

RF TEST REPORT

For

Shenzhen AoMeiRui Lighting Co.,Ltd

Product Name: Microphone

Test Model(s).: K66DG

Report Reference No. : DACE241121022RL002

FCC ID : 2BMI6-K66DG

Applicant's Name : Shenzhen AoMeiRui Lighting Co.,Ltd

Address A231, Building 1, Hongpai Industrial Park, Qiaotou Community, Fuhai

Street, Bao'an District, Shenzhen City, Guangdong Province, China

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

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

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

Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : November 21, 2024

Date of Test : November 21, 2024 to November 29, 2024

Data of Issue : November 29, 2024

Result : Pass

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Apply for company information

Applicant's Name	:	Shenzhen AoMeiRui Lighting Co.,Ltd
Address	:	A231, Building 1, Hongpai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China
Product Name	:	Microphone
Test Model(s)		K66DG
Series Model(s)	4	k66dg-us, k66dg-ca, k66dg-jp, k66dg-eu
Test Specification Standard(s)	Ŧ	47 CFR Part 15.247

NOTE1:

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

Compiled by:

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November 29, 2024

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November 29, 2024

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November 29, 2024

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DAG

Report No.: DACE241121022RL002

Revision History Of Report

Version Description		Description REPORT No.	
V1.0	Original	DACE241121022RL002	November 29, 2024
	1	2	

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DAG

CONTENTS

1 TEST SUMMARY	6	
1.1 TEST STANDARDS		
1.2 SUMMARY OF TEST RESULT		
2 GENERAL INFORMATION		
2.1 CLIENT INFORMATION		
2.2 DESCRIPTION OF DEVICE (EUT)*		
2.3 DESCRIPTION OF TEST MODES		
2.4 DESCRIPTION OF SUPPORT UNITS	o 8	
2.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY	10	
2.7 AUTHORIZATIONS		
2.8 ANNOUNCEMENT	10	
3 EVALUATION RESULTS (EVALUATION)	11	
3.1 ANTENNA REQUIREMENT	11	
3.1.1 Conclusion:	11	
4 RADIO SPECTRUM MATTER TEST RESULTS (RF)	12	
4.1 CONDUCTED EMISSION AT AC POWER LINE	12	
4.1.1 E.U.T. Operation:		
4.1.2 Test Setup Diagram:	12	
4.1.3 Test Data:	13	
4.2 6DB BANDWIDTH	15	
4.2.1 E.U.T. Operation:	15	
4.2.1 E.U.T. Operation:	15	
4.2.3 Test Data:	15	
4.3 MAXIMUM CONDUCTED OUTPUT POWER		
4.3.1 E.U.T. Operation:	16	
4.3.2 Test Setup Diagram:		
4.3.3 Test Data:		
4.4 Power Spectral Density		
4.4.1 E.U.T. Operation:		
4.4.2 Test Setup Diagram:		
4.4.3 Test Data:	18	
4.5 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS		
4.5.1 E.U.T. Operation:		
4.5.2 Test Setup Diagram:		
4.5.3 Test Data:		
4.6 BAND EDGE EMISSIONS (RADIATED)		
4.6.1 E.U.T. Operation:		
4.6.2 Test Setup Diagram:		
4.6.3 Test Data:		
4.7 EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)		
4.7.1 E.U.T. Operation:		
4.7.2 Test Setup Diagram: 4.7.3 Test Data:		
4.8 EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)		
4.8.1 E.U.T. Operation:	∠ŏ <u>—</u>	





DAG

4.8.2 Test Setup Diagram:	28
4.8.3 Test Data:	29
5 TEST SETUP PHOTOS	32
6 PHOTOS OF THE EUT	
APPENDIX	34
16pB Bandwidth	34
2. 99% OCCUPIED BANDWIDTH	
3. PEAK OUTPUT POWER	38
4. POWER SPECTRAL DENSITY	
5. BANDEDGE	
6. Spurious Emission	44

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DAG



TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

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

1.2 Summary of Test Result

Item	Method	Requirement	Result
Antenna requirement	1	47 CFR 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2013 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non- restricted frequency bands	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	ANSI C63.10-2013 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)	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)	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

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

2. RF-conducted test results including cable loss.

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2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen AoMeiRui Lighting Co.,Ltd

Address : A231, Building 1, Hongpai Industrial Park, Qiaotou Community, Fuhai Street,

Bao'an District, Shenzhen City, Guangdong Province, China

Manufacturer : Shenzhen AoMeiRui Lighting Co.,Ltd

Address : A231, Building 1, Hongpai Industrial Park, Qiaotou Community, Fuhai Street,

Bao'an District, Shenzhen City, Guangdong Province, China

2.2 Description of Device (EUT)*

Product Name:	Microphone
Model/Type reference:	K66DG
Series Model:	k66dg-us, k66dg-ca, k66dg-jp, k66dg-eu
Model Difference:	The internal electrical structure and circuit board of these models are the same, only the names are different.
Trade Mark:	ZealSound
Product Description:	Microphone
Power Supply:	DC3.7V from battery; charging by DC5.0V from Type-C port
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	PCB ANTENNA
Antenna Gain:	2.5dBi
Hardware Version:	V1.0
Software Version:	V1.1.1

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

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

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Toot channel	Frequency (MHz)
Test channel	BLE
Lowest channel	2402MHz
Middle channel	2440MHz
Highest channel	2480MHz

2.3 Description of Test Modes

No	Title	Description
TM1	TX mode	Keep the EUT continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
Test so	oftware:	
com COMI when the control frequency ty Channel TX Power RX Gain Role TX type RX type	5200 ▼ 1 ST	ay Clear
COM1 have or	oen .	

2.4 Description of Support Units

Title Manufacturer		Model No.	NOTE	
ADAPTER PHOTON		ATXC-069AC65B	Provide by lab	

2.5 Equipments Used During The Test

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

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Emissions in non-restricted frequency bands 6dB Bandwidth

Maximum Conducted Output Power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information	RTS-01	V1.0.0	1	1
RF Sensor Unit	Tachoy Information	TR1029-2	000001	1	16
Vector Signal Generator	Keysight N5181A		MY50143455	2023-12-11	2024-12-10
Signal Generator	Keysight	N5182A	MY48180415	2023-12-12	2024-12-11
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

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

Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	1	/
Positioning Controller	MF	MF-7802	1	16	1
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13
Cable(LF)#2	Schwarzbeck		/	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	7	/	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	1	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2024-06-12	2025-06-11
Test Receiver	R&S ESCI 3		1166.5950K03 -101431-Jq	2024-06-13	2025-06-12
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

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2.6 Statement Of The Measurement Uncertainty

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 uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.7 Authorizations

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.			
Address:	102, Building H1 & 1/F, Building H, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China			
Phone Number:	+86-13267178997			
Fax Number:	86-755-29113252			

Identification of the Responsible Testing Location

<u> </u>						
Company Name:	Shenzhen DACE Testing Technology Co., Ltd.					
Address:	102, Building H1 & 1/F, Building H, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China					
Phone Number:	+86-13267178997					
Fax Number:	86-755-29113252					
FCC Registration Number:	0032847402					
Designation Number:	CN1342					
Test Firm Registration No.:	778666					
A2LA Certificate Number:	6270.01					

2.8 Announcement

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

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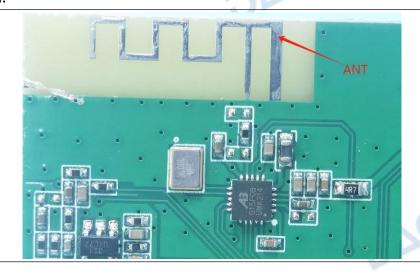
3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:



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4 Radio Spectrum Matter Test Results (RF)

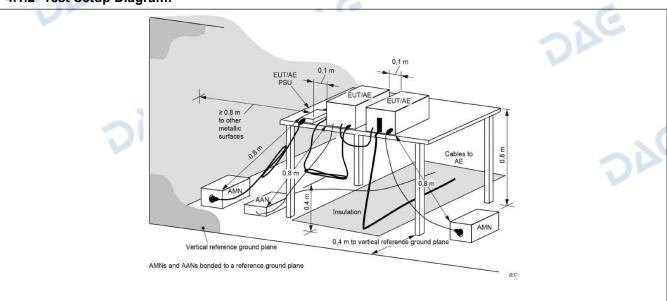
4.1 Conducted Emission at AC power line

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

4.1.1 E.U.T. Operation:

Operating Envir	onment:		20		4	C
Temperature:	0 °C		Humidity:	0 %	Atmospheric Pressure:	0 kPa
Pretest mode:		TM1				
Final test mode		TM1				

4.1.2 Test Setup Diagram:



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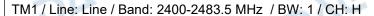
Tel: +86-755-23010613

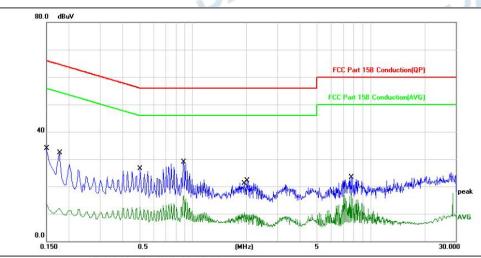
E-mail: service@dace-lab.com

Page 12 of 46



4.1.3 Test Data:



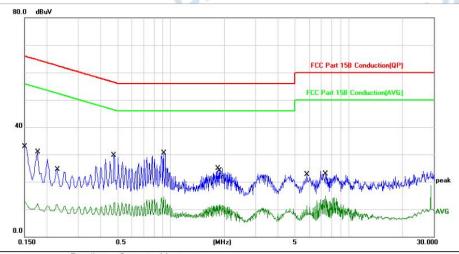


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	23.82	10.13	33.95	65.99	-32.04	QP	
2		0.1500	3.64	10.13	13.77	55.99	-42.22	AVG	
3		0.1780	22.18	10.12	32.30	64.57	-32.27	QP	
4		0.1780	1.86	10.12	11.98	54.57	-42.59	AVG	
5		0.5060	16.40	10.09	26.49	56.00	-29.51	QP	
6		0.5060	2.44	10.09	12.53	46.00	-33.47	AVG	
7	*	0.8860	18.82	10.10	28.92	56.00	-27.08	QP	
8		0.8860	6.53	10.10	16.63	46.00	-29.37	AVG	
9		1.9460	0.57	10.00	10.57	46.00	-35.43	AVG	
10		2.0220	12.07	10.00	22.07	56.00	-33.93	QP	
11		7.7500	12.99	10.24	23.23	60.00	-36.77	QP	
12		7.7500	7.44	10.24	17.68	50.00	-32.32	AVG	

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TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	22.85	10.13	32.98	65.99	-33.01	QP	
2	0.1500	2.60	10.13	12.73	55.99	-43.26	AVG	
3	0.1780	20.85	10.12	30.97	64.57	-33.60	QP	
4	0.2300	1.61	10.10	11.71	52.45	-40.74	AVG	
5	0.4780	19.67	10.09	29.76	56.37	-26.61	QP	
6	0.4820	2.31	10.09	12.40	46.30	-33.90	AVG	
7 *	0.9100	20.39	10.10	30.49	56.00	-25.51	QP	
8	0.9100	4.30	10.10	14.40	46.00	-31.60	AVG	
9	1.8460	14.94	10.01	24.95	56.00	-31.05	QP	
10	1.8700	1.68	10.01	11.69	46.00	-34.31	AVG	
11	5.8100	12.48	10.20	22.68	60.00	-37.32	QP	
12	7.4020	4.58	10.23	14.81	50.00	-35.19	AVG	

NOTE:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement

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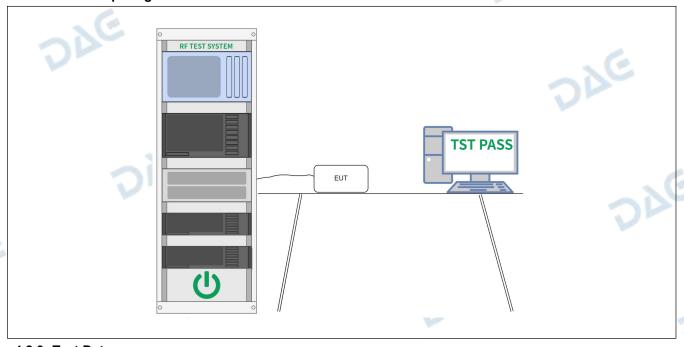
4.2 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.2.1 E.U.T. Operation:

Operating Environment:						
Temperature:	0 °C		Humidity:	0 %	Atmospheric Pressure: 0 kPa	
Pretest mode:		TM1	70		. 6	
Final test mode:		TM1	V			

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

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Page 15 of 46



4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

Report No.: DACE241121022RL002

4.3.1 E.U.T. Operation:

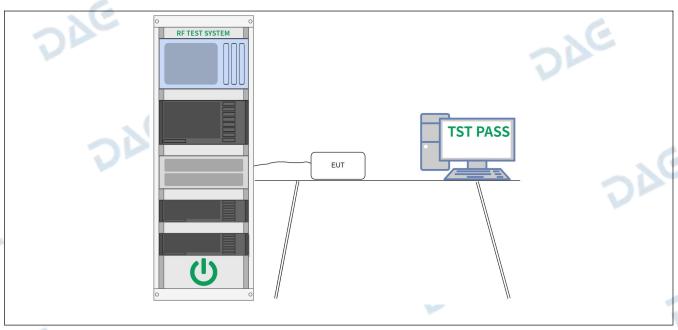
Operating Envir	onment:					Y.C.		
Temperature:	0 °C		Humidity:	0 %	6	Atmospheric Pressure:	0 kPa	- >(
Pretest mode:		TM1		•			•	OP
Final test mode:		TM1						

4.3.2 Test Setup Diagram:

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Page 16 of 46







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4.3.3 Test Data:

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Please Refer to Appendix for Details.

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4.4 Power Spectral Density

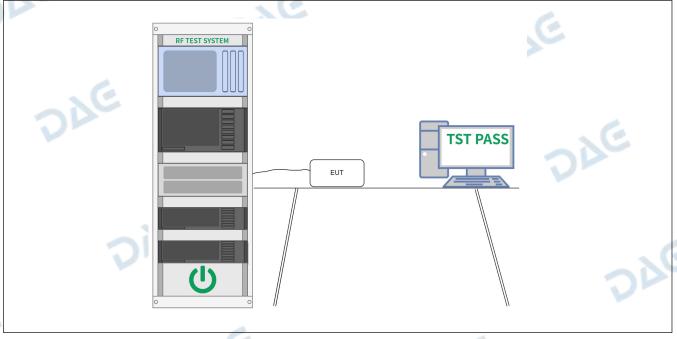
Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

Report No.: DACE241121022RL002

4.4.1 E.U.T. Operation:

Operating Environment:								
Temperature:	0 °C		Humidity:	0 %	Atmospheric Pressure:	0 kPa		
Pretest mode:		TM1			V	4		
Final test mode:		TM1						

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

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Page 18 of 46



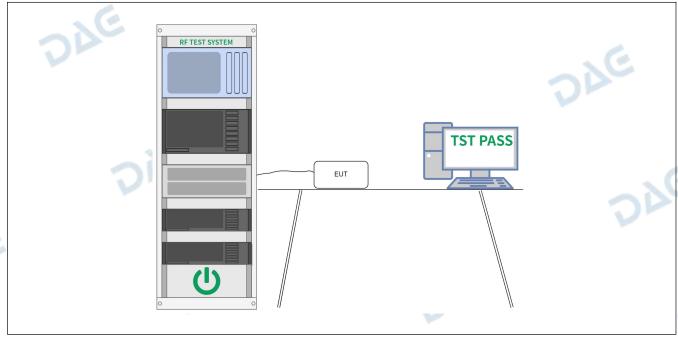
4.5 Emissions in non-restricted frequency bands

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 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.5.1 E.U.T. Operation:

Operating Environment:								
Temperature:	0 °C		Humidity:	0 %	Atmospheric Pressure:	0 kPa		
Pretest mode: TM1		TM1	1			Co		
Final test mode: TM1		TM1	V		200			

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

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4.6 Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defi	(d), In addition, radiated emission ned in § 15.205(a), must also cor I in § 15.209(a)(see § 15.205(c)).	mply with the radiated					
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
	88-216	150 **	3					
	216-960	200 **	3					
,	Above 960	500	3					
VE.	radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands and 15.241. In the emission table about the emission limits show the employing a CISPR quarter of the statement of the emission limits.	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						
Test Method:	ANSI C63.10-2013 sect KDB 558074 D01 15.24	ion 6.10 7 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2013 sect	ion 6.10.5.2	.e					

Report No.: DACE241121022RL002

4.6.1 E.U.T. Operation:

Operating Environment:									
Temperature:	0 °C		Humidity:	0 %	Atmospheric P	ressure:	0 kPa		
Pretest mode:		TM1			. 6				
Final test mode:		TM1			276				

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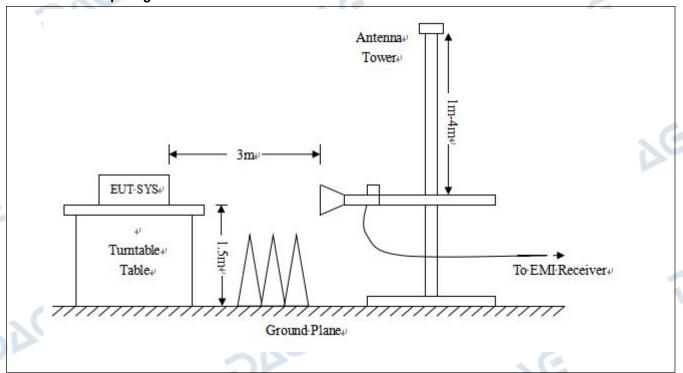
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Page 20 of 46





4.6.2 Test Setup Diagram:

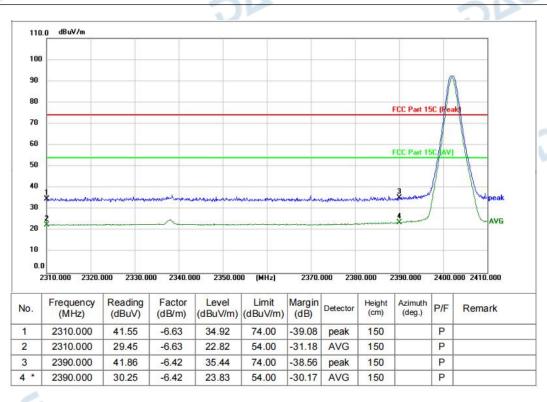


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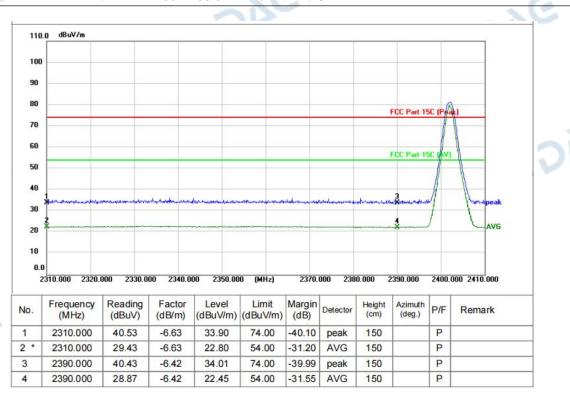


4.6.3 Test Data:

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

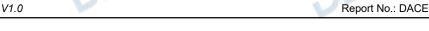


TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

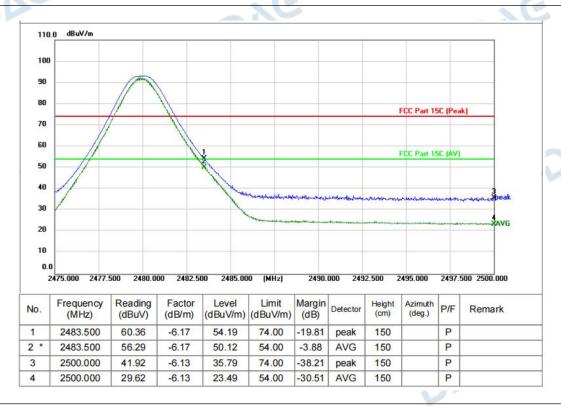


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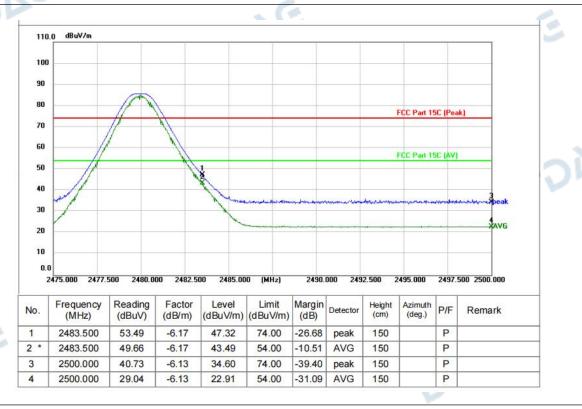
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TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



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



Remark:Margin=Level - Limit, Level=Test receiver reading + correction factor Correction Factor = Antenna Factor + Cable loss - Pre-amplifier

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

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4.7 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 radia 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					
Ve	and 15.241. In the emission table The emission limits s employing a CISPR of 110–490 kHz and abo	above, the tighter limit appl hown in the above table are quasi-peak detector except	e based on measurements for the frequency bands 9–90 kHz, mission limits in these three bands					
Test Method:	ANSI C63.10-2013 s KDB 558074 D01 15	ection 6.6.4 .247 Meas Guidance v05r0	2					
Procedure:	above the ground at a 360 degrees to deter b. For above 1GHz, the above the ground at a degrees to determine c. The EUT was set 3 which was mounted of the antenna heigh determine the maxim polarizations of the analysis e. For each suspected the antenna was tuned below 30MHz, the analysis was turned from 0 def. The test-receiver synamical Bandwidth with Maxing. If the emission lever specified, then testing reported. Otherwise the tested one by one us reported in a data ship. Test the EUT in the	a 3 or 10 meter semi-anechmine the position of the higher EUT was placed on the a 3 meter fully-anechoic chapter the position of the highest 3 or 10 meters away from the top of a variable-height is varied from one meter the turn value of the field streng antenna are set to make the ded to heights from 1 meter that the top of a variable-height is varied from one meter the turn walue of the EUT was also ded to heights from 1 meter that the top of a variable to heights from 1 meter that the was tuned to heights agrees to 360 degrees to finguished was set to Peak Determine Hold Mode. The emissions that did not he had been to the emissions that did not he had been to the emissions that did not he had been to the emissions that did not he had been to the emissions that did not he had been to the emissions that did not he had been to the emissions that did not he had been to the emissions that did not he had been to the middle entry the entry the middle entry the entry the middle entry the middle entry the entry t	top of a rotating table 1.5 meters amber. The table was rotated 360 radiation. The interference-receiving antenna, in the interference-receiving antenna, in the interference-receiving antenna, in the interference-receiving antenna, in the interference above the ground to outh. Both horizontal and vertical measurement. Tranged to its worst case and then to 4 meters (for the test frequency of 1 meter) and the rotatable table of the maximum reading. The interference-receiving antenna, in the interference in the interferen					
	 i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report. 							

Report No.: DACE241121022RL002

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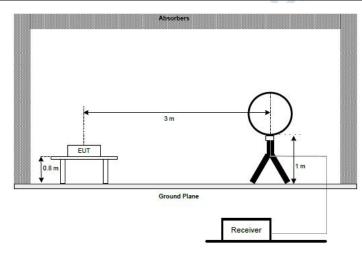


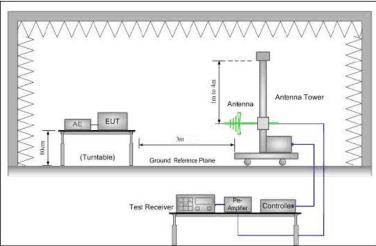
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

Operating Environment:								
Temperature:	0 °C		Humidity:	0 %	Atmospheric Pressure:	0 kPa		
Pretest mode:		TM1	C					
Final test mode:	1	TM1			· (e			

4.7.2 Test Setup Diagram:

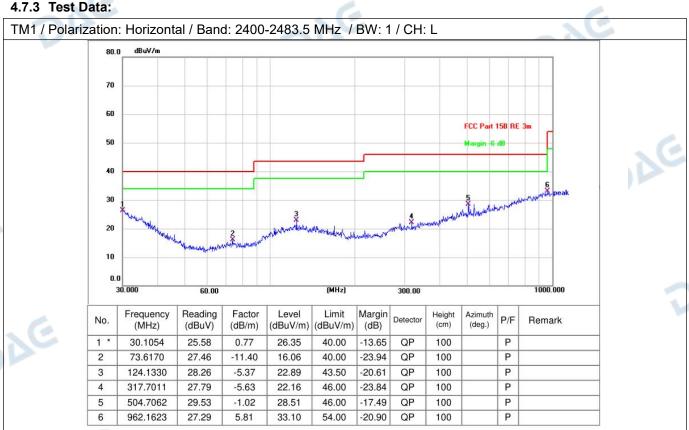


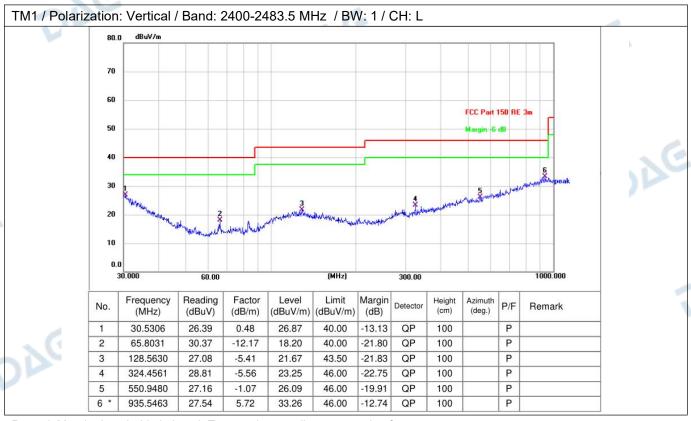


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V1.0





Remark:Margin=Level - Limit, Level=Test receiver reading + correction factor

Correction Factor = Antenna Factor + Cable loss - Pre-amplifier

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

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DAG

Report No.: DACE241121022RL002

4.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	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					
	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 secti	ion 6.6.4						
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-							
	tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.							

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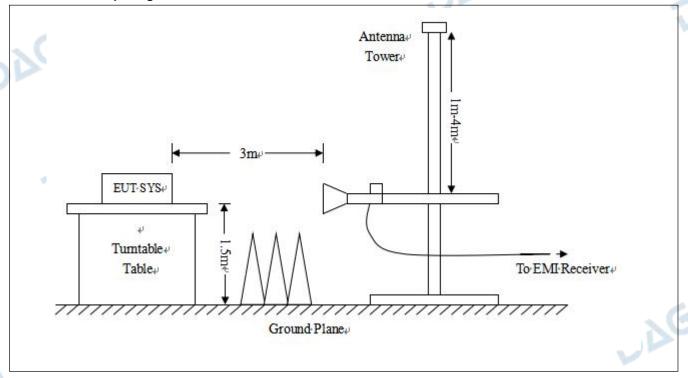


- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.8.1 E.U.T. Operation:

Operating Environment:								
Temperature:	0 °C		Humidity:	0 %	Atmospheric Pressure:	0 kPa		
Pretest mode:		TM1	C					
Final test mode: TM1				16				

4.8.2 Test Setup Diagram:

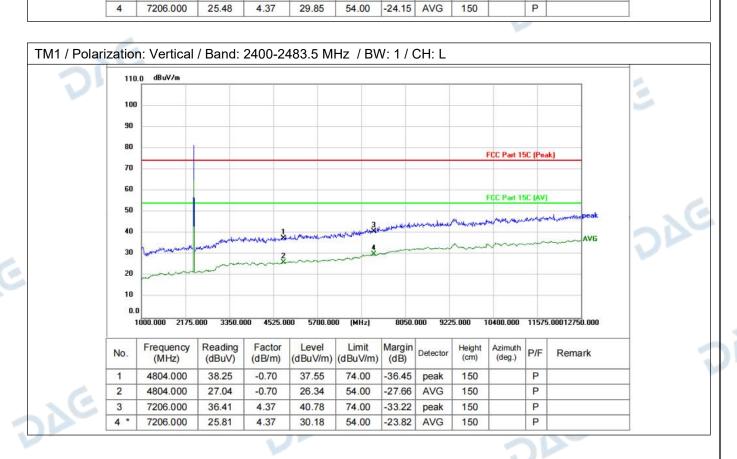


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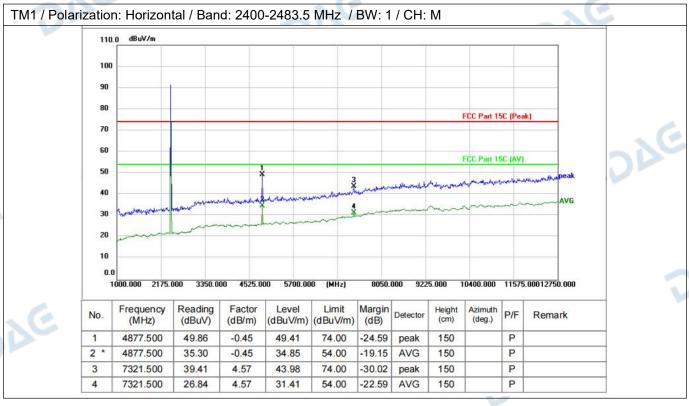


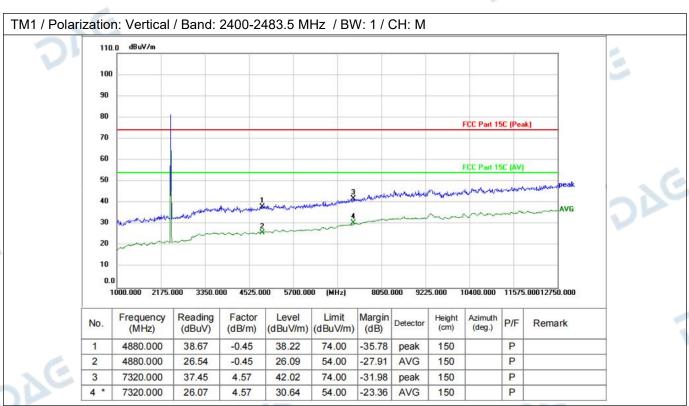
4.8.3 Test Data: TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L 110.0 dBuV/m 100 90 80 FCC Part 15C (Peak) 70 FCC Part 15C (AV) 50 40 20 10 10400.000 11575.00012750.000 1000.000 2175.000 3350.000 4525.000 5700.000 8050.000 9225.000 Frequency (MHz) Reading Margin Factor Level Limit Height (cm) Azimuth Detector P/F Remark (deg.) (dBuV) (dBuV/m) (dBuV/m) (dB/m) (dB) 1 4807.000 47.06 -0.69 46.37 74.00 -27.63 peak 150 P 2 * 4807.000 32.19 -0.69 31.50 54.00 -22.50 **AVG** 150 P 3 7206.000 36.11 4.37 40.48 74.00 -33.52 150 P peak

Report No.: DACE241121022RL002



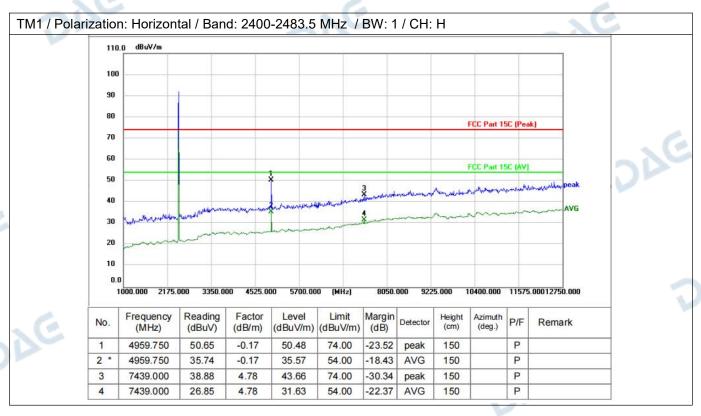


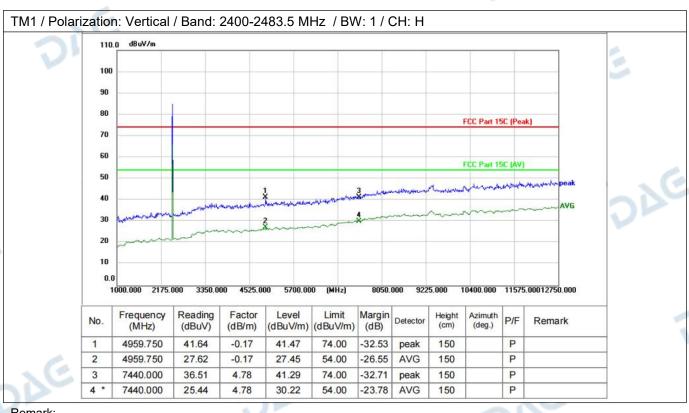






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Remark:

Margin=Level - Limit, Level=Test receiver reading + correction factor

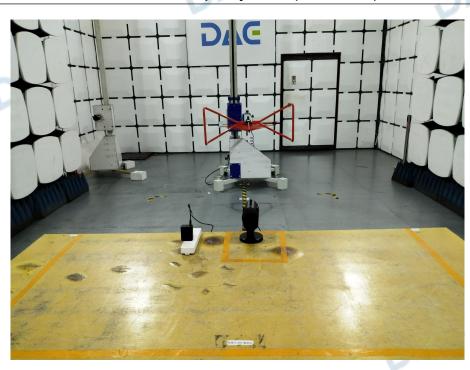
Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

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

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5 TEST SETUP PHOTOS

Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)





Conducted Emission at AC power line



6 PHOTOS OF THE EUT

Please Refer to report DACE241121022RL001 for Details.

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Page 33 of 46

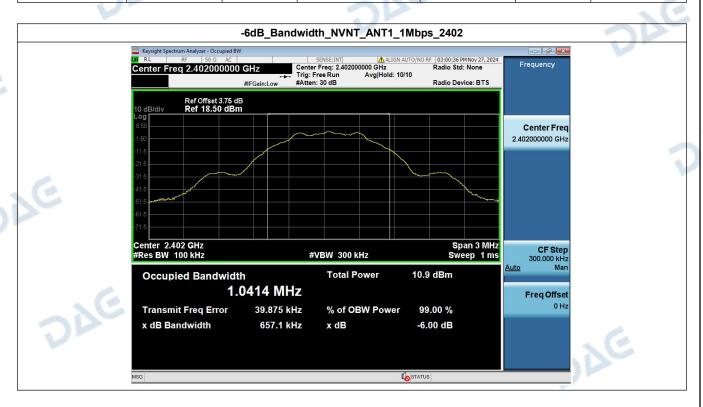


Appendix

1. -6dB Bandwidth

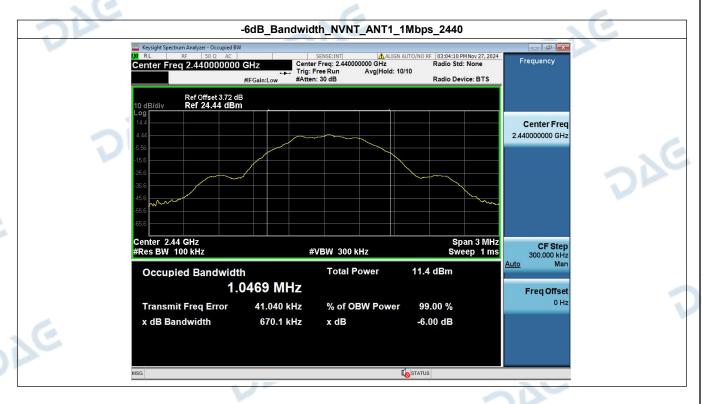
DAG

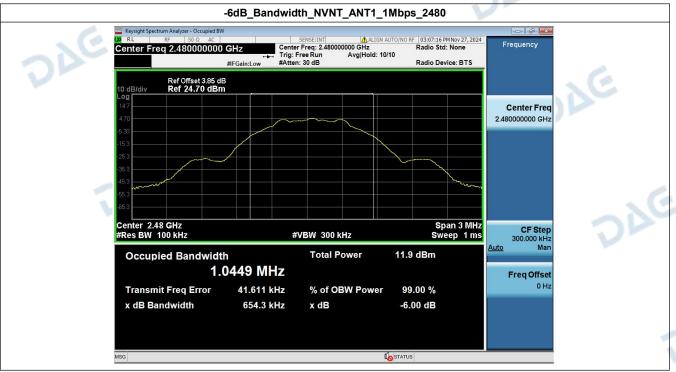
Condition	Antenna Rate		ate Frequency (MHz) -6dB BW(kHz		limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	657.12	500	Pass
NVNT	ANT1	1Mbps	2440.00	670.10	500	Pass
NVNT	ANT1	1Mbps	2480.00	654.31	500	Pass



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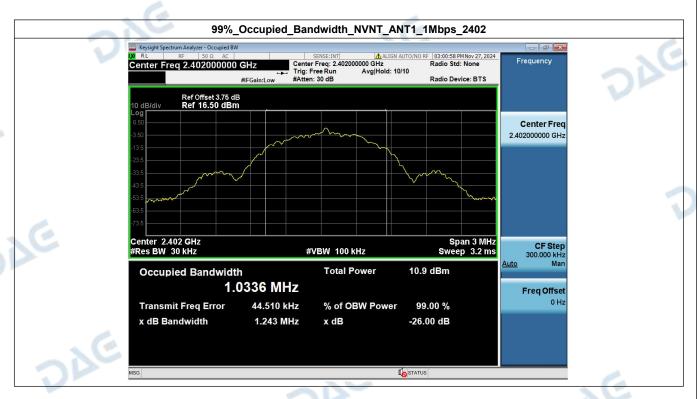
E-mail: service@dace-lab.com

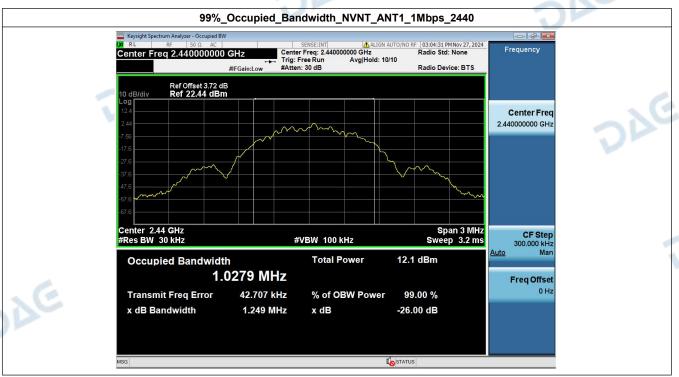
Page 35 of 46



99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99%%BW(MHz)	
NVNT	ANT1	1Mbps	2402.00	1.034	
NVNT	ANT1	1Mbps	2440.00	1.028	
NVNT	ANT1	1Mbps	2480.00	1.032	





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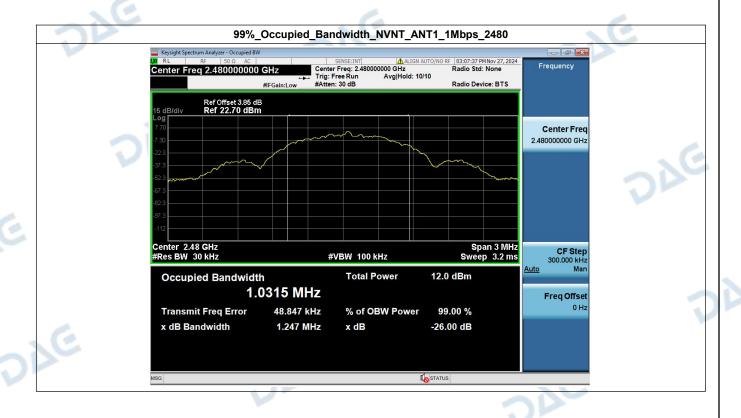
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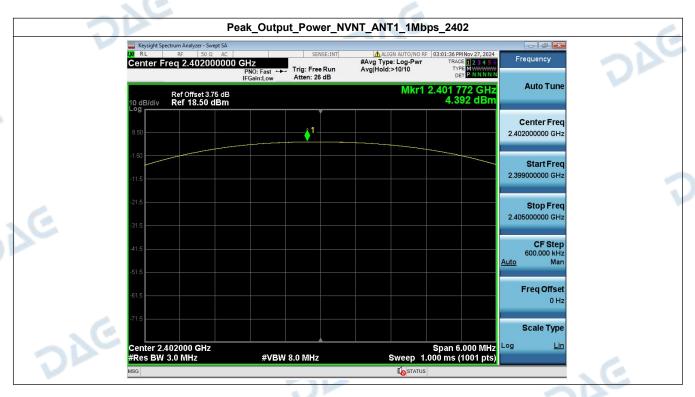


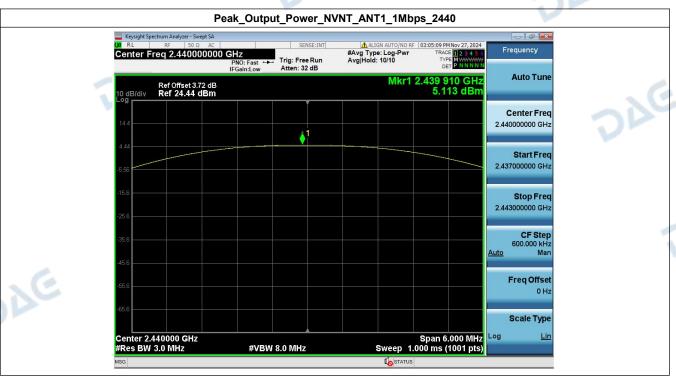
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Peak Output Power

Condition	Antenna	Rate Frequency Max. Conducted Max. Conducted Power(dBm) Power(mW)		Limit(mW)	Result		
NVNT	ANT1	1Mbps	2402.00	4.39	2.75	1000	Pass
NVNT	ANT1	1Mbps	2440.00	5.11	3.25	1000	Pass
NVNT	ANT1	1Mbps	2480.00	5.41	3.47	1000	Pass





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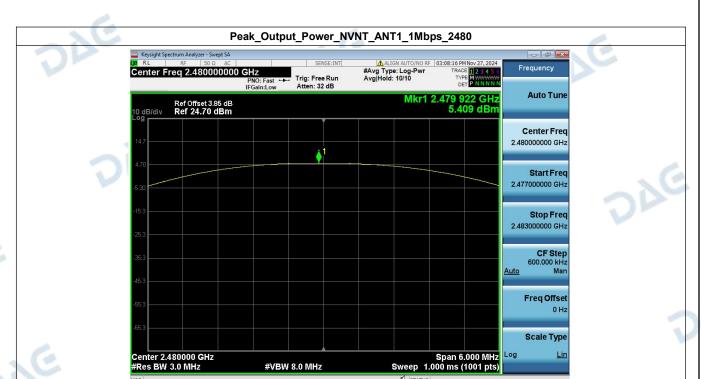


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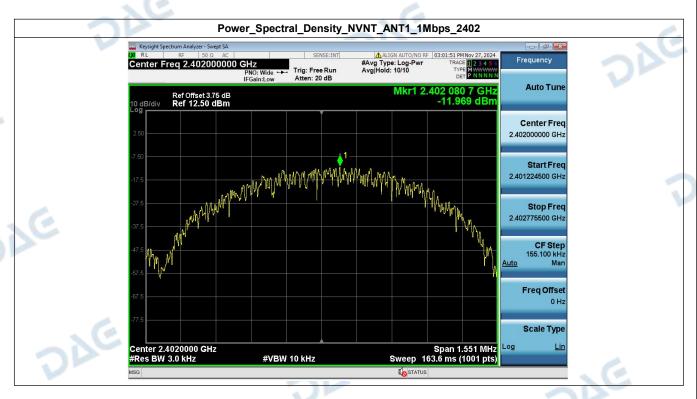
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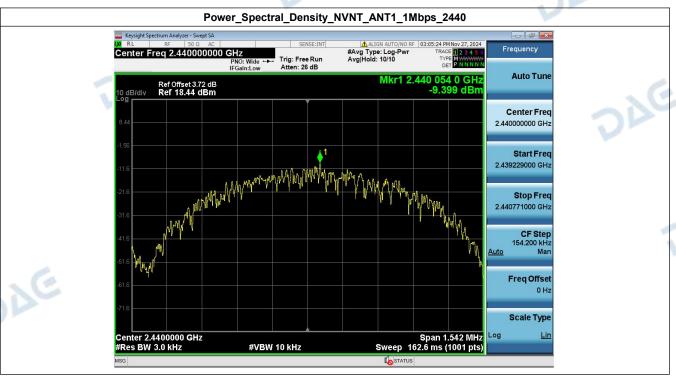
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4. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-11.97	8	Pass
NVNT	ANT1	1Mbps	2440.00	-9.40	8	Pass
NVNT	ANT1	1Mbps	2480.00	-9.64	8	Pass





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Report No.: DACE241121022RL002



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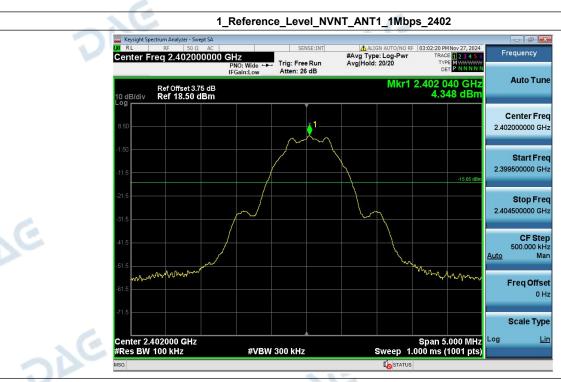
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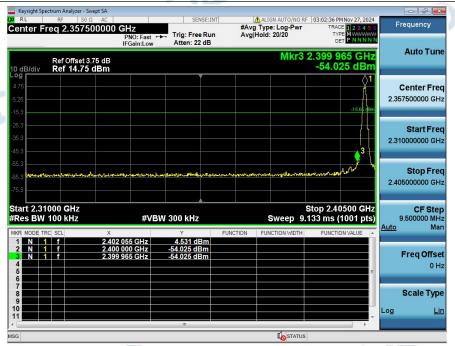
V1.0

Bandedge

Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	-54.025	-15.652	Pass
NVNT	ANT1	1Mbps	2480.00	2486.750	-55.232	-14.656	Pass



2_Bandedge_NVNT_ANT1_1Mbps_2402

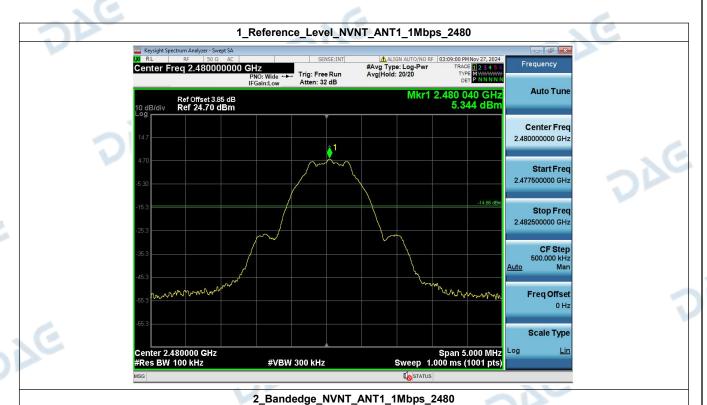


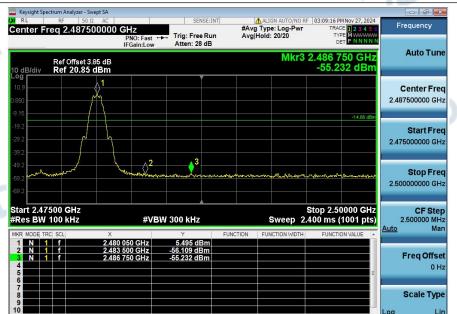
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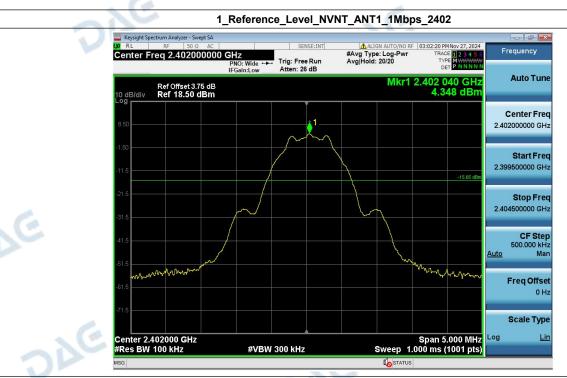
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6. Spurious Emission

V1.0

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402.00	-47.508	-15.652	Pass
NVNT	ANT1	1Mbps	2440.00	-40.819	-14.924	Pass
NVNT	ANT1	1Mbps	2480.00	-40.998	-14.656	Pass





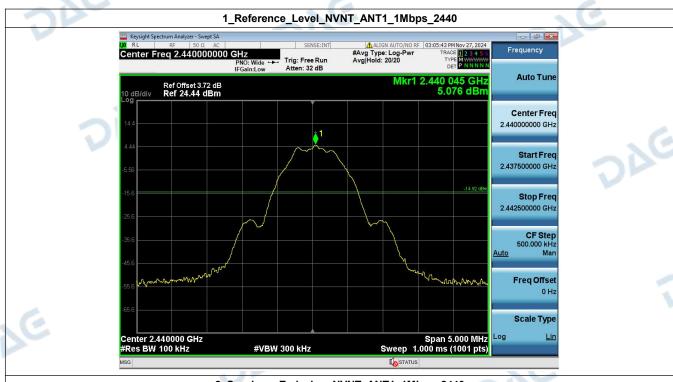


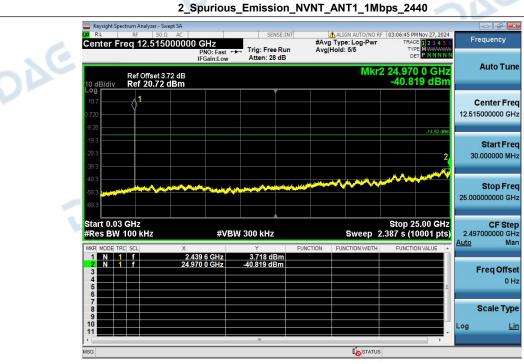
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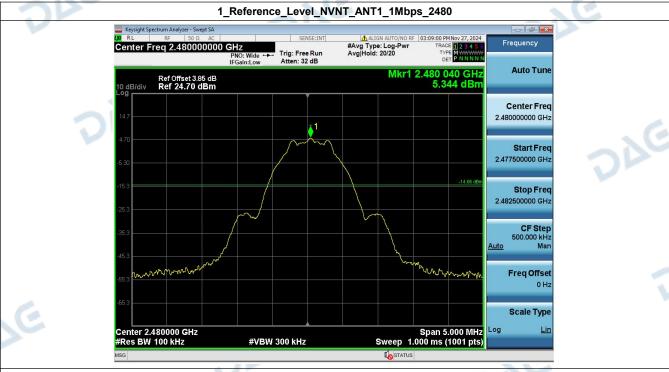
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