

Report No.: SUHR/2021/C000105
 Rev.: 01
 Page: 1 of 37

TEST REPORT

Application No.: HR/2021/C0001
Applicant: Honor Device Co., Ltd.
Address of Applicant Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: NTN-LX3
Trade Mark: HONOR
FCC ID: 2AYGCNTN-LX3
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2021/12/8
Date of Test: 2021/12/15 to 2021/12/18
Date of Issue: 2021/12/18

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:


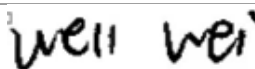
Pantu Sun
 Wireless Laboratory Manager



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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021/12/18 | | Original |
| | | | | |
| | | | | |

| | | |
|--------------------|--|--|
| Prepared By | |  <hr/> (Weller Liu) / Engineer |
| Checked By | |  <hr/> (Well Wei) / Reviewer |



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2 Test Summary

| Test Item | Test Requirement | Test Method | Test Result | Result |
|---|-------------------------|------------------|-------------|-----------------------------|
| Antenna Requirement | 15.203/247(b) | -- | Clause 4.1 | Refer to HR/2021/1001404-01 |
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10 2013 | Clause 4.2 | PASS |
| Duty Cycle | -- | -- | Clause 4.3 | Refer to HR/2021/1001404-01 |
| Output Power | 15.247 (b)(3) | ANSI C63.10 2013 | Clause 4.4 | Refer to HR/2021/1001404-01 |
| DTS (6 dB) Bandwidth & 99% Occupied Bandwidth | 15.247 (a)(2) | ANSI C63.10 2013 | Clause 4.5 | Refer to HR/2021/1001404-01 |
| Power Spectral Density | 15.247 (e) | ANSI C63.10 2013 | Clause 4.6 | Refer to HR/2021/1001404-01 |
| Band-edge for RF Conducted Emissions | 15.247(d) | ANSI C63.10 2013 | Clause 4.7 | Refer to HR/2021/1001404-01 |
| RF Conducted Spurious Emissions | 15.247(d) | ANSI C63.10 2013 | Clause 4.8 | Refer to HR/2021/1001404-01 |
| Radiated Spurious Emissions | 15.247(d);15.205/15.209 | ANSI C63.10 2013 | Clause 4.9 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.247(d);15.205/15.209 | ANSI C63.10 2013 | Clause 4.10 | PASS |



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Report No.: SUHR/2021/C000105

Rev.: 01

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Remark:

This test report (Report No.: SUHR/2021/C000105) is based on the original test report (Report No.: HR/2021/1001404-02) issued on 2021-05-15.

According to the difference declaration from the applicant, radiation spurious emissions and Conducted Emission are performed based on the worst case of the original report and the other test data can be referred to the original test report.



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3 General Information

3.1 Details of Client

| | |
|--------------------------|---|
| Applicant: | Honor Device Co., Ltd. |
| Address of Applicant: | Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |
| Manufacturer: | Honor Device Co., Ltd. |
| Address of Manufacturer: | Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |

3.2 Test Location

| | |
|----------------|--|
| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd |
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Weller Liu, King-p Li, Nature Shen, Tizzy Song |

3.3 Test Facility

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

| |
|---|
| <ul style="list-style-type: none"> • A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. • Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. • FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number:0031225543 |
|---|



3.4 General Description of EUT

| | | | |
|---------------------------------|---|-----------------|-------------------|
| EUT Description: | Smart Phone | | |
| Model No.: | NTN-LX3 | | |
| Trade Mark: | HONOR | | |
| Hardware Version: | HL1NTNM | | |
| Software Version: | 11.0.2.88(C900E85R1P3) | | |
| IEEE 802.11 WLAN Mode Supported | <input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11 n (40 MHz channel bandwidth) | | |
| Operation Frequency: | 2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: $-f_c = \text{"Operating Frequency" in MHz}$, $-N = \text{"Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.}$ | | |
| Type of Modulation: | IEEE for 802.11b: DSSS IEEE for 802.11g : OFDM IEEE for 802.11n(HT20) : OFDM IEEE for 802.11n(HT40) : OFDM | | |
| Sample Type: | <input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module | | |
| Antenna Type: | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated | | |
| Antenna Ports | <input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3 | | |
| Smart System | <input checked="" type="checkbox"/> SISO (for 802.11b/g/n), <input type="checkbox"/> MIMO (for 802.11 b/g/n): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx | | |
| Antenna Gain*: | <input checked="" type="checkbox"/> Provided by applicant | | |
| | -2.2dBi | | |
| RF Cable*: | <input checked="" type="checkbox"/> Provided by applicant | | |
| | 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: | <p>*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 , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> | | |



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| Operation Frequency of each channel (802.11b/g/n HT20) | | | | | | | |
|---|-----------------------------------|---------|-----------|------------------------------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |
| Operation Frequency of each channel (802.11n HT40) | | | | | | | |
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |
| 4 | 2427MHz | 7 | 2442MHz | | | | |
| 5 | 2432MHz | 8 | 2447MHz | | | | |
| 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 for 802.11 b/g/n (HT20) | | | Frequency for 802.11n (HT40) | | | |
| The Lowest channel | 2412MHz | | | 2422MHz | | | |
| The Middle channel | 2437MHz | | | 2437MHz | | | |
| The Highest channel | 2462MHz | | | 2452MHz | | | |



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3.5 Test Environment and Mode

| Environment Parameter | 101 KPa Selected Values During Tests | |
|-----------------------|--------------------------------------|------------|
| Relative Humidity | 44~46% RH Ambient | |
| Value | Temperature(°C) | Voltage(V) |
| NTNV | 22~23 | 3.87 |
| LTVN | -10 | 3.87 |
| HTNV | 55 | 3.87 |

Remark:
 NV: Normal Voltage
 NT: Normal Temperature
 LT: Low Extreme Test Temperature
 HT: High Extreme Test Temperature

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|--|--|
| Standard requirement: | 47 CFR Part 15C Section 15.203 /247(c) |
| <p>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.</p> <p>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.</p> | |
| The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -2.2dBi. | |



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4.2 AC Power Line Conducted Emissions

| | | | |
|-----------------------|--|--------------|-----------|
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| | * Decreases with the logarithm of the frequency. | | |
| Test Procedure: | <p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p> | | |



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| | |
|-------------------------------|--|
| <p>Test Setup:</p> | |
| <p>Exploratory Test Mode:</p> | <p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 6 for details</p> |
| <p>Test Results:</p> | <p>Pass</p> |



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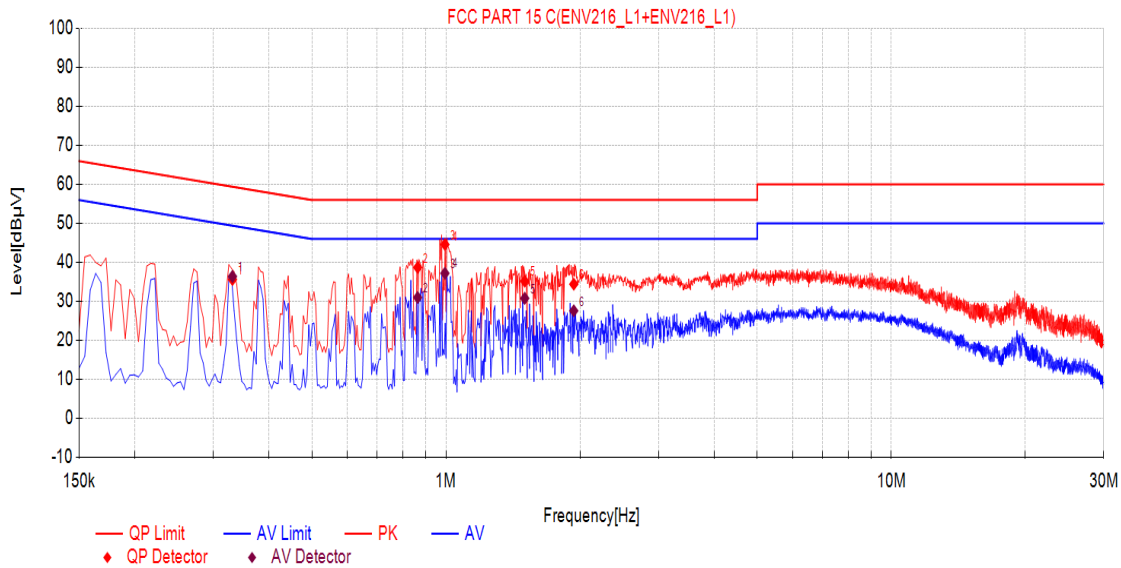
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Measurement Data

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:



| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|---------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 0.3316 | 9.55 | 35.61 | 59.41 | 23.80 | 36.39 | 49.41 | 13.02 | 0.3316 | PASS |
| 0.8640 | 9.57 | 38.68 | 56.00 | 17.32 | 30.98 | 46.00 | 15.02 | 0.8640 | PASS |
| 0.9948 | 9.50 | 44.59 | 56.00 | 11.41 | 37.18 | 46.00 | 8.82 | 0.9948 | PASS |
| 1.0043 | 9.49 | 44.34 | 56.00 | 11.66 | 37.47 | 46.00 | 8.53 | 1.0043 | PASS |
| 1.5030 | 9.78 | 35.18 | 56.00 | 20.82 | 30.77 | 46.00 | 15.23 | 1.5030 | PASS |
| 1.9368 | 9.70 | 34.39 | 56.00 | 21.61 | 27.56 | 46.00 | 18.44 | 1.9368 | PASS |

Remark:

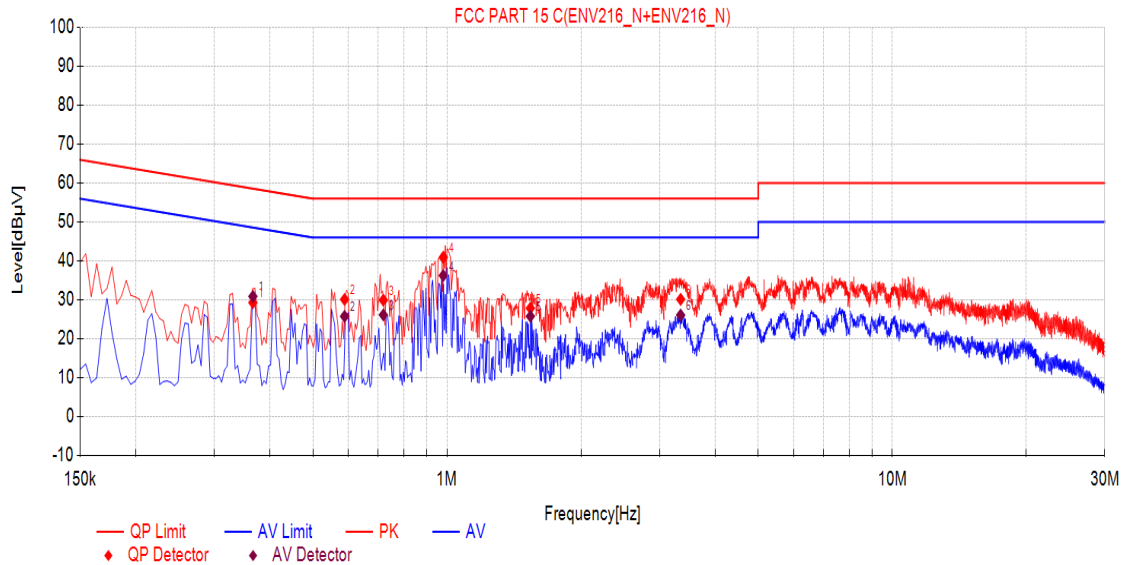
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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Neutral Line:



| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|---------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1 | 0.3667 | 9.81 | 29.27 | 58.58 | 29.31 | 30.86 | 48.58 | 17.72 | PASS |
| 2 | 0.5890 | 9.69 | 30.08 | 56.00 | 25.92 | 25.74 | 46.00 | 20.26 | PASS |
| 3 | 0.7198 | 9.81 | 29.91 | 56.00 | 26.09 | 26.10 | 46.00 | 19.90 | PASS |
| 4 | 0.9812 | 9.66 | 40.92 | 56.00 | 15.08 | 36.21 | 46.00 | 9.79 | PASS |
| 5 | 1.5396 | 9.77 | 27.83 | 56.00 | 28.17 | 25.76 | 46.00 | 20.24 | PASS |
| 6 | 3.3484 | 9.64 | 30.10 | 56.00 | 25.90 | 26.06 | 46.00 | 19.94 | PASS |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

The detailed test data see: **Appendix of HR/2021/1001404-01**



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4.4 Output Power

| | |
|---|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.10 :2013 Section 11.9.1.3 |
| Test Setup: | |
| Test Instruments: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). |
| Limit: | 30dBm |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001404-01 | |



4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

| | |
|---|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.10: 2013 Section 11.8.1 Option 1 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). |
| Limit: | ≥ 500 kHz |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001404-01 | |



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4.6 Power Spectral Density

| | |
|---|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (e) |
| Test Method: | ANSI C63.10 :2013 Section 11.10.2 |
| Test Setup: | |
| Test Instruments: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). |
| Limit: | ≤8.00dBm/3kHz |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001404-01 | |



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4.7 Band-edge for RF Conducted Emissions

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
| Test Method: | ANSI C63.10: 2013 Section 11.13 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001404-01 | |



4.8 RF Conducted Spurious Emissions

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
| Test Method: | ANSI C63.10: 2013 Section 11.11 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results: | Pass |
| The detailed test data see: Appendix of HR/2021/1001404-01 | |



4.9 Radiated Spurious Emissions

| | | | | | |
|---|--|-------------------------------------|--|------------|-----------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10 :2013 Section 11.12 | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak | |
| | Peak | 1MHz | 10Hz (DC≥0.98) ≥1/T (DC<0.98) | Average | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| | 1.705MHz-30MHz | 30 | - | - | 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 otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. | | | | | |



| | |
|-------------------------------|---|
| <p>Test Setup:</p> | |
| | |
| <p>Figure 1. Below 30MHz</p> | <p>Figure 2. 30MHz to 1GHz</p> |
| | |
| <p>Figure 3. Above 1 GHz</p> | |
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation 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. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 |



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| | |
|---|---|
| | <p>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.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p> |
| Test Configuration: | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • 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: | <p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p> |
| Final Test Mode: | <p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11b;</p> <p>6Mbps of rate is the worst case of 802.11g;</p> <p>6.5Mbps of rate is the worst case of 802.11n(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11nHT40);</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.</p> |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.10 Restricted bands around fundamental frequency

| | | | |
|-------------------|--|----------------|---------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | |
| Test Method: | ANSI C63.10: 2013 Section 11.12 | | |
| Test Site: | Measurement Distance: 3m (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 |
| | Above 1GHz | 54.0 | Average Value |
| | | 74.0 | Peak Value |
| Test Setup: | | | |

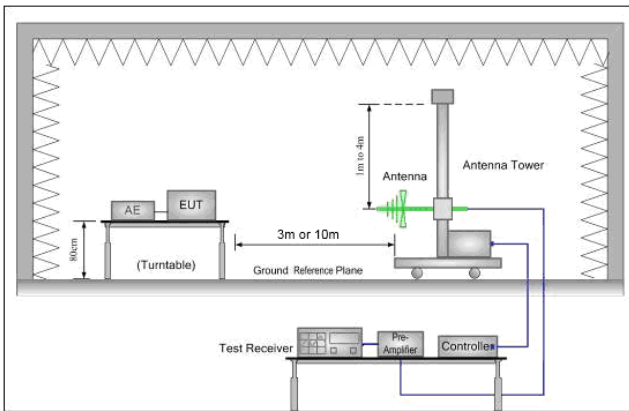


Figure 1. 30MHz to 1GHz

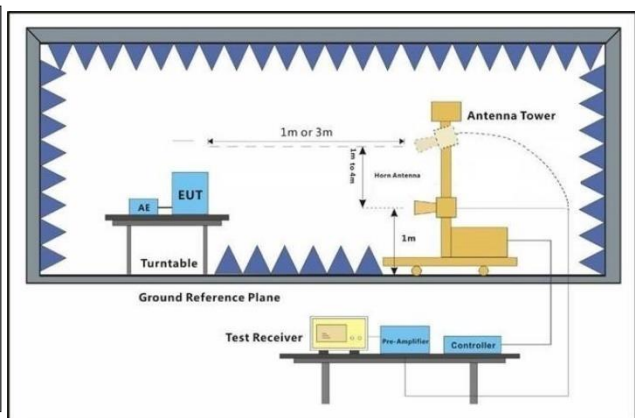


Figure 2. Above 1 GHz



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| | |
|-------------------------------|---|
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters 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. j. Repeat above procedures until all frequencies measured was complete. |
| <p>Test Configuration:</p> | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3MHz • Detector = power averaging (rms) • Sweep time = auto. <p>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p> |
| <p>Exploratory Test Mode:</p> | <p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Pretest the EUT at Charge + Transmitting mode.</p> |



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| | |
|---|---|
| | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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

| No. | Item | Measurement Uncertainty |
|-----|---------------------|----------------------------|
| 1 | Conduction Emission | ± 2.90dB (150kHz to 30MHz) |
| 2 | Radiated Emission | ± 3.13dB (9k -30MHz) |
| | | ± 4.8dB (30M -1GHz) |
| | | ± 4.8dB (1GHz to 18GHz) |
| | | ±4.8dB (Above 18GHz) |



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6 Equipment List

| CE Test Equipment | | | | | |
|--------------------------------|---------------|------------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-03-01 | 2021/5/8 | 2024/5/7 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-01 | 2021/2/20 | 2022/2/19 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-02 | 2021/2/20 | 2022/2/19 |
| Measurement Software | Tonscend | JS32-CE V3.0.0.1 | SUWI-02-09-05 | NCR | NCR |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2021/2/20 | 2022/2/19 |



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| 9*6*6 Test Equipment | | | | | |
|--------------------------------|-----------------------------------|-------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/5/8 | 2024/5/7 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2021/2/20 | 2022/2/19 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2021/5/28 | 2022/5/27 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2021/2/20 | 2022/2/19 |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2021/5/16 | 2022/5/15 |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2021/5/16 | 2022/5/15 |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2021/5/14 | 2022/5/13 |
| Active Loop Antenna | SCHWRZBECK MESS- ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2021/6/10 | 2022/6/9 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2021/2/20 | 2022/2/19 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2021/2/20 | 2022/2/19 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2021/2/20 | 2022/2/19 |



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7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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Appendix



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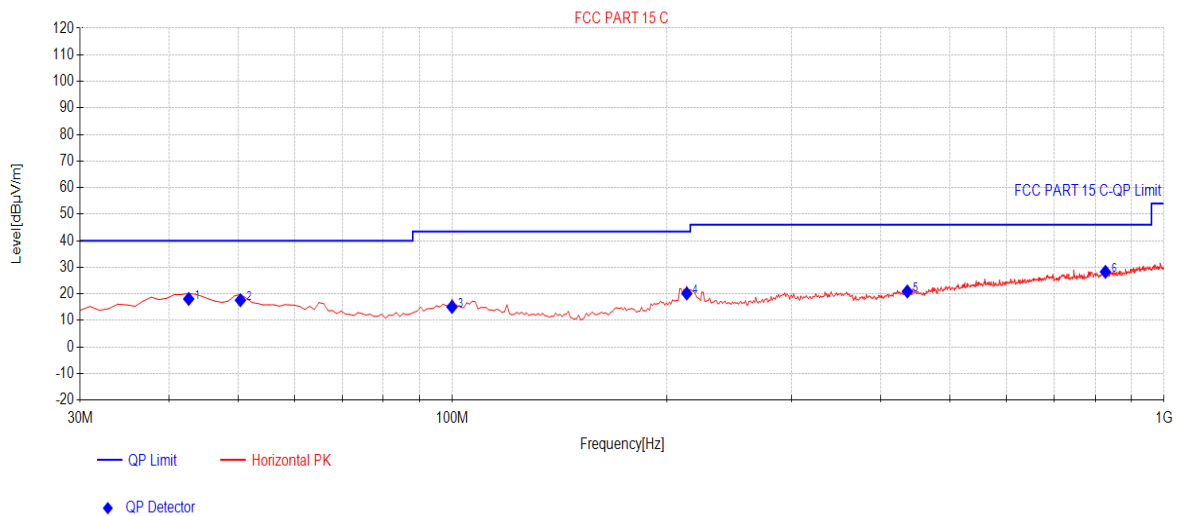
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Radiated Spurious Emissions

Radiated emission below 1GHz

802.11g_Channel 03 worst case



| Final Data List | | | | | | | | |
|-----------------|-----------------|-------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 42.6226 | -15.44 | 18.08 | 40.00 | 21.92 | 163 | 74 | Horizontal |
| 2 | 50.3904 | -14.29 | 17.60 | 40.00 | 22.40 | 102 | 11 | Horizontal |
| 3 | 99.9099 | -16.57 | 15.07 | 43.50 | 28.43 | 212 | 303 | Horizontal |
| 4 | 213.5135 | -15.39 | 20.13 | 43.50 | 23.37 | 333 | 221 | Horizontal |
| 5 | 435.8659 | -8.95 | 20.90 | 46.00 | 25.10 | 219 | 249 | Horizontal |
| 6 | 827.1672 | -2.57 | 28.28 | 46.00 | 17.72 | 105 | 145 | Horizontal |

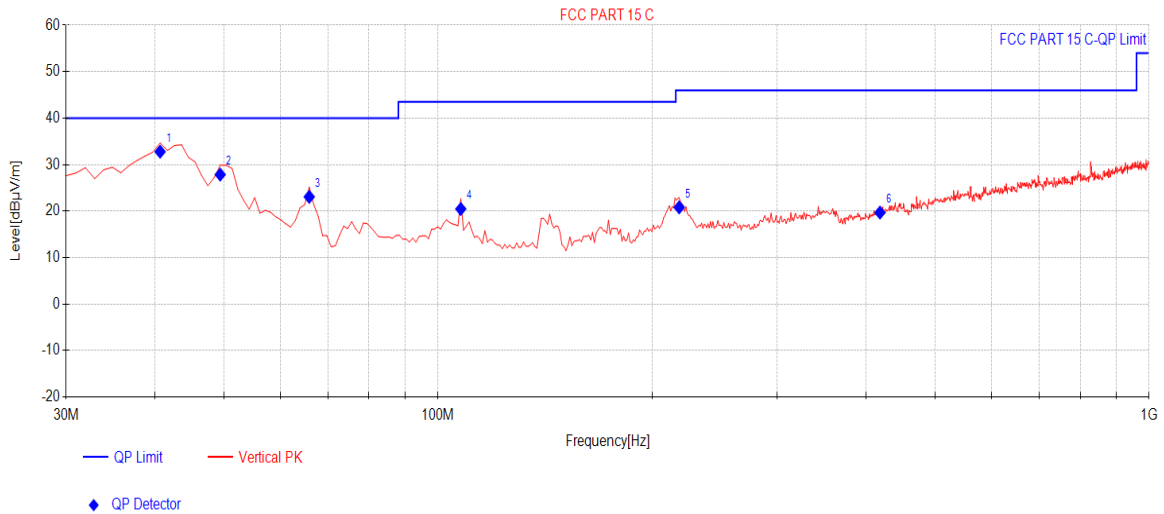
Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Pre-amplifier Factor



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802.11g_Channel 03 worse case



| Final Data List | | | | | | | | |
|-----------------|-----------------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 40.6807 | -15.84 | 32.79 | 40.00 | 7.21 | 103 | 132 | Vertical |
| 2 | 49.4194 | -14.30 | 27.86 | 40.00 | 12.14 | 302 | 338 | Vertical |
| 3 | 65.9259 | -17.90 | 23.08 | 40.00 | 16.92 | 216 | 358 | Vertical |
| 4 | 107.6777 | -16.68 | 20.47 | 43.50 | 23.03 | 185 | 294 | Vertical |
| 5 | 218.3684 | -15.05 | 20.82 | 46.00 | 25.18 | 179 | 97 | Vertical |
| 6 | 418.3884 | -9.37 | 19.69 | 46.00 | 26.31 | 201 | 218 | Vertical |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor

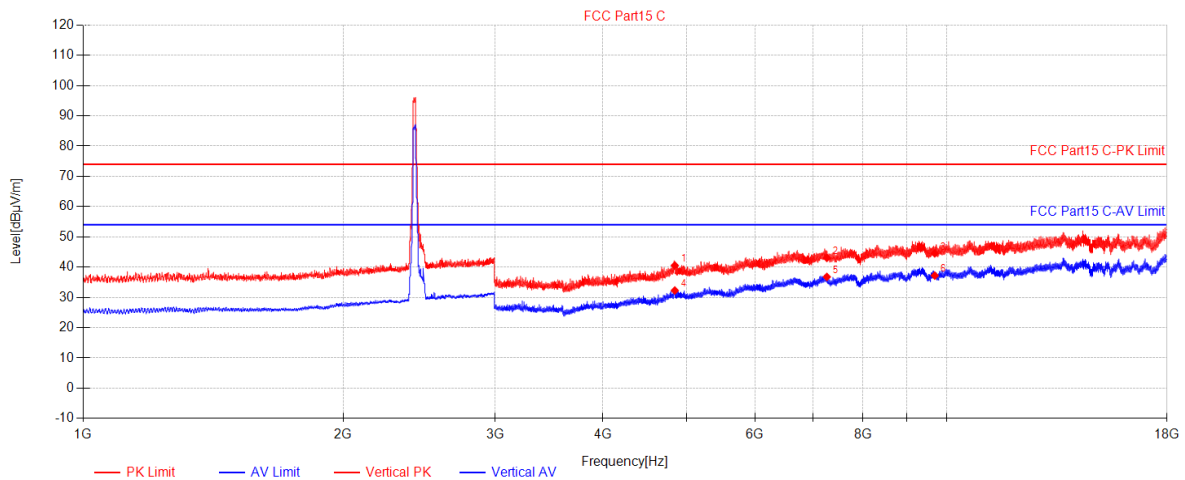


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Transmitter emission above 1GHz

802.11gEmission_Channel 03



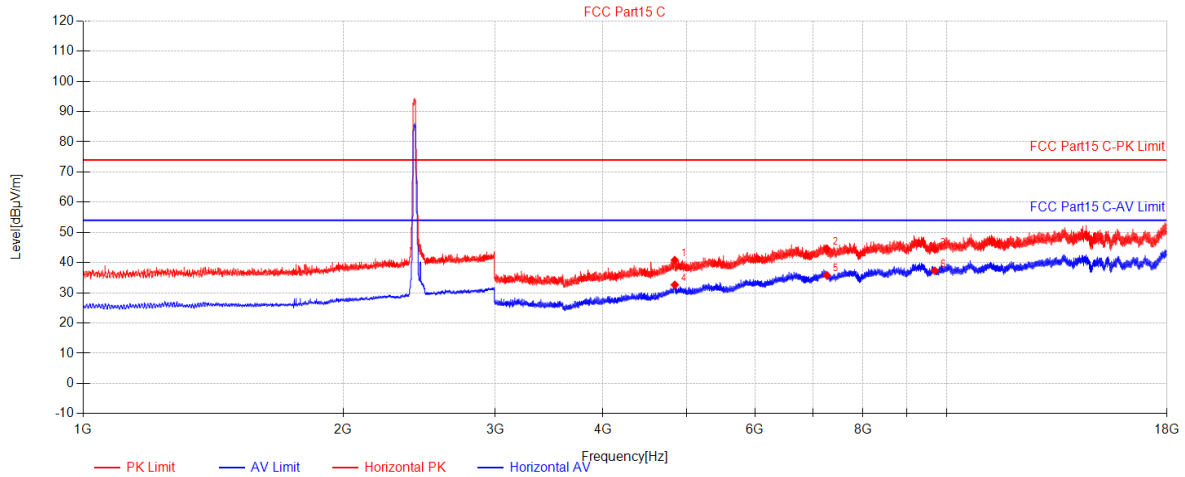
| Data List | | | | | | | | | |
|-----------|-----------------|------------------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4844 | 53.63 | -13.09 | 40.54 | 74.00 | 33.46 | 231 | 182 | Vertical |
| 2 | 7266 | 50.15 | -7.07 | 43.08 | 74.00 | 30.92 | 256 | 129 | Vertical |
| 3 | 9688 | 45.68 | -1.12 | 44.56 | 74.00 | 29.44 | 145 | 106 | Vertical |
| 4 | 4844 | 45.39 | -13.09 | 32.30 | 54.00 | 21.70 | 182 | 81 | Vertical |
| 5 | 7266 | 43.86 | -7.07 | 36.79 | 54.00 | 17.21 | 241 | 285 | Vertical |
| 6 | 9688 | 38.33 | -1.12 | 37.21 | 54.00 | 16.79 | 310 | 9 | Vertical |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Pre-amplifier Factor



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802.11gEmission_Channel 03



| Data List | | | | | | | | | |
|-----------|-----------------|------------------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 4844 | 53.92 | -13.09 | 40.83 | 74.00 | 33.17 | 244 | 235 | Horizontal |
| 2 | 7266 | 51.69 | -7.07 | 44.62 | 74.00 | 29.38 | 265 | 66 | Horizontal |
| 3 | 9688 | 45.50 | -1.12 | 44.38 | 74.00 | 29.62 | 103 | 186 | Horizontal |
| 4 | 4844 | 45.74 | -13.09 | 32.65 | 54.00 | 21.35 | 152 | 109 | Horizontal |
| 5 | 7266 | 42.88 | -7.07 | 35.81 | 54.00 | 18.19 | 245 | 84 | Horizontal |
| 6 | 9688 | 38.46 | -1.12 | 37.34 | 54.00 | 16.66 | 287 | 256 | Horizontal |

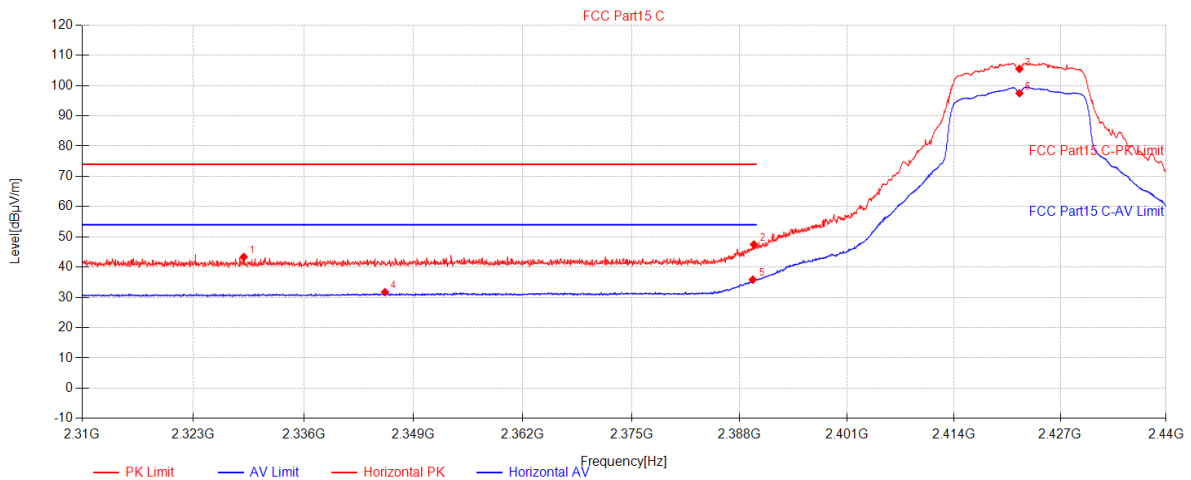
Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor



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Bandedge

802.11g Band_EDGE_Channel 03



| Data List | | | | | | | | | |
|-----------|-----------------|------------------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2328.9367 | 40.28 | 3.09 | 43.37 | 74.00 | 30.63 | 254 | 111 | Horizontal |
| 2 | 2389.7333 | 44.41 | 3.07 | 47.48 | 74.00 | 26.52 | 254 | 111 | Horizontal |
| 3 | 2422 | 102.31 | 3.21 | 105.52 | 73.91 | -31.61 | 254 | 111 | Horizontal |
| 4 | 2345.62 | 28.65 | 3.09 | 31.74 | 54.00 | 22.26 | 254 | 111 | Horizontal |
| 5 | 2389.6033 | 32.79 | 3.07 | 35.86 | 54.00 | 18.14 | 254 | 111 | Horizontal |
| 6 | 2422 | 94.26 | 3.21 | 97.47 | 53.94 | -43.53 | 254 | 111 | Horizontal |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss

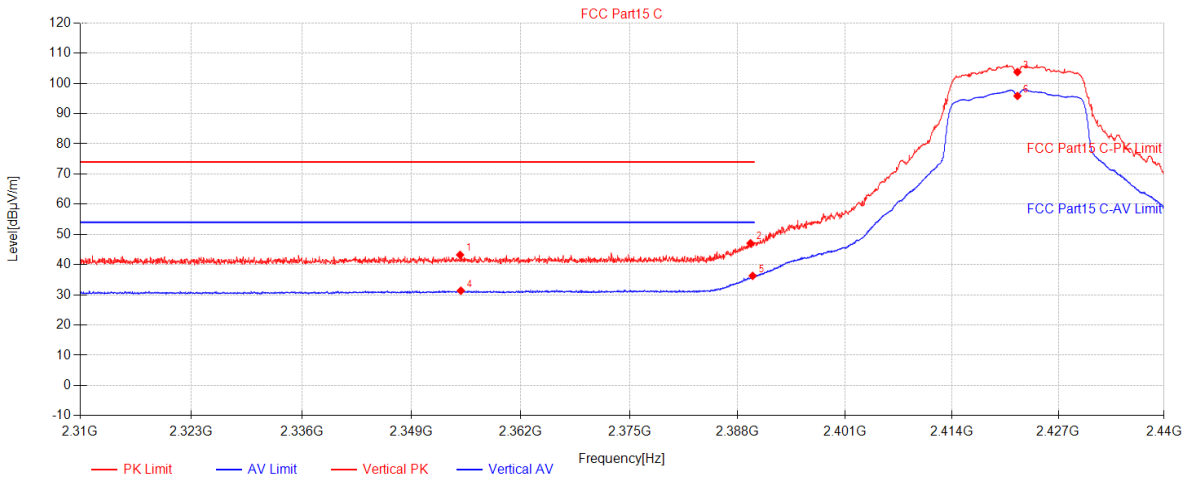


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802.11g Band_EDGE_Channel 03



| Data List | | | | | | | | | |
|-----------|-----------------|------------------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2354.7633 | 40.15 | 3.08 | 43.23 | 74.00 | 30.77 | 105 | 257 | Vertical |
| 2 | 2389.56 | 44.00 | 3.07 | 47.07 | 74.00 | 26.93 | 105 | 257 | Vertical |
| 3 | 2422 | 100.56 | 3.21 | 103.77 | 73.91 | -29.86 | 105 | 257 | Vertical |
| 4 | 2354.85 | 28.30 | 3.08 | 31.38 | 54.00 | 22.62 | 105 | 257 | Vertical |
| 5 | 2389.82 | 33.22 | 3.07 | 36.29 | 54.00 | 17.71 | 105 | 257 | Vertical |
| 6 | 2422 | 92.65 | 3.21 | 95.86 | 53.94 | -41.92 | 105 | 257 | Vertical |

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss

The End



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