

# TEST REPORT

**Application No.:** FYCR2606000062TL  
**Applicant:** TELTONIKA NETWORKS, UAB  
**Address of Applicant:** K. Barsausko st. 66, Kaunas LT-51436 Lithuania  
**Manufacturer:** TELTONIKA NETWORKS, UAB  
**Address of Manufacturer:** K. Baršausko st. 66, LT-51436, Kaunas, Lithuania  
**Factory:**  
 1. TELTONIKA EMS, UAB  
 2. TLT ELECTRONICS VIETNAM COMPANY LIMITED  
**Address of Factory:**  
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 2. Factory A1-2, Vinh Loc 3 Street, Vinh Loc 2 Industrial Park, National Highway 1, Voi Lá Hamlet, Mỹ Yên Commune, Tây Ninh Province, Vietnam

### Equipment Under Test (EUT):

**EUT Name:** LTE Cat 4 Router  
**Model No.:** RUT986  
**FCC ID:** 2AET4RUT986  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2026-06-08  
**Date of Test:** 2026-07-23 to 2026-07-27  
**Date of Issue:** 2026-08-17

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2026-08-17 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                              |  |  |
|--------------------------|--|------------------------------|--|--|
| Authorized for issue by: |  |                              |  |  |
|                          |  | Byron Liang                  |  |  |
|                          |  | Byron Liang/Project Engineer |  |  |
|                          |  | Tree Zhan                    |  |  |
|                          |  | Tree Zhan/Reviewer           |  |  |



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## 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 Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2020) Section 6.2              | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Radiated Emissions which fall in the restricted bands |                                  | ANSI C63.10 (2020) Section 6.10.5 & 11.12   | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Below 1GHz                |                                  | ANSI C63.10 (2020) Section 6.4,6.5          | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz                |                                  | ANSI C63.10 (2020) Section 6.6 & 11.12      | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Conducted Spurious Emissions                          |                                  | ANSI C63.10-2020+Cor.1-2023 Section 11.11   | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Conducted Band Edges Measurement                      |                                  | ANSI C63.10-2020+Cor.1-2023 Section 7.8.7.2 | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Power Spectral Density                                |                                  | ANSI C63.10-2020+Cor.1-2023 Section 11.10.3 | 47 CFR Part 15, Subpart C 15.247(e)       | Pass   |
| Minimum 6dB Bandwidth                                 |                                  | ANSI C63.10-2020+Cor.1-2023 Section 11.8.1  | 47 CFR Part 15, Subpart C 15.247a(2)      | Pass   |
| 20dB Bandwidth                                        |                                  | ANSI C63.10-2020+Cor.1-2023 Section 6.9.2   | 47 CFR Part 15, Subpart C 15.247(a)(1)    | Pass   |
| Maximum Conducted Output Power                        |                                  | ANSI C63.10-2020+Cor.1-2023 Section 11.9.1  | 47 CFR Part 15, Subpart C 15.247(b)(1)    | Pass   |



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## 4 General Information

### 4.1 Details of E.U.T.

|                                     |                                                                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Supply:                       | Model No.: ASSA107A-090100<br>Input: AC 100-240V, 50/60Hz, 0.45A<br>Output: DC 9.0V, 1.0A, 9.0W                                                                                              |
| Cable(s):                           | DC cable from Adapter 200cm unshielded;<br>LAN cable 154cm unshielded;<br>2 pcs WiFi antenna 150cm shielded;<br>2 pcs Mobile antenna 19cm unshielded.<br>1 pcs GPS antenna 300cm unshielded; |
| For 2.4G WIFI:                      |                                                                                                                                                                                              |
| Operation Frequency:                | 802.11b/g/n(HT20): 2412MHz to 2462MHz,<br>802.11n(HT40): 2422MHz to 2452MHz                                                                                                                  |
| Modulation Type:                    | 802.11b: DSSS (DBPSK, DQPSK, CCK),<br>802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM),                                                                                                            |
| Channel Spacing:                    | 5MHz                                                                                                                                                                                         |
| Number of Channels:                 | 802.11b/g/n(HT20): 11<br>802.11n(HT40): 7                                                                                                                                                    |
| Antenna Type:                       | RP-SMA Dipole Antenna                                                                                                                                                                        |
| Antenna Gain:                       | ANT 1&2: 3dBi                                                                                                                                                                                |
| Cable Loss (for RF conducted test): | 0.8dB                                                                                                                                                                                        |

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### 4.2 Description of Support Units

| Description                                     | Manufacturer | Model No. | Serial No. |
|-------------------------------------------------|--------------|-----------|------------|
| --                                              | --           | --        | --         |
| The EUT has been tested as an independent unit. |              |           |            |



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### 4.3 Measurement Uncertainty

| Test Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Measurement Uncertainty                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\pm 3.2\text{dB}$                                          |
| Radiated Emissions which fall in the restricted bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\pm 4.7\text{dB}$                                          |
| Radiated Spurious Emissions Below 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\pm 5.7\text{dB}$                                          |
| Radiated Spurious Emissions Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (18-40GHz) |
| Conducted Spurious Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\pm 2.7\text{dB}$                                          |
| Conducted Band Edges Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\pm 2.7\text{dB}$                                          |
| Power Spectral Density                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.4G: $\pm 0.35\text{dB}$ ; 5G: $\pm 0.38\text{dB}$         |
| Minimum 6dB Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.4G: $\pm 0.34\%$ ; 5G: $\pm 0.27\%$                       |
| 20dB Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4G: $\pm 0.34\%$ ; 5G: $\pm 0.27\%$                       |
| Maximum Conducted Output Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4G: $\pm 0.80\text{dB}$ ; 5G: $\pm 0.43\text{dB}$         |
| <p>Remark:</p> <p>The <math>U_{\text{lab}}</math> (lab Uncertainty) is less than <math>U_{\text{CISPR/ETSI}}</math> (CISPR/ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> <li>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;</li> <li>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.</li> <li>– the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of <math>k=2</math>.</li> </ul> |                                                             |



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All tests were performed at:

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Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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## 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                 |                 |               |            |              |
|-----------------------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                                           | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Shielding Room                                      | CRT             | N/A             | SEM001-14     | 2025/10/13 | 2028/10/12   |
| EMI Test Receiver                                   | Rohde & Schwarz | ESCI            | SEM004-01     | 2026/2/5   | 2027/2/4     |
| Two-Line V-Network                                  | Rohde & Schwarz | ENV216          | SEM007-24     | 2026/2/5   | 2027/2/4     |
| Two-Line V-Network                                  | Rohde & Schwarz | ESH3-Z5         | SEM007-22     | 2026/2/5   | 2027/2/4     |
| Coaxial Cable                                       | CCS             | N/A             | SEM033-02     | 2026/5/12  | 2027/5/11    |
| Measurement Software                                | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |

| Radiated Emissions which fall in the restricted bands |                 |                 |               |            |              |
|-------------------------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                                             | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Anechoic Chamber                                   | CRT             | N/A             | SEM001-13     | 2025/10/13 | 2028/10/12   |
| Broad-Band Horn Antenna                               | Schwarzbeck     | BBHA 9120D      | SEM003-54     | 2025/5/24  | 2027/5/23    |
| MXA Signal Analyzer                                   | KEYSIGHT        | N9020A          | SEM004-23     | 2026/2/5   | 2027/2/4     |
| Coaxial Cable                                         | CCS             | N/A             | SEM035-02     | 2026/5/12  | 2027/5/11    |
| Pre-amplifier                                         | TST PASS        | LNA04080G30     | SEM005-27     | 2026/2/5   | 2027/2/4     |
| Pre-amplifier                                         | TST PASS        | LNA10180G45     | SEM005-28     | 2026/2/5   | 2027/2/4     |
| Signal Analyzer                                       | Rohde & Schwarz | FSU43           | SEM004-08     | 2026/3/4   | 2027/3/3     |
| Measurement Software                                  | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |

| Radiated Spurious Emissions Below 1GHz |              |                 |               |            |              |
|----------------------------------------|--------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Anechoic Chamber                    | CRT          | N/A             | SEM001-13     | 2025/10/13 | 2028/10/12   |
| Trilog-Broadband Antenna               | Schwarzbeck  | VULB9168        | SEM003-26     | 2025/8/29  | 2027/08/28   |
| Loop Antenna                           | ETS-LINDGREN | 6502            | SEM003-43     | 2025/6/16  | 2027/6/15    |
| MXE EMI receiver                       | Agilent      | N9038A          | SEM004-05     | 2026/7/03  | 2027/7/02    |
| Pre-amplifier                          | HP           | 8447D           | SEM005-02     | 2026/7/07  | 2027/7/06    |
| Coaxial Cable                          | CCS          | N/A             | SEM035-01     | 2026/5/12  | 2027/5/11    |
| Measurement Software                   | AUDIX        | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |



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| Radiated Spurious Emissions Above 1GHz |                 |                 |               |            |              |
|----------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Anechoic Chamber                    | CRT             | N/A             | SEM001-13     | 2025/10/13 | 2028/10/12   |
| Broad-Band Horn Antenna                | Schwarzbeck     | BBHA 9170       | SEM003-15     | 2025/7/29  | 2027/7/28    |
| Broad-Band Horn Antenna                | Schwarzbeck     | BBHA 9120D      | SEM003-54     | 2025/5/24  | 2027/5/23    |
| Pre-amplifier                          | TST PASS        | LNA180400G40    | SEM005-39     | 2026/4/29  | 2027/4/28    |
| Pre-amplifier                          | TST PASS        | LNA10180G60     | SEM005-32     | 2026/4/4   | 2027/4/3     |
| Coaxial Cable                          | CCS             | N/A             | SEM035-02     | 2026/5/12  | 2027/5/11    |
| Coaxial Cable                          | CCS             | N/A             | SEM035-03     | 2026/5/12  | 2027/5/11    |
| Pre-amplifier                          | TST PASS        | LNA04080G30     | SEM005-27     | 2026/2/5   | 2027/2/4     |
| Pre-amplifier                          | TST PASS        | LNA10180G45     | SEM005-28     | 2026/2/5   | 2027/2/4     |
| Signal Analyzer                        | Rohde & Schwarz | FSU43           | SEM004-08     | 2026/3/4   | 2027/3/3     |
| Measurement Software                   | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |

| RF Conducted Test                           |                              |               |               |           |              |
|---------------------------------------------|------------------------------|---------------|---------------|-----------|--------------|
| Equipment                                   | Manufacturer                 | Model No.     | Inventory No. | Cal Date  | Cal Due Date |
| MXA Signal Analyzer                         | KEYSIGHT                     | N9020A        | SEM004-25     | 2026/2/3  | 2027/2/2     |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2026/2/2  | 2027/2/1     |
| Coaxial Cable                               | CCS                          | N/A           | SEM037-01     | 2026/5/12 | 2027/5/11    |
| Measurement Software                        | TST PASS                     | TST PASS V2.0 | N/A           | N/A       | N/A          |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2026/2/3  | 2027/2/2     |
| Power Sensor                                | Erika Fiedler                | U2021XA       | SEM009-16     | 2026/2/4  | 2027/2/3     |
| Programmable DC Source                      | Chroma                       | 62024P-80-60  | SEM011-09     | 2026/2/5  | 2027/2/4     |
| MXA Signal Analyzer                         | KEYSIGHT                     | N9020B        | SEM004-24     | 2026/2/3  | 2027/2/2     |



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| General used equipment          |              |           |               |           |              |
|---------------------------------|--------------|-----------|---------------|-----------|--------------|
| Equipment                       | Manufacturer | Model No. | Inventory No. | Cal Date  | Cal Due Date |
| Humidity/ Temperature Indicator | deli         | 8838      | SEM002-52     | 2026/7/8  | 2027/7/7     |
| Humidity/ Temperature Indicator | deli         | 8838      | SEM002-53     | 2026/7/8  | 2027/7/7     |
| Barometer                       | DUMAI        | DYM3      | SEM002-24     | 2026/7/10 | 2027/7/9     |



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## 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:

Measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

EUT Antenna:

The antenna is a detachable antenna with RP-SMA connector. The best case gain of the antenna: ANT1&2: 3dBi.

Directional gain =  $G_{ANT} + \text{Array Gain}$

For power spectral density (PSD):

Array Gain =  $10 \log(N_{ANT}/N_{SS}) \text{ dB} = 10 \log 2 = 3 \text{ dB}$ ; Directional gain =  $3 + 3 = 6 \text{ dBi}$

For power:

Array Gain = 0 dB for  $N_{ANT} \leq 4$ ; Directional gain = 3 dBi

Antenna location: Refer to external photos.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207  
 Test Method: ANSI C63.10 (2020) Section 6.2  
 Test Engineer: Fly Yan

Limit:

| Frequency of emission(MHz)                                             | Conducted limit(dBμV) |           |
|------------------------------------------------------------------------|-----------------------|-----------|
|                                                                        | Quasi-peak            | Average   |
| 0.15-0.5                                                               | 66 to 56*             | 56 to 46* |
| 0.5-5                                                                  | 56                    | 46        |
| 5-30                                                                   | 60                    | 50        |
| *Decreases with the logarithm of the frequency.                        |                       |           |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |                       |           |

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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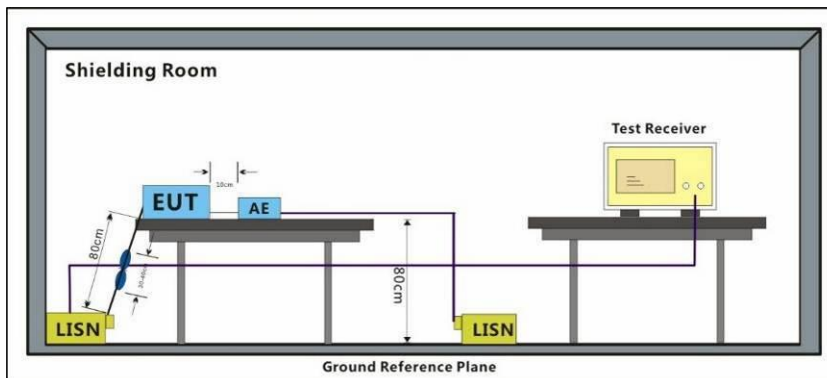
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### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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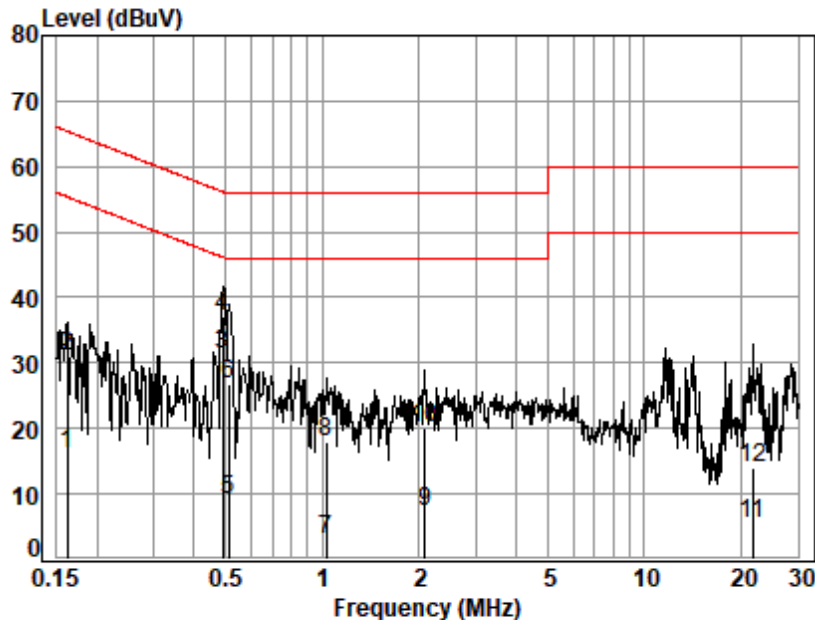
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Test Mode: 00; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 00062TL/00063TL  
Test mode: 00

|    | Freq    | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark  |
|----|---------|------------|-------------|------------|-------------|------------|------------|---------|
|    | MHz     | dB         | dB          | dBuV       | dBuV        | dBuV       | dB         |         |
| 1  | 0.1615  | 0.02       | 9.79        | 6.41       | 16.22       | 55.38      | -39.16     | Average |
| 2  | 0.1615  | 0.02       | 9.79        | 21.28      | 31.09       | 65.38      | -34.29     | QP      |
| 3  | 0.4915  | 0.06       | 9.81        | 21.40      | 31.27       | 46.14      | -14.87     | Average |
| 4  | 0.4915  | 0.06       | 9.81        | 27.28      | 37.15       | 56.14      | -18.99     | QP      |
| 5  | 0.5128  | 0.06       | 9.82        | -0.85      | 9.03        | 46.00      | -36.97     | Average |
| 6  | 0.5128  | 0.06       | 9.82        | 16.85      | 26.73       | 56.00      | -29.27     | QP      |
| 7  | 1.0265  | 0.04       | 9.75        | -6.83      | 2.96        | 46.00      | -43.04     | Average |
| 8  | 1.0265  | 0.04       | 9.75        | 8.12       | 17.91       | 56.00      | -38.09     | QP      |
| 9  | 2.0768  | 0.04       | 9.82        | -2.64      | 7.22        | 46.00      | -38.78     | Average |
| 10 | 2.0768  | 0.04       | 9.82        | 10.31      | 20.17       | 56.00      | -35.83     | QP      |
| 11 | 21.7149 | 0.06       | 9.83        | -4.50      | 5.39        | 50.00      | -44.61     | Average |
| 12 | 21.7149 | 0.06       | 9.83        | 4.25       | 14.14       | 60.00      | -45.86     | QP      |



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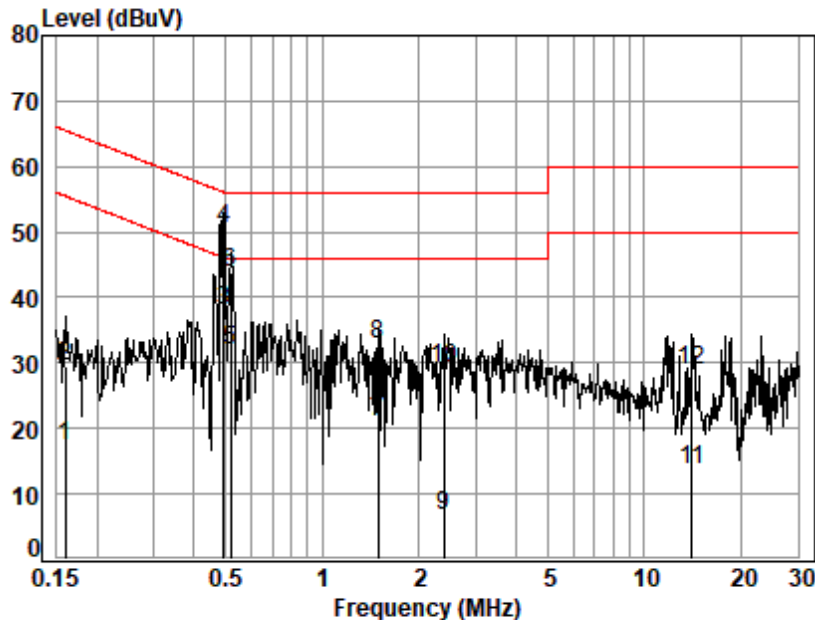
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Test Mode: 00; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 00062TL/00063TL  
Test mode: 00

|    | Freq    | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark  |
|----|---------|------------|-------------|------------|-------------|------------|------------|---------|
|    | MHz     | dB         | dB          | dBuV       | dBuV        | dBuV       | dB         |         |
| 1  | 0.1590  | 0.02       | 9.72        | 7.54       | 17.28       | 55.52      | -38.24     | Average |
| 2  | 0.1590  | 0.02       | 9.72        | 19.63      | 29.37       | 65.52      | -36.15     | QP      |
| 3  | 0.4941  | 0.06       | 9.73        | 28.17      | 37.96       | 46.10      | -8.14      | Average |
| 4  | 0.4941  | 0.06       | 9.73        | 40.60      | 50.39       | 56.10      | -5.71      | QP      |
| 5  | 0.5210  | 0.06       | 9.73        | 22.29      | 32.08       | 46.00      | -13.92     | Average |
| 6  | 0.5210  | 0.06       | 9.73        | 34.08      | 43.87       | 56.00      | -12.13     | QP      |
| 7  | 1.4874  | 0.04       | 9.77        | 11.21      | 21.02       | 46.00      | -24.98     | Average |
| 8  | 1.4874  | 0.04       | 9.77        | 22.99      | 32.80       | 56.00      | -23.20     | QP      |
| 9  | 2.3836  | 0.04       | 9.74        | -2.97      | 6.81        | 46.00      | -39.19     | Average |
| 10 | 2.3836  | 0.04       | 9.74        | 19.31      | 29.09       | 56.00      | -26.91     | QP      |
| 11 | 14.0629 | 0.05       | 9.93        | 3.75       | 13.73       | 50.00      | -36.27     | Average |
| 12 | 14.0629 | 0.05       | 9.93        | 19.01      | 28.99       | 60.00      | -31.01     | QP      |



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## 7.2 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 (2020) Section 6.10.5 & 11.12  
 Measurement Distance: 3m  
 Test Engineer: Rex Liu

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.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 50.1 % RH Atmospheric Pressure: 1000 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

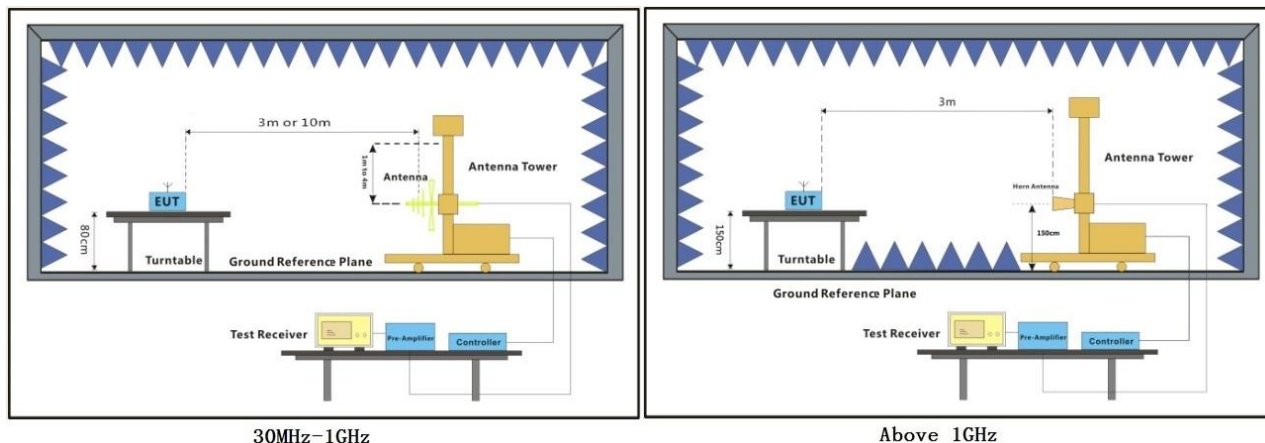


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### 7.2.3 Test Setup Diagram



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### 7.2.4 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.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for 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.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle<98%) or 10Hz (Duty cycle $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



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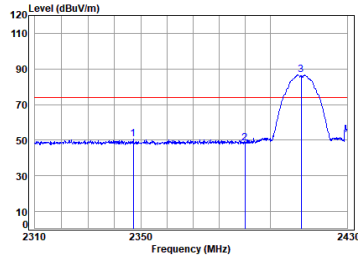
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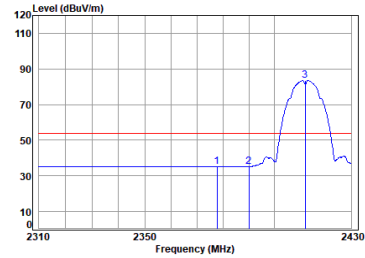
11b\_TX\_CH\_01\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11b

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|--------|------------|--------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |        | dB         |
| 1 | 2347.146 | 4.87       | 27.19      | 32.98         | 51.37      | 50.45  | 74.00  | -23.55     | Peak   | 0.00       |
| 2 | 2390.000 | 4.86       | 27.12      | 32.96         | 49.20      | 48.22  | 74.00  | -25.78     | Peak   | 0.00       |
| 3 | 2412.000 | 4.85       | 27.20      | 32.95         | 87.39      | 86.49  | 74.00  | 12.49      | Peak   | 0.00       |

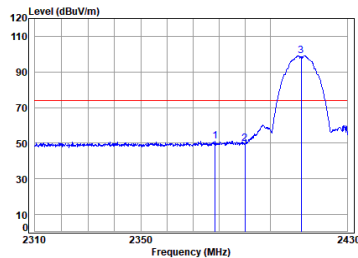
11b\_TX\_CH\_01\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11b

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1 | 2377.775 | 4.86       | 27.14      | 32.97         | 36.27      | 35.30  | 54.00  | -18.70     | Average | 0.00       |
| 2 | 2390.000 | 4.86       | 27.12      | 32.96         | 36.27      | 35.29  | 54.00  | -18.71     | Average | 0.00       |
| 3 | 2412.000 | 4.85       | 27.20      | 32.95         | 84.28      | 83.38  | 54.00  | 29.38      | Average | 0.00       |

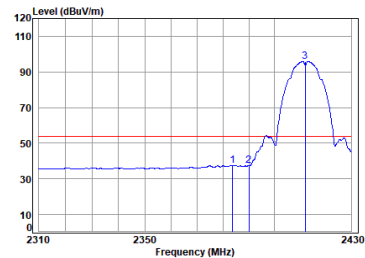
11b\_TX\_CH\_01\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11b

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|--------|------------|--------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |        | dB         |
| 1 | 2378.497 | 4.86       | 27.14      | 32.97         | 52.23      | 51.26  | 74.00  | -22.74     | Peak   | 0.00       |
| 2 | 2390.000 | 4.86       | 27.12      | 32.96         | 50.75      | 49.77  | 74.00  | -24.23     | Peak   | 0.00       |
| 3 | 2412.000 | 4.85       | 27.20      | 32.95         | 99.88      | 98.98  | 74.00  | 24.98      | Peak   | 0.00       |

11b\_TX\_CH\_01\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11b

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1 | 2383.683 | 4.86       | 27.13      | 32.96         | 38.51      | 37.54  | 54.00  | -16.46     | Average | 0.00       |
| 2 | 2390.000 | 4.86       | 27.12      | 32.96         | 38.36      | 37.38  | 54.00  | -16.62     | Average | 0.00       |
| 3 | 2412.000 | 4.85       | 27.20      | 32.95         | 96.69      | 95.79  | 54.00  | 41.79      | Average | 0.00       |



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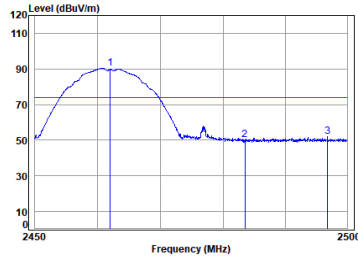
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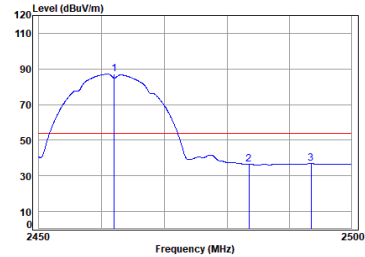
11b\_TX\_CH\_11\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 2462.000 | 4.85       | 27.57      | 32.92         | 98.80      | 90.30  | 74.00      | 16.30      | Peak   | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 50.76      | 50.39  | 74.00      | -23.61     | Peak   | 0.00       |
| 3 2496.520    | 4.84       | 27.78      | 32.90         | 52.50      | 52.22  | 74.00      | -21.78     | Peak   | 0.00       |

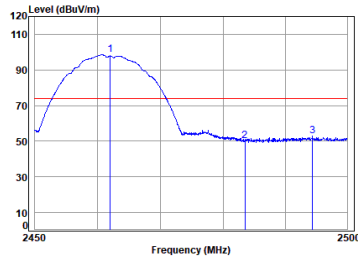
11b\_TX\_CH\_11\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 pp 2462.000 | 4.85       | 27.57      | 32.92         | 87.56      | 87.06  | 54.00      | 33.06      | Average | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 36.67      | 36.30  | 54.00      | -17.70     | Average | 0.00       |
| 3 2493.543    | 4.84       | 27.76      | 32.90         | 37.14      | 36.84  | 54.00      | -17.16     | Average | 0.00       |

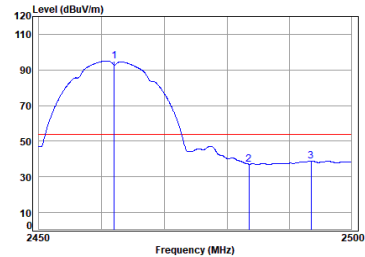
11b\_TX\_CH\_11\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 2462.000 | 4.85       | 27.57      | 32.92         | 98.91      | 98.41  | 74.00      | 24.41      | Peak   | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 50.20      | 50.20  | 74.00      | -23.80     | Peak   | 0.00       |
| 3 2494.400    | 4.84       | 27.77      | 32.90         | 53.09      | 52.80  | 74.00      | -21.20     | Peak   | 0.00       |

11b\_TX\_CH\_11\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 pp 2462.000 | 4.85       | 27.57      | 32.92         | 95.56      | 95.06  | 54.00      | 41.06      | Average | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 37.54      | 37.17  | 54.00      | -16.83     | Average | 0.00       |
| 3 2493.543    | 4.84       | 27.76      | 32.90         | 39.28      | 38.98  | 54.00      | -15.02     | Average | 0.00       |



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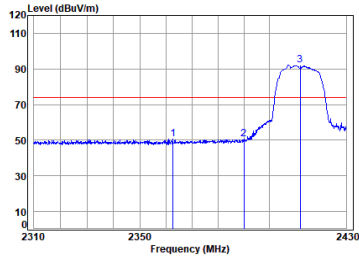
## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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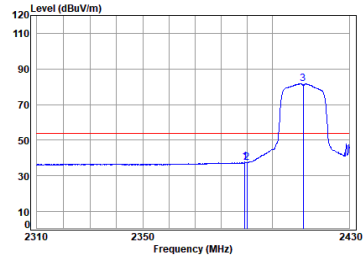
11g\_TX\_CH\_01\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11g

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|--------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |        | dB         |
| 1    | 2362.650 | 4.86       | 27.17      | 32.98         | 51.64      | 50.69  | 74.00  | -23.31     | Peak   | 0.00       |
| 2    | 2398.000 | 4.86       | 27.12      | 32.96         | 51.60      | 50.62  | 74.00  | -23.38     | Peak   | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 93.00      | 92.18  | 74.00  | 18.18      | Peak   | 0.00       |

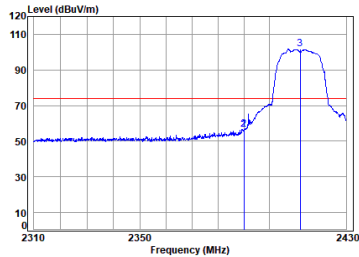
11g\_TX\_CH\_01\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11g

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1    | 2389.242 | 4.86       | 27.12      | 32.96         | 38.79      | 37.81  | 54.00  | -16.19     | Average | 0.00       |
| 2    | 2398.000 | 4.86       | 27.12      | 32.96         | 38.42      | 37.44  | 54.00  | -16.56     | Average | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 82.60      | 81.79  | 54.00  | 27.79      | Average | 0.00       |

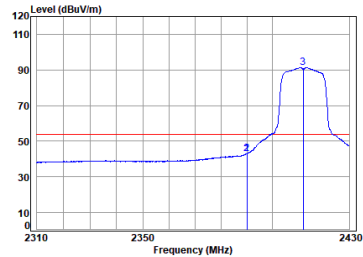
11g\_TX\_CH\_01\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11g

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|--------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |        | dB         |
| 1    | 2389.968 | 4.86       | 27.12      | 32.96         | 57.68      | 56.70  | 74.00  | -17.30     | Peak   | 0.00       |
| 2    | 2398.000 | 4.86       | 27.12      | 32.96         | 57.60      | 56.70  | 74.00  | -17.30     | Peak   | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 102.60     | 101.70 | 74.00  | 27.70      | Peak   | 0.00       |

11g\_TX\_CH\_01\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11g

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1    | 2389.968 | 4.86       | 27.12      | 32.96         | 43.86      | 42.88  | 54.00  | -11.12     | Average | 0.00       |
| 2    | 2398.000 | 4.86       | 27.12      | 32.96         | 43.86      | 42.88  | 54.00  | -11.12     | Average | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 92.32      | 91.42  | 54.00  | 37.42      | Average | 0.00       |



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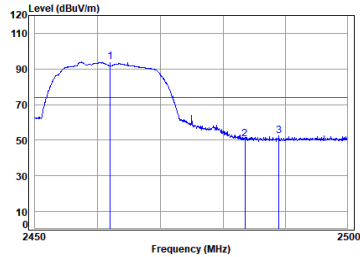
## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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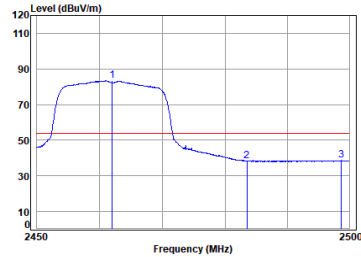
11g\_TX\_CH\_11\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11g

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over        | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|-------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV/m | dBuV/m | Limit       | Factor |
|               | dB    |        |        | dB    |        |        | dB          |        |
| 1 pp 2462.000 | 4.85  | 27.57  | 32.92  | 94.27 | 93.77  | 74.00  | 19.77 Peak  | 0.00   |
| 2 2483.508    | 4.84  | 27.70  | 32.91  | 58.85 | 58.48  | 74.00  | -23.52 Peak | 0.00   |
| 3 2498.963    | 4.84  | 27.73  | 32.91  | 52.84 | 52.50  | 74.00  | -21.50 Peak | 0.00   |

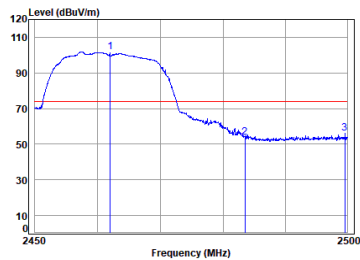
11g\_TX\_CH\_11\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11g

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over           | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|----------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV/m | dBuV/m | Limit          | Factor |
|               | dB    |        |        | dB    |        |        | dB             |        |
| 1 pp 2462.000 | 4.85  | 27.57  | 32.92  | 83.83 | 83.33  | 54.00  | 29.33 Average  | 0.00   |
| 2 2483.508    | 4.84  | 27.70  | 32.91  | 38.76 | 38.39  | 54.00  | -15.61 Average | 0.00   |
| 3 2498.730    | 4.84  | 27.79  | 32.90  | 38.90 | 38.63  | 54.00  | -15.37 Average | 0.00   |

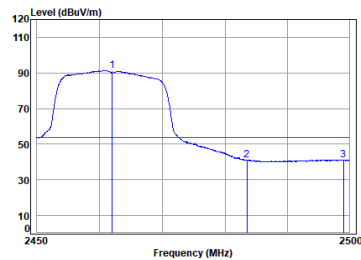
11g\_TX\_CH\_11\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11g

| Freq          | Cable | Ant    | Preamp | Read   | Level  | Limit  | Over        | Aux    |
|---------------|-------|--------|--------|--------|--------|--------|-------------|--------|
| MHz           | Loss  | Factor | Factor | Level  | dBuV/m | dBuV/m | Limit       | Factor |
|               | dB    |        |        | dB     |        |        | dB          |        |
| 1 pp 2462.000 | 4.85  | 27.57  | 32.92  | 102.38 | 101.88 | 74.00  | 27.88 Peak  | 0.00   |
| 2 2483.508    | 4.84  | 27.70  | 32.91  | 54.07  | 53.70  | 74.00  | -20.30 Peak | 0.00   |
| 3 2499.646    | 4.84  | 27.80  | 32.90  | 56.17  | 55.91  | 74.00  | -18.09 Peak | 0.00   |

11g\_TX\_CH\_11\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 Band edge  
: 2.4G Wi-Fi 11g

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over           | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|----------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV/m | dBuV/m | Limit          | Factor |
|               | dB    |        |        | dB    |        |        | dB             |        |
| 1 pp 2462.000 | 4.85  | 27.57  | 32.92  | 91.95 | 91.45  | 54.00  | 37.45 Average  | 0.00   |
| 2 2483.508    | 4.84  | 27.70  | 32.91  | 41.43 | 41.06  | 54.00  | -12.94 Average | 0.00   |
| 3 2499.091    | 4.84  | 27.79  | 32.90  | 41.54 | 41.27  | 54.00  | -12.73 Average | 0.00   |



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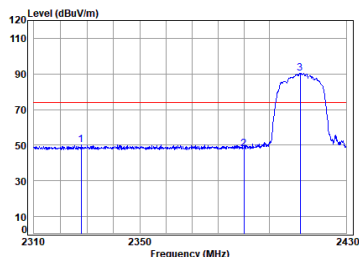
## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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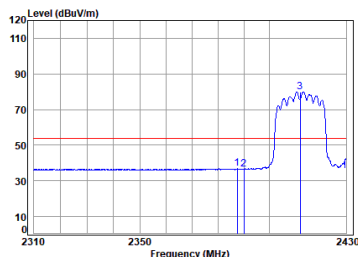
11n\_HT(20M)\_TX\_CH\_01\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11n20

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1    | 2327.733 | 4.87       | 27.16      | 33.00         | 51.29      | 50.32  | 74.00      | -23.68     | Peak   | 0.00       |
| 2    | 2390.000 | 4.86       | 27.12      | 32.96         | 49.00      | 48.02  | 74.00      | -25.98     | Peak   | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 91.35      | 90.45  | 74.00      | 16.45      | Peak   | 0.00       |

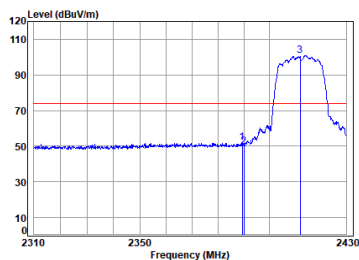
11n\_HT(20M)\_TX\_CH\_01\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11n20

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1    | 2387.428 | 4.86       | 27.12      | 32.96         | 37.81      | 36.83  | 54.00      | -17.17     | Average | 0.00       |
| 2    | 2390.000 | 4.86       | 27.12      | 32.96         | 37.53      | 36.55  | 54.00      | -17.45     | Average | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 80.92      | 80.02  | 54.00      | 26.02      | Average | 0.00       |

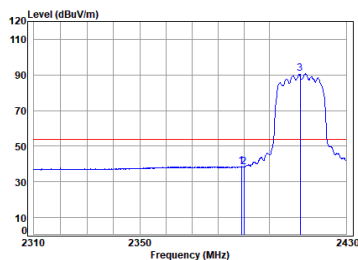
11n\_HT(20M)\_TX\_CH\_01\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11n20

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1    | 2389.363 | 4.86       | 27.12      | 32.96         | 53.04      | 52.06  | 74.00      | -21.94     | Peak   | 0.00       |
| 2    | 2390.000 | 4.86       | 27.12      | 32.96         | 50.88      | 49.90  | 74.00      | -24.10     | Peak   | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 101.86     | 100.96 | 74.00      | 26.96      | Peak   | 0.00       |

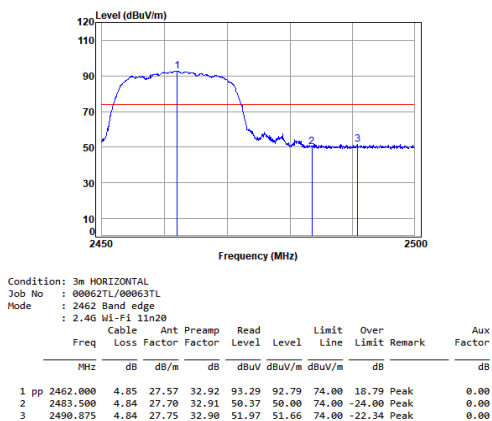
11n\_HT(20M)\_TX\_CH\_01\_Vertical-Avg



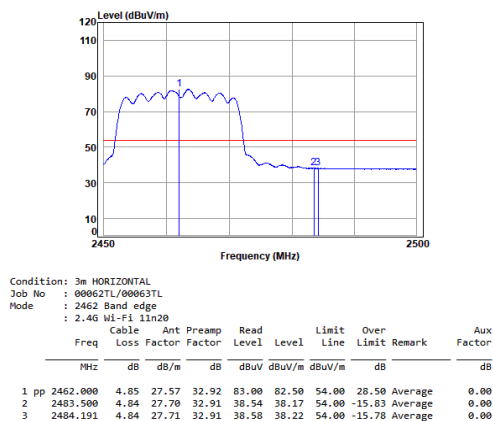
Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 Band edge  
: 2.4G Wi-Fi 11n20

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1    | 2389.000 | 4.86       | 27.12      | 32.96         | 39.60      | 38.62  | 54.00      | -15.38     | Average | 0.00       |
| 2    | 2390.000 | 4.86       | 27.12      | 32.96         | 39.32      | 38.34  | 54.00      | -15.66     | Average | 0.00       |
| 3 pp | 2412.000 | 4.85       | 27.20      | 32.95         | 91.48      | 90.58  | 54.00      | 36.58      | Average | 0.00       |

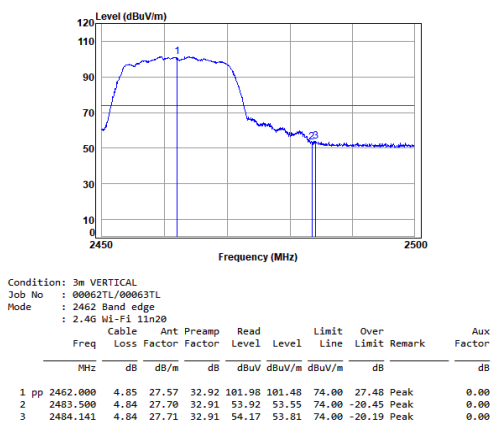
11n\_HT(20M)\_TX\_CH\_11\_Horizontal-Peak



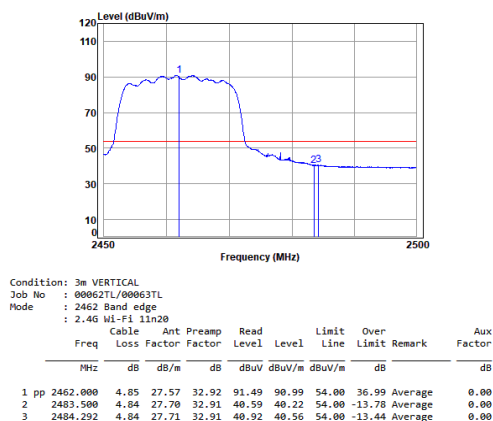
11n\_HT(20M)\_TX\_CH\_11\_Horizontal-Avg



11n\_HT(20M)\_TX\_CH\_11\_Vertical-Peak



11n\_HT(20M)\_TX\_CH\_11\_Vertical-Avg



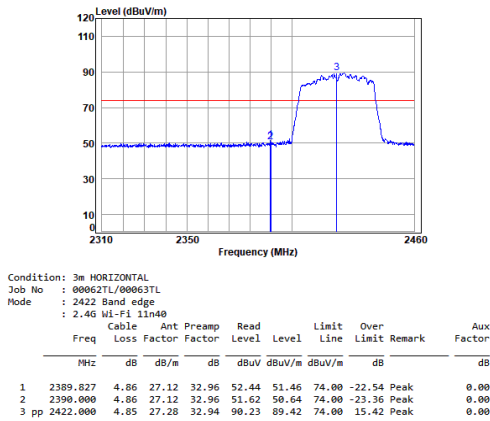
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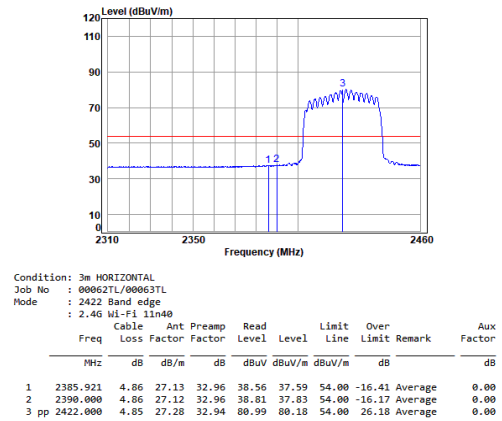
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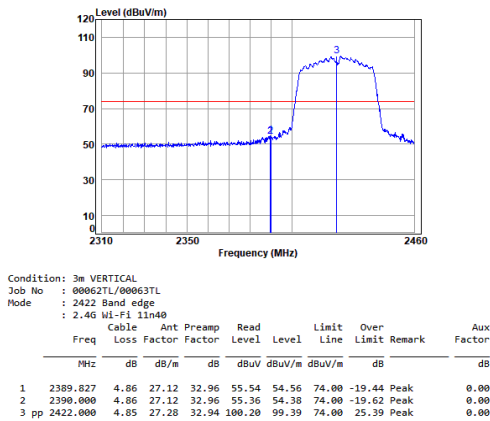
11n\_HT(40M)\_TX\_CH\_03\_Horizontal-Peak



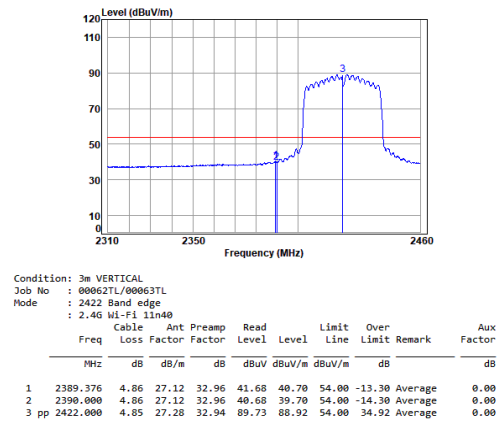
11n\_HT(40M)\_TX\_CH\_03\_Horizontal-Avg



11n\_HT(40M)\_TX\_CH\_03\_Vertical-Peak



11n\_HT(40M)\_TX\_CH\_03\_Vertical-Avg



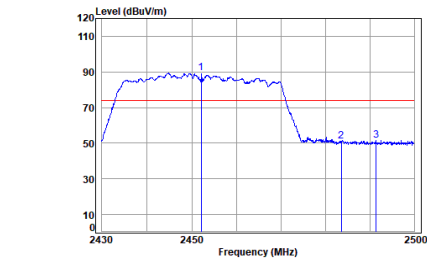
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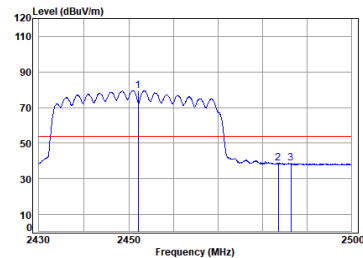
11n\_HT(40M)\_TX\_CH\_09\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2452 Band edge  
: 2.4G Wi-Fi 11n40

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 2452.000 | 4.85       | 27.51      | 32.93         | 89.86      | 89.29  | 74.00      | 15.29      | Peak   | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 51.50      | 51.13  | 74.00      | -22.87     | Peak   | 0.00       |
| 3 2491.353    | 4.84       | 27.75      | 32.90         | 52.03      | 51.72  | 74.00      | -22.28     | Peak   | 0.00       |

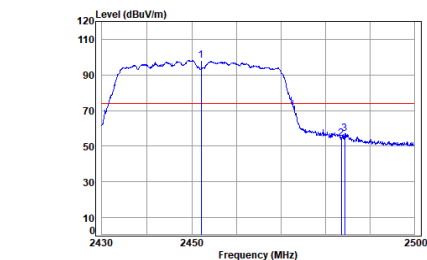
11n\_HT(40M)\_TX\_CH\_09\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2452 Band edge  
: 2.4G Wi-Fi 11n40

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 pp 2452.000 | 4.85       | 27.51      | 32.93         | 80.19      | 79.62  | 54.00      | 25.62      | Average | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 39.09      | 38.72  | 54.00      | -15.28     | Average | 0.00       |
| 3 2486.335    | 4.84       | 27.72      | 32.91         | 39.05      | 38.70  | 54.00      | -15.30     | Average | 0.00       |

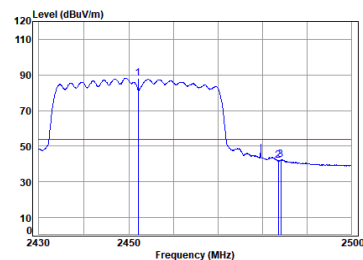
11n\_HT(40M)\_TX\_CH\_09\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2452 Band edge  
: 2.4G Wi-Fi 11n40

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 2452.000 | 4.85       | 27.51      | 32.93         | 98.82      | 98.25  | 74.00      | 24.25      | Peak   | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 54.79      | 54.42  | 74.00      | -19.58     | Peak   | 0.00       |
| 3 2484.288    | 4.84       | 27.71      | 32.91         | 57.53      | 57.17  | 74.00      | -16.83     | Peak   | 0.00       |

11n\_HT(40M)\_TX\_CH\_09\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2452 Band edge  
: 2.4G Wi-Fi 11n40

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 pp 2452.000 | 4.85       | 27.51      | 32.93         | 88.77      | 88.20  | 54.00      | 34.20      | Average | 0.00       |
| 2 2483.500    | 4.84       | 27.70      | 32.91         | 42.18      | 41.81  | 54.00      | -12.19     | Average | 0.00       |
| 3 2484.076    | 4.84       | 27.71      | 32.91         | 42.73      | 42.37  | 54.00      | -11.63     | Average | 0.00       |

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### 7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5  
 Measurement Distance: 3m  
 Test Engineer: Rex Liu

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                            |

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is  $40\log(3/300) = -80\text{dB}$  (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is  $20\log(10/3) = 10.46\text{dB}$  (for 10m test distance).

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 51.4 % RH Atmospheric Pressure: 1000 mbar



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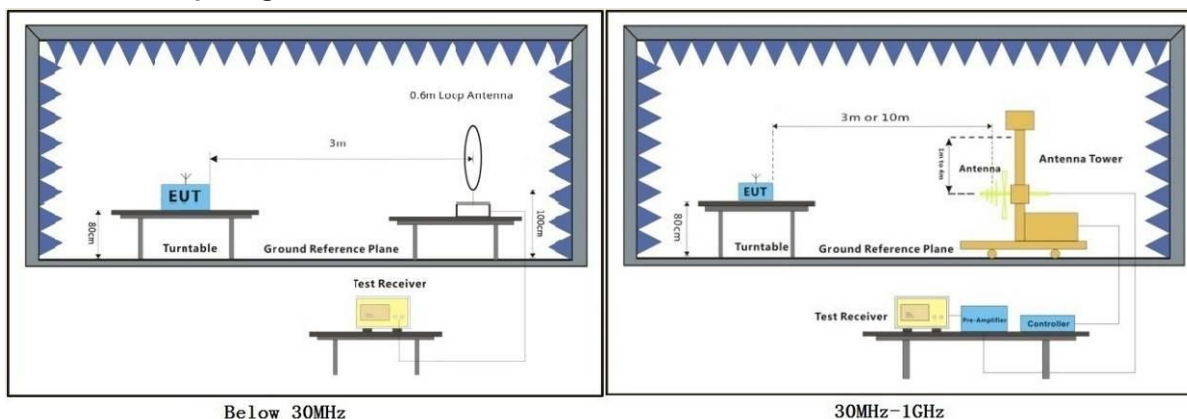
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### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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



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### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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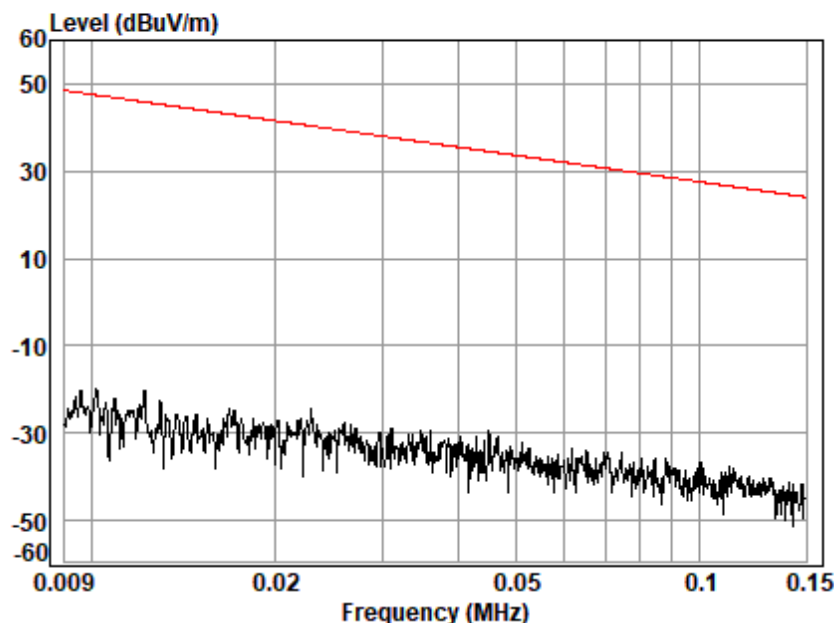
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Test Mode: 00; Polarity: Coaxial



Site : chamber  
Condition: 3m  
Job No. : 00062TL  
Test Mode: 00  
Polarity : coaxial



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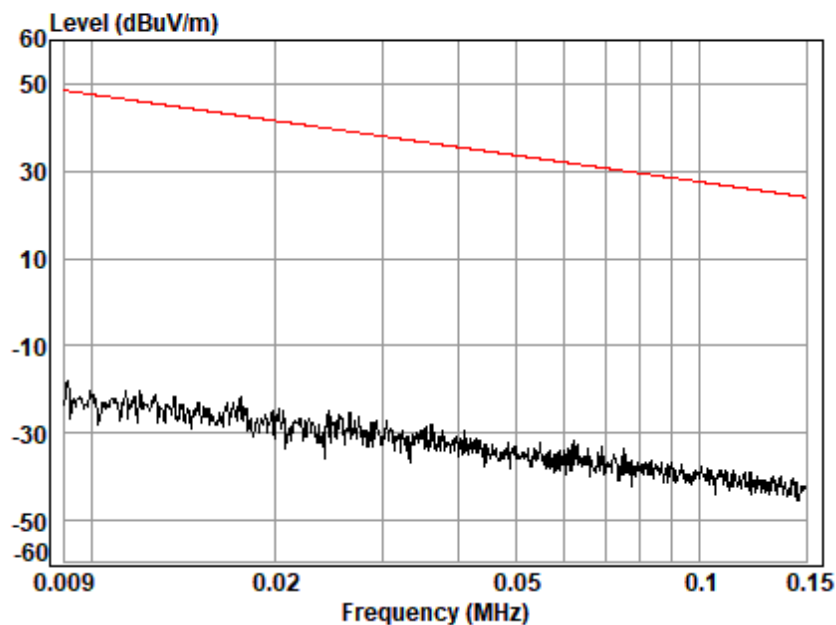
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Test Mode: 00; Polarity: Coplanar



Site : chamber  
Condition: 3m  
Job No. : 00062TL  
Test Mode: 00  
Polarity : coplanar



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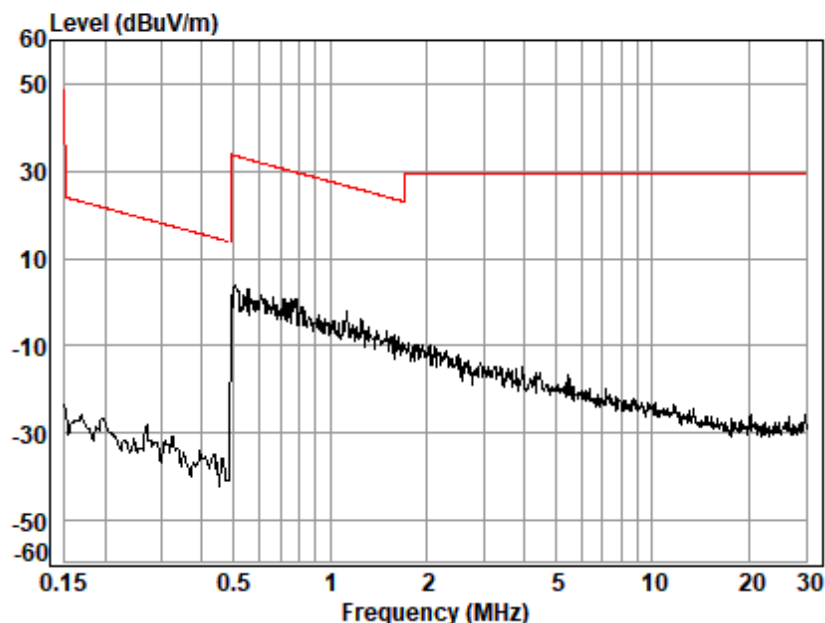
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Test Mode: 00; Polarity: Coaxial



Site : chamber  
Condition: 3m  
Job No. : 00062TL  
Test Mode: 00  
Polarity : coaxial



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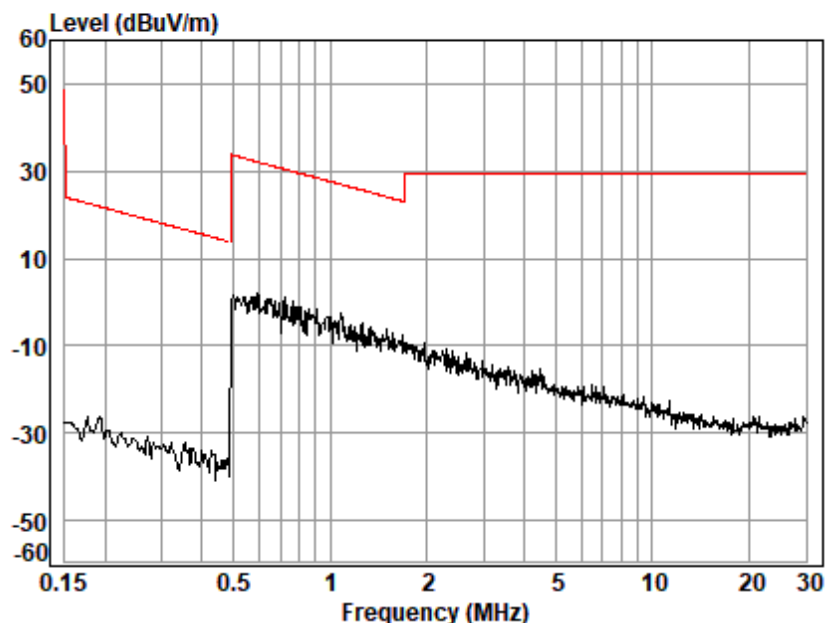
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Test Mode: 00; Polarity: Coplanar



Site : chamber  
Condition: 3m  
Job No. : 00062TL  
Test Mode: 00  
Polarity : coplanar



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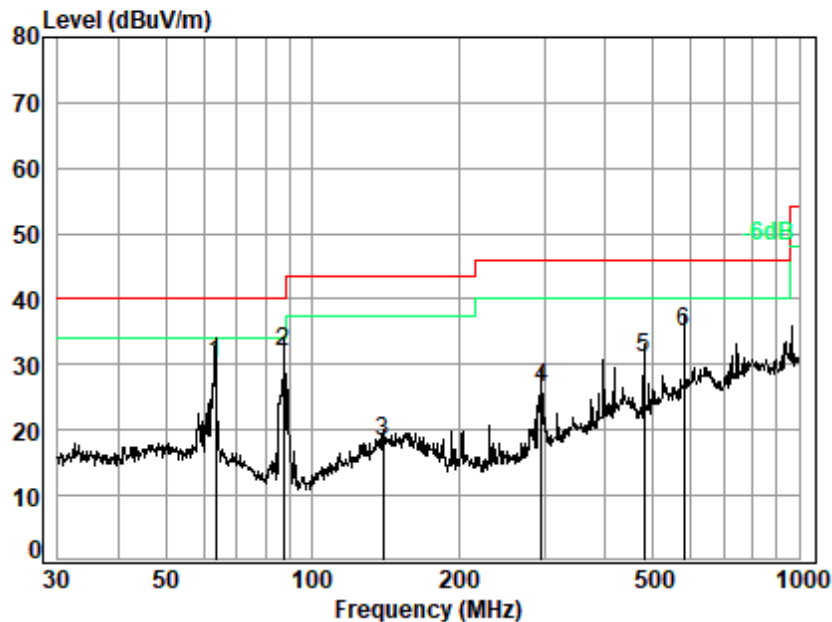
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Test Mode: 00; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 00

|   |        | Cable | Ant    | Preamp | Read  | Limit  | Over   |           |
|---|--------|-------|--------|--------|-------|--------|--------|-----------|
|   | Freq   | Loss  | Factor | Factor | Level | Line   | Limit  | Remark    |
|   | MHz    | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB        |
| 1 | 63.31  | 0.84  | 16.88  | 26.10  | 38.60 | 30.22  | 40.00  | -9.78 QP  |
| 2 | 87.42  | 0.65  | 11.95  | 26.02  | 45.40 | 31.98  | 40.00  | -8.02 QP  |
| 3 | 139.85 | 1.38  | 16.81  | 25.69  | 25.61 | 18.11  | 43.50  | -25.39 QP |
| 4 | 296.18 | 0.42  | 17.42  | 25.21  | 33.82 | 26.45  | 46.00  | -19.55 QP |
| 5 | 480.53 | 1.27  | 21.41  | 26.49  | 34.89 | 31.08  | 46.00  | -14.92 QP |
| 6 | 580.70 | 2.65  | 23.46  | 26.57  | 35.30 | 34.84  | 46.00  | -11.16 QP |



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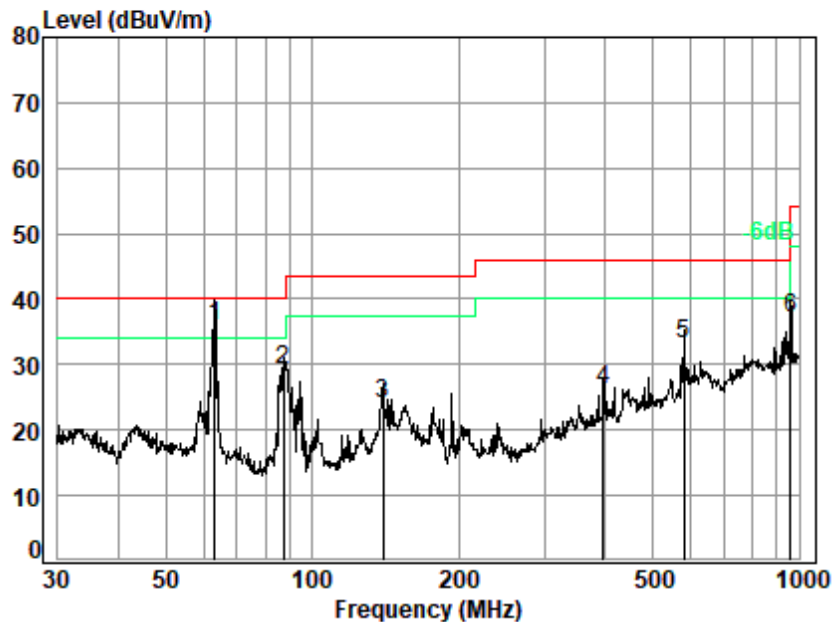
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Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 00

|   |        | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|---|--------|-------|--------|--------|-------|--------|--------|--------|--------|
|   | Freq   | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|   | MHz    | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 | 63.09  | 0.84  | 16.91  | 26.10  | 44.13 | 35.78  | 40.00  | -4.22  | QP     |
| 2 | 87.11  | 0.65  | 11.97  | 26.02  | 42.53 | 29.13  | 40.00  | -10.87 | QP     |
| 3 | 139.85 | 1.38  | 16.81  | 25.69  | 31.46 | 23.96  | 43.50  | -19.54 | QP     |
| 4 | 396.24 | 1.55  | 19.66  | 25.96  | 30.87 | 26.12  | 46.00  | -19.88 | QP     |
| 5 | 580.70 | 2.65  | 23.46  | 26.57  | 33.70 | 33.24  | 46.00  | -12.76 | QP     |
| 6 | 958.79 | 2.87  | 28.04  | 26.34  | 32.39 | 36.96  | 46.00  | -9.04  | QP     |



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## 7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2020) Section 6.6 & 11.12  
 Measurement Distance: 3m  
 Test Engineer: Rex Liu

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is  $20\log(1/3) = -9.54\text{dB}$  (for 1m test distance).

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1000 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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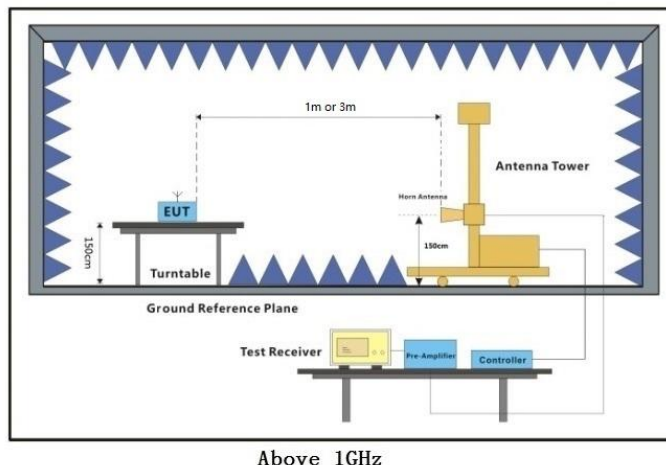
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### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- 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.
- For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
- For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).



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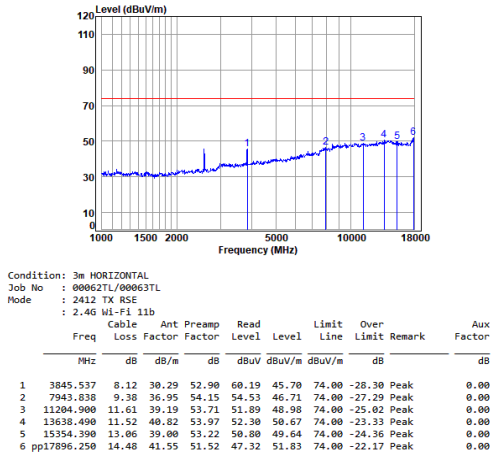
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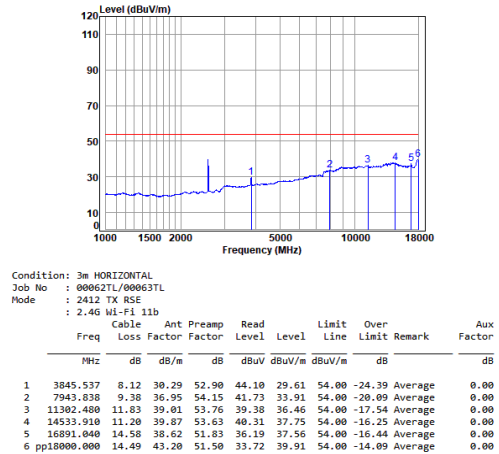
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Remark: Only retain the data of the worst-case 11b and 11n modes.

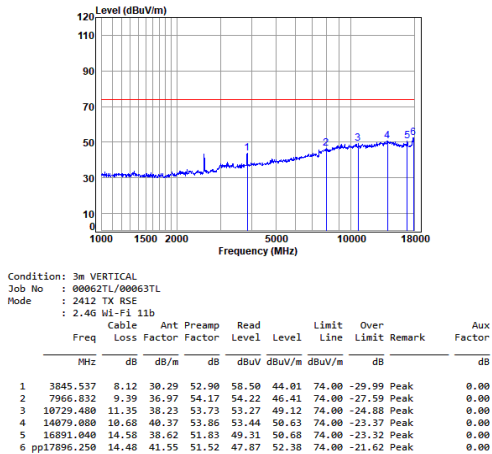
11b\_TX\_CH\_01\_Horizontal-Peak



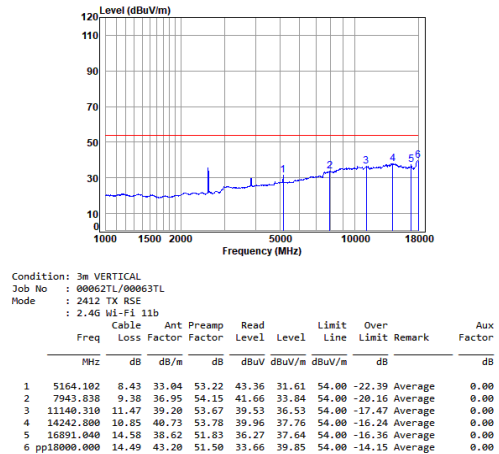
11b\_TX\_CH\_01\_Horizontal-Avg



11b\_TX\_CH\_01\_Vertical-Peak



11b\_TX\_CH\_01\_Vertical-Avg



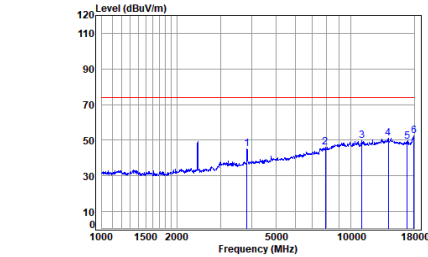
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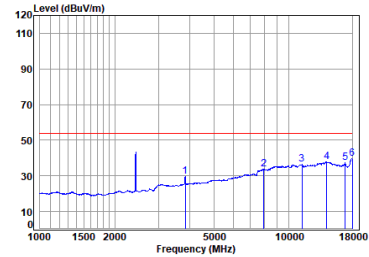
11b\_TX\_CH\_06\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 3834.438    | 8.07       | 30.27      | 52.90         | 59.87      | 45.31  | 74.00      | -28.69     | Peak   | 0.00       |
| 2 7920.911    | 9.37       | 36.77      | 54.13         | 54.04      | 46.05  | 74.00      | -27.95     | Peak   | 0.00       |
| 3 11180.160   | 11.39      | 38.20      | 53.66         | 52.98      | 49.91  | 74.00      | -24.09     | Peak   | 0.00       |
| 4 14160.710   | 10.77      | 40.63      | 53.82         | 53.46      | 51.04  | 74.00      | -22.96     | Peak   | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 47.92      | 49.29  | 74.00      | -24.71     | Peak   | 0.00       |
| 6 pp17948.050 | 14.48      | 42.37      | 51.51         | 47.22      | 52.56  | 74.00      | -21.44     | Peak   | 0.00       |

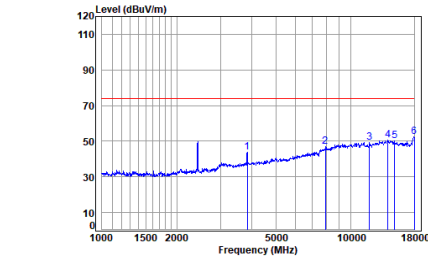
11b\_TX\_CH\_06\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 3845.537    | 8.12       | 30.29      | 52.90         | 44.18      | 29.69  | 54.00      | -24.31     | Average | 0.00       |
| 2 7943.030    | 9.30       | 36.95      | 54.15         | 41.66      | 33.84  | 54.00      | -20.16     | Average | 0.00       |
| 3 11302.400   | 11.83      | 39.01      | 53.76         | 39.35      | 36.43  | 54.00      | -17.57     | Average | 0.00       |
| 4 14242.800   | 10.85      | 40.73      | 53.78         | 40.04      | 37.84  | 54.00      | -16.16     | Average | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 36.16      | 37.53  | 54.00      | -16.47     | Average | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 33.70      | 39.89  | 54.00      | -14.11     | Average | 0.00       |

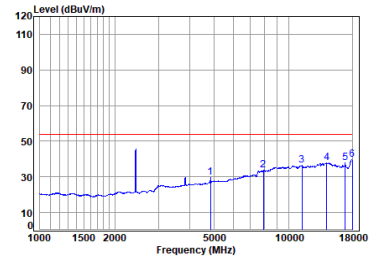
11b\_TX\_CH\_06\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 3845.537    | 8.12       | 30.29      | 52.90         | 58.25      | 43.76  | 74.00      | -30.24     | Peak   | 0.00       |
| 2 7920.911    | 9.37       | 36.77      | 54.13         | 55.19      | 47.20  | 74.00      | -26.80     | Peak   | 0.00       |
| 3 11180.160   | 11.71      | 38.59      | 54.05         | 52.89      | 49.14  | 74.00      | -24.86     | Peak   | 0.00       |
| 4 14119.830   | 10.73      | 40.34      | 53.84         | 53.38      | 50.61  | 74.00      | -23.39     | Peak   | 0.00       |
| 5 15046.850   | 12.43      | 39.35      | 53.38         | 51.87      | 50.27  | 74.00      | -23.73     | Peak   | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 46.35      | 52.54  | 74.00      | -21.46     | Peak   | 0.00       |

11b\_TX\_CH\_06\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11b

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 4859.975    | 8.25       | 31.82      | 53.16         | 42.71      | 29.62  | 54.00      | -24.38     | Average | 0.00       |
| 2 7920.911    | 9.37       | 36.77      | 54.13         | 41.73      | 33.74  | 54.00      | -20.26     | Average | 0.00       |
| 3 11302.400   | 11.83      | 39.01      | 53.76         | 39.35      | 36.43  | 54.00      | -17.57     | Average | 0.00       |
| 4 14242.800   | 10.85      | 40.73      | 53.78         | 40.05      | 37.85  | 54.00      | -16.15     | Average | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 36.33      | 37.70  | 54.00      | -16.30     | Average | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 33.70      | 39.89  | 54.00      | -14.11     | Average | 0.00       |



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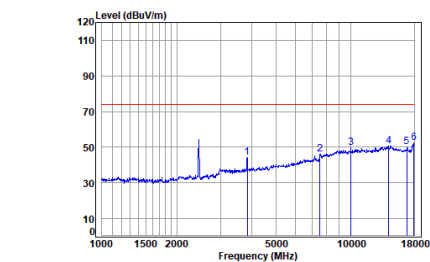
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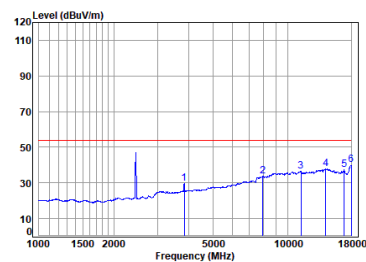
11b\_TX\_CH\_11\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11b

| Freq | Cable       | Ant    | Preamp | Read  | Limit  | Over   | Aux                    |
|------|-------------|--------|--------|-------|--------|--------|------------------------|
| MHz  | Loss        | Factor | Factor | Level | Line   | Limit  | Factor                 |
|      | dB          |        |        | dBuV  | dBuV/m | dBuV/m | dB                     |
| 1    | 3845.537    | 8.12   | 30.29  | 52.90 | 58.65  | 44.16  | 74.00 -29.84 Peak 0.00 |
| 2    | 7519.349    | 9.23   | 36.51  | 53.74 | 54.29  | 46.29  | 74.00 -27.71 Peak 0.00 |
| 3    | 10010.420   | 11.83  | 38.29  | 54.00 | 53.49  | 49.52  | 74.00 -24.46 Peak 0.00 |
| 4    | 14242.800   | 10.85  | 40.73  | 53.78 | 53.02  | 50.82  | 74.00 -23.18 Peak 0.00 |
| 5    | 16842.298   | 14.68  | 38.72  | 51.88 | 48.76  | 50.28  | 74.00 -23.72 Peak 0.00 |
| 6    | pp17948.058 | 14.48  | 42.37  | 51.51 | 47.18  | 52.52  | 74.00 -21.48 Peak 0.00 |

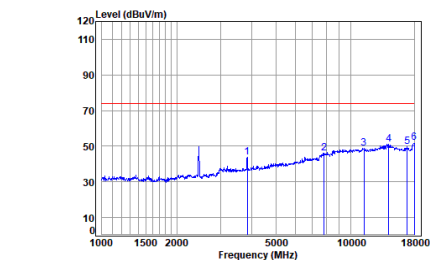
11b\_TX\_CH\_11\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11b

| : 2.46 Wi-Fi 11b |             |            |            |               |            |             |            |                |            |
|------------------|-------------|------------|------------|---------------|------------|-------------|------------|----------------|------------|
|                  | Freq        | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark         | Aux Factor |
|                  | MHz         | dB         | dB/m       | dB            | dBuV       | dBuV/m      | dBuV/m     | dB             | dB         |
| 1                | 3845.537    | 8.12       | 30.29      | 52.90         | 43.97      | 29.48       | 54.00      | -24.52 Average | 0.00       |
| 2                | 7943.838    | 9.30       | 36.95      | 54.15         | 41.62      | 33.80       | 54.00      | -20.20 Average | 0.00       |
| 3                | 11302.480   | 11.83      | 39.01      | 53.76         | 39.32      | 36.40       | 54.00      | -17.60 Average | 0.00       |
| 4                | 14242.800   | 10.85      | 40.73      | 53.78         | 39.88      | 37.68       | 54.00      | -16.32 Average | 0.00       |
| 5                | 16891.040   | 14.58      | 38.62      | 51.83         | 36.22      | 37.59       | 54.00      | -16.41 Average | 0.00       |
| 6                | pp18000.000 | 14.49      | 43.20      | 51.50         | 33.73      | 39.92       | 54.00      | -14.08 Average | 0.00       |

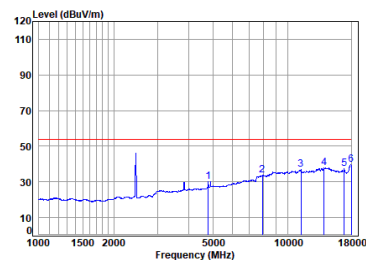
11b\_TX\_CH\_11\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11b

| Freq | Cable       | Ant    | Preamp | Read  | Limit  | Over   | Aux                    |
|------|-------------|--------|--------|-------|--------|--------|------------------------|
| MHz  | Loss        | Factor | Factor | Level | Line   | Limit  | Factor                 |
|      | dB          |        |        | dBuV  | dBuV/m | dBuV/m | dB                     |
| 1    | 3845.537    | 8.12   | 30.29  | 52.90 | 58.48  | 43.99  | 74.00 -30.01 Peak 0.00 |
| 2    | 7807.262    | 9.33   | 36.40  | 54.02 | 54.36  | 46.07  | 74.00 -27.93 Peak 0.00 |
| 3    | 11302.480   | 11.83  | 39.01  | 53.76 | 51.96  | 49.04  | 74.00 -24.96 Peak 0.00 |
| 4    | 14242.800   | 10.85  | 40.73  | 53.78 | 51.36  | 51.16  | 74.00 -22.84 Peak 0.00 |
| 5    | 16891.040   | 14.58  | 38.62  | 51.83 | 48.28  | 49.65  | 74.00 -24.35 Peak 0.00 |
| 6    | pp18000.000 | 14.49  | 43.20  | 51.50 | 45.62  | 51.81  | 74.00 -22.19 Peak 0.00 |

11b\_TX\_CH\_11\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11b

| : 2.4G Wi-Fi 11b |             |            |            |               |            |             |            |                |            |
|------------------|-------------|------------|------------|---------------|------------|-------------|------------|----------------|------------|
|                  | Freq        | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark         | Aux Factor |
|                  | MHz         | dB         | dB/m       | dB            | dBuV       | dBuV/m      | dBuV/m     | dB             | dB         |
| 1                | 4790.245    | 8.20       | 32.00      | 53.14         | 42.88      | 29.94       | 54.00      | -24.06 Average | 0.00       |
| 2                | 7920.911    | 9.37       | 36.77      | 54.13         | 41.87      | 33.88       | 54.00      | -20.12 Average | 0.00       |
| 3                | 11302.480   | 11.83      | 39.01      | 53.76         | 39.66      | 36.74       | 54.00      | -17.26 Average | 0.00       |
| 4                | 13997.930   | 10.61      | 40.98      | 53.90         | 40.07      | 37.76       | 54.00      | -16.24 Average | 0.00       |
| 5                | 16891.040   | 14.58      | 38.62      | 51.83         | 36.14      | 37.51       | 54.00      | -16.49 Average | 0.00       |
| 6                | pp18000.000 | 14.49      | 43.20      | 51.50         | 33.71      | 39.90       | 54.00      | -14.10 Average | 0.00       |

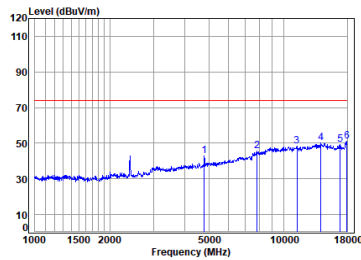


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11n\_20M\_TX\_CH\_01\_Horizontal-Peak

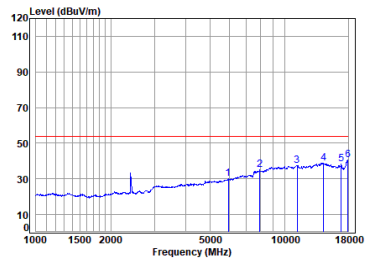


Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

| Freq | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Over<br>Limit | Remark            | Aux<br>Factor |
|------|---------------|---------------|------------------|---------------|----------------|---------------|-------------------|---------------|
| MHz  | dB            | dB/m          |                  | dBuV          | dBuV/m         | dB            |                   | dB            |
| 1    | 4790.245      | 8.20          | 32.00            | 53.14         | 55.99          | 43.05         | 74.00 -30.95 Peak | 0.00          |
| 2    | 7887.262      | 9.33          | 36.40            | 54.82         | 54.11          | 45.82         | 74.00 -28.18 Peak | 0.00          |
| 3    | 11362.480     | 11.83         | 39.01            | 53.76         | 51.36          | 48.44         | 74.00 -25.56 Peak | 0.00          |
| 4    | 14119.830     | 10.73         | 40.34            | 53.84         | 53.02          | 50.25         | 74.00 -23.75 Peak | 0.00          |
| 5    | 16891.040     | 14.58         | 38.62            | 51.83         | 47.82          | 49.19         | 74.00 -24.81 Peak | 0.00          |
| 6    | pp17948.050   | 14.48         | 42.37            | 51.51         | 45.74          | 51.08         | 74.00 -22.92 Peak | 0.00          |

11n\_20M\_TX\_CH\_01\_Horizontal-Avg

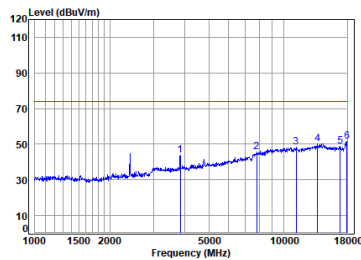


Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

| Freq | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Over<br>Limit | Remark               | Aux<br>Factor |
|------|---------------|---------------|------------------|---------------|----------------|---------------|----------------------|---------------|
| MHz  | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dB            |                      | dB            |
| 1    | 5932.638      | 8.11          | 33.62            | 53.29         | 41.51          | 29.95         | 54.00 -24.05 Average | 0.00          |
| 2    | 7943.838      | 9.38          | 36.95            | 54.15         | 42.73          | 34.51         | 54.00 -19.09 Average | 0.00          |
| 3    | 11237.330     | 11.68         | 39.13            | 53.72         | 40.43          | 37.52         | 54.00 -16.48 Average | 0.00          |
| 4    | 14325.370     | 10.94         | 40.42            | 53.73         | 41.15          | 38.78         | 54.00 -15.22 Average | 0.00          |
| 5    | 16891.040     | 14.58         | 38.62            | 51.83         | 37.05          | 38.42         | 54.00 -15.58 Average | 0.00          |
| 6    | pp17948.050   | 14.48         | 42.37            | 51.51         | 35.23          | 40.57         | 54.00 -13.43 Average | 0.00          |

11n\_20M\_TX\_CH\_01\_Vertical-Peak

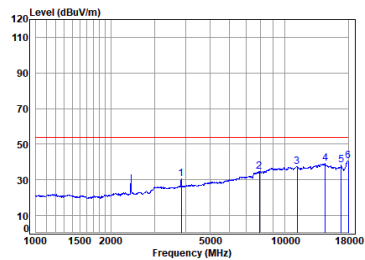


Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

|   | Freq        | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Over<br>Limit | Remark      | Aux<br>Factor |
|---|-------------|---------------|---------------|------------------|---------------|----------------|---------------|-------------|---------------|
|   | MHz         | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dB            |             | dB            |
| 1 | 3845.537    | 8.12          | 30.29         | 52.90            | 58.36         | 43.87          | 74.00         | -30.13 Peak | 0.00          |
| 2 | 7784.729    | 9.32          | 36.37         | 54.00            | 53.81         | 45.50          | 74.00         | -28.50 Peak | 0.00          |
| 3 | 11237.330   | 11.68         | 39.13         | 53.72            | 51.09         | 48.18          | 74.00         | -25.82 Peak | 0.00          |
| 4 | 13677.970   | 11.42         | 40.74         | 53.96            | 52.11         | 50.31          | 74.00         | -23.69 Peak | 0.00          |
| 5 | 16891.040   | 14.58         | 38.62         | 51.83            | 47.31         | 48.68          | 74.00         | -25.32 Peak | 0.00          |
| 6 | pp17948.050 | 14.48         | 42.37         | 51.51            | 46.38         | 51.72          | 74.00         | -22.28 Peak | 0.00          |

11n\_20M\_TX\_CH\_01\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

| Freq | Cable       | Ant    | Preamp | Read  | Limit  | Over  | Aux                  |      |
|------|-------------|--------|--------|-------|--------|-------|----------------------|------|
|      | Loss        | Factor | Factor | Level | Line   | Limit | Factor               |      |
| MHz  | dB          | dB/m   | dB     | dBuV  | dBuV/m | dB    | dB                   |      |
| 1    | 3845.537    | 8.12   | 30.29  | 52.90 | 45.00  | 30.51 | 54.00 -23.49 Average | 0.00 |
| 2    | 7920.911    | 9.37   | 36.77  | 54.13 | 42.79  | 34.80 | 54.00 -19.20 Average | 0.00 |
| 3    | 11204.900   | 11.61  | 39.19  | 53.71 | 40.26  | 37.35 | 54.00 -16.65 Average | 0.00 |
| 4    | 14533.910   | 11.20  | 39.87  | 53.63 | 41.64  | 39.08 | 54.00 -14.92 Average | 0.00 |
| 5    | 16891.040   | 14.58  | 38.62  | 51.83 | 37.12  | 38.49 | 54.00 -15.51 Average | 0.00 |
| 6    | pp18000.000 | 14.49  | 43.20  | 51.50 | 34.42  | 40.61 | 54.00 -13.39 Average | 0.00 |

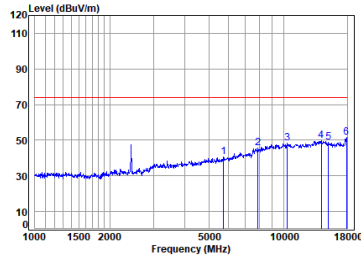
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SZCCS-TRF-01 Rev. A/2

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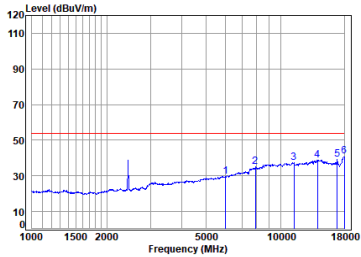
11n\_20M\_TX\_CH\_06\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        | dB         |
| 1 5730.396    | 8.33       | 33.28      | 53.27         | 52.29      | 40.63  | 74.00  | -33.37 | Peak   | 0.00       |
| 2 7875.254    | 9.36       | 36.50      | 54.00         | 53.71      | 45.49  | 74.00  | -28.51 | Peak   | 0.00       |
| 3 10363.710   | 11.61      | 38.37      | 53.91         | 52.29      | 40.36  | 74.00  | -25.64 | Peak   | 0.00       |
| 4 14160.710   | 10.77      | 40.63      | 53.82         | 52.01      | 49.59  | 74.00  | -24.41 | Peak   | 0.00       |
| 5 15134.080   | 12.61      | 39.30      | 53.33         | 50.22      | 48.80  | 74.00  | -25.20 | Peak   | 0.00       |
| 6 pp17896.258 | 14.48      | 41.55      | 51.52         | 47.26      | 51.77  | 74.00  | -22.23 | Peak   | 0.00       |

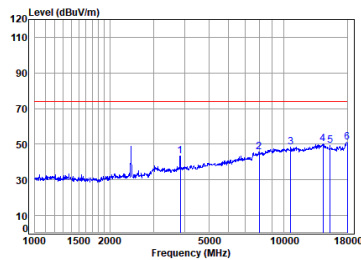
11n\_20M\_TX\_CH\_06\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |         | dB         |
| 1 6001.626    | 8.04       | 33.31      | 53.30         | 41.71      | 29.76  | 54.00  | -24.24 | Average | 0.00       |
| 2 7920.911    | 9.37       | 36.77      | 54.13         | 42.97      | 34.58  | 54.00  | -19.02 | Average | 0.00       |
| 3 11302.400   | 11.83      | 39.01      | 53.76         | 40.46      | 37.54  | 54.00  | -16.46 | Average | 0.00       |
| 4 14038.450   | 10.64      | 40.69      | 53.88         | 41.27      | 38.72  | 54.00  | -15.28 | Average | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 37.72      | 39.09  | 54.00  | -14.91 | Average | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 34.72      | 40.91  | 54.00  | -13.09 | Average | 0.00       |

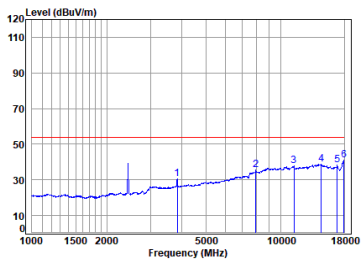
11n\_20M\_TX\_CH\_06\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        | dB         |
| 1 3845.537    | 8.12       | 30.29      | 52.90         | 57.99      | 43.50  | 74.00  | -30.50 | Peak   | 0.00       |
| 2 7966.832    | 9.39       | 36.97      | 54.17         | 53.48      | 45.67  | 74.00  | -28.33 | Peak   | 0.00       |
| 3 10667.640   | 11.40      | 38.30      | 53.76         | 52.45      | 48.39  | 74.00  | -25.61 | Peak   | 0.00       |
| 4 14366.840   | 10.98      | 40.30      | 53.71         | 52.59      | 50.16  | 74.00  | -23.84 | Peak   | 0.00       |
| 5 15354.390   | 13.06      | 39.00      | 53.22         | 50.36      | 49.20  | 74.00  | -24.80 | Peak   | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 45.05      | 51.24  | 74.00  | -22.76 | Peak   | 0.00       |

11n\_20M\_TX\_CH\_06\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2437 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |         | dB         |
| 1 3845.537    | 8.12       | 30.29      | 52.90         | 45.17      | 30.68  | 54.00  | -23.32 | Average | 0.00       |
| 2 7943.831    | 9.38       | 36.95      | 54.15         | 43.31      | 35.49  | 54.00  | -18.51 | Average | 0.00       |
| 3 11302.400   | 11.83      | 39.01      | 53.76         | 40.61      | 37.69  | 54.00  | -16.31 | Average | 0.00       |
| 4 14533.910   | 11.20      | 39.87      | 53.63         | 41.37      | 38.81  | 54.00  | -15.19 | Average | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 36.91      | 38.28  | 54.00  | -15.72 | Average | 0.00       |
| 6 pp17948.050 | 14.48      | 42.37      | 51.51         | 35.50      | 40.84  | 54.00  | -13.16 | Average | 0.00       |

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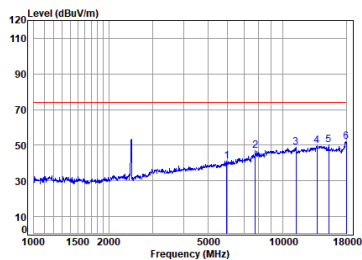
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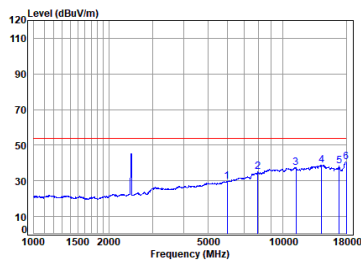
11n\_20M\_TX\_CH\_11\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        | dB         |
| 1 5949.811    | 8.09       | 33.90      | 53.30         | 52.54      | 41.23  | 74.00  | -32.77 | Peak   | 0.00       |
| 2 7762.208    | 9.32       | 36.32      | 53.97         | 55.27      | 46.94  | 74.00  | -27.06 | Peak   | 0.00       |
| 3 11302.480   | 11.83      | 39.01      | 53.76         | 51.92      | 49.00  | 74.00  | -25.00 | Peak   | 0.00       |
| 4 13717.560   | 11.32      | 40.68      | 53.96         | 51.71      | 49.75  | 74.00  | -24.25 | Peak   | 0.00       |
| 5 15310.070   | 12.97      | 39.00      | 53.24         | 51.26      | 49.99  | 74.00  | -24.01 | Peak   | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 45.92      | 52.11  | 74.00  | -21.89 | Peak   | 0.00       |

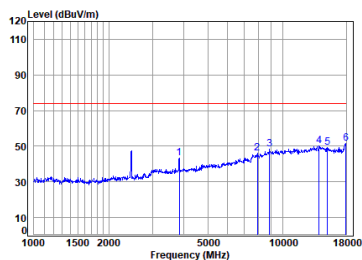
11n\_20M\_TX\_CH\_11\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |         | dB         |
| 1 5944.305    | 8.06       | 33.49      | 53.30         | 41.58      | 29.83  | 54.00  | -24.17 | Average | 0.00       |
| 2 7943.038    | 9.30       | 36.95      | 54.15         | 42.76      | 34.94  | 54.00  | -19.06 | Average | 0.00       |
| 3 11302.480   | 11.83      | 39.01      | 53.76         | 40.48      | 37.56  | 54.00  | -16.44 | Average | 0.00       |
| 4 14325.370   | 10.94      | 40.42      | 53.73         | 41.26      | 38.89  | 54.00  | -15.11 | Average | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 37.03      | 38.40  | 54.00  | -15.60 | Average | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 34.50      | 40.69  | 54.00  | -13.31 | Average | 0.00       |

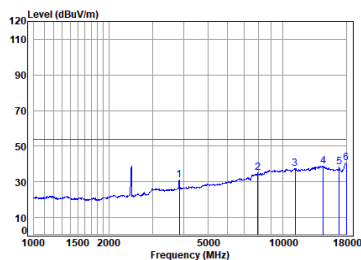
11n\_20M\_TX\_CH\_11\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        | dB         |
| 1 3845.537    | 8.12       | 30.29      | 52.90         | 57.77      | 43.28  | 74.00  | -30.72 | Peak   | 0.00       |
| 2 7920.911    | 9.37       | 36.77      | 54.13         | 54.12      | 46.13  | 74.00  | -27.87 | Peak   | 0.00       |
| 3 8866.062    | 10.65      | 38.06      | 53.94         | 53.69      | 48.46  | 74.00  | -25.54 | Peak   | 0.00       |
| 4 13997.930   | 10.61      | 40.98      | 53.90         | 52.37      | 50.06  | 74.00  | -23.94 | Peak   | 0.00       |
| 5 15134.080   | 12.61      | 39.30      | 53.33         | 50.80      | 49.38  | 74.00  | -24.62 | Peak   | 0.00       |
| 6 pp17948.050 | 14.48      | 42.37      | 51.51         | 46.10      | 51.44  | 74.00  | -22.56 | Peak   | 0.00       |

11n\_20M\_TX\_CH\_11\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 00062TL/00063TL  
Mode : 2462 TX RSE  
: 2.4G Wi-Fi 11n20

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |         | dB         |
| 1 3845.537    | 8.12       | 30.29      | 52.90         | 45.34      | 30.85  | 54.00  | -23.15 | Average | 0.00       |
| 2 7943.038    | 9.30       | 36.95      | 54.15         | 42.79      | 34.97  | 54.00  | -19.03 | Average | 0.00       |
| 3 11204.900   | 11.61      | 39.19      | 53.71         | 40.33      | 37.42  | 54.00  | -16.58 | Average | 0.00       |
| 4 14533.910   | 11.20      | 39.87      | 53.63         | 41.47      | 38.91  | 54.00  | -15.09 | Average | 0.00       |
| 5 16891.040   | 14.58      | 38.62      | 51.83         | 36.99      | 38.36  | 54.00  | -15.64 | Average | 0.00       |
| 6 pp18000.000 | 14.49      | 43.20      | 51.50         | 34.62      | 40.81  | 54.00  | -13.19 | Average | 0.00       |



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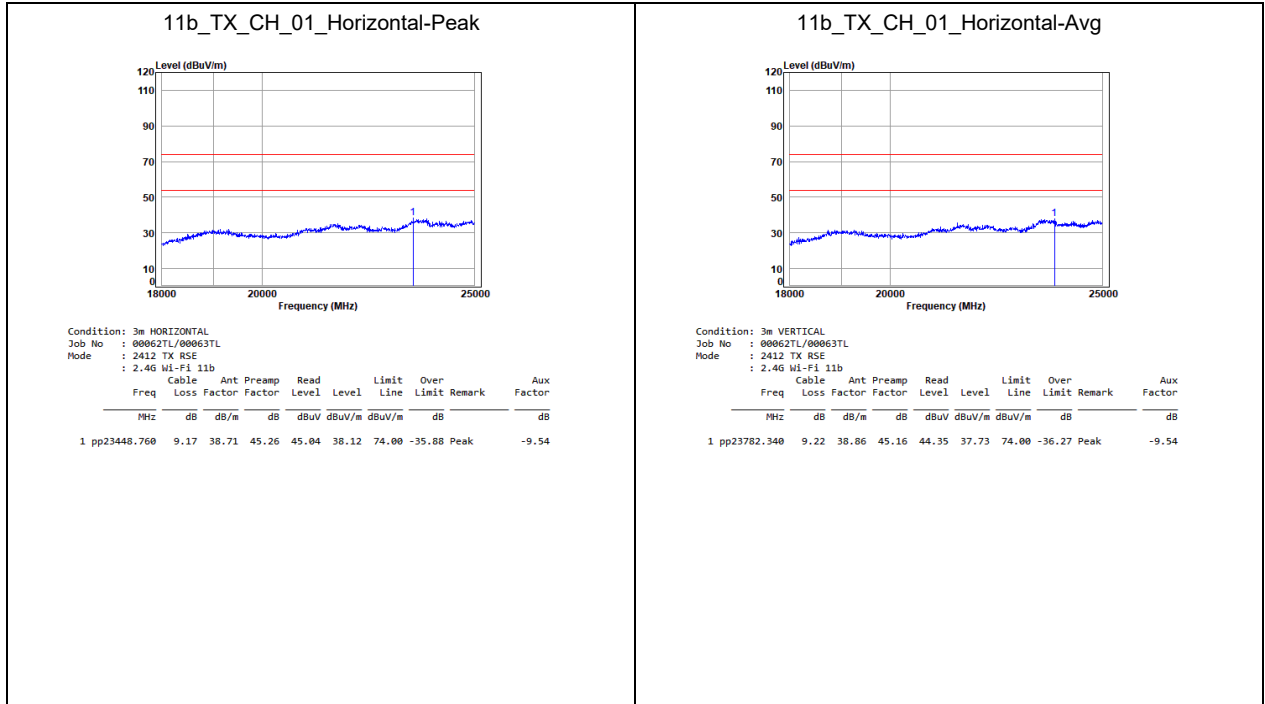
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### 7.5 Conducted Spurious Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.247(d)  
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.11  
 Test Engineer: Ian Li

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: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

#### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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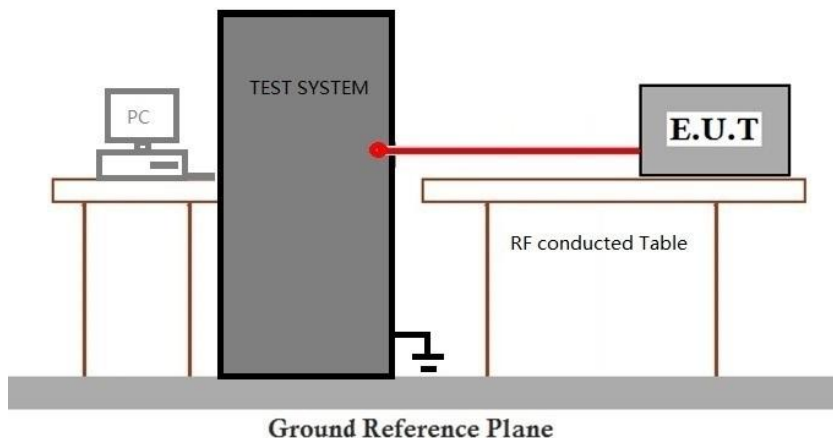
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### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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### 7.6 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 7.8.7.2  
 Test Engineer: Ian Li

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).

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

#### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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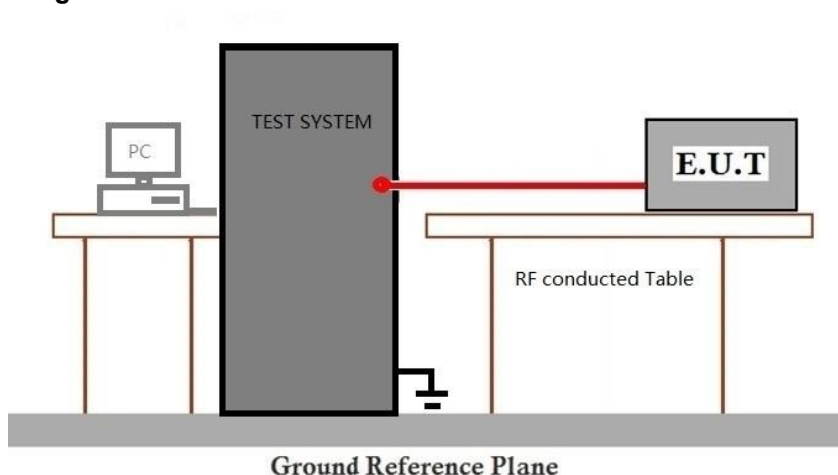
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### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.10.3  
 Test Engineer: Ian Li

Limit:

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

#### 7.7.1 E.U.T. Operation

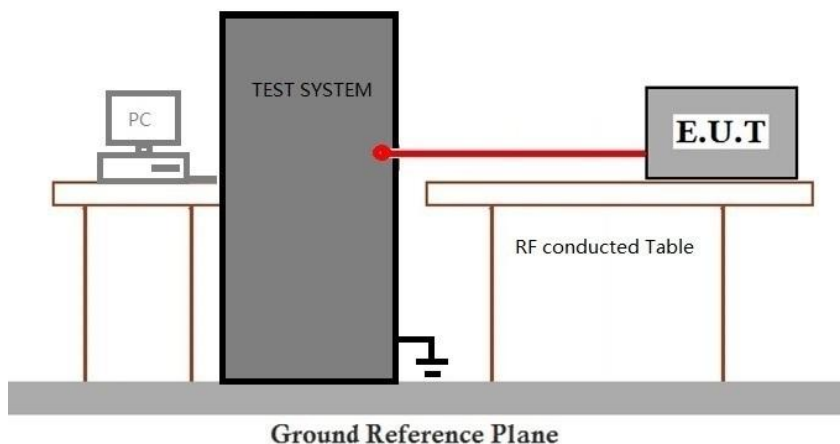
Operating Environment:

Temperature: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

#### 7.7.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

#### 7.7.3 Test Setup Diagram



#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.8.1  
 Test Engineer: Ian Li

Limit:  
 ≥500 kHz

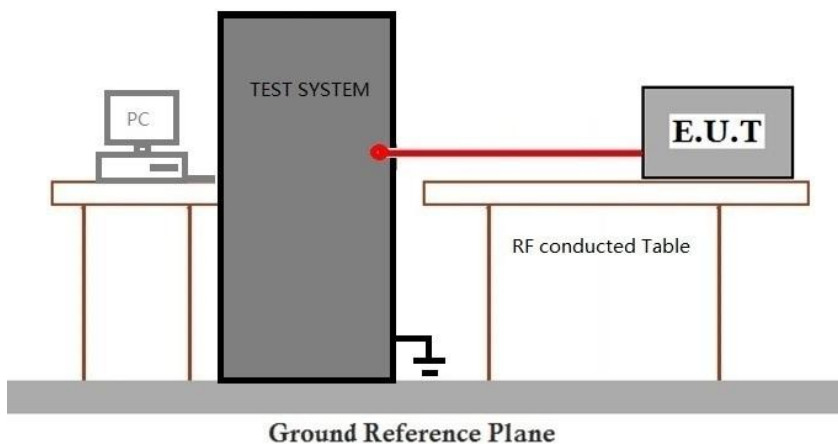
#### 7.8.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

#### 7.8.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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



#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.9 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)  
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.9.2  
 Test Engineer: Ian Li

Limit:

| 20 dB bandwidth of the hopping channel | Hopping frequencies          | Average time of occupancy                                        |
|----------------------------------------|------------------------------|------------------------------------------------------------------|
| less than 250 kHz                      | least 50 hopping frequencies | shall not be greater than 0.4 seconds within a 20 second period  |
| 250 kHz to 500kHz                      | least 25 hopping frequencies | shall not be greater than 0.4 seconds within a 10 second period. |

#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

#### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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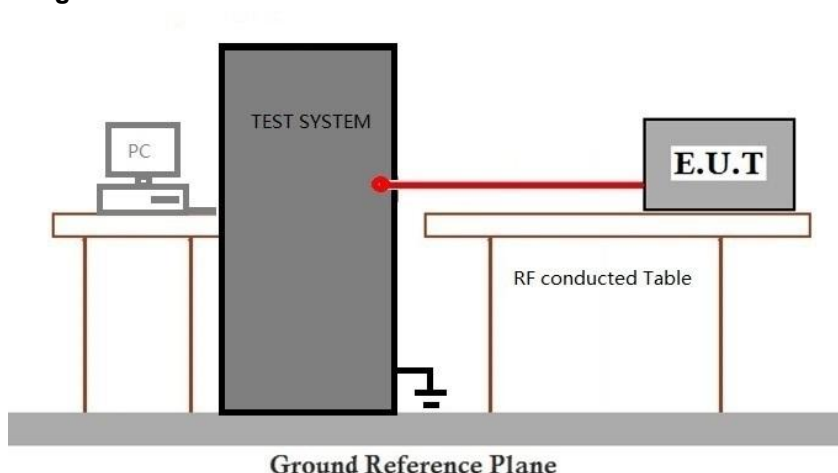
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### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.10 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)  
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.9.1  
 Test Engineer: Ian Li

Limit:

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

#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

#### 7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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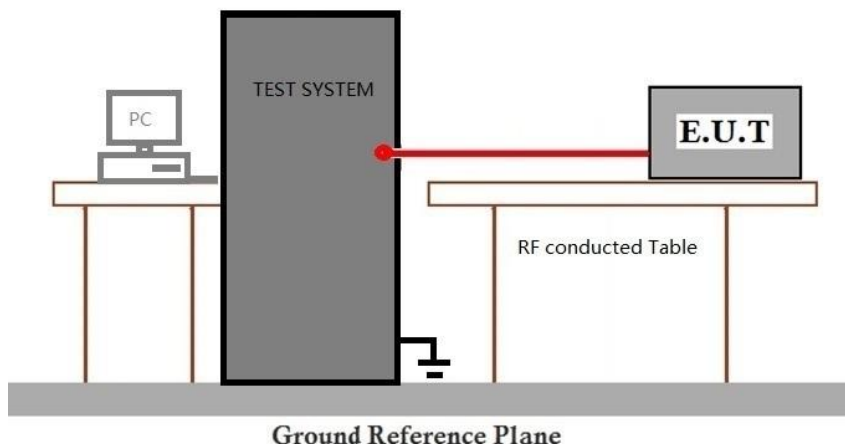
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### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2606000062TL

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2606000062TL



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 8.416     | 8.570       | 98.20          | 0.08                              | 0.73                  |
|                |         | 2437            | 8.420     | 8.563       | 98.33          | 0.07                              | 1.24                  |
|                |         | 2462            | 8.424     | 8.567       | 98.33          | 0.07                              | 1.08                  |
| 802.11g        | SISO    | 2412            | 1.397     | 1.502       | 93.01          | 0.31                              | 4.68                  |
|                |         | 2437            | 1.401     | 1.557       | 89.98          | 0.46                              | 8.55                  |
|                |         | 2462            | 1.401     | 1.556       | 90.04          | 0.46                              | 8.51                  |
| 802.11n (HT20) | MIMO    | 2412            | 1.316     | 1.469       | 89.58          | 0.48                              | 7.74                  |
|                |         | 2437            | 1.309     | 1.460       | 89.66          | 0.47                              | 7.19                  |
|                |         | 2462            | 1.312     | 1.460       | 89.86          | 0.46                              | 8.53                  |
| 802.11n (HT40) | MIMO    | 2422            | 0.649     | 0.800       | 81.12          | 0.91                              | 13.93                 |
|                |         | 2437            | 0.652     | 0.772       | 84.46          | 0.73                              | 12.45                 |
|                |         | 2452            | 0.649     | 0.791       | 82.05          | 0.86                              | 14.28                 |



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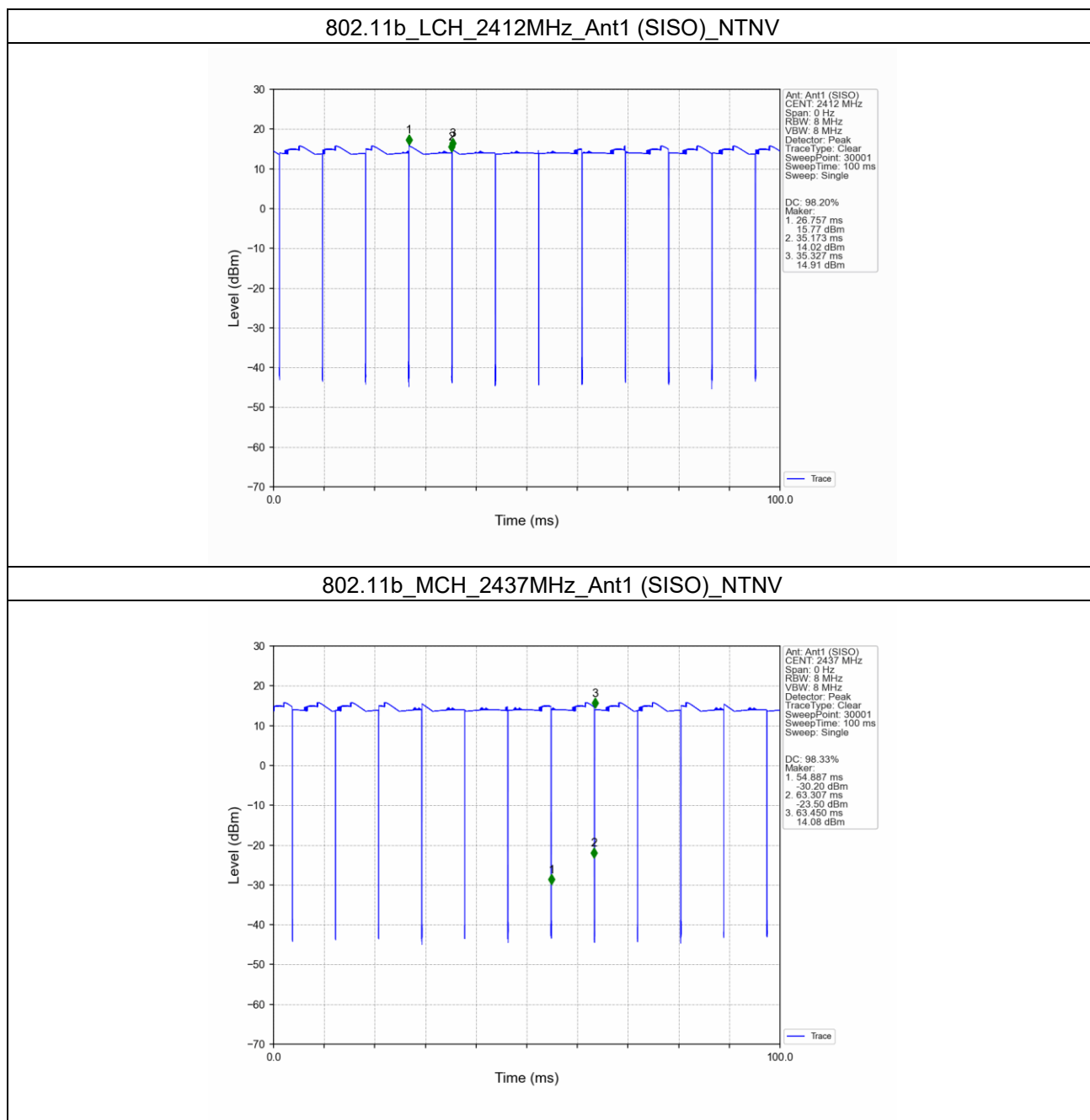
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### 1.2 Test Graph

#### 1.2.1 Ant1



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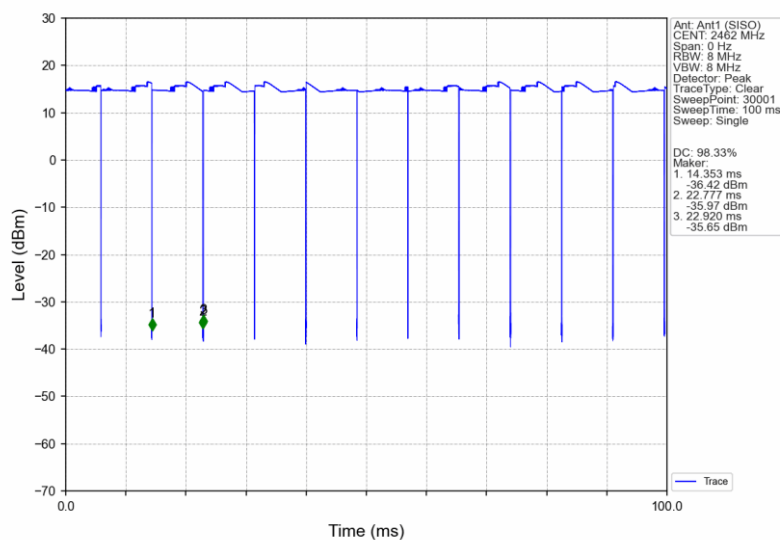
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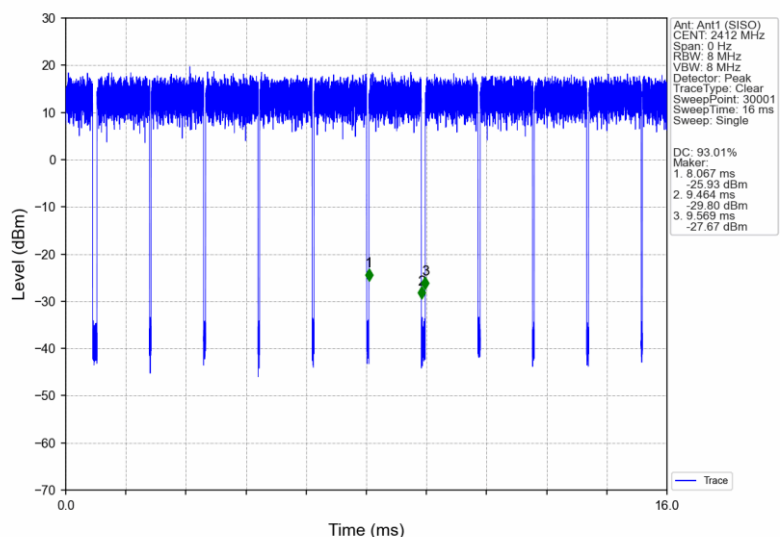
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

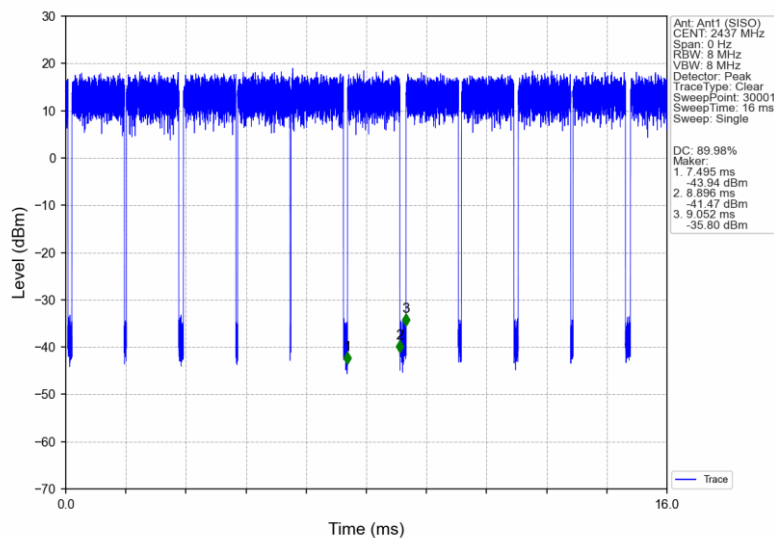


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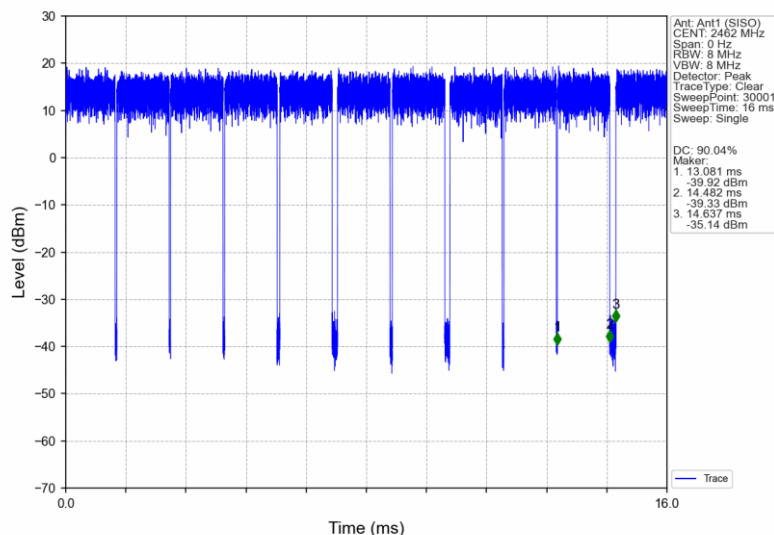
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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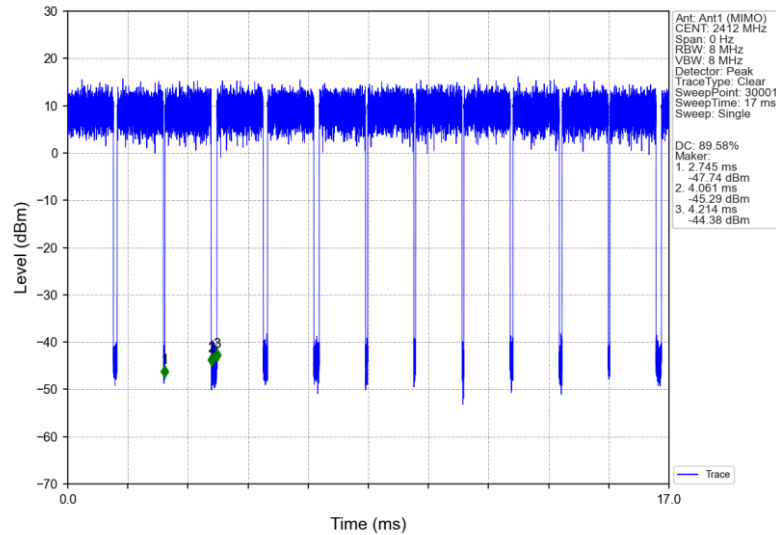
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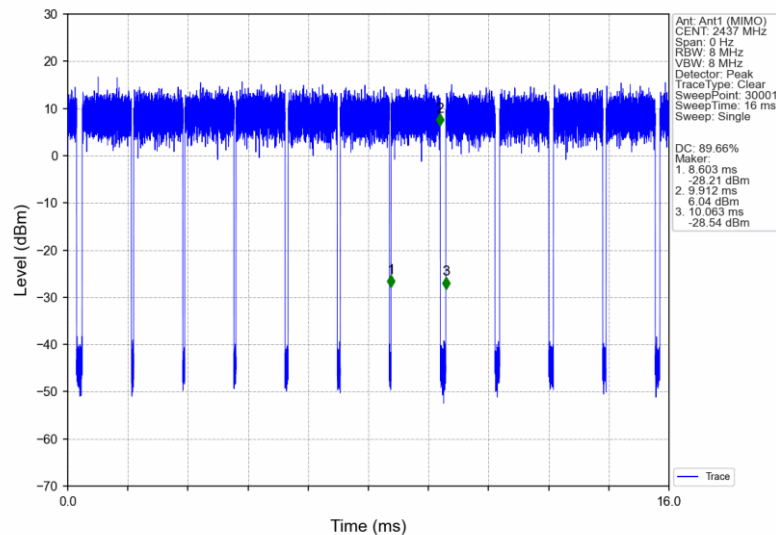
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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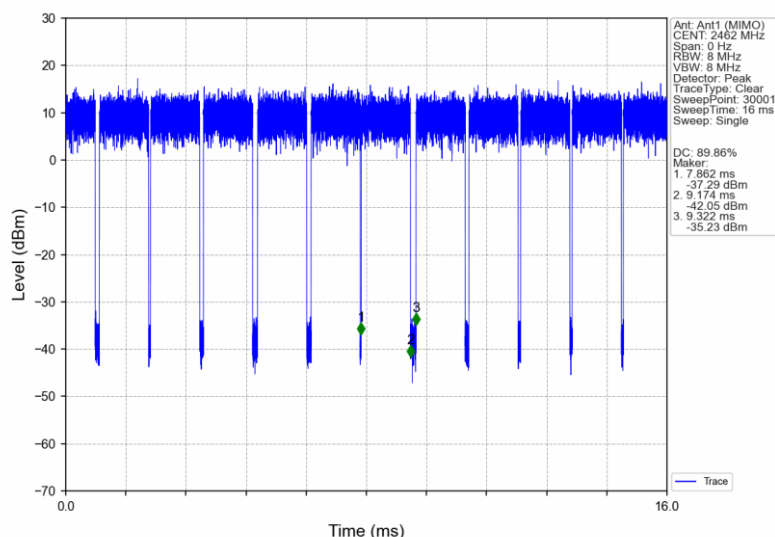
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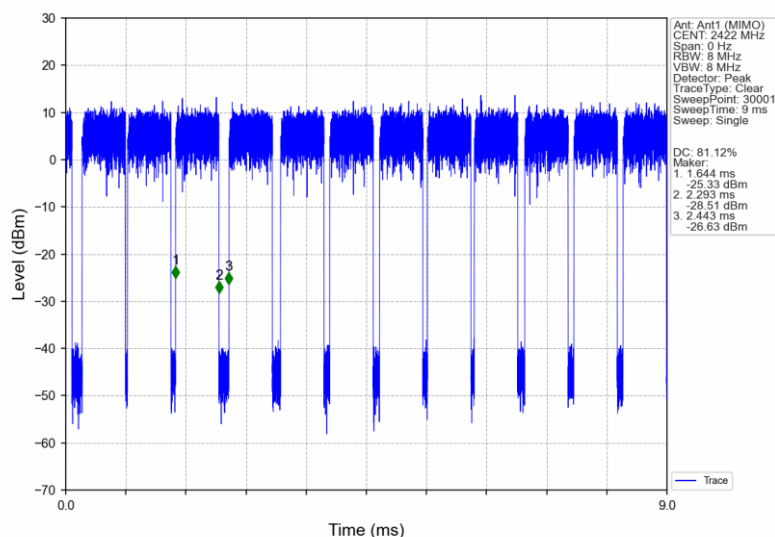
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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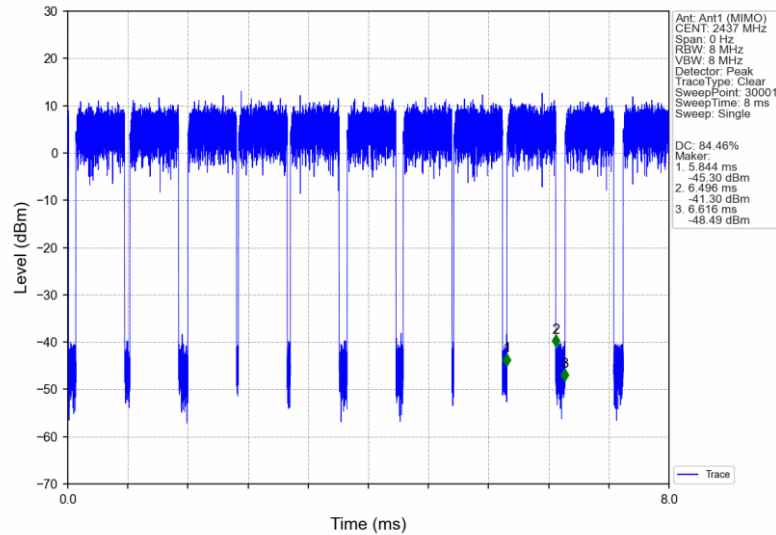
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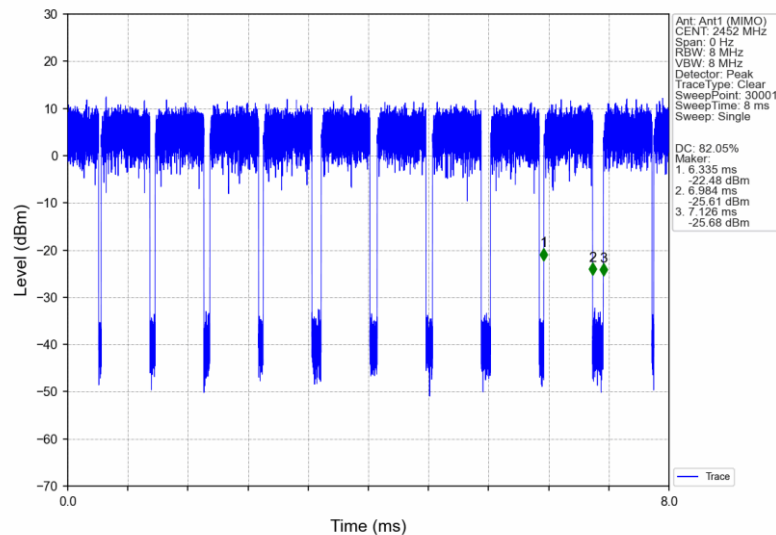
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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SZCCS-TRF-01 Rev. A/2

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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|----------------|---------|-----------------|-----|------------------------------|-------|---------|
|                |         |                 |     | Result                       | Limit |         |
| 802.11b        | SISO    | 2412            | 1   | 14.167                       | /     | Pass    |
|                |         | 2437            | 1   | 14.172                       | /     | Pass    |
|                |         | 2462            | 1   | 14.167                       | /     | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.474                       | /     | Pass    |
|                |         | 2437            | 1   | 16.462                       | /     | Pass    |
|                |         | 2462            | 1   | 16.434                       | /     | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 17.502                       | /     | Pass    |
|                |         | 2437            | 1   | 17.488                       | /     | Pass    |
|                |         | 2462            | 1   | 17.481                       | /     | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 35.986                       | /     | Pass    |
|                |         | 2437            | 1   | 36.054                       | /     | Pass    |
|                |         | 2452            | 1   | 35.980                       | /     | Pass    |

#### 2.1.2 6dB BW

| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.618               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 10.053              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 9.618               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 15.914              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 15.897              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 15.952              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 16.905              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.099              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.045              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 35.330              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 34.984              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 32.235              | $\geq 0.5$ | Pass    |



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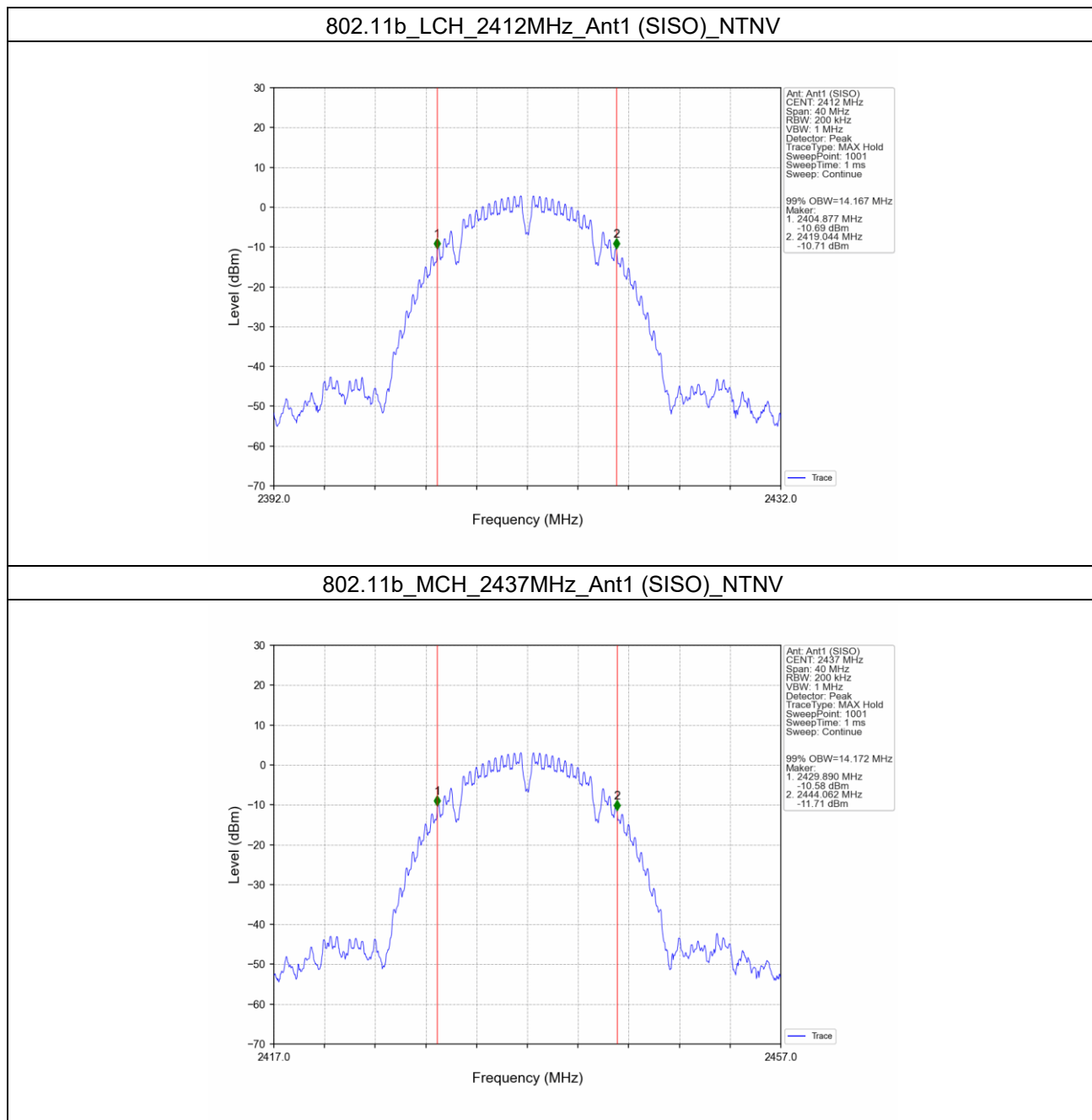
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### 2.2 Test Graph

#### 2.2.1 OBW



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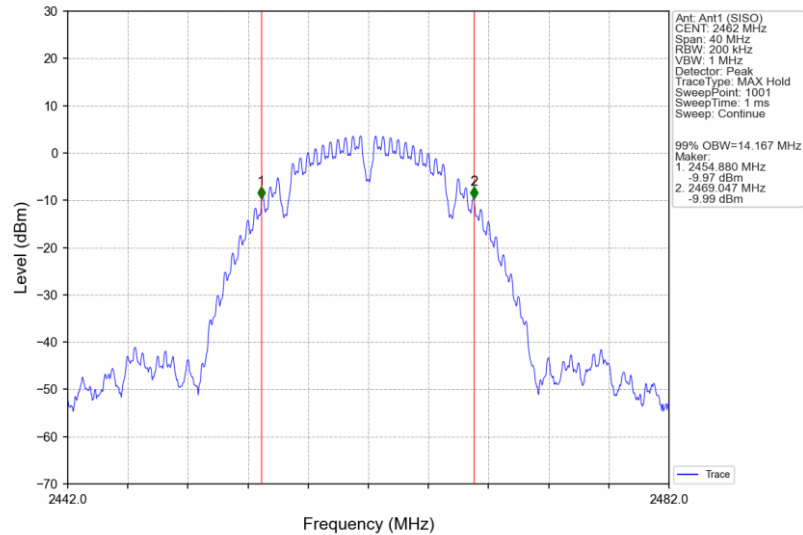
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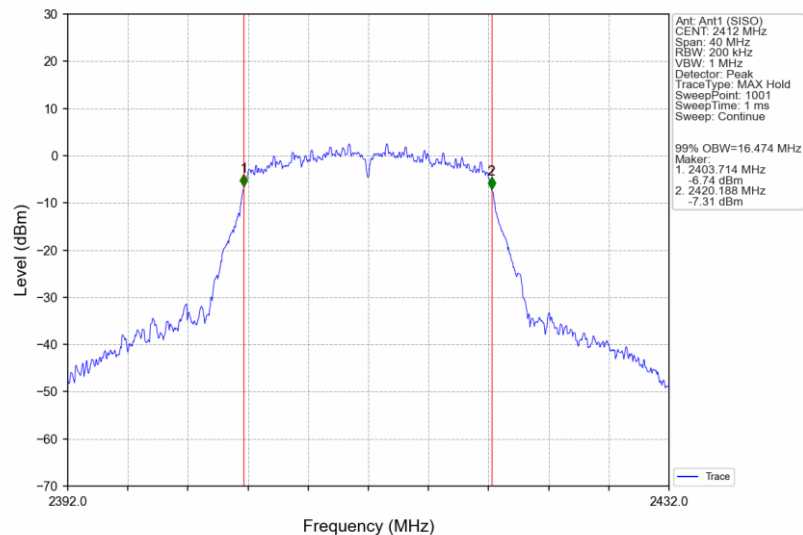
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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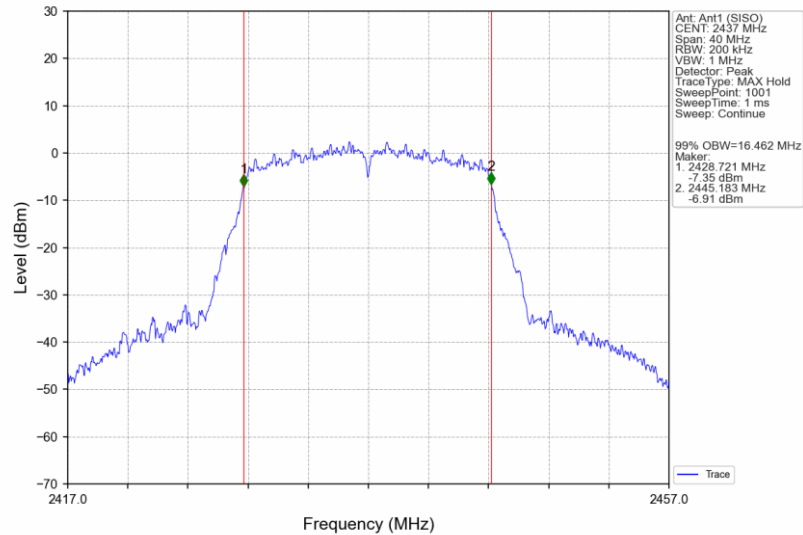
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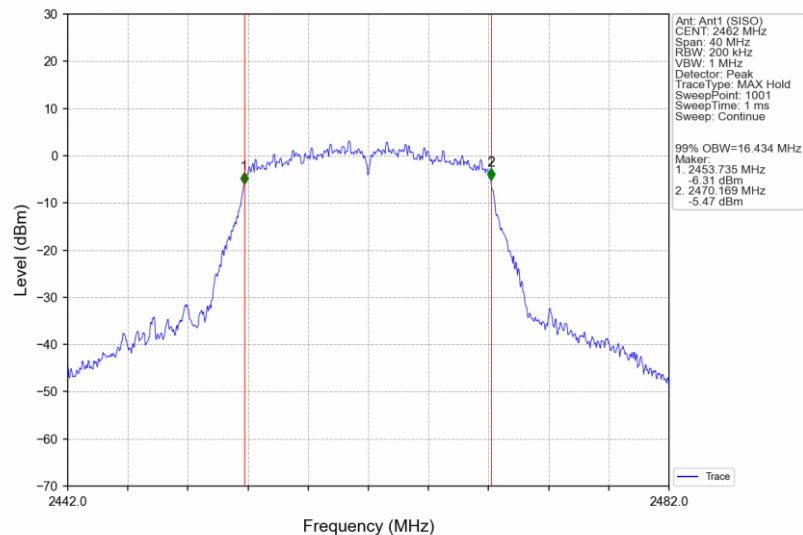
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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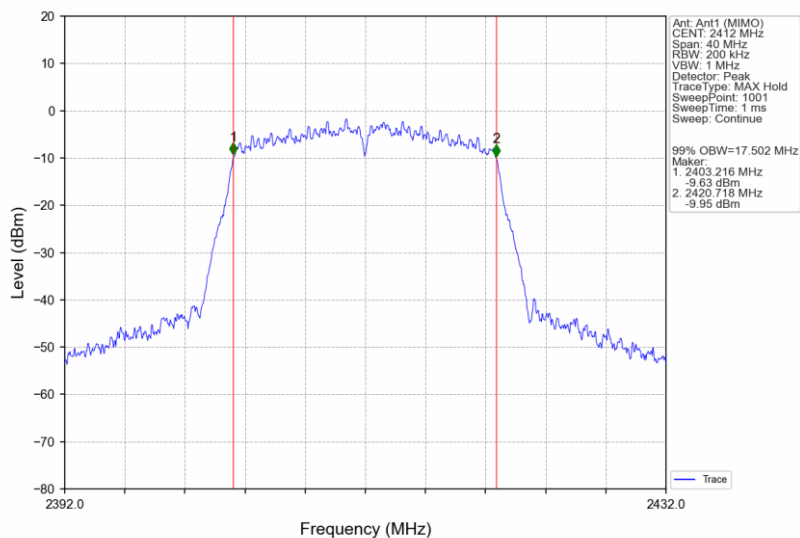
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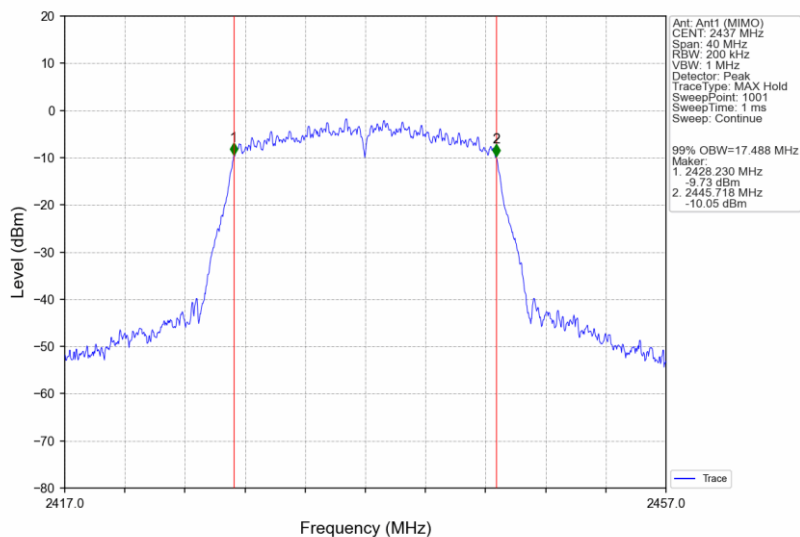
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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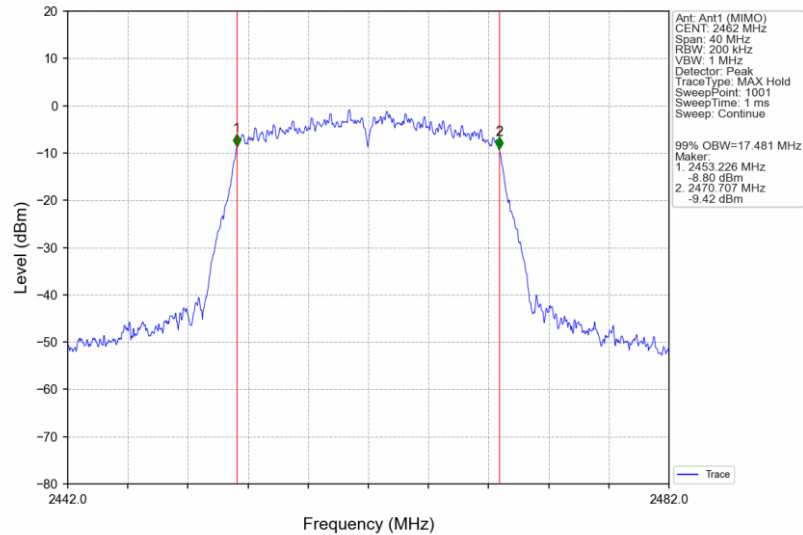
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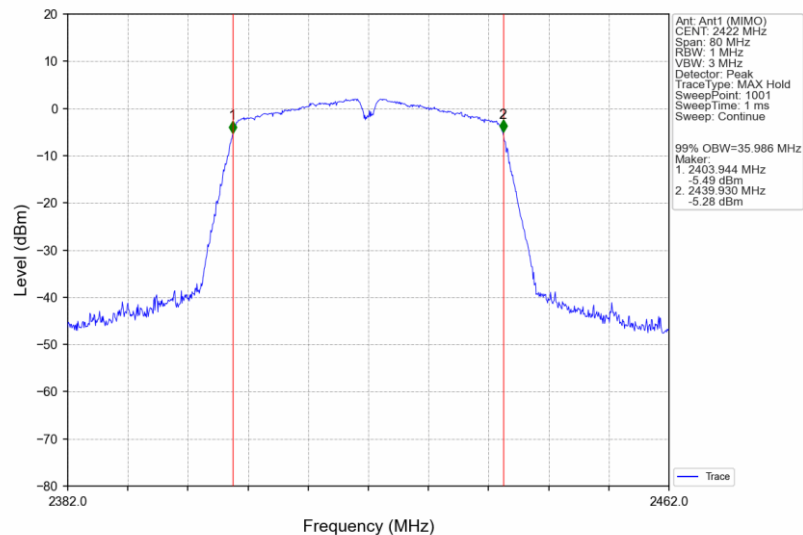
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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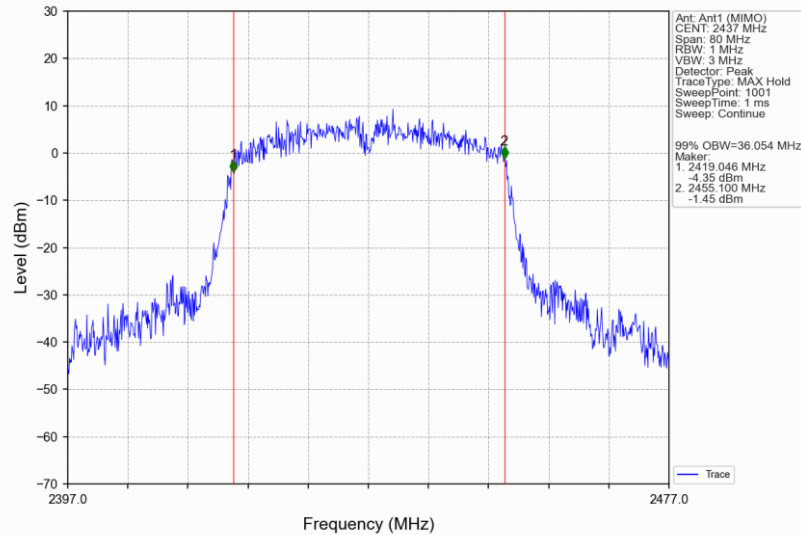
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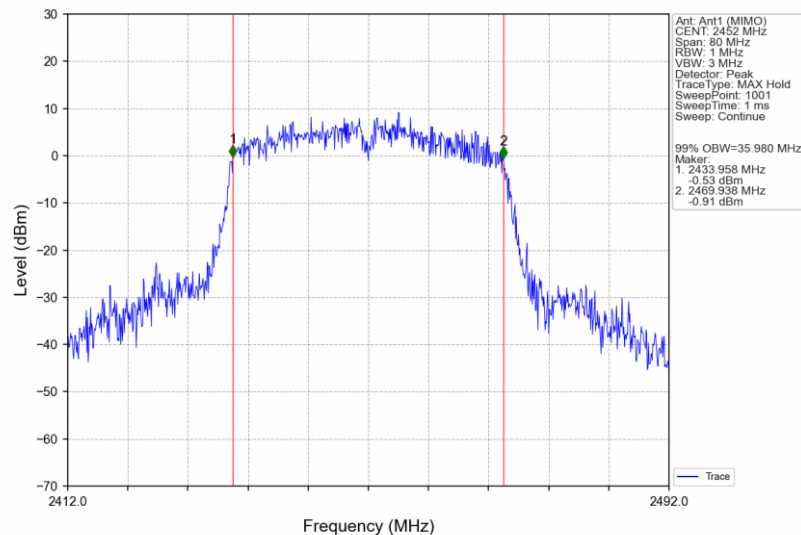
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV

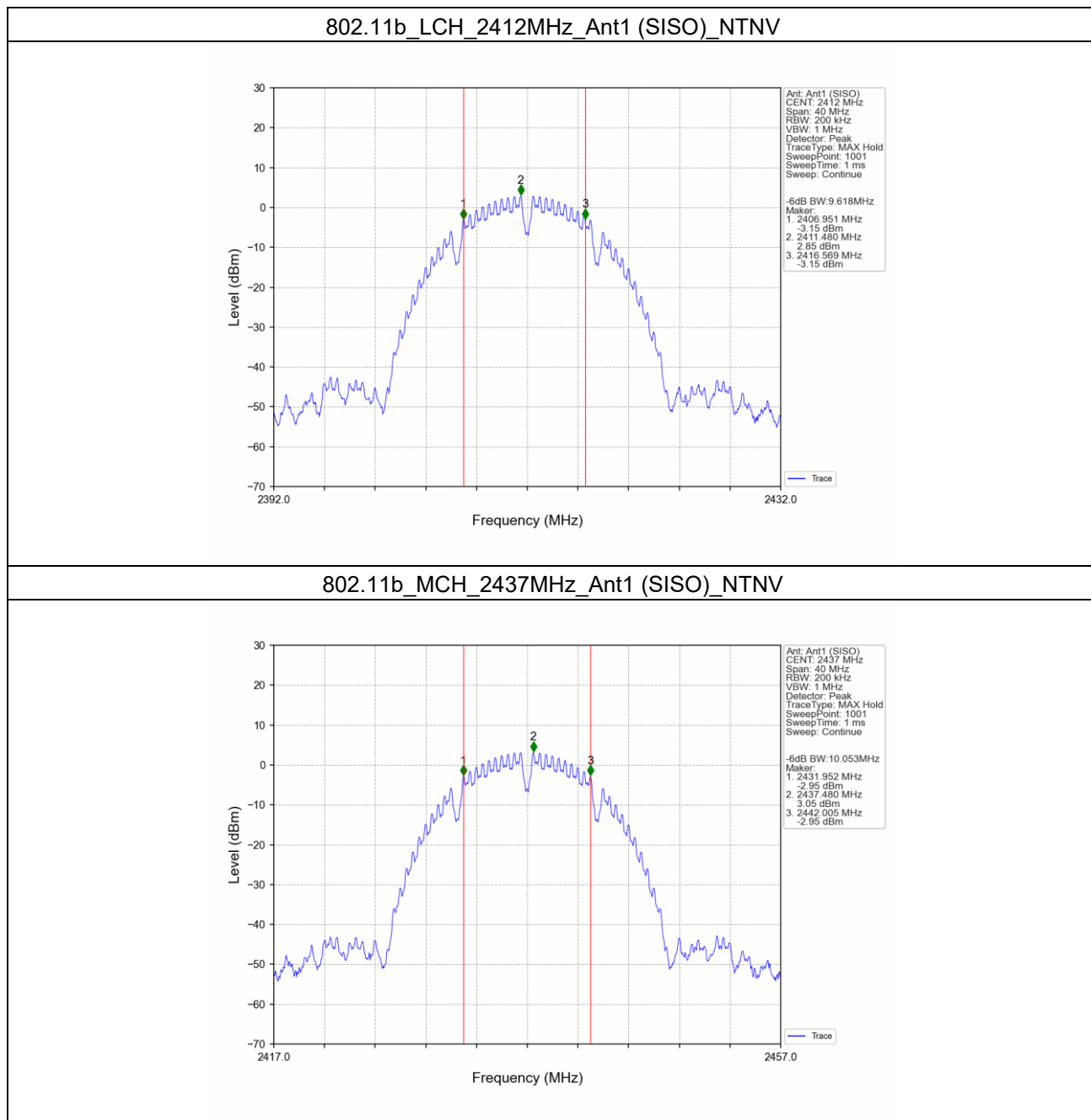


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### 2.2.2 6dB BW



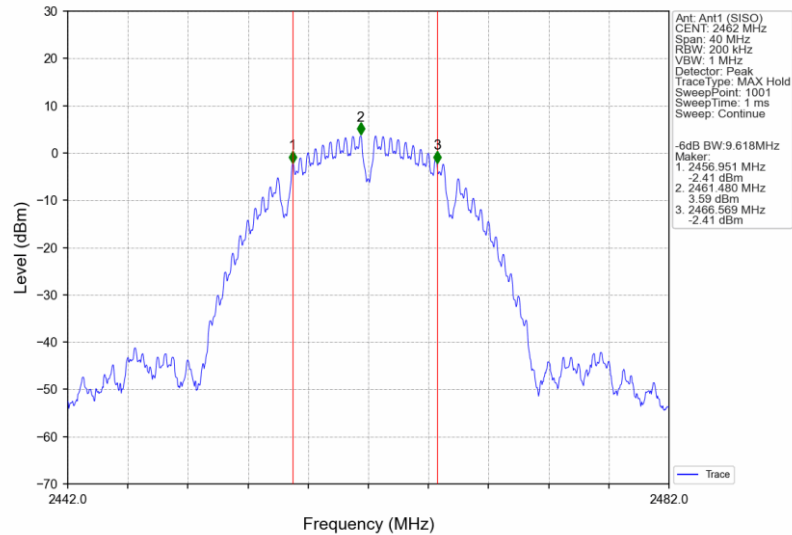
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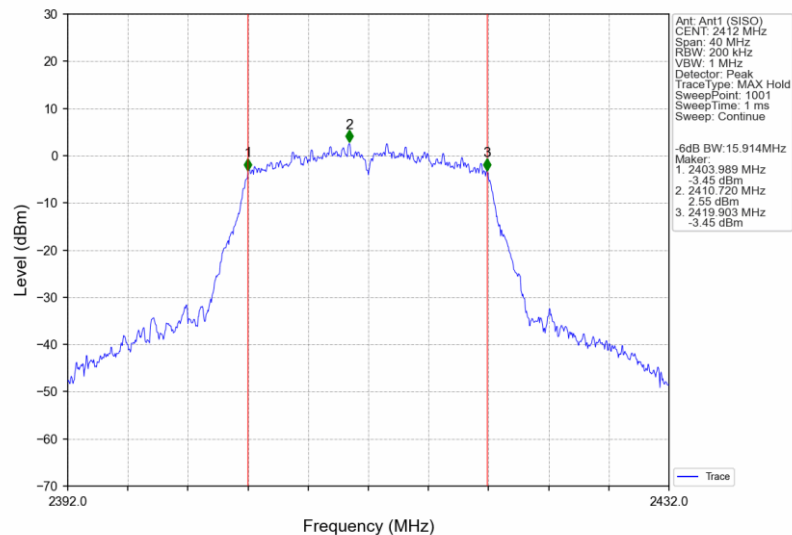
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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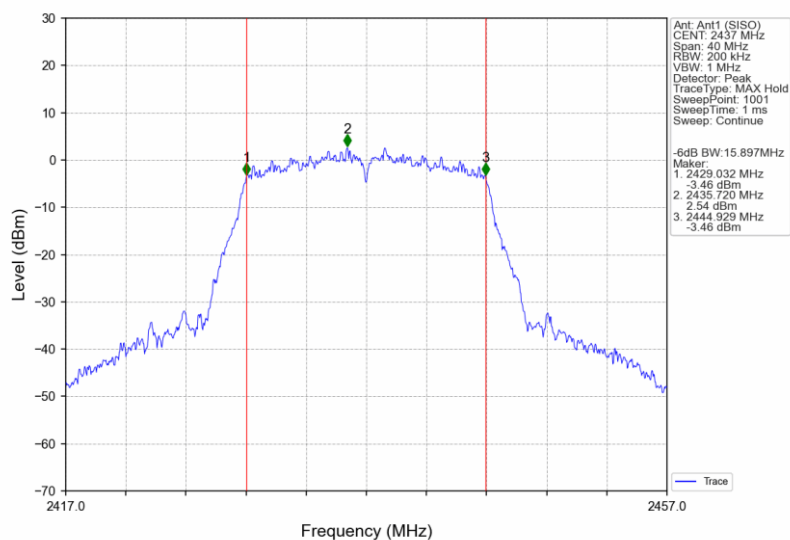
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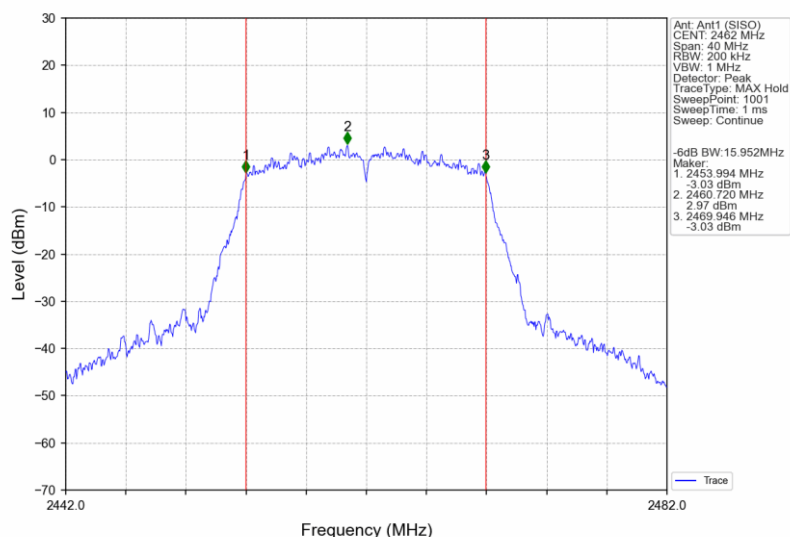
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

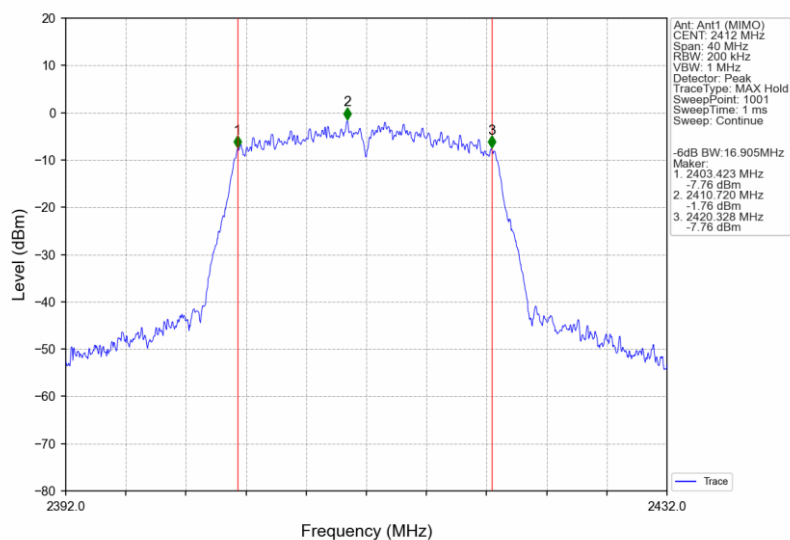


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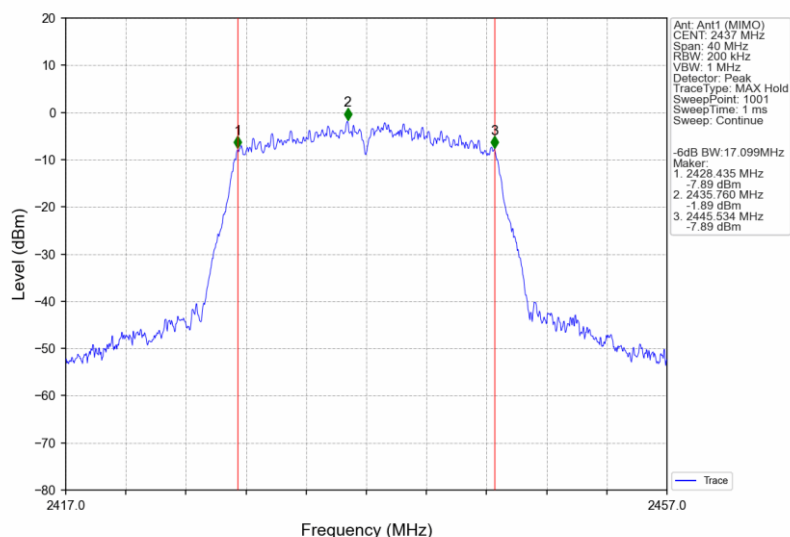
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



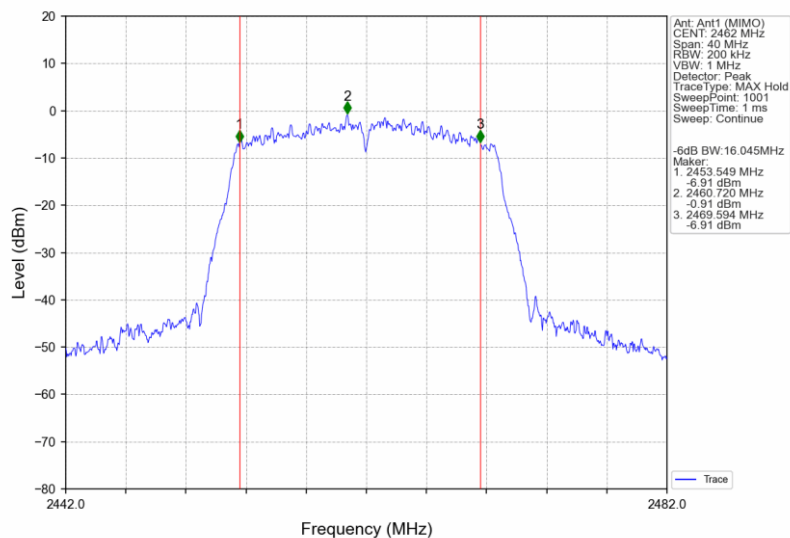
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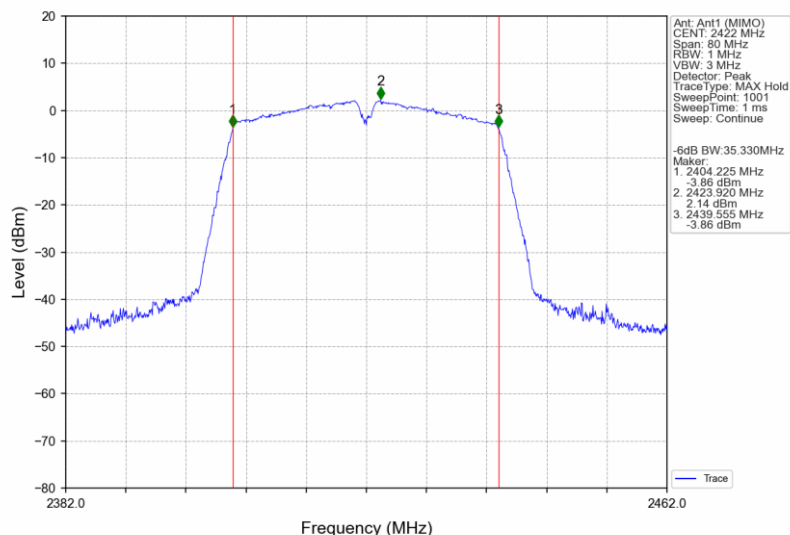
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



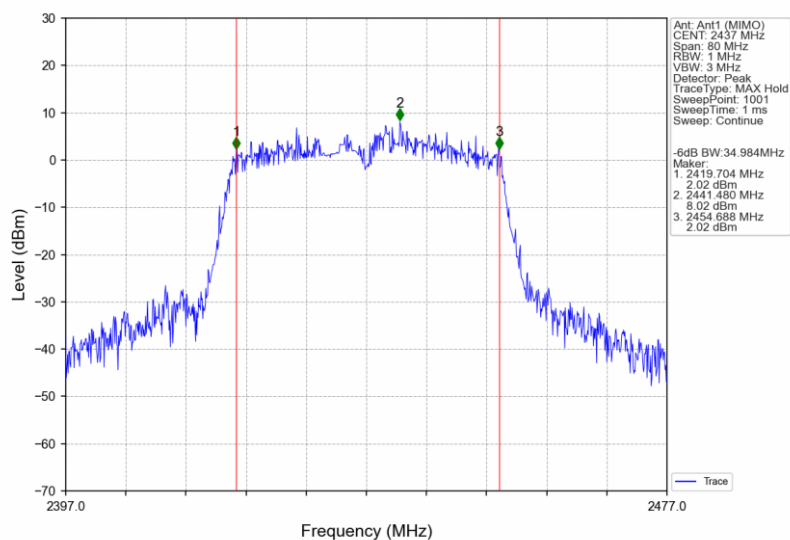
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



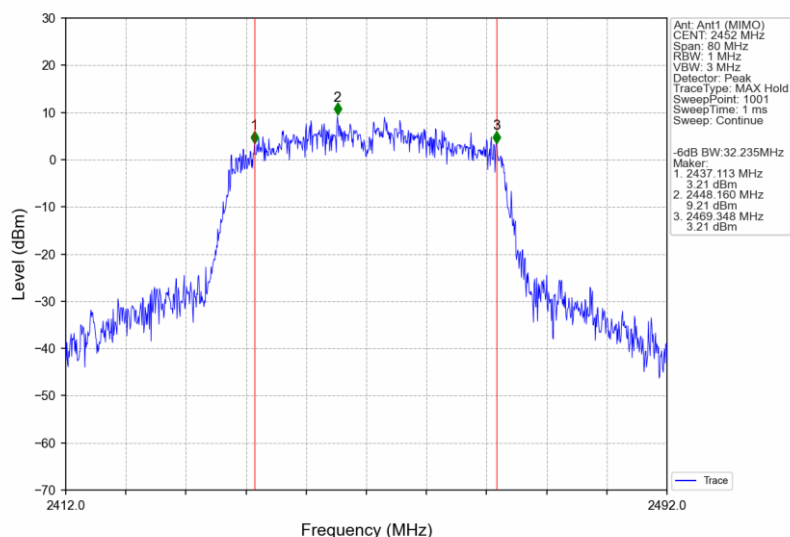
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit |         |
| 802.11b        | SISO    | 2412            | 11.18                                        | 11.84 | /     | <=30  | Pass    |
|                |         | 2437            | 11.29                                        | 11.41 | /     | <=30  | Pass    |
|                |         | 2462            | 11.93                                        | 12.06 | /     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 11.69                                        | 12.26 | /     | <=30  | Pass    |
|                |         | 2437            | 11.69                                        | 11.79 | /     | <=30  | Pass    |
|                |         | 2462            | 12.33                                        | 12.41 | /     | <=30  | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 7.19                                         | 8.06  | 10.66 | <=30  | Pass    |
|                |         | 2437            | 7.24                                         | 7.62  | 10.44 | <=30  | Pass    |
|                |         | 2462            | 7.97                                         | 8.29  | 11.14 | <=30  | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 7.43                                         | 8.09  | 10.78 | <=30  | Pass    |
|                |         | 2437            | 7.70                                         | 7.56  | 10.64 | <=30  | Pass    |
|                |         | 2452            | 7.44                                         | 7.74  | 10.60 | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;  
Note2: Directional Gain: 3dBi



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### 4. Maximum Power Spectral Density

#### 4.1 Test Result

##### 4.1.1 PSD

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm) |                |                |                 | Verdict |
|----------------|---------|-----------------|-------------------|----------------|----------------|-----------------|---------|
|                |         |                 | ANT1              | ANT2           | MIMO           | Limit(dBm/3kHz) |         |
| 802.11b        | SISO    | 2412            | -18.86dBm/3kHz    | -16.47dBm/3kHz | /              | <=8             | Pass    |
|                |         | 2437            | -16.17dBm/3kHz    | -16.21dBm/3kHz | /              | <=8             | Pass    |
|                |         | 2462            | -18.30dBm/3kHz    | -19.54dBm/3kHz | /              | <=8             | Pass    |
| 802.11g        | SISO    | 2412            | -18.98dBm/3kHz    | -18.87dBm/3kHz | /              | <=8             | Pass    |
|                |         | 2437            | -19.11dBm/3kHz    | -19.36dBm/3kHz | /              | <=8             | Pass    |
|                |         | 2462            | -18.36dBm/3kHz    | -18.08dBm/3kHz | /              | <=8             | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | -24.13dBm/3kHz    | -23.14dBm/3kHz | -20.84dBm/3kHz | <=8             | Pass    |
|                |         | 2437            | -24.20dBm/3kHz    | -23.16dBm/3kHz | -21.33dBm/3kHz | <=8             | Pass    |
|                |         | 2462            | -23.08dBm/3kHz    | -22.49dBm/3kHz | -20.18dBm/3kHz | <=8             | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | -24.51dBm/3kHz    | -22.59dBm/3kHz | -21.63dBm/3kHz | <=8             | Pass    |
|                |         | 2437            | -19.16dBm/3kHz    | -25.12dBm/3kHz | -18.69dBm/3kHz | <=8             | Pass    |
|                |         | 2452            | -19.83dBm/3kHz    | -24.56dBm/3kHz | -19.27dBm/3kHz | <=8             | Pass    |

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;  
Note2: Directional Gain: 6dBi



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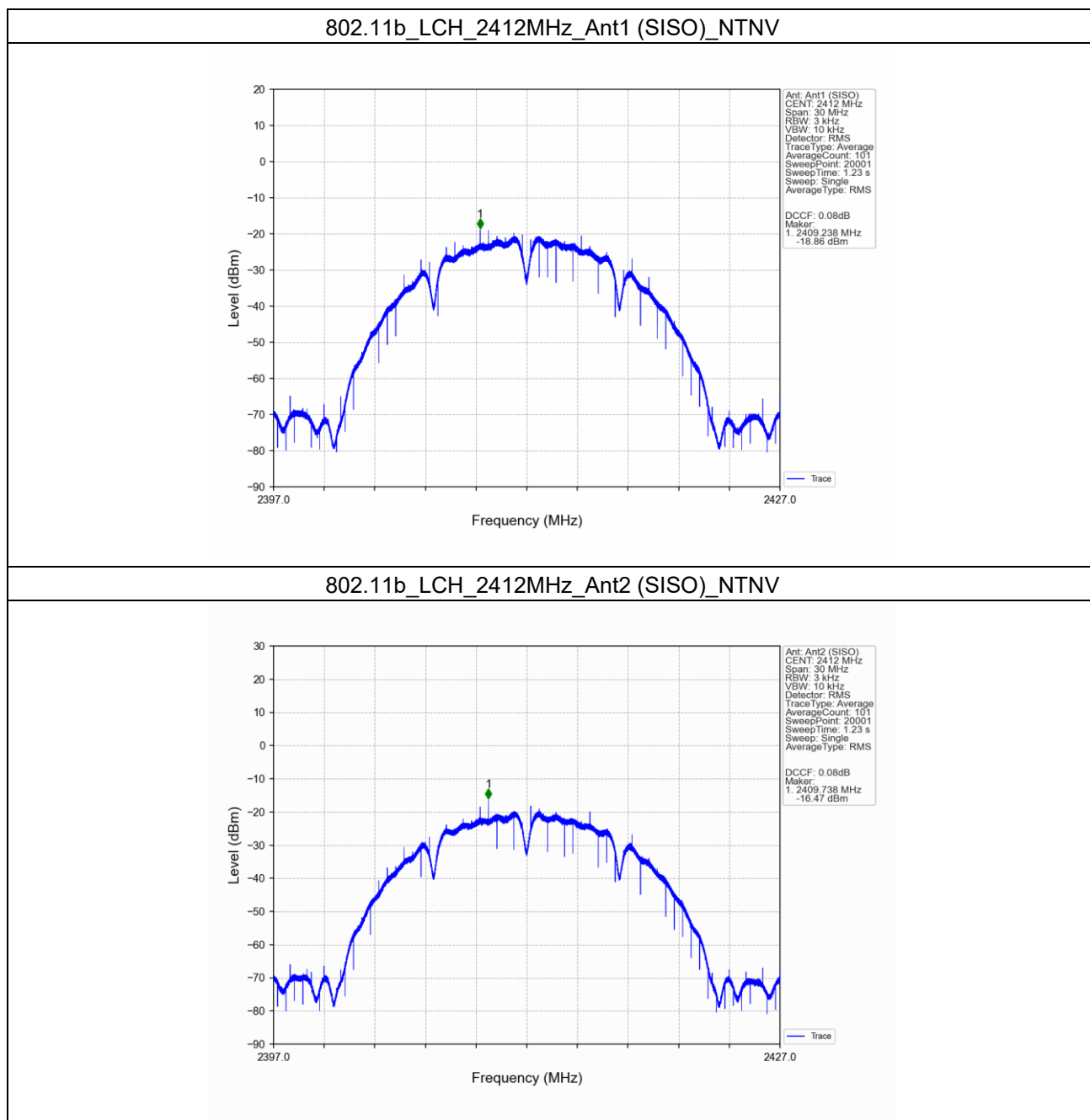
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### 4.2 Test Graph

#### 4.2.1 PSD



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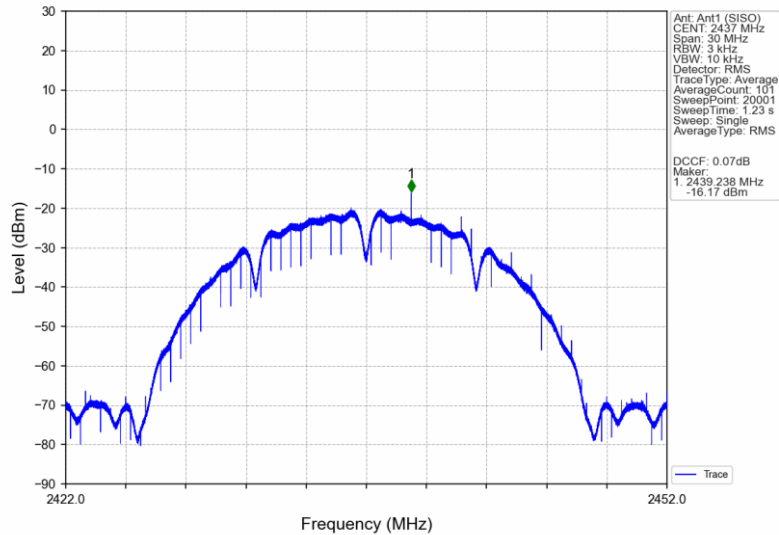
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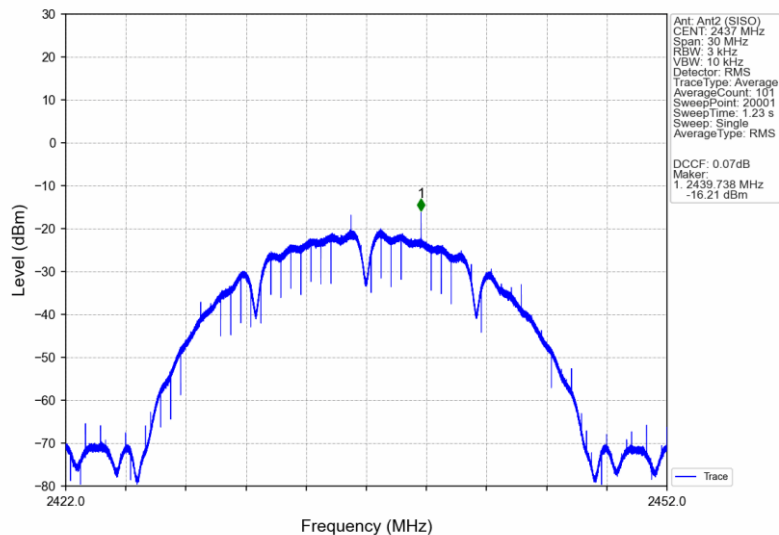
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



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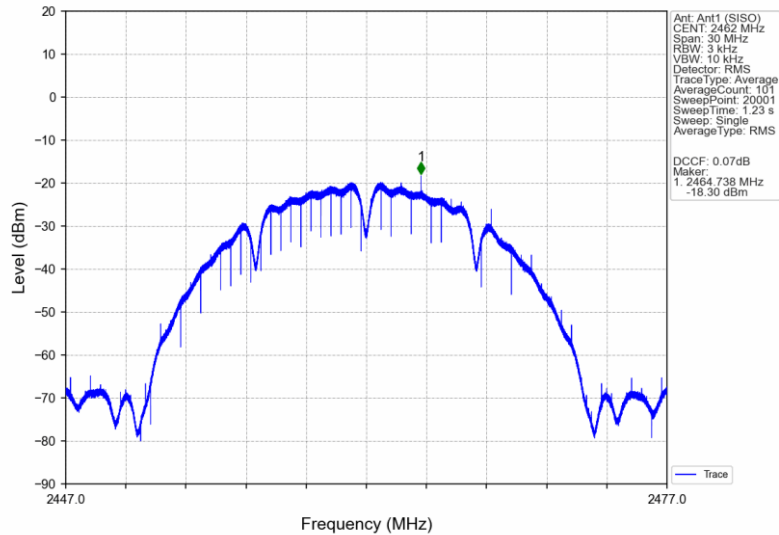
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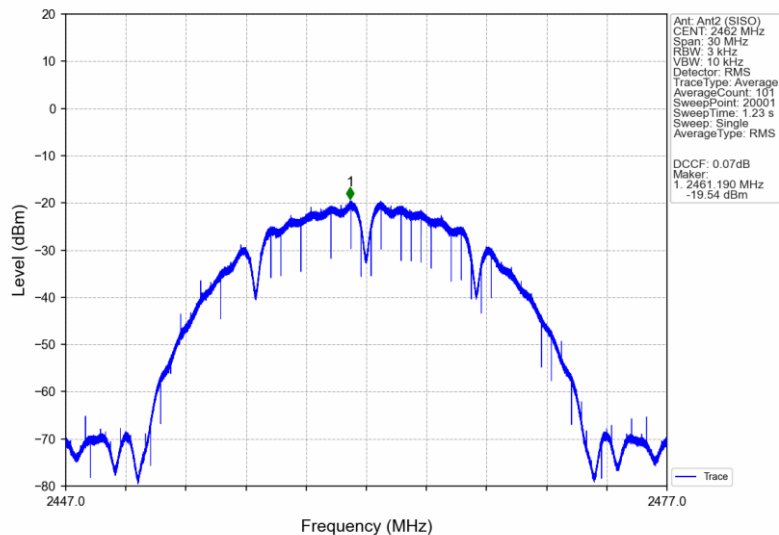
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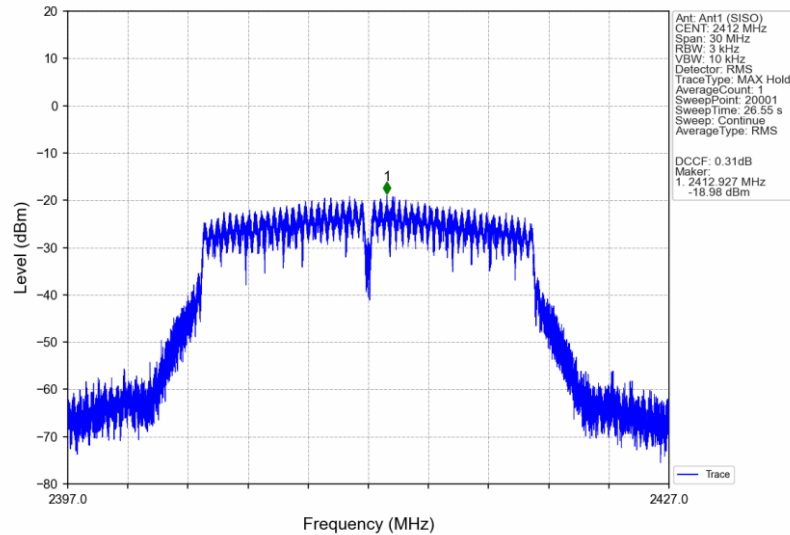
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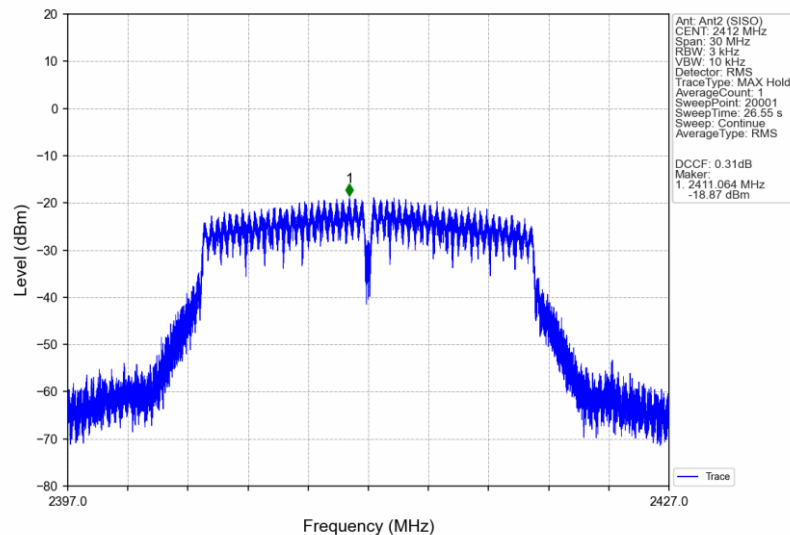
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