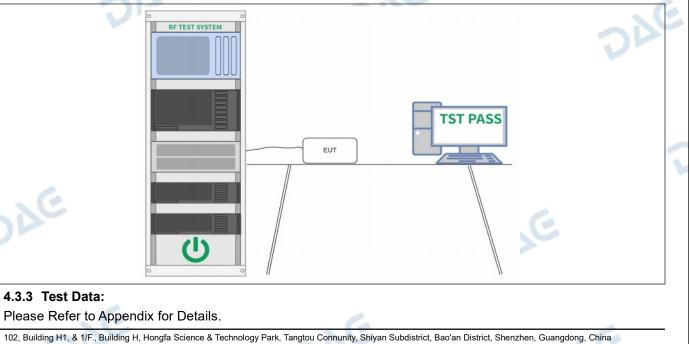
Test Requirement: Test Limit:	47 CFR 15.247(b)(1)
Test Limit <sup>.</sup>	
	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For 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:	<ul> <li>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:</li> <li>a) Use the following spectrum analyzer settings:</li> <li>1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <li>2) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>3) VBW &gt;= RBW.</li> <li>4) Sweep: Auto.</li> <li>5) Detector function: Peak.</li> <li>6) Trace: Max hold.</li> </ul>
	<ul> <li>b) Allow trace to stabilize.</li> <li>c) Use the marker-to-peak function to set the marker to the peak of the emission.</li> <li>d) The indicated level is the peak output power, after any corrections for external attenuators and cables.</li> <li>e) A plot of the test results and setup description shall be included in the test report.</li> <li>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.</li> </ul>
4.3.1 E.U.T. Operation:	E E

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#### 4.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.1 °C		Humidity:	46 %	Atmospheric Pressure:	101 kPa		
Pretest mode: TM			TM2, TM3			*		
Final test mode: TM1, TM2, TM3			TM2, TM3					
4.3.2 Test Setu	ip Diagra	m:			10			

### 4.3.2 Test Setup Diagram:



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### 4.4 Channel Separation

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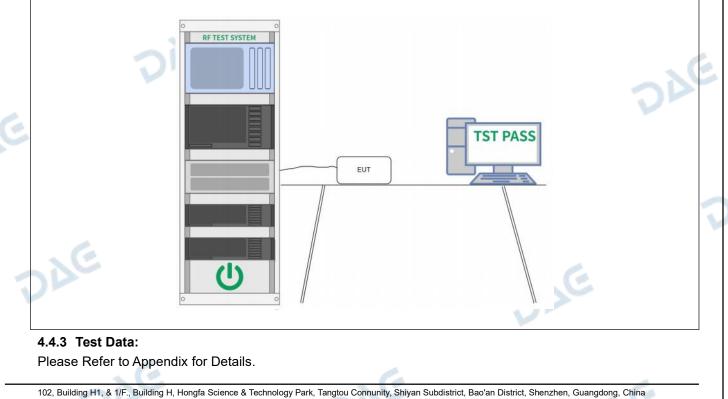
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating 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:	<ul> <li>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</li> <li>a) Span: Wide enough to capture the peaks of two adjacent channels.</li> <li>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.</li> <li>c) Video (or average) bandwidth (VBW) ≥ RBW.</li> </ul>
1e	<ul> <li>d) Sweep: Auto.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max hold.</li> <li>g) Allow the trace to stabilize.</li> <li>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.</li> </ul>

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### 4.4.1 E.U.T. Operation:

Operating Environment:							
Temperature: 23.1 °C		Humidity:	46 %	-	Atmospheric Pressure:	101 kPa	
Pretest mode:	TM4, <sup>-</sup>	TM5, TM6		C		. (.	
Final test mode:	TM4, <sup>-</sup>	TM5, TM6	N			200	

### 4.4.2 Test Setup Diagram:



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### 4.5 Number of Hopping Frequencies

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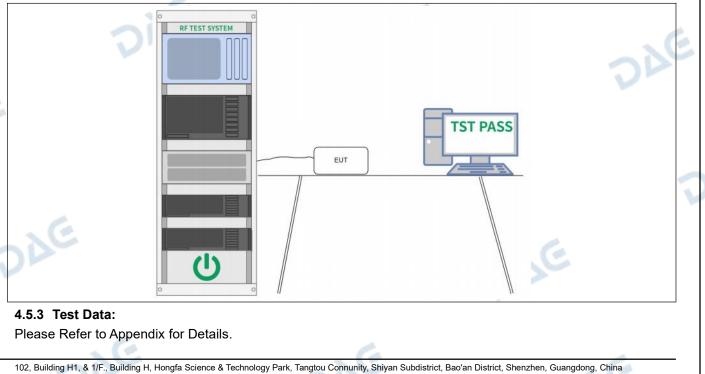
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by 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.

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### 4.5.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.1 °C		Humidity:	46 %	N.	Atmospheric Pressure:	101 kPa	C
Pretest mode: TM4, TM5, TM6			TM5, TM6				22	
Final test mode: TM4, TM5, TM			TM5, TM6					

4.5.2 Test Setup Diagram:



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## 4.6 Dwell Time

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4.6 Dwell Time		
Test Requirement:	47 CFR 15.247(a)(1)(iii)	- NG
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping syste MHz band shall use at least 15 channels. The average tim channel shall not be greater than 0.4 seconds within a per multiplied by the number of hopping channels employed. F systems may avoid or suppress transmissions on a particu- provided that a minimum of 15 channels are used.	e of occupancy on any iod of 0.4 seconds Frequency hopping
Test Method:	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02	20
Procedure:	KDB 558074 D01 15.247 Meas Guidance v05r02 The EUT shall have its hopping function enabled. Use the analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible F T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per where possible use a video trigger and trigger delay so that starts a little to the right of the start of the plot. The trigger adjustment to prevent triggering when the system hops on second plot might be needed with a longer sweep time to a hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit tim varies with different modes of operation (data rate, modula hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to de hops over the period specified in the requirements. The sw to, or less than, the period specified in the requirements. Determine the number of hops over the sweet total number of hops in the period specified in the requirement (number of hops on spectrum analyzer) × (period specified analyzer sweep time) The average time of occupancy is calculated from the transmit number of hops in a specific time varies with different mode rate, modulation format, number of hopping channels, etc.	RBW should be set >> 1 / er hopping channel; at the transmitted signal level might need slight an adjacent channel; a show two successive ne per hop. If this value ation format, number of termine the number of veep time shall be equal eep time and calculate the nents, using the following hts) = d in the requirements / smit time per hop the requirements. If the les of operation (data
	each variation. The measured transmit time and time between hops shall values described in the operational description for the EUT	be consistent with the

e.

### 4.6.1 E.U.T. Operation:

Operating Envir	Operating Environment:				JP-		
Temperature:	23.1 °C		Humidity:	46 %	Atmospheric Pressure:	101 kPa	1
Pretest mode:	Pretest mode: TM4, TM5, TM6						
Final test mode:	Final test mode: TM4, TM5, TM6			6			
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	V1.0	Report No.: DACE240708022RL001
4.6.2 Test Setup Dia		TST PASS
<b>4.6.3 Test Data:</b> Please Refer to Appe	ndix for Details.	. E

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#### Report No.: DACE240708022RL001

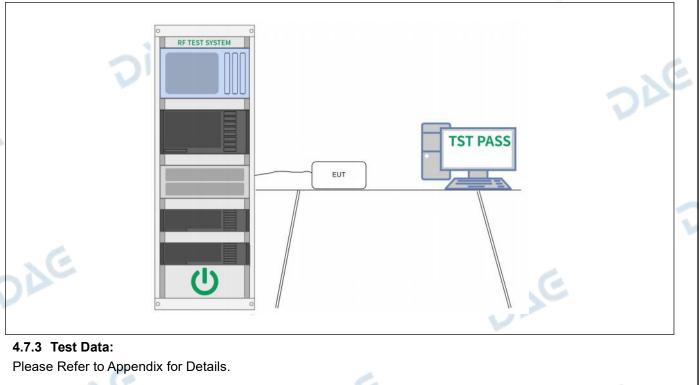
### 4.7 Emissions in non-restricted frequency bands

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 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: 23.1 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa			
Pretest mode:	TM1, TM2, TM3,	TM4, TM5, TM6	1	. (.			
Final test mode:	TM1, TM2, TM3,	TM4, TM5, TM6		200			

#### 4.7.2 Test Setup Diagram:



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### 4.8 Band edge emissions (Radiated)

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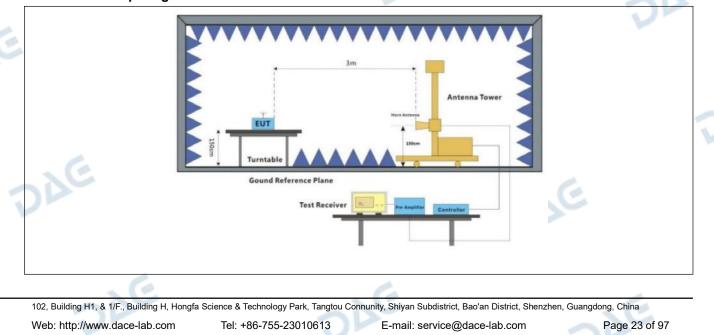
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).						
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
20	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				
AE	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 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 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.						
Test Method:		ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02					
Procedure:	ANSI C63.10-2013 sect	ion 6.10.5.2	.C.				
4.8.1 E.U.T. Operation:	1		200				

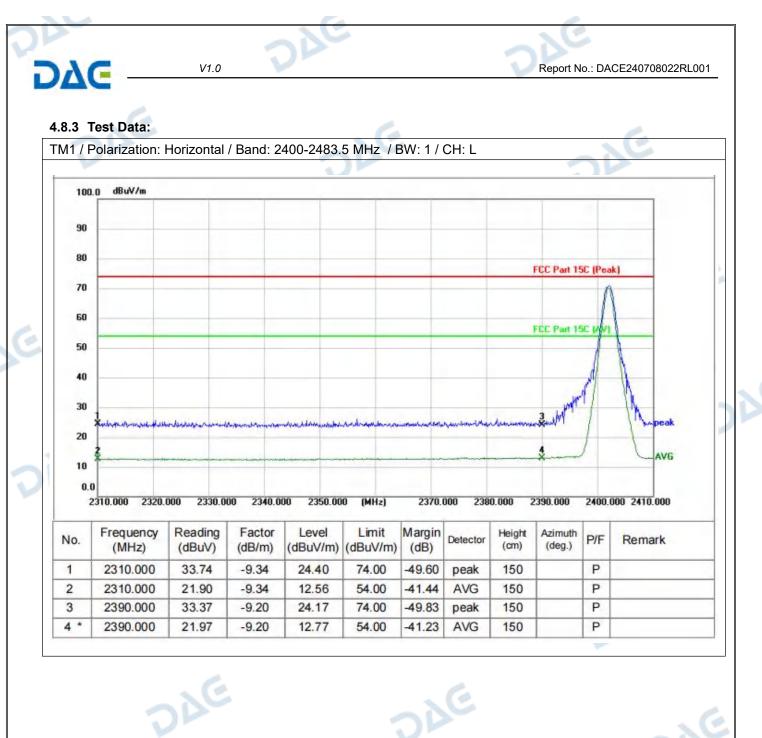
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# 4.8.1 E.U.T. Operation:

Operating Envir	Operating Environment:							
Temperature:	23.1 °C		Humidity:	46 %	Atmospheric Pressure:	101 kPa		
Pretest mode: TM1			FM1, TM2, TM3					
Final test mode: TM1, TM2, TM3			TM2, TM3		200			

### 4.8.2 Test Setup Diagram:





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TM1 / Po			ii / Danu.	2100 2		X							2	-	
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2C	No.	Frequency (MHz)	(dBuV)	(dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Rema	rk		
		0040.000	34.30	-10.64	23.66	74.00	-50.34	peak	150		P			-	
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2	1 2 3 4 *	2310.000 2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	74.00 54.00 74.00 54.00	-41.38 -49.70 -41.18	AVG peak AVG	150 150 150		P P P				
2	2	2310.000 2390.000	23.26 34.69	-10.64 -10.39	12.62 24.30	54.00 74.00	-41.38 -49.70	peak	150 150		P P P			E	
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39	12.62 24.30	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150		P P P			E	
D	234*	2310.000 2390.000	23.26 34.69 23.21	-10.64 -10.39	12.62 24.30	54.00 74.00 54.00	-41.38 -49.70	peak AVG	150 150 150		P P P				عر ا
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39	12.62 24.30	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150		P P P			5 0	Se
E	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150		PPP				Se
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150		PPP				Se
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150		PPP				Se
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150	E	PPP				JC T
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150	JC.	PPP				JC T
	234*	2310.000 2390.000 2390.000	23.26 34.69 23.21	-10.64 -10.39 -10.39	12.62 24.30 12.82	54.00 74.00 54.00	-41.38 -49.70 -41.18	peak AVG	150 150 150	JC.	PPP				

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DE	No.         Frequency (MHz)           1         2483.500	Reading (dBuV) 49.75	Factor (dB/m) -9.03	Level (dBuV/m) 40.72	Limit (dBuV/m) 74.00	Margin (dB) -33.28	Detector peak	Height (cm) 150	Azimuth (deg.)	P/F P	Remark	
	2 * 2483.500 3 2500.000 4 2500.000	36.44 33.88 21.90	-9.03 -9.00 -9.00	27.41 24.88 12.90	54.00 74.00 54.00	-26.59 -49.12 -41.10	AVG peak AVG	150 150 150		P P P		

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					A second									-	
Nº.	No.	Frequency (MHz) 2483.500	Reading (dBuV) 42.61	Factor (dB/m)		Limit (dBuV/m) 74.00		Devector	Height (cm)	Azimuth (deg.)	PIF	Remark	_		
)AC	1 2 *	(MHz) 2483.500 2483.500	(dBuV) 42.61 29.87	(dB/m) -10.10 -10.10	(dBuV/m) 32.51 19.77	(dBuV/m) 74.00 54.00	(dB) -41.49 -34.23	peak AVG	(cm) 150 150		P/F P P	Remark		_	
D D	1	(MHz) 2483.500 2483.500 2500.000 2500.000	(dBuV) 42.61	(dB/m) -10.10	(dBuV/m) 32.51	(dBuV/m) 74.00	(dB) -41.49	peak AVG peak	(cm) 150		P	Remark		E	
D	1 2* 3 4	(MHz) 2483.500 2483.500 2500.000 2500.000	(dBuV) 42.61 29.87 34.88 22.96	(dB/m) -10.10 -10.10 -10.05	(dBuV/m) 32.51 19.77 24.83 12.91	(dBuV/m) 74.00 54.00 74.00 54.00	(dB) -41.49 -34.23 -49.17 -41.09	peak AVG peak AVG	(cm) 150 150 150 150		P/F P P	Remark	) ) )	E	C
	1 2* 3 4	(MHz) 2483.500 2500.000 2500.000	(dBuV) 42.61 29.87 34.88 22.96	(dB/m) -10.10 -10.05 -10.05	(dBuV/m) 32.51 19.77 24.83 12.91	(dBuV/m) 74.00 54.00 74.00 54.00	(dB) -41.49 -34.23 -49.17	peak AVG peak AVG	(cm) 150 150 150		P P P	Remark	) ) )	E	, e

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# 4.9 Emissions in frequency bands (below 1GHz)

Test Requirement:	uirement: 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				
Test Method:	these frequency bands i and 15.241. In the emission table abo The emission limits show employing a CISPR qua 110–490 kHz and above are based on measurem ANSI C63.10-2013 section		is of this part, e.g., §§ 15.23 the band edges. d on measurements frequency bands 9–90 kHz i limits in these three bands				
200	KDB 558074 D01 15.24	7 Meas Guidance v05r02	4				
Procedure:	above the ground at a 3 360 degrees to determine 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 to d. The antenna height is determine the maximum polarizations of the anter e. For each suspected et the antenna was tuned to below 30MHz, the anter was turned from 0 degree f. The test-receiver syste Bandwidth with Maximum g. If the emission level of specified, then testing cor reported. Otherwise the tested one by one using reported in a data sheet h. Test the EUT in the lo i. The radiation measure Transmitting mode, and j. Repeat above procedu	f the EUT in peak mode was 10 buld be stopped and the peak v emissions that did not have 100 peak, quasi-peak or average n	amber. The table was rotate diation. a rotating table 1.5 meters The table was rotated 360 on. ference-receiving antenna, enna tower. meters above the ground to h horizontal and vertical frement. d to its worst case and then ters (for the test frequency of er) and the rotatable table naximum reading. ction and Specified DdB lower than the limit values of the EUT would be dB margin would be re- nethod as specified and the hel, the Highest channel. axis positioning for nich it is the worst case.				
.C		GHz, through pre-scan found th	4				

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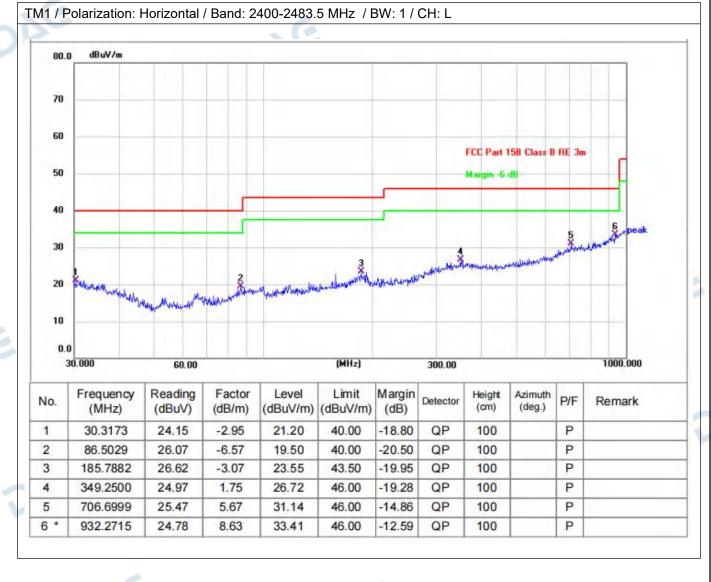
 E-mail: service@dace-lab.com
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D7C	V1.0	Report No.: DACE240708022RL00
246	Preamplifier. The basic equation Final Test Level =Receiver Rea Preamplifier Factor 3) Scan from 9kHz to 25GHz, to was very low. The points marked found when testing, so only ab spurious emissions from the rational spurious emissions emis	s recorded in the report. ed by adding the Antenna Factor, Cable Factor & on with a sample calculation is as follows: ading + Antenna Factor + Cable Factor "C the disturbance above 12.75GHz and below 30MHz ed on above plots are the highest emissions could be ove points had been displayed. The amplitude of idiator which are attenuated more than 20dB below Fundamental frequency is blocked by filter, and only

#### 4.9.1 E.U.T. Operation:

Operating Environment:										
Temperature:	23.1 °C		Humidity:	46 %	Atmospheric Pressure:	101 kPa				
Pretest mode:		TM1,	TM2, TM3		. 6					
Final test mode:		TM1,	TM2, TM3		200					

### 4.9.2 Test Data:

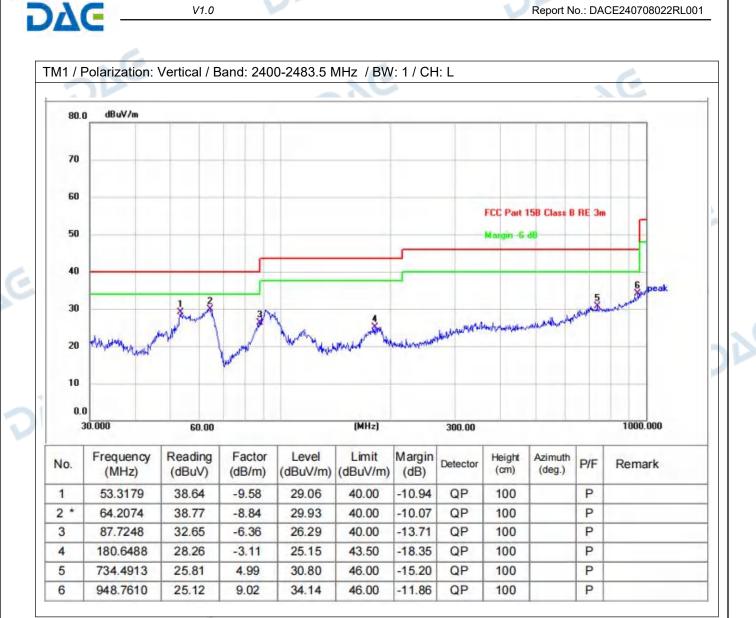


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# 4.10 Emissions in frequency bands (above 1GHz)

Test Requirement:		ssions which fall in the restricter mply with the radiated emission (c)).`	
Fest 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
Test Method:	and 15.241. In the emission table ab The emission limits show employing a CISPR qua 110–490 kHz and above are based on measurem ANSI C63.10-2013 section		he band edges. I on measurements frequency bands 9–90 kHz limits in these three bands
22		7 Meas Guidance v05r02	
Procedure:	above the ground at a 3 360 degrees to determine 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 the d. The antenna height is determine the maximum polarizations of the anter e. For each suspected et the antenna was tuned to below 30MHz, the anter was turned from 0 degree f. The test-receiver syste Bandwidth with Maximum g. If the emission level of specified, then testing of reported. Otherwise the tested one by one using reported in a data sheet h. Test the EUT in the lo i. The radiation measure Transmitting mode, and j. Repeat above procedu	If the EUT in peak mode was 10 buld be stopped and the peak va emissions that did not have 10 peak, quasi-peak or average m	a rotating table 1.5 meters diation. a rotating table 1.5 meters The table was rotated 360 on. Gerence-receiving antenna, onna tower. meters above the ground to n horizontal and vertical rement. It to its worst case and then ters (for the test frequency of er) and the rotatable table maximum reading. Ction and Specified OdB lower than the limit alues of the EUT would be dB margin would be re- method as specified and the nel, the Highest channel. axis positioning for ich it is the worst case.
.6	Remark: 1) For emission below 1	GHz, through pre-scan found th	e worst case is the lowest

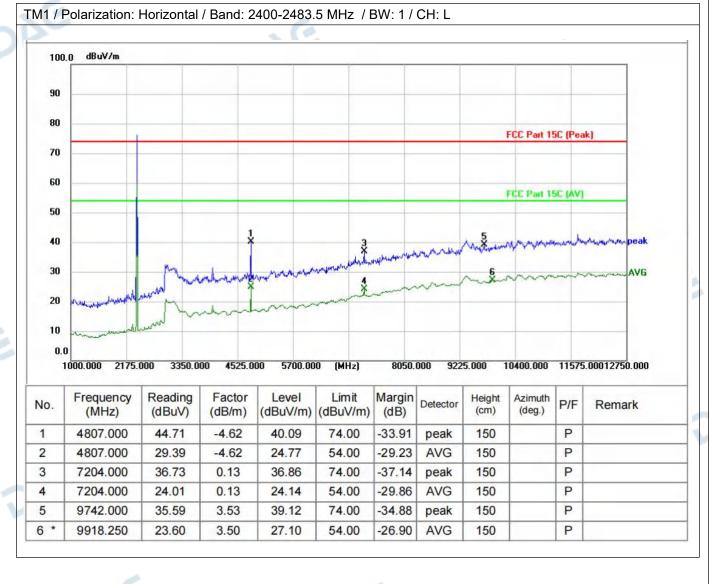
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DAG	V1.0	Report No.: DACE240708022RL001
DAG	Preamplifier. The basic equa Final Test Level =Receiver R Preamplifier Factor 3) Scan from 9kHz to 25GHz was very low. The points ma found when testing, so only a spurious emissions from the	e is recorded in the report. lated by adding the Antenna Factor, Cable Factor & tion with a sample calculation is as follows: Reading + Antenna Factor + Cable Factor "C z, the disturbance above 12.75GHz and below 30MHz rked on above plots are the highest emissions could be above points had been displayed. The amplitude of radiator which are attenuated more than 20dB below d. Fundamental frequency is blocked by filter, and only

#### 4.10.1 E.U.T. Operation:

Operating Environment:										
Temperature:	23.1 °C		Humidity:	46 %	Atmospheric Pressure:	101 kPa				
Pretest mode:		TM1,	TM2, TM3		. 6					
Final test mode:		TM1			200					
L										

#### 4.10.2 Test Data:

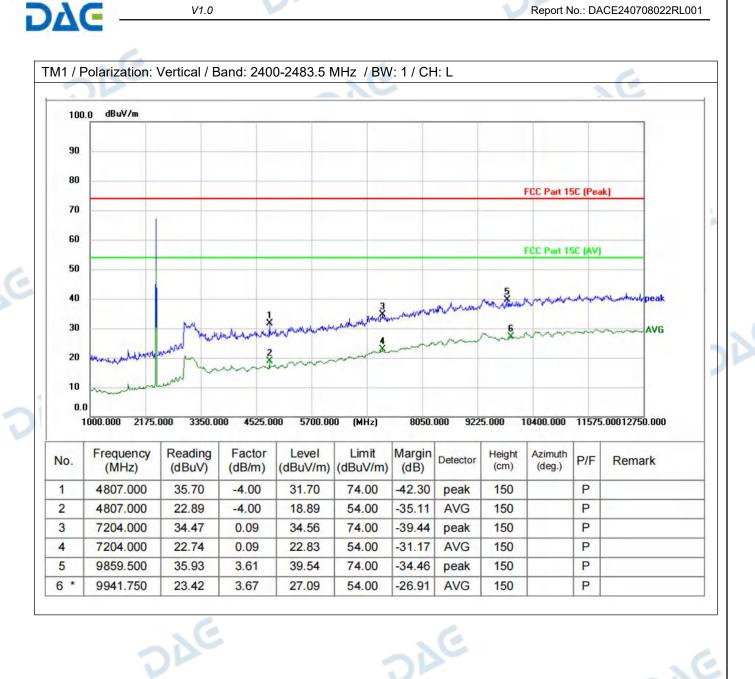


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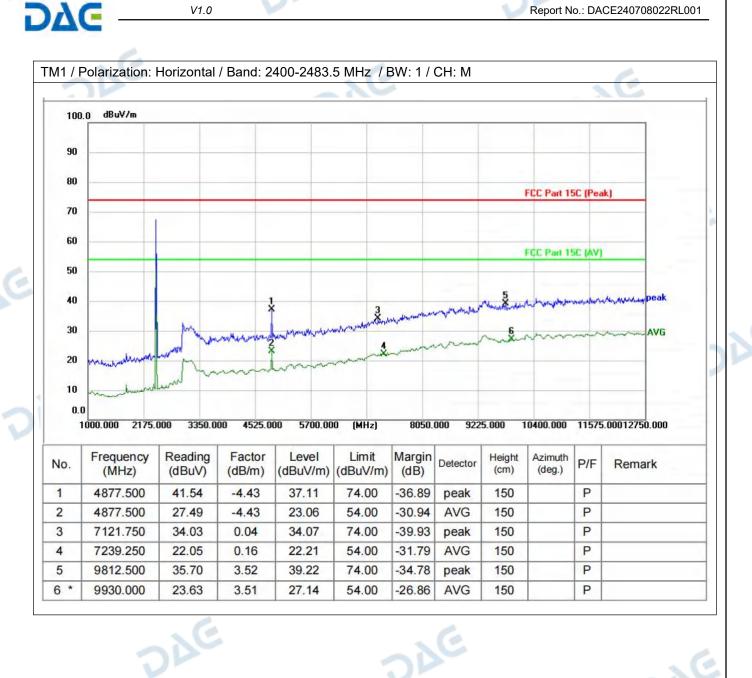
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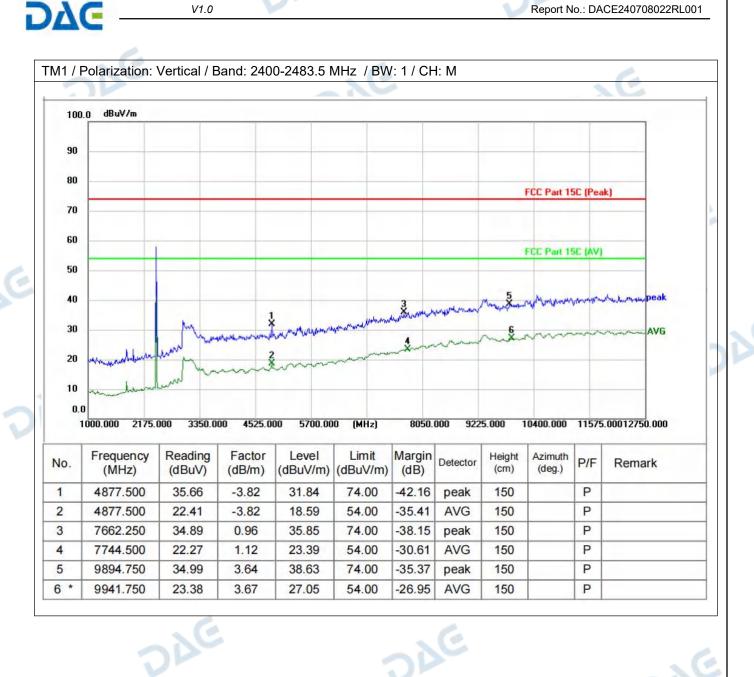
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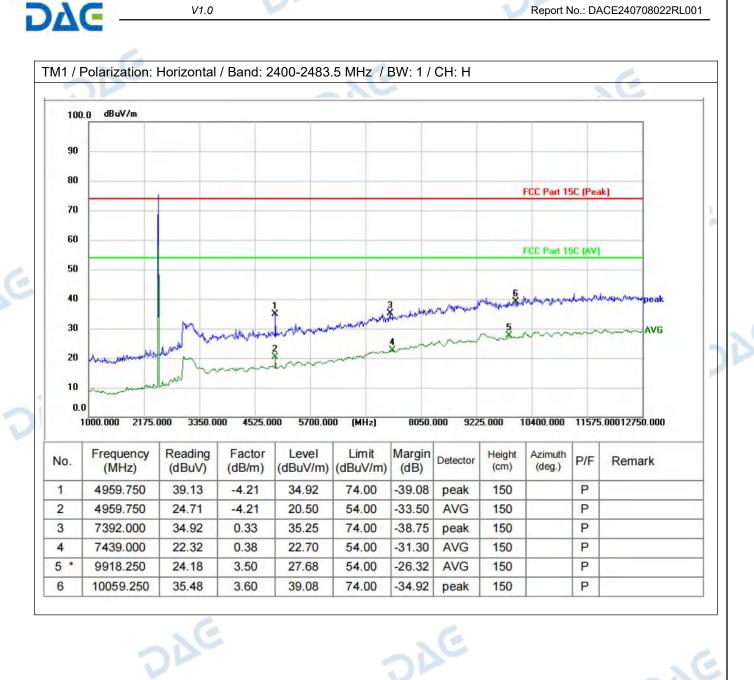
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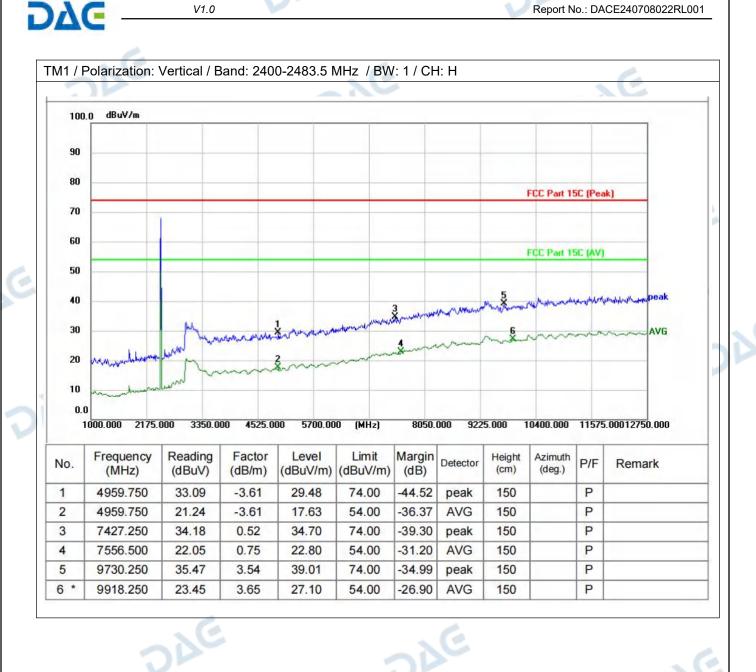
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# HT240708005--Sk1--EDR--FCC FCC\_BT (Part15.247) Test Data

### 1. -20dB Bandwidth

V1.0

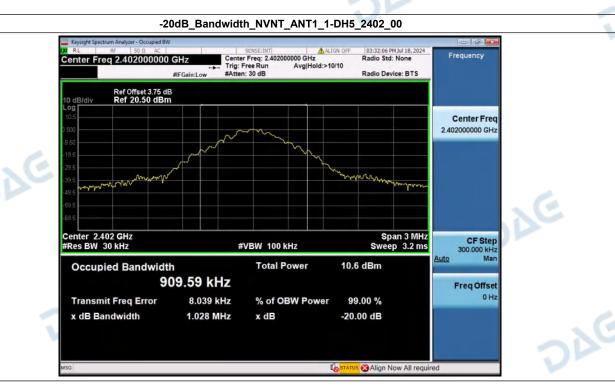
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Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.028	Yes
NVNT	ANT1	1-DH5	2441.00	1.032	Yes
NVNT 🝆	ANT1	1-DH5	2480.00	1.029	Yes
NVNT	ANT1	2-DH5	2402.00	1.370	Yes
NVNT	ANT1	2-DH5	2441.00	1.371	Yes
NVNT	ANT1	2-DH5	2480.00	1.369	Yes
NVNT	ANT1	3-DH5	2402.00	1.352	Yes
NVNT	ANT1	3-DH5	2441.00	1.353	Yes
NVNT	ANT1	3-DH5	2480.00	1.352	Yes



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## 2. 99% Occupied Bandwidth

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Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.909
NVNT	ANT1	1-DH5	2441.00	0.911
NVNT	ANT1	1-DH5	2480.00	0.909
NVNT	ANT1	2-DH5	2402.00	1.212
NVNT	ANT1	2-DH5	2441.00	1.212
NVNT	ANT1	2-DH5	2480.00	1.207
NVNT	ANT1	3-DH5	2402.00	1.218
NVNT	ANT1	3-DH5	2441.00	1.218
NVNT	ANT1	3-DH5	2480.00	1.213

#### 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH5\_2402\_00



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### 3. Peak Output Power

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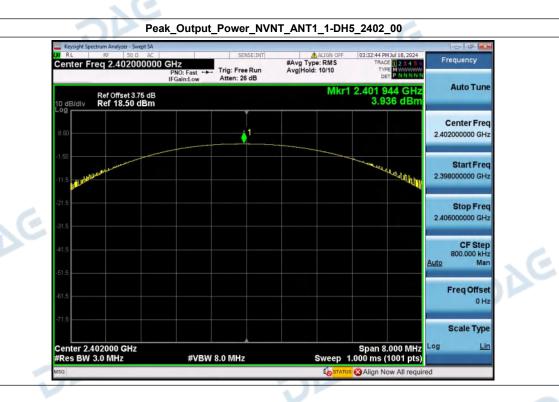
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Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	3.94	2.48	125	Pass
NVNT	ANT1	1-DH5	2441.00	3.66	2.32	125	Pass
NVNT	ANT1	1-DH5	2480.00	3.51	2.24	125	Pass
NVNT	ANT1	2-DH5	2402.00	5.76	3.77	125	Pass
NVNT	ANT1	2-DH5	2441.00	5.50	3.55	125	Pass
NVNT	ANT1	2-DH5	2480.00	5.44	3.50	125	Pass
NVNT	ANT1	3-DH5	2402.00	6.10	4.07	125	Pass
NVNT	ANT1	3-DH5	2441.00	5.47	3.53	125	Pass
NVNT	ANT1	3-DH5	2480.00	5.51	3.56	125	Pass

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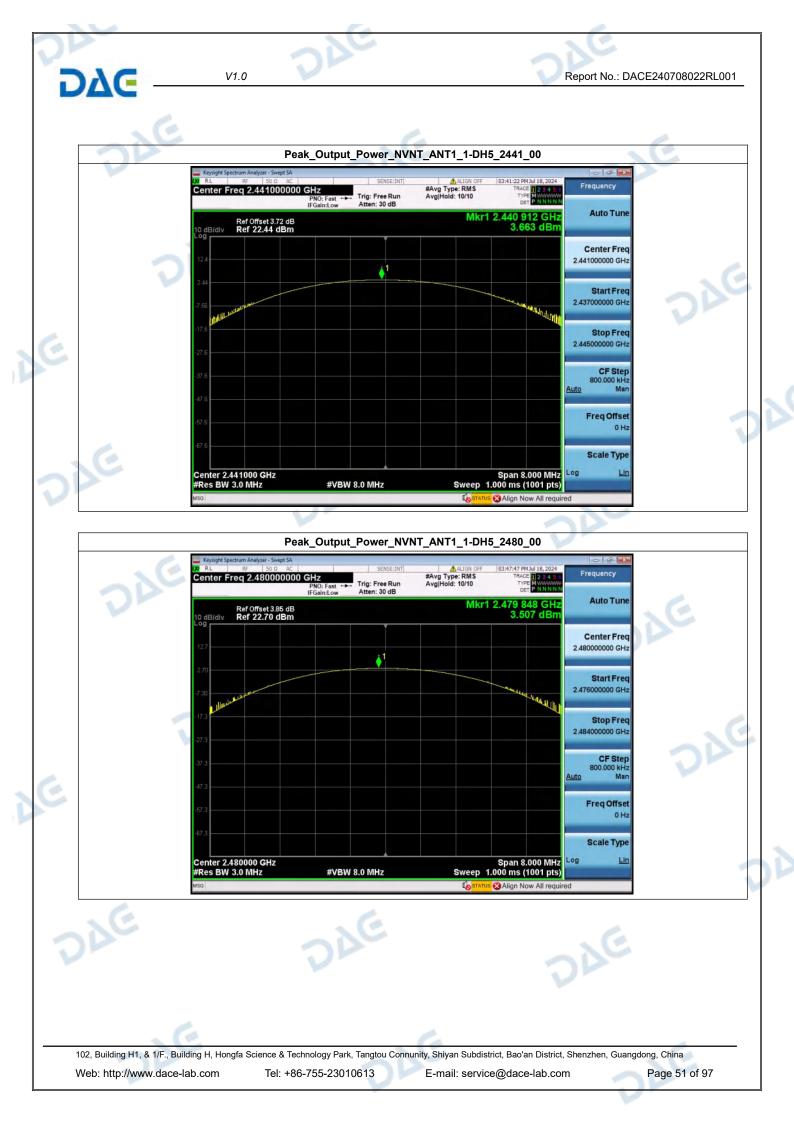
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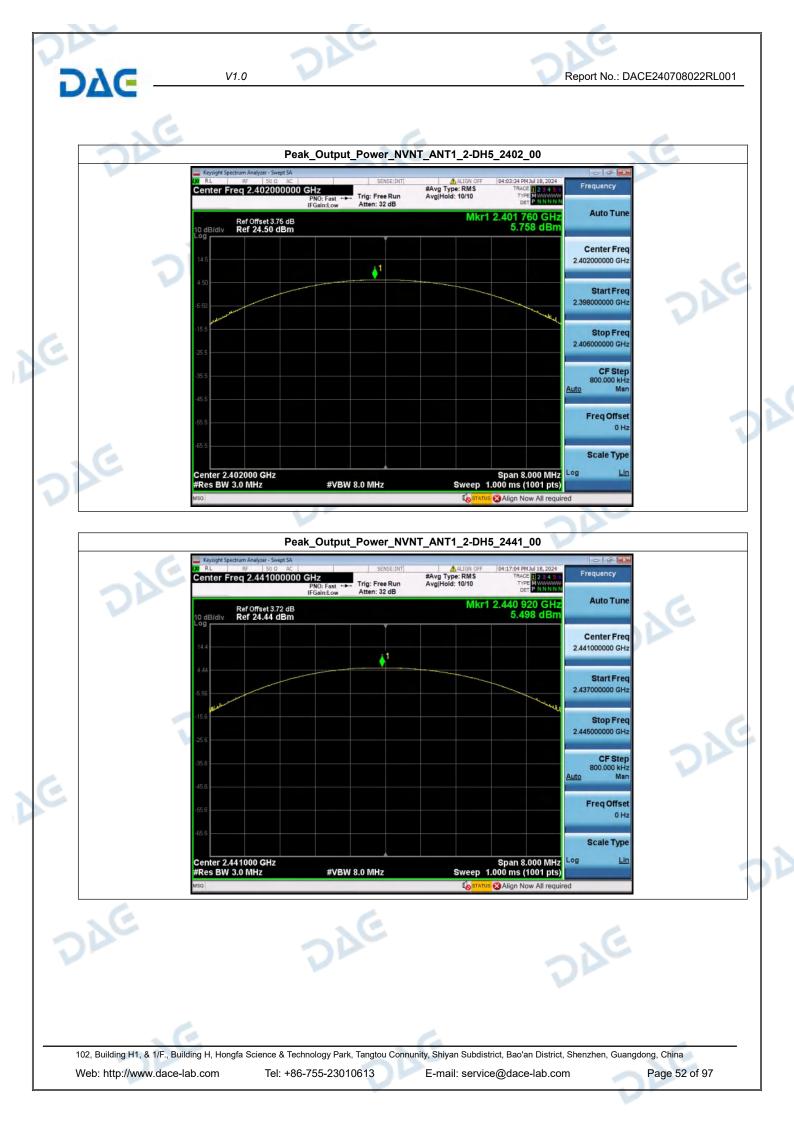
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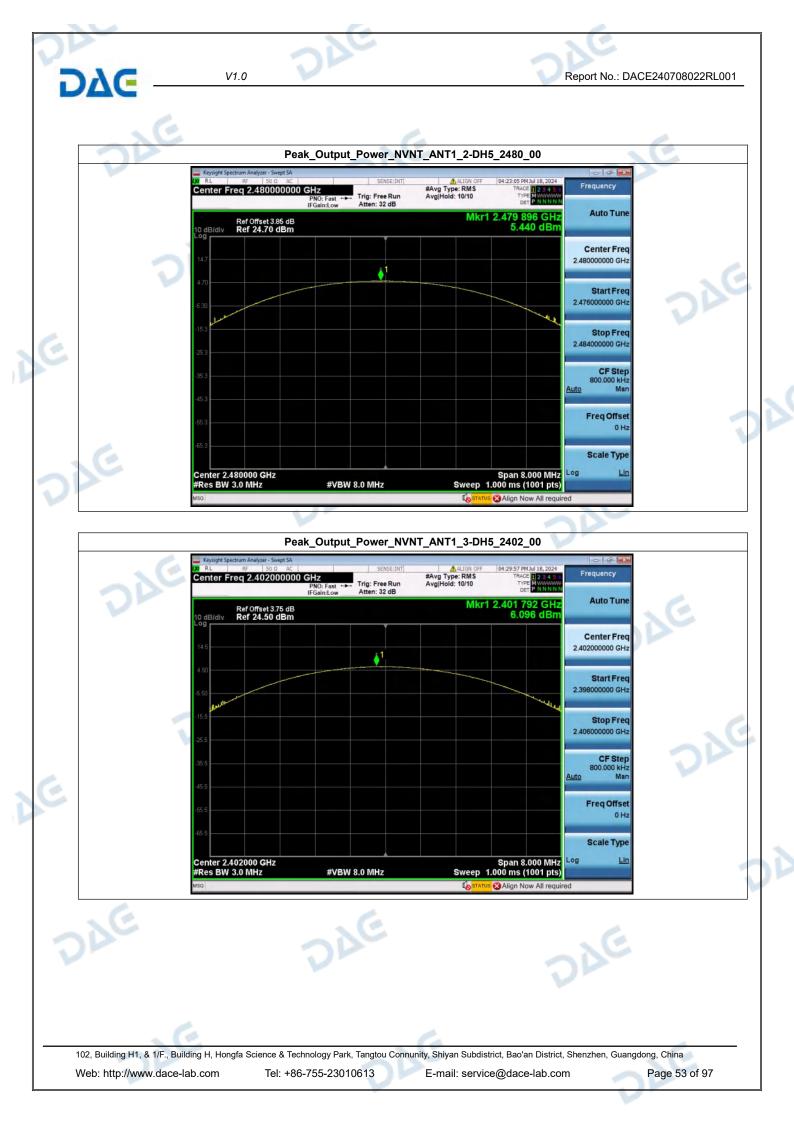
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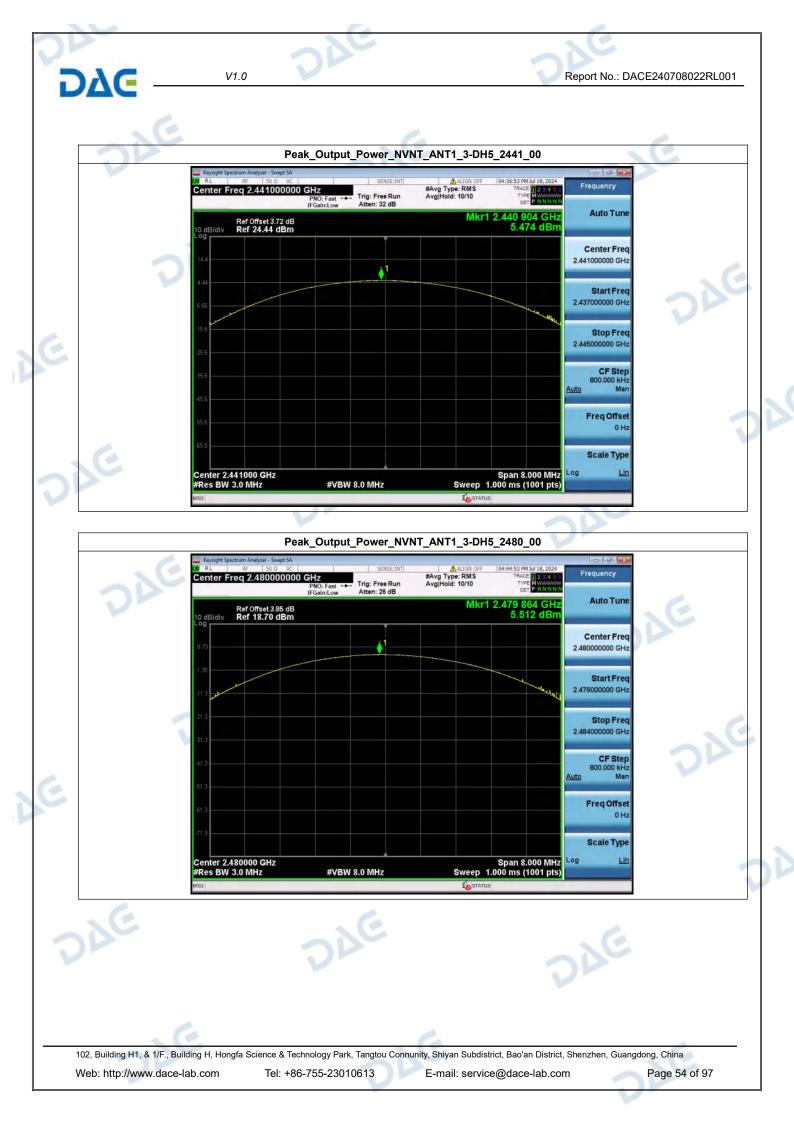
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#### Report No.: DACE240708022RL001

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### 4. Spurious Emissions

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Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-33.408	-16.505	Pass
NVNT	ANT1	1-DH5	2441.00	-33.662	-16.792	Pass
NVNT	ANT1	1-DH5	2480.00	-34.456	-17.194	Pass
NVNT	ANT1	2-DH5	2402.00	-51.463	-18.012	Pass
NVNT	ANT1	2-DH5	2441.00	-34.307	-18.085	Pass
NVNT	ANT1	2-DH5	2480.00	-36.082	-18.317	Pass
NVNT	ANT1	3-DH5	2402.00	-34.087	-18.057	Pass
NVNT	ANT1	3-DH5	2441.00	-35.164	-18.579	Pass
NVNT	ANT1	3-DH5	2480.00	-36.568	-18.711	Pass





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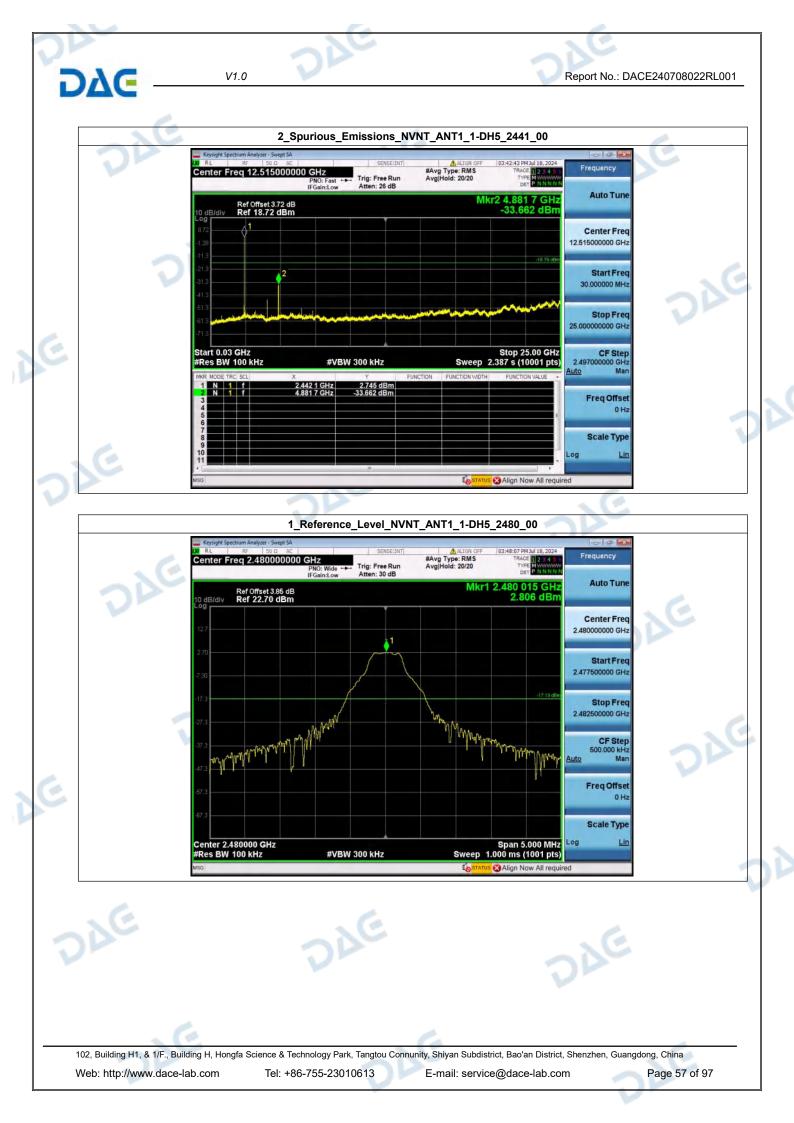
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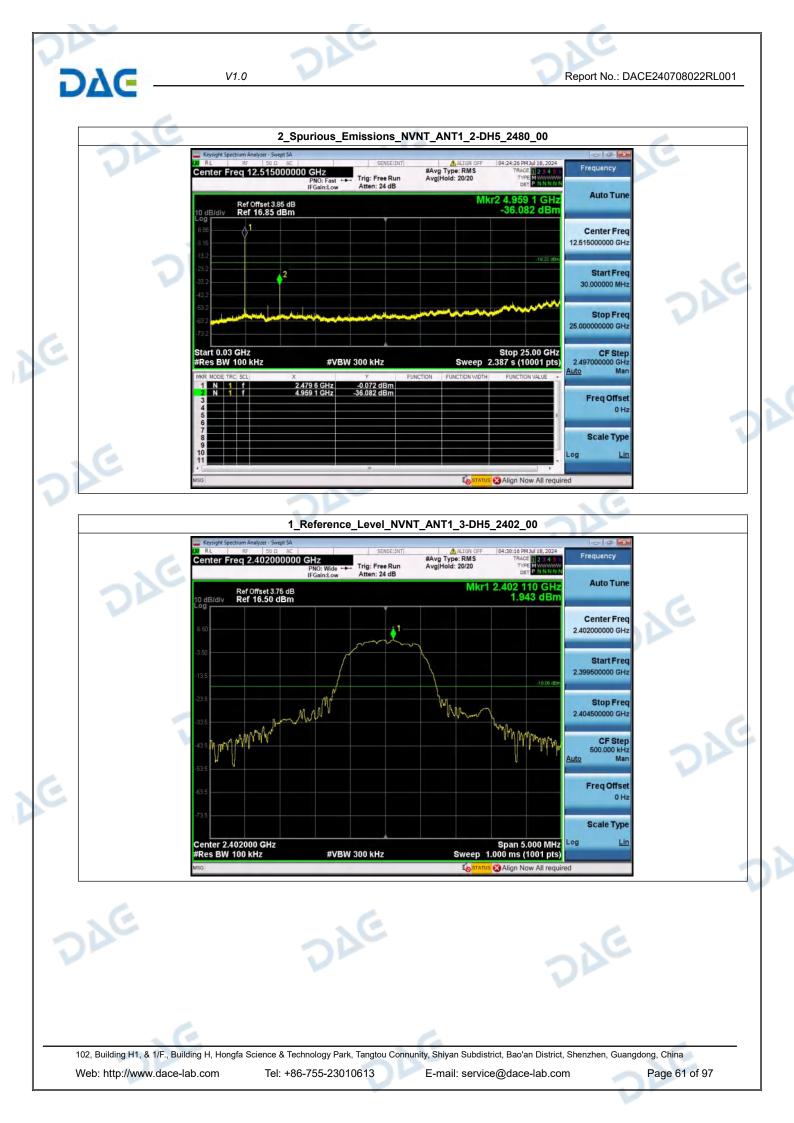




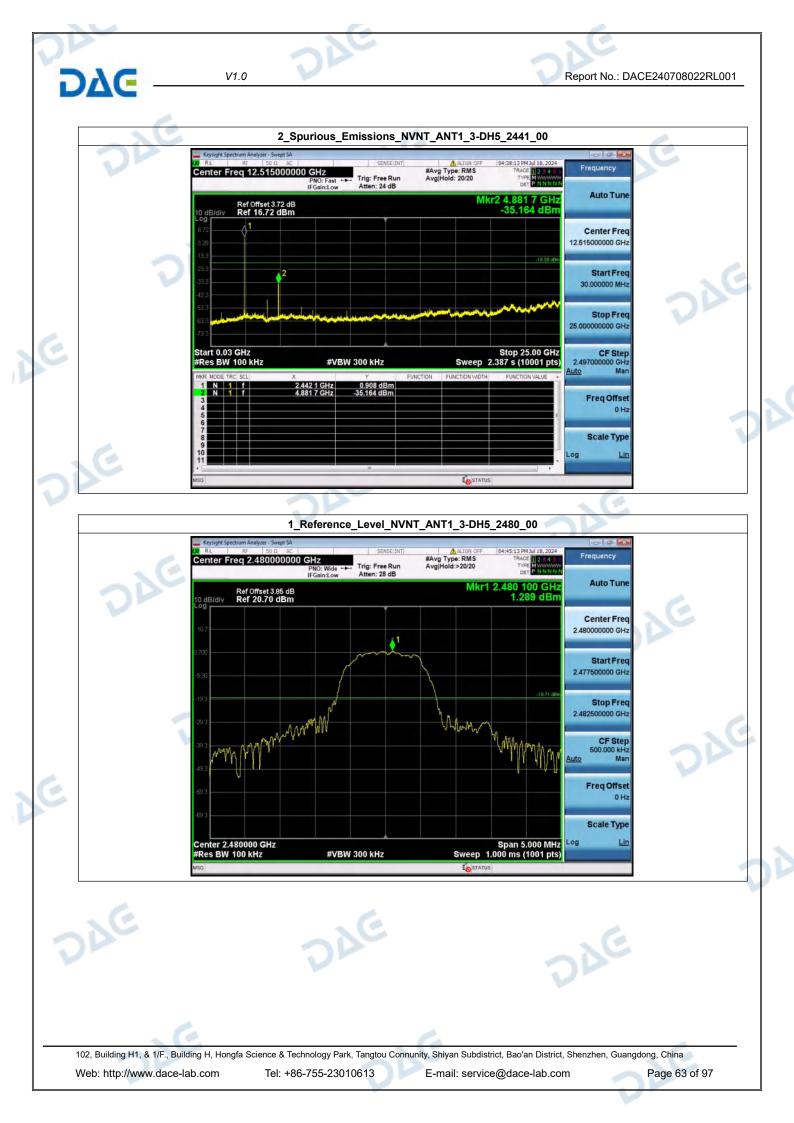












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- JAG	2_ Keysight Spectrum Analyzer - Swept	_Spurious_Emissions_NVI	NT_ANT1_3-DH5_2480_0	00	E
V	Center Freq 12.51500 Ref Offset 3.85	DNO: Fast	Auton off 1944615 PMJau #Avg Type: RMS AvglHold: 20/20 Type M Mkr2 4.959 20 560	CHZ Auto Tune	
	10 dB/dlv Ref 16.85 dB		-36.568	Center Freq 12.515000000 GHz	
2	-33.2 -33.2 -43.2			10 71 000 Start Freq 30.000000 MHz	
	-53.2 -63.2			Stop Freq 25.00000000 GHz	
	Start 0.03 GHz #Res BW 100 kHz MKR MODE TRC SCL 1 N 1 f	2.479 6 GHz 0.690 dBm	Stop 25.0 Sweep 2.387 s (1000 CTION FUNCTION WIDTH FUNCTION VA	1 pts) 2.497000000 GHz	
	2 N 1 f 3 4 5 6 7 7 8 9	4.959 1 GHz -36.568 dBm		Freq Offset 0 Hz Scale Type	
SE	9 10 11 *	m	<b>I</b> STATUS	Log Lin	
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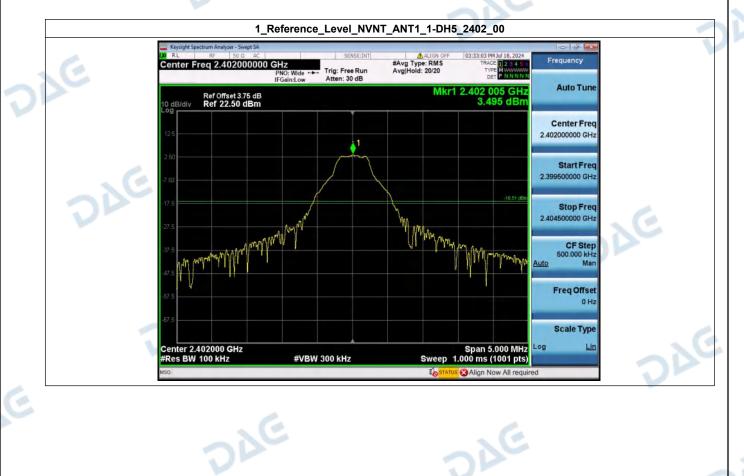
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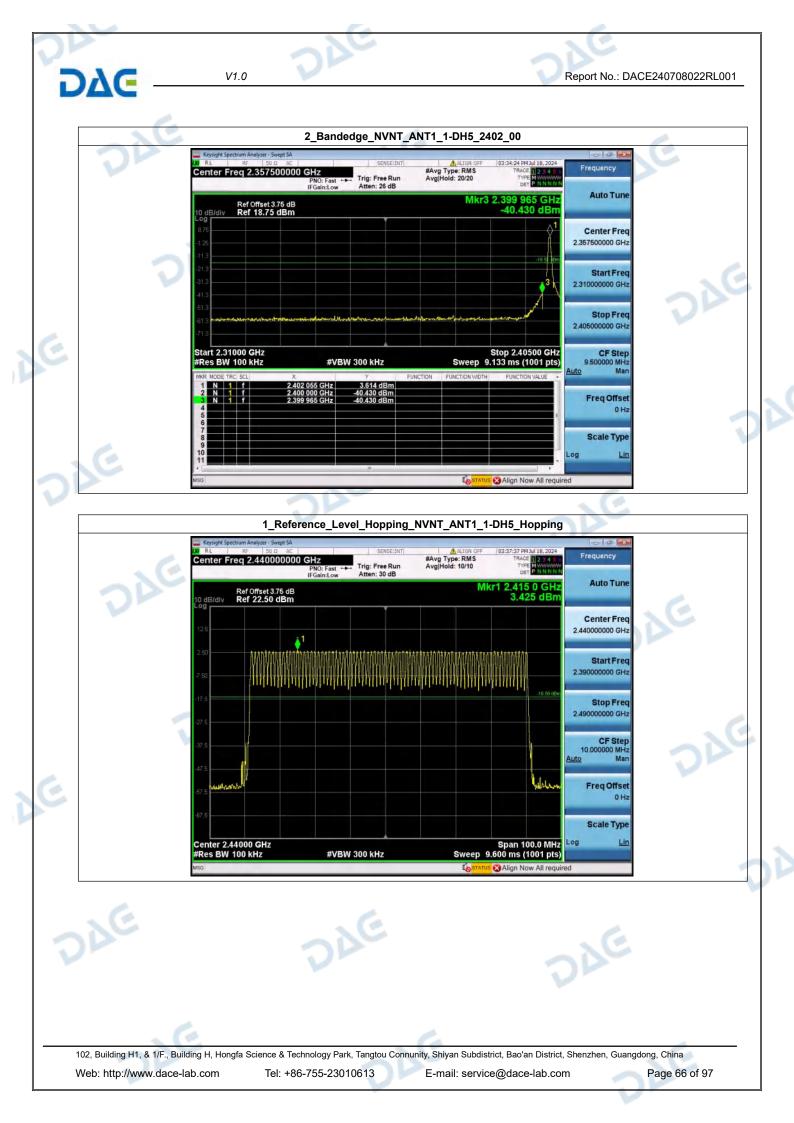
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-40.430	-16.505	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-50.080	-16.575	Pass
NVNT	ANT1	1-DH5	2480.00	-46.050	-17.194	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-48.688	-16.279	Pass
NVNT	ANT1	2-DH5	2402.00	-63.680	-18.012	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-49.171	-17.823	Pass
NVNT	ANT1	2-DH5	2480.00	-46.699	-18.317	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-51.361	-17.728	Pass
NVNT	ANT1	3-DH5	2402.00	-38.994	-18.057	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-45.469	-17.614	Pass
NVNT	ANT1	3-DH5	2480.00	-46.371	-18.711	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-47.782	-17.901	Pass

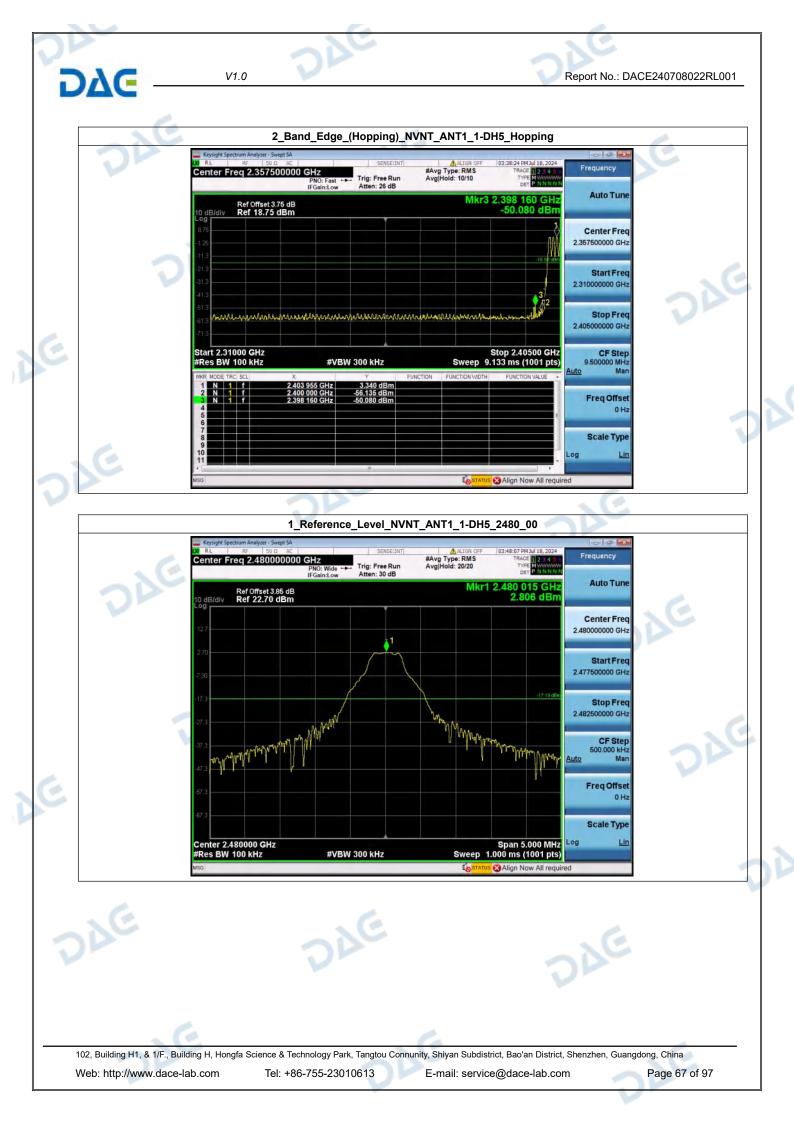


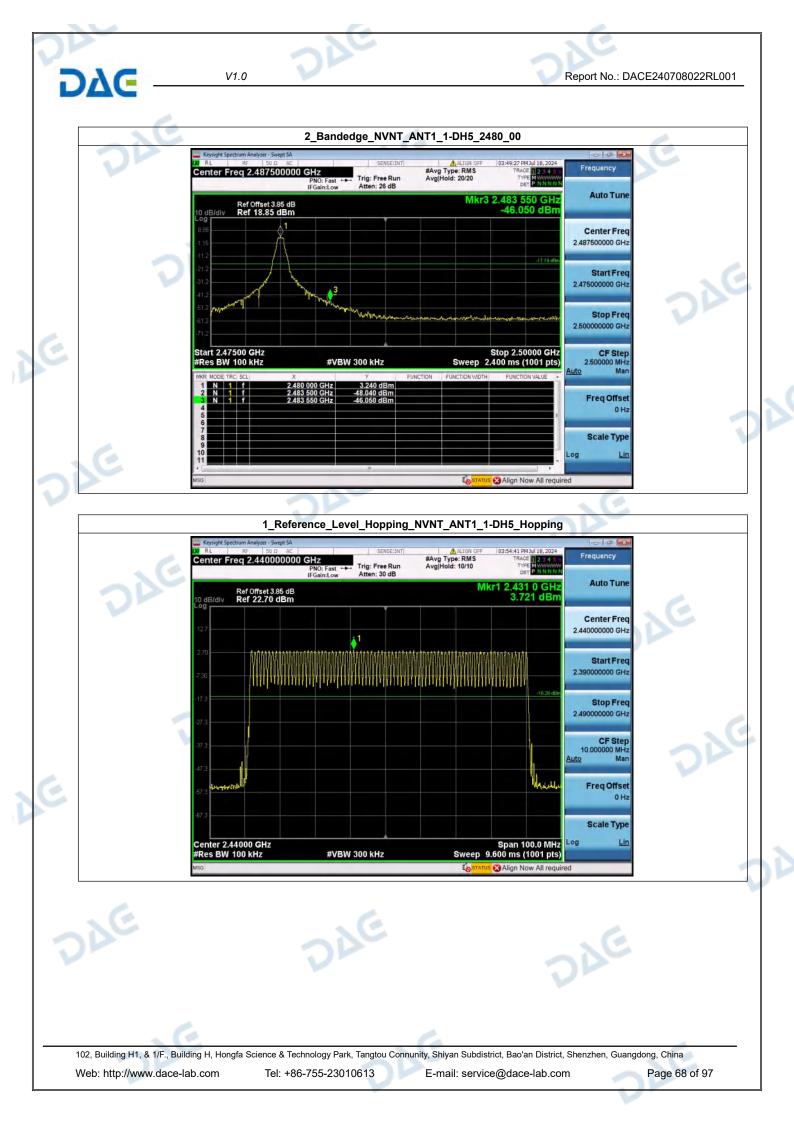
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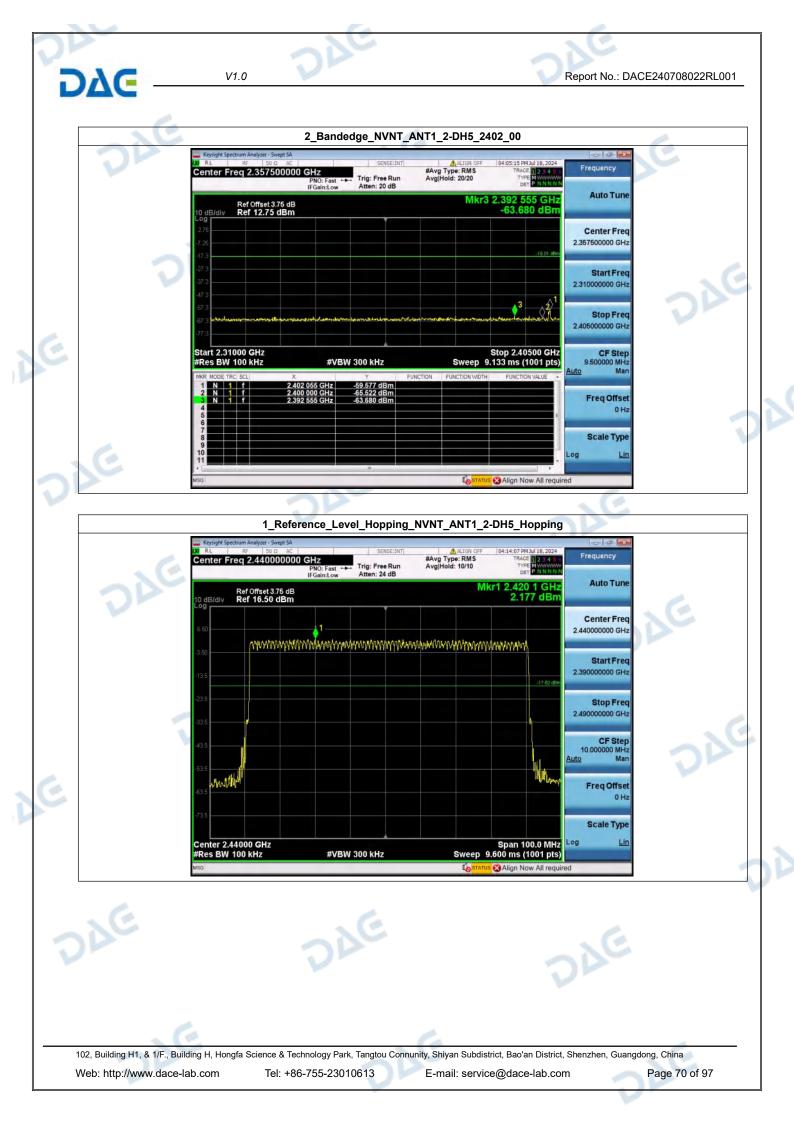
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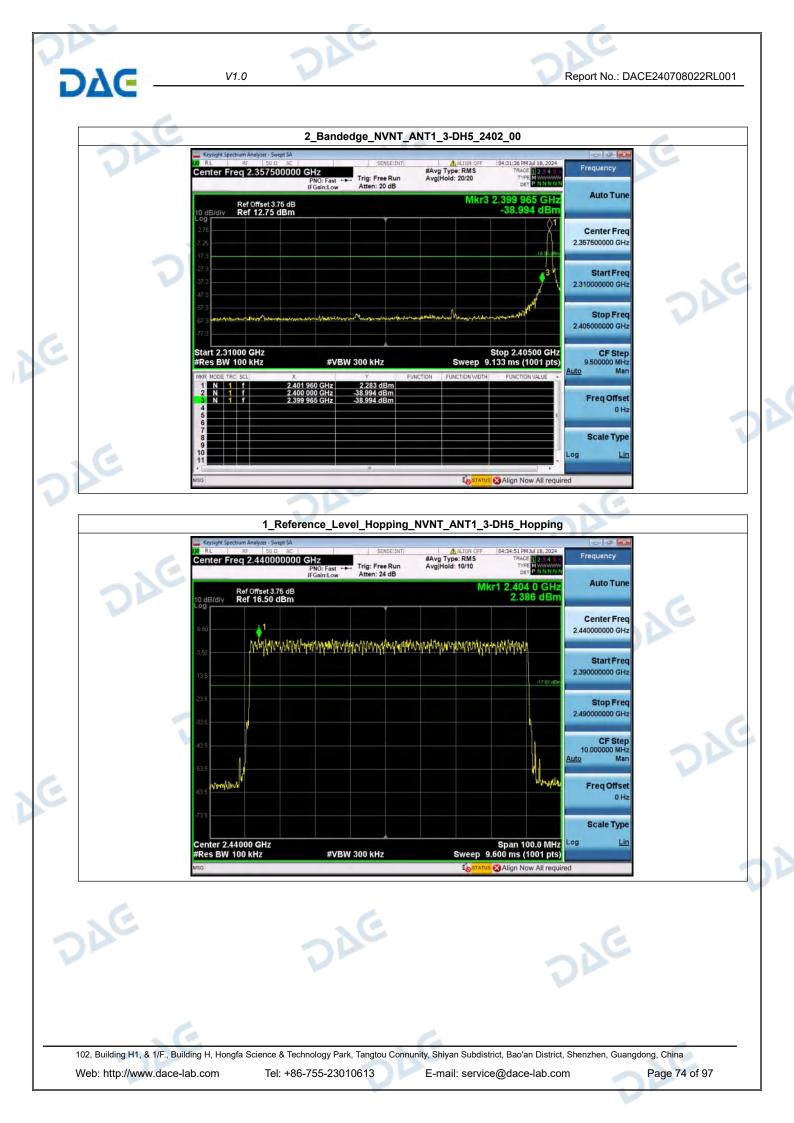
















	Keysight Spectrum Analyzer - Sv			- 0 🗴	LE.
V	Center Freg 2.4875	D00000 GHz PNO: Fast IFGain:Low Atten: 24 dB	n Avg Hold: 10/10 Mkr3 2.4	15:0:4 PMJul 18, 2024     Frequency       TRACE 12:3:4:1     Frequency       TYPE MANNANA     Auto Tune       18:4:000 GHz     Auto Tune	
	Ref Offset 3 10 dB/div Ref 16.85 Log 6.65 -3.15 (Lynn-ynhorden, antur	dBm		47.782 dBm Center Freq 2.487500000 GHz	
1	-13.2 -23.2 -33.2	lat.		-17.50 abc Start Freq 2.475000000 GHz	
	-43,2 -53,2 -63,2	and with the working arriver	my water and the particular of the second second		DAG
E	-73.2 Start 2.47500 GHz #Res BW 100 kHz	#VBW 300 kHz	Sto Sweep 2.40	p 2.50000 GHz D ms (1001 pts) 2.500000 MHz	
	MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f	X Y 2.477 975 GHz 1.705 dBm 2.483 500 GHz -59.640 dBm 2.484 000 GHz -47.782 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
	4 5 6 7 8 8			e 0 Hz Scale Type	
SIE	10 11 •			Log Lin	
VE		DA		DAC	<u>.</u>

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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	2402.059	2403.064	1.00	0.685	Pass
NVNT	ANT1	1-DH5	2441.00	2441.008	2442.001	0.99	0.688	Pass
NVNT	ANT1	1-DH5	2480.00	2479.059	2480.046	0.99	0.686	Pass
NVNT	ANT1	2-DH5	2402.00	2402.041	2403.025	0.98	0.913	Pass
NVNT	ANT1	2-DH5	2441.00	2441.047	2442.058	1.01	0.914	Pass
NVNT	ANT1	2-DH5	2480.00	2479.032	2480.028	1.00	0.913	Pass
NVNT	ANT1	3-DH5	2402.00	2402.101	2403.100	1.00	0.901	Pass
NVNT	ANT1	3-DH5	2441.00	2441.098	2442.097	1.00	0.902	Pass
NVNT	ANT1	3-DH5	2480.00	2479.095	2480.100	1.00	0.901	Pass

## 6. Carrier Frequencies Separation (Hopping)



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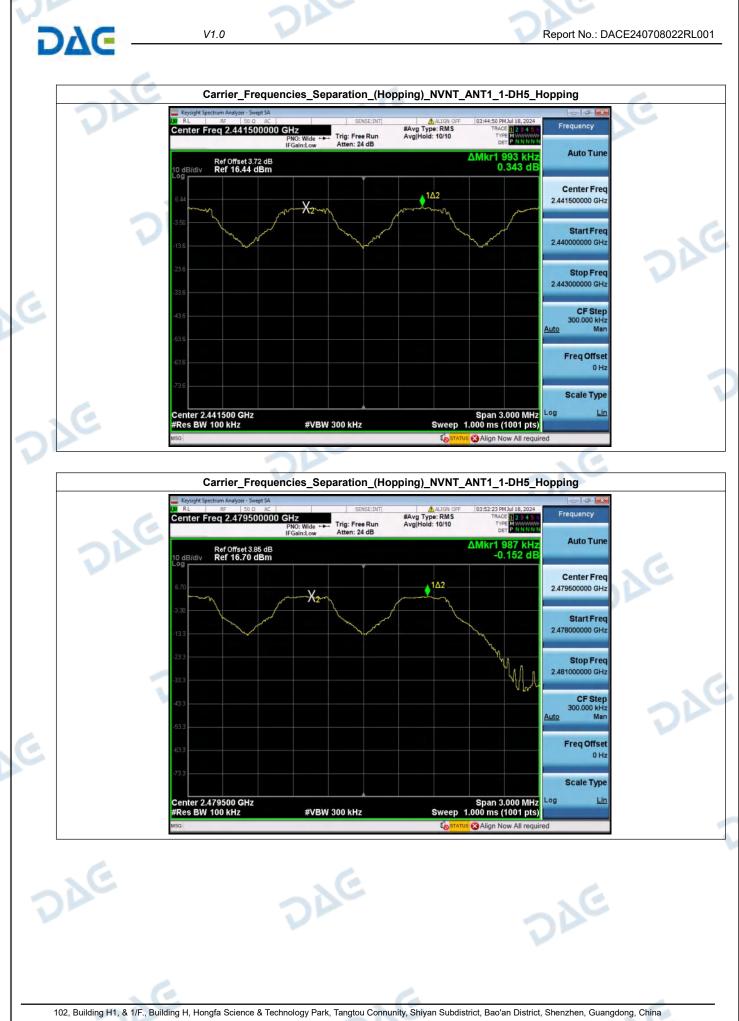
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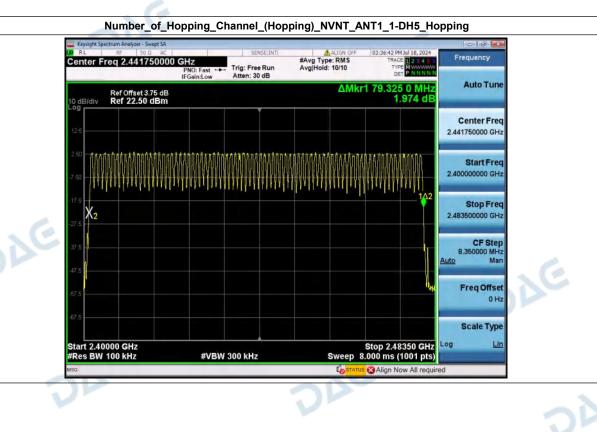
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# 7. Number of Hopping Channel (Hopping)

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
NVNT	ANT1	3-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass



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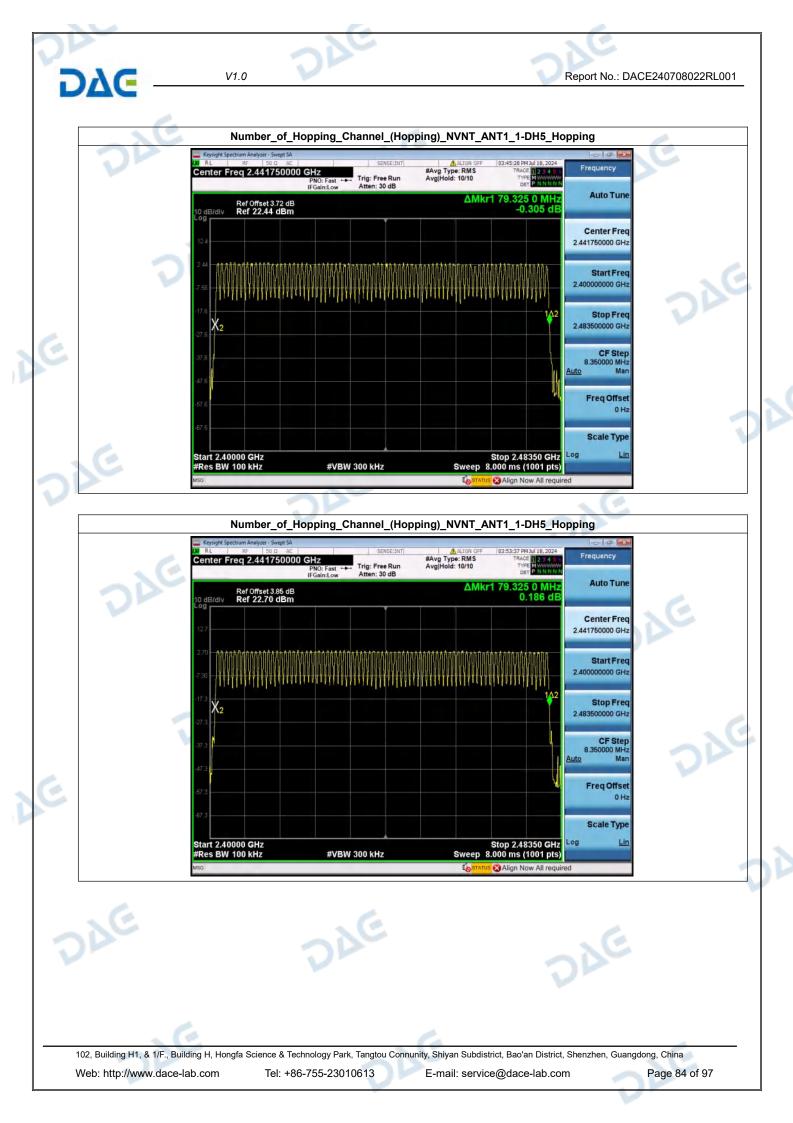
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com

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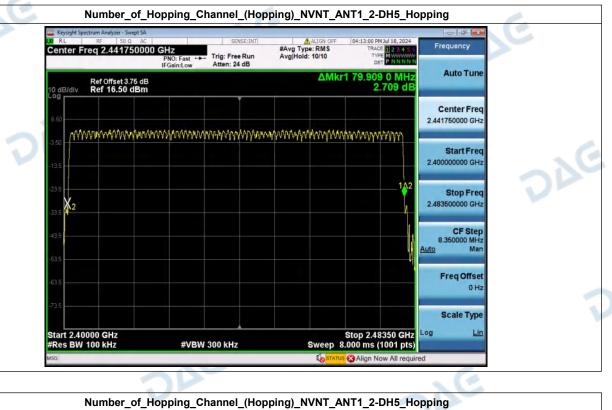


#### Report No.: DACE240708022RL001

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DAC

4





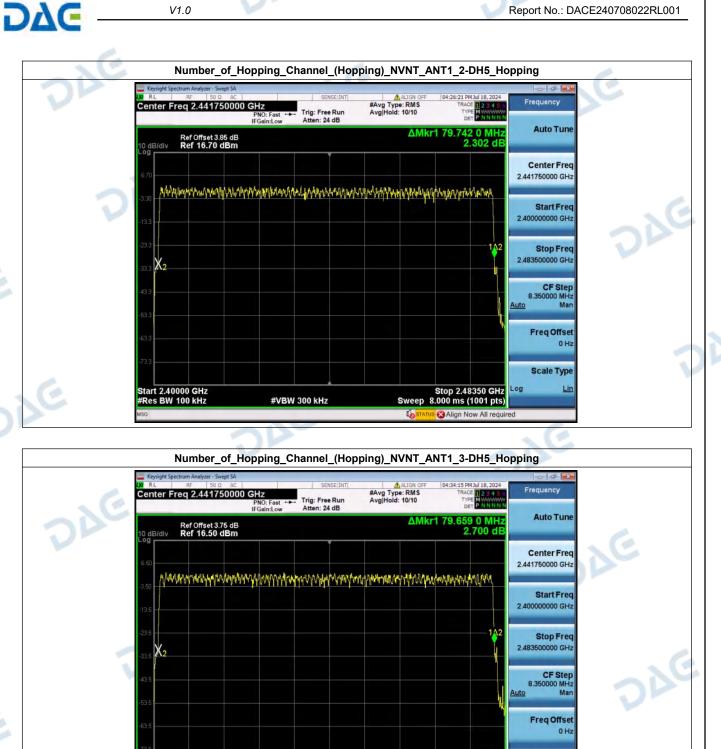
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#### Report No.: DACE240708022RL001

V1	0	



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#VBW 300 kHz

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Tel: +86-755-23010613

Web: http://www.dace-lab.com

Start 2.40000 GHz #Res BW 100 kHz

4

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E-mail: service@dace-lab.com

Stop 2.48350 GHz Sweep 8.000 ms (1001 pts)

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Scale Type

Lir

Log

DAG

### Report No.: DACE240708022RL001 V1.0 Number\_of\_Hopping\_Channel\_(Hopping)\_NVNT\_ANT1\_3-DH5\_Hopping #Avg Type: RMS Avg|Hold: 10/10 Frequency r Freq 2.441750000 GHz Trig: Free Run Atten: 24 dB PNO: Fast IFGain:Low Auto Tune ΔMkr1 79. Ref Offset 3.72 dB

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-3.55	howayanan	19149 149 141 141 141 141		Start Freq	
-13.6				2.40000000 GHz	
-23.6 -33.6 <b>×2</b>			102	Stop Freq 2.483500000 GHz	
-43.6				CF Step 8.350000 MHz uto Man	
-63.6				Freq Offset 0 Hz	
-73.6				Scale Type	
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz		top 2.48350 GHz 00 ms (1001 pts)	og <u>Lin</u>	

	HZ PNO: Fast + Trig: Free Run IFGain:Low Atten: 24 dB	#Avg Type: RMS T	2 PM Jul 18, 2024 RACE 0 2 3 4 4 Frequency Type M Det P NNNNN	
Ref Offset 3.85 dB 10 dB/div Ref 16.70 dBm		ΔMkr1 79.6	59 0 MHz Auto Tune 1.592 dB	
6.70 Калилий Кирьлал	nyewayan	a an mananala.	Center Freq 2.441750000 GHz	DAG
	, 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 197	11101	Start Freq 2.40000000 GHz	
-23.3 -33.3 <b>X2</b>			102 2.483500000 GHz	
-43.3			CF Step 8.350000 MHz <u>Auto</u> Man	
63.3			Freq Offset	
			Scale Type	
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 2 Sweep 8.000 m	48350 GHz Log Lin	

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

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DAE

## 8. Dwell Time (Hopping)

DΔC

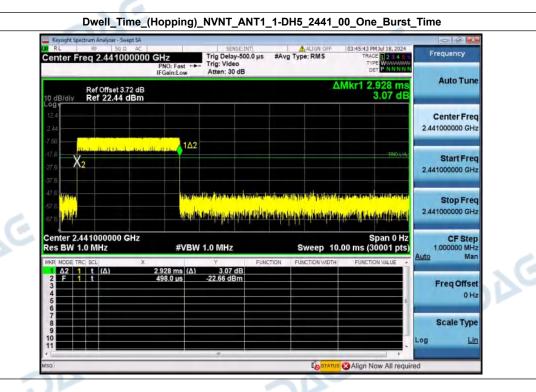
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Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.928	104.00	304.512	0.40	Pass
NVNT	ANT1	2-DH5	2.929	103.00	301.687	0.40	Pass
NVNT	ANT1	3-DH5	2.938	104.00	305.552	0.40	Pass
NVNT	ANT1	1-DH1	0.378	310.00	117.180	0.40	Pass
NVNT	ANT1	1-DH3	1.670	155.00	258.850	0.40	Pass
NVNT	ANT1	2-DH1	0.379	310.00	117.490	0.40	Pass
NVNT	ANT1	2-DH3	1.670	155.00	258.850	0.40	Pass
NVNT	ANT1	3-DH1	0.379	310.00	117.490	0.40	Pass
NVNT	ANT1	3-DH3	1.651	155.00	255.905	0.40	Pass

C



24C

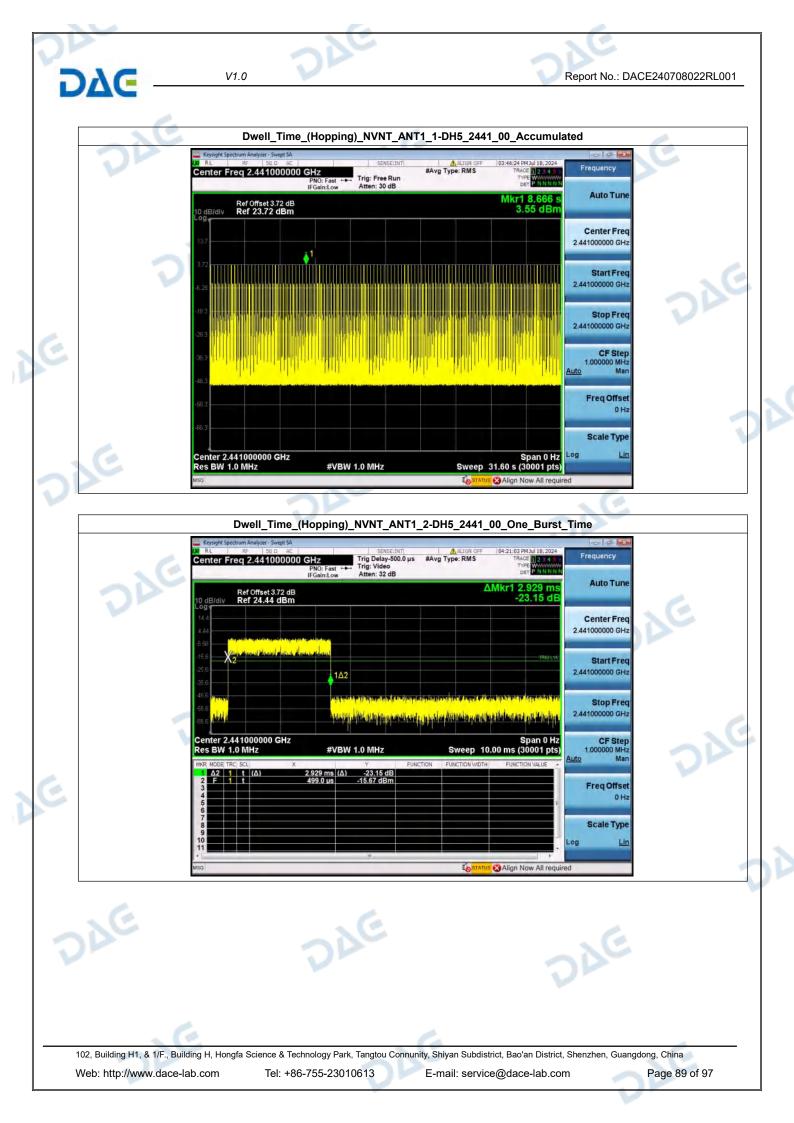
DAG

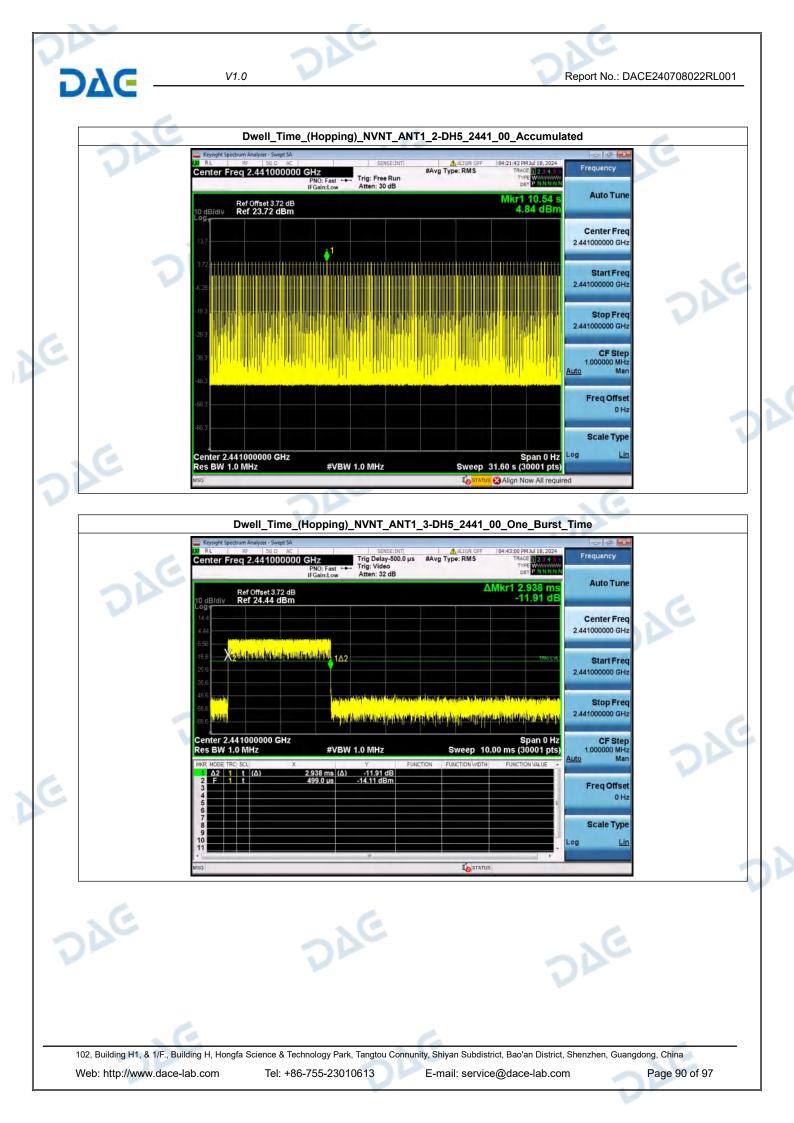
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com

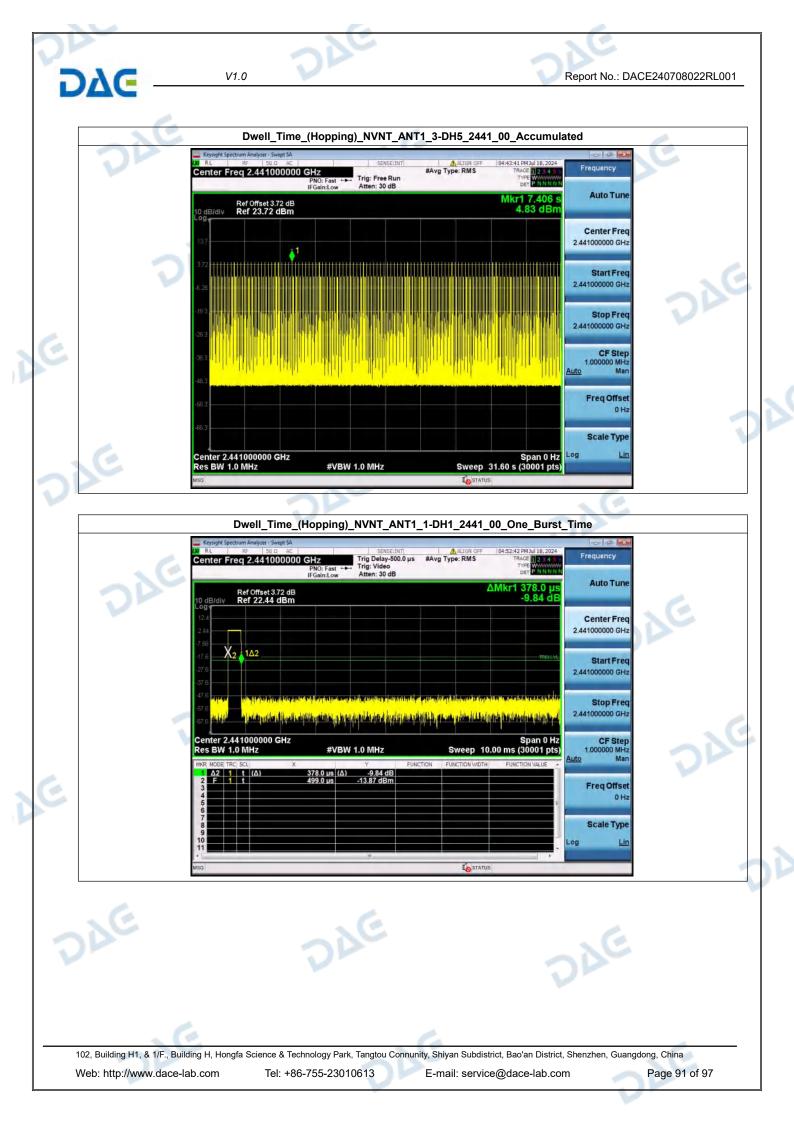
)AC

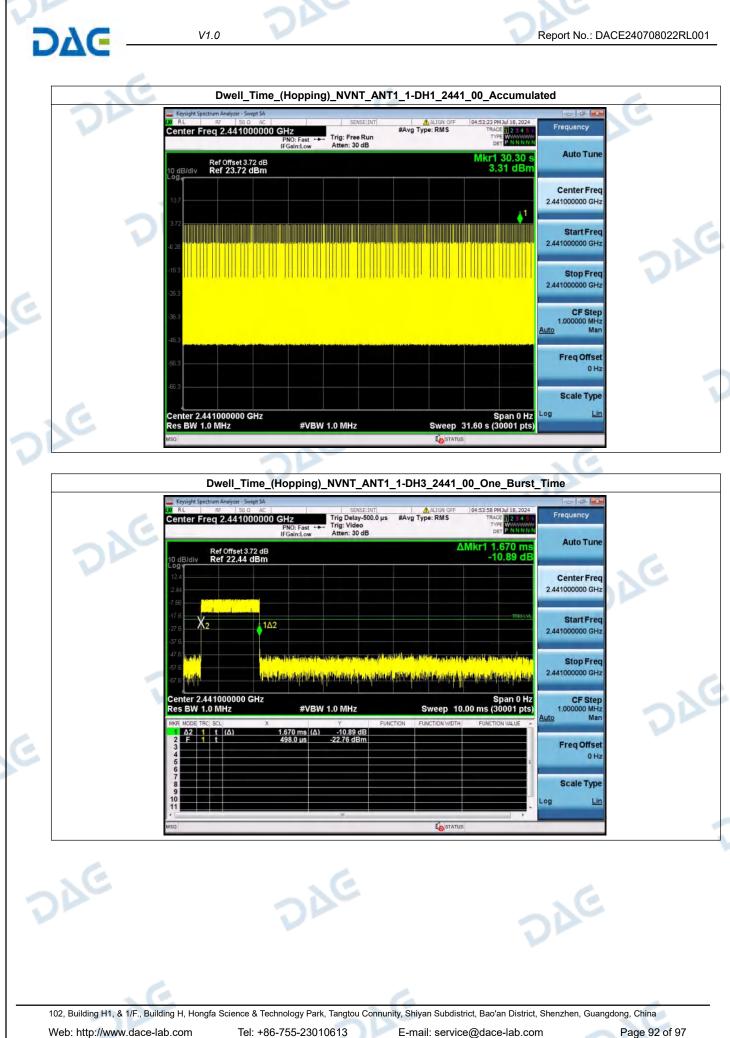
)De

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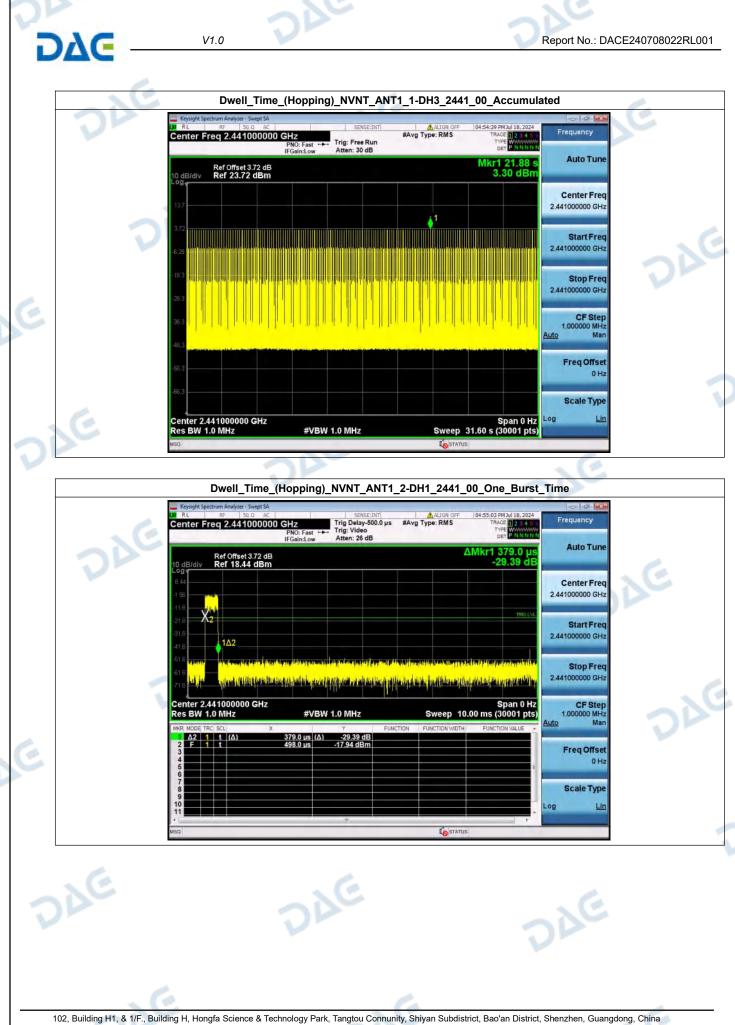






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