

Report No.: SHCR220700135902

Page: 1 of 96

TEST REPORT

Application No.: SHCR2207001359HS FCC ID: 2A4A3FRIDGE-2088

Applicant: Hisense Ronshen (Guangdong) Refrigerator Co., Ltd.

NO.8 Ronggang Road, Ronggui Street, Shunde District, Foshan City, **Address of Applicant:**

Guangdong Province, China

Manufacturer: Qingdao Hisense Communication Co., Ltd.

Address of Manufacturer: No.218, Qianwangang Road, Economic and Technological Development

Zone, Qingdao, Shandong Province, China

Qingdao Intelligent & Precise Electronics Co., Ltd. Factory:

No.218, Qianwangang Road, Economic and Technological Development Address of Factory:

Zone, Qingdao, Shandong Province, China

Equipment Under Test (EUT):

EUT Name: WIFI Module Model No.: MWB414C.05

47 CFR Part 15, Subpart C 15.247 Standard(s):

Date of Receipt: 2022-07-08

2022-07-14 to 2022-07-21 Date of Test:

Date of Issue: 2022-08-02

Pass* Test Result:

Parlam Zhan Laboratory Manager



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f (86-21) 61915678

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SHCR220700135902

Page: 2 of 96

| | Revision Record | | | | |
|---------|-----------------|------------|--------|--|--|
| Version | Description | Date | Remark | | |
| 00 | Original | 2022-08-02 | / | | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | | |
|--------------------------|-----------------------------|---|--|
| | Wade thang | | |
| | Wade Zhang/Project Engineer | - | |
| | Parlam Zhan | | |
| | Parlam Zhan/Reviewer | - | |



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Report No.: SHCR220700135902

Page: 3 of 96

2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|-------------------------------------|--------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|-------------------------------------|---|--|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 11.9.1 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass |
| Minimum 6dB Bandwidth | | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass |
| Power Spectrum Density | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Below 1GHz | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |



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Report No.: SHCR220700135902

Page: 4 of 96

3 Contents

| | | | Page |
|---|------------------|---|---|
| 1 | COVER PAGE | | 1 |
| 2 | TEST SUMMARY | | 3 |
| | | | |
| 3 | CONTENTS | | 4 |
| 4 | GENERAL INFOR | MATION | 6 |
| | 4.1 DETAILS OF E | .U.T | 6 |
| | 4.2 DESCRIPTION | OF SUPPORT UNITS | 6 |
| | | SETTING USING IN TEST: | |
| | | IT UNCERTAINTY & DECISION RULE | |
| | | NN | |
| | | <i>(</i> | |
| | | OM STANDARDS | |
| | 4.8 Abnormalitie | ES FROM STANDARD CONDITIONS | |
| 5 | EQUIPMENT LIST | - | g |
| 6 | RADIO SPECTRU | M TECHNICAL REQUIREMENT | 10 |
| | | QUIREMENT | |
| | | virement: | |
| | | n | |
| _ | | | |
| 7 | | M MATTER TEST RESULTS | |
| | | AVERAGE OUTPUT POWER | |
| | | eration | |
| | | Description | |
| | | Diagram | |
| | | nent Procedure and Data | |
| | | BANDWIDTHeration | |
| | | P Description | |
| | | o Diagram | |
| | | nent Procedure and Data | |
| | | TRUM DENSITY | |
| | | eration | |
| | • | Description | |
| | | o Diagram | |
| | | nent Procedure and Data | |
| | 7.4 CONDUCTED E | BAND EDGES MEASUREMENT | 15 |
| | 7.4.1 E.U.T. Op | eration | 15 |
| | 7.4.2 Test Mode | Description | 15 |
| | | Diagram | |
| | | nent Procedure and Data | |
| | | Spurious Emissions | |
| | 7.5.1 E.U.T. Op | eration | |
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Report No.: SHCR220700135902

Page: 5 of 96

| 7.5.2 | Test Mode Description | 17 | | |
|---------|---|----|--|--|
| 7.5.3 | Test Setup Diagram | 18 | | |
| 7.5.4 | Measurement Procedure and Data | 18 | | |
| 7.6 F | RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS | 19 | | |
| 7.6.1 | E.U.T. Operation | 19 | | |
| 7.6.2 | Test Mode Description | | | |
| 7.6.3 | Test Setup Diagram | 20 | | |
| 7.6.4 | Measurement Procedure and Data | 20 | | |
| 7.7 F | RADIATED SPURIOUS EMISSIONS BELOW 1GHZ | 34 | | |
| 7.7.1 | E.U.T. Operation | 34 | | |
| 7.7.2 | Test Mode Description | | | |
| 7.7.3 | Test Setup Diagram | 35 | | |
| 7.7.4 | Measurement Procedure and Data | 35 | | |
| 7.8 F | RADIATED SPURIOUS EMISSIONS ABOVE 1GHz | 38 | | |
| 7.8.1 | E.U.T. Operation | 38 | | |
| 7.8.2 | Test Mode Description | | | |
| 7.8.3 | Test Setup Diagram | | | |
| 7.8.4 | Measurement Procedure and Data | | | |
| 8 TEST | SETUP PHOTO | 58 | | |
| 9 EUT 0 | CONSTRUCTIONAL DETAILS (EUT PHOTOS) | 58 | | |
| | - (| | | |
| 10 APPE | 0 APPENDIX5 | | | |



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Report No.: SHCR220700135902

Page: 6 of 96

General Information

Details of E.U.T.

| Power supply: | DC 5V |
|----------------------|--|
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channels: | 802.11b/g/n(HT20):11 |
| Channel Spacing: | 5MHz |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | -1.53dBi (Provided by manufacturer) |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---------------------------|--------------|--------------|------------|
| DC power supply | KIKUSUI | PMC70-1A | - |
| Laptop | LENOVO | L460 | - |
| SecureCRT | VanDyke | V 6.2.0 | - |
| Serial port adapter plate | - | Test Plate 3 | - |

4.3 Power level setting using in test:

| Channel | 802.11b | 802.11g | 802.11n(HT20) |
|---------|---------|---------|---------------|
| 1 | 87 | 64 | 57 |
| 6 | 87 | 64 | 57 |
| 11 | 87 | 64 | 57 |



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Report No.: SHCR220700135902

Page: 7 of 96

4.4 Measurement Uncertainty & Decision Rule

| No. | Item | Measurement Uncertainty |
|-----|-------------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4 x 10-8 |
| 2 | Timeout | 2s |
| 3 | Duty cycle | 0.4% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF conducted power | 0.6dB |
| 6 | RF power density | 2.9dB |
| 7 | Conducted Spurious emissions | 0.75dB |
| 8 | DE Dedicted newer | 5.2dB (Below 1GHz) |
| 0 | RF Radiated power | 5.9dB (Above 1GHz) |
| | | 4.2dB (Below 30MHz) |
| | De l'ate d Octobre a contratte dest | 4.5dB (30MHz-1GHz) |
| 9 | Radiated Spurious emission test | 5.1dB (1GHz-6GHz) |
| | | 5.4dB (6GHz-18GHz) |
| 10 | Temperature test | 1°C |
| 11 | Humidity test | 3% |
| 12 | Supply voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).



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Report No.: SHCR220700135902

Page: 8 of 96

4.6 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None





Report No.: SHCR220700135902

Page: 9 of 96

5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------|--------------|------------------|---|------------|--------------|
| RF Conducted Test | | | , | | |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | Keysight | N9020B | SHEM241-1 | 2021-08-30 | 2022-08-29 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2021-08-13 | 2022-08-12 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2021-08-13 | 2022-08-12 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2021-08-13 | 2022-08-12 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2021-07-28 | 2022-07-27 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2022-07-28 | 2023-07-27 |
| Communication Tester | R&S | CMW500 | SHEM183-2 | 2022-04-01 | 2023-03-31 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2021-08-13 | 2022-08-12 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM184-1 | 2021-08-13 | 2022-08-12 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | / |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2020-04-15 | 2023-04-14 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2021-12-20 | 2022-12-19 |
| DC Power Supply | MCH | MCH-303A | SHEM210-1 | 2021-12-20 | 2022-12-19 |
| Conducted test Cable | / | RF01~RF04 | / | 2021-12-20 | 2022-12-19 |
| Test software | Tonscend | JS Tonscend | Version: 2.6 | / | , |
| | TOHSCEHU | BT/WIFI System | V & (SIO() . Z.0 | / | / |
| RF Radiated Test | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2021-12-20 | 2022-12-19 |
| Communication Tester | R&S | CMW500 | SHEM183-2 | 2022-04-01 | 2023-03-31 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2021-12-20 | 2022-12-19 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2021-09-11 | 2023-09-10 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2021-05-07 | 2023-05-06 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2021-06-09 | 2023-06-08 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2021-09-18 | 2023-09-17 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2021-09-18 | 2023-09-17 |
| Pre-Amplifier | HP | 8447D | SHEM236-1 | 2022-05-27 | 2023-05-26 |
| Pre-Amplifier | PANSHAN | LNA 1-18G | SHEM235-1 | 2022-05-27 | 2023-05-26 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2021-12-20 | 2022-12-19 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2020-05-25 | 2023-05-24 |
| RE test Cable | / | RE01, RE02, RE06 | / | 2022-01-07 | 2023-01-06 |
| Test software | ESE | E3 | Version: | 1 | / |
| 1 GSt Software | | | 6.111221a | , | , |



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Report No.: SHCR220700135902

Page: 10 of 96

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement. The best case gain of the antenna is -1.53 dBi.

Antenna location: Refer to internal photo.



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Report No.: SHCR220700135902

Page: 11 of 96

Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

| Frequency range(MHz) Output power of the intentional radiator(watt) | | |
|--|---|--|
| | 1 for ≥50 hopping channels | |
| 902-928 | 0.25 for 25≤ hopping channels <50 | |
| | 1 for digital modulation | |
| | 1 for ≥75 non-overlapping hopping channels | |
| 2400-2483.5 | 0.125 for all other frequency hopping systems | |
| | 1 for digital modulation | |
| 5725-5850 1 for frequency hopping systems and digital modulation | | |

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 56.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description | | | | |
|--------------------------|--------------|--|--|--|--|--|
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. | | | | |



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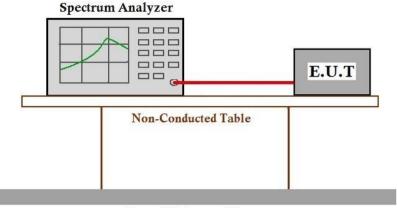
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Report No.: SHCR220700135902

Page: 12 of 96

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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Report No.: SHCR220700135902

Page: 13 of 96

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

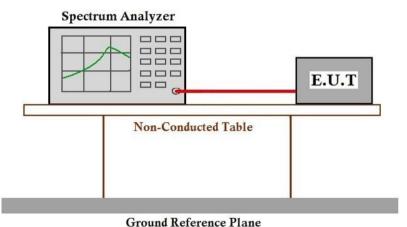
Operating Environment:

Temperature: 23.9 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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Report No.: SHCR220700135902

Page: 14 of 96

7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

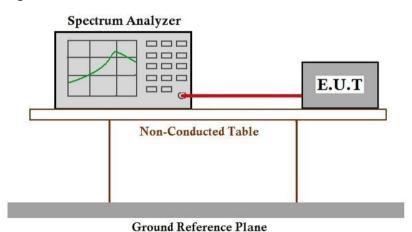
Operating Environment:

Temperature: 23.9 °C Humidity: 56.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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Report No.: SHCR220700135902

Page: 15 of 96

7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 56.5 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

| 7.4.2 Test mode description | | | | | | |
|-----------------------------|--------------|--|--|--|--|--|
| Pre-scan / Final test | Mode Code | Description | | | | |
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. | | | | |



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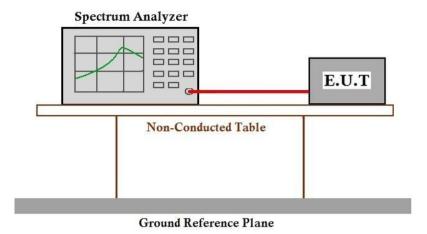
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Page: 16 of 96

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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Report No.: SHCR220700135902

Page: 17 of 96

7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 56.8 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

| 7.0.2 Test mode bescription | | | | | | | |
|-----------------------------|--------------|--|--|--|--|--|--|
| Pre-scan / Final test | Mode Code | Description | | | | | |
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. | | | | | |



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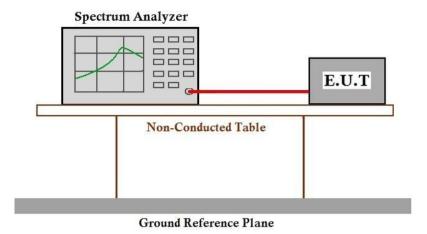
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Page: 18 of 96

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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Report No.: SHCR220700135902

Page: 19 of 96

7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 57.4 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

| 7.0.2 Test mode bescription | | | | | | |
|-----------------------------|--------------|--|--|--|--|--|
| Pre-scan / Final test | Mode Code | Description | | | | |
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. | | | | |



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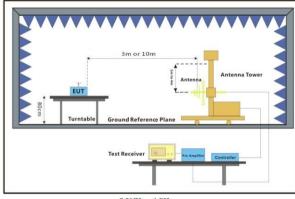
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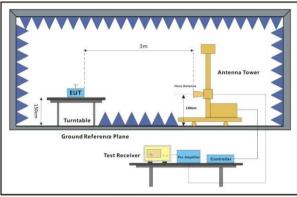


Report No.: SHCR220700135902

Page: 20 of 96

7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.6.4 Measurement Procedure and Data

- 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 fully-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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- q. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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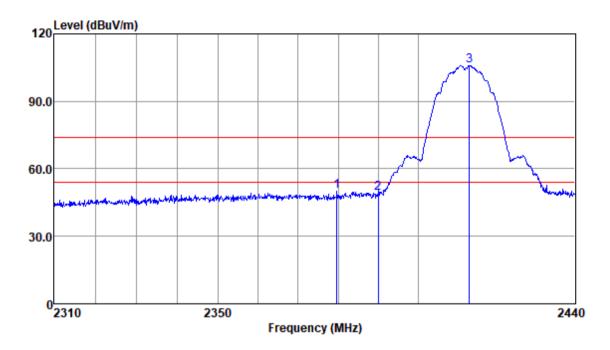
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Report No.: SHCR220700135902

Page: 21 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|--------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2379.71 | 53.80 | 28.40 | 3.17 | 35.17 | 50.20 | 74.00 | -23.80 | Peak |
| 2390.00 | 52.16 | 28.97 | 3.15 | 35.18 | 49.10 | 74.00 | -24.90 | Peak |
| 2413.03 | 108.93 | 29.02 | 3.13 | 35.20 | 105.88 | 74.00 | 31.88 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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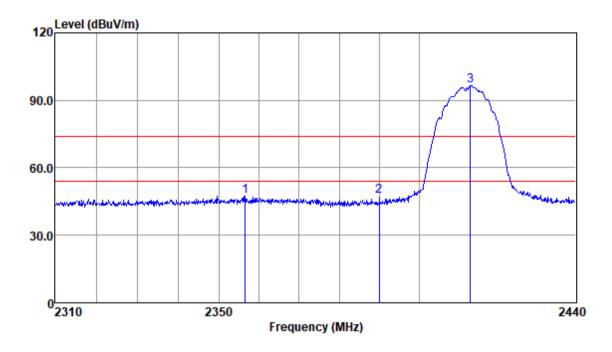
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Report No.: SHCR220700135902

Page: 22 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|------|
| Freq | Level | Factor | Loss | Factor | Level | | | |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2356.63 | 50.48 | 28.92 | 3.12 | 35.16 | 47.36 | 74.00 | -26.64 | Peak |
| 2390.00 | 50.42 | 28.97 | 3.15 | 35.18 | 47.36 | 74.00 | -26.64 | Peak |
| 2413.03 | 99.48 | 29.02 | 3.13 | 35.20 | 96.43 | 74.00 | 22.43 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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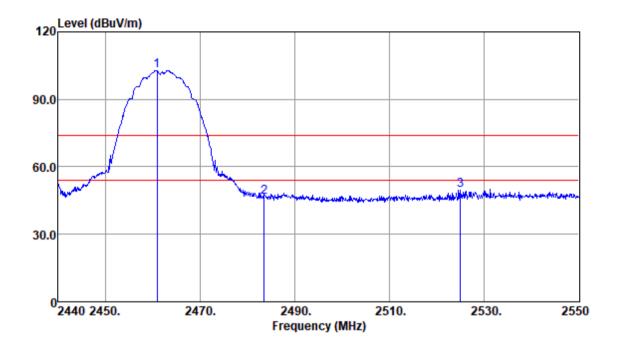
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Report No.: SHCR220700135902

Page: 23 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|--------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.90 | 104.18 | 29.07 | 4.74 | 35.24 | 102.75 | 74.00 | 28.75 | Peak |
| 2483.50 | 47.77 | 29.11 | 4.78 | 35.26 | 46.40 | 74.00 | -27.60 | Peak |
| 2524.92 | 50.97 | 29.26 | 4.84 | 35.30 | 49.77 | 74.00 | -24.23 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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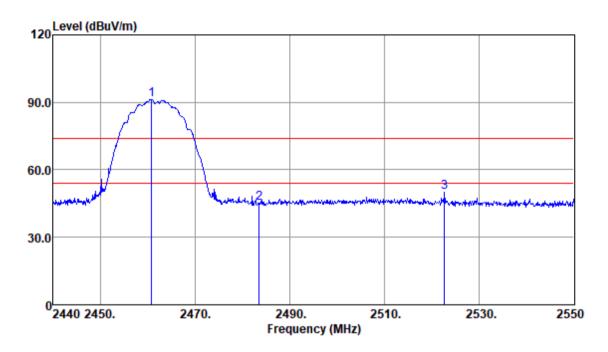
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Report No.: SHCR220700135902

Page: 24 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.79 | 94.28 | 29.07 | 3.13 | 35.24 | 91.24 | 74.00 | 17.24 | Peak |
| 2483.50 | 48.10 | 29.11 | 3.14 | 35.26 | 45.09 | 74.00 | -28.91 | Peak |
| 2522.61 | 52.71 | 29.26 | 3.16 | 35.30 | 49.83 | 74.00 | -24.17 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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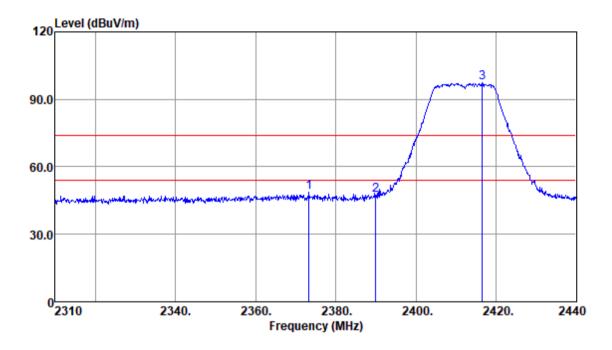
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Report No.: SHCR220700135902

Page: 25 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|--------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2373.31 | 51.67 | 28.96 | 3.17 | 35.17 | 48.63 | 74.00 | -25.37 | Peak |
| 2390.00 | 50.22 | 28.97 | 3.15 | 35.18 | 47.16 | 74.00 | -26.84 | Peak |
| 2416.60 | 100.40 | 29.02 | 3.13 | 35.20 | 97.35 | 74.00 | 23.35 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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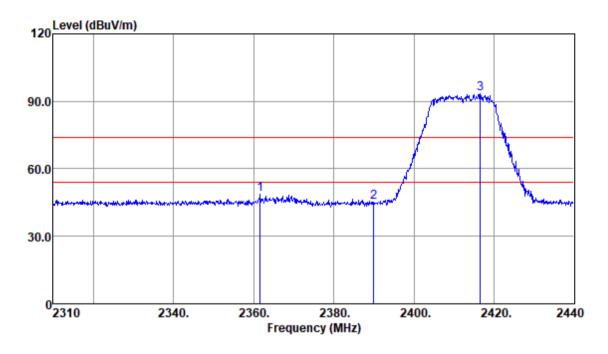
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Report No.: SHCR220700135902

Page: 26 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|------|
| Freq | Level | Factor | Loss | Factor | Level | | | |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2361.61 | 51.68 | 28.92 | 3.15 | 35.16 | 48.59 | 74.00 | -25.41 | Peak |
| 2390.00 | 48.36 | 28.97 | 3.15 | 35.18 | 45.30 | 74.00 | -28.70 | Peak |
| 2416.60 | 96.43 | 29.02 | 3.13 | 35.20 | 93.38 | 74.00 | 19.38 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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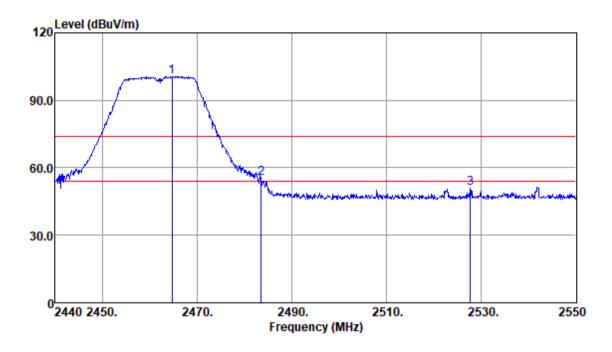
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Report No.: SHCR220700135902

Page: 27 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

| _ | | | | | Emission | | | |
|---------|--------|--------|------|--------|----------|-------|--------|------|
| Freq | Level | Factor | Loss | Factor | Level | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | | | |
| 2464.64 | 103.56 | 29.07 | 3.13 | 35.24 | 100.52 | 74.00 | 26.52 | Peak |
| 2483.50 | 58.41 | 29.11 | 3.14 | 35.26 | 55.40 | 74.00 | -18.60 | Peak |
| 2527.67 | 53.65 | 29.31 | 3.16 | 35.31 | 50.81 | 74.00 | -23.19 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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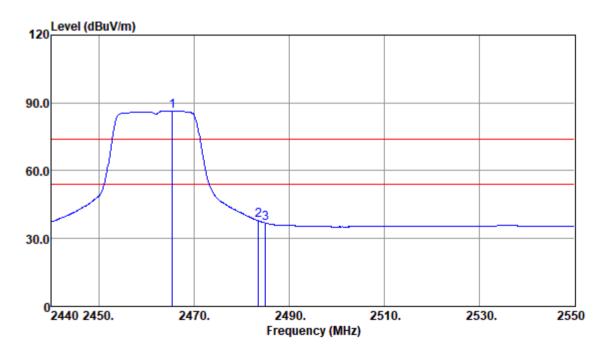
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Report No.: SHCR220700135902

Page: 28 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|---------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2465.41 | 89.51 | 29.07 | 3.13 | 35.24 | 86.47 | 54.00 | 32.47 | Average |
| 2483.50 | 40.91 | 29.11 | 3.14 | 35.26 | 37.90 | 54.00 | -16.10 | Average |
| 2484.99 | 39.82 | 29.11 | 3.14 | 35.26 | 36.81 | 54.00 | -17.19 | Average |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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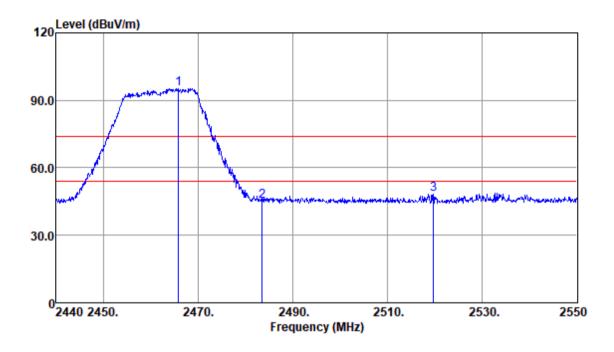
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Report No.: SHCR220700135902

Page: 29 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| F | | | | | Emission | | | D |
|---------|-------|--------|------|--------|----------|--------|--------|------|
| Freq | rever | Factor | LOSS | Factor | Level | Line | | |
| MII | JD | JD / | | | | | | |
| MHZ | abuv | aB/m | ав | ав | dBuv/m | aBuv/m | ав | |
| 2465.85 | 98.38 | 29.07 | 3.13 | 35.24 | 95.34 | 74.00 | 21.34 | Peak |
| 2483.50 | 48.38 | 29.11 | 3.14 | 35.26 | 45.37 | 74.00 | -28.63 | Peak |
| 2519.64 | 51.30 | 29.26 | 3.15 | 35.30 | 48.41 | 74.00 | -25.59 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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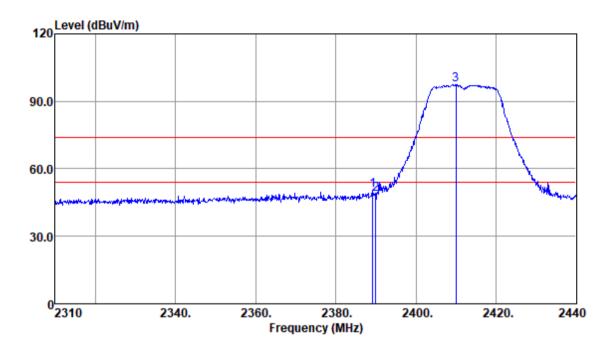
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Report No.: SHCR220700135902

Page: 30 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|--------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2389.17 | 53.67 | 28.97 | 3.15 | 35.18 | 50.61 | 74.00 | -23.39 | Peak |
| 2390.00 | 51.83 | 28.97 | 3.15 | 35.18 | 48.77 | 74.00 | -25.23 | Peak |
| 2409.97 | 100.46 | 29.00 | 3.13 | 35.20 | 97.39 | 74.00 | 23.39 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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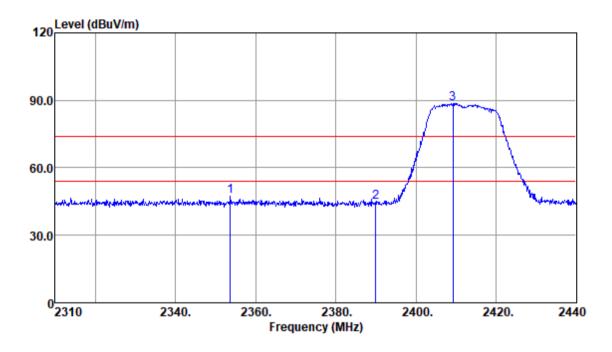
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Report No.: SHCR220700135902

Page: 31 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2353.68 | 50.56 | 28.87 | 3.12 | 35.15 | 47.40 | 74.00 | -26.60 | Peak |
| 2390.00 | 47.97 | 28.97 | 3.15 | 35.18 | 44.91 | 74.00 | -29.09 | Peak |
| 2409.19 | 91.66 | 29.00 | 3.13 | 35.20 | 88.59 | 74.00 | 14.59 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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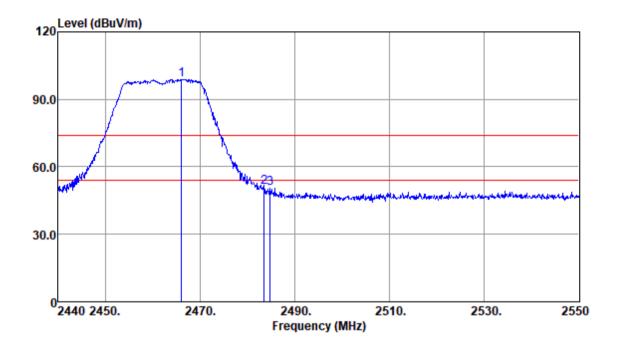
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Report No.: SHCR220700135902

Page: 32 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|--------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2466.07 | 101.99 | 29.07 | 3.13 | 35.24 | 98.95 | 74.00 | 24.95 | Peak |
| 2483.50 | 53.83 | 29.11 | 3.14 | 35.26 | 50.82 | 74.00 | -23.18 | Peak |
| 2484.77 | 53.48 | 29.11 | 3.14 | 35.26 | 50.47 | 74.00 | -23.53 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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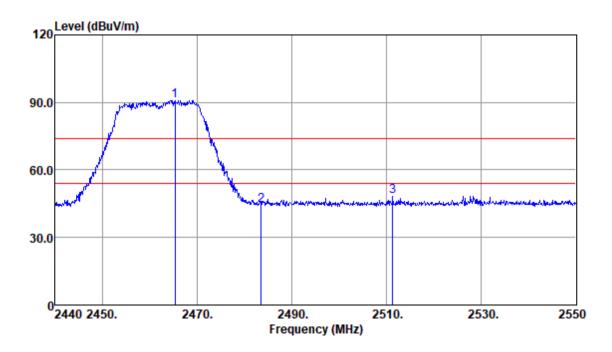
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Report No.: SHCR220700135902

Page: 33 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz | dBuy | dB/m | | | dBuv/m | dBuy/m | dB | |
| | | | | | 90.90 | • | | Peak |
| 2483.50 | 47.23 | 29.11 | 3.14 | 35.26 | 44.22 | 74.00 | -29.78 | Peak |
| 2511.28 | 51.35 | 29.24 | 3.15 | 35.29 | 48.45 | 74.00 | -25.55 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHCR220700135902

Page: 34 of 96

7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| 960-1000 | 500 | 3 |

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 57.8 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

| | 7.7.2 Test mode bescription | | | | | | | | | |
|--------------------------|-----------------------------|--|--|--|--|--|--|--|--|--|
| Pre-scan / Final test | Mode Code | Description | | | | | | | | |
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. | | | | | | | | |



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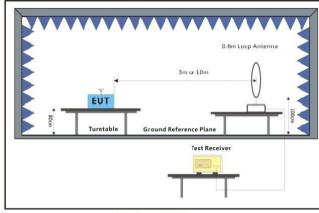
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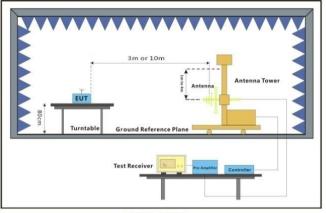


Report No.: SHCR220700135902

Page: 35 of 96

7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.7.4 Measurement Procedure and Data

- 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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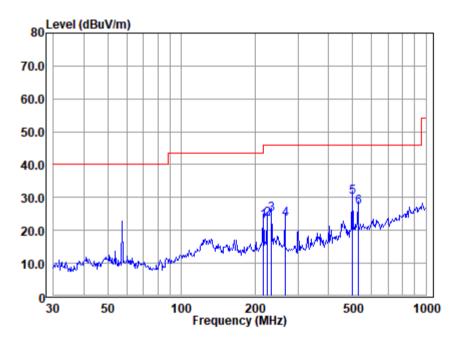
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Report No.: SHCR220700135902

Page: 36 of 96

Test Mode: 01; Polarity: Horizontal



Antenna Polarity :Horizontal EUT/Project :1359HS Test mode :01

| | Freq | | | | | Emission Level | | | Remark |
|-----|--------|----------------|----------------|--------------|----------------|-------------------|--------|------------------|--------|
| | MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| | | 41.97 41.89 | 9.90 10.29 | 3.64 3.73 | 32.55 32.53 | 22.96 23.38 | | -23.04 -22.62 | - |
| 3 2 | 233.49 | 42.63 | 10.86 | 3.77 | 32.39 | 24.87 | 46.00 | -21.13 | QР |
| | | 39.67 40.19 | 12.32 17.90 | 4.14 5.61 | 32.76 33.65 | 23.37 30.05 | | -22.63 -15.95 | - |
| 6 5 | 527.57 | 36.75 | 18.24 | 5.81 | 33.80 | 27.00 | 46.00 | -19.00 | QP |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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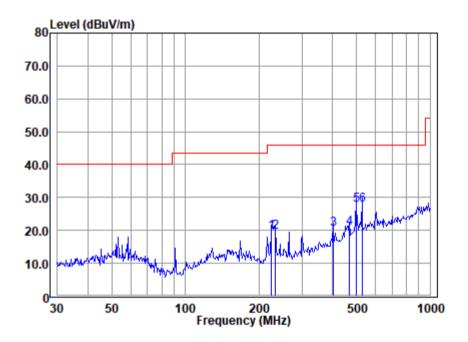
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Report No.: SHCR220700135902

Page: 37 of 96

Test Mode: 01; Polarity: Vertical



Antenna Polarity : Vertical EUT/Project :1359HS Test mode :01

| Freq | | | | | Emission Level | | | Remark |
|---------|---------|-------|------|-------|-------------------|----------|--------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuy/m | dB | |
| MUZ | ubuv | ub/m | ub | ub | ubuv/m | ubuv/III | ub | |
| 1 225.4 | 38.08 | 10.29 | 3.73 | 32.53 | 19.57 | 46.00 | -26.43 | QP |
| 2 233.4 | 9 37.24 | 10.86 | 3.77 | 32.39 | 19.48 | 46.00 | -26.52 | QP |
| 3 401.1 | 1 32.91 | 15.63 | 5.03 | 33.33 | 20.24 | 46.00 | -25.76 | QP |
| 4 468.1 | 7 31.55 | 17.23 | 5.45 | 33.69 | 20.54 | 46.00 | -25.46 | QP |
| 5 498.7 | 38.11 | 17.85 | 5.58 | 33.74 | 27.80 | 46.00 | -18.20 | QP |
| 6 527.5 | 7 37.49 | 18.24 | 5.81 | 33.80 | 27.74 | 46.00 | -18.26 | QP |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHCR220700135902

Page: 38 of 96

7.8 Radiated Spurious Emissions Above 1GHz

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000 | 500 | 3 |

7.8.1 E.U.T. Operation

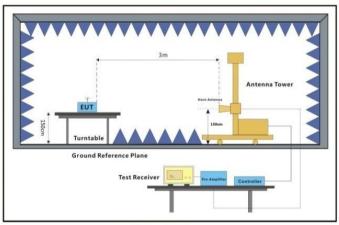
Operating Environment:

Temperature: 24.0 °C Humidity: 57.9 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 01 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.8.3 Test Setup Diagram



Above 1GHz



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Report No.: SHCR220700135902

Page: 39 of 96

7.8.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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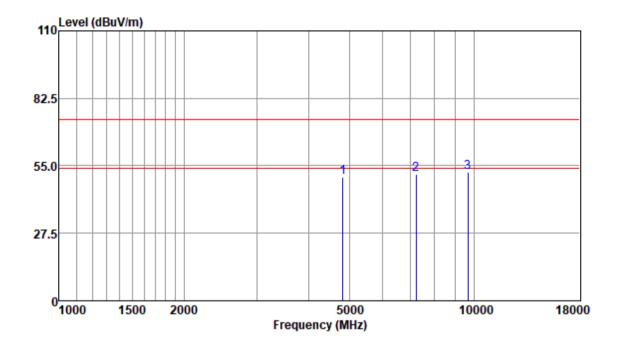
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Report No.: SHCR220700135902

Page: 40 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.00 | 45.81 | 33.78 | 7.46 | 36.79 | 50.26 | 74.00 | -23.74 | Peak |
| 7236.00 | 42.87 | 36.35 | 7.80 | 35.50 | 51.52 | 74.00 | -22.48 | Peak |
| 9648.00 | 39.67 | 37.69 | 8.57 | 33.56 | 52.37 | 74.00 | -21.63 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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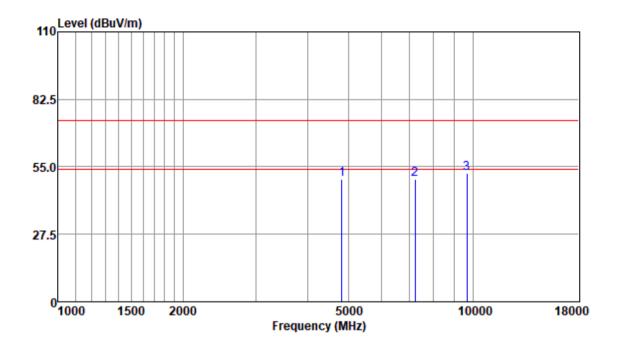
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Report No.: SHCR220700135902

Page: 41 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.00 | 45.50 | 33.78 | 7.46 | 36.79 | 49.95 | 74.00 | -24.05 | Peak |
| 7236.00 | 41.37 | 36.35 | 7.80 | 35.50 | 50.02 | 74.00 | -23.98 | Peak |
| 9648.00 | 39.69 | 37.69 | 8.57 | 33.56 | 52.39 | 74.00 | -21.61 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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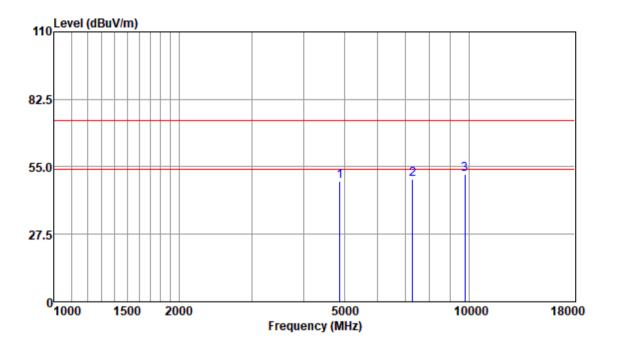
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Report No.: SHCR220700135902

Page: 42 of 96

Test Mode: 01: Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

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| Fred | | | | | Emission Level | | | Remark |
|---------|-------|----------|------|----------|-------------------|-------|--------|--------|
| 1164 | LCVCI | i de coi | 2033 | i de coi | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | | | |
| 4874.00 | 44.73 | 33.93 | 7.46 | 36.81 | 49.31 | 74.00 | -24.69 | Peak |
| 7311.00 | 41.20 | 36.47 | 7.82 | 35.44 | 50.05 | 74.00 | -23.95 | Peak |
| 9748.00 | 39.17 | 37.68 | 8.57 | 33.50 | 51.92 | 74.00 | -22.08 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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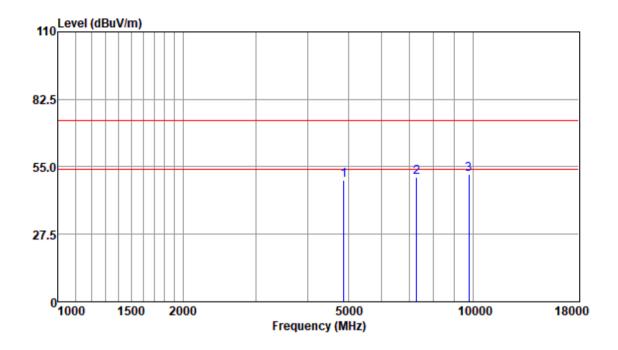
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Report No.: SHCR220700135902

Page: 43 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

| Гпол | | | | | Emission | | | Domanic |
|---------|-------|--------|------|--------|----------|--------|--------|---------|
| Freq | rever | ractor | LOSS | ractor | Level | | | |
| | | | | | | | | |
| MHZ | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.00 | 44.81 | 33.93 | 7.46 | 36.81 | 49.39 | 74.00 | -24.61 | Peak |
| 7311.00 | 41.83 | 36.47 | 7.82 | 35.44 | 50.68 | 74.00 | -23.32 | Peak |
| 9748.00 | 39.06 | 37.68 | 8.57 | 33.50 | 51.81 | 74.00 | -22.19 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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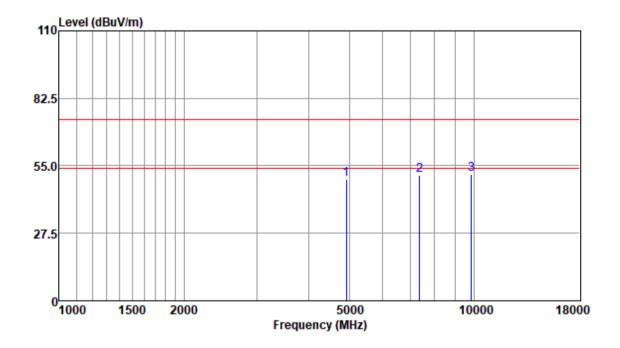
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Report No.: SHCR220700135902

Page: 44 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

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| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|------|
| Freq | Level | Factor | Loss | Factor | Level | | | |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.00 | 45.06 | 33.98 | 7.46 | 36.82 | 49.68 | 74.00 | -24.32 | Peak |
| 7386.00 | 42.02 | 36.48 | 7.86 | 35.37 | 50.99 | 74.00 | -23.01 | Peak |
| 9848.00 | 38.95 | 37.56 | 8.58 | 33.45 | 51.64 | 74.00 | -22.36 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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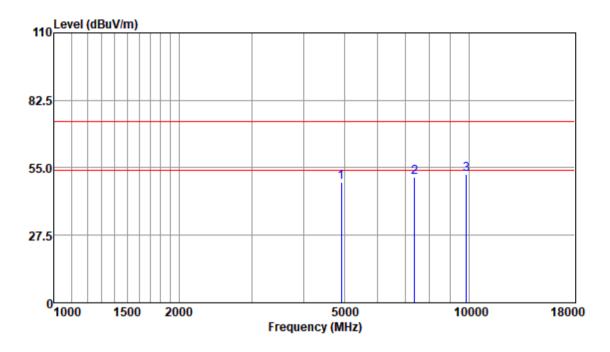
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Report No.: SHCR220700135902

Page: 45 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.00 | 44.59 | 33.98 | 7.46 | 36.82 | 49.21 | 74.00 | -24.79 | Peak |
| 7386.00 | 42.19 | 36.48 | 7.86 | 35.37 | 51.16 | 74.00 | -22.84 | Peak |
| 9848.00 | 39.66 | 37.56 | 8.58 | 33.45 | 52.35 | 74.00 | -21.65 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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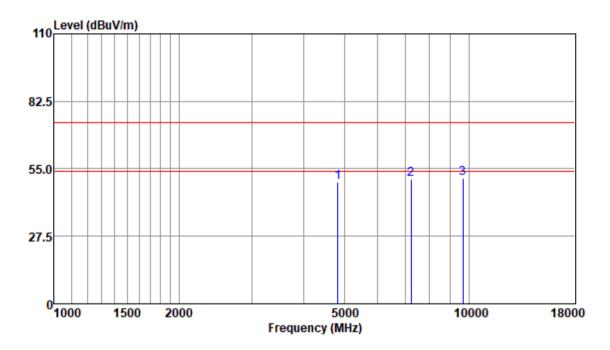
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Report No.: SHCR220700135902

Page: 46 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.00 | 44.88 | 33.78 | 7.46 | 36.79 | 49.33 | 74.00 | -24.67 | Peak |
| 7236.00 | 42.00 | 36.35 | 7.80 | 35.50 | 50.65 | 74.00 | -23.35 | Peak |
| 9648.00 | 38.38 | 37.69 | 8.57 | 33.56 | 51.08 | 74.00 | -22.92 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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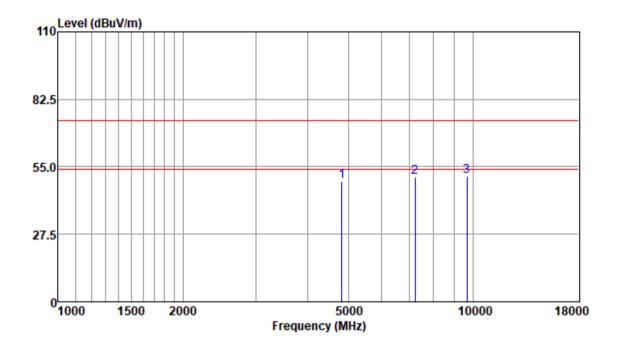
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Report No.: SHCR220700135902

Page: 47 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.00 | 44.48 | 33.78 | 7.46 | 36.79 | 48.93 | 74.00 | -25.07 | Peak |
| 7236.00 | 42.04 | 36.35 | 7.80 | 35.50 | 50.69 | 74.00 | -23.31 | Peak |
| 9648.00 | 38.61 | 37.69 | 8.57 | 33.56 | 51.31 | 74.00 | -22.69 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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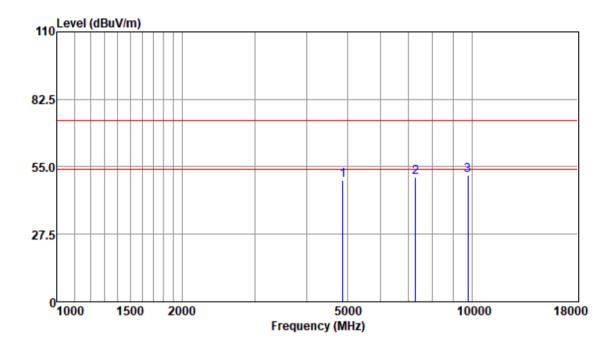
sgs.china@sgs.com



Report No.: SHCR220700135902

Page: 48 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

中国・上海・松江区金都西路588号

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.00 | 44.79 | 33.93 | 7.46 | 36.81 | 49.37 | 74.00 | -24.63 | Peak |
| 7311.00 | 41.76 | 36.47 | 7.82 | 35.44 | 50.61 | 74.00 | -23.39 | Peak |
| 9748.00 | 38.74 | 37.68 | 8.57 | 33.50 | 51.49 | 74.00 | -22.51 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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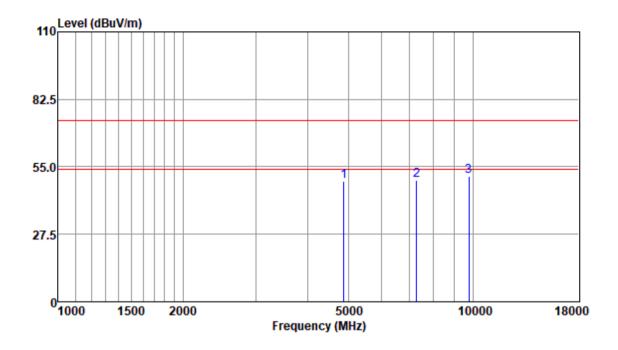
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Report No.: SHCR220700135902

Page: 49 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

| F=== | | | | | Emission | | | Damanla |
|---------|-------|--------|------|--------|----------|-------|--------|---------|
| Freq | rever | Factor | LOSS | Factor | Level | Line | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | | | |
| 4874.00 | 44.65 | 33.93 | 7.46 | 36.81 | 49.23 | 74.00 | -24.77 | Peak |
| 7311.00 | 40.80 | 36.47 | 7.82 | 35.44 | 49.65 | 74.00 | -24.35 | Peak |
| 9748.00 | 38.53 | 37.68 | 8.57 | 33.50 | 51.28 | 74.00 | -22.72 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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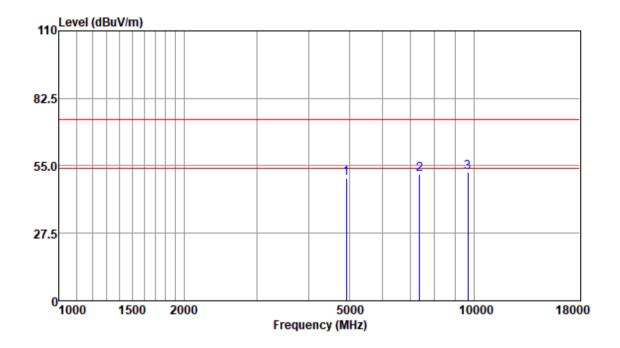
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Report No.: SHCR220700135902

Page: 50 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.00 | 45.23 | 33.98 | 7.46 | 36.82 | 49.85 | 74.00 | -24.15 | Peak |
| 7386.00 | 42.64 | 36.48 | 7.86 | 35.37 | 51.61 | 74.00 | -22.39 | Peak |
| 9648.00 | 39.64 | 37.69 | 8.57 | 33.56 | 52.34 | 74.00 | -21.66 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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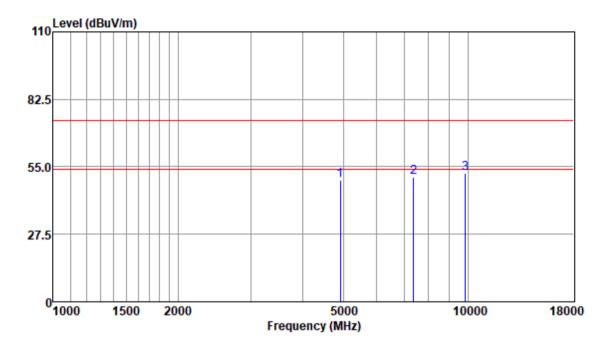
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Report No.: SHCR220700135902

Page: 51 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.00 | 45.00 | 33.98 | 7.46 | 36.82 | 49.62 | 74.00 | -24.38 | Peak |
| 7386.00 | 41.88 | 36.48 | 7.86 | 35.37 | 50.85 | 74.00 | -23.15 | Peak |
| 9848.00 | 39.73 | 37.56 | 8.58 | 33.45 | 52.42 | 74.00 | -21.58 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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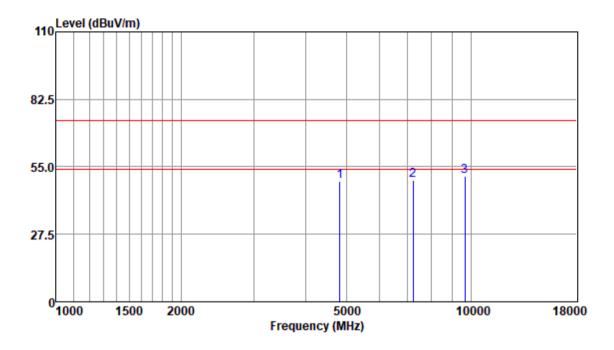
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Report No.: SHCR220700135902

Page: 52 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.00 | 44.47 | 33.78 | 7.46 | 36.79 | 48.92 | 74.00 | -25.08 | Peak |
| 7236.00 | 41.03 | 36.35 | 7.80 | 35.50 | 49.68 | 74.00 | -24.32 | Peak |
| 9648.00 | 38.52 | 37.69 | 8.57 | 33.56 | 51.22 | 74.00 | -22.78 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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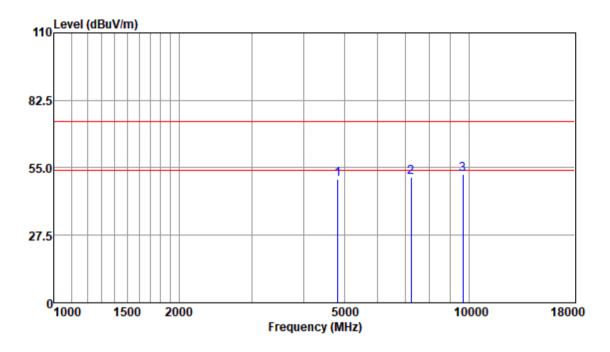
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Report No.: SHCR220700135902

Page: 53 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.00 | 45.71 | 33.78 | 7.46 | 36.79 | 50.16 | 74.00 | -23.84 | Peak |
| 7236.00 | 42.66 | 36.35 | 7.80 | 35.50 | 51.31 | 74.00 | -22.69 | Peak |
| 9648.00 | 39.73 | 37.69 | 8.57 | 33.56 | 52.43 | 74.00 | -21.57 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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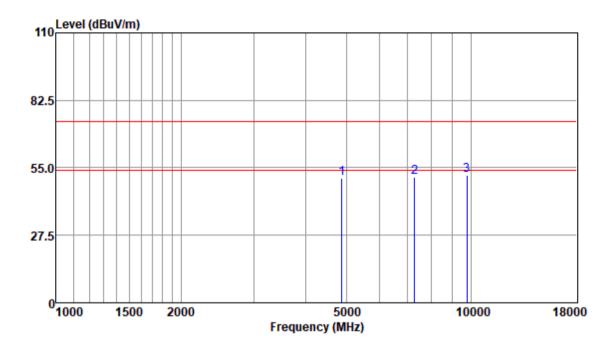
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Report No.: SHCR220700135902

Page: 54 of 96

Test Mode: 01: Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

中国・上海・松江区金都西路588号

| - | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|------|
| Freq | revel | Factor | LOSS | Factor | Level | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.00 | 46.17 | 33.93 | 7.46 | 36.81 | 50.75 | 74.00 | -23.25 | Peak |
| 7311.00 | 42.11 | 36.47 | 7.82 | 35.44 | 50.96 | 74.00 | -23.04 | Peak |
| 9748.00 | 39.34 | 37.68 | 8.57 | 33.50 | 52.09 | 74.00 | -21.91 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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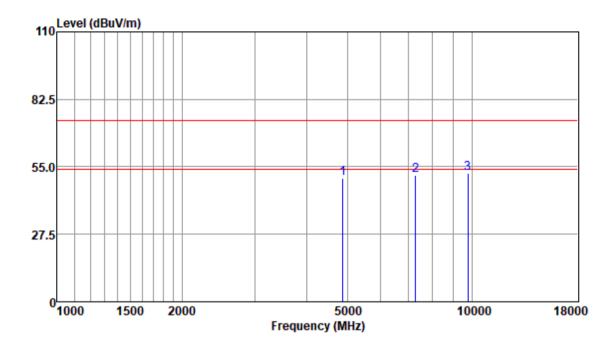
sgs.china@sgs.com



Report No.: SHCR220700135902

Page: 55 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|------|
| Freq | Level | Factor | Loss | Factor | Level | | | |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.00 | 45.69 | 33.93 | 7.46 | 36.81 | 50.27 | 74.00 | -23.73 | Peak |
| 7311.00 | 42.78 | 36.47 | 7.82 | 35.44 | 51.63 | 74.00 | -22.37 | Peak |
| 9748.00 | 39.54 | 37.68 | 8.57 | 33.50 | 52.29 | 74.00 | -21.71 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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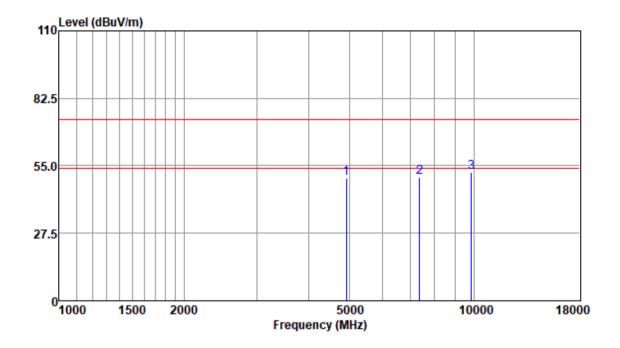
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Report No.: SHCR220700135902

Page: 56 of 96

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

| | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.00 | 45.26 | 33.98 | 7.46 | 36.82 | 49.88 | 74.00 | -24.12 | Peak |
| 7386.00 | 41.54 | 36.48 | 7.86 | 35.37 | 50.51 | 74.00 | -23.49 | Peak |
| 9848.00 | 39.56 | 37.56 | 8.58 | 33.45 | 52.25 | 74.00 | -21.75 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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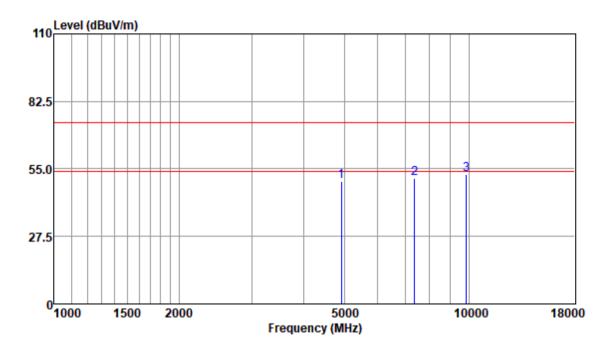
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Report No.: SHCR220700135902

Page: 57 of 96

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

中国・上海・松江区金都西路588号

| - | | | | | Emission | | | |
|---------|-------|--------|------|--------|----------|--------|--------|--------|
| Freq | revel | Factor | LOSS | Factor | Level | Line | Limit | Kemark |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.00 | 45.18 | 33.98 | 7.46 | 36.82 | 49.80 | 74.00 | -24.20 | Peak |
| 7386.00 | 42.20 | 36.48 | 7.86 | 35.37 | 51.17 | 74.00 | -22.83 | Peak |
| 9848.00 | 39.92 | 37.56 | 8.58 | 33.45 | 52.61 | 74.00 | -21.39 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHCR220700135902

Page: 58 of 96

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SHCR2207001359HS

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2207001359HS

10 Appendix

- 1. Duty Cycle
- 1.1 Ant1

1.1.1 Test Result

| | Ant1 | | | | | | | | | |
|-------------------|------------|--------------------|--------------|----------------|-------------------|--------------------------------------|--------------------------|--|--|--|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) | | | |
| | | 2412 | 12.416 | 12.546 | 98.96 | 0.05 | 0.03 | | | |
| 802.11b | SISO | 2437 | 12.417 | 12.547 | 98.96 | 0.05 | 0.03 | | | |
| | | 2462 | 12.420 | 12.550 | 98.96 | 0.05 | 0.03 | | | |
| | | 2412 | 2.065 | 2.195 | 94.08 | 0.27 | 0.06 | | | |
| 802.11g | SISO | 2437 | 2.065 | 2.194 | 94.12 | 0.26 | 0.06 | | | |
| | | 2462 | 2.065 | 2.195 | 94.08 | 0.27 | 0.03 | | | |
| 000.44 | | 2412 | 1.920 | 2.050 | 93.66 | 0.28 | 0.00 | | | |
| 802.11n (HT20) | SISO | 2437 | 1.921 | 2.050 | 93.71 | 0.28 | 0.00 | | | |
| (11120) | | 2462 | 1.921 | 2.050 | 93.71 | 0.28 | 0.00 | | | |



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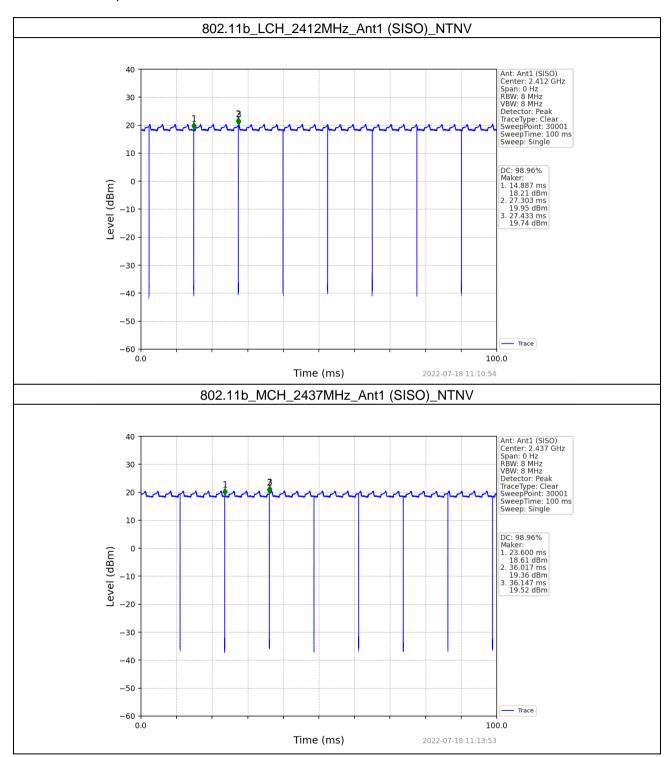
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Page: 59 of 96

1.1.2 Test Graph





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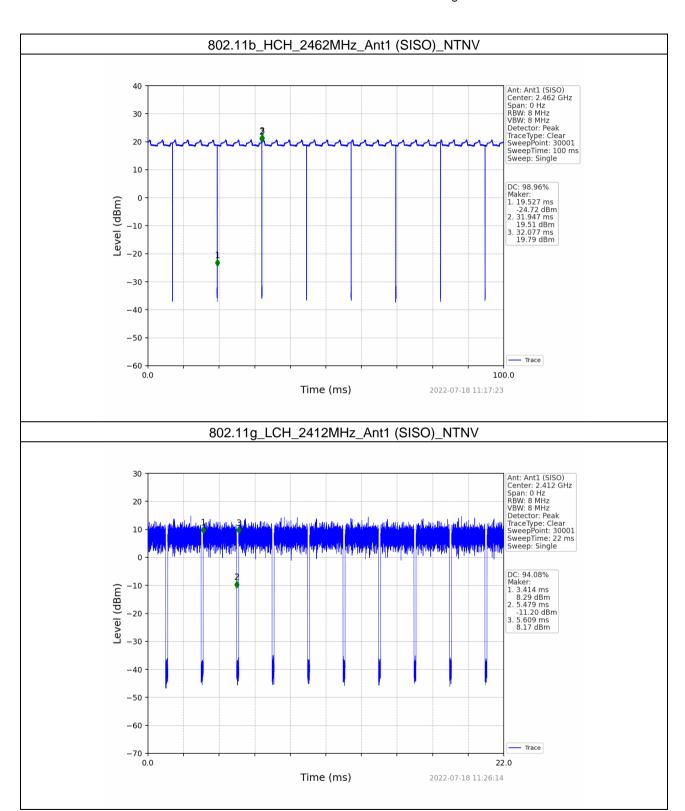
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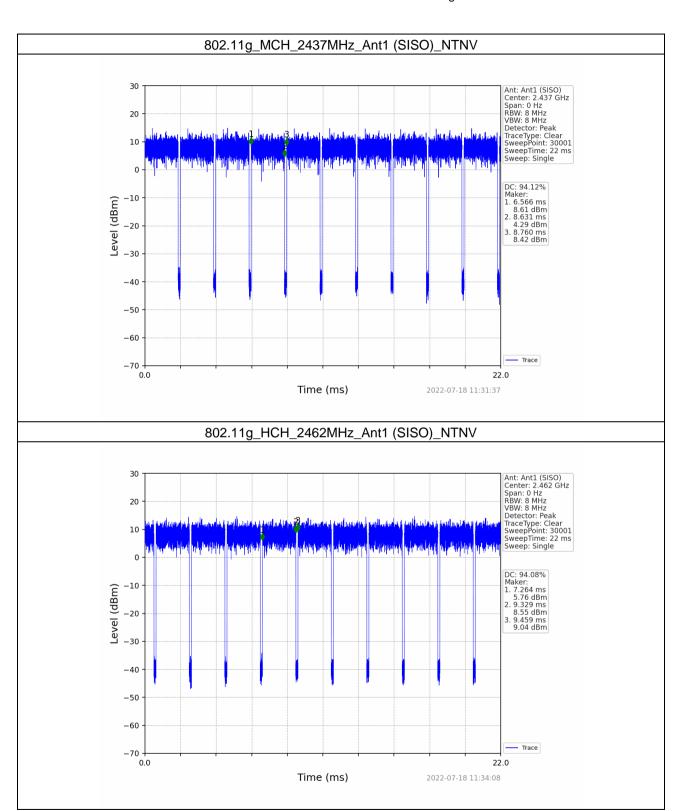
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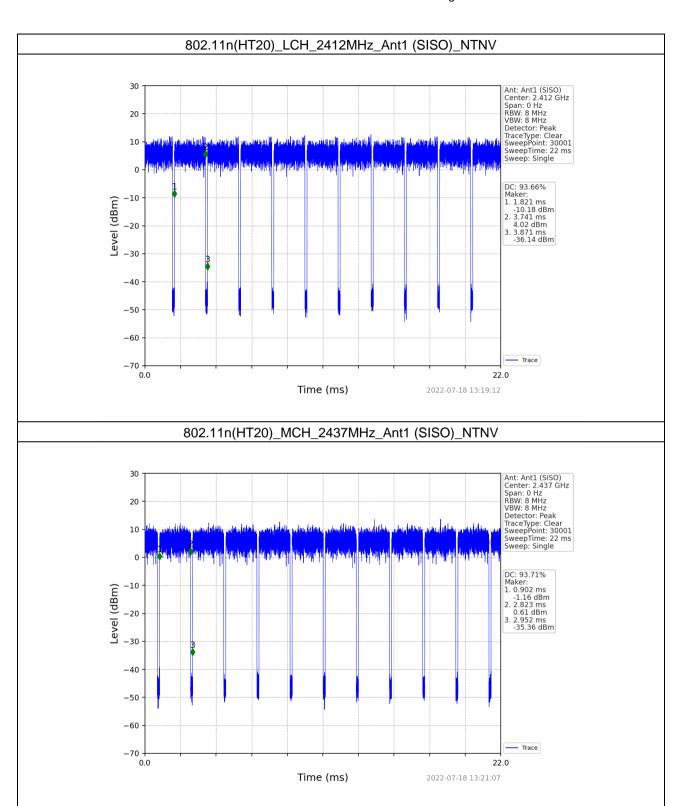
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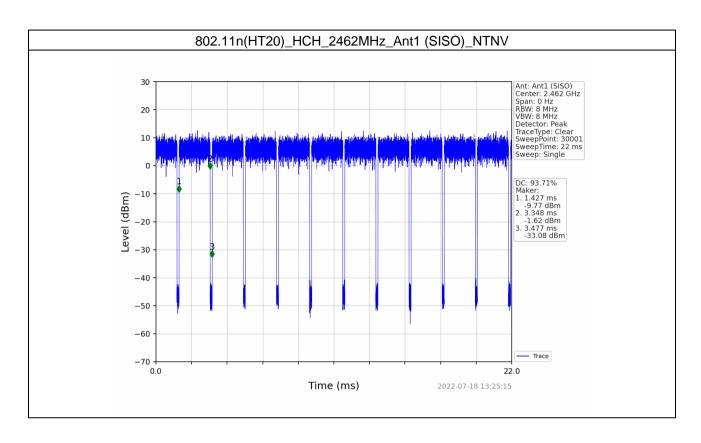
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Page: 63 of 96





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Report No.: SHCR220700135902

Page: 64 of 96

2. Bandwidth

2.1 OBW

2.1.1 Test Result

| Mode | TX | Frequency | ANIT | 99% Occupied Bandwidth (MHz) | Verdict |
|-------------------|------|-----------|------|------------------------------|---------|
| iviode | Type | (MHz) | ANT | Result | verdict |
| | | 2412 | 1 | 14.145 | Pass |
| 802.11b | SISO | 2437 | 1 | 14.153 | Pass |
| | | 2462 | 1 | 14.135 | Pass |
| | | 2412 | 1 | 18.013 | Pass |
| 802.11g | SISO | 2437 | 1 | 18.026 | Pass |
| | | 2462 | 1 | 17.928 | Pass |
| 000.44 | | 2412 | 1 | 18.680 | Pass |
| 802.11n (HT20) | SISO | 2437 | 1 | 19.142 | Pass |
| (11120) | | 2462 | 1 | 19.004 | Pass |



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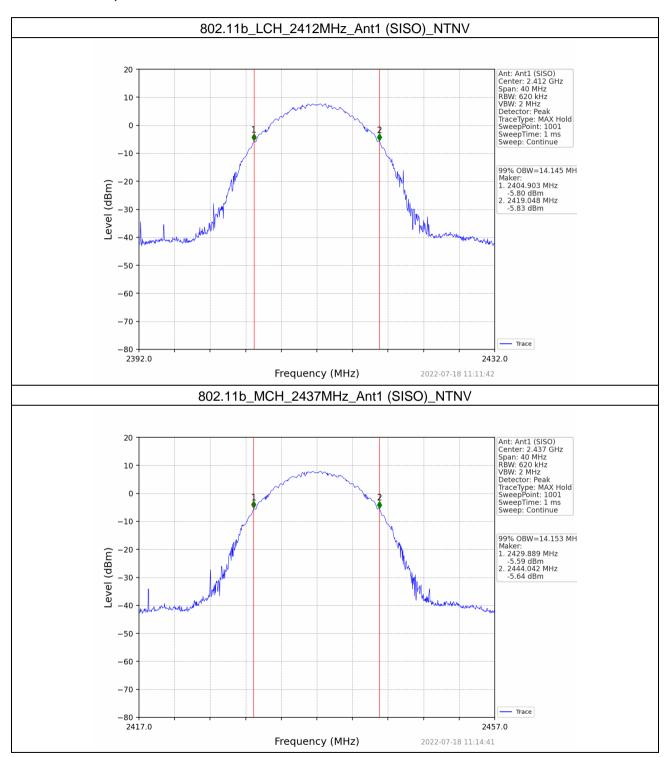


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Report No.: SHCR220700135902

Page: 65 of 96

2.1.2 Test Graph





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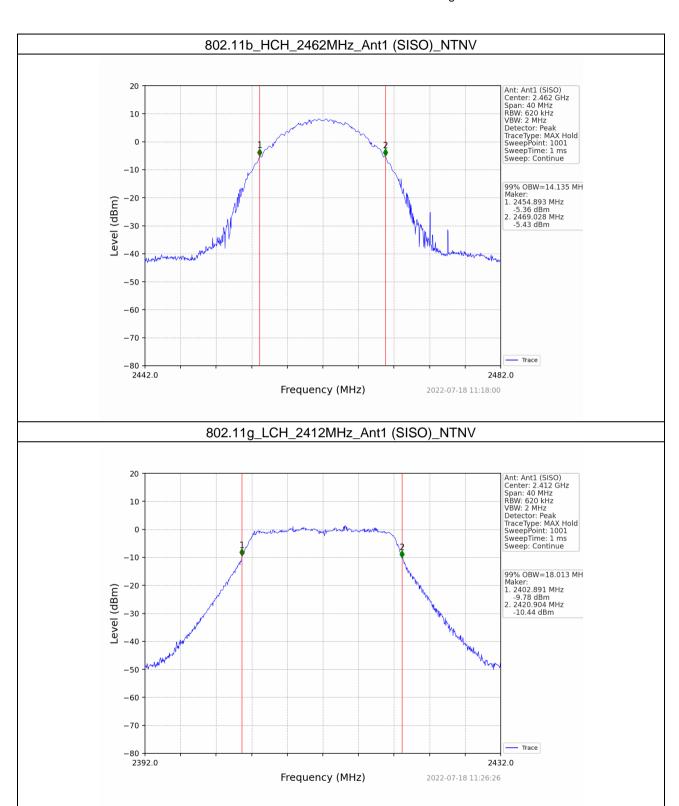
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Report No.: SHCR220700135902

Page: 66 of 96





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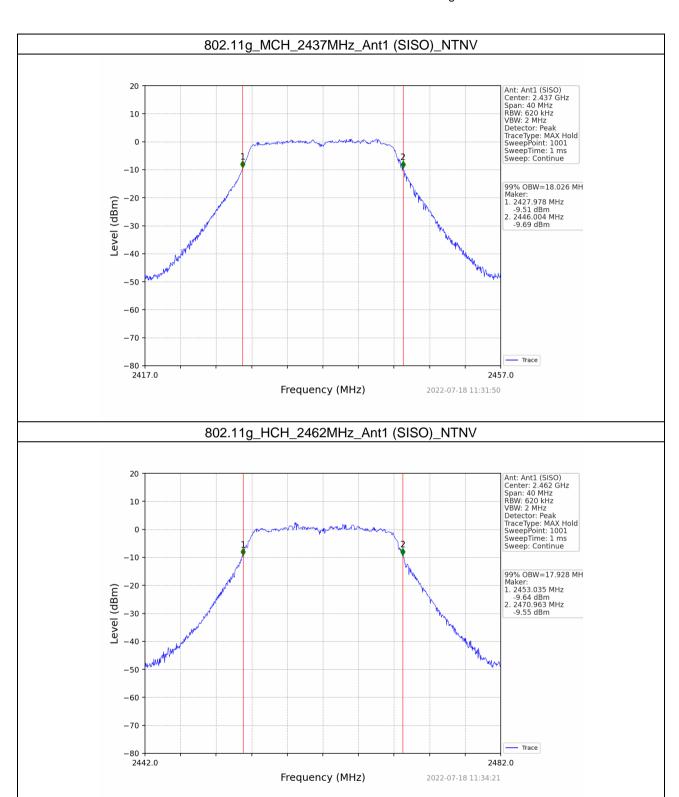
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Page: 67 of 96





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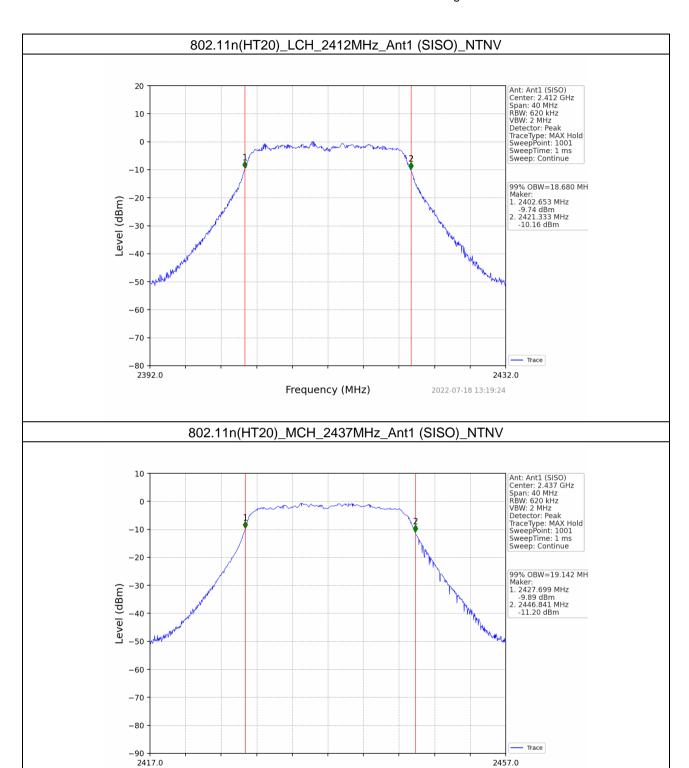
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Frequency (MHz)

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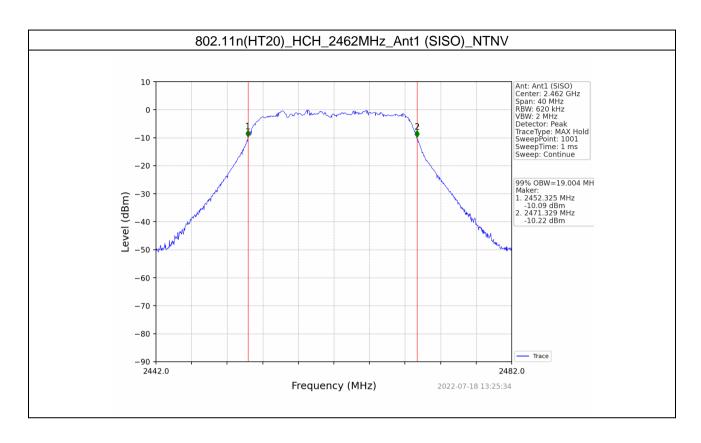
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Page: 69 of 96





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Report No.: SHCR220700135902

Page: 70 of 96

2.2 6dB BW

2.2.1 Test Result

| Mode | TX | Frequency | ANIT | 6dB Bandv | vidth (MHz) | \/owdiat |
|-------------------|------|-----------|------|-----------|-------------|----------|
| Mode | Туре | (MHz) | ANT | Result | Limit | Verdict |
| | | 2412 | 1 | 9.087 | >=0.5 | Pass |
| 802.11b | SISO | 2437 | 1 | 9.101 | >=0.5 | Pass |
| | | 2462 | 1 | 9.092 | >=0.5 | Pass |
| | | 2412 | 1 | 16.353 | >=0.5 | Pass |
| 802.11g | SISO | 2437 | 1 | 16.348 | >=0.5 | Pass |
| | | 2462 | 1 | 16.357 | >=0.5 | Pass |
| 222.44 | | 2412 | 1 | 17.547 | >=0.5 | Pass |
| 802.11n (HT20) | SISO | 2437 | 1 | 17.353 | >=0.5 | Pass |
| (11120) | | 2462 | 1 | 17.564 | >=0.5 | Pass |



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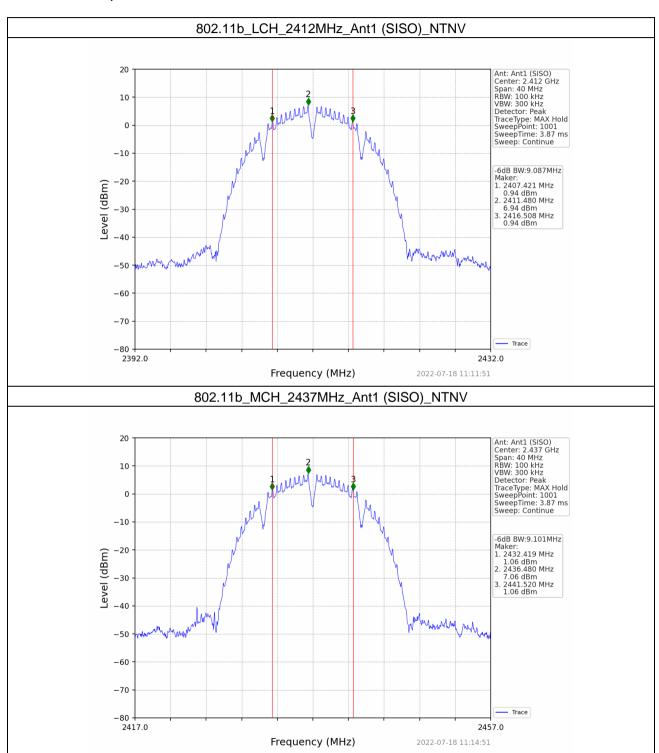
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Report No.: SHCR220700135902

Page: 71 of 96

2.2.2 Test Graph





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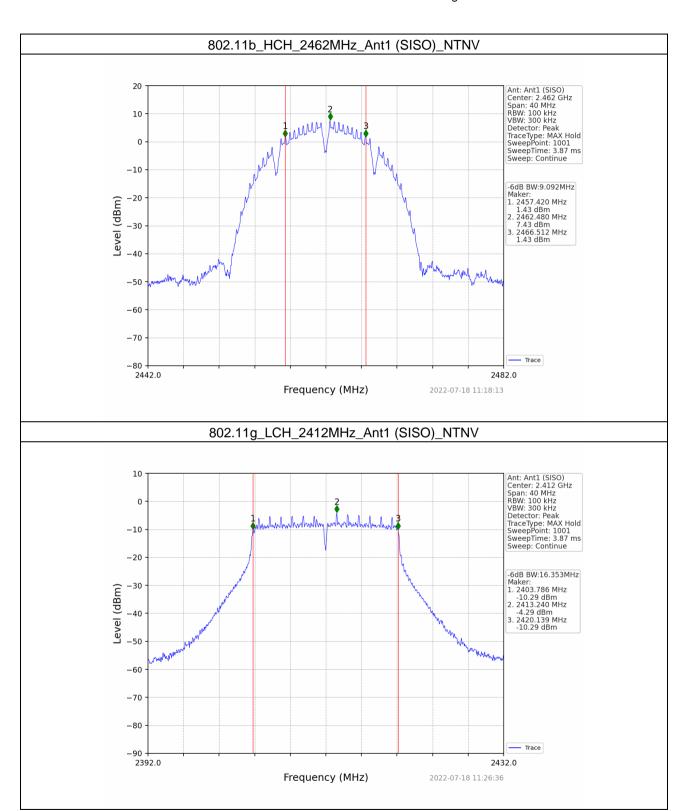
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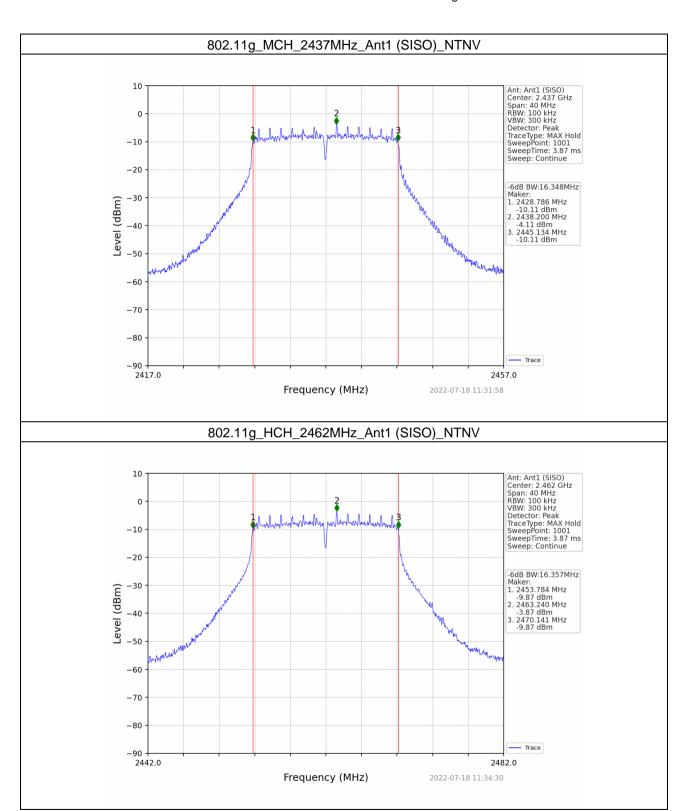
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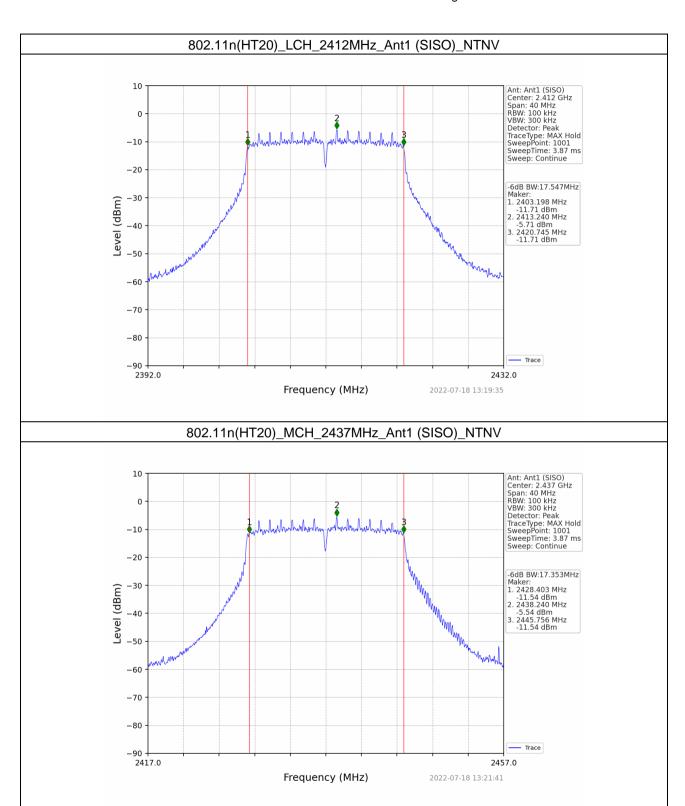
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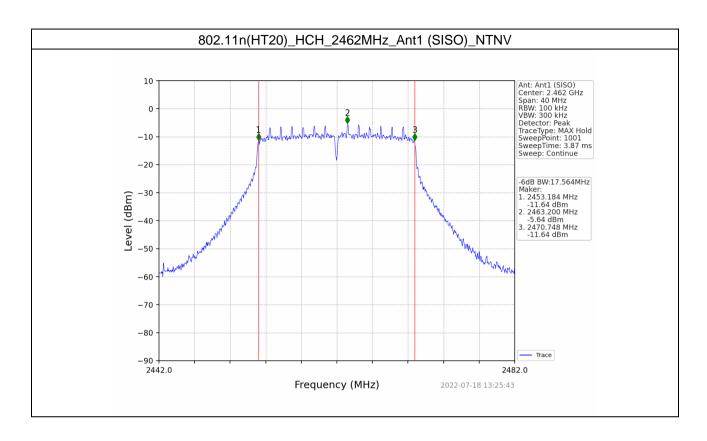
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Report No.: SHCR220700135902

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Report No.: SHCR220700135902

Page: 76 of 96

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency | Maximum Peak Conducted Output Power (dBm) | | \/amaliat |
|-------------------|--------------|----------------|---|-------|-----------|
| | | (MHz) | ANT1 | Limit | Verdict |
| 802.11b | SISO | 2412 | 17.81 | <=30 | Pass |
| | | 2437 | 18.02 | <=30 | Pass |
| | | 2462 | 18.24 | <=30 | Pass |
| 802.11g | SISO | 2412 | 14.17 | <=30 | Pass |
| | | 2437 | 14.44 | <=30 | Pass |
| | | 2462 | 14.71 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 12.94 | <=30 | Pass |
| | | 2437 | 13.03 | <=30 | Pass |
| | | 2462 | 13.19 | <=30 | Pass |
| Note1: Anter | nna Gain: Ai | nt1: -1.53dBi; | | | |

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Vordist |
|--------------------|------------------------|-------------|-----------------|
| | ANT1 | Limit | Verdict |
| 2412 | -7.76 | <=8 | Pass |
| 2437 | -7.76 | <=8 | Pass |
| 2462 | -8.29 | <=8 | Pass |
| 2412 | -19.71 | <=8 | Pass |
| 2437 | -19.44 | <=8 | Pass |
| 2462 | -18.74 | <=8 | Pass |
| 2412 | -20.96 | <=8 | Pass |
| 2437 | -20.60 | <=8 | Pass |
| 2462 | -18.77 | <=8 | Pass |
| | 2462 | 2462 -18.77 | 2462 -18.77 <=8 |

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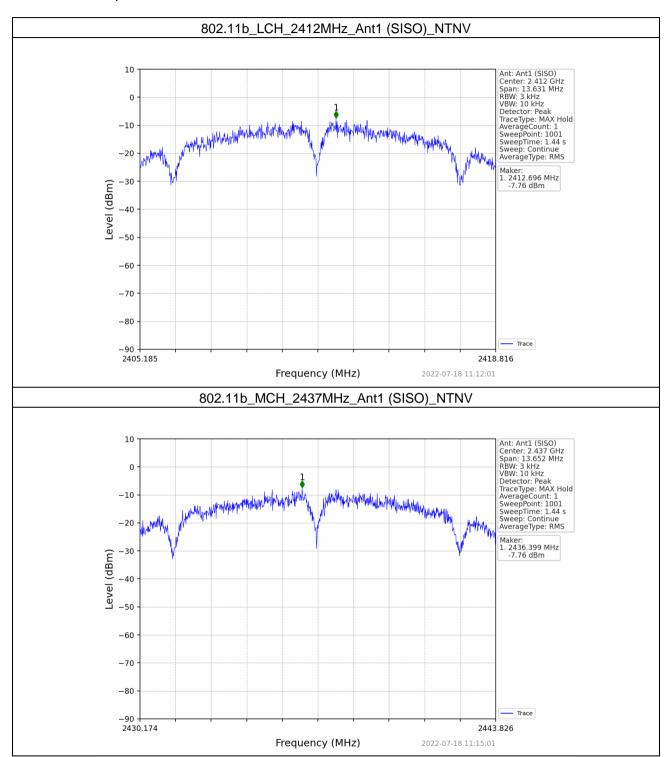
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Report No.: SHCR220700135902

Page: 77 of 96

4.1.2 Test Graph





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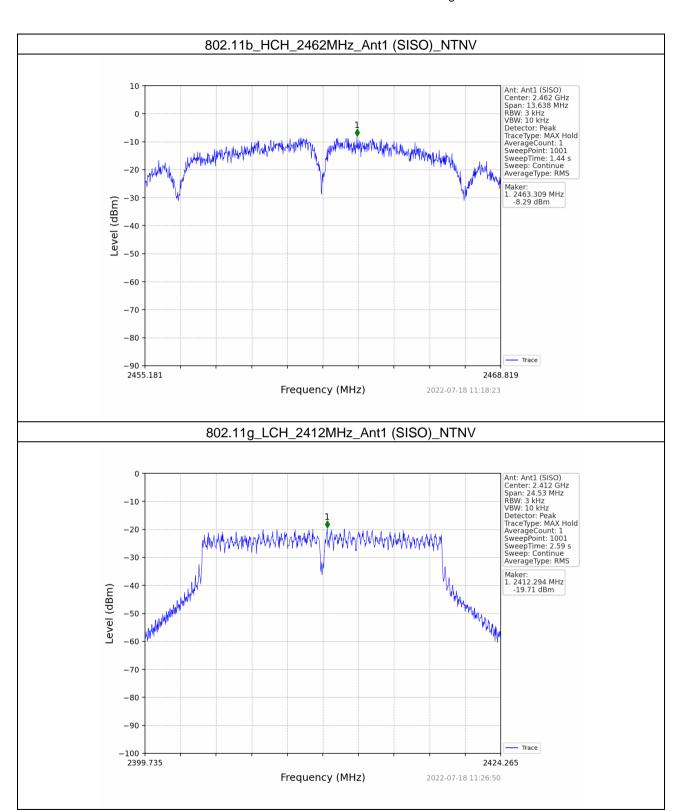
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Report No.: SHCR220700135902

Page: 78 of 96





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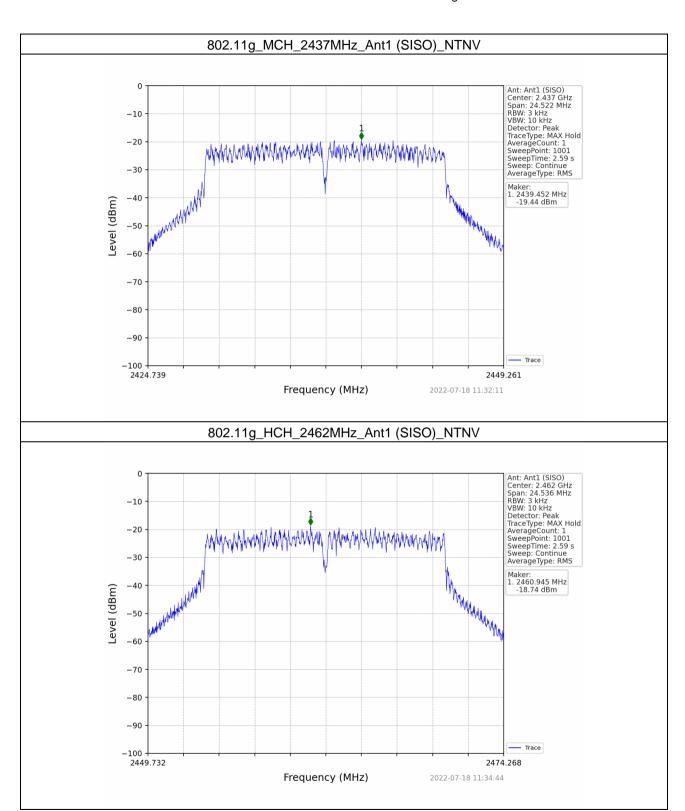
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Page: 79 of 96





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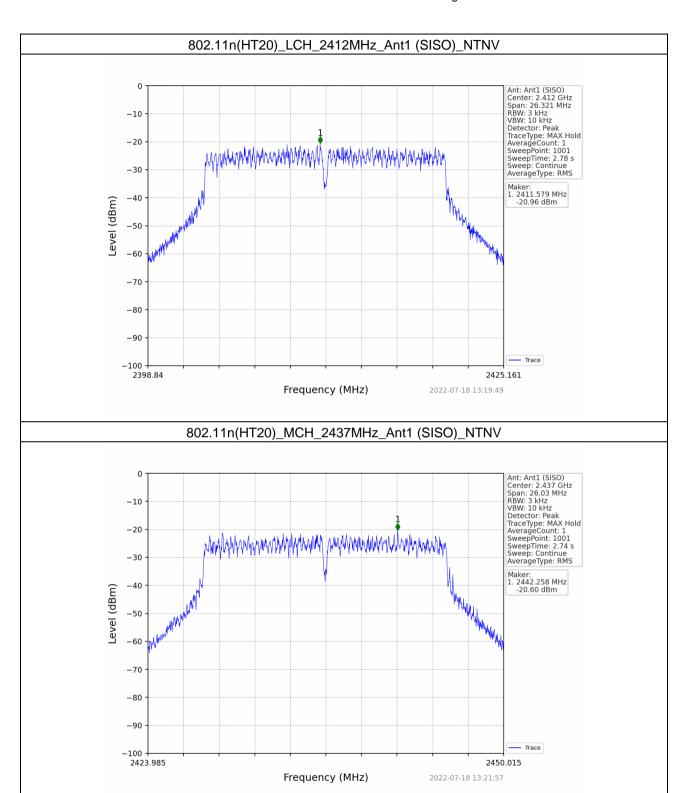
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Page: 80 of 96





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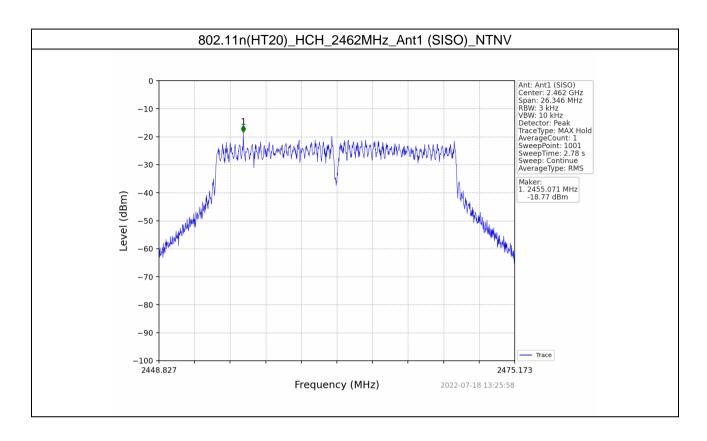
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Page: 81 of 96





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Report No.: SHCR220700135902

Page: 82 of 96

5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------|------------|--------------------|-----|-----------------------------|
| 802.11b | SISO | 2412 | 1 | 6.78 |
| | | 2437 | 1 | 7.12 |
| | | 2462 | 1 | 7.38 |
| 802.11g | SISO | 2412 | 1 | -4.43 |
| | | 2437 | 1 | -4.56 |
| | | 2462 | 1 | -4.02 |
| 802.11n (HT20) | SISO | 2412 | 1 | -5.70 |
| | | 2437 | 1 | -5.66 |
| | | 2462 | 1 | -5.42 |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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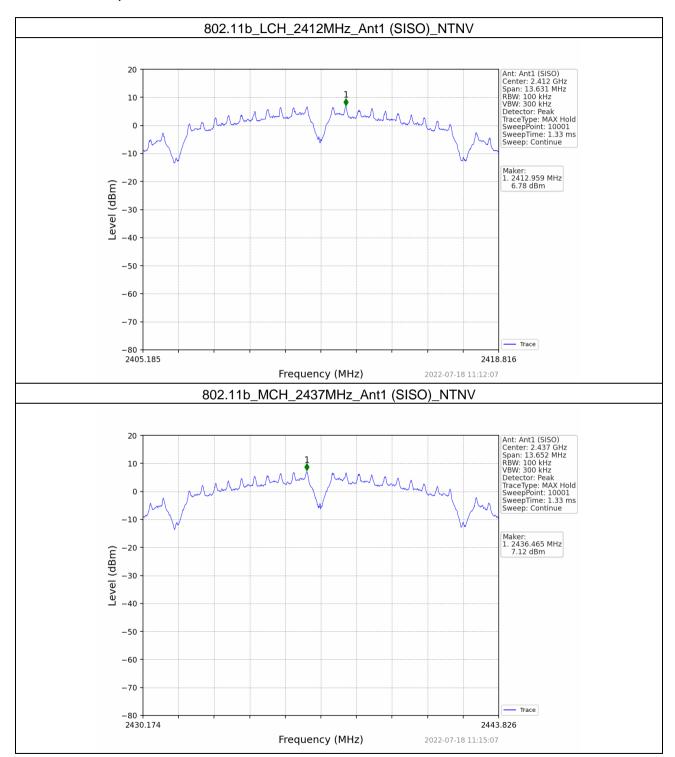
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Report No.: SHCR220700135902

Page: 83 of 96

5.1.2 Test Graph





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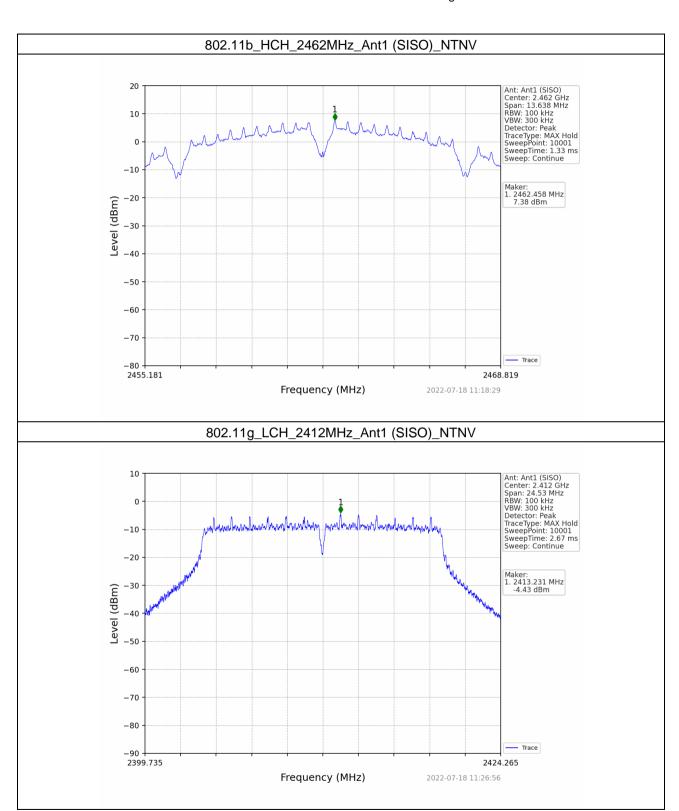
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Page: 84 of 96





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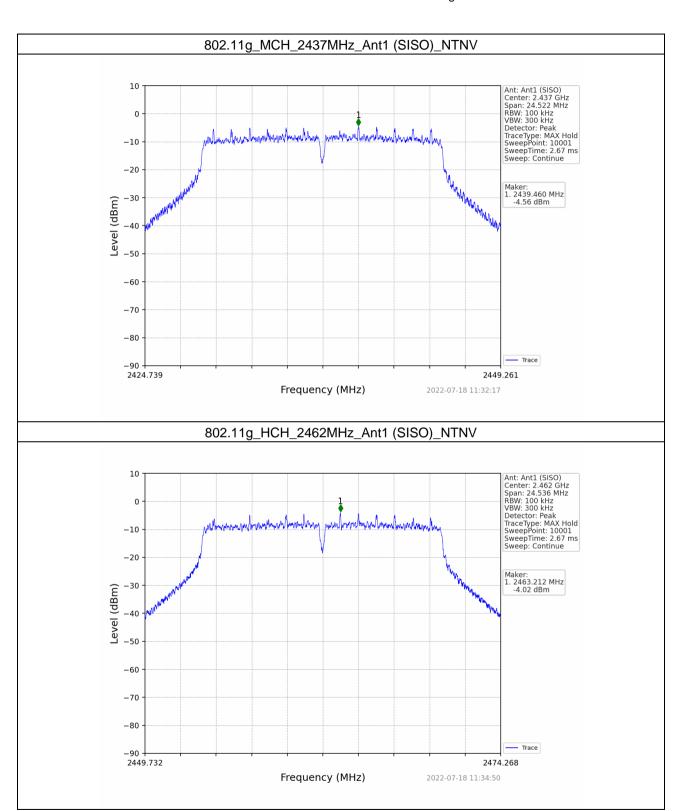
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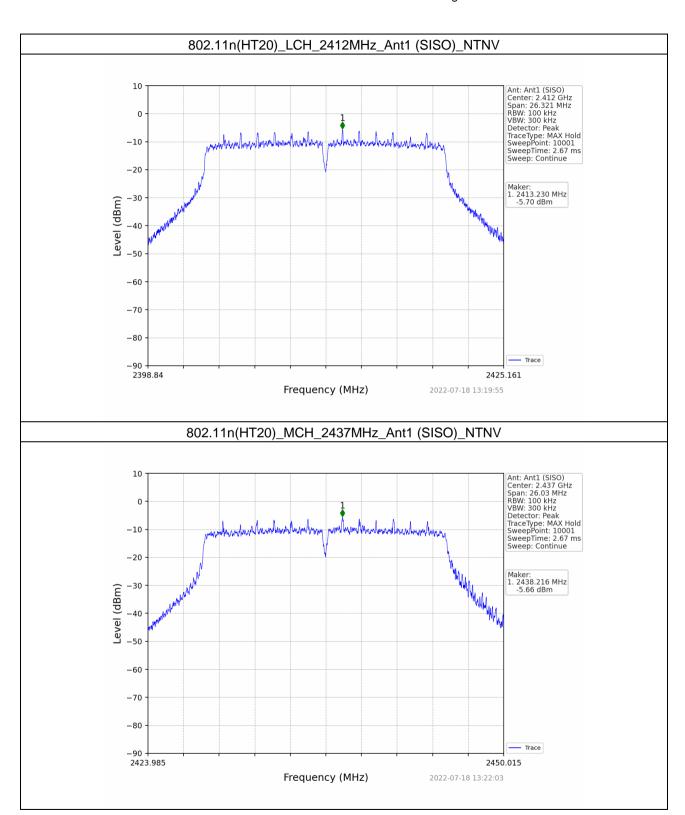
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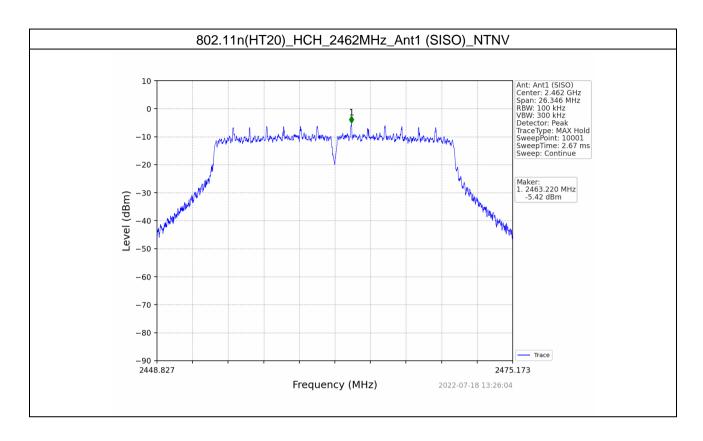
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Report No.: SHCR220700135902

Page: 88 of 96

5.2 CSE

5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------|------------|--------------------|-----|-----------------------------|----------------|---------|
| 802.11b | SISO | 2412 | 1 | 7.38 | -12.62 | Pass |
| | | 2437 | 1 | 7.38 | -12.62 | Pass |
| | | 2462 | 1 | 7.38 | -12.62 | Pass |
| 802.11g | SISO | 2412 | 1 | -4.02 | -24.02 | Pass |
| | | 2437 | 1 | -4.02 | -24.02 | Pass |
| | | 2462 | 1 | -4.02 | -24.02 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | -5.42 | -25.42 | Pass |
| | | 2437 | 1 | -5.42 | -25.42 | Pass |
| | | 2462 | 1 | -5.42 | -25.42 | Pass |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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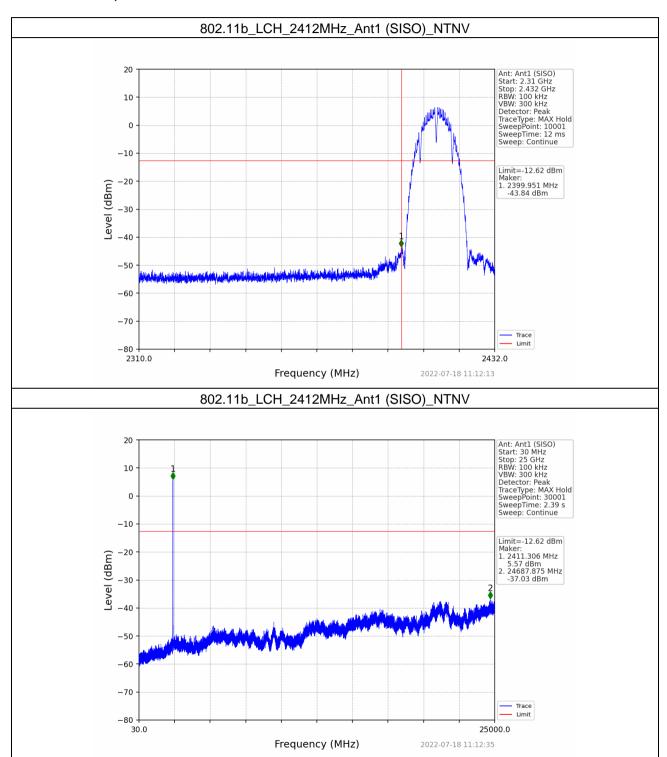
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Page: 89 of 96

5.2.2 Test Graph





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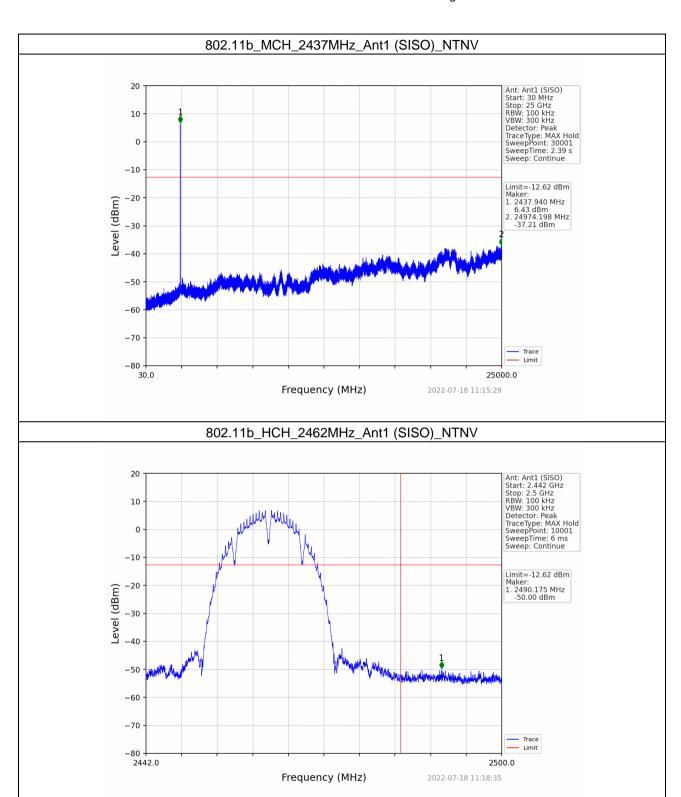
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Report No.: SHCR220700135902

Page: 90 of 96





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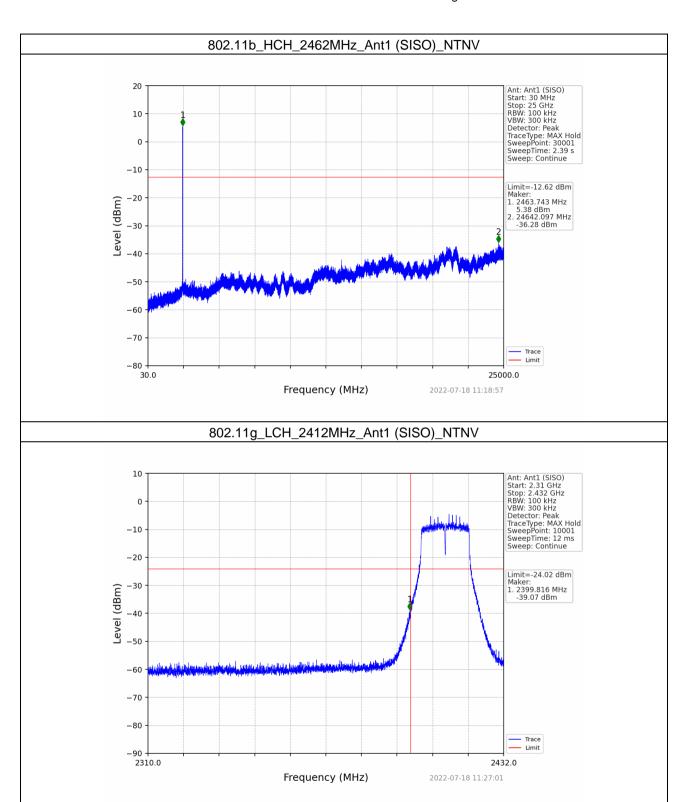
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Report No.: SHCR220700135902

Page: 91 of 96





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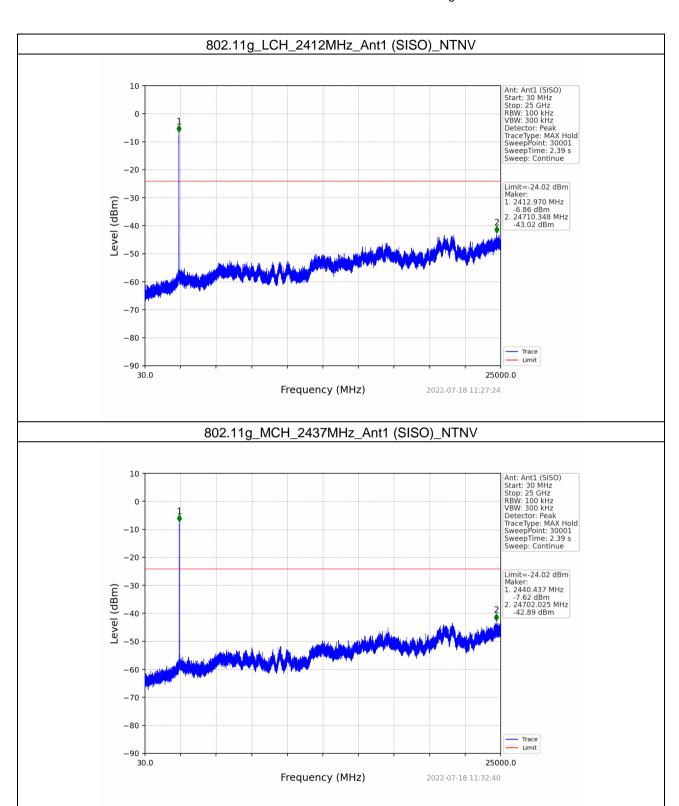
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Report No.: SHCR220700135902

Page: 92 of 96





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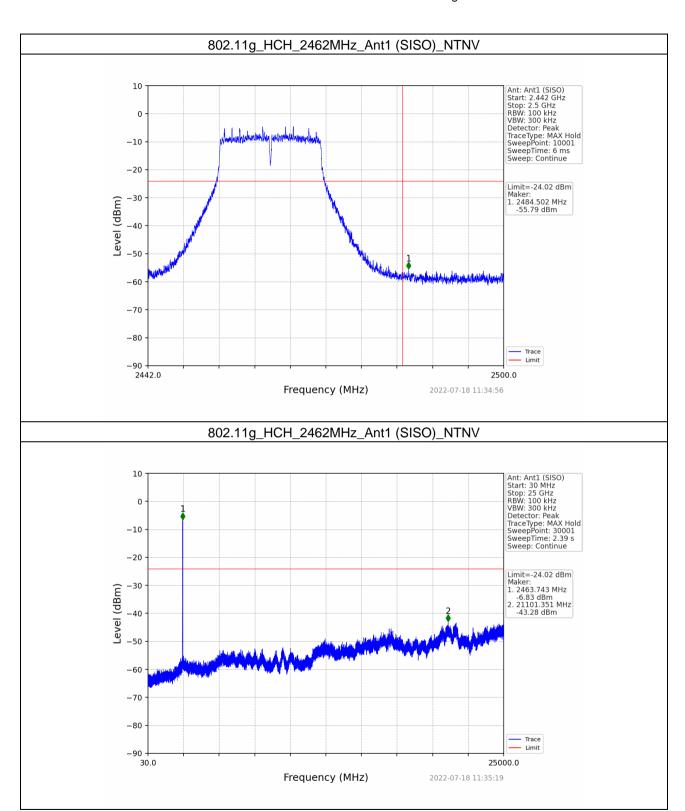
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Report No.: SHCR220700135902

Page: 93 of 96





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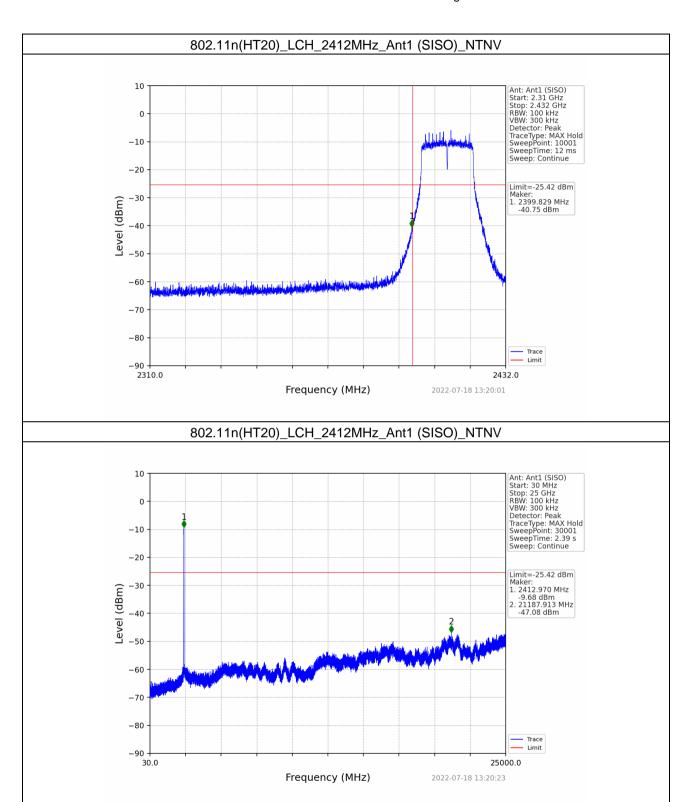
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Report No.: SHCR220700135902

Page: 94 of 96





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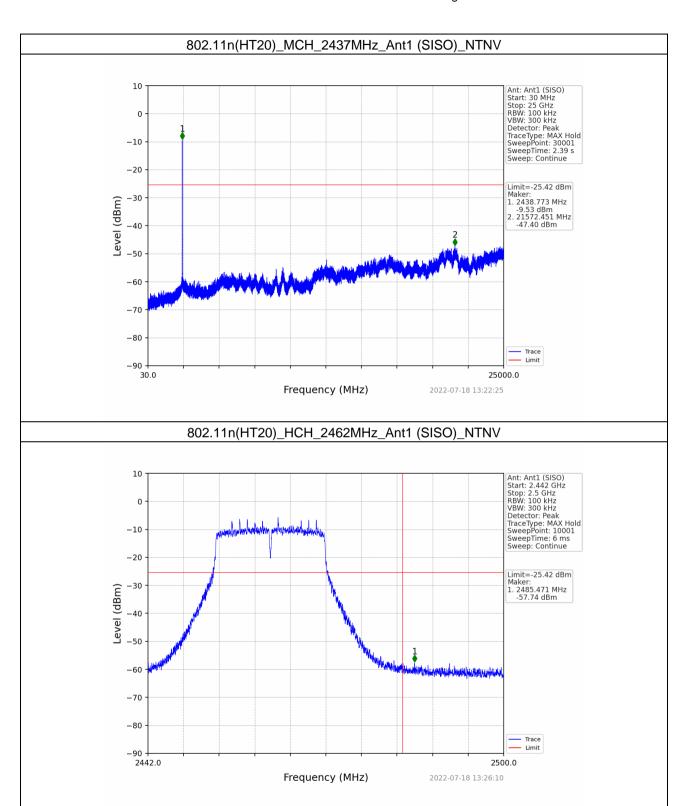
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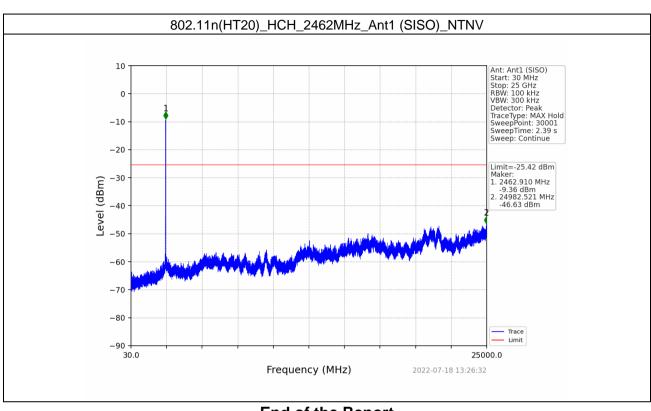
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Page: 96 of 96



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