

Global United Technology Services Co., Ltd.

Report No.: GTSL2024020098F03

TEST REPORT

Nuvyyo Inc. **Applicant:**

555 Legget Drive Tower B Suite 836 Kanata, ON K2K2X3, **Address of Applicant:**

Canada

Nuvvvo Inc. Manufacturer:

555 Legget Drive Tower B Suite 836 Kanata, ON K2K2X3, Address of

Canada Manufacturer:

Shenzhen Giec Digital Co., Ltd **Factory:**

1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang District, **Address of Factory:**

Shenzhen, China

Equipment Under Test (EUT)

OTA streamer **Product Name:**

TF1282B-01-CN, TF1282B-02-CN, TF1282B-AN-01-CN, Model No.:

TF1282B-AN-02-CN

FCC ID: 2AOR7-TABLO02O

FCC CFR Title 47 Part 15 Subpart E Section 15.407 Applicable standards:

Date of sample receipt: September 11, 2023

Date of Test: September 12, 2023-February 26, 2024

Date of report issue: February 26, 2024

Test Result: PASS *

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 34



Report No.: GTSL2024020098F03

2 Version

| Version No. | Date | Description |
|-------------|-------------------|-------------|
| 00 | February 26, 2024 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By: Date: February 26, 2024

Project Engineer

Check By: Date: February 26, 2024

Reviewer



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4 Test Summary

| Test Item | Section | Result |
|------------------------------------|-----------------------------------|--------|
| Antenna requirement | FCC part 15.203 | PASS |
| AC Power Line Conducted Emission | FCC part 15.207 | PASS |
| Emission Bandwidth | FCC part 15.407 | PASS |
| Maximum Conducted Output Power | FCC part 15.407(a)(1) | PASS |
| Power Spectral Density | FCC part 15.407(a)(1) | PASS |
| Undesirable Emission | FCC part 15.407(b), 15.205/15.209 | PASS |
| Radiated Emission | FCC part 15.205/15.209 | PASS |
| Band Edge | FCC part 15.407(b)(1) | PASS |
| Frequency Stability | FCC part 15.407(g) | PASS |
| Non-Transmit & Software Protection | FCC part 15.407(c) | PASS |

Remark:

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

| | | | W. 35 . 35 . 35 |
|-------------------------------------|--------------------------------------|-----------------------------------|-----------------|
| Test Item | Frequency Range | Measurement Uncertainty | Notes |
| Radiated Emission | 9kHz-30MHz | 3.1dB | (1) |
| Radiated Emission | 30MHz-200MHz | 3.8039dB | (1) |
| Radiated Emission | 200MHz-1GHz | 3.9679dB | (1) |
| Radiated Emission | 1GHz-18GHz | 4.29dB | (1) |
| Radiated Emission | 18GHz-40GHz | 3.30dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB | (1) |
| Note (1): The measurement unce | ertainty is for coverage factor of k | =2 and a level of confidence of 9 | 95%. |



5 General Information

5.1 General Description of EUT

| Product Name: | OTA streamer | OTA streamer | | | | | | |
|-----------------------------|---|--|-------------------------|--------------------|--|--|--|--|
| Model No.: | TF1282B-01-0 02-CN | TF1282B-01-CN, TF1282B-02-CN, TF1282B-AN-01-CN, TF1282B-AN-02-CN | | | | | | |
| Test Model No.: | TF1282B-AN-02-CN | | | | | | | |
| Remark:All above models a | are identical in the same PCB layout, interior structure and electrical circuits. | | | | | | | |
| The difference is the acces | sories. | | | | | | | |
| Test sample(s) ID: | GTSL2024020 | 0098-1 | | | | | | |
| Sample(s) Status: | Engineer samp | ole | | | | | | |
| S/N: | 5087B8529BC | 6 | | | | | | |
| Operation Frequency: | Band | Mode | Frequency Range(MHz) | Number of channels | | | | |
| | U-NII Band | IEEE 802.11a | 5180-5240 | 4 | | | | |
| | I IEEE 802.11n/ac 20MHz 5180-5240 | | | | | | | |
| | | IEEE 802.11n/ac 40MHz IEEE 802.11ac 80MHz | 5190-5230 5210 | 1 | | | | |
| Modulation technology: | OFDM | | | | | | | |
| Antenna Type: | Integral Anteni | na | | | | | | |
| Antenna gain: | ANT 1: 1.31dE | Bi | | | | | | |
| | ANT 2: 2.03dE | Bi . | | | | | | |
| Power supply: | AC ADAPTER | 1 | | | | | | |
| | MODEL: TEKA | A-TC120150US | | | | | | |
| | INPUT: AC 10 | 0-240V, 50/60Hz, 0.5A MA> | < | | | | | |
| | OUTPUT: DC | 12.0V, 1.5A | | | | | | |
| | AC ADAPTER 2 | | | | | | | |
| | MODEL: JYSY1588-1201500U | | | | | | | |
| | INPUT: AC 10 | 0-240V, 50/60Hz, 0.5A MA | (| | | | | |
| | OUTPUT: DC | 12.0V, 1.5A | | | | | | |

Remark:

- 1. Antenna gain information provided by the customer
- 2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.
- 3. All 2 adapters were tested and passed, only report the worst case adapter 1.



| Channel list for 802.11a/n/ac(HT20) | | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|--|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency | |
| 36 | 5180MHz | 40 | 5200MHz | 44 | 5220MHz | 48 | 5240MHz | |

| Channel list for 802.11n(HT40)/ac(HT40) | | | | | | |
|---|-----------|---------|-----------|--|--|--|
| Channel | Frequency | Channel | Frequency | | | |
| 38 | 5190MHz | 46 | 5230MHz | | | |

| Channel list for 802.11ac(HT80) | |
|---------------------------------|-----------|
| Channel | Frequency |
| 42 | 5210MHz |



5.2 Test mode

| Tra | Transmitting mode Keep the EUT in transmitting with modulation | | | | | | |
|-----|--|----------|------------|--|--|--|--|
| | We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: | | | | | | |
| | Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case. | | | | | | |
| | Mo | de | Data rate | | | | |
| | 802.11a/n/ | ac(HT20) | 6/6.5 Mbps | | | | |
| | 802.11n/ac(HT40) 13.5 Mbps | | | | | | |
| | 802.11ad | c(HT80) | 29.3 Mbps | | | | |

5.3 Test Facility

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

• FCC —Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• ISED —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 Additional Instructions

| Test Software | test command provided by manufacturer |
|-------------------|---------------------------------------|
| Power level setup | Default |



6 Test Instruments list

| Radia | Radiated Emission: | | | | | | | |
|-------|-------------------------------------|--------------------------------|-----------------------|------------------|------------------------|----------------------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | June 23, 2021 | June 22, 2024 | | |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A | | |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | April 14, 2023 | April 13, 2024 | | |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9168 | GTS640 | March 19, 2023 | March 18, 2025 | | |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120 D | GTS208 | April 17, 2023 | April 16, 2025 | | |
| 6 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | |
| 7 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | GTS575 | April 14, 2023 | April 13, 2024 | | |
| 8 | Loop Antenna | ZHINAN | ZN30900A | GTS534 | Nov. 13, 2023 | Nov.12, 2024 | | |
| 9 | Broadband Preamplifier | SCHWARZBECK | BBV9718 | GTS535 | April 14, 2023 | April 13, 2024 | | |
| 10 | Amplifier(1GHz-26.5GHz) | HP | 8449B | GTS601 | April 14, 2023 | April 13, 2024 | | |
| 11 | Horn Antenna (18- 26.5GHz) | 1 | UG-598A/U | GTS664 | Oct. 29, 2023 | Oct. 28, 2024 | | |
| 12 | Horn Antenna (26.5-40GHz) | A.H Systems | SAS-573 | GTS665 | Oct. 29, 2023 | Oct. 28, 2024 | | |
| 13 | FSV·Signal Analyzer (10Hz-40GHz) | Keysight | FSV-40-N | GTS666 | March 13, 2023 | March 12, 2024 | | |
| 14 | Amplifier | 1 | LNA-1000-30S | GTS650 | April 14, 2023 | April 13, 2024 | | |
| 15 | CDNE M2+M3-16A | HCT | 30MHz-300MHz | GTS692 | Nov. 08, 2023 | Nov.07, 2024 | | |
| 16 | Wideband Amplifier | 1 | WDA-01004000-15P35 | GTS602 | April 14, 2023 | April 13, 2024 | | |
| 17 | Thermo meter | JINCHUANG | GSP-8A | GTS643 | April 19, 2023 | April 18, 2024 | | |
| 18 | RE cable 1 | GTS | N/A | GTS675 | July 31. 2023 | July 30. 2024 | | |
| 19 | RE cable 2 | GTS | N/A | GTS676 | July 31. 2023 | July 30. 2024 | | |
| 20 | RE cable 3 | GTS | N/A | GTS677 | July 31. 2023 | July 30. 2024 | | |
| 21 | RE cable 4 | GTS | N/A | GTS678 | July 31. 2023 | July 30. 2024 | | |
| 22 | RE cable 5 | GTS | N/A | GTS679 | July 31. 2023 | July 30. 2024 | | |
| 23 | RE cable 6 | GTS | N/A | GTS680 | July 31. 2023 | July 30. 2024 | | |
| 24 | RE cable 7 | GTS | N/A | GTS681 | July 31. 2023 | July 30. 2024 | | |
| 25 | RE cable 8 | GTS | N/A | GTS682 | July 31. 2023 | July 30. 2024 | | |



| Cond | Conducted Emission | | | | | | | | |
|------|----------------------|-----------------------------|----------------------|------------------|------------------------|----------------------------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | |
| 1 | Shielding Room | ZhongYu Electron | 7.3(L)x3.1(W)x2.9(H) | GTS252 | July 12, 2022 | July 11, 2027 | | | |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | April 14, 2023 | April 13, 2024 | | | |
| 3 | LISN | ROHDE & SCHWARZ | ENV216 | GTS226 | April 14, 2023 | April 13, 2024 | | | |
| 4 | Coaxial Cable | GTS | N/A | GTS227 | N/A | N/A | | | |
| 5 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | | |
| 6 | Thermo meter | JINCHUANG | GSP-8A | GTS642 | April 19, 2023 | April 18, 2024 | | | |
| 7 | Absorbing clamp | Elektronik- Feinmechanik | MDS21 | GTS229 | April 14, 2023 | April 13, 2024 | | | |
| 8 | ISN | SCHWARZBECK | NTFM 8158 | GTS565 | April 14, 2023 | April 13, 2024 | | | |
| 9 | High voltage probe | SCHWARZBECK | TK9420 | GTS537 | April 14, 2023 | April 13, 2024 | | | |
| 10 | Antenna end assembly | Weinschel | 1870A | GTS560 | April 14, 2023 | April 13, 2024 | | | |

| RF C | RF Conducted Test: | | | | | | | | | | |
|------|--|--------------|---------------------------------|------------|------------------------|----------------------------|--|--|--|--|--|
| Item | Test Equipment | Manufacturer | Manufacturer Model No. Serial N | | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | | | |
| 1 | MXA Signal Analyzer | Agilent | N9020A | GTS566 | April 14, 2023 | April 13, 2024 | | | | | |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | April 14, 2023 | April 13, 2024 | | | | | |
| 3 | PSA Series Spectrum Analyzer | Agilent | E4440A | GTS536 | April 14, 2023 | April 13, 2024 | | | | | |
| 4 | MXG vector Signal Generator | Agilent | N5182A | GTS567 | April 14, 2023 | April 13, 2024 | | | | | |
| 5 | ESG Analog Signal Generator | Agilent | E4428C | GTS568 | April 14, 2023 | April 13, 2024 | | | | | |
| 6 | USB RF Power Sensor | DARE | RPR3006W | GTS569 | April 14, 2023 | April 13, 2024 | | | | | |
| 7 | RF Switch Box | Shongyi | RFSW3003328 | GTS571 | April 14, 2023 | April 13, 2024 | | | | | |
| 8 | Programmable Constant Temp & Humi Test Chamber | WEWON | WHTH-150L-40-880 | GTS572 | April 14, 2023 | April 13, 2024 | | | | | |
| 9 | Thermo meter | JINCHUANG | GSP-8A | GTS641 | April 19, 2023 | April 18, 2024 | | | | | |
| 10 | EXA Signal Analyzer | Keysight | N9010B | MY60241168 | Nov. 03, 2023 | Nov. 02, 2024 | | | | | |

| Ger | General used equipment: | | | | | | | | | | |
|------|-------------------------|--------------|-----------|------------------|------------------------|----------------------------|--|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | | | |
| 1 | Barometer | KUMAO | SF132 | GTS647 | April 19, 2023 | April 18, 2024 | | | | | |



7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203

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.

E.U.T Antenna:

The antenna is integral antenna, reference to the appendix II for details

7.2 Automatically discontinue transmission:

Standard requirement: FCC Part 15 Subpart E Section 15.407(c)

The applicant declare that the device (FCC Part 15 Subpart E Section 15.407) shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure.



7.3 Conducted Emissions

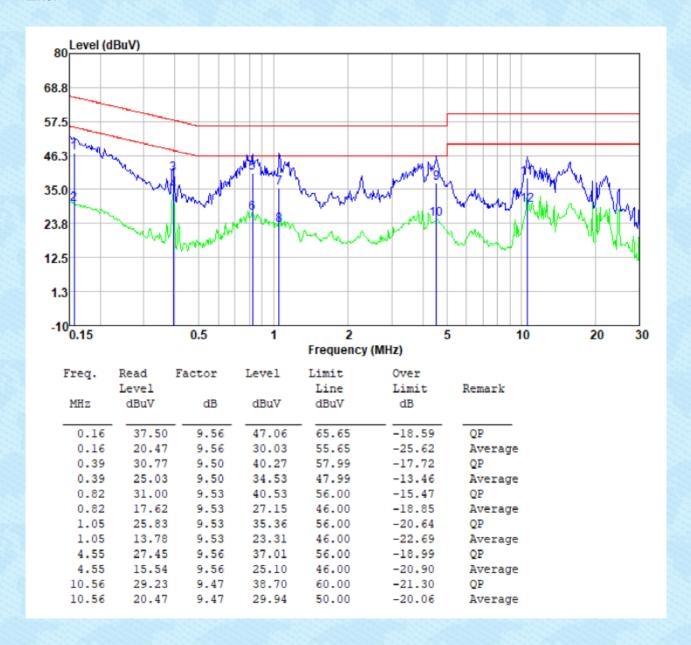
| Test Requirement: | FCC Part15 C Section 15.207 | 7 | | | | | | | | | |
|-------------------------|--|--------------------------------------|--|--|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.10 | | | | | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, S | RBW=9KHz, VBW=30KHz, Sweep time=auto | | | | | | | | | |
| Limit: | Limit (dBuV) | | | | | | | | | | |
| | Frequency range (MHz) | Quasi-peak | Average | | | | | | | | |
| | 0.15-0.5 | 56 to 46* | | | | | | | | | |
| | 0.5-5 | 46 | | | | | | | | | |
| | 5-30 | 60 | 50 | | | | | | | | |
| | * Decreases with the logarithm | m of the frequency. | | | | | | | | | |
| Test setup: | Reference Plane | | | | | | | | | | |
| · | 40cm | 40cm | | | | | | | | | |
| | 40cm | | | | | | | | | | |
| | | BOcm LISN | | | | | | | | | |
| | AUX Equipment E.U.T | | | | | | | | | | |
| | Equipment | Filter — | AC power | | | | | | | | |
| | | | | | | | | | | | |
| | Test table/Insulation plane | EMI | | | | | | | | | |
| | | Receiver | | | | | | | | | |
| | Remark: E.U.T: Equipment Under Test | | | | | | | | | | |
| | LISN: Line Impedence Stabilization Network | | | | | | | | | | |
| | Test table height=0.8m | | | | | | | | | | |
| Test procedure: | 1. The E.U.T and simulators | | the first the same of the same | | | | | | | | |
| | line impedance stabilizatio | | | | | | | | | | |
| | 50ohm/50uH coupling imp | | | | | | | | | | |
| | 2. The peripheral devices are | | | | | | | | | | |
| | LISN that provides a 50oh | | | | | | | | | | |
| | termination. (Please refer t | to the block diagram (| of the test setup and | | | | | | | | |
| | photographs). | | | | | | | | | | |
| | 3. Both sides of A.C. line are | | | | | | | | | | |
| | interference. In order to fin | | | | | | | | | | |
| | positions of equipment and | | | | | | | | | | |
| To at the atminus and a | according to ANSI C63.10 | | irement. | | | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | | | |
| Test mode: | Refer to section 5.2 for details | | Drago . 4040l | | | | | | | | |
| Test environment: | | mid.: 52% | Press.: 1012mbar | | | | | | | | |
| Test voltage: | AC 120V, 60Hz | | | | | | | | | | |
| Test results: | Pass | | | | | | | | | | |



Measurement data

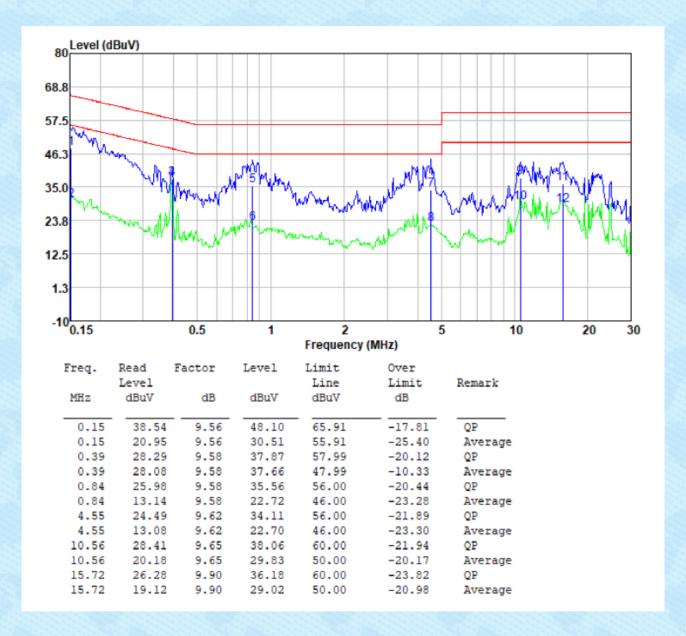
Pre-scan all test modes, found worst case at ANT 1 802.11a 5180MHz, and so only show the test result of it.

Line:





Neutral:

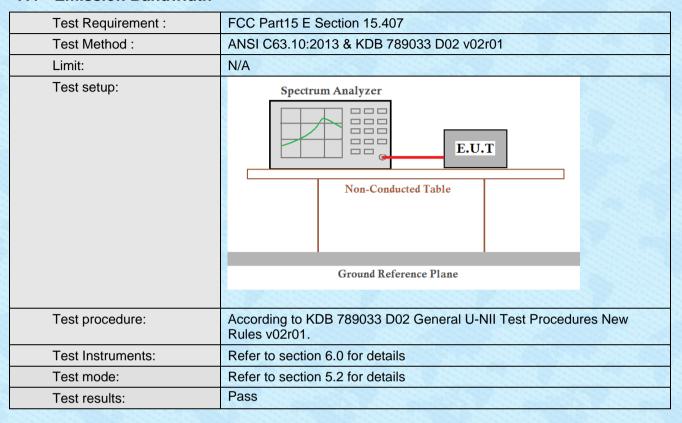


Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.4 Emission Bandwidth



Measurement Data: The detailed test data see Appendix.



7.5 Maximum Conducted Output Power

| Test Requirement | FCC Part15 E Section 15.407 | | | | |
|------------------------------|---|--|--|--|--|
| Test Method : | ANSI C63.10:2013 & KDB 789033 D02 v02r01 | | | | |
| Limit: | Frequency band (MHz) | | | | |
| | 5150-5250 ≤1W(30dBm) for master device ≤250Mw(23.98dBm) for client device | | | | |
| | 5250-5350 ≤250Mw(23.98dBm) for client device or | | | | |
| | 11dBm+10logB* ≤250Mw(23.98dBm) for client device or | | | | |
| | 5470-5725 S250/W(25.98dBiff) for client device of 11dBm+10logB* | | | | |
| | Remark: *Where B is the 26Db emission bandwidth in MHz. | | | | |
| | The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in | | | | |
| | terms of an rms-equivalent voltage. | | | | |
| Test setup: | Power Meter E.U.T | | | | |
| | Non-Conducted Table | | | | |
| | Ground Reference Plane | | | | |
| Duty Cycle set up: | RBW=VBW=8MHz | | | | |
| Test procedure: | Measurement using an RF average power meter | | | | |
| | (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied | | | | |
| | a) The EUT is configured to transmit continuously or to transmit | | | | |
| | a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. | | | | |
| | | | | | |
| | with a constant duty cycle. b) At all times when the EUT is transmitting, it must be | | | | |
| | with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of | | | | |
| | with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in | | | | |
| | with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of | | | | |
| Test Instruments: | with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is | | | | |
| Test Instruments: Test mode: | with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent). | | | | |

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 15 of 34



Measurement Data: The detailed test data see Appendix.

Remark:

Antenna gain: ANT 1: 1.31dBi, ANT 2: 2.03dBi

Directional gain=10log [(10^{ANT1/20}+10^{ANT2/20})²/2]dBi=4.69dBi



7.6 Power Spectral Density

| Test Requirement: | FCC Part15 E Section 15.407 | | | | | | |
|-------------------|--|---|--|--|--|--|--|
| Test Method : | ANSI C63.10:2013 & KDB 789033 D02 v02r01 | | | | | | |
| Limit: | Frequency band Limit (MHz) | | | | | | |
| | 5150-5250 | ≤17dBm in 1MHz for master device | | | | | |
| | 3130-3230 | ≤11dBm in 1MHz for client device | | | | | |
| | 5250-5350 | ≤11dBm in 1MHz for client device | | | | | |
| | 5470-5725 | ≤11dBm in 1MHz for client device | | | | | |
| | | ewer spectral density is measured as a ect connection of a calibrated test instrument st. | | | | | |
| Test setup: | Spectrum Analyzer Non-Conducte Ground Referen | | | | | | |
| Test procedure: | Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power". Use the peak search function on the instrument to find the peak of the spectrum. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. | | | | | | |
| Test Instruments: | The result is the PSD. Refer to section 6.0 for deta | ils | | | | | |
| Test mode: | Refer to section 5.2 for deta | | | | | | |
| Test results: | Pass | | | | | | |



Measurement Data: The detailed test data see Appendix.

Remark:

Antenna gain:ANT 1: 1.31dBi, ANT 2: 2.03dBi Directional gain=10log [(10^{ANT1/20}+10^{ANT2/20})²/2]dBi=4.69dBi



7.7 Band Edge

| Test Requirement: | FCC Part15 E Section 15.407 and 5.205 | | | | | | | | |
|-------------------|--|--|---|---|---|--|--|--|--|
| Test Method: | ANSI C63.10:201 | 13 | | | | | | | |
| Test site: | Measurement Dis | stance: 3m (S | emi-Anecho | ic Chambe | r) | | | | |
| Receiver setup: | Frequency 30MHz-1GHz Above 1GHz | Detector Quasi-peak Peak AV | RBW 120KHz 1MHz 1MHz | VBW 300KHz 3MHz 3MHz | Remark Quasi-peak Value Peak Value Average Value | | | | |
| Limit: | Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 54.0 Average Value 68.2 Peak Value | | | | | | | | |
| | outside of th dBm/MHz. (2) For transmitte outside of th dBm/MHz. I generate en applicable te band (includemission EIF (3) For transmitte | ers operating e 5.15-5.35 (ers operating e 5.15-5.35 (Devices openissions in the chnical requiling indoor upper the company of | in the 5.25-GHz band shrating in the 5.15-5.2 rements for dise) or alter dBm/MHz in the 5.47-4 | nall not exc -5.35 GHz nall not exc se 5.25-5.3 5 GHz ba operation in rnatively m on the 5.15-5 5.725 GHz | band: all emissions eed an EIRP of -27 band: all emissions eed an EIRP of -27 B5 GHz band that and must meet all the 5.15-5.25 GHz eet an out-of-band 5.25 GHz band. band: all emissions eed an EIRP of -27 | | | | |
| Test Procedure: | a. The EUT was ground at a 3 determine the b. The EUT was antenna, whi tower. c. The antenna the ground to Both horizon make the me d. For each sus case and the meters and the degrees to fire. The test-rece Specified Balf. If the emission the limit specified by the EUT with the specified by the specified by the EUT with the specified by the EUT with the specified by the sp | s meter cambe e position of t is set 3 meters ch was moun height is vari determine that and vertical asurement. pected emiss in the antenna- me rotable tab and the maxim eiver system variable tab and the maxim eiver system variable tab | er. The table he highest ras away from ted on the to ed from one he maximum al polarization was turned was turned was turned was set to Perental to the ed to the ed to the ed to the ed to the ed. Otherwipe re-tested | was rotate adiation. the interference op of a varial meter to fo value of the ns of the are was arran to heights find from 0 de- eak Detect I old Mode. k mode was e stopped a ise the emis- | ur meters above e field strength. Intenna are set to ged to its worst rom 1 meter to 4 egrees to 360 | | | | |



| | sheet. |
|-------------------|---|
| Test setup: | For radiated emissions above 1GHz Test Antennae < 1m 4m > e Receivere Preamplifiere Receivere Preamplifiere |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Remarks:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows: E[dBuV/m] = EIRP[dBm] + 95.2;

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.



Measurement Data:

| Both 2 antennas were tested and compliance, only worst condition(ANT 1) report. | | | | | | | | | |
|--|---|---|---|---|---|--|---|--|--|
| Worse case | mode: | 8 | 02.11a | Test Freque | ency: | 5180N | 5180MHz | | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | | |
| 5150 | 50.50 | -3.63 | 46.87 | 68.20 | -21.33 | peak | Н | | |
| 5150 | 46.17 | -3.63 | 42.54 | 54.00 | -11.46 | AVG | Н | | |
| 5150 | 52.09 | -3.63 | 48.46 | 68.20 | -19.74 | peak | V | | |
| 5150 | 45.52 | -3.63 | 41.89 | 54.00 | -12.11 | AVG | V | | |
| Worse case | mode: | 8 | 02.11a | Test Freque | ency: | 5240N | ЛHz | | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | | |
| 5350 | 49.01 | -3.59 | 45.42 | 68.20 | -22.78 | peak | Н | | |
| 5350 | 45.52 | -3.59 | 41.93 | 54.00 | -12.07 | AVG | Н | | |
| 5350 | 50.64 | -3.59 | 47.05 | 68.20 | -21.15 | peak | V | | |
| 5350 | 44.21 | -3.59 | 40.62 | 54.00 | -13.38 | AVG | V | | |
| Worse case | mode: | 8 | 02.11n | Test Freque | ency: | 5180N | ЛHz | | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | | |
| 5150 | 49.76 | -3.63 | 46.13 | 68.20 | -22.07 | peak | Н | | |
| 5150 | 46.38 | -3.63 | 42.75 | 54.00 | -11.25 | AVG | Н | | |
| 5150 | 52.20 | -3.63 | 48.57 | 68.20 | -19.63 | peak | V | | |
| 5150 | 44.95 | -3.63 | 41.32 | 54.00 | -12.68 | AVG | V | | |
| Worse case | | | 02.11n | | est Frequency: | | ЛНz | | |
| Frequency (MHz) | Meter Reading | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. | | |
| | (dBµV) | | \ | | | | H/V | | |
| 5350 | 49.22 | -3.59 | 45.63 | 68.20 | -22.57 | peak | H/V H | | |
| 5350 5350 | | -3.59 -3.59 | | 68.20 54.00 | -22.57 -12.03 | peak AVG | | | |
| | 49.22 | | 45.63 | | | | Н | | |
| 5350 | 49.22 45.56 | -3.59 | 45.63 41.97 | 54.00 | -12.03 | AVG | H | | |
| 5350 5350 | 49.22 45.56 49.86 44.19 | -3.59 -3.59 -3.59 | 45.63 41.97 46.27 | 54.00 68.20 | -12.03 -21.93 -13.40 | AVG peak | H H V V | | |
| 5350 5350 5350 | 49.22 45.56 49.86 44.19 | -3.59 -3.59 -3.59 | 45.63 41.97 46.27 40.60 | 54.00 68.20 54.00 | -12.03 -21.93 -13.40 | AVG peak AVG | H H V V | | |
| 5350 5350 5350 Worse case Frequency | 49.22 45.56 49.86 44.19 mode: Meter Reading | -3.59 -3.59 -3.59 80 Factor | 45.63 41.97 46.27 40.60 02.11ac Emission Level | 54.00 68.20 54.00 Test Freque | -12.03 -21.93 -13.40 ency: | AVG peak AVG 5180N Detector | H H V V V MHz Ant. Pol. | | |
| 5350 5350 5350 Worse case Frequency (MHz) | 49.22 45.56 49.86 44.19 mode: Meter Reading (dBµV) | -3.59 -3.59 -3.59 80 Factor (dB) | 45.63 41.97 46.27 40.60 02.11ac Emission Level (dBµV/m) | 54.00 68.20 54.00 Test Freque Limits (dBµV/m) | -12.03 -21.93 -13.40 ency: Over (dB) | AVG peak AVG 5180N Detector Type | H V V //Hz Ant. Pol. H/V | | |
| 5350 5350 5350 Worse case Frequency (MHz) 5150 | 49.22 45.56 49.86 44.19 mode: Meter Reading (dBµV) 50.49 | -3.59 -3.59 -3.59 80 Factor (dB) -3.63 | 45.63 41.97 46.27 40.60 22.11ac Emission Level (dBµV/m) 46.86 | 54.00 68.20 54.00 Test Freque Limits (dBµV/m) 68.20 | -12.03 -21.93 -13.40 ency: Over (dB) -21.34 | AVG peak AVG 5180N Detector Type peak | H V V //Hz Ant. Pol. H/V H | | |
| 5350 5350 5350 Worse case Frequency (MHz) 5150 5150 | 49.22 45.56 49.86 44.19 mode: Meter Reading (dBµV) 50.49 46.16 | -3.59 -3.59 -3.59 80 Factor (dB) -3.63 -3.63 | 45.63 41.97 46.27 40.60 2.11ac Emission Level (dBµV/m) 46.86 42.53 | 54.00 68.20 54.00 Test Frequence Limits (dBµV/m) 68.20 54.00 | -12.03 -21.93 -13.40 ency: Over (dB) -21.34 -11.47 | AVG peak AVG 5180N Detector Type peak AVG | H H V V MHz Ant. Pol. H/V H | | |
| 5350 5350 5350 Worse case Frequency (MHz) 5150 5150 5150 | 49.22 45.56 49.86 44.19 mode: Meter Reading (dBµV) 50.49 46.16 52.09 45.52 | -3.59 -3.59 -3.59 80 Factor (dB) -3.63 -3.63 -3.63 | 45.63 41.97 46.27 40.60 2.11ac Emission Level (dBµV/m) 46.86 42.53 48.46 41.89 | 54.00 68.20 54.00 Test Frequence Limits (dBµV/m) 68.20 54.00 68.20 54.00 | -12.03 -21.93 -13.40 ency: Over (dB) -21.34 -11.47 -19.74 -12.11 | AVG peak AVG 5180N Detector Type peak AVG peak | H H V V MHz Ant. Pol. H/V H V V | | |
| 5350 5350 5350 Worse case Frequency (MHz) 5150 5150 5150 | 49.22 45.56 49.86 44.19 mode: Meter Reading (dBµV) 50.49 46.16 52.09 45.52 | -3.59 -3.59 -3.59 80 Factor (dB) -3.63 -3.63 -3.63 | 45.63 41.97 46.27 40.60 02.11ac Emission Level (dBµV/m) 46.86 42.53 48.46 | 54.00 68.20 54.00 Test Freque Limits (dBµV/m) 68.20 54.00 68.20 | -12.03 -21.93 -13.40 ency: Over (dB) -21.34 -11.47 -19.74 -12.11 | AVG peak AVG 5180N Detector Type peak AVG peak AVG | H H V V MHz Ant. Pol. H/V H V V MHz Ant. Pol. | | |
| 5350 5350 5350 Worse case Frequency (MHz) 5150 5150 5150 Worse case Frequency | 49.22 45.56 49.86 44.19 mode: Meter Reading (dBµV) 50.49 46.16 52.09 45.52 mode: Meter Reading | -3.59 -3.59 -3.59 80 Factor (dB) -3.63 -3.63 -3.63 -3.63 Factor | 45.63 41.97 46.27 40.60 02.11ac Emission Level (dBµV/m) 46.86 42.53 48.46 41.89 02.11ac Emission Level | 54.00 68.20 54.00 Test Freque Limits (dBµV/m) 68.20 54.00 68.20 54.00 Test Freque Limits | -12.03 -21.93 -13.40 ency: Over (dB) -21.34 -11.47 -19.74 -12.11 ency: Over | AVG peak AVG 5180N Detector Type peak AVG peak AVG peak AVG Detector | H H V V MHz Ant. Pol. H/V H V V MHz Ant. | | |

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| 010 | | | | | | | | |
|--------------------|----------------------------|----------------|-------------------------------|----------------------|----------------|------------------|---------------------|--|
| | | | | | Report No.: GT | S20230901 | 09F03 | |
| 5350 | 45.51 | -3.59 | 41.92 | 54.00 | -12.08 | AVG | Н | |
| 5350 | 50.64 | -3.59 | 47.05 | 68.20 | -21.15 | peak | V | |
| 5350 | 44.20 | -3.59 | 40.61 | 54.00 | -13.39 | AVG | V | |
| Worse case r | mode: | 802.1 | 11n(HT40) | Test Fre | equency: | 5190 | 00MHz | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits Over (dBµV/m) | | Detector Type | Ant. Pol. H/V | |
| 5150 | 49.75 | -3.63 | 46.12 | 68.20 | -22.08 | peak | H | |
| 5150 | 46.37 | -3.63 | 42.74 | 54.00 | -11.26 | AVG | Н | |
| 5150 | 52.20 | -3.63 | 48.57 | 68.20 | -19.63 | peak | V | |
| 5150 | 44.94 | -3.63 | 41.31 | 54.00 | -12.69 | AVG | V | |
| Worse case r | mode: | 802.1 | 11n(HT40) | Test Fre | equency: | 5230 | MHz | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | |
| 5350 | 49.19 | -3.45 | 45.74 | 68.20 | -22.46 | peak | Н | |
| 5350 | 45.54 | -3.45 | 42.09 | 54.00 | -11.91 | AVG | Н | |
| 5350 | 49.85 | -3.45 | 46.40 | 68.20 | -21.80 | peak | V | |
| 5350 | 44.17 | -3.45 | 40.72 | 54.00 | -13.28 | AVG | V | |
| Worse case r | mode: | 802.11 | lac(VHT40) | Test Fre | equency: | 5190 | MHz | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | |
| 5150 | 49.30 | -3.63 | 45.67 | 68.20 | -22.53 | peak | Н | |
| 5150 | 45.41 | -3.63 | 41.78 | 54.00 | -12.22 | AVG | Н | |
| 5150 | 51.55 | -3.63 | 47.92 | 68.20 | -20.28 | peak | V | |
| 5150 | 44.51 | -3.63 | 40.88 | 54.00 | -13.12 | AVG | V | |
| Worse case r | node: | 802.11 | lac(VHT40) | Test Fre | equency: | 5230 | MHz | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | |
| 5350 | 48.35 | -3.59 | 44.76 | 68.20 | -23.44 | peak | Н | |
| 5350 | 45.01 | -3.59 | 41.42 | 54.00 | -12.58 | AVG | Н | |
| 5350 | 49.54 | -3.59 | 45.95 | 68.20 | -22.25 | peak | V | |
| 5350 | 43.48 | -3.59 | 39.89 | 54.00 | -14.11 | AVG | V | |
| Worse case r | node: | 802.11 | lac(VHT80) | Test Fre | equency: | 5210 | MHz | |
| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Over (dB) | Detector Type | Ant. Pol. H/V | |
| 5150 | 48.63 | -3.63 | 45.00 | 68.20 | -23.20 | peak | Н | |
| 5150 | 42.44 | -3.63 | 38.81 | 54.00 | -15.19 | AVG | Н | |
| 5150 | 49.78 | -3.63 | 46.15 | 68.20 | -22.05 | peak | V | |
| 5150 | 43.04 | -3.63 | 39.41 | 54.00 | -14.59 | AVG | V | |
| 5350 | 49.04 | -3.59 | 45.45 | 68.20 | -22.75 | peak | Н | |
| 5350 | 41.42 | -3.59 | 37.83 | 54.00 | -16.17 | AVG | Н | |
| 5350 | 50.56 | -3.59 | 46.97 | 68.20 | -21.23 | peak | V | |
| 5050 | 44.00 | 0.50 | 40.00 | 54.00 | 40.00 | 11/0 | | |

Global United Technology Services Co., Ltd.

44.39

5350

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

-3.59

40.80

54.00

AVG

-13.20

٧



7.8 Radiated Emission

| Total Dan January | 500 D-145 O | | 45 000 | 145.005 | | | | |
|-----------------------|--|-------|---------------------|----------------|--|--------------------------------|--|--|
| Test Requirement : | FCC Part15 C Section 15.209 and 15.205 ANSI C63.10: 2013 | | | | | | | |
| Test Method : | | | 3 | | | | | |
| Test Frequency Range: | 9kHz to 40GHz | | | | | | | |
| Test site: | Measurement I | | | | | | | |
| Receiver setup: | Frequency | | Detector | RBW | VBW | Value | | |
| | 9kHz-150KH | | Quasi-peak | 200Hz | 1kHz | Quasi-peak Value | | |
| | 150kHz-30MH | | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value | | |
| | 30MHz-1GH | Z | Quasi-peak Peak | 120KHz 1MHz | 300KHz 3MHz | Quasi-peak Value Peak Value | | |
| | Above 1GHz | Z | AV | 1MHz | 3MHz | Average Value | | |
| Limit: | | | 710 | TIVITIZ | OWITIZ | 7tvolage value | | |
| Liiiit. | Frequency (MHz) | Field | d strength (microvo | lts/meter) | Measuremen | nt distance (meters) | | |
| | 0.009-0.490 | _ | 0/F(kHz) | | | 300 | | |
| | 0.490-1.705 1.705-30.0 | 30 | 00/F(kHz) | | | 30 30 | | |
| | 30-88 | 100 | ** | | | 3 | | |
| | 88-216 | 150° | | | | 3 | | |
| | 216-960 Above 960 | 200° | | | | 3 | | |
| | Above 960 | 500 | | | 19/19/19/19/19/19/19/19/19/19/19/19/19/1 | | | |
| Test Procedure: | the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below: 1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 rotable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower that the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions the did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then report in a data sheet. 2>.Above 1GHz test procedure: 1. On the test site as test setup graph above, the EUT shall be placed as | | | | | | | |

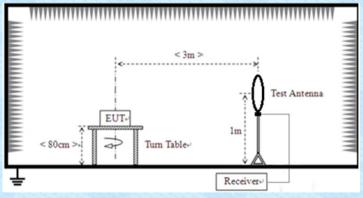


- the 0.8m support on the turntable and in the position closest to normal use as declared by the provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.
- 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 5. Repeat step 4 for test frequency with the test antenna polarized horizontally.
- 6. Remove the transmitter and replace it with a substitution antenna
- 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
- 8. Repeat step 7 with both antennas horizontally polarized for each test frequency.
- 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:
 EIRP(dBm) = Pg(dBm) cable loss (dB) + antenna gain (dBi)

Pg is the generator output power into the substitution antenna.

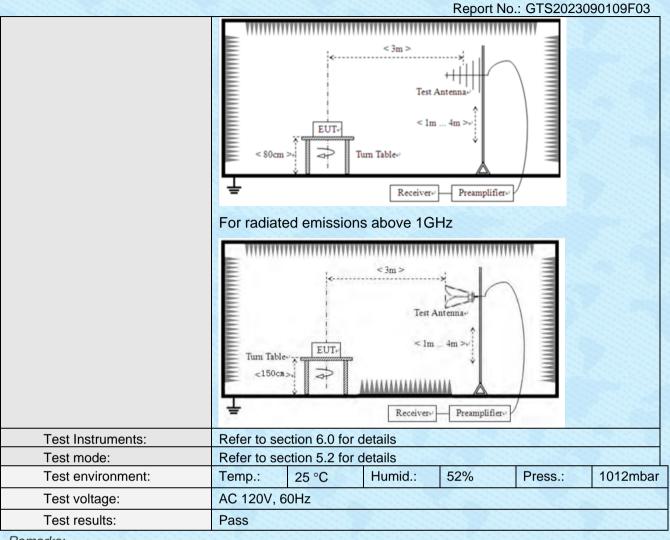
Test setup:

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz





Remarks:

- 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- Both 2 antennas were tested and compliance, only worst condition(ANT 1) report.

Measurement Data:

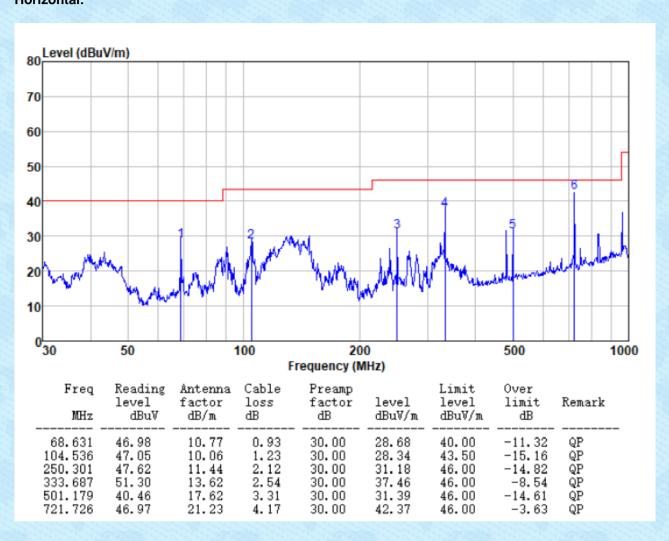
9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



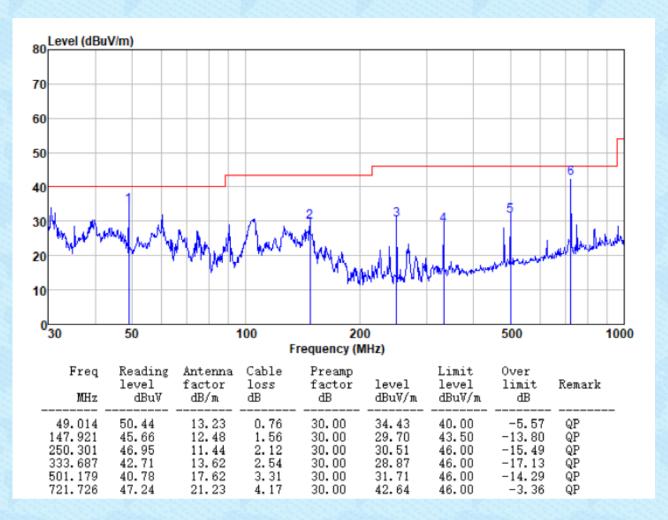
30MHz~1GHz

Pre-scan all test modes, found worst case at 802.11a 5180MHz(ANT 1), and so only show the test result of it. **Horizontal:**





Vertical:





Above 1GHz:

| | 802.1 | 11a(HT20) | | | Test Frequency: 5180MHz | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------------|------------------------|-----------------------|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | |
| 10360 | 36.15 | 38.96 | 8.27 | 35.64 | 47.74 | 68.20 | -20.46 | Vertical | |
| 15540 | 34.14 | 38.40 | 10.57 | 35.35 | 47.76 | 68.20 | -20.44 | Vertical | |
| 10360 | 35.36 | 38.96 | 8.27 | 35.64 | 46.95 | 68.20 | -21.25 | Horizontal | |
| 15540 | 31.72 | 38.40 | 10.57 | 35.35 | 45.34 | 68.20 | -22.86 | Horizontal | |
| 10360 | 28.65 | 38.96 | 8.27 | 35.64 | 40.24 | 54.00 | -13.76 | Vertical | |
| 15540 | 26.99 | 38.40 | 10.57 | 35.35 | 40.61 | 54.00 | -13.39 | Vertical | |
| 10360 | 26.44 | 38.96 | 8.27 | 35.64 | 38.03 | 54.00 | -15.97 | Horizontal | |
| 15540 | 26.52 | 38.40 | 10.57 | 35.35 | 40.14 | 54.00 | -13.86 | Horizontal | |

| | 802.1 | 1a(HT20) | | | Test Frequency: 5200MHz | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------------|------------------------|-----------------------|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | |
| 10400 | 36.02 | 39.01 | 8.29 | 35.67 | 47.65 | 68.20 | -20.55 | Vertical | |
| 15600 | 34.19 | 38.30 | 10.62 | 35.36 | 47.75 | 68.20 | -20.45 | Vertical | |
| 10400 | 35.77 | 39.01 | 8.29 | 35.67 | 47.40 | 68.20 | -20.80 | Horizontal | |
| 15600 | 29.81 | 38.30 | 10.62 | 35.36 | 43.37 | 68.20 | -24.83 | Horizontal | |
| 10400 | 29.52 | 39.01 | 8.29 | 35.67 | 41.15 | 54.00 | -12.85 | Vertical | |
| 15600 | 28.24 | 38.30 | 10.62 | 35.36 | 41.80 | 54.00 | -12.20 | Vertical | |
| 10400 | 24.83 | 39.01 | 8.29 | 35.67 | 36.46 | 54.00 | -17.54 | Horizontal | |
| 15600 | 25.54 | 38.30 | 10.62 | 35.36 | 39.10 | 54.00 | -14.90 | Horizontal | |

| | 802.1 | 11a(HT20) | | | Tes | t Frequency: | 5240MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10480 | 36.65 | 39.15 | 8.32 | 35.78 | 48.34 | 68.20 | -19.86 | Vertical |
| 15720 | 33.14 | 38.00 | 10.72 | 35.37 | 46.49 | 68.20 | -21.71 | Vertical |
| 10480 | 33.28 | 39.15 | 8.32 | 35.78 | 44.97 | 68.20 | -23.23 | Horizontal |
| 15720 | 33.34 | 38.00 | 10.72 | 35.37 | 46.69 | 68.20 | -21.51 | Horizontal |
| 10480 | 27.29 | 39.15 | 8.32 | 35.78 | 38.98 | 54.00 | -15.02 | Vertical |
| 15720 | 25.09 | 38.00 | 10.72 | 35.37 | 38.44 | 54.00 | -15.56 | Vertical |
| 10480 | 25.72 | 39.15 | 8.32 | 35.78 | 37.41 | 54.00 | -16.59 | Horizontal |
| 15720 | 22.47 | 38.00 | 10.72 | 35.37 | 35.82 | 54.00 | -18.18 | Horizontal |

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| | 802.1 | 11n(HT20) | | | Tes | t Frequency: | 5180MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10360 | 35.99 | 39.20 | 8.34 | 35.82 | 47.71 | 68.20 | -20.49 | Vertical |
| 15540 | 34.61 | 37.90 | 10.77 | 35.38 | 47.90 | 68.20 | -20.30 | Vertical |
| 10360 | 35.98 | 39.20 | 8.34 | 35.82 | 47.70 | 68.20 | -20.50 | Horizontal |
| 15540 | 29.86 | 37.90 | 10.77 | 35.38 | 43.15 | 68.20 | -25.05 | Horizontal |
| 10360 | 28.23 | 39.20 | 8.34 | 35.82 | 39.95 | 54.00 | -14.05 | Vertical |
| 15540 | 25.79 | 37.90 | 10.77 | 35.38 | 39.08 | 54.00 | -14.92 | Vertical |
| 10360 | 24.08 | 39.20 | 8.34 | 35.82 | 35.80 | 54.00 | -18.20 | Horizontal |
| 15540 | 24.16 | 37.90 | 10.77 | 35.38 | 37.45 | 54.00 | -16.55 | Horizontal |

| | 802.1 | 11n(HT20) | | | Tes | t Frequency: | 5200MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10400 | 36.93 | 38.96 | 8.27 | 35.64 | 48.52 | 68.20 | -19.68 | Vertical |
| 15600 | 32.15 | 38.40 | 10.57 | 35.35 | 45.77 | 68.20 | -22.43 | Vertical |
| 10400 | 33.00 | 38.96 | 8.27 | 35.64 | 44.59 | 68.20 | -23.61 | Horizontal |
| 15600 | 33.90 | 38.40 | 10.57 | 35.35 | 47.52 | 68.20 | -20.68 | Horizontal |
| 10400 | 30.13 | 38.96 | 8.27 | 35.64 | 41.72 | 54.00 | -12.28 | Vertical |
| 15600 | 28.46 | 38.40 | 10.57 | 35.35 | 42.08 | 54.00 | -11.92 | Vertical |
| 10400 | 27.43 | 38.96 | 8.27 | 35.64 | 39.02 | 54.00 | -14.98 | Horizontal |
| 15600 | 22.64 | 38.40 | 10.57 | 35.35 | 36.26 | 54.00 | -17.74 | Horizontal |

| | 802.1 | 1n(HT20) | | | Tes | t Frequency: | 5240MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10480 | 33.74 | 39.15 | 8.32 | 35.78 | 45.43 | 68.20 | -22.77 | Vertical |
| 15720 | 33.24 | 38.00 | 10.72 | 35.37 | 46.59 | 68.20 | -21.61 | Vertical |
| 10480 | 32.93 | 39.15 | 8.32 | 35.78 | 44.62 | 68.20 | -23.58 | Horizontal |
| 15720 | 29.17 | 38.00 | 10.72 | 35.37 | 42.52 | 68.20 | -25.68 | Horizontal |
| 10480 | 28.29 | 39.15 | 8.32 | 35.78 | 39.98 | 54.00 | -14.02 | Vertical |
| 15720 | 27.92 | 38.00 | 10.72 | 35.37 | 41.27 | 54.00 | -12.73 | Vertical |
| 10480 | 24.57 | 39.15 | 8.32 | 35.78 | 36.26 | 54.00 | -17.74 | Horizontal |
| 15720 | 25.78 | 38.00 | 10.72 | 35.37 | 39.13 | 54.00 | -14.87 | Horizontal |



| | 802.1 | 1ac(HT20) | | | Tes | t Frequency: | 5180MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10360 | 34.02 | 38.96 | 8.27 | 35.64 | 45.61 | 68.20 | -22.59 | Vertical |
| 15540 | 34.79 | 38.40 | 10.57 | 35.35 | 48.41 | 68.20 | -19.79 | Vertical |
| 10360 | 32.64 | 38.96 | 8.27 | 35.64 | 44.23 | 68.20 | -23.97 | Horizontal |
| 15540 | 33.04 | 38.40 | 10.57 | 35.35 | 46.66 | 68.20 | -21.54 | Horizontal |
| 10360 | 26.85 | 38.96 | 8.27 | 35.64 | 38.44 | 54.00 | -15.56 | Vertical |
| 15540 | 24.52 | 38.40 | 10.57 | 35.35 | 38.14 | 54.00 | -15.86 | Vertical |
| 10360 | 24.99 | 38.96 | 8.27 | 35.64 | 36.58 | 54.00 | -17.42 | Horizontal |
| 15540 | 22.29 | 38.40 | 10.57 | 35.35 | 35.91 | 54.00 | -18.09 | Horizontal |

| | 802.1 | 1ac(HT20) | | | Tes | t Frequency: | 5200MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10400 | 36.92 | 39.01 | 8.29 | 35.67 | 48.55 | 68.20 | -19.65 | Vertical |
| 15600 | 33.50 | 38.30 | 10.62 | 35.36 | 47.06 | 68.20 | -21.14 | Vertical |
| 10400 | 33.42 | 39.01 | 8.29 | 35.67 | 45.05 | 68.20 | -23.15 | Horizontal |
| 15600 | 33.84 | 38.30 | 10.62 | 35.36 | 47.40 | 68.20 | -20.80 | Horizontal |
| 10400 | 29.46 | 39.01 | 8.29 | 35.67 | 41.09 | 54.00 | -12.91 | Vertical |
| 15600 | 27.95 | 38.30 | 10.62 | 35.36 | 41.51 | 54.00 | -12.49 | Vertical |
| 10400 | 24.20 | 39.01 | 8.29 | 35.67 | 35.83 | 54.00 | -18.17 | Horizontal |
| 15600 | 26.70 | 38.30 | 10.62 | 35.36 | 40.26 | 54.00 | -13.74 | Horizontal |

| | A A A A A A A A A | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| | 802.1 | 1ac(HT20) | | | Tes | t Frequency: | 5240MHz | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10480 | 32.45 | 39.15 | 8.32 | 35.78 | 44.14 | 68.20 | -24.06 | Vertical |
| 15720 | 33.26 | 38.00 | 10.72 | 35.37 | 46.61 | 68.20 | -21.59 | Vertical |
| 10480 | 34.13 | 39.15 | 8.32 | 35.78 | 45.82 | 68.20 | -22.38 | Horizontal |
| 15720 | 33.98 | 38.00 | 10.72 | 35.37 | 47.33 | 68.20 | -20.87 | Horizontal |
| 10480 | 27.22 | 39.15 | 8.32 | 35.78 | 38.91 | 54.00 | -15.09 | Vertical |
| 15720 | 27.39 | 38.00 | 10.72 | 35.37 | 40.74 | 54.00 | -13.26 | Vertical |
| 10480 | 23.57 | 39.15 | 8.32 | 35.78 | 35.26 | 54.00 | -18.74 | Horizontal |
| 15720 | 24.81 | 38.00 | 10.72 | 35.37 | 38.16 | 54.00 | -15.84 | Horizontal |

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| | 802.1 | 11n(HT40) | | | Tes | t Frequency: | 5190MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10380 | 37.44 | 39.01 | 8.28 | 35.67 | 49.06 | 68.20 | -19.14 | Vertical |
| 15570 | 32.81 | 38.30 | 10.60 | 35.36 | 46.35 | 68.20 | -21.85 | Vertical |
| 10380 | 34.01 | 39.01 | 8.28 | 35.67 | 45.63 | 68.20 | -22.57 | Horizontal |
| 15570 | 30.71 | 38.30 | 10.60 | 35.36 | 44.25 | 68.20 | -23.95 | Horizontal |
| 10380 | 26.87 | 39.01 | 8.28 | 35.67 | 38.49 | 54.00 | -15.51 | Vertical |
| 15570 | 26.26 | 38.30 | 10.60 | 35.36 | 39.80 | 54.00 | -14.20 | Vertical |
| 10380 | 27.59 | 39.01 | 8.28 | 35.67 | 39.21 | 54.00 | -14.79 | Horizontal |
| 15570 | 25.24 | 38.30 | 10.60 | 35.36 | 38.78 | 54.00 | -15.22 | Horizontal |

| | 802.1 | 11n(HT40) | | | Tes | t Frequency: | 5230MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10460 | 36.18 | 39.11 | 8.31 | 35.75 | 47.85 | 68.20 | -20.35 | Vertical |
| 15690 | 33.30 | 38.10 | 10.70 | 35.37 | 46.73 | 68.20 | -21.47 | Vertical |
| 10460 | 32.99 | 39.11 | 8.31 | 35.75 | 44.66 | 68.20 | -23.54 | Horizontal |
| 15690 | 30.85 | 38.10 | 10.70 | 35.37 | 44.28 | 68.20 | -23.92 | Horizontal |
| 10460 | 29.99 | 39.11 | 8.31 | 35.75 | 41.66 | 54.00 | -12.34 | Vertical |
| 15690 | 28.99 | 38.10 | 10.70 | 35.37 | 42.42 | 54.00 | -11.58 | Vertical |
| 10460 | 24.98 | 39.11 | 8.31 | 35.75 | 36.65 | 54.00 | -17.35 | Horizontal |
| 15690 | 27.24 | 38.10 | 10.70 | 35.37 | 40.67 | 54.00 | -13.33 | Horizontal |

| | 802.1 | 1ac(HT40) | | | Tes | t Frequency: | 5190MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10380 | 33.48 | 39.01 | 8.28 | 35.67 | 45.10 | 68.20 | -23.10 | Vertical |
| 15570 | 30.70 | 38.30 | 10.60 | 35.36 | 44.24 | 68.20 | -23.96 | Vertical |
| 10380 | 32.40 | 39.01 | 8.28 | 35.67 | 44.02 | 68.20 | -24.18 | Horizontal |
| 15570 | 32.07 | 38.30 | 10.60 | 35.36 | 45.61 | 68.20 | -22.59 | Horizontal |
| 10380 | 26.38 | 39.01 | 8.28 | 35.67 | 38.00 | 54.00 | -16.00 | Vertical |
| 15570 | 26.78 | 38.30 | 10.60 | 35.36 | 40.32 | 54.00 | -13.68 | Vertical |
| 10380 | 28.01 | 39.01 | 8.28 | 35.67 | 39.63 | 54.00 | -14.37 | Horizontal |
| 15570 | 26.37 | 38.30 | 10.60 | 35.36 | 39.91 | 54.00 | -14.09 | Horizontal |

| | 802.1 | 1ac(HT40) | | | Tes | t Frequency: | 5230MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10460 | 33.84 | 39.11 | 8.31 | 35.75 | 45.51 | 68.20 | -22.69 | Vertical |
| 15690 | 34.27 | 38.10 | 10.70 | 35.37 | 47.70 | 68.20 | -20.50 | Vertical |
| 10460 | 31.55 | 39.11 | 8.31 | 35.75 | 43.22 | 68.20 | -24.98 | Horizontal |
| 15690 | 32.77 | 38.10 | 10.70 | 35.37 | 46.20 | 68.20 | -22.00 | Horizontal |
| 10460 | 28.84 | 39.11 | 8.31 | 35.75 | 40.51 | 54.00 | -13.49 | Vertical |
| 15690 | 27.37 | 38.10 | 10.70 | 35.37 | 40.80 | 54.00 | -13.20 | Vertical |
| 10460 | 23.84 | 39.11 | 8.31 | 35.75 | 35.51 | 54.00 | -18.49 | Horizontal |
| 15690 | 23.75 | 38.10 | 10.70 | 35.37 | 37.18 | 54.00 | -16.82 | Horizontal |



| | 802.1 | 1ac(HT80) | | | Tes | t Frequency: | 5210MHz | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 10420 | 36.55 | 39.06 | 8.29 | 35.71 | 48.19 | 68.20 | -20.01 | Vertical |
| 15630 | 33.63 | 38.20 | 10.65 | 35.36 | 47.12 | 68.20 | -21.08 | Vertical |
| 10420 | 34.77 | 39.06 | 8.29 | 35.71 | 46.41 | 68.20 | -21.79 | Horizontal |
| 15630 | 33.69 | 38.20 | 10.65 | 35.36 | 47.18 | 68.20 | -21.02 | Horizontal |
| 10420 | 29.31 | 39.06 | 8.29 | 35.71 | 40.95 | 54.00 | -13.05 | Vertical |
| 15630 | 27.58 | 38.20 | 10.65 | 35.36 | 41.07 | 54.00 | -12.93 | Vertical |
| 10420 | 25.20 | 39.06 | 8.29 | 35.71 | 36.84 | 54.00 | -17.16 | Horizontal |
| 15630 | 26.86 | 38.20 | 10.65 | 35.36 | 40.35 | 54.00 | -13.65 | Horizontal |

Notes:

- 1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
- 2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.



7.9 Frequency stability

| Test Requirement: | FCC Part15 C Section 15.407(g) | FCC Part15 C Section 15.407(g) | | | | | |
|-------------------|---|--|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013, FCC Part 2.1055, | | | | | | |
| Limit: | Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified | | | | | | |
| Test Procedure: | | The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements. | | | | | |
| Test setup: | Spectrum analyzer Att. Note: Measurement setup for testing on A | Temperature Chamber EUT Variable Power Supply Antenna connector | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | |
| Test results: | Pass | | | | | | |

Measurement Data:

All antennas have test, only the worst case ANT 1 report.

| Test Condition | Test Mode | Test Frequency [MHz] | Ant | Result [ppm] | Limit [ppm] | Verdict |
|-------------------|--------------|----------------------------|-------|-----------------|----------------|---------|
| NTNV Carrier | 5180 | 1 | -8.63 | <=20 | PASS | |
| | | 5190 | 1 | -7.32 | <=20 | PASS |
| | Corrier | 5200 | 1 | -9.54 | <=20 | PASS |
| | Carrier | 5210 | 1 | -2.37 | <=20 | PASS |
| | | 5230 | 1 | 1.91 | <=20 | PASS |
| | | 5240 | 1 | -9.90 | <=20 | PASS |



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

---END---