| DAG | DE | Report No.: DACE240904003RF001 |
|---------------------------------|--|--|
| 2r | | ORT |
| | erican Technology Net oduct Name: Laser Ra Test Model(s).: ABL | ngefinder |
| | | |
| Report Reference No. | : DACE240904003RF001 : 2BKIH-ABL | DAC |
| Applicant's Name | : American Technology Network | corp |
| Address | : 2400 NW 95th Avenue, Doral, I | FL 33172 USA |
| Testing Laboratory Address | | nology Co., Ltd. ng H, Hongfa Science & Technology Park, odistrict, Bao'an District, Shenzhen, |
| Test Specification Standard | 47 CFR Part 15.247 C63.10:2013 & KDB558074 D | 01 15.247 Meas Guidance v05r02 |
| Date of Receipt | : September 4, 2024 | |
| Date of Test | : September 4, 2024 to October | |
| Data of Issue Result | : October 17, 2024 : Pass | |
| Testing Technology Co., Ltd. Th | hall be noted in the revision section of | written approval of Shenzhen DACE ed by Shenzhen DACE Testing Technology f the document. The test results in the |
| | | |

Report No.: DACE240904003RF001

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Revision History Of Report

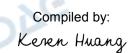
| Version Description | | REPORT No. | Issue Date | | |
|---------------------|----------|--------------------|------------------|--|--|
| V1.0 | Original | DACE240904003RF001 | October 17, 2024 | | |
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NOTE1:

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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.



Keren Huang/Test Engineer

Supervised by: Shone Im

Stone Yin/ projector Engineer

Approved by:

Tomchen

Tom Chen / Manager

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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 | 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) | N/A |
| Occupied 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 |

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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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| ο <u>λ</u> ε - | V1.0 | 2 | | | Re | port No.: DACI | 5240904003RF00 ² |
|---------------------|---------------|--|--------------------------------|--------------|-----------------|----------------|-----------------------------|
| | RAL INFO | ORMAT | ION | | | | |
| Applicant | t's Name | : Americar | n Technology Ne | twork corp | | | |
| Address | | : 2400 NW | 95th Avenue, D | Ooral, FL 33 | 172 USA | | |
| Manufactor | | | lua Orata ala atao a | | | | |
| Manufact Address | urer | | ks Optoelectron | | | | |
| Audress | | F10, No.3 Guangdo | 3 Bldg, Dushi Zh | nigu, 19th . | JinPeng Rd, Fe | nggang , D | Dongguan, |
| | | Guanguo | ing | | | | |
| 2.2 Descript | tion of Devi | ce (EUT)* | | | | | |
| Product N | _ | Laser Rang | efinder | | . 6 | | |
| | be reference: | ABL1000 | | | 200 | | |
| Series Mo | | ABL1500 | | | | | |
| Model Diff | ference: | The built-in distance is o | circuits and PCI different. | 3s of the tw | o models are th | e same, but | t the testing |
| Trade Mai | ſk: | ATN 🔄 | C | | | | |
| Product D | escription: | Laser Rang | efinder | | | 10 | |
| Power Su | pply: | DC3.0V fro | m battery | | | | |
| Operation | Frequency: | 2402MHz to | 2480MHz | | V | | |
| Number o | f Channels: | 40 | | | | | |
| Modulatio | n Type: | GFSK | 6 | | | | |
| Antenna T | уре: | PCB ANTER | NNA | | | | C |
| Antenna C | Gain: | 5.3dBi | | | | | |
| Hardware | Version: | V4.0 | | | | | |
| Software | Version: | V1.0 | | | | | |
| | . (| | | | | | |
| Operation | n Frequency e | ach of chan | nel | | | | |
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 11 | 2422MHz | 21 | 2442MHz | 31 | 2462MHz |
| 2 | 2404MHz | 12 | 2424MHz | 22 | 2444MHz | 32 | 2464MHz |

| 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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| Test shannel | Frequency (MHz) |
|-----------------|-----------------|
| Test channel | BLE |
| Lowest channel | 2402MHz |
| Middle channel | 2440MHz |
| Highest channel | 2480MHz |
| | |

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2.3 Description of Test Modes

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| No | Title | Description |
|-----|---------|---|
| TM1 | TX mode | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel. |

2.4 Description of Support Units

The EUT was tested as an independent device.

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 Attenuation | 561-G071 | 2023-12-12 | 2024-12-11 | | | |
| 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | / | / | | | |
| Test Receiver | Rohde & Schwarz | ESPI TEST RECEIVER | ID:1164.6607K 03-102109- MH | 2024-06-12 | 2025-06-11 | | | |
| L.I.S.N | R&S | ESH3-Z5 | 831.5518.52 | 2023-12-12 | 2024-12-11 | | | |
| 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 | | | | |

Occupied Bandwidth Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-------------------|--------------|----------|--------------|------------|--------------|
| RF Test Software | TACHOY | RTS-01 | V1.0.0 | 1 | / |
| RF Sensor Unit | TACHOY | TR1029-2 | 000001 | 1 | / |
| Signal Generator | Keysight | N5181A | MY48180415 | 2023-11-09 | 2024-11-08 |
| Signal Generator | Keysight | N5182A | MY50143455 | 2023-11-09 | 2024-11-08 |
| Spectrum Analyzer | Keysight | N9020A | MY53420323 | 2023-12-12 | 2024-12-11 |

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DAG

| Band edge emissions Emissions in frequenc Emissions in frequenc | y bands (below 10 | | | ad | E |
|---|-------------------|------------------|----------------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test software | Farad | EZ -EMC | V1.1.42 | / | 1 |
| Positioning Controller | | MF-7802 | | / | 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 | 1 | / | 2024-02-19 | 2025-02-18 |
| Cable(LF)#1 | Schwarzbeck | / | 1 | 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 | | 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 | 2023-05-21 | 2025-05-20 |

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 |
| RF power density | ±0.234% |
| Conducted Spurious emissions | ±1.98dB |
| Radiated Emission (Above 1GHz) | ±5.46dB |
| Radiated Emission (Below 1GHz) | ±5.79dB |
| Note: (1) This uncertainty represents an expanded u confidence level using a coverage factor of k=2. | ncertainty expressed at approximately the 95% |

2.7 Authorizations

| Company Name: | Shenzhen DACE Testing Technology Co., Ltd. |
|---------------|--|
| Address: | 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |
| | 6 |

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Tel: +86-755-23010613

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

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Identification of the Responsible Testing Location

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

2.8 Announcement

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(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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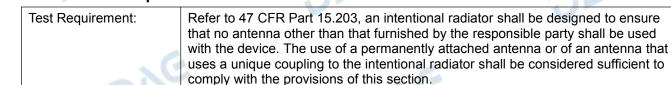
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Evaluation Results (Evaluation) 3

3.1 Antenna requirement



3.1.1 Conclusion:

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Radio Spectrum Matter Test Results (RF) 4

4.1 Conducted Emission at AC power line

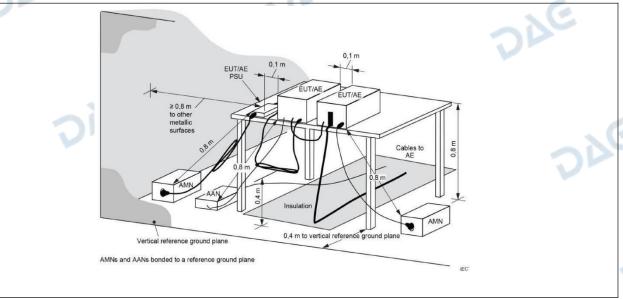
| Test Requirement: | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, 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) | 2 | | | | |
| | | 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:

DAC

| Operating Envir | onment: | | - DP | | | e |
|------------------|---------|-----|-----------|------|-----------------------|---------|
| Temperature: | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode: | | TM1 | | | V | |
| Final test mode: | | TM1 | | | | |

4.1.2 Test Setup Diagram:



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4.1.3 Test Data:

N/A (Not applicable to this device, it is battery powered)

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4.2 Occupied Bandwidth

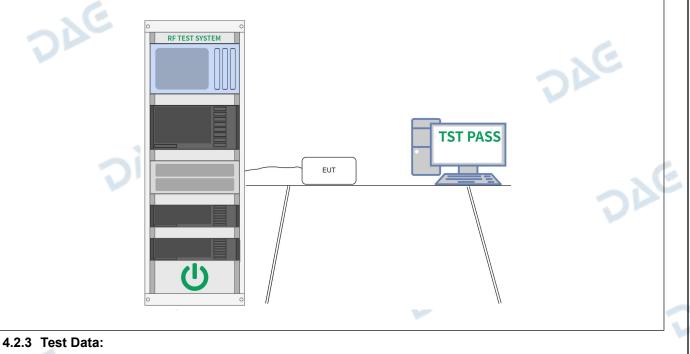
DAC

| 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 Envir | onment: | | | | | |
|-----------------|---------|-----|-----------|------|-----------------------|---------|
| Temperature: | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode: | | TM1 | 20 | | | 6 |
| Final test mode | : | TM1 | V | | | |
| 4.0.0 Teat Cat | | | | | | |

4.2.2 Test Setup Diagram:



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Please Refer to Appendix for Details.

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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. (alculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi) |

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4.3.1 E.U.T. Operation:

| Operating Enviro | onment: | | | | NC. | | |
|------------------|---------|-----|-----------|------|-----------------------|---------|-----------|
| Temperature: | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa | ~ ~ |
| Pretest mode: | | TM1 | | • | | • | NC |
| Final test mode: | | TM1 | | | | | |

4.3.2 Test Setup Diagram:

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| DAC | V1.0 | Report No.: DACE240904003RF001 |
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| DAG | O O | DIE |
| e Di | | EUT |
| 4.3.3 Test Data: Please Refer to App | • • • • | DIE |
| | | |
| | | |
| | | |
| 102, Building H1, & 1/F., Buildin | ng H, Hongfa Science & Technology Park, Tang | tou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China |

Report No.: DACE240904003RF001

4.4 Power Spectral Density

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| 4.4.1 E.U.T. Operation: | |
|-------------------------|---|
| Procedure: | ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission |
| Test Method: | ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| 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 Requirement: | 47 CFR 15.247(e) |
| | |

6

4.4.1 E.U.T. Operation:

| Operating Envir | onment: | J | | | . 6 | |
|------------------|---------|-----|-----------|------|-----------------------|---------|
| Temperature: | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode: | | TM1 | | | | |
| Final test mode: | | TM1 | | | | |

4.4.2 Test Setup Diagram:

| 4.4.2 Test Setup Diagram: | | | |
|--|---|--|----------------------|
| | RF TEST SYSTEM | | E |
| DAC | | TST PASS | DAG |
| | | | DAG |
| 4.4.3 Test Data: Please Refer to Appendix fo | r Details. | DAG | |
| | | | |
| 102, Building H1, & 1/F., Building H, Hongfa | a Science & Technology Park, Tangtou Connunity, Shiya | n Subdistrict, Bao'an District, Shenzh | en, Guangdong, China |

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4.5 Emissions in non-restricted frequency bands

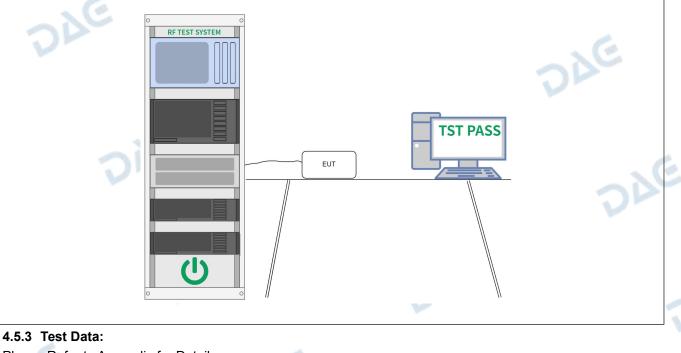
| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced 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:

DAG

| Operating Environment: | | | | | | |
|------------------------|-------|-----|-----------|------|-----------------------|---------|
| Temperature: | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode: | | TM1 | 20 | | | 6 |
| Final test mode: T | | TM1 | V | | | |
| 4 5 0 Tast Osta | | | | | | |

4.5.2 Test Setup Diagram:



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Please Refer to Appendix for Details.

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e

4.6 Band edge emissions (Radiated)

DγG

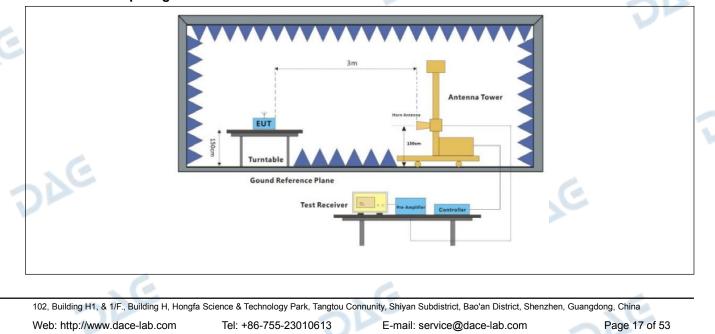
| Test Requirement: | | (d), In addition, radiated emissio | |
|------------------------|---|--|--|
| | | ined in § 15.205(a), must also co 1 in § 15.209(a)(see § 15.205(c)) | |
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| 20 | 0.009-0.490 | 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 | radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands and 15.241. In the emission table ab The emission limits sho employing a CISPR qua 110–490 kHz and above | a paragraph (g), fundamental em er this section shall not be locate , 174-216 MHz or 470-806 MHz. is permitted under other sections ove, the tighter limit applies at th wn in the above table are based asi-peak detector except for the t e 1000 MHz. Radiated emission nents employing an average det | ed in the frequency bands However, operation within s of this part, e.g., §§ 15.231 ne band edges. on measurements frequency bands 9–90 kHz, 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 | 10 |
| 4.6.1 E.U.T. Operation | | | 20 |

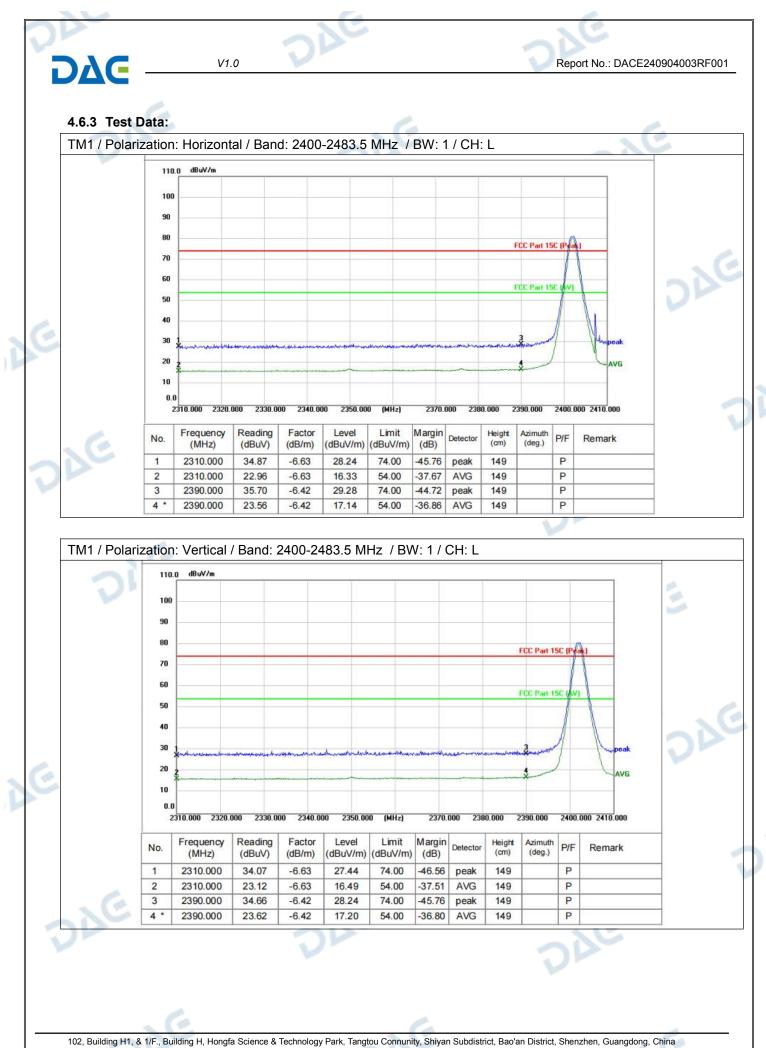
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4.6.1 E.U.T. Operation:

| Operating Envir | onment: | | | | | |
|------------------|-----------|-----|-----------|------|-----------------------|---------|
| Temperature: | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode: | | TM1 | | | 6 | |
| Final test mode: | OP | TM1 | | | 200 | |
| • | | | | | | |

4.6.2 Test Setup Diagram:

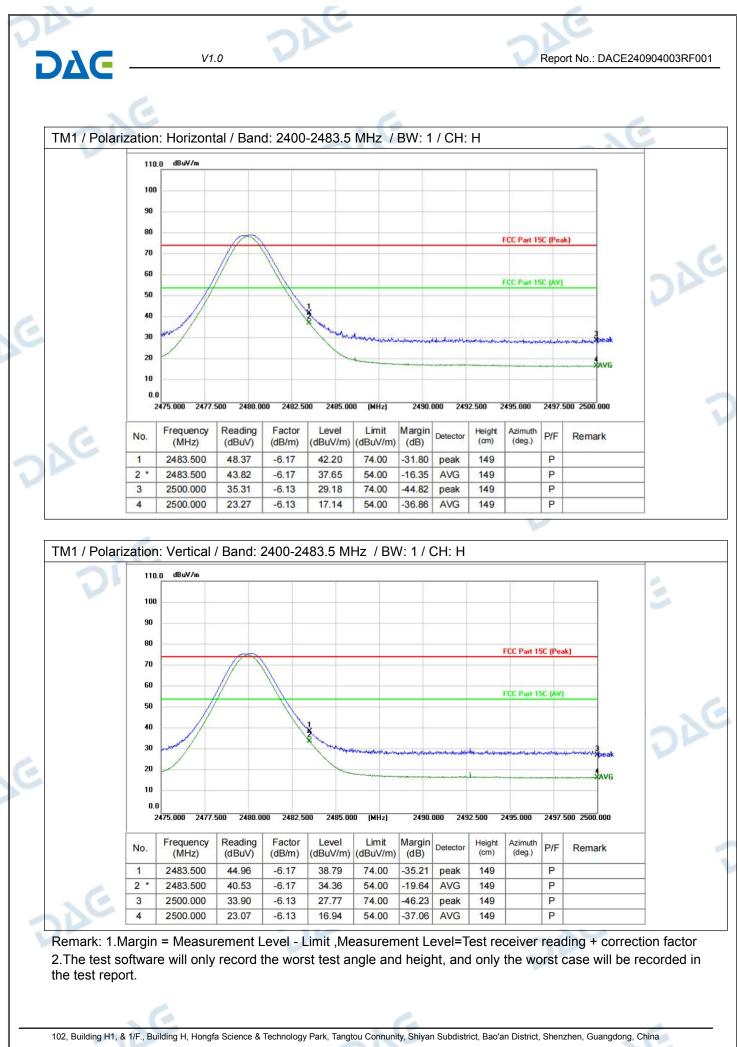




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DΔC

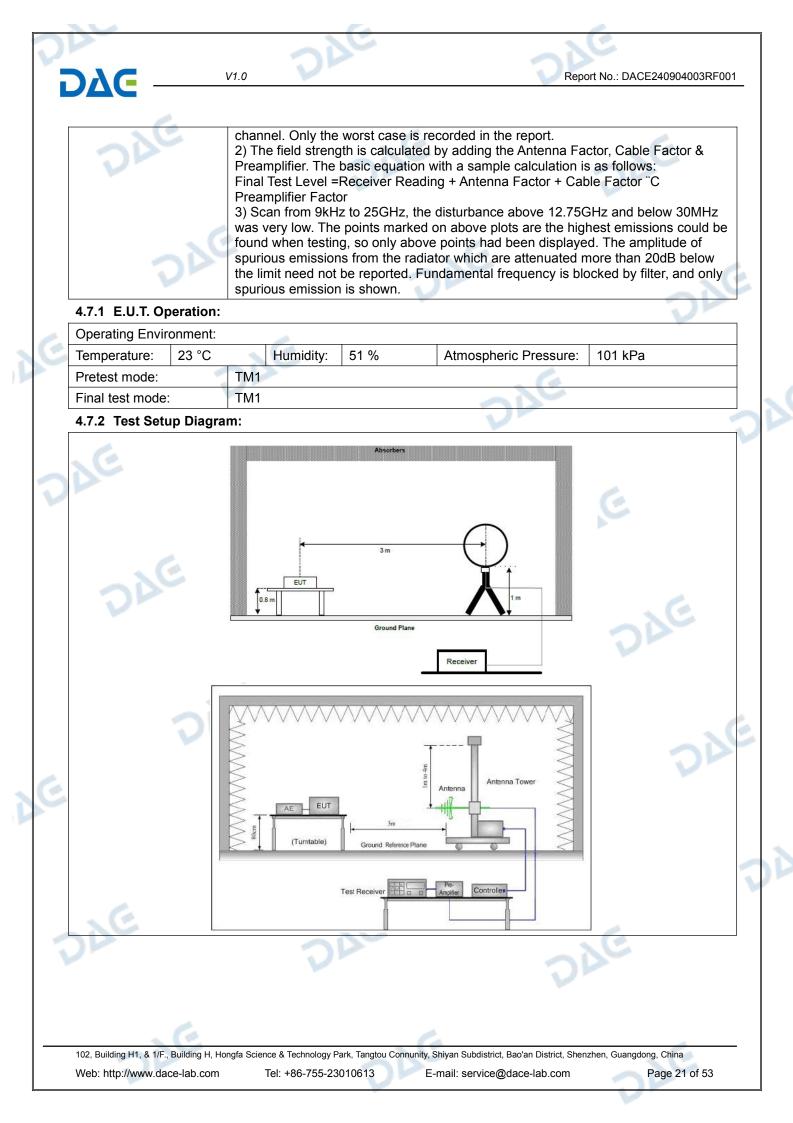
Report No.: DACE240904003RF001

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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 radiate emission limits specified in § 15.209(a)(see § 15.205(c)). | | | | |
|-------------------|--|--|--|--|--|
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | | |
| | 0.490-1.705 | 24000/F(kHz) | 30 | | |
| | 1.705-30.0 | 30 | 30 | | |
| | 30-88 | 100 ** | 3 | | |
| | 88-216 | 150 ** | 3 | | |
| | 216-960 | 200 ** | 3 | | |
| | Above 960 | 500 | 3 | | |
| | ** Except as provided in p radiators operating under 54-72 MHz, 76-88 MHz, 1 these frequency bands is and 15.241. In the emission table abov | aragraph (g), fundamental this section shall not be loc 74-216 MHz or 470-806 MI | emissions from intentional ated in the frequency bands Hz. However, operation within ons of this part, e.g., §§ 15.23 at the band edges. | | |
| Test Method: | employing a CISPR quasi 110–490 kHz and above 1 | peak detector except for th 000 MHz. Radiated emissi nts employing an average on 6.6.4 | ne frequency bands 9–90 kHz on limits in these three bands | | |
| Procedure: | above the ground at a 3 o 360 degrees to determine b. For above 1GHz, the El above the ground at a 3 m degrees to determine the c. The EUT was set 3 or 1 which was mounted on the d. The antenna height is v determine the maximum v polarizations of the antenn e. For each suspected em the antenna was tuned to below 30MHz, the antenna was turned from 0 degree | r 10 meter semi-anechoic of the position of the highest JT was placed on the top of neter fully-anechoic chambe position of the highest radia 0 meters away from the int e top of a variable-height and aried from one meter to fou alue of the field strength. B ha are set to make the mean ission, the EUT was arrang heights from 1 meter to 4 r a was tuned to heights 1 m is to 360 degrees to find the | of a rotating table 1.5 meters er. The table was rotated 360 ation. erference-receiving antenna, ntenna tower. ur meters above the ground to oth horizontal and vertical surement. ged to its worst case and then neters (for the test frequency eter) and the rotatable table e maximum reading. | | |
| | Bandwidth with Maximum g. If the emission level of t specified, then testing cour reported. Otherwise the en- tested one by one using p reported in a data sheet. h. Test the EUT in the low i. The radiation measurem Transmitting mode, and for | he EUT in peak mode was ld be stopped and the peal nissions that did not have eak, quasi-peak or average | 10dB lower than the limit c values of the EUT would be 10dB margin would be re- e method as specified and the annel, the Highest channel. Z axis positioning for which it is the worst case. | | |

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DΔC V1.0 Report No.: DACE240904003RF001 4.7.3 Test Data: TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L 80.0 dBuV/m 70 60 FCC Part 15B Class B RE 3m 50 40 6 30 5 20 10 0.0 30.000 1000.000 60.00 (MHz) 300.00 Frequency Reading Factor Level Limit Margin Height Azimuth No. Detector P/F Remark (dB/m) (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) (cm) (deg.) 30.4238 26.07 0.54 26.61 -13.39 P 1 40.00 QP 100 2 123.2655 27.71 -5.28 22.43 43.50 -21.07 QP 100 P 3 285.9778 27.10 -5.54 21.56 46.00 -24.44 QP 100 P 4 356.6758 27.30 -4.39 22.91 46.00 -23.09 QP 100 P 528.2458 27.43 -1.08 26.35 46.00 -19.65 QP 100 P 5 * 32.93 P 6 912.8620 27.42 5.51 46.00 -13.07 QP 100

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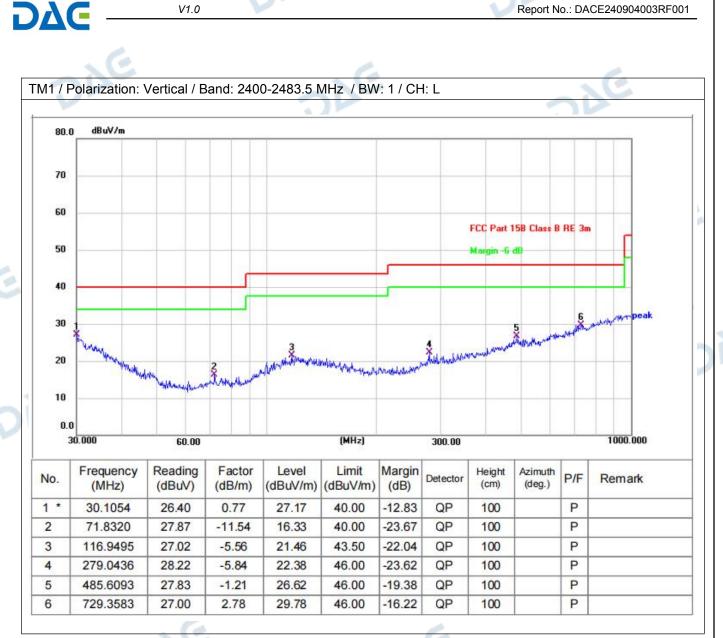
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Report No.: DACE240904003RF001



Remark: 1.Margin = Measurement Level - Limit ,Measurement Level=Test receiver reading + correction factor 2. 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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Report No.: DACE240904003RF001

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 | | | |
| | and 15.241. In the emission table a The emission limits sh employing a CISPR qu 110–490 kHz and abov | bove, the tighter limit applic own in the above table are l lasi-peak detector except fo | based on measurements or the frequency bands 9–90 kHz, ission limits in these three bands | | | |
| Test Method: | ANSI C63.10-2013 sec KDB 558074 D01 15.2 | ction 6.6.4 47 Meas Guidance v05r02 | | | | |
| Procedure: | above the ground at a 360 degrees to determ b. For above 1GHz, the above the ground at a degrees to determine to c. The EUT was set 3 of which was mounted or d. The antenna height determine the maximu polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the anter was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise th tested one by one usin reported in a data shee h. Test the EUT in the i. The radiation measu Transmitting mode, an j. Repeat above procee Remark: 1) For emission below | 3 or 10 meter semi-anecho ine the position of the highe e EUT was placed on the to 3 meter fully-anechoic char the position of the highest ra- or 10 meters away from the n the top of a variable-heigh is varied from one meter to m value of the field strength tenna are set to make the m emission, the EUT was arr d to heights from 1 meter to enna was tuned to heights 1 rees to 360 degrees to find stem was set to Peak Detect um Hold Mode. of the EUT in peak mode w could be stopped and the p e emissions that did not hav the peak, quasi-peak or aver- et. lowest channel, the middle rements are performed in X d found the X axis position dures until all frequencies m | pp of a rotating table 1.5 meters nber. The table was rotated 360 adiation. interference-receiving antenna, t antenna tower. four meters above the ground to n. Both horizontal and vertical neasurement. anged to its worst case and then 4 meters (for the test frequency of meter) and the rotatable table the maximum reading. t Function and Specified vas 10dB lower than the limit eak values of the EUT would be ve 10dB margin would be re- age method as specified and the channel, the Highest channel. C, Y, Z axis positioning for ng which it is the worst case. neasured was complete. | | | |

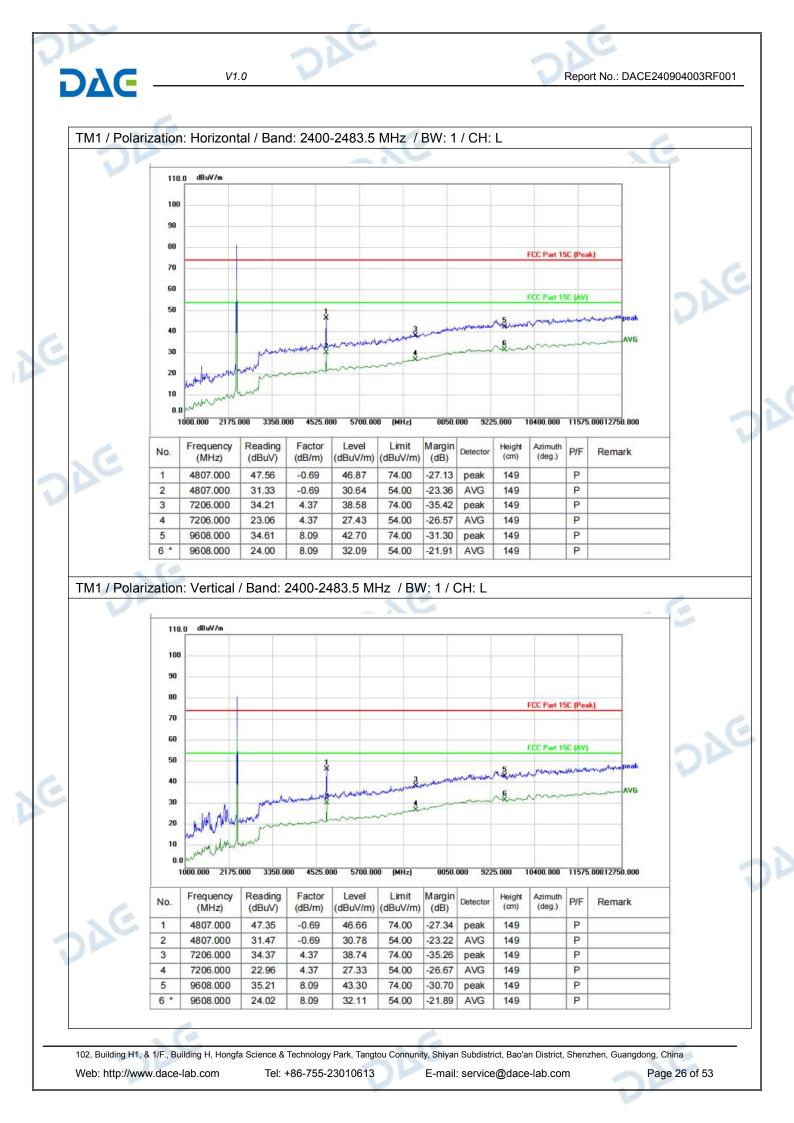
Web: http://www.dace-lab.com

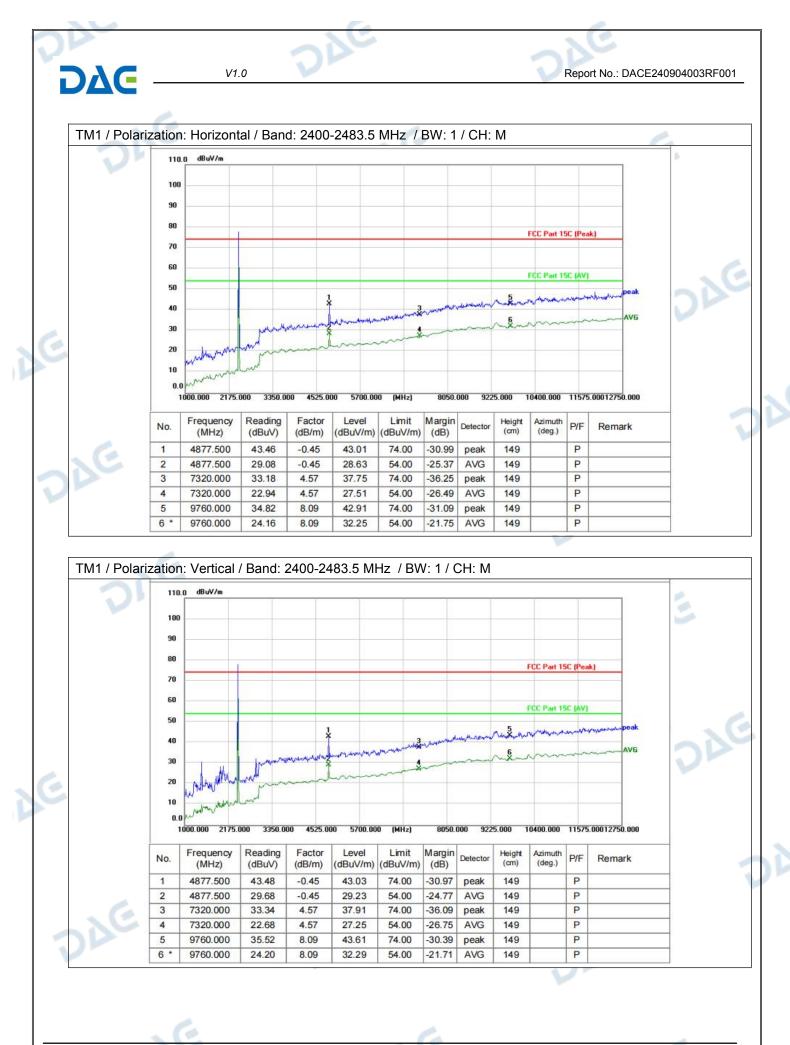
Tel: +86-755-23010613

E-mail: service@dace-lab.com

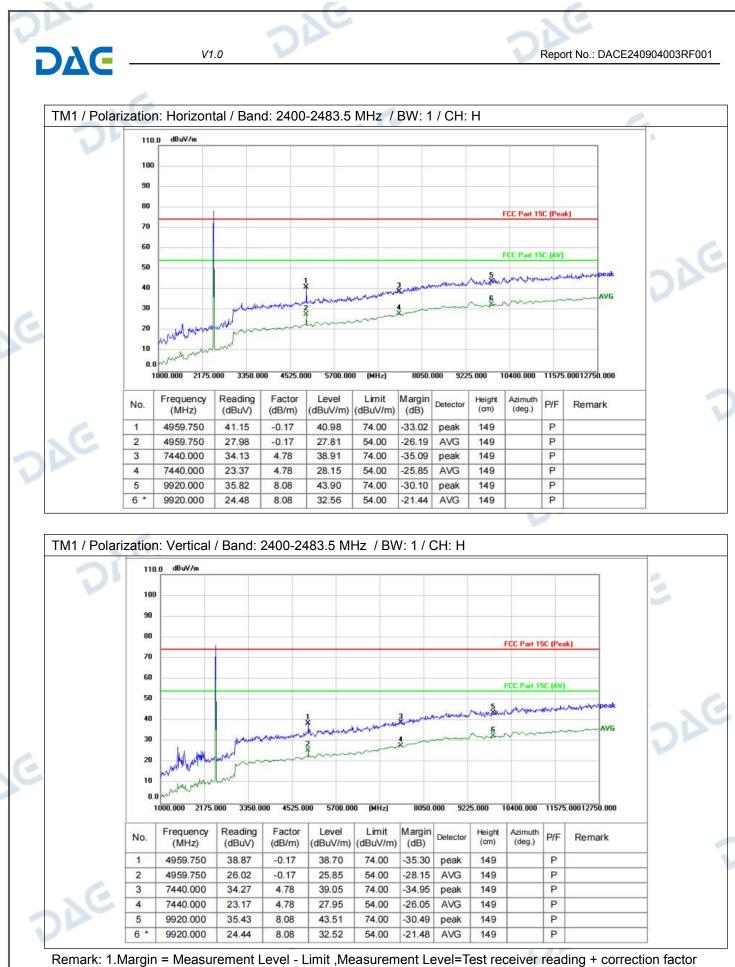
| | ΟΔΕ – | | V1.0 | | | Repo | ort No.: DACE2 | 40904003RF0 |
|---|-------------------|---------|---|--|--|---|---|---|
| | | | | | | | | |
| | DAC | | Prear Final Prear 3) Sc was v founc spurie the lin | nplifier. The Test Level = nplifier Facto an from 9kH very low. The when testin ous emission | basic equation v Receiver Readir or z to 25GHz, the points marked o g, so only above is from the radia be reported. Fur | by adding the Antenna Fac with a sample calculation is ing + Antenna Factor + Cab disturbance above 12.75G on above plots are the high e points had been displaye tor which are attenuated m indamental frequency is blo | s as follows: ble Factor "C GHz and belo nest emission d. The amplo nore than 20 | ow 30MHz ons could be itude of odB below |
| | 4.8.1 E.U.T. Op | oration | spund | ous emission | i is snown. | | | |
| | • | | | | | | | 22 |
| | Operating Environ | 23 °C | | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa | |
| C | Pretest mode: | 20 0 | TM1 | riamaty. | 51 /0 | | ισικια | |
| | Final test mode: | - | TM1 | | | | | |
| | 4.8.2 Test Setu | | | | | | | |
| | DA | | <u> </u> | Gound Refer | ence Plane Test Receiver | rre Anglifier Controller | | |
| | 4.8.3 Test Data | 24 | E | | 1 | AC | | 24 |
| | | | | | | | | |
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2. 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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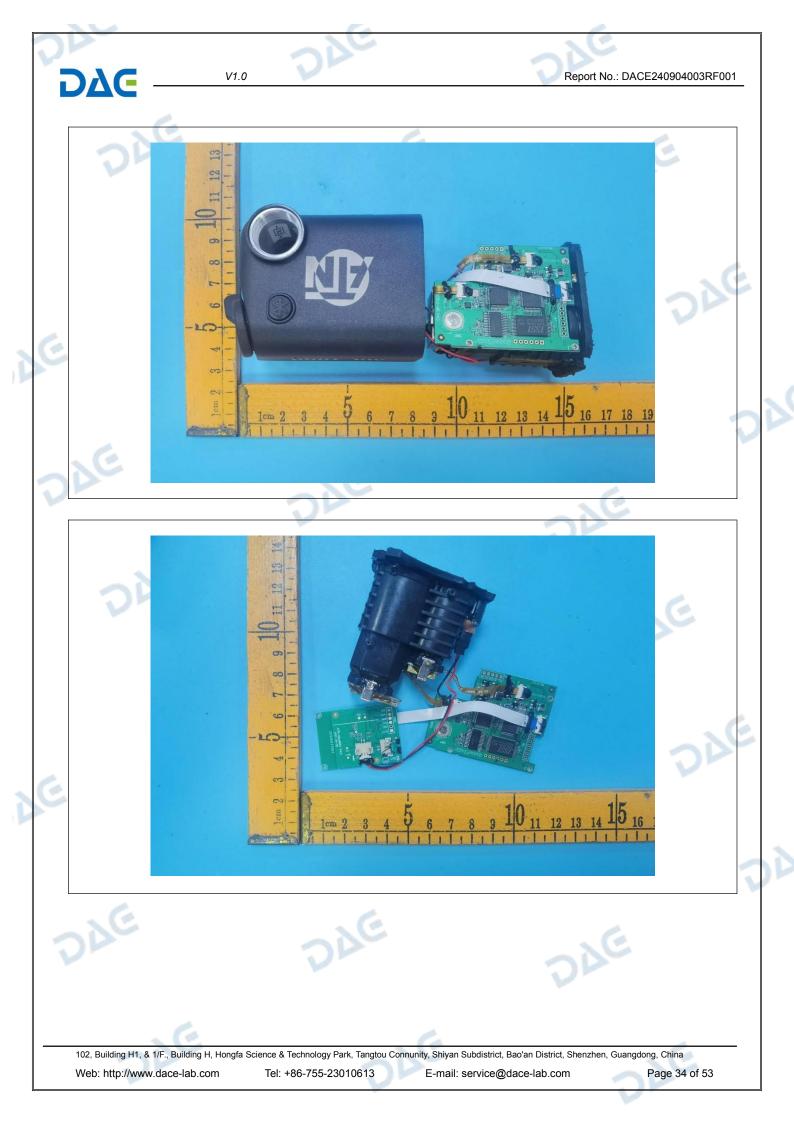


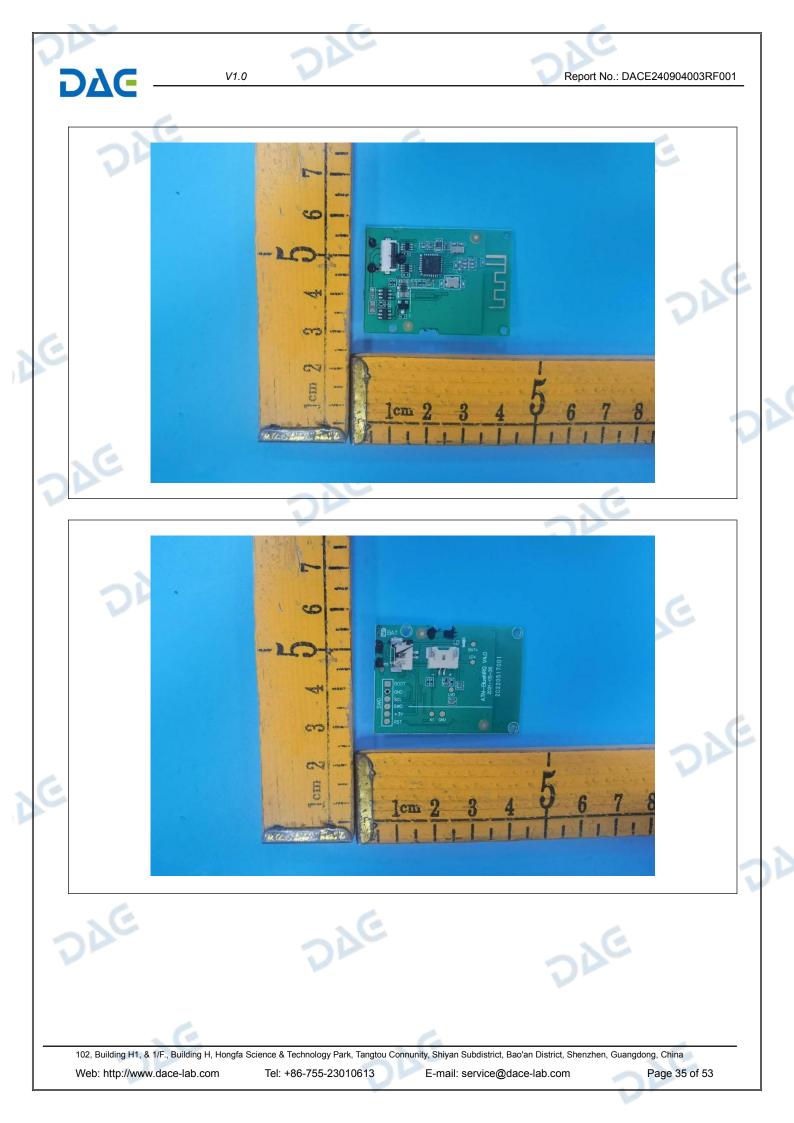


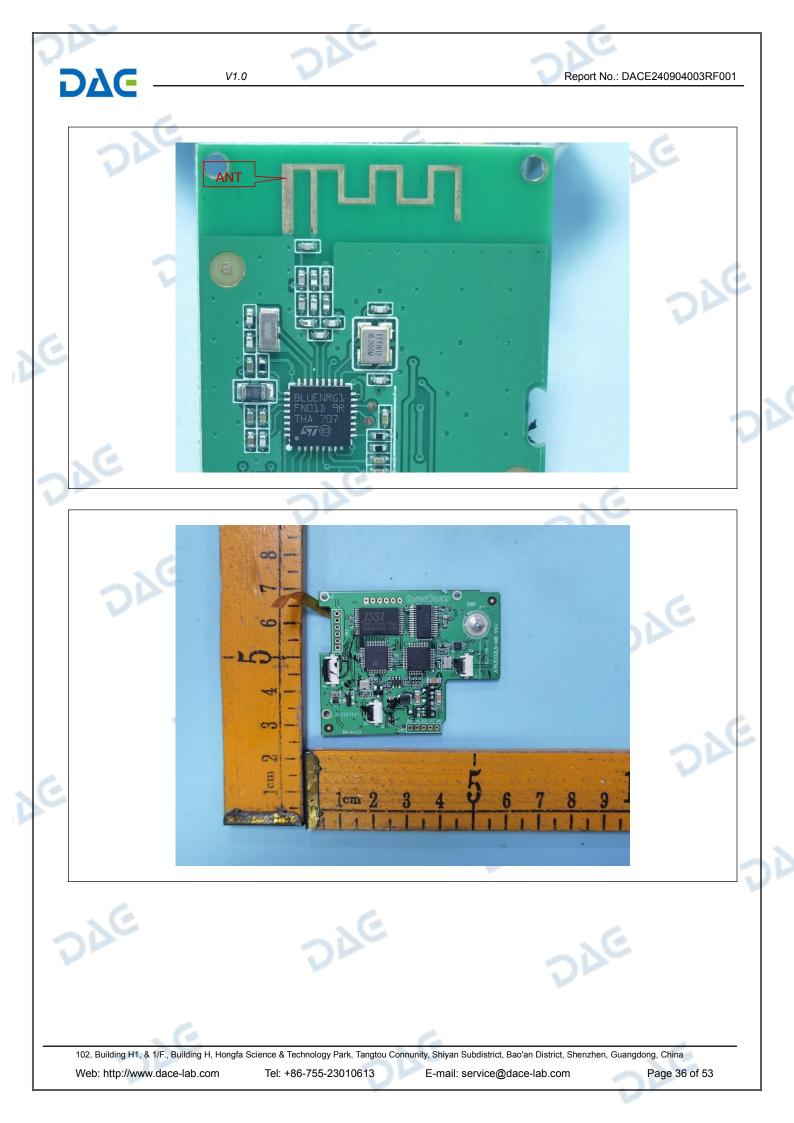


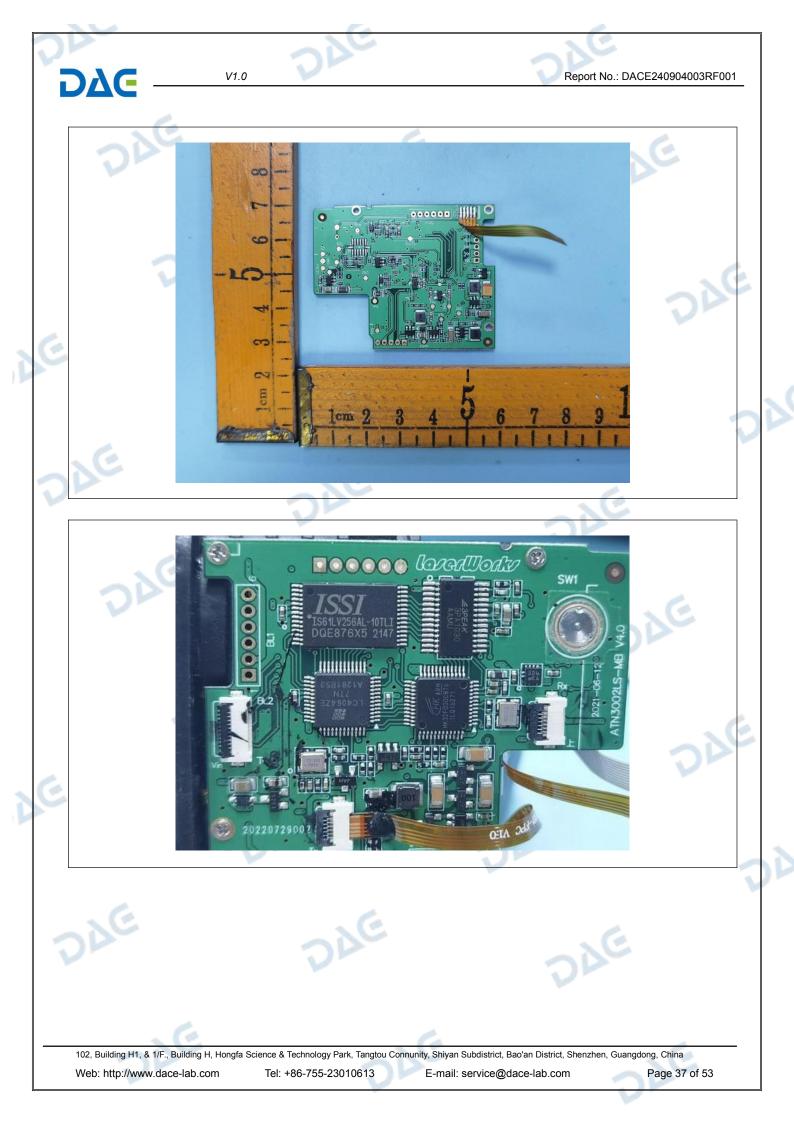


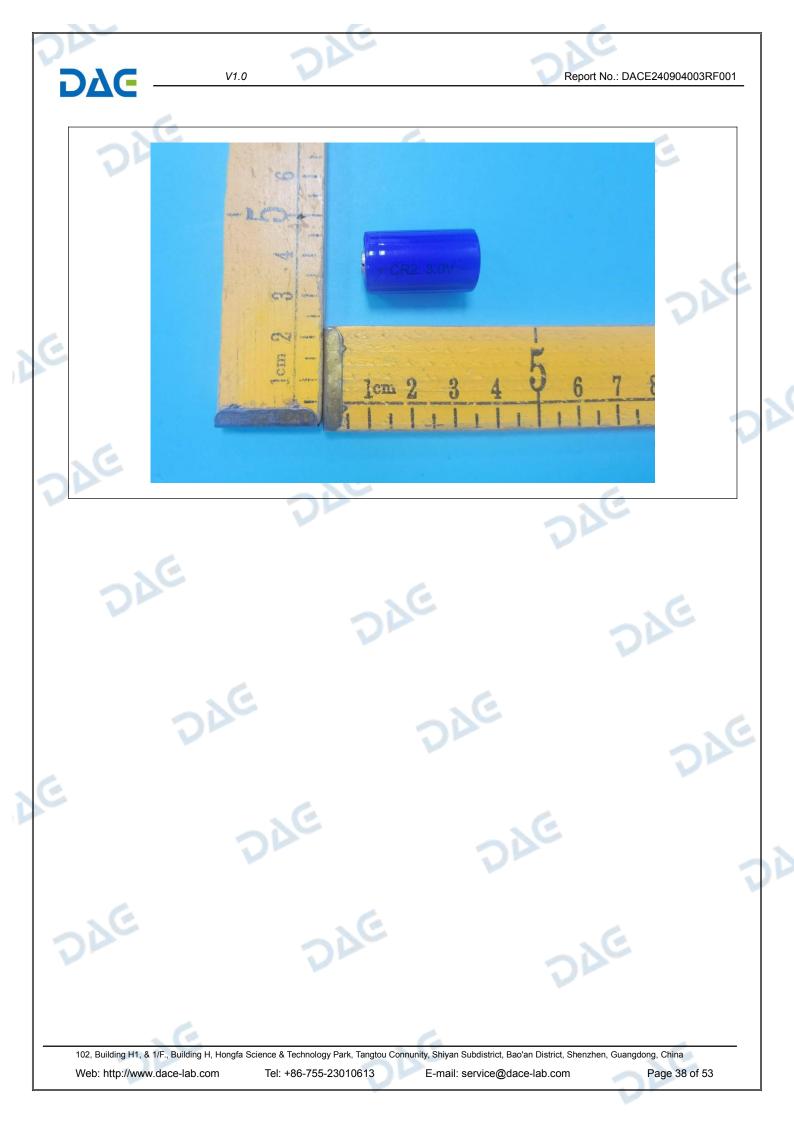












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Appendix

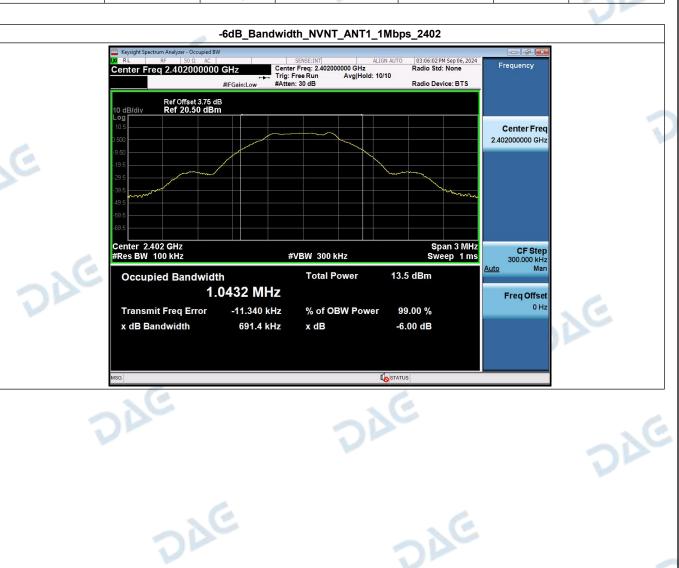
1. -6dB Bandwidth

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| Condition | Antenna | Rate | Frequency (MHz) | -6dB BW(kHz) | limit(kHz) | Result |
|-----------|---------|-------|-----------------|--------------|------------|--------|
| NVNT | ANT1 | 1Mbps | 2402.00 | 691.44 | 500 | Pass |
| NVNT 🔰 | ANT1 | 1Mbps | 2440.00 | 692.25 | 500 | Pass |
| NVNT | ANT1 | 1Mbps | 2480.00 | 686.17 | 500 | Pass |



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Report No.: DACE240904003RF001

2. 99% Occupied Bandwidth

DAC

| Condition | Antenna | Rate | Frequency (MHz) | 99%%BW(MHz) |
|-----------|---------|-------|-----------------|-------------|
| NVNT | ANT1 | 1Mbps | 2402.00 | 1.041 |
| NVNT | ANT1 | 1Mbps | 2440.00 | 1.039 |
| NVNT | ANT1 | 1Mbps | 2480.00 | 1.037 |

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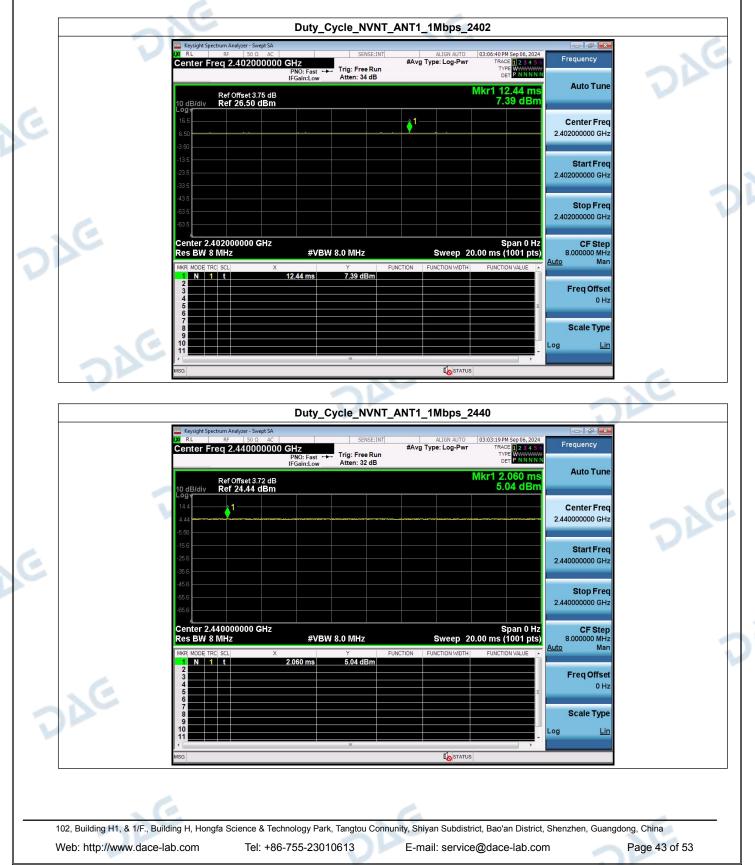
| | V1.0 | |
|--|---|---|
| DVC — | V1.0 | Report No.: DACE240904003RF001 |
| | | |
| 24 | 99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps | _2480 |
| | Keysight Spectrum Analyzer - Occupied BW W RL RF 50.0 AC SENSE:INT ALIGN AUTO 02:52:51 Center Freq: 2.480000000 GHz Center Freq: 2.480000000 GHz Radio St | PM Sep 06, 2024 d' None Frequency |
| | Trig: Free Run Avg Hold: 10/10 | evice: BTS |
| | Ref Offset 3.85 dB 10 dB/div Ref 12.70 dBm Log | |
| | 270 | 2.48000000 GHz |
| V | 17.3 | |
| | | |
| 6. I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I | -67.3 -67.3 | |
| 2 | -773 Center 2.48 GHz S | pan 3 MHz |
| | #Res BW 30 kHz #VBW 100 kHz Swe | ep 3.2 ms Auto Man |
| | Occupied Bandwidth Total Power 10.1 dBm 1.0369 MHz | Freq Offset |
| | Transmit Freq Error -5.800 kHz % of OBW Power 99.00 % x dB Bandwidth 1.281 MHz x dB -26.00 dB | 0 Hz |
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Report No.: DACE240904003RF001

3. Duty Cycle

DΔC

| Condition | Antenna | Rate | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|-----------|---------|-------|-----------------|--------------|-------------|
| NVNT | ANT1 | 1Mbps | 2402.00 | 100 | 0.00 |
| NVNT | ANT1 | 1Mbps | 2440.00 | 100 | 0.00 |
| NVNT | ANT1 | 1Mbps | 2480.00 | 100 | 0.00 |



| DAG - | V1.0 | R | eport No.: DACE240904003RF00 |
|-------|--|--|---|
| - De | | /NT_ANT1_1Mbps_2480 | .E |
| | Center Freq 2.480000000 GHz IFGain:Low Trig: Free IFGain:Low No: Fast → Trig: Free | | Frequency Auto Tune |
| | Ref Offset 3.85 dB 10 dB/div Ref 22.70 dBm Log | Mkr1 15.06 ms 3.62 dBm | Center Freq |
| 2 | 2.70 -7.30 -7.31 -7.3 | | 2.48000000 GHz Start Freq 2.480000000 GHz |
| | -373 -473 -573 | | 2.48000000 GHz Stop Freq 2.48000000 GHz |
| - | 67.3 Center 2.480000000 GHz Res BW 8 MHz #VBW 8.0 MHz | Span 0 Hz Sweep 20.00 ms (1001 pts) | CF Step 8.00000 MHz |
| | MKR MODE TRCI SCL X Y 1 N 1 t 15.06 ms 3.62 dB 2 3 4 4 4 4 | FUNCTION FUNCTION WIDTH FUNCTION VALUE | uto Man Freq Offset 0 Hz |
| LE. | 5 6 7 8 9 9 | | Scale Type |
| DAG | 11 | Lostatus | og <u>Lin</u> |
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Report No.: DACE240904003RF001

4. Peak Output Power

DAC

| Condition | Antenna | Rate | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|-------|--------------------|------------------------------|-----------------------------|-----------|--------|
| NVNT | ANT1 | 1Mbps | 2402.00 | 7.35 | 5.44 | 1000 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | 5.03 | 3.18 | 1000 | Pass |
| NVNT | ANT1 | 1Mbps | 2480.00 | 3.60 | 2.29 | 1000 | Pass |



| D ΔC — | Peak_Output_Power_N | NT ANT1 1Mbps 2480 | |
|---------------|--|---|-------------------------------|
| LXI. | Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT enter Freq 2.480000000 GHz | ALIGN AUTO 02:53:29 PM Sep 06, 2024 | - 9 X |
| | PN0: Fast ++ Trig: Free Run IFGain:Low Atten: 30 dB Ref Offset 3.85 dB | Avg Hold: 10/10 TYPE WWWWW DEF WNNNN Mkr1 2.479 802 GHz 3.602 dBm | Auto Tune |
| L | 2 dB/div Ref 22.70 dBm | | enter Freq |
| 2 | .70 | | |
| | 73 | 2.47 | Start Freq Stop Freq |
| 6 | 7.3 | 2.48 | Stop Freq 0000000 GHz |
| | 7.3 | Auto | CF Step 600.000 kHz Man |
| | 73 | | Freq Offset |
| -6 | 73 | | Scale Type |
| | enter 2.480000 GHz Res BW 3.0 MHz #VBW 8.0 MHz | Span 6.000 MHz Sweep 1.000 ms (1001 pts) | Lin |
| | 20- | | <u>e</u> |
| | | | |
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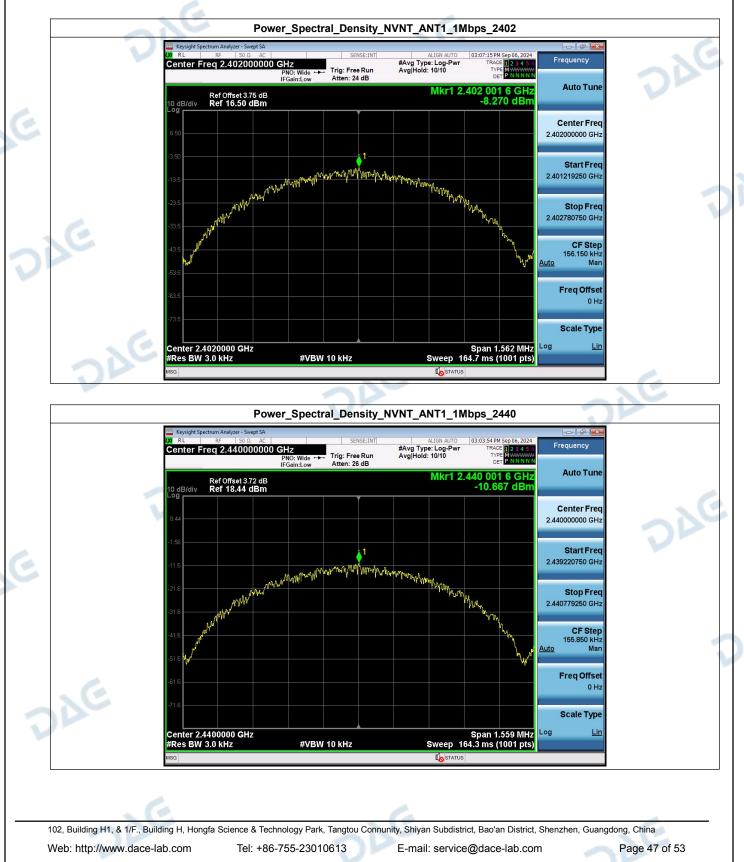
Report No.: DACE240904003RF001

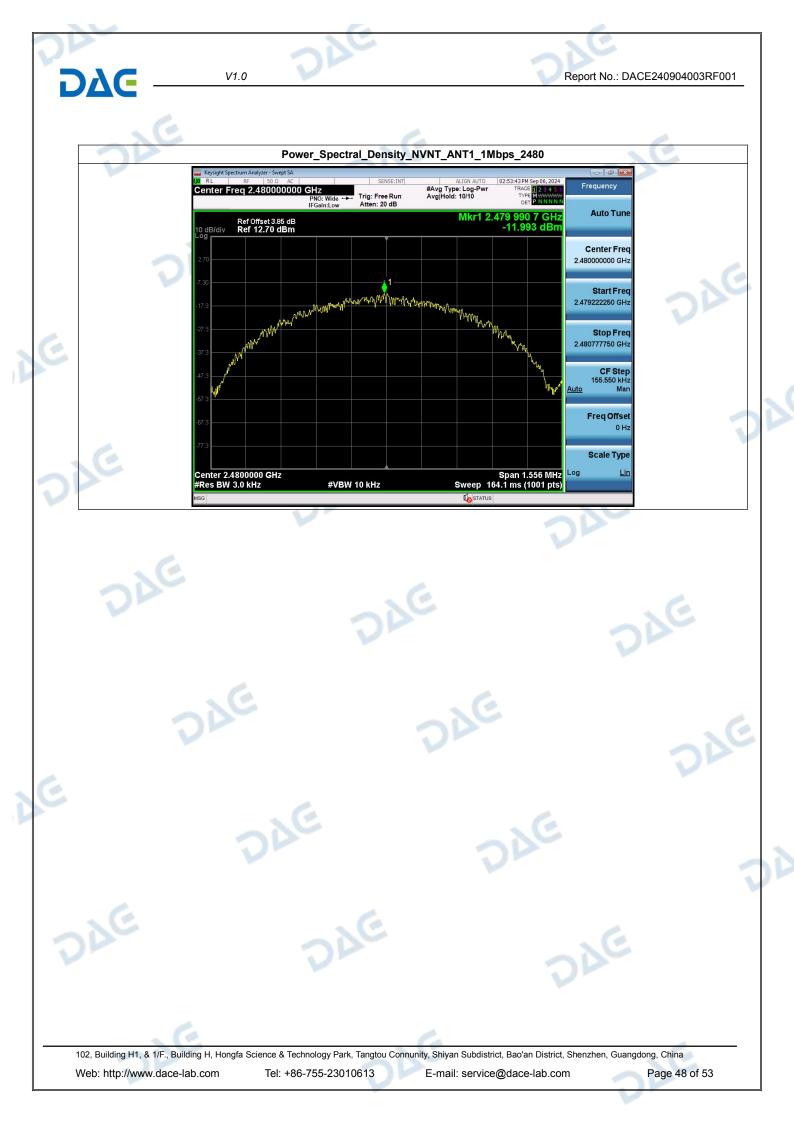
5. Power Spectral Density

DAG

| Condition | Antenna | Rate | Frequency (MHz) | Power Spectral Density(dBm) | Limit(dBm/3kHz) | Result |
|-----------|---------|-------|-----------------|-----------------------------|-----------------|--------|
| NVNT | ANT1 | 1Mbps | 2402.00 | -8.27 | 8 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -10.67 | 8 | Pass |
| NVNT | ANT1 | 1Mbps | 2480.00 | -11.99 | 8 | Pass |

C





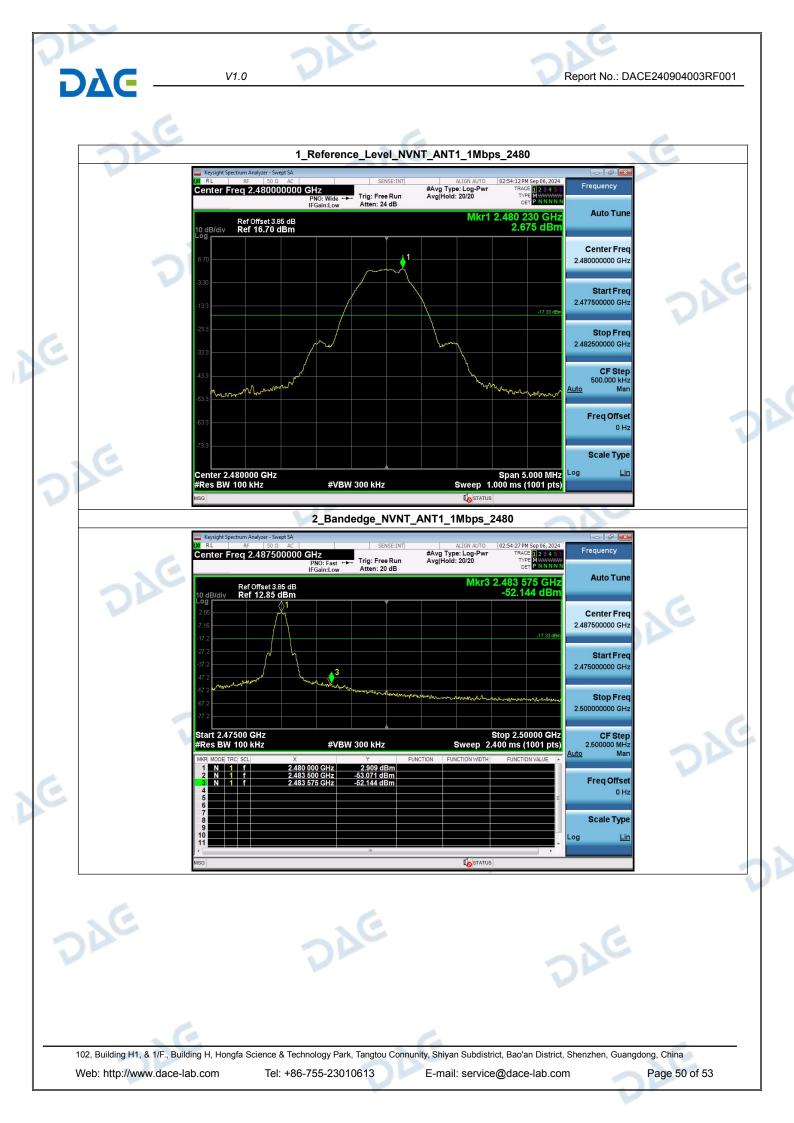
Report No.: DACE240904003RF001

6. Bandedge

DΔC

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|-----------|---------|-------|-----------------------|------------------------------|------------------------|------------|--------|
| Condition | Antenna | Rate | TX_Frequency (MHz) | Max. Mark Frequency (MHz) | Spurious level(dBm) | limit(dBm) | Result |
| NVNT | ANT1 | 1Mbps | 2402.00 | 2399.965 | -46.851 | -13.732 | Pass |
| NVNT | ANT1 | 1Mbps | 2480.00 | 2483.575 | -52.144 | -17.325 | Pass |





Report No.: DACE240904003RF001

7. **Spurious Emission**

DΔC

| Condition | Antenna | Rate | TX_Frequency(MHz) | Spurious MAX.Value(dBm) | Limit | Result |
|-----------|---------|-------|-------------------|-------------------------|---------|--------|
| NVNT | ANT1 | 1Mbps | 2402.00 | -47.239 | -13.732 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -49.392 | -16.112 | Pass |
| NVNT | ANT1 | 1Mbps | 2480.00 | -50.281 | -17.325 | Pass |

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