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4	V1.0		DAG	Report No.: DACE240515005RL001
	DAC	R	F TEST REPOR	DAG
			CHNOLOGY (SHENZHEN	
	V Pro	dι	uct Name: Wireless Earph	ione 🤇 🥑
			Test Model(s).: BX19	
C				
	Report Reference No.		DACE240515005RL001	
	FCC ID	:	2ATU8-X19	
		•		
-	Applicant's Name	:	BESING TECHNOLOGY (SHENZHEN) C	CO., LTD
V	Address	:	2F, Block 1, Tianxin Resident Group Indus Community, Shiyan Street, Baoan District	
	Testing Laboratory	:	Shenzhen DACE Testing Technology Co.	, Ltd.
	Address	:	102 Building H1 & 1/F., Building H, Hongf Tangtou, Shiyan, Bao' an District, Shenz	
	Test Specification Standard	:	47 CFR Part 15.247	
	DAC			
	Date of Receipt	:	May 15, 2024 May 15, 2024 to May 18, 2024	
C	Date of Issue	•	May 15, 2024 to May 16, 2024 May 18, 2024	
	Result	1	Pass	
1	Testing Technology Co., Ltd. Th	is d all I	duced except in full, without the written app ocument may be altered or revised by Sher be noted in the revision section of the docur ble	nzhen DACE Testing Technology
	.C.		6	

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Report No.: DACE240515005RL001

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Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE240515005RL001	May 18, 2024
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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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Compiled by: Ben Tang

Ben Tang /Test Engineer

Tomchen Tom Chen / Project Engineer

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Supervised by:

Approved by:

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Machael MJ

Machael Mo / Manager

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Page 2 of 95

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CONTENTS

V1.0	Report No.: DACE240515005RL
C C	ONTENTS
240	
TEST SUMMARY	
2.3 DESCRIPTION OF TEST MODES	
	ERTAINTY
	(
2.8 ANNOUNCEMENT	
EVALUATION RESULTS (EVALUATION)	
	\$ (RF)
	E
4.1.1 E.U.T. Operation:	
	<u>.</u>
•	
4.4 CHANNEL SEPARATION	
4.4.1 E.U.T. Operation:	
4.4.3 Test Data:	
4.5.2 Test Setup Diagram:	
	<u></u>
·	
	CY BANDS
	CT BANDS
4.7.2 Test Setup Diagram	

V	1	0

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Report No.: DACE240515005RL001

DAG

DAG

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4.8.2 Test Setup Diagram:	23
4.8.3 Test Data:	
4.9 EMISSIONS IN FREQUENCY BANDS (BELOW 1GHZ)	
4.9.1 E.U.T. Operation:	
4.9.2 Test Data:	
4.10 EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHZ)	
4.10.1 E.U.T. Operation:	
4.10.2 Test Data:	
5 TEST SETUP PHOTOS	38
6 PHOTOS OF THE EUT	40
APPENDIX	54
120DB BANDWIDTH	
2. 99% Occupied Bandwidth	
3. PEAK OUTPUT POWER	63
4. Spurious Emissions	
6. CARRIER FREQUENCIES SEPARATION (HOPPING)	
7. NUMBER OF HOPPING CHANNEL (HOPPING)	
8. DWELL TIME (HOPPING)	90
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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 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

E-mail: service@dace-lab.com

Di	V1.0	V	Report No.: DACE240515005RL001
2	GENERAL INI	FORMATION	
2.1	Client Information	DAC	
	Applicant's Name	: BESING TECHNOLOGY (SHENZHEN) CO., LTD
	Address	: 2F, Block 1, Tianxin Resident Group Ind Shiyan Street, Baoan District, Shenzhe	
	Manufacturer	: BESING TECHNOLOGY (SHENZHEN) CO., LTD
	Address	: 2F, Block 1, Tianxin Resident Group Ind Shiyan Street, Baoan District, Shenzhe	
2.2	Description of Dev	vice (EUT)	
	Product Name:	Wireless Earphone	XC
	Model/Type reference:	BX19	
	Series Model:	N/A	

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)						

DC 5V/1A from adapter Battery:DC3.7V 40mA

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2402MHz to 2480MHz

Chip antenna

1.8dBi V1.0

GFSK, $\pi/4$ DQPSK, 8DPSK

Trade Mark:

Power Supply:

Operation Frequency:

Number of Channels:

Modulation Type: Antenna Type:

Hardware Version:

Antenna Gain:

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
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz

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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:

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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	BDR/EDR
Lowest channel	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

2.3 Description of Test Modes

V1.0

-	-	6				
No	Title	Description				
TM1	TX-GFSK (Non- Hopping)					
TM2	TX-Pi/4DQPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation.				
ТМ3	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.				
TM4	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.				
Remar	k:Only the data of the worst	mode would be recorded in this report.				

2.4 Description of Support Units

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Title	Manufacturer	Model No.	Serial No.
AC-DC adapter	HUAWEI TECHNOLOGY	HW100400C01	22

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 Page 7 of 95

2.5 Equipments Used During The Test

Conducted Emission a	Conducted Emission at AC power line								
Equipment Manufacture		Model No	Inventory No	Cal Date	Cal Due Date				
Power absorbing clamp	e e		/	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	2023-06-13	2024-06-12				
L.I.S.N R&S		ESH3-Z5	831.5518.52	2023-12-12	2024-12-11				
EMI test software	EZ -EMC	EZ	V1.1.42	1	/				

Occupied Bandwidth **Maximum Conducted Output Power Channel Separation** Number of Hopping Frequencies

Dwell Time

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Emissions in non-restricted frequency bands

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

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Report No.: DACE240515005RL001

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Emissions in frequence	· · · ·		lassa mén me Alin	Cal Data	Col Duc Dot	
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/	
Positioning Controller	S 1	MF-7802	C 1	/	1	
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1		
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04	
Horn antenna	Horn antenna COM-POWER		10100008	2023-04-05	2025-04-04	
Loop antenna ZHINAN		ZN30900C	ZN30900C	2021-07-05	2024-07-04	
Cable(LF)#2	Schwarzbeck	/		2024-02-19	2025-02-18	
Cable(LF)#1 Schwarzbeck		/		2024-02-19	2025-02-18	
Cable(HF)#2	Cable(HF)#2 Schwarzbeck		96250	2024-03-20	2025-03-19	
Cable(HF)#1	Cable(HF)#1 Schwarzbeck		/	2024-03-20	2025-03-19	
Power amplifier(LF) Schwarzbeck		BBV9743	9743-151	2023-06-13	2024-06-12	
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12	
Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12	
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2023-06-14	2024-06-13	
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12	
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20	
Test Receiver	R&S	ESCI	102109	2023-06-13	2024-06-12	
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Page 9 of 95

Statement Of The Measurement Uncertainty 2.6

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Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
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 upcontainty represents on even and	up containty averaged at an province taby the OEO/

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.				
A dalar a s	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,				
Address:	Tangtou, Shiyan, Bao′ an District, Shenzhen, Guangdong, China				
Phone Number: +86-13267178997					
Fax Number:	86-755-29113252				
Identification of the Responsi	ible Testing Location				
Company Name:	Shenzhen DACE Testing Technology Co., Ltd.				
Addus sa	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,				
Address:	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 POCE and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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Report No.: DACE240515005RL001

Evaluation Results (Evaluation) 3

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.

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3.1.1 Conclusion:

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Report No.: DACE240515005RL001

Radio Spectrum Matter Test Results (RF) 4

4.1 Conducted Emission at AC power line

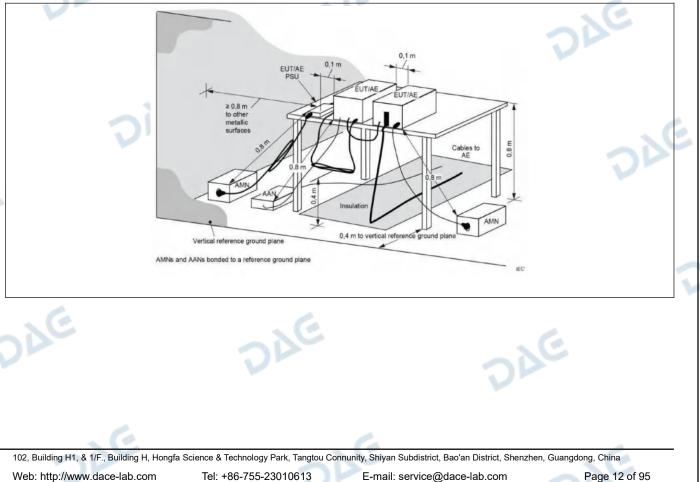
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).					
Test Limit:	Frequency of emission (MHz) Conducted limit (dBµV)					
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2013 section 6.2					
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					
4.1.1 E.U.T. Operation:	.e		4			

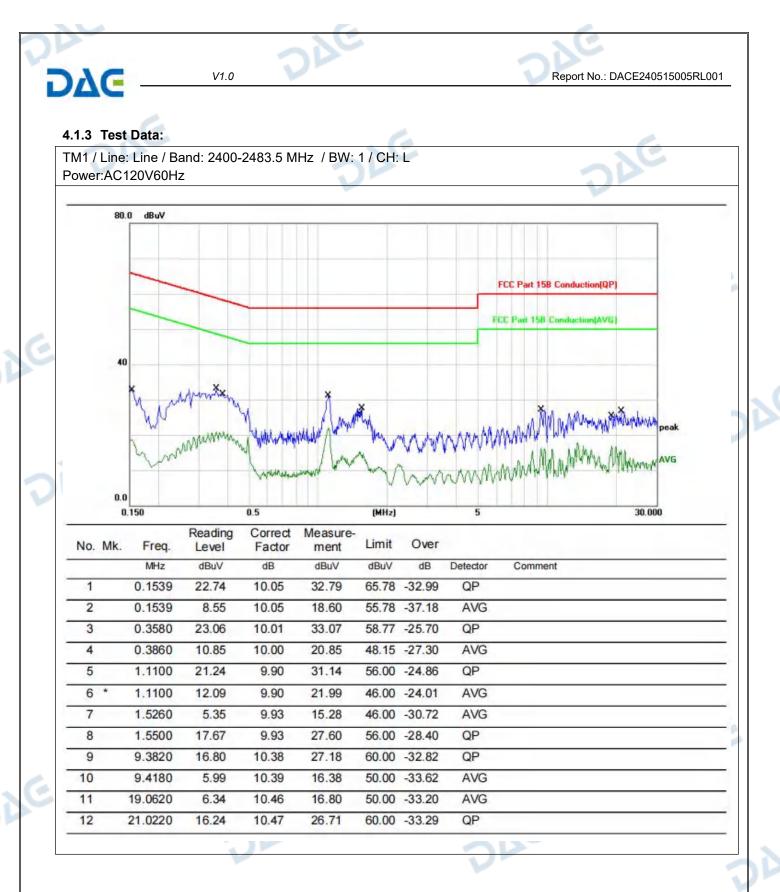
4.1.1 E.U.T. Operation:

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Operating Environment:						
Temperature: 23.4 °C			Humidity:	55.9 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM1,	TM2		V	
Final test mode:		TM1				

4.1.2 Test Setup Diagram:





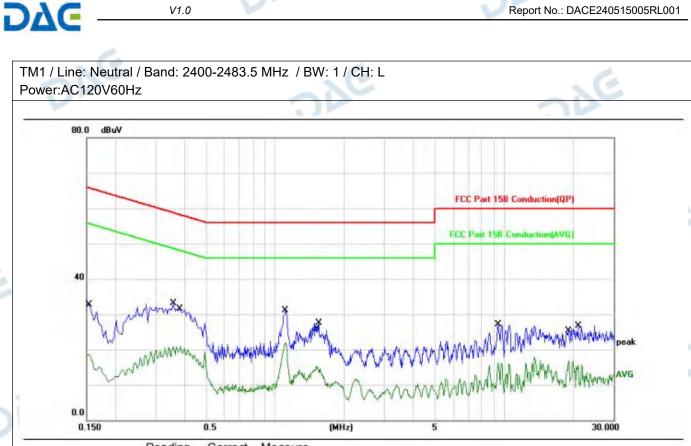
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com

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Page 13 of 95

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	-	0.1539	22.74	10.05	32.79	65.78	-32.99	QP		
2		0.1539	8.55	10.05	18.60	55.78	-37.18	AVG		
3		0.3580	23.06	10.01	33.07	58.77	-25.70	QP		
4		0.3860	10.85	10.00	20.85	48.15	-27.30	AVG		
5		1.1100	21.24	9.90	31.14	56.00	-24.86	QP		
6	*	1.1100	12.09	9.90	21.99	46.00	-24.01	AVG		
7	-	1.5260	5.35	9.93	15.28	46.00	-30.72	AVG		
8		1.5500	17.67	9.93	27.60	56.00	-28.40	QP		
9		9.3820	16.80	10.38	27.18	60.00	-32.82	QP		
10		9.4180	5.99	10.39	16.38	50.00	-33.62	AVG		
11		19.0620	6.34	10.46	16.80	50.00	-33.20	AVG		
12	-	21.0220	16.24	10.47	26.71	60.00	-33.29	QP		
-	_					-				

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Report No.: DACE240515005RL001

4.2 Occupied Bandwidth

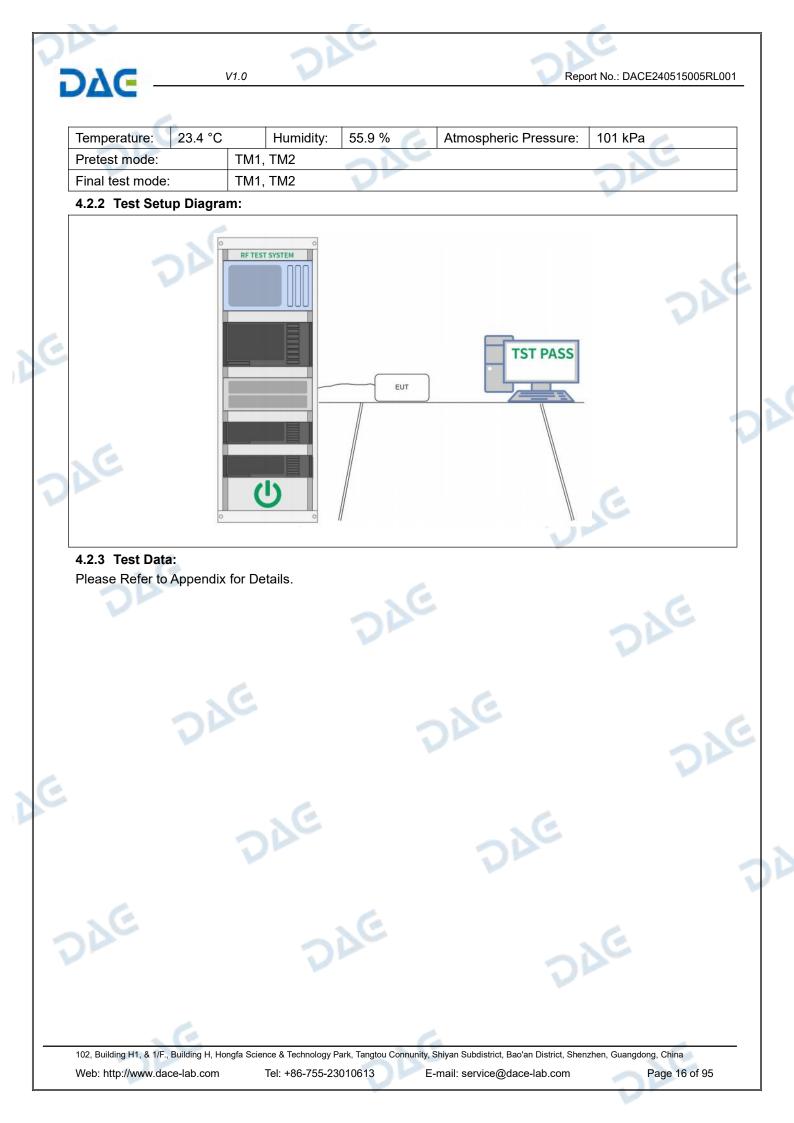
DAG

4.2 Occupied Band	iwidth	
Test Requirement:	47 CFR 15.215(c)	- 26
Test Limit:	Refer to 47 CFR 15.215(c), intentional radia 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 w	contained in §§ 15.217 through 15.257 ned to ensure that the 20 dB bandwidth y otherwise be specified in the specific trates, is contained within the frequency
Test Method:	ANSI C63.10-2013, section 7.8.7, For occu procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v	
Procedure:	 a) The spectrum analyzer center frequency center frequency. The span range for the Elbe between two times and five times the OEb) The nominal IF filter bandwidth (3 dB RB the OBW and video bandwidth (VBW) shall unless otherwise specified by the applicable c) Set the reference level of the instrument 	MI receiver or spectrum analyzer shall 3W. W) shall be in the range of 1% to 5% of be approximately three times RBW, a requirement. as required, keeping the signal from
	 exceeding the maximum input mixer level for of the spectral envelope shall be more than reference level. Specific guidance is given i d) Steps a) through c) might require iteration tolerances. e) The dynamic range of the instrument at t dB below the target "-xx dB down" requirement at t dB below the target 30 dB OBW, the instrument be at least 30 dB below the 	[10 log (OBW/RBW)] below the n 4.1.5.2. n to adjust within the specified he selected RBW shall be more than 10 nent; that is, if the requirement calls for
	reference value. f) Set detection mode to peak and trace mo g) Determine the reference value: Set the E or modulated signal, as applicable. Allow th analyzer marker to the highest level of the o value). h) Determine the "-xx dB down amplitude" Alternatively, this calculation may be made	UT to transmit an unmodulated carrier e trace to stabilize. Set the spectrum lisplayed trace (this is the reference using [(reference value) – xx].
	 instrument. i) If the reference value is determined by an modulation ON, and either clear the existing spectrum analyzer and allow the new trace step g) shall be used for step j). 	unmodulated carrier, then turn the EUT g trace or start a new trace on the
	j) Place two markers, one at the lowest freq frequency of the envelope of the spectral di slightly below the "-xx dB down amplitude" of below this "-xx dB down amplitude" value, this this value. The occupied bandwidth is the fr markers. Alternatively, set a marker at the lo spectral display, such that the marker is at of amplitude" determined in step h). Reset the	splay, such that each marker is at or determined in step h). If a marker is hen it shall be as close as possible to equency difference between the two owest frequency of the envelope of the or slightly below the "-xx dB down
AE	marker to the other side of the emission unt same level as the reference marker amplitu at this point is the specified emission bandw k) The occupied bandwidth shall be reporte instrument display; the plot axes and the so labeled. Tabular data may be reported in ad	il the delta marker amplitude is at the de. The marker-delta frequency reading <i>v</i> idth. d by providing plot(s) of the measuring ale units per division shall be clearly
4.2.1 E.U.T. Operation:		
Operating Environment:		
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Page 17 of 95

4.3 Maximum Conducted Output Power 6

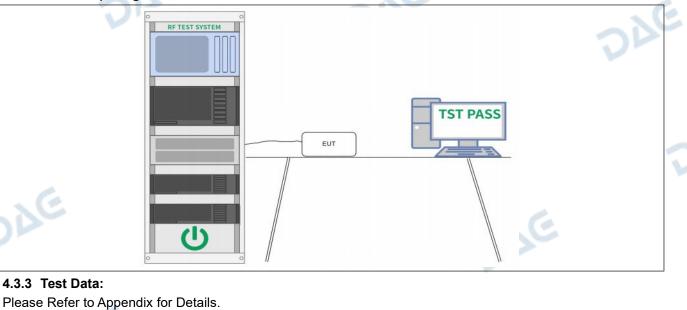
Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW.
de de	 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.
4.3.1 E.U.T. Operation:	IE E

4.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.4 °C		Humidity:	55.9 %	Atmospheric Pressure:	101 kPa		
Pretest mode: TM			TM2	•				
Final test mode: TM1, TM2			TM2					
4.3.2 Test Setup Diagram:								

4.3.2 Test Setup Diagram:

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4.4 Channel Separation

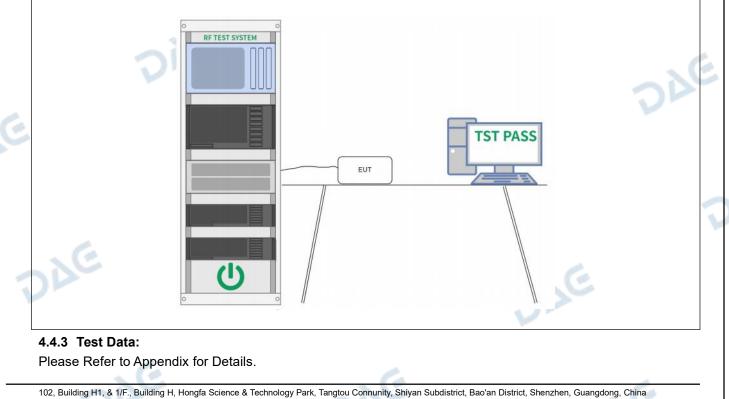
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Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. 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:	 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.
1e	 d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Environment:							
Temperature: 23.4 °C		Humidity:	55.9 %	-	Atmospheric Pressure:	101 kPa	
Pretest mode:	ТМЗ,	TM4		C		. (.	
Final test mode:	ТМЗ,	TM4	NC			200	

4.4.2 Test Setup Diagram:



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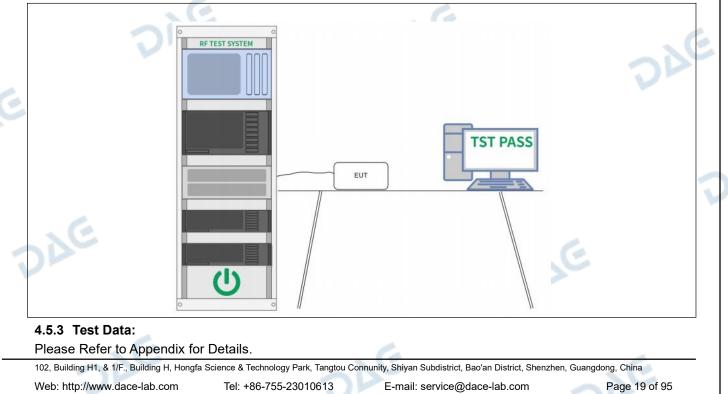
Report No.: DACE240515005RL001

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.
AC	 d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

4.5.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.4 °C	_	Humidity:	55.9 %		Atmospheric Pressure:	101 kPa	C
Pretest mode: TM3,		TM4	V			22		
Final test mode: TM3, T		TM4						

4.5.2 Test Setup Diagram:



Report No.: DACE240515005RL001

4.6 Dwell Time

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4.6 Dweil Time	
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight
AE	 adjustment to brevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.
DAE	Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) =
20	(number of hops on spectrum analyzer) × (period specified in the requirements) – (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with the
	values described in the operational description for the EUT.

4.6.1 E.U.T. Operation:

Operating Envir	ronment:				26-		
Temperature:	23.4 °C		Humidity:	55.9 %	Atmospheric Pressure:	101 kPa	
Pretest mode:	Pretest mode: TM3, TM4						
Final test mode	Final test mode: TM3, TM4			6			
4.6.2 Test Setup Diagram:					. C		

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4.6.3 Test Data: Please Refer to Ap	pendix for Details.	DIE	
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Report No.: DACE240515005RL001

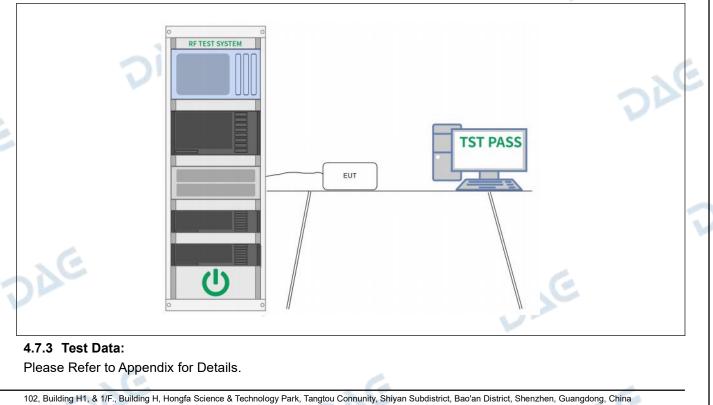
4.7 Emissions in non-restricted frequency bands

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:	23.4 °C		Humidity:	55.9 %	-	Atmospheric Pressure:	101 kPa	
Pretest mode: TM1			TM2, TM3, T	rm4	C		. 6	
Final test mode: TM1			TM2, TM3, T	rm4				

4.7.2 Test Setup Diagram:



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4.8 Band edge emissions (Radiated)

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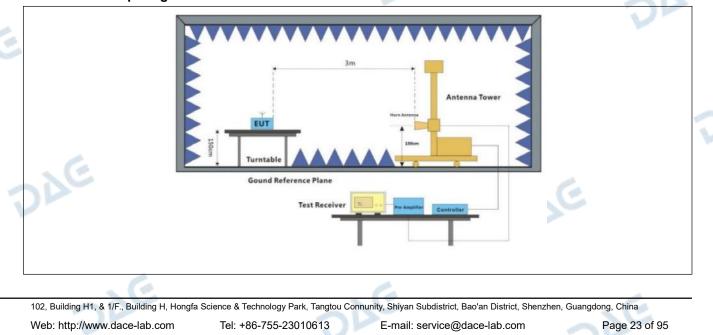
	· · · · ·							
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
Test Limit:	Frequency (MHz)	Field strength (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					
AC	** 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 KDB 558074 D01 15.247 N							
Procedure:	ANSI C63.10-2013 section	6.10.5.2	1C					
4.8.1 E.U.T. Operation:			24					

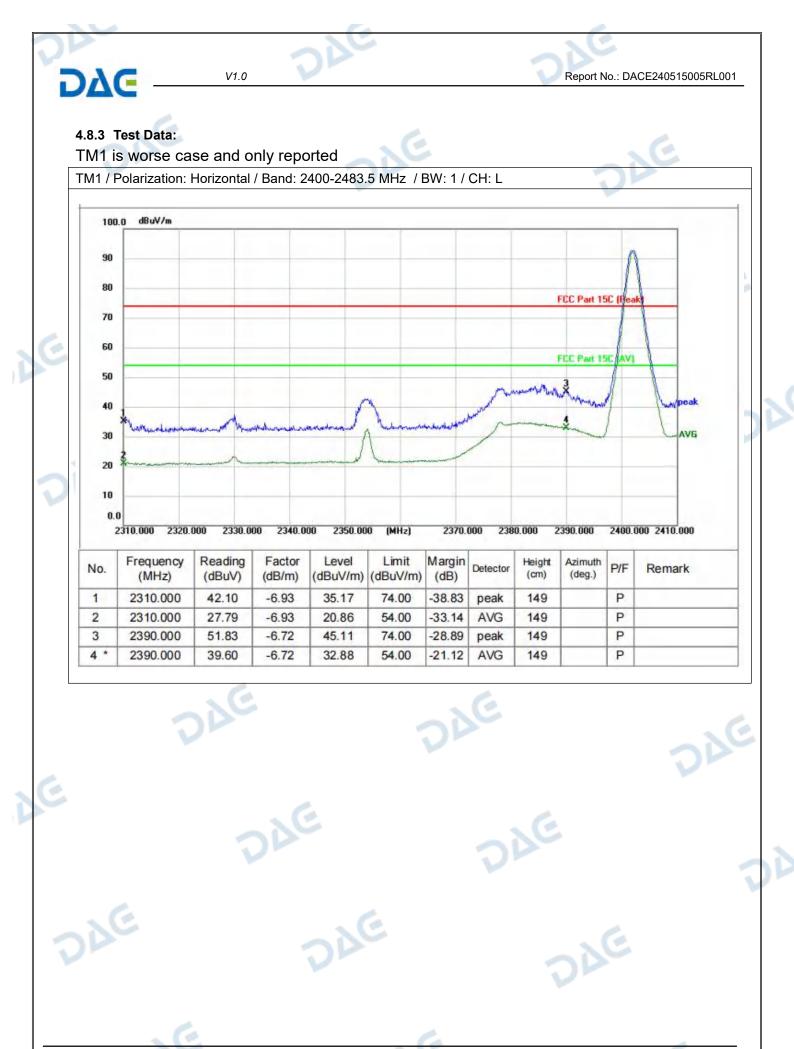
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Operating Environment:

Operating Environment:								
Temperature:	23.4 °C		Humidity:	55.9 %	Atmosph	eric Pressure:	101 kPa	
Pretest mode: TM1, TM2					6			
Final test mode: TM1								

4.8.2 Test Setup Diagram:

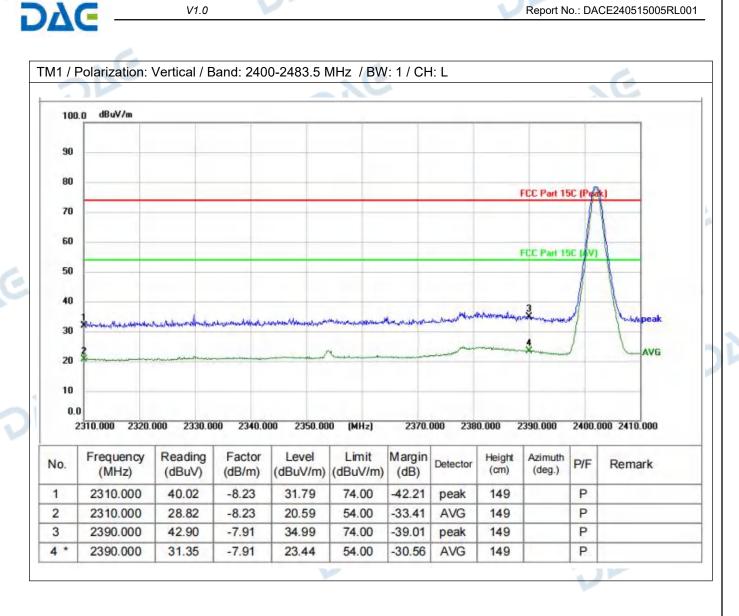




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Page 24 of 95

Report No.: DACE240515005RL001



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Page 25 of 95

)DE

DAC V1.0 Report No.: DACE240515005RL001 TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H dBuV/m 100.0 90 80 FCC Part 15C (Peak) 70 60 FEC Part 15C (AV) 50 40 AVG 30 20 10 0.0 2476.000 2479.000 2470.000 2473.000 2482.000 (MHz) 2488.000 2491.000 2494.000 2497.000 2500.000 Frequency Reading Factor Level Limit Margin Azimuth Height Detector P/F No. Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) (cm) (deg.) P 2483.500 57.80 -6.47 51.33 74.00 -22.67 149 1 peak 2 * 2483.500 54.45 -6.47 47.98 54.00 -6.02 P AVG 149 3 2500.000 47.45 -6.43 41.02 74.00 -32.98 peak 149 P P 4 2500.000 37.27 -6.43 30.84 54.00 -23.16 AVG 149

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Page 26 of 95

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DΔC V1.0 Report No.: DACE240515005RL001 TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H 100.0 dBuV/m 90 80 FCC Part 15C (Peak) 70 60 FCC Part 15C (AV) 50 40 30 AVG 20 10 0.0 2497.000 2500.000 2470.000 2473.000 2476.000 2479.000 2482.000 (MHz) 2488.000 2491.000 2494.000 Factor Frequency Reading Level Limit Margin Height Azimuth P/F Detector Remark No. (cm) (deg.) (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) -7.54 P 2483.500 46.01 38.47 74.00 -35.53 149 1 peak 2 * 2483.500 41.19 -7.54 33.65 54.00 -20.35 AVG 149 P 41.87 -7.48 P 3 2500.000 34.39 74.00 -39.61 peak 149 22.55

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

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4.9 Emissions in frequency bands (below 1GHz)

Test Requirement:	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			
	54-72 MHz, 76-88 MHz, these frequency bands is and 15.241. In the emission table abo The emission limits show employing a CISPR quas 110–490 kHz and above	r this section shall not be located in 174-216 MHz or 470-806 MHz. Ho is permitted under other sections of ove, the tighter limit applies at the b vn in the above table are based on si-peak detector except for the freq 1000 MHz. Radiated emission limit ents employing an average detector	wever, operation within this part, e.g., §§ 15.23 pand edges. measurements uency bands 9–90 kHz ts in these three bands			
Test Method:	ANSI C63.10-2013 secti	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02				
	360 degrees to determin b. For above 1GHz, the above the ground at a 3 degrees to determine the c. The EUT was set 3 or which was mounted on t d. The antenna height is determine the maximum polarizations of the anten e. For each suspected e the antenna was tuned to below 30MHz, the anten was turned from 0 degree f. The test-receiver syste Bandwidth with Maximur g. If the emission level o specified, then testing co reported. Otherwise the tested one by one using reported in a data sheet. h. Test the EUT in the low i. The radiation measure Transmitting mode, and	f the EUT in peak mode was 10dB buld be stopped and the peak value emissions that did not have 10dB r peak, quasi-peak or average meth	on. ating table 1.5 meters table was rotated 360 nce-receiving antenna, tower. ers above the ground to vrizontal and vertical ent. its worst case and then (for the test frequency of ind the rotatable table mum reading. n and Specified lower than the limit es of the EUT would be nargin would be re- od as specified and the the Highest channel. s positioning for it is the worst case.			
	Remark:	GHz, through pre-scan found the w				

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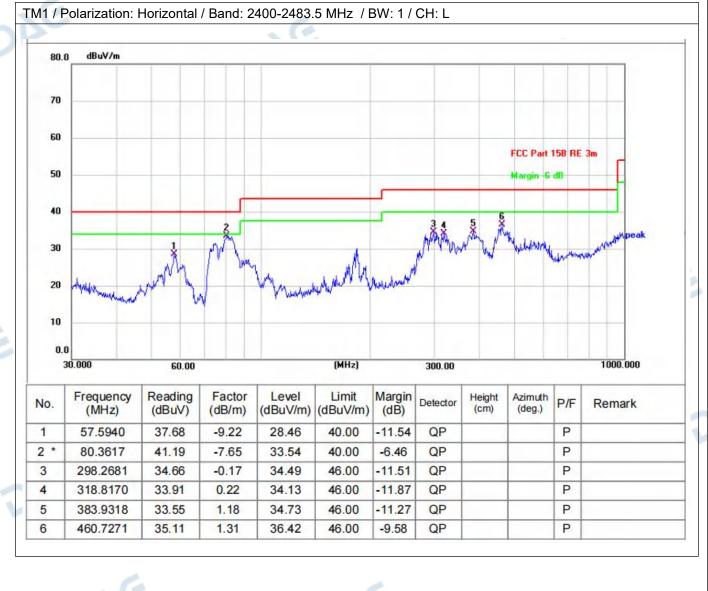
Page 28 of 95

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DAG -	V1.0	Report No.: DACE240515005RL00
6	channel. Only the worst of	ase is recorded in the report.
24	2) The field strength is cal	culated by adding the Antenna Factor, Cable Factor &
V		uation with a sample calculation is as follows: r Reading + Antenna Factor + Cable Factor "C
	Preamplifier Factor	Reading + Antenna Factor + Cable Factor C
		Hz, the disturbance above 12.75GHz and below 30MHz
		narked on above plots are the highest emissions could be
		ly above points had been displayed. The amplitude of
		he radiator which are attenuated more than 20dB below
	spurious emission is show	ted. Fundamental frequency is blocked by filter, and only

4.9.1 E.U.T. Operation:

Operating Environment:						
Temperature:	23.4 °C		Humidity:	55.9 %	Atmospheric Pressure:	101 kPa
Pretest mode: TM1, TM2						
Final test mode:	TM1					

4.9.2 Test Data:



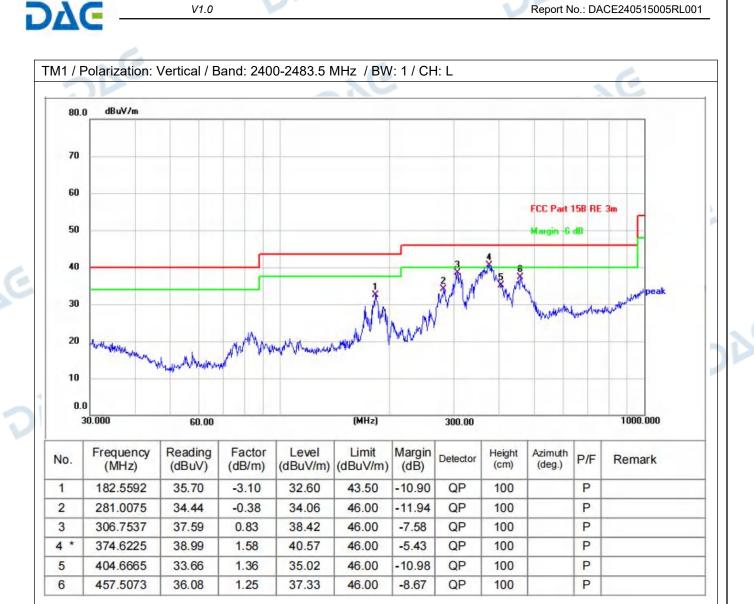
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Page 29 of 95

Report No.: DACE240515005RL001

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

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Report No.: DACE240515005RL001

4.10 Emissions in frequency bands (above 1GHz)

Test Requirement:		mply with the radiated emission	n fall in the restricted bands, as defined in § e radiated emission limits specified in §			
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:	 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. ANSI C63.10-2013 section 6.6.4 KDD 559074 D04 45 047 Mage Quidenee v05r00 					
Procedure:		KDB 558074 D01 15.247 Meas Guidance v05r02a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters				
D	360 degrees to determine b. For above 1GHz, the above the ground at a 3 degrees to determine th c. The EUT was set 3 or which was mounted on a d. The antenna height is determine the maximum polarizations of the anter e. For each suspected e the antenna was tuned to below 30MHz, the anter was turned from 0 degree f. The test-receiver syste Bandwidth with Maximu 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	of the EUT in peak mode was 10 build be stopped and the peak v emissions that did not have 10 peak, quasi-peak or average m	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 rement. d to its worst case and then ters (for the test frequency of er) and the rotatable table naximum reading. ction and Specified OdB lower than the limit alues of the EUT would be dB margin would be re- nethod as specified and the hel, the Highest channel. axis positioning for			
. Co	Remark:	ures until all frequencies measu GHz, through pre-scan found th	·			

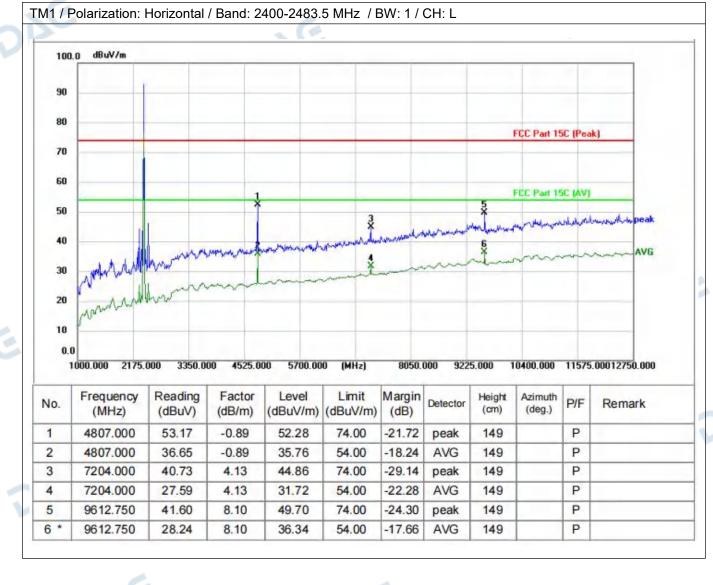
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	abaptal Only the worst asso	a recorded in the report
DAC	Preamplifier. The basic equati Final Test Level =Receiver Re Preamplifier Factor 3) Scan from 9kHz to 25GHz, was very low. The points mark found when testing, so only at spurious emissions from the ra	ted by adding the Antenna Factor, Cable Factor & on with a sample calculation is as follows: adding + Antenna Factor + Cable Factor "C the disturbance above 12.75GHz and below 30MHz sed on above plots are the highest emissions could be pove points had been displayed. The amplitude of adiator which are attenuated more than 20dB below Fundamental frequency is blocked by filter, and only

4.10.1 E.U.T. Operation:

Operating Environment:						
Temperature:	23.4 °C		Humidity:	55.9 %	Atmospheric Pressure:	101 kPa
Pretest mode: TM1, TM2						
Final test mode: TM1						

4.10.2 Test Data:

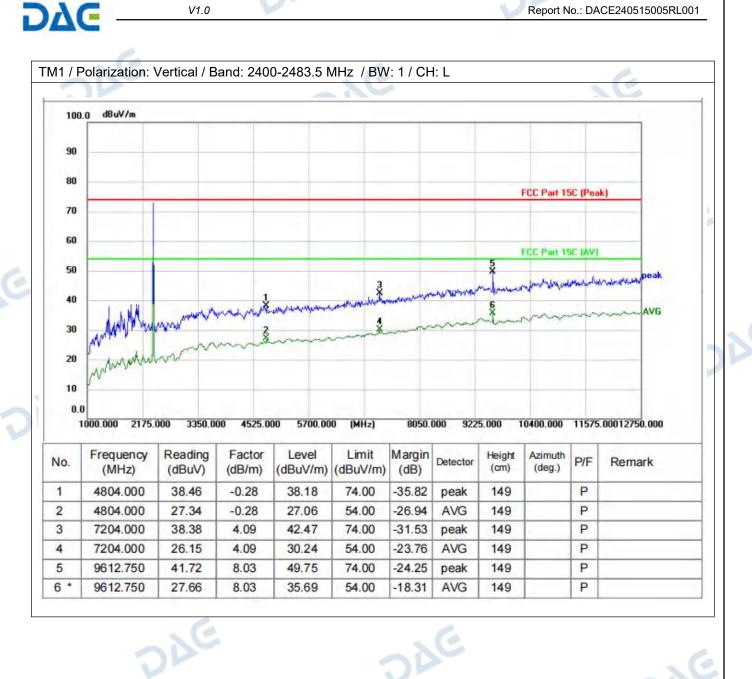


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Page 32 of 95

Report No.: DACE240515005RL001



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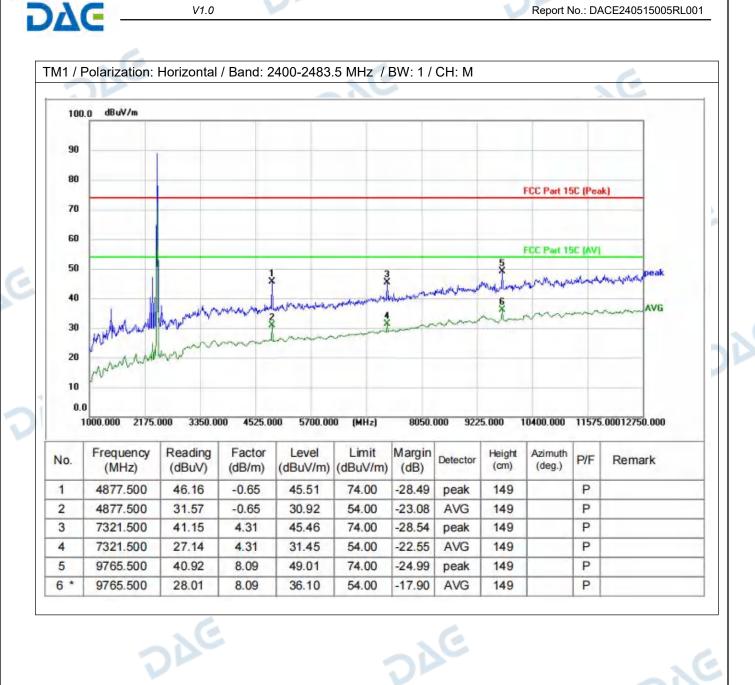
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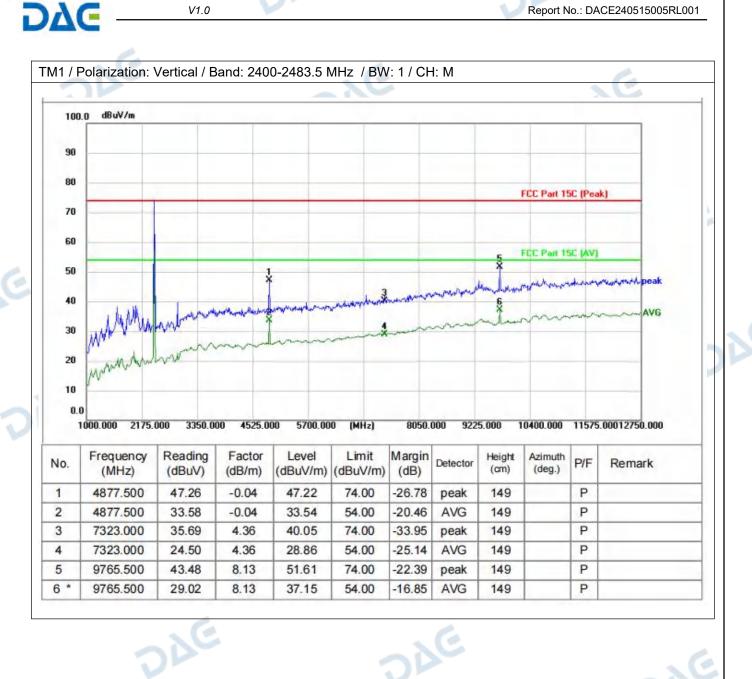
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Page 34 of 95

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Report No.: DACE240515005RL001



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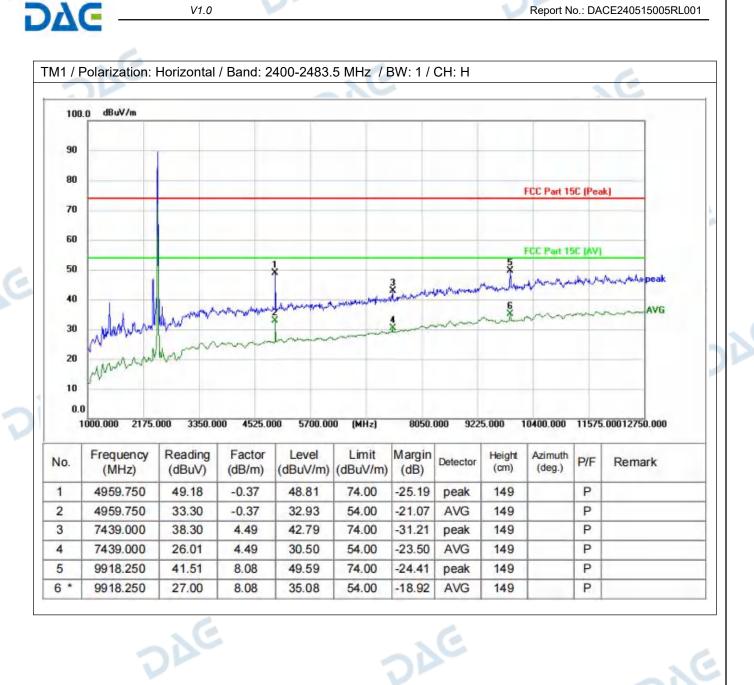
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Page 35 of 95

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Report No.: DACE240515005RL001



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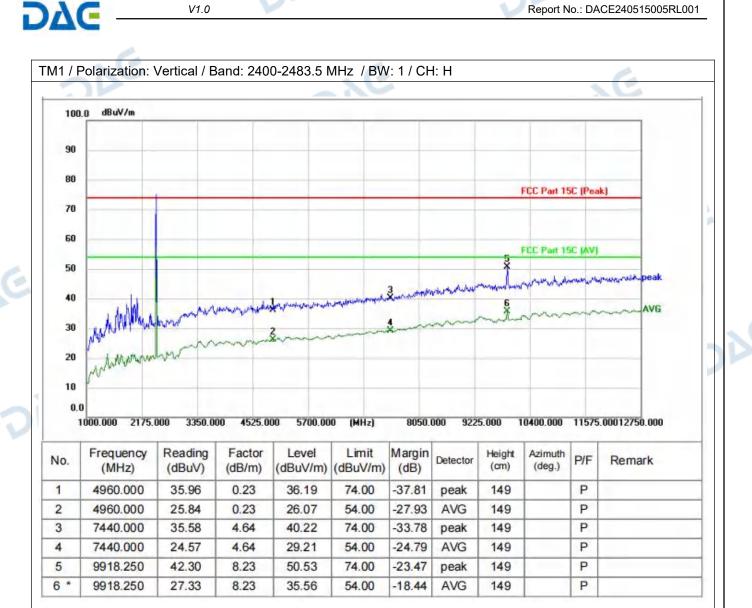
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Report No.: DACE240515005RL001

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

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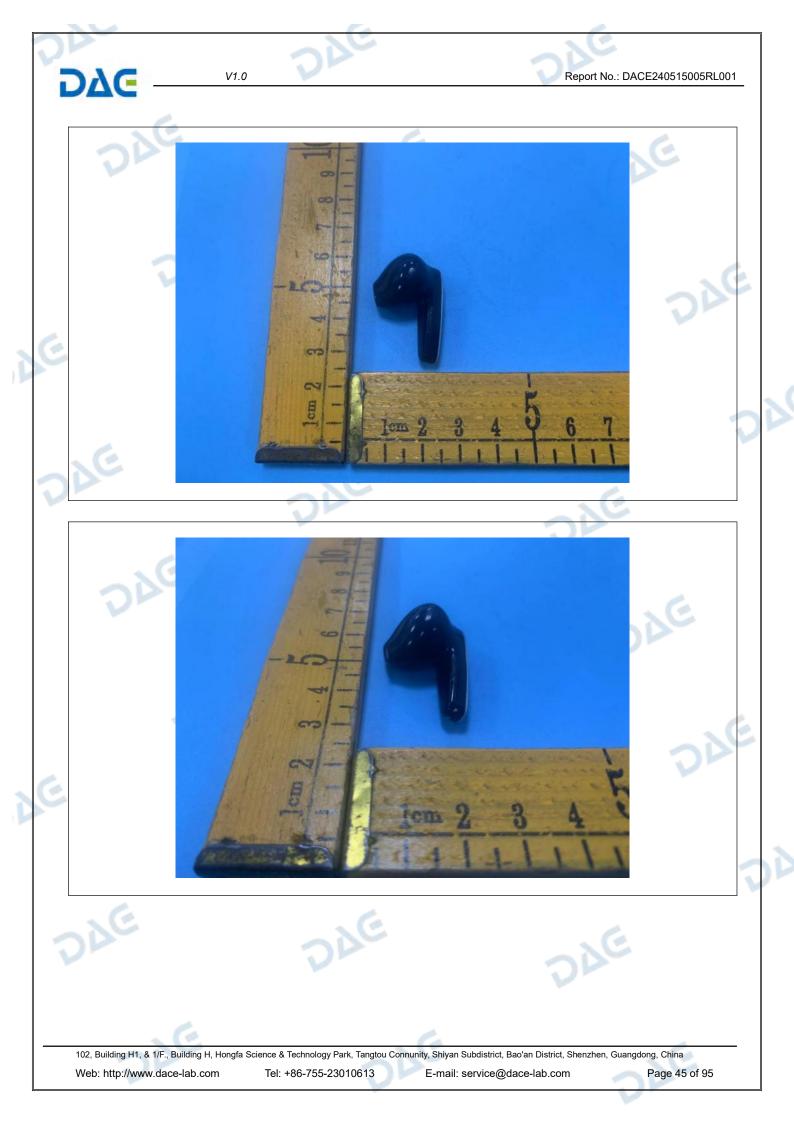


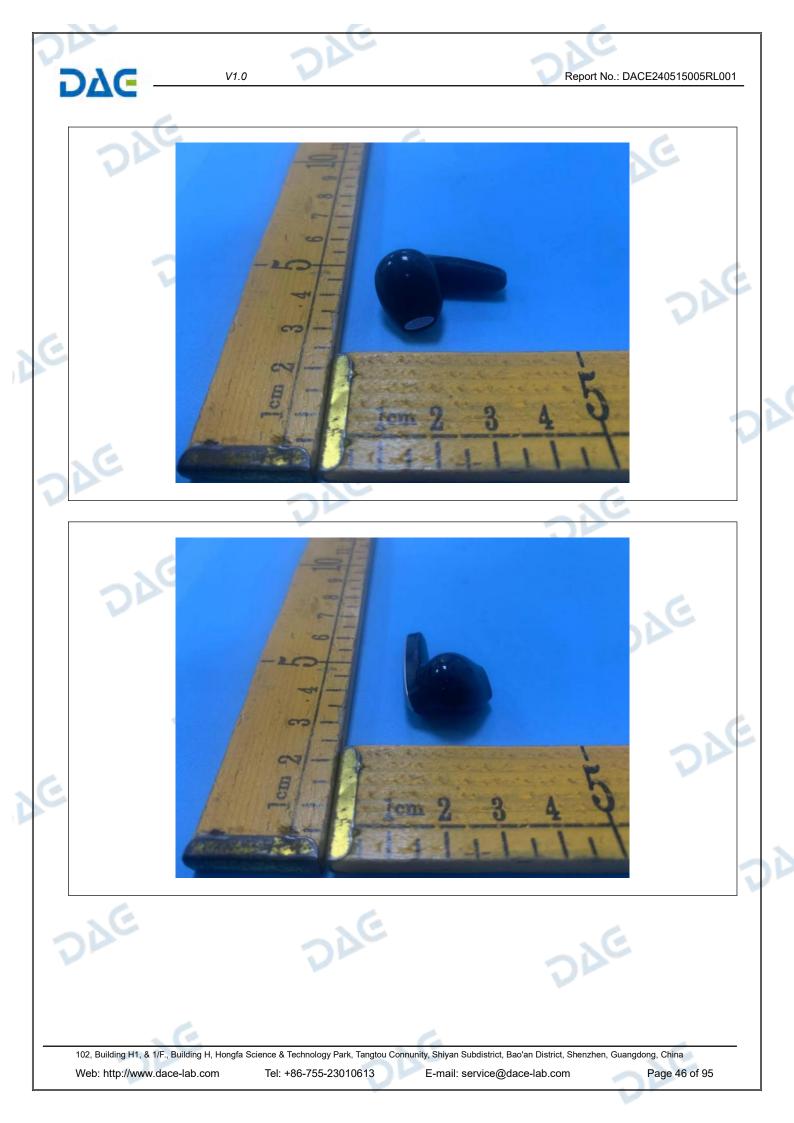




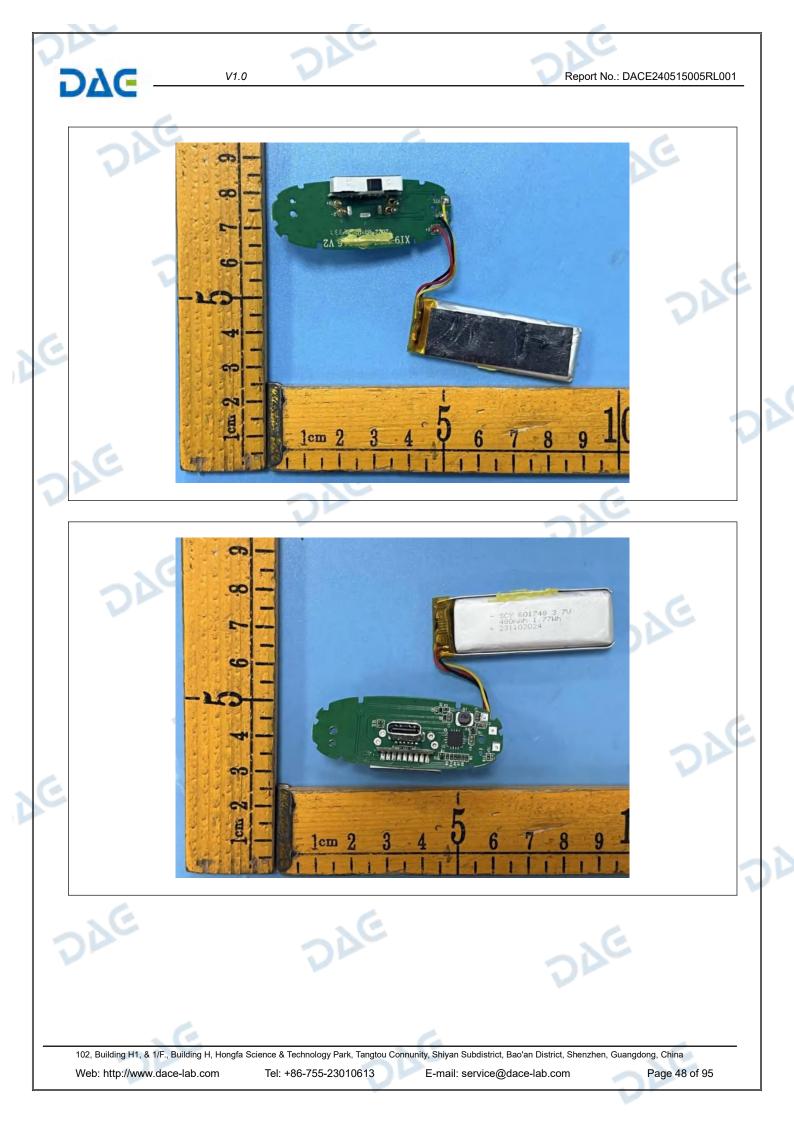




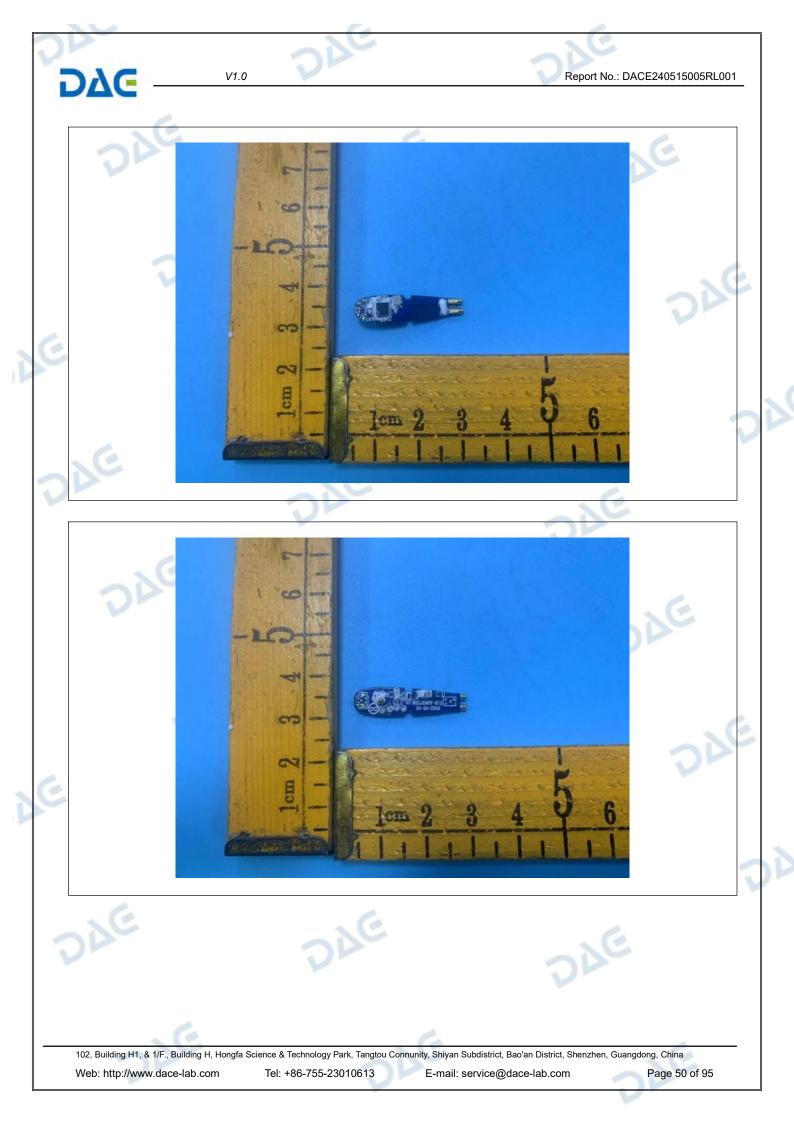




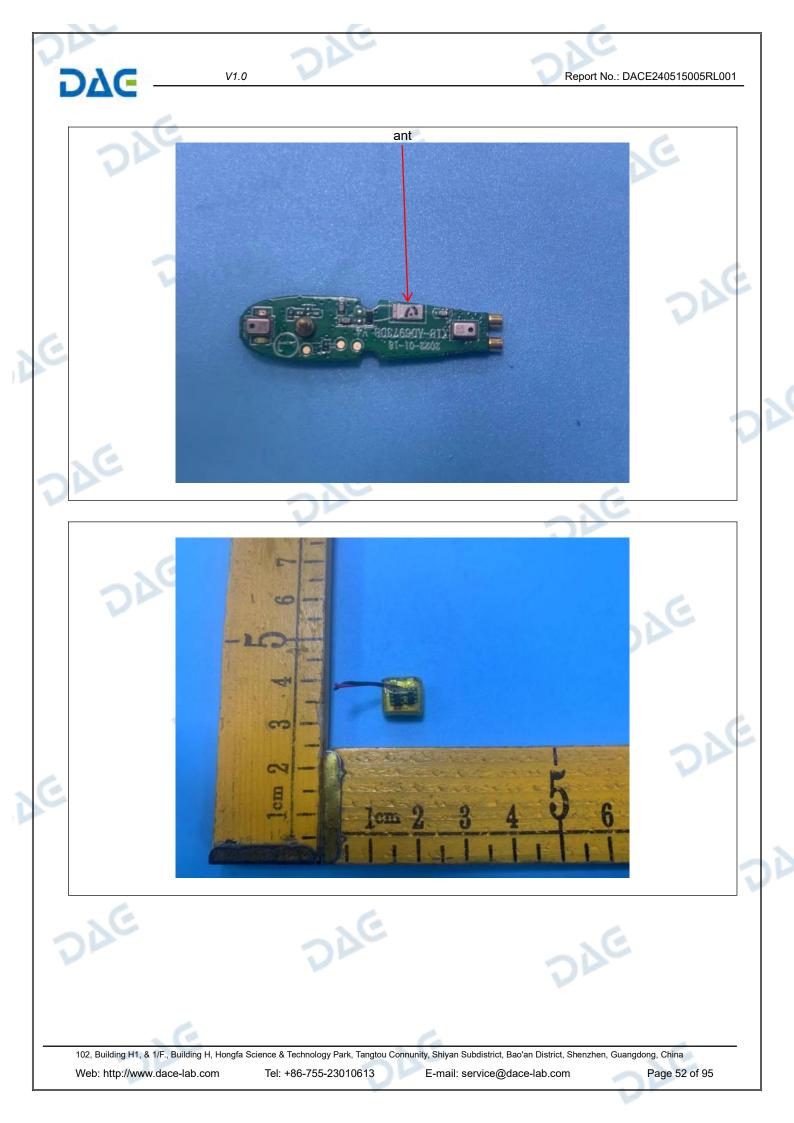


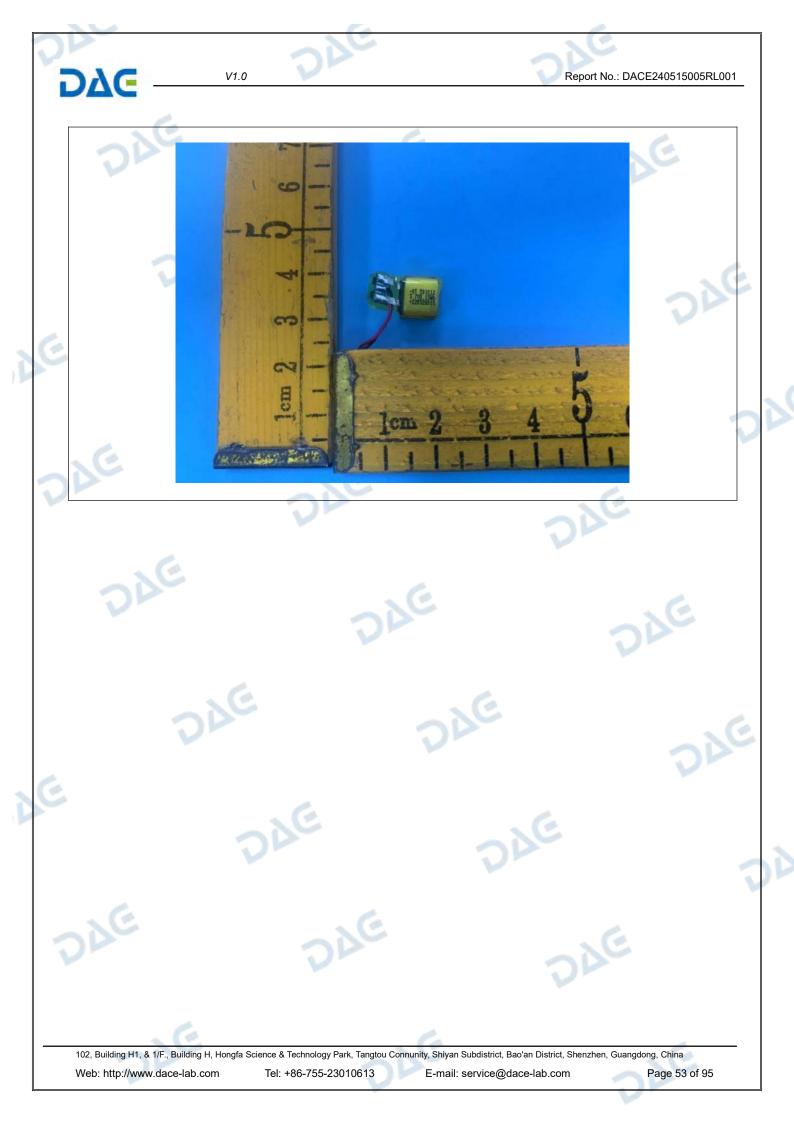














Report No.: DACE240515005RL001

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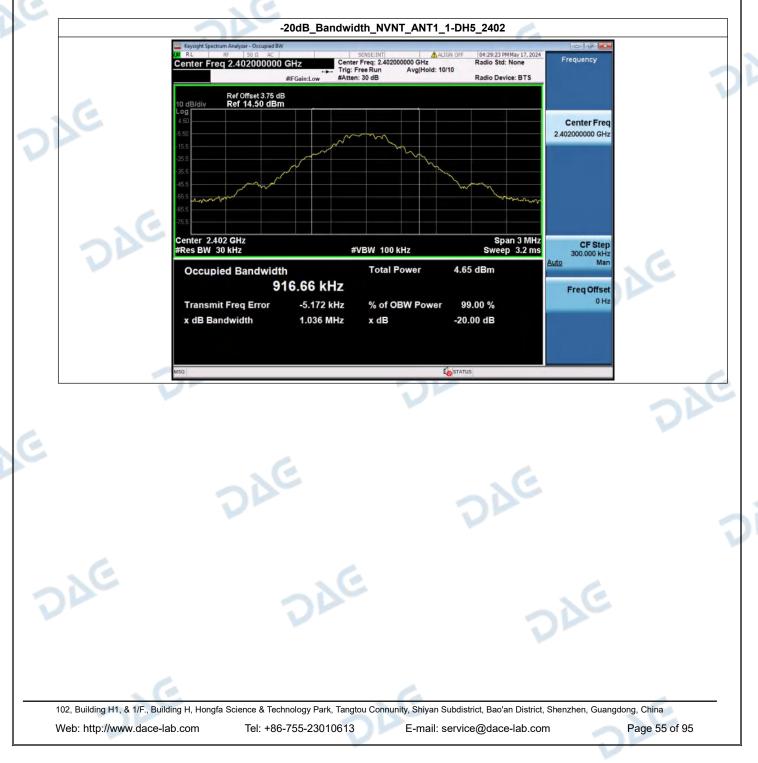
HT240515002--BX19--EDR--FCC FCC_BT (Part15.247) Test Data

1. -20dB Bandwidth

V1.0

DAG

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.036	Yes
NVNT	ANT1	1-DH5	2441.00	1.048	Yes
NVNT 🔰	ANT1	1-DH5	2480.00	1.051	Yes
NVNT	ANT1	2-DH5	2402.00	1.322	Yes
NVNT	ANT1	2-DH5	2441.00	1.329	Yes
NVNT	ANT1	2-DH5	2480.00	1.326	Yes







DAG -	V1.0	Report No.: DACE240515005RL001
DAC	-20dB_Bandwidth_NVNT_ANT1_2-E	DH5_2480
	Keysight Spectrum Analyzer - Occupied BW W RL RF S0 0 AC Center Freq: 2.480000000 GHz #IFGain:Low #IFGain:Low #Atten: 30 dB Center Freq: 2.480000000 GHz Trig: Free Run Avg Hold:>10/10 #Atten: 30 dB	Radio Std: None Frequency
~	Ref Offset 3.85 dB 10 dB/div Ref 10.70 dBm Log	Center Freq 2.48000000 GHz
	-19.3 29.3 39.3 49.3	
E	-99.3 -69.3 -79.3	
		Span 3 MHz Sweep 3.2 ms 5.70 dBm
		99.00 % 0 Hz 20.00 dB
OAC	MSG 65	TATIS
		DAC

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Report No.: DACE240515005RL001

2. 99% Occupied Bandwidth

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Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.915
NVNT	ANT1	1-DH5	2441.00	0.928
NVNT	ANT1	1-DH5	2480.00	0.931
NVNT	ANT1	2-DH5	2402.00	1.194
NVNT	ANT1	2-DH5	2441.00	1.199
NVNT	ANT1	2-DH5	2480.00	1.198







DAG -	V1.0	Report No.: DAC	E240515005RL001
DAC -			
- <u>></u> C	6		
JC -	99%_Occupied_Bandwidth_		C
	Keysight Spectrum Analyzer - Occupied BW SENSE:INT RL RF 50 Ω AC Center Freq 2.480000000 GHz Center Freq: 2.48000 Trig: Free Run	ALIGN OFF 04:59:50 PM May 17, 2024 Frequency Avg[Hold: 10/10	
	#IFGain:Low #Atten: 30 dB	Radio Device: BTS	
	Ref Offset 3.85 dB 10 dB/div Ref 10.70 dBm		
2	9.30	Center Freq 2.48000000 GHz	
V	19.3 29.3		- XC
	39.3 49.3 mm		2P
	59.3 69.3		
5		Same 2 Mile	
	Center 2.48 GHz #Res BW 30 kHz #VBW 100 k	Auto Man	
	Occupied Bandwidth Total P 1.1978 MHz	ower 5.74 dBm	
		3W Power 99.00 % OHz	
6	x dB Bandwidth 1.404 MHz x dB	-26.00 dB	
	MSG	Contraction of the status of t	

Report No.: DACE240515005RL001

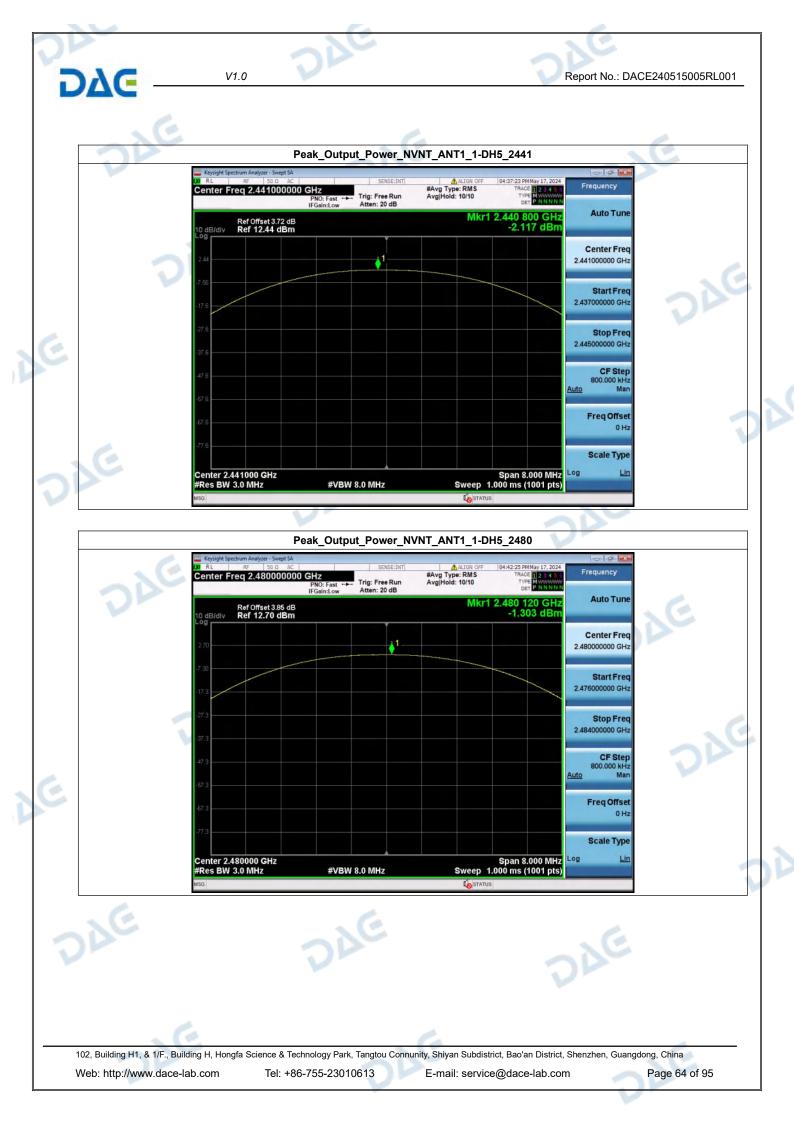
3. Peak Output Power

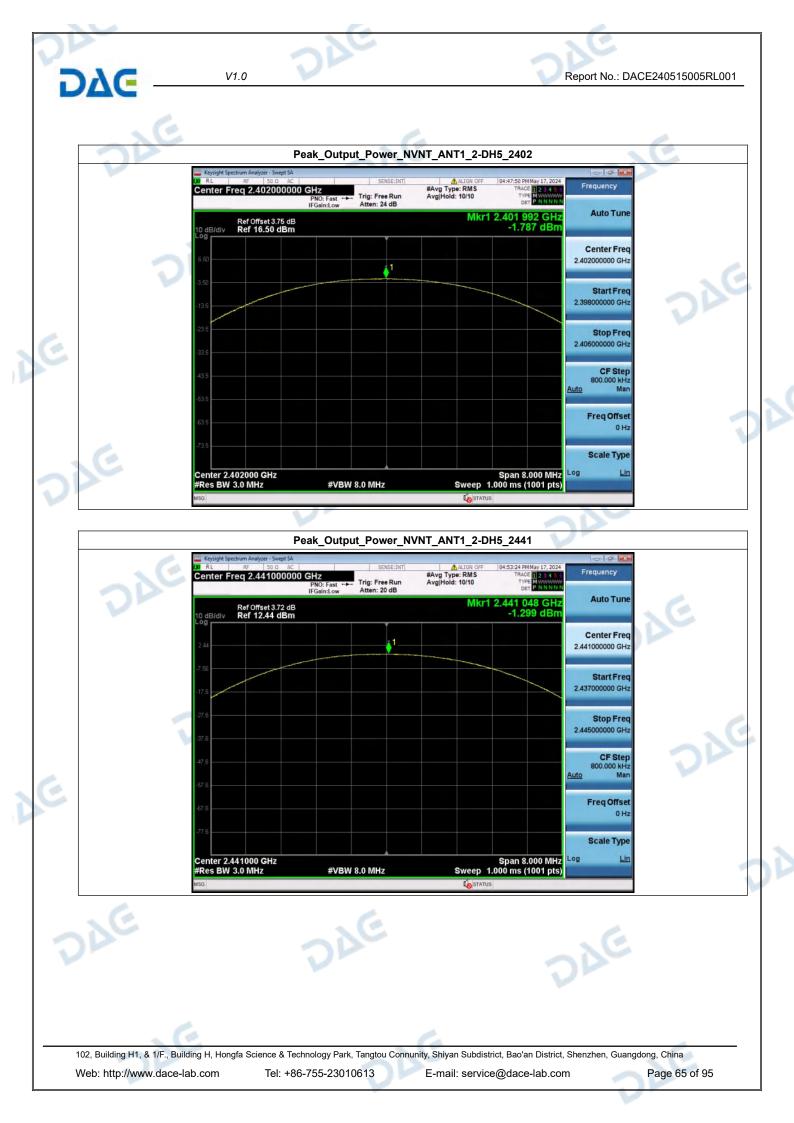
DVG

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	-2.70	0.54	125	Pass
NVNT	ANT1	1-DH5	2441.00	-2.12	0.61	125	Pass
NVNT	ANT1	1-DH5	2480.00	-1.30	0.74	125	Pass
NVNT	ANT1	2-DH5	2402.00	-1.79	0.66	125	Pass
NVNT	ANT1	2-DH5	2441.00	-1.30	0.74	125	Pass
NVNT	ANT1	2-DH5	2480.00	-0.50	0.89	125	Pass

C







- OP	Peak_Output_Powe	r_NVNT_ANT1_2-DH5_2480		
LXI RL	er Freq 2.480000000 GHz PNO: Fast + Trig: Free R	#Avg Type: RMS TRACE 2 tun Avg Hold: 10/10 TYPE MW	7.2024	
10 dB/	Ref Offset 3.85 dB	Mkr1 2.480 048 0 -0.497 d	SHZ Auto Tune Bm	
8.70 –			Center Freq 2.48000000 GHz	
-1.30 -		1	Start Freq	
-11.3			2.476000000 GHz	
-21.3			Stop Freq 2.484000000 GHz	
-41.3			CF Step 800.000 kHz	
-51.3 -			Auto Man	
-61.3			Freq Offset 0 Hz	
-713			Scale Type	
Cente #Res	er 2.480000 GHz BW 3.0 MHz #VBW 8.0 MHz	Span 8.000 Sweep 1.000 ms (1001	MHz Log Lin pts)	
- Com	V-	LO PREUS	200	

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Report No.: DACE240515005RL001

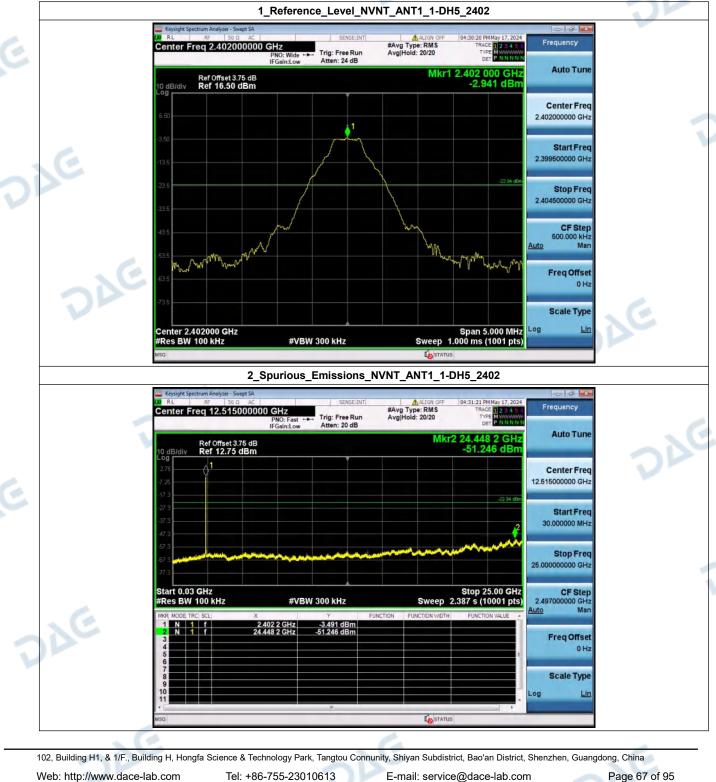
V1.0

4. Spurious Emissions

DAG

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-51.246	-22.941	Pass
NVNT	ANT1	1-DH5	2441.00	-51.071	-22.321	Pass
NVNT	ANT1	1-DH5	2480.00	-55.251	-21.701	Pass
NVNT	ANT1	2-DH5	2402.00	-51.309	-22.971	Pass
NVNT	ANT1	2-DH5	2441.00	-51.259	-22.389	Pass
NVNT	ANT1	2-DH5	2480.00	-54.609	-21.684	Pass

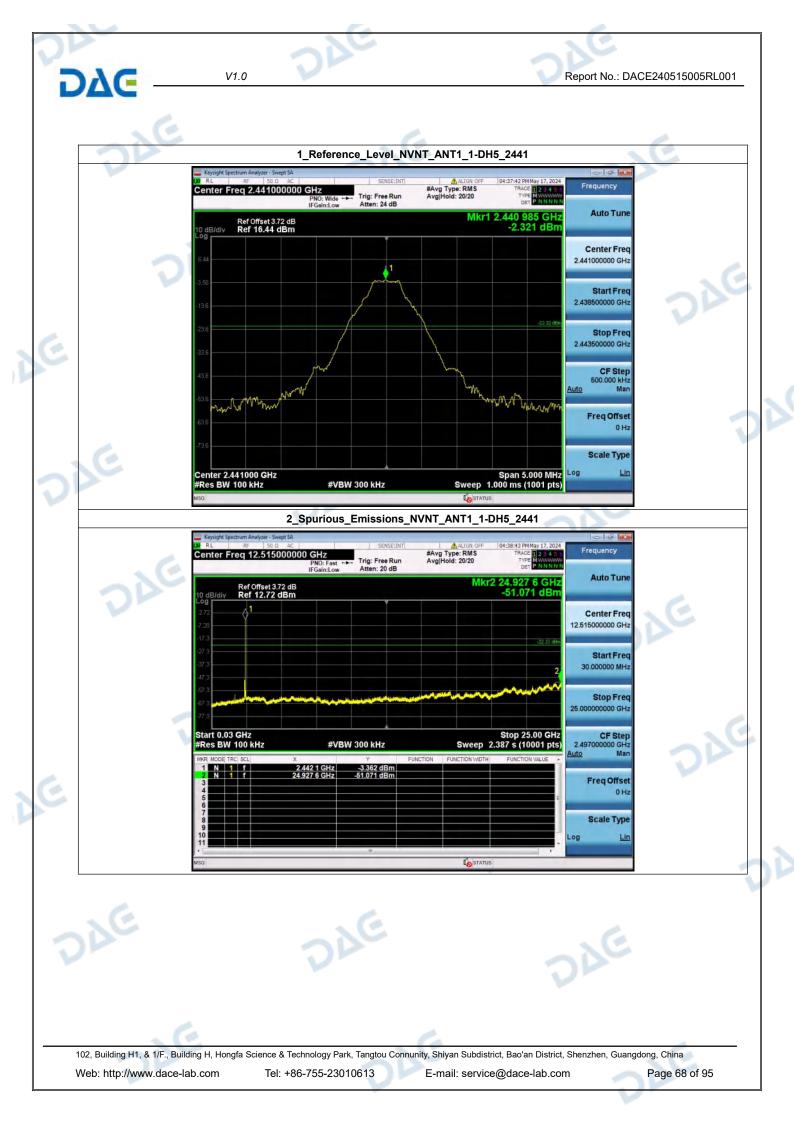
C

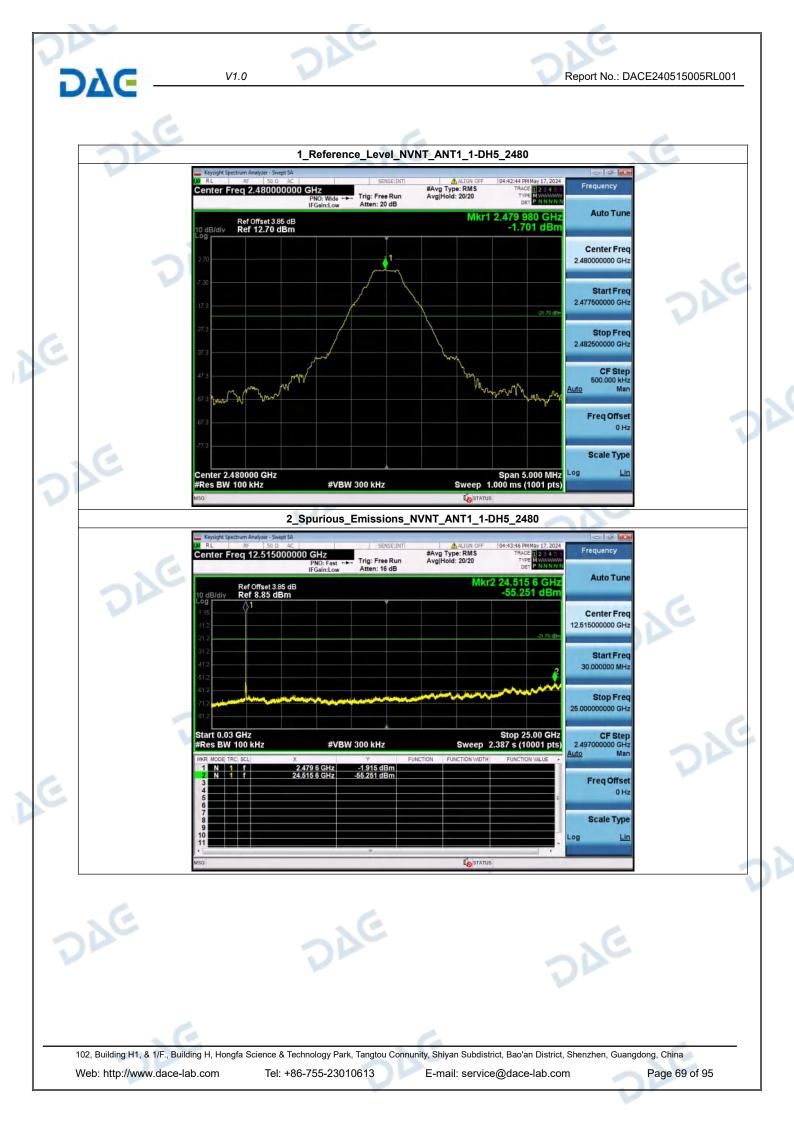


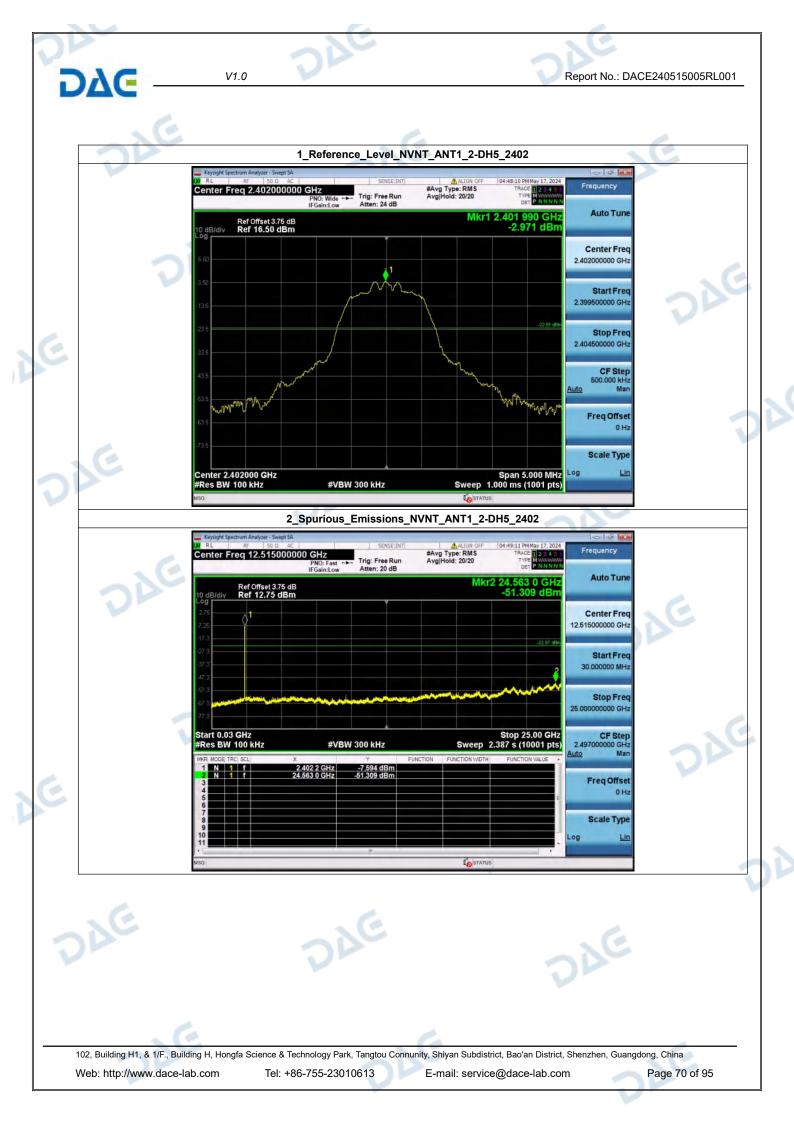
Page 67 of 95

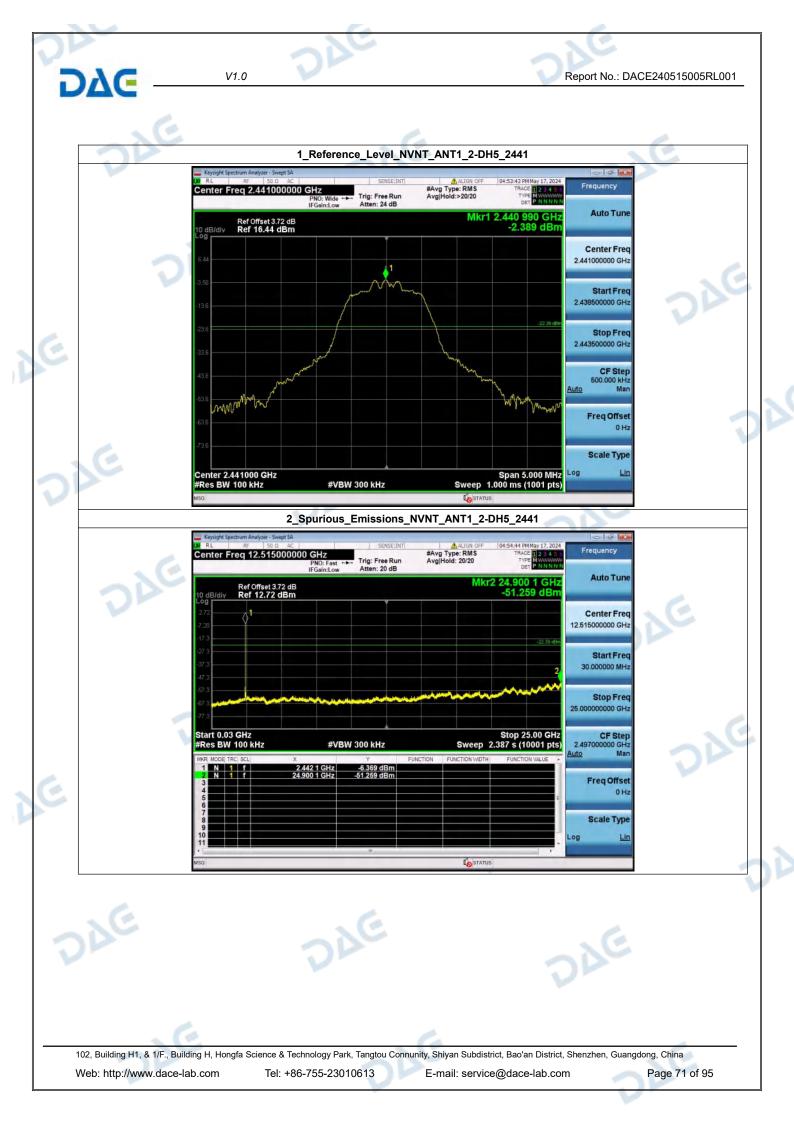
Web: http://www.dace-lab.com

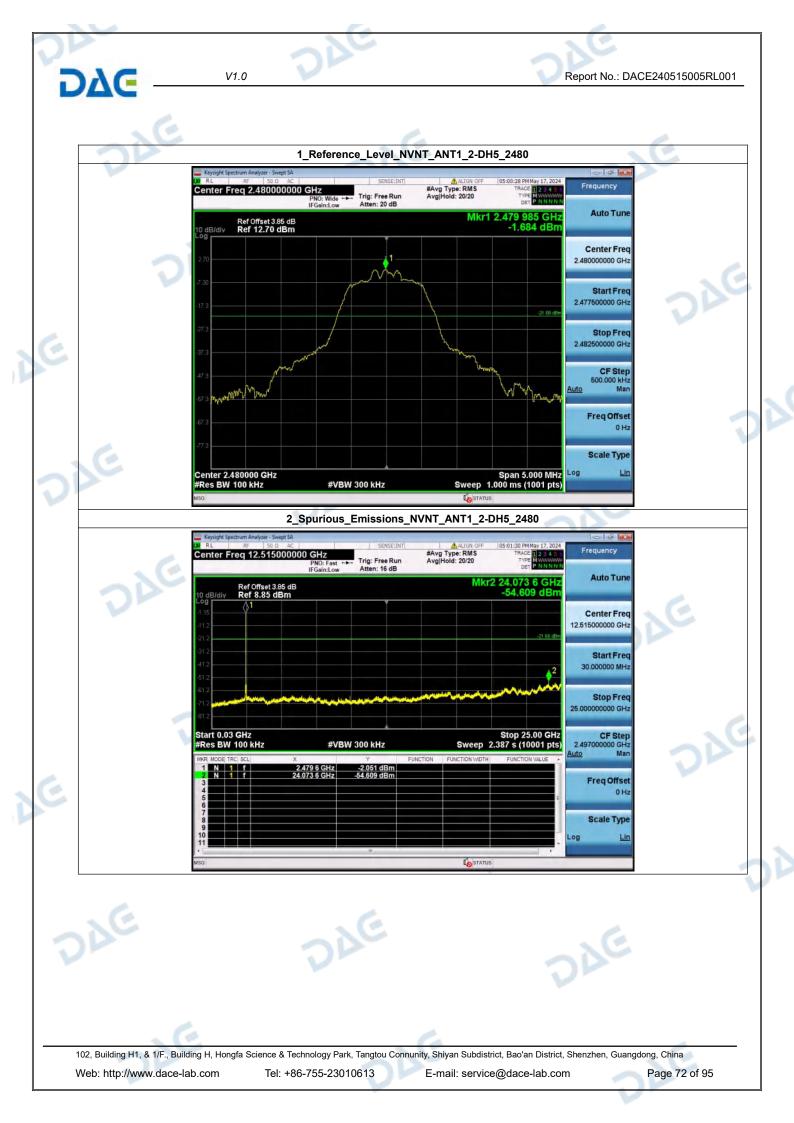
E-mail: service@dace-lab.com











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Report No.: DACE240515005RL001

5. Bandedge

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Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result	
NVNT	ANT1	1-DH5	2402.00	-55.854	-22.941	Pass	
NVNT	ANT1	1-DH5	Hopping_LCH	-58.120	-21.776	Pass	
NVNT	ANT1	1-DH5	2480.00	-55.599	-21.701	Pass	
NVNT	ANT1	1-DH5	Hopping_HCH	-55.821	-21.815	Pass	
NVNT	ANT1	2-DH5	2402.00	-53.368	-22.971	Pass	
NVNT	ANT1	2-DH5	Hopping_LCH	-55.916	-22.045	Pass	
NVNT	ANT1	2-DH5	2480.00	-55.344	-21.684	Pass	
NVNT	ANT1	2-DH5	Hopping_HCH	-54.330	-21.790	Pass	

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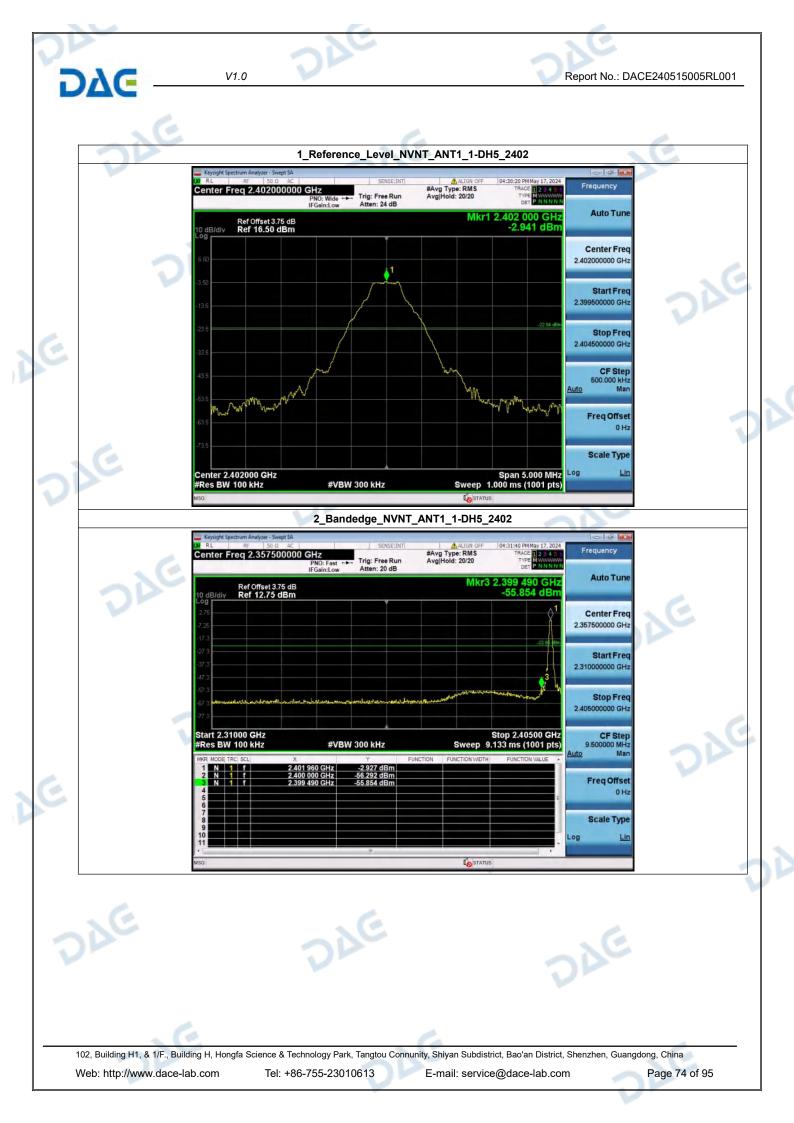
DAG

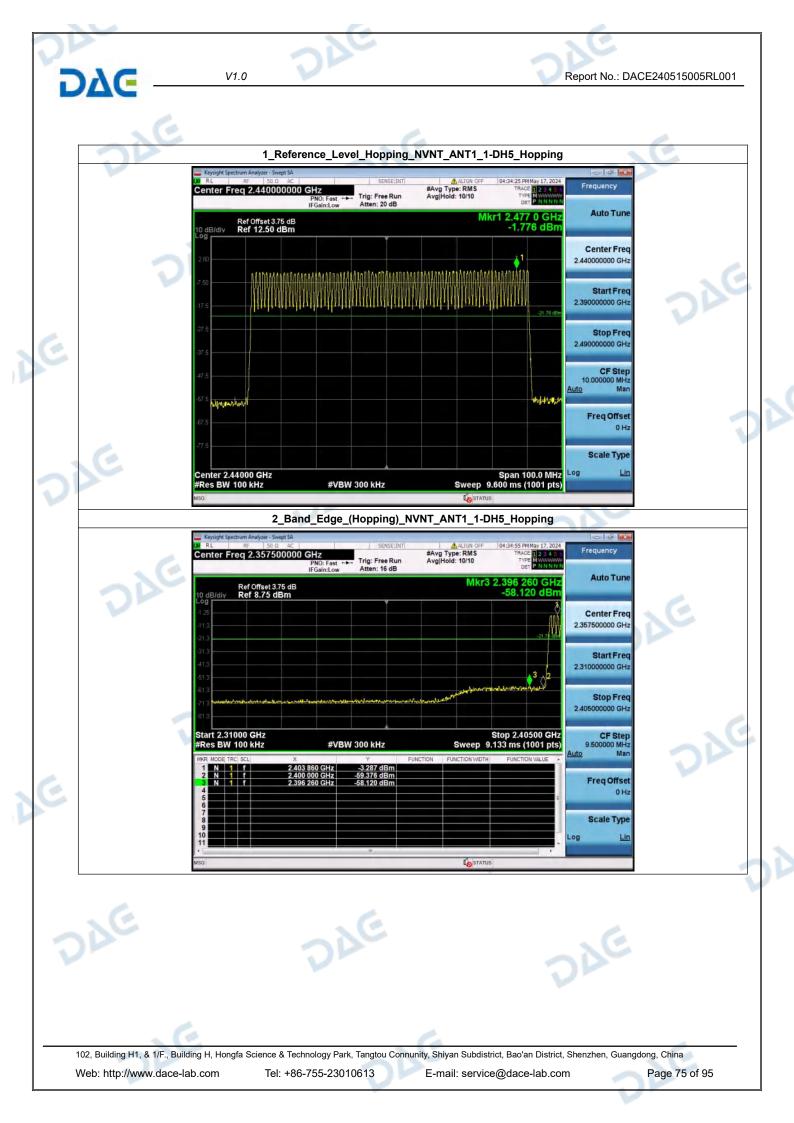
)AC

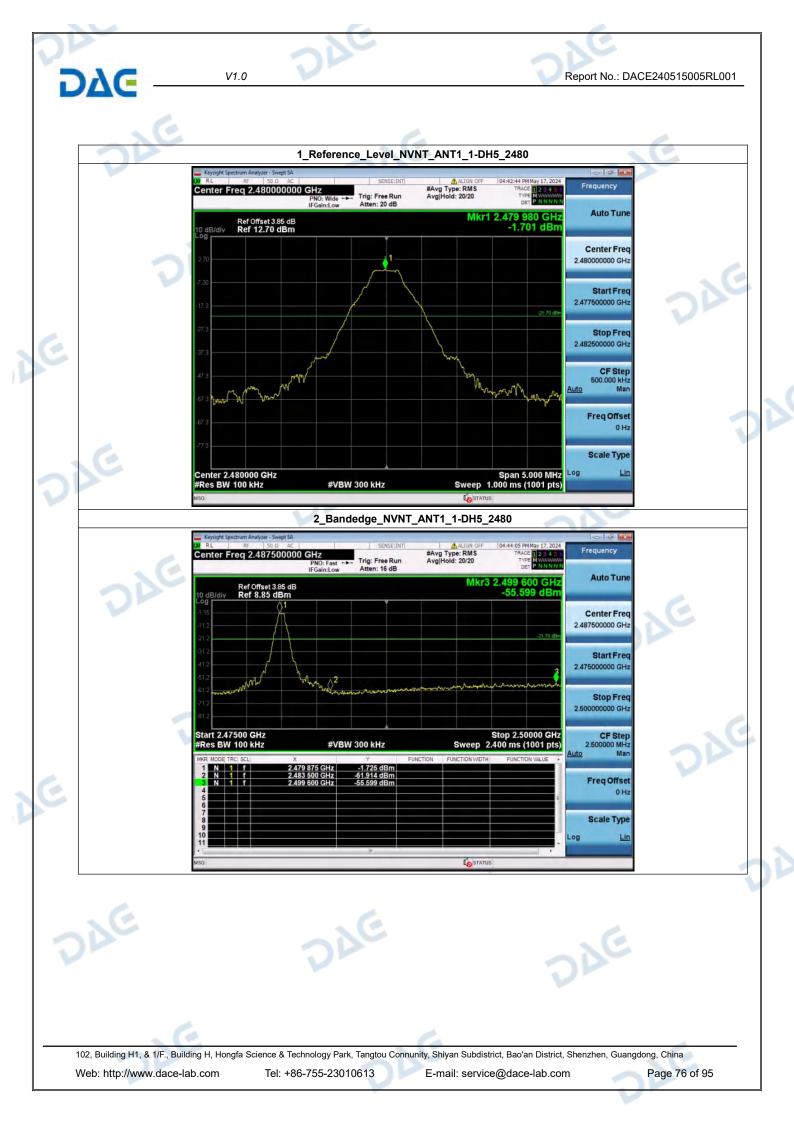
e

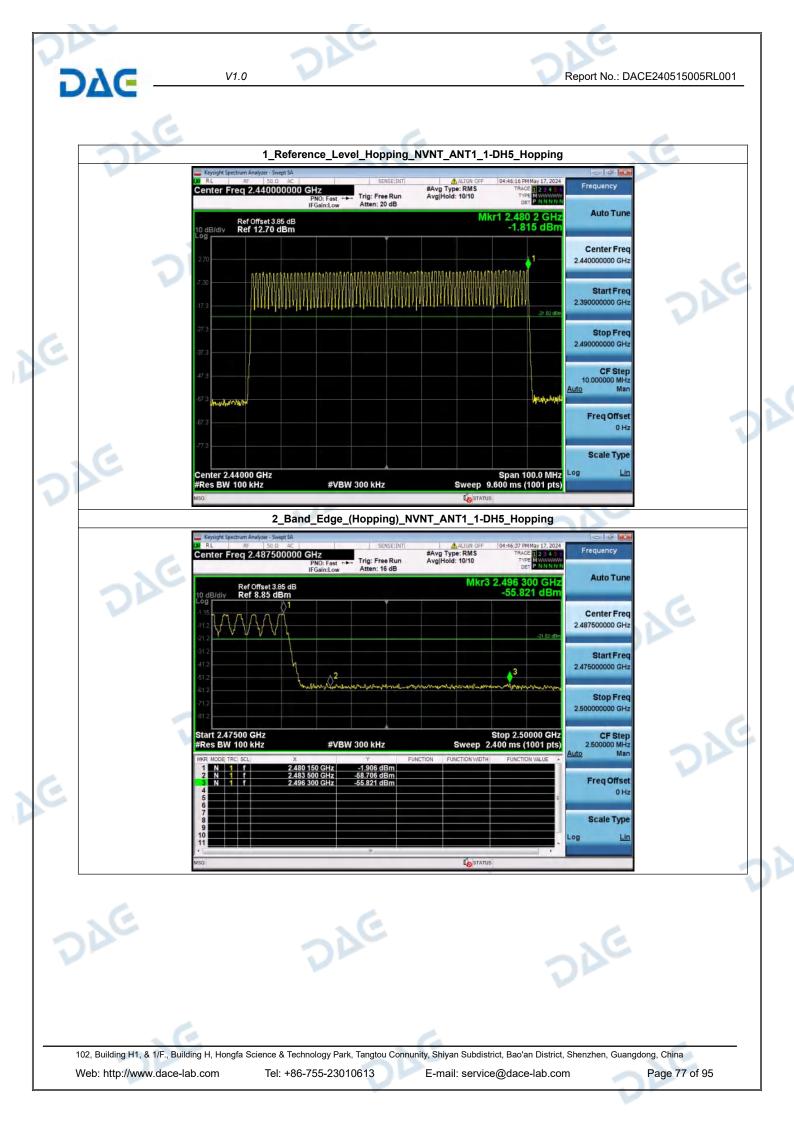
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23010613 Web: http://www.dace-lab.com E-mail: service@dace-lab.com

DAE

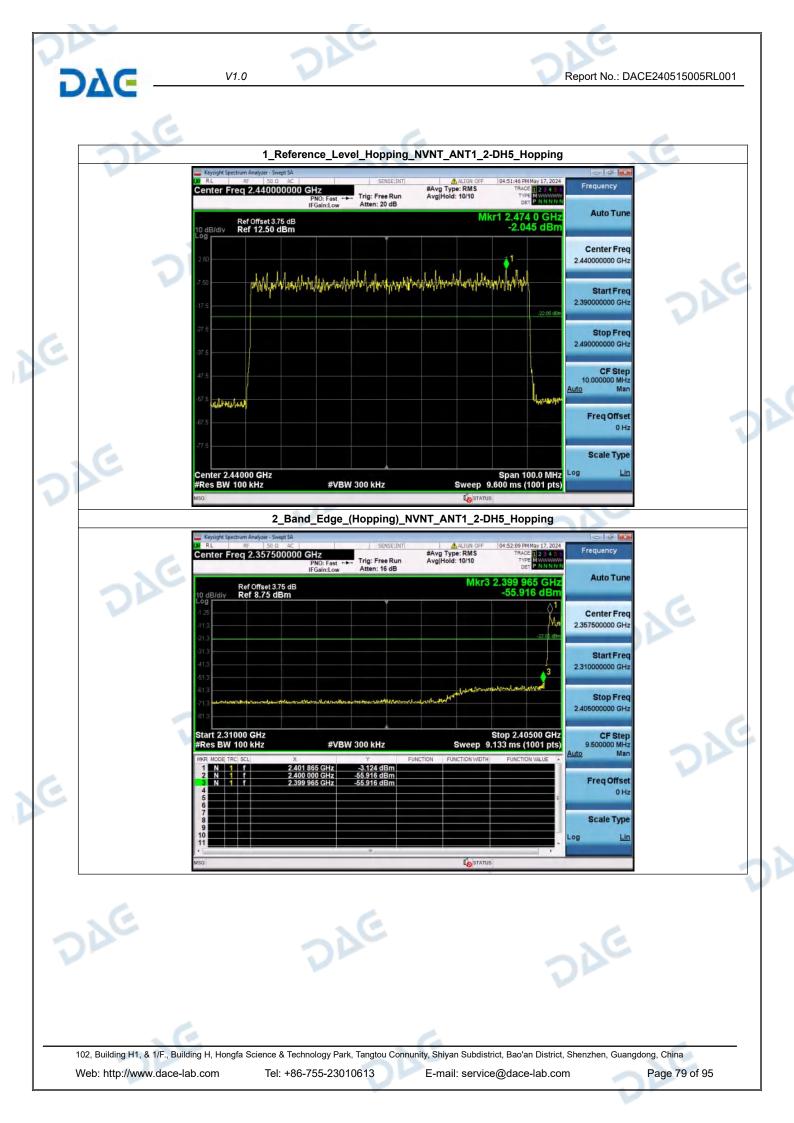


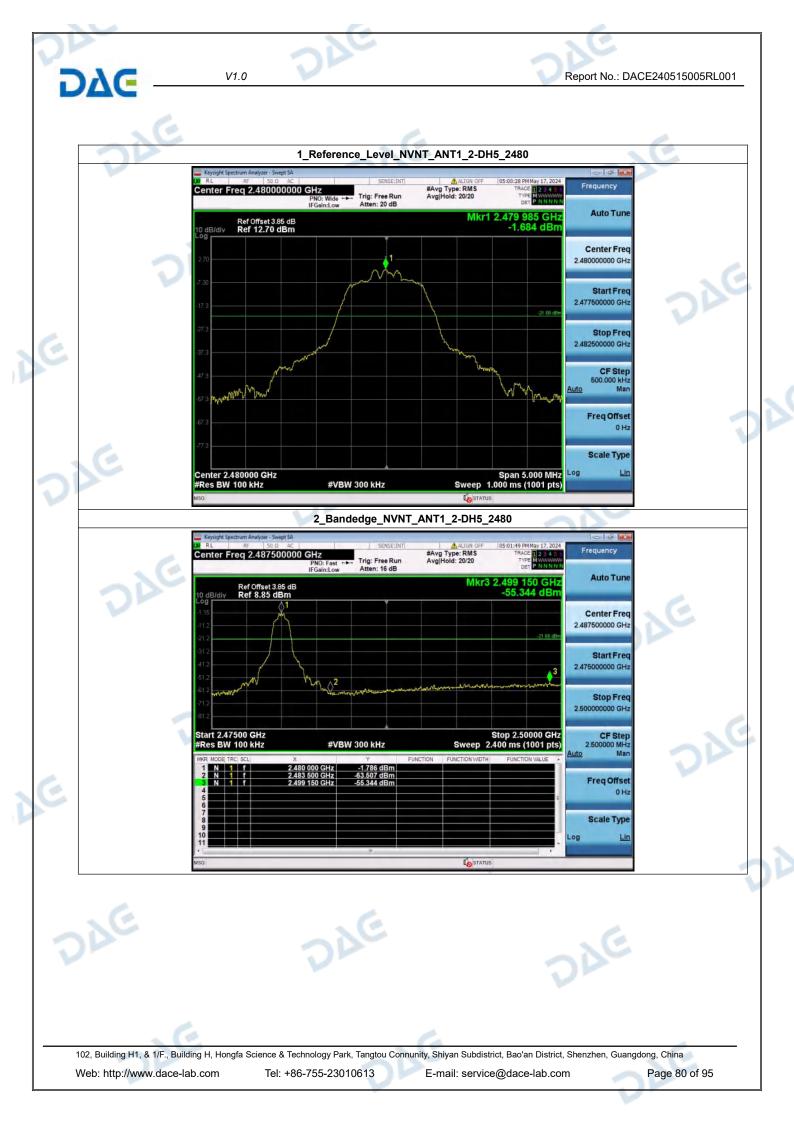














Report No.: DACE240515005RL001

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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	2402.170	2402.992	0.82	0.691	Pass
NVNT	ANT1	1-DH5	2441.00	2441.008	2441.992	0.98	0.699	Pass
NVNT	ANT1	1-DH5	2480.00	2478.981	2479.968	0.99	0.701	Pass
NVNT	ANT1	2-DH5	2402.00	2402.014	2402.995	0.98	0.881	Pass
NVNT	ANT1	2-DH5	2441.00	2440.834	2441.983	1.15	0.886	Pass
NVNT	ANT1	2-DH5	2480.00	2478.843	2479.815	0.97	0.884	Pass









V1.0

DΔC

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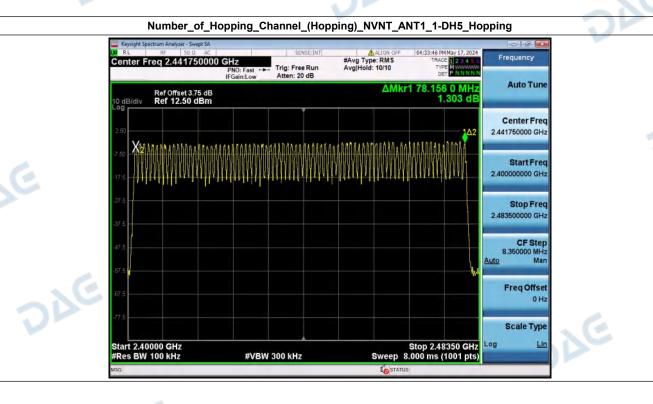
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7. Number of Hopping Channel (Hopping)

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



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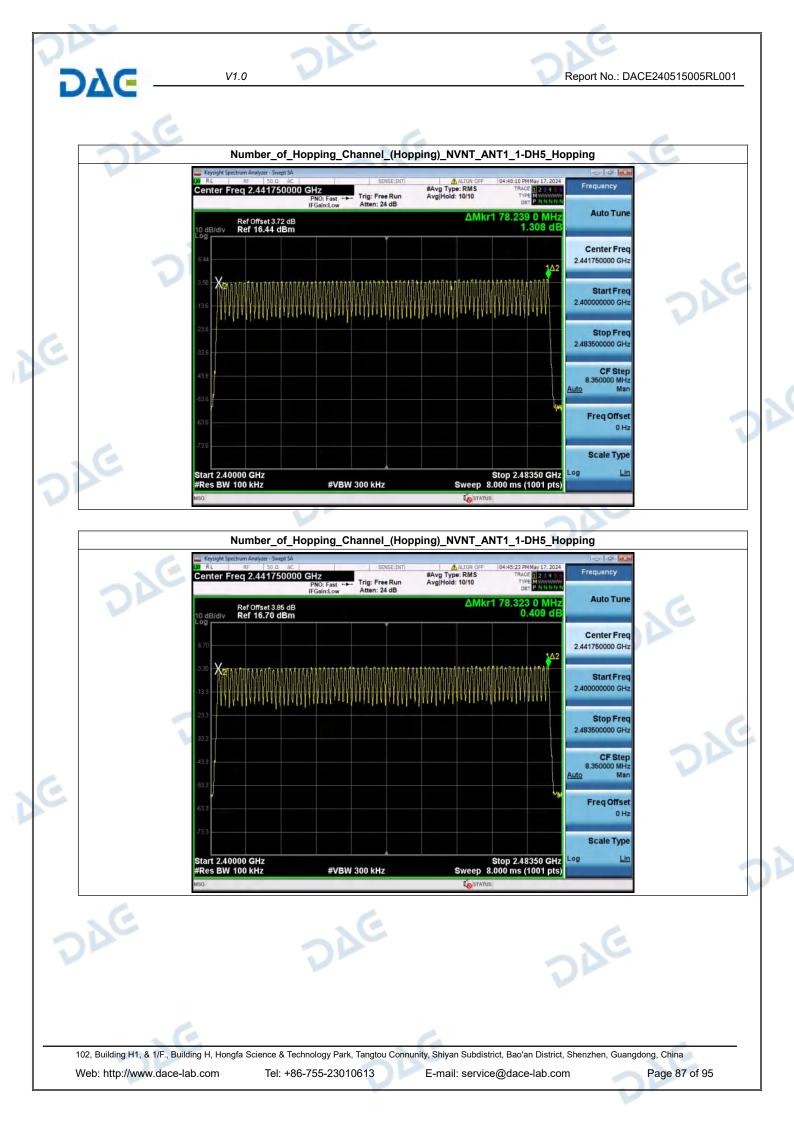
DAG

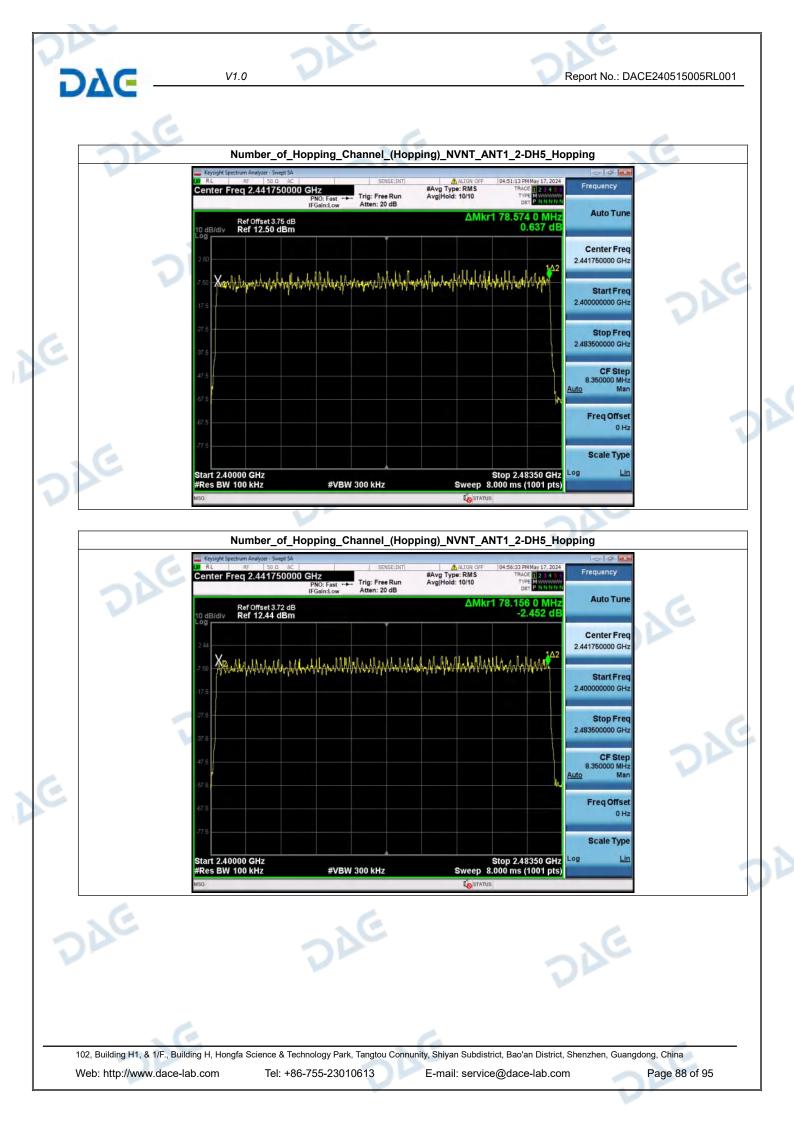
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Page 86 of 95

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SYC	Number_of_Hopping_Channel_(Hopping)_N Keysight Spectrum Analyzer - Swept SA Ref So Q AC Constant Erson 2: Add 75 Son Q CHa	ALIGN OFF 05:03:04 PM May 17, 2024
	Center Freq 2.441750000 GHz PN0: Fast →→ IFGain:Low Trig: Free Run Atten: 24 dB #Avg Hold Avg Hold Ref Offset 3.85 dB 10 dB/div Ref 16.70 dBm 6.70	Prequency Frequency d: 10/10 Type Frequency ΔMkr1 78.156 0 MHz 0.227 dB Auto Tune Center Freq 2.441750000 GHz
E	3.30 X -13.3 -13.3 -23.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4 -33.3 -13.4	Stop Freq 2.483500000 GHz CF Step 8.350000 MHz Auto Man
DIE	483 3 733 Start 2.40000 GHz #Res BW 100 kHz #VBW 300 kHz MS0	Stop 2.48350 GHz Sweep 8.000 ms (1001 pts)
270		

Report No.: DACE240515005RL001

V1.0

8. Dwell Time (Hopping)

DAC

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.888	102.00	294.576	0.40	Pass
NVNT	ANT1	2-DH5	2.893	101.00	292.193	0.40	Pass
NVNT	ANT1	1-DH1	0.383	319.00	122.177	0.40	Pass
NVNT	ANT1	1-DH3	1.640	165.00	270.600	0.40	Pass
NVNT	ANT1	2-DH1	0.393	319.00	125.367	0.40	Pass
NVNT	ANT1	2-DH3	1.645	172.00	282.940	0.40	Pass

6

