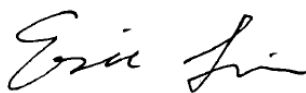


## TEST REPORT

**Application No.:** KSCR2210001890AT  
**FCC ID:** SVNDH-DB86I  
**Applicant:** Zhejiang Dahua Vision Technology Co., Ltd  
**Address of Applicant:** No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China  
**Manufacturer:** Zhejiang Dahua Vision Technology Co., Ltd  
**Address of Manufacturer:** No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China  
**Equipment Under Test (EUT):**  
**EUT Name:** Doorbell  
**Model No.:** DH-DB86I-USA; DH-DB86I-CAN; DB86I-USA; DB86I-CAN; DB86I ♣  
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2022-10-10  
**Date of Test:** 2022-10-12 to 2022-10-18  
**Date of Issue:** 2022-10-20

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

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



Eric Lin  
Laboratory Manager



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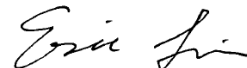
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2022-10-20 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                                                                                     |  |
|--------------------------|--|-------------------------------------------------------------------------------------|--|
| Authorized for issue by: |  |                                                                                     |  |
|                          |  |    |  |
|                          |  | Eric Liu /Project Engineer                                                          |  |
|                          |  |  |  |
|                          |  | Eric Lin /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 (2013) Section 6.2       | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Conducted Peak Output Power                           |                                  | ANSI C63.10 (2013) Section 11.9.2    | 47 CFR Part 15, Subpart C 15.247(b)(3)    | Pass   |
| Minimum 6dB Bandwidth                                 |                                  | ANSI C63.10 (2013) Section 11.8.1    | 47 CFR Part 15, Subpart C 15.247a(2)      | Pass   |
| Power Spectrum Density                                |                                  | ANSI C63.10 (2013) Section 11.10.2   | 47 CFR Part 15, Subpart C 15.247(e)       | Pass   |
| Conducted Band Edges Measurement                      |                                  | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Conducted Spurious Emissions                          |                                  | ANSI C63.10 (2013) Section 11.11     | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Radiated Emissions which fall in the restricted bands |                                  | ANSI C63.10 (2013) Section 6.10.5    | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Below 1GHz                |                                  | ANSI C63.10 (2013) Section 6.4,6.5   | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz                |                                  | ANSI C63.10 (2013) Section 6.6       | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |

### Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the Identical in electrical and electronic characters. Only the model DH-DB86I-USA was tested since their differences were the model number and appearance.



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## 4 General Information

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

|                      |                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:        | DC 3.7V by rechargeable lithium battery charged by 16-24 VAC or DC 5V 2A by USB port<br>Battery Model: 1S1P 652023P<br>Rated Voltage: 3.7V<br>Capacity: 0.2Ah<br>Energy: 0.74Wh<br>Charging Voltage: 4.2V |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz                                                                                                                                   |
| Modulation Type:     | 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)                                                                                                                              |
| Number of Channels:  | 802.11b/g/n(HT20):11;802.11n(HT40):7                                                                                                                                                                      |
| Channel Spacing:     | 5MHz                                                                                                                                                                                                      |
| Antenna Type:        | FPC antenna                                                                                                                                                                                               |
| Antenna Gain:        | Antenna 1:1.68dBi; (Provided by the manufacturer)<br>Antenna 2:3.42dBi, (Provided by the manufacturer)<br>Directional gain:5.65dBi                                                                        |

### 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Notebook    | LENOVO       | K27       | EB24537645 |
| Adapter     | /            | A12-3A-10 | /          |



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## 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $8.4 \times 10^{-8}$    |
| 2   | Timeout                         | 2s                      |
| 3   | Duty Cycle                      | 0.37%                   |
| 4   | Occupied Bandwidth              | 3%                      |
| 5   | RF Conducted Power              | 0.6dB                   |
| 6   | RF Power Density                | 2.9dB                   |
| 7   | Conducted Spurious Emissions    | 0.75dB                  |
| 8   | RF Radiated Power               | 5.2dB (Below 1GHz)      |
|     |                                 | 5.9dB (Above 1GHz)      |
| 9   | Radiated Spurious Emission Test | 4.2dB (Below 30MHz)     |
|     |                                 | 4.5dB (30MHz-1GHz)      |
|     |                                 | 5.1dB (1GHz-18GHz)      |
|     |                                 | 5.4dB (Above 18GHz)     |
| 10  | Temperature Test                | 1°C                     |
| 11  | Humidity Test                   | 3%                      |
| 12  | Supply Voltages                 | 1.5%                    |
| 13  | Time                            | 3%                      |

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



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## Compliance Certification Services (Kunshan) Inc.

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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

### 4.5 Test Facility

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

#### • CNAS

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| Item                                                        | Equipment                            | Manufacturer       | Model        | Inventory No      | Cal Date   | Cal. Due Date |
|-------------------------------------------------------------|--------------------------------------|--------------------|--------------|-------------------|------------|---------------|
| <b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b> |                                      |                    |              |                   |            |               |
| 1                                                           | EMI Test Receive                     | R&S                | ESCI         | KS301101          | 01/22/2022 | 01/21/2023    |
| 2                                                           | LISN                                 | R&S                | ENV216       | KS301197          | 01/22/2022 | 01/21/2023    |
| 3                                                           | LISN                                 | Schwarzbeck        | NNLK 8129    | KS301091          | 01/22/2022 | 01/21/2023    |
| 4                                                           | Pulse Limiter                        | R&S                | ESH3-Z2      | KUS1902E001       | 01/22/2022 | 01/21/2023    |
| 5                                                           | CE test Cable                        | Thermax            | /            | CZ301102          | 11/14/2021 | 11/13/2022    |
| 6                                                           | Test Software                        | Farad              | EZ-EMC       | /                 | N.C.R      | N.C.R         |
| <b>RF Conducted Test</b>                                    |                                      |                    |              |                   |            |               |
| 1                                                           | Spectrum Analyzer                    | Keysight           | N9020A       | KUS1911E004-2     | 08/22/2022 | 08/21/2023    |
| 2                                                           | Spectrum Analyzer                    | Keysight           | N9020A       | KUS2001M001-2     | 08/22/2022 | 08/21/2023    |
| 3                                                           | Spectrum Analyzer                    | Keysight           | N9030B       | KSEM021-1         | 01/22/2022 | 01/21/2023    |
| 4                                                           | Signal Generator                     | R&S                | SMW200A      | KSEM020-1         | 08/22/2022 | 08/21/2023    |
| 5                                                           | Signal Generator                     | Agilent            | N5182A       | KUS2001M001-1     | 08/22/2022 | 08/21/2023    |
| 6                                                           | Radio Communication Test Station     | Anritsu            | MT8000A      | KSEM001-1         | 08/22/2022 | 08/21/2023    |
| 7                                                           | Radio Communication Analyzer         | Anritsu            | MT8821C      | KSEM002-1         | 04/01/2022 | 03/31/2023    |
| 8                                                           | Universal Radio Communication Tester | R&S                | CMW500       | KUS1911E004-1     | 08/22/2022 | 08/21/2023    |
| 9                                                           | Switcher                             | CCSRF              | FY562        | KUS2001M001-3     | 08/22/2022 | 08/21/2023    |
| 10                                                          | AC Power Source                      | EXTECH             | 6605         | KS301178          | N.C.R      | N.C.R         |
| 11                                                          | DC Power Supply                      | Aglient            | E3632A       | KS301180          | N.C.R      | N.C.R         |
| 12                                                          | Conducted Test Cable                 | Thermax            | RF01-RF04    | CZ301111-CZ301120 | 01/16/2022 | 01/15/2023    |
| 13                                                          | Temp. / Humidity Chamber             | TERCHY             | MHK-120AK    | KS301190          | 04/01/2021 | 03/31/2023    |
| 14                                                          | Temperature & Humidity Recorder      | Renke Control      | RS-WS-N01-6J | KSEM024-5         | 04/14/2022 | 04/13/2023    |
| 15                                                          | Software                             | BST                | TST-PASS     | /                 | N/A        | N/A           |
| <b>RF Radiated Test</b>                                     |                                      |                    |              |                   |            |               |
| 1                                                           | Spectrum Analyzer                    | R&S                | FSV40        | KUS1806E003       | 08/22/2022 | 08/21/2023    |
| 2                                                           | Universal Radio Communication Tester | R&S                | CMW500       | KSEM009-1         | 04/01/2022 | 03/31/2023    |
| 3                                                           | Signal Generator                     | Agilent            | E8257C       | KS301066          | 08/22/2022 | 08/21/2023    |
| 4                                                           | Loop Antenna                         | COM-POWER          | AL-130R      | KUS1806E001       | 04/13/2021 | 04/12/2023    |
| 5                                                           | Bilog Antenna                        | TESEQ              | CBL 6112D    | KUS1806E005       | 06/29/2021 | 06/28/2023    |
| 6                                                           | Bilog Antenna                        | SCHWARZBECK        | VULB9160     | CZ301016          | 04/13/2021 | 04/12/2024    |
| 7                                                           | Horn-antenna(1-18GHz)                | Schwarzbeck        | BBHA9120D    | KS301079          | 04/02/2022 | 04/01/2024    |
| 8                                                           | Horn-antenna(1-18GHz)                | ETS-LINDGREN       | 3117         | KS301186          | 02/22/2021 | 02/21/2023    |
| 9                                                           | Horn Antenna(18-40GHz)               | Schwarzbeck        | BBHA9170     | CZ301058          | 03/17/2022 | 03/16/2023    |
| 10                                                          | Amplifier(30MHz~18GHz)               | PANSHAN TECHNOLOGY | LNA:1~18G    | KSEM010-1         | 01/22/2022 | 01/21/2023    |
| 11                                                          | Amplifier(18~40GHz)                  | COM-POWER          | PAM-840A     | KUS1710E001       | 01/22/2022 | 01/21/2023    |
| 12                                                          | RE Test Cable                        | REBES MICROWAVE    | /            | CZ301097          | 11/14/2021 | 11/13/2022    |
| 13                                                          | Temperature & Humidity Recorder      | Renke Control      | RS-WS-N01-6J | KSEM024-4         | 01/04/2022 | 31/03/2023    |
| 14                                                          | Software                             | Faratronic         | EZ-EMC-v 3A1 | /                 | N/A        | N/A           |



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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:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna 1 is FPC antenna and antenna 2 is FPC antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 1.68dBi. and antenna 2 is 3.42dBi.

Antenna location: Refer to internal photo.



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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 (2013) Section 6.2

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: 34.3 °C Humidity: 39.7 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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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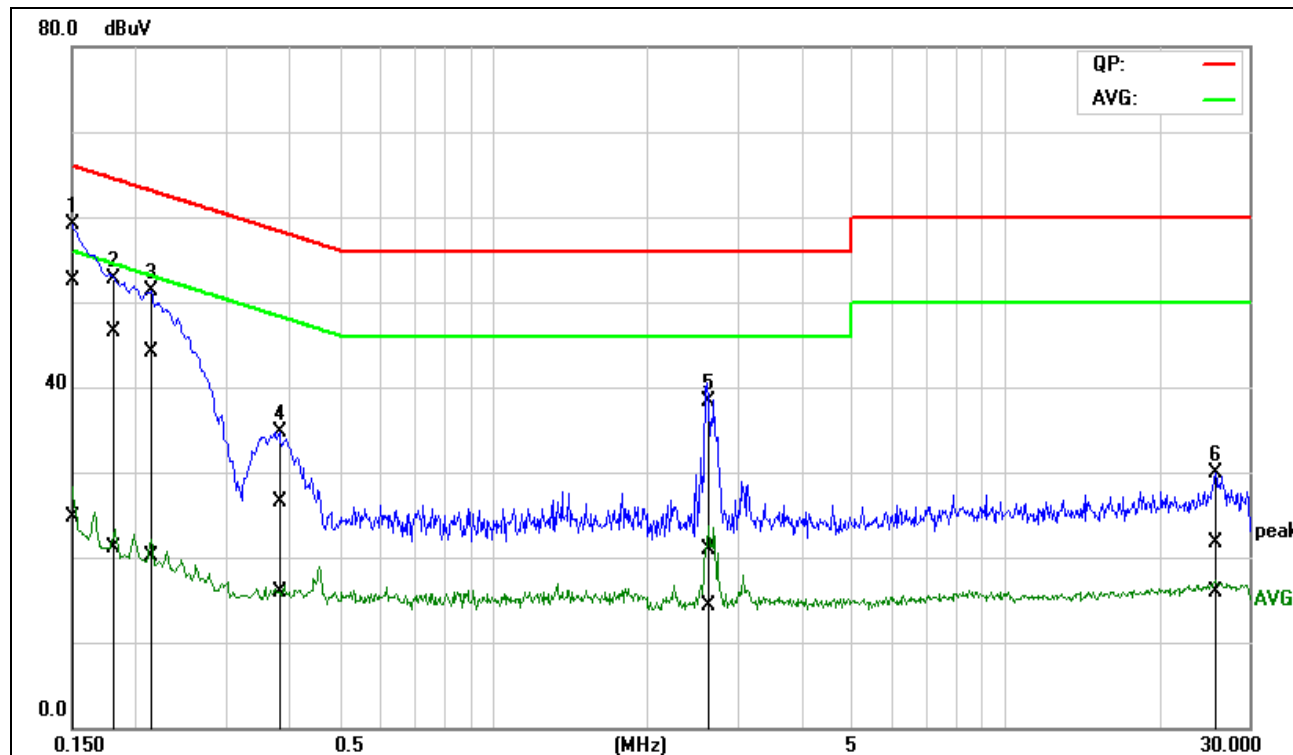
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Test Mode: 00; Line: Live line



| No. | Frequency<br>(MHz) | QuasiPeak<br>reading<br>(dBuV) | Average<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | QuasiPeak<br>result<br>(dBuV) | Average<br>result<br>(dBuV) | QuasiPeak<br>limit<br>(dBuV) | Average<br>limit<br>(dBuV) | QuasiPeak<br>margin<br>(dB) | Average<br>margin<br>(dB) | Remark |
|-----|--------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|--------|
| 1*  | 0.1500             | 32.98                          | 5.20                         | 19.50                        | 52.48                         | 24.70                       | 66.00                        | 56.00                      | -13.52                      | -31.30                    | Pass   |
| 2   | 0.1825             | 26.91                          | 1.65                         | 19.50                        | 46.41                         | 21.15                       | 64.37                        | 54.37                      | -17.96                      | -33.22                    | Pass   |
| 3   | 0.2130             | 24.65                          | 0.54                         | 19.50                        | 44.15                         | 20.04                       | 63.09                        | 53.09                      | -18.94                      | -33.05                    | Pass   |
| 4   | 0.3838             | 7.02                           | -3.70                        | 19.53                        | 26.55                         | 15.83                       | 58.20                        | 48.20                      | -31.65                      | -32.37                    | Pass   |
| 5   | 2.6364             | 1.25                           | -5.38                        | 19.68                        | 20.93                         | 14.30                       | 56.00                        | 46.00                      | -35.07                      | -31.70                    | Pass   |
| 6   | 25.7910            | 1.50                           | -4.42                        | 20.28                        | 21.78                         | 15.86                       | 60.00                        | 50.00                      | -38.22                      | -34.14                    | Pass   |



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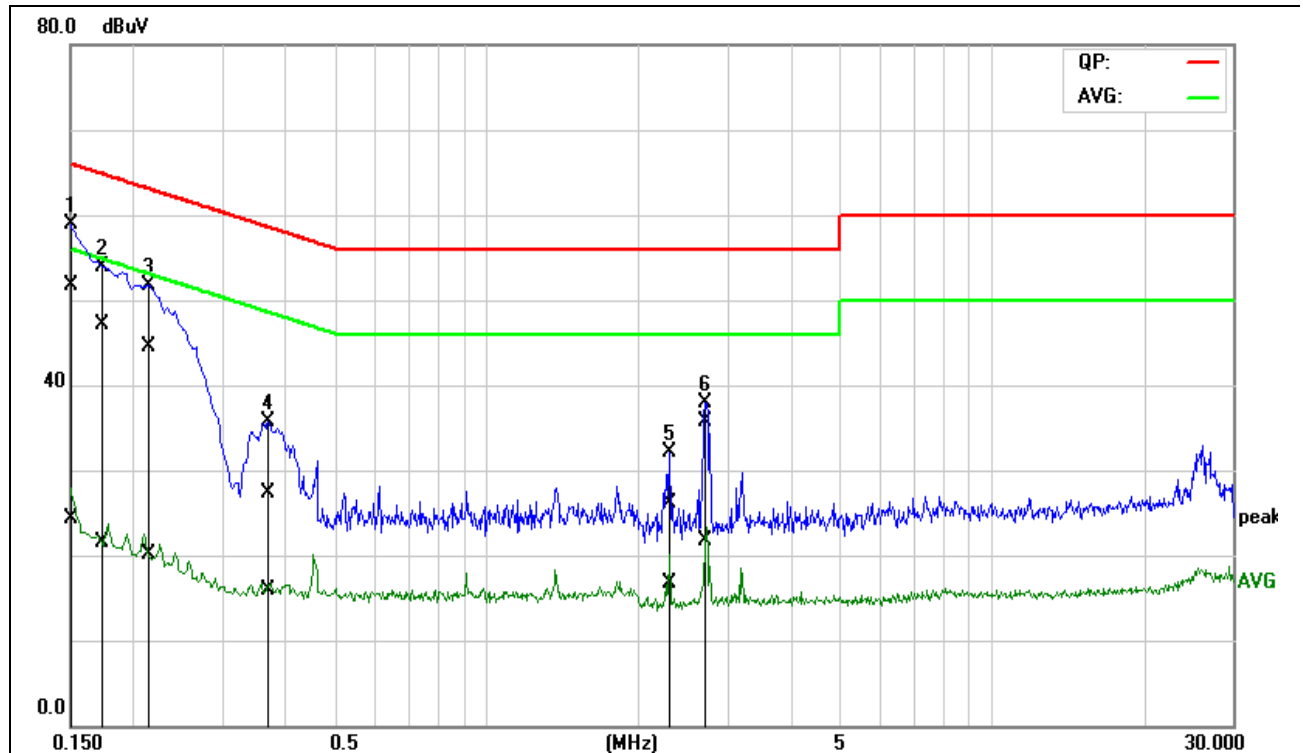
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Test Mode: 00; Line: Neutral Line



| No. | Frequency<br>(MHz) | QuasiPeak<br>reading<br>(dBuV) | Average<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | QuasiPeak<br>result<br>(dBuV) | Average<br>result<br>(dBuV) | QuasiPeak<br>limit<br>(dBuV) | Average<br>limit<br>(dBuV) | QuasiPeak<br>margin<br>(dB) | Average<br>margin<br>(dB) | Remark |
|-----|--------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|--------|
| 1*  | 0.1517             | 32.26                          | 4.76                         | 19.48                        | 51.74                         | 24.24                       | 65.91                        | 55.91                      | -14.17                      | -31.67                    | Pass   |
| 2   | 0.1748             | 27.69                          | 2.12                         | 19.48                        | 47.17                         | 21.60                       | 64.73                        | 54.73                      | -17.56                      | -33.13                    | Pass   |
| 3   | 0.2121             | 25.04                          | 0.66                         | 19.49                        | 44.53                         | 20.15                       | 63.12                        | 53.12                      | -18.59                      | -32.97                    | Pass   |
| 4   | 0.3675             | 7.75                           | -3.69                        | 19.52                        | 27.27                         | 15.83                       | 58.56                        | 48.56                      | -31.29                      | -32.73                    | Pass   |
| 5   | 2.2747             | 6.41                           | -2.94                        | 19.67                        | 26.08                         | 16.73                       | 56.00                        | 46.00                      | -29.92                      | -29.27                    | Pass   |
| 6   | 2.7238             | 15.99                          | 2.09                         | 19.69                        | 35.68                         | 21.78                       | 56.00                        | 46.00                      | -20.32                      | -24.22                    | Pass   |



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### 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

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 |

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 34.3 °C Humidity: 39.8 % RH Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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. |



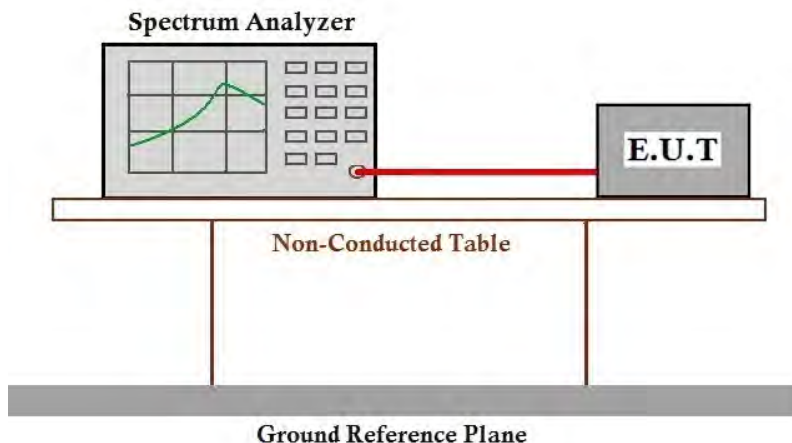
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### 7.2.3 Test Setup Diagram



### 7.2.4 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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### 7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

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

Operating Environment:

Temperature: 34.3 °C

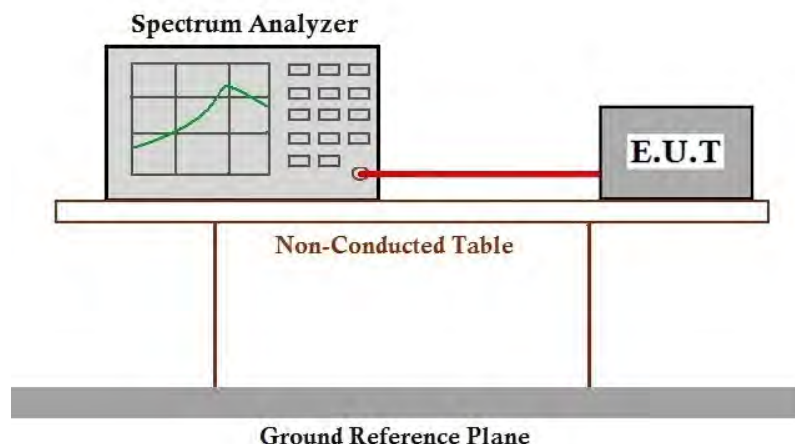
Humidity: 39.7 % RH

Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

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

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 34.3 °C

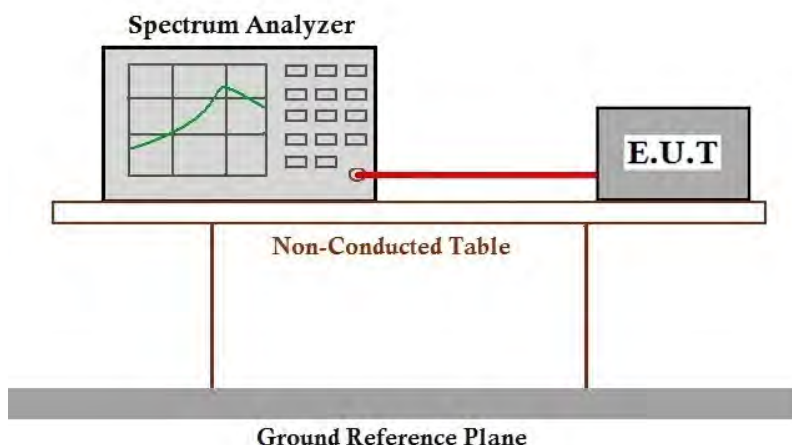
Humidity: 39.7 % RH

Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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. |

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.5 Conducted Band Edges Measurement

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

### Limit:

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

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 34.3 °C Humidity: 39.7 % RH Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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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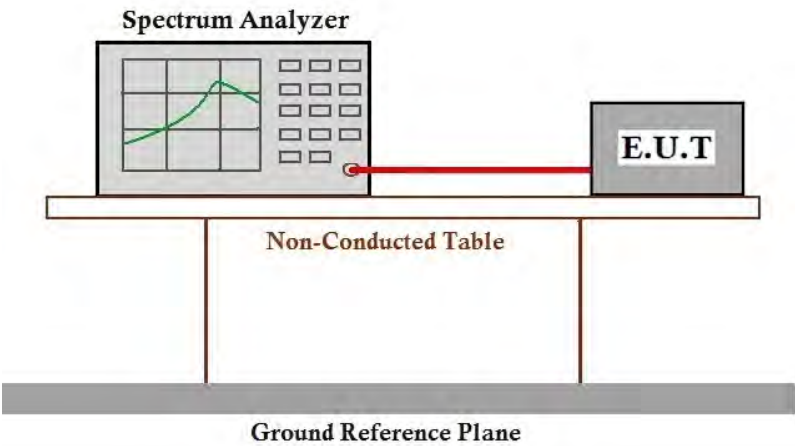
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### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 34.3 °C

Humidity: 39.7 % RH

Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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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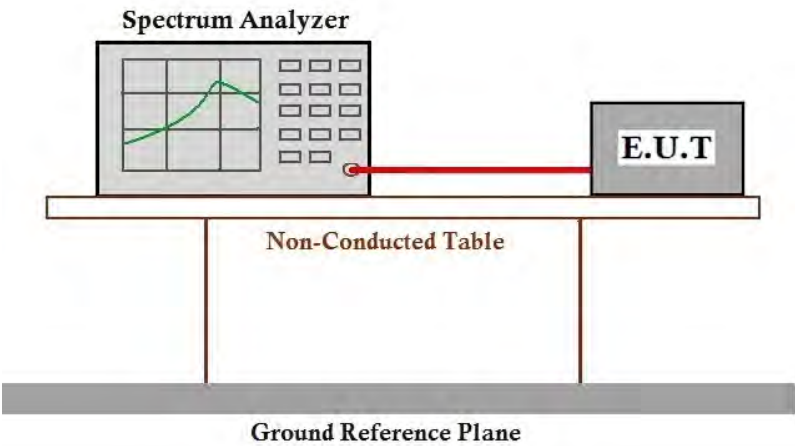
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### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

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### 7.7 Radiated Emissions which fall in the restricted bands

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

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

Limit:

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

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

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

Operating Environment:

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

#### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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. |



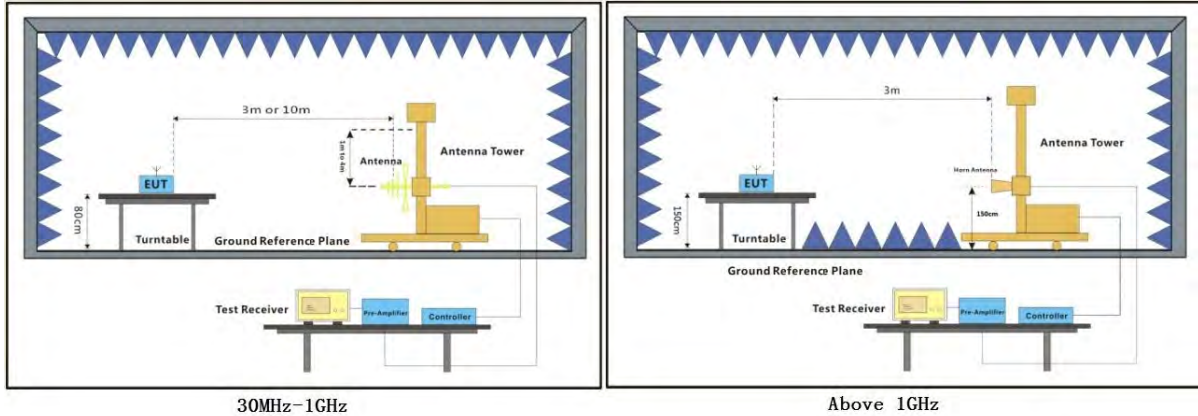
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### 7.7.3 Test Setup Diagram



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## 7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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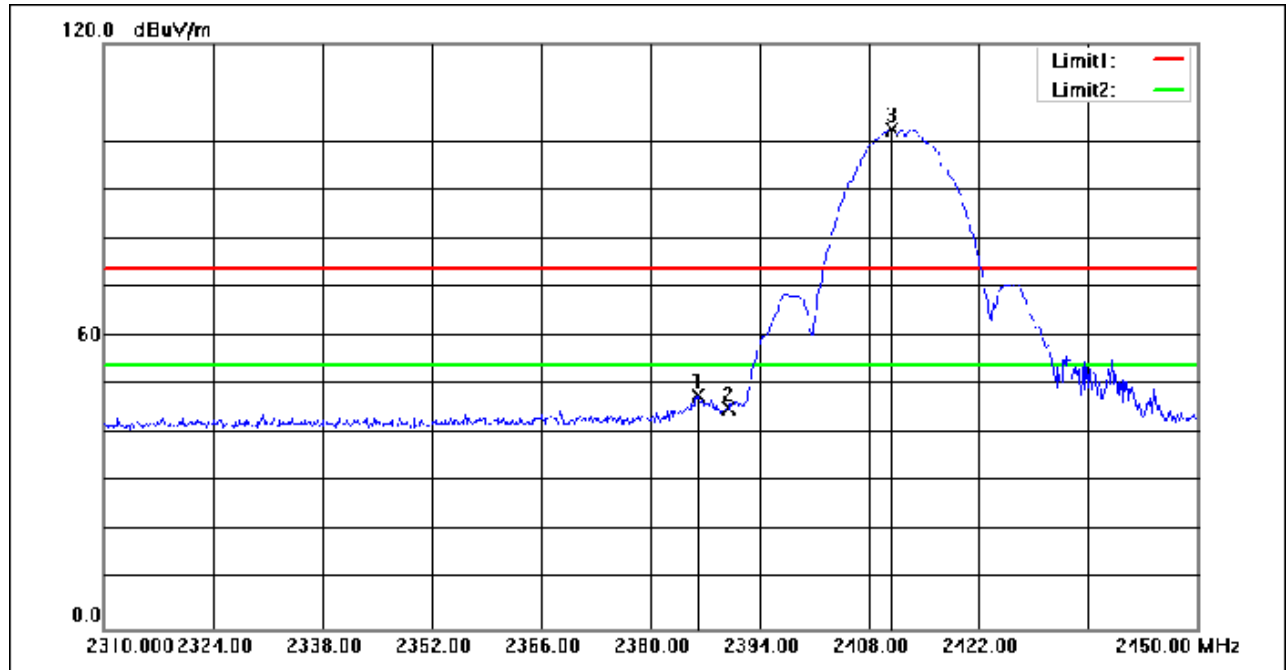
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2386.020        | 66.51          | -18.76                  | 47.75           | 74.00          | -26.25      | peak   |
| 2   | 2390.000        | 63.95          | -18.75                  | 45.20           | 74.00          | -28.80      | peak   |
| 3   | 2410.800        | 121.23         | -18.71                  | 102.52          | 74.00          | 28.52       | peak   |



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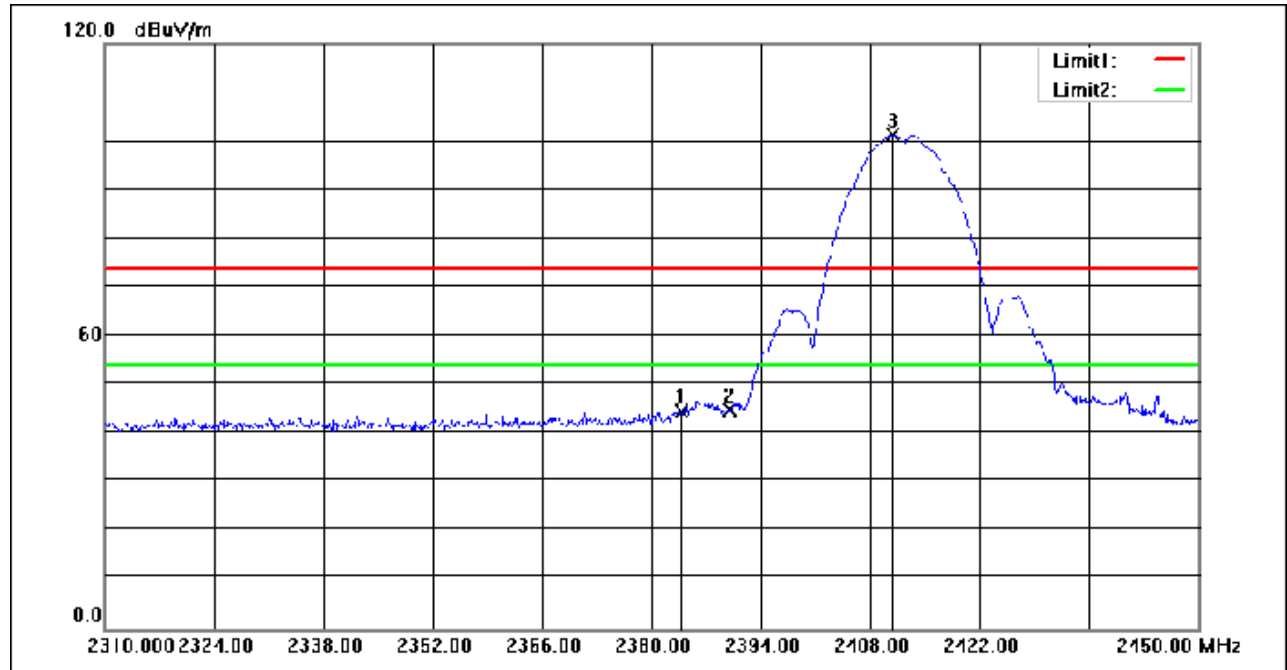
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2383.780        | 63.29          | -18.76                  | 44.53           | 74.00          | -29.47      | peak   |
| 2   | 2390.000        | 63.52          | -18.75                  | 44.77           | 74.00          | -29.23      | peak   |
| 3   | 2410.940        | 120.09         | -18.71                  | 101.38          | 74.00          | 27.38       | peak   |



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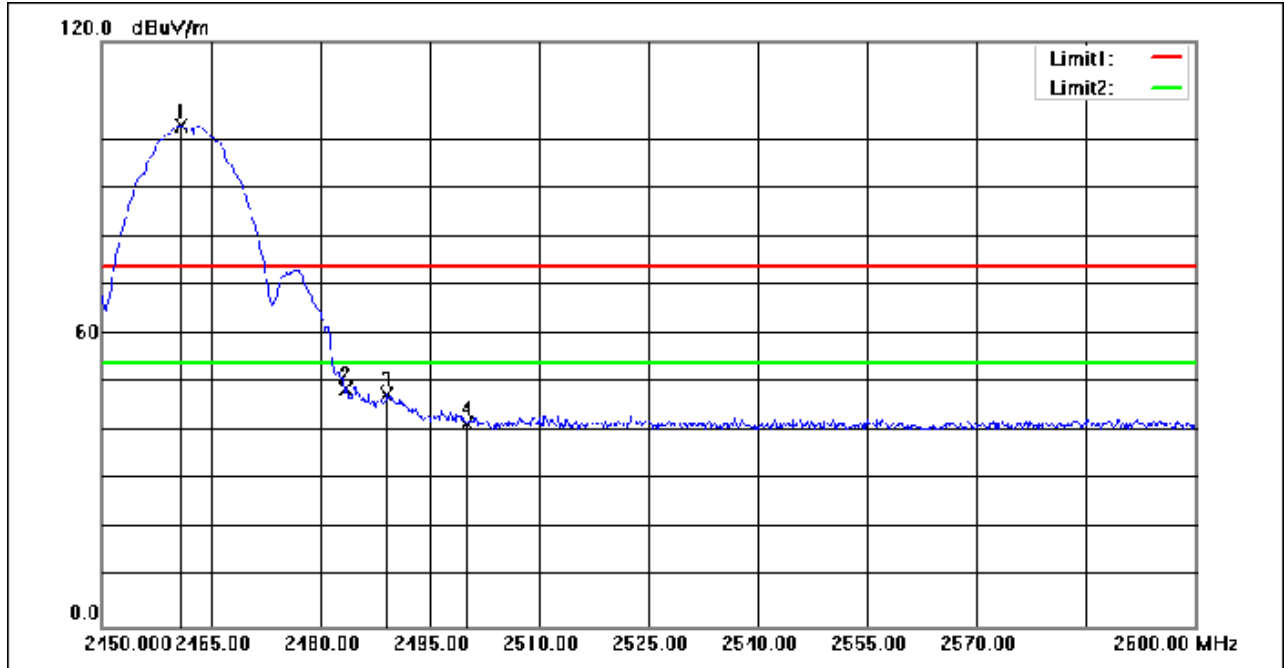
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2460.800        | 121.33         | -18.53                  | 102.80          | 74.00          | 28.80       | peak   |
| 2   | 2483.500        | 67.13          | -18.45                  | 48.68           | 74.00          | -25.32      | peak   |
| 3   | 2489.150        | 66.01          | -18.42                  | 47.59           | 74.00          | -26.41      | peak   |
| 4   | 2500.000        | 60.07          | -18.38                  | 41.69           | 74.00          | -32.31      | peak   |



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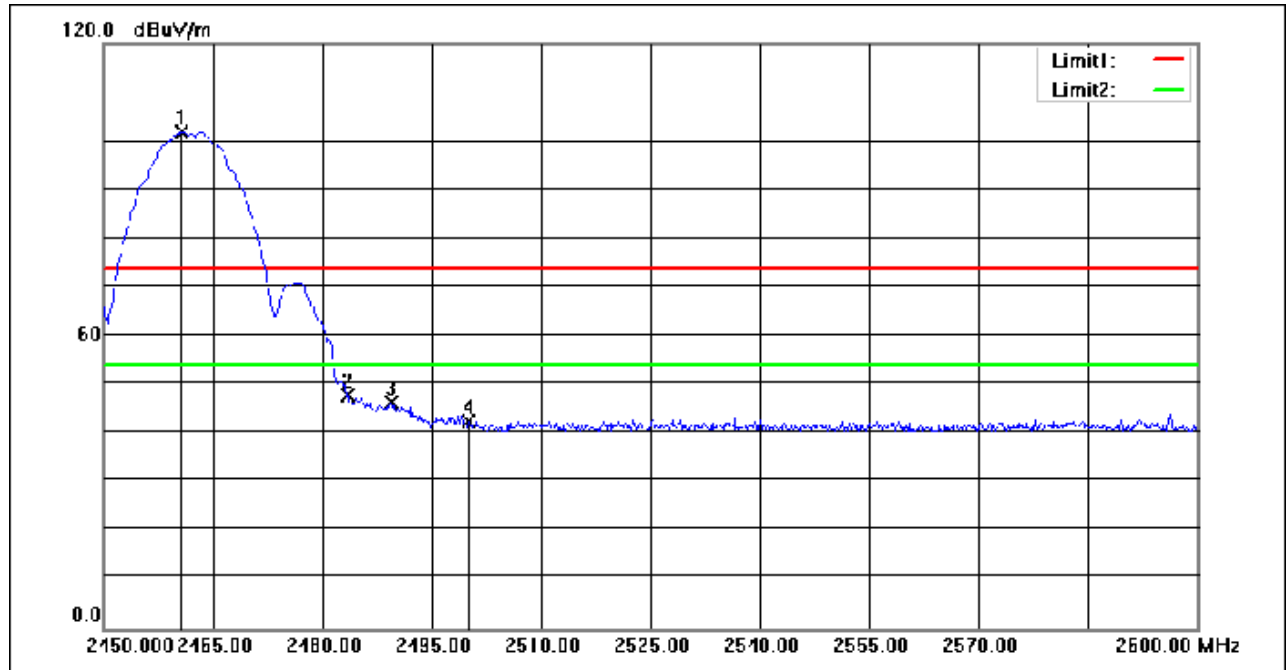
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2460.650        | 120.47         | -18.53                  | 101.94          | 74.00          | 27.94       | peak   |
| 2   | 2483.500        | 66.22          | -18.45                  | 47.77           | 74.00          | -26.23      | peak   |
| 3   | 2489.450        | 64.70          | -18.42                  | 46.28           | 74.00          | -27.72      | peak   |
| 4   | 2500.000        | 60.86          | -18.38                  | 42.48           | 74.00          | -31.52      | peak   |



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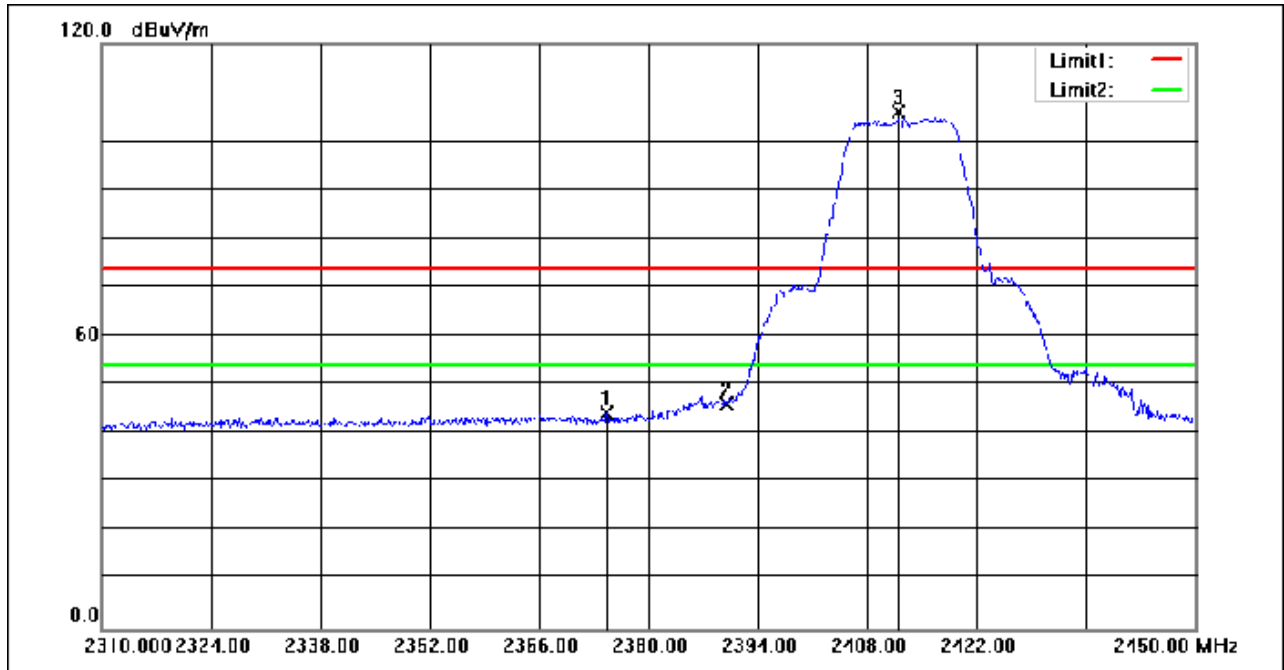
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2374.680        | 63.04          | -18.76                  | 44.28           | 74.00          | -29.72      | peak   |
| 2   | 2390.000        | 64.66          | -18.75                  | 45.91           | 74.00          | -28.09      | peak   |
| 3   | 2412.060        | 124.73         | -18.71                  | 106.02          | 74.00          | 32.02       | peak   |



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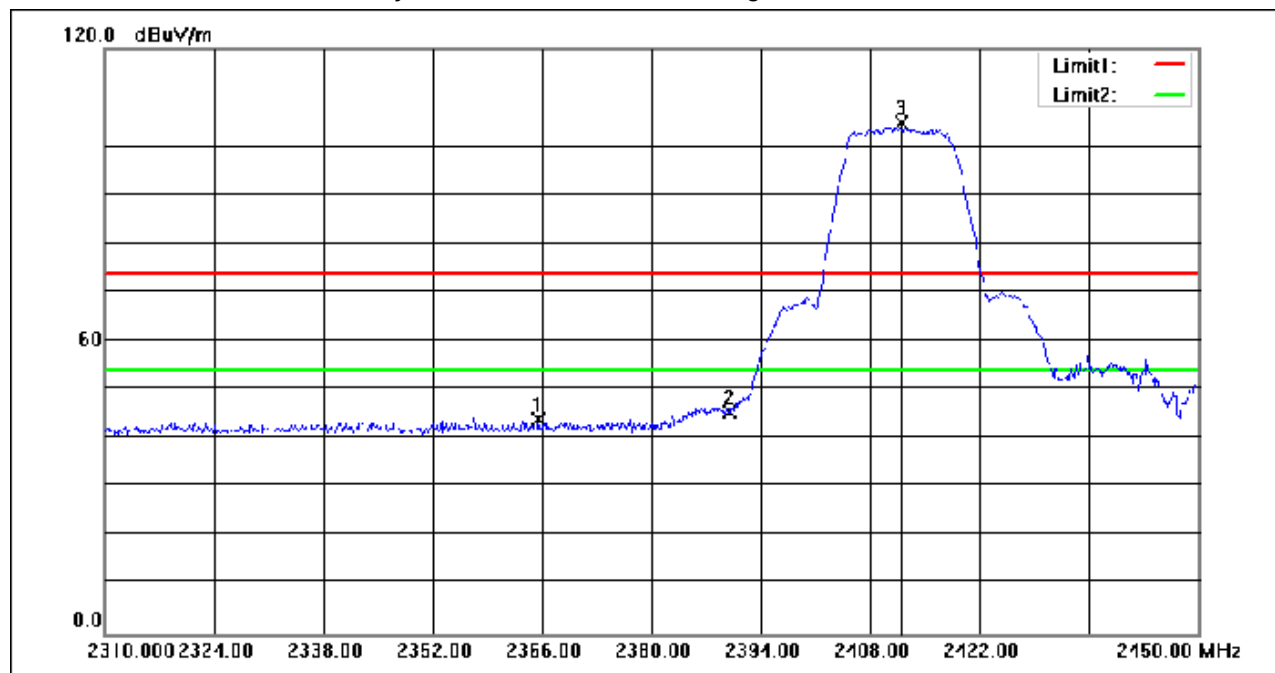
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Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2365.580        | 62.60          | -18.76                  | 43.84           | 74.00          | -30.16      | peak   |
| 2   | 2390.000        | 64.34          | -18.75                  | 45.59           | 74.00          | -28.41      | peak   |
| 3   | 2412.060        | 123.55         | -18.71                  | 104.84          | 74.00          | 30.84       | peak   |



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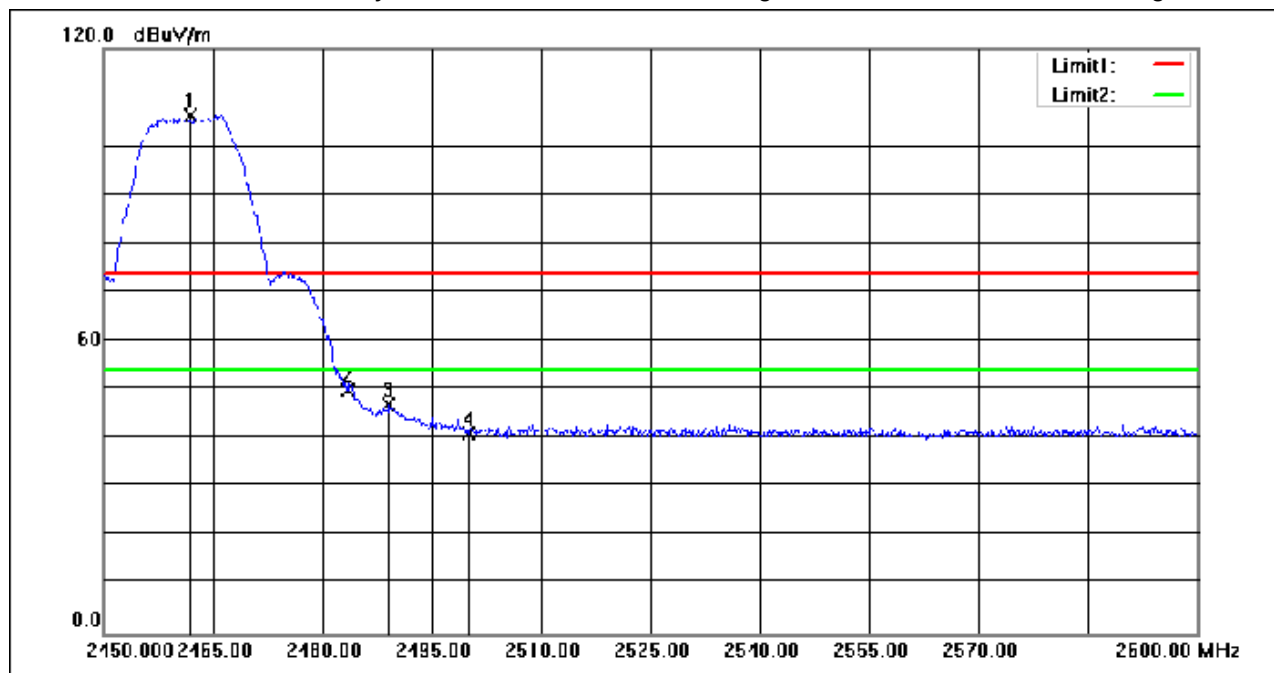
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2461.850        | 124.97         | -18.53                  | 106.44          | 74.00          | 32.44       | peak   |
| 2   | 2483.500        | 68.55          | -18.45                  | 50.10           | 74.00          | -23.90      | peak   |
| 3   | 2489.150        | 65.30          | -18.42                  | 46.88           | 74.00          | -27.12      | peak   |
| 4   | 2500.000        | 59.41          | -18.38                  | 41.03           | 74.00          | -32.97      | peak   |



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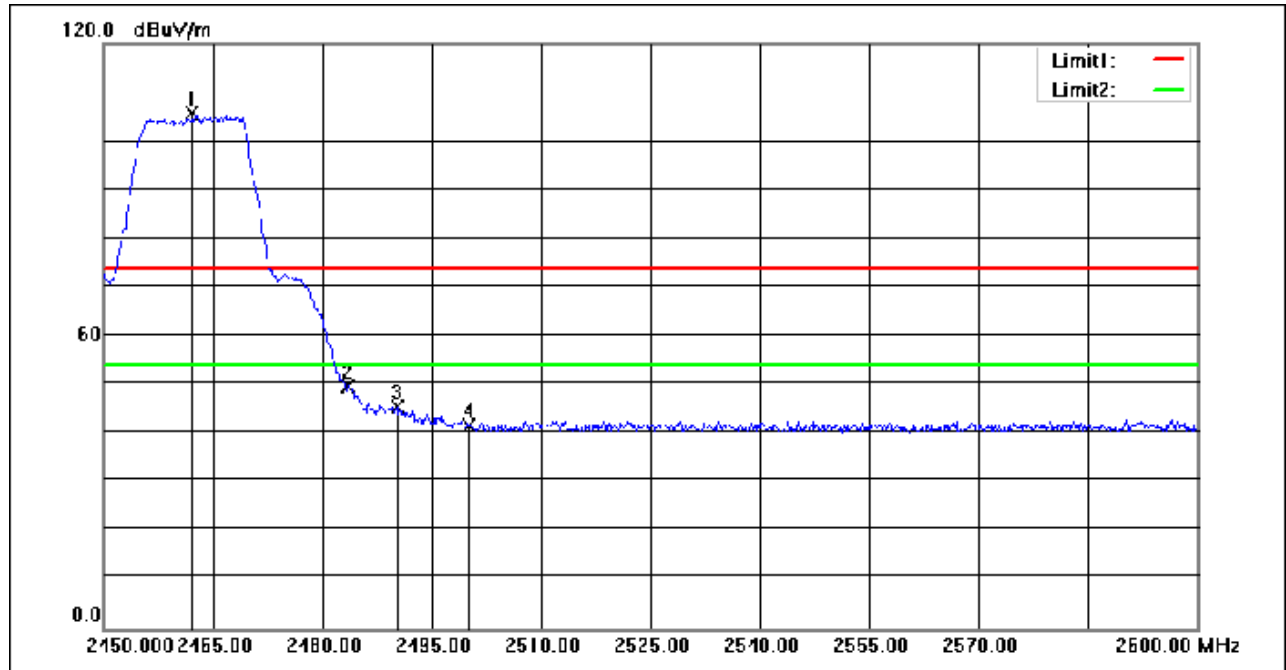
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2462.000        | 124.20         | -18.53                  | 105.67          | 74.00          | 31.67       | peak   |
| 2   | 2483.500        | 68.02          | -18.45                  | 49.57           | 74.00          | -24.43      | peak   |
| 3   | 2490.200        | 63.99          | -18.42                  | 45.57           | 74.00          | -28.43      | peak   |
| 4   | 2500.000        | 60.01          | -18.38                  | 41.63           | 74.00          | -32.37      | peak   |



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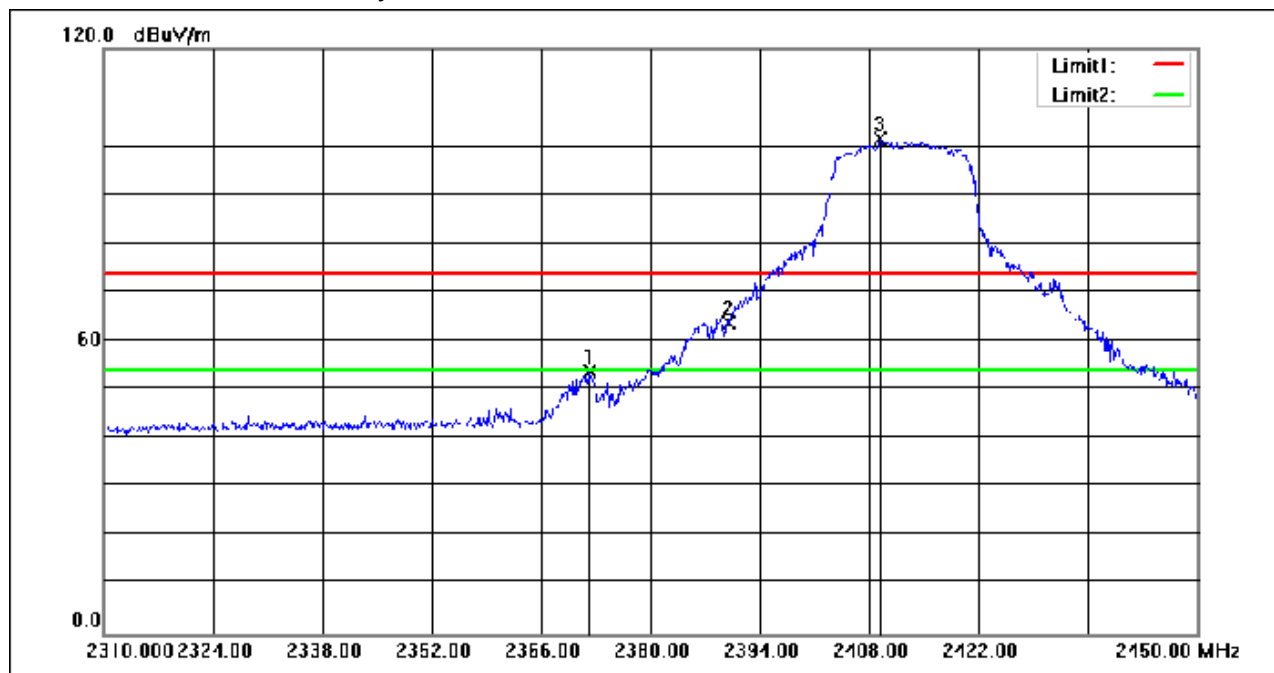
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2372.160        | 72.54          | -18.76                  | 53.78           | 74.00          | -20.22      | peak   |
| 2   | 2390.000        | 82.38          | -18.75                  | 63.63           | 74.00          | -10.37      | peak   |
| 3   | 2409.400        | 120.20         | -18.71                  | 101.49          | 74.00          | 27.49       | peak   |



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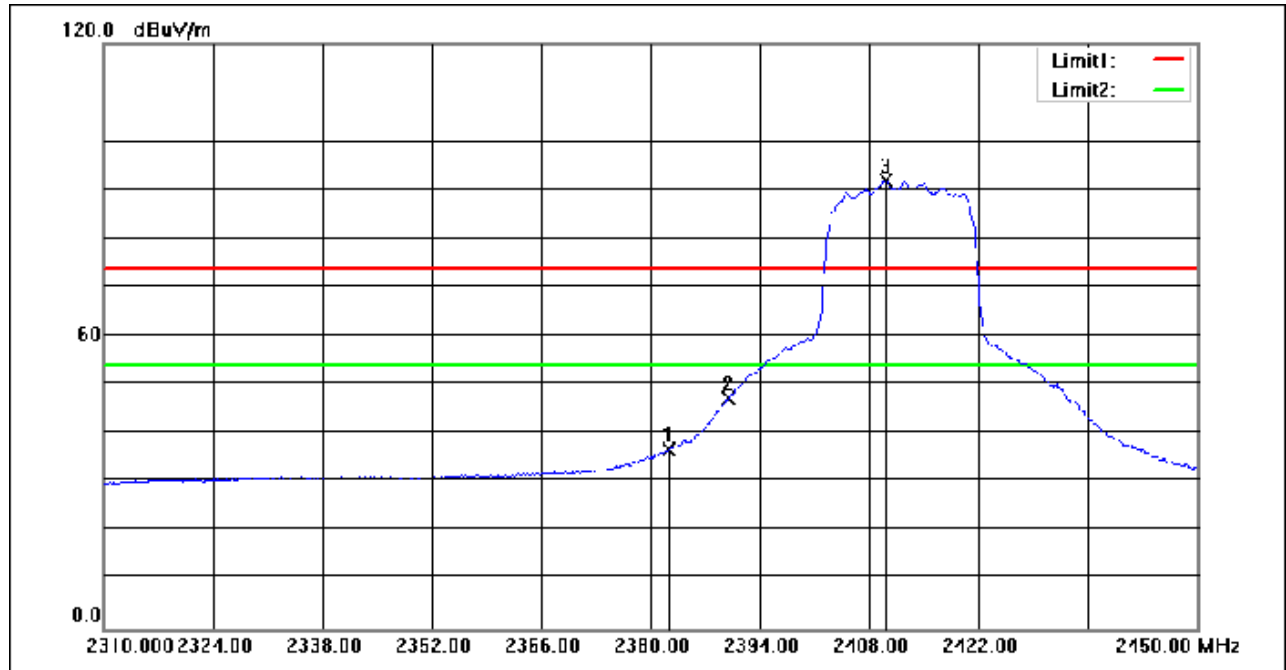
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2382.380        | 55.44          | -18.76                  | 36.68           | 54.00          | -17.32      | AVG    |
| 2   | 2390.000        | 66.04          | -18.75                  | 47.29           | 54.00          | -6.71       | AVG    |
| 3   | 2410.100        | 110.56         | -18.71                  | 91.85           | 54.00          | 37.85       | AVG    |



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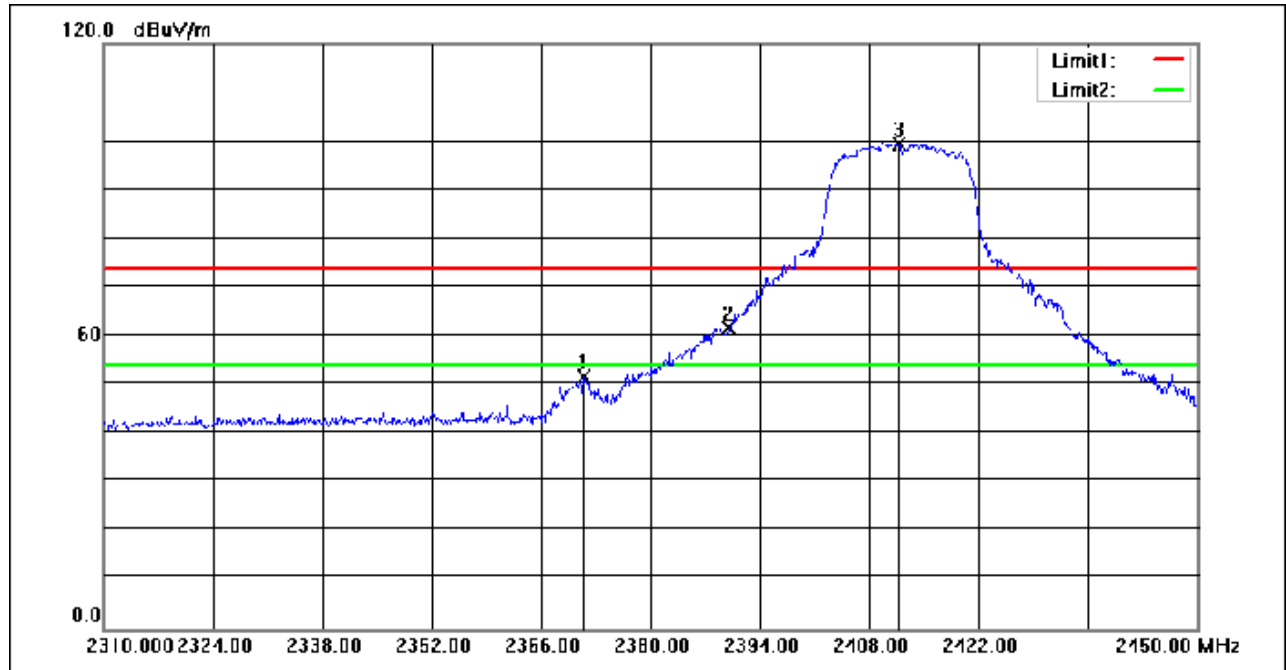
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Report No.: KSCR221000189001

Page: 36 of 177

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2371.460        | 70.62          | -18.77                  | 51.85           | 74.00          | -22.15      | peak   |
| 2   | 2390.000        | 80.54          | -18.75                  | 61.79           | 74.00          | -12.21      | peak   |
| 3   | 2411.780        | 118.28         | -18.71                  | 99.57           | 74.00          | 25.57       | peak   |



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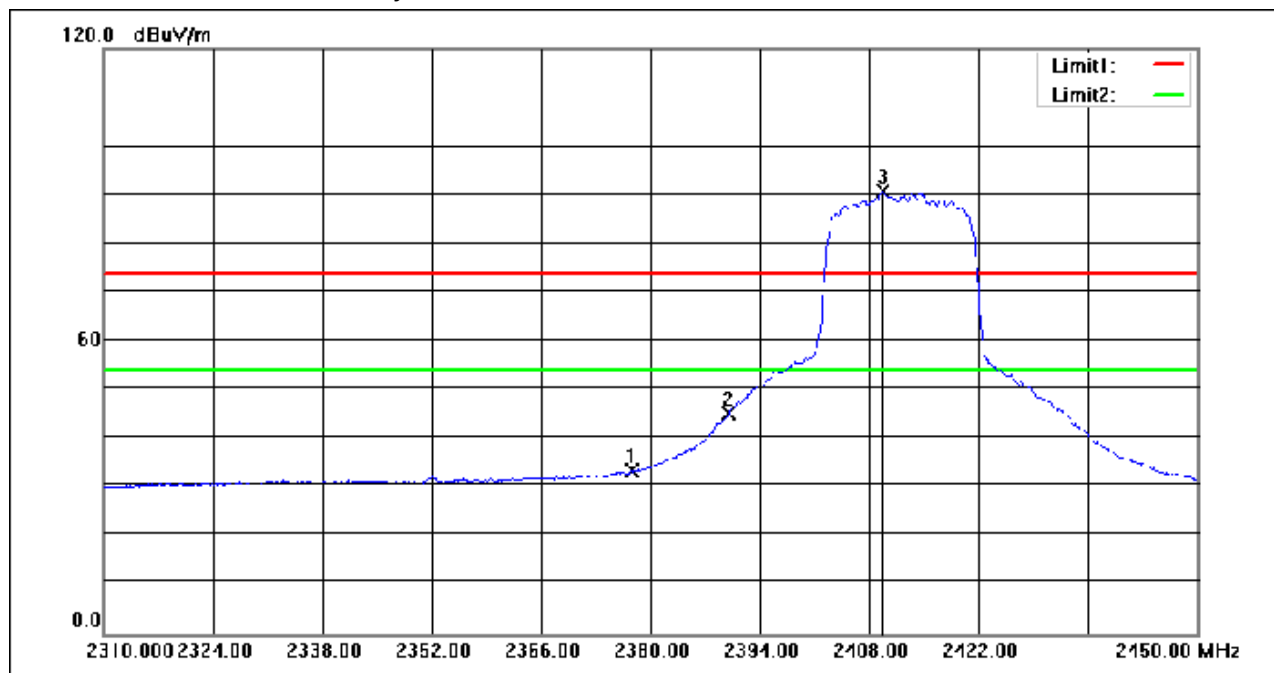
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

Page: 37 of 177

Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2377.620        | 52.28          | -18.76                  | 33.52           | 54.00          | -20.48      | AVG    |
| 2   | 2390.000        | 64.02          | -18.75                  | 45.27           | 54.00          | -8.73       | AVG    |
| 3   | 2409.680        | 109.38         | -18.71                  | 90.67           | 54.00          | 36.67       | AVG    |



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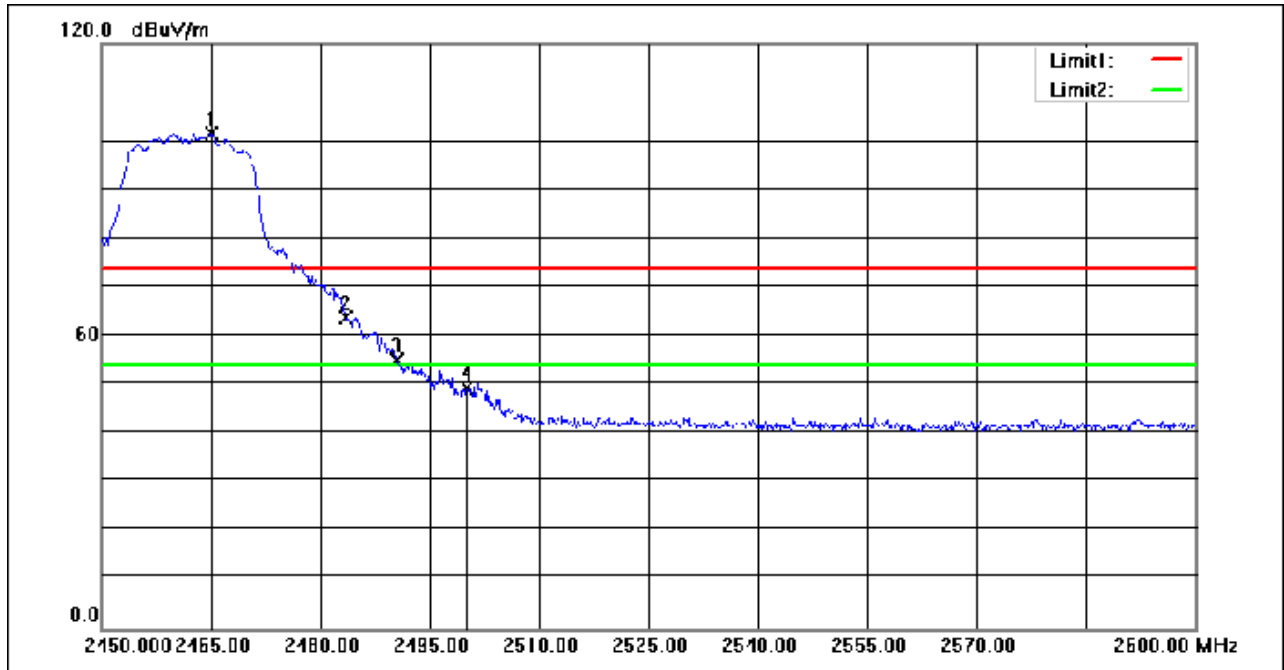
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

Page: 38 of 177

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2465.000        | 120.01         | -18.51                  | 101.50          | 74.00          | 27.50       | peak   |
| 2   | 2483.500        | 82.08          | -18.45                  | 63.63           | 74.00          | -10.37      | peak   |
| 3   | 2490.500        | 73.46          | -18.42                  | 55.04           | 74.00          | -18.96      | peak   |
| 4   | 2500.000        | 67.77          | -18.38                  | 49.39           | 74.00          | -24.61      | peak   |



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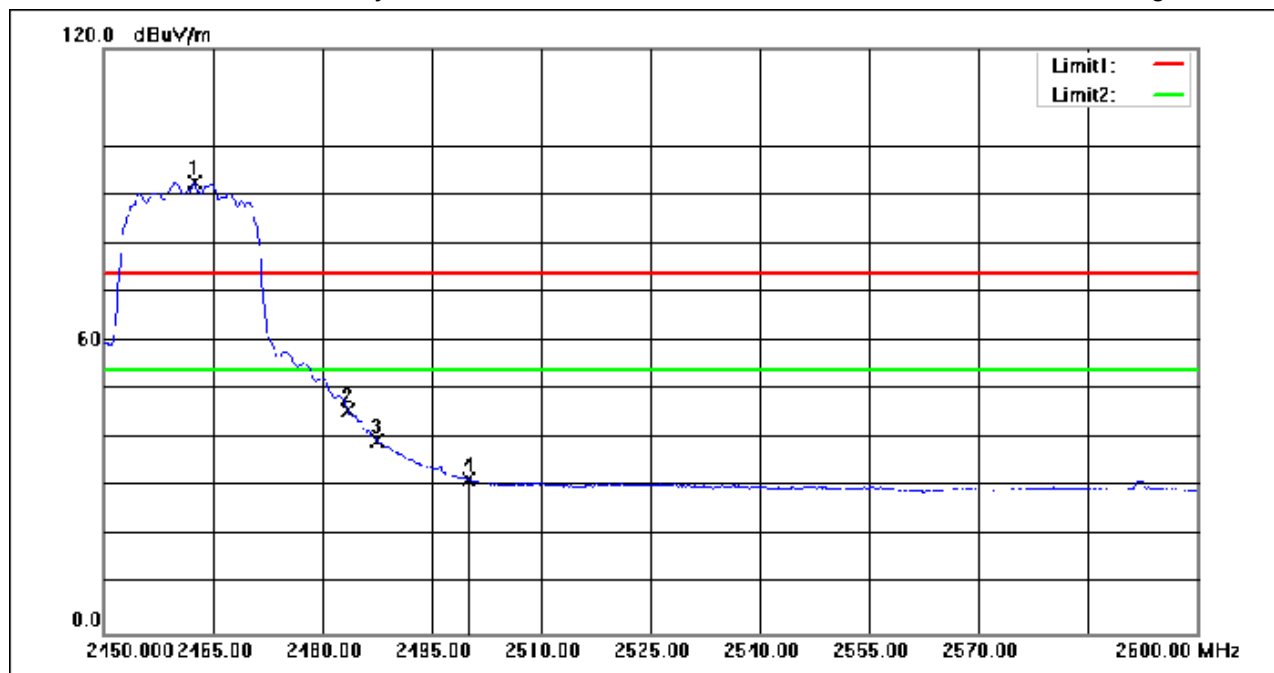
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|--------|
| 1   | 2462.450        | 110.95         | -18.53                   | 92.42           | 54.00          | 38.42       | AVG    |
| 2   | 2483.500        | 64.22          | -18.45                   | 45.77           | 54.00          | -8.23       | AVG    |
| 3   | 2487.500        | 57.93          | -18.43                   | 39.50           | 54.00          | -14.50      | AVG    |
| 4   | 2500.000        | 49.91          | -18.38                   | 31.53           | 54.00          | -22.47      | AVG    |



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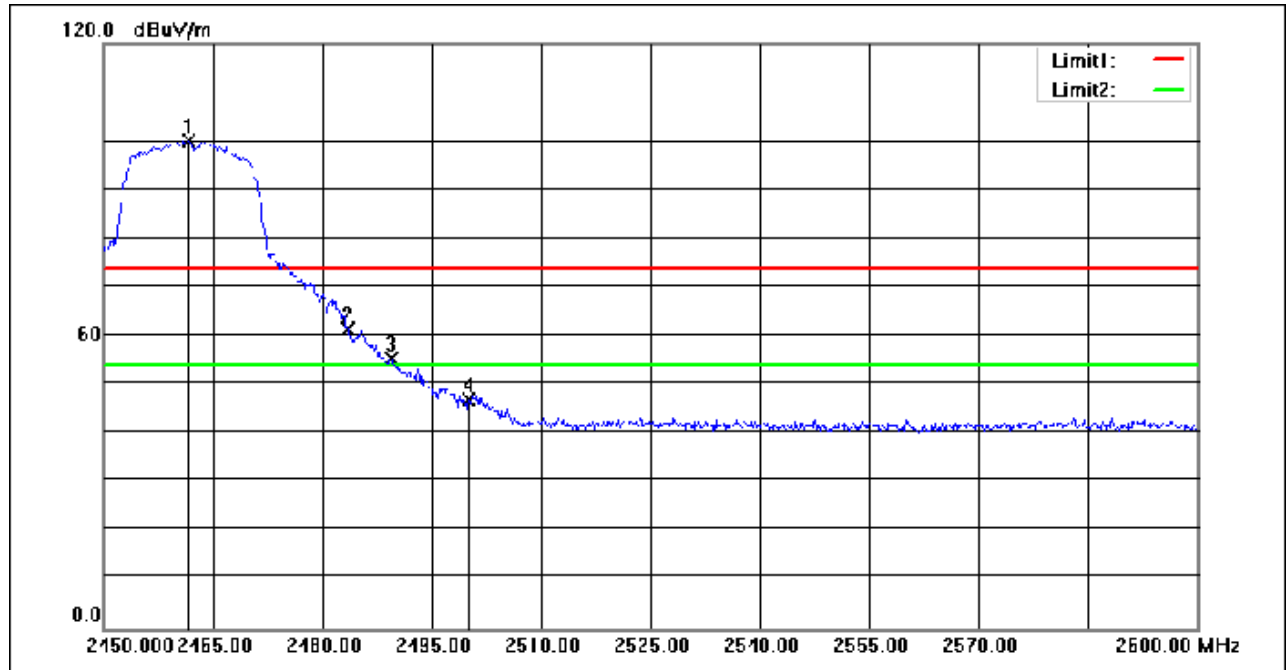
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2461.700        | 118.58         | -18.53                  | 100.05          | 74.00          | 26.05       | peak   |
| 2   | 2483.500        | 79.82          | -18.45                  | 61.37           | 74.00          | -12.63      | peak   |
| 3   | 2489.450        | 73.82          | -18.42                  | 55.40           | 74.00          | -18.60      | peak   |
| 4   | 2500.000        | 65.38          | -18.38                  | 47.00           | 74.00          | -27.00      | peak   |



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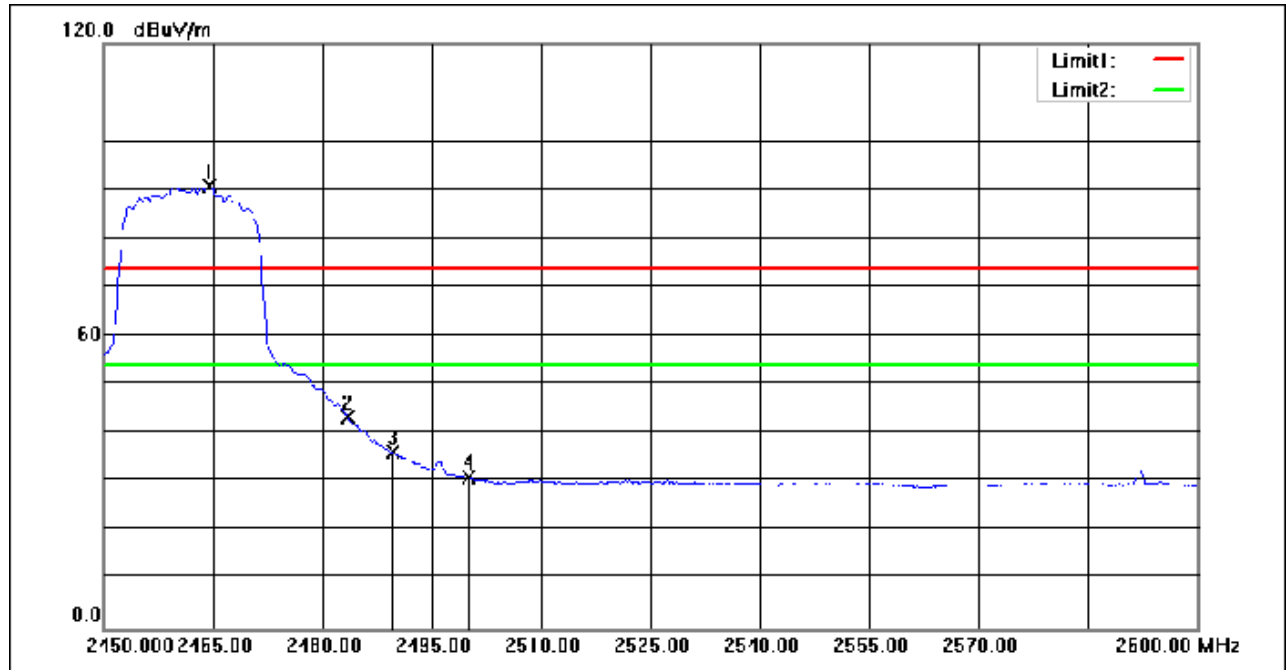
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2464.400        | 109.25         | -18.52                  | 90.73           | 54.00          | 36.73       | AVG    |
| 2   | 2483.500        | 61.75          | -18.45                  | 43.30           | 54.00          | -10.70      | AVG    |
| 3   | 2489.600        | 54.55          | -18.42                  | 36.13           | 54.00          | -17.87      | AVG    |
| 4   | 2500.000        | 49.39          | -18.38                  | 31.01           | 54.00          | -22.99      | AVG    |



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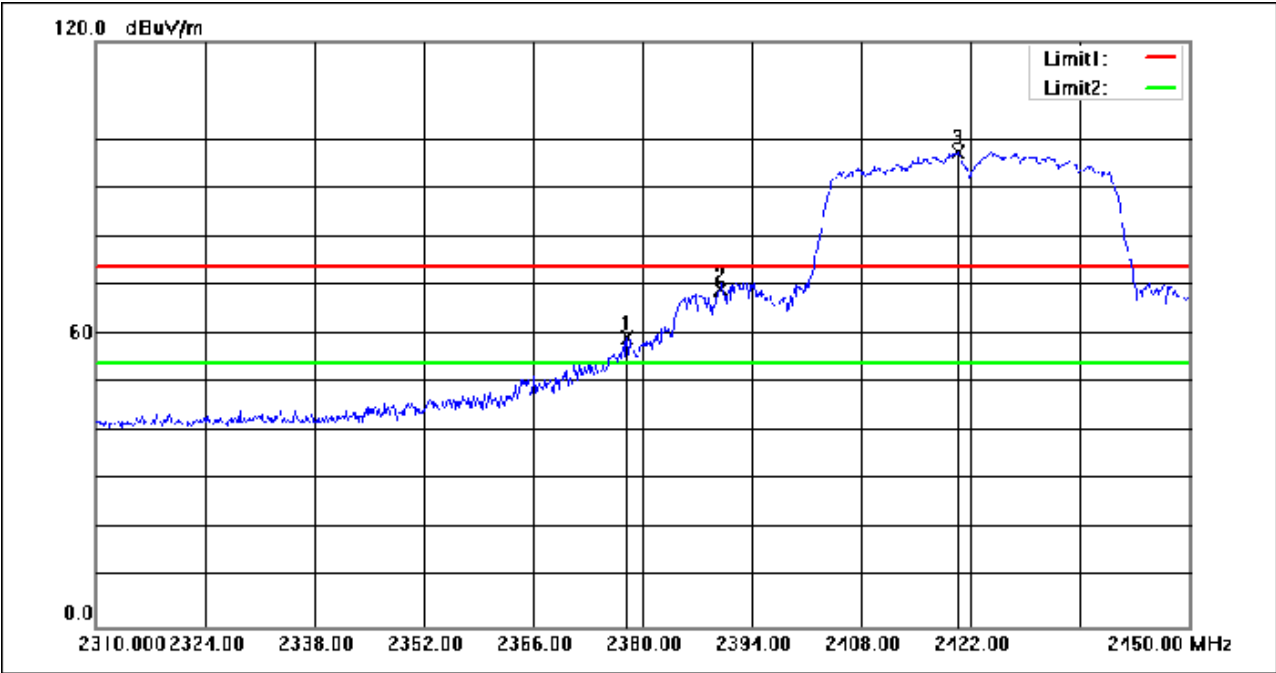
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2378.040        | 77.92          | -18.76                  | 59.16           | 74.00          | -14.84      | peak   |
| 2   | 2390.000        | 88.04          | -18.75                  | 69.29           | 74.00          | -4.71       | peak   |
| 3   | 2420.320        | 116.07         | -18.67                  | 97.40           | 74.00          | 23.40       | peak   |



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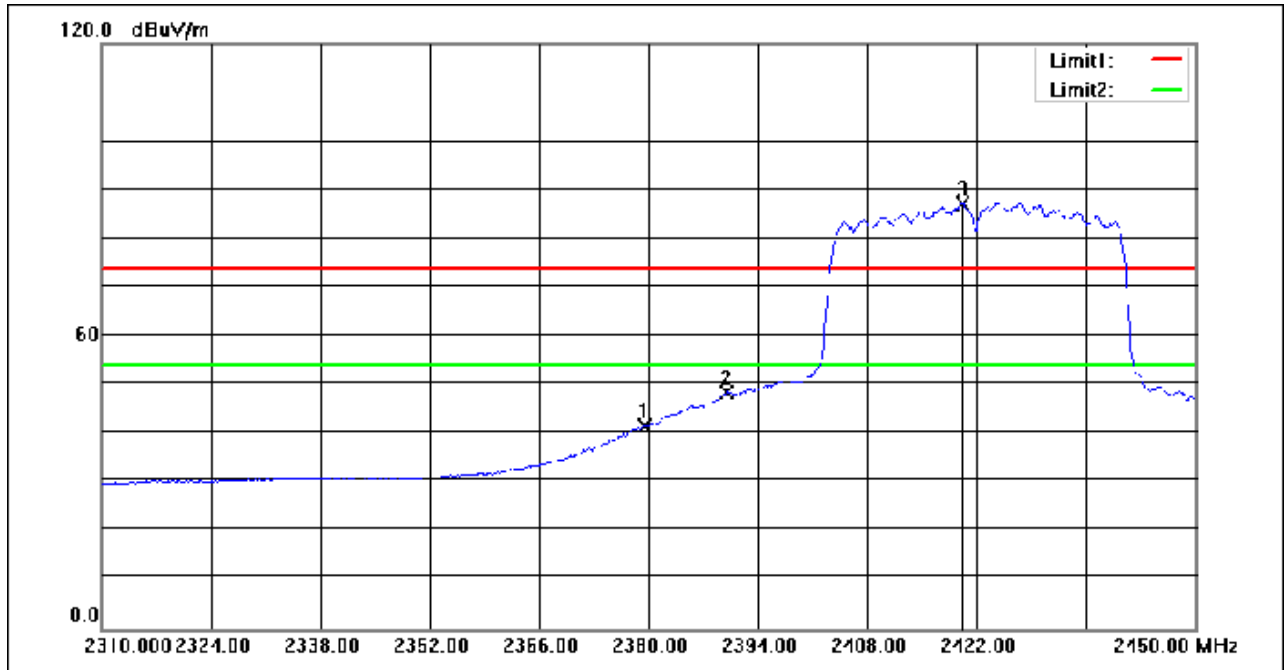
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2379.580        | 60.30          | -18.76                  | 41.54           | 54.00          | -12.46      | AVG    |
| 2   | 2390.000        | 67.16          | -18.75                  | 48.41           | 54.00          | -5.59       | AVG    |
| 3   | 2420.180        | 105.81         | -18.67                  | 87.14           | 54.00          | 33.14       | AVG    |



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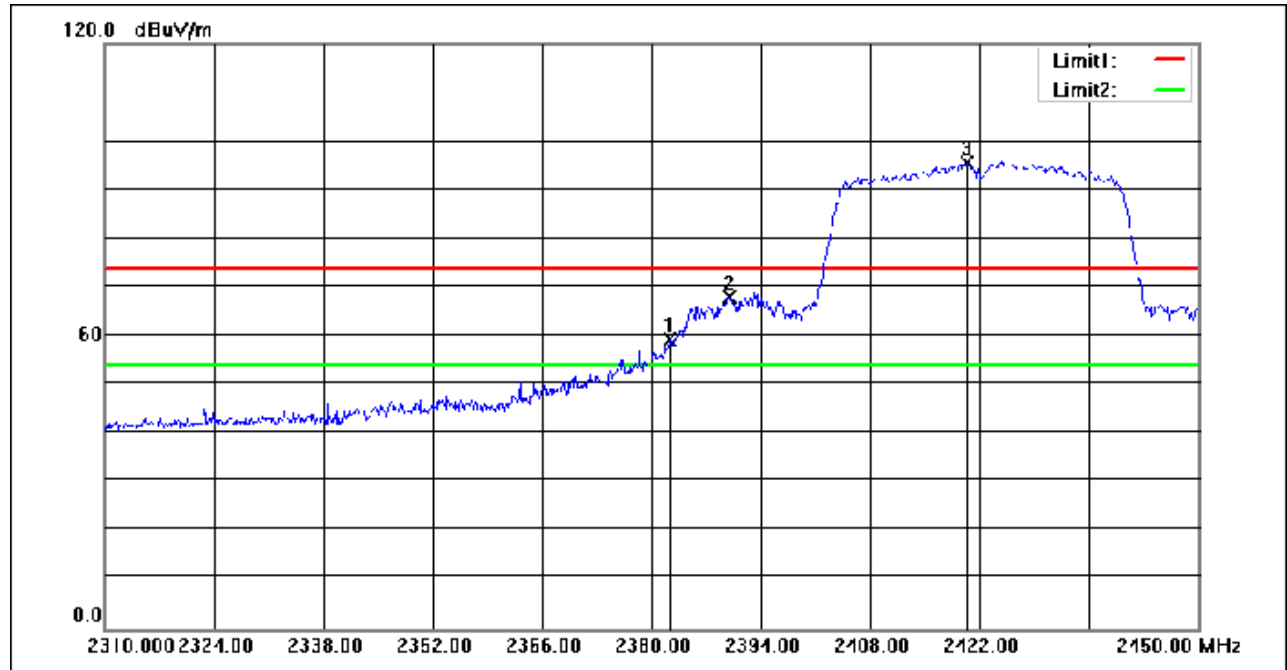
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2382.240        | 78.13          | -18.75                  | 59.38           | 74.00          | -14.62      | peak   |
| 2   | 2390.000        | 86.74          | -18.75                  | 67.99           | 74.00          | -6.01       | peak   |
| 3   | 2420.320        | 114.10         | -18.67                  | 95.43           | 74.00          | 21.43       | peak   |



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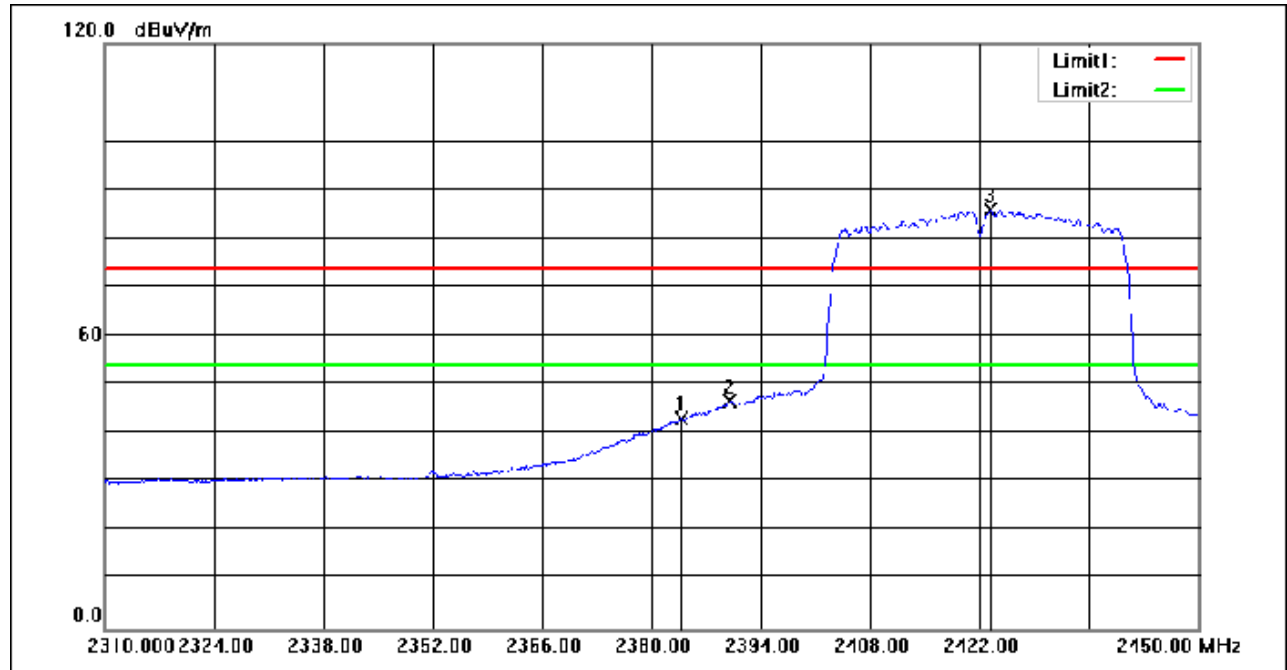
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2383.780        | 61.69          | -18.76                  | 42.93           | 54.00          | -11.07      | AVG    |
| 2   | 2390.000        | 65.35          | -18.75                  | 46.60           | 54.00          | -7.40       | AVG    |
| 3   | 2423.400        | 104.56         | -18.66                  | 85.90           | 54.00          | 31.90       | AVG    |



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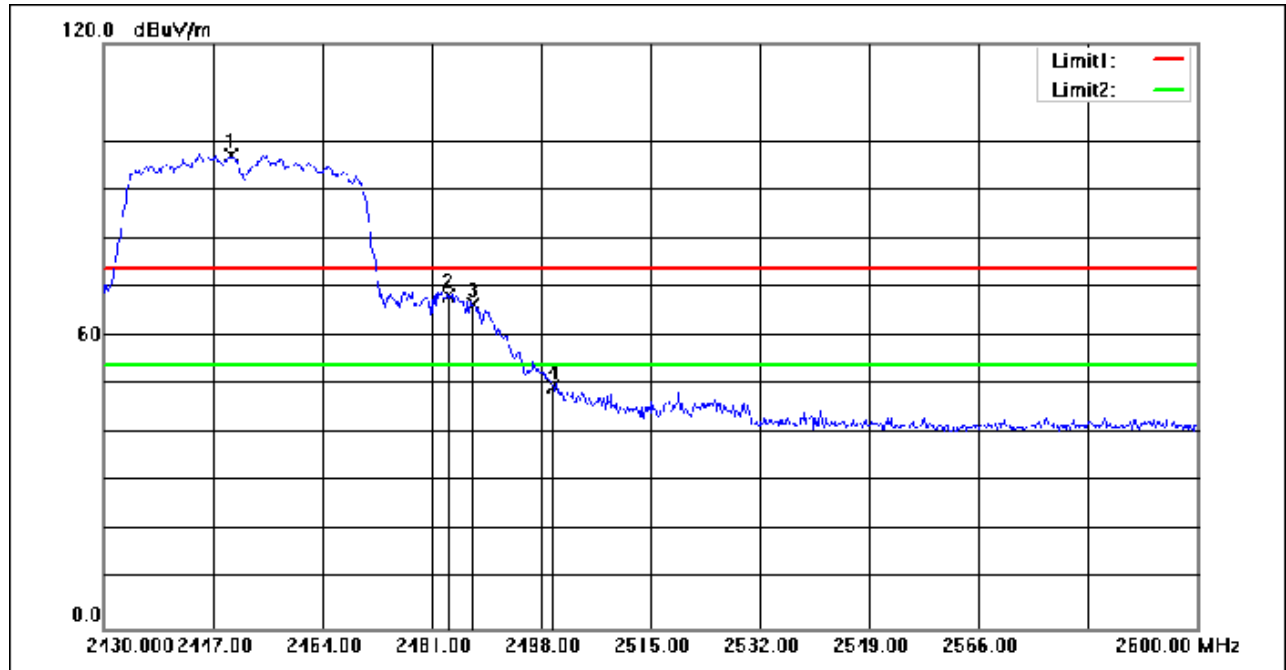
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2449.890        | 115.64         | -18.57                  | 97.07           | 74.00          | 23.07       | peak   |
| 2   | 2483.500        | 86.74          | -18.45                  | 68.29           | 74.00          | -5.71       | peak   |
| 3   | 2487.460        | 85.04          | -18.44                  | 66.60           | 74.00          | -7.40       | peak   |
| 4   | 2500.000        | 68.00          | -18.38                  | 49.62           | 74.00          | -24.38      | peak   |



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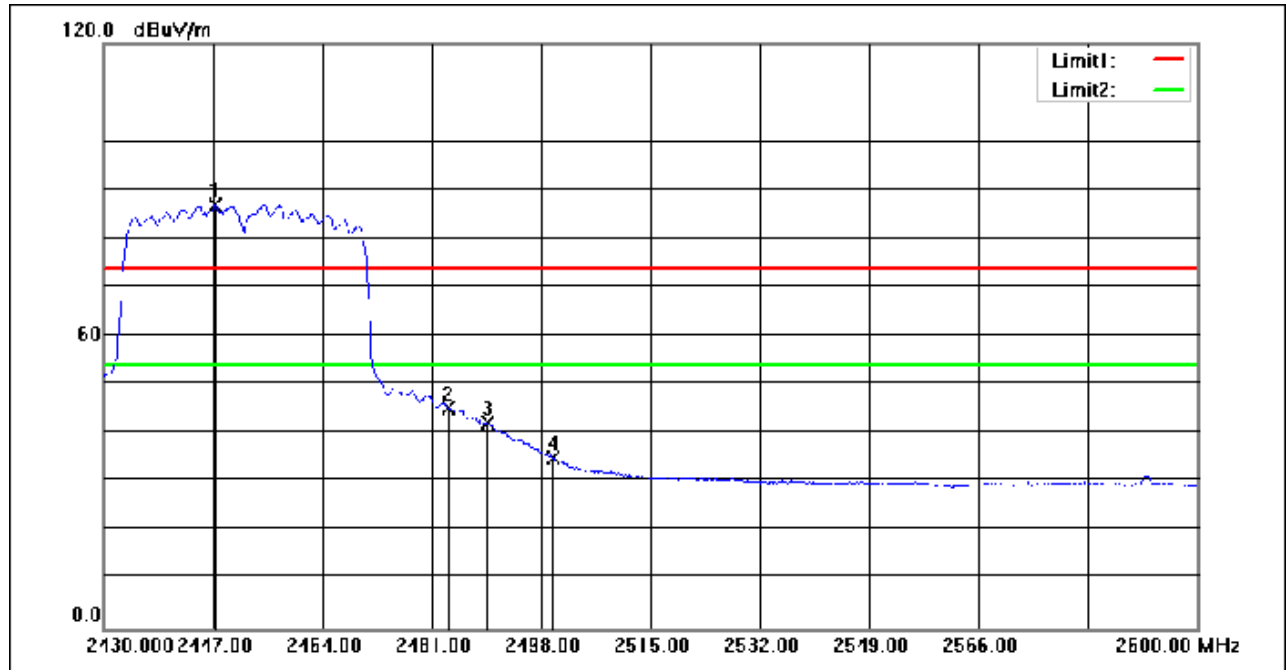
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2447.340        | 105.40         | -18.58                  | 86.82           | 54.00          | 32.82       | AVG    |
| 2   | 2483.500        | 63.61          | -18.45                  | 45.16           | 54.00          | -8.84       | AVG    |
| 3   | 2489.670        | 60.52          | -18.42                  | 42.10           | 54.00          | -11.90      | AVG    |
| 4   | 2500.000        | 53.24          | -18.38                  | 34.86           | 54.00          | -19.14      | AVG    |



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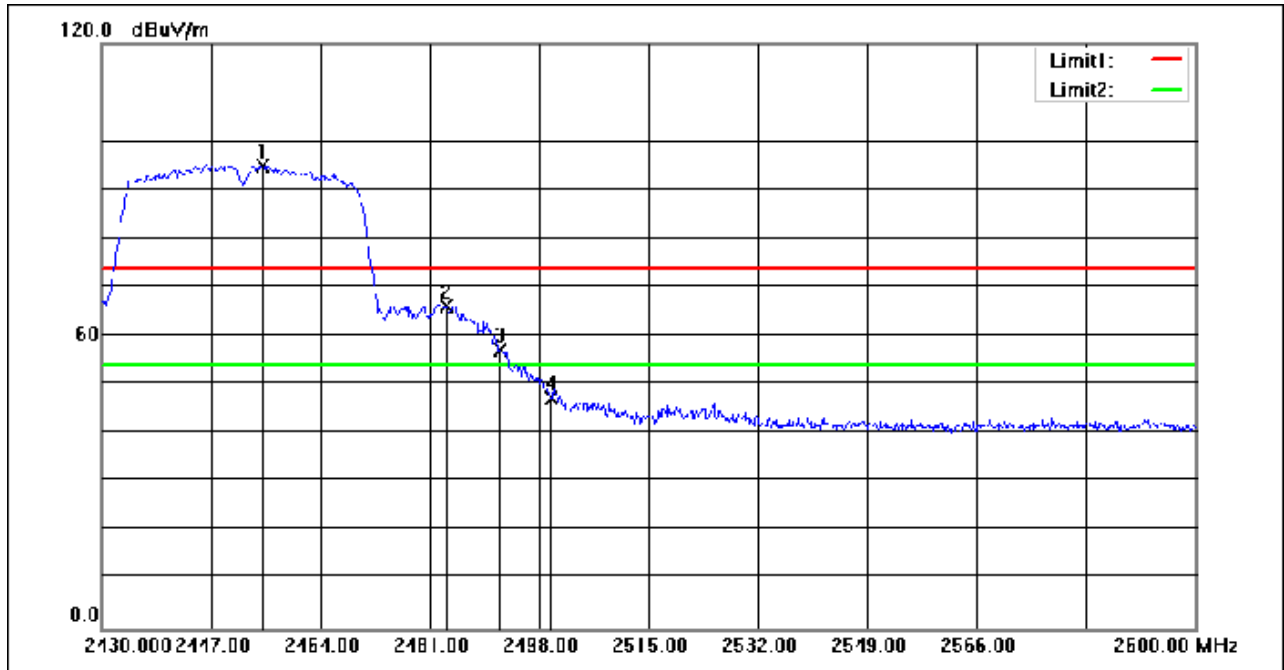
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2454.990        | 113.42         | -18.55                  | 94.87           | 74.00          | 20.87       | peak   |
| 2   | 2483.500        | 84.54          | -18.45                  | 66.09           | 74.00          | -7.91       | peak   |
| 3   | 2491.880        | 75.69          | -18.41                  | 57.28           | 74.00          | -16.72      | peak   |
| 4   | 2500.000        | 65.54          | -18.38                  | 47.16           | 74.00          | -26.84      | peak   |



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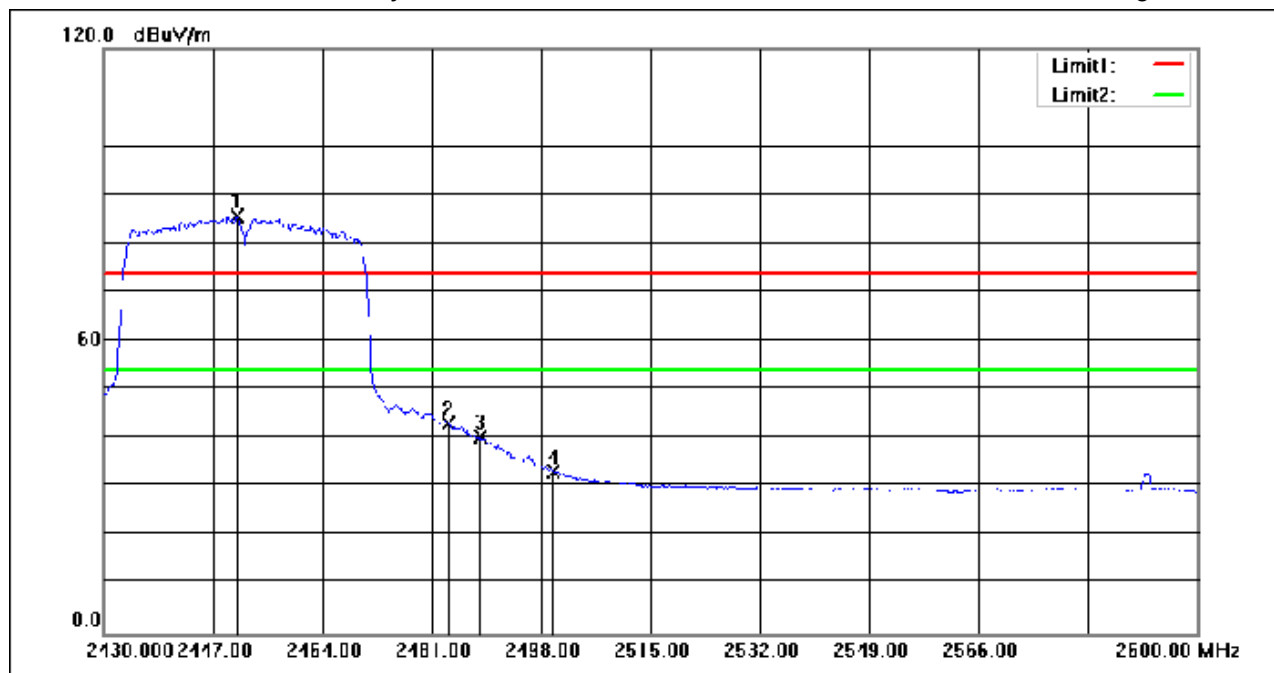
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 2450.740        | 104.22         | -18.57                  | 85.65           | 54.00          | 31.65       | AVG    |
| 2   | 2483.500        | 61.48          | -18.45                  | 43.03           | 54.00          | -10.97      | AVG    |
| 3   | 2488.480        | 58.63          | -18.42                  | 40.21           | 54.00          | -13.79      | AVG    |
| 4   | 2500.000        | 51.64          | -18.38                  | 33.26           | 54.00          | -20.74      | AVG    |



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### 7.8 Radiated Spurious Emissions Below 1GHz

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

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

Limit:

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

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

Operating Environment:

Temperature: 23.5 °C

Humidity: 58.5 % RH

Atmospheric Pressure: 1010 mbar

#### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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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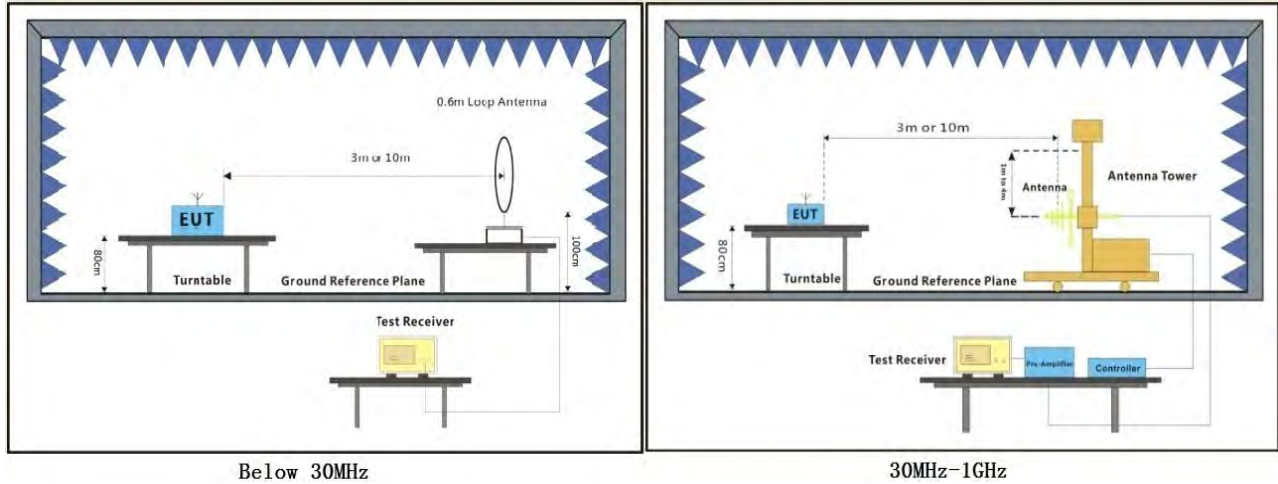
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### 7.8.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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### 7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
4. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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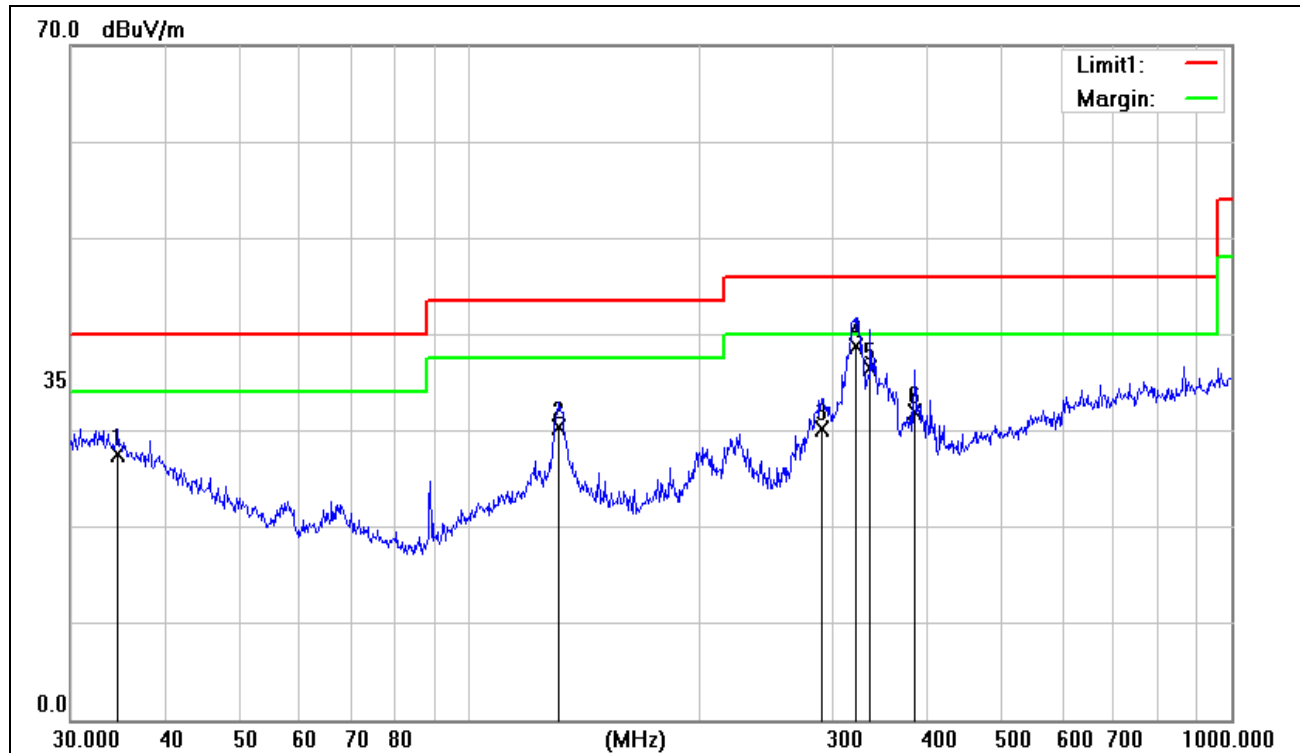
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Test Mode: 00; Polarity: Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1   | 34.6385            | 2.75              | 24.73                   | 27.48              | 40.00             | -12.52         | 201            | 220              | QP     |
| 2   | 131.2965           | 10.98             | 19.33                   | 30.31              | 43.50             | -13.19         | 201            | 360              | QP     |
| 3   | 290.0172           | 9.64              | 20.48                   | 30.12              | 46.00             | -15.88         | 201            | 310              | QP     |
| 4   | 321.0608           | 17.65             | 21.10                   | 38.75              | 46.00             | -7.25          | 100            | 273              | QP     |
| 5   | 336.0352           | 15.21             | 21.36                   | 36.57              | 46.00             | -9.43          | 100            | 274              | QP     |
| 6   | 383.9318           | 9.41              | 22.60                   | 32.01              | 46.00             | -13.99         | 100            | 123              | QP     |



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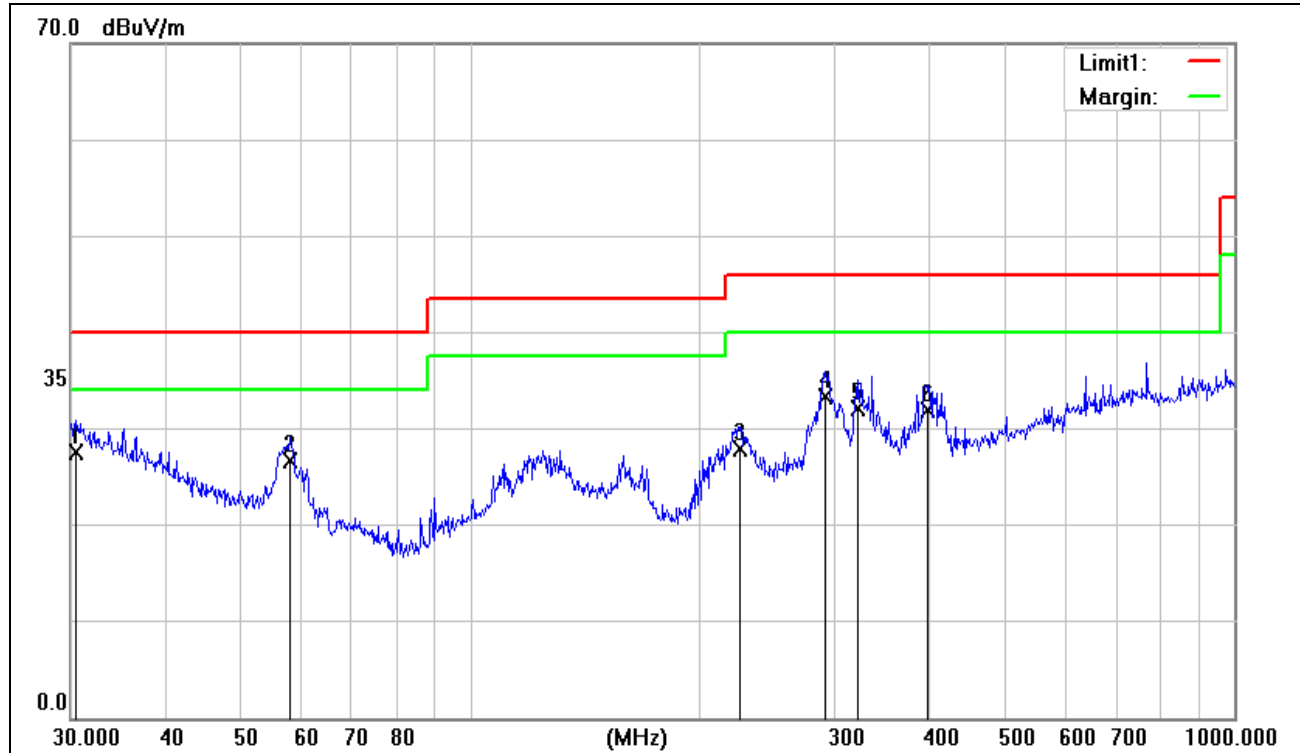
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Test Mode: 00; Polarity: Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1   | 30.5306            | 2.43              | 25.18                   | 27.61              | 40.00             | -12.39         | 100            | 355              | QP     |
| 2   | 57.9993            | 11.42             | 15.26                   | 26.68              | 40.00             | -13.32         | 101            | 0                | QP     |
| 3   | 225.3080           | 10.77             | 17.07                   | 27.84              | 46.00             | -18.16         | 101            | 0                | QP     |
| 4   | 291.0360           | 12.78             | 20.49                   | 33.27              | 46.00             | -12.73         | 201            | 313              | QP     |
| 5   | 321.0608           | 11.05             | 21.10                   | 32.15              | 46.00             | -13.85         | 182            | 0                | QP     |
| 6   | 396.2415           | 8.69              | 23.18                   | 31.87              | 46.00             | -14.13         | 100            | 355              | QP     |



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### 7.9 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

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

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

Operating Environment:

Temperature: 23.5 °C

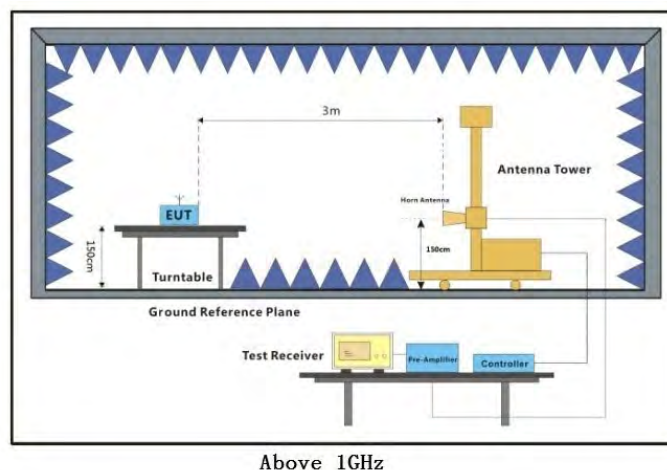
Humidity: 58.5 % RH

Atmospheric Pressure: 1010 mbar

#### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | Charge + TX mode_Keep the EUT in charging and 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. |

#### 7.9.3 Test Setup Diagram



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### 7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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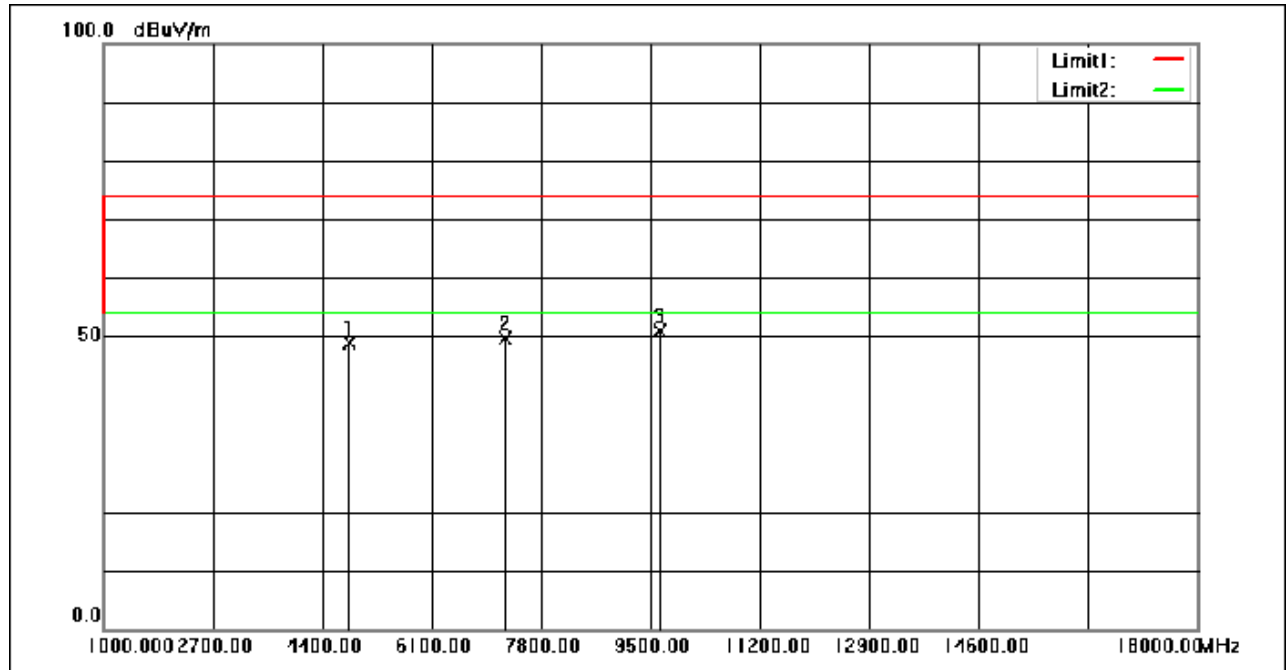
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4824.000        | 57.74          | -8.78                   | 48.96           | 74.00          | -25.04      | peak   |
| 2   | 7236.000        | 55.41          | -5.86                   | 49.55           | 74.00          | -24.45      | peak   |
| 3   | 9648.000        | 52.15          | -1.31                   | 50.84           | 74.00          | -23.16      | peak   |



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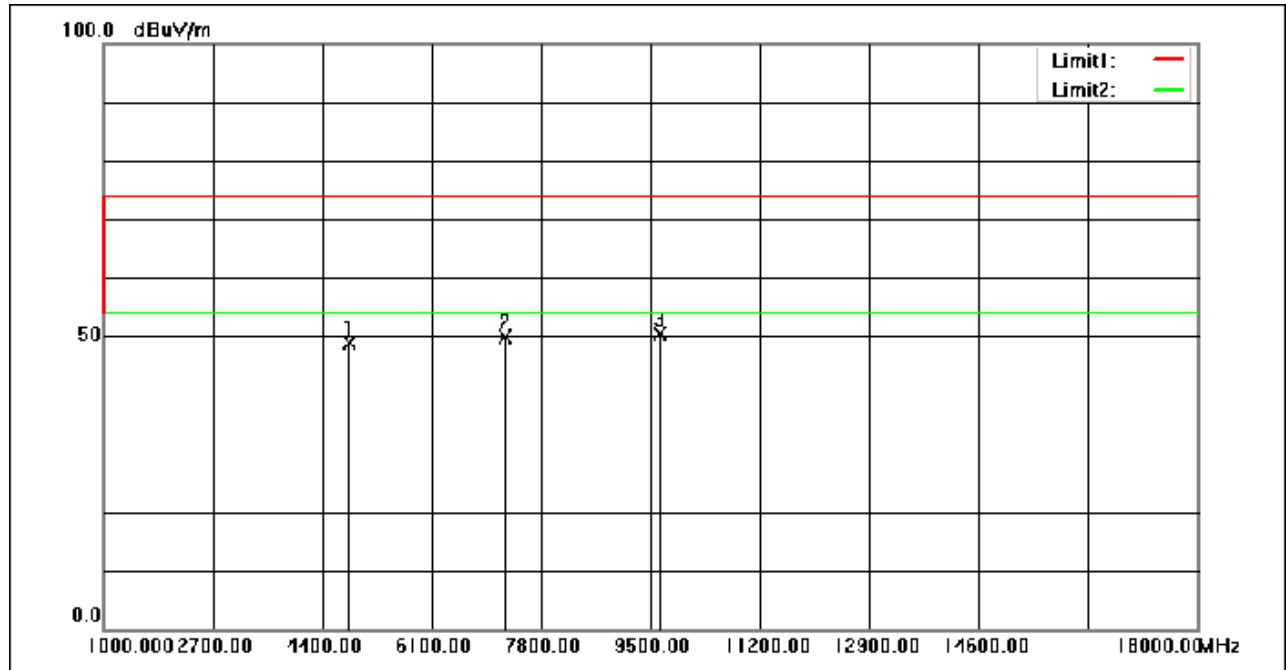
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4824.000        | 57.54          | -8.78                   | 48.76           | 74.00          | -25.24      | peak   |
| 2   | 7236.000        | 55.78          | -5.86                   | 49.92           | 74.00          | -24.08      | peak   |
| 3   | 9648.000        | 51.63          | -1.31                   | 50.32           | 74.00          | -23.68      | peak   |



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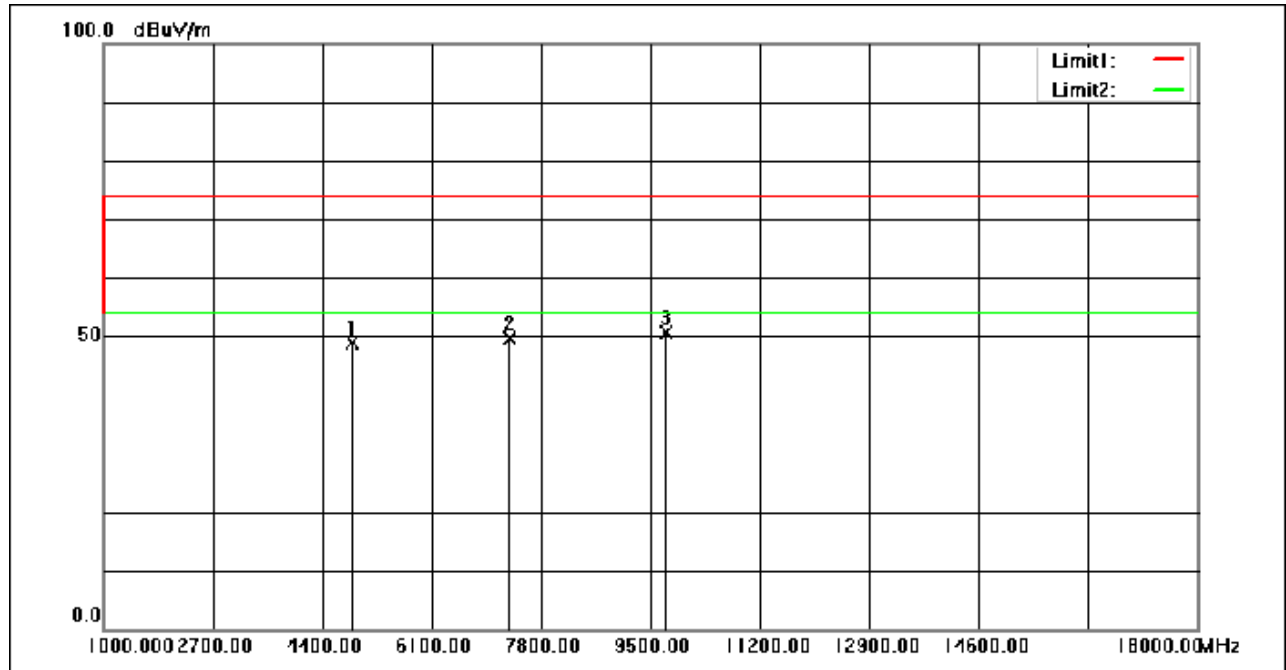
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.37          | -8.61                   | 48.76           | 74.00          | -25.24      | peak   |
| 2   | 7311.000        | 55.39          | -5.78                   | 49.61           | 74.00          | -24.39      | peak   |
| 3   | 9748.000        | 52.17          | -1.43                   | 50.74           | 74.00          | -23.26      | peak   |



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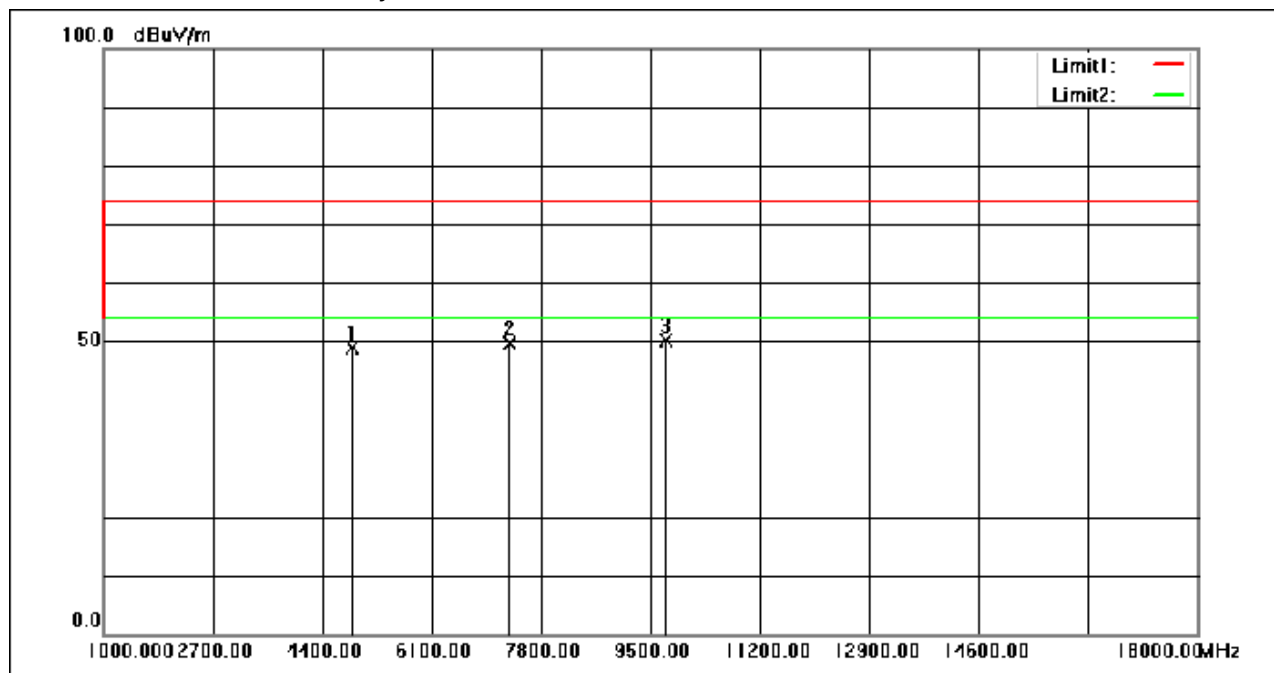
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.46          | -8.61                   | 48.85           | 74.00          | -25.15      | peak   |
| 2   | 7311.000        | 55.45          | -5.78                   | 49.67           | 74.00          | -24.33      | peak   |
| 3   | 9748.000        | 51.54          | -1.43                   | 50.11           | 74.00          | -23.89      | peak   |



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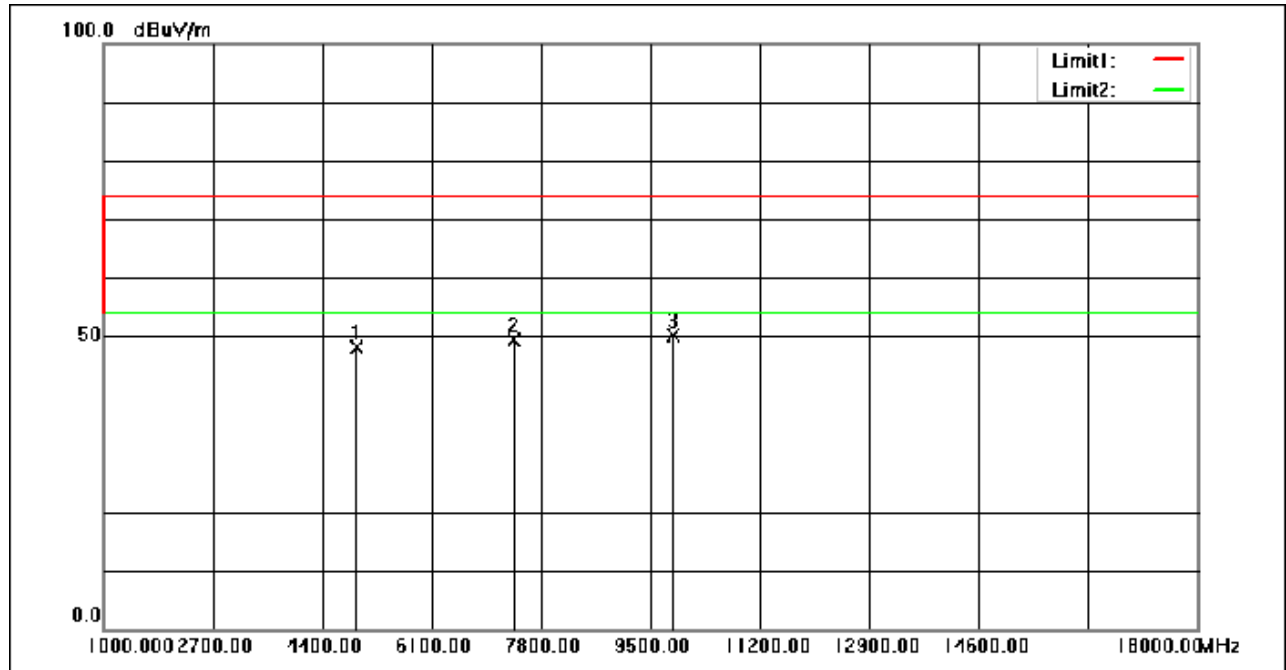
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4924.000        | 56.53          | -8.44                   | 48.09           | 74.00          | -25.91      | peak   |
| 2   | 7386.000        | 55.15          | -5.69                   | 49.46           | 74.00          | -24.54      | peak   |
| 3   | 9848.000        | 51.50          | -1.27                   | 50.23           | 74.00          | -23.77      | peak   |



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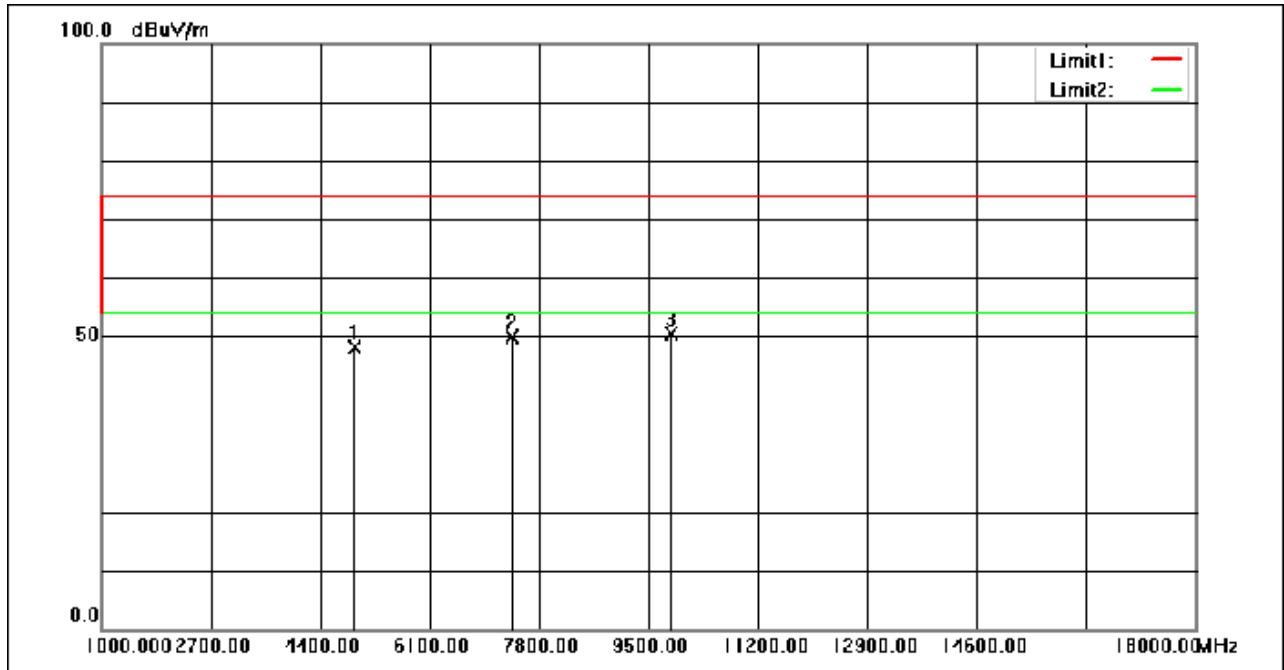
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4924.000        | 56.68          | -8.44                   | 48.24           | 74.00          | -25.76      | peak   |
| 2   | 7386.000        | 55.64          | -5.69                   | 49.95           | 74.00          | -24.05      | peak   |
| 3   | 9848.000        | 51.66          | -1.27                   | 50.39           | 74.00          | -23.61      | peak   |



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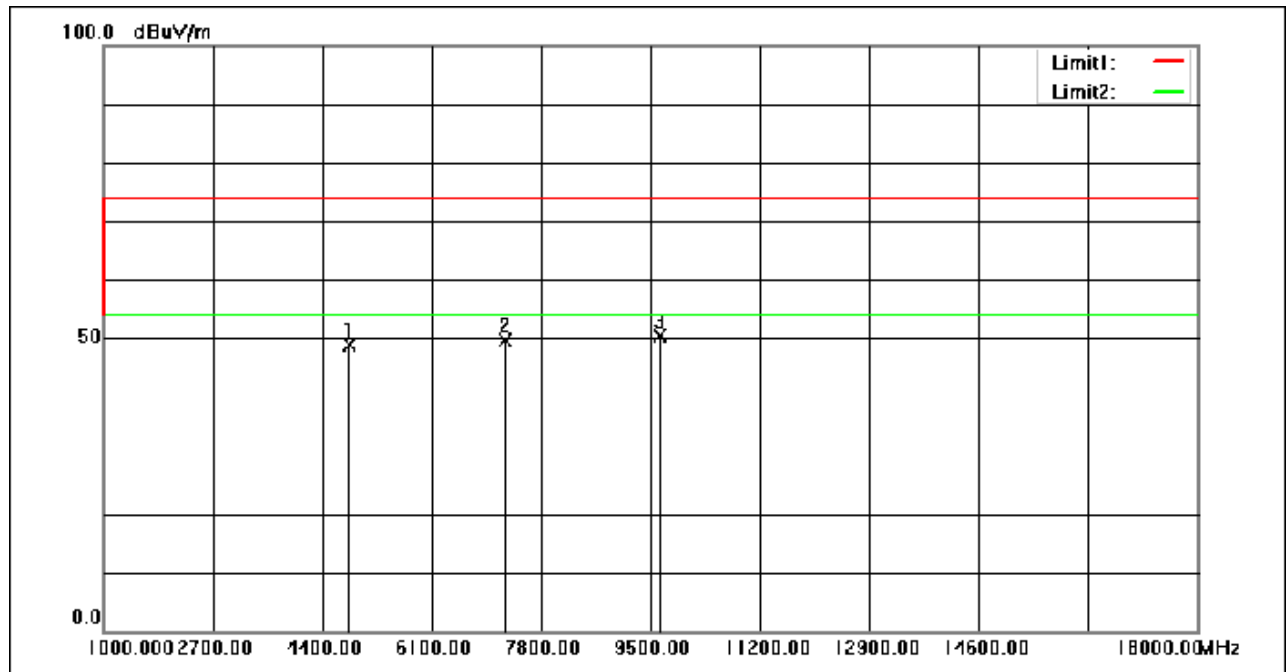
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4824.000        | 57.61          | -8.78                   | 48.83           | 74.00          | -25.17      | peak   |
| 2   | 7236.000        | 55.42          | -5.86                   | 49.56           | 74.00          | -24.44      | peak   |
| 3   | 9648.000        | 51.58          | -1.31                   | 50.27           | 74.00          | -23.73      | peak   |



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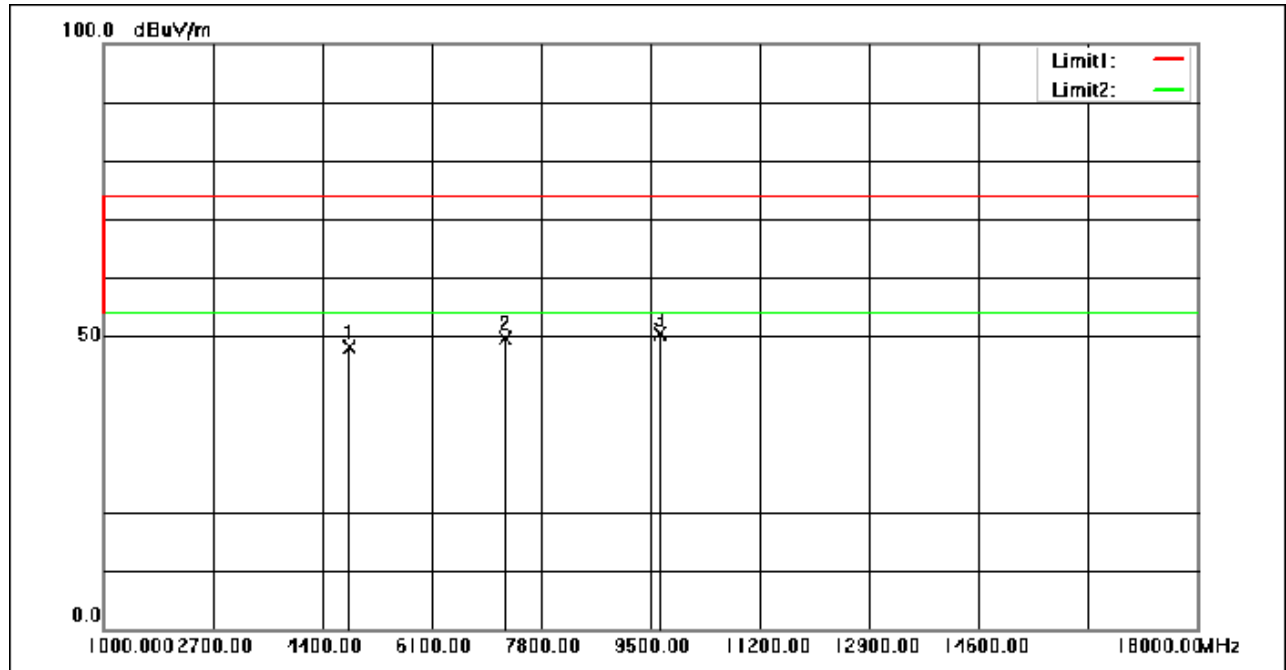
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

Page: 64 of 177

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4824.000        | 56.80          | -8.78                   | 48.02           | 74.00          | -25.98      | peak   |
| 2   | 7236.000        | 55.57          | -5.86                   | 49.71           | 74.00          | -24.29      | peak   |
| 3   | 9648.000        | 51.80          | -1.31                   | 50.49           | 74.00          | -23.51      | peak   |



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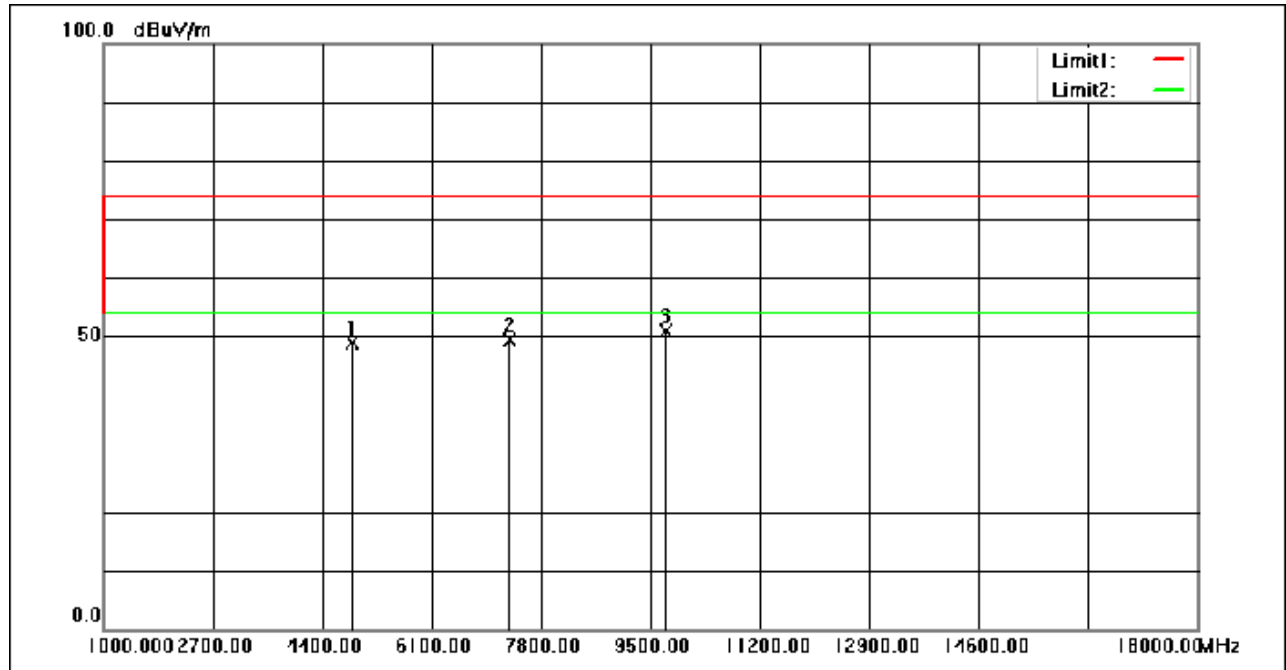
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.53          | -8.61                   | 48.92           | 74.00          | -25.08      | peak   |
| 2   | 7311.000        | 55.23          | -5.78                   | 49.45           | 74.00          | -24.55      | peak   |
| 3   | 9748.000        | 52.40          | -1.43                   | 50.97           | 74.00          | -23.03      | peak   |



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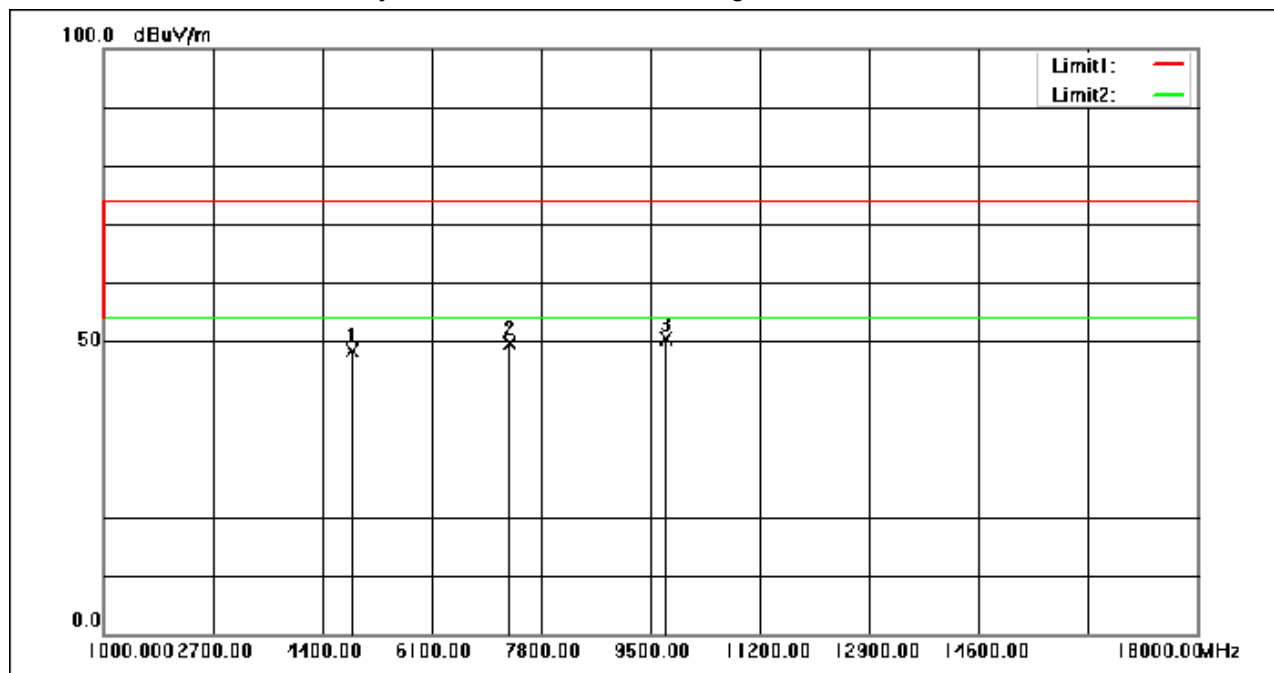
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

Page: 66 of 177

Test Mode: 00; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.00          | -8.61                   | 48.39           | 74.00          | -25.61      | peak   |
| 2   | 7311.000        | 55.40          | -5.78                   | 49.62           | 74.00          | -24.38      | peak   |
| 3   | 9748.000        | 51.88          | -1.43                   | 50.45           | 74.00          | -23.55      | peak   |



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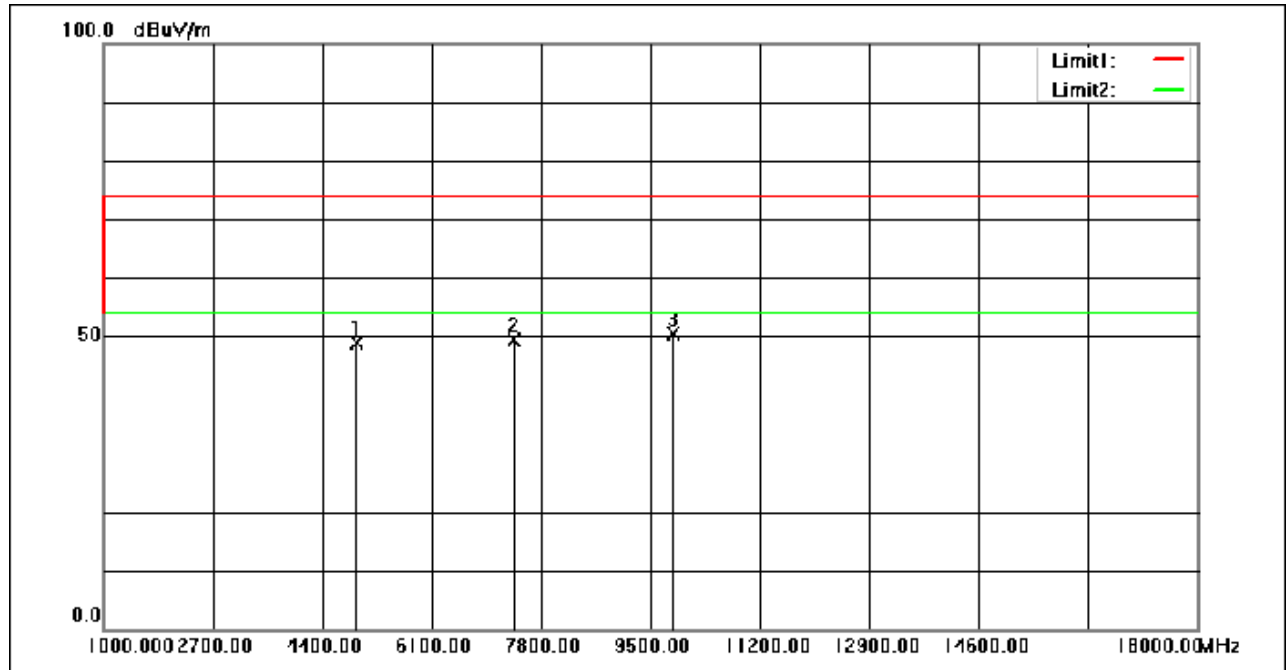
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4924.000        | 57.22          | -8.44                   | 48.78           | 74.00          | -25.22      | peak   |
| 2   | 7386.000        | 54.95          | -5.69                   | 49.26           | 74.00          | -24.74      | peak   |
| 3   | 9848.000        | 51.76          | -1.27                   | 50.49           | 74.00          | -23.51      | peak   |



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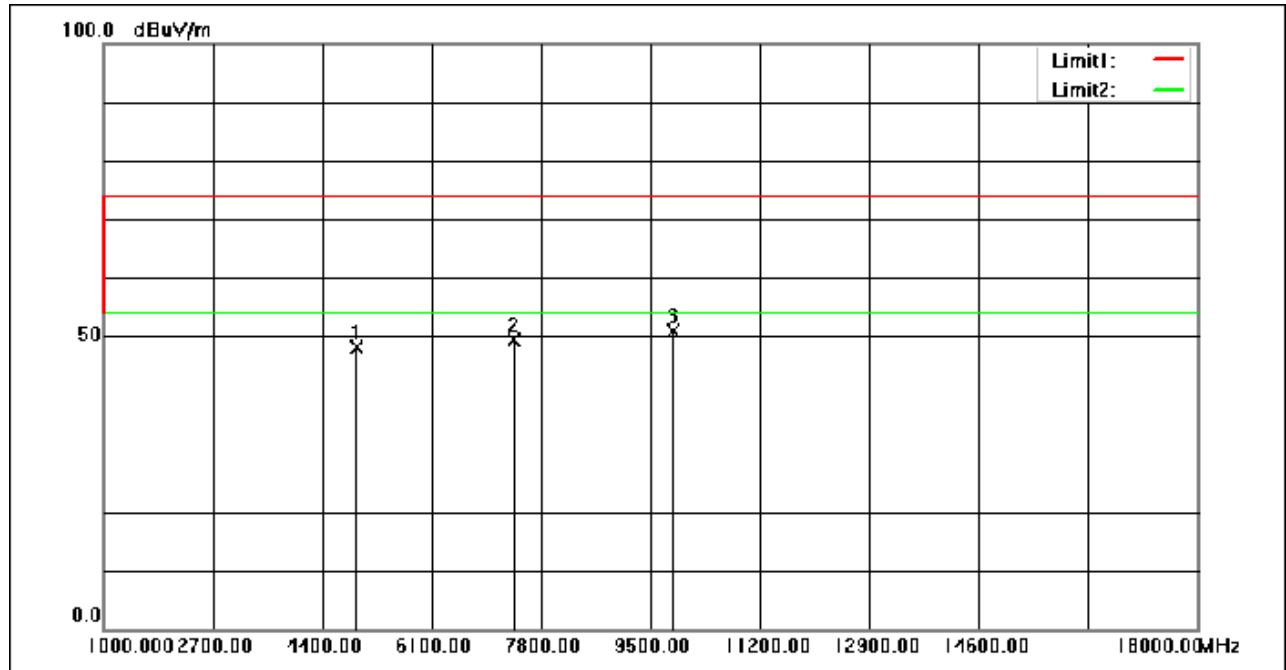
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

Page: 68 of 177

Test Mode: 00; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4924.000        | 56.45          | -8.44                   | 48.01           | 74.00          | -25.99      | peak   |
| 2   | 7386.000        | 54.95          | -5.69                   | 49.26           | 74.00          | -24.74      | peak   |
| 3   | 9848.000        | 52.26          | -1.27                   | 50.99           | 74.00          | -23.01      | peak   |



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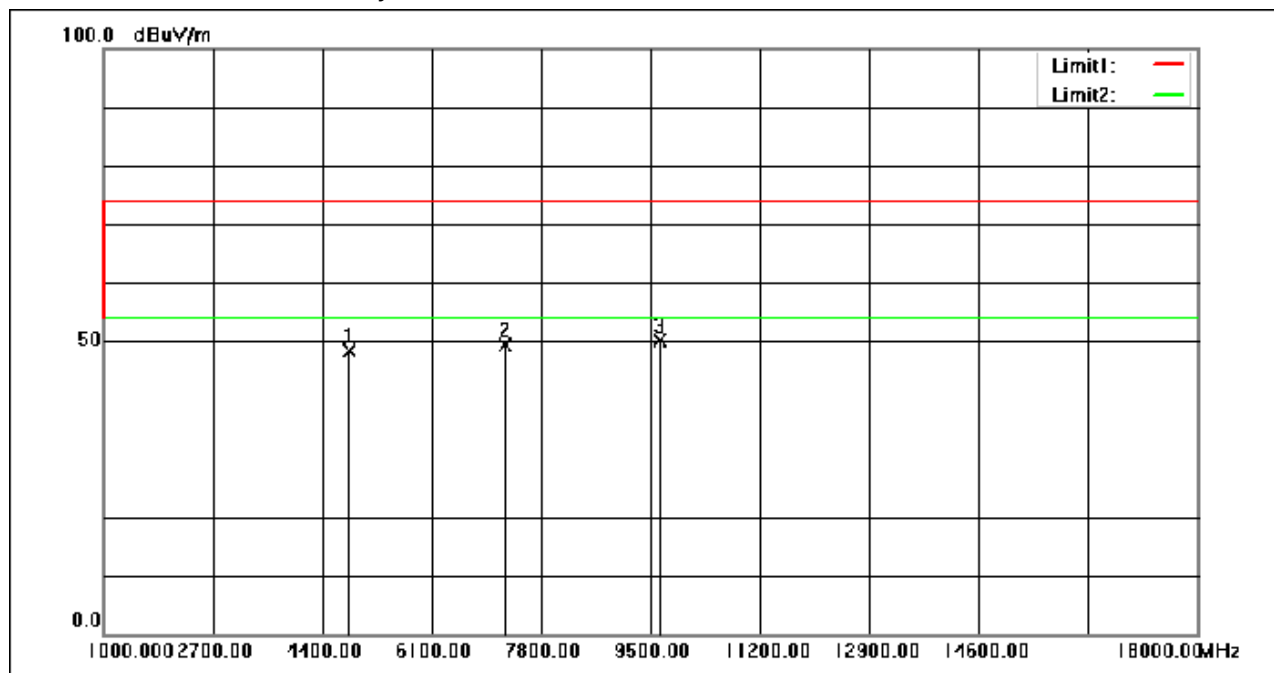
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4824.000        | 57.19          | -8.78                   | 48.41           | 74.00          | -25.59      | peak   |
| 2   | 7236.000        | 55.35          | -5.86                   | 49.49           | 74.00          | -24.51      | peak   |
| 3   | 9648.000        | 51.32          | -1.31                   | 50.01           | 74.00          | -23.99      | peak   |



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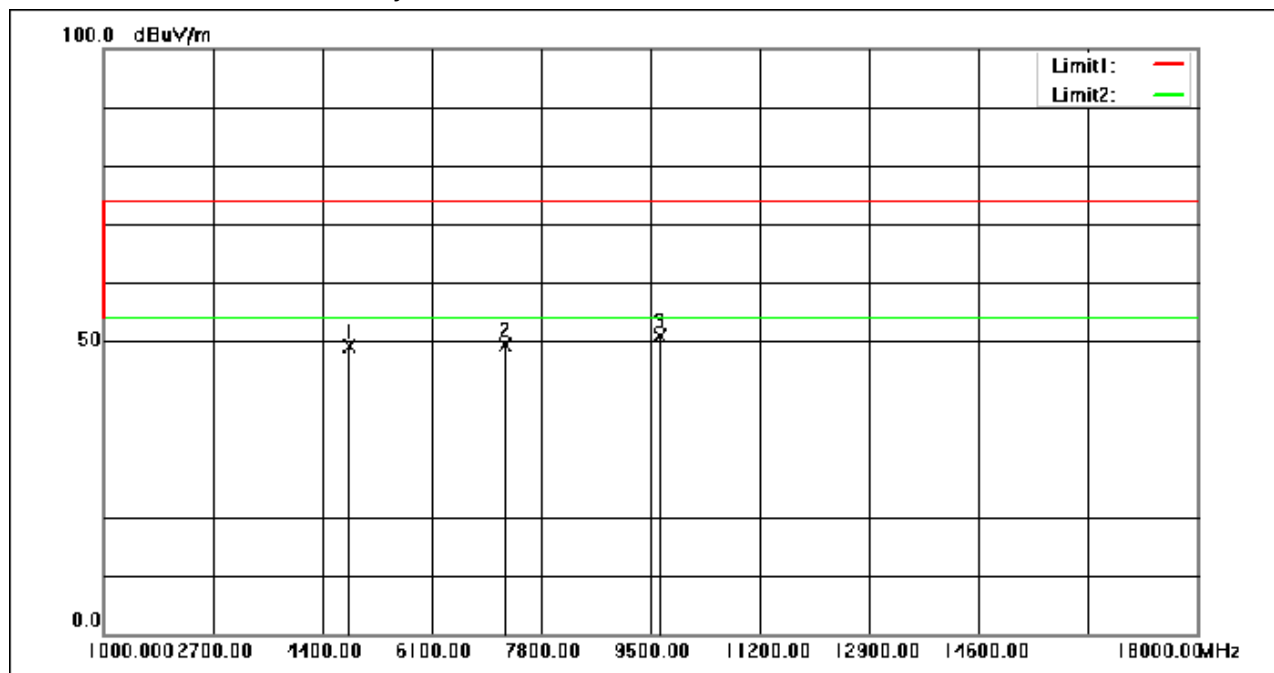
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4824.000        | 57.81          | -8.78                   | 49.03           | 74.00          | -24.97      | peak   |
| 2   | 7236.000        | 55.24          | -5.86                   | 49.38           | 74.00          | -24.62      | peak   |
| 3   | 9648.000        | 52.29          | -1.31                   | 50.98           | 74.00          | -23.02      | peak   |



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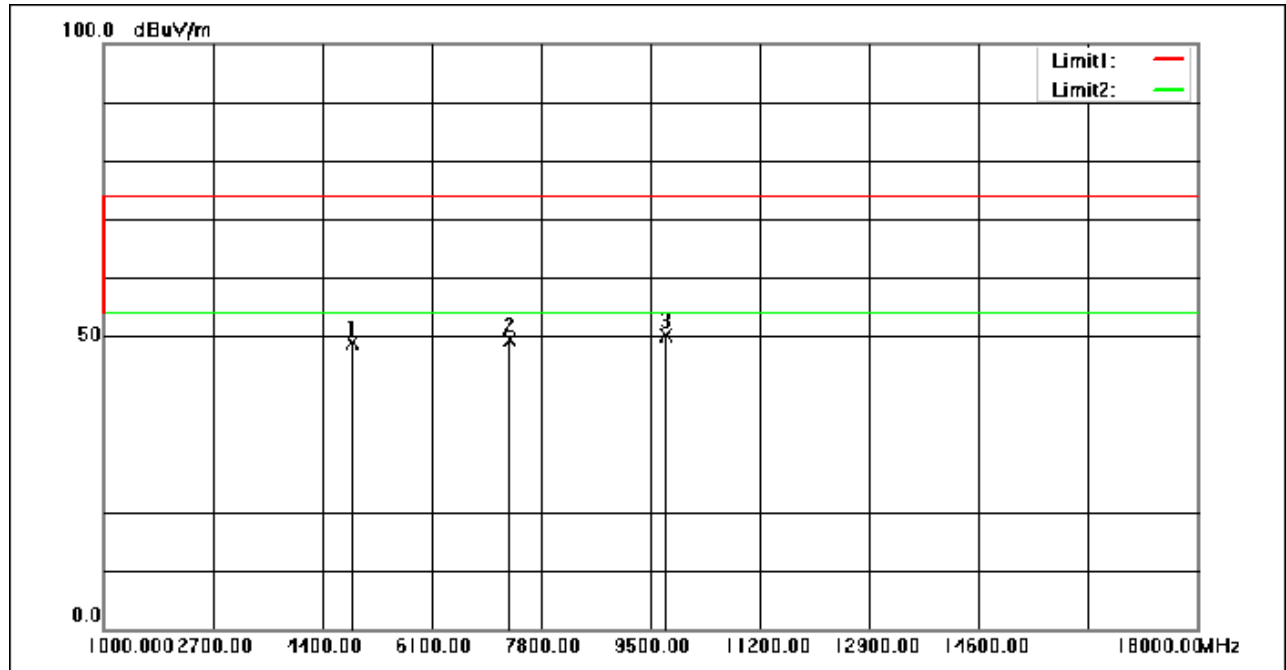
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.40          | -8.61                   | 48.79           | 74.00          | -25.21      | peak   |
| 2   | 7311.000        | 55.10          | -5.78                   | 49.32           | 74.00          | -24.68      | peak   |
| 3   | 9748.000        | 51.56          | -1.43                   | 50.13           | 74.00          | -23.87      | peak   |



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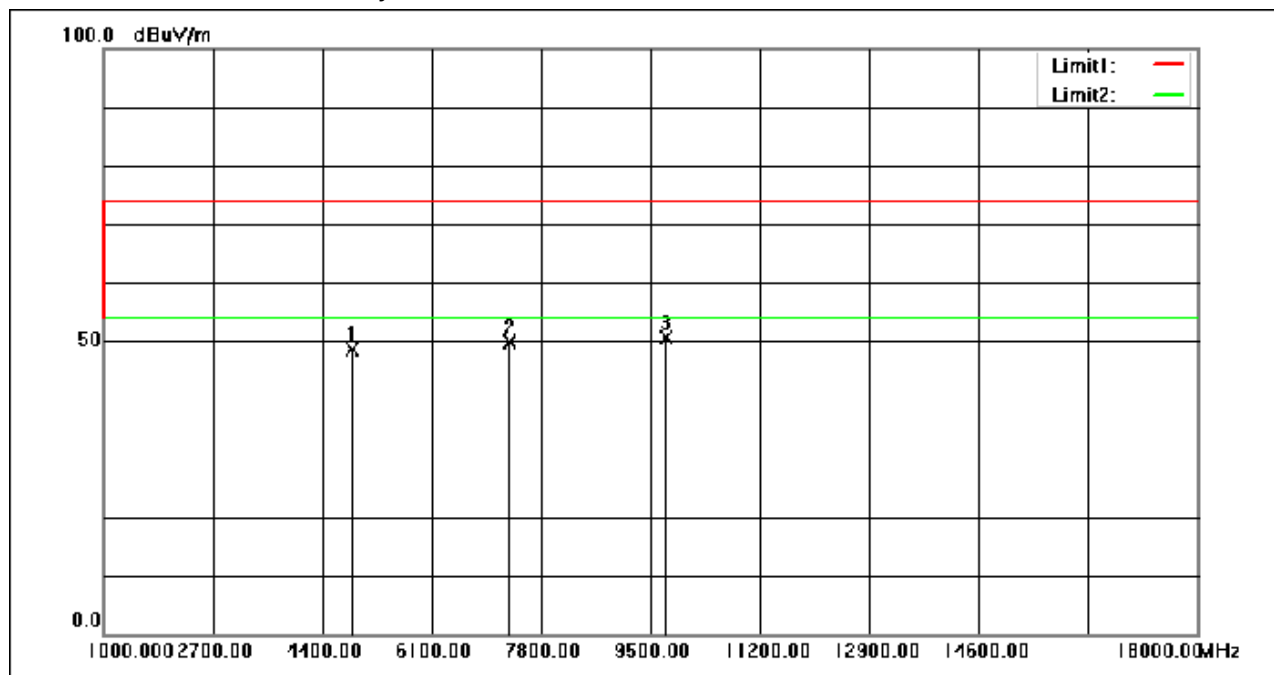
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.29          | -8.61                   | 48.68           | 74.00          | -25.32      | peak   |
| 2   | 7311.000        | 55.75          | -5.78                   | 49.97           | 74.00          | -24.03      | peak   |
| 3   | 9748.000        | 52.08          | -1.43                   | 50.65           | 74.00          | -23.35      | peak   |



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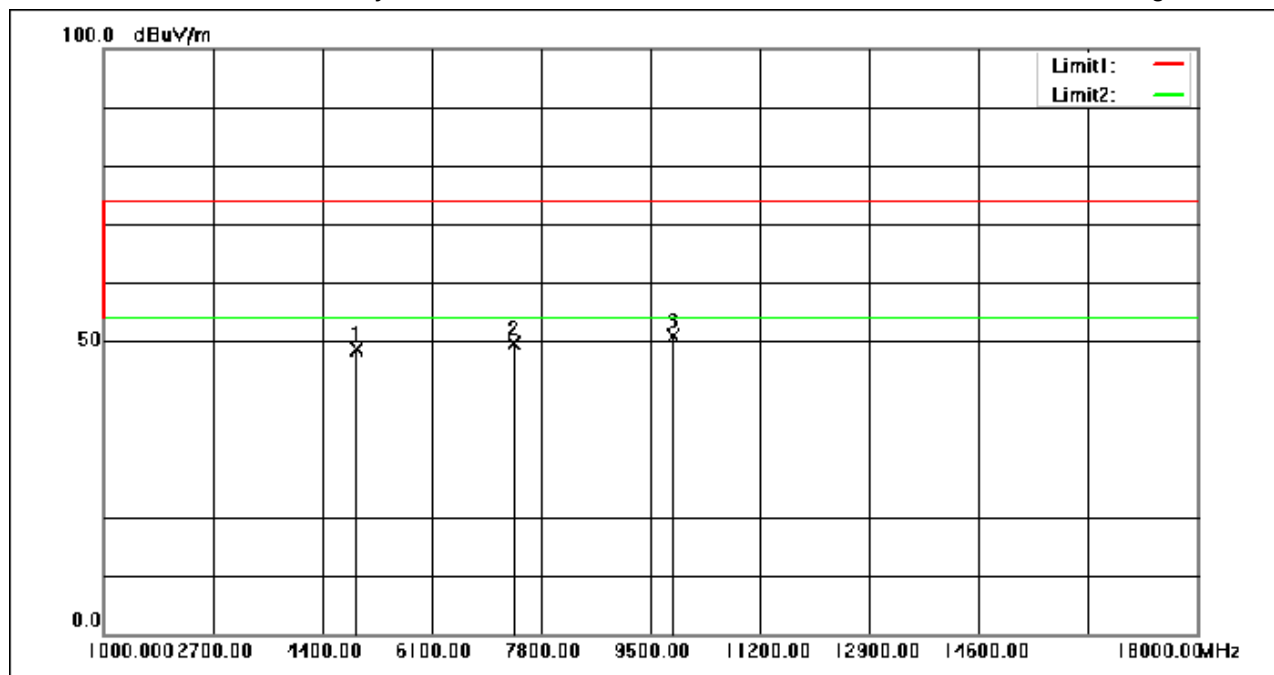
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|--------|
| 1   | 4924.000        | 57.06          | -8.44                    | 48.62           | 74.00          | -25.38      | peak   |
| 2   | 7386.000        | 55.44          | -5.69                    | 49.75           | 74.00          | -24.25      | peak   |
| 3   | 9848.000        | 52.03          | -1.27                    | 50.76           | 74.00          | -23.24      | peak   |



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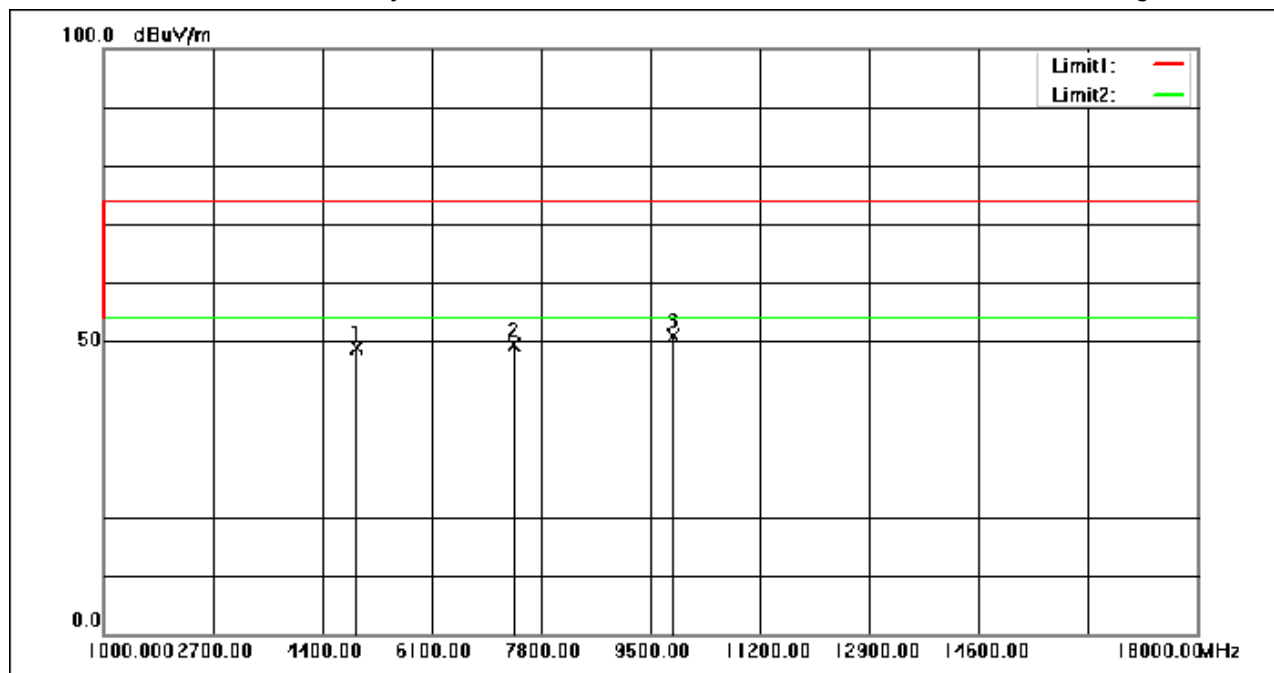
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4924.000        | 57.33          | -8.44                   | 48.89           | 74.00          | -25.11      | peak   |
| 2   | 7386.000        | 55.17          | -5.69                   | 49.48           | 74.00          | -24.52      | peak   |
| 3   | 9848.000        | 52.09          | -1.27                   | 50.82           | 74.00          | -23.18      | peak   |



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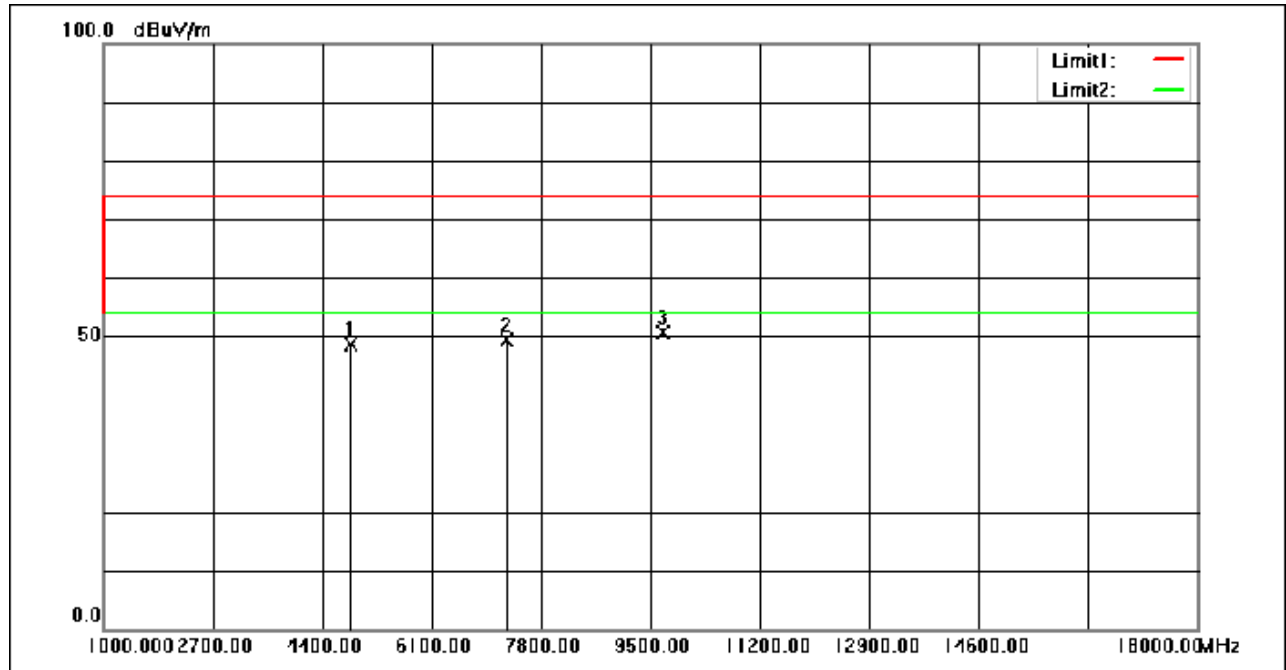
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4844.000        | 57.31          | -8.71                   | 48.60           | 74.00          | -25.40      | peak   |
| 2   | 7266.000        | 55.18          | -5.83                   | 49.35           | 74.00          | -24.65      | peak   |
| 3   | 9688.000        | 52.04          | -1.36                   | 50.68           | 74.00          | -23.32      | peak   |



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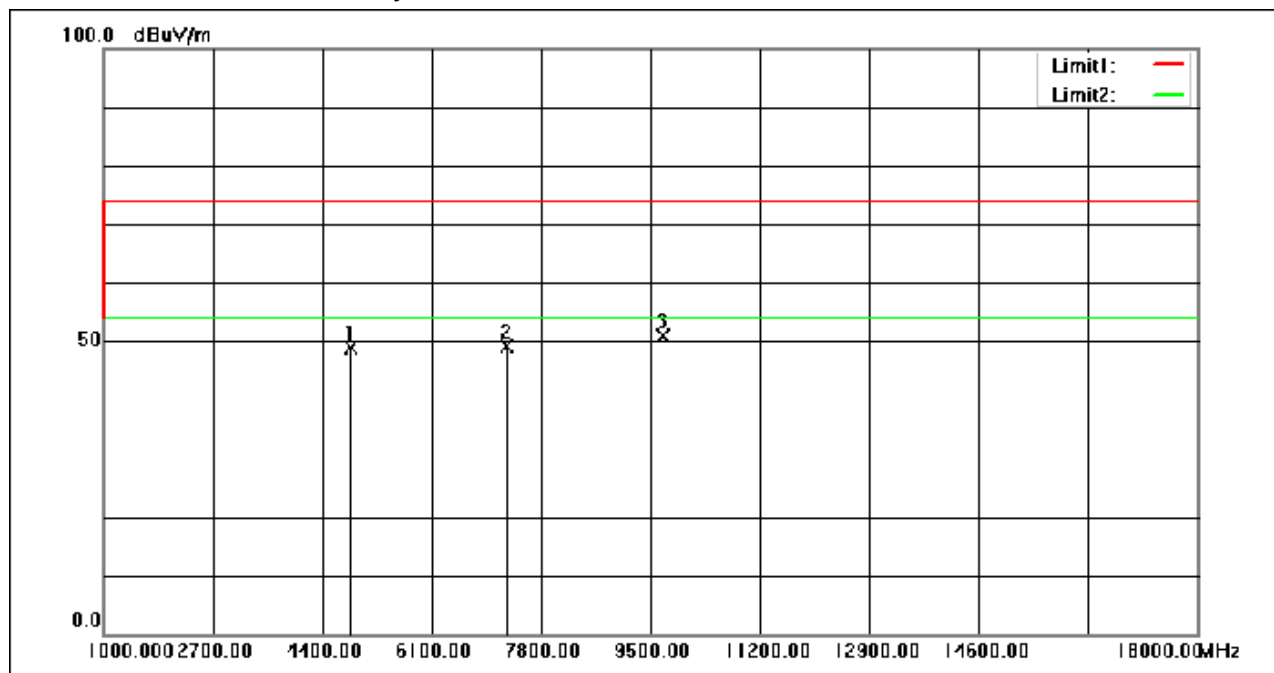
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4844.000        | 57.66          | -8.71                   | 48.95           | 74.00          | -25.05      | peak   |
| 2   | 7266.000        | 55.00          | -5.83                   | 49.17           | 74.00          | -24.83      | peak   |
| 3   | 9688.000        | 52.19          | -1.36                   | 50.83           | 74.00          | -23.17      | peak   |



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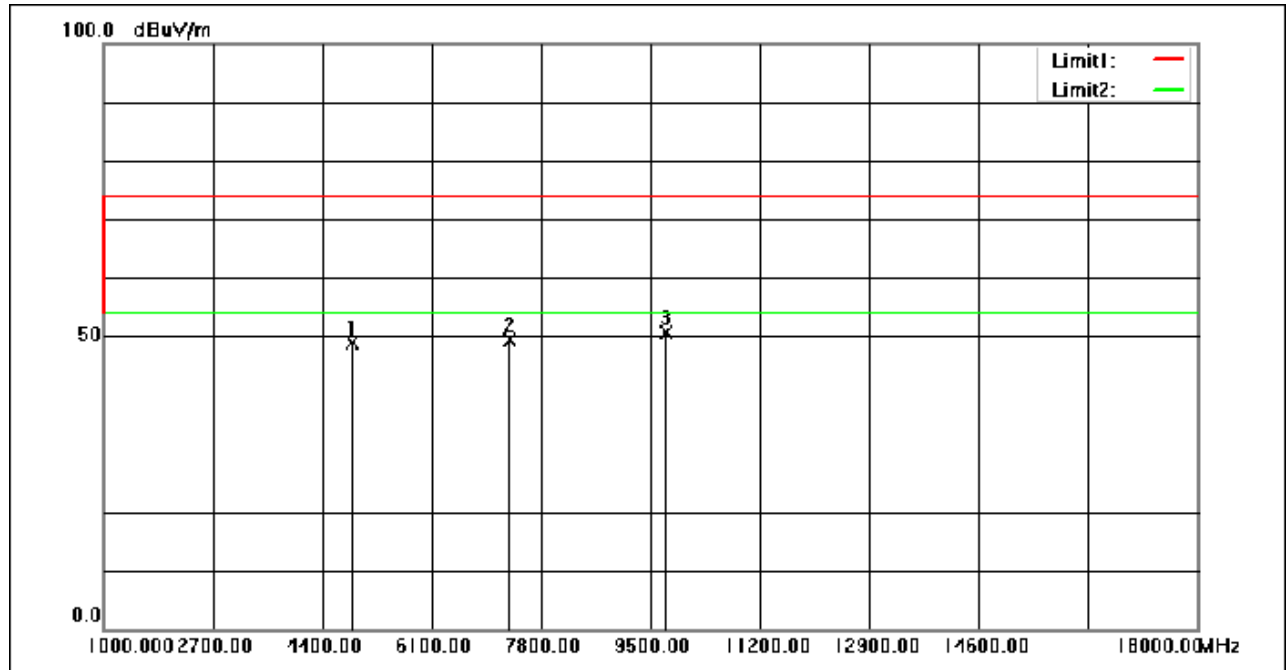
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.45          | -8.61                   | 48.84           | 74.00          | -25.16      | peak   |
| 2   | 7311.000        | 55.07          | -5.78                   | 49.29           | 74.00          | -24.71      | peak   |
| 3   | 9748.000        | 52.11          | -1.43                   | 50.68           | 74.00          | -23.32      | peak   |



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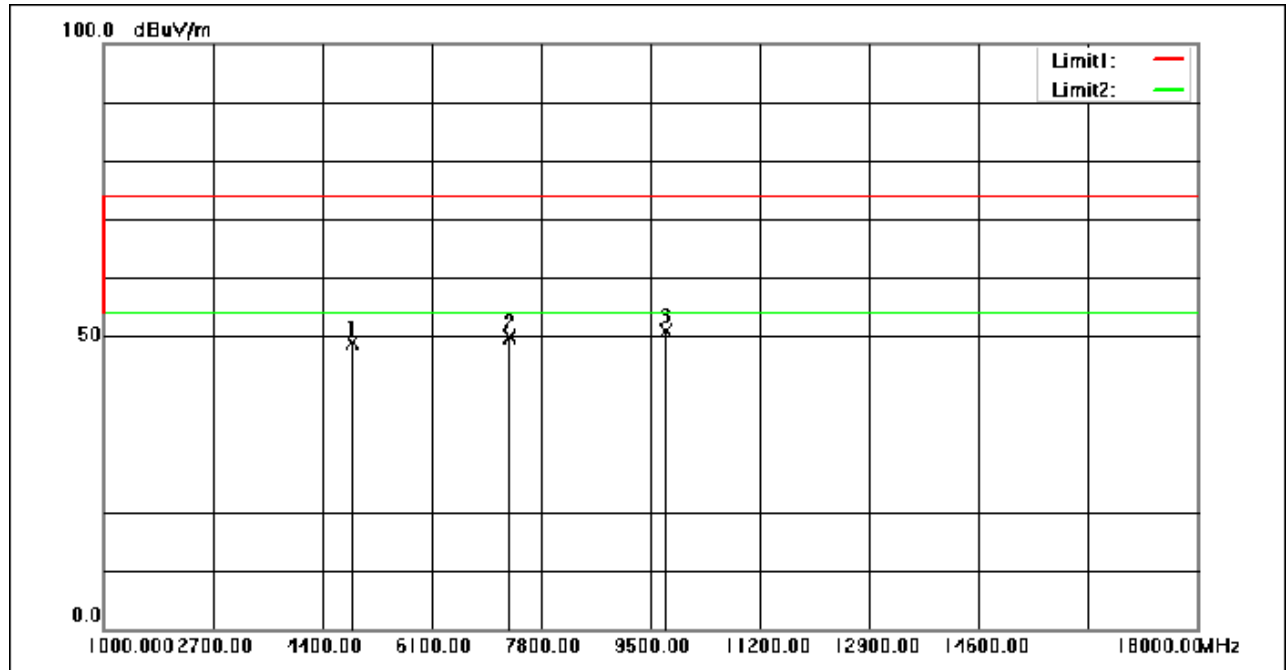
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4874.000        | 57.38          | -8.61                   | 48.77           | 74.00          | -25.23      | peak   |
| 2   | 7311.000        | 55.56          | -5.78                   | 49.78           | 74.00          | -24.22      | peak   |
| 3   | 9748.000        | 52.22          | -1.43                   | 50.79           | 74.00          | -23.21      | peak   |



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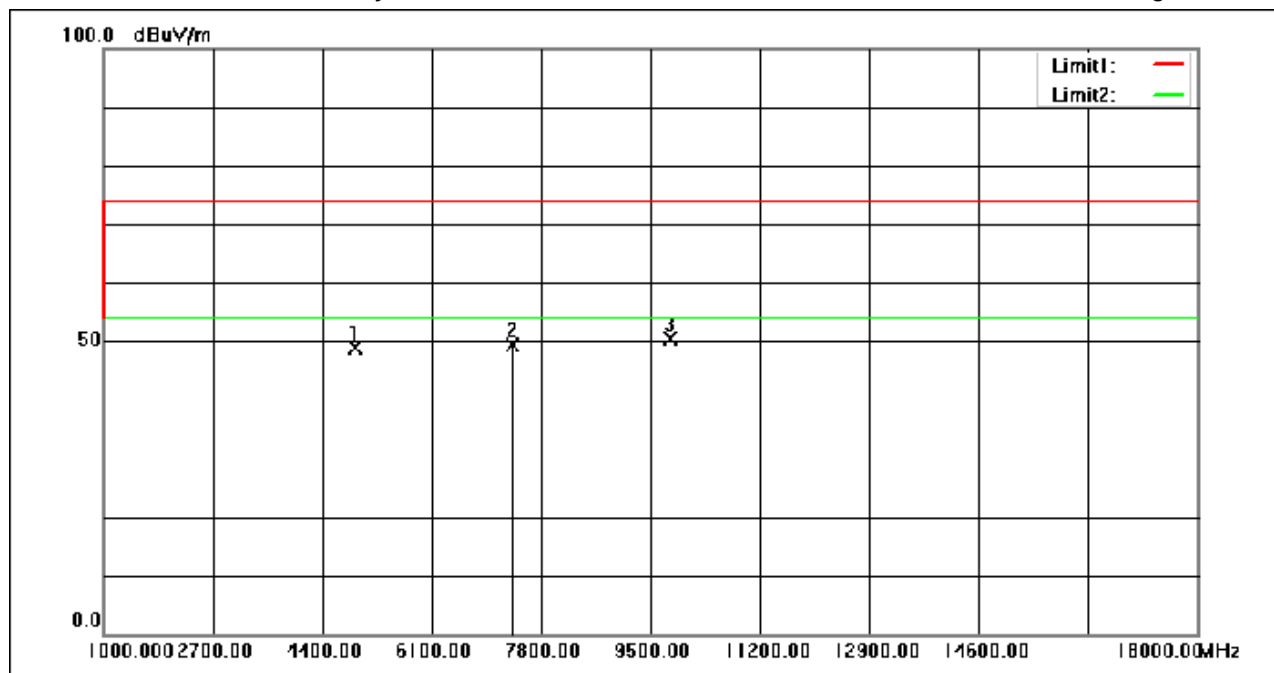
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4904.000        | 57.50          | -8.51                   | 48.99           | 74.00          | -25.01      | peak   |
| 2   | 7356.000        | 55.09          | -5.73                   | 49.36           | 74.00          | -24.64      | peak   |
| 3   | 9808.000        | 51.82          | -1.47                   | 50.35           | 74.00          | -23.65      | peak   |



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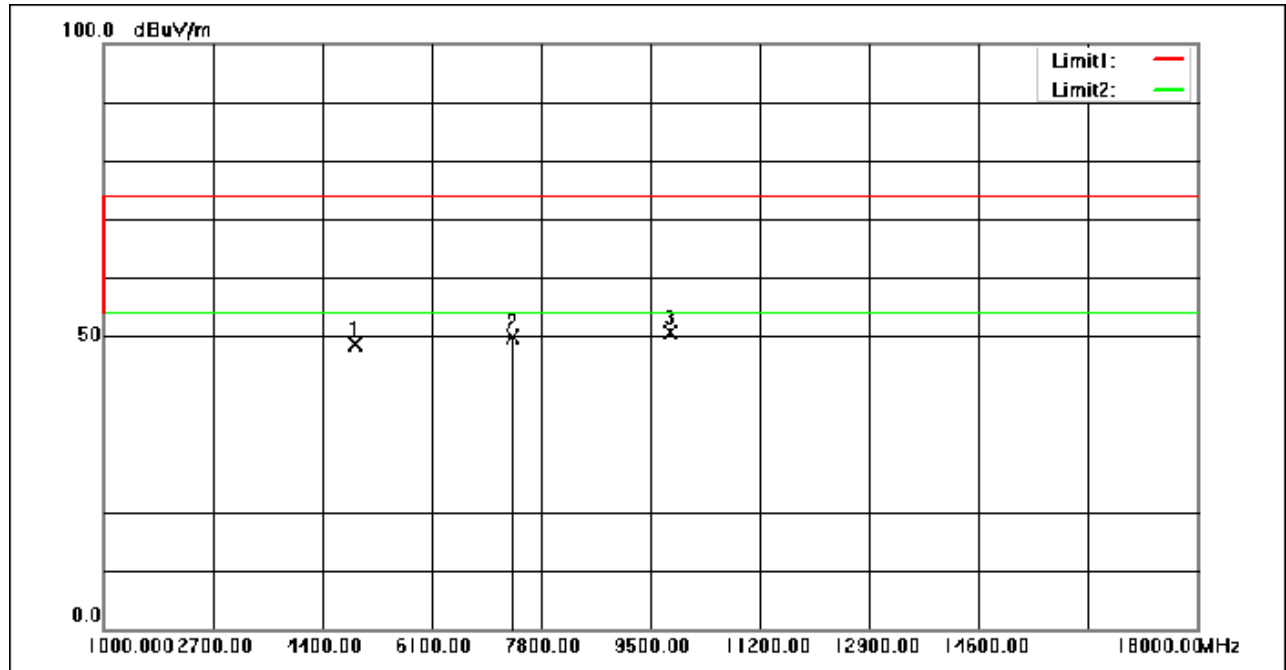
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1   | 4904.000        | 57.17          | -8.51                   | 48.66           | 74.00          | -25.34      | peak   |
| 2   | 7356.000        | 55.56          | -5.73                   | 49.83           | 74.00          | -24.17      | peak   |
| 3   | 9808.000        | 52.09          | -1.47                   | 50.62           | 74.00          | -23.38      | peak   |



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Report No.: KSCR221000189001

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### 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2210001890AT

### 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2210001890AT



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## 10 Appendix

### Appendix for KSCR221000189001AT

| Channel | 802.11b       |       | 802.11g |       | 802.11n(HT20) |       |
|---------|---------------|-------|---------|-------|---------------|-------|
|         | Ant 1         | Ant 2 | Ant 1   | Ant 2 | Ant 1         | Ant 2 |
| 1       | 15.5          | 15.5  | 14.5    | 15    | 15.5          | 15    |
| 6       | 15            | 15    | 15      | 15    | 15            | 15    |
| 11      | 15            | 15    | 15      | 15    | 15            | 15    |
| Channel | 802.11n(HT40) |       |         |       |               |       |
|         | Ant 1         | Ant 2 |         |       |               |       |
| 3       | 13.5          | 15    |         |       |               |       |
| 6       | 15            | 15    |         |       |               |       |
| 9       | 15            | 15    |         |       |               |       |

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | Tx Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 8.384     | 8.440       | 99.34          | 0.03                              | 0.04                  |
|                |         | 2437            | 8.386     | 8.440       | 99.36          | 0.03                              | 0.00                  |
|                |         | 2462            | 8.387     | 8.440       | 99.37          | 0.03                              | 0.00                  |
| 802.11g        | SISO    | 2412            | 1.392     | 1.454       | 95.74          | 0.19                              | 0.04                  |
|                |         | 2437            | 1.394     | 1.455       | 95.81          | 0.19                              | 0.04                  |
|                |         | 2462            | 1.394     | 1.455       | 95.81          | 0.19                              | 0.03                  |
| 802.11n (HT20) | MIMO    | 2412            | 1.301     | 1.363       | 95.45          | 0.20                              | 0.07                  |
|                |         | 2437            | 1.301     | 1.362       | 95.52          | 0.20                              | 0.03                  |
|                |         | 2462            | 1.302     | 1.363       | 95.52          | 0.20                              | 0.07                  |
| 802.11n (HT40) | MIMO    | 2422            | 0.649     | 0.710       | 91.41          | 0.39                              | 0.09                  |
|                |         | 2437            | 0.649     | 0.711       | 91.28          | 0.40                              | 0.06                  |
|                |         | 2452            | 0.650     | 0.711       | 91.42          | 0.39                              | 0.13                  |



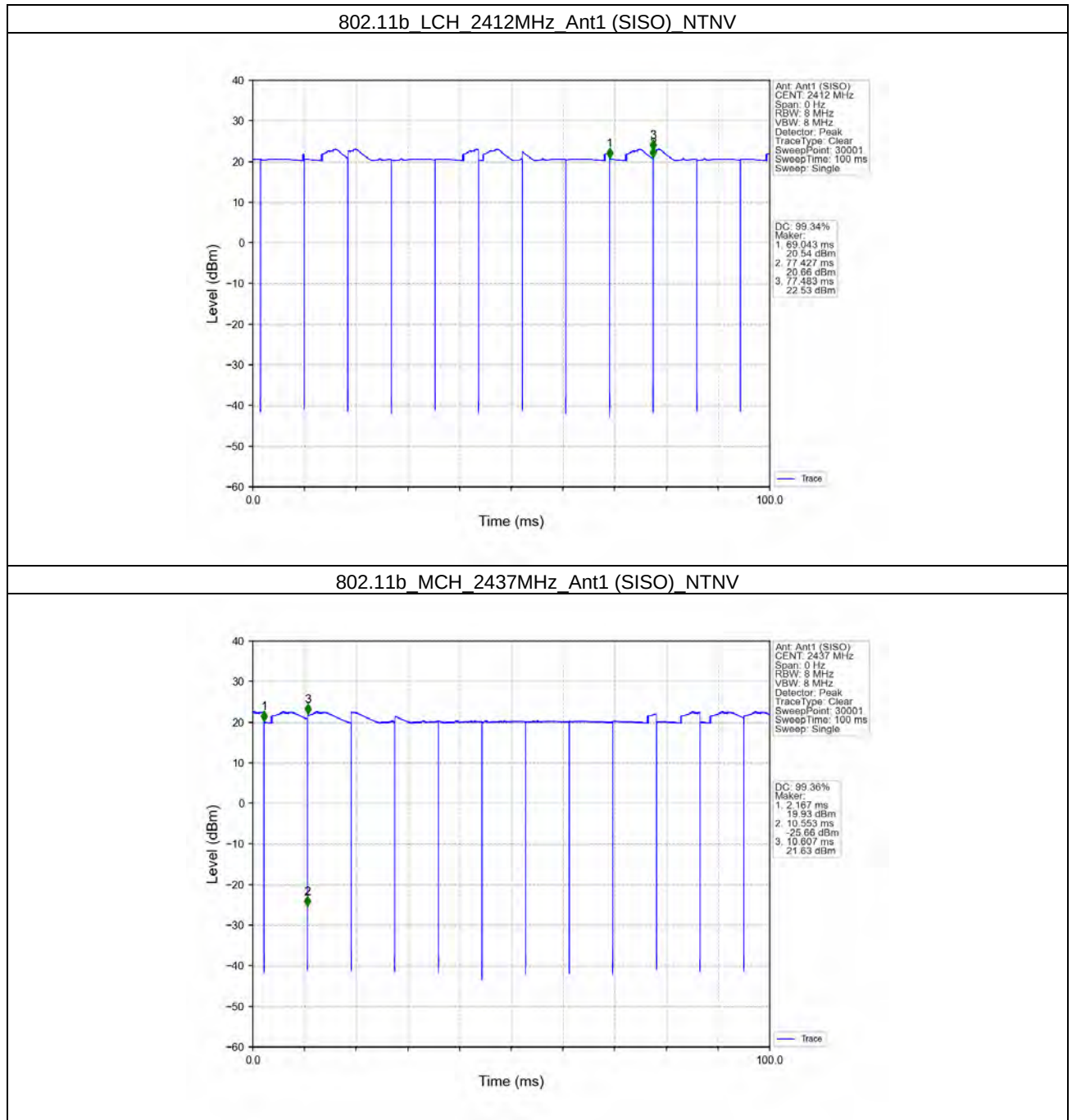
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### 1.1.2 Test Graph



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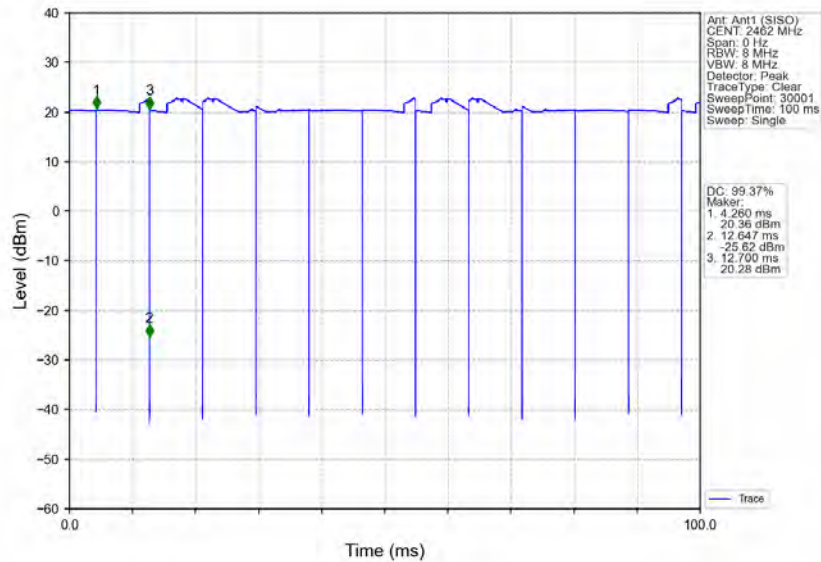
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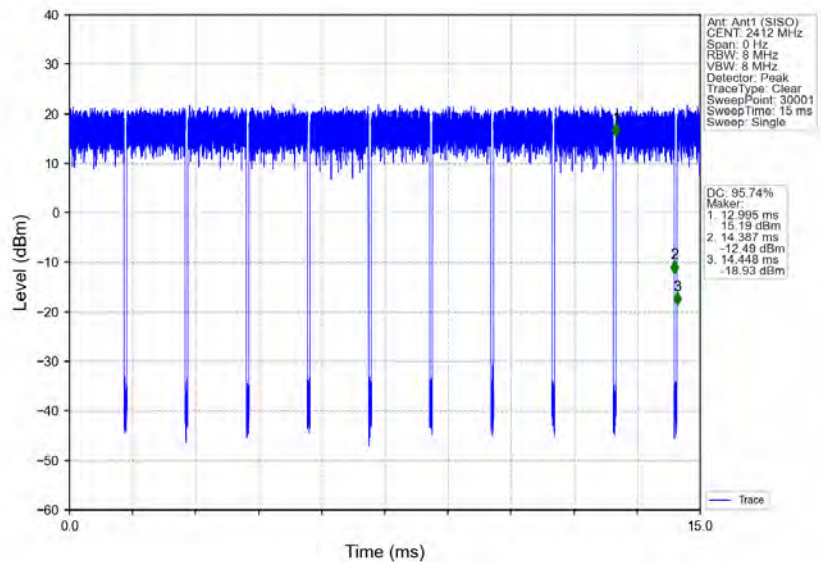
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### 802.11b HCH 2462MHz Ant1 (SISO) NTNV



### 802.11g LCH 2412MHz Ant1 (SISO) NTNV



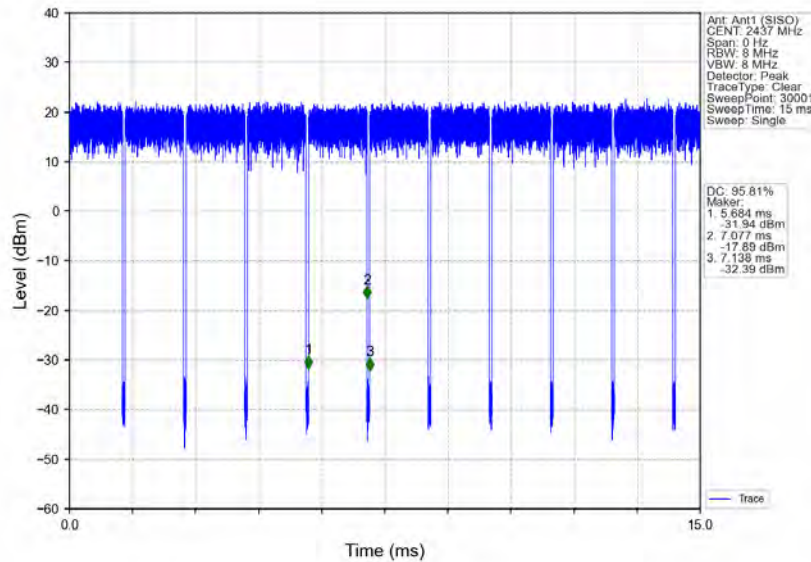
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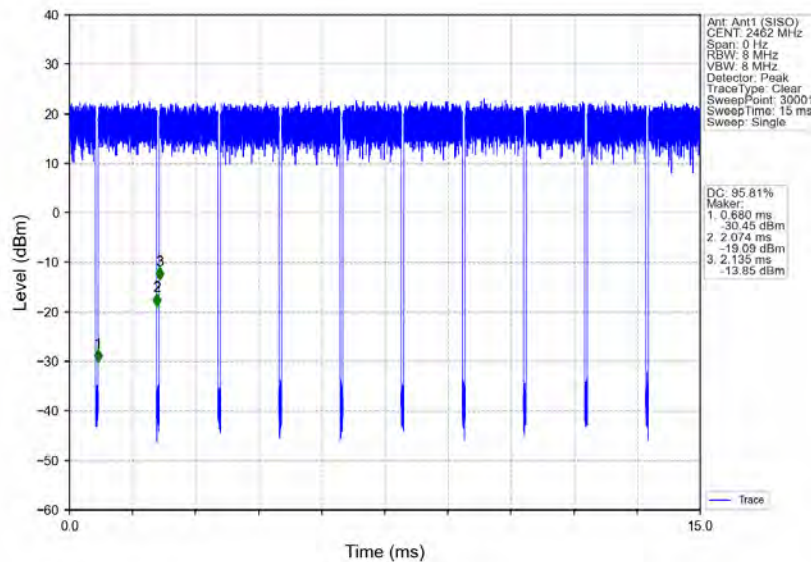
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



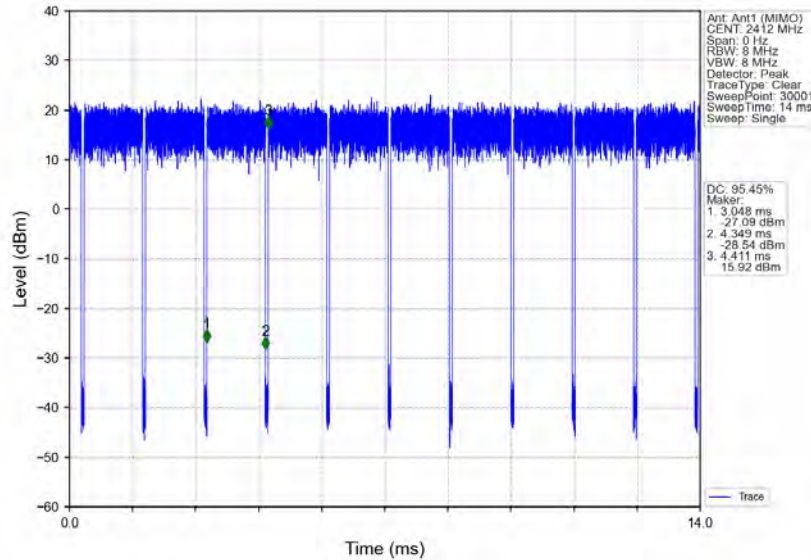
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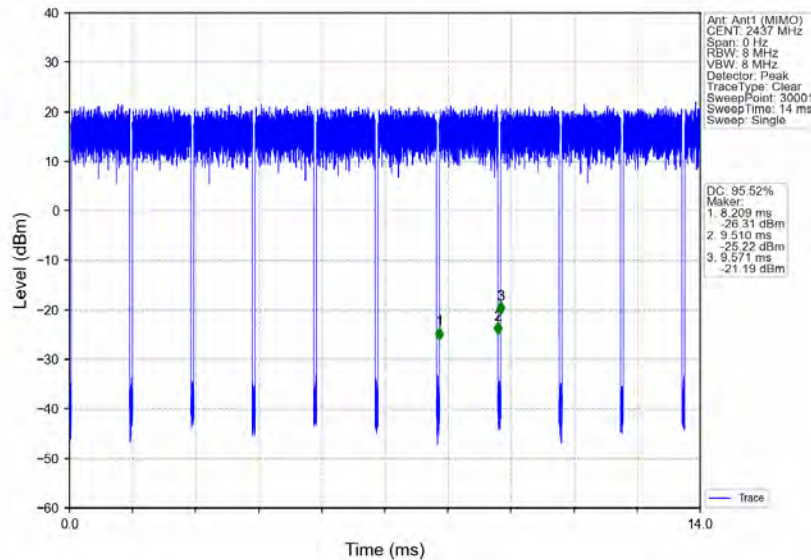
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTN



802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



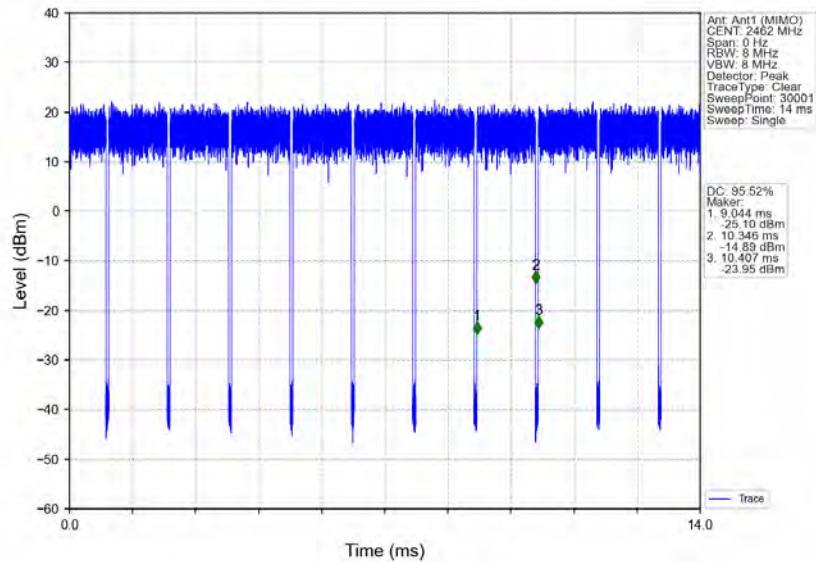
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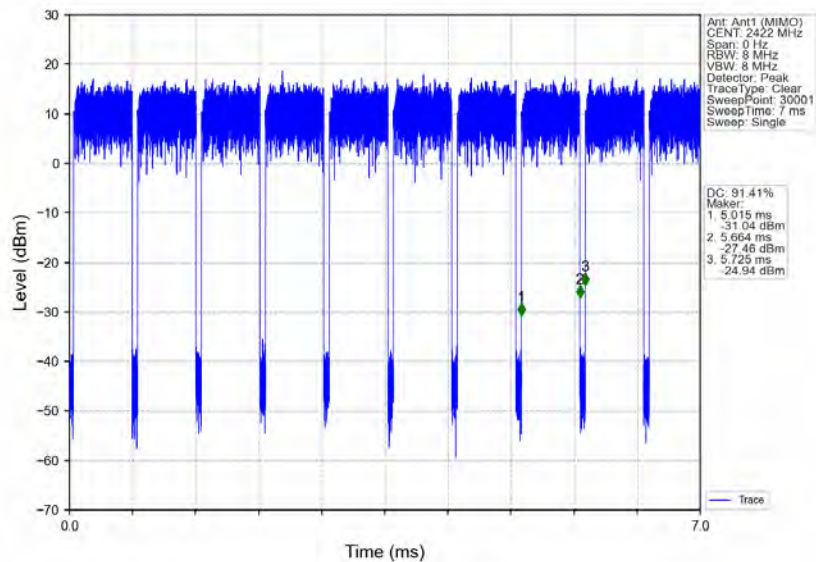
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



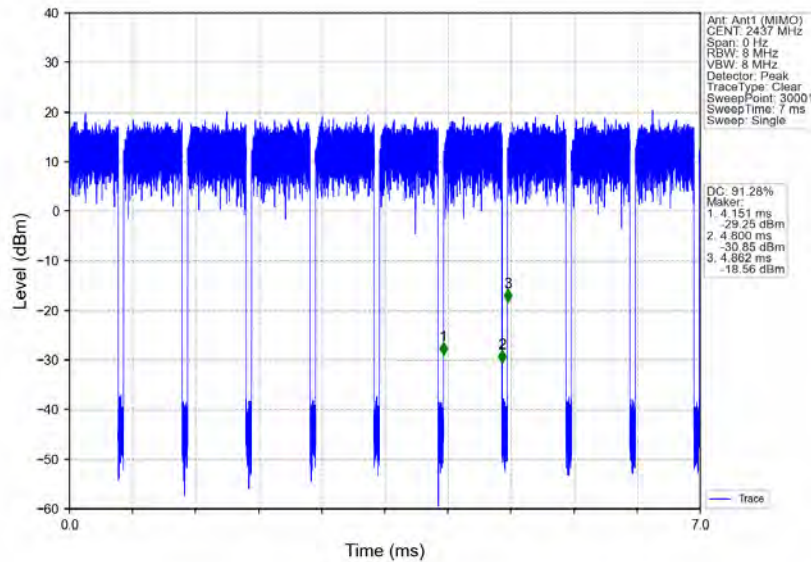
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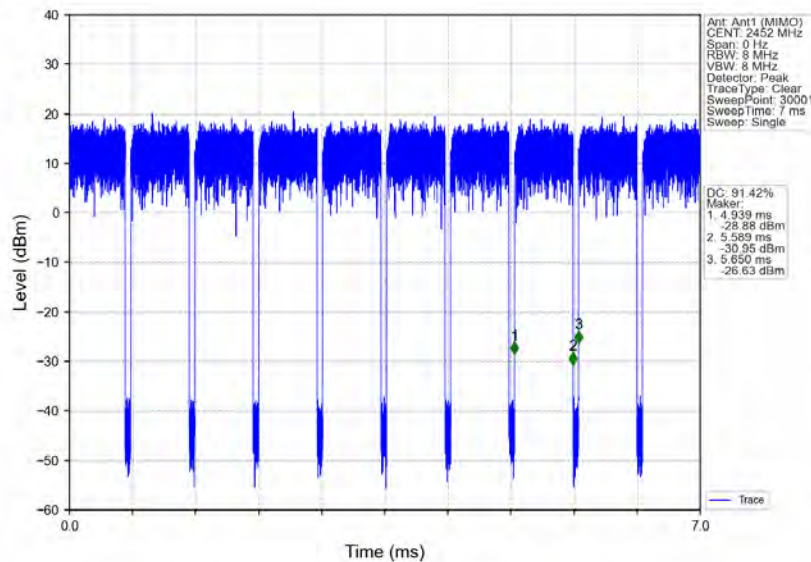
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802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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### 2. Bandwidth

#### 2.1 OBW

##### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
|                |         |                 |     | Result                       |         |
| 802.11b        | SISO    | 2412            | 1   | 13.832                       | Pass    |
|                |         |                 | 2   | 13.849                       | Pass    |
|                |         | 2437            | 1   | 13.974                       | Pass    |
|                |         |                 | 2   | 13.876                       | Pass    |
|                |         | 2462            | 1   | 14.085                       | Pass    |
|                |         |                 | 2   | 13.919                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.633                       | Pass    |
|                |         |                 | 2   | 16.952                       | Pass    |
|                |         | 2437            | 1   | 17.857                       | Pass    |
|                |         |                 | 2   | 16.986                       | Pass    |
|                |         | 2462            | 1   | 17.826                       | Pass    |
|                |         |                 | 2   | 16.966                       | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 18.718                       | Pass    |
|                |         |                 | 2   | 17.780                       | Pass    |
|                |         | 2437            | 1   | 18.571                       | Pass    |
|                |         |                 | 2   | 17.807                       | Pass    |
|                |         | 2462            | 1   | 18.579                       | Pass    |
|                |         |                 | 2   | 17.814                       | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 36.696                       | Pass    |
|                |         |                 | 2   | 36.874                       | Pass    |
|                |         | 2437            | 1   | 37.086                       | Pass    |
|                |         |                 | 2   | 36.914                       | Pass    |
|                |         | 2452            | 1   | 37.150                       | Pass    |
|                |         |                 | 2   | 36.964                       | Pass    |



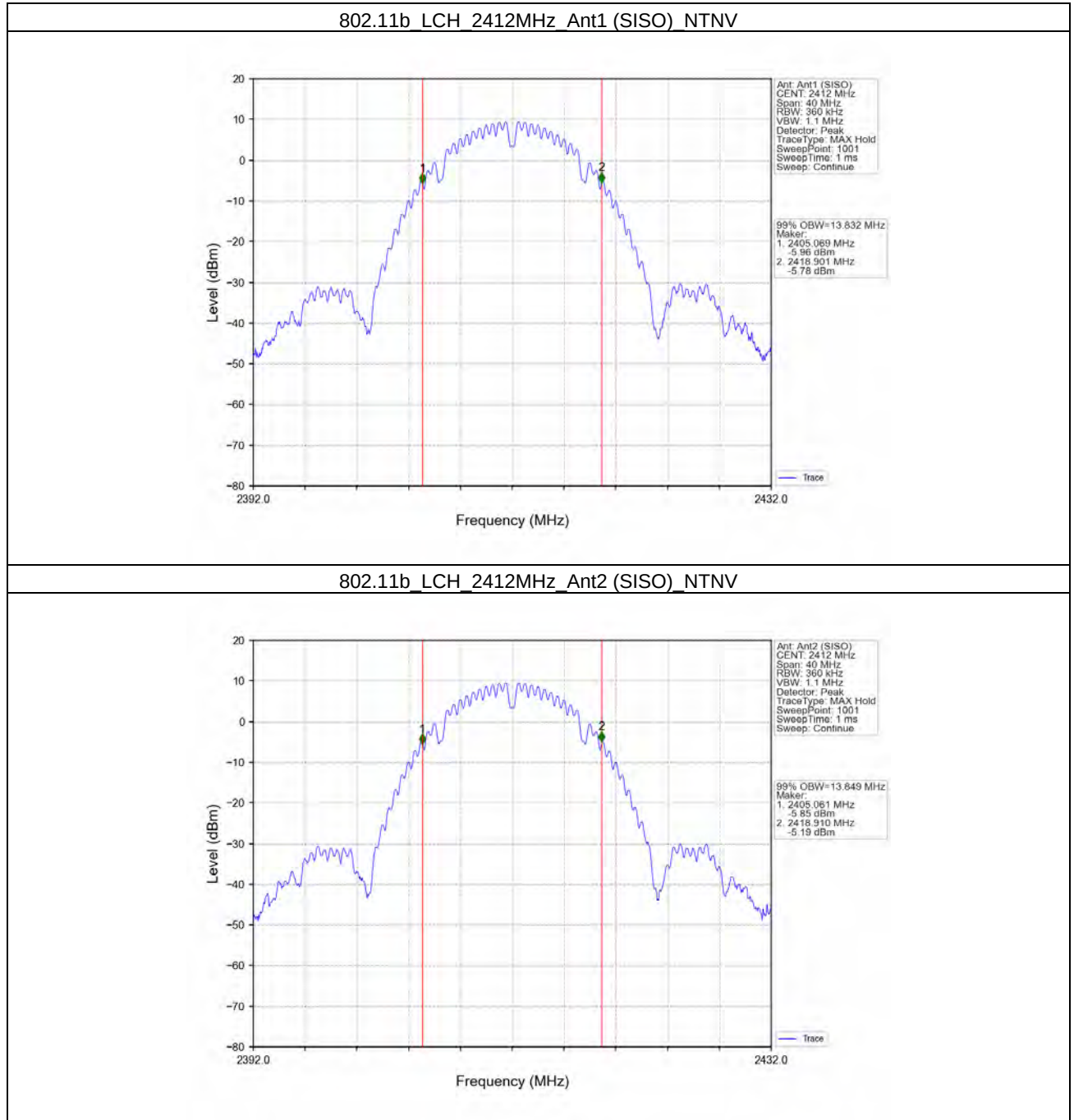
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### 2.1.2 Test Graph



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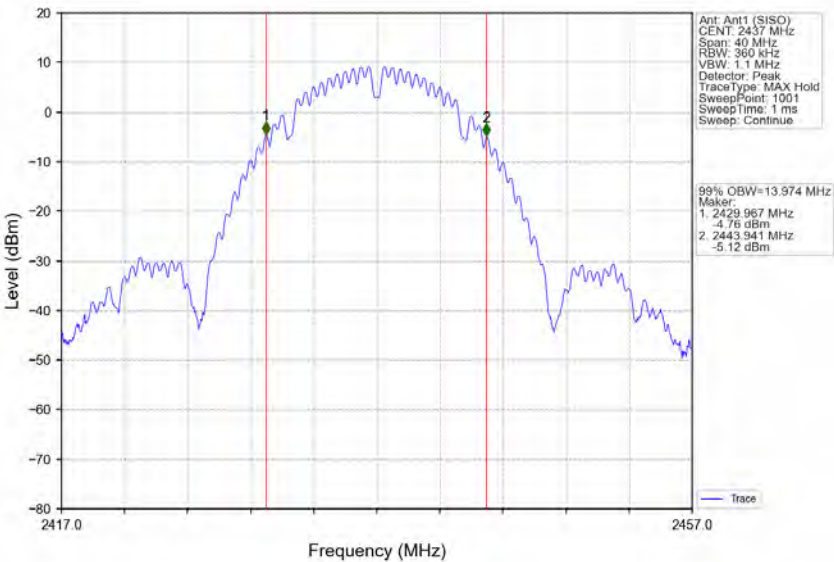
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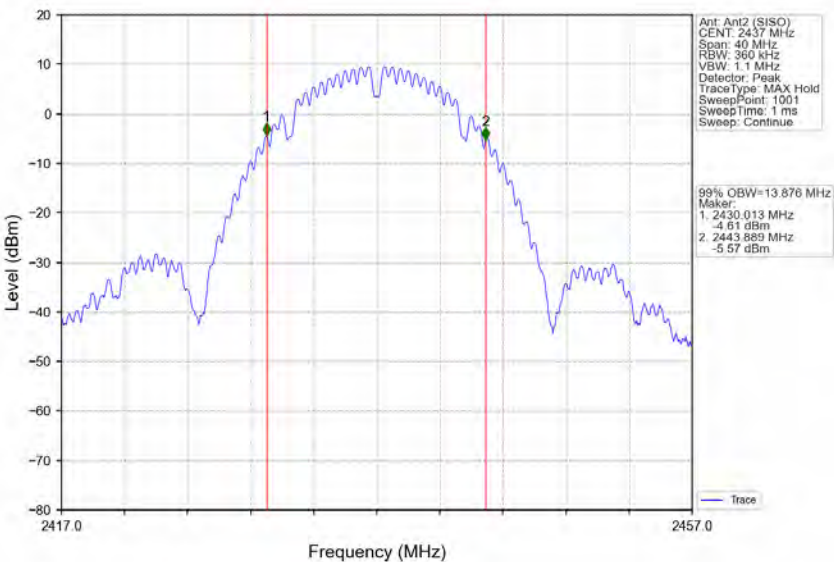
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



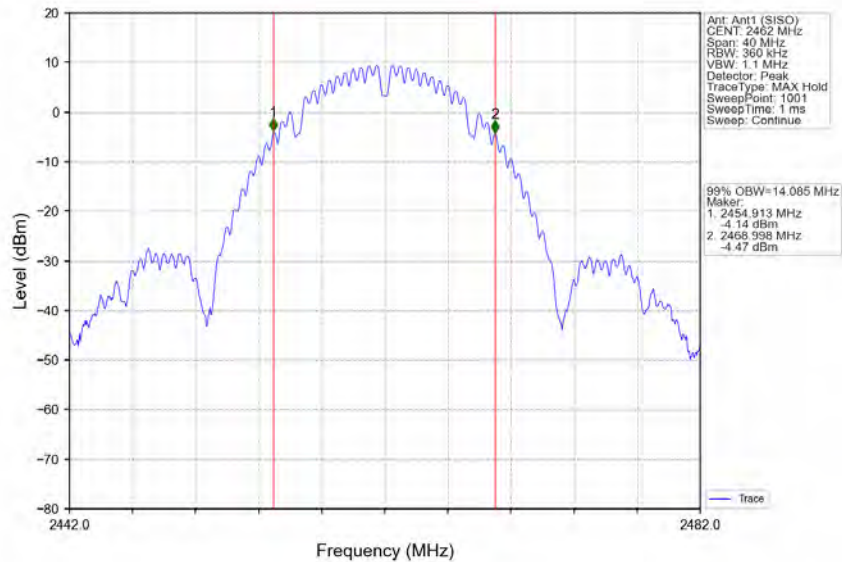
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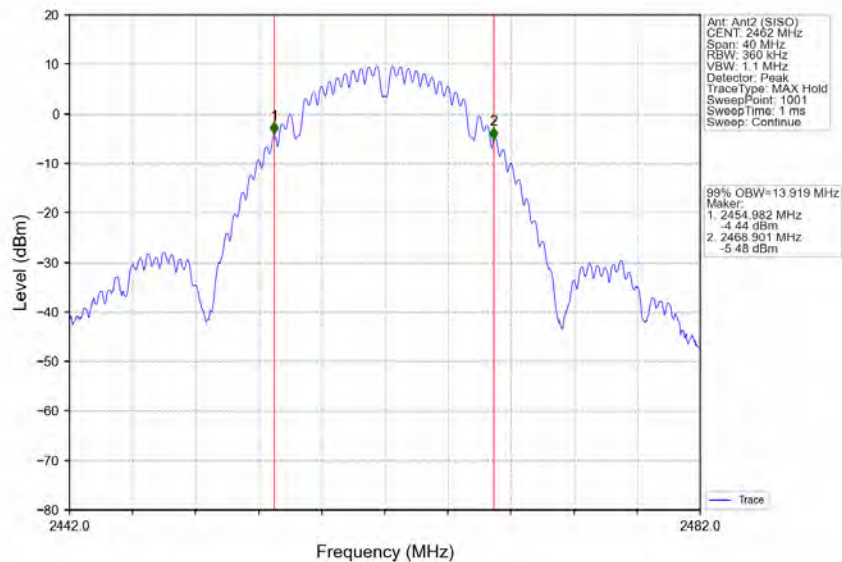
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802.11b HCH 2462MHz Ant1 (SISO) NTNv



802.11b HCH 2462MHz Ant2 (SISO) NTNv



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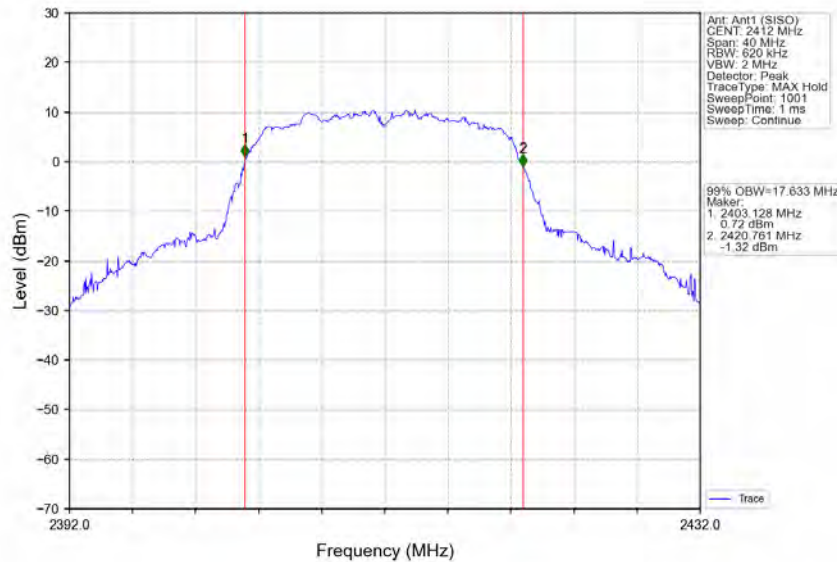
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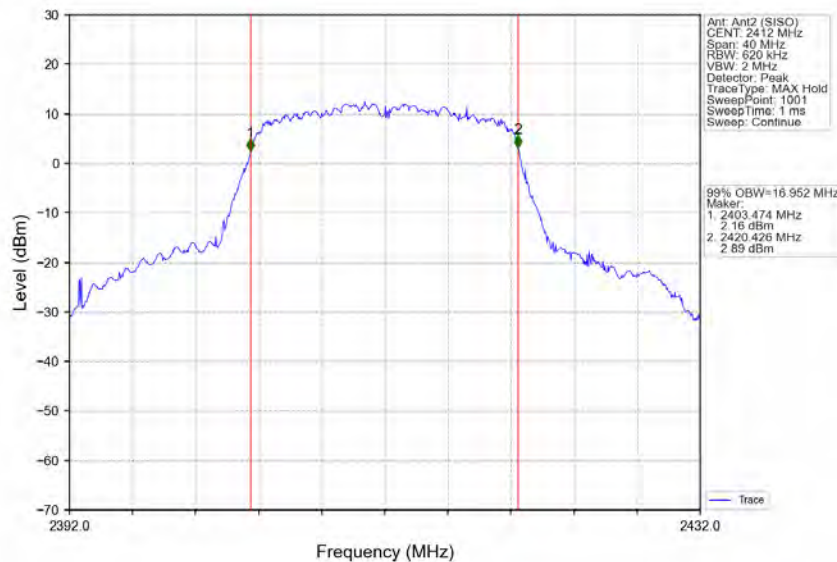
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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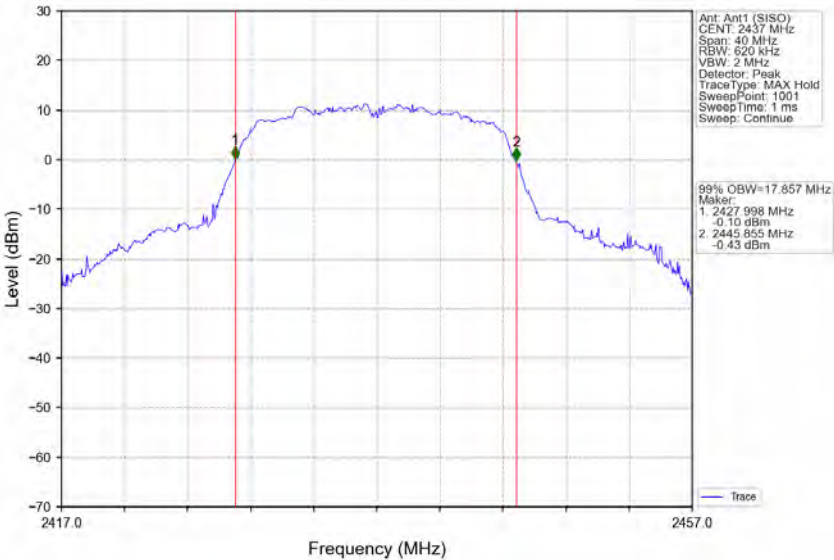
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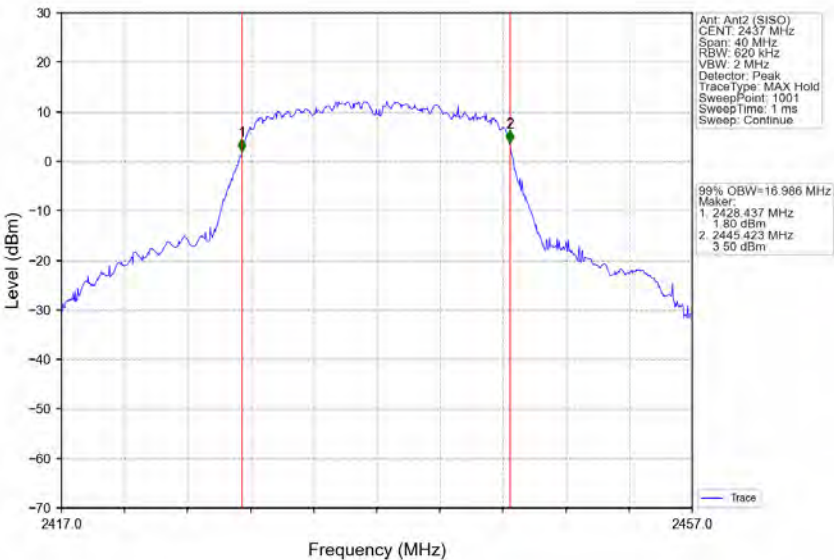
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g MCH 2437MHz Ant2 (SISO) NTN



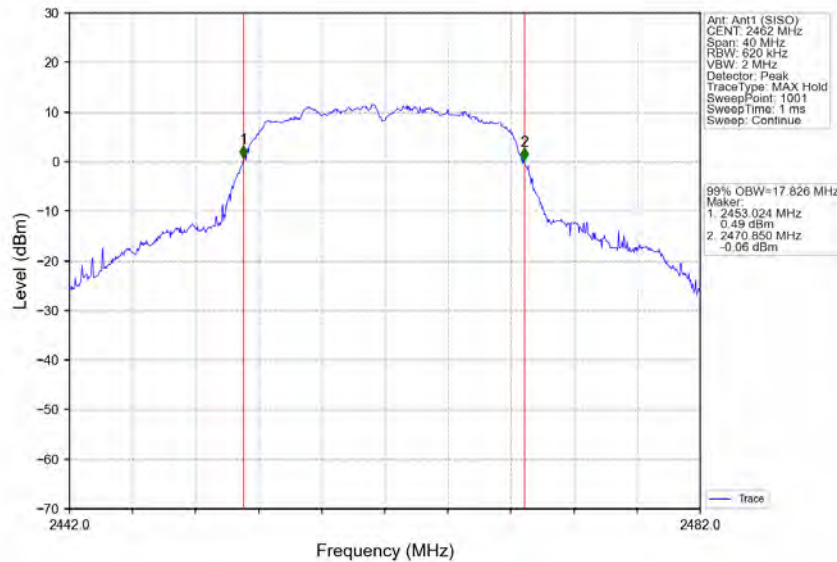
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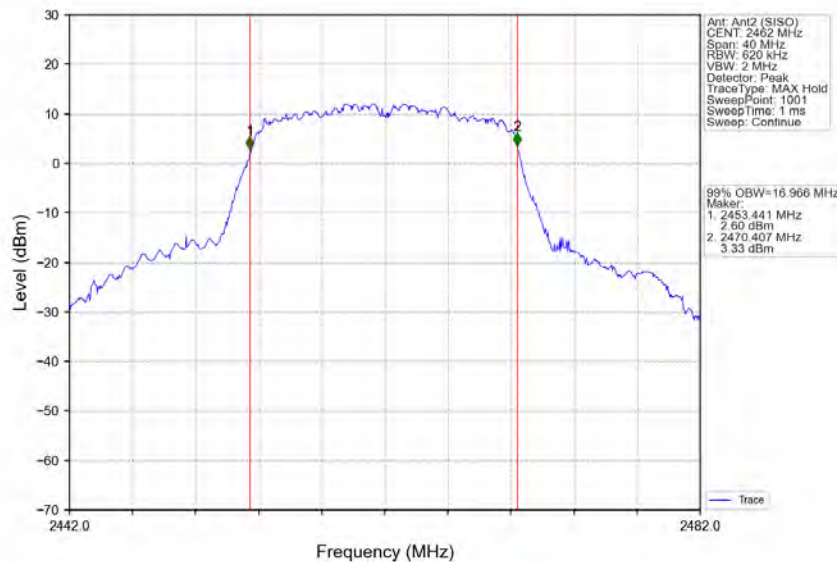
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802.11g HCH 2462MHz Ant1 (SISO) NTNv



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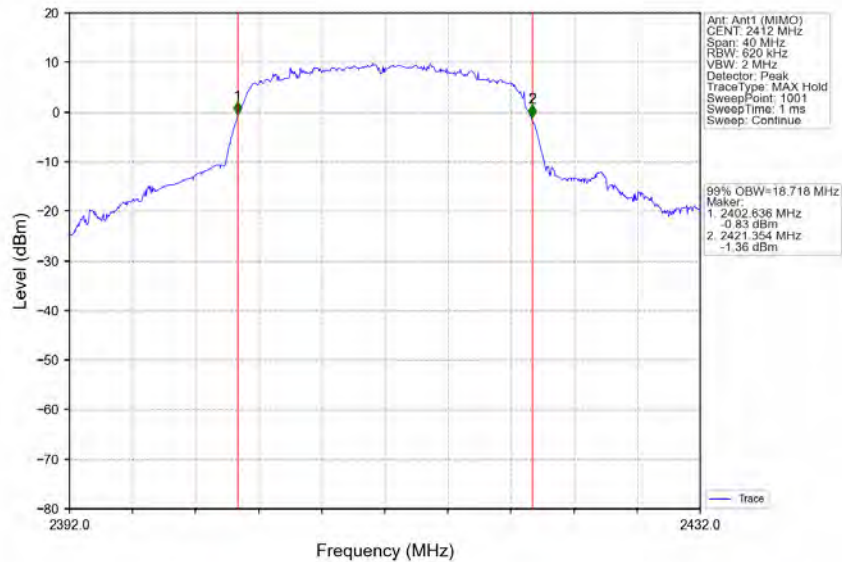
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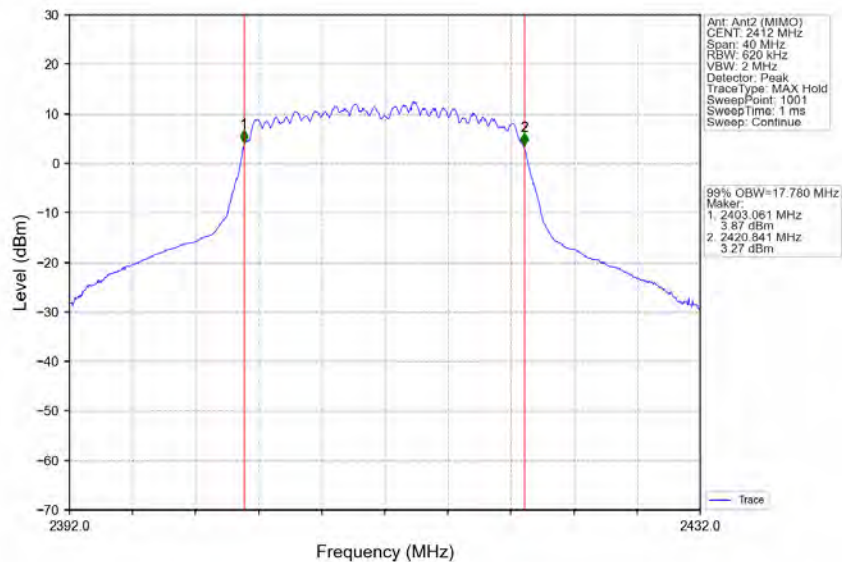
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



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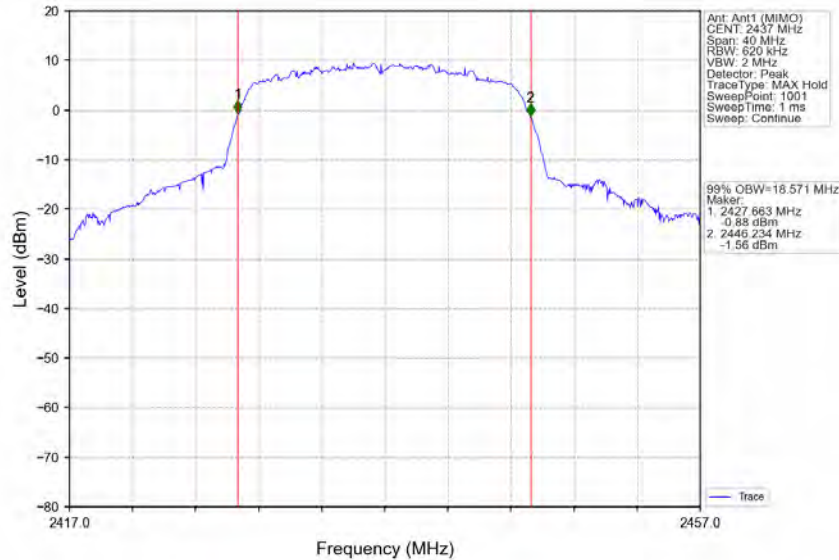
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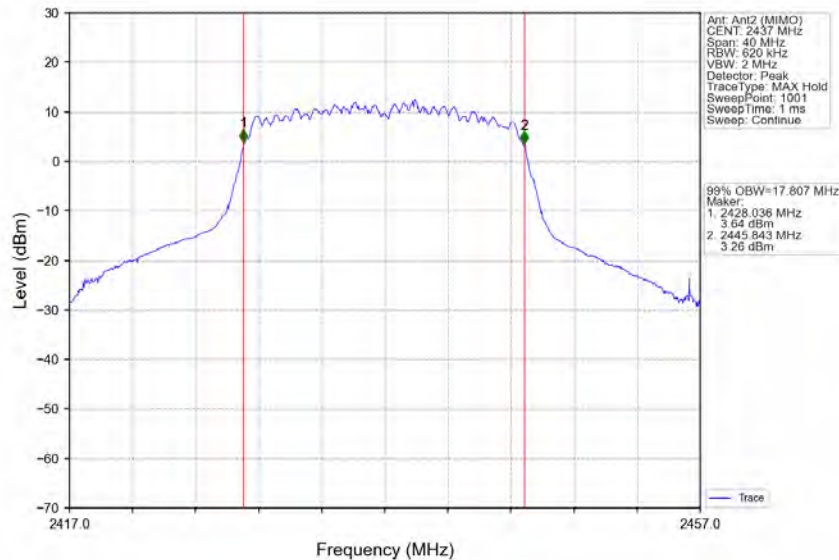
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



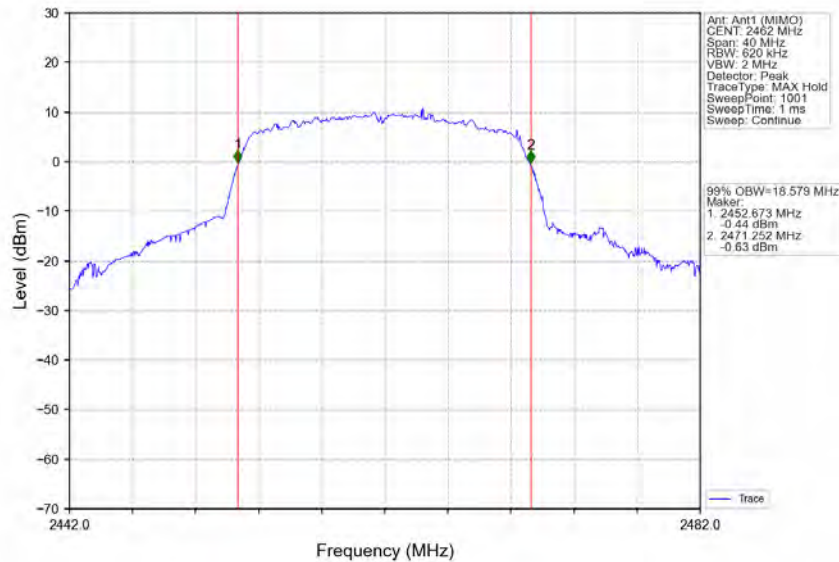
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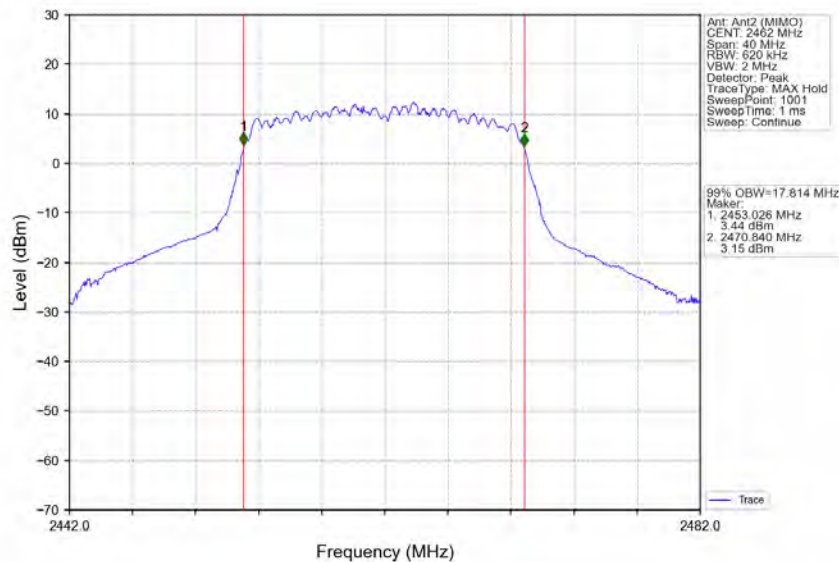
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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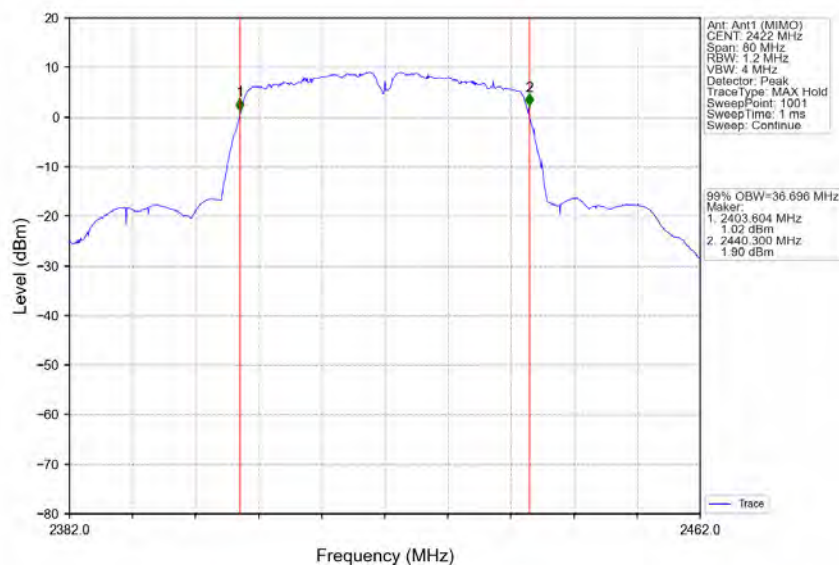
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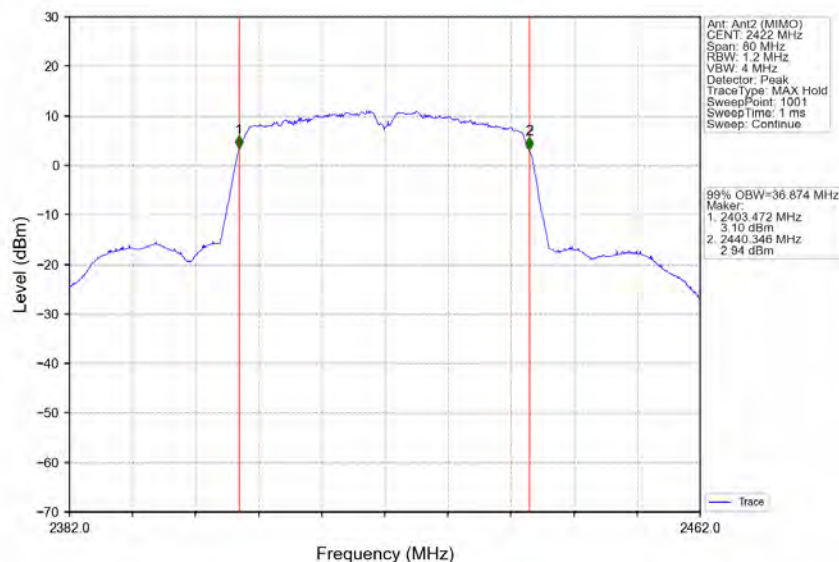
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



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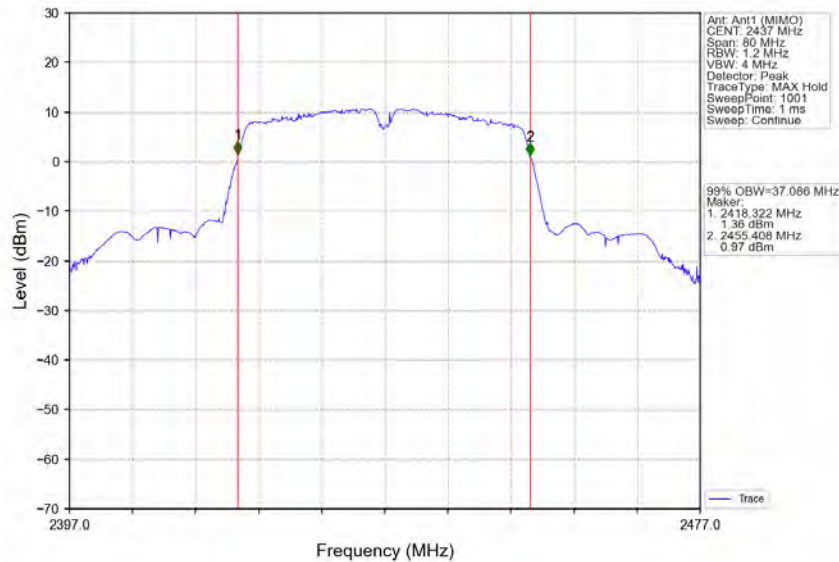
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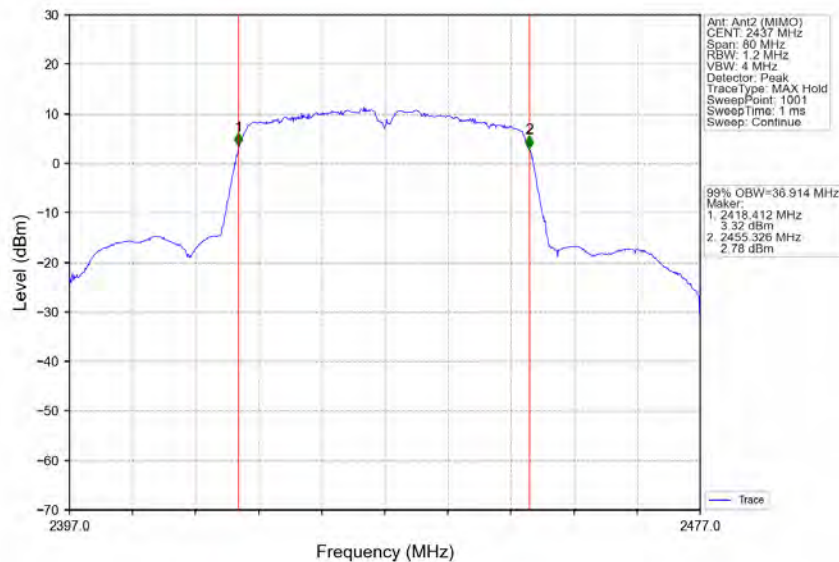
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802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTN



802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTN



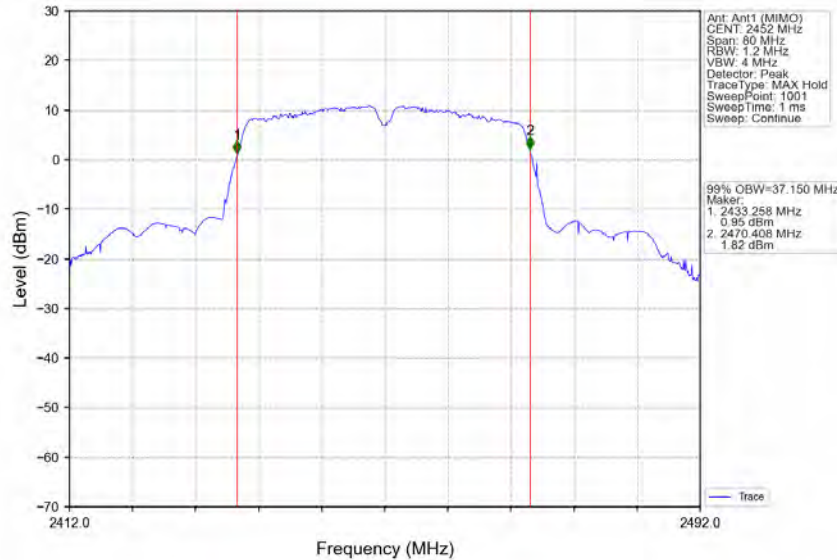
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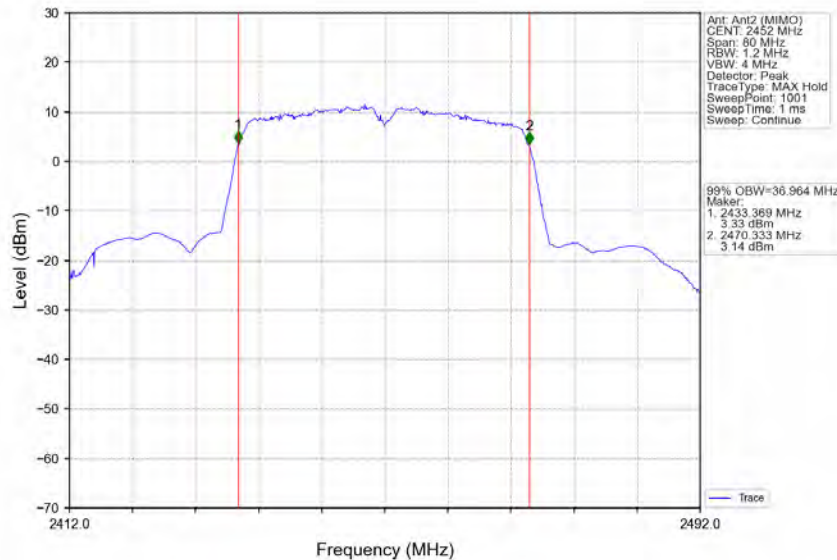
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Report No.: KSCR221000189001

Page: 102 of 177

### 2.2 6dB BW

#### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.104               | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 9.105               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 9.112               | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 9.102               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 9.547               | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 9.105               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 15.165              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 15.150              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 15.164              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 15.150              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 15.162              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 15.153              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 15.160              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 15.740              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 15.159              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 15.732              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 15.156              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 15.733              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 35.135              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 35.143              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 35.162              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 35.140              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 35.150              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 35.141              | $\geq 0.5$ | Pass    |



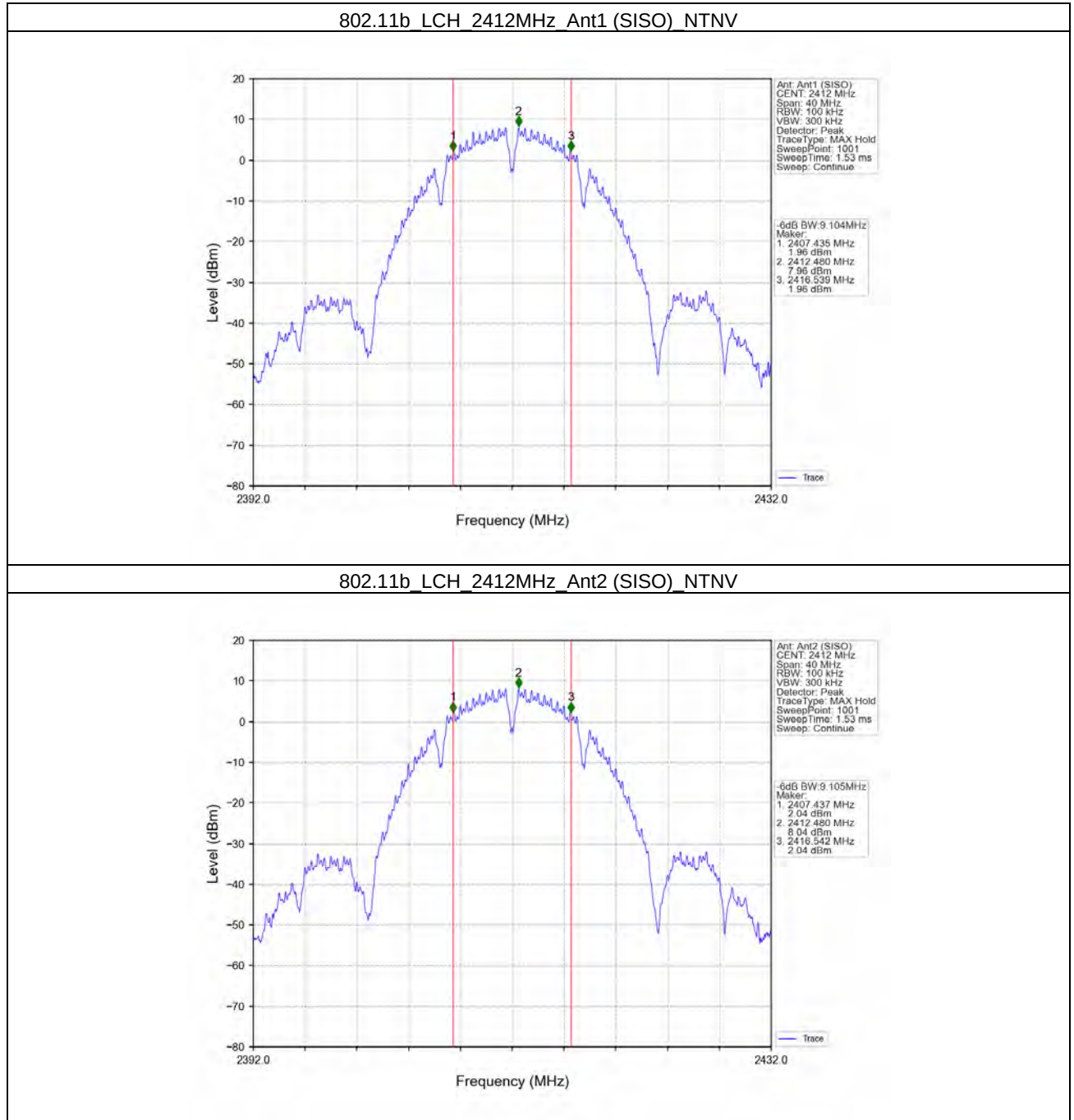
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### 2.2.2 Test Graph



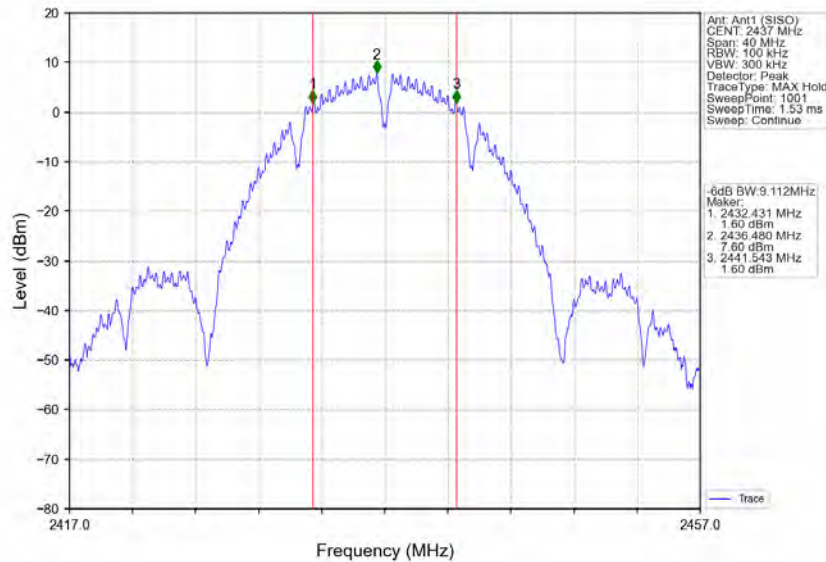
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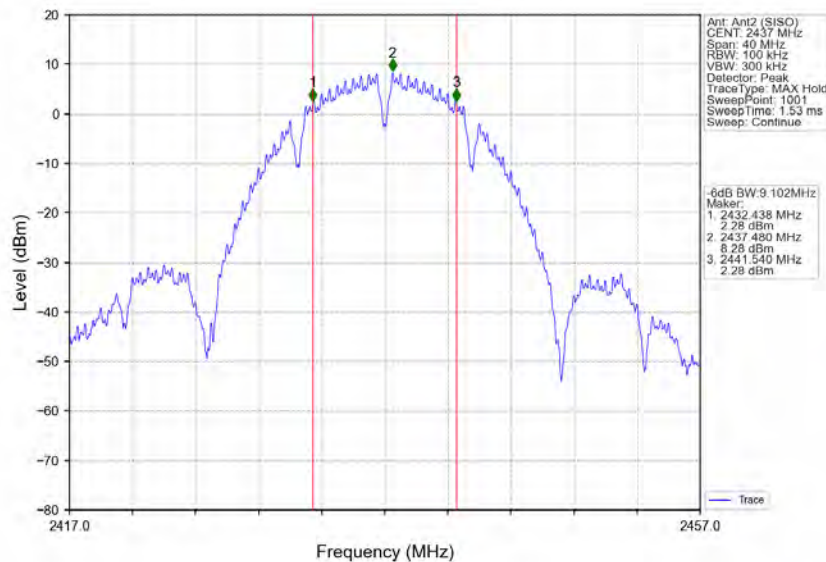
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802.11b MCH 2437MHz Ant1 (SISO) NTNv



802.11b MCH 2437MHz Ant2 (SISO) NTNv



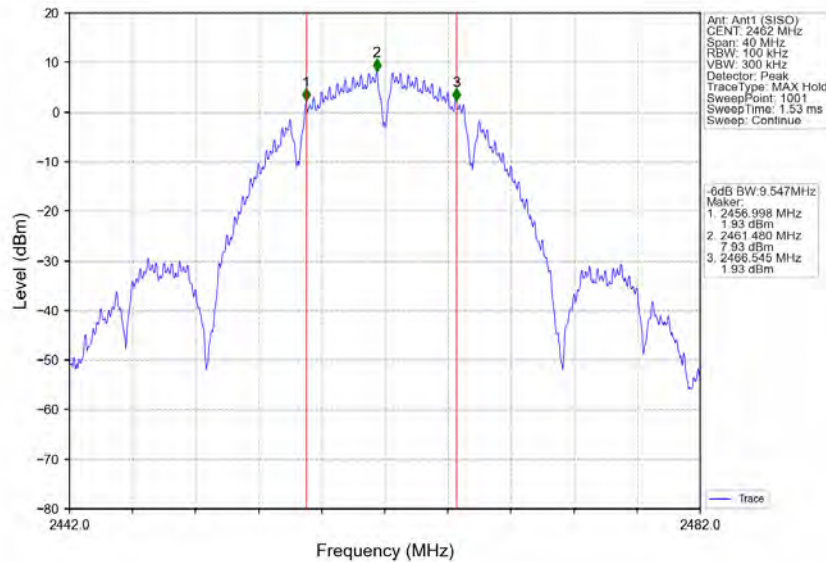
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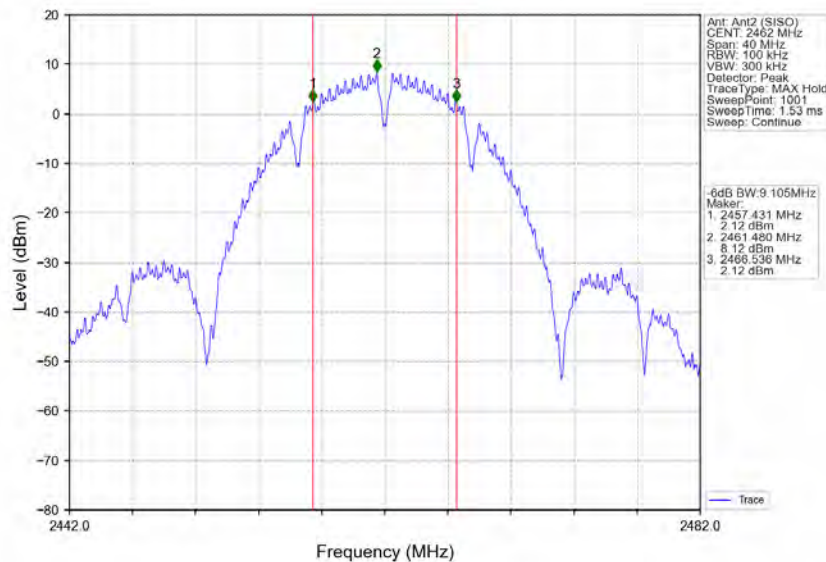
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11b HCH 2462MHz Ant2 (SISO) NTN



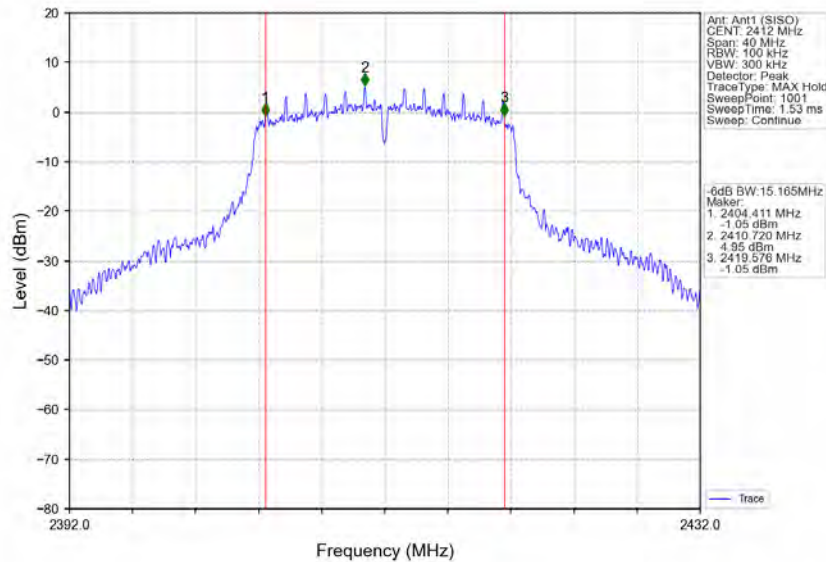
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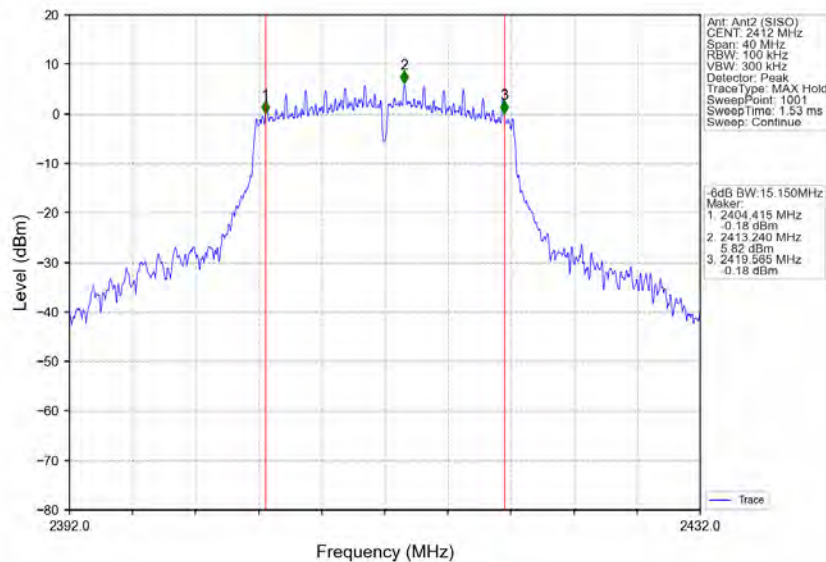
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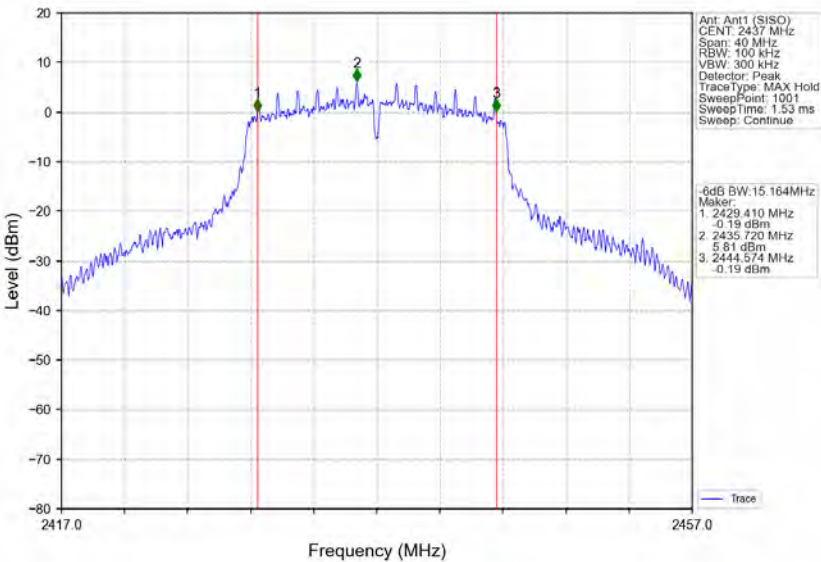
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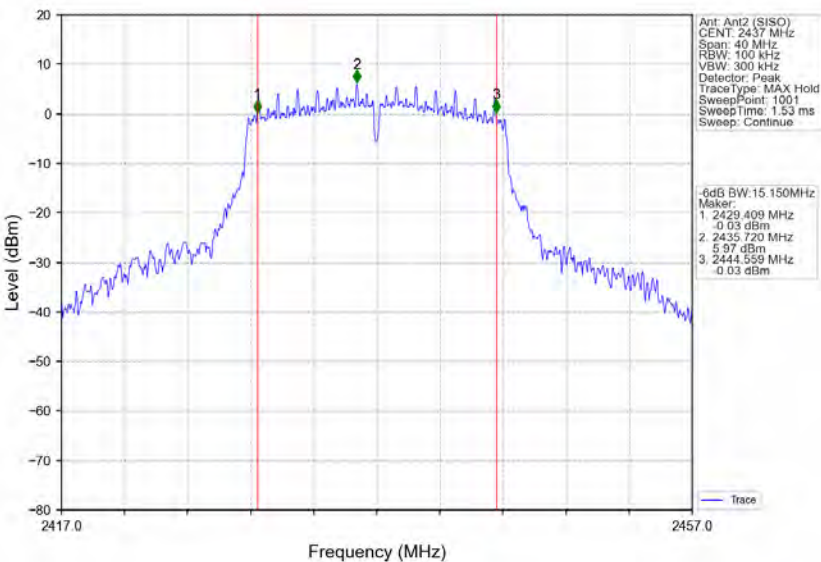
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802.11g MCH 2437MHz Ant1 (SISO) NTNv



802.11g MCH 2437MHz Ant2 (SISO) NTNv



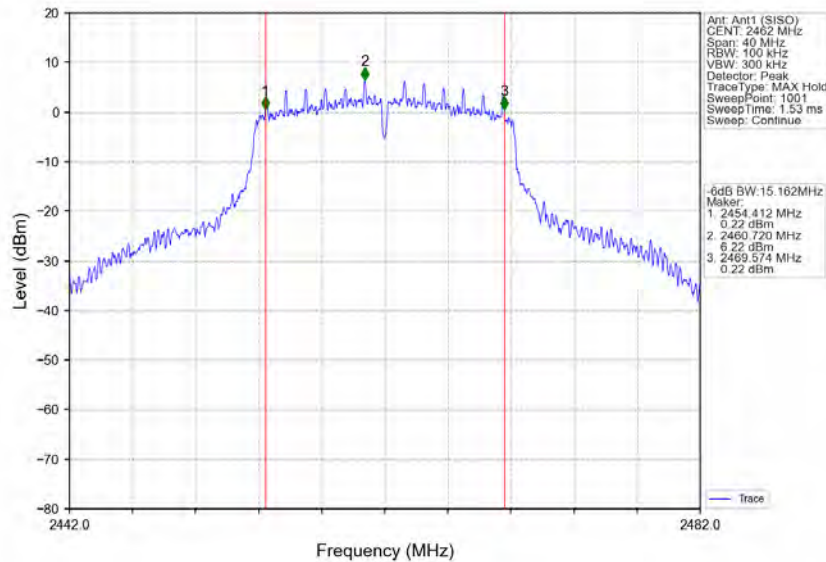
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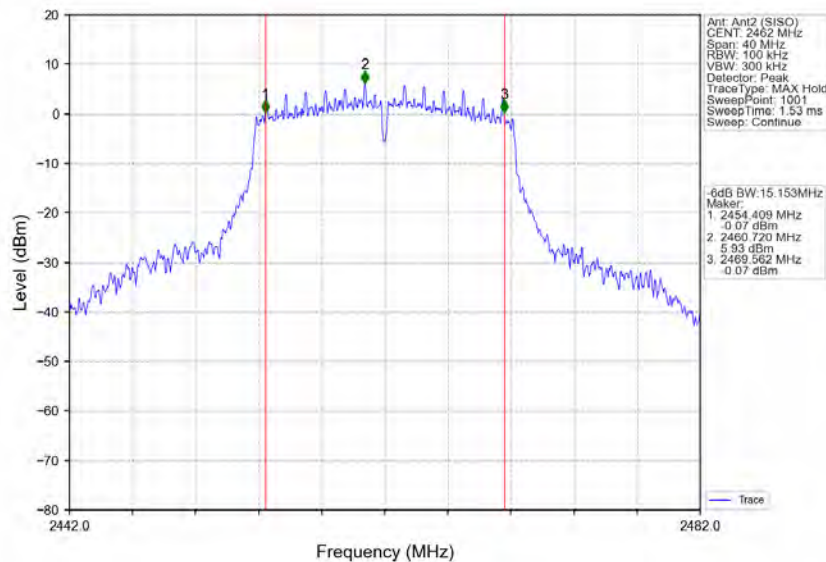
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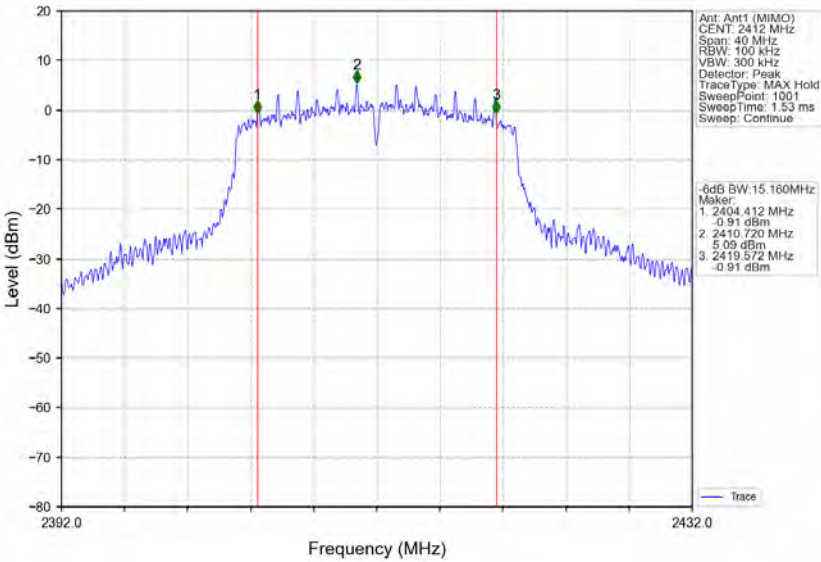
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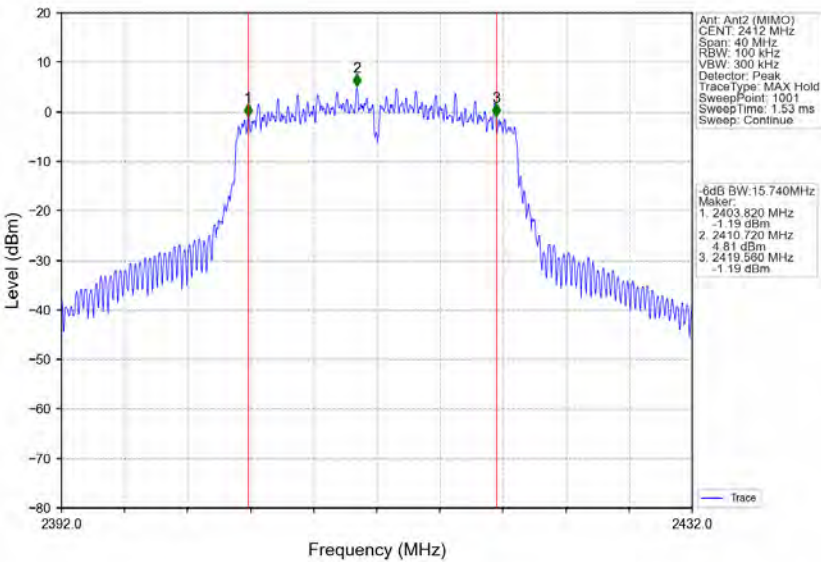
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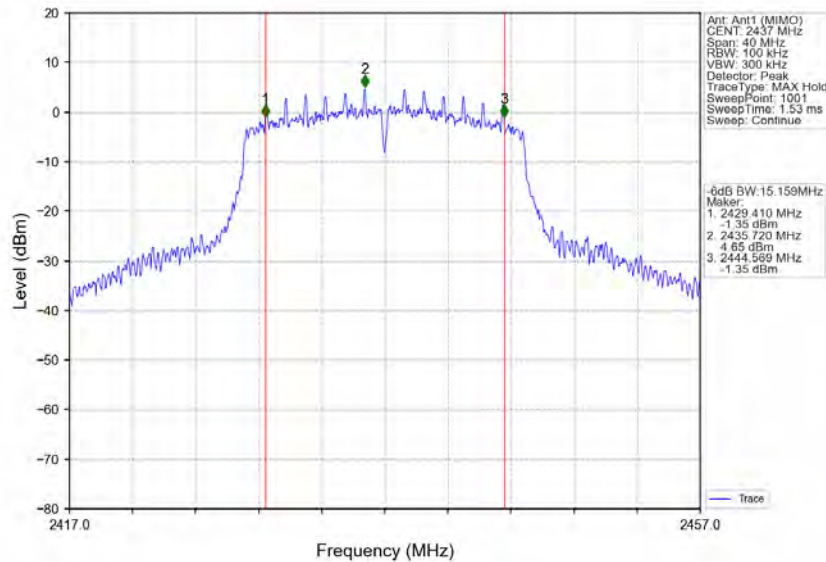
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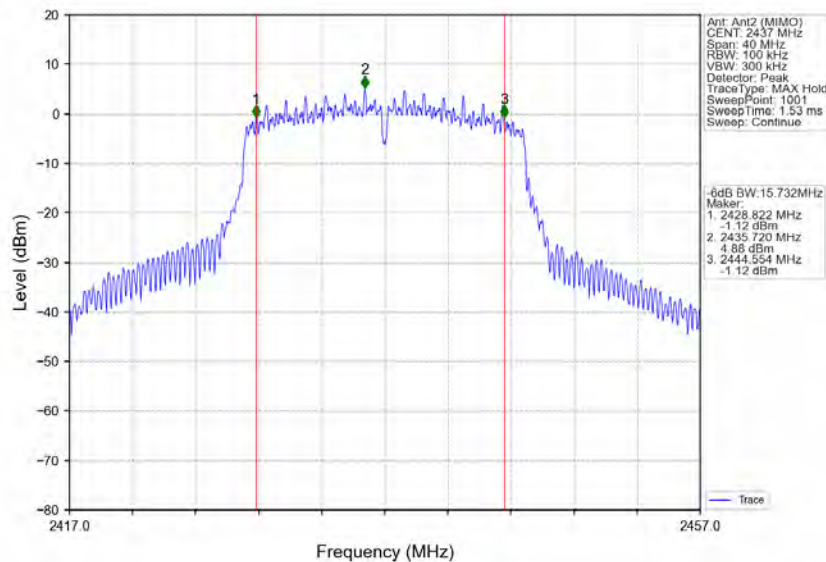
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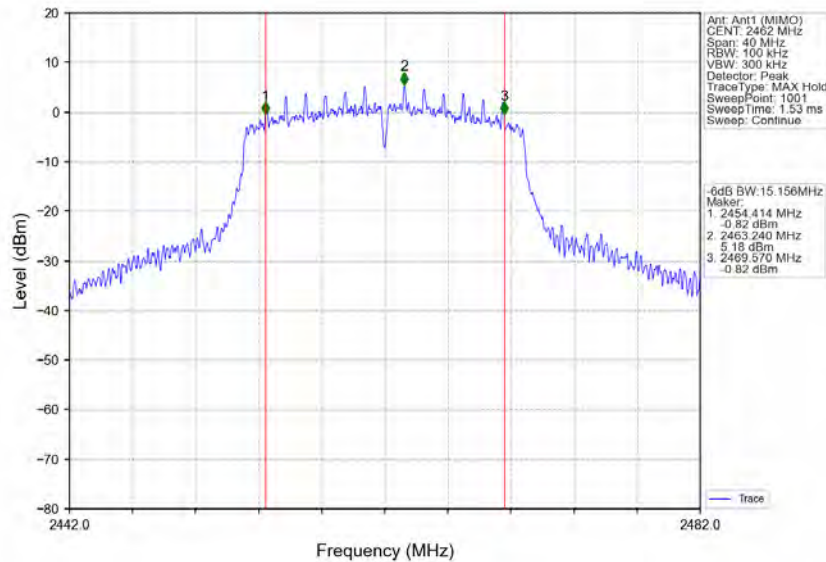
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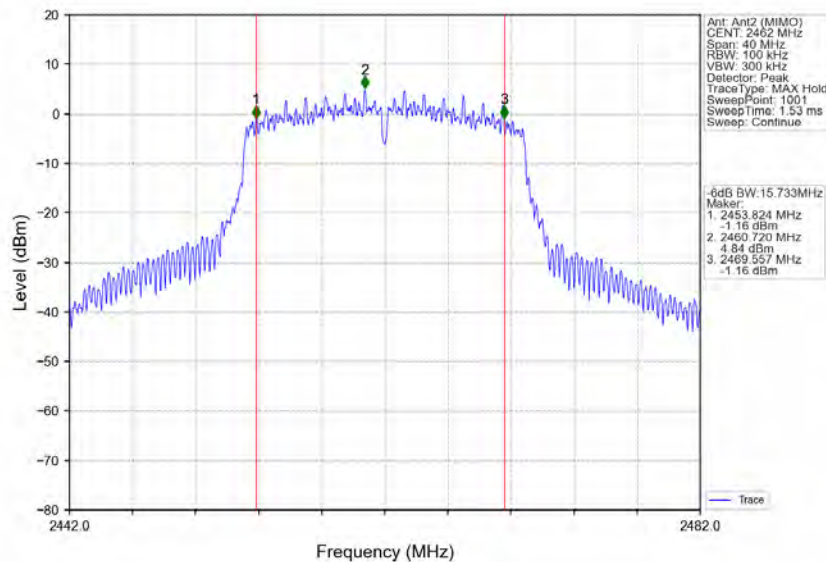
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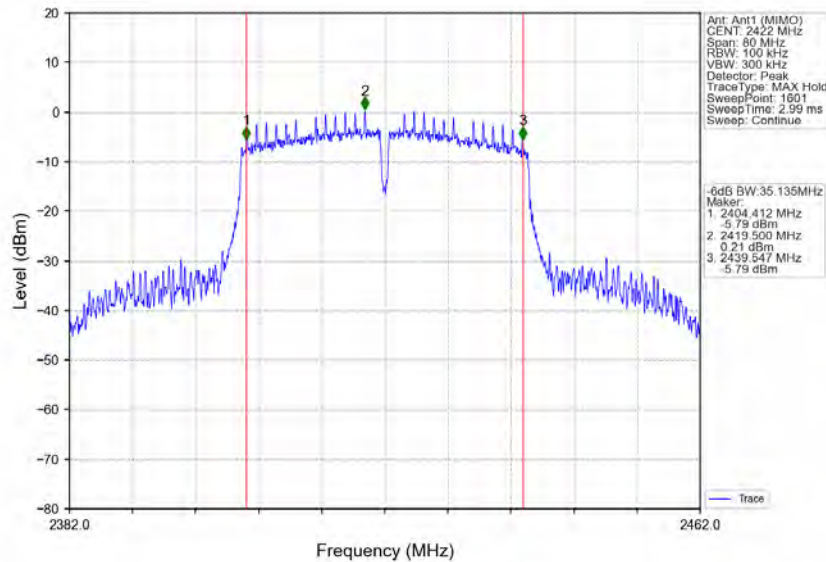
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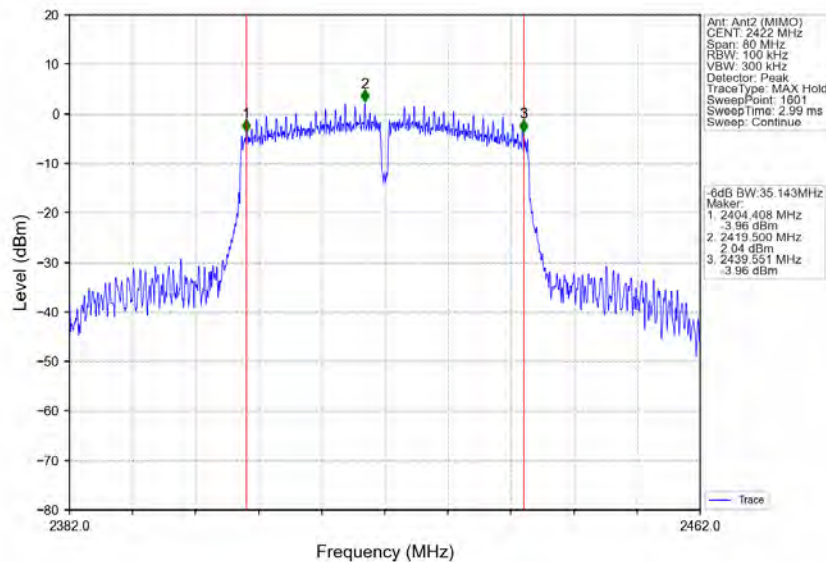
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



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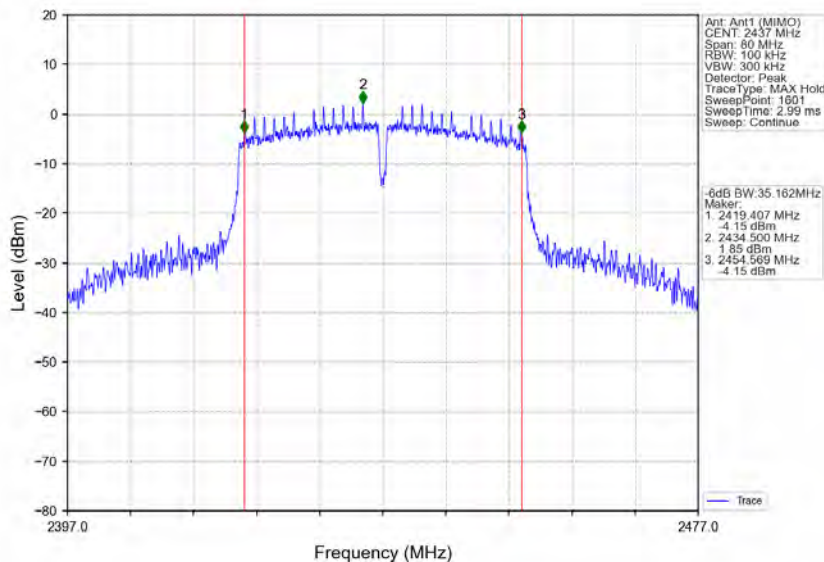
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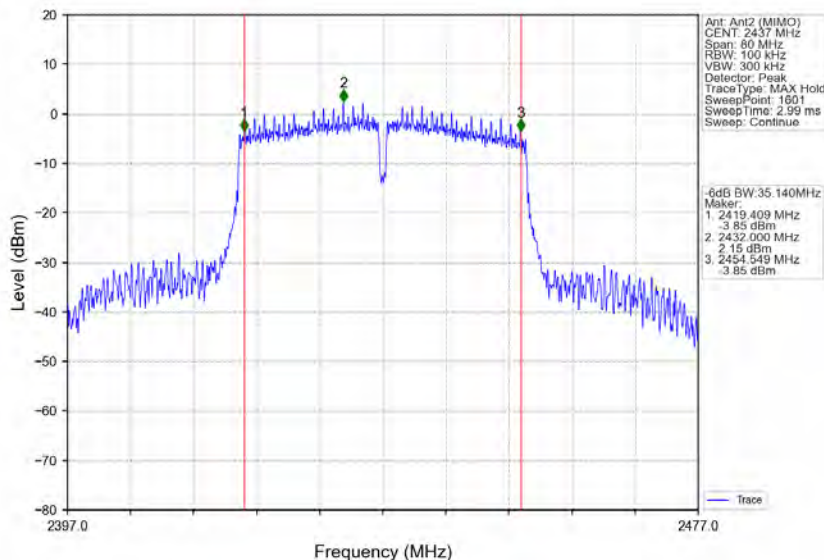
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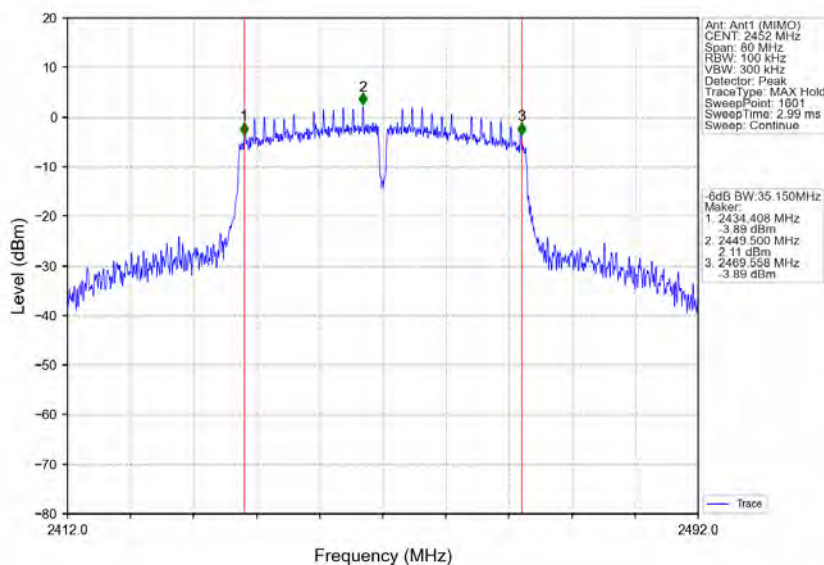
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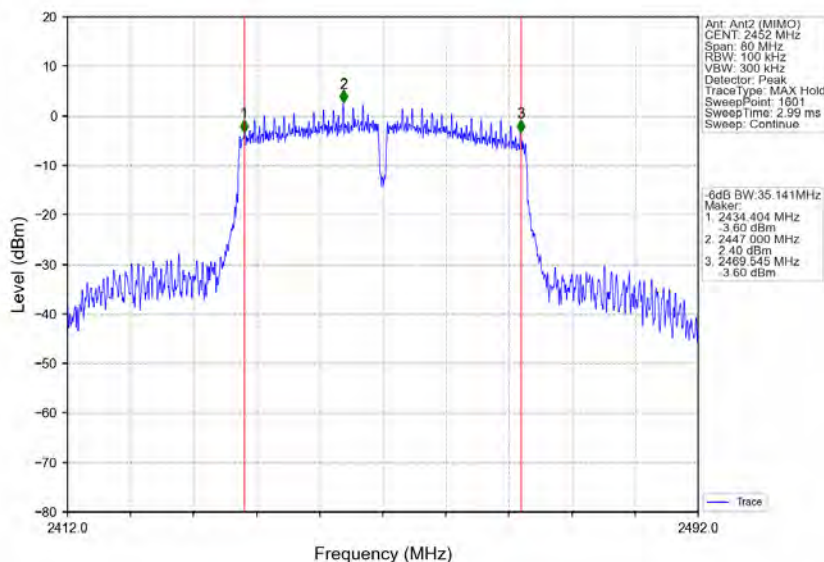
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



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Report No.: KSCR221000189001

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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit |         |
| 802.11b        | SISO    | 2412            | 17.38                                        | 17.48 | /     | <=30  | Pass    |
|                |         | 2437            | 17.11                                        | 17.57 | /     | <=30  | Pass    |
|                |         | 2462            | 17.45                                        | 17.63 | /     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 15.32                                        | 16.27 | /     | <=30  | Pass    |
|                |         | 2437            | 16.08                                        | 16.22 | /     | <=30  | Pass    |
|                |         | 2462            | 16.41                                        | 16.26 | /     | <=30  | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 15.18                                        | 15.20 | 18.20 | <=30  | Pass    |
|                |         | 2437            | 14.74                                        | 15.22 | 18.00 | <=30  | Pass    |
|                |         | 2462            | 15.24                                        | 15.18 | 18.22 | <=30  | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 13.36                                        | 15.08 | 17.31 | <=30  | Pass    |
|                |         | 2437            | 15.21                                        | 15.13 | 18.18 | <=30  | Pass    |
|                |         | 2452            | 15.35                                        | 15.30 | 18.34 | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.68dBi; Ant2: 3.42dBi;  
Note2: Directional Gain: 5.65dBi

##### 3.1.2 Test Graph

|                                      |
|--------------------------------------|
| 802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV |
|--------------------------------------|

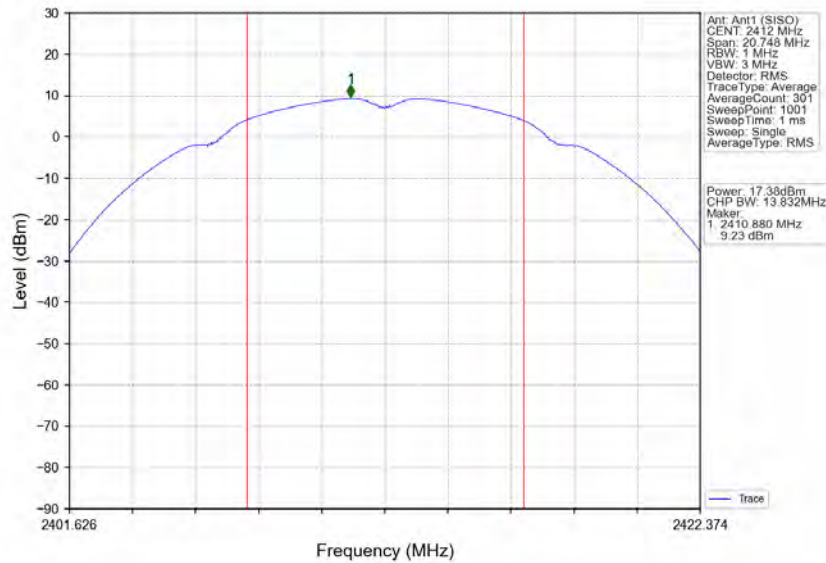


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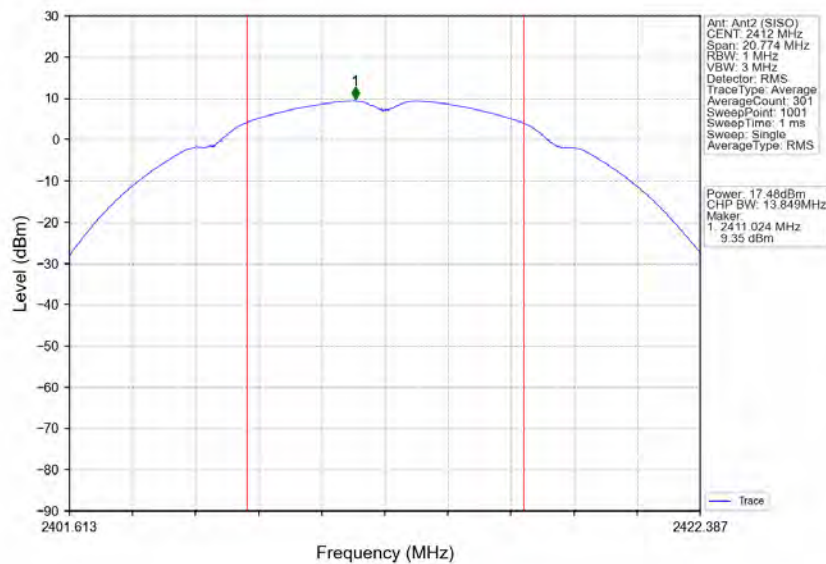
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802.11b LCH 2412MHz Ant2 (SISO) NTNv



802.11b MCH 2437MHz Ant1 (SISO) NTNv

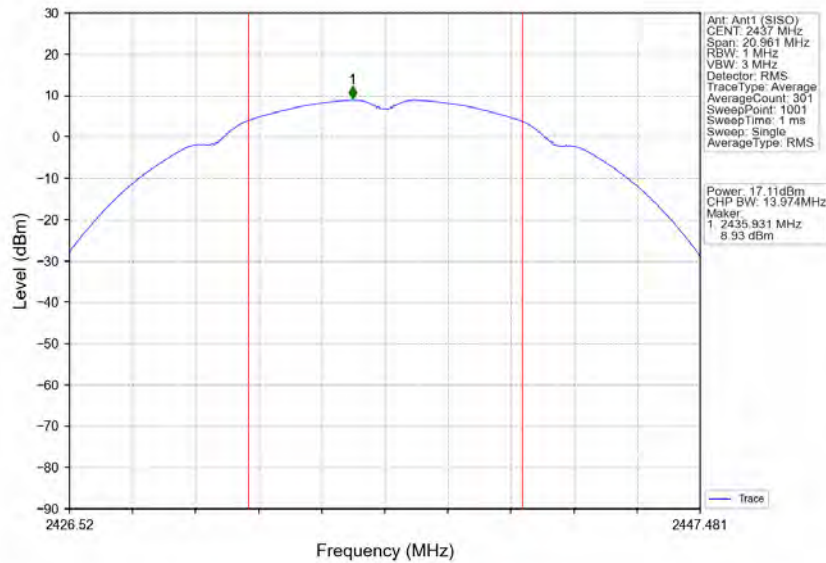


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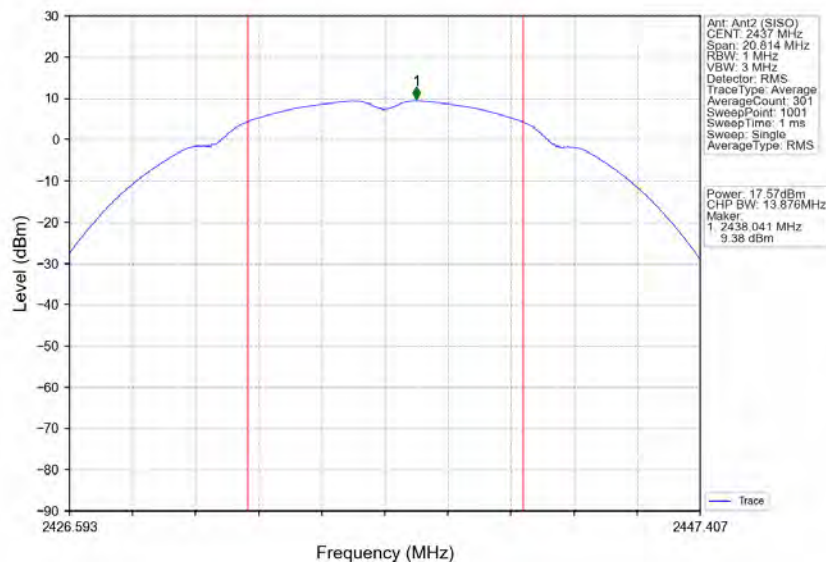
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802.11b MCH 2437MHz Ant2 (SISO) NTNv



802.11b HCH 2462MHz Ant1 (SISO) NTNv

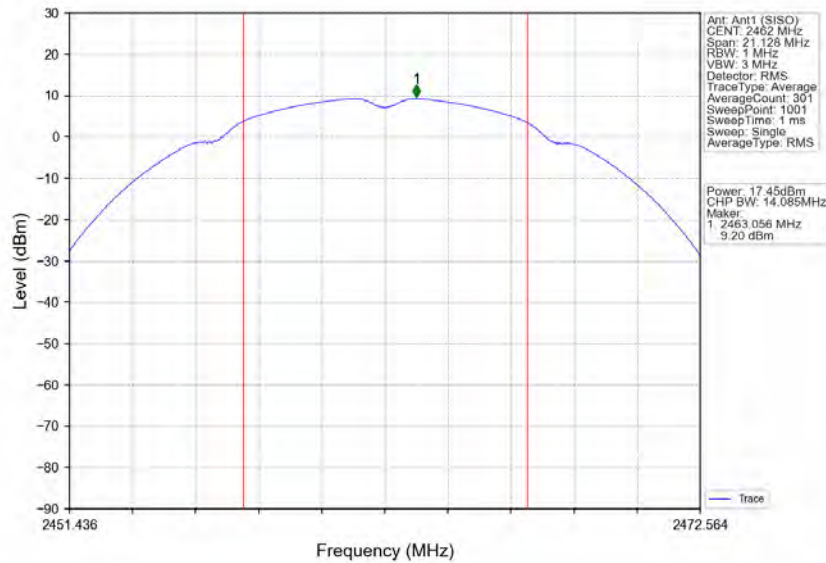


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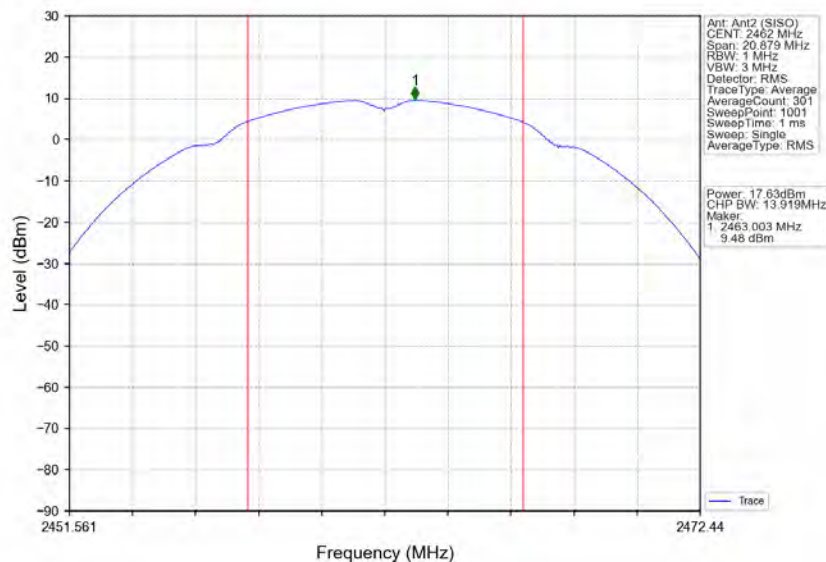
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802.11b HCH 2462MHz Ant2 (SISO) NTNv



802.11g LCH 2412MHz Ant1 (SISO) NTNv

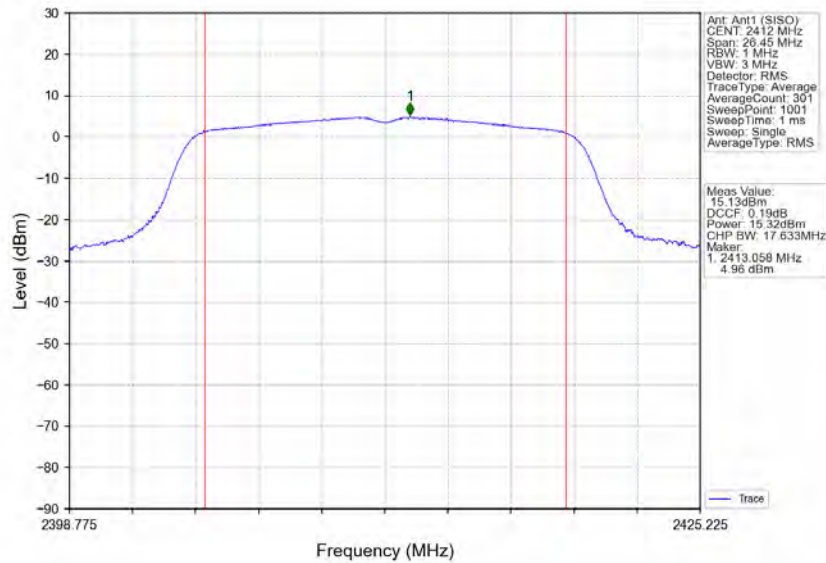


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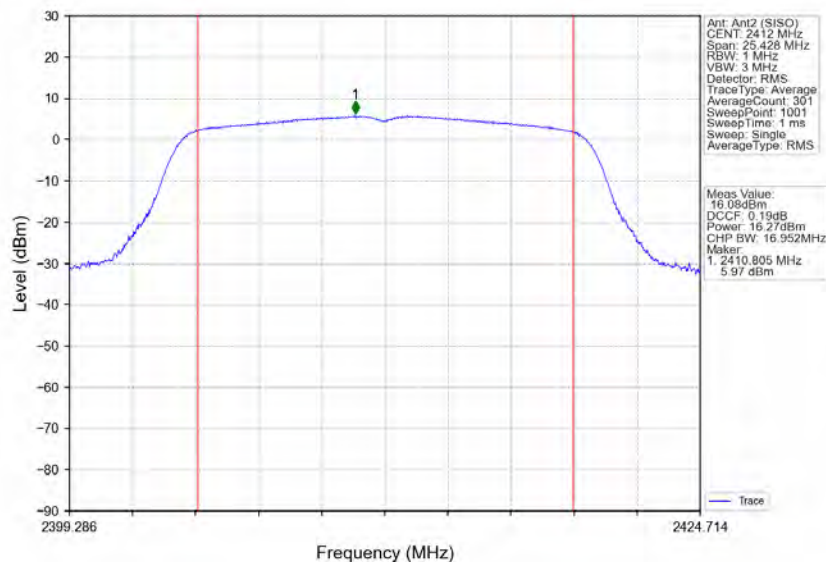
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802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



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

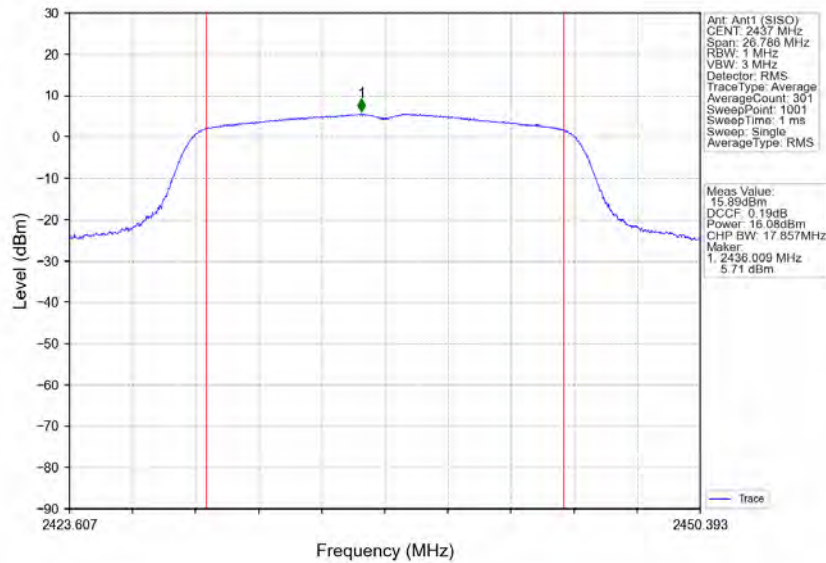


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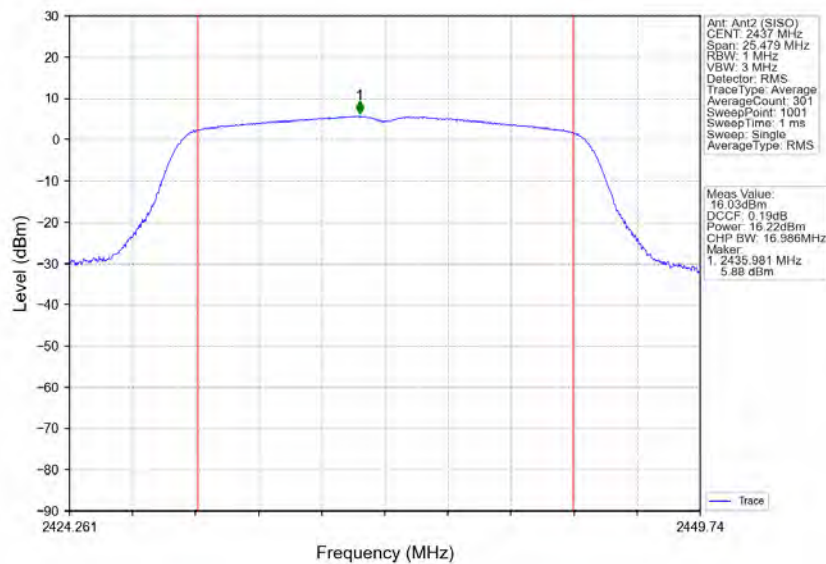
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802.11g MCH 2437MHz Ant2 (SISO) NTNv



802.11g HCH 2462MHz Ant1 (SISO) NTNv

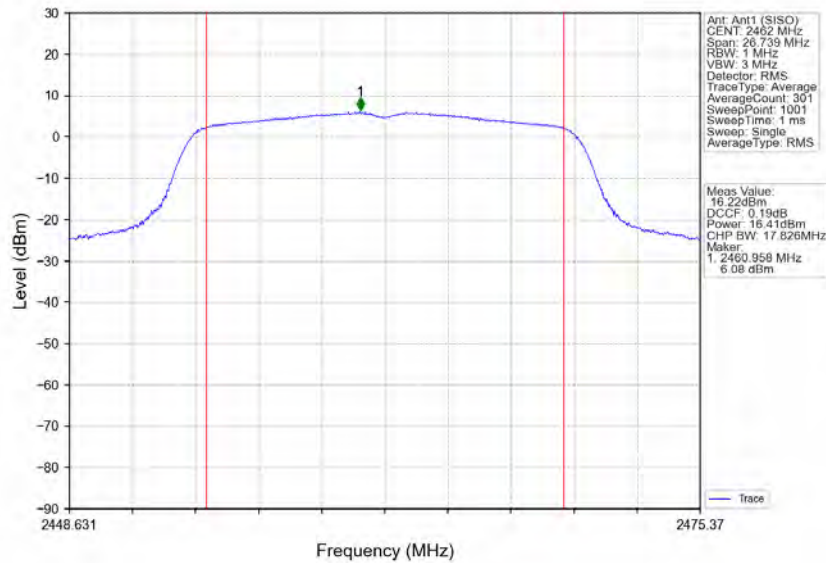


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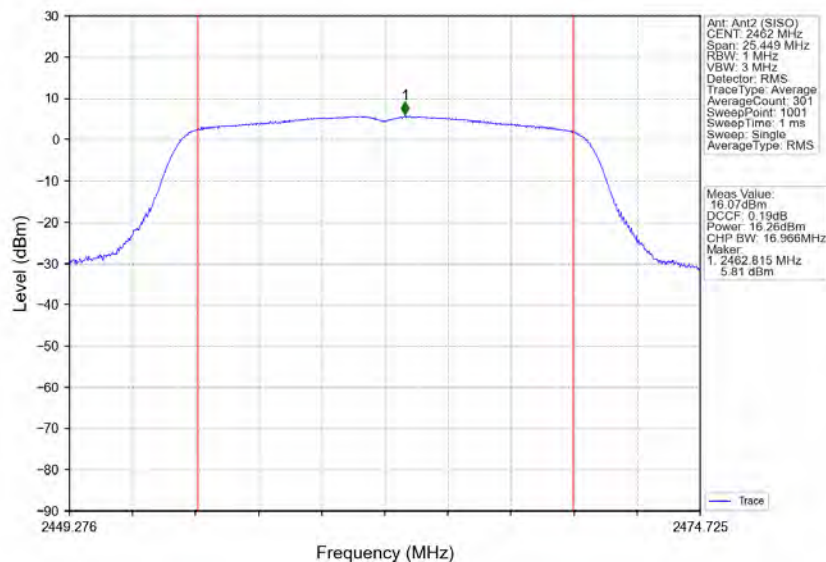
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802.11g HCH 2462MHz Ant2 (SISO) NTNv



802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNv



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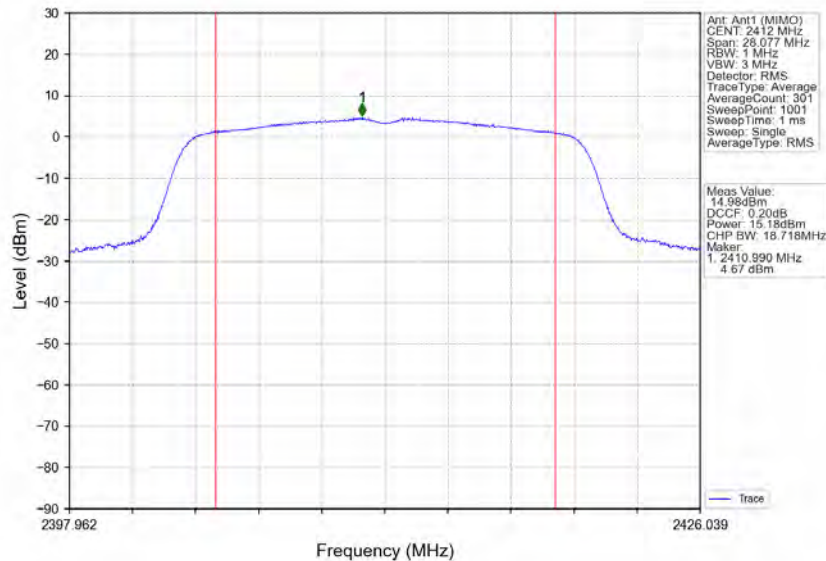
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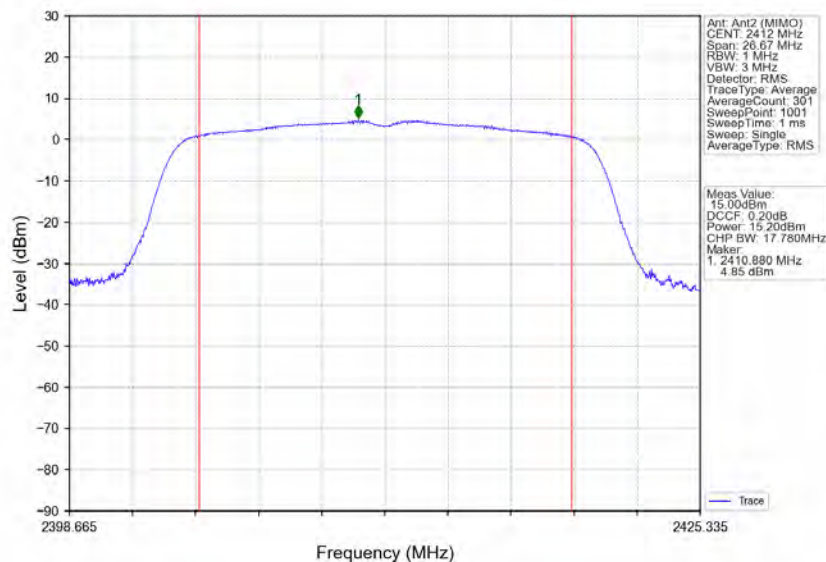
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802.11n(HT20) LCH\_2412MHz\_Ant2 (MIMO) NTNv



802.11n(HT20) MCH\_2437MHz\_Ant1 (MIMO) NTNv



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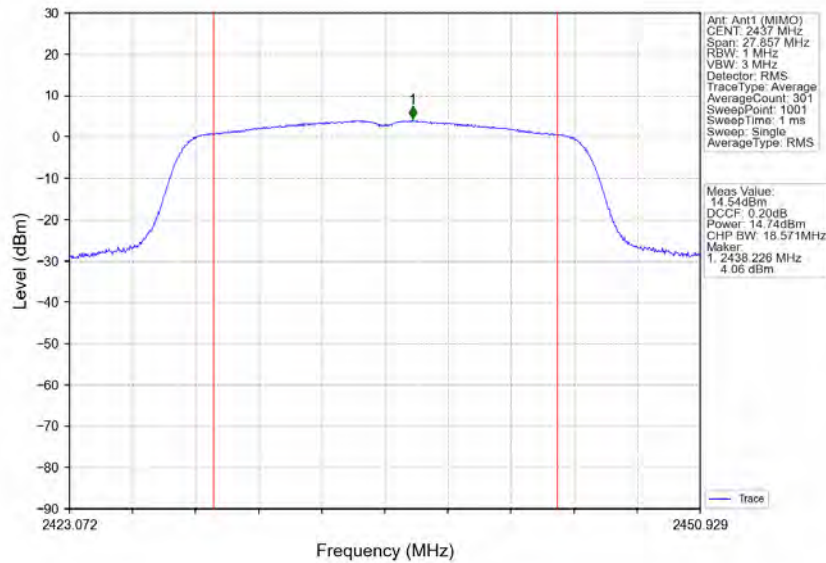
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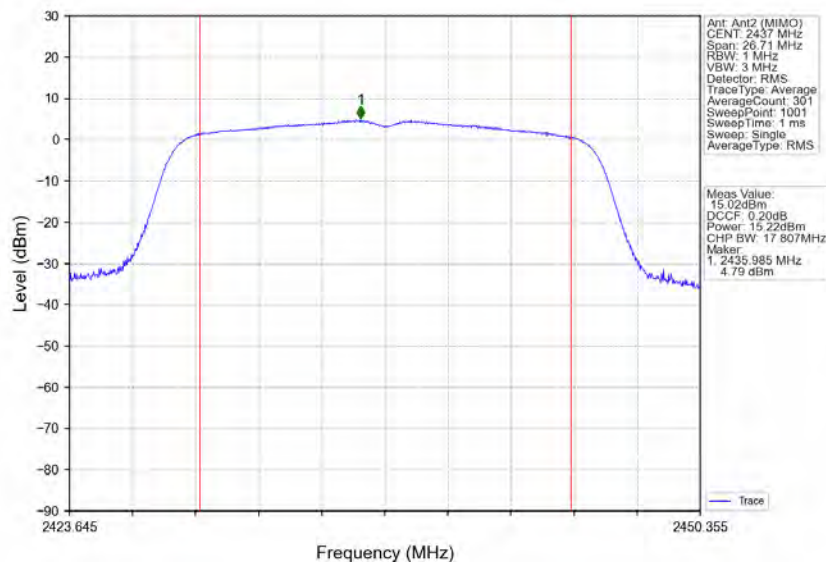
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802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNv



802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNv

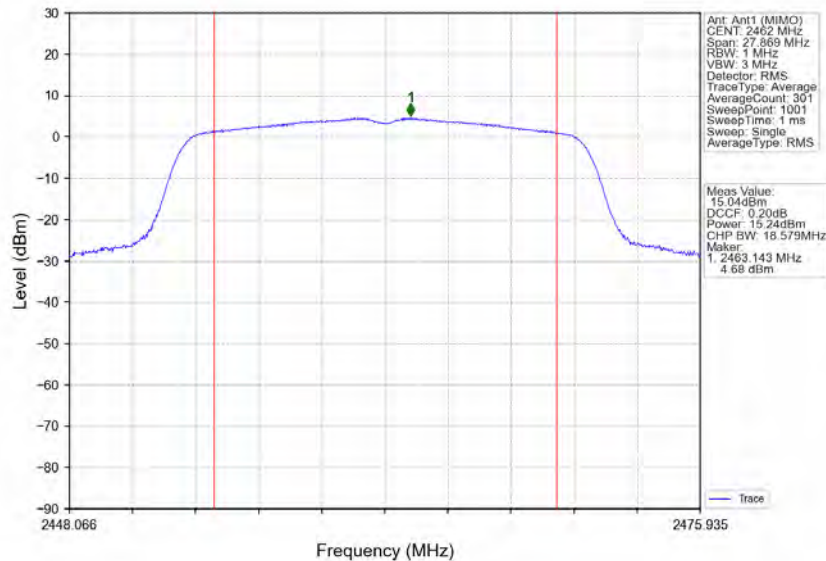


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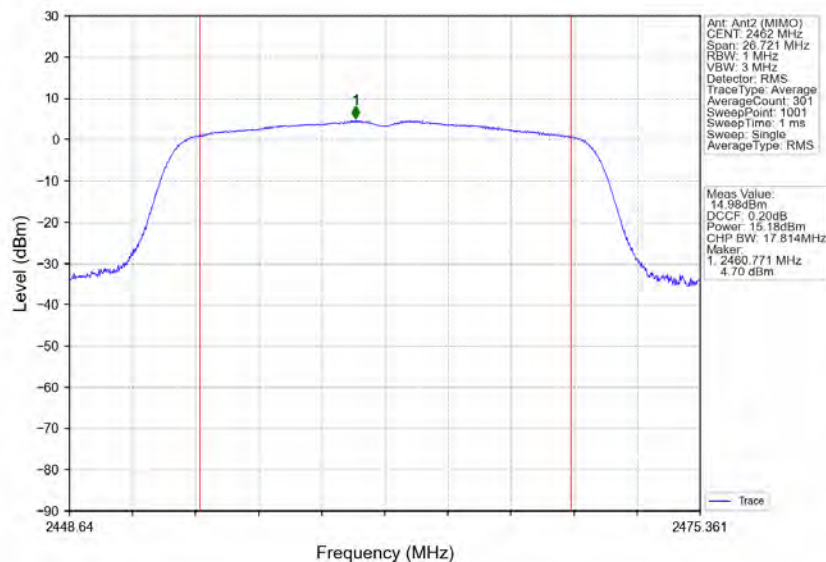
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTNv



802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNv

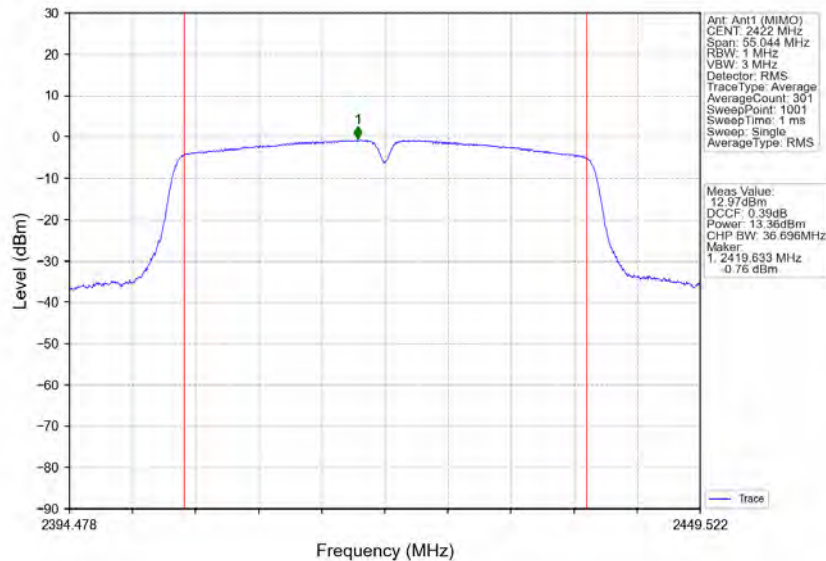


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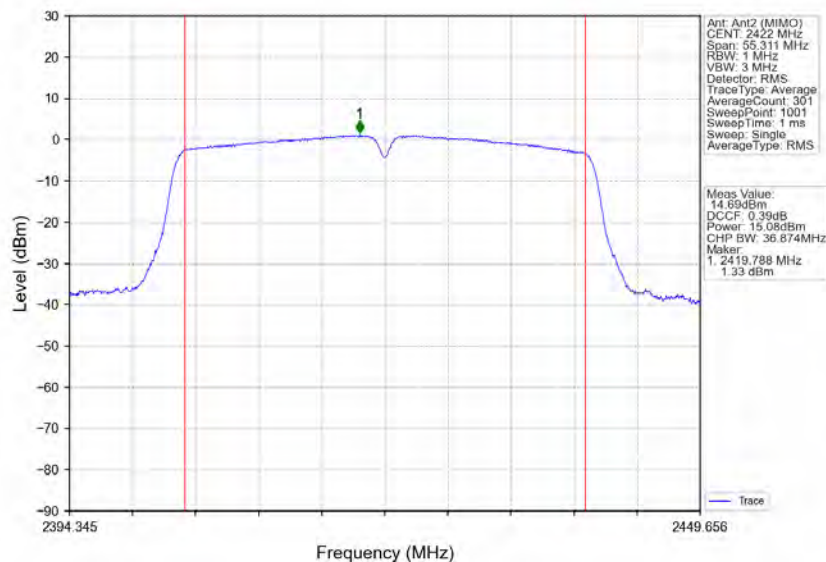
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802.11n(HT40) LCH 2422MHz\_Ant2 (MIMO) NTNv



802.11n(HT40) MCH 2437MHz\_Ant1 (MIMO) NTNv

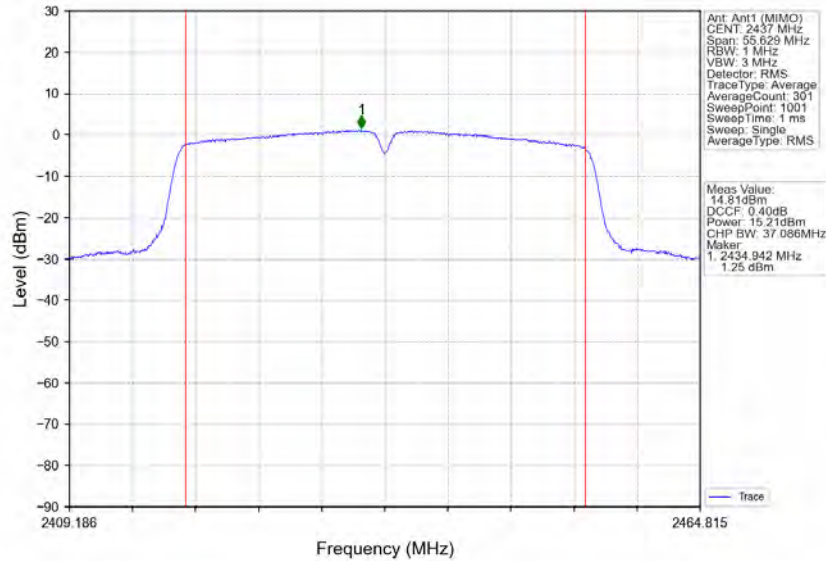


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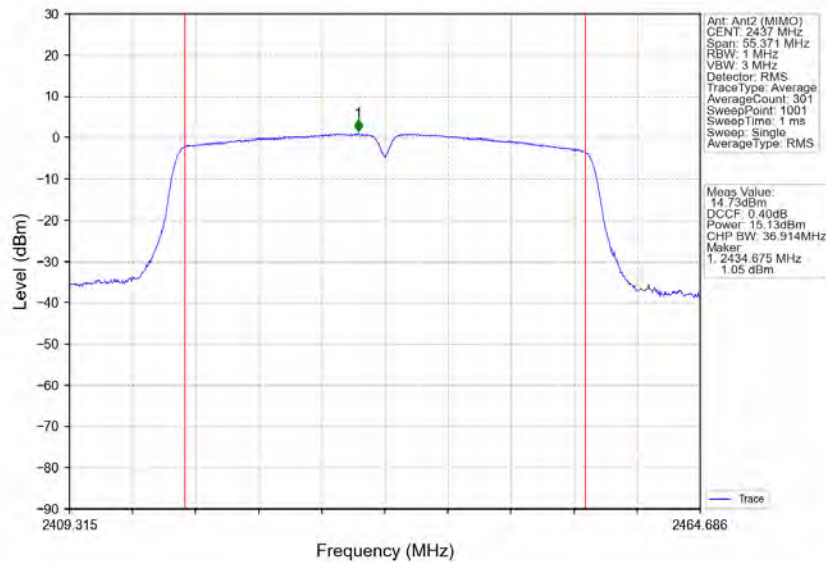
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802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTNv



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNv



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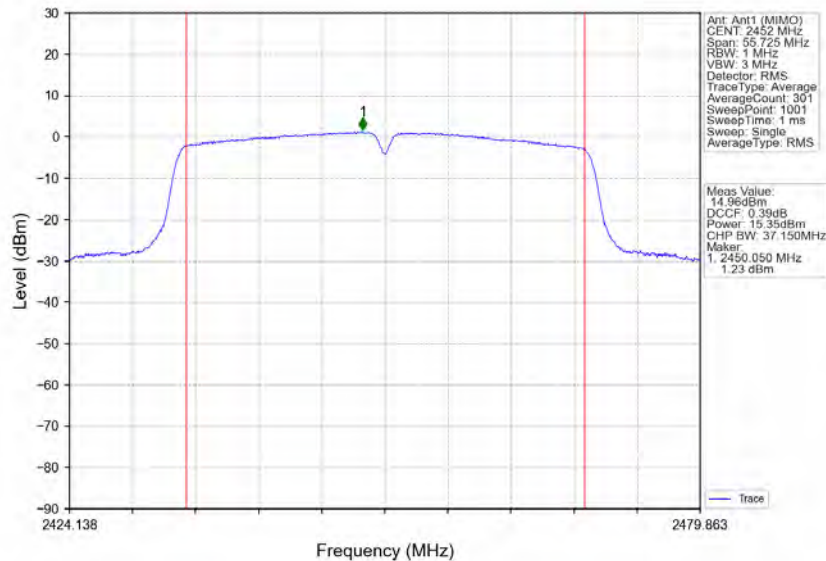
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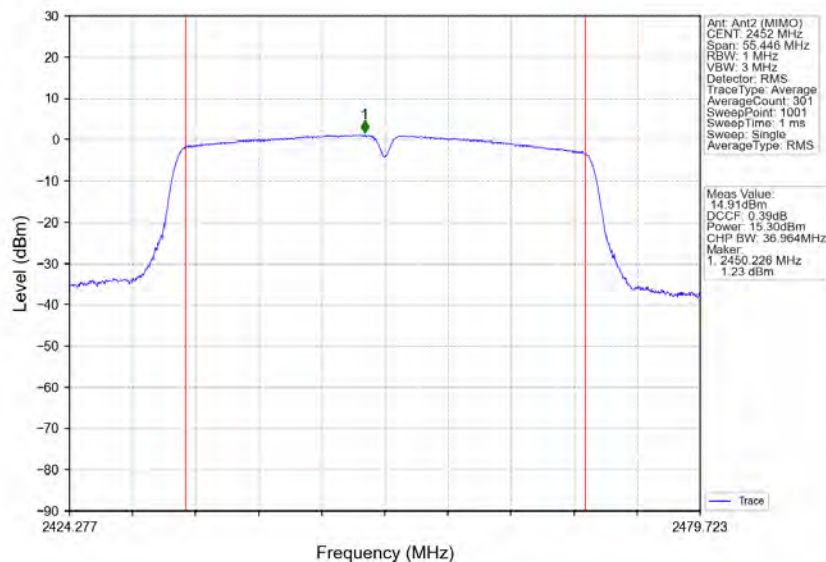
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802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNv



## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result



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| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |        |        |       | Verdict |
|----------------|---------|-----------------|------------------------|--------|--------|-------|---------|
|                |         |                 | ANT1                   | ANT2   | MIMO   | Limit |         |
| 802.11b        | SISO    | 2412            | 2.98                   | -7.79  | /      | <=8   | Pass    |
|                |         | 2437            | 6.72                   | 7.23   | /      | <=8   | Pass    |
|                |         | 2462            | 4.83                   | 6.21   | /      | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -11.41                 | -10.11 | /      | <=8   | Pass    |
|                |         | 2437            | -10.93                 | -10.60 | /      | <=8   | Pass    |
|                |         | 2462            | -9.74                  | -10.68 | /      | <=8   | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | -9.63                  | -11.10 | -8.50  | <=8   | Pass    |
|                |         | 2437            | -11.43                 | -11.47 | -9.57  | <=8   | Pass    |
|                |         | 2462            | -11.74                 | -10.66 | -9.54  | <=8   | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | -15.96                 | -14.30 | -12.65 | <=8   | Pass    |
|                |         | 2437            | -14.51                 | -13.57 | -11.25 | <=8   | Pass    |
|                |         | 2452            | -13.79                 | -13.67 | -11.71 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 1.68dBi; Ant2: 3.42dBi;

Note2: Directional Gain: 5.65dBi



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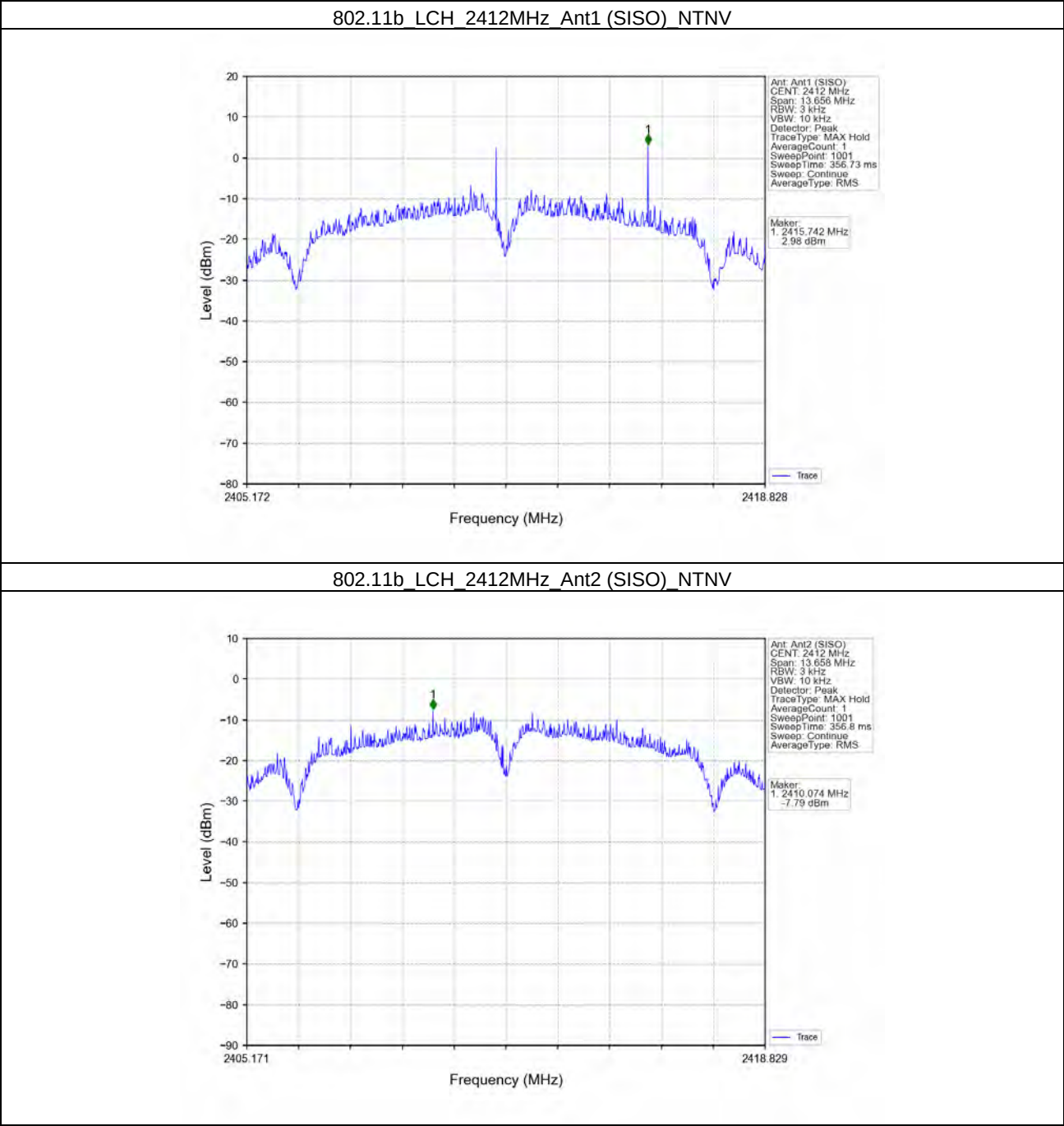
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### 4.1.2 Test Graph

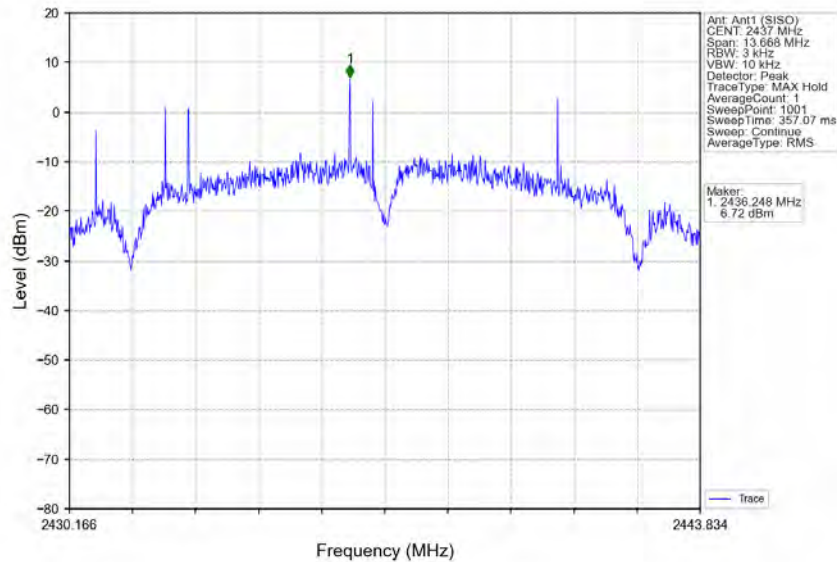


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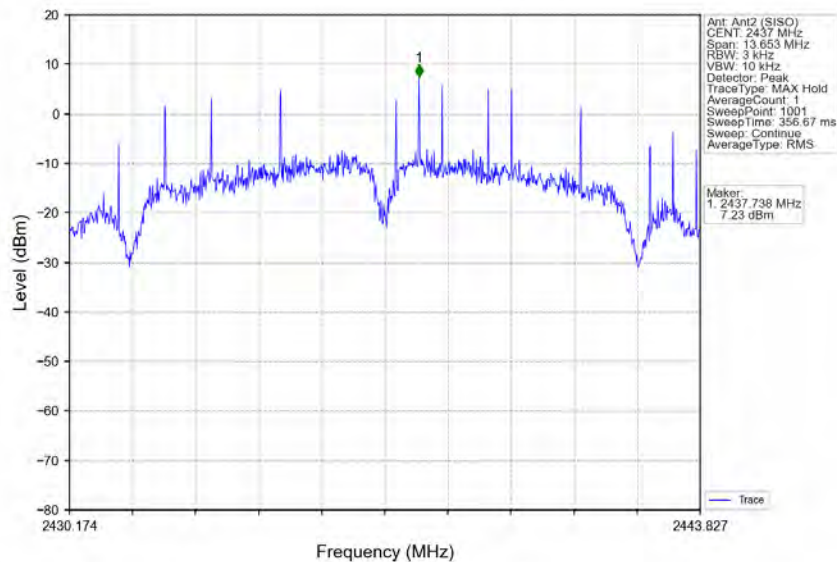
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802.11b MCH 2437MHz Ant1 (SISO) NTNv



802.11b MCH 2437MHz Ant2 (SISO) NTNv



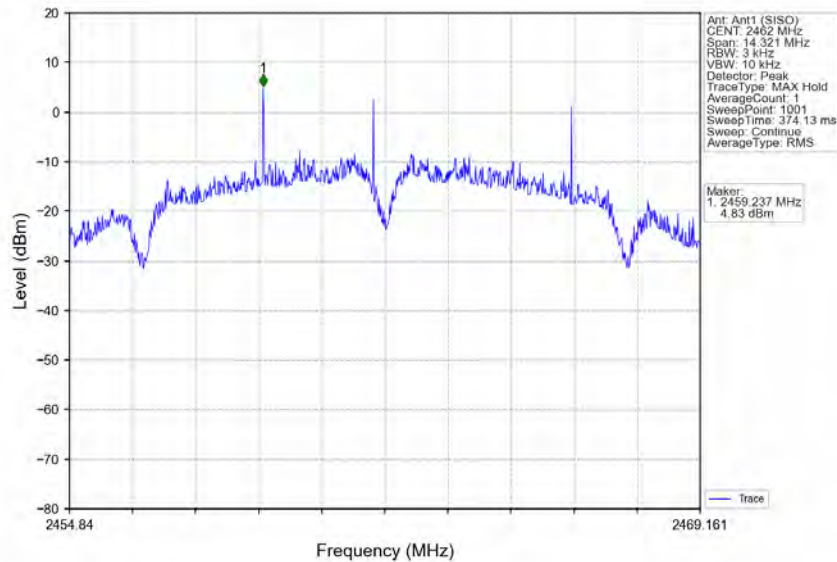
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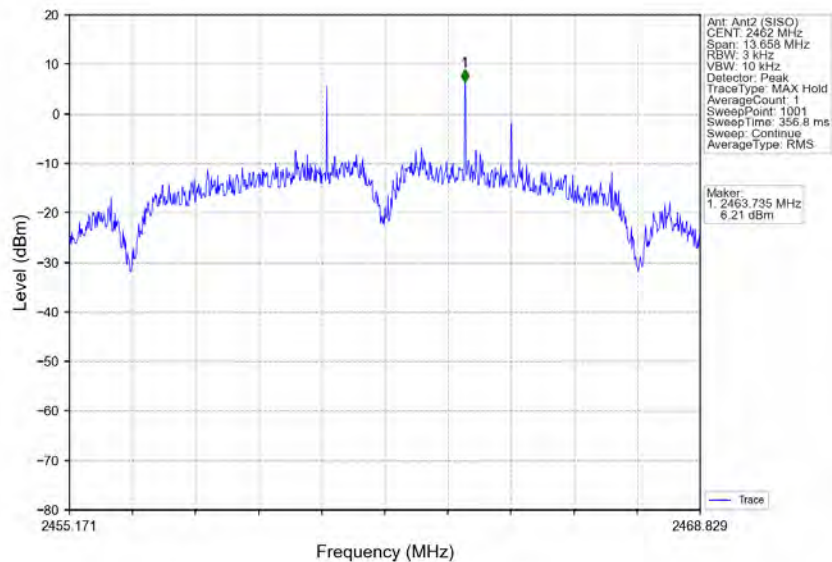
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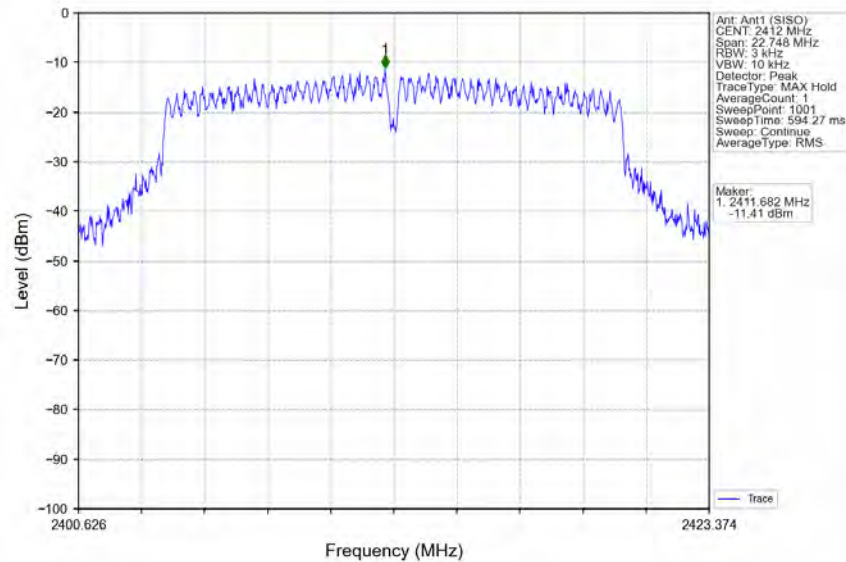
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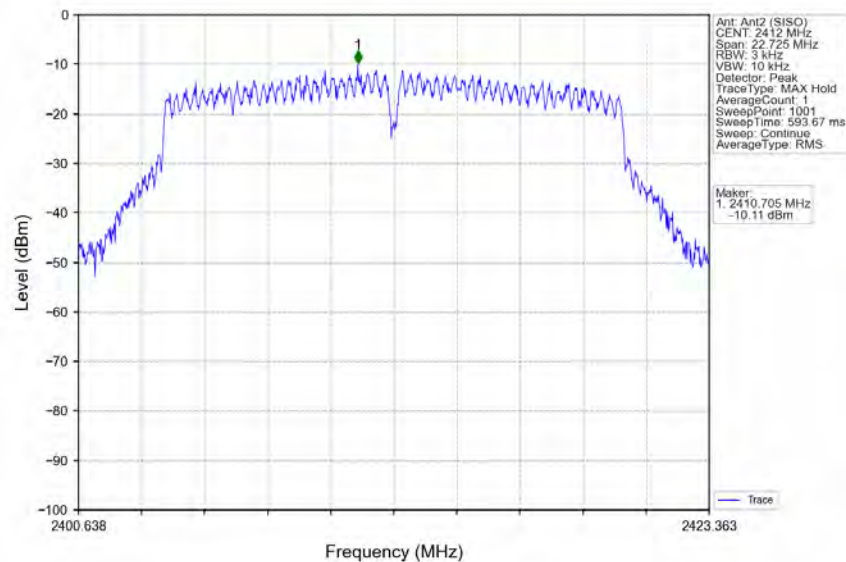
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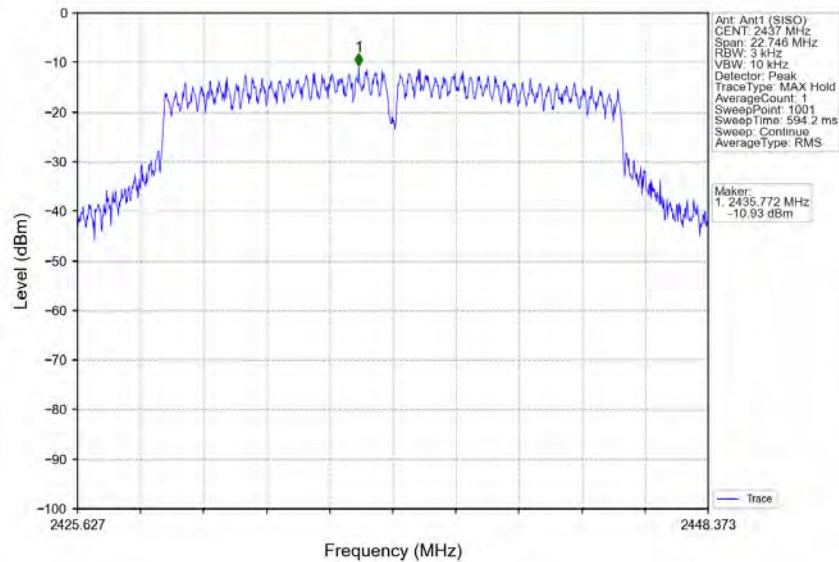
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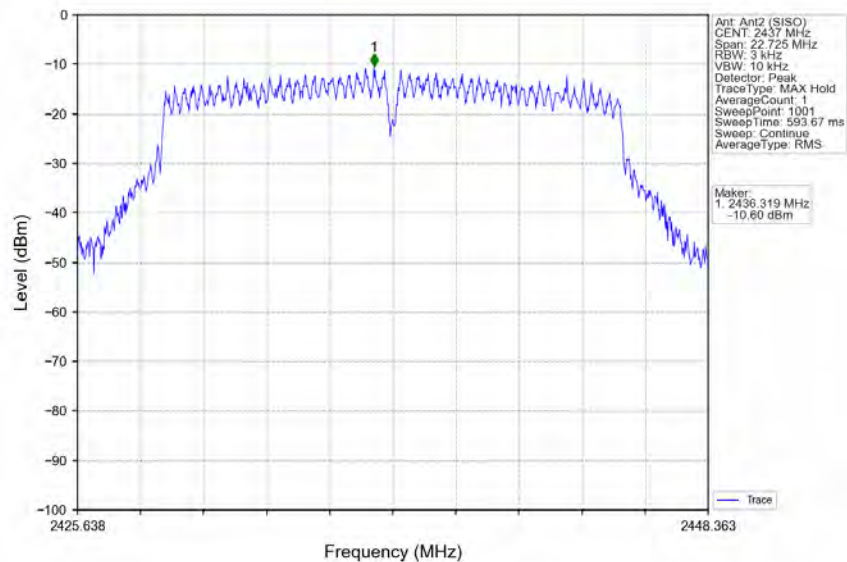
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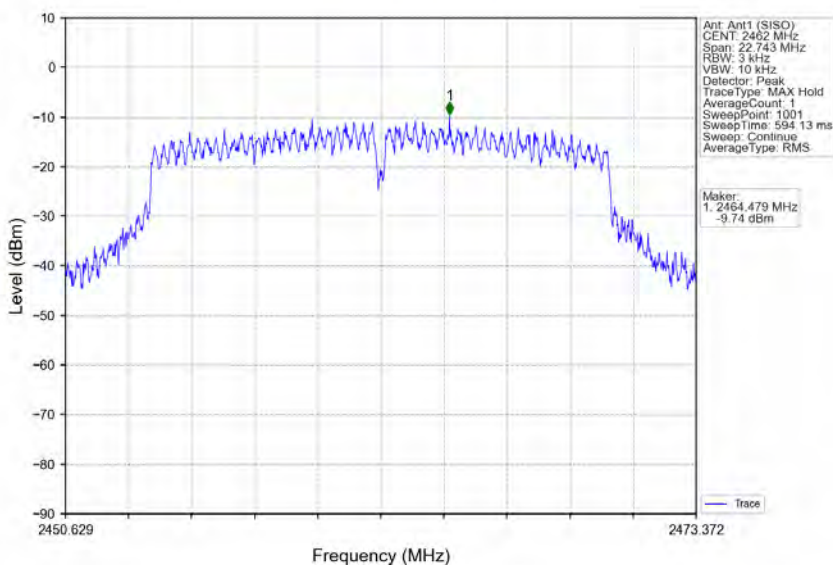
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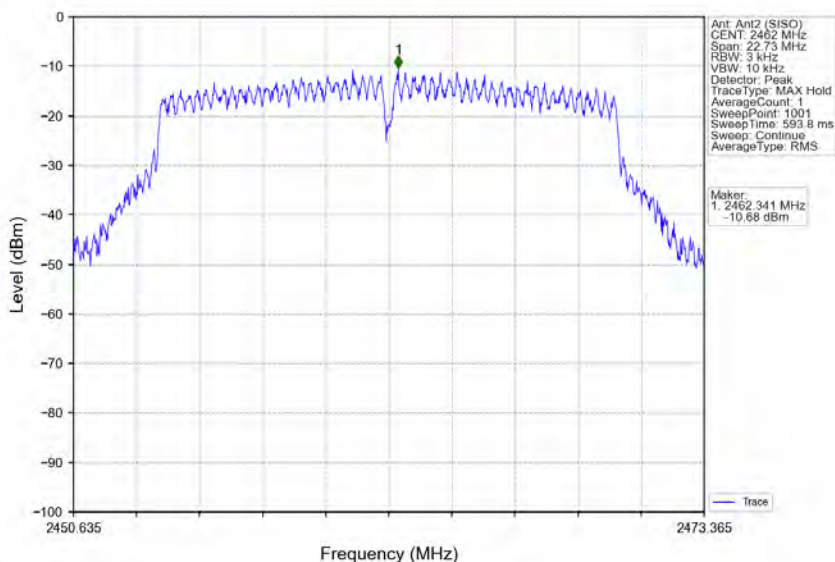
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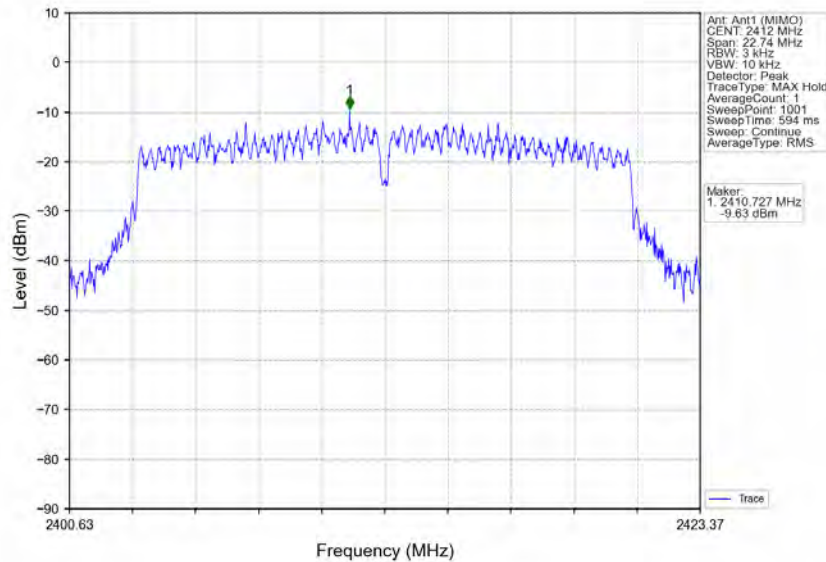
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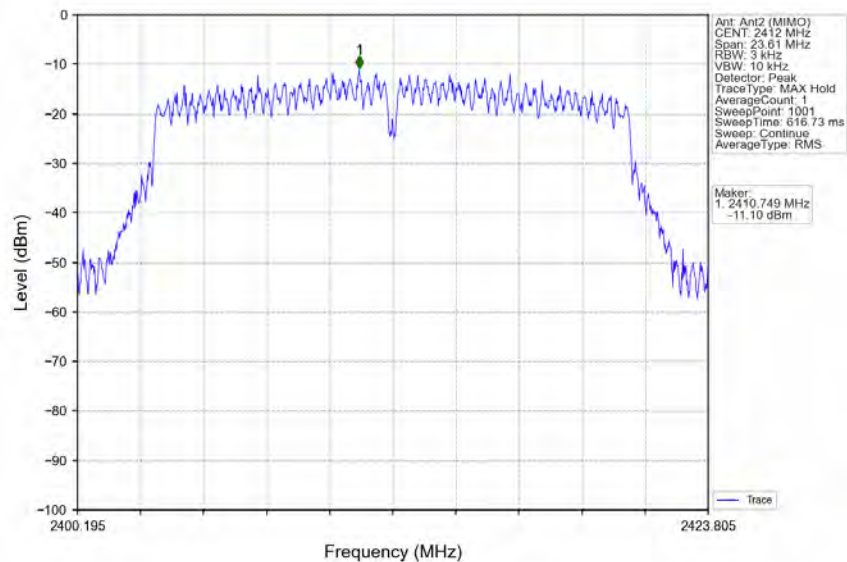
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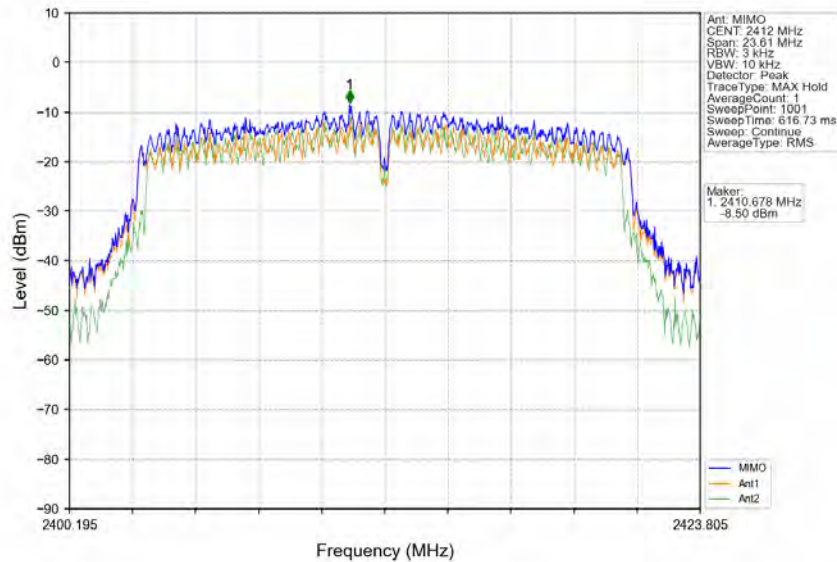
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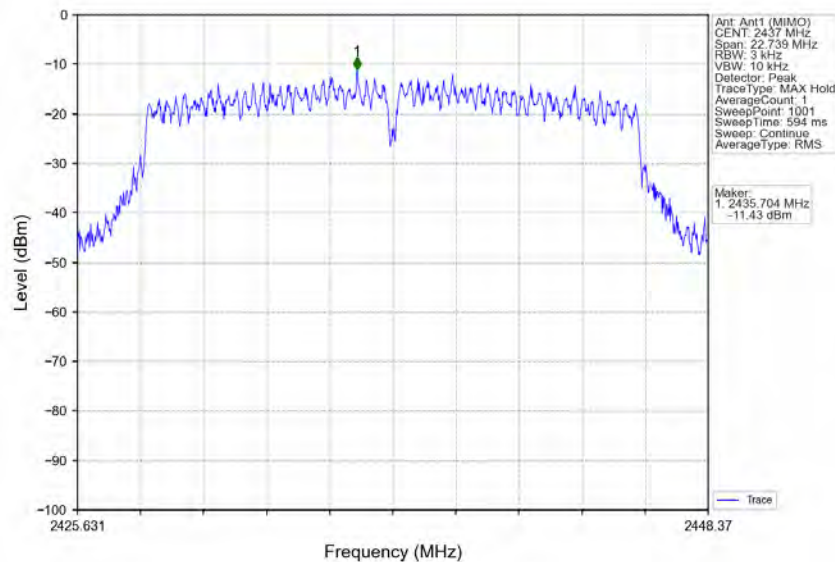
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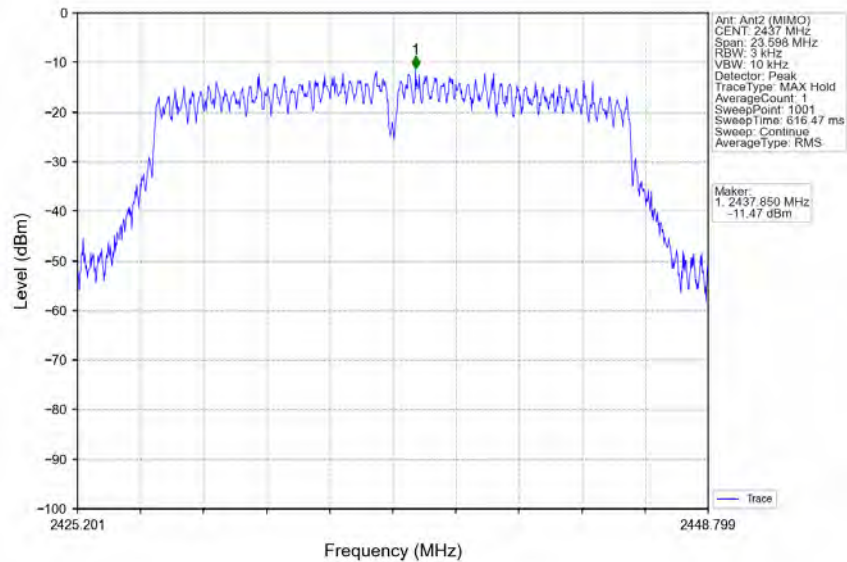
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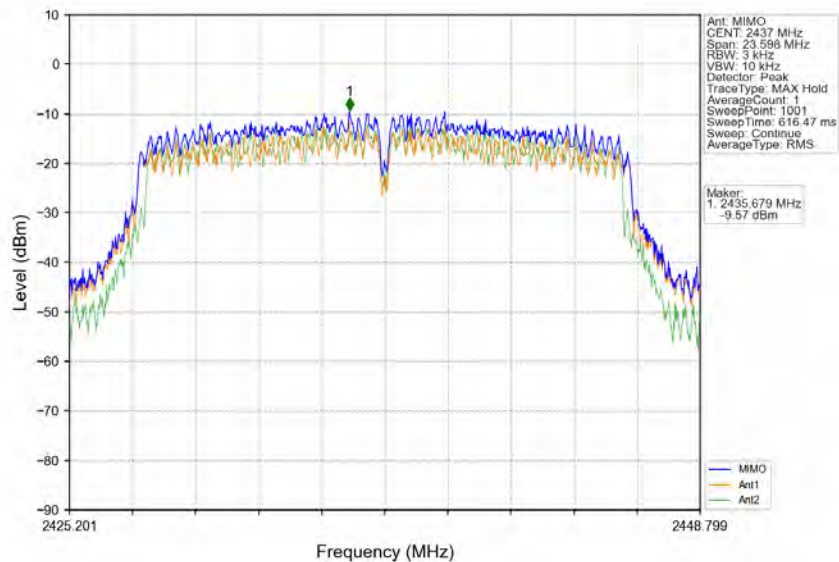
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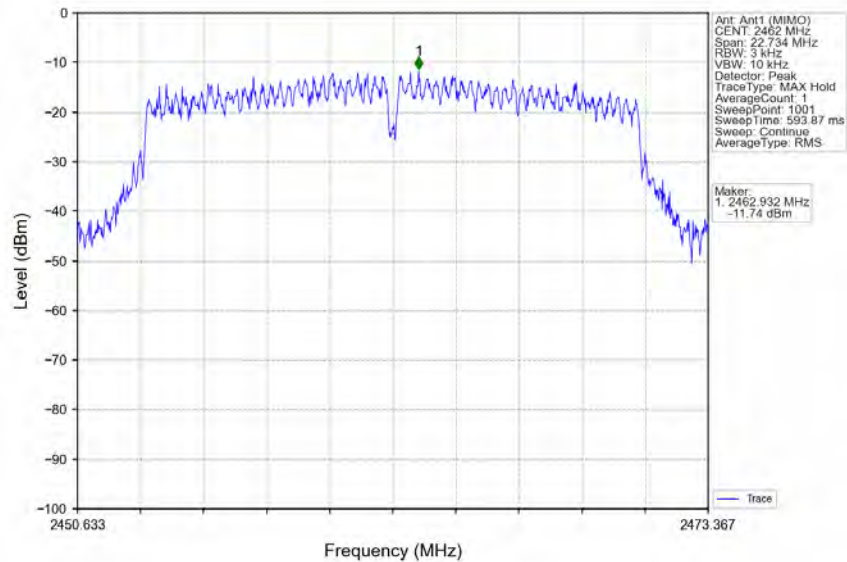
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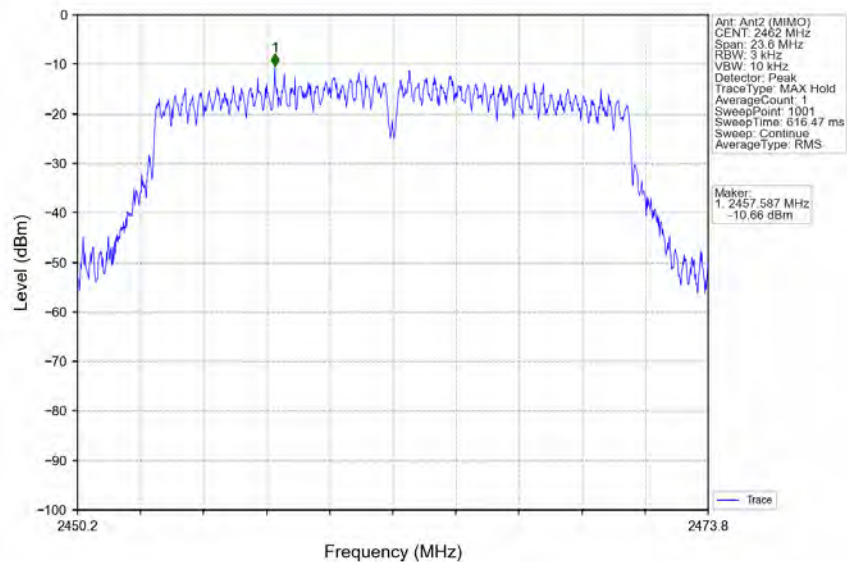
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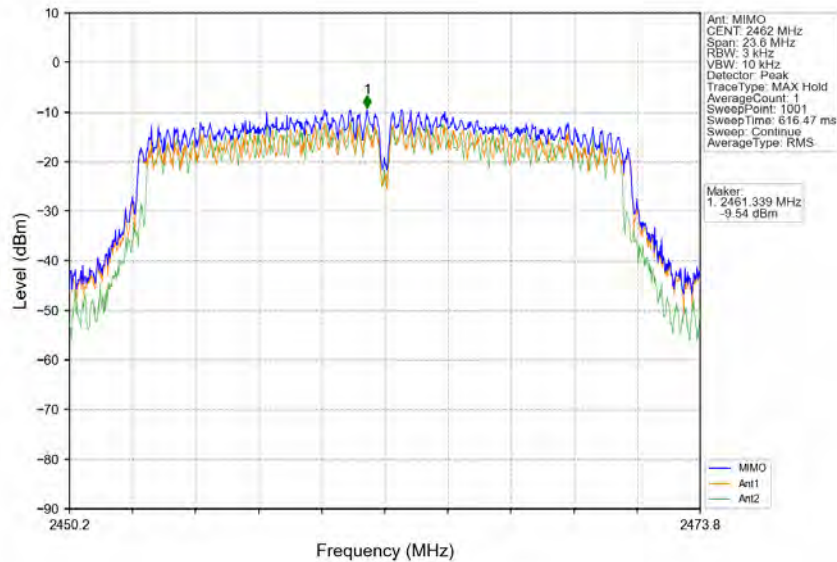
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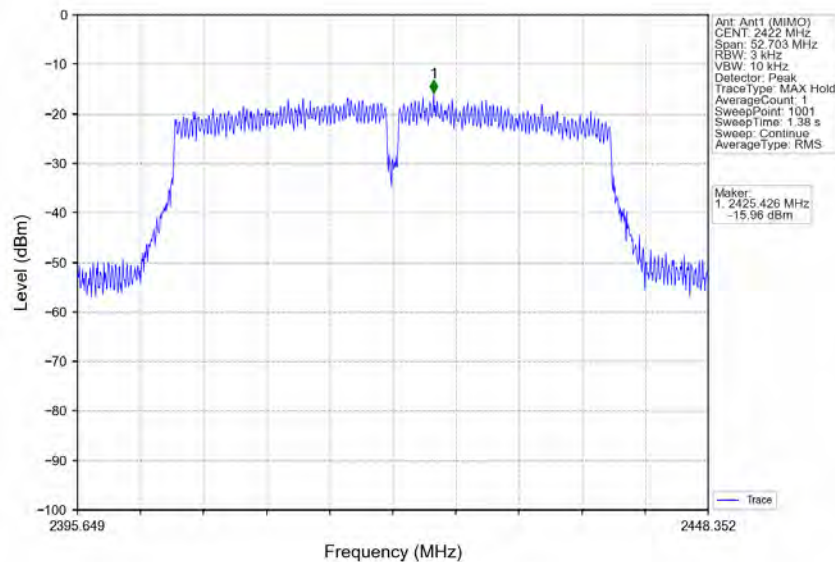
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802.11n(HT40) LCH 2422MHz\_Ant1 (MIMO) NTN



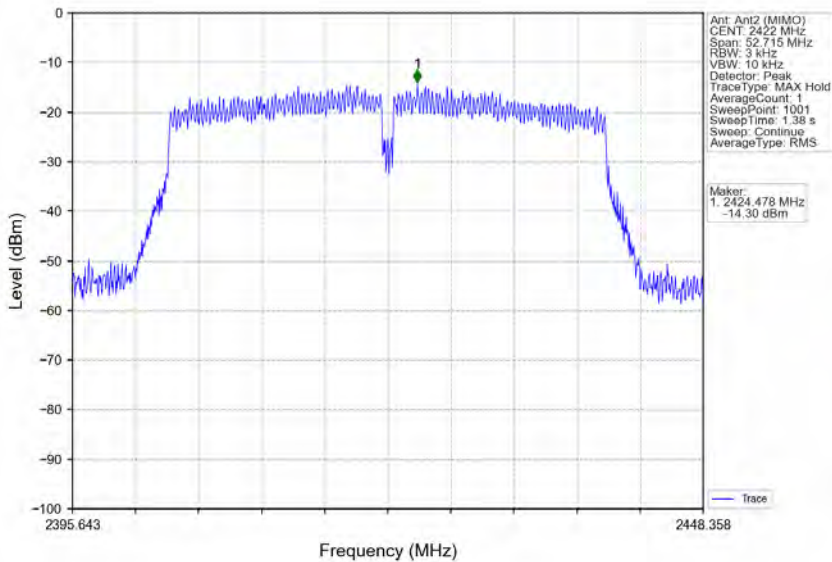
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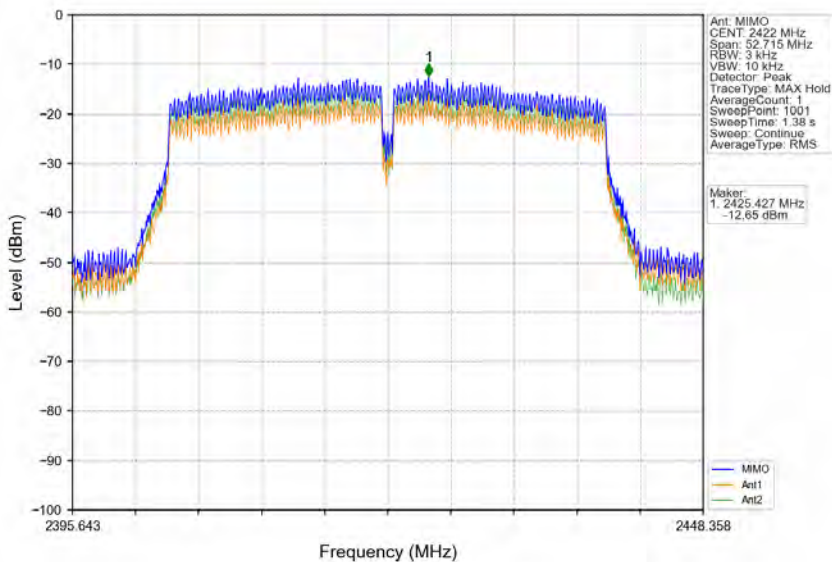
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802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTN



802.11n(HT40) LCH 2422MHz MIMO NTN



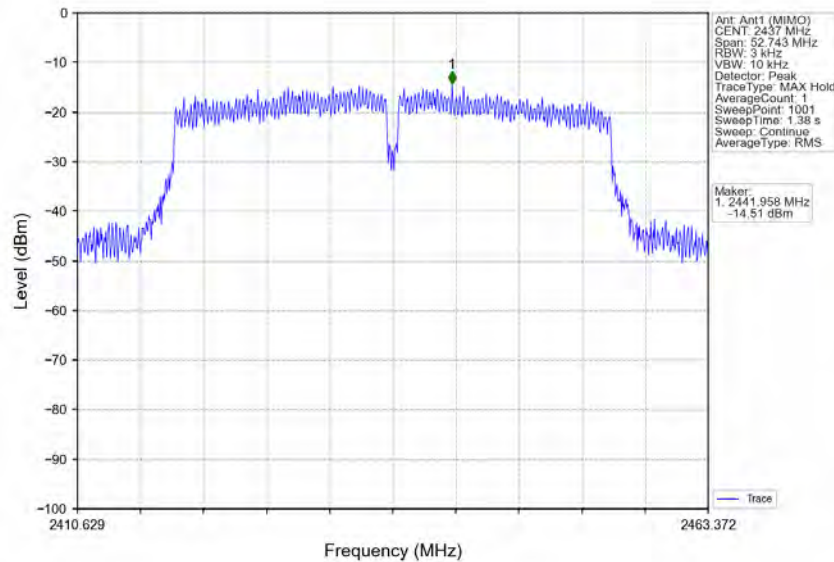
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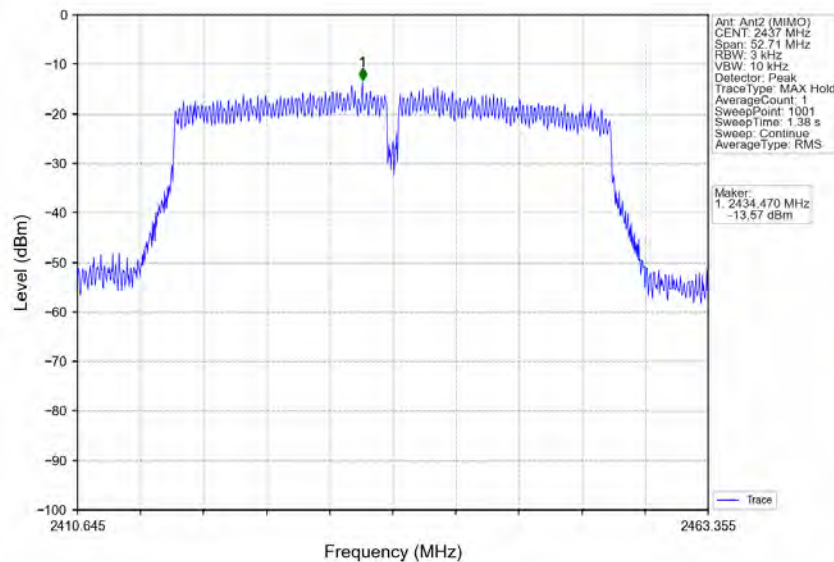
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802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNv



802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTNv



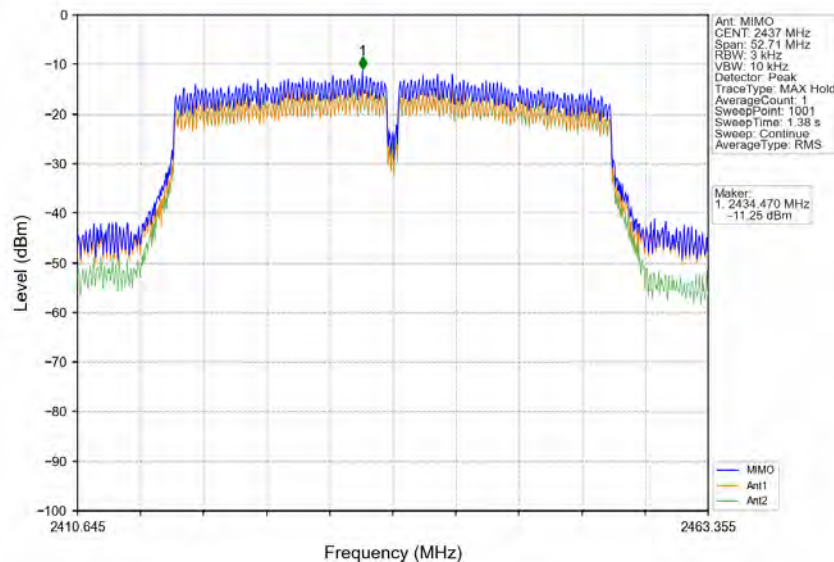
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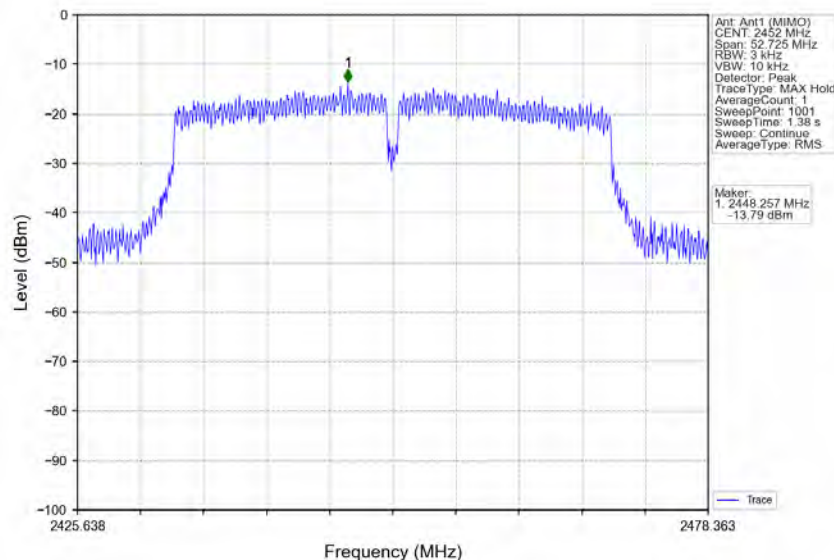
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802.11n(HT40) MCH 2437MHz MIMO NTN



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



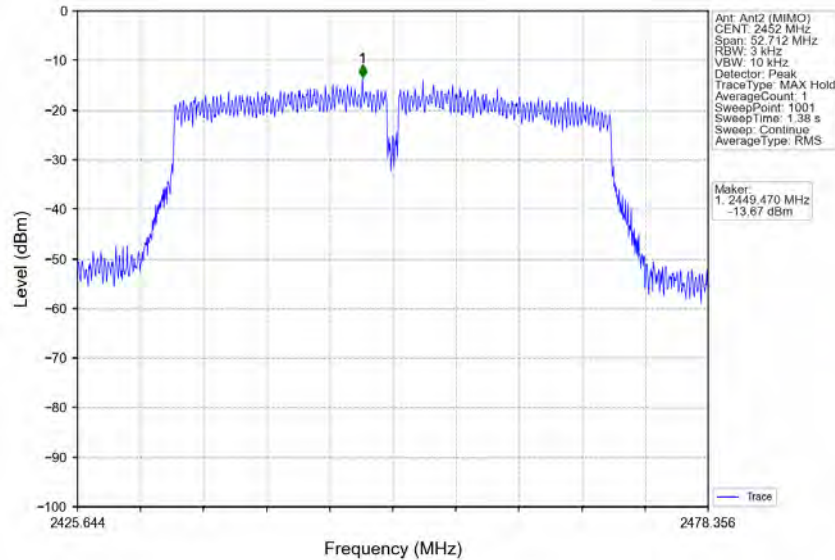
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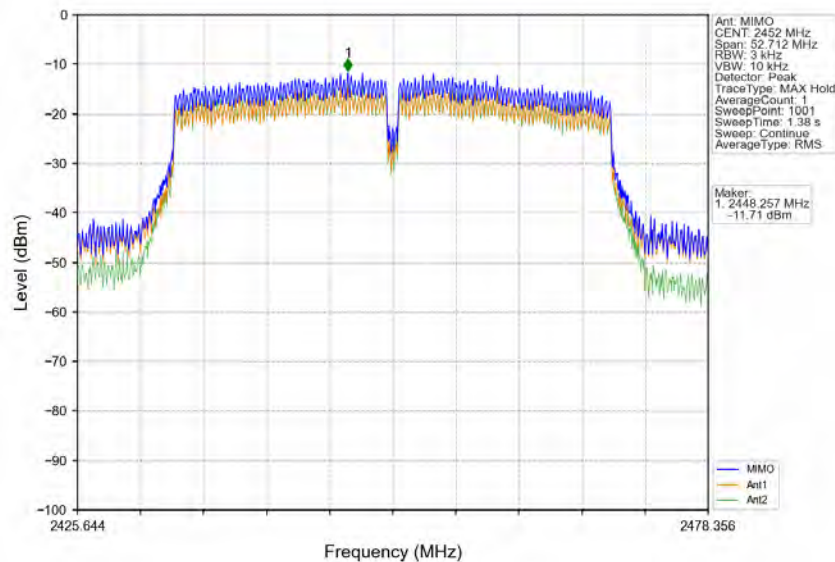
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Report No.: KSCR221000189001

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### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Ref

##### 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 7.78                     |
|                |         |                 | 2   | 7.89                     |
|                |         | 2437            | 1   | 7.48                     |
|                |         |                 | 2   | 9.22                     |
|                |         | 2462            | 1   | 7.81                     |
|                |         |                 | 2   | 8.92                     |
| 802.11g        | SISO    | 2412            | 1   | 5.07                     |
|                |         |                 | 2   | 5.80                     |
|                |         | 2437            | 1   | 5.51                     |
|                |         |                 | 2   | 5.90                     |
|                |         | 2462            | 1   | 6.17                     |
|                |         |                 | 2   | 5.94                     |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 5.06                     |
|                |         |                 | 2   | 4.87                     |
|                |         | 2437            | 1   | 4.59                     |
|                |         |                 | 2   | 4.90                     |
|                |         | 2462            | 1   | 5.20                     |
|                |         |                 | 2   | 4.70                     |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 0.19                     |
|                |         |                 | 2   | 2.26                     |
|                |         | 2437            | 1   | 2.08                     |
|                |         |                 | 2   | 2.11                     |
|                |         | 2452            | 1   | 2.14                     |
|                |         |                 | 2   | 2.26                     |

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



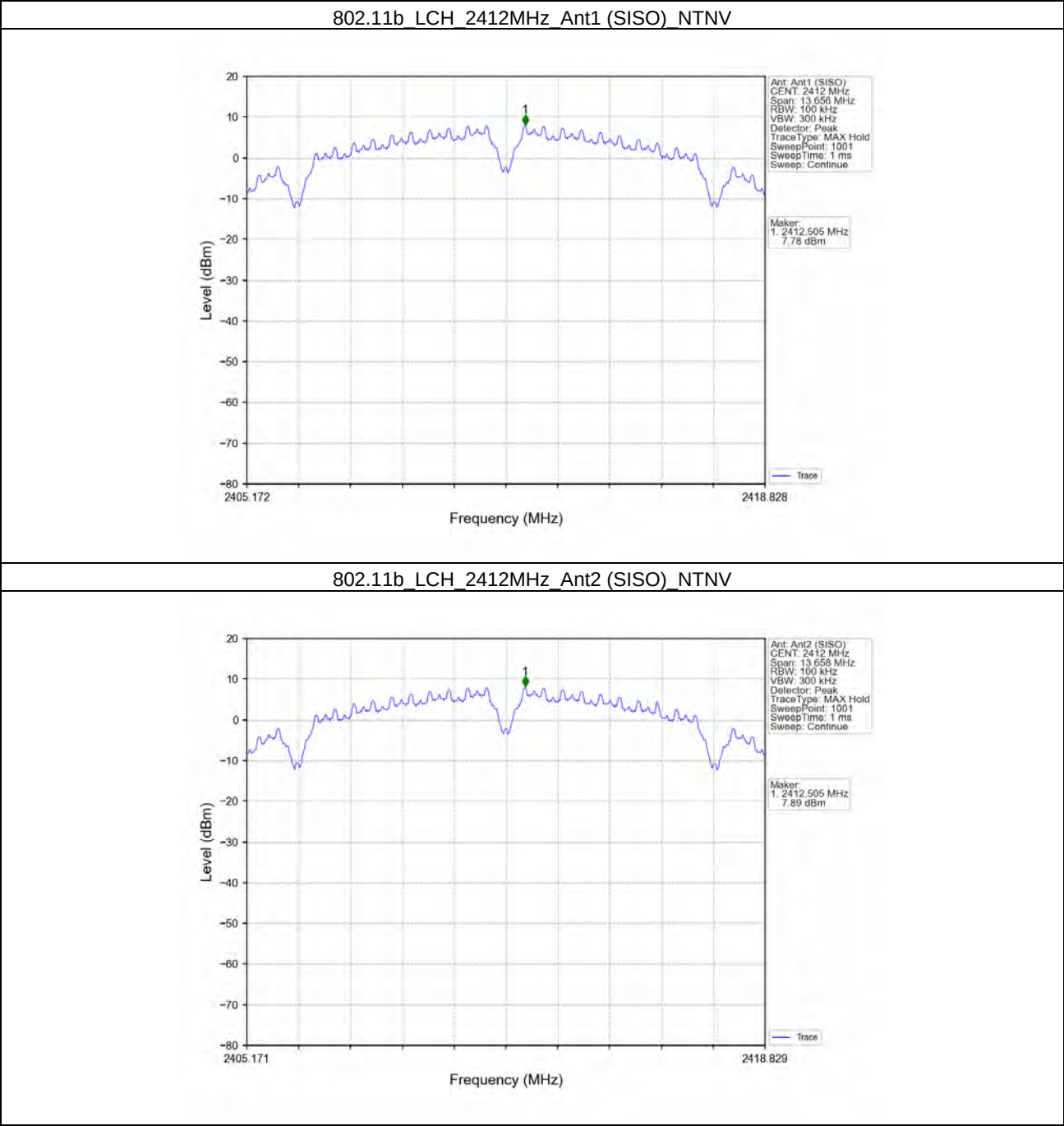
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### 5.1.2 Test Graph



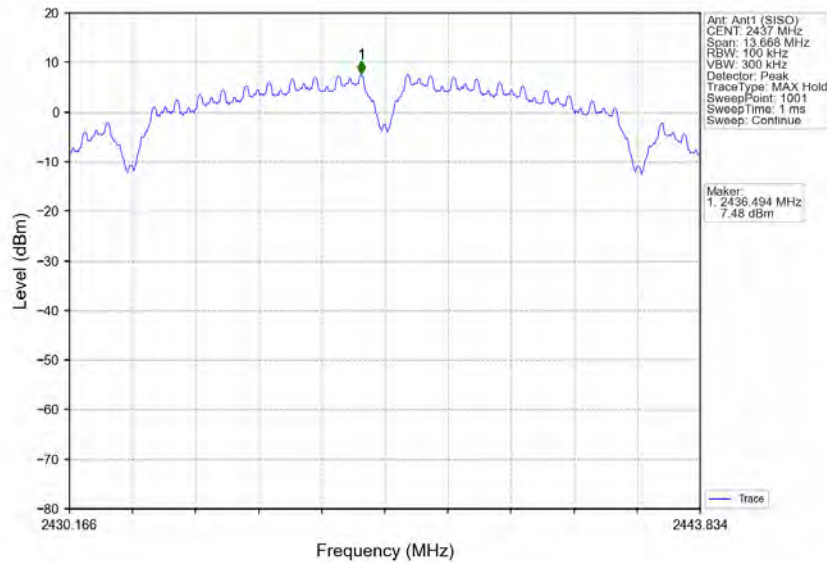
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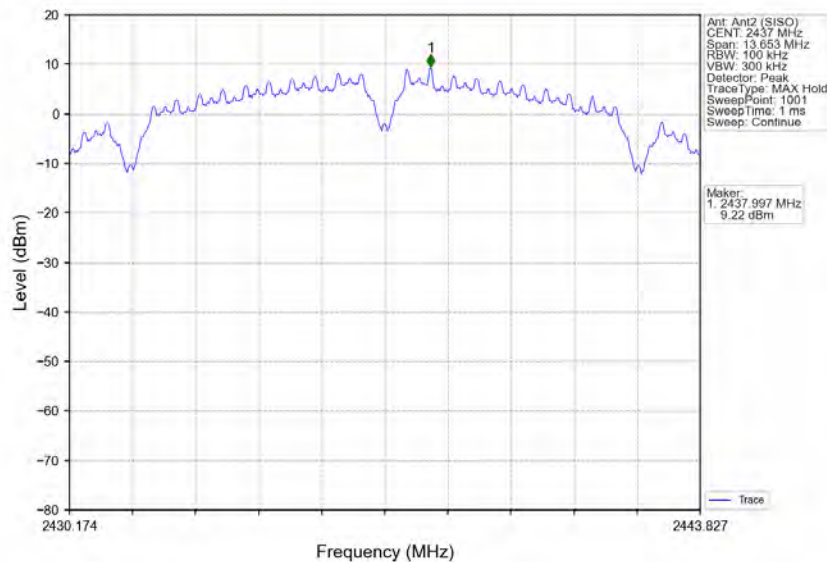
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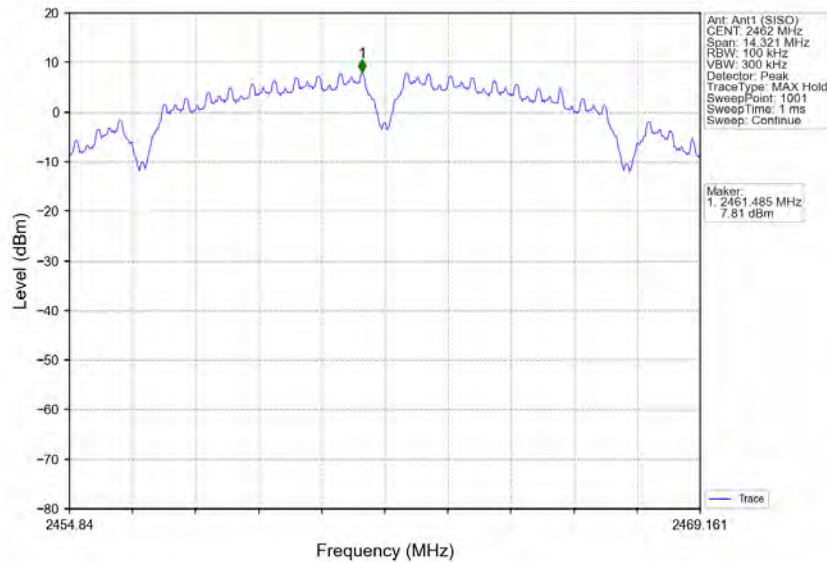
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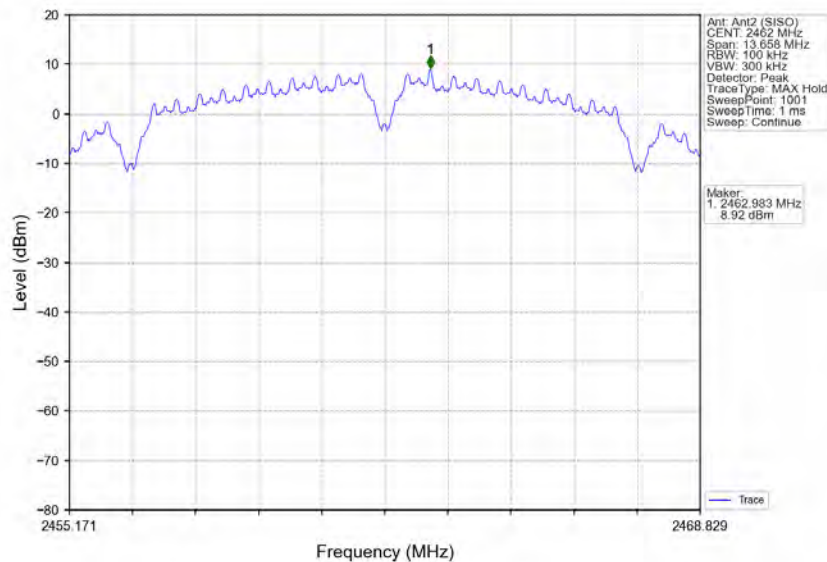
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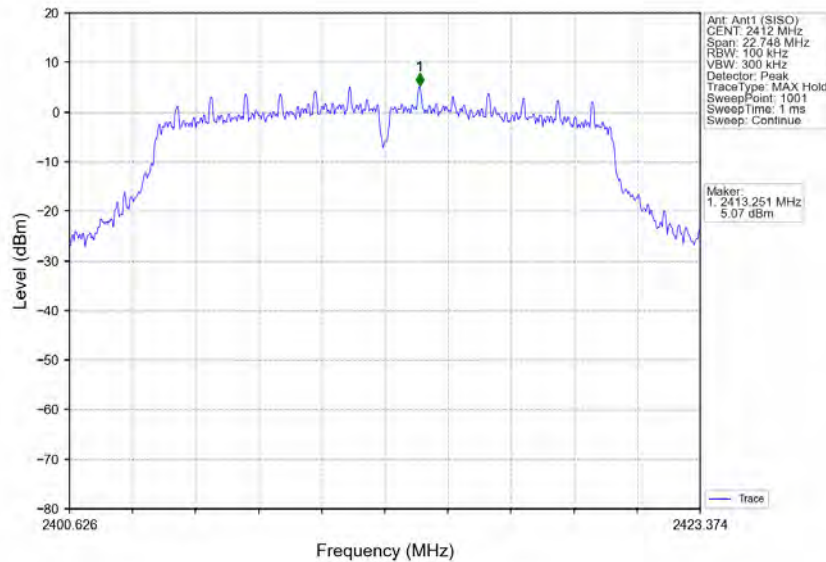
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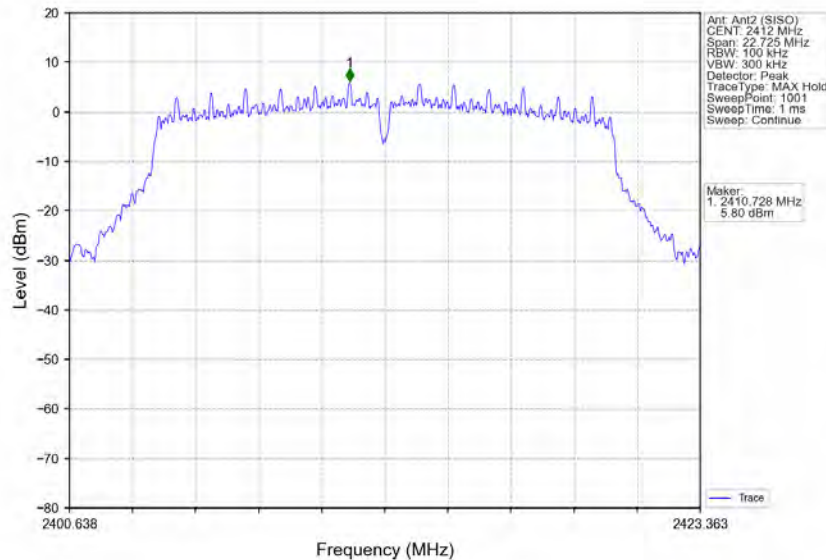
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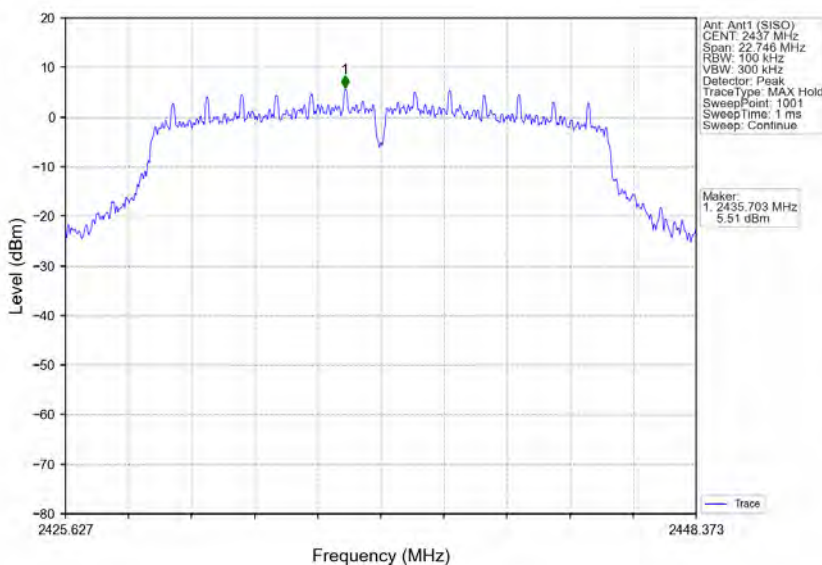
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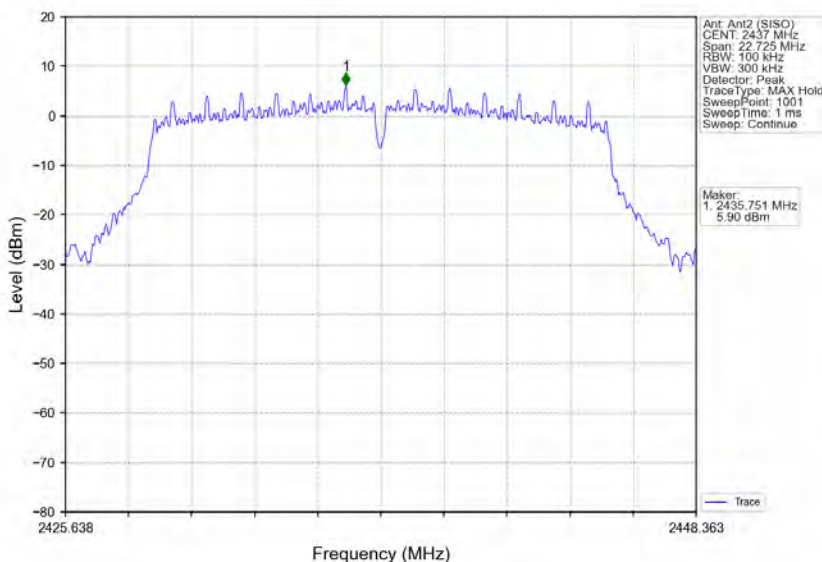
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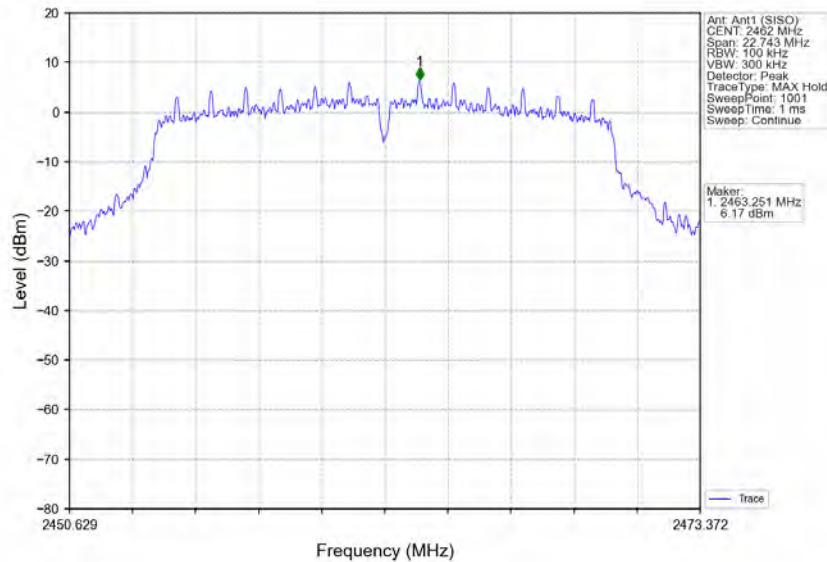
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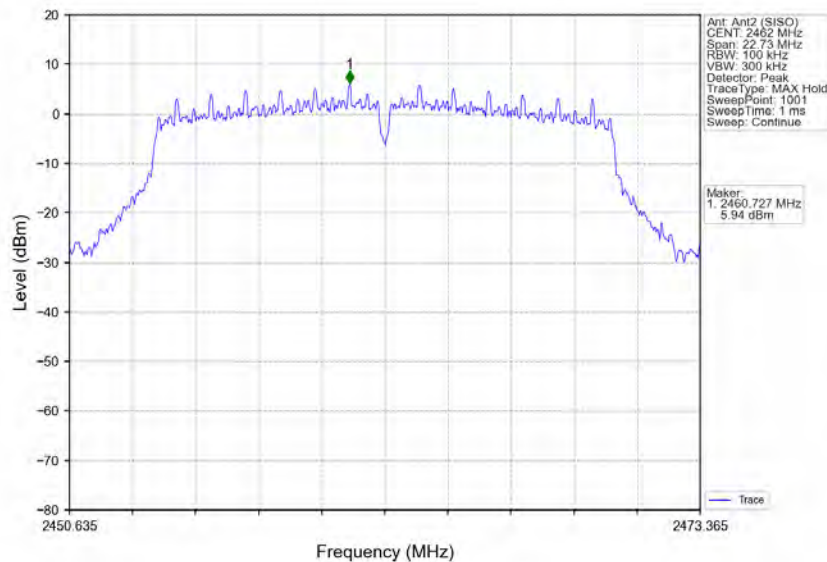
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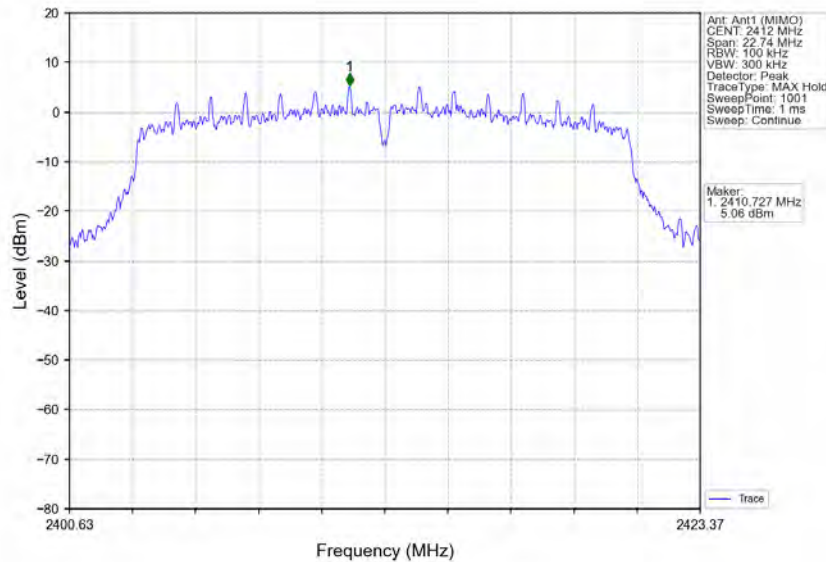
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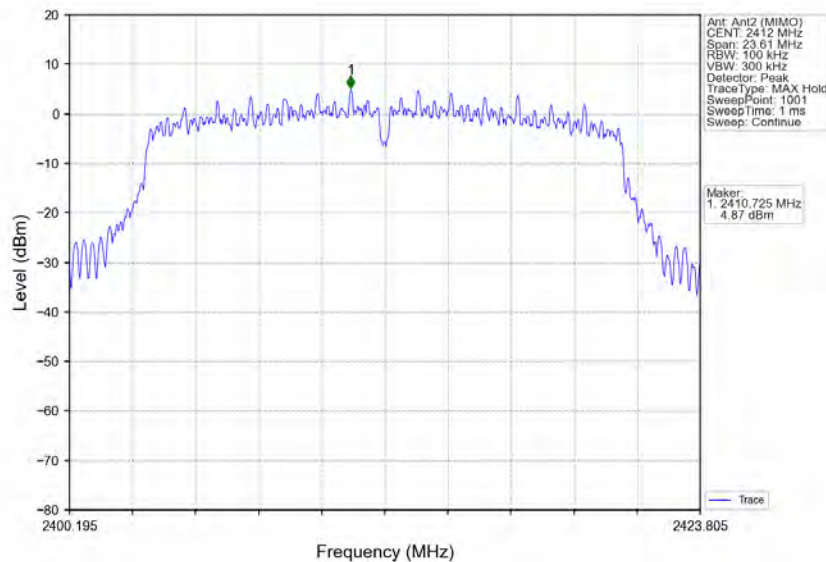
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



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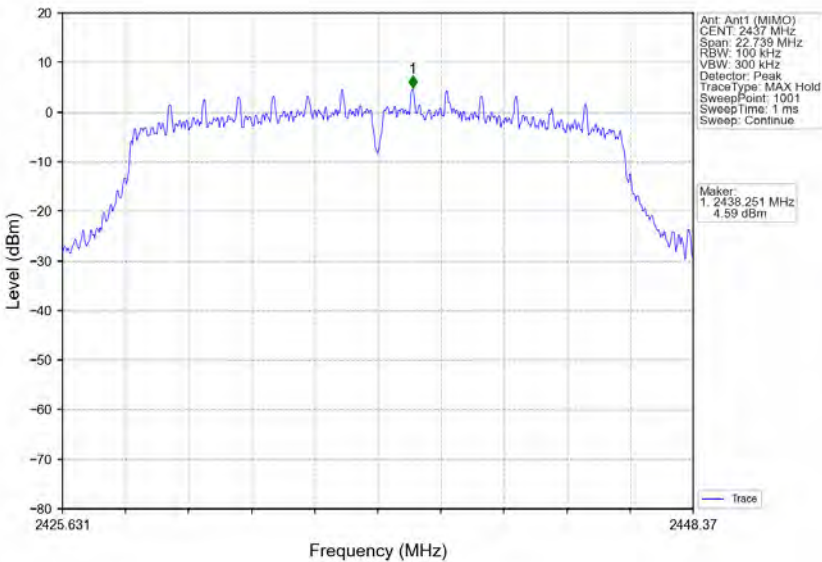
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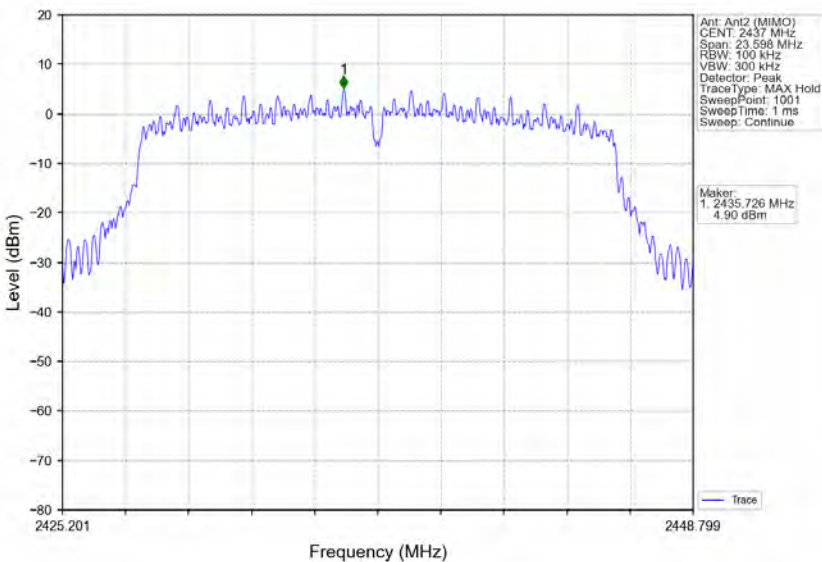
Report No.: KSCR221000189001

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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



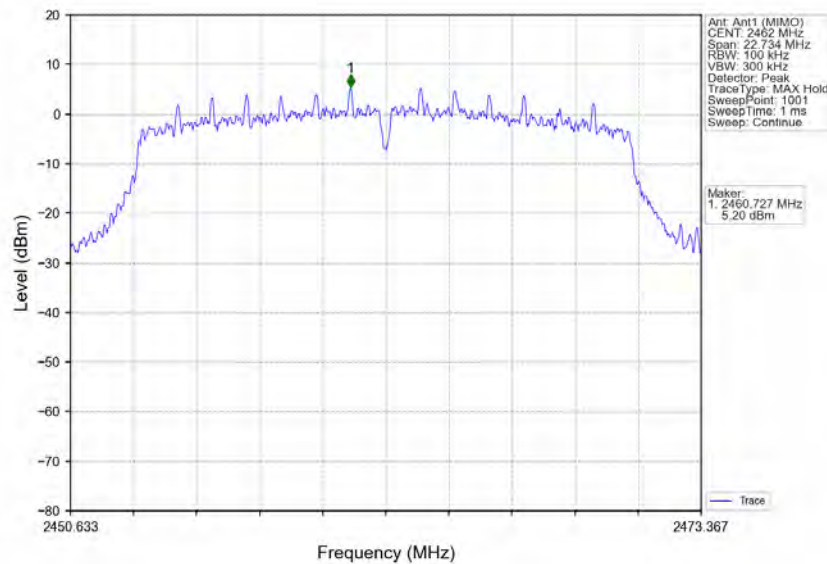
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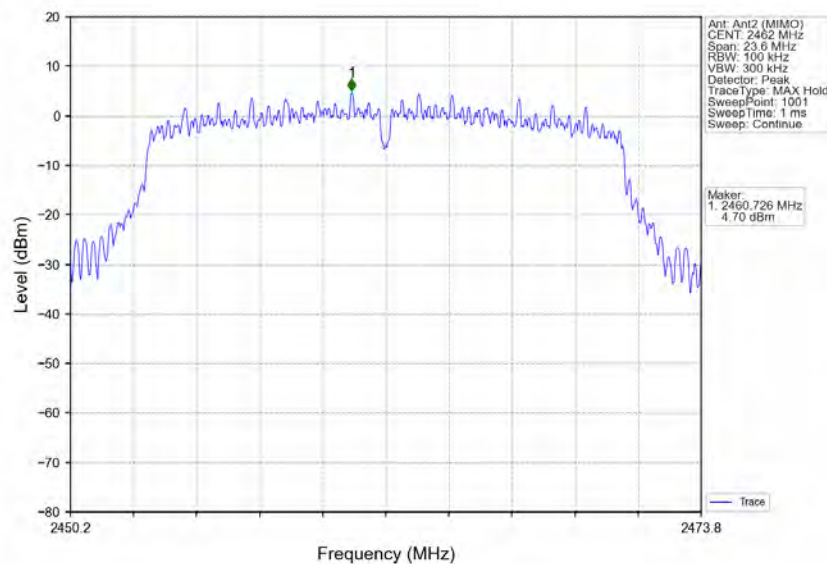
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTNV



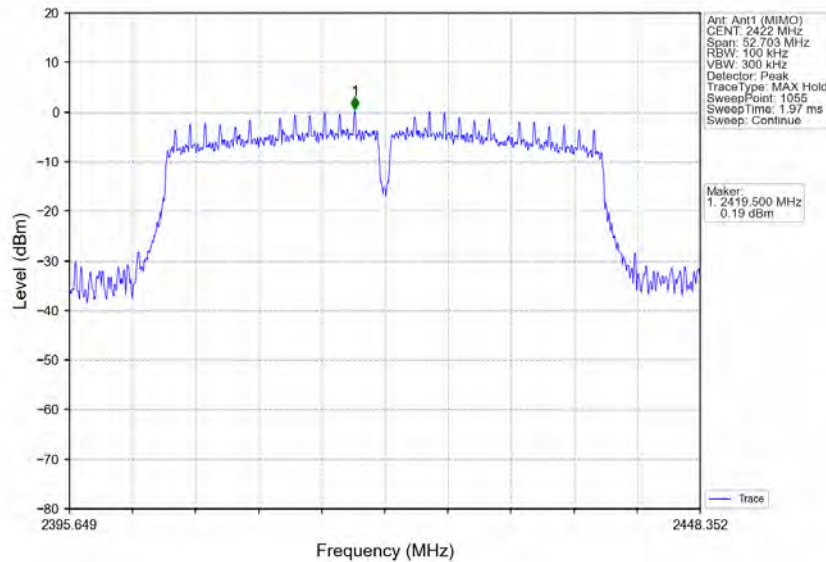
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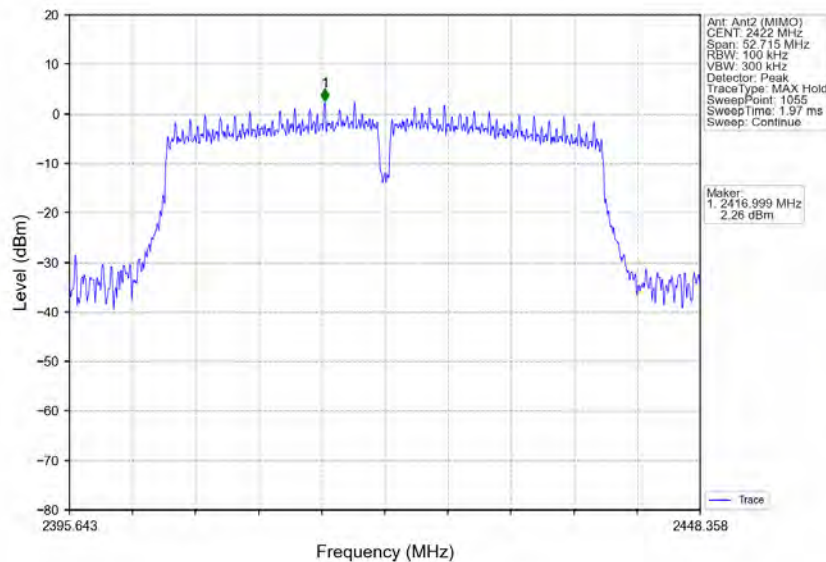
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



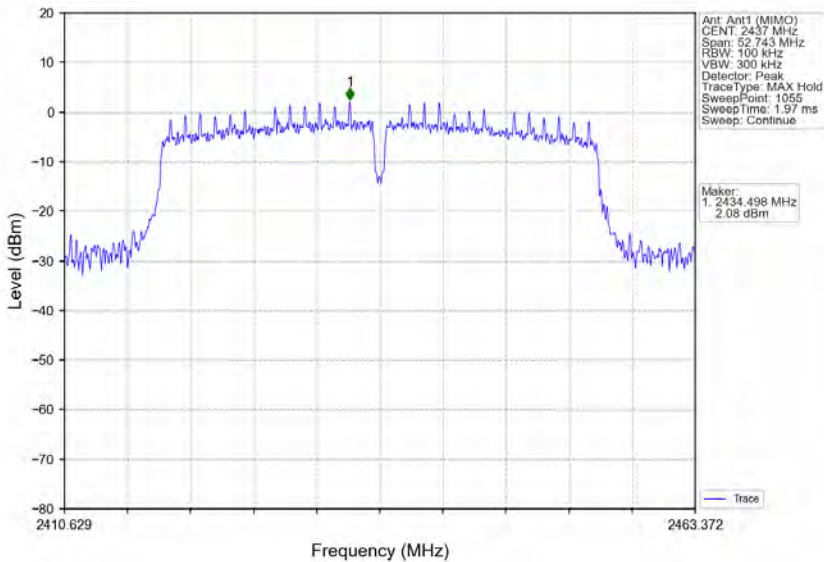
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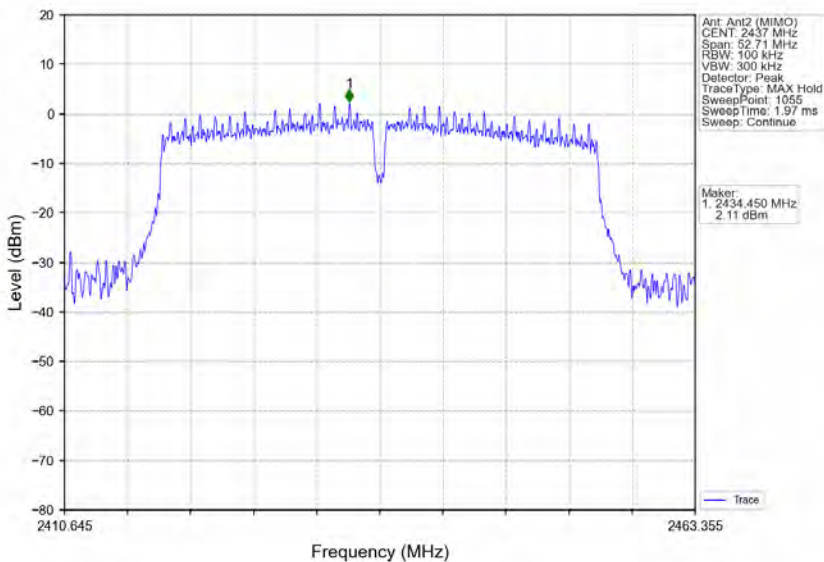
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802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTN



802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTN



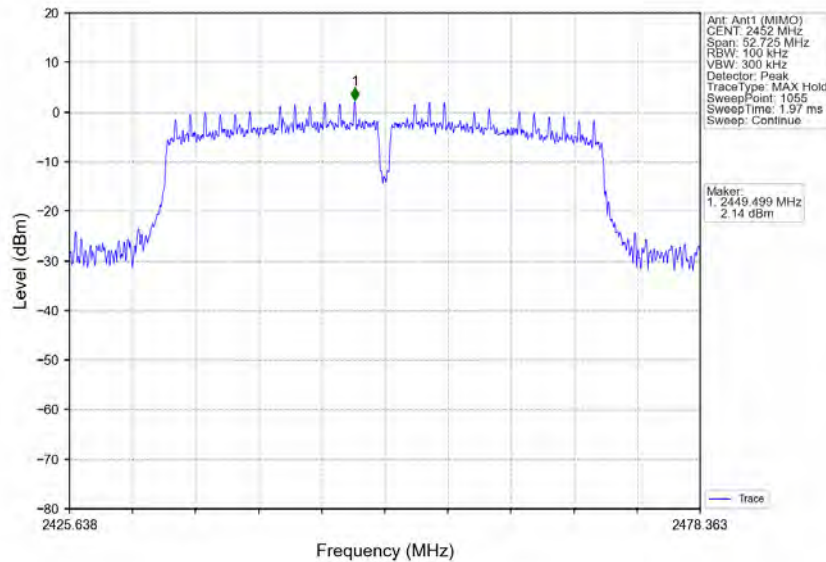
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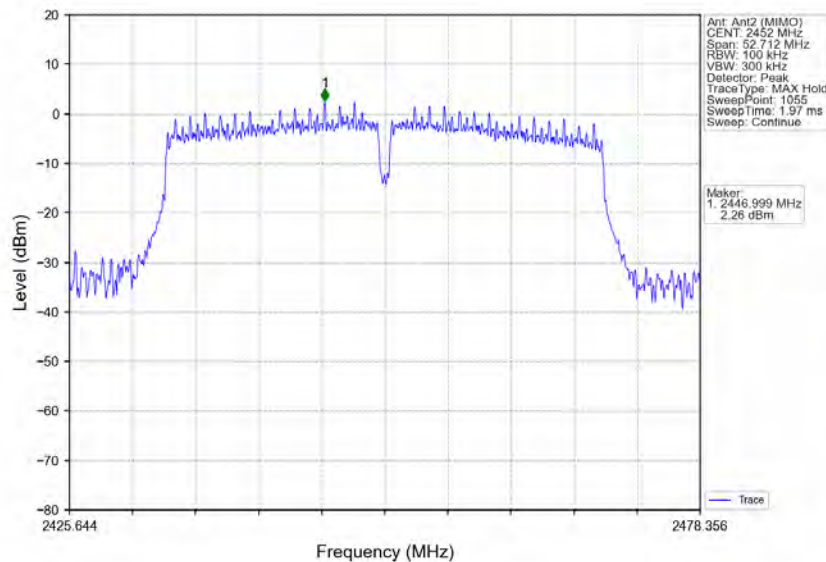
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189001

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### 5.2 CSE

#### 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 7.81                     | -22.19      | Pass    |
|                |         |                 | 2   | 9.22                     | -20.78      | Pass    |
|                |         | 2437            | 1   | 7.81                     | -22.19      | Pass    |
|                |         |                 | 2   | 9.22                     | -20.78      | Pass    |
|                |         | 2462            | 1   | 7.81                     | -22.19      | Pass    |
|                |         |                 | 2   | 9.22                     | -20.78      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 6.17                     | -23.83      | Pass    |
|                |         |                 | 2   | 5.94                     | -24.06      | Pass    |
|                |         | 2437            | 1   | 6.17                     | -23.83      | Pass    |
|                |         |                 | 2   | 5.94                     | -24.06      | Pass    |
|                |         | 2462            | 1   | 6.17                     | -23.83      | Pass    |
|                |         |                 | 2   | 5.94                     | -24.06      | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 5.20                     | -24.80      | Pass    |
|                |         |                 | 2   | 4.90                     | -25.10      | Pass    |
|                |         | 2437            | 1   | 5.20                     | -24.80      | Pass    |
|                |         |                 | 2   | 4.90                     | -25.10      | Pass    |
|                |         | 2462            | 1   | 5.20                     | -24.80      | Pass    |
|                |         |                 | 2   | 4.90                     | -25.10      | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 2.14                     | -27.86      | Pass    |
|                |         |                 | 2   | 2.26                     | -27.74      | Pass    |
|                |         | 2437            | 1   | 2.14                     | -27.86      | Pass    |
|                |         |                 | 2   | 2.26                     | -27.74      | Pass    |
|                |         | 2452            | 1   | 2.14                     | -27.86      | Pass    |
|                |         |                 | 2   | 2.26                     | -27.74      | Pass    |

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



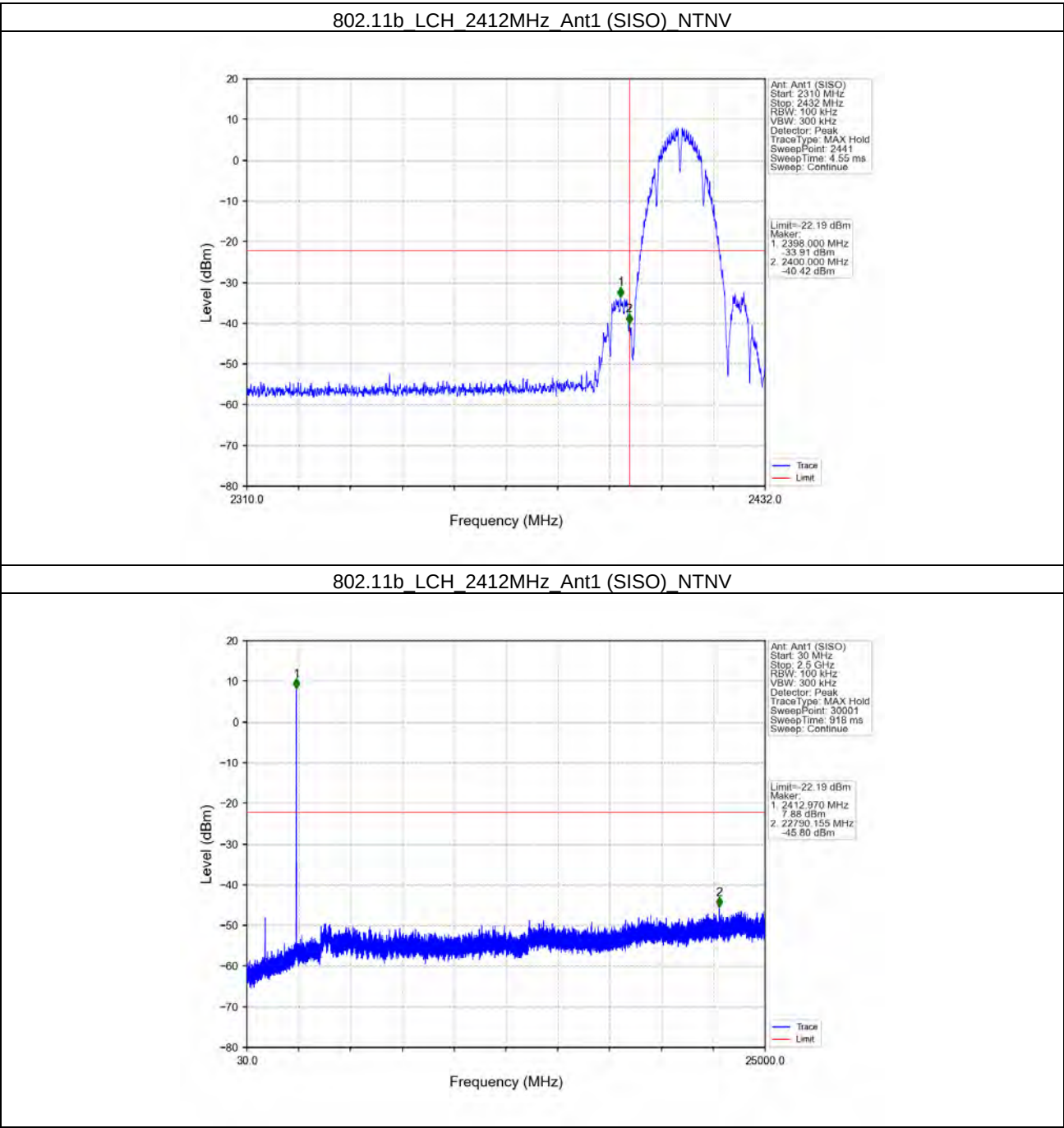
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### 5.2.2 Test Graph



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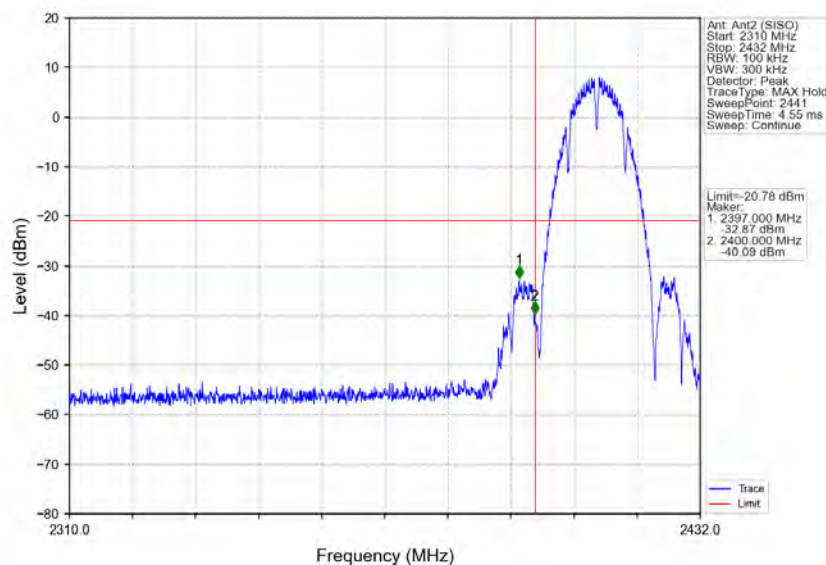
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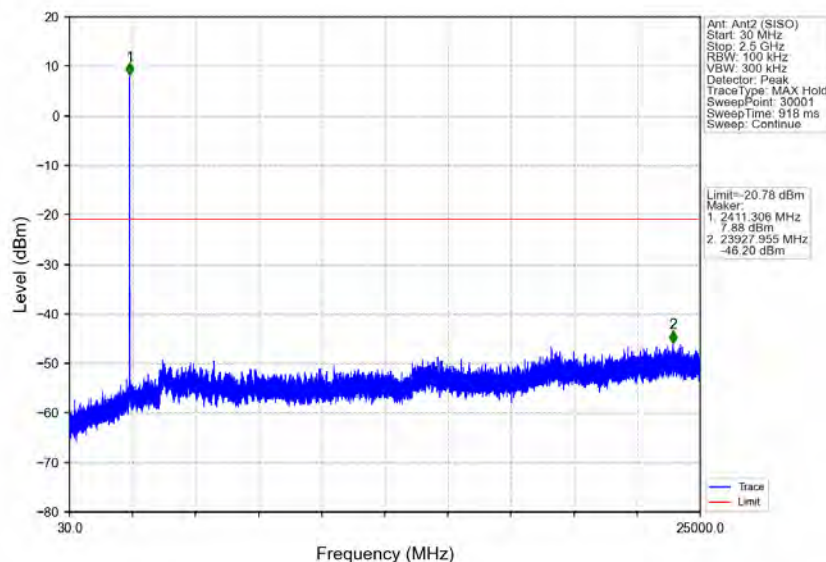
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802.11b LCH 2412MHz Ant2 (SISO) NTN



802.11b LCH 2412MHz Ant2 (SISO) NTN



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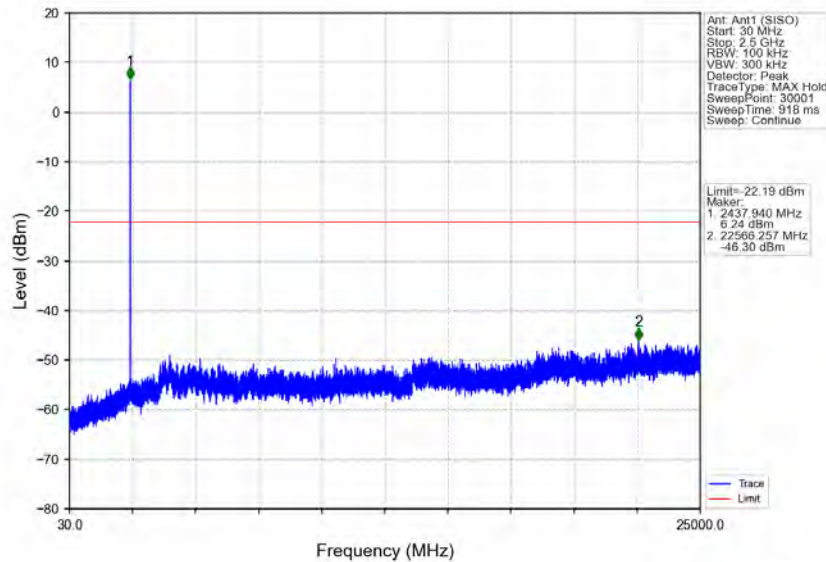
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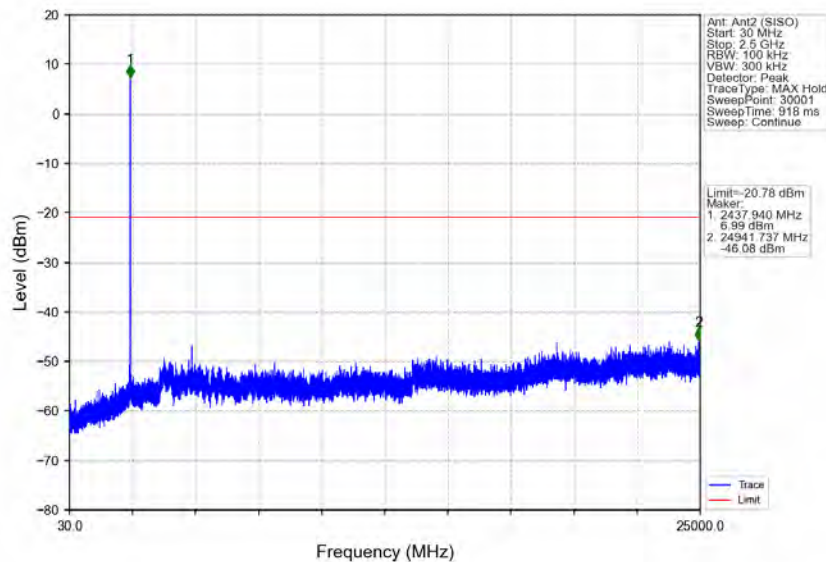
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### 802.11b MCH 2437MHz Ant1 (SISO) NTNv



### 802.11b MCH 2437MHz Ant2 (SISO) NTNv



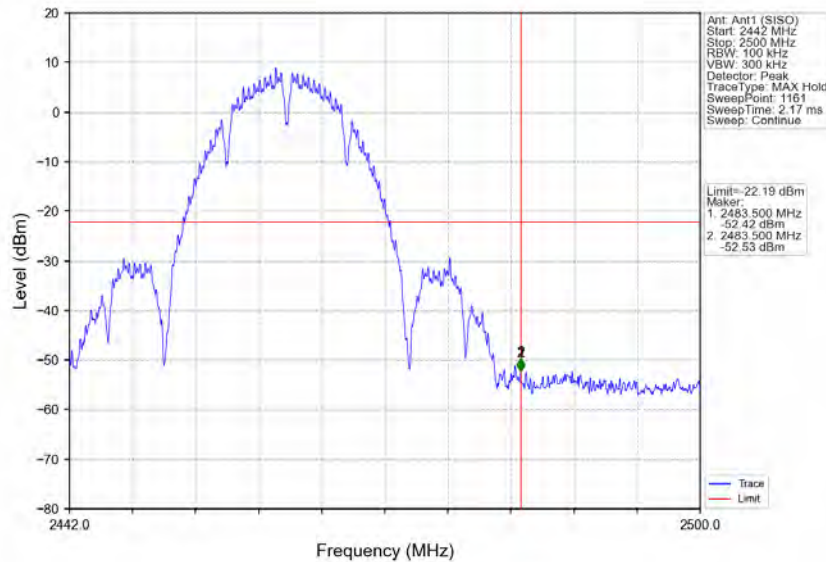
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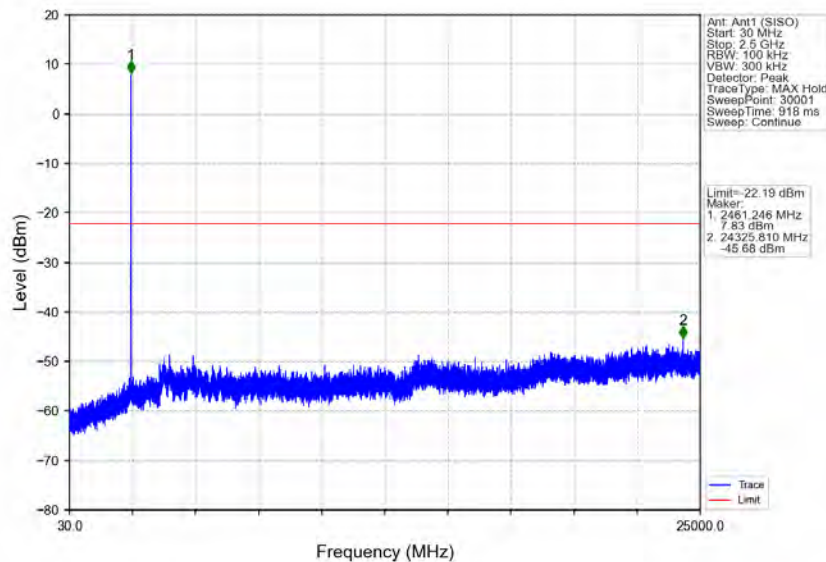
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802.11b HCH 2462MHz Ant1 (SISO) NTN



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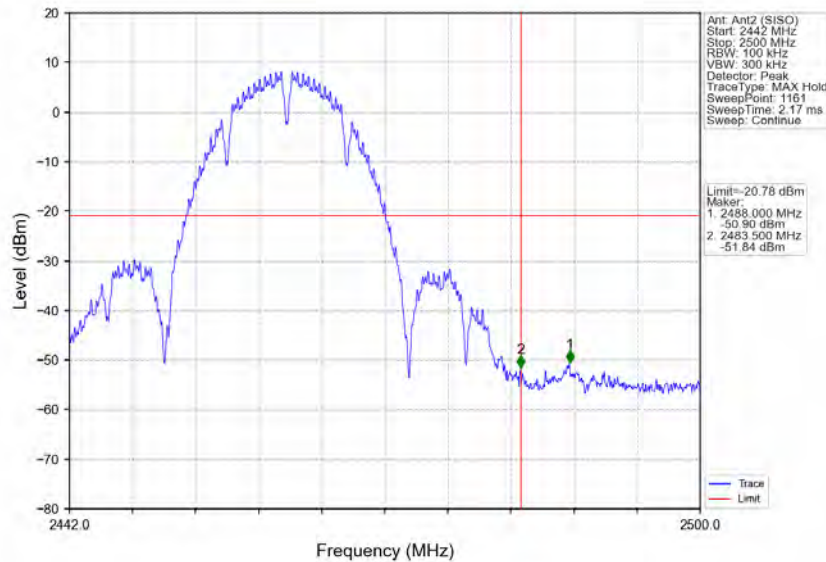
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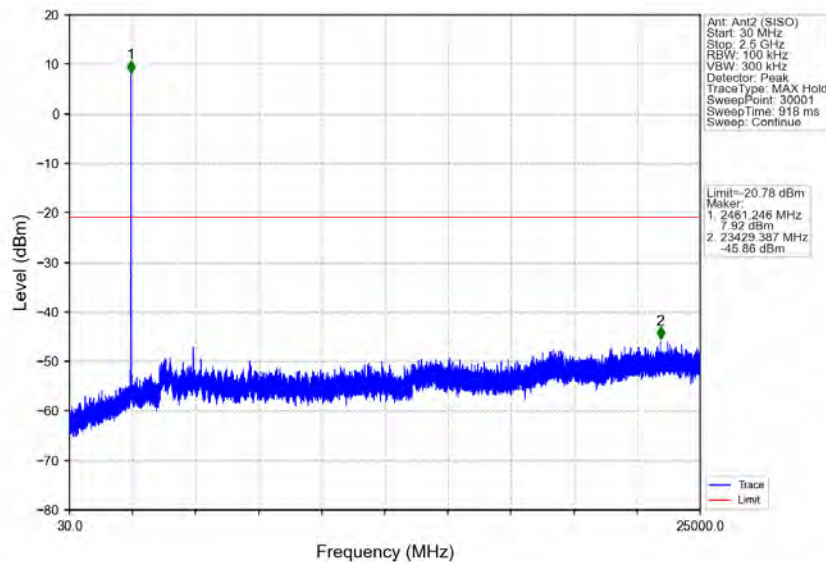
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802.11b HCH 2462MHz Ant2 (SISO) NTNv



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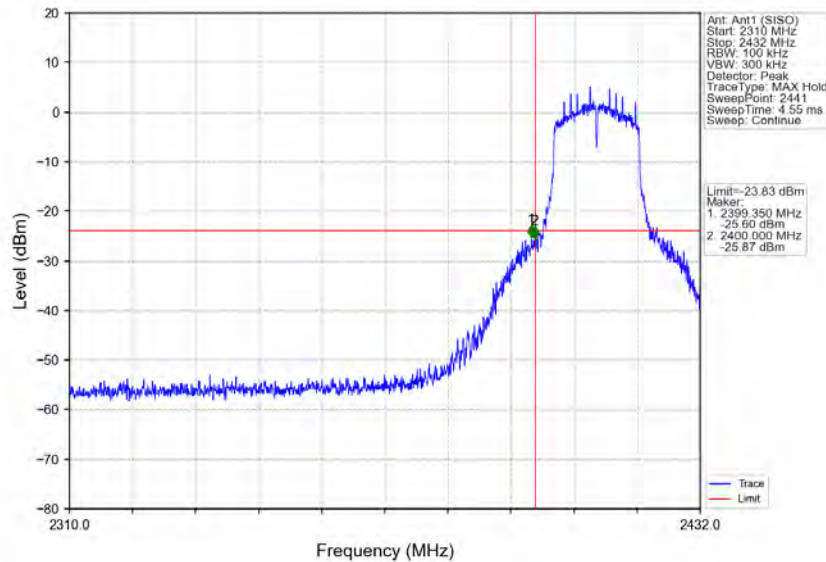
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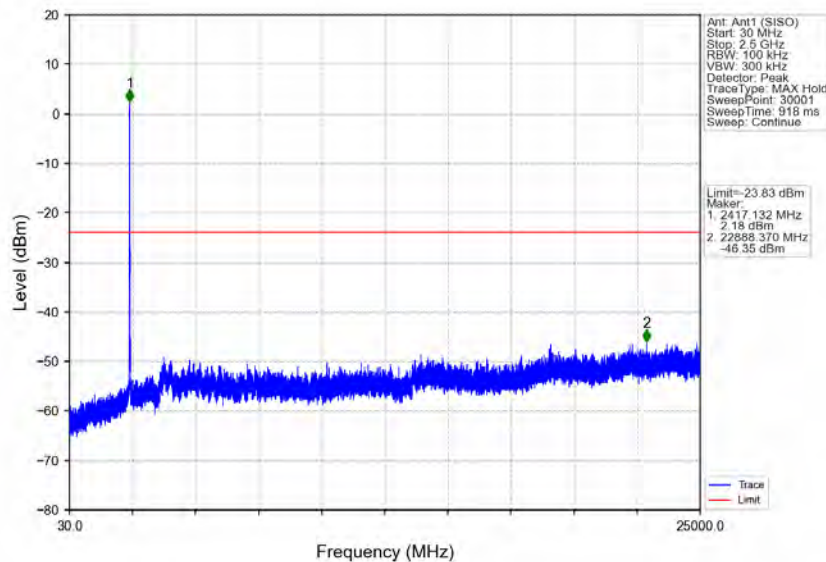
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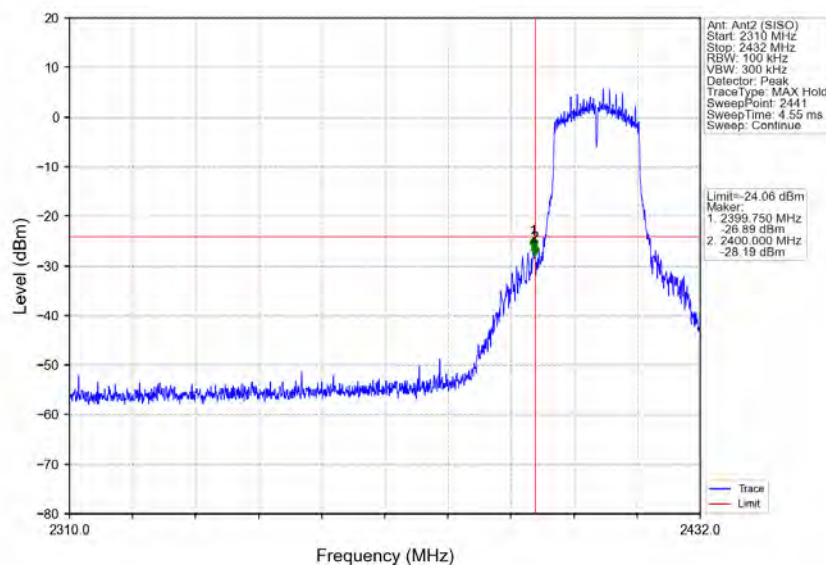
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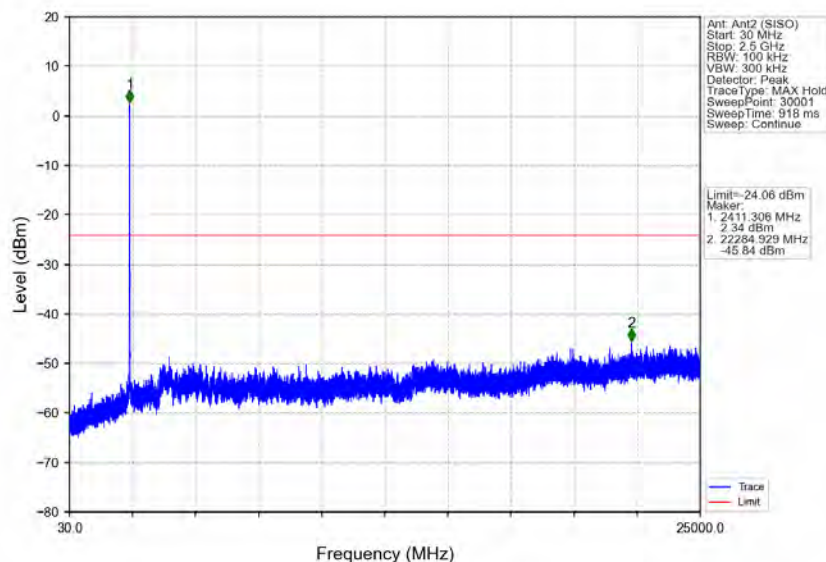
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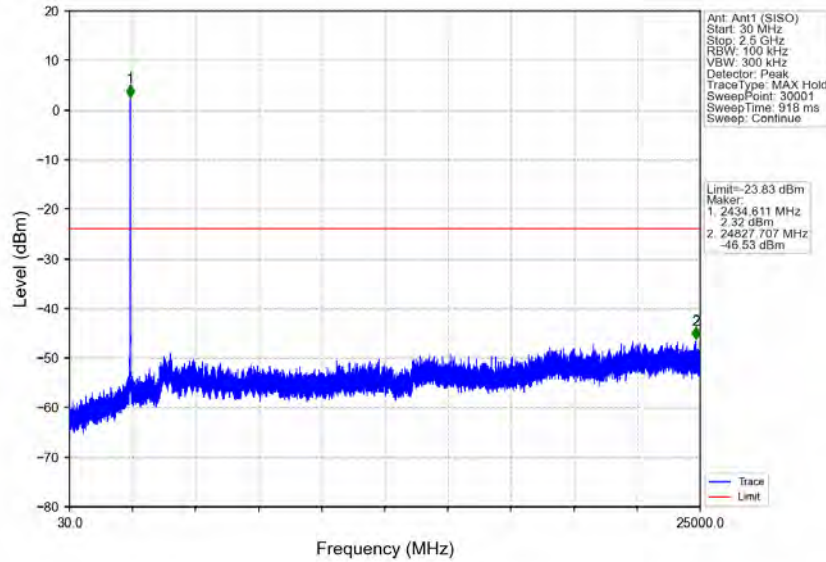
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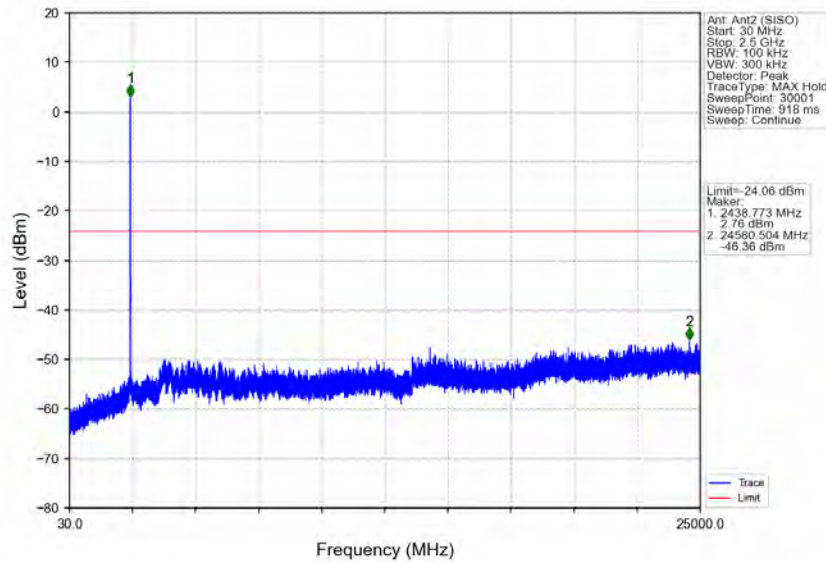
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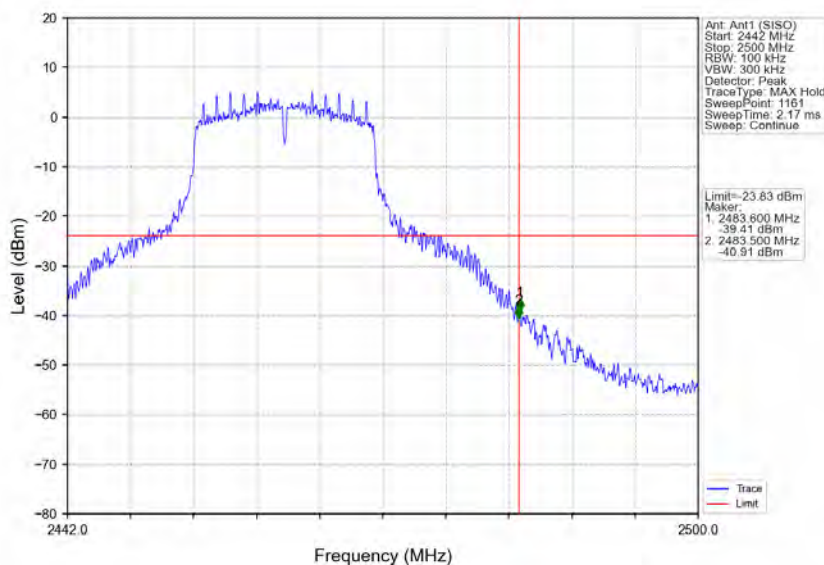
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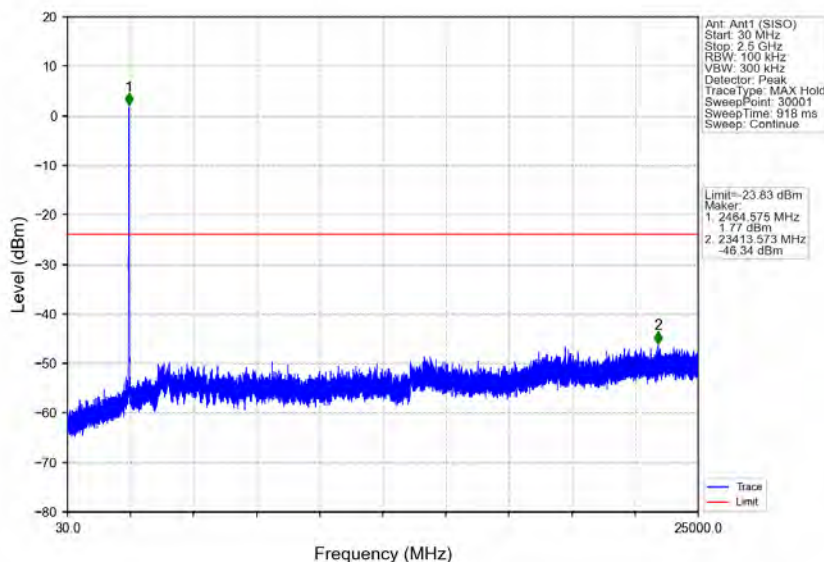
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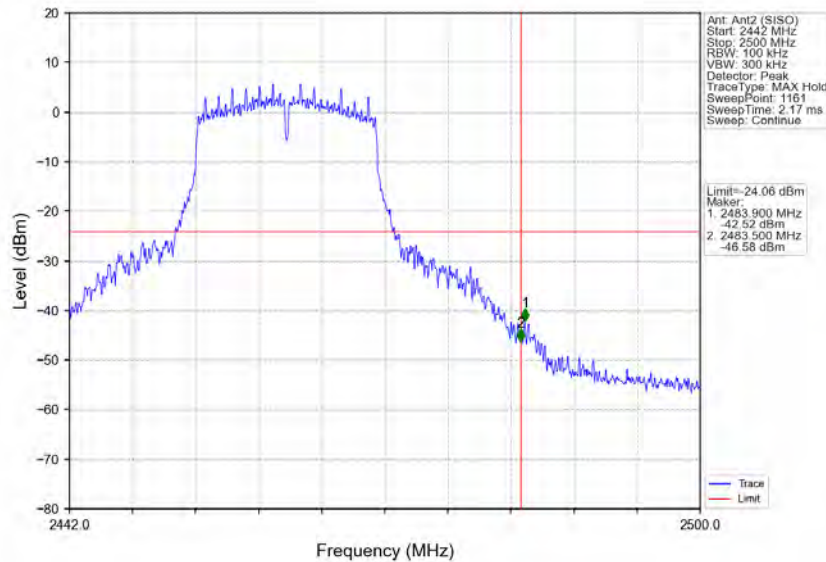
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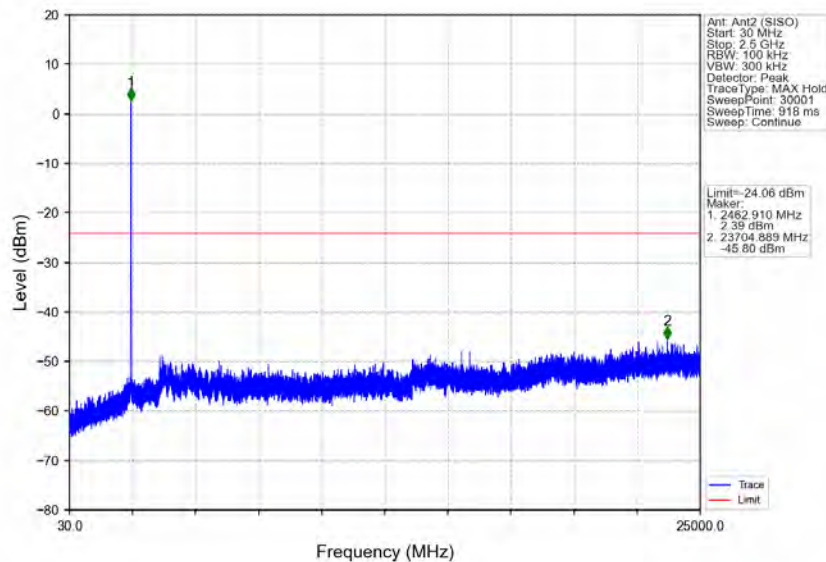
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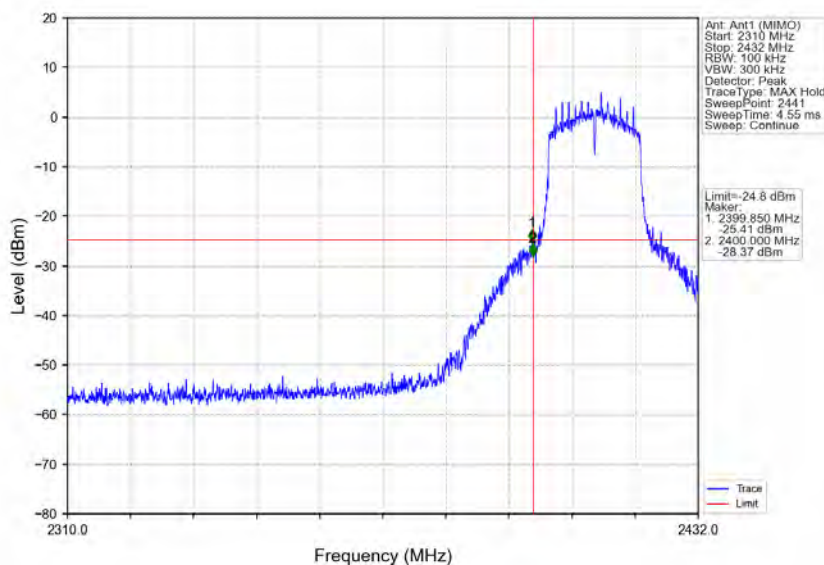
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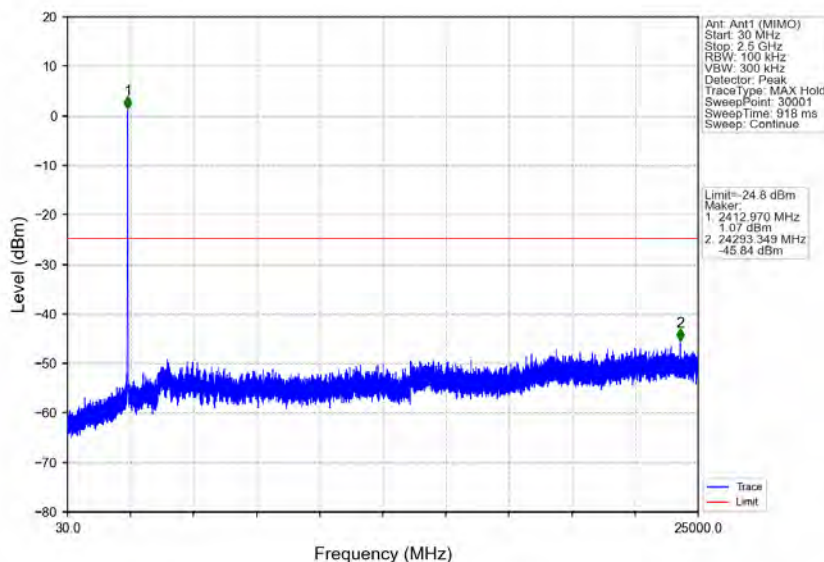
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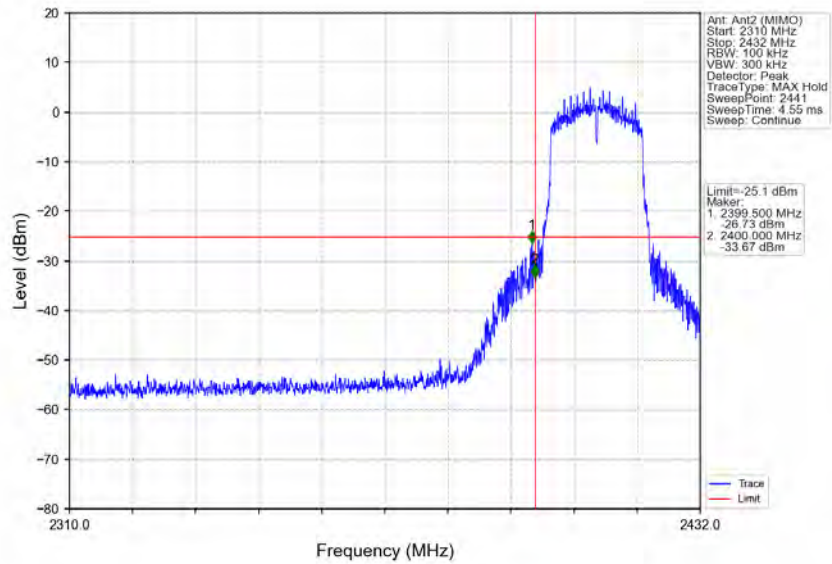
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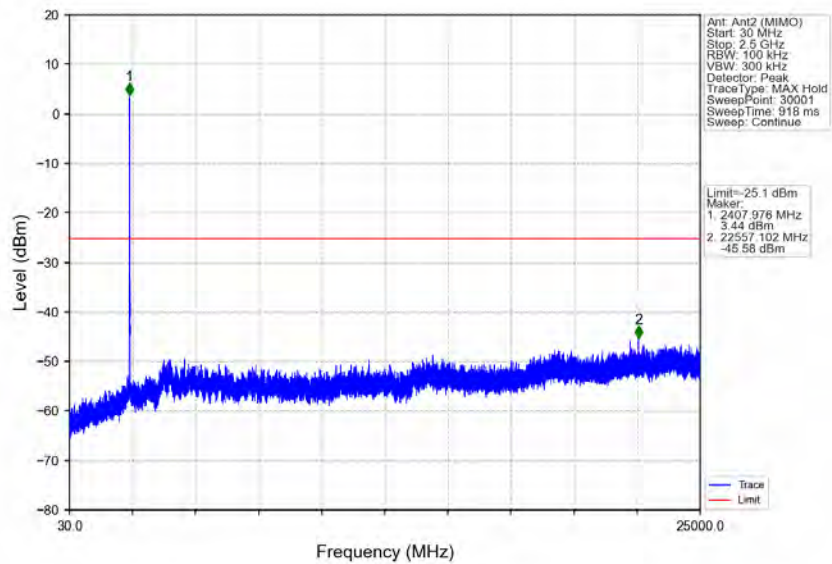
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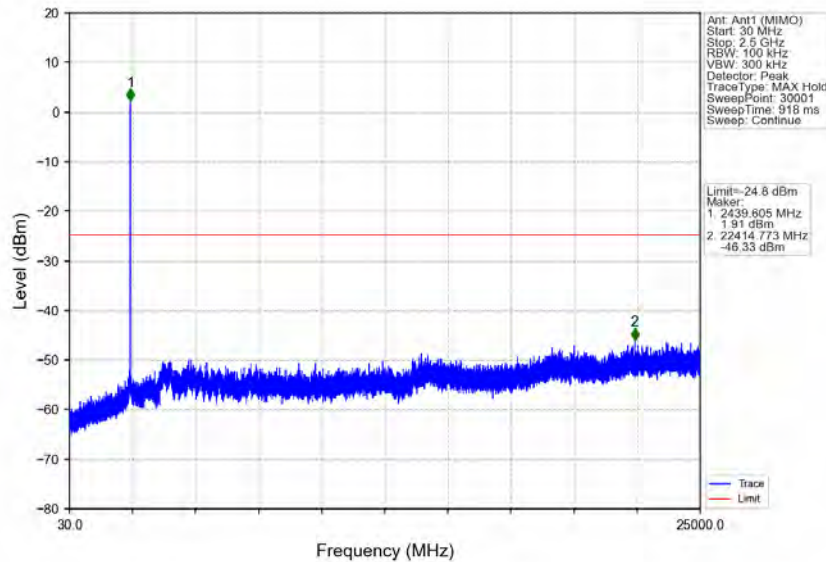
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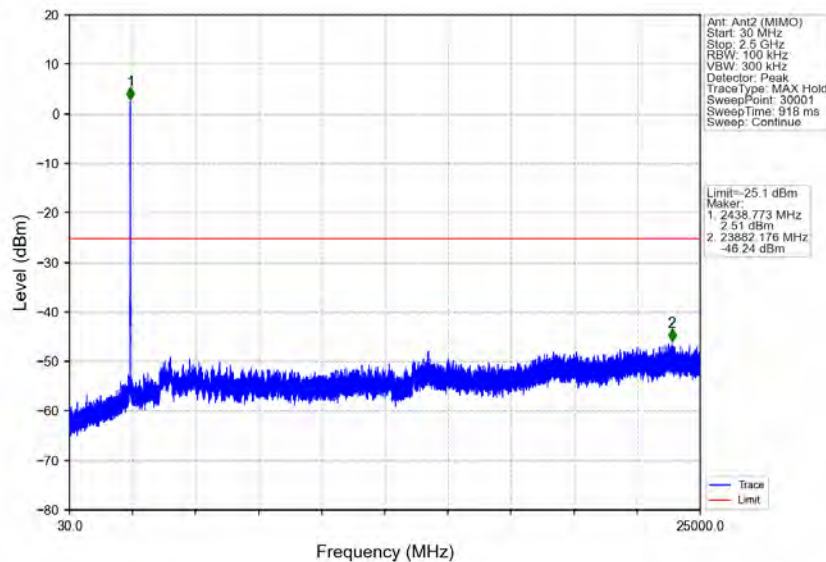
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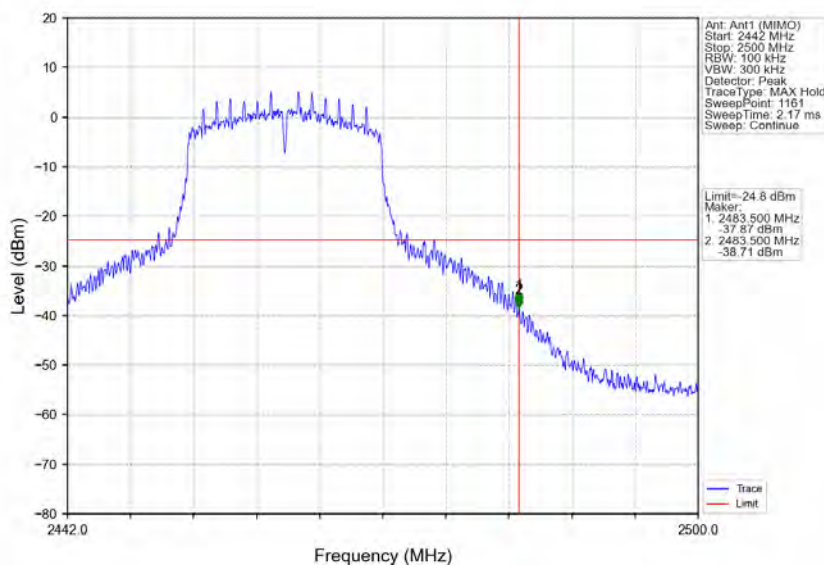
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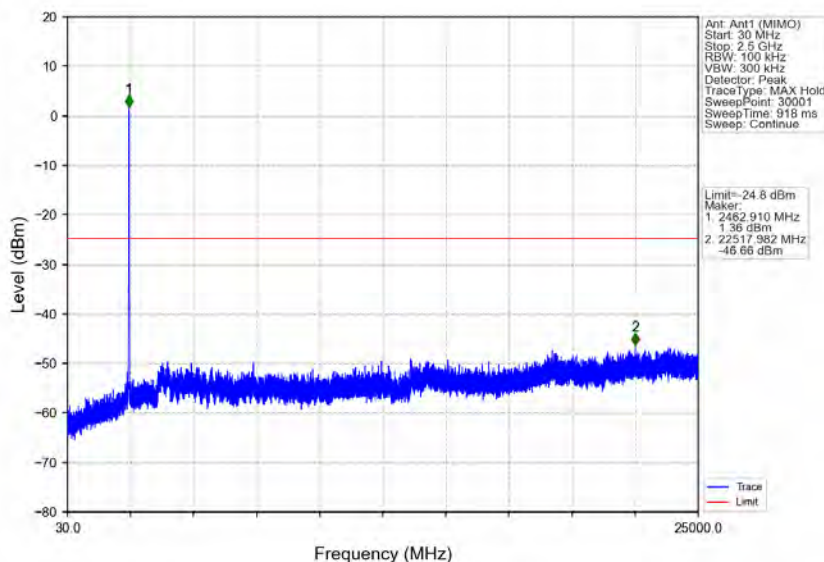
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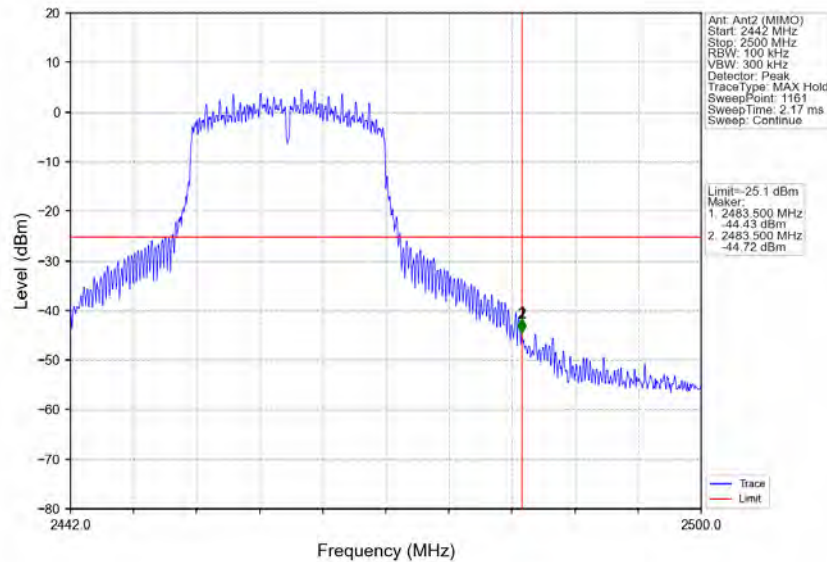
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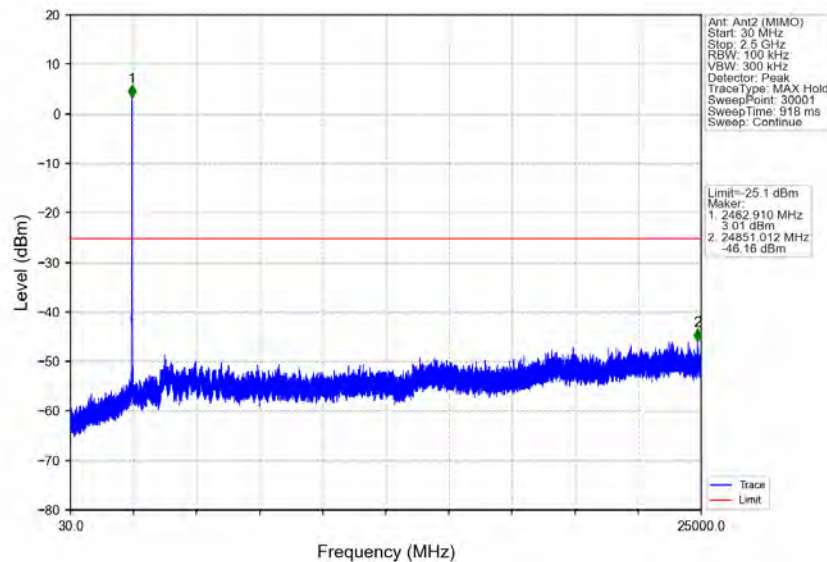
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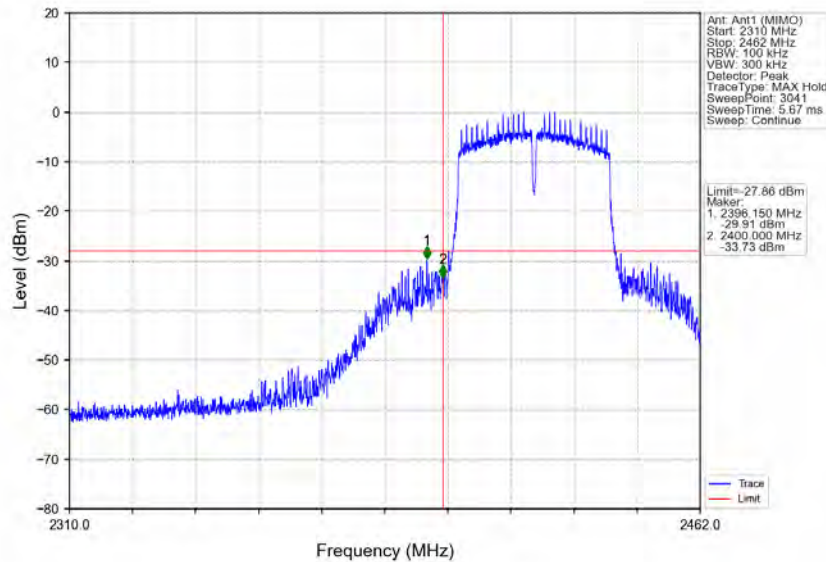
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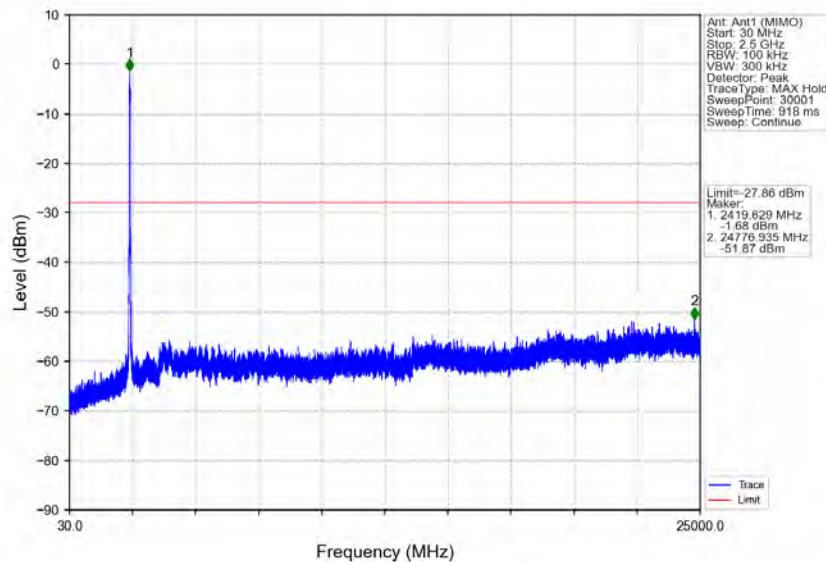
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



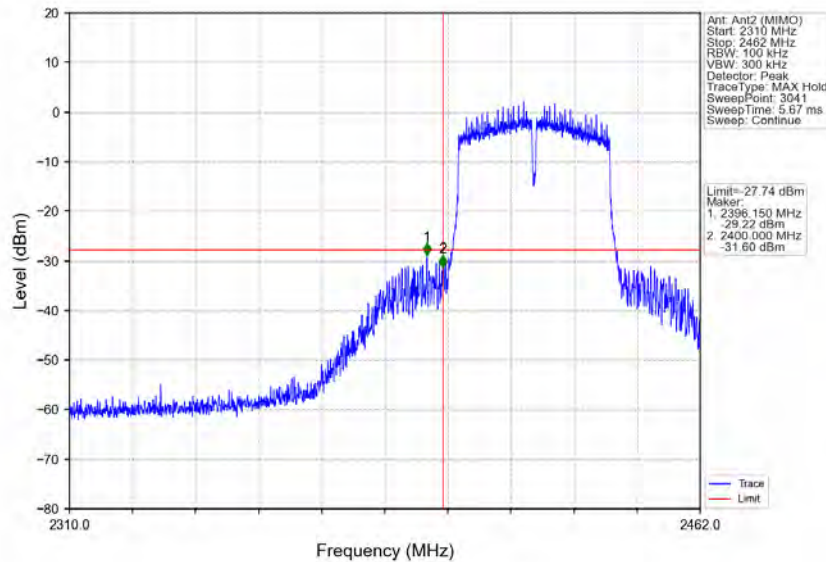
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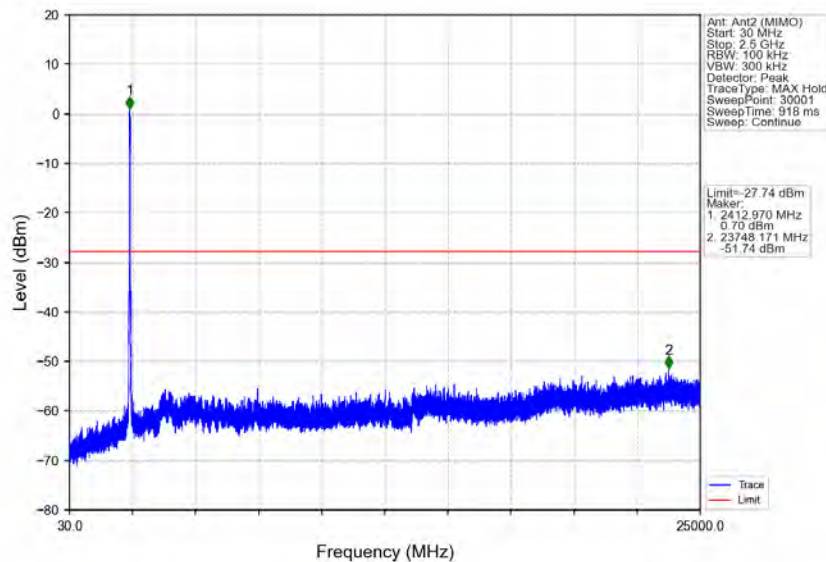
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802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



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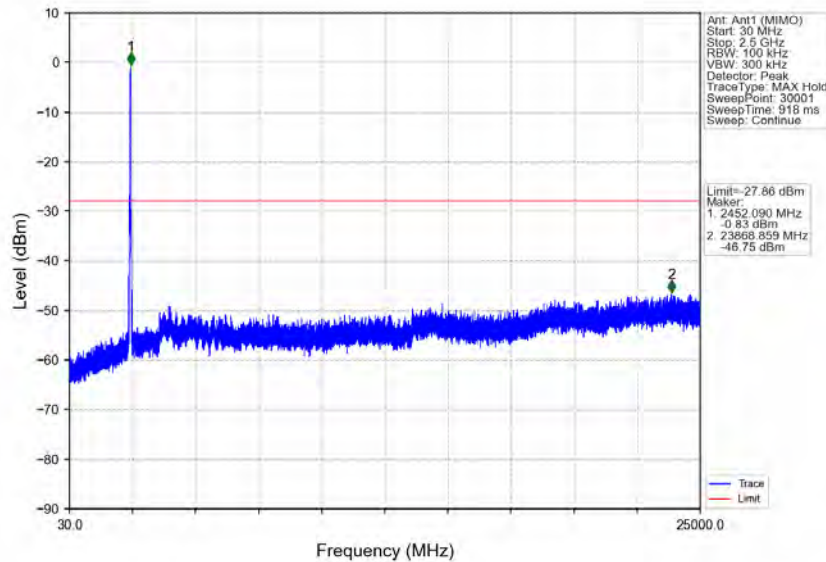
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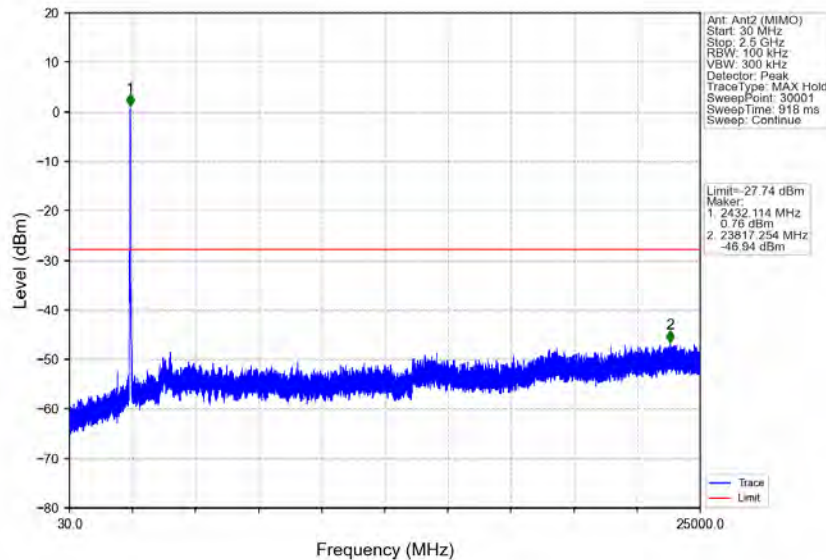
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802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTNV



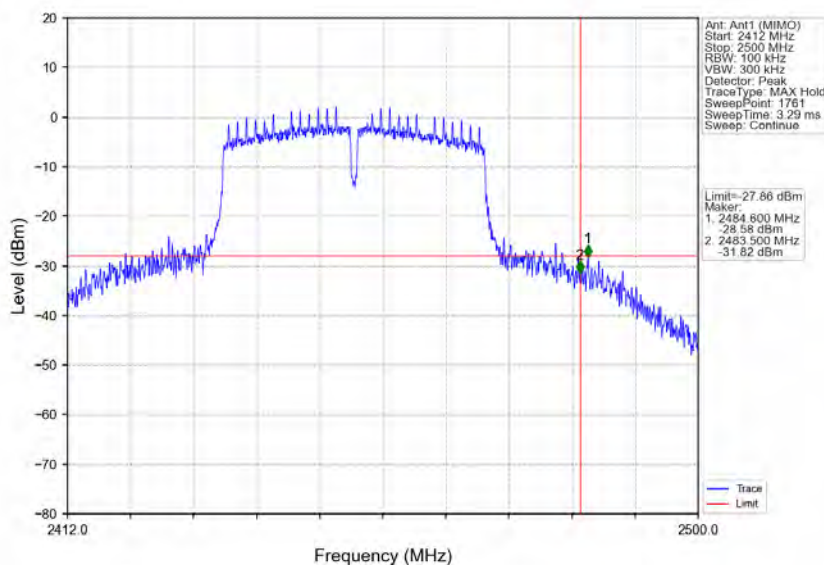
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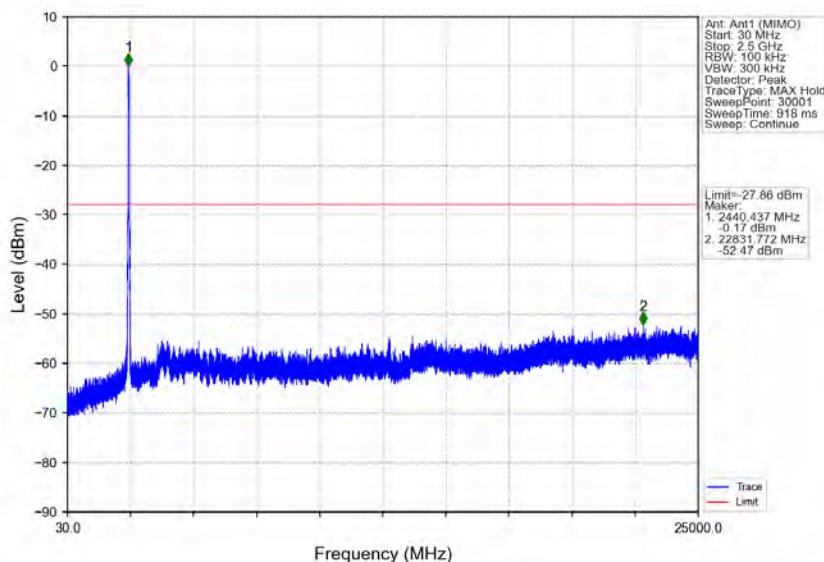
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



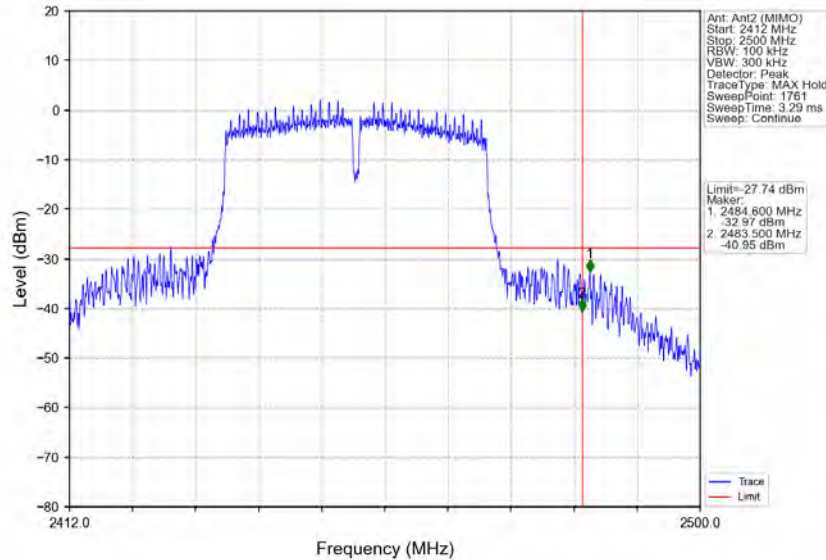
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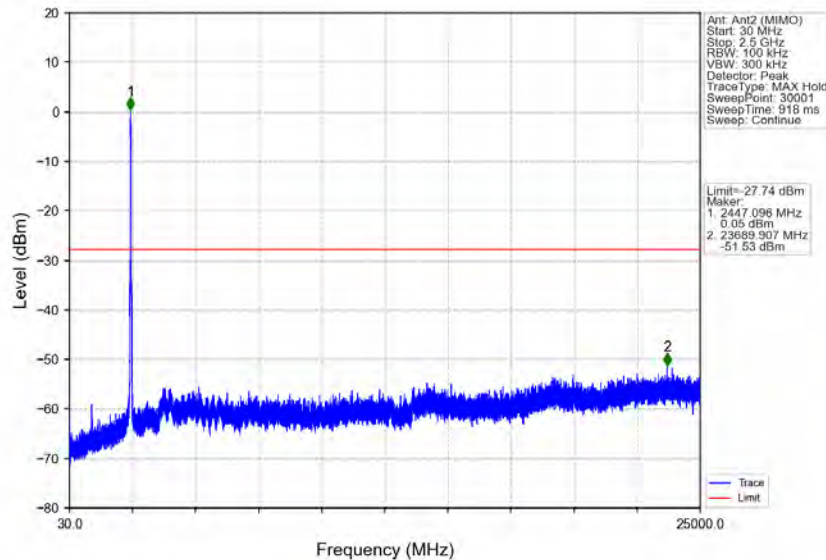
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- End of the Report -



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