

FCC Test Report

Application No.: DNT2407220165R0389-01227

Applicant: Dongguan Yongfang Electronics Technology Co., Ltd.

Address of NO.12, Long'an Road, The 2'nd Industrial Zone, Shigu, Tangxia, Dongguan,

Applicant: 523729, China

EUT Description: Active Noise Cancelling Wireless Headphones

Model No.: ANC-6090

FCC ID: 2ACYR-ANC6090D

Power Supply: DC 3.7V From Battery

Charging Voltage: DC 5V

Trade Mark:

47 CFR FCC Part 2, Subpart J

Standards: 47 CFR Part 15, Subpart C

ANSI C63.10: 2020

Date of Receipt: 2024/07/15

Date of Test: 2024/07/15 to 2024/07/24

Date of Issue: 2024/07/24

Test Result: PASS

Prepared By: Wayne Jin (Testing Engineer)

Reviewed By: (Project Engineer)

Approved By: _____ (Manager)



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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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | | Jul.24, 2024 | Valid | Original Report |



1 Test Summary

| Test Item | Test Requirement | Test Method | Test Result | Result |
|---|--|-------------------|-------------|--------|
| Antenna Requirement | 15.203/247(b) | 1 2 | Clause 3.1 | PASS |
| 20dB Emission Bandwidth | 15.247 (a)(1) | ANSI C63.10: 2020 | Clause 3.2 | PASS |
| Conducted Peak Output Power | 15.247 (b)(1) | ANSI C63.10: 2020 | Clause 3.3 | PASS |
| Carrier Frequencies Separation | 15.247 (a)(1) | ANSI C63.10: 2020 | Clause 3.4 | PASS |
| Dwell Time | 15.247 (a)(1) | ANSI C63.10: 2020 | Clause 3.5 | PASS |
| Hopping Channel Number | 15.247 (a)(1) | ANSI C63.10: 2020 | Clause 3.6 | PASS |
| Band-edge for RF Conducted Emissions | 15.247(d) | ANSI C63.10: 2020 | Clause 3.7 | PASS |
| RF Conducted Spurious Emissions | 15.247(d) | ANSI C63.10: 2020 | Clause 3.8 | PASS |
| Radiated Spurious emissions | 15.247(d); | ANSI C63.10: 2020 | Clause 3.9 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.205/15.209 15.247(d); 15.205/15.209 | ANSI C63.10: 2020 | Clause 3.10 | PASS |
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10: 2020 | Clause 3.11 | PASS |

Note:

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



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| Apper | ndix F: Conducted Spurious Emission | |



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 |



2.2 General Description of EUT

| Manufacturer: | Dongguan Yongfang Electronics Technology Co., Ltd. |
|--------------------------|--|
| Address of Manufacturer: | NO.12, Long'an Road, The 2'nd Industrial Zone, Shigu, Tangxia, Dongguan, 523729, China |
| Test EUT Description: | Active Noise Cancelling Wireless Headphones |
| Model No.: | ANC-6090 |
| Additional Model(s): | AIRPHONE DNC 3000, 71129 |
| Chip Type: | AC7006F8 |
| Serial number: | PR2407220165R0389 |
| Power Supply: | DC 3.7V From Battery |
| 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,8DPSK |
| Sample Type: | |
| Antenna Type: | ☐ External, ⊠ Integrated |
| Antenna Ports: | |
| Antonno Coint. | ⊠ Provided by applicant |
| Antenna Gain*: | 2.5dBi |
| | ⊠ 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:

^{*}All models are just color differences, motherboard, PCB circuit board, chip, electronic components, appearance is all the same.

^{*}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 | | |

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 |



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. | | | |



2.5 Power Setting of Test Software

| Software Name | Software Name FCC_assist_1.0.2.2.exe | | | |
|-------------------|--------------------------------------|------|------|--|
| Frequency(MHz) | 2402 | 2441 | 2480 | |
| GFSK Setting | 10 | 10 | 10 | |
| π/4-DQPSK Setting | 10 | 10 | 10 | |
| 8DPSK | 10 | 10 | 10 | |

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. CAB identifier is CN0149.

IC#: 30755.

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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) | | |
| | 0, 0, 0, 0, 0, | ± 4.8dB (Below 1GHz) | | |
| 2 | Dedicted Emission | ± 4.8dB (1GHz to 6GHz) | | |
| 2 | Radiated Emission | ± 4.5dB (6GHz to 18GHz) | | |
| | 0 0 0 0 0 0 0 | ± 5.02dB (Above 18GHz) | | |

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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 | | |

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| | Test Equipment for Conducted Emission | | | | | | | | | | |
|---|---------------------------------------|-----------|--------------|------------|------------|--|--|--|--|--|--|
| Description Manufacturer Model Serial Number Cal Date Due [| | | | | | | | | | | |
| 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 | |



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| Test E | quipment for I | Radiated Emis | ssion(Above | 1000MHz | z) |
|---------------------------------|----------------|----------------------------|---------------|------------|------------|
| 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 |



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B 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.

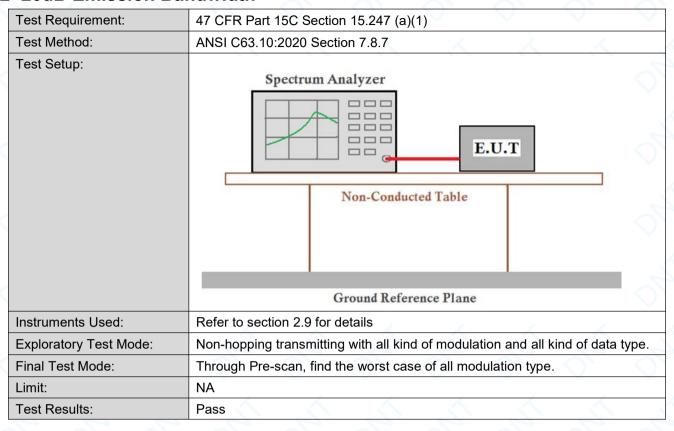
15.247(b) (4) requirement:

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 3.87dBi.



3.2 20dB Emission Bandwidth

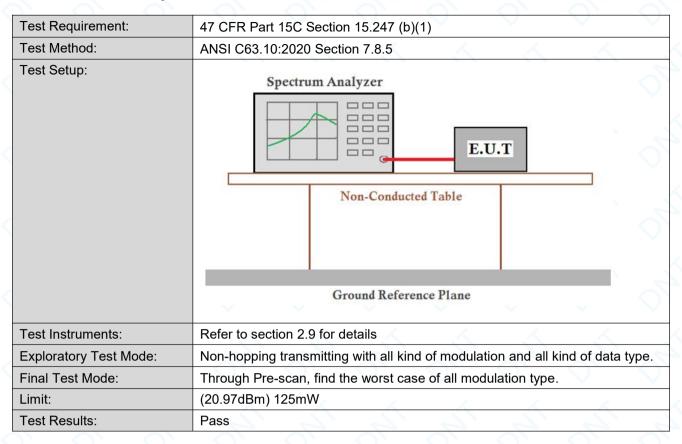


The detailed test data see: Appendix A



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3.3 Conducted Output Power

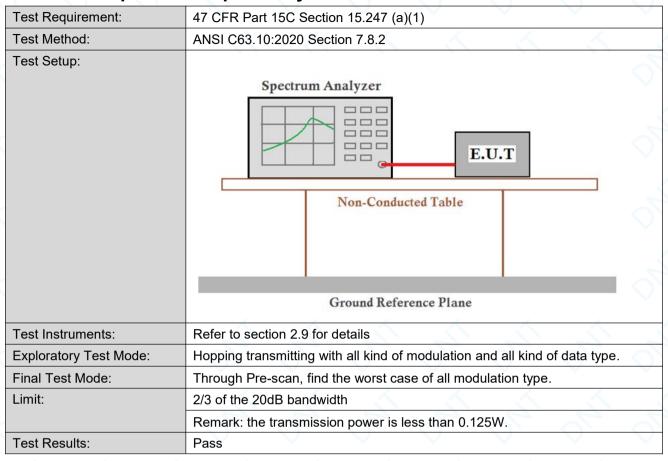


The detailed test data see: Appendix B



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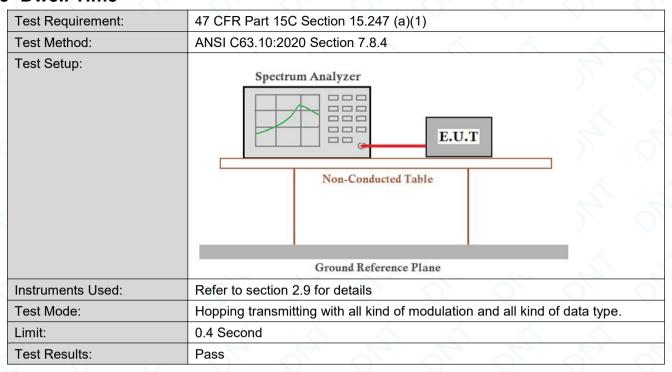
3.4 Carrier Frequencies Separationy



The detailed test data see: Appendix C



3.5 Dwell Time



The detailed test data see: Appendix D



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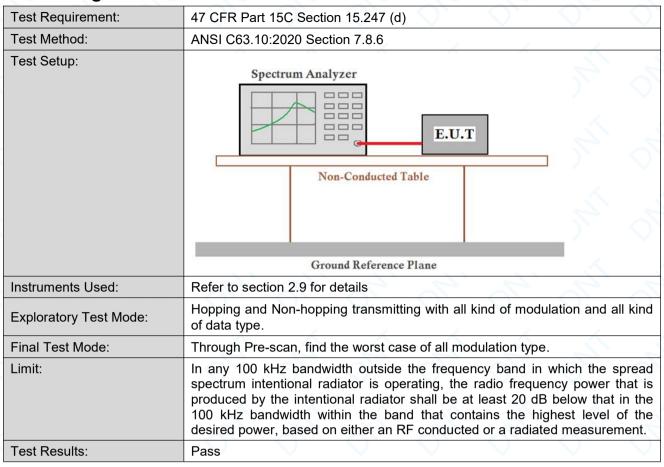
3.6 Hopping Channel Number

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) | | |
|-------------------|--|---|-------|
| Test Method: | ANSI C63.10:2020 Section 7.8.3 | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table | | 9, 9, |
| | Ground Reference Plane | | |
| Instruments Used: | Refer to section 2.9 for details | | |
| Test Mode: | Hopping transmitting with all kind of modulation | | |
| Limit: | At least 15 channels | | |
| Test Results: | Pass | 4 | |

The detailed test data see: Appendix E



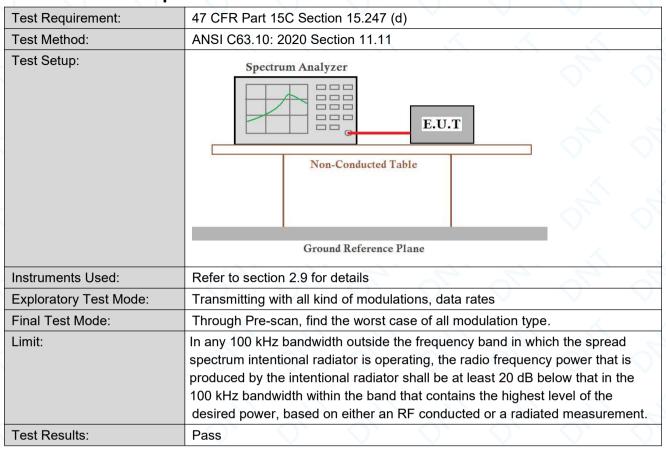
3.7 Band-edge for RF Conducted Emissions



The detailed test data see: Appendix F



3.8 RF Conducted Spurious Emissions



The detailed test data see: Appendix G



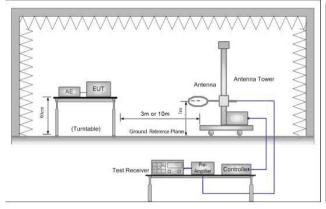
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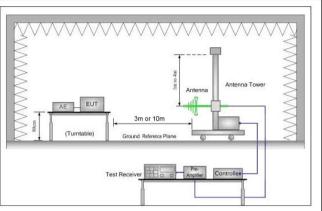
3.9 Radiated Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Sectio | n 15.209 and 15.20 | 05 | | ~ |
|-------------------|---|---|-------------------|---------------------------|--------------------------|
| Test Method: | ANSI C63.10: 2020 Sect | ion 11.12 | | | |
| Test Site: | Measurement Distance: | 3m or 10m (Semi- | Anechoic Ch | amber) | 6 7 |
| 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 |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | (DC<0.98) Remark | Measurement distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - / | -< | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | (-) | 30 |
| | 1.705MHz-30MHz | 30 | <u> </u> | <u> </u> | 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 |
| | Remark: 15.35(b),Unless emissions is 20dB above applicable to the equipm emission level radiated by | e the maximum per ent under test. This | mitted avera | ge emission lir | nit |

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Test Setup:





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Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

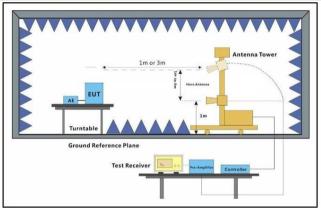


Figure 3. Above 1 GHz

Test 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 camber. 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 semi-anechoic camber. 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

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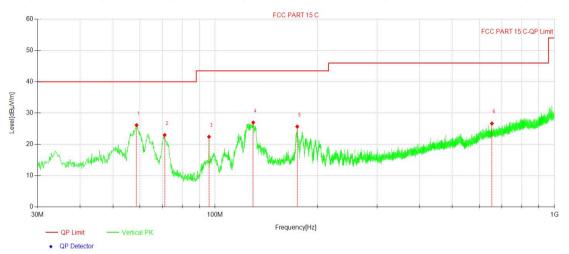
| | Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. |
|------------------------|---|
| Test Configuration: | Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 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 |



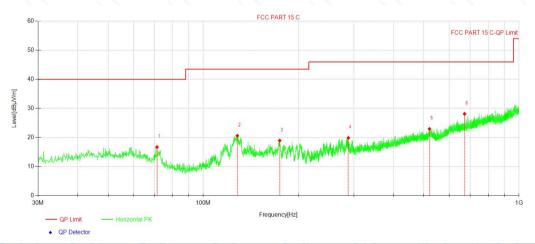
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Test data

For 30-1000MHz



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/ m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-----------------------|----------------|----------------|-----------|--------|----------|
| 1 | 58.71 | 34.75 | -8.62 | 26.13 | 40.00 | 13.87 | 100 | 182 | QP | Vertical |
| 2 | 71.03 | 33.23 | -10.26 | 22.97 | 40.00 | 17.03 | 100 | 91 | QP | Vertical |
| 3 | 95.96 | 35.63 | -13.22 | 22.41 | 43.50 | 21.09 | 100 | 177 | QP | Vertical |
| 4 | 129.53 | 36.43 | -9.46 | 26.97 | 43.50 | 16.53 | 100 | 47 | QP | Vertical |
| 5 | 174.64 | 34.38 | -8.71 | 25.67 | 43.50 | 17.83 | 100 | 52 | QP | Vertical |
| 6 | 654.16 | 25.16 | 1.49 | 26.65 | 46.00 | 19.35 | 100 | 1 | QP | Vertical |



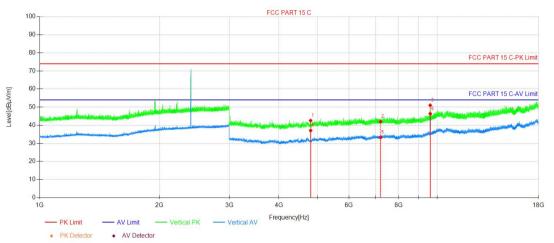
| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|------------|
| 1 | 71.42 | 27.05 | -10.35 | 16.70 | 40.00 | 23.30 | 200 | 174 | QP | Horizontal |
| 2 | 128.27 | 30.17 | -9.57 | 20.60 | 43.50 | 22.90 | 200 | 134 | QP | Horizontal |
| 3 | 174.64 | 27.64 | -8.71 | 18.93 | 43.50 | 24.57 | 100 | 284 | QP | Horizontal |
| 4 | 288.14 | 27.16 | -7.29 | 19.87 | 46.00 | 26.13 | 100 | 233 | QP | Horizontal |
| 5 | 520.57 | 24.16 | -1.20 | 22.96 | 46.00 | 23.04 | 200 | 65 | QP | Horizontal |
| 6 | 672.10 | 26.37 | 1.77 | 28.14 | 46.00 | 17.86 | 100 | 137 | QP | Horizontal |



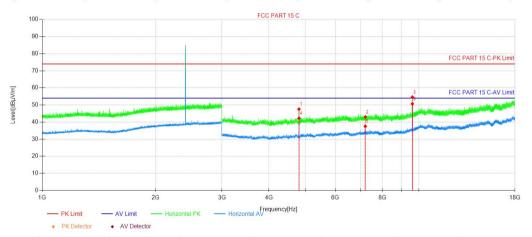
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For above 1GHz 3DH5 2402MHz



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Heigh t [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|--------------------|--------------|--------|----------|
| 1 | 4803.84 | 47.19 | -4.61 | 42.58 | 74.00 | 31.42 | 150 | 132 | Peak | Vertical |
| 2 | 7206.21 | 43.79 | -1.76 | 42.03 | 74.00 | 31.97 | 150 | 122 | Peak | Vertical |
| 3 | 9608.58 | 50.15 | 0.88 | 51.03 | 74.00 | 22.97 | 150 | 110 | Peak | Vertical |
| 4 | 4804.59 | 41.67 | -4.61 | 37.06 | 54.00 | 16.94 | 150 | 132 | AV | Vertical |
| 5 | 7206.21 | 35.01 | -1.76 | 33.25 | 54.00 | 20.75 | 150 | 35 | AV | Vertical |
| 6 | 9609.33 | 45.52 | 0.88 | 46.40 | 54.00 | 7.60 | 150 | 110 | AV | Vertical |



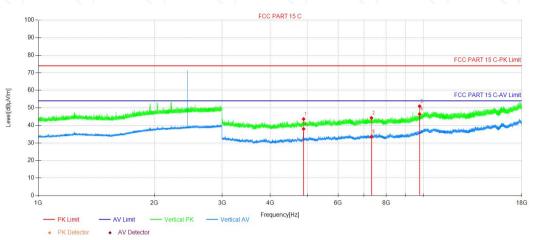
| \ | NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|---|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|----------|
| Ī | 1 | 4803.84 | 52.15 | -4.61 | 47.54 | 74.00 | 26.46 | 150 | 132 | Peak | Horizon |
| | 2 | 7206.21 | 44.75 | -1.76 | 42.99 | 74.00 | 31.01 | 150 | 23 | Peak | Horizon |
| | 3 | 9608.58 | 53.69 | 0.88 | 54.57 | 74.00 | 19.43 | 150 | 110 | Peak | Horizon |
| | 4 | 4804.59 | 46.84 | -4.61 | 42.23 | 54.00 | 11.77 | 150 | 57 | AV | Horizon |
| | 5 | 7206.96 | 39.27 | -1.76 | 37.51 | 54.00 | 16.49 | 150 | 79 | AV | Horizon |
| | 6 | 9609.33 | 49.76 | 0.88 | 50.64 | 54.00 | 3.36 | 150 | 110 | AV | Horizon |



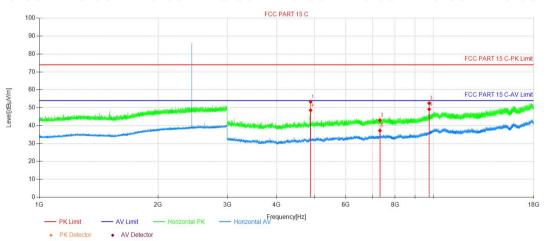
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3DH5 2441MHz



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|----------|
| 1 | 4882.59 | 48.35 | -4.72 | 43.63 | 74.00 | 30.37 | 150 | 280 | Peak | Vertical |
| 2 | 7323.21 | 45.77 | -1.49 | 44.28 | 74.00 | 29.72 | 150 | 67 | Peak | Vertical |
| 3 | 9764.58 | 49.30 | 1.64 | 50.94 | 74.00 | 23.06 | 150 | 110 | Peak | Vertical |
| 4 | 4882.59 | 42.72 | -4.72 | 38.00 | 54.00 | 16.00 | 150 | 280 | AV | Vertical |
| 5 | 7323.21 | 34.98 | -1.49 | 33.49 | 54.00 | 20.51 | 150 | 154 | AV | Vertical |
| 6 | 9765.33 | 44.82 | 1.65 | 46.47 | 54.00 | 7.53 | 150 | 110 | AV | Vertical |



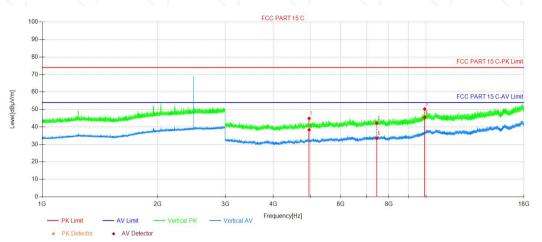
| | NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|---|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|-----------|--------|----------|
| | 1 | 4882.59 | 57.98 | -4.72 | 53.26 | 74.00 | 20.74 | 150 | 57 | Peak | Horizon |
| | 2 | 7323.21 | 44.55 | -1.49 | 43.06 | 74.00 | 30.94 | 150 | 112 | Peak | Horizon |
| | 3 | 9764.58 | 50.88 | 1.64 | 52.52 | 74.00 | 21.48 | 150 | 90 | Peak | Horizon |
| | 4 | 4882.59 | 53.30 | -4.72 | 48.58 | 54.00 | 5.42 | 150 | 57 | AV | Horizon |
| ſ | 5 | 7323.96 | 38.71 | -1.49 | 37.22 | 54.00 | 16.78 | 150 | 68 | AV | Horizon |
| | 6 | 9765.33 | 47.49 | 1.65 | 49.14 | 54.00 | 4.86 | 150 | 79 | AV | Horizon |



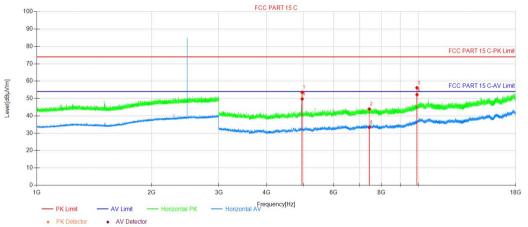
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DH5 2480MHz



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|-----------|--------|----------|
| 1 | 4959.84 | 49.74 | -4.86 | 44.88 | 74.00 | 29.12 | 150 | 275 | Peak | Vertical |
| 2 | 7440.22 | 43.46 | -1.34 | 42.12 | 74.00 | 31.88 | 150 | 3 | Peak | Vertical |
| 3 | 9920.59 | 47.99 | 2.27 | 50.26 | 74.00 | 23.74 | 150 | 176 | Peak | Vertical |
| 4 | 4960.59 | 43.16 | -4.86 | 38.30 | 54.00 | 15.70 | 150 | 286 | AV | Vertical |
| 5 | 7440.22 | 34.75 | -1.34 | 33.41 | 54.00 | 20.59 | 150 | 34 | AV | Vertical |
| 6 | 9921.34 | 43.23 | 2.27 | 45.50 | 54.00 | 8.50 | 150 | 188 | AV | Vertical |



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|----------|
| 1 | 4960.59 | 58.41 | -4.86 | 53.55 | 74.00 | 20.45 | 150 | 67 | Peak | Horizon |
| 2 | 7440.22 | 45.29 | -1.34 | 43.95 | 74.00 | 30.05 | 150 | 79 | Peak | Horizon |
| 3 | 9920.59 | 53.90 | 2.27 | 56.17 | 74.00 | 17.83 | 150 | 101 | Peak | Horizon |
| 4 | 4960.59 | 54.59 | -4.86 | 49.73 | 54.00 | 4.27 | 150 | 57 | AV | Horizon |
| 5 | 7440.22 | 34.62 | -1.34 | 33.28 | 54.00 | 20.72 | 150 | 210 | AV | Horizon |
| 6 | 9921.34 | 49.93 | 2.27 | 52.20 | 54.00 | 1.80 | 150 | 101 | AV | Horizon |



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Note:

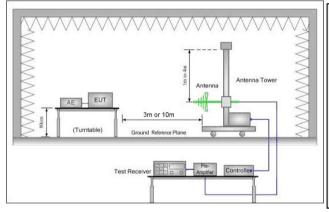
- 1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:
 - Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)
- 2. The amplitude of 9KHz to 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 the worst case, only the worst case was reported.



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3.10 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section 1 | 5.209 and 15.205 | | | | | | | |
|-------------------|---|---------------------------------|---------------|--|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2020 Section | ANSI C63.10: 2020 Section 11.12 | | | | | | | |
| Test Site: | 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 | | | | | | |
| | Ab 4011- | 54.0 | Average Value | | | | | | |
| | Above 1GHz | 74.0 | Peak Value | | | | | | |
| Test Setup: | | | 0, 0, (| | | | | | |



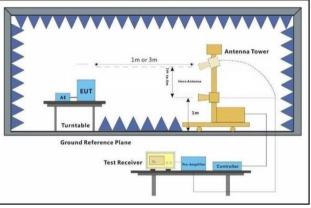


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test 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 camber. 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 semi-anechoic camber. 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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- h. Test the EUT in the lowest 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 worse case.
- . Repeat above procedures until all frequencies measured was complete.

Test Configuration:

Measurements Below 1000MHz

Dongguan DN Testing Co., Ltd.

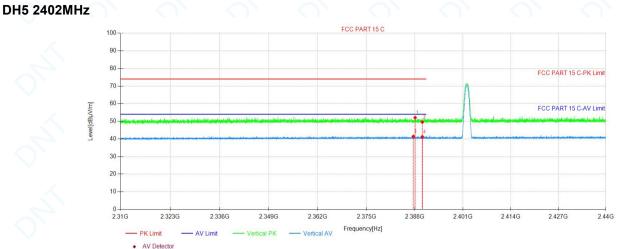
| Poport No : DN | T2407220165R0389-01227 Date: July 24, 2024 Page: 30 / 66 |
|------------------------|---|
| Nepolt NO DIV | RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 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. 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 |



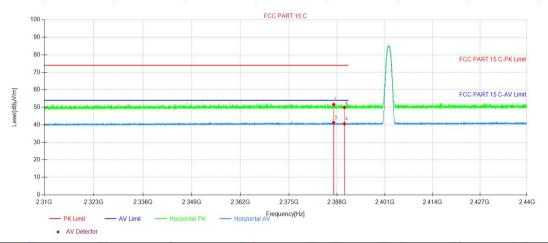
Report No.: DNT2407220165R0389-01227

Test Date

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| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | AV Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|----------------------|----------------|----------------|--------------|--------|----------|
| 1 | 2388.08 | 52.88 | -0.80 | 52.08 | 74.00 | 21.92 | 150 | 12 | Peak | Vertical |
| 2 | 2390.01 | 50.35 | -0.80 | 49.55 | 74.00 | 24.45 | 150 | 340 | Peak | Vertical |
| 3 | 2387.61 | 42.24 | -0.80 | 41.44 | 54.00 | 12.56 | 150 | 57 | AV | Vertical |
| 4 | 2390.01 | 41.99 | -0.80 | 41.19 | 54.00 | 12.81 | 150 | 88 | AV | Vertical |

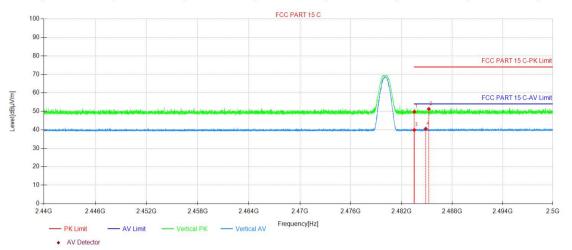


| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | AV Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|----------------------|----------------|----------------|--------------|--------|----------|
| 1 | 2387.11 | 52.47 | -0.81 | 51.66 | 74.00 | 22.34 | 150 | 181 | Peak | Horizon |
| 2 | 2390.01 | 50.75 | -0.80 | 49.95 | 74.00 | 24.05 | 150 | 181 | Peak | Horizon |
| 3 | 2387.08 | 42.11 | -0.81 | 41.30 | 54.00 | 12.70 | 150 | 258 | AV | Horizon |
| 4 | 2390.01 | 41.43 | -0.80 | 40.63 | 54.00 | 13.37 | 150 | 122 | AV | Horizon |

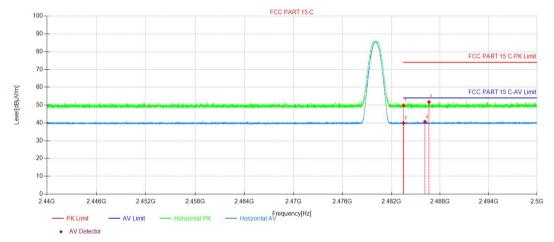


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DH5 2480MHz



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|-----------|--------|----------|
| 1 | 2483.51 | 50.03 | -0.29 | 49.74 | 74.00 | 24.26 | 150 | 30 | Peak | Vertical |
| 2 | 2485.24 | 51.53 | -0.27 | 51.26 | 74.00 | 22.74 | 150 | 185 | Peak | Vertical |
| 3 | 2483.51 | 40.16 | -0.29 | 39.87 | 54.00 | 14.13 | 150 | 325 | AV | Vertical |
| 4 | 2484.87 | 40.83 | -0.27 | 40.56 | 54.00 | 13.44 | 150 | 158 | AV | Vertical |



| NO. | Freq. [MHz] | Reading Level [dBµV] | Correct Factor [dB/m] | Result Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Remark | Polarity |
|-----|----------------|----------------------------|-----------------------------|-----------------------------|-------------------|----------------|----------------|--------------|--------|----------|
| 1 | 2483.50 | 50.02 | -0.29 | 49.73 | 74.00 | 24.27 | 150 | 40 | Peak | Horizon |
| 2 | 2486.64 | 51.94 | -0.26 | 51.68 | 74.00 | 22.32 | 150 | 190 | Peak | Horizon |
| 3 | 2483.51 | 40.16 | -0.29 | 39.87 | 54.00 | 14.13 | 150 | 227 | AV | Horizon |
| 4 | 2486.15 | 40.90 | -0.27 | 40.63 | 54.00 | 13.37 | 150 | 77 | AV | Horizon |

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.

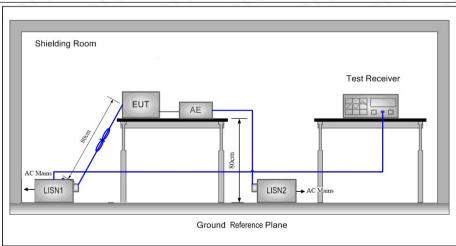
2.All channels had been pre-test, DH5 is the worst case, only the worst case was reported.



3.11 AC Power Line Conducted Emissions

| 47 CFR Part 15C Section 15.207 | | | | | | | |
|--|---|--|--|--|--|--|--|
| ANSI C63.10: 2020 | | | | | | | |
| 150kHz to 30MHz | | | | | | | |
| F (MIL) | 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 logarit | hm of the frequency. | | | | | | |
| room. 2) The EUT was connected Impedance Stabilization Ne impedance. The power caba a second LISN 2, which was plane in the same way as the multiple socket outlet strip was ingle LISN provided the ration of the tabletop EUT was provided on the horizontal ground reference plane. An placed on the horizontal ground of the EUT shall be 0.4 m frowertical ground reference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points of the EUT and associated equal of the interest of the in | I to AC power source the twork) which provides a les of all other units of the bonded to the ground he LISN 1 for the unit be was used to connect multing of the LISN was not laced upon a non-metal d for floor-standing arrangement are vertical ground reference plane, with a vertical ground reane was bonded to the late was placed 0.8 m from to a ground reference plane. This of the LISN 1 and the Eleuipment was at least 0.8 m emission, the relative erface cables must be cited. | rough a LISN 1 (Line 50Ω/50μH + 5Ω linear ne EUT were connected to reference ing measured. A stiple power cables to a exceeded. It table 0.8m above the regement, the EUT was reference plane. The rear reference plane. The norizontal ground in the boundary of the lane for LISNs a distance was JT. All other units of 8 m from the LISN 2. positions of | | | | | |
| | ANSI C63.10: 2020 150kHz to 30MHz Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * Decreases with the logarit 1) The mains terminal disturoom. 2) The EUT was connected Impedance Stabilization Ne impedance. The power cable a second LISN 2, which was plane in the same way as the multiple socket outlet strip was ingle LISN provided the rate 3) The tabletop EUT was placed on the horizontal ground reference plane. And placed on the horizontal ground reference plane. The LISN funit under test and bonded mounted on top of the ground between the closest points of the EUT and associated equal or order to find the maximum equipment and all of the interest. | ANSI C63.10: 2020 150kHz to 30MHz Frequency range (MHz) Quasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was | | | | | |

Test Setup:



Exploratory Test Mode:

Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.

Charge + Transmitting mode.

Dongguan DN Testing Co., Ltd.

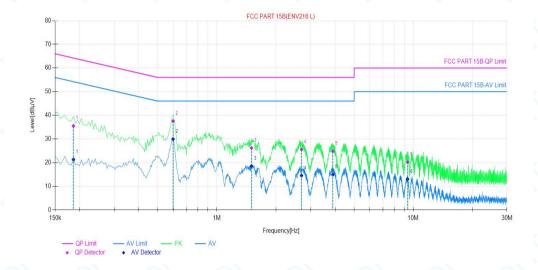
| 7220165R0389-01227 | Date: July 24, 2024 | Page: 34 / 66 | |
|-------------------------------|---------------------|---------------|--|
| Through Pre-scan find the the | worst case | | |

| 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.

Live Line:

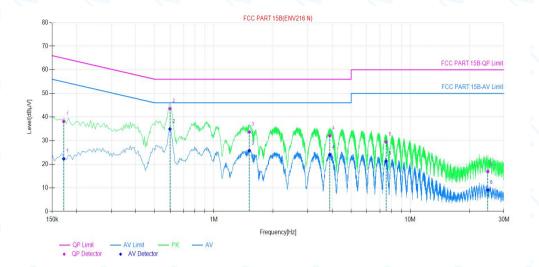


| | NO. | Freq. [MHz] | Correct Factor [dB] | QP Reading Level [dΒμV] | QP Result Level [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading Level [dΒμV] | AV Result Level [dBµV] | AV Limit [dΒμV] | AV Margin [dB] |
|---|-----|----------------|---------------------------|----------------------------------|---------------------------------|-----------------------|----------------------|----------------------------------|---------------------------------|--------------------|----------------------|
| | 1 | 0.18 | 9.92 | 25.57 | 35.49 | 64.22 | 28.73 | 11.39 | 21.31 | 54.22 | 32.91 |
| | 2 | 0.59 | 9.82 | 27.75 | 37.57 | 56.00 | 18.43 | 20.13 | 29.95 | 46.00 | 16.05 |
| | 3 | 1.50 | 9.73 | 16.44 | 26.17 | 56.00 | 29.83 | 8.83 | 18.56 | 46.00 | 27.44 |
| | 4 | 2.70 | 9.74 | 15.82 | 25.56 | 56.00 | 30.44 | 4.77 | 14.51 | 46.00 | 31.49 |
| | 5 | 3.89 | 9.75 | 15.02 | 24.77 | 56.00 | 31.23 | 7.18 | 16.93 | 46.00 | 29.07 |
| Y | 6 | 9.36 | 9.86 | 10.38 | 20.24 | 60.00 | 39.76 | 3.17 | 13.03 | 50.00 | 36.97 |



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Neutral Line:



| NO. | Freq. [MHz] | Correct Factor [dB] | QP Reading Level [dΒμV] | QP Result Level [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading Level [dΒμV] | AV Result Level [dBµV] | AV Limit [dΒμV] | AV Margin [dB] |
|-----|----------------|---------------------------|----------------------------------|---------------------------------|-----------------------|----------------------|----------------------------------|---------------------------------|--------------------|----------------------|
| 1 | 0.17 | 9.82 | 28.32 | 38.14 | 64.87 | 26.73 | 12.5 | 22.32 | 54.87 | 32.55 |
| 2 | 0.59 | 9.78 | 33.76 | 43.54 | 56.00 | 12.46 | 25.14 | 34.92 | 46.00 | 11.08 |
| 3 | 1.51 | 9.73 | 23.93 | 33.66 | 56.00 | 22.34 | 16.03 | 25.76 | 46.00 | 20.24 |
| 4 | 3.89 | 9.95 | 22.12 | 32.07 | 56.00 | 23.93 | 14.06 | 24.01 | 46.00 | 21.99 |
| 5 | 7.53 | 9.96 | 19.47 | 29.43 | 60.00 | 30.57 | 11.33 | 21.29 | 50.00 | 28.71 |
| 6 | 24.82 | 10.14 | 6.79 | 16.93 | 60.00 | 43.07 | -1.01 | 9.13 | 50.00 | 40.87 |

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



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4 Appendix

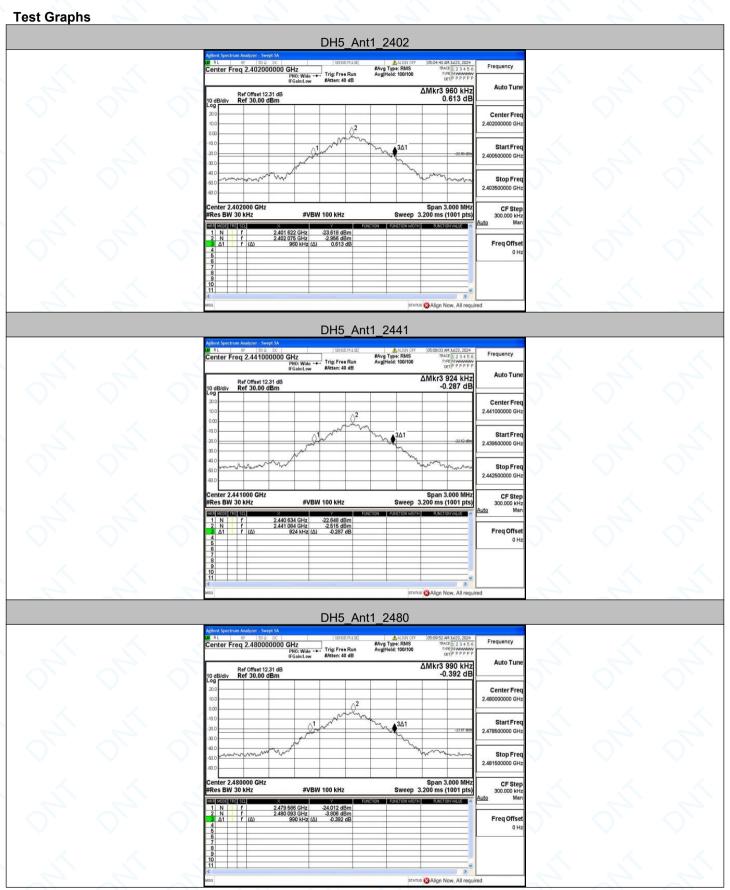
Appendix A: 20dB Emission Bandwidth

Test Result

| Test Mode | Antenna | Freq(MHz) | 20dB EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|-----------|---------------|----------|----------|------------|---------|
| | Ant1 | 2402 | 0.960 | 2401.622 | 2402.582 | / | |
| DH5 | | 2441 | 0.924 | 2440.634 | 2441.558 | | |
| | | 2480 | 0.990 | 2479.586 | 2480.576 | | |
| | | 2402 | 1.320 | 2401.427 | 2402.747 | | |
| 2DH5 | Ant1 | 2441 | 1.290 | 2440.457 | 2441.747 | | |
| | | 2480 | 1.317 | 2479.433 | 2480.750 | | |
| | | 2402 | 1.326 | 2401.421 | 2402.747 | | |
| 3DH5 | Ant1 | 2441 | 1.317 | 2440.439 | 2441.756 | | |
| | | 2480 | 1.293 | 2479.442 | 2480.735 | | |



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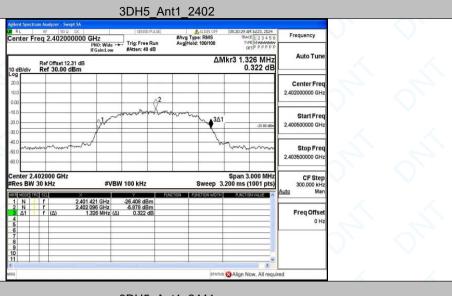


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2DH5_Ant1_2402 #Avg Type: RMS AvgiHold: 100/100 Auto Tur Ref Offset 12.31 dB Ref 30.00 dBm Center Fre Start Free enter 2.402000 GHz Res BW 30 kHz Freq Offs 2DH5 Ant1 2441 #Avg Type: RMS Avg|Hold: 100/100 Center Fre 2.441000000 GH Span 3.000 MHz Sweep 3.200 ms (1001 pts) CF Stej 300.000 kH 2DH5_Ant1_2480 Frequency Center Fre Stop Fre 2.481500000 GH CF Stej 300.000 kH Freq Offse

Report No.: DNT2407220

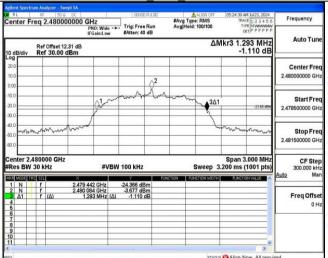
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3DH5_Ant1_2441



3DH5_Ant1_2480





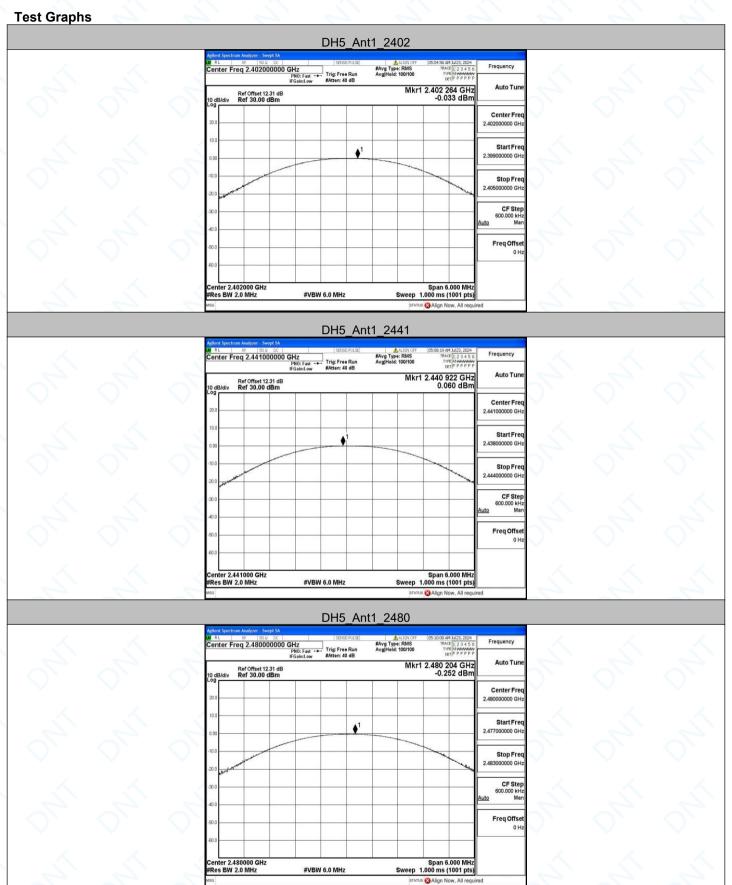
Appendix B: Maximum conducted output power

Test Result

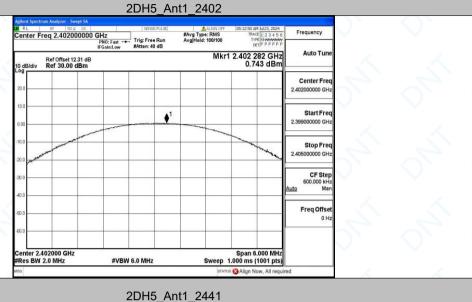
| i Cot i Couit | | | | | |
|---------------|---------|-----------|----------------------------|----------------------|---------|
| Test Mode | Antenna | Freq(MHz) | Conducted Peak Powert[dBm] | Conducted Limit[dBm] | Verdict |
| | Ant1 | 2402 | -0.03 | ≤20.97 | PASS |
| DH5 | | 2441 | 0.06 | ≤20.97 | PASS |
| | | 2480 | -0.25 | ≤20.97 | PASS |
| | | 2402 | 0.74 | ≤20.97 | PASS |
| 2DH5 | Ant1 | 2441 | -0.03 | ≤20.97 | PASS |
| | | 2480 | -0.23 | ≤20.97 | PASS |
| | | 2402 | 0.68 | ≤20.97 | PASS |
| 3DH5 | Ant1 | 2441 | 0.70 | ≤20.97 | PASS |
| | | 2480 | 0.37 | ≤20.97 | PASS |

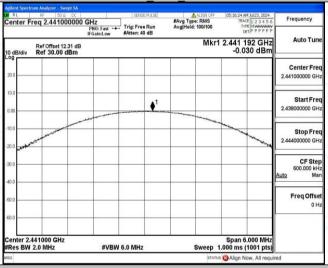


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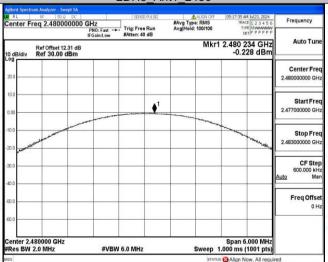


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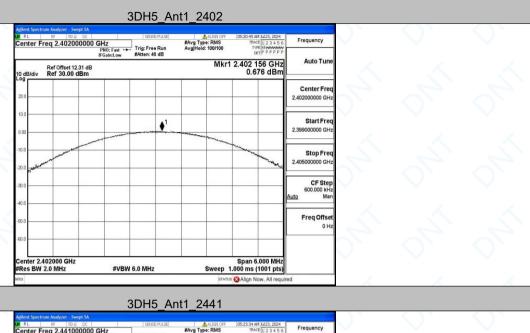


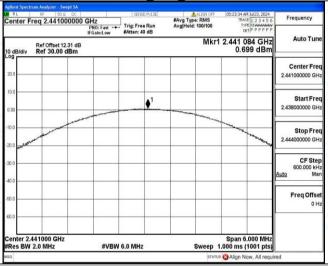


2DH5_Ant1_2480

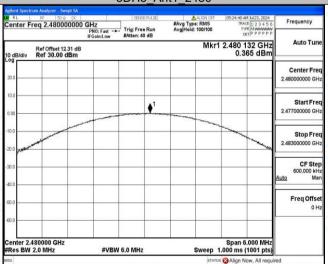


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3DH5_Ant1_2480





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Appendix C: Carrier frequency separation

Test Result

| Test Mode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz] | Verdict |
|-----------|---------|-----------|-------------|------------|---------|
| DH5 | Ant1 | Нор | 1.004 | ≥0.990 | PASS |
| 2DH5 | Ant1 | Нор | 1.164 | ≥0.880 | PASS |
| 3DH5 | Ant1 | Нор | 0.998 | ≥0.884 | PASS |