

FCC Test Report

DNT240894R1387-3136

Application No.: Applicant: Address of Applicant: EUT Description: Model No.: FCC ID: Power Supply: Charging Voltage: Trade Mark:

Standards:

Date of Receipt: Date of Test: Date of Issue: Test Result: MAX SALES GROUP 15240 East Nelson Ave.City of Industry, CCA 91744 USA RGB BLUETOOTH SPEAKER WITH ALARM/CLOCK-WHITE NV-08677 2AZSG-NV-08677 DC 3.7V From Battery; DC 5V From Adapter Input AC 100-240V,50/60Hz DC 5V

47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C ANSI C63.10: 2013 2024/5/8 2024/5/10 to 2024/5/17 2024/5/20 **PASS ***

Prepared By: Reviewed By: Approved By:

Wayne . I (Testing Engineer) incits the mis (Project Engineer) (Manager)

Image: Construction of the second seco

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

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Date: May 20, 2024 Page: 2 / 59

Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | | May.20, 2024 | Valid | Original Report |



1

Report No.: DNT240894R1387-3136

Date: May 20, 2024

Page: 3/59

Test Summary

| Test Item | Test Requirement | Test Method | Test Result | Result |
|---|-----------------------------|--------------------|-------------|--------|
| Antenna Requirement | 15.203/247(b) | 5 <u>6</u> 4 | Clause 3.1 | PASS |
| 20dB Emission Bandwidth | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 3.2 | PASS |
| Conducted Peak Output Power | 15.247 (b)(1) | ANSI C63.10 (2013) | Clause 3.3 | PASS |
| Carrier Frequencies Separation | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 3.4 | PASS |
| Dwell Time | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 3.5 | PASS |
| Hopping Channel Number | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 3.6 | PASS |
| Band-edge for RF Conducted Emissions | 15.247(d) | ANSI C63.10 (2013) | Clause 3.7 | PASS |
| RF Conducted Spurious Emissions | 15.247(d) | ANSI C63.10 (2013) | Clause 3.8 | PASS |
| Radiated Spurious | 15.247(d); | ANSI 062 40 (2042) | Clause 3.9 | PASS |
| emissions | 15.205/15.209 | ANSI C63.10 (2013) | Clause 3.9 | |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.247(d); 15.205/15.209 | ANSI C63.10 (2013) | Clause 3.10 | PASS |
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10 (2013) | Clause 3.11 | PASS |

Note:

1. "N/A" denotes test is not applicable in this test report.



Date: May 20, 2024

Page: 4/59

Contents

| 1 Test Summary | |
|--|----|
| 2 General Information | 5 |
| 2.1 Test Location | |
| 2.2 General Description of EUT | 6 |
| 2.3 Channel List | 7 |
| 2.4 5Test Environment and Mode | |
| 2.5 Power Setting of Test Software | |
| 2.6 Description of Support Units | 9 |
| 2.7 Test Facility | 9 |
| 2.8 Measurement Uncertainty (95% confidence levels, k=2) | |
| 2.9 Equipment List | |
| 2.10 Assistant equipment used for test | |
| 3 Test results and Measurement Data | |
| 3.1 Antenna Requirement | |
| 3.2 20dB Emission Bandwidth | |
| 3.3 Conducted Output Power | |
| 3.4 Carrier Frequencies Separationy | |
| 3.5 Dwell Time | |
| 3.6 Hopping Channel Number | |
| 3.7 Band-edge for RF Conducted Emissions | |
| 3.8 RF Conducted Spurious Emissions | |
| 3.9 Radiated Spurious Emissions | |
| 3.10 Restricted bands around fundamental frequency | 29 |
| 3.11 AC Power Line Conducted Emissions | |
| 4 Appendix | |
| Appendix A: 20dB Emission Bandwidth | 36 |
| Appendix B: Maximum conducted output power | |
| Appendix C: Carrier frequency separation | |
| Appendix D: Dwell Time | 44 |
| Appendix F: Number of hopping channels | |
| Appendix F: Band edge measurements | |
| Appendix F: Conducted Spurious Emission | |



Date: May 20, 2024

Page: 5/59

2 General Information

2.1 Test Location

| Company: | Dongguan DN Testing Co., Ltd | | |
|----------------|--|--|--|
| Address: | No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China | | |
| Test engineer: | Wayne Lin | | |



Date: May 20, 2024

Page: 6/59

2.2 General Description of EUT

| Manufacturer: | IDEA PLUS INTERNATIONAL(HK)LTD. | | |
|--------------------------|--|--|--|
| Address of Manufacturer: | RM-1318-19,HOLLYWOOD PLAZA MONG KOK KOWLOON HK | | |
| Test EUT Description: | RGB BLUETOOTH SPEAKER WITH ALARM/CLOCK-WHITE | | |
| Model No.: | NV-08677 | | |
| Additional Model(s): | | | |
| Chip Type: | AC6966B | | |
| Serial number: | PR240894R1387 | | |
| Power Supply: | DC 3.7V From Battery; DC 5V From Adapter Input AC 100-240V,50/60Hz | | |
| Charging Voltage: | DC 5V | | |
| Trade Mark: | | | |
| Hardware Version: | V1.0 | | |
| Software Version: | V1.0 | | |
| Operation Frequency: | 2402 MHz to 2480 MHz | | |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) | | |
| Type of Modulation: | GFSK,π/4-DQPSK | | |
| Sample Type: | □ Portable Device, □ Module, ⊠ Mobile Device | | |
| Antenna Type: | □ External, ⊠ Integrated | | |
| Antenna Ports: | 🖂 Ant 1, 🗌 Ant 2, 🗌 Ant 3 | | |
| Antenna Gain*: | ⊠ Provided by applicant | | |
| Antenna Gain . | -0.58dBi | | |
| | ⊠ Provided by applicant | | |
| RF Cable*: | 0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz); | | |

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2.3 Channel List

| | Operation Frequency of each channel | | | | | | |
|---------|-------------------------------------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| 2 | 2404MHz | 22 | 2424MHz | 42 | 2444MHz | 62 | 2464MHz |
| 3 | 2405MHz | 23 | 2425MHz | 43 | 2445MHz | 63 | 2465MHz |
| 4 | 2406MHz | 24 | 2426MHz | 44 | 2446MHz | 64 | 2466MHz |
| 5 | 2407MHz | 25 | 2427MHz | 45 | 2447MHz | 65 | 2467MHz |
| 6 | 2408MHz | 26 | 2428MHz | 46 | 2448MHz | 66 | 2468MHz |
| 7 | 2409MHz | 27 | 2429MHz | 47 | 2449MHz | 67 | 2469MHz |
| 8 | 2410MHz | 28 | 2430MHz | 48 | 2450MHz | 68 | 2470MHz |
| 9 | 2411MHz | 29 | 2431MHz | 49 | 2451MHz | 69 | 2471MHz |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| _ 12 | 2414MHz | 32 | 2434MHz | 52 | 2454MHz | 72 | 2474MHz |
| 13 | 2415MHz | 33 | 2435MHz | 53 | 2455MHz | 73 | 2475MHz |
| 14 | 2416MHz | 34 | 2436MHz | 54 | 2456MHz | 74 | 2476MHz |
| 15 | 2417MHz | 35 | 2437MHz | 55 | 2457MHz | 75 | 2477MHz |
| 16 | 2418MHz | 36 | 2438MHz | 56 | 2458MHz | 76 | 2478MHz |
| 17 | 2419MHz | 37 | 2439MHz | 57 | 2459MHz | 77 | 2479MHz |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 2461MHz | | \sim |

Remark:

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:

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2402MHz |
| The Middle channel | 2441MHz |
| The Highest channel | 2480MHz |



Date: May 20, 2024

Page: 8/59

2.4 5Test Environment and Mode

| Operating Environment: | | | | | |
|---|------------------|--|--|--|--|
| Temperature: | 20~25.0 °C | | | | |
| Humidity: | 45~56 % RH | | | | |
| Atmospheric Pressure: | 101.0~101.30 KPa | | | | |
| Test mode: | | | | | |
| Transmitting mode: Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate. | | | | | |



Date: May 20, 59

2.5 Power Setting of Test Software

| 2024 Page: | 9/ |
|------------|----|
|------------|----|

| Software Name | \bigcirc \bigcirc | FCC_assist_1.0.2.2 | \mathcal{O} , \mathcal{O} , \mathcal{O} |
|-------------------|-----------------------|--------------------|---|
| Frequency(MHz) | 2402 | 2441 | 2480 |
| GFSK Setting | Default | Default | Default |
| π/4-DQPSK Setting | Default | Default | Default |

2.6 Description of Support Units

The EUT has been tested independent unit.

2.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• FCC, USA

Designation Number: CN1348

A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC#: 31026.



Report No.: DNT240894R1387-3136 Date: May 20, 2024 Page: 10 / 59

2.8 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|---|
| 1 | 20dB Emission Bandwidth | ±0.0196% |
| 2 | Carrier Frequency Separation | ±1.9% |
| 3 | Number of Hopping Channel | ±1.9% |
| 4 | Time of Occupancy | ±0.028% |
| 5 | Max Peak Conducted Output Power | ±0.743 dB |
| 6 | Band-edge Spurious Emission | ±1.328 dB |
| 7 | Conducted RF Spurious Emission | 9KHz-1GHz:±0.746dB 1GHz-26GHz:±1.328dB |

| No. | Item | Measurement Uncertainty | | |
|---------|--------------------------------|---------------------------|--|--|
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) | | |
| \circ | O, O , O , O , O , O | ± 4.8dB (Below 1GHz) | | |
| 0 | Dedicted Enviroism | ± 4.8dB (1GHz to 6GHz) | | |
| 2 | Radiated Emission | ± 4.5dB (6GHz to 18GHz) | | |
| | | ± 5.02dB (Above 18GHz) | | |



Page: 11/59

2.9 Equipment List

| For Connect EUT Antenna Terminal Test | | | | | | |
|---------------------------------------|--------------|----------------|---------------|------------|------------|--|
| Description | Manufacturer | Model | Serial Number | Cal date | Due date | |
| Signal Generator | Keysight | N5181A-6G | MY48180415 | 2023-10-25 | 2024-10-24 | |
| Signal Generator | Keysight | N5182B | MY57300617 | 2023-10-25 | 2024-10-24 | |
| Power supply | Keysight | E3640A | ZB2022656 | 2023-10-25 | 2024-10-24 | |
| Radio Communication Tester | R&S | CMW500 | 105082 | 2023-10-25 | 2024-10-24 | |
| Spectrum Analyzer | Aglient | N9010A | MY52221458 | 2023-10-25 | 2024-10-24 | |
| BT/WIFI Test Software | Tonscend | JS1120 V3.1.83 | NA | NA | NA | |
| RF Control Unit | Tonscend | JS0806-2 | 22F8060581 | NA | NA | |
| Power Sensor | Anritsu | ML2495A | 2129005 | 2023-10-25 | 2024-10-24 | |
| Pulse Power Sensor | Anritsu | MA2411B | 1911397 | 2023-10-25 | 2024-10-24 | |
| temperature and humidity box | SCOTEK | SCD-C40-80PRO | 6866682020008 | 2023-10-25 | 2024-10-24 | |

| | Test Equipment for Conducted Emission | | | | | | | |
|-------------|---|-----------|--------------|------------|------------|--|--|--|
| Description | Description Manufacturer Model Serial Number Cal Date Due Dat | | | | | | | |
| Receiver | R&S | ESCI3 | 101152 | 2023-10-24 | 2024-10-23 | | | |
| LISN | R&S | ENV216 | 102874 | 2023-10-24 | 2024-10-23 | | | |
| ISN | R&S | ENY81-CA6 | 1309.8590.03 | 2023-10-24 | 2024-10-23 | | | |

| Test Ed | quipment for F | Radiated Emis | sion(30MHz | -1000MH | z) 🦲 |
|----------------------|----------------|----------------------------|---------------|------------|------------|
| Description | Manufacturer | Model | Serial Number | Cal Date | Due Date |
| Receiver | R&S | ESR7 | 102497 | 2023-10-24 | 2024-10-23 |
| Test Software | ETS-LINDGREN | TILE-FULL | NA | NA | NA |
| RF Cable | ETS-LINDGREN | RFC-NMS-100- NMS-350-IN | NA | 2023-10-24 | 2024-10-23 |
| Log periodic antenna | ETS-LINDGREN | VULB 9168 | 01475 | 2023-10-24 | 2024-10-23 |
| Pre-amplifier | Schwarzbeck | BBV9743B | 00423 | 2023-10-24 | 2024-10-23 |



Date: May 20, 2024

Page: 12/59

| Test E | quipment for I | Radiated Emis | ssion(Above | 1000MHz | <u>z)</u> |
|------------------------------------|----------------|----------------------------|---------------|------------|------------|
| Description | Manufacturer | Model | Serial Number | Cal Date | Due Date |
| Frequency analyser | Keysight | N9010A | MY52221458 | 2023-10-24 | 2024-10-23 |
| RF Cable | ETS-LINDGREN | RFC-NMS-100- NMS-350-IN | NA | 2023-10-24 | 2024-10-23 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00252567 | 2023-10-24 | 2024-10-23 |
| Double ridged waveguide antenna | ETS-LINDGREN | 3116C | 00251780 | 2023-10-24 | 2024-10-23 |
| Test Software | ETS-LINDGREN | TILE-FULL | NA | NA | NA |
| Pre-amplifier | ETS-LINDGREN | 3117-PA | 252567 | 2023-10-24 | 2024-10-23 |
| Pre-amplifier | ETS-LINDGREN | 3116C-PA | 251780 | 2023-10-24 | 2024-10-23 |

2.10 Assistant equipment used for test

| Code | Equipment | Manufacturer | Model No. | Equipment No. |
|------|-----------|--------------|--------------|----------------|
| 1 | Computer | acer | N22C8 | EMC notebook01 |
| 2 | Adapter | HUAWEI | HW-100225C00 | NA |



3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.58dBi.



Page: 14 / 59

3.2 20dB Emission Bandwidth

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) |
|------------------------|---|
| Test Method: | ANSI C63.10:2013 Section 7.8.7 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table |
| | Ground Reference Plane |
| Instruments Used: | Refer to section 2.9 for details |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the worst case of all modulation type. |
| Limit: | NA |
| Test Results: | Pass |

The detailed test data see: Appendix A



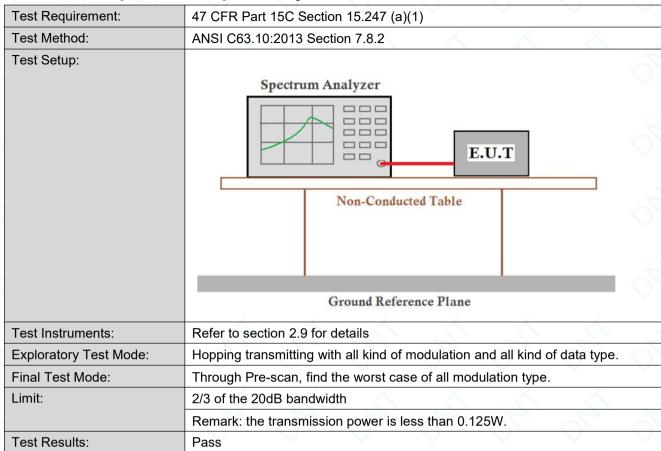
3.3 Conducted Output Power

| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(1) |
|------------------------|---|
| Test Method: | ANSI C63.10:2013 Section 7.8.5 |
| Test Setup: | Spectrum Analyzer |
| | E.U.T |
| | Non-Conducted Table |
| | Ground Reference Plane |
| Test Instruments: | Refer to section 2.9 for details |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the worst case of all modulation type. |
| Limit: | (20.97dBm) 125mW |
| Test Results: | Pass |

The detailed test data see: Appendix B



3.4 Carrier Frequencies Separationy



The detailed test data see: Appendix C



Page: 17 / 59

3.5 Dwell Time

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) | |
|-------------------|---|-------------------------|
| Test Method: | ANSI C63.10:2013 Section 7.8.4 | <u> </u> |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table | 1 0 1 0 2 0 |
| | Ground Reference Plane | Ś. |
| Instruments Used: | Refer to section 2.9 for details | \sim |
| Test Mode: | Hopping transmitting with all kind of modulation and all kind of data | a type. |
| Limit: | 0.4 Second | $\langle \cdot \rangle$ |
| Test Results: | Pass | 7 7 |

The detailed test data see: Appendix D



Page: 18/59

3.6 Hopping Channel Number

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) | |
|-------------------|---|---------------|
| Test Method: | ANSI C63.10:2013 Section 7.8.3 | 1 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | × 1/2 1/2 1/2 |
| Instruments Used: | Refer to section 2.9 for details | |
| Test Mode: | Hopping transmitting with all kind of modulation | |
| Limit: | At least 15 channels | 6 |
| Test Results: | Pass | 5 2 |

The detailed test data see: Appendix E



Report No.: DNT240894R1387-3136 Date: May 20, 2024

Page: 19/59

3.7 Band-edge for RF Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|------------------------|---|
| Test Method: | ANSI C63.10:2013 Section 7.8.6 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table |
| | Ground Reference Plane |
| Instruments Used: | Refer to section 2.9 for details |
| Exploratory Test Mode: | Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the worst case of all modulation type. |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Test Results: | Pass |

The detailed test data see: Appendix F



3.8 RF Conducted Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|----------------------------|---|
| Test Method: | ANSI C63.10: 2013 Section 11.11 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table |
| linetiu un custo I le cult | Ground Reference Plane |
| Instruments Used: | Refer to section 2.9 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the worst case of all modulation type. |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Test Results: | Pass |

The detailed test data see: Appendix G



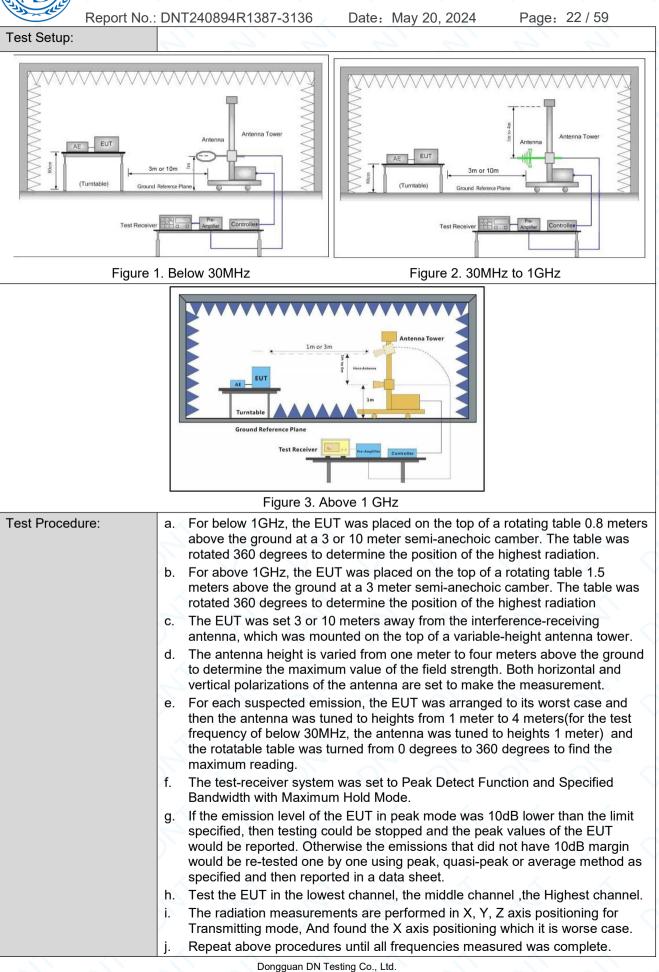
Date: May 20, 2024

Page: 21/59

3.9 Radiated Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Sectio | n 15.209 and 15.20 |)5 | | | | |
|-------------------|---|--|---|--|-----------------------------|--|--|
| Test Method: | ANSI C63.10: 2013 Sect | ion 11.12 | <u> </u> | <u> </u> | <u> </u> | | |
| Test Site: | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) | | | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark | | |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak | | |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average | | |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak | | |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average | | |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | |
| | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak | | |
| | | Peak 🧹 | 1MHz | 3MHz | Peak | | |
| | Above 1GHz | Peak | 1MHz | 10Hz (DC≥0.98) ≥1/T | Average | | |
| | A 4 | $\langle \langle \rangle$ | $\langle \langle \rangle$ | ≥ 1/1 (DC<0.98) | | | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) | | |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - 人 | \times | 300 | | |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | | 5 | 30 | | |
| | 1.705MHz-30MHz | 30 | <u> </u> | \sim \sim | 30 | | |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 | | |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 | | |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 | | |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 | | |
| | Above 1GHz | 500 | 54.0 | Average | 3 | | |
| | | 500 s otherwise specifie e the maximum per ent under test. This | 54.0 ed, the limit c mitted avera | Average on peak radio fi ge emission lir | 3 requency nit | | |





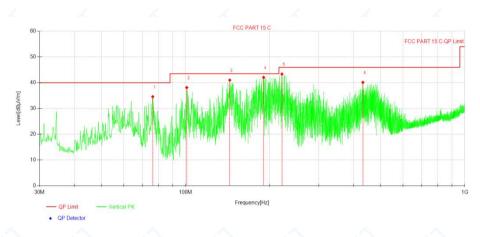


| Report No.: | DNT240894R1387-3136 Date: May 20, 2024 Page: 23 / 59 |
|------------------------|---|
| Test Configuration: | Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \ge 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW \ge 10 Hz, when duty cycle is no less than 98 percent. • VBW \ge 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. Charge+Transmitting mode. |
| Final Test Mode: | Pretest the EUT at Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of All modulation type. |
| Instruments Used: | Refer to section 2.9 for details |
| Test Results: | Pass |



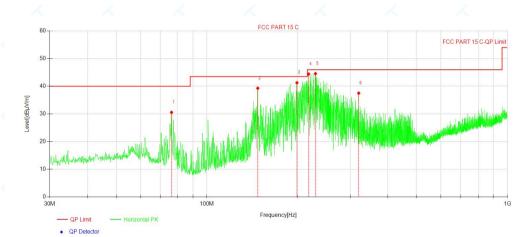
Test data For 30-1000MHz

Vertical:



| 5 | NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/ m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|---|-----|----------------|----------------------------|-----------------------------|-----------------------------|-----------------------|----------------|----------------|--------------|--------|
| | 1 | 76.27 | 46.12 | -14.45 | 31.67 | 40.00 | 8.33 | 100 | 360 | QP |
| | 2 | 101.01 | 50.62 | -14.56 | 36.06 | 43.50 | 7.44 | 200 | 0 | QP |
| | 3 | 143.98 | 53.23 | -10.29 | 42.94 | 43.50 | 0.56 | 100 | 39 | QP |
| | 4 | 187.73 | 57.29 | -15.38 | 41.91 | 43.50 | 1.59 | 100 | 239.5 | QP |
| | 5 | 227.31 | 54.40 | -13.46 | 40.94 | 46.00 | 5.06 | 100 | 51 | QP |
| | 6 | 431.62 | 43.43 | -6.01 | 37.42 | 46.00 | 8.58 | 200 | 138 | QP |

Horizontal :



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 76.27 | 42.10 | -11.54 | 30.56 | 40.00 | 9.44 | 100 | 13 | QP |
| 2 | 147.67 | 47.29 | -8.00 | 39.29 | 43.50 | 4.21 | 100 | 138 | QP |
| 3 | 199.37 | 52.35 | -11.08 | 41.27 | 43.50 | 2.23 | 100 | 30 | QP |
| 4 | 218.10 | 55.49 | -11.07 | 44.42 | 46.00 | 1.58 | 200 | 358 | QP |
| 5 | 229.74 | 54.97 | -10.41 | 44.56 | 46.00 | 1.44 | 100 | 0 | QP |
| 6 | 320.05 | 43.80 | -6.29 | 37.51 | 46.00 | 8.49 | 100 | 265 | QP |
| | | | | | | | | | |

Dongguan DN Testing Co., Ltd.

 Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

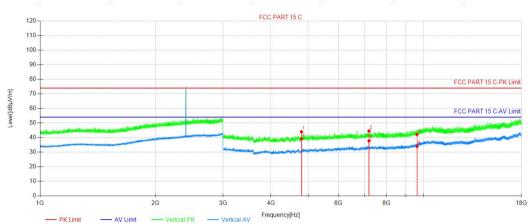
 Web: www.dn-testing.com
 Tel:+86-769-88087383
 E-mail: service@dn-testing.com



For above 1GHz

DH5 2402MHz

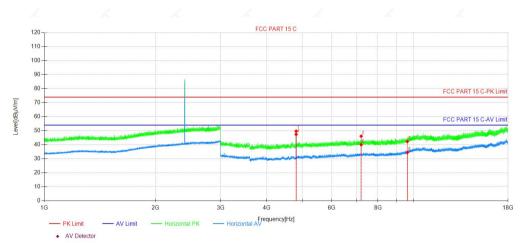
Vertical:



AV Detector

| N | IO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Heigh t [cm] | Angle [°] | Remark |
|---|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|--------------------|--------------|--------|
| | 1 | 4803.84 | 48.55 | -4.61 | 43.94 | 74.00 | 30.06 | 150 | 46 | Peak |
| | 2 | 7206.21 | 46.21 | -1.76 | 44.45 | 74.00 | 29.55 | 150 | 64 | Peak |
| | 3 | 9608.58 | 41.24 | 0.88 | 42.12 | 74.00 | 31.88 | 150 | 106 | Peak |
| | 4 | 4804.59 | 43.78 | -4.61 | 39.17 | 54.00 | 14.83 | 150 | 46 | AV |
| 2 | 5 | 7206.21 | 39.55 | -1.76 | 37.79 | 54.00 | 16.21 | 150 | 78 | AV |
| | 6 | 9608.58 | 33.09 | 0.88 | 33.97 | 54.00 | 20.03 | 150 | 134 | AV |

Horizontal:



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 4803.84 | 54.29 | -4.61 | 49.68 | 74.00 | 24.32 | 150 | 69 | Peak |
| 2 | 7206.21 | 47.87 | -1.76 | 46.11 | 74.00 | 27.89 | 150 | 28 | Peak |
| 3 | 9608.58 | 41.44 | 0.88 | 42.32 | 74.00 | 31.68 | 150 | 137 | Peak |
| 4 | 4804.59 | 52.03 | -4.61 | 47.42 | 54.00 | 6.58 | 150 | 56 | AV |
| 5 | 7206.96 | 41.81 | -1.76 | 40.05 | 54.00 | 13.95 | 150 | 28 | AV |
| 6 | 9608.58 | 33.60 | 0.88 | 34.48 | 54.00 | 19.52 | 150 | 180 | AV |

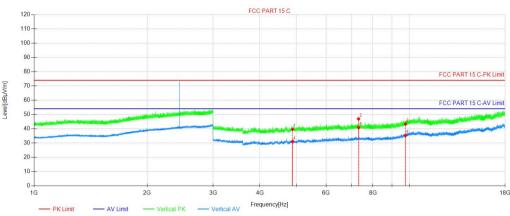
Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China



DH5 2441MHz

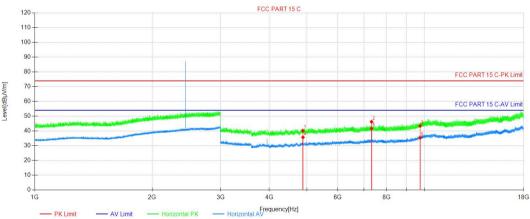
Vertical:



AV Detector

| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 4882.59 | 44.33 | -4.72 | 39.61 | 74.00 | 34.39 | 150 | 116 | Peak |
| 2 | 7322.46 | 48.41 | -1.49 | 46.92 | 74.00 | 27.08 | 150 | 88 | Peak |
| 3 | 9764.58 | 41.62 | 1.64 | 43.26 | 74.00 | 30.74 | 150 | 116 | Peak |
| 4 | 4882.59 | 35.60 | -4.72 | 30.88 | 54.00 | 23.12 | 150 | 158 | AV |
| 5 | 7323.96 | 42.32 | -1.49 | 40.83 | 54.00 | 13.17 | 150 | 88 | AV |
| 6 | 9764.58 | 33.61 | 1.64 | 35.25 | 54.00 | 18.75 | 150 | 116 | AV |

Horizontal:



| AV | Detector |
|----|----------|

| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 4882.59 | 44.87 | -4.72 | 40.15 | 74.00 | 33.85 | 150 | 30 | Peak |
| 2 | 7323.21 | 47.72 | -1.49 | 46.23 | 74.00 | 27.77 | 150 | 58 | Peak |
| 3 | 9764.58 | 41.76 | 1.64 | 43.40 | 74.00 | 30.60 | 150 | 155 | Peak |
| 4 | 4882.59 | 40.39 | -4.72 | 35.67 | 54.00 | 18.33 | 150 | 30 | AV |
| 5 | 7323.96 | 43.12 | -1.49 | 41.63 | 54.00 | 12.37 | 150 | 58 | AV |
| 6 | 9764.58 | 33.67 | 1.64 | 35.31 | 54.00 | 18.69 | 150 | 115 | AV |

Dongguan DN Testing Co., Ltd.

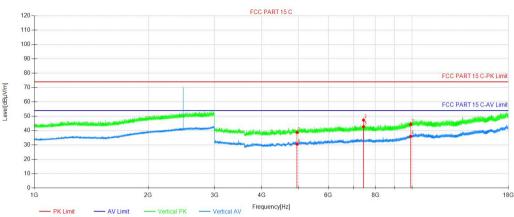
 Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

 Web: www.dn-testing.com
 Tel:+86-769-88087383
 E-mail: service@dn-testing.com



DH5 2480MHz

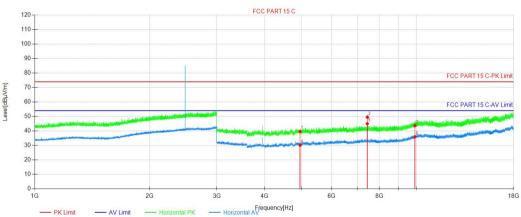
Vertical:



AV Detector

| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 4960.59 | 43.62 | -4.86 | 38.76 | 74.00 | 35.24 | 150 | 0 | Peak |
| 2 | 7440.22 | 48.68 | -1.34 | 47.34 | 74.00 | 26.66 | 150 | 78 | Peak |
| 3 | 9920.59 | 42.11 | 2.27 | 44.38 | 74.00 | 29.62 | 150 | 2 | Peak |
| 4 | 4960.59 | 35.42 | -4.86 | 30.56 | 54.00 | 23.44 | 150 | 119 | AV |
| 5 | 7440.97 | 44.06 | -1.34 | 42.72 | 54.00 | 11.28 | 150 | 78 | AV |
| 6 | 9920.59 | 33.71 | 2.27 | 35.98 | 54.00 | 18.02 | 150 | 10 | AV |

Horizontal:



AV Detector

| 5 | NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|---|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| | 1 | 4960.59 | 44.50 | -4.86 | 39.64 | 74.00 | 34.36 | 150 | 88 | Peak |
| | 2 | 7440.22 | 50.87 | -1.34 | 49.53 | 74.00 | 24.47 | 150 | 5 | Peak |
| 5 | 3 | 9920.59 | 41.37 | 2.27 | 43.64 | 74.00 | 30.36 | 150 | 88 | Peak |
| | 4 | 4960.59 | 34.95 | -4.86 | 30.09 | 54.00 | 23.91 | 150 | 5 | AV |
| | 5 | 7440.97 | 46.30 | -1.34 | 44.96 | 54.00 | 9.04 | 150 | 17 | AV |
| | 6 | 9920.59 | 33.66 | 2.27 | 35.93 | 54.00 | 18.07 | 150 | 117 | AV |



Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)

2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.

4. All channels had been pre-test,DH5 is teh worst case. only the worst case was reported.

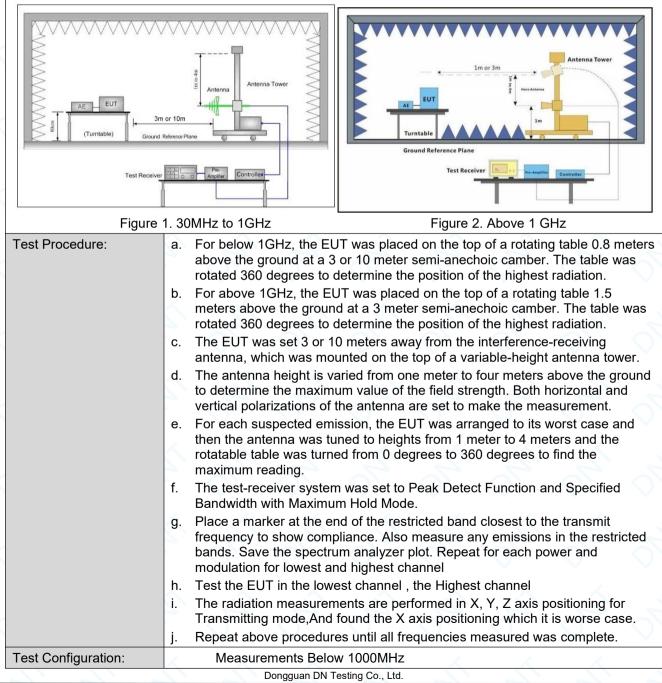


Report No.: DNT240894R1387-3136 Date: May 20, 2024 Page: 29 / 59

3.10 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section 1 | 5.209 and 15.205 | \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc | | | | | | |
|-------------------|---------------------------|---|---|--|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 Section | ANSI C63.10: 2013 Section 11.12 | | | | | | | |
| Test Site: | Measurement Distance: 3m | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) | | | | | | | |
| Limit: | Frequency | Limit (dBuV/m) | Remark | | | | | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak | | | | | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak | | | | | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak | | | | | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak | | | | | | |
| | | 54.0 | Average Value | | | | | | |
| | Above 1GHz | 74.0 | Peak Value | | | | | | |
| | | | | | | | | | |

Test Setup:



 Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

 Web: www.dn-testing.com
 Tel:+86-769-88087383

 E-mail: service@dn-testing.com

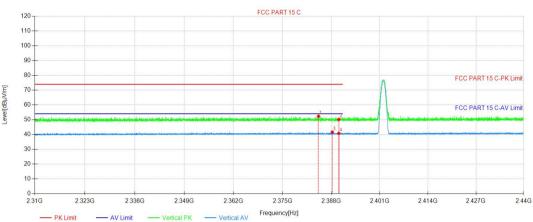


| Report No.: D | NT240894R1387-3136 Date: May 20, 2024 Page: 30 / 59 |
|------------------------|--|
| Report No.: D | NT240894R1387-3136Date: May 20, 2024Page: 30759• RBW = 120 kHz• VBW = 300 kHz• Detector = Peak• Trace mode = max holdPeak Measurements Above 1000 MHz• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW \geq 10 Hz, when duty cycle is no less than 98 percent.• VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimumtransmission duration over which the transmitter is on and is transmitting at its |
| | maximum power control level for the tested mode of operation. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. Transmitting mode. |
| Final Test Mode: | Pretest the EUT Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of all modulation type. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 2.9 for details |
| Test Results: | Pass |



Test Date DH5 2402MHz

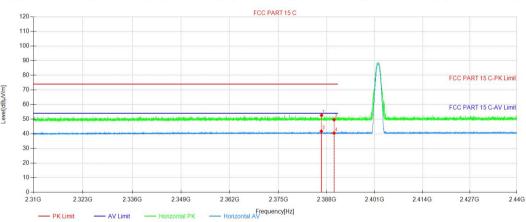
Vertical:



AV Detector

| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | AV Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|----------------------|----------------|----------------|--------------|--------|
| 1 | 2384.58 | 53.16 | -0.82 | 52.34 | 74.00 | 21.66 | 150 | 291 | Peak |
| 2 | 2390.01 | 51.02 | -0.80 | 50.22 | 74.00 | 23.78 | 150 | 360 | Peak |
| 3 | 2388.25 | 42.40 | -0.80 | 41.60 | 54.00 | 12.40 | 150 | 262 | AV |
| 4 | 2390.01 | 41.58 | -0.80 | 40.78 | 54.00 | 13.22 | 150 | 327 | AV |

Horizontal:



AV Detector

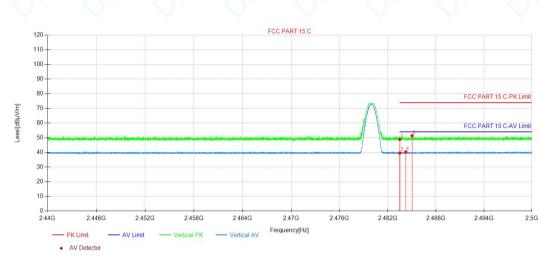
| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | AV Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|----------------------|----------------|----------------|--------------|--------|
| 1 | 2386.62 | 53.43 | -0.81 | 52.62 | 74.00 | 21.38 | 150 | 264 | Peak |
| 2 | 2390.01 | 50.45 | -0.80 | 49.65 | 74.00 | 24.35 | 150 | 114 | Peak |
| 3 | 2386.57 | 42.53 | -0.81 | 41.72 | 54.00 | 12.28 | 150 | 178 | AV |
| 4 | 2390.01 | 41.31 | -0.80 | 40.51 | 54.00 | 13.49 | 150 | 264 | AV |



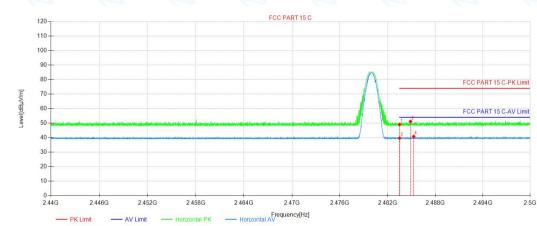
DH5 2480MHz



Horizontal:



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 2483.50 | 49.19 | -0.29 | 48.90 | 74.00 | 25.10 | 150 | 89 | Peak |
| 2 | 2485.02 | 51.63 | -0.27 | 51.36 | 74.00 | 22.64 | 150 | 208 | Peak |
| 3 | 2483.50 | 39.86 | -0.29 | 39.57 | 54.00 | 14.43 | 150 | 76 | AV |
| 4 | 2484.25 | 40.59 | -0.28 | 40.31 | 54.00 | 13.69 | 150 | 239 | AV |



AV Detector

| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|
| 1 | 2483.50 | 49.36 | -0.29 | 49.07 | 74.00 | 24.93 | 150 | 339 | Peak |
| 2 | 2484.89 | 51.44 | -0.27 | 51.17 | 74.00 | 22.83 | 150 | 231 | Peak |
| 3 | 2483.50 | 39.98 | -0.29 | 39.69 | 54.00 | 14.31 | 150 | 9 | AV |
| 4 | 2485.29 | 41.12 | -0.27 | 40.85 | 54.00 | 13.15 | 150 | 40 | AV |

Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe

including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor ,Cable Factor etc.

2.All channels had been pre-test, only the worst case was reported.



| Test Requirement: | 47 CFR Part 15C Section | 15.207 | | | | | | | |
|------------------------|--|---|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 | A 12 | 7 7 | | | | | | |
| Test Frequency Range: | 150kHz to 30MHz | 150kHz to 30MHz | | | | | | | |
| Limit: | | Limit (dBuV) | | | | | | | |
| | Frequency range (MHz) | 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 logar | rithm of the frequency. | | | | | | | |
| Test Procedure: | The mains terminal disroom. The EUT was connected Impedance Stabilization N impedance. The power car a second LISN 2, which we plane in the same way as multiple socket outlet stripsingle LISN provided the ragional reference plane. A placed on the horizontal g The test was performent of the EUT shall be 0.4 m vertical ground reference plane. The LISN unit under test and bonder mounted on top of the group between the closest points the EUT and associated e In order to find the maximum equipment and all of the important of the important of the important of the first of the first of the maximum equipment and all of the important of the first of the fi | ed to AC power source the letwork) which provides a bles of all other units of the as bonded to the ground the LISN 1 for the unit be was used to connect mu- rating of the LISN was not placed upon a non-metal and for floor-standing array round reference plane, d with a vertical ground re- from the vertical ground re- from the vertical ground re- plane was bonded to the 1 was placed 0.8 m from d to a ground reference p und reference plane. This is of the LISN 1 and the El- quipment was at least 0.8 um emission, the relative interface cables must be c | rough a LISN 1 (Line $50\Omega/50\mu$ H + 5Ω linear ne EUT were connected reference ing measured. A ltiple power cables to a exceeded. lic table 0.8m above the ngement, the EUT was eference plane. The rear reference plane. The rear reference plane. The horizontal ground in the boundary of the lane for LISNs is distance was UT. All other units of 8 m from the LISN 2. positions of | | | | | | |
| Test Setup: | Shielding Room | | Test Receiver | | | | | | |
| | AC Mains | Ground Reference Plane | AC Mains | | | | | | |
| Exploratory Test Mode: | AC Mains | Ground Reference Plane | AC Mains | | | | | | |

3.11 AC Power Line Conducted Emissions

 Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

 Web: www.dn-testing.com
 Tel:+86-769-88087383
 E-mail: service@dn-testing.com

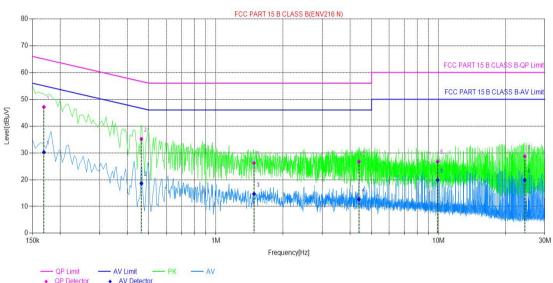


| Report No.: DNT2 | 40894R1387-3136 Date: May 20, 2024 Page: 34 / 59 |
|-------------------|--|
| Final Test Mode: | Through Pre-scan, find the the worst case. |
| Instruments Used: | Refer to section 2.9 for details |
| Test Results: | PASS |

Measurement Data

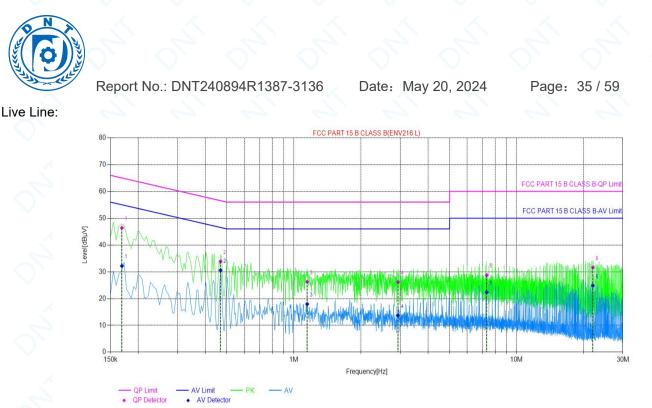
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Neutral Line:



| NO. | Freq. [MHz] | Correct Factor [dB] | QP Reading Level [dBµV] | QP Result Level [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading Level [dBµV] | AV Result Level [dBµV] | AV Limit [dBµV] | AV Margin [dB] |
|-----|----------------|---------------------------|----------------------------------|---------------------------------|-----------------------|----------------------|----------------------------------|---------------------------------|--------------------|----------------------|
| 1 | 0.168 | 9.82 | 37.32 | 47.14 | 65.02 | 17.88 | 20.4 | 30.22 | 55.02 | 24.80 |
| 2 | 0.462 | 9.77 | 25.44 | 35.21 | 56.65 | 21.44 | 8.83 | 18.60 | 46.65 | 28.05 |
| 3 | 1.483 | 9.73 | 16.52 | 26.25 | 56.00 | 29.75 | 4.96 | 14.69 | 46.00 | 31.31 |
| 4 | 4.384 | 9.97 | 16.85 | 26.82 | 56.00 | 29.18 | 2.7 | 12.67 | 46.00 | 33.33 |
| 5 | 9.899 | 9.81 | 17.02 | 26.83 | 60.00 | 33.17 | 10.04 | 19.85 | 50.00 | 30.15 |
| 6 | 24.363 | 10.14 | 18.61 | 28.75 | 60.00 | 31.25 | 9.7 | 19.84 | 50.00 | 30.16 |
| | | | | | | | | | | |

AV Detector



| NO. | Freq. [MHz] | Correct Factor [dB] | QP Reading Level [dBµV] | QP Result Level [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading Level [dBµV] | AV Result Level [dBµV] | AV Limit [dBµV] | AV Margin [dB] |
|-----|----------------|---------------------------|----------------------------------|---------------------------------|-----------------------|----------------------|----------------------------------|---------------------------------|--------------------|----------------------|
| 1 | 0.1779 | 9.91 | 30.86 | 40.77 | 64.58 | 23.81 | 16.34 | 26.25 | 54.58 | 28.33 |
| 2 | 0.5884 | 9.83 | 23.92 | 33.75 | 56.00 | 22.25 | 18.56 | 28.39 | 46.00 | 17.61 |
| 3 | 1.7573 | 9.73 | 19.79 | 29.52 | 56.00 | 26.48 | 12.93 | 22.66 | 46.00 | 23.34 |
| 4 | 2.9366 | 9.74 | 22.91 | 32.65 | 56.00 | 23.35 | 17.23 | 26.97 | 46.00 | 19.03 |
| 5 | 9.0486 | 9.87 | 16.94 | 26.81 | 60.00 | 33.19 | 0.7 | 10.57 | 50.00 | 39.43 |
| 6 | 22.119 | 10.16 | 12.09 | 22.25 | 60.00 | 37.75 | -1.28 | 8.88 | 50.00 | 41.12 |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe

including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor etc



4 Appendix

Appendix A: 20dB Emission Bandwidth

| Test Result | \mathbf{O} | \bigcirc | | \cap | | \sim | |
|-------------|--------------|------------|---------------|----------|----------|------------|---------|
| Test Mode | Antenna | Freq(MHz) | 20dB EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
| | ~ | 2402 | 0.948 | 2401.532 | 2402.480 | 🔨 | < |
| DH5 | Ant1 | 2441 | 0.960 | 2440.526 | 2441.486 | | |
| | | 2480 | 0.948 | 2479.523 | 2480.471 | | |
| | \sim | 2402 | 1.320 | 2401.331 | 2402.651 | | |
| 2DH5 | Ant1 | 2441 | 1.323 | 2440.328 | 2441.651 | | |
| | | 2480 | 1.293 | 2479.349 | 2480.642 | 🔨 | |