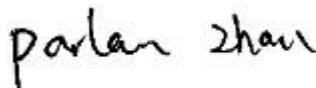


TEST REPORT

Application No.: SHCR2302000191CO
FCC ID: 2A826VCAMDRAIN
IC: 29670-DRAIN
Applicant: Vivax-Metrotech (Shanghai) Ltd.
Address of Applicant: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Manufacturer: Vivax-Metrotech (Shanghai) Ltd.
Address of Manufacturer: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Factory: Vivax-Metrotech (Shanghai) Ltd.
Address of Factory: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Equipment Under Test (EUT):
EUT Name: vCamDrain wireless Reel
Model No.: vCamDrain
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5, February 2021 Amendment 2
Date of Receipt: 2023-02-02
Date of Test: 2023-02-04 to 2023-02-25
Date of Issue: 2023-03-06

| | |
|---------------------|-------|
| Test Result: | Pass* |
|---------------------|-------|

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



Parlam Zhan
Laboratory Manager



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
EEC EMC Lab

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| Revision Record | | | |
|-----------------|-------------|------------|--------|
| Version | Description | Date | Remark |
| 00 | Original | 2023-03-06 | / |
| | | | |
| | | | |

| | | | |
|--------------------------|---|--|--|
| Authorized for issue by: | | | |
| |  | | |
| | <hr/> Bill Wu/Project Engineer | | |
| |  | | |
| | <hr/> Parlam Zhan/Reviewer | | |

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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--|---|---------------------------|--------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.203 | RSS-Gen Clause 6.8 | N/A | Pass |
| Transmission in the Absence of Data | 47 CFR Part 15, Subpart C 15.407 (c) | RSS-247 Section 6.4(a) | N/A | Pass |

N/A: Not applicable

| Radio Spectrum Matter Part | | | | |
|---|--|---|-----------------------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| 99% Bandwidth | N/A | RSS-Gen Section 6.7 | KDB 789033 II D | Pass |
| 26dB Emission bandwidth | 47 CFR Part 15, Subpart C 15.407 (a) | RSS-247 Section 6.2.1(1) | KDB 789033 D02 II C 1 | Pass |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band) | 47 CFR Part 15, Subpart C 15.407 (e) | RSS-247 Section 6.2.4 | KDB 789033 D02 II C 2 | Pass |
| Maximum Conducted output power | 47 CFR Part 15, Subpart C 15.407 (a) | RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4 | KDB 789033 D02 II E | Pass |
| Peak Power spectrum density | 47 CFR Part 15, Subpart C 15.407 (a) | RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4 | KDB 789033 D02 II F | Pass |
| Radiated Emissions | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | KDB 789033 D02 II G | Pass |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.209 & 15.407(b) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | KDB 789033 D02 II G | Pass |

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4 General Information

4.1 Details of E.U.T.

| | |
|---|---|
| Power supply: | DC 7.2V 13Ah Rechargeable battery |
| Test Voltage: | DC 7.2V |
| Operation Frequency/Number of channels (20MHz): | U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels) |
| Operation Frequency/Number of channels/(40MHz): | U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels) |
| Operation Frequency/Number of channels (80MHz): | U-NII-1: 5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel) |
| Modulation Type: | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |
| Channel Spacing: | 802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz |
| TPC Function: | Without TPC function |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 3dBi (Provided by manufacturer) |
| Date Rate: | 802.11a:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7 802.11ac:VHT MCS0-MCS7 |
| S/N: | 11301190022 |
| Firmware Version: | v1.20 |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Laptop | LENOVO | L460 | - |

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4.3 Power level setting using in test:

| Test Mode | 802.11a | 802.11n(HT20) | 802.11ac(VHT20) |
|-----------|-----------------|-----------------|-----------------|
| Channel | Ant 1 | Ant 1 | Ant 1 |
| 36 | 55 | 53 | 52 |
| 40 | 55 | 53 | 52 |
| 48 | 55 | 53 | 52 |
| 149 | 48 | 46 | 45 |
| 157 | 48 | 46 | 45 |
| 165 | 48 | 46 | 45 |
| Test Mode | 802.11n(HT40) | 802.11ac(VHT40) | |
| Channel | Ant 1 | Ant 1 | |
| 38 | 55 | 53 | |
| 46 | 55 | 53 | |
| 151 | 48 | 47 | |
| 159 | 48 | 47 | |
| Test Mode | 802.11ac(VHT80) | | |
| Channel | Ant 1 | | |
| 42 | 53 | | |
| 155 | 50 | | |

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4.4 Measurement Uncertainty & Decision Rule

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 3 | Duty cycle | 0.4% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF conducted power | 0.6dB |
| 6 | RF power density | 2.9dB |
| 7 | Conducted Spurious emissions | 0.75dB |
| 8 | 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-6GHz) |
| | | 5.4dB (6GHz-18GHz) |
| 10 | Temperature test | 1°C |
| 11 | Humidity test | 3% |
| 12 | Supply voltages | 1.5% |
| 13 | Time | 3% |

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

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

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

No tests were sub-contracted.

Note:

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

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4.6 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

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

- **FCC (Designation Number: CN1301)**

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

- **ISED (CAB Identifier: CN0020)**

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

- **VCCI (Member No.: 3061)**

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------|--------------|----------------------------|--------------------|------------|--------------|
| RF Conducted Test | | | | | |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2022-12-20 | 2023-12-19 |
| Spectrum Analyzer | Keysight | N9020B | SHEM241-1 | 2022-12-20 | 2023-12-19 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2022-08-02 | 2023-08-01 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2022-07-25 | 2023-07-24 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2022-07-25 | 2023-07-24 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | / |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2022-11-08 | 2024-11-07 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2022-12-20 | 2023-12-19 |
| DC Power Supply | MCH | MCH-303A | SHEM210-1 | 2022-12-20 | 2023-12-19 |
| Conducted test Cable | / | RF01~RF04 | / | 2022-12-20 | 2023-12-19 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Test software | Tonscend | JS Tonscend BT/WIFI System | Version: 2.6 | / | / |
| Coaxial Cable | TST | | SHEM263-1 | 2022-08-02 | 2023-08-01 |
| Test software | TST | TST PASS | Version: 2.0 | / | / |
| RF Radiated Test | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2022-12-20 | 2023-12-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2022-12-20 | 2023-12-19 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2022-07-25 | 2023-07-24 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2022-12-20 | 2023-12-19 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2021-09-11 | 2023-09-10 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2021-05-07 | 2023-05-06 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2022/8/11 | 2024-08-10 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2021-09-18 | 2023-09-17 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2021-09-18 | 2023-09-17 |
| Pre-Amplifier | HP | 8447D | SHEM236-1 | 2022-08-02 | 2023-08-01 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2022-12-20 | 2023-12-19 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2020-05-25 | 2023-05-24 |
| RE test Cable | / | RE01, RE02, RE06 | / | 2023-01-07 | 2024-01-06 |
| Test software | ESE | E3 | Version: 6.111221a | / | / |

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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

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is PIFA antenna and no consideration of replacement. The best case gain of the antenna is 3 dBi.

Antenna location: Refer to internal photo.

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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

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7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
 Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C Humidity: 31.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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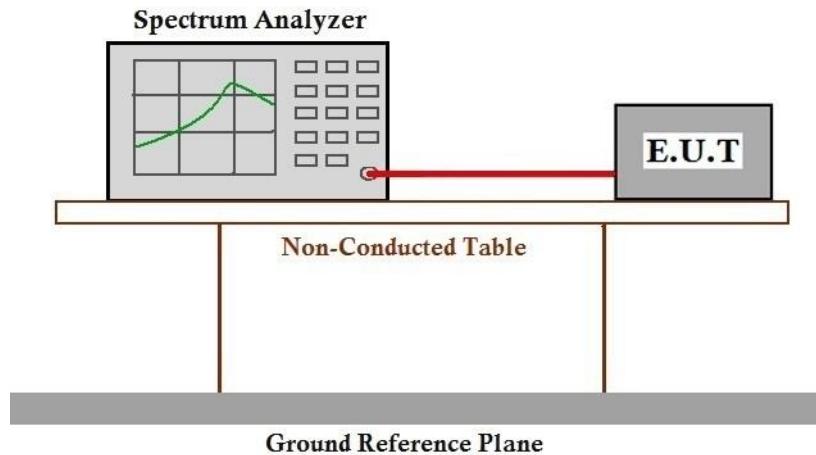
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.2 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 19.7 °C Humidity: 31.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

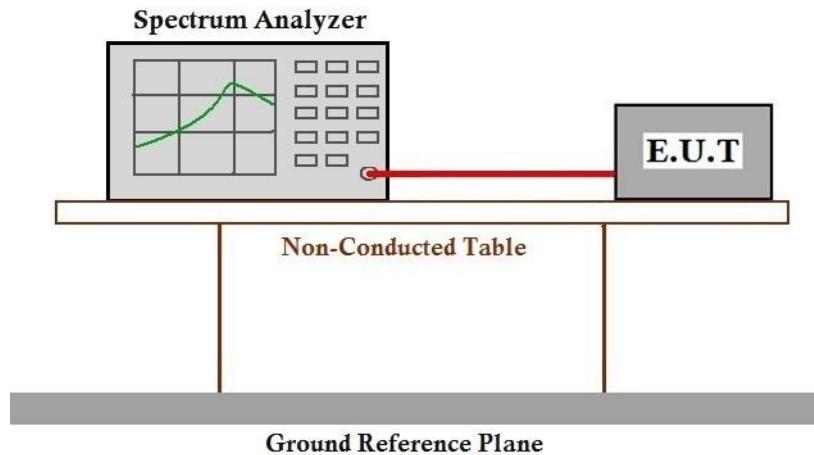
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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

Please Refer to Appendix for Details

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7.3 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C Humidity: 31.0 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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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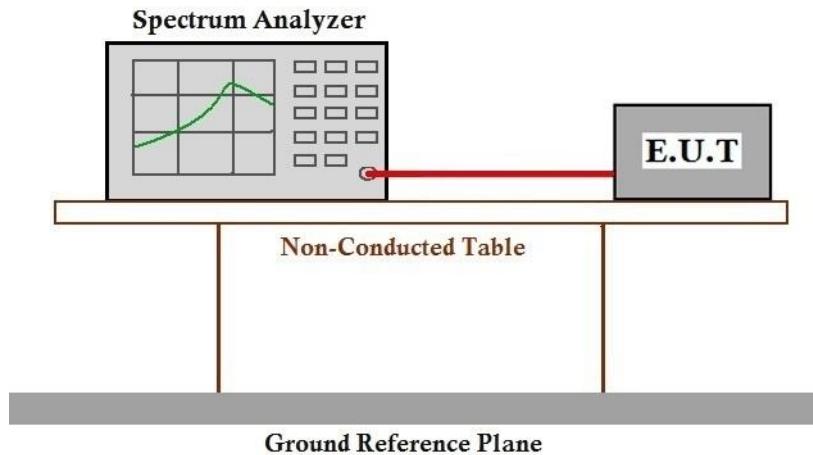


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

| Frequency band(MHz) | Limit |
|---------------------|----------|
| 5725-5850 | ≥500 kHz |

7.4.1 E.U.T. Operation

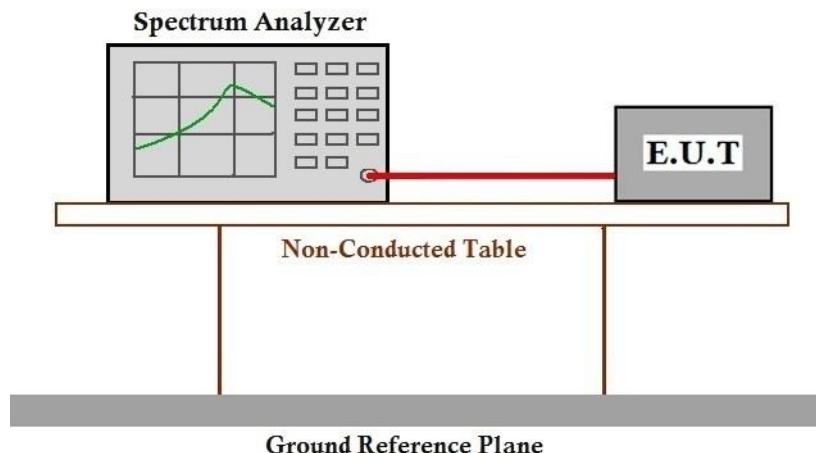
Operating Environment:

Temperature: 19.7 °C Humidity: 31.8 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

| Frequency band(MHz) | Limit |
|---------------------|--|
| 5150-5250 | ≤1W(30dBm) for master device |
| | ≤250mW(24dBm) for client device |
| 5250-5350 | ≤250mW(24dBm) for client device or 11dBm+10logB* |
| 5470-5725 | ≤250mW(24dBm) for client device or 11dBm+10logB* |
| 5725-5850 | ≤1W(30dBm) |
| Remark: | * Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. For IC 5150MHz to 5250MHz limit is EIRP≤200mW(23dBm) |

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C Humidity: 32.5 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80); |

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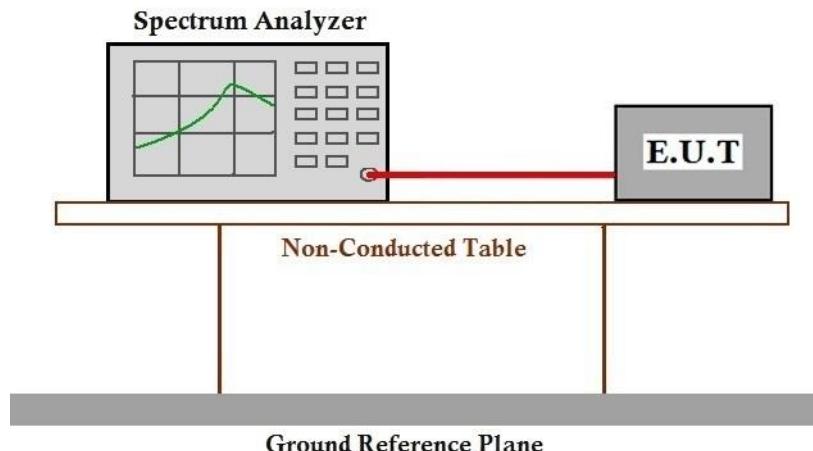
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802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

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7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

| Frequency band(MHz) | Limit |
|---------------------|---|
| 5150-5250 | ≤17dBm in 1MHz for master device |
| | ≤11dBm in 1MHz for client device |
| 5250-5350 | ≤11dBm in 1MHz for client device |
| 5470-5725 | ≤11dBm in 1MHz for client device |
| 5725-5850 | ≤30dBm in 500 kHz |
| Remark: | The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. For IC 5150MHz to 5250MHz limit is EIRP≤10dBm/MHz |

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 19.5 °C Humidity: 31.2 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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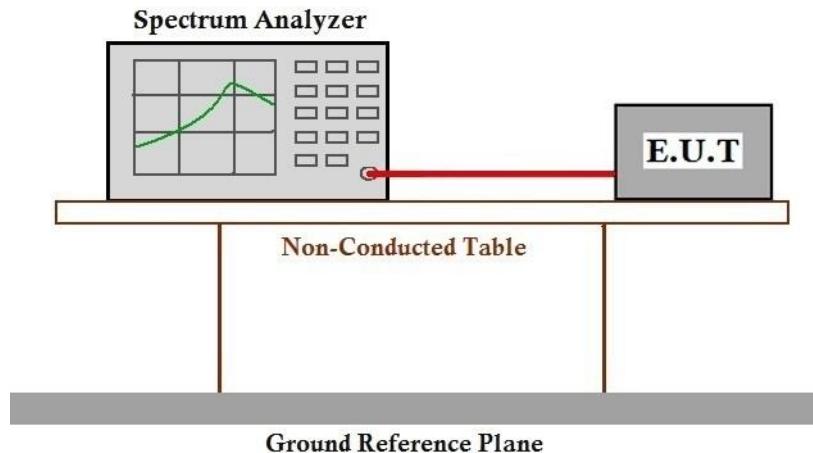
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7.6.3 Test Setup Diagram**7.6.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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7.7 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1GHz | 500 | 3 |

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 19.8 °C Humidity: 32.5 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data |

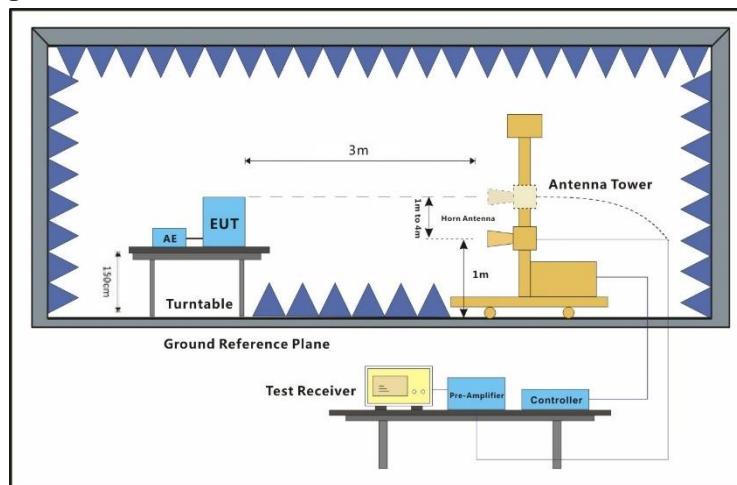
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| | | |
|------------|----|--|
| | | rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.7.3 Test Setup Diagram



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7.7.4 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 18GHz to 40GHz, 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. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

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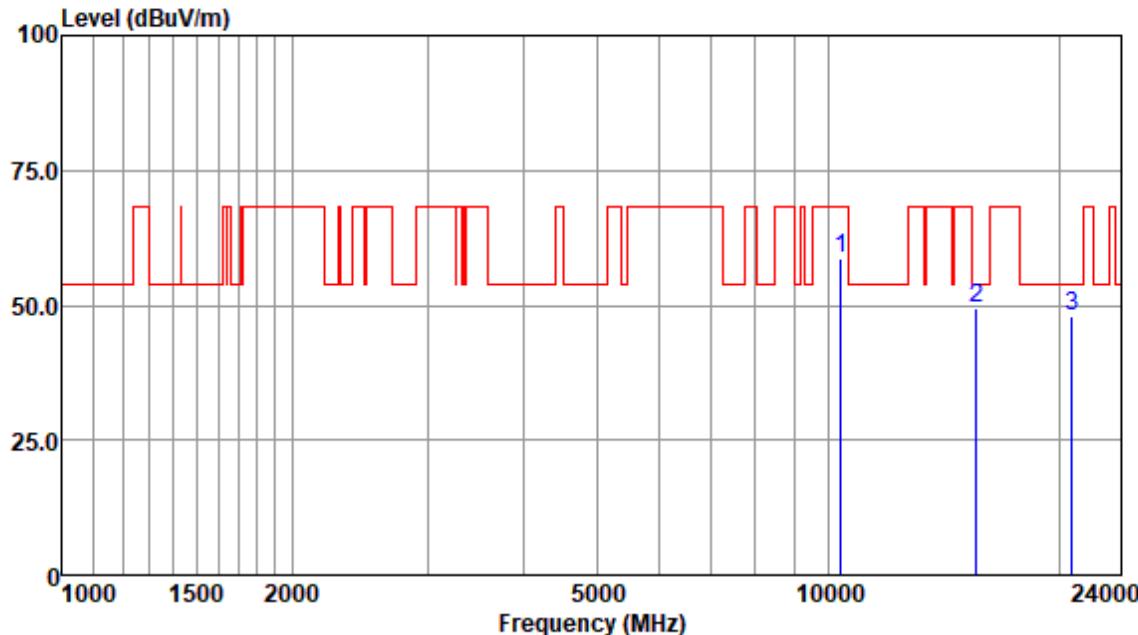


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10360.00 | 51.57 | 34.93 | 6.53 | 34.40 | 58.63 | 68.20 | -9.57 | Peak |
| 15540.00 | 38.88 | 37.43 | 9.99 | 36.78 | 49.52 | 54.00 | -4.48 | Peak |
| 20720.00 | 28.85 | 43.41 | 11.90 | 36.05 | 48.11 | 54.00 | -5.89 | Peak |

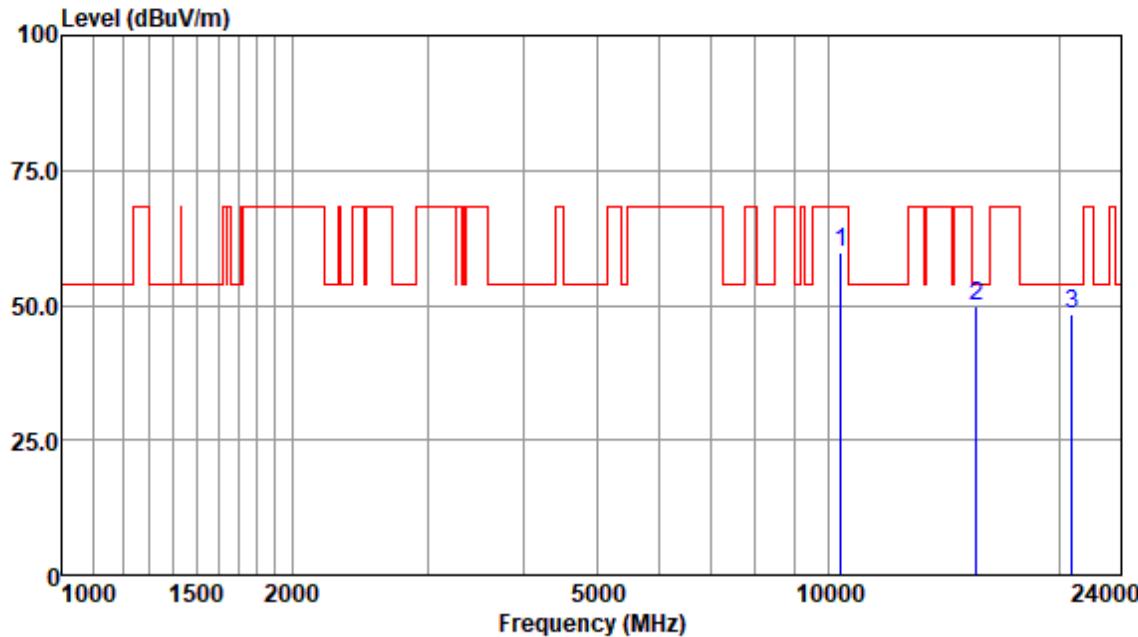
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 10360.00 | 52.58 | 34.93 | 6.53 | 34.40 | 59.64 | 68.20 | -8.56 | Peak |
| 15540.00 | 39.08 | 37.43 | 9.99 | 36.78 | 49.72 | 54.00 | -4.28 | Peak |
| 20720.00 | 28.99 | 43.41 | 11.90 | 36.05 | 48.25 | 54.00 | -5.75 | Peak |

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

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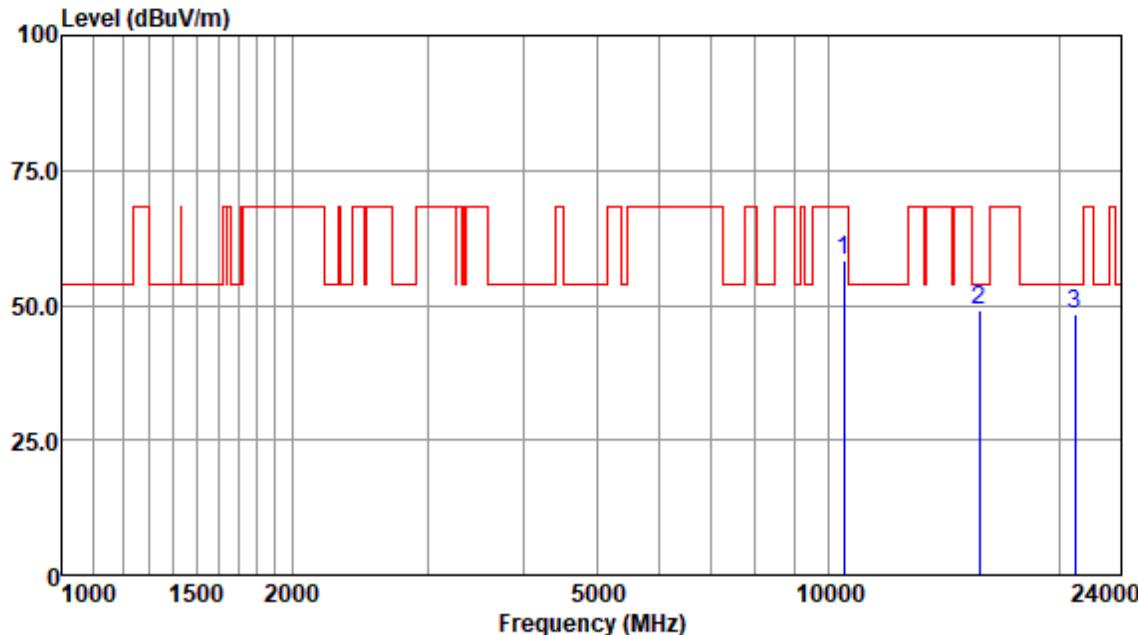
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 10440.00 | 51.14 | 34.92 | 6.56 | 34.46 | 58.16 | 68.20 | -10.04 | Peak |
| 15660.00 | 37.99 | 37.51 | 10.11 | 36.63 | 48.98 | 54.00 | -5.02 | Peak |
| 20880.00 | 29.01 | 43.48 | 11.97 | 36.05 | 48.41 | 54.00 | -5.59 | Peak |

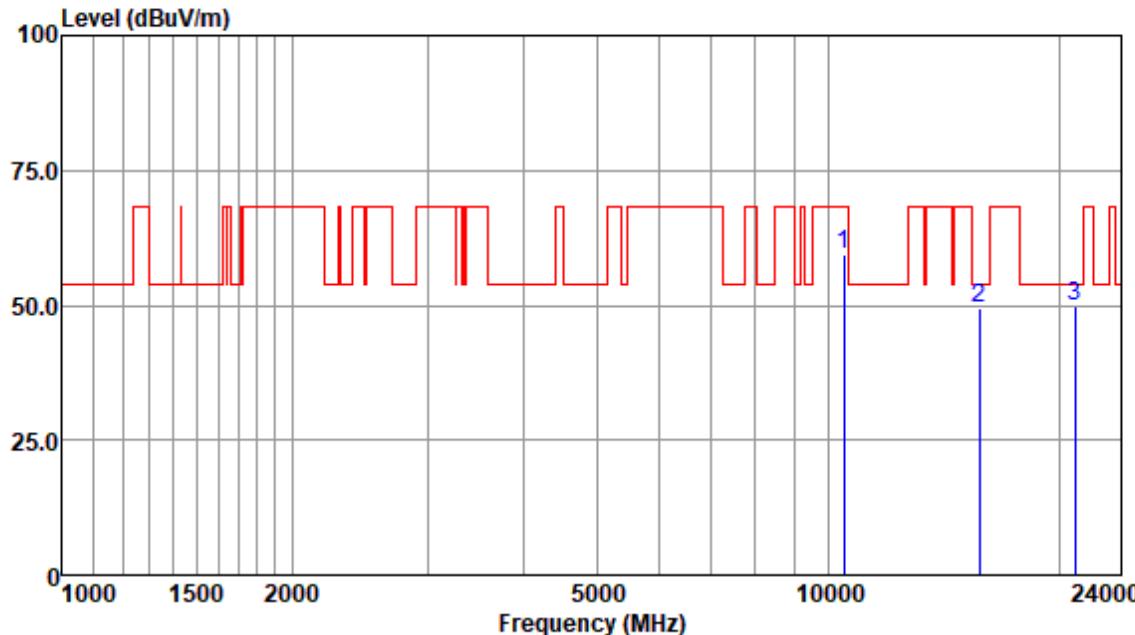
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10440.00 | 52.23 | 34.92 | 6.56 | 34.46 | 59.25 | 68.20 | -8.95 | Peak |
| 15660.00 | 38.55 | 37.51 | 10.11 | 36.63 | 49.54 | 54.00 | -4.46 | Peak |
| 20880.00 | 30.34 | 43.48 | 11.97 | 36.05 | 49.74 | 54.00 | -4.26 | Peak |

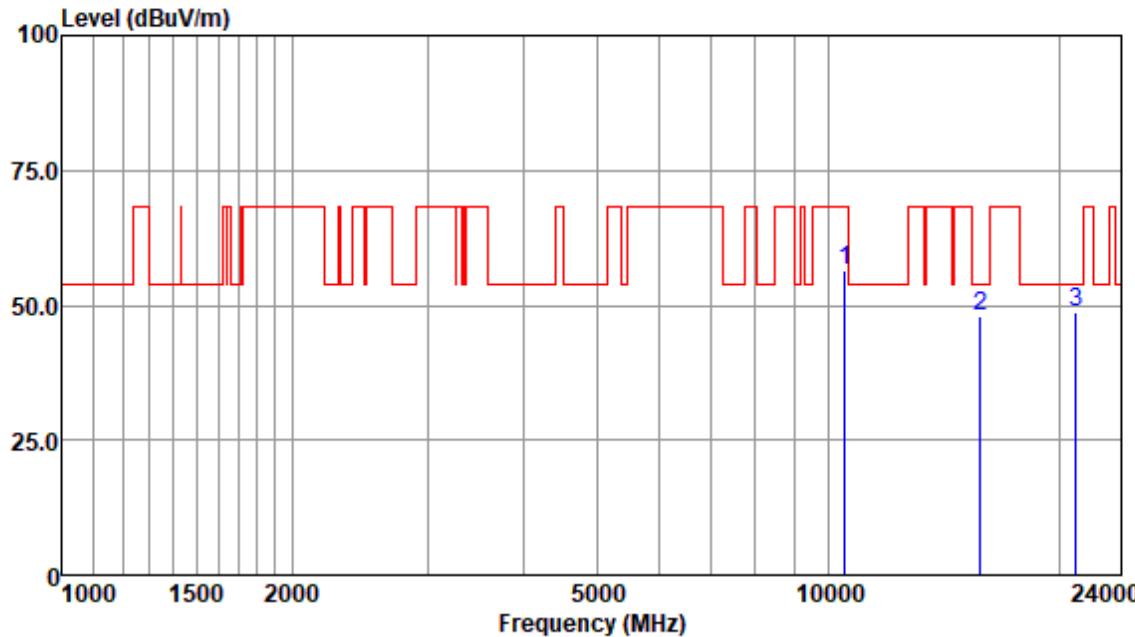
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10480.00 | 49.36 | 34.95 | 6.58 | 34.48 | 56.41 | 68.20 | -11.79 | Peak |
| 15720.00 | 37.27 | 37.54 | 9.80 | 36.58 | 48.03 | 54.00 | -5.97 | Peak |
| 20960.00 | 29.09 | 43.52 | 12.00 | 36.06 | 48.55 | 54.00 | -5.45 | Peak |

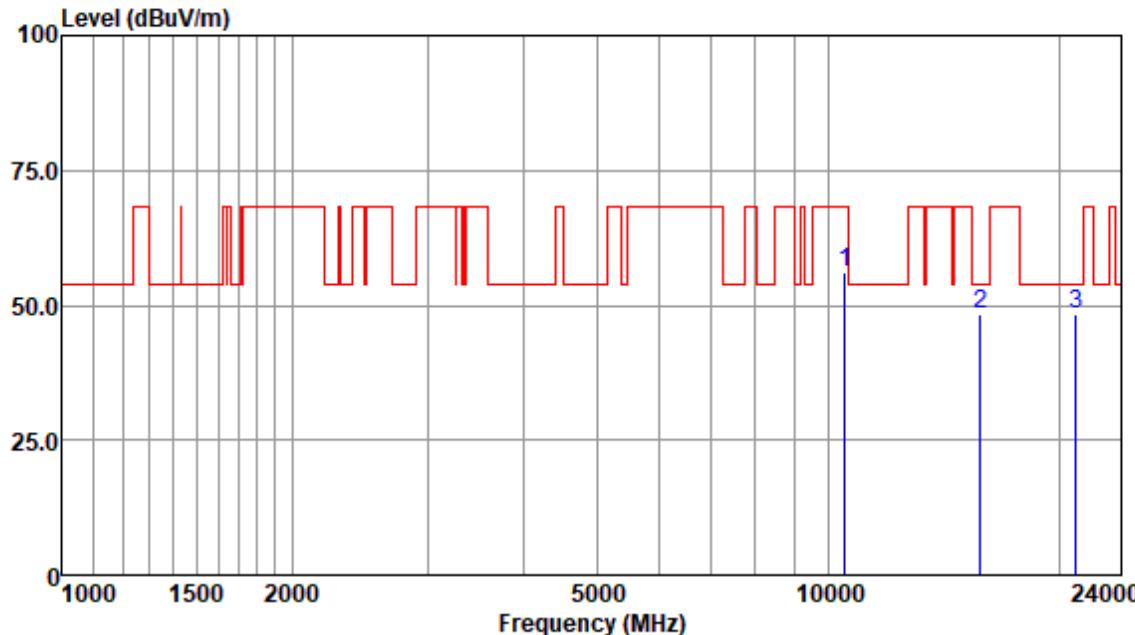
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10480.00 | 48.88 | 34.95 | 6.58 | 34.48 | 55.93 | 68.20 | -12.27 | Peak |
| 15720.00 | 37.49 | 37.54 | 9.80 | 36.58 | 48.25 | 54.00 | -5.75 | Peak |
| 20960.00 | 28.87 | 43.52 | 12.00 | 36.06 | 48.33 | 54.00 | -5.67 | Peak |

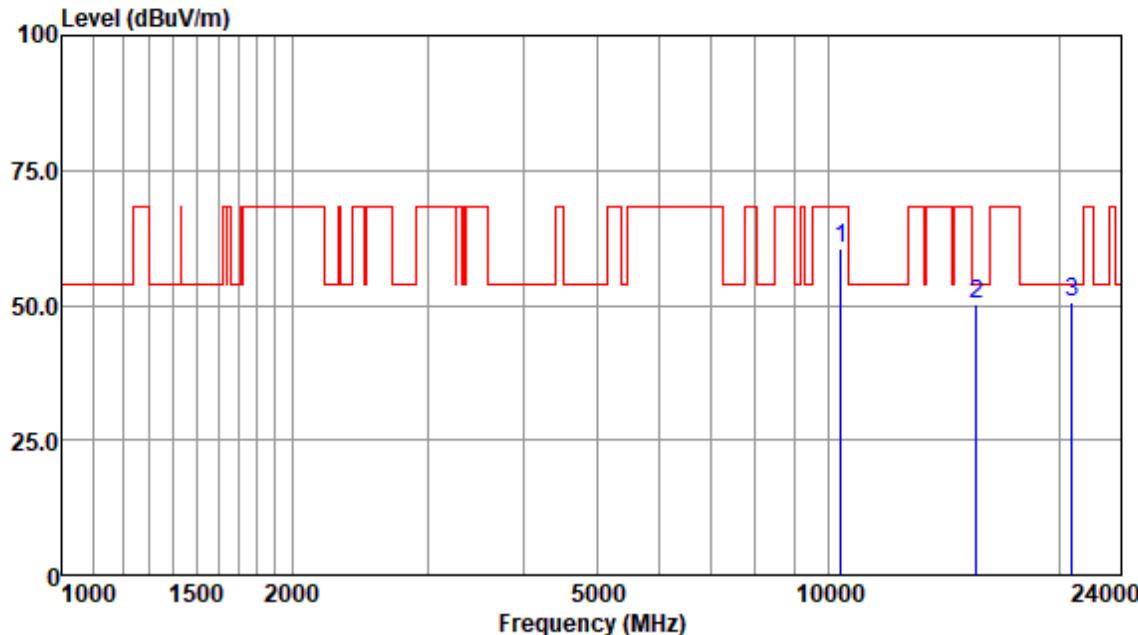
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10360.00 | 53.32 | 34.93 | 6.53 | 34.40 | 60.38 | 68.20 | -7.82 | Peak |
| 15540.00 | 39.63 | 37.43 | 9.99 | 36.78 | 50.27 | 54.00 | -3.73 | Peak |
| 20720.00 | 31.42 | 43.41 | 11.90 | 36.05 | 50.68 | 54.00 | -3.32 | Peak |

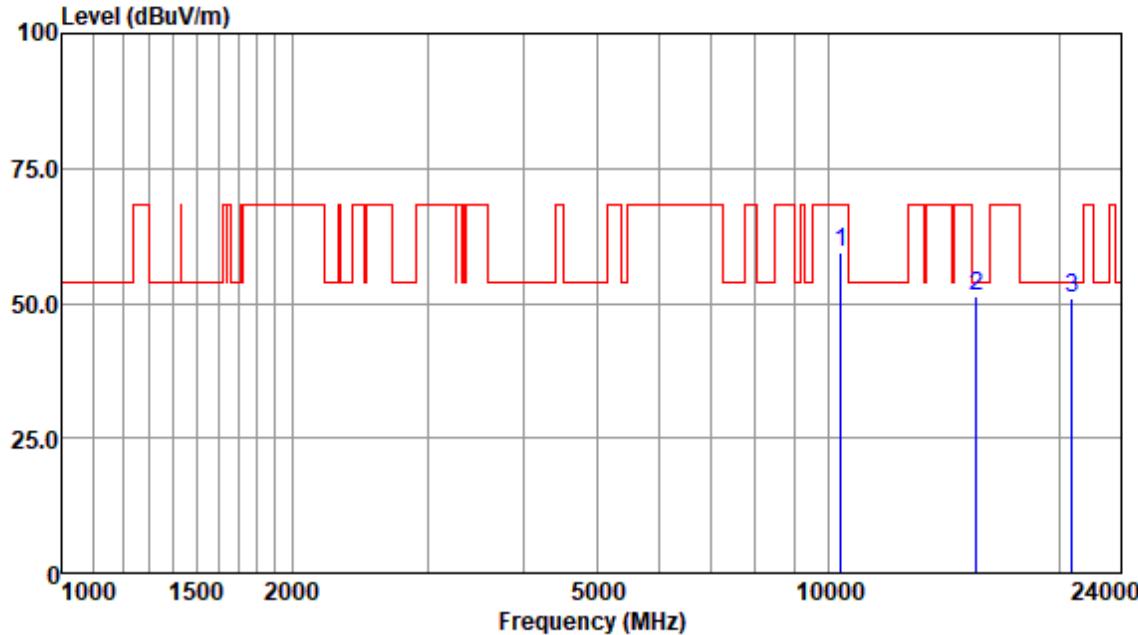
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10360.00 | 52.49 | 34.93 | 6.53 | 34.40 | 59.55 | 68.20 | -8.65 | Peak |
| 15540.00 | 40.60 | 37.43 | 9.99 | 36.78 | 51.24 | 54.00 | -2.76 | Peak |
| 20720.00 | 31.67 | 43.41 | 11.90 | 36.05 | 50.93 | 54.00 | -3.07 | Peak |

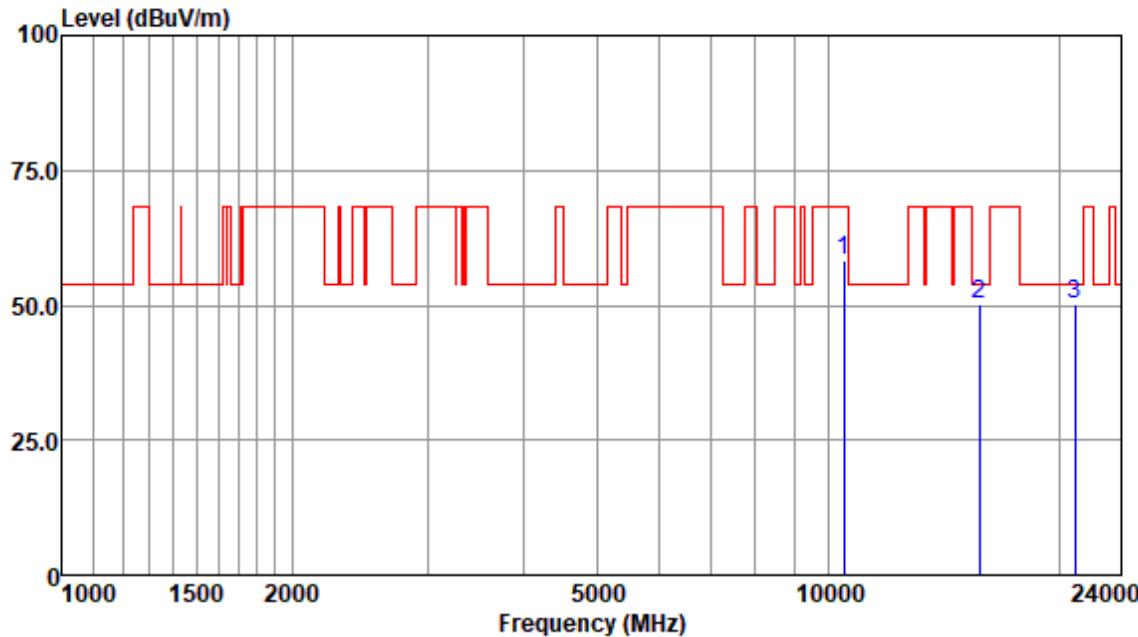
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10440.00 | 51.13 | 34.92 | 6.56 | 34.46 | 58.15 | 68.20 | -10.05 | Peak |
| 15660.00 | 39.29 | 37.51 | 10.11 | 36.63 | 50.28 | 54.00 | -3.72 | Peak |
| 20880.00 | 30.88 | 43.48 | 11.97 | 36.05 | 50.28 | 54.00 | -3.72 | Peak |

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

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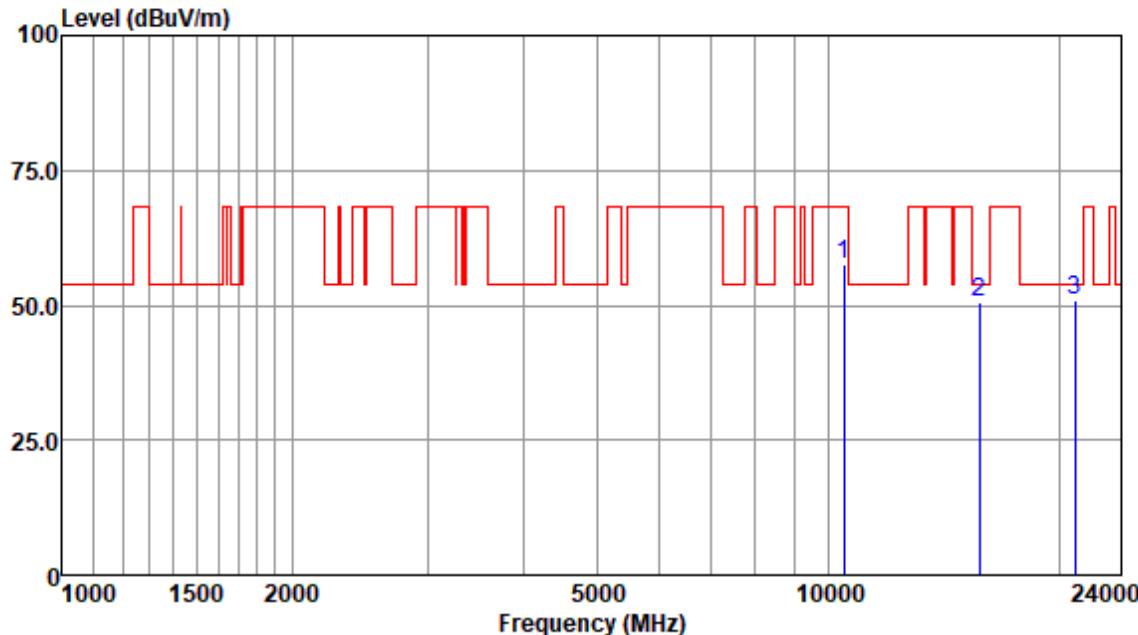
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 10440.00 | 50.57 | 34.92 | 6.56 | 34.46 | 57.59 | 68.20 | -10.61 | Peak |
| 15660.00 | 39.58 | 37.51 | 10.11 | 36.63 | 50.57 | 54.00 | -3.43 | Peak |
| 20880.00 | 31.49 | 43.48 | 11.97 | 36.05 | 50.89 | 54.00 | -3.11 | Peak |

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

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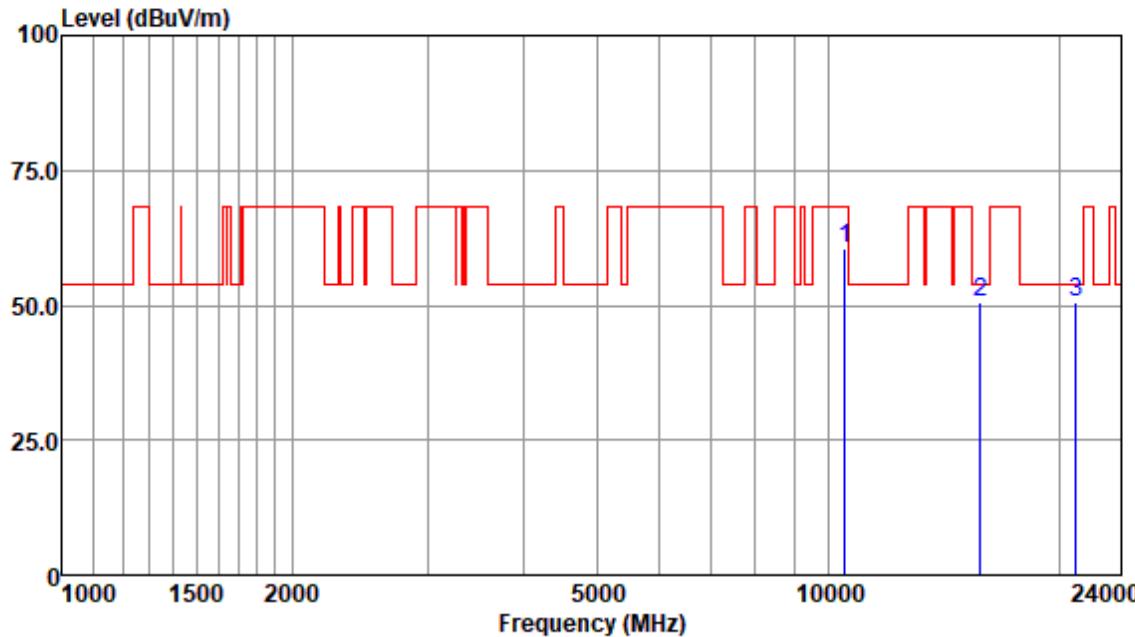
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10480.00 | 53.34 | 34.95 | 6.58 | 34.48 | 60.39 | 68.20 | -7.81 | Peak |
| 15720.00 | 39.68 | 37.54 | 9.80 | 36.58 | 50.44 | 54.00 | -3.56 | Peak |
| 20960.00 | 31.22 | 43.52 | 12.00 | 36.06 | 50.68 | 54.00 | -3.32 | Peak |

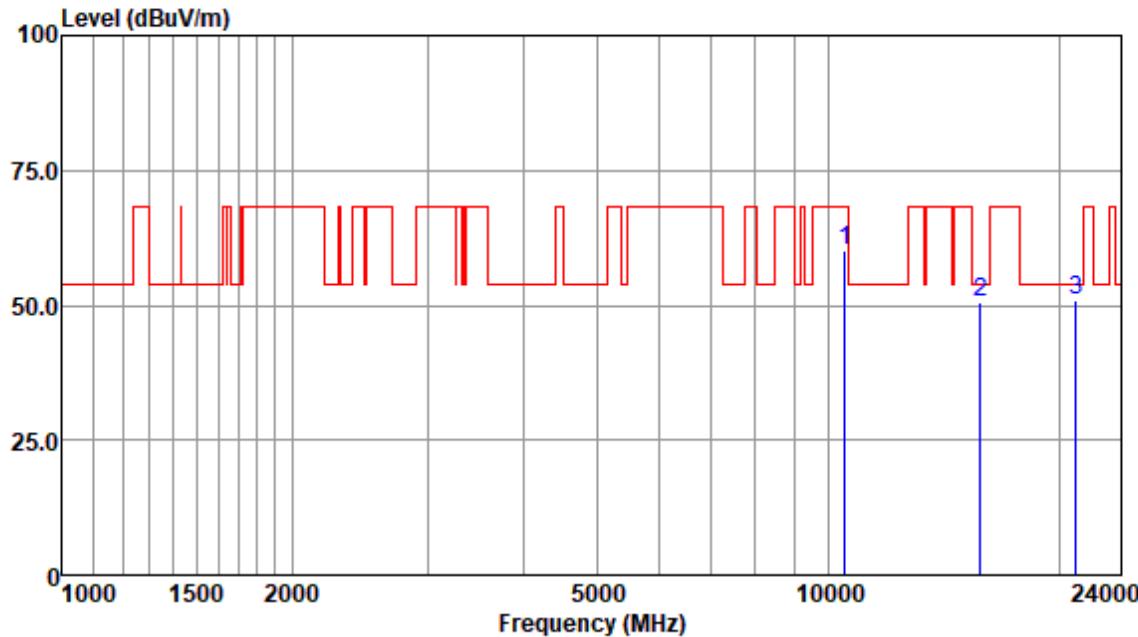
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10480.00 | 53.02 | 34.95 | 6.58 | 34.48 | 60.07 | 68.20 | -8.13 | Peak |
| 15720.00 | 39.79 | 37.54 | 9.80 | 36.58 | 50.55 | 54.00 | -3.45 | Peak |
| 20960.00 | 31.28 | 43.52 | 12.00 | 36.06 | 50.74 | 54.00 | -3.26 | Peak |

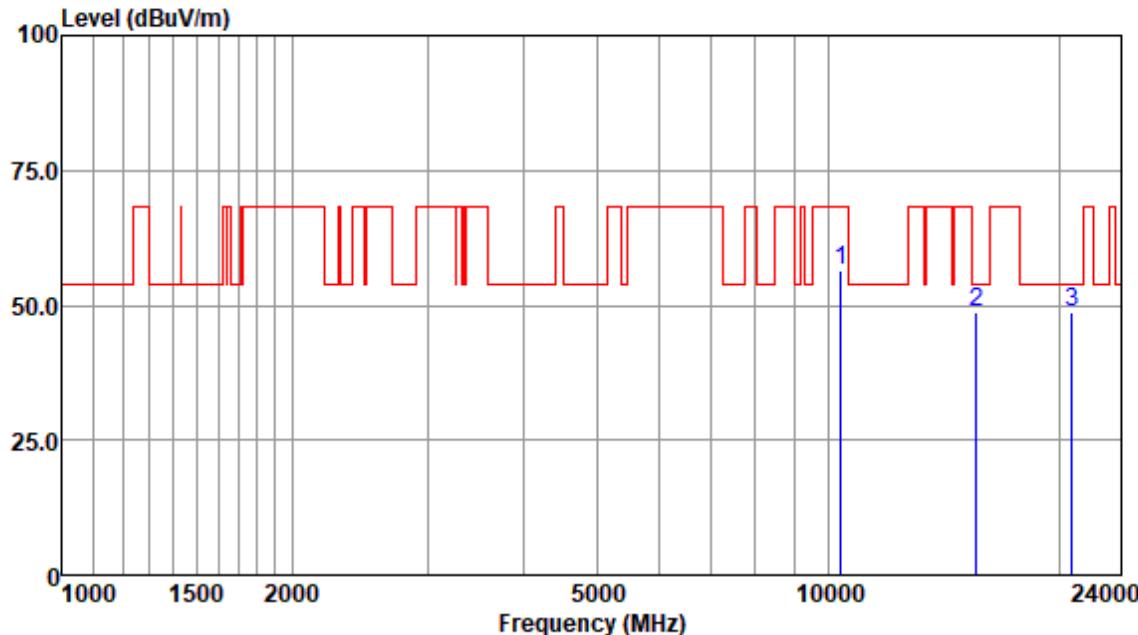
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10360.00 | 49.30 | 34.93 | 6.53 | 34.40 | 56.36 | 68.20 | -11.84 | Peak |
| 15540.00 | 37.95 | 37.43 | 9.99 | 36.78 | 48.59 | 54.00 | -5.41 | Peak |
| 20720.00 | 29.59 | 43.41 | 11.90 | 36.05 | 48.85 | 54.00 | -5.15 | Peak |

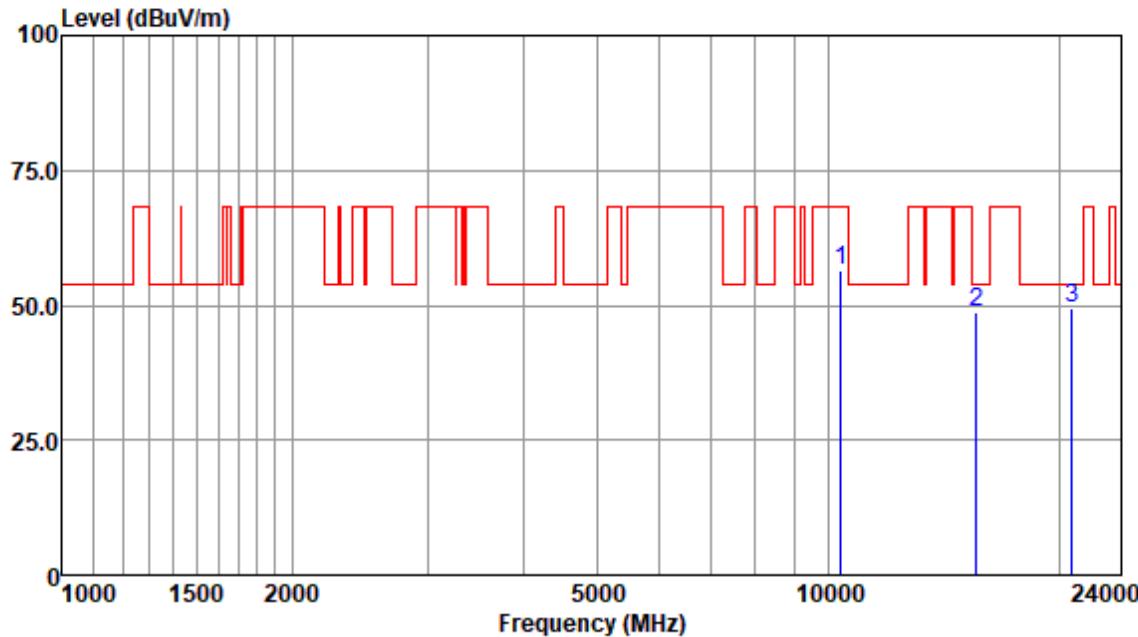
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10360.00 | 49.22 | 34.93 | 6.53 | 34.40 | 56.28 | 68.20 | -11.92 | Peak |
| 15540.00 | 37.93 | 37.43 | 9.99 | 36.78 | 48.57 | 54.00 | -5.43 | Peak |
| 20720.00 | 30.10 | 43.41 | 11.90 | 36.05 | 49.36 | 54.00 | -4.64 | Peak |

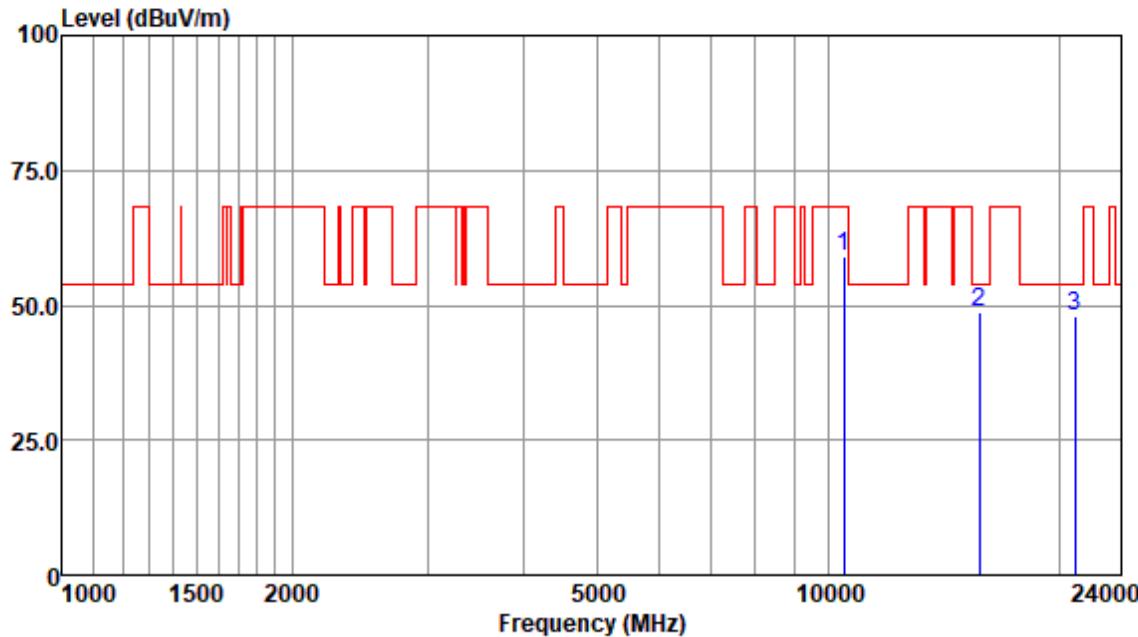
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10440.00 | 52.13 | 34.92 | 6.56 | 34.46 | 59.15 | 68.20 | -9.05 | Peak |
| 15660.00 | 37.75 | 37.51 | 10.11 | 36.63 | 48.74 | 54.00 | -5.26 | Peak |
| 20880.00 | 28.43 | 43.48 | 11.97 | 36.05 | 47.83 | 54.00 | -6.17 | Peak |

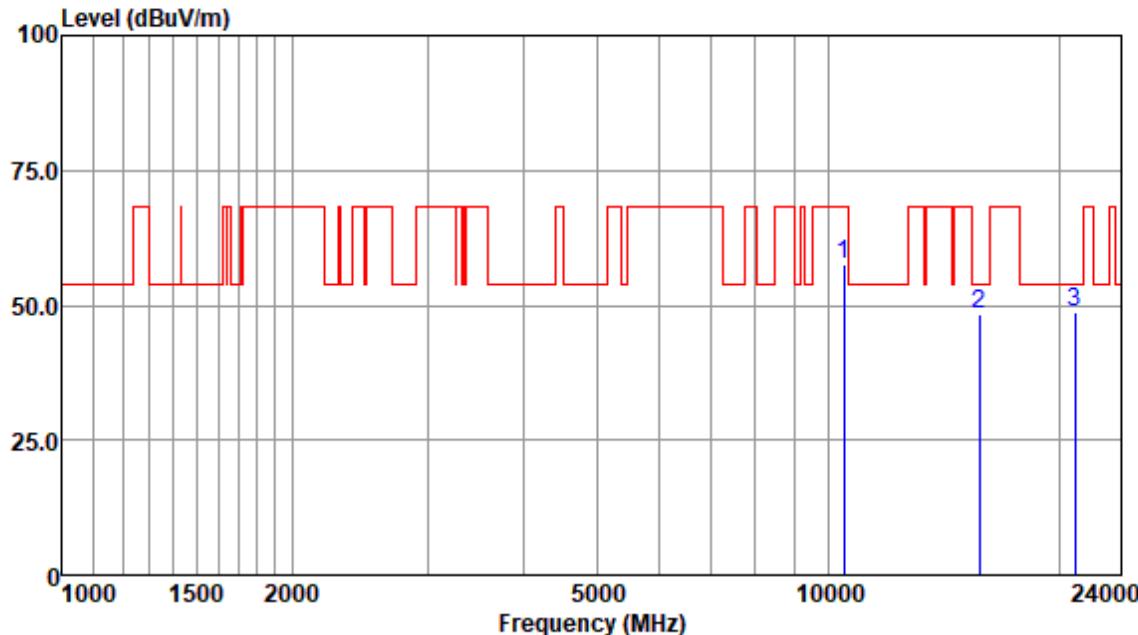
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10440.00 | 50.50 | 34.92 | 6.56 | 34.46 | 57.52 | 68.20 | -10.68 | Peak |
| 15660.00 | 37.17 | 37.51 | 10.11 | 36.63 | 48.16 | 54.00 | -5.84 | Peak |
| 20880.00 | 29.29 | 43.48 | 11.97 | 36.05 | 48.69 | 54.00 | -5.31 | Peak |

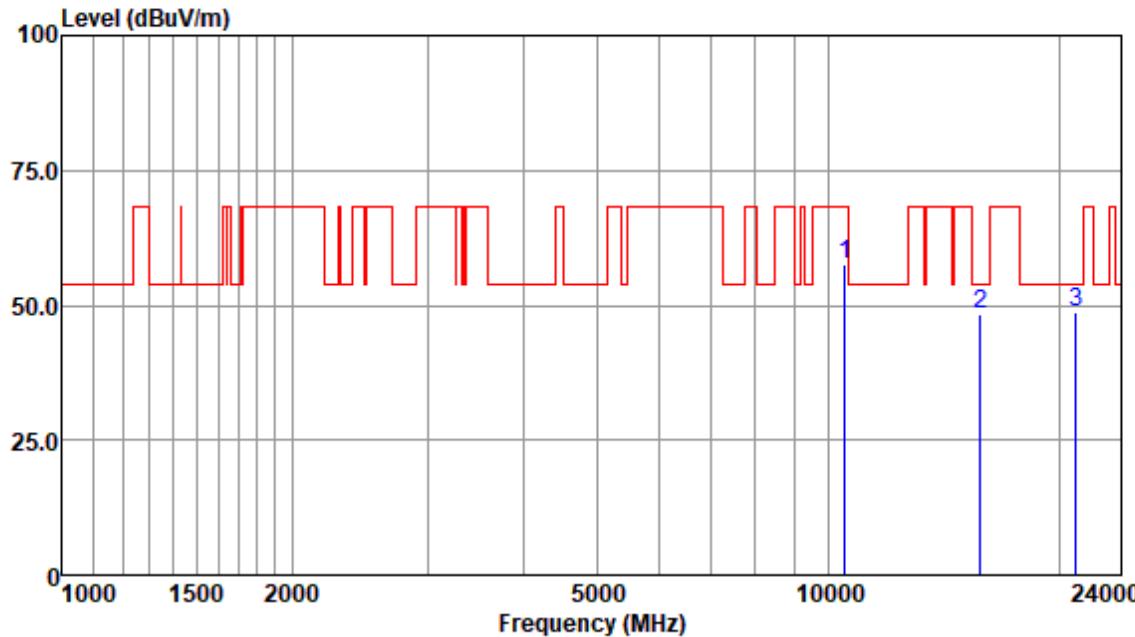
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10480.00 | 50.37 | 34.95 | 6.58 | 34.48 | 57.42 | 68.20 | -10.78 | Peak |
| 15720.00 | 37.50 | 37.54 | 9.80 | 36.58 | 48.26 | 54.00 | -5.74 | Peak |
| 20960.00 | 29.23 | 43.52 | 12.00 | 36.06 | 48.69 | 54.00 | -5.31 | Peak |

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

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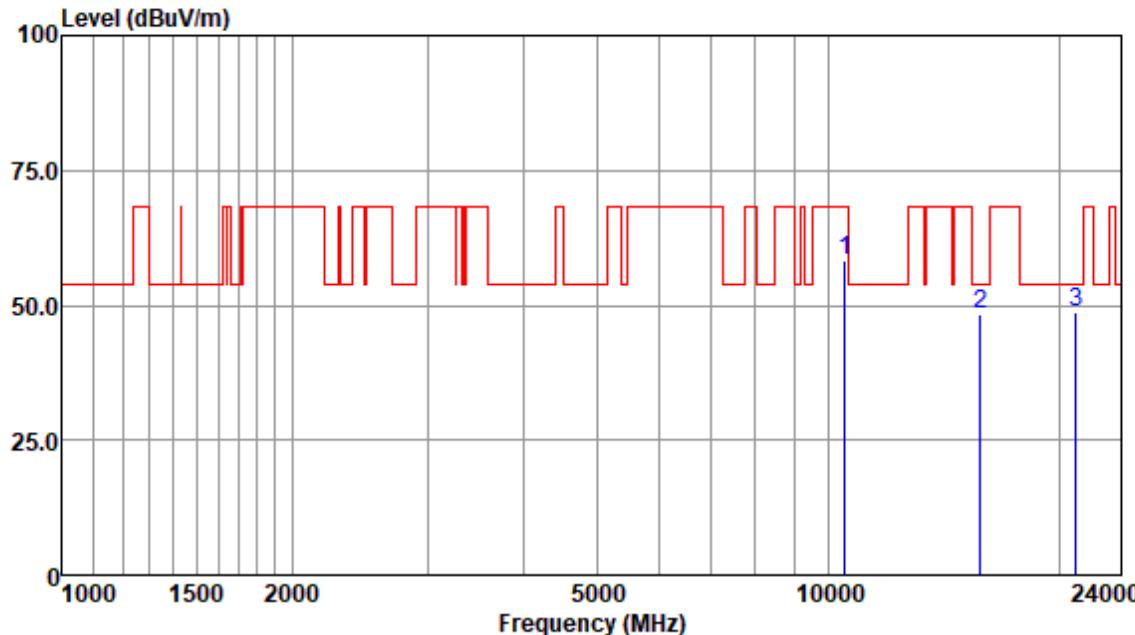
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NO.588 West Jindu Road, Songjiang District, Shanghai China 201612
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t (86-21) 61915666 f (86-21) 61915678 sgs.china@sgs.com

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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10480.00 | 51.41 | 34.95 | 6.58 | 34.48 | 58.46 | 68.20 | -9.74 | Peak |
| 15720.00 | 37.76 | 37.54 | 9.80 | 36.58 | 48.52 | 54.00 | -5.48 | Peak |
| 20960.00 | 29.31 | 43.52 | 12.00 | 36.06 | 48.77 | 54.00 | -5.23 | Peak |

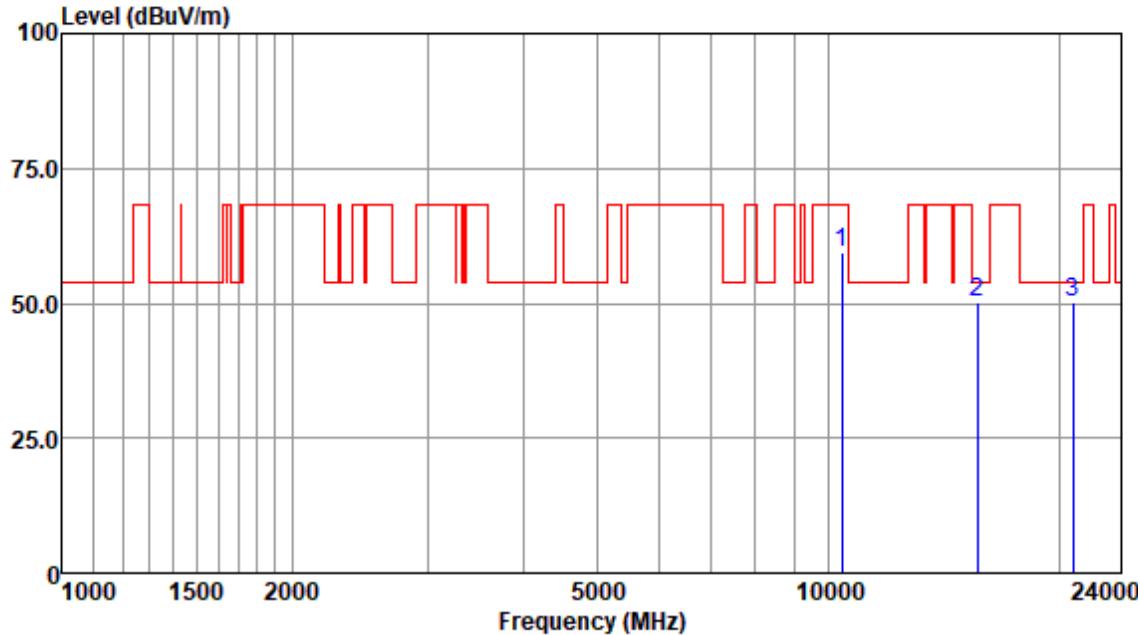
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10380.00 | 52.49 | 34.93 | 6.53 | 34.40 | 59.55 | 68.20 | -8.65 | Peak |
| 15570.00 | 39.41 | 37.45 | 10.03 | 36.73 | 50.16 | 54.00 | -3.84 | Peak |
| 20760.00 | 30.98 | 43.41 | 11.90 | 36.05 | 50.24 | 54.00 | -3.76 | Peak |

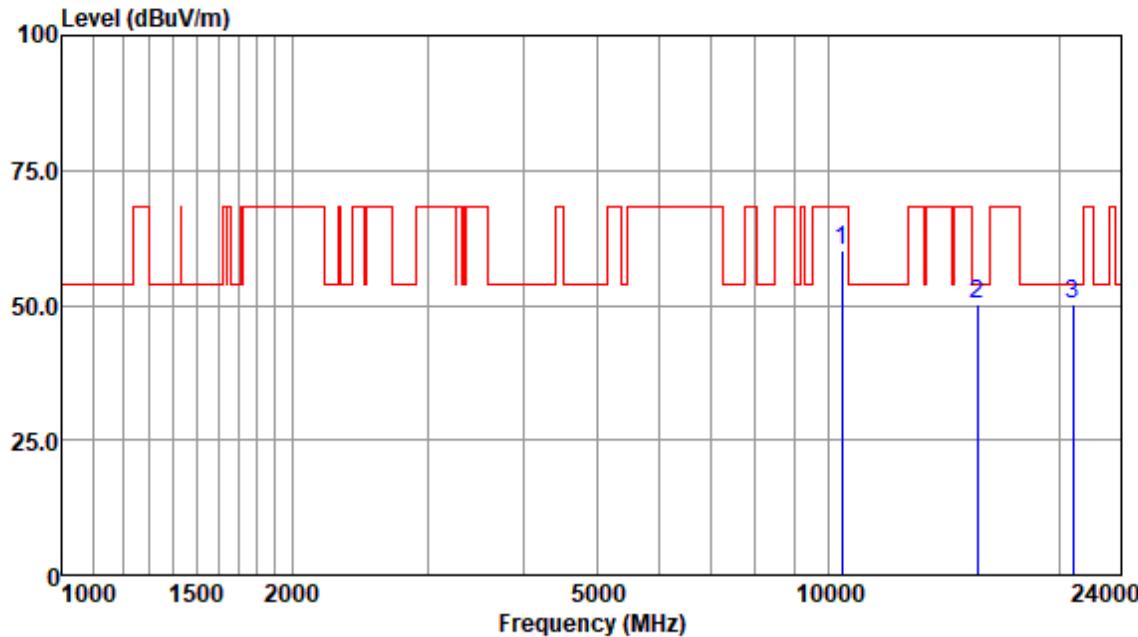
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10380.00 | 53.01 | 34.93 | 6.53 | 34.40 | 60.07 | 68.20 | -8.13 | Peak |
| 15570.00 | 39.59 | 37.45 | 10.03 | 36.73 | 50.34 | 54.00 | -3.66 | Peak |
| 20760.00 | 30.99 | 43.41 | 11.90 | 36.05 | 50.25 | 54.00 | -3.75 | Peak |

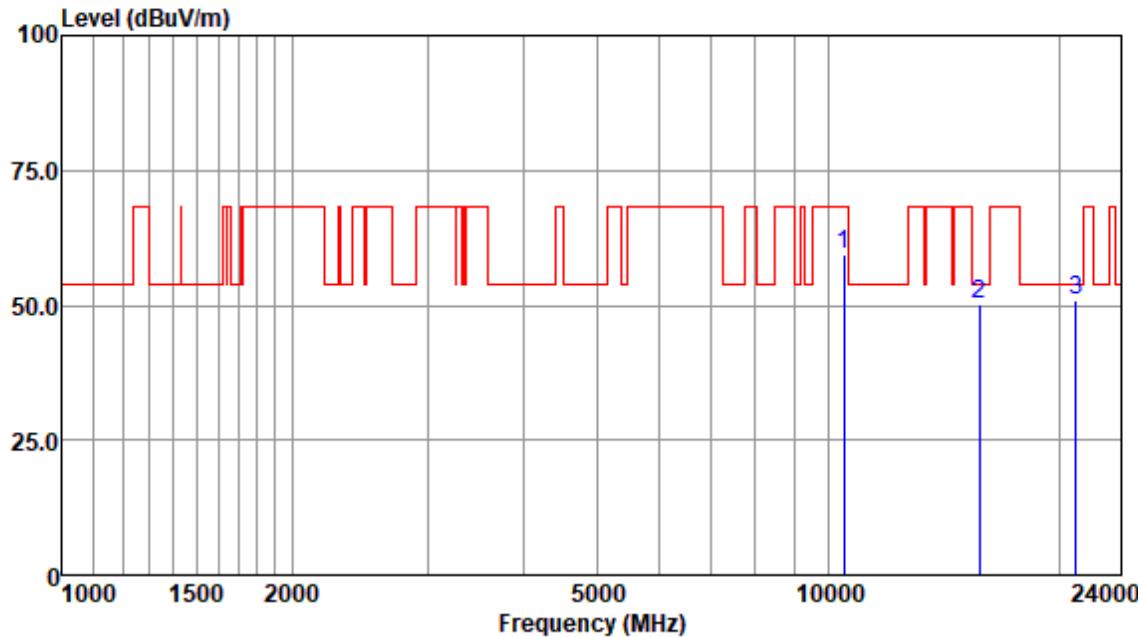
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 10460.00 | 52.32 | 34.95 | 6.58 | 34.48 | 59.37 | 68.20 | -8.83 | Peak |
| 15690.00 | 39.30 | 37.51 | 10.11 | 36.63 | 50.29 | 54.00 | -3.71 | Peak |
| 20920.00 | 31.39 | 43.52 | 12.00 | 36.06 | 50.85 | 54.00 | -3.15 | Peak |

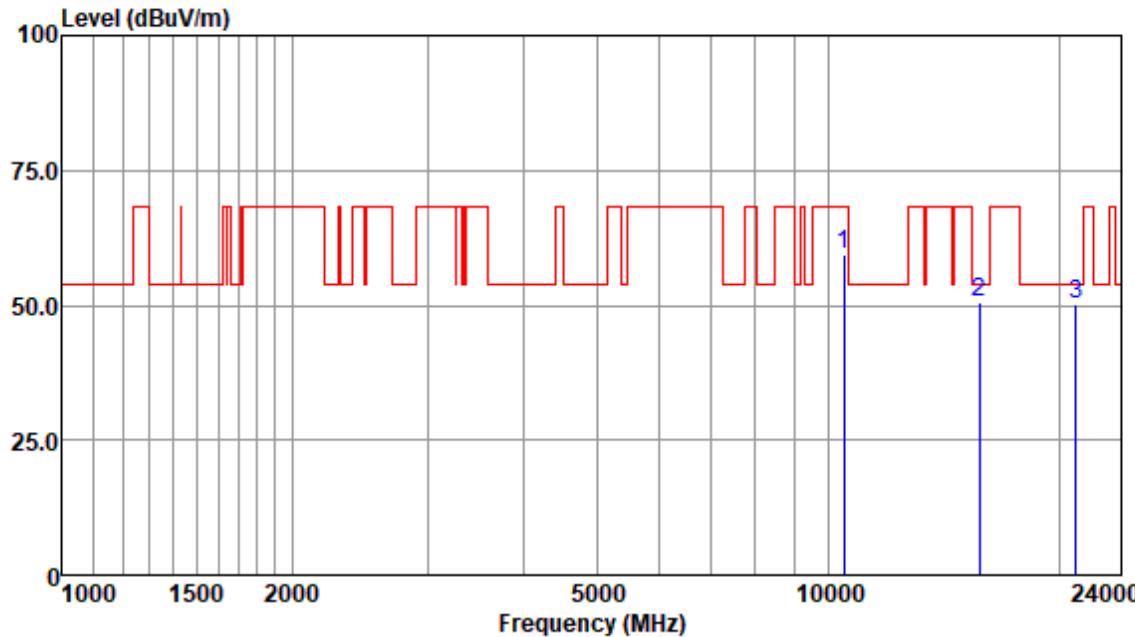
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10460.00 | 52.21 | 34.95 | 6.58 | 34.48 | 59.26 | 68.20 | -8.94 | Peak |
| 15690.00 | 39.55 | 37.51 | 10.11 | 36.63 | 50.54 | 54.00 | -3.46 | Peak |
| 20920.00 | 30.82 | 43.52 | 12.00 | 36.06 | 50.28 | 54.00 | -3.72 | Peak |

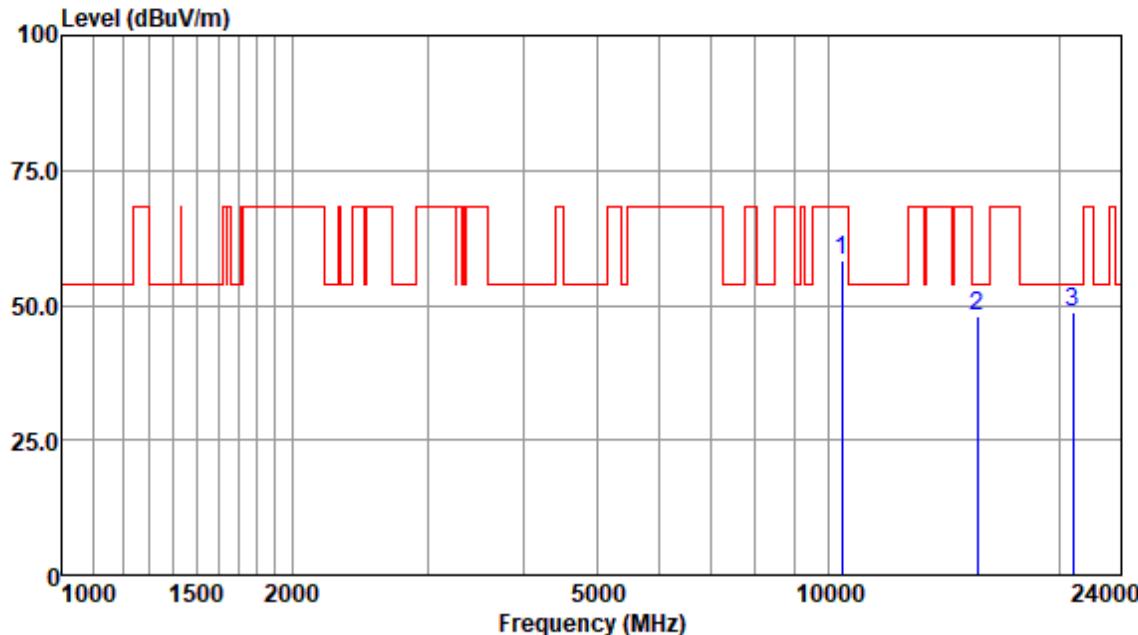
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10380.00 | 51.08 | 34.93 | 6.53 | 34.40 | 58.14 | 68.20 | -10.06 | Peak |
| 15570.00 | 37.40 | 37.45 | 10.03 | 36.73 | 48.15 | 54.00 | -5.85 | Peak |
| 20760.00 | 29.32 | 43.41 | 11.90 | 36.05 | 48.58 | 54.00 | -5.42 | Peak |

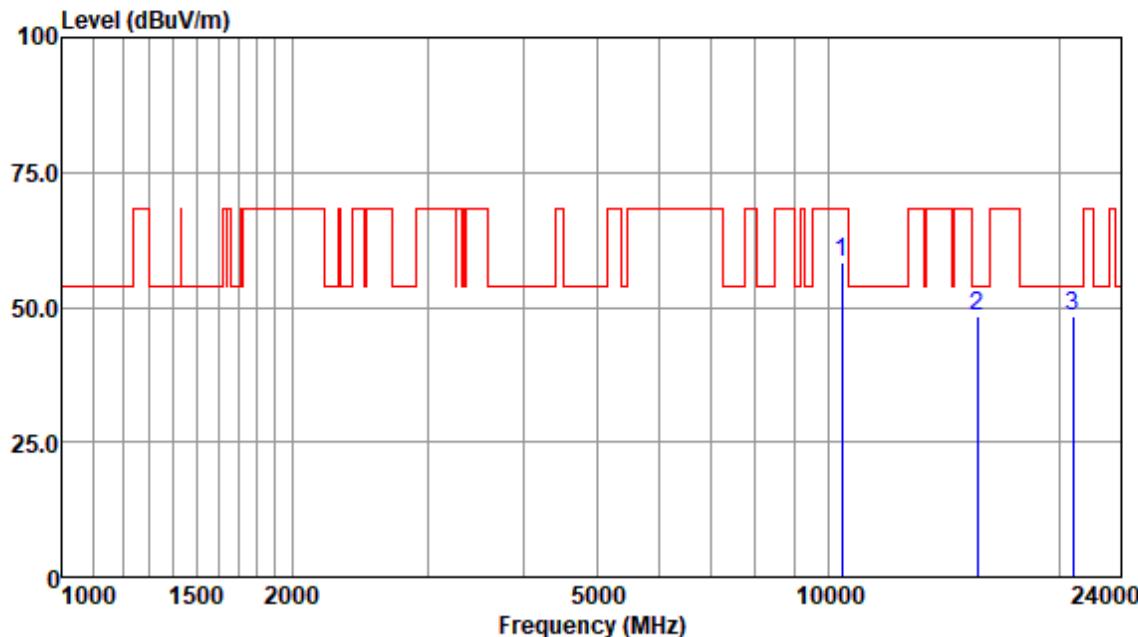
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10380.00 | 51.30 | 34.93 | 6.53 | 34.40 | 58.36 | 68.20 | -9.84 | Peak |
| 15570.00 | 37.41 | 37.45 | 10.03 | 36.73 | 48.16 | 54.00 | -5.84 | Peak |
| 20760.00 | 29.25 | 43.41 | 11.90 | 36.05 | 48.51 | 54.00 | -5.49 | Peak |

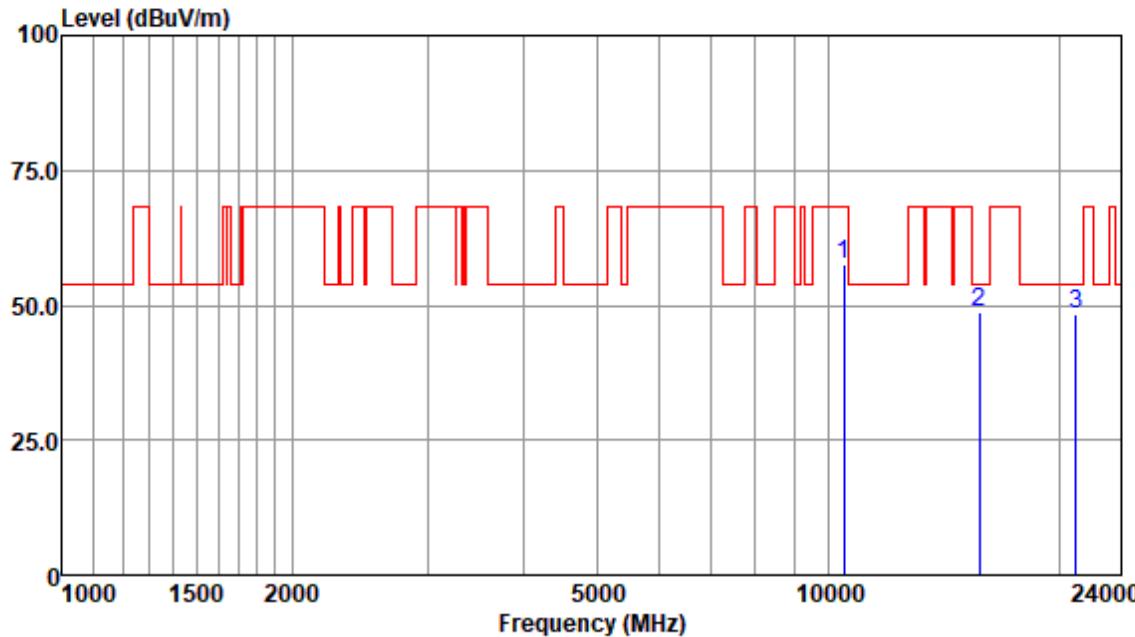
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10460.00 | 50.40 | 34.95 | 6.58 | 34.48 | 57.45 | 68.20 | -10.75 | Peak |
| 15690.00 | 37.59 | 37.51 | 10.11 | 36.63 | 48.58 | 54.00 | -5.42 | Peak |
| 20920.00 | 28.87 | 43.52 | 12.00 | 36.06 | 48.33 | 54.00 | -5.67 | Peak |

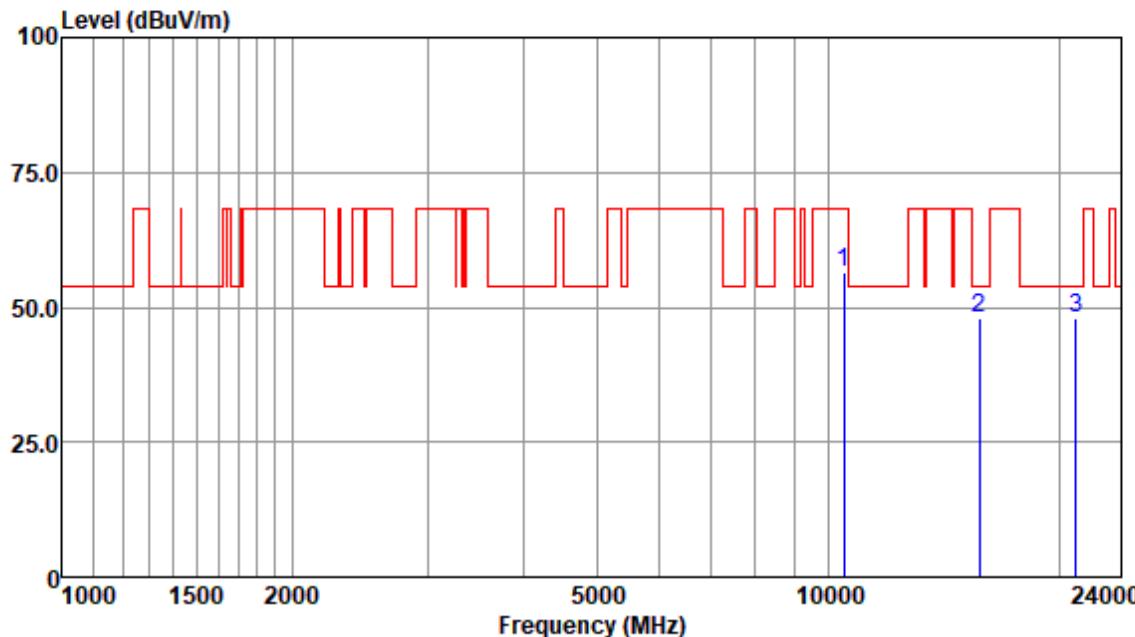
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10460.00 | 49.28 | 34.95 | 6.58 | 34.48 | 56.33 | 68.20 | -11.87 | Peak |
| 15690.00 | 37.12 | 37.51 | 10.11 | 36.63 | 48.11 | 54.00 | -5.89 | Peak |
| 20920.00 | 28.56 | 43.52 | 12.00 | 36.06 | 48.02 | 54.00 | -5.98 | Peak |

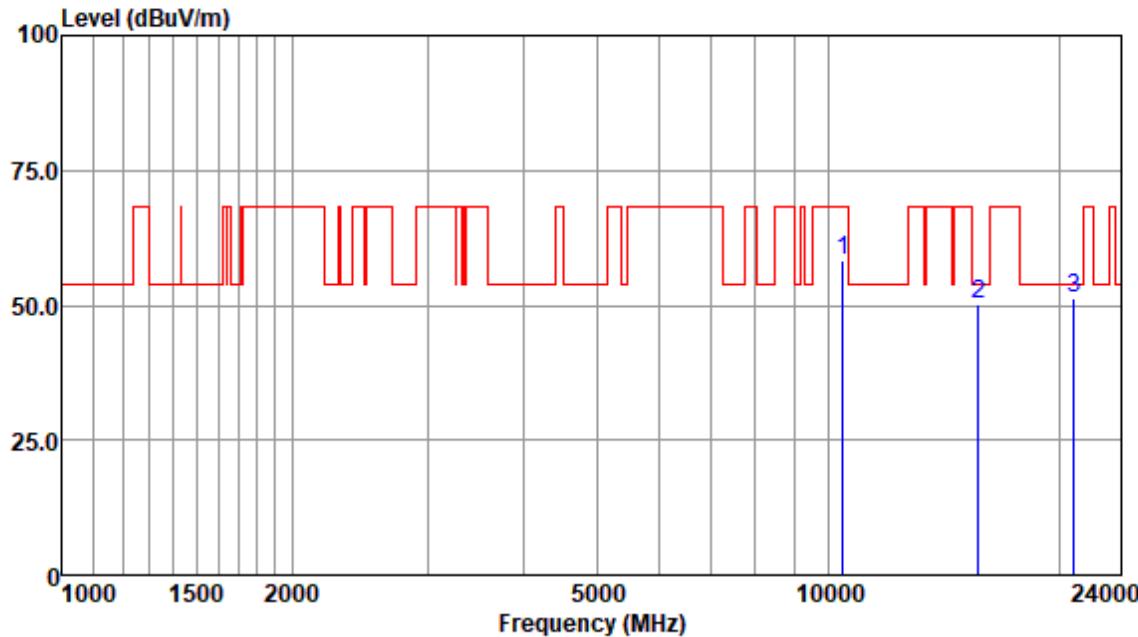
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10420.00 | 51.40 | 34.92 | 6.55 | 34.43 | 58.44 | 68.20 | -9.76 | Peak |
| 15630.00 | 39.29 | 37.48 | 10.07 | 36.68 | 50.16 | 54.00 | -3.84 | Peak |
| 20840.00 | 31.88 | 43.48 | 11.97 | 36.05 | 51.28 | 54.00 | -2.72 | Peak |

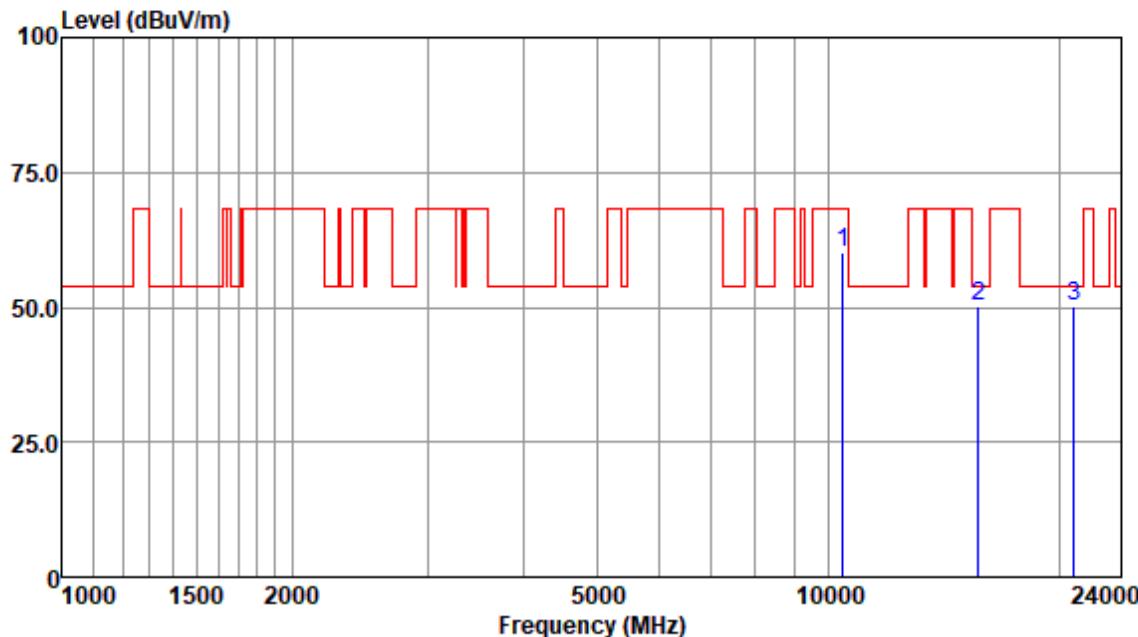
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 10420.00 | 53.20 | 34.92 | 6.55 | 34.43 | 60.24 | 68.20 | -7.96 | Peak |
| 15630.00 | 39.41 | 37.48 | 10.07 | 36.68 | 50.28 | 54.00 | -3.72 | Peak |
| 20840.00 | 30.96 | 43.48 | 11.97 | 36.05 | 50.36 | 54.00 | -3.64 | Peak |

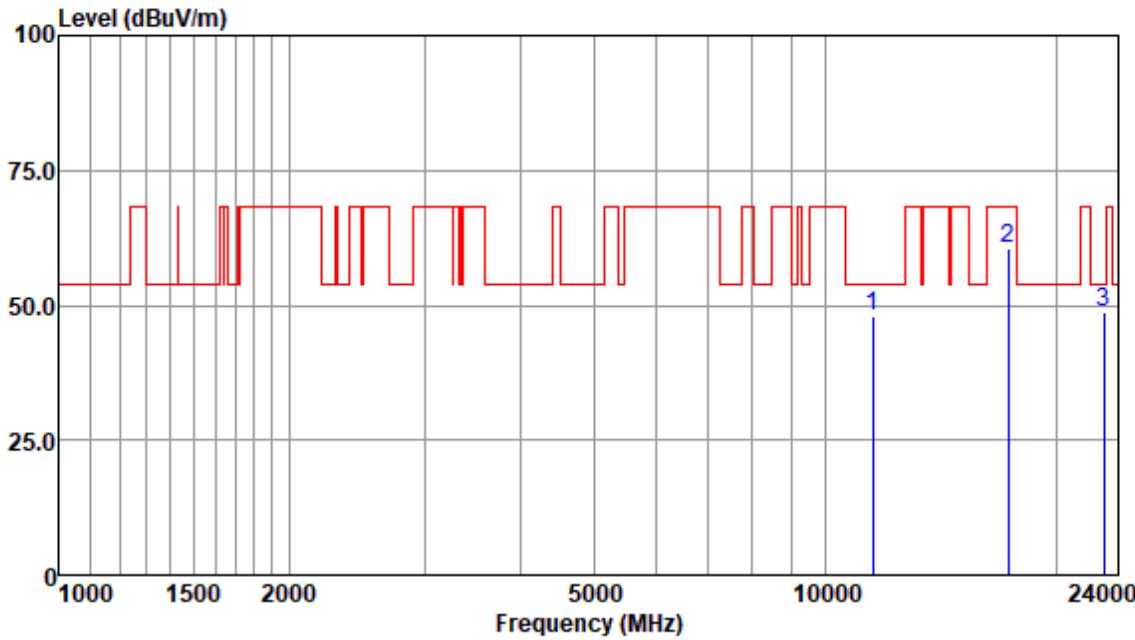
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11490.00 | 40.78 | 35.79 | 7.36 | 35.88 | 48.05 | 54.00 | -5.95 | Peak |
| 17235.00 | 45.74 | 40.60 | 10.19 | 36.14 | 60.39 | 68.20 | -7.81 | Peak |
| 22980.00 | 27.33 | 44.52 | 13.01 | 36.15 | 48.71 | 54.00 | -5.29 | Peak |

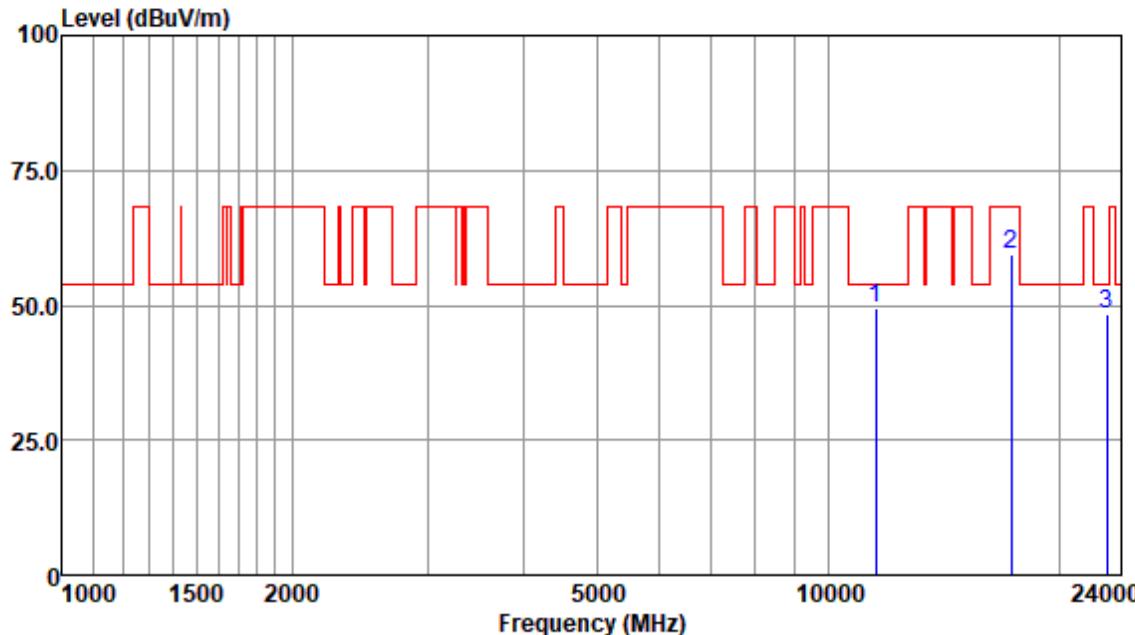
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11490.00 | 42.25 | 35.79 | 7.36 | 35.88 | 49.52 | 54.00 | -4.48 | Peak |
| 17235.00 | 44.76 | 40.60 | 10.19 | 36.14 | 59.41 | 68.20 | -8.79 | Peak |
| 22980.00 | 26.81 | 44.52 | 13.01 | 36.15 | 48.19 | 54.00 | -5.81 | Peak |

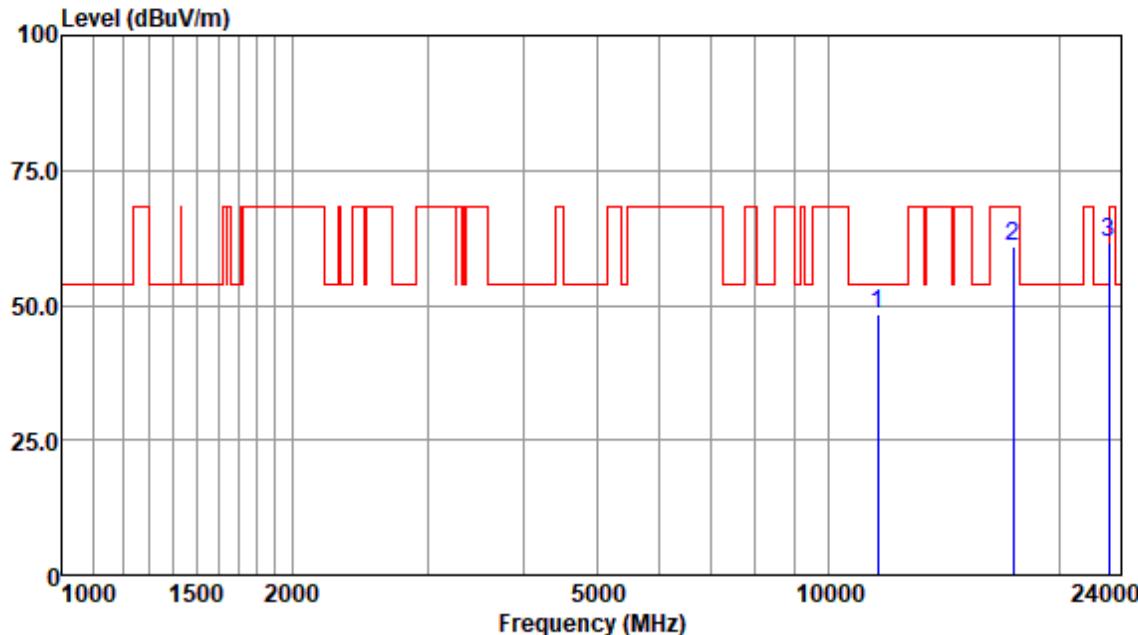
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11570.00 | 41.32 | 35.78 | 7.44 | 36.02 | 48.52 | 54.00 | -5.48 | Peak |
| 17355.00 | 45.77 | 40.95 | 10.32 | 36.25 | 60.79 | 68.20 | -7.41 | Peak |
| 23140.00 | 40.14 | 44.62 | 13.12 | 36.16 | 61.72 | 68.20 | -6.48 | Peak |

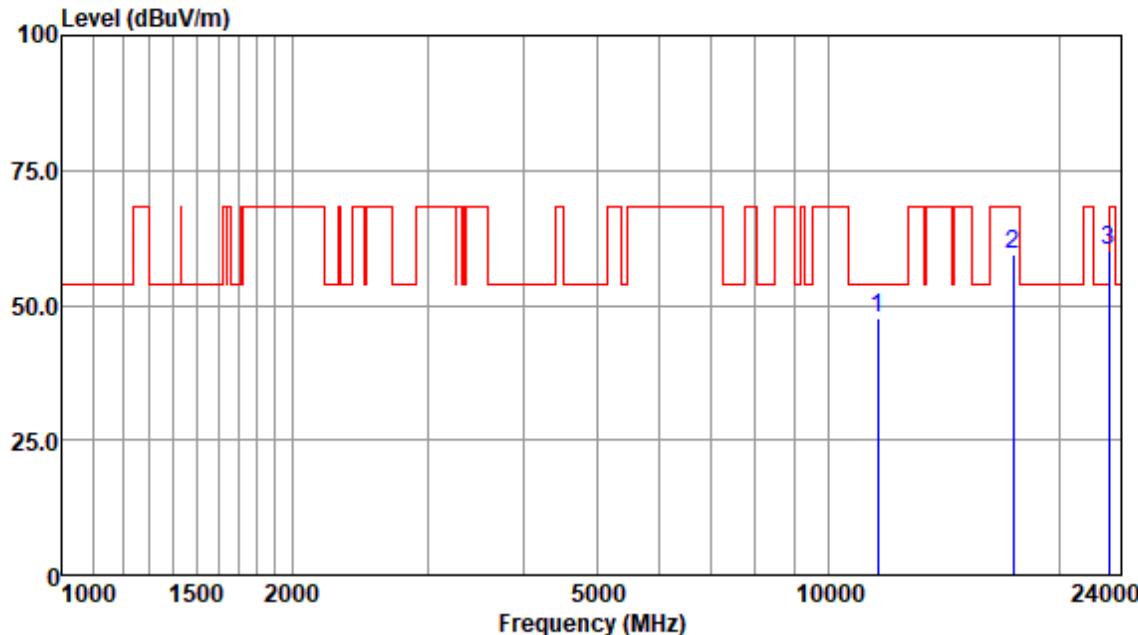
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11570.00 | 40.38 | 35.78 | 7.44 | 36.02 | 47.58 | 54.00 | -6.42 | Peak |
| 17355.00 | 44.32 | 40.95 | 10.32 | 36.25 | 59.34 | 68.20 | -8.86 | Peak |
| 23140.00 | 38.75 | 44.62 | 13.12 | 36.16 | 60.33 | 68.20 | -7.87 | Peak |

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

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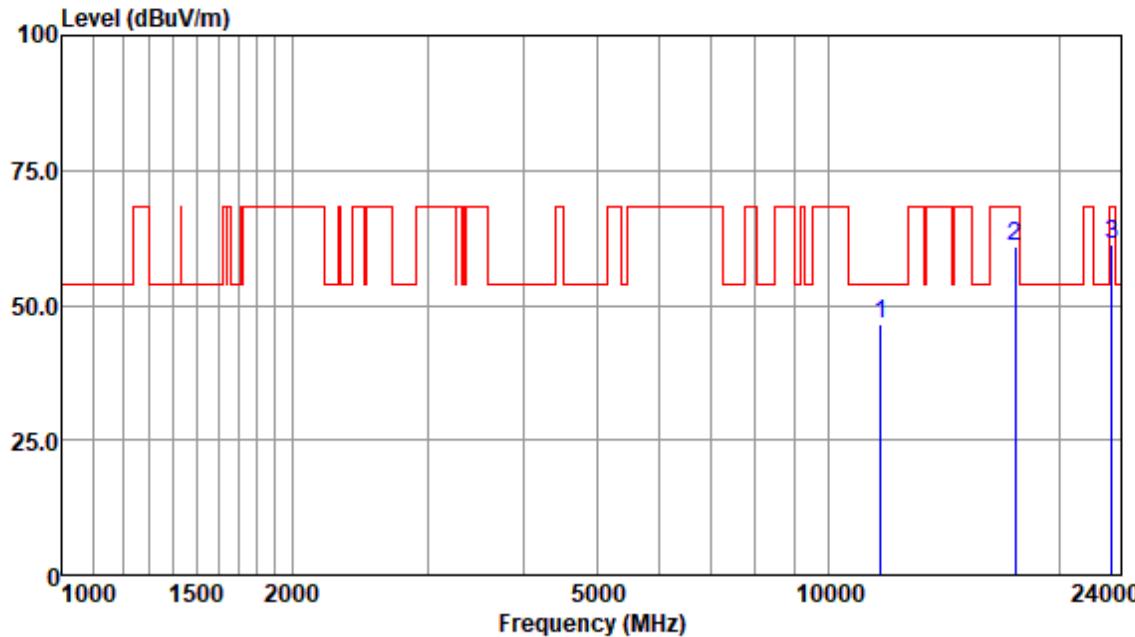
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11650.00 | 39.28 | 35.77 | 7.56 | 36.23 | 46.38 | 54.00 | -7.62 | Peak |
| 17475.00 | 45.53 | 41.30 | 10.45 | 36.37 | 60.91 | 68.20 | -7.29 | Peak |
| 23300.00 | 39.65 | 44.69 | 13.19 | 36.17 | 61.36 | 68.20 | -6.84 | Peak |

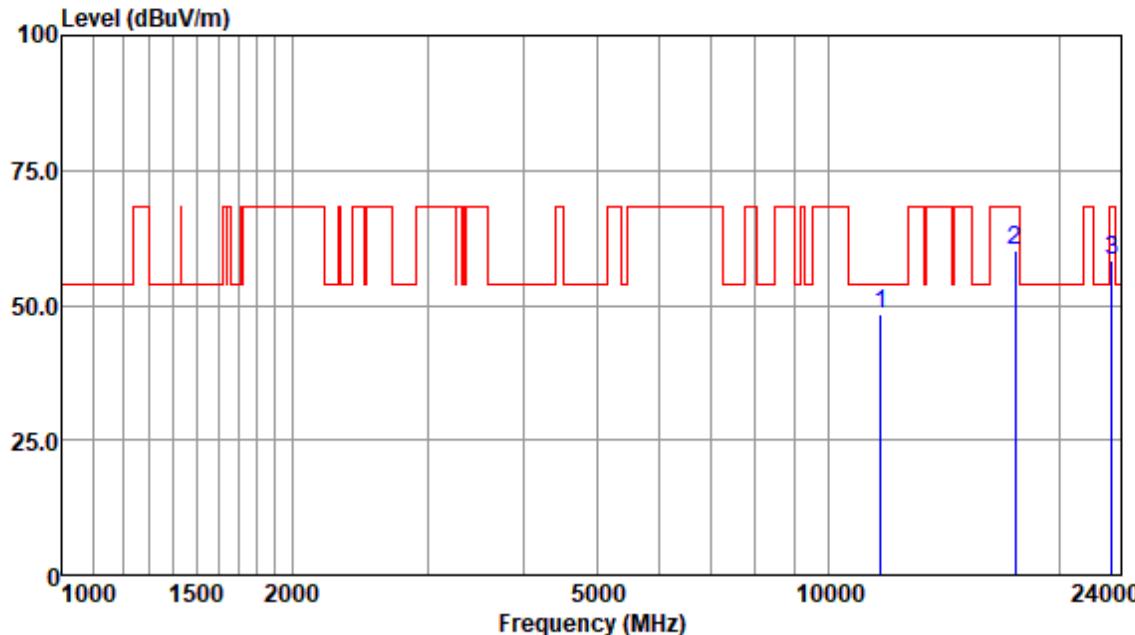
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11650.00 | 41.06 | 35.77 | 7.56 | 36.23 | 48.16 | 54.00 | -5.84 | Peak |
| 17475.00 | 44.86 | 41.30 | 10.45 | 36.37 | 60.24 | 68.20 | -7.96 | Peak |
| 23300.00 | 36.75 | 44.69 | 13.19 | 36.17 | 58.46 | 68.20 | -9.74 | Peak |

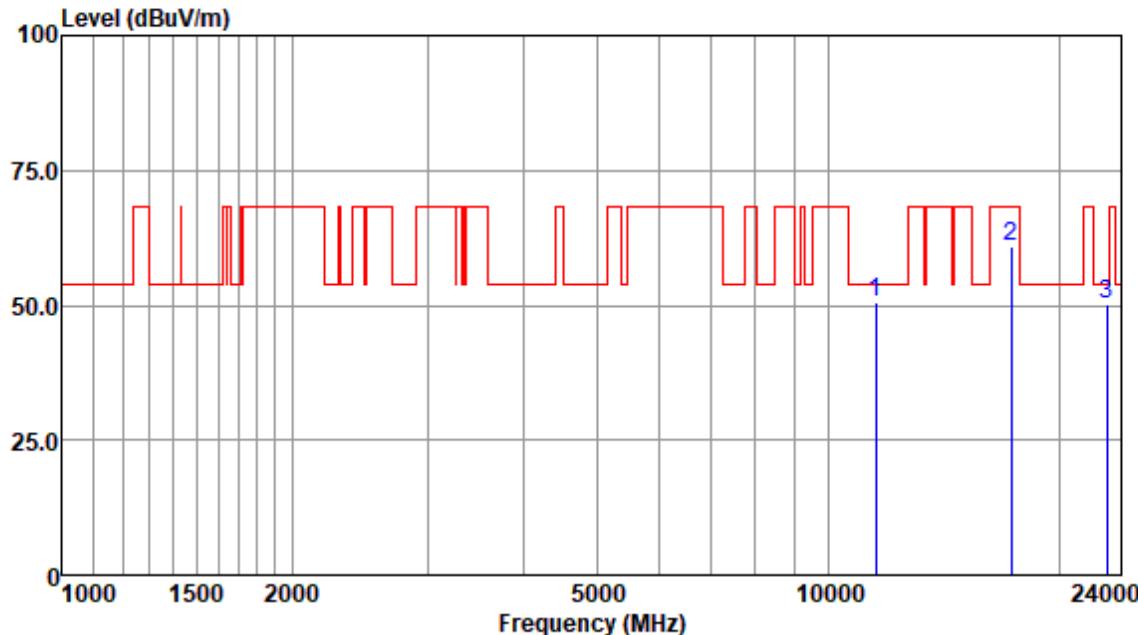
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11490.00 | 43.19 | 35.79 | 7.36 | 35.88 | 50.46 | 54.00 | -3.54 | Peak |
| 17235.00 | 46.19 | 40.60 | 10.19 | 36.14 | 60.84 | 68.20 | -7.36 | Peak |
| 22980.00 | 28.98 | 44.52 | 13.01 | 36.15 | 50.36 | 54.00 | -3.64 | Peak |

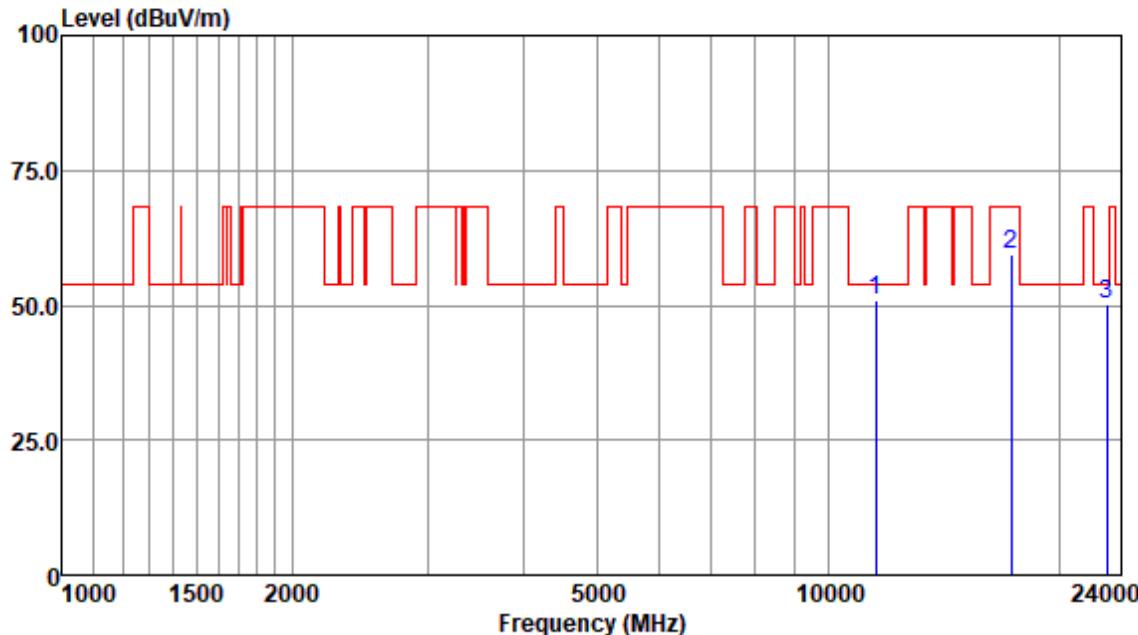
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11490.00 | 43.52 | 35.79 | 7.36 | 35.88 | 50.79 | 54.00 | -3.21 | Peak |
| 17235.00 | 44.87 | 40.60 | 10.19 | 36.14 | 59.52 | 68.20 | -8.68 | Peak |
| 22980.00 | 28.85 | 44.52 | 13.01 | 36.15 | 50.23 | 54.00 | -3.77 | Peak |

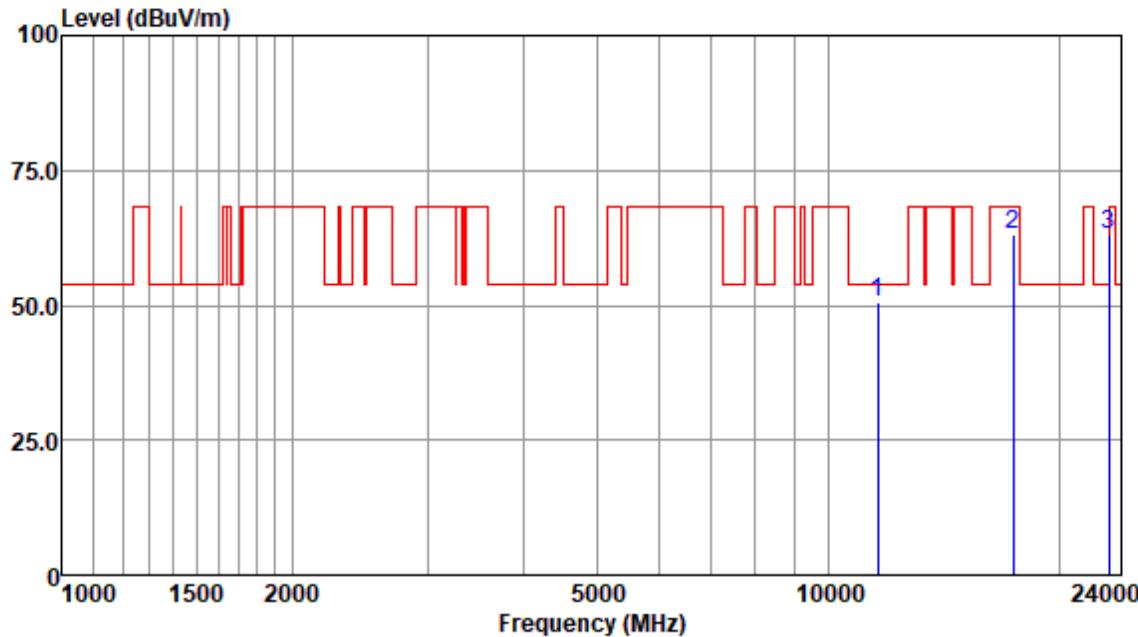
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11570.00 | 43.44 | 35.78 | 7.44 | 36.02 | 50.64 | 54.00 | -3.36 | Peak |
| 17355.00 | 48.26 | 40.95 | 10.32 | 36.25 | 63.28 | 68.20 | -4.92 | Peak |
| 23140.00 | 41.39 | 44.62 | 13.12 | 36.16 | 62.97 | 68.20 | -5.23 | Peak |

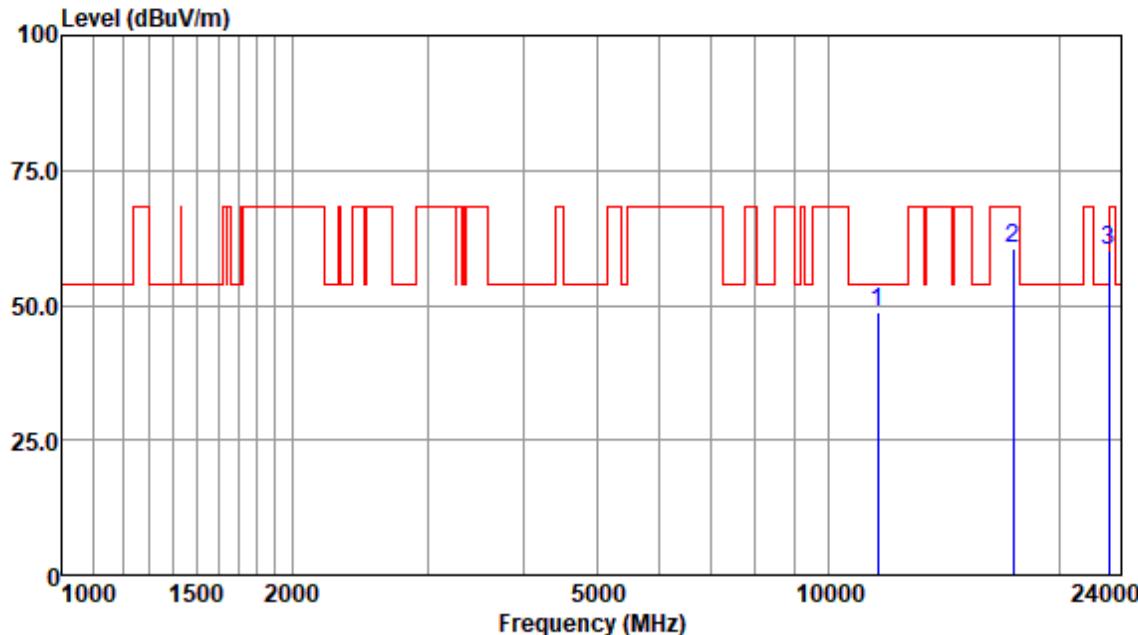
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11570.00 | 41.35 | 35.78 | 7.44 | 36.02 | 48.55 | 54.00 | -5.45 | Peak |
| 17355.00 | 45.51 | 40.95 | 10.32 | 36.25 | 60.53 | 68.20 | -7.67 | Peak |
| 23140.00 | 38.66 | 44.62 | 13.12 | 36.16 | 60.24 | 68.20 | -7.96 | Peak |

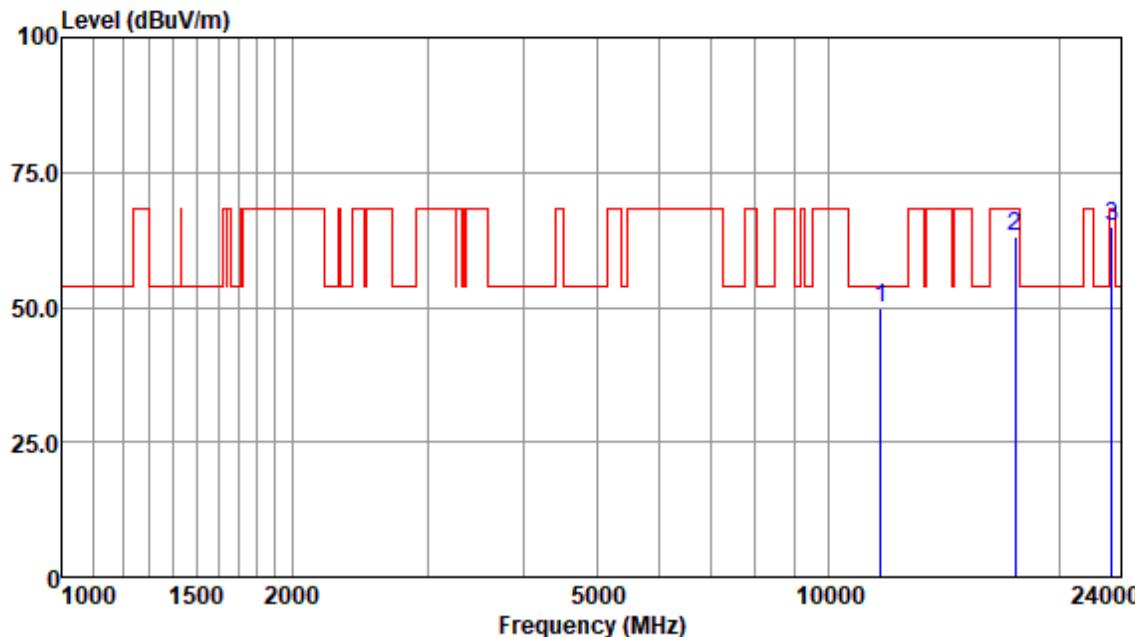
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11650.00 | 42.65 | 35.77 | 7.56 | 36.23 | 49.75 | 54.00 | -4.25 | Peak |
| 17475.00 | 47.86 | 41.30 | 10.45 | 36.37 | 63.24 | 68.20 | -4.96 | Peak |
| 23300.00 | 43.25 | 44.69 | 13.19 | 36.17 | 64.96 | 68.20 | -3.24 | Peak |

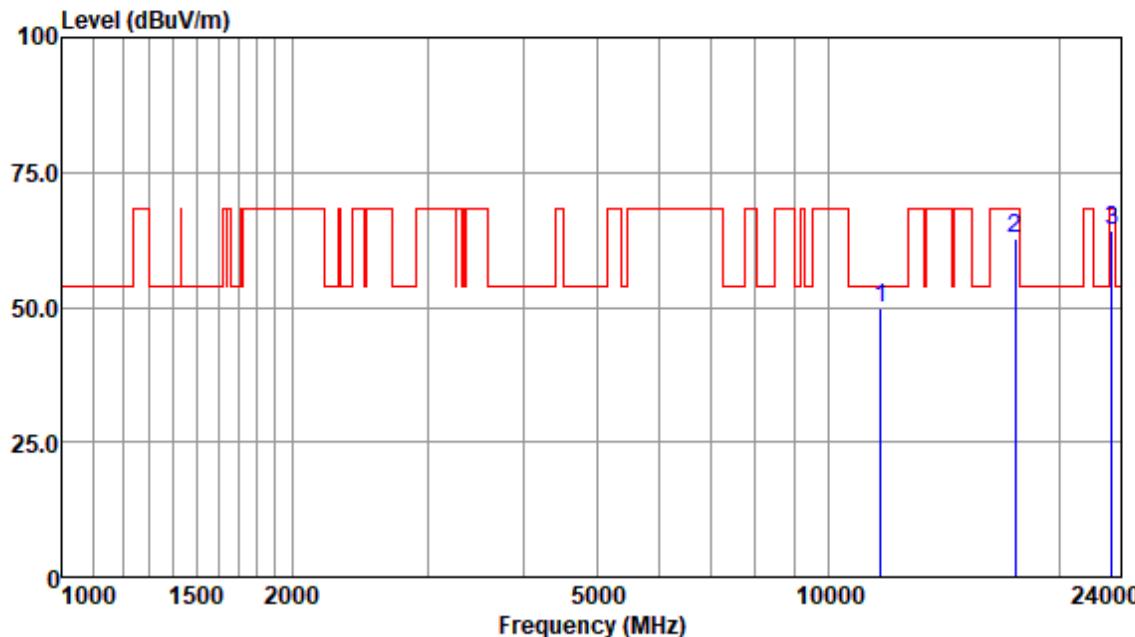
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11650.00 | 42.67 | 35.77 | 7.56 | 36.23 | 49.77 | 54.00 | -4.23 | Peak |
| 17475.00 | 47.17 | 41.30 | 10.45 | 36.37 | 62.55 | 68.20 | -5.65 | Peak |
| 23300.00 | 42.67 | 44.69 | 13.19 | 36.17 | 64.38 | 68.20 | -3.82 | Peak |

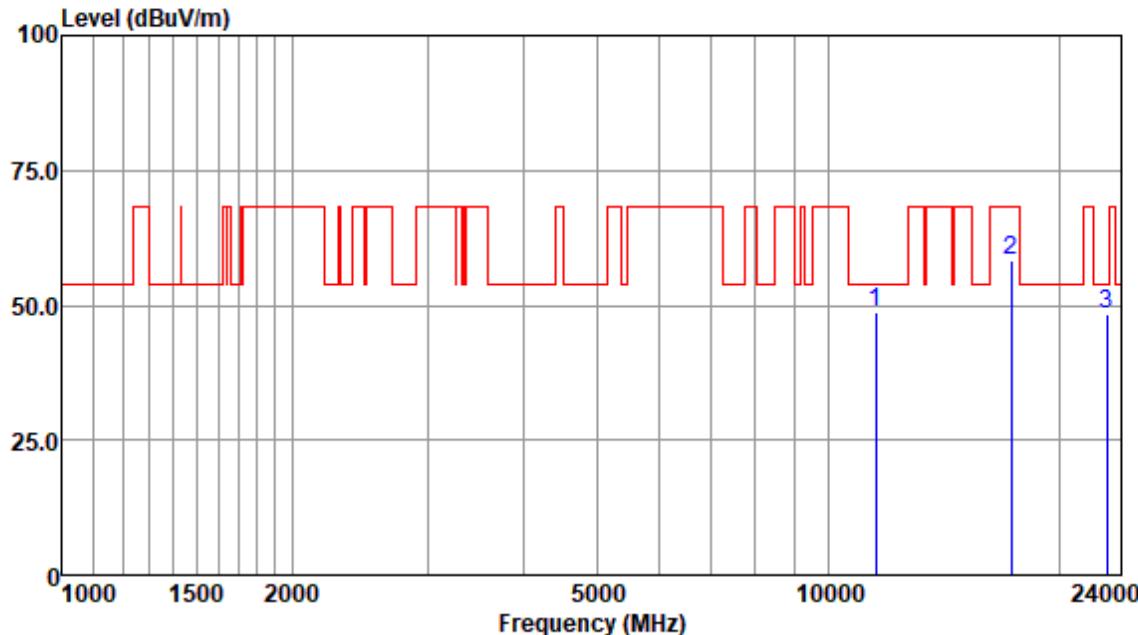
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11490.00 | 41.35 | 35.79 | 7.36 | 35.88 | 48.62 | 54.00 | -5.38 | Peak |
| 17235.00 | 43.76 | 40.60 | 10.19 | 36.14 | 58.41 | 68.20 | -9.79 | Peak |
| 22980.00 | 26.88 | 44.52 | 13.01 | 36.15 | 48.26 | 54.00 | -5.74 | Peak |

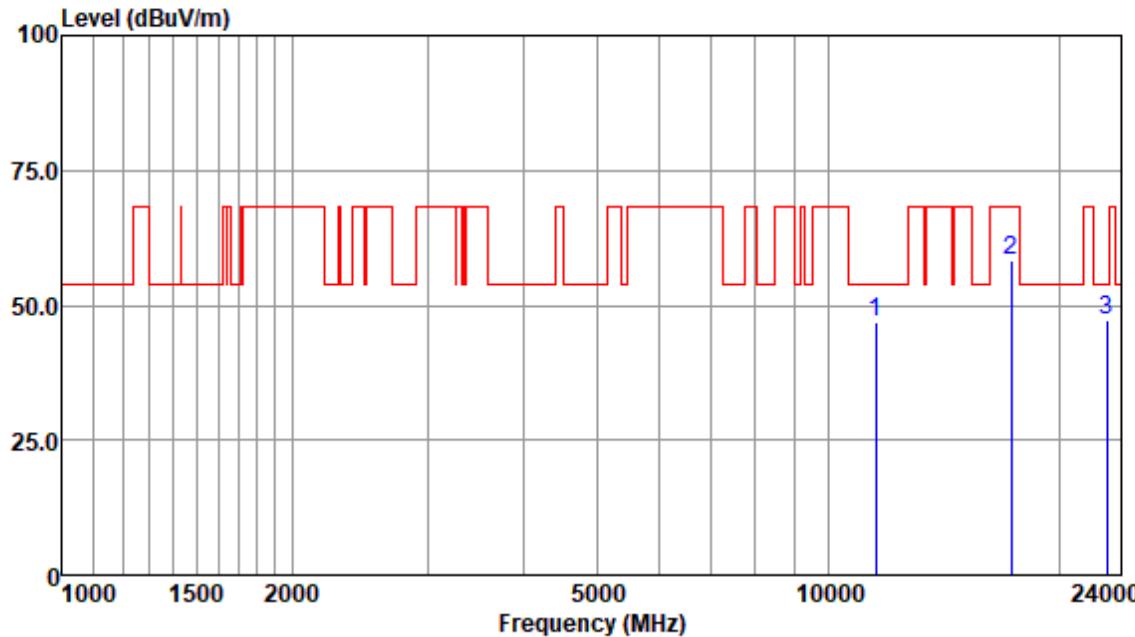
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11490.00 | 39.75 | 35.79 | 7.36 | 35.88 | 47.02 | 54.00 | -6.98 | Peak |
| 17235.00 | 43.72 | 40.60 | 10.19 | 36.14 | 58.37 | 68.20 | -9.83 | Peak |
| 22980.00 | 25.81 | 44.52 | 13.01 | 36.15 | 47.19 | 54.00 | -6.81 | Peak |

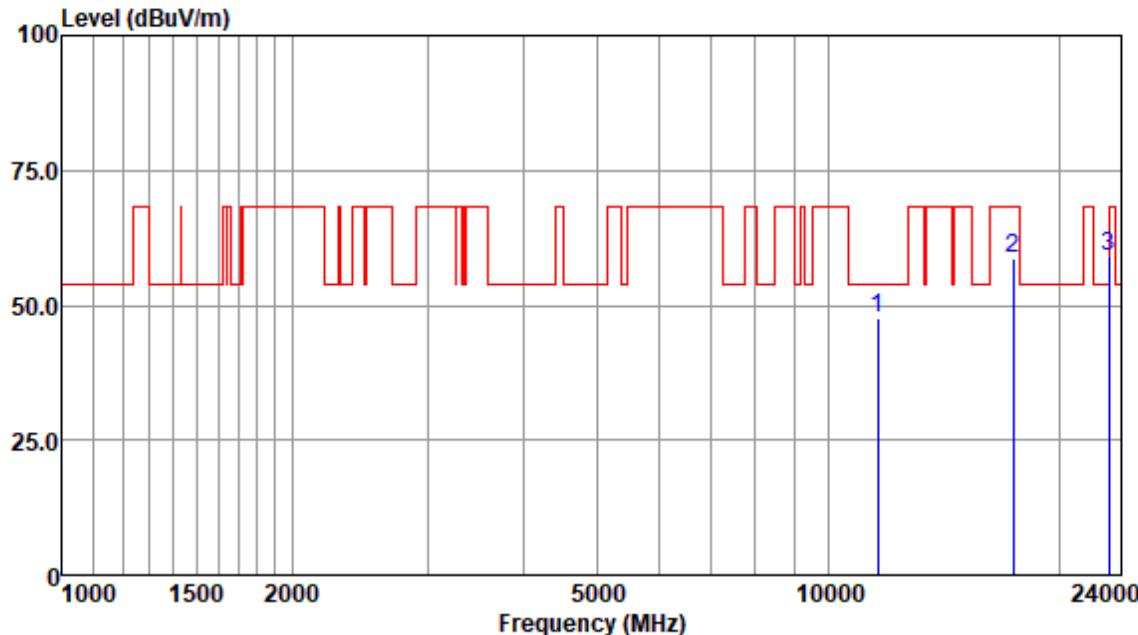
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11570.00 | 40.31 | 35.78 | 7.44 | 36.02 | 47.51 | 54.00 | -6.49 | Peak |
| 17355.00 | 43.60 | 40.95 | 10.32 | 36.25 | 58.62 | 68.20 | -9.58 | Peak |
| 23140.00 | 37.38 | 44.62 | 13.12 | 36.16 | 58.96 | 68.20 | -9.24 | Peak |

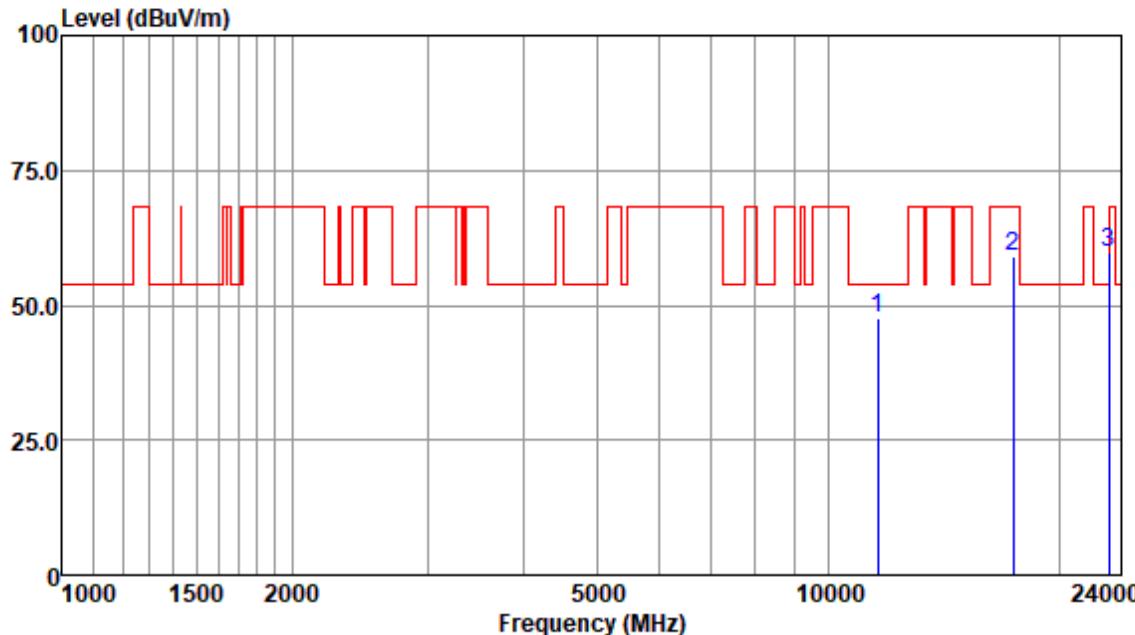
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11570.00 | 40.32 | 35.78 | 7.44 | 36.02 | 47.52 | 54.00 | -6.48 | Peak |
| 17355.00 | 43.97 | 40.95 | 10.32 | 36.25 | 58.99 | 68.20 | -9.21 | Peak |
| 23140.00 | 38.13 | 44.62 | 13.12 | 36.16 | 59.71 | 68.20 | -8.49 | Peak |

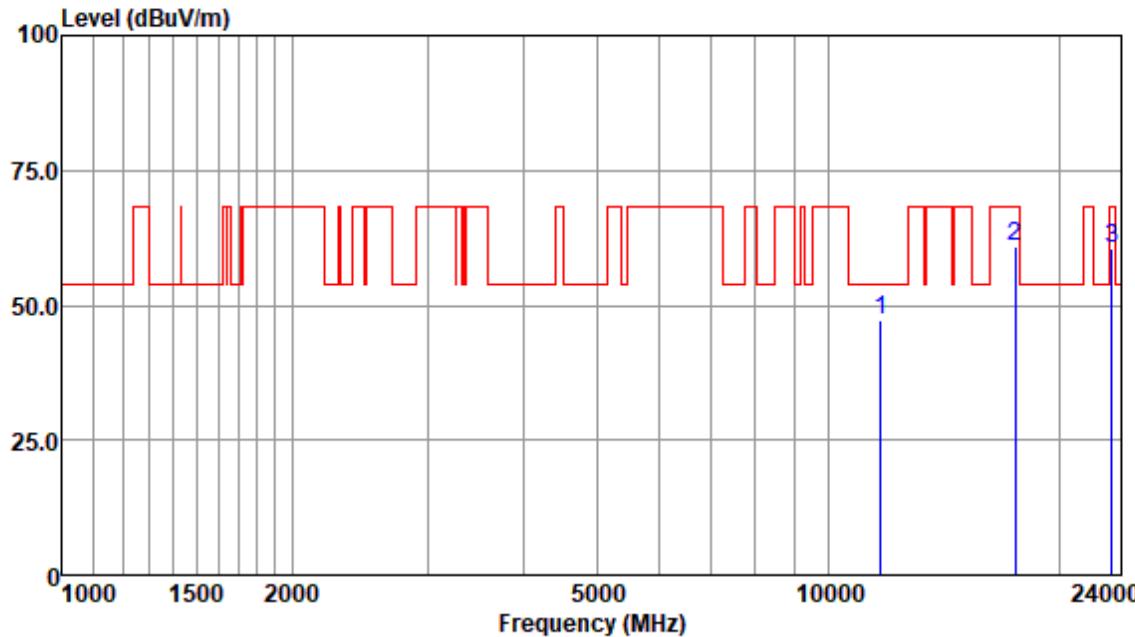
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11650.00 | 40.15 | 35.77 | 7.56 | 36.23 | 47.25 | 54.00 | -6.75 | Peak |
| 17475.00 | 45.68 | 41.30 | 10.45 | 36.37 | 61.06 | 68.20 | -7.14 | Peak |
| 23300.00 | 38.65 | 44.69 | 13.19 | 36.17 | 60.36 | 68.20 | -7.84 | Peak |

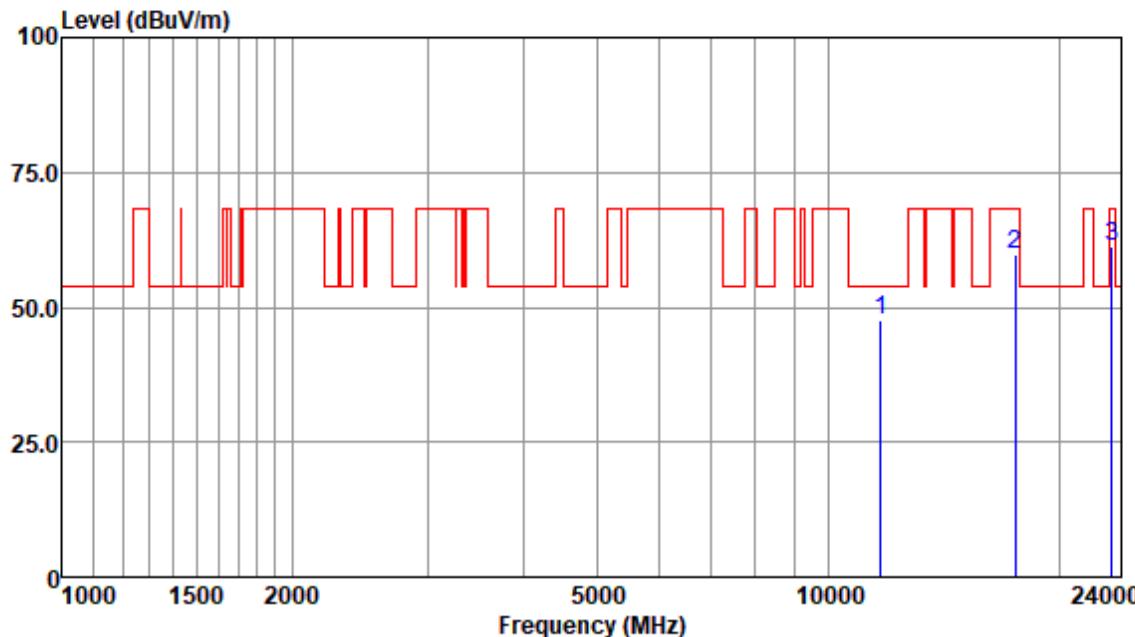
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11650.00 | 40.42 | 35.77 | 7.56 | 36.23 | 47.52 | 54.00 | -6.48 | Peak |
| 17475.00 | 44.48 | 41.30 | 10.45 | 36.37 | 59.86 | 68.20 | -8.34 | Peak |
| 23300.00 | 39.39 | 44.69 | 13.19 | 36.17 | 61.10 | 68.20 | -7.10 | Peak |

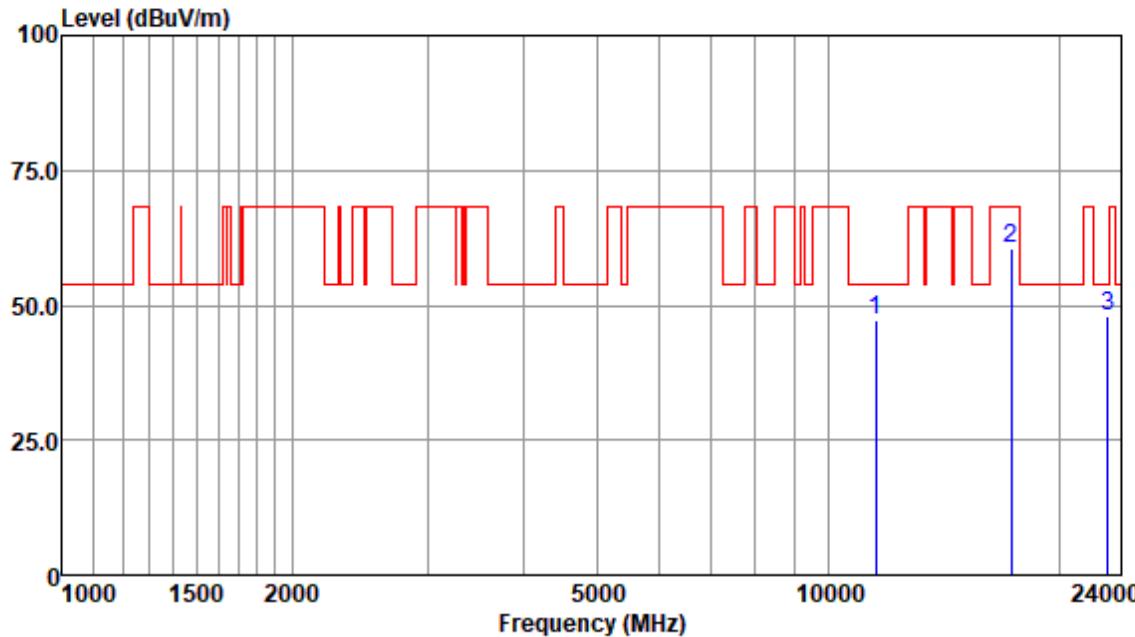
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11510.00 | 39.92 | 35.78 | 7.40 | 35.95 | 47.15 | 54.00 | -6.85 | Peak |
| 17265.00 | 45.97 | 40.60 | 10.19 | 36.14 | 60.62 | 68.20 | -7.58 | Peak |
| 23020.00 | 26.54 | 44.55 | 13.05 | 36.16 | 47.98 | 54.00 | -6.02 | Peak |

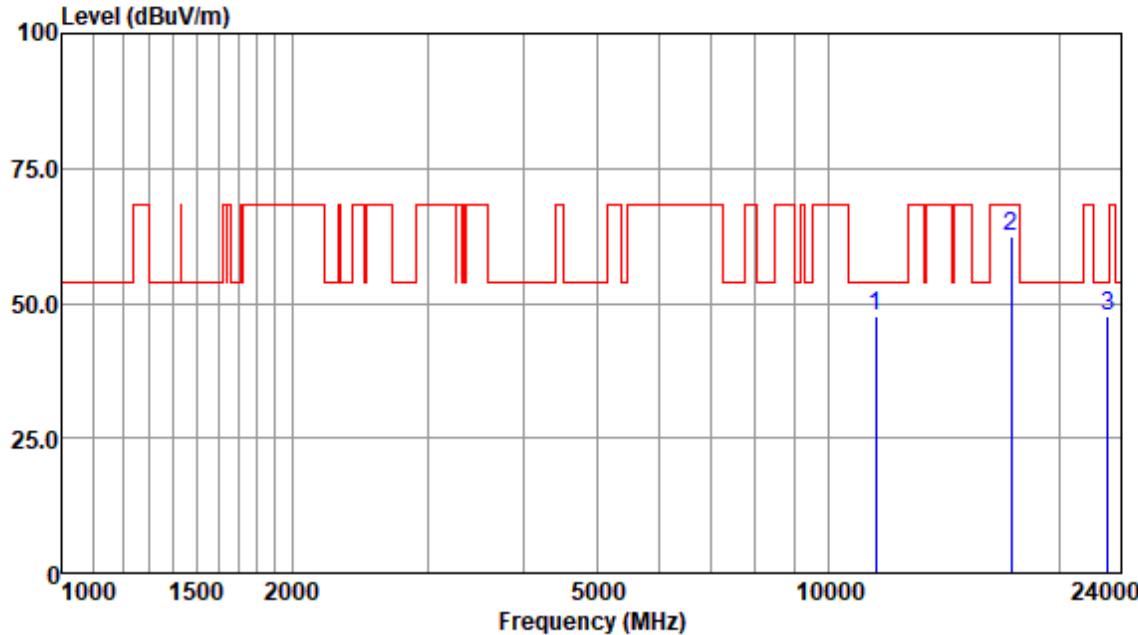
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11510.00 | 40.28 | 35.78 | 7.40 | 35.95 | 47.51 | 54.00 | -6.49 | Peak |
| 17265.00 | 47.54 | 40.60 | 10.19 | 36.14 | 62.19 | 68.20 | -6.01 | Peak |
| 23020.00 | 26.08 | 44.55 | 13.05 | 36.16 | 47.52 | 54.00 | -6.48 | Peak |

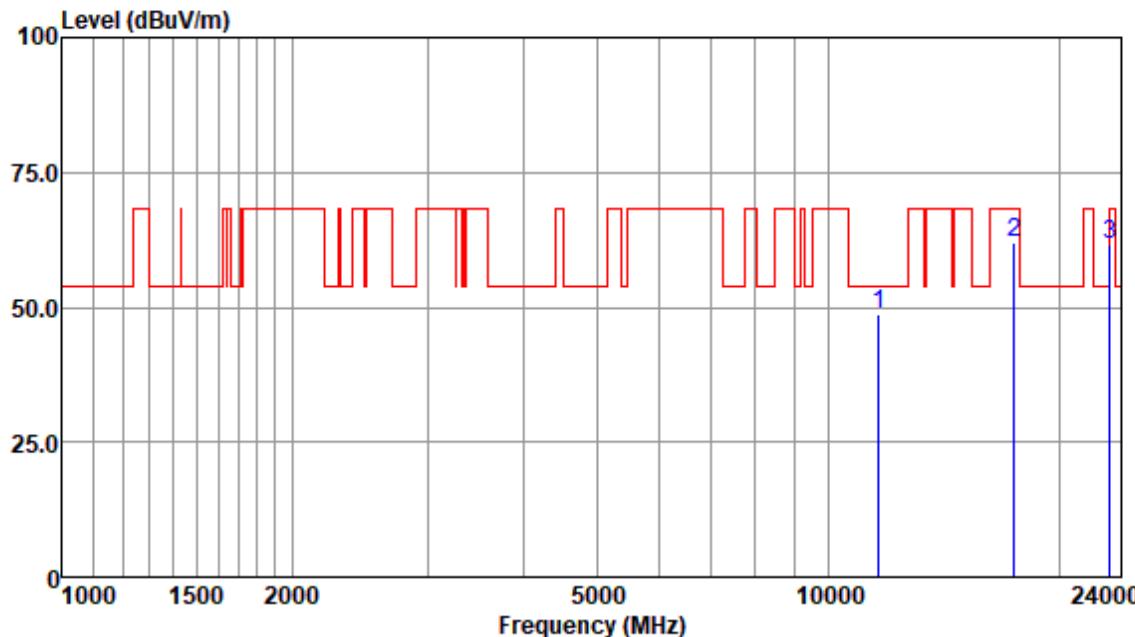
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11590.00 | 41.40 | 35.78 | 7.48 | 36.09 | 48.57 | 54.00 | -5.43 | Peak |
| 17385.00 | 46.65 | 41.12 | 10.39 | 36.31 | 61.85 | 68.20 | -6.35 | Peak |
| 23180.00 | 39.89 | 44.62 | 13.12 | 36.16 | 61.47 | 68.20 | -6.73 | Peak |

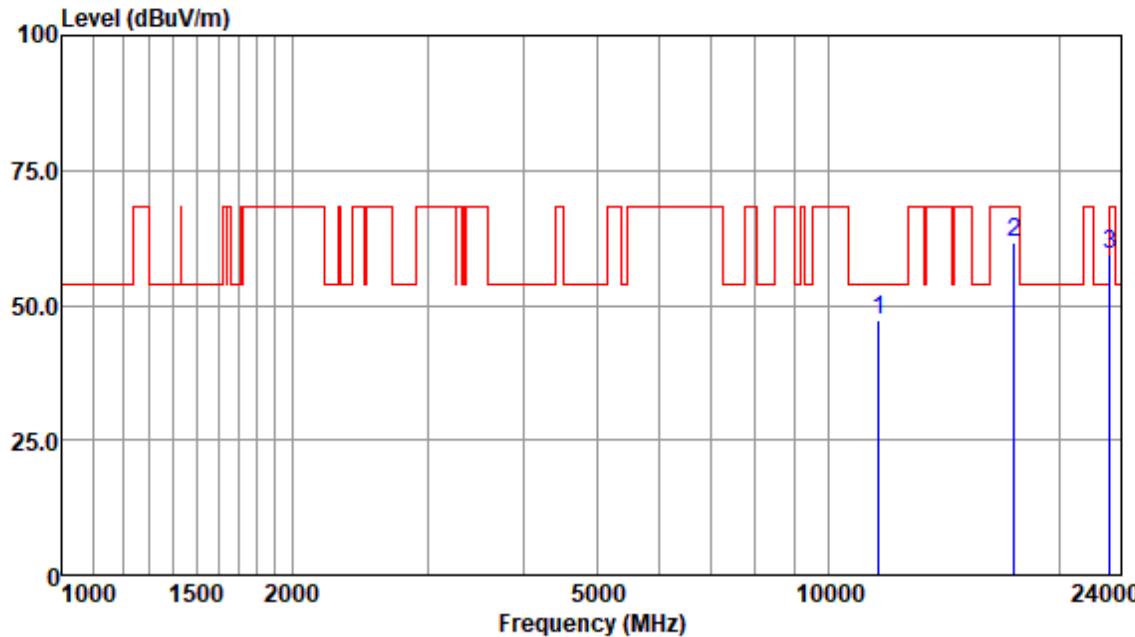
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11590.00 | 39.98 | 35.78 | 7.48 | 36.09 | 47.15 | 54.00 | -6.85 | Peak |
| 17385.00 | 46.39 | 41.12 | 10.39 | 36.31 | 61.59 | 68.20 | -6.61 | Peak |
| 23180.00 | 37.98 | 44.62 | 13.12 | 36.16 | 59.56 | 68.20 | -8.64 | Peak |

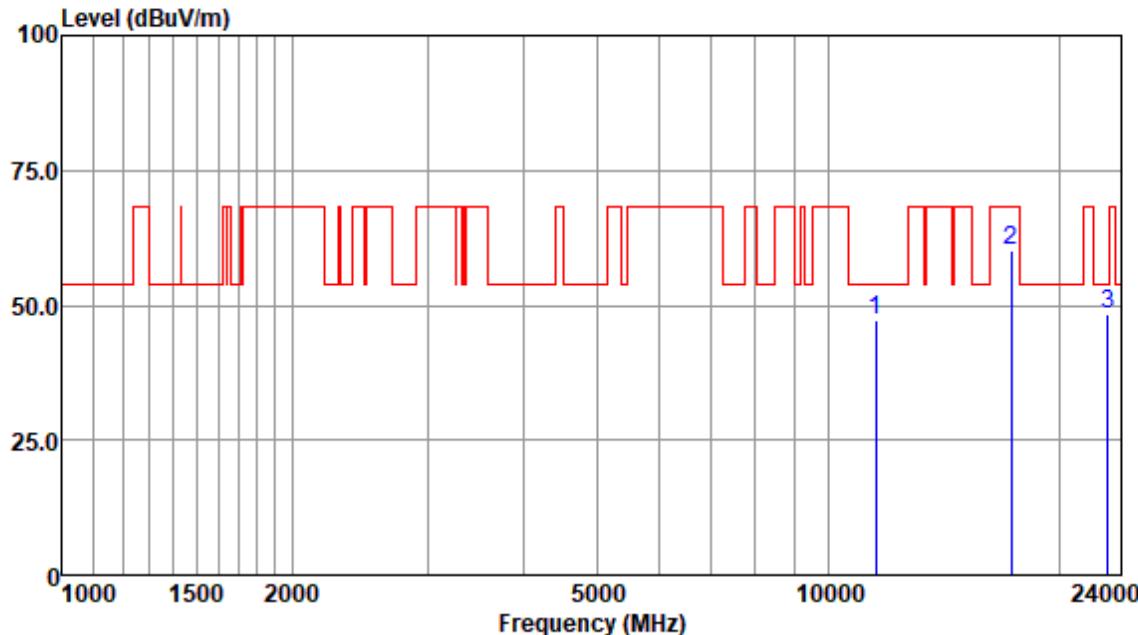
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11510.00 | 39.86 | 35.78 | 7.40 | 35.95 | 47.09 | 54.00 | -6.91 | Peak |
| 17265.00 | 45.49 | 40.60 | 10.19 | 36.14 | 60.14 | 68.20 | -8.06 | Peak |
| 23020.00 | 26.85 | 44.55 | 13.05 | 36.16 | 48.29 | 54.00 | -5.71 | Peak |

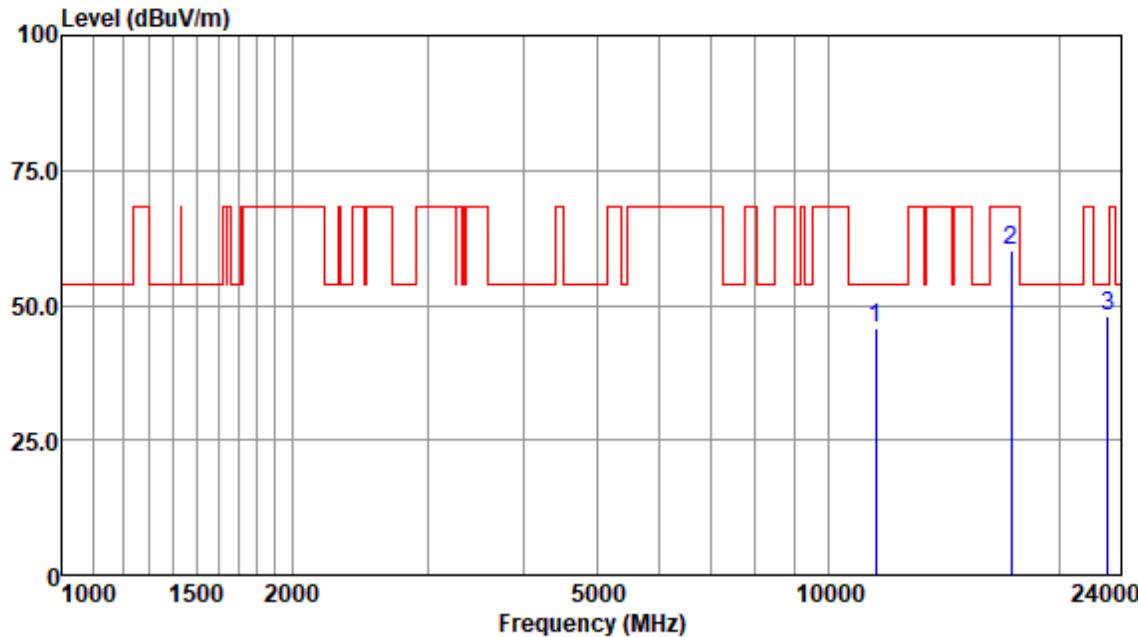
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11510.00 | 38.70 | 35.78 | 7.40 | 35.95 | 45.93 | 54.00 | -8.07 | Peak |
| 17265.00 | 45.49 | 40.60 | 10.19 | 36.14 | 60.14 | 68.20 | -8.06 | Peak |
| 23020.00 | 26.41 | 44.55 | 13.05 | 36.16 | 47.85 | 54.00 | -6.15 | Peak |

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

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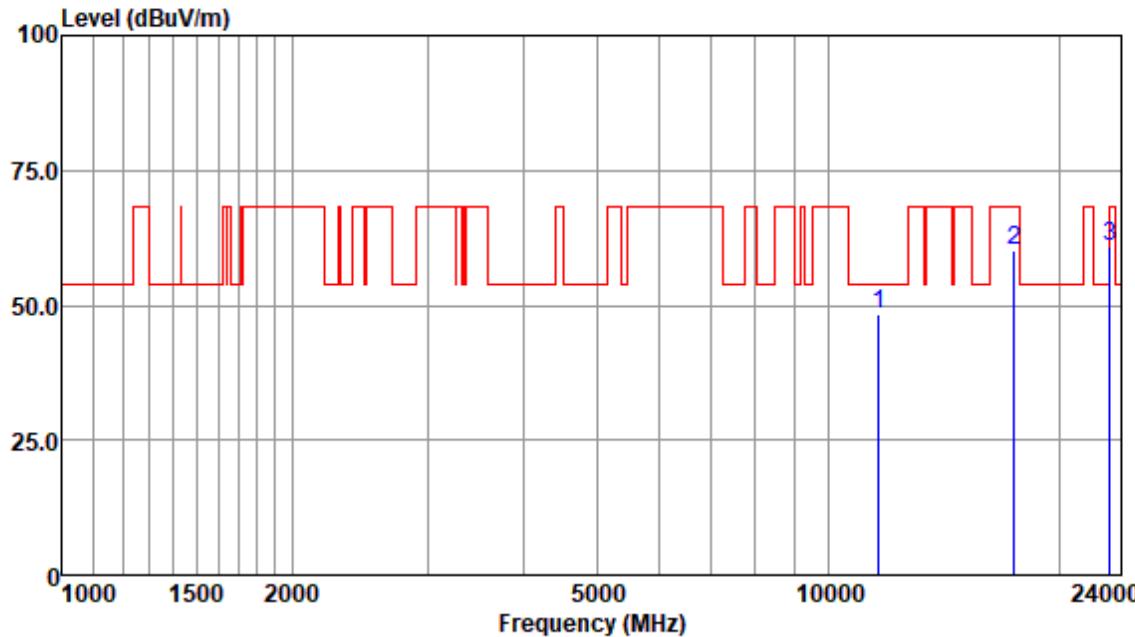
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11590.00 | 41.05 | 35.78 | 7.48 | 36.09 | 48.22 | 54.00 | -5.78 | Peak |
| 17385.00 | 45.13 | 41.12 | 10.39 | 36.31 | 60.33 | 68.20 | -7.87 | Peak |
| 23180.00 | 39.23 | 44.62 | 13.12 | 36.16 | 60.81 | 68.20 | -7.39 | Peak |

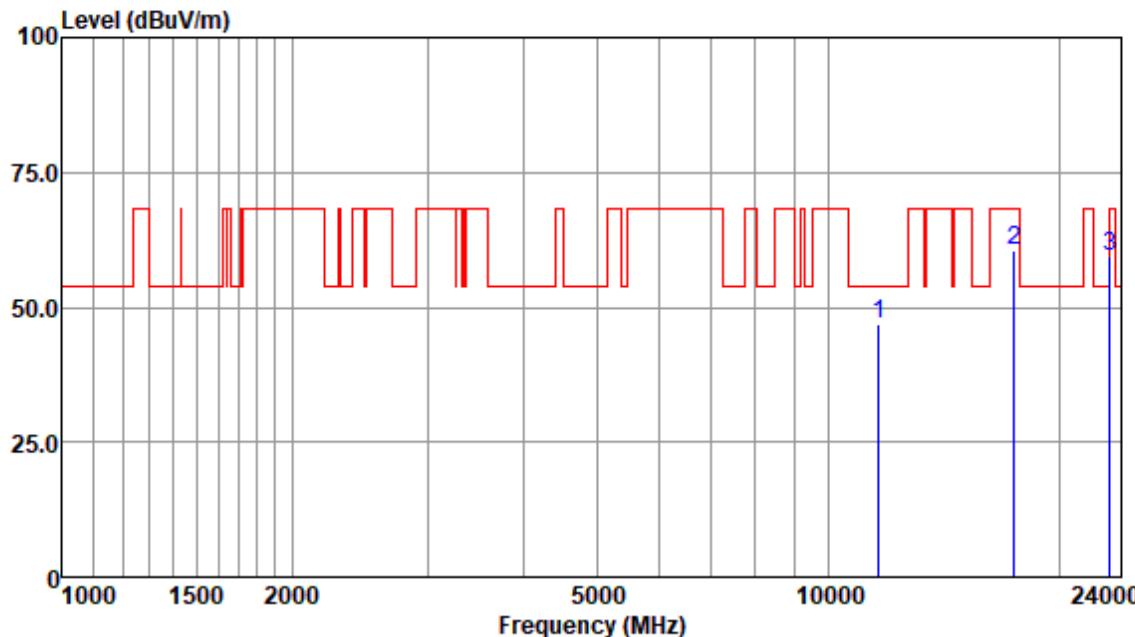
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11590.00 | 39.67 | 35.78 | 7.48 | 36.09 | 46.84 | 54.00 | -7.16 | Peak |
| 17385.00 | 45.33 | 41.12 | 10.39 | 36.31 | 60.53 | 68.20 | -7.67 | Peak |
| 23180.00 | 37.73 | 44.62 | 13.12 | 36.16 | 59.31 | 68.20 | -8.89 | Peak |

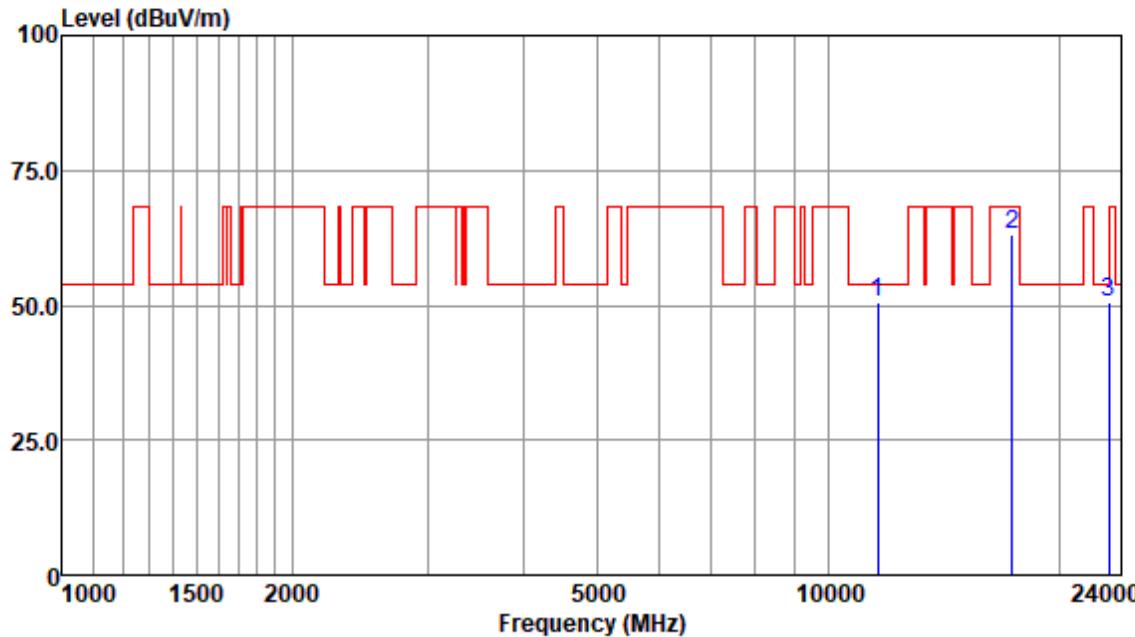
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11550.00 | 43.26 | 35.78 | 7.44 | 36.02 | 50.46 | 54.00 | -3.54 | Peak |
| 17325.00 | 48.46 | 40.77 | 10.25 | 36.20 | 63.28 | 68.20 | -4.92 | Peak |
| 23100.00 | 28.93 | 44.59 | 13.08 | 36.16 | 50.44 | 54.00 | -3.56 | Peak |

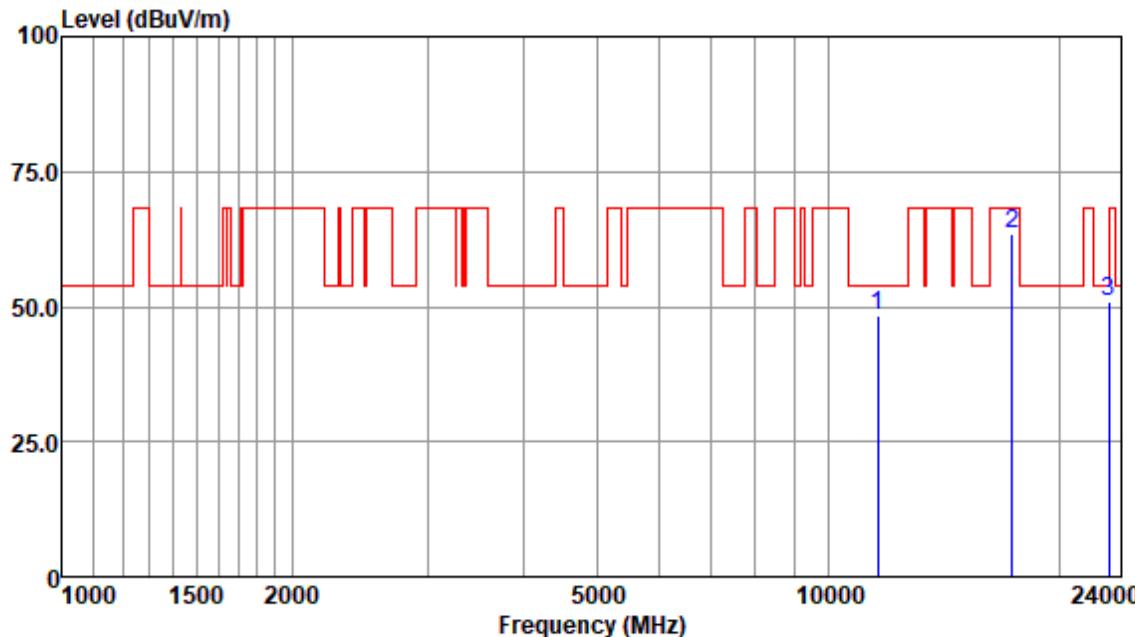
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 11550.00 | 40.96 | 35.78 | 7.44 | 36.02 | 48.16 | 54.00 | -5.84 | Peak |
| 17325.00 | 48.82 | 40.77 | 10.25 | 36.20 | 63.64 | 68.20 | -4.56 | Peak |
| 23100.00 | 29.43 | 44.59 | 13.08 | 36.16 | 50.94 | 54.00 | -3.06 | Peak |

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



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7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

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 |

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 19.8 °C

Humidity: 32.1 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of |

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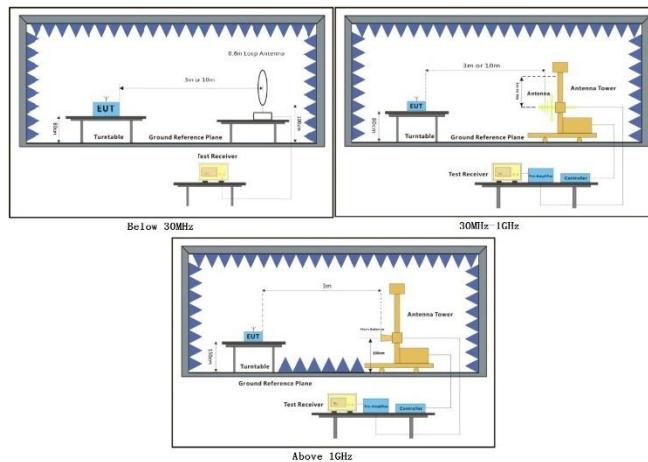
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| | | |
|------------|----|--|
| | | IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.8.3 Test Setup Diagram



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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. 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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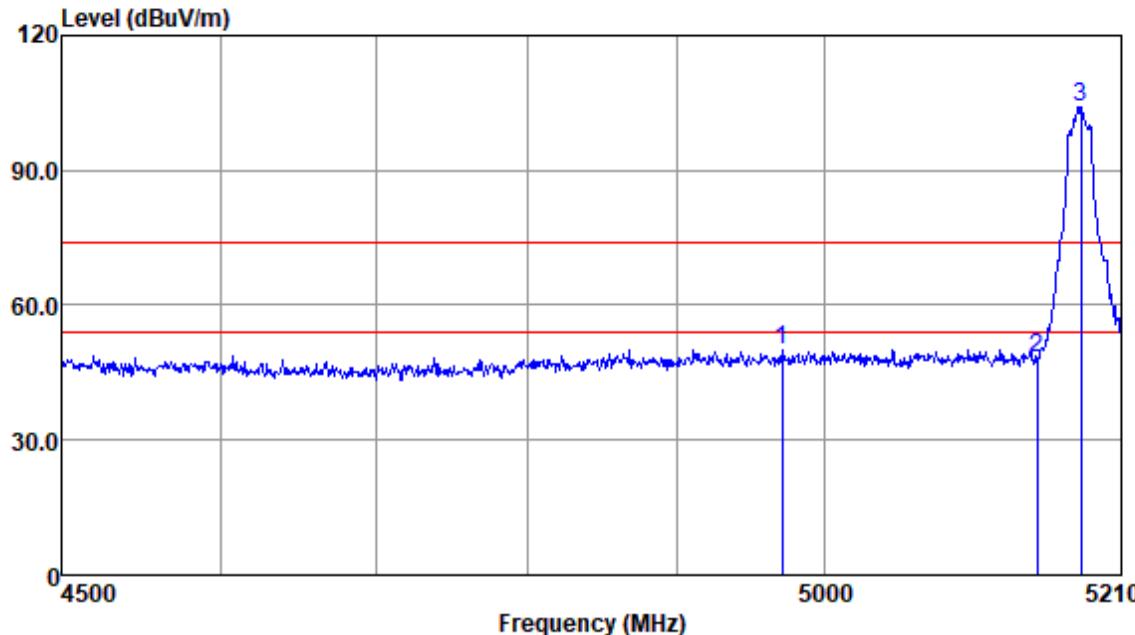
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 4971.39 | 48.36 | 33.66 | 4.91 | 36.83 | 50.10 | 74.00 | -23.90 | Peak |
| 5150.00 | 46.68 | 33.78 | 4.78 | 36.88 | 48.36 | 74.00 | -25.64 | Peak |
| 5181.08 | 102.28 | 33.87 | 4.76 | 36.89 | 104.02 | 74.00 | 30.02 | Peak |

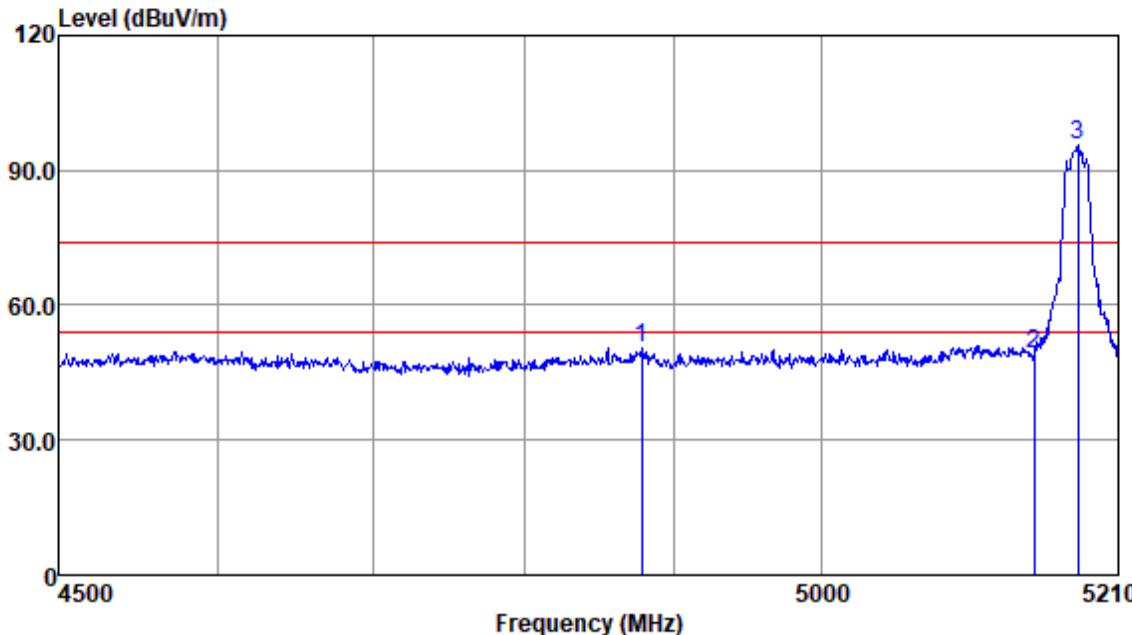
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 4877.60 | 48.93 | 33.66 | 4.73 | 36.81 | 50.51 | 74.00 | -23.49 | Peak |
| 5150.00 | 47.47 | 33.78 | 4.78 | 36.88 | 49.15 | 74.00 | -24.85 | Peak |
| 5181.08 | 94.00 | 33.87 | 4.76 | 36.89 | 95.74 | 74.00 | 21.74 | Peak |

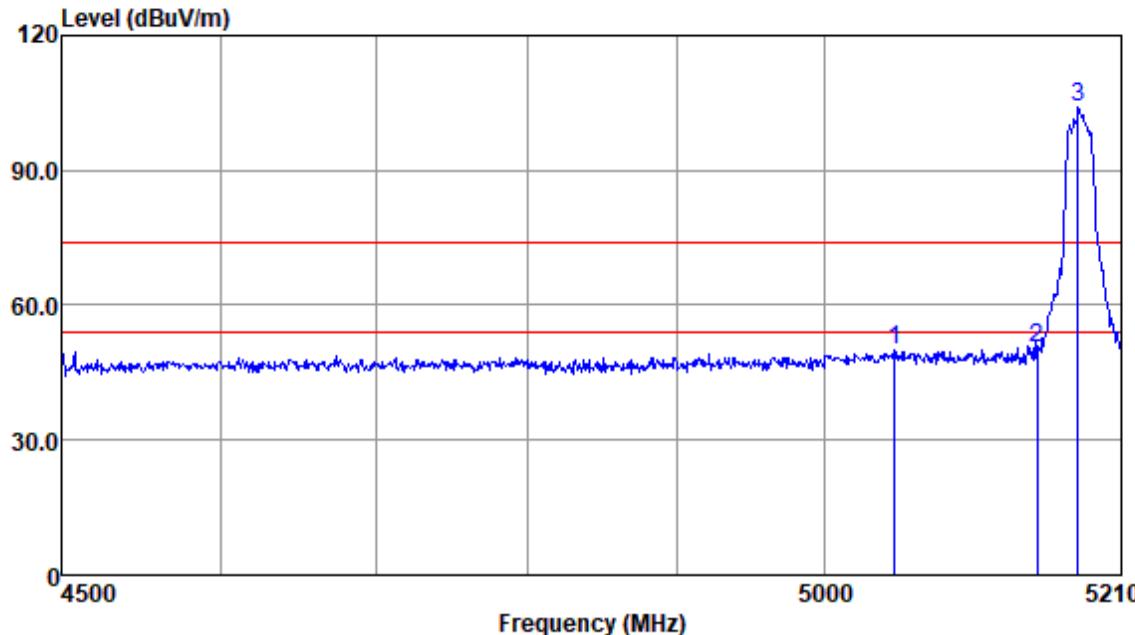
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5049.19 | 48.15 | 33.69 | 4.86 | 36.85 | 49.85 | 74.00 | -24.15 | Peak |
| 5150.00 | 48.86 | 33.78 | 4.78 | 36.88 | 50.54 | 74.00 | -23.46 | Peak |
| 5178.80 | 102.12 | 33.87 | 4.76 | 36.89 | 103.86 | 74.00 | 29.86 | Peak |

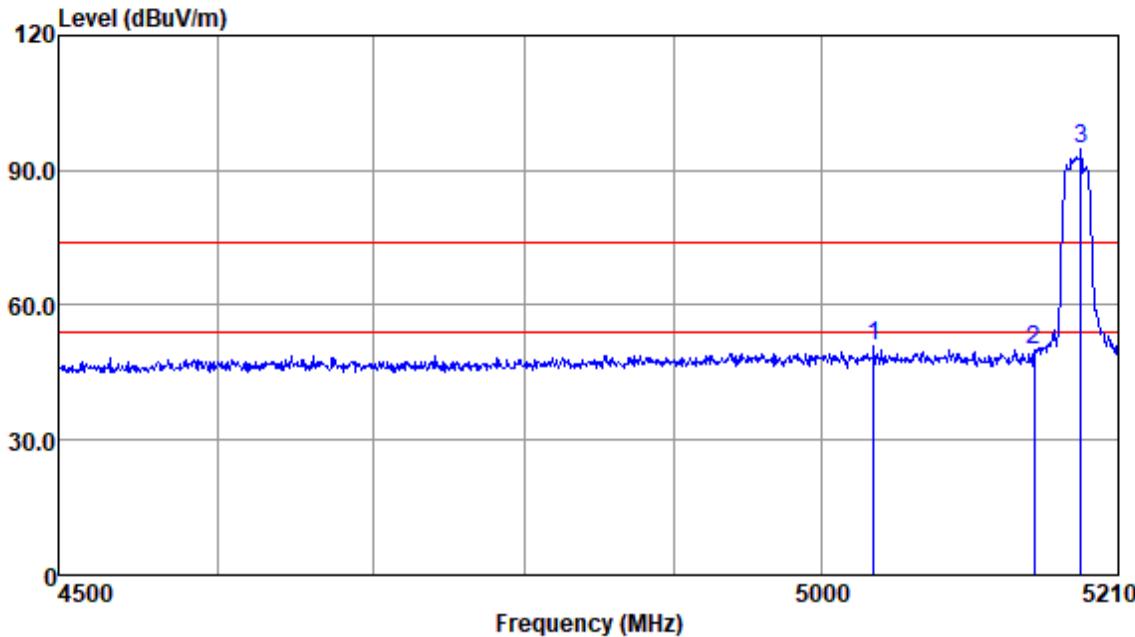
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5036.63 | 49.28 | 33.69 | 4.87 | 36.85 | 50.99 | 74.00 | -23.01 | Peak |
| 5150.00 | 48.31 | 33.78 | 4.78 | 36.88 | 49.99 | 74.00 | -24.01 | Peak |
| 5183.35 | 93.15 | 33.87 | 4.76 | 36.89 | 94.89 | 74.00 | 20.89 | Peak |

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

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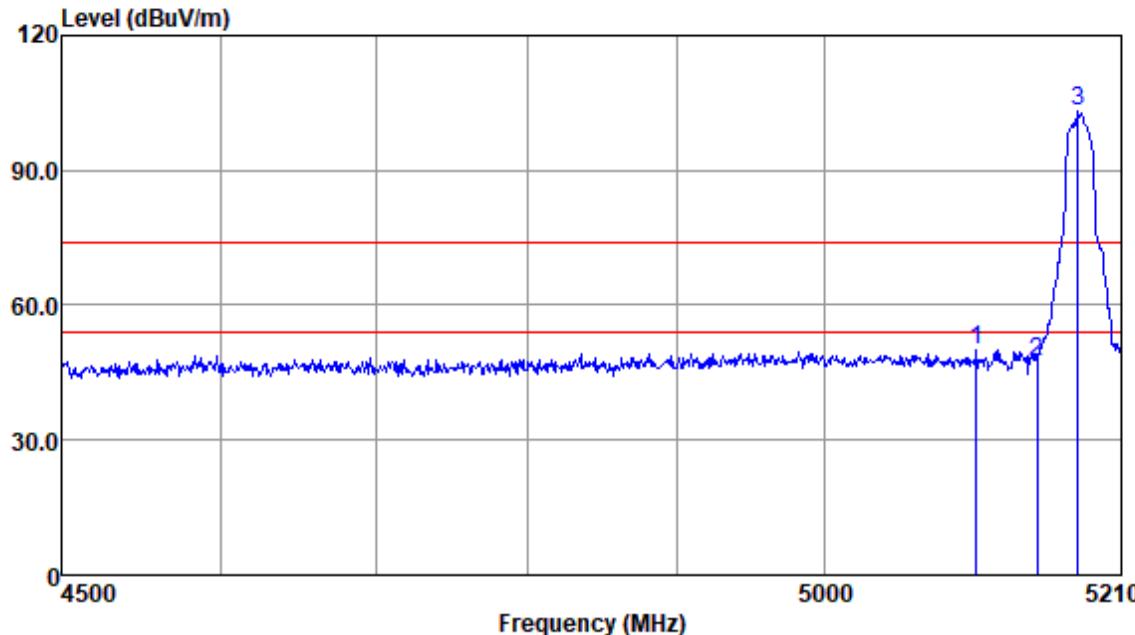
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5106.47 | 48.46 | 33.67 | 4.81 | 36.87 | 50.07 | 74.00 | -23.93 | Peak |
| 5150.00 | 45.88 | 33.78 | 4.78 | 36.88 | 47.56 | 74.00 | -26.44 | Peak |
| 5178.80 | 101.51 | 33.87 | 4.76 | 36.89 | 103.25 | 74.00 | 29.25 | Peak |

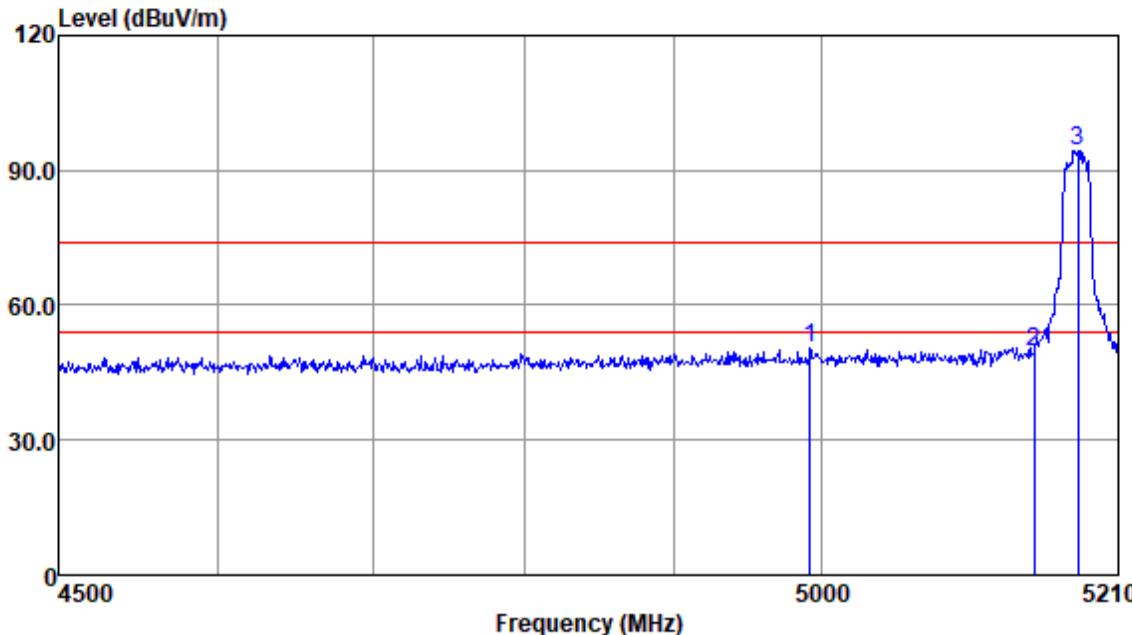
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4992.55 | 48.85 | 33.67 | 4.90 | 36.84 | 50.58 | 74.00 | -23.42 | Peak |
| 5150.00 | 48.08 | 33.78 | 4.78 | 36.88 | 49.76 | 74.00 | -24.24 | Peak |
| 5181.08 | 92.68 | 33.87 | 4.76 | 36.89 | 94.42 | 74.00 | 20.42 | Peak |

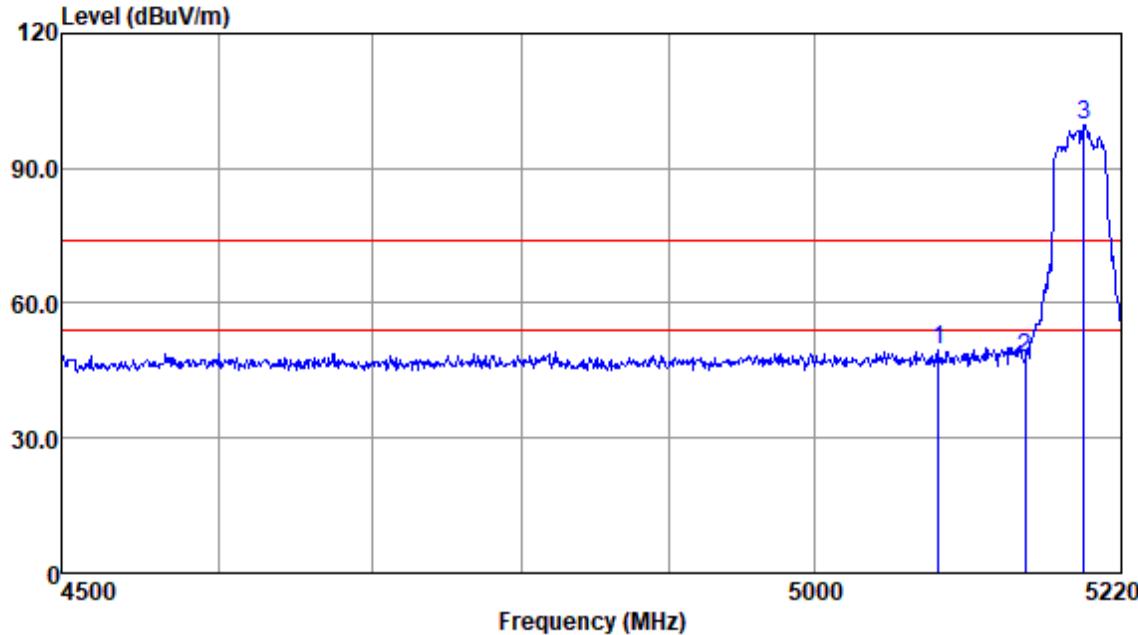
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5088.43 | 47.87 | 33.67 | 4.83 | 36.87 | 49.50 | 74.00 | -24.50 | Peak |
| 5150.00 | 46.23 | 33.78 | 4.78 | 36.88 | 47.91 | 74.00 | -26.09 | Peak |
| 5192.95 | 97.93 | 33.91 | 4.75 | 36.89 | 99.70 | 74.00 | 25.70 | Peak |

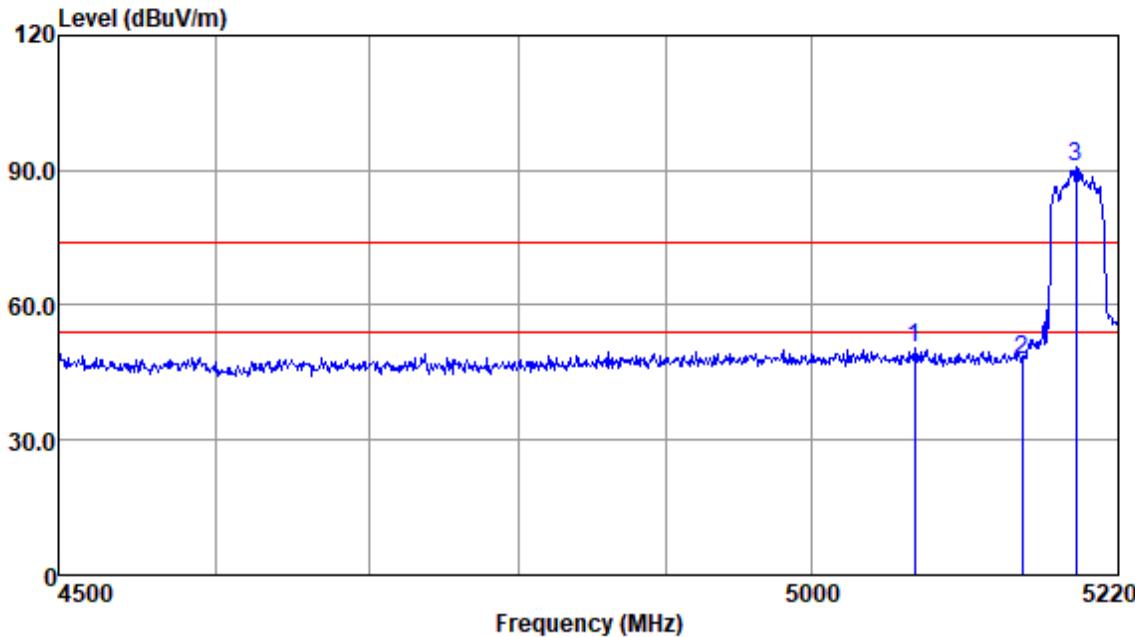
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5073.35 | 48.66 | 33.68 | 4.83 | 36.86 | 50.31 | 74.00 | -23.69 | Peak |
| 5150.00 | 46.05 | 33.78 | 4.78 | 36.88 | 47.73 | 74.00 | -26.27 | Peak |
| 5189.10 | 89.18 | 33.91 | 4.76 | 36.89 | 90.96 | 74.00 | 16.96 | Peak |

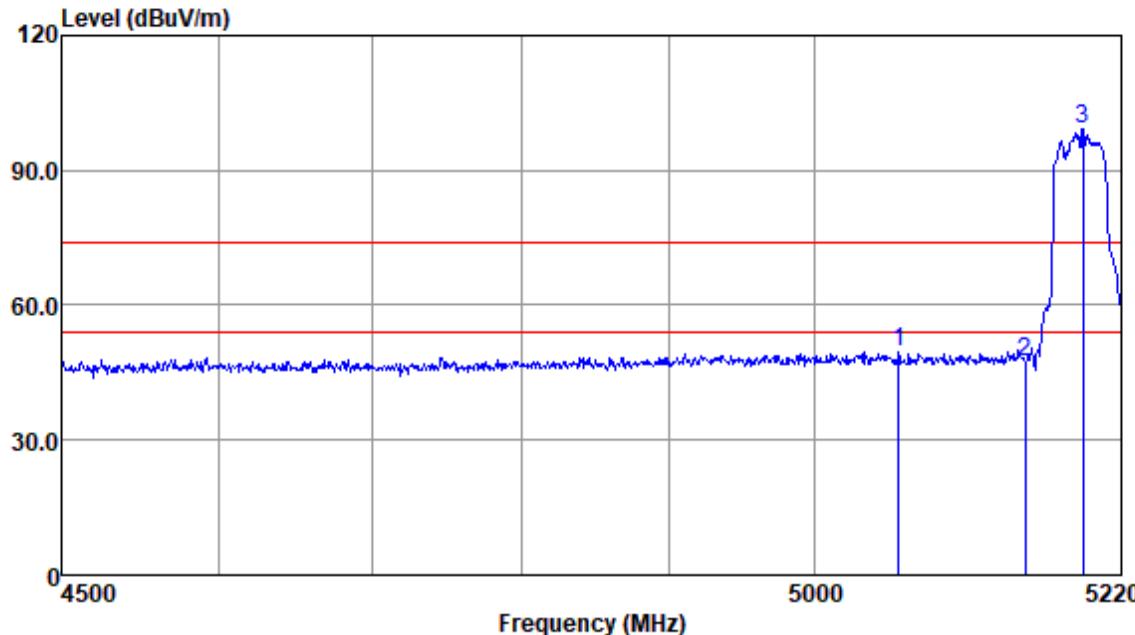
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5059.81 | 47.85 | 33.68 | 4.85 | 36.86 | 49.52 | 74.00 | -24.48 | Peak |
| 5150.00 | 45.71 | 33.78 | 4.78 | 36.88 | 47.39 | 74.00 | -26.61 | Peak |
| 5192.18 | 97.54 | 33.91 | 4.75 | 36.89 | 99.31 | 74.00 | 25.31 | Peak |

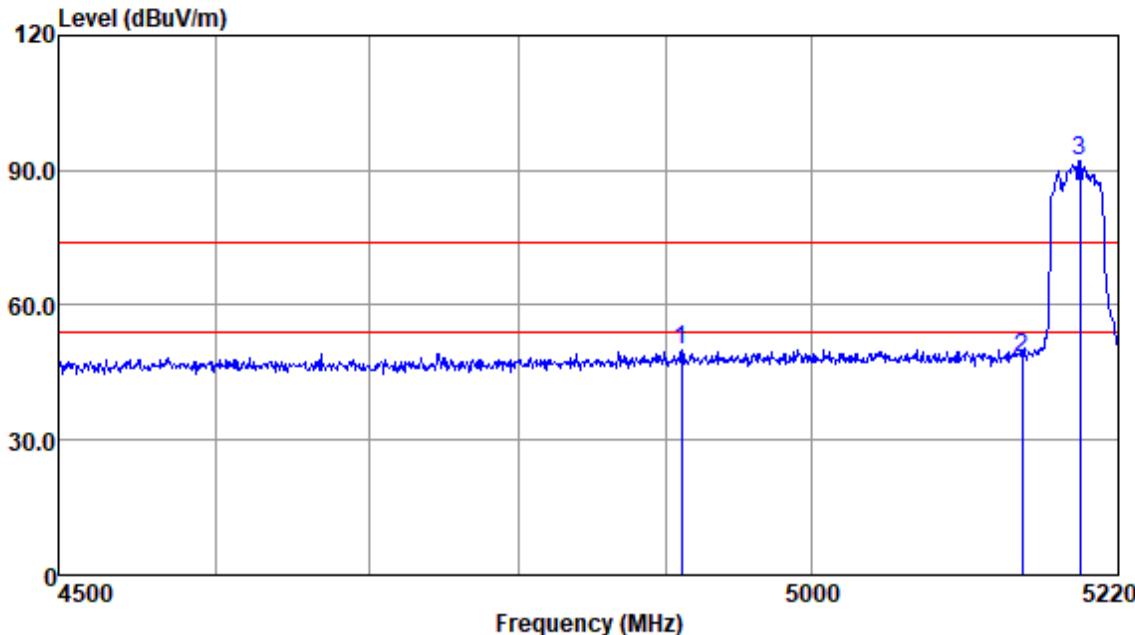
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 4910.37 | 48.45 | 33.65 | 4.83 | 36.82 | 50.11 | 74.00 | -23.89 | Peak |
| 5150.00 | 46.55 | 33.78 | 4.78 | 36.88 | 48.23 | 74.00 | -25.77 | Peak |
| 5192.18 | 90.54 | 33.91 | 4.75 | 36.89 | 92.31 | 74.00 | 18.31 | Peak |

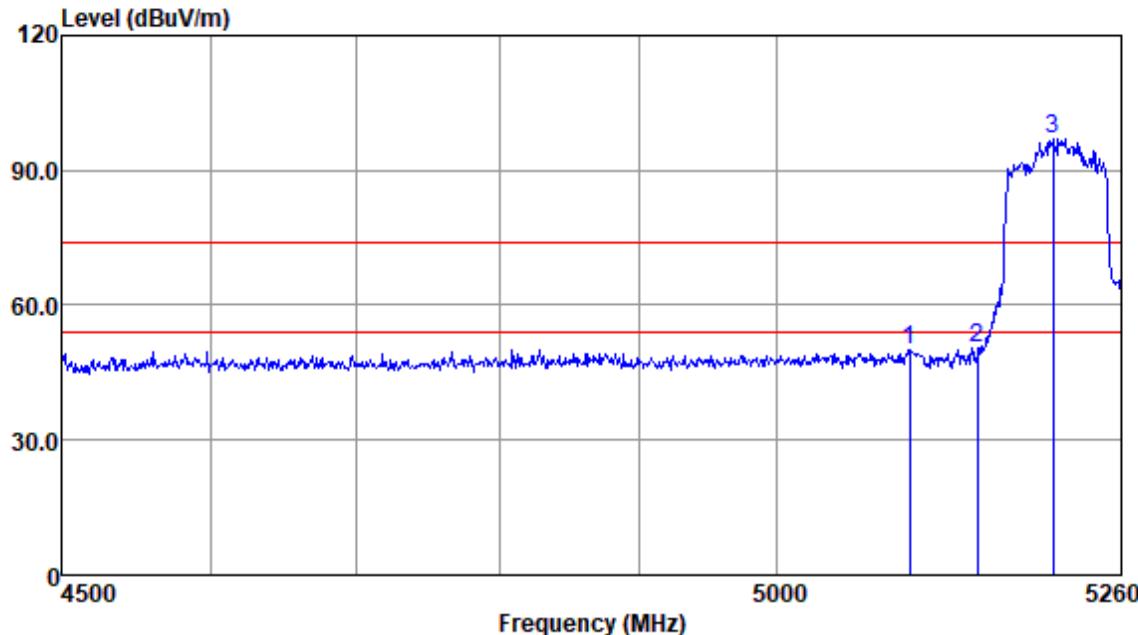
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5098.37 | 48.42 | 33.67 | 4.82 | 36.87 | 50.04 | 74.00 | -23.96 | Peak |
| 5150.00 | 48.90 | 33.78 | 4.78 | 36.88 | 50.58 | 74.00 | -23.42 | Peak |
| 5207.73 | 95.36 | 33.94 | 4.77 | 36.90 | 97.17 | 74.00 | 23.17 | Peak |

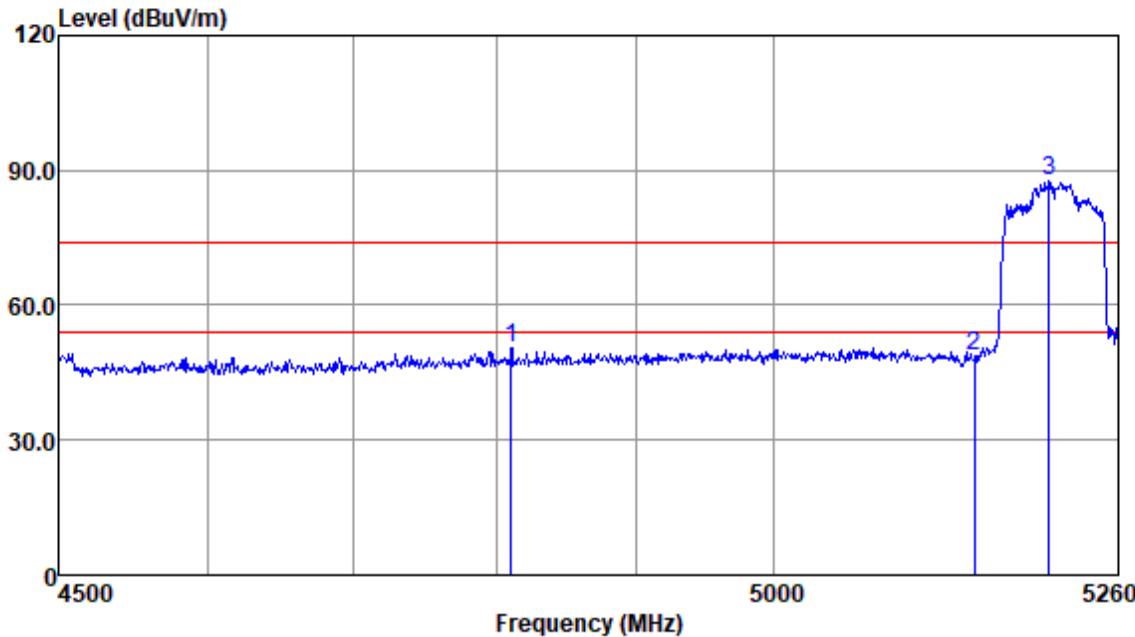
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 4810.07 | 49.25 | 33.57 | 4.53 | 36.79 | 50.56 | 74.00 | -23.44 | Peak |
| 5150.00 | 46.92 | 33.78 | 4.78 | 36.88 | 48.60 | 74.00 | -25.40 | Peak |
| 5206.92 | 85.85 | 33.94 | 4.75 | 36.90 | 87.64 | 74.00 | 13.64 | Peak |

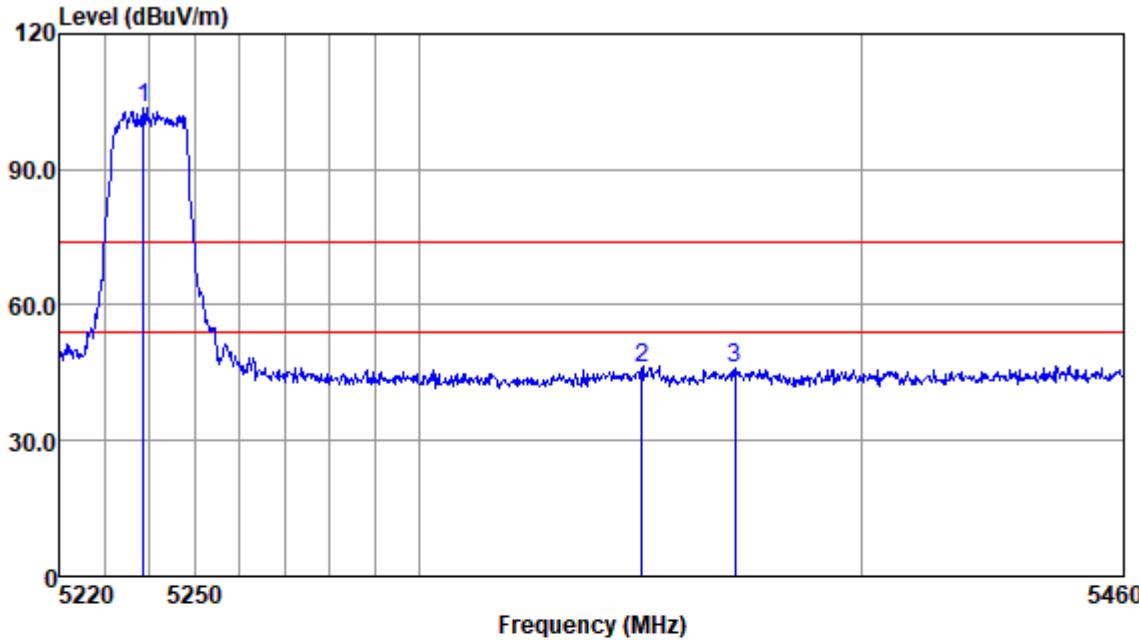
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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

**Antenna Polarity :HORIZONTAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5238.57 | 101.79 | 34.01 | 4.79 | 36.91 | 103.68 | 74.00 | 29.68 | Peak |
| 5350.00 | 43.80 | 34.19 | 4.95 | 36.94 | 46.00 | 74.00 | -28.00 | Peak |
| 5371.15 | 43.76 | 34.29 | 4.98 | 36.95 | 46.08 | 74.00 | -27.92 | Peak |

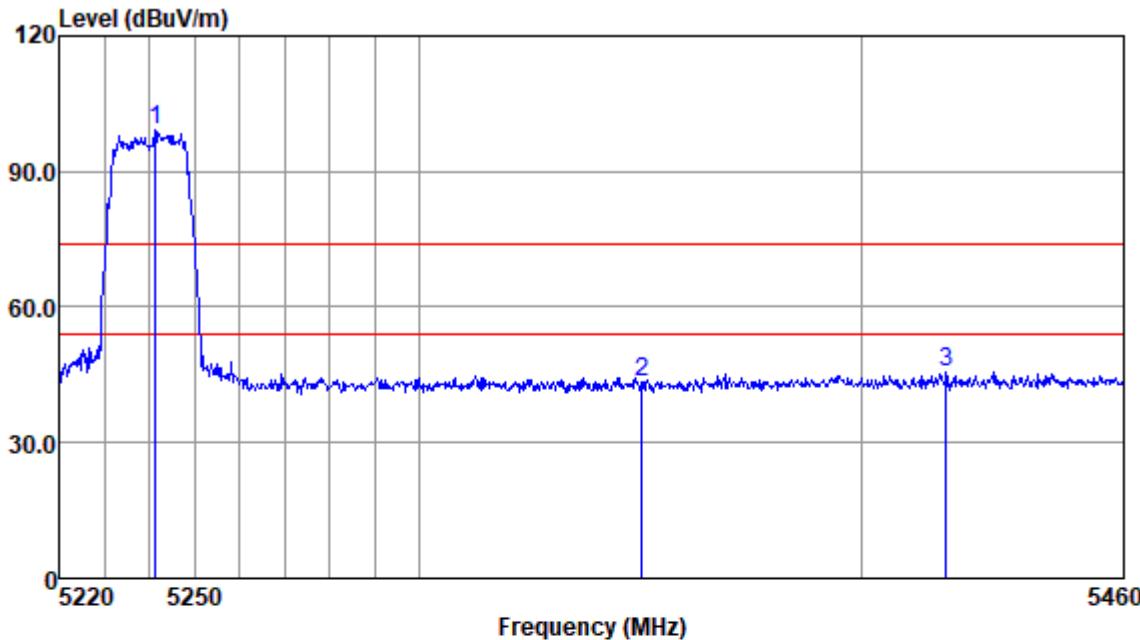
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5241.40 | 97.39 | 34.01 | 4.79 | 36.91 | 99.28 | 74.00 | 25.28 | Peak |
| 5350.00 | 41.14 | 34.19 | 4.95 | 36.94 | 43.34 | 74.00 | -30.66 | Peak |
| 5419.17 | 42.99 | 34.39 | 5.05 | 36.96 | 45.47 | 74.00 | -28.53 | Peak |

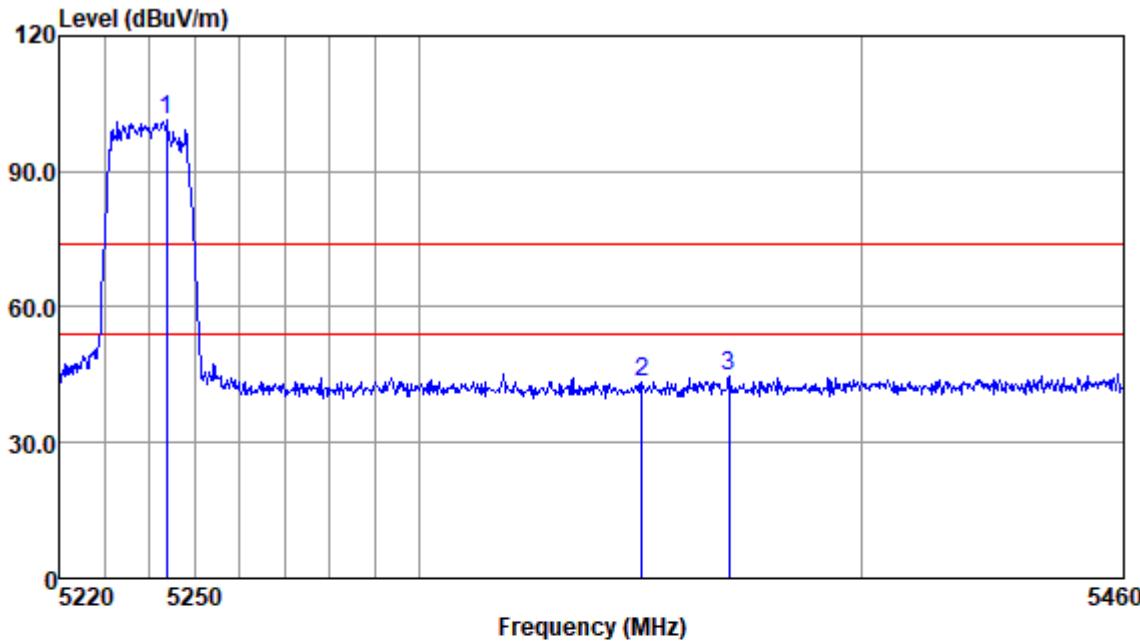
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5243.75 | 99.46 | 34.01 | 4.82 | 36.91 | 101.38 | 74.00 | 27.38 | Peak |
| 5350.00 | 41.39 | 34.19 | 4.95 | 36.94 | 43.59 | 74.00 | -30.41 | Peak |
| 5369.70 | 42.20 | 34.29 | 4.98 | 36.95 | 44.52 | 74.00 | -29.48 | Peak |

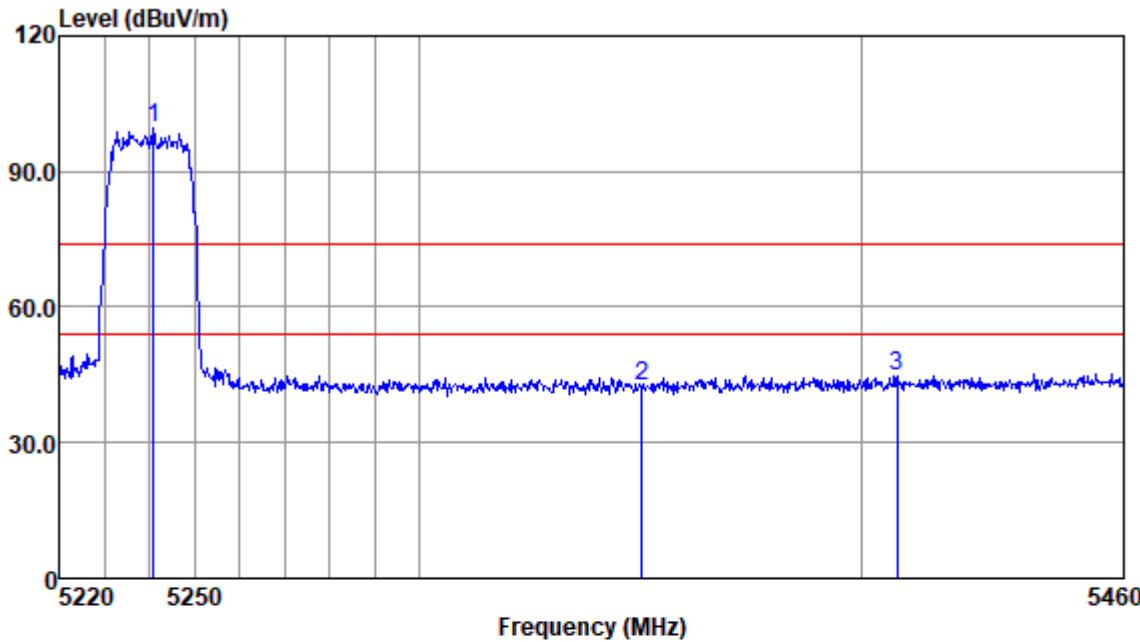
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5240.93 | 97.61 | 34.01 | 4.79 | 36.91 | 99.50 | 74.00 | 25.50 | Peak |
| 5350.00 | 40.22 | 34.19 | 4.95 | 36.94 | 42.42 | 74.00 | -31.58 | Peak |
| 5407.97 | 42.26 | 34.36 | 5.02 | 36.95 | 44.69 | 74.00 | -29.31 | Peak |

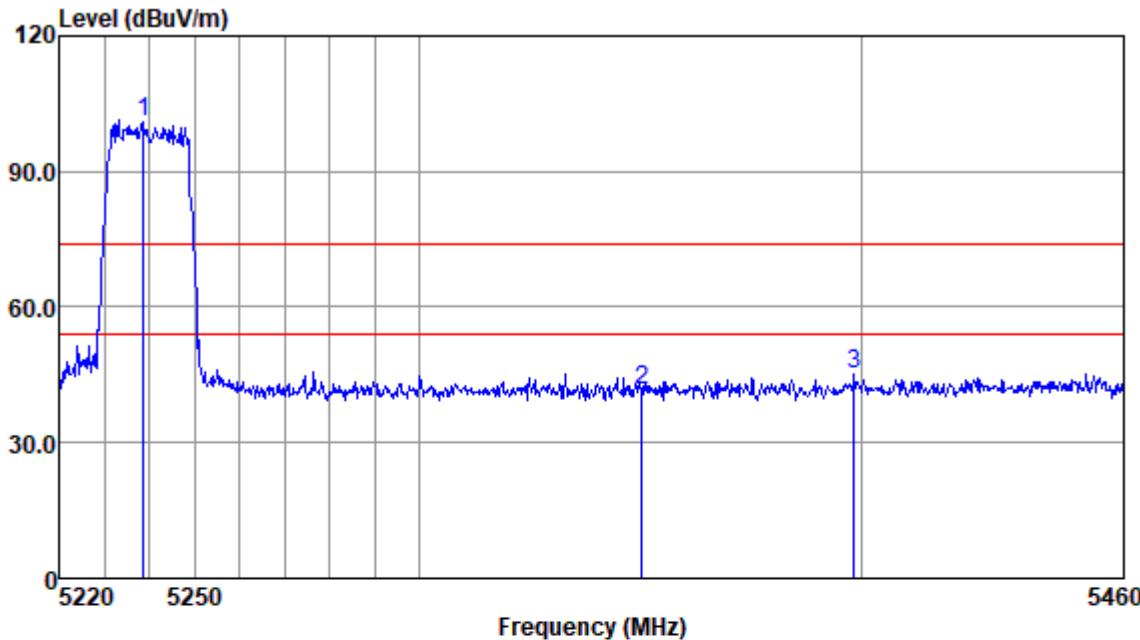
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5238.57 | 99.08 | 34.01 | 4.79 | 36.91 | 100.97 | 74.00 | 26.97 | Peak |
| 5350.00 | 39.51 | 34.19 | 4.95 | 36.94 | 41.71 | 74.00 | -32.29 | Peak |
| 5398.26 | 42.74 | 34.34 | 5.02 | 36.95 | 45.15 | 74.00 | -28.85 | Peak |

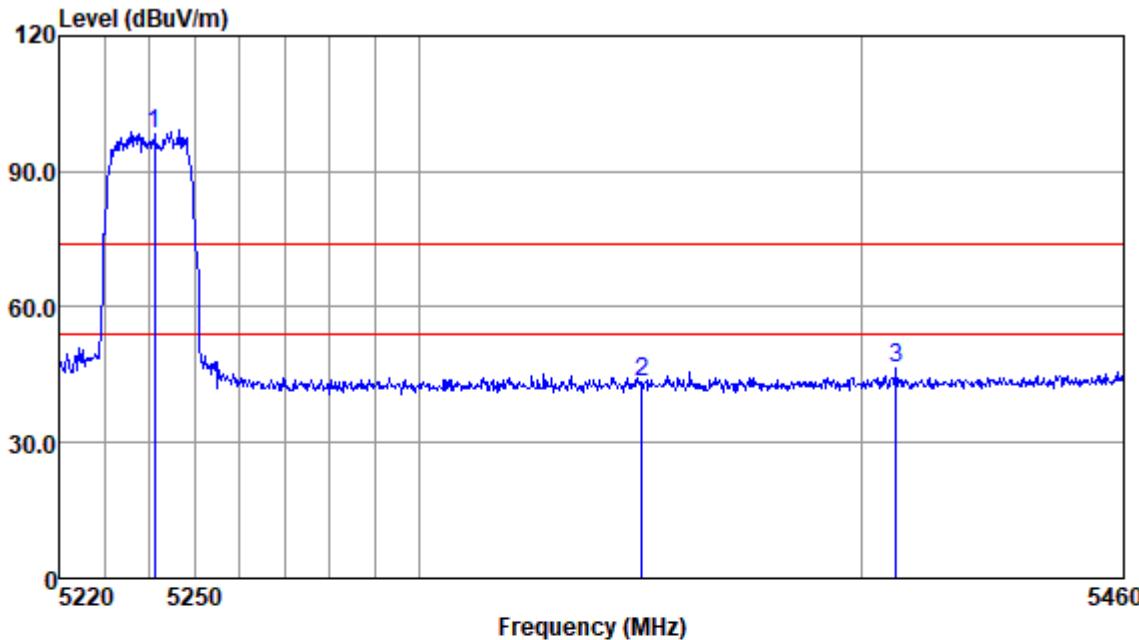
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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



Antenna Polarity :VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5241.16 | 96.37 | 34.01 | 4.79 | 36.91 | 98.26 | 74.00 | 24.26 | Peak |
| 5350.00 | 41.36 | 34.19 | 4.95 | 36.94 | 43.56 | 74.00 | -30.44 | Peak |
| 5407.73 | 44.01 | 34.36 | 5.02 | 36.95 | 46.44 | 74.00 | -27.56 | Peak |

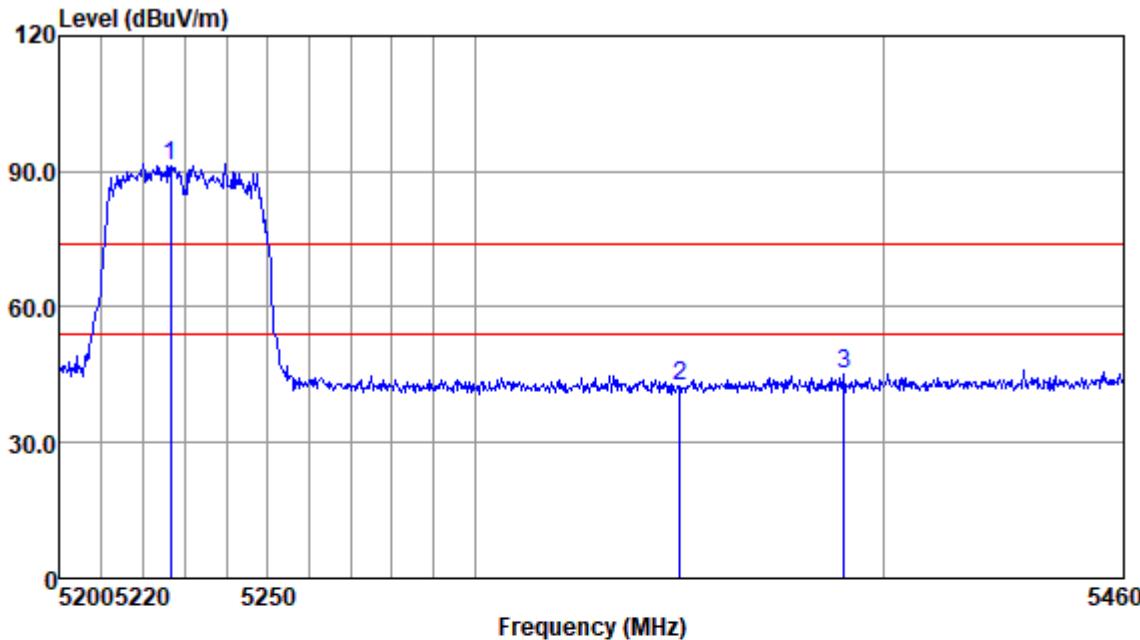
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5226.71 | 89.50 | 33.97 | 4.79 | 36.90 | 91.36 | 74.00 | 17.36 | Peak |
| 5350.00 | 40.38 | 34.19 | 4.95 | 36.94 | 42.58 | 74.00 | -31.42 | Peak |
| 5390.39 | 42.97 | 34.34 | 5.00 | 36.95 | 45.36 | 74.00 | -28.64 | Peak |

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

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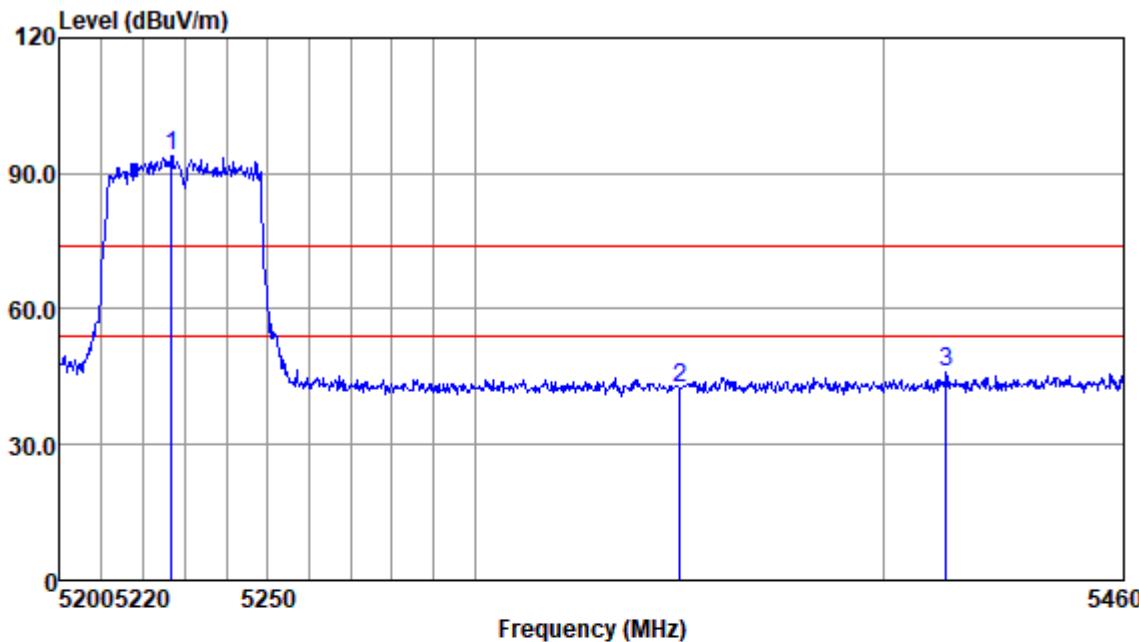


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

| Read Freq | Antenna Level | Cable Factor | Preamp Loss | Emission Factor | Limit Level | Line Limit | Over Limit | Remark |
|--------------|------------------|-----------------|----------------|--------------------|----------------|---------------|---------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5226.96 | 92.11 | 33.97 | 4.79 | 36.90 | 93.97 | 74.00 | 19.97 | Peak |
| 5350.00 | 40.13 | 34.19 | 4.95 | 36.94 | 42.33 | 74.00 | -31.67 | Peak |
| 5415.69 | 43.44 | 34.36 | 5.05 | 36.95 | 45.90 | 74.00 | -28.10 | Peak |

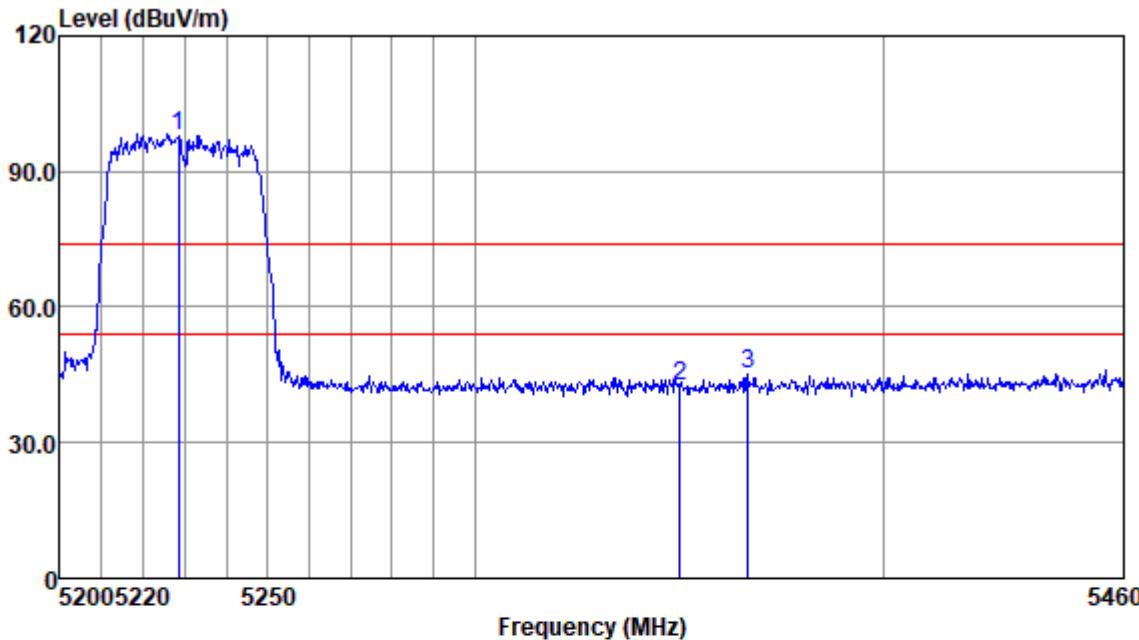
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5228.49 | 96.12 | 33.97 | 4.79 | 36.90 | 97.98 | 74.00 | 23.98 | Peak |
| 5350.00 | 40.41 | 34.19 | 4.95 | 36.94 | 42.61 | 74.00 | -31.39 | Peak |
| 5366.77 | 43.03 | 34.24 | 4.98 | 36.94 | 45.31 | 74.00 | -28.69 | Peak |

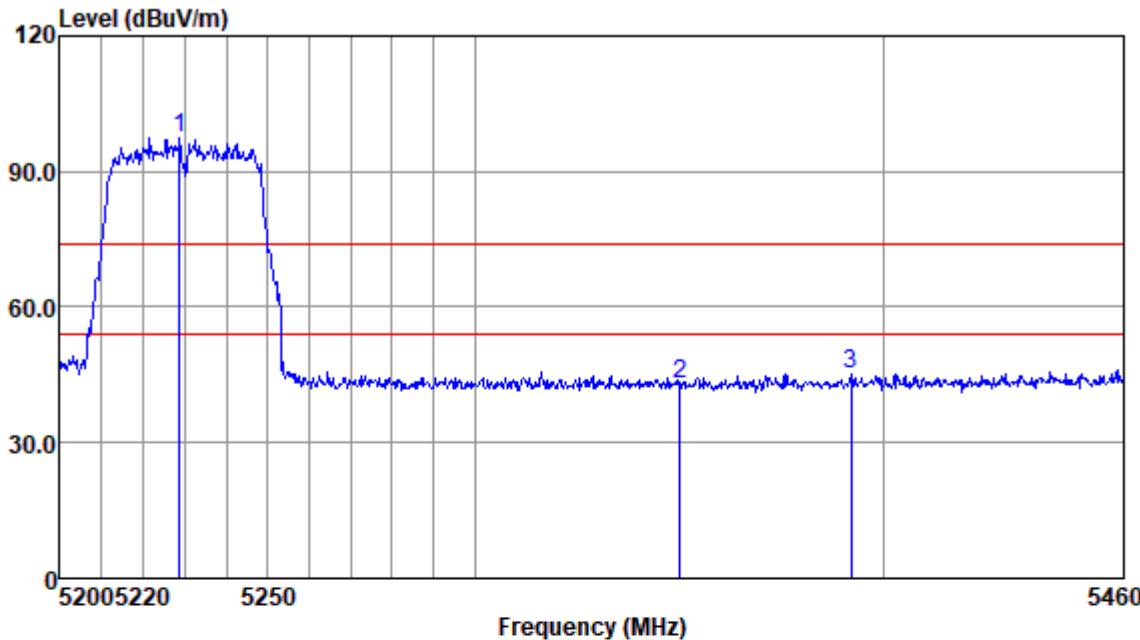
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5228.75 | 95.39 | 33.97 | 4.79 | 36.90 | 97.25 | 74.00 | 23.25 | Peak |
| 5350.00 | 40.94 | 34.19 | 4.95 | 36.94 | 43.14 | 74.00 | -30.86 | Peak |
| 5392.23 | 42.96 | 34.34 | 5.00 | 36.95 | 45.35 | 74.00 | -28.65 | Peak |

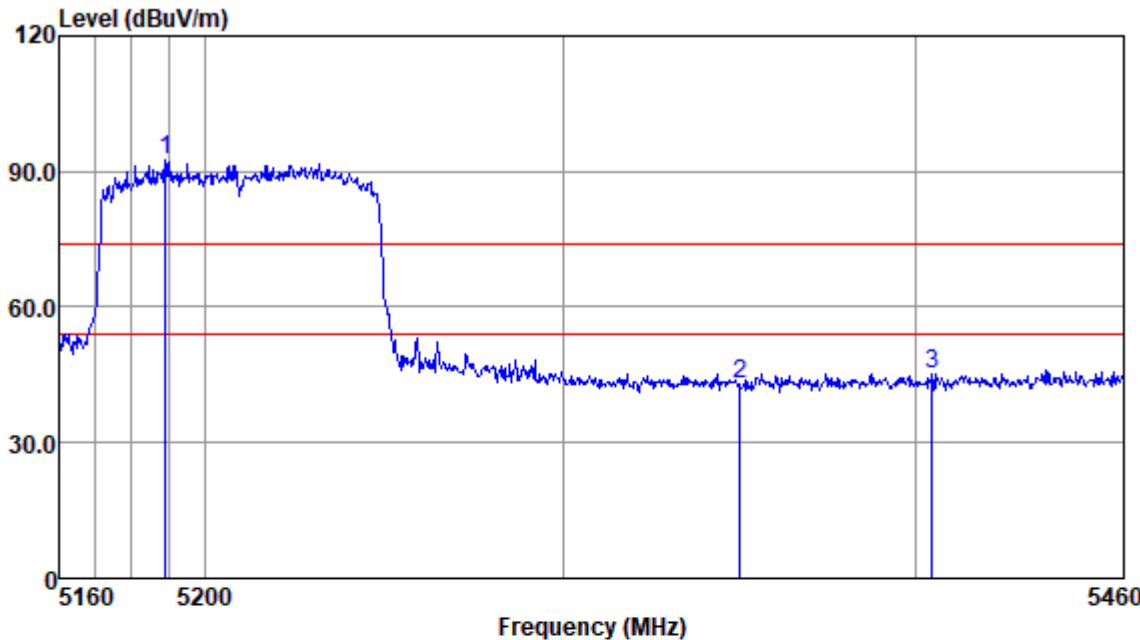
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5189.24 | 90.94 | 33.91 | 4.76 | 36.89 | 92.72 | 74.00 | 18.72 | Peak |
| 5350.00 | 40.68 | 34.19 | 4.95 | 36.94 | 42.88 | 74.00 | -31.12 | Peak |
| 5404.74 | 42.88 | 34.36 | 5.02 | 36.95 | 45.31 | 74.00 | -28.69 | Peak |

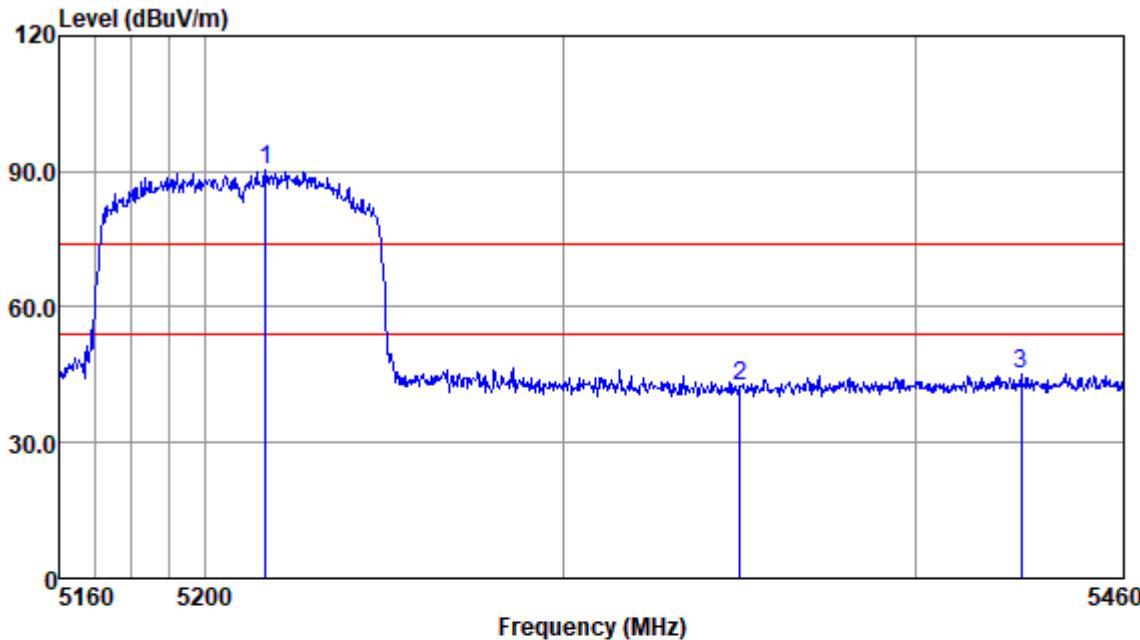
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5216.88 | 88.58 | 33.97 | 4.77 | 36.90 | 90.42 | 74.00 | 16.42 | Peak |
| 5350.00 | 40.23 | 34.19 | 4.95 | 36.94 | 42.43 | 74.00 | -31.57 | Peak |
| 5430.46 | 42.58 | 34.39 | 5.07 | 36.96 | 45.08 | 74.00 | -28.92 | Peak |

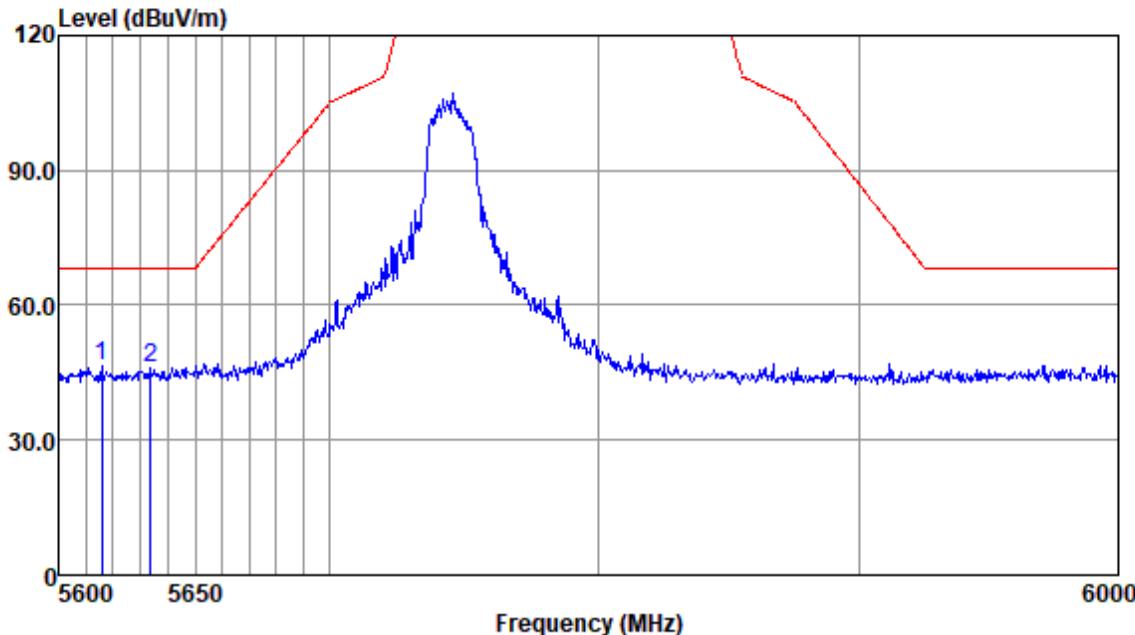
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 5615.86 | 43.30 | 34.52 | 5.80 | 37.00 | 46.62 | 68.20 | -21.58 | Peak |
| 5633.71 | 42.54 | 34.53 | 5.83 | 37.00 | 45.90 | 68.20 | -22.30 | Peak |

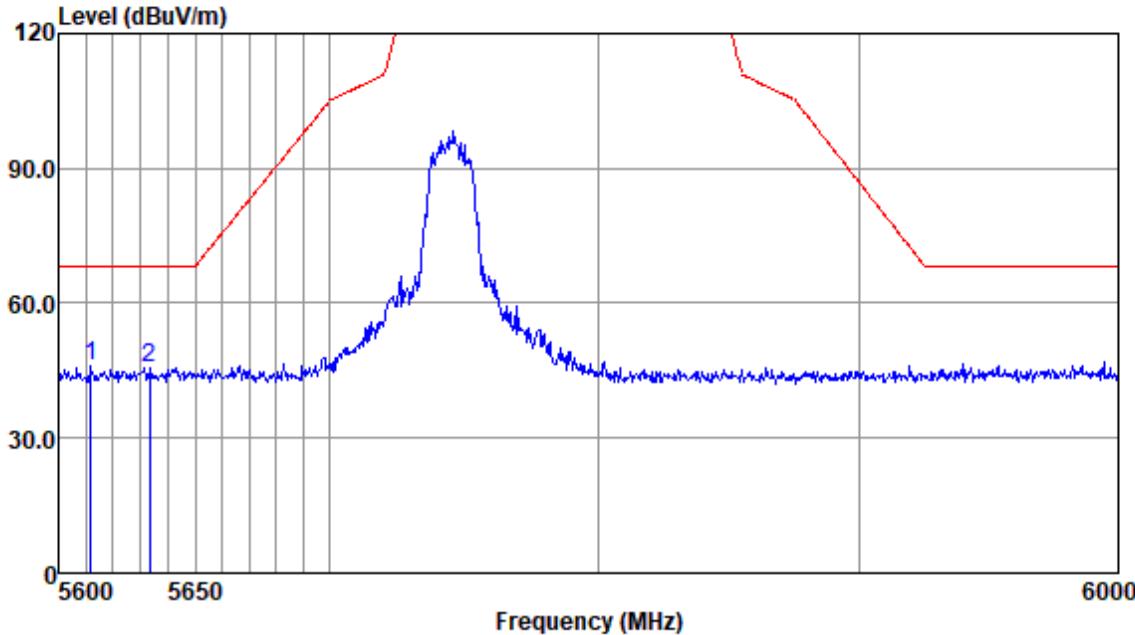
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit | Over Line Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|--------|-----------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5611.99 | 42.92 | 34.52 | 5.78 | 37.00 | 46.22 | 68.20 | -21.98 | Peak |
| 5633.33 | 42.23 | 34.53 | 5.83 | 37.00 | 45.59 | 68.20 | -22.61 | Peak |

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

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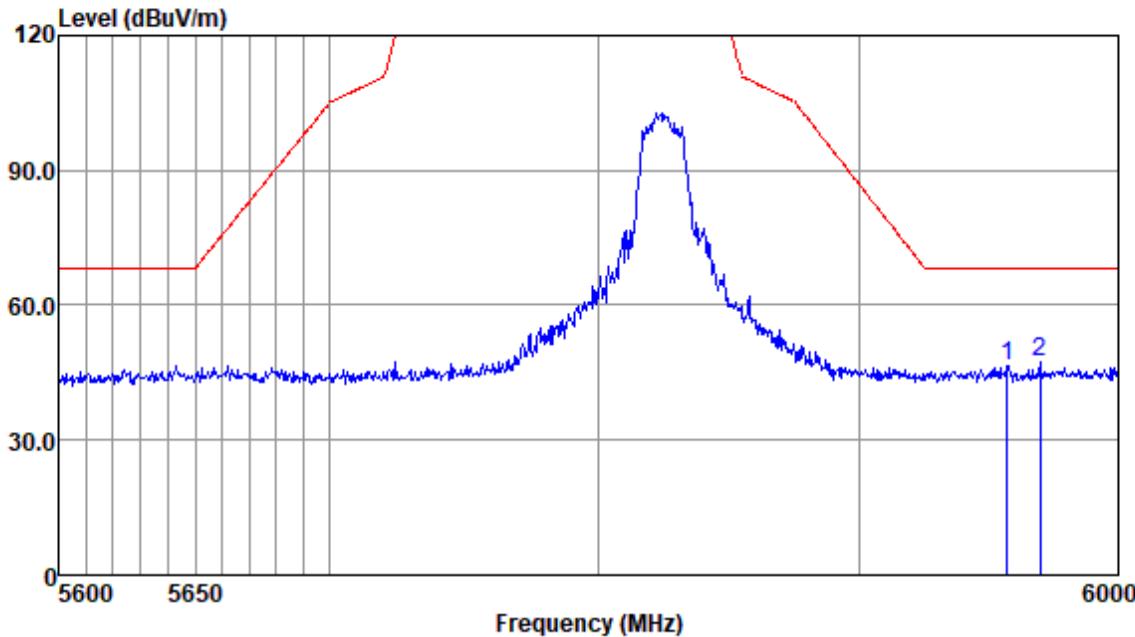


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5956.69 | 42.91 | 34.85 | 5.92 | 37.05 | 46.63 | 68.20 | -21.57 | Peak |
| 5969.45 | 43.47 | 34.90 | 5.92 | 37.05 | 47.24 | 68.20 | -20.96 | Peak |

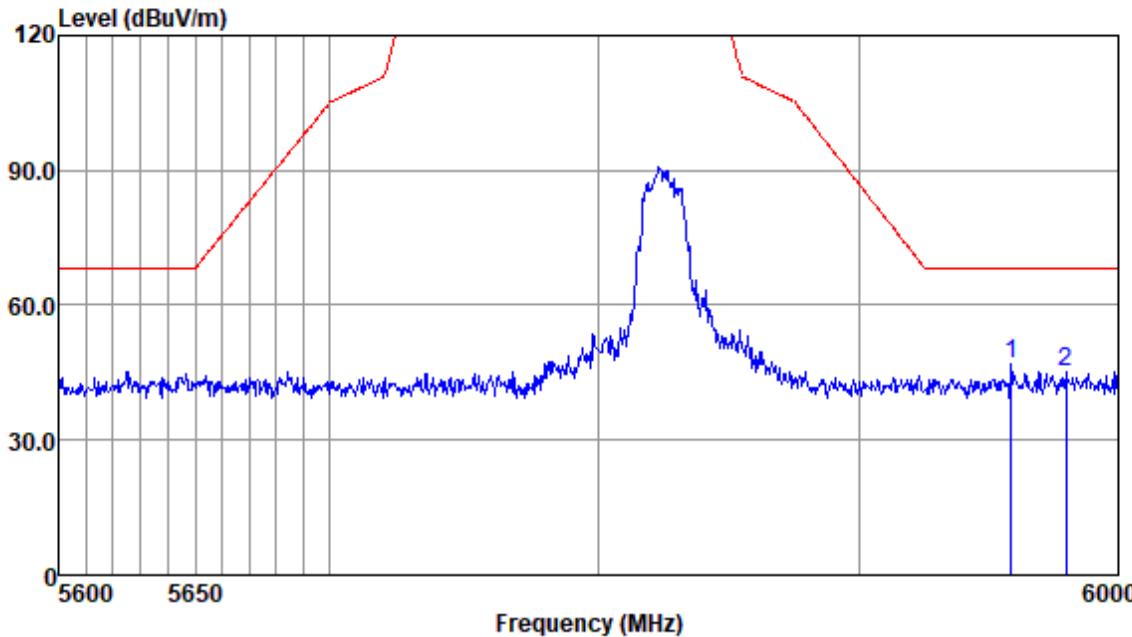
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

**Antenna Polarity :VERTICAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5958.34 | 43.00 | 34.85 | 5.92 | 37.05 | 46.72 | 68.20 | -21.48 | Peak |
| 5979.75 | 41.49 | 34.94 | 5.88 | 37.06 | 45.25 | 68.20 | -22.95 | Peak |

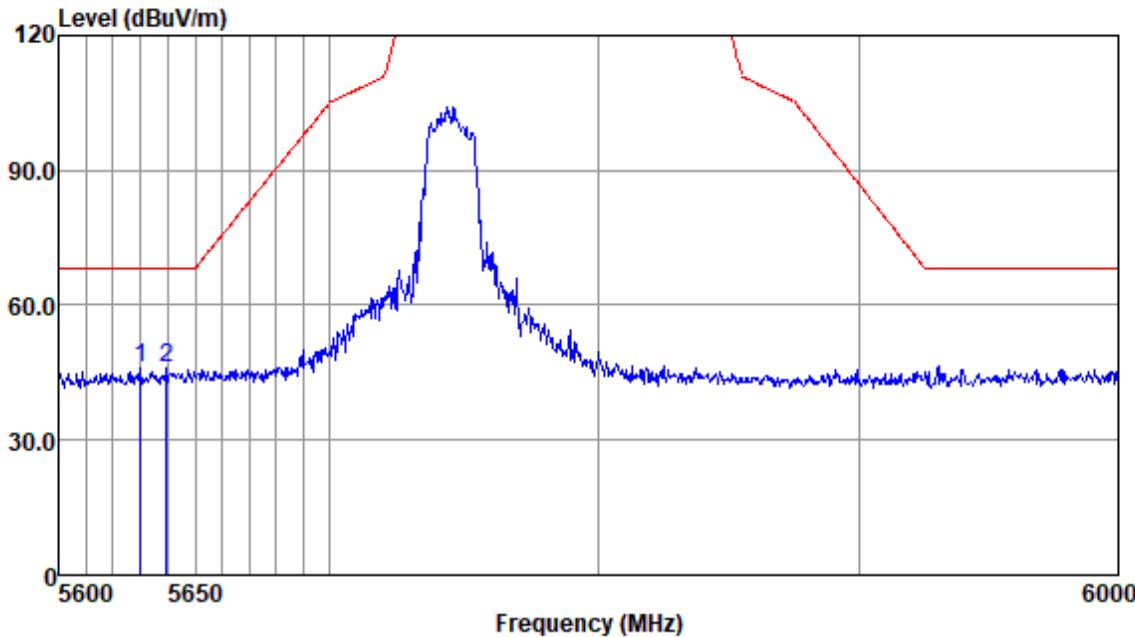
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5630.22 | 42.55 | 34.53 | 5.80 | 37.00 | 45.88 | 68.20 | -22.32 | Peak |
| 5639.55 | 42.56 | 34.53 | 5.83 | 37.00 | 45.92 | 68.20 | -22.28 | Peak |

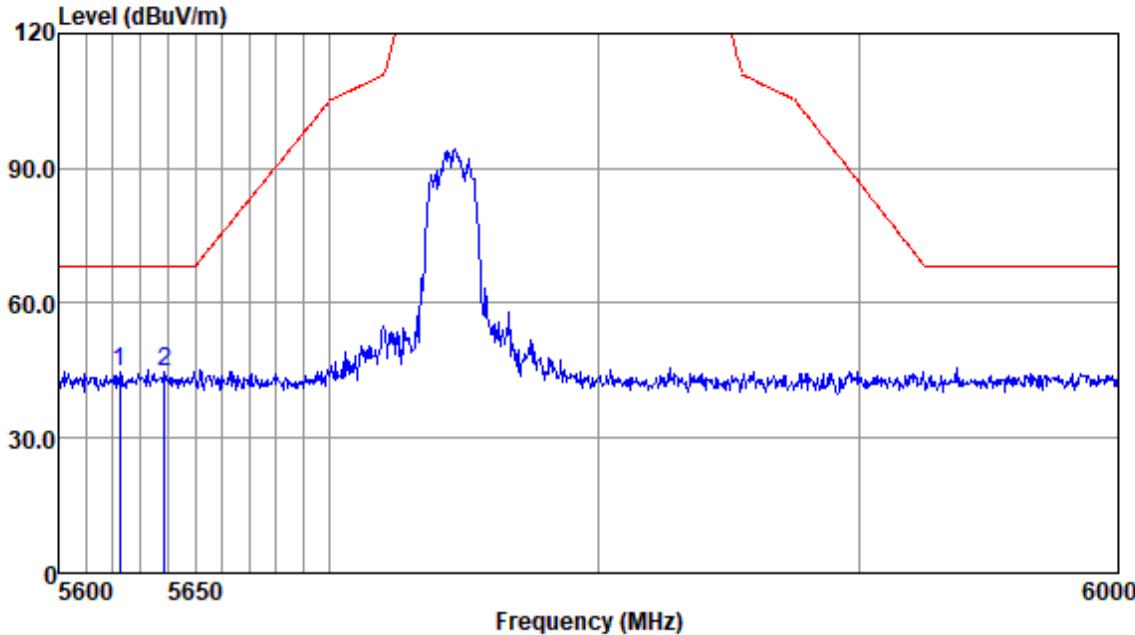
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5622.45 | 41.61 | 34.52 | 5.80 | 37.00 | 44.93 | 68.20 | -23.27 | Peak |
| 5638.77 | 41.23 | 34.53 | 5.83 | 37.00 | 44.59 | 68.20 | -23.61 | Peak |

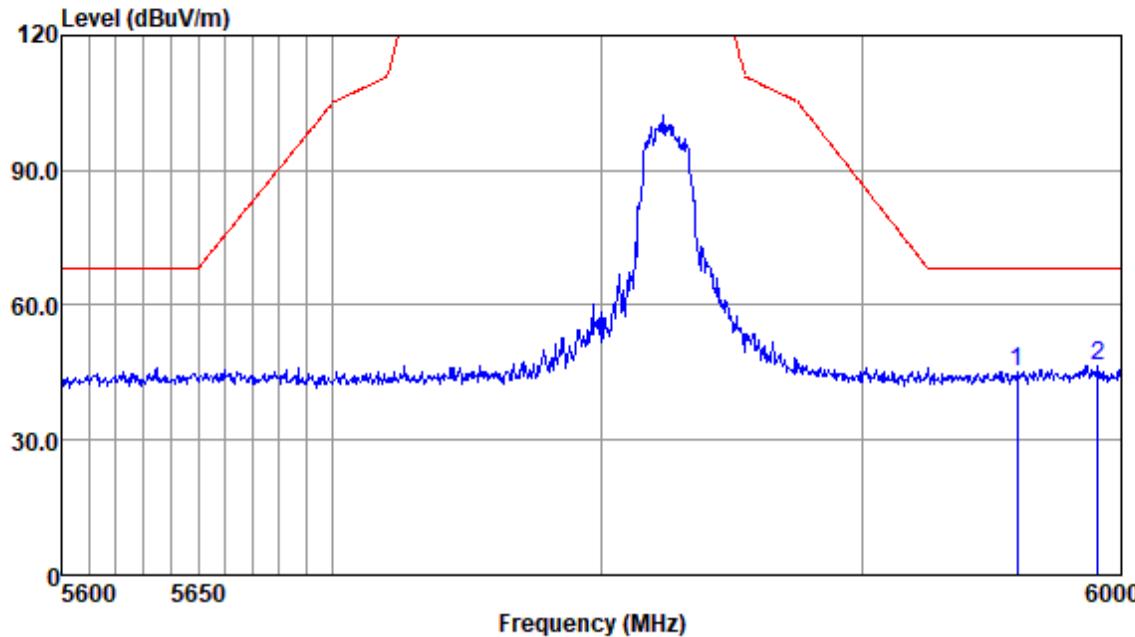
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5959.57 | 41.45 | 34.90 | 5.92 | 37.05 | 45.22 | 68.20 | -22.98 | Peak |
| 5990.90 | 42.88 | 34.94 | 5.84 | 37.06 | 46.60 | 68.20 | -21.60 | Peak |

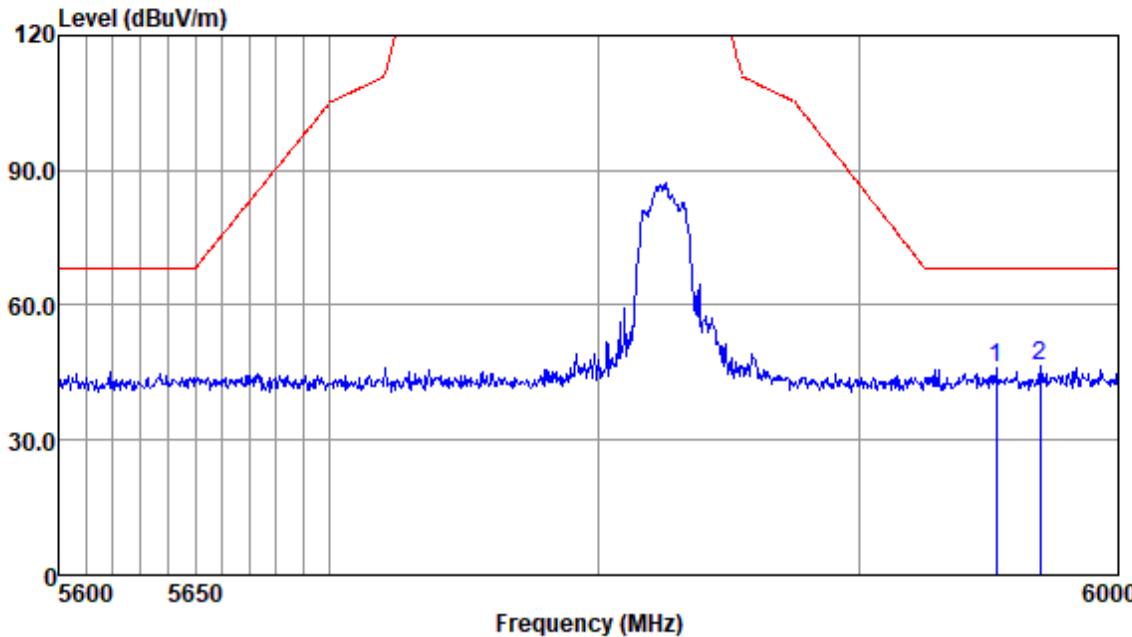
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5952.58 | 42.15 | 34.85 | 5.96 | 37.05 | 45.91 | 68.20 | -22.29 | Peak |
| 5969.45 | 42.57 | 34.90 | 5.92 | 37.05 | 46.34 | 68.20 | -21.86 | Peak |

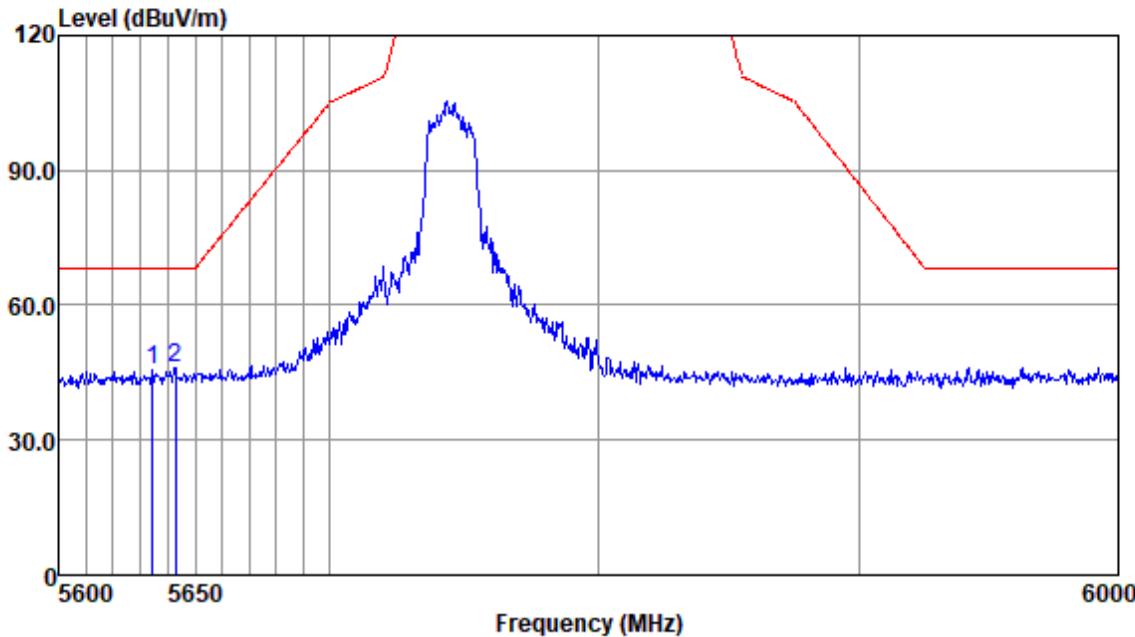
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5634.49 | 42.15 | 34.53 | 5.83 | 37.00 | 45.51 | 68.20 | -22.69 | Peak |
| 5642.66 | 42.59 | 34.53 | 5.83 | 37.00 | 45.95 | 68.20 | -22.25 | Peak |

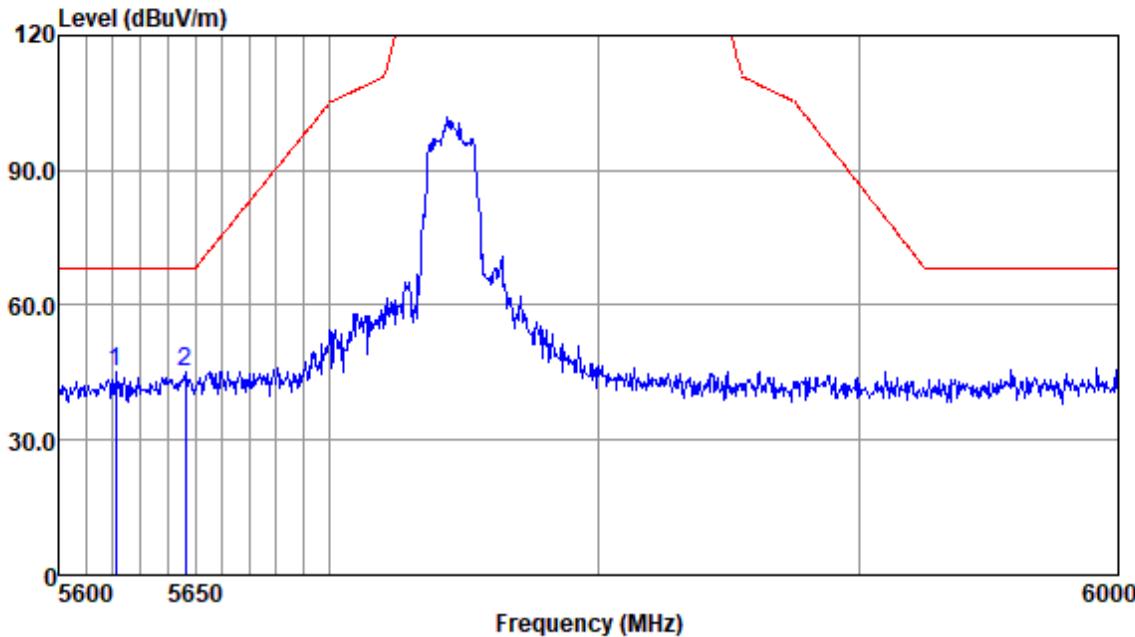
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5620.90 | 41.81 | 34.52 | 5.80 | 37.00 | 45.13 | 68.20 | -23.07 | Peak |
| 5646.56 | 41.75 | 34.53 | 5.83 | 37.00 | 45.11 | 68.20 | -23.09 | Peak |

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

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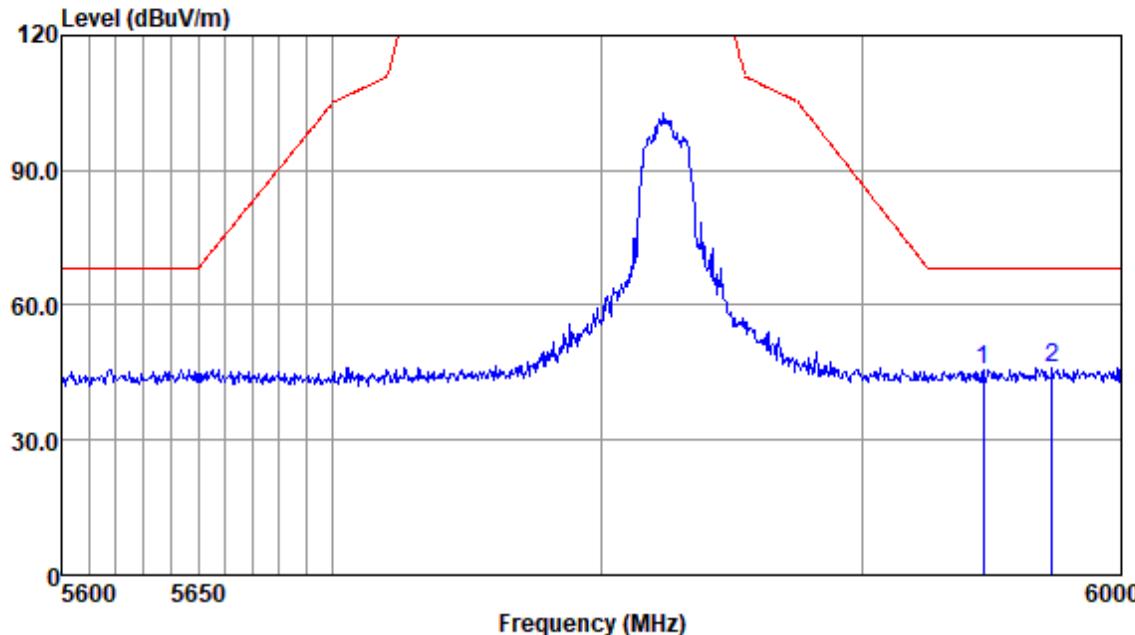
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sgs.china@sgs.com

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5946.43 | 41.65 | 34.85 | 5.96 | 37.05 | 45.41 | 68.20 | -22.79 | Peak |
| 5973.15 | 42.28 | 34.90 | 5.88 | 37.05 | 46.01 | 68.20 | -22.19 | Peak |

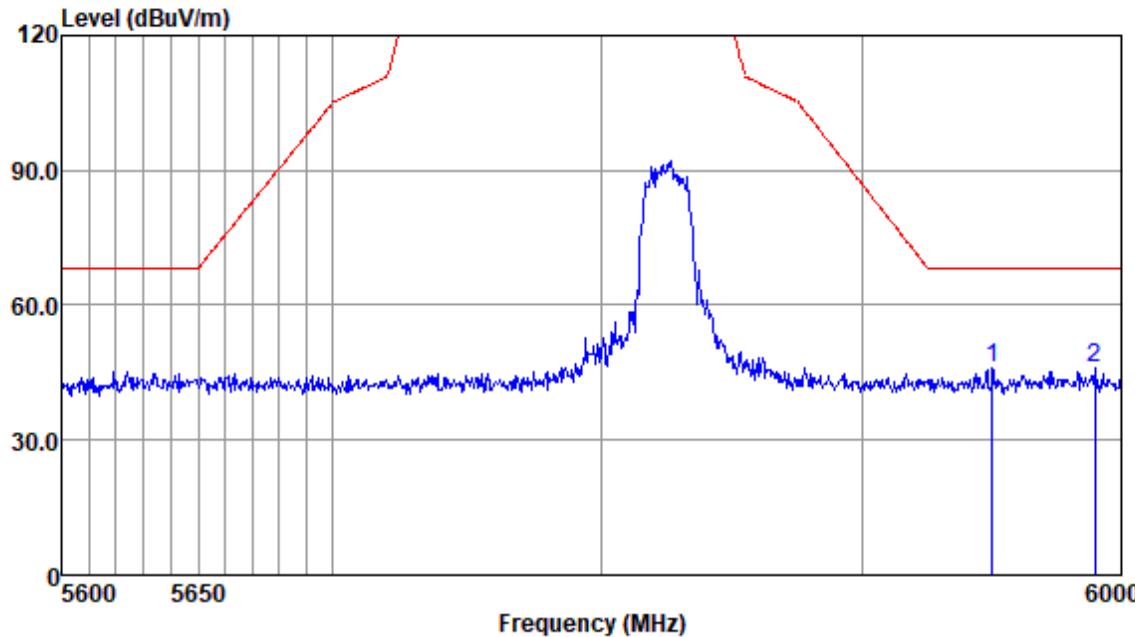
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

**Antenna Polarity :VERTICAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5949.71 | 42.11 | 34.85 | 5.96 | 37.05 | 45.87 | 68.20 | -22.33 | Peak |
| 5989.66 | 42.46 | 34.94 | 5.84 | 37.06 | 46.18 | 68.20 | -22.02 | Peak |

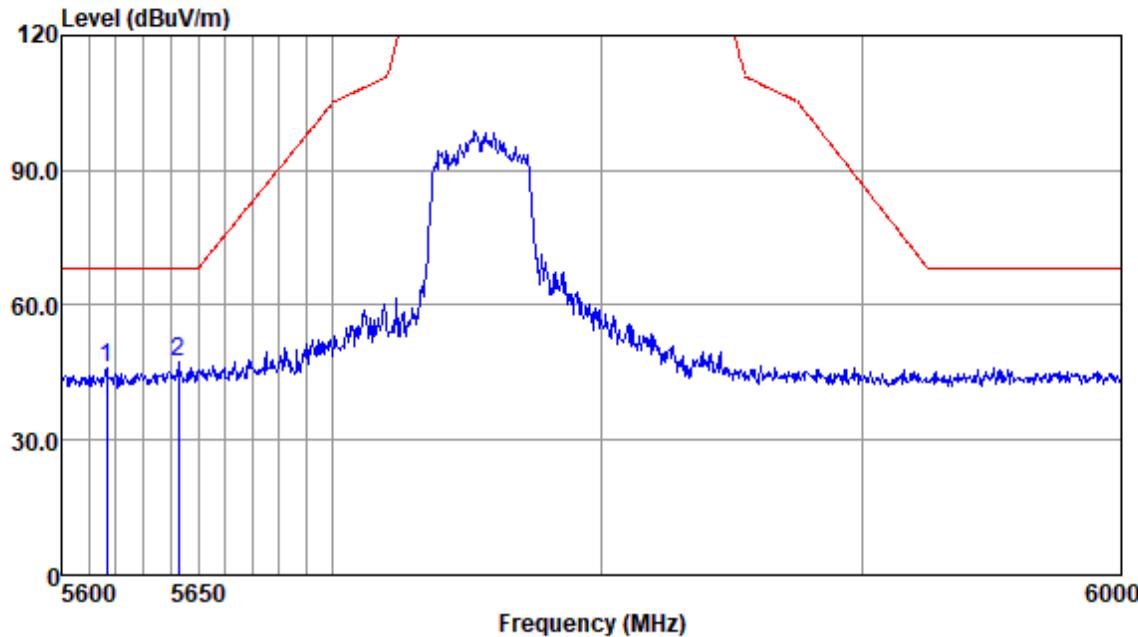
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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sgs.china@sgs.com

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5616.64 | 42.52 | 34.52 | 5.80 | 37.00 | 45.84 | 68.20 | -22.36 | Peak |
| 5642.66 | 43.92 | 34.53 | 5.83 | 37.00 | 47.28 | 68.20 | -20.92 | Peak |

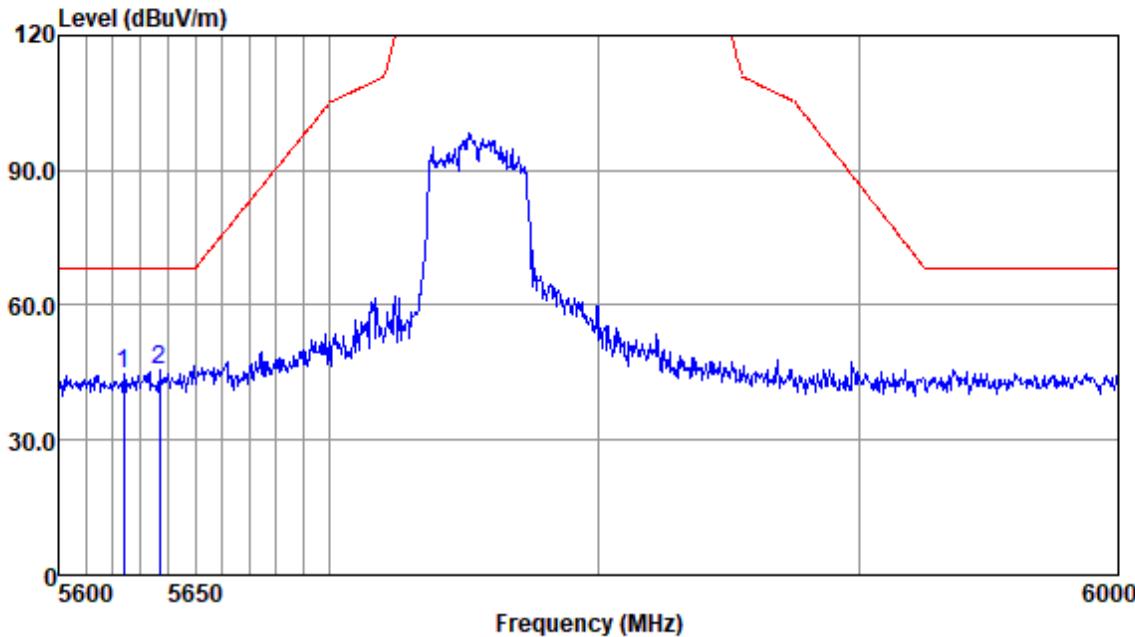
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5624.01 | 41.40 | 34.53 | 5.80 | 37.00 | 44.73 | 68.20 | -23.47 | Peak |
| 5636.83 | 42.36 | 34.53 | 5.83 | 37.00 | 45.72 | 68.20 | -22.48 | Peak |

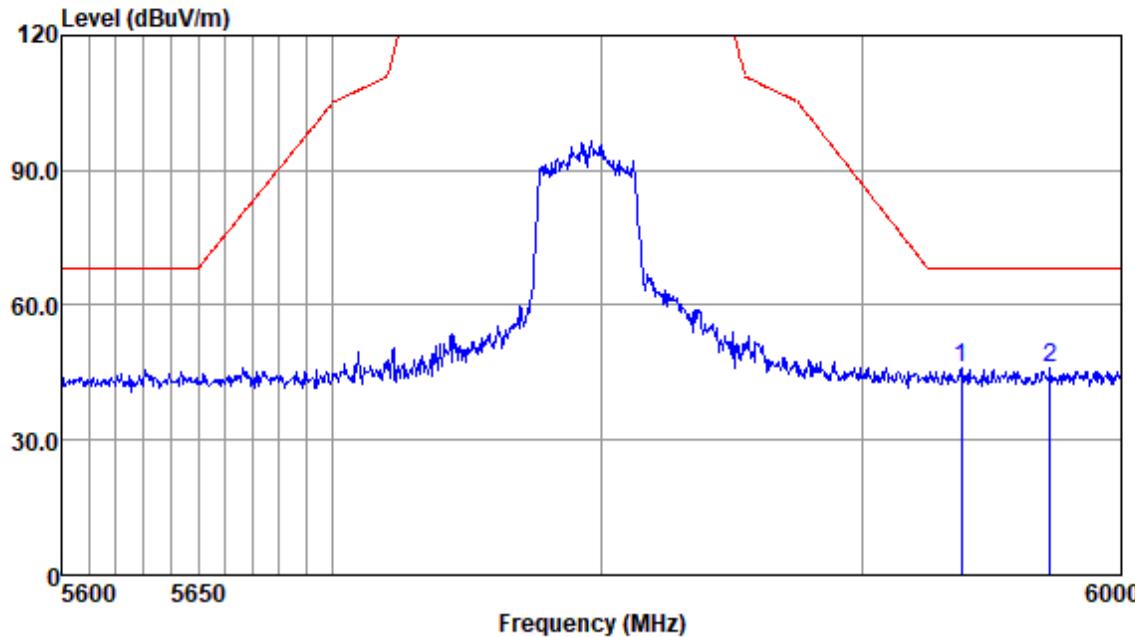
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5937.82 | 42.25 | 34.81 | 6.00 | 37.05 | 46.01 | 68.20 | -22.19 | Peak |
| 5972.33 | 42.10 | 34.90 | 5.92 | 37.05 | 45.87 | 68.20 | -22.33 | Peak |

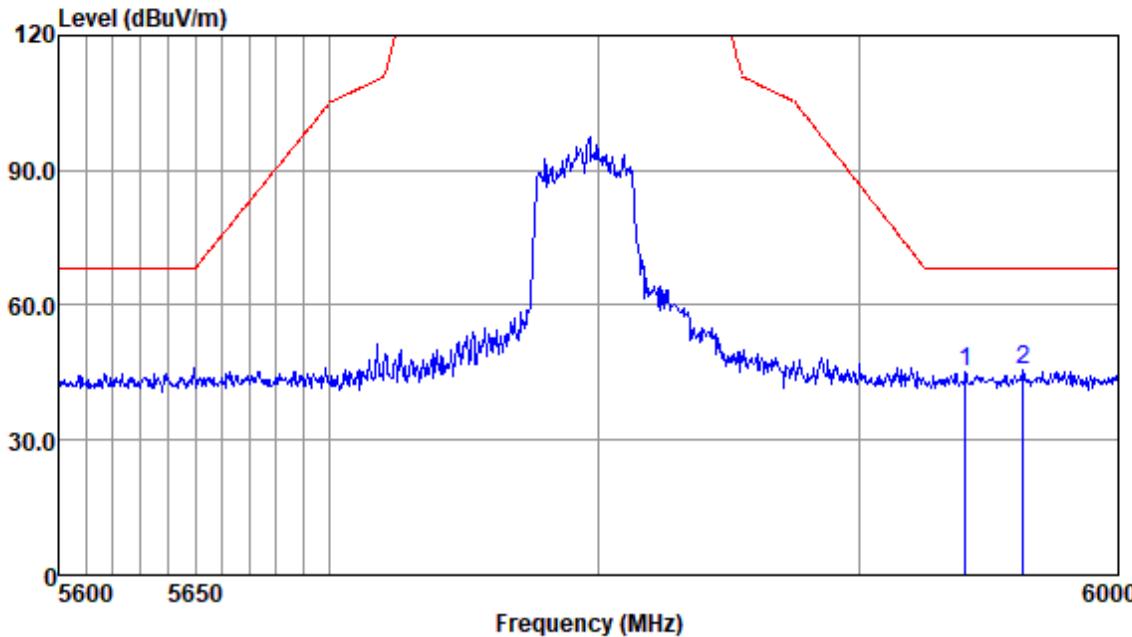
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 5940.69 | 41.63 | 34.81 | 5.96 | 37.05 | 45.35 | 68.20 | -22.85 | Peak |
| 5962.86 | 41.70 | 34.90 | 5.92 | 37.05 | 45.47 | 68.20 | -22.73 | Peak |

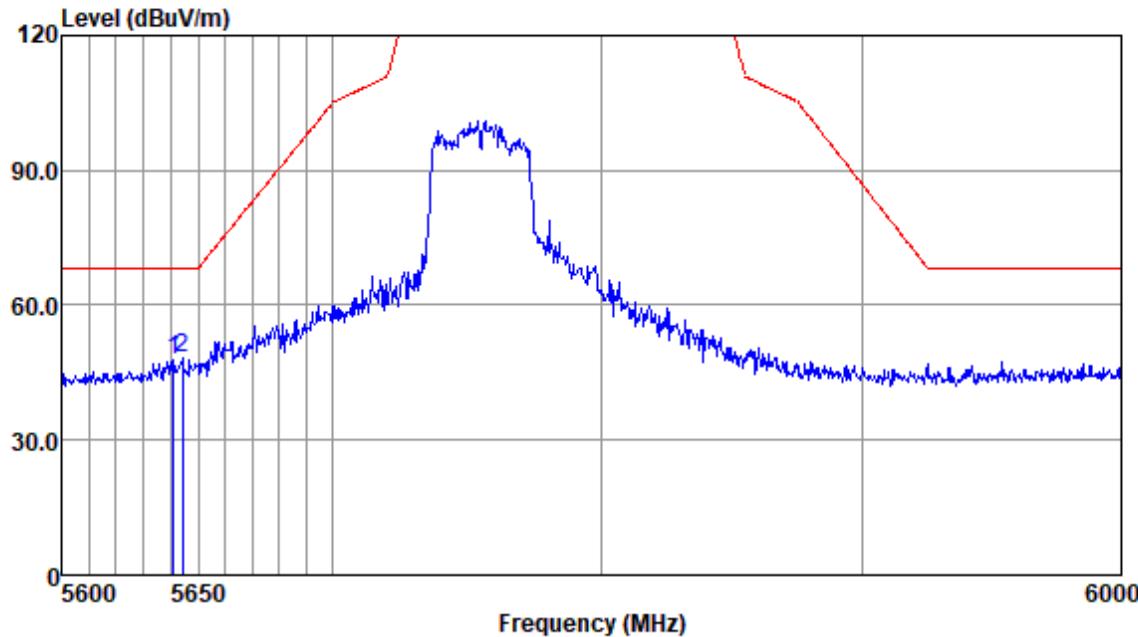
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5641.10 | 44.50 | 34.53 | 5.83 | 37.00 | 47.86 | 68.20 | -20.34 | Peak |
| 5644.22 | 44.87 | 34.53 | 5.83 | 37.00 | 48.23 | 68.20 | -19.97 | Peak |

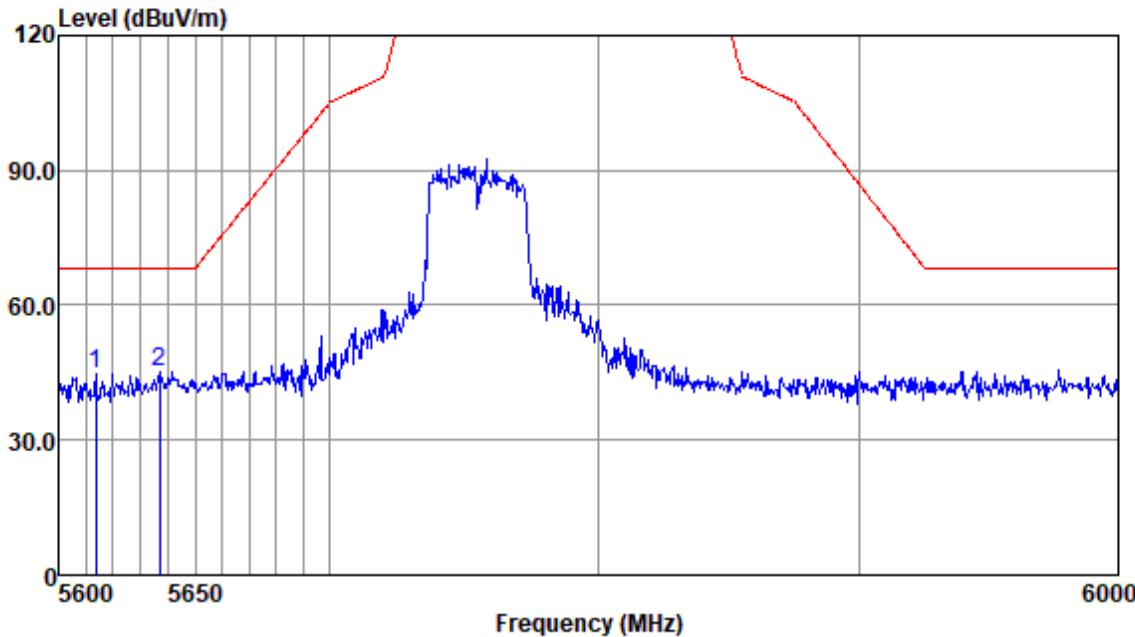
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 5613.54 | 41.64 | 34.52 | 5.78 | 37.00 | 44.94 | 68.20 | -23.26 | Peak |
| 5636.83 | 42.01 | 34.53 | 5.83 | 37.00 | 45.37 | 68.20 | -22.83 | Peak |

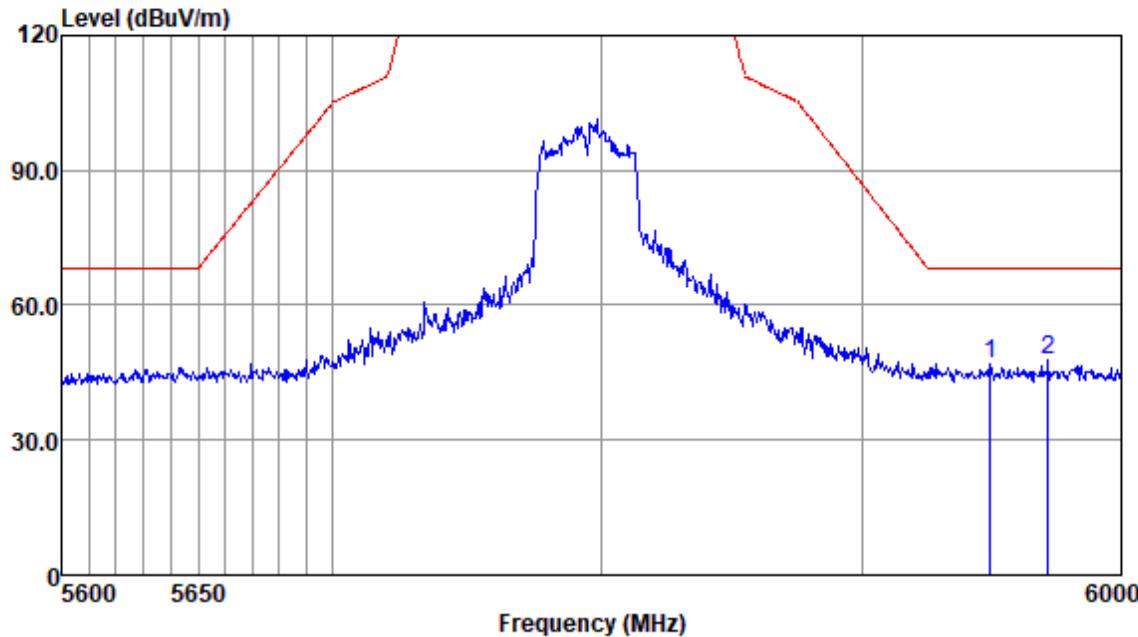
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5948.89 | 43.11 | 34.85 | 5.96 | 37.05 | 46.87 | 68.20 | -21.33 | Peak |
| 5971.51 | 43.97 | 34.90 | 5.92 | 37.05 | 47.74 | 68.20 | -20.46 | Peak |

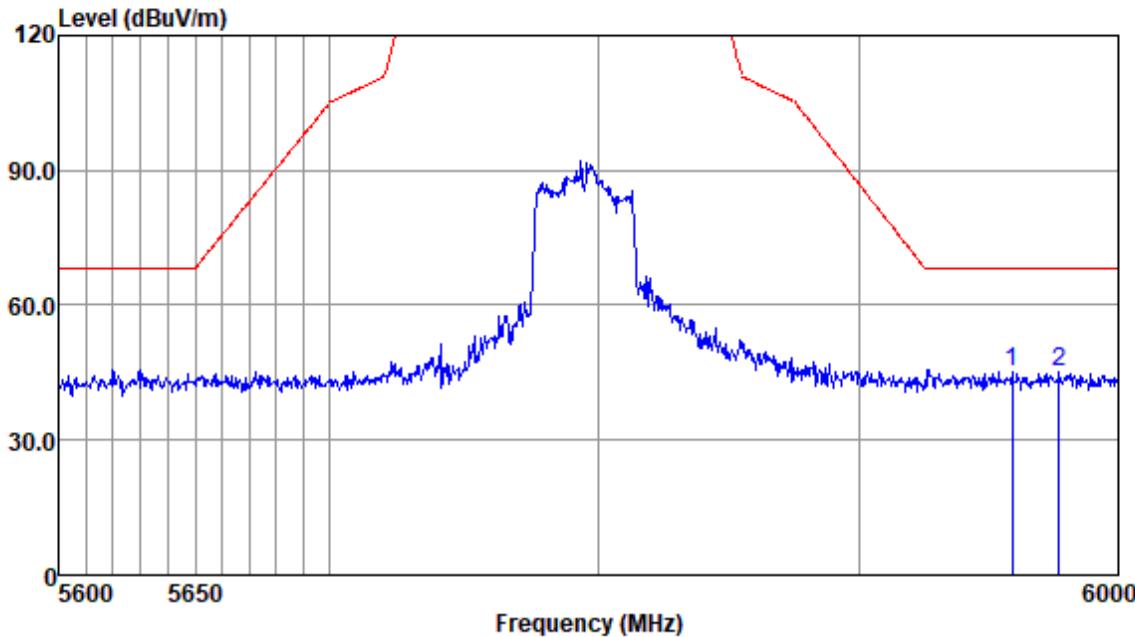
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

**Antenna Polarity :VERTICAL**

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| 5958.75 | 41.36 | 34.90 | 5.92 | 37.05 | 45.13 | 68.20 | -23.07 | Peak |
| 5976.86 | 41.38 | 34.94 | 5.88 | 37.06 | 45.14 | 68.20 | -23.06 | Peak |

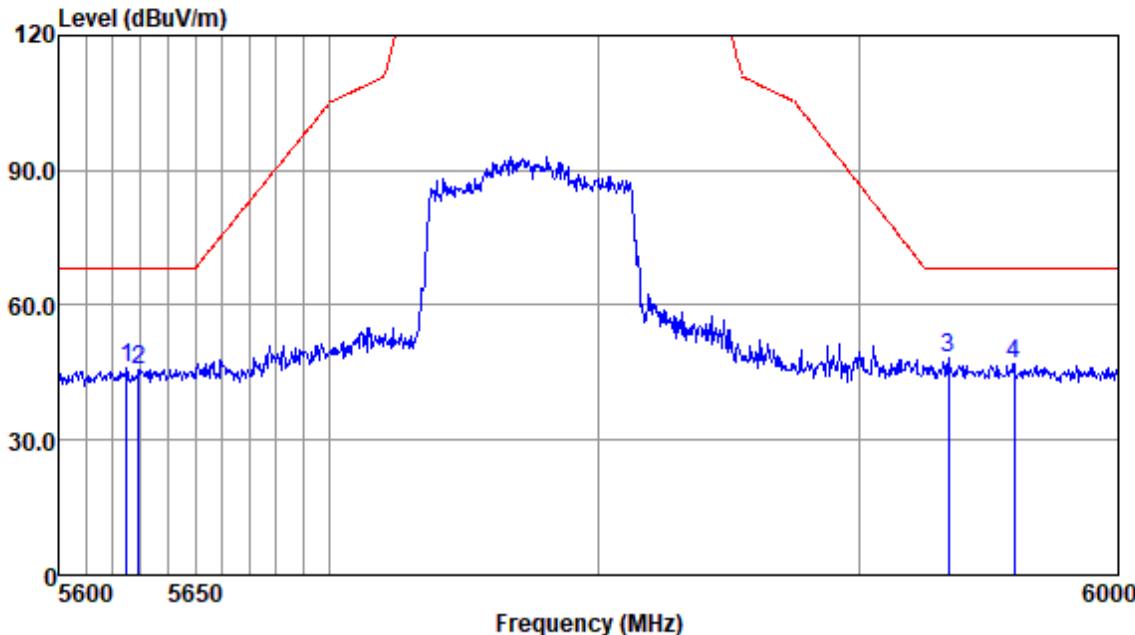
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5624.78 | 42.62 | 34.53 | 5.80 | 37.00 | 45.95 | 68.20 | -22.25 | Peak |
| 5629.44 | 42.41 | 34.53 | 5.80 | 37.00 | 45.74 | 68.20 | -22.46 | Peak |
| 5934.13 | 44.62 | 34.81 | 6.00 | 37.05 | 48.38 | 68.20 | -19.82 | Peak |
| 5959.57 | 43.22 | 34.90 | 5.92 | 37.05 | 46.99 | 68.20 | -21.21 | Peak |

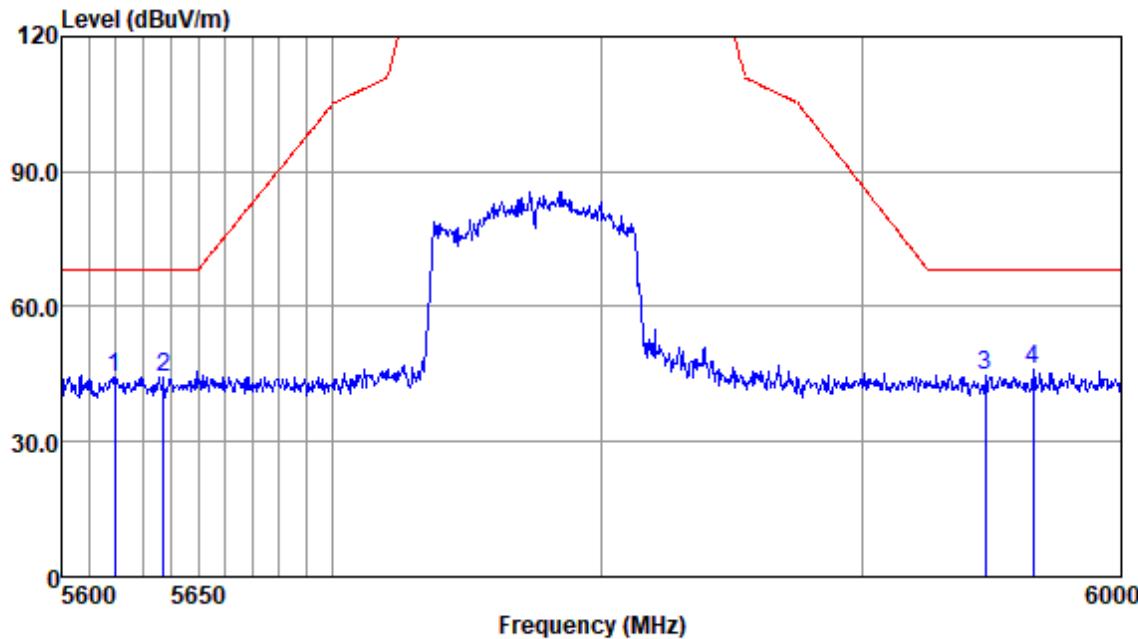
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity : VERTICAL

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 5619.35 | 41.02 | 34.52 | 5.80 | 37.00 | 44.34 | 68.20 | -23.86 | Peak |
| 5637.21 | 41.00 | 34.53 | 5.83 | 37.00 | 44.36 | 68.20 | -23.84 | Peak |
| 5947.25 | 41.14 | 34.85 | 5.96 | 37.05 | 44.90 | 68.20 | -23.30 | Peak |
| 5965.74 | 42.37 | 34.90 | 5.92 | 37.05 | 46.14 | 68.20 | -22.06 | Peak |

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

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7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 19.8 °C Humidity: 31.7 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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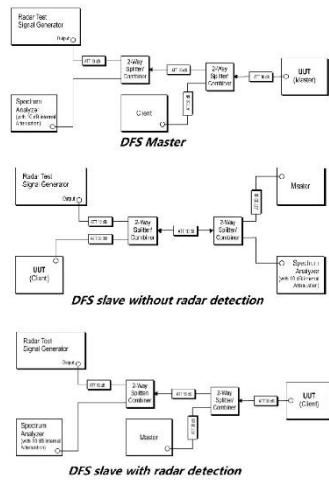
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.10 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

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 |

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 19.8 °C

Humidity: 31.1 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80); |

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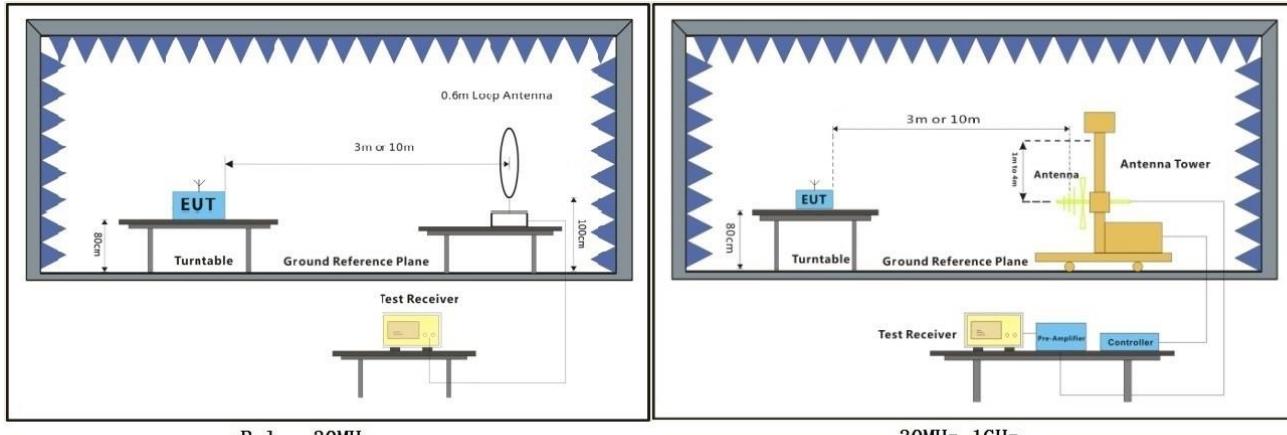
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802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



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7.10.4 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 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. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. 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.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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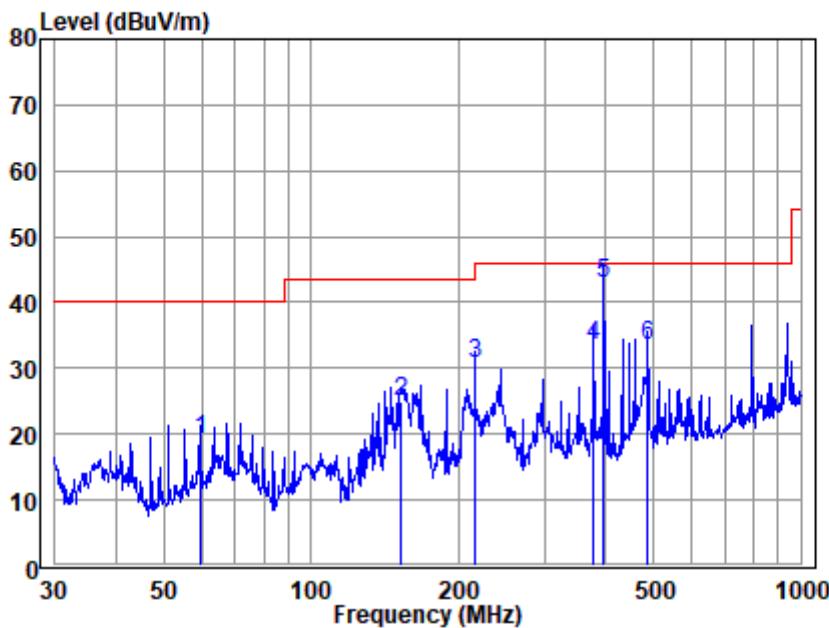
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Test Mode: 01; Polarity: Horizontal



Antenna Polarity :Horizontal
EUT/Project :0191C0
Test mode :01

| Freq MHz | Read Level dBuV | Antenna Factor dB/m | Cable Loss dB | Preamp Factor dB | Emission Level dBuV/m | Limit Line dBuV/m | Over Limit dB | Remark |
|-------------|-----------------------|---------------------------|---------------------|------------------------|-----------------------------|-------------------------|---------------------|--------|
| | | | | | | | | |
| 1 59.23 | 38.49 | 13.18 | 1.18 | 33.61 | 19.24 | 40.00 | -20.76 | QP |
| 2 152.13 | 42.65 | 13.45 | 2.45 | 33.49 | 25.06 | 43.50 | -18.44 | QP |
| 3 216.02 | 50.76 | 9.90 | 3.22 | 33.24 | 30.64 | 46.00 | -15.36 | QP |
| 4 378.58 | 46.90 | 15.29 | 4.34 | 32.94 | 33.59 | 46.00 | -12.41 | QP |
| 5 396.24 | 56.09 | 15.60 | 4.11 | 32.91 | 42.89 | 46.00 | -3.11 | QP |
| 6 487.32 | 44.50 | 17.65 | 4.35 | 33.00 | 33.50 | 46.00 | -12.50 | QP |

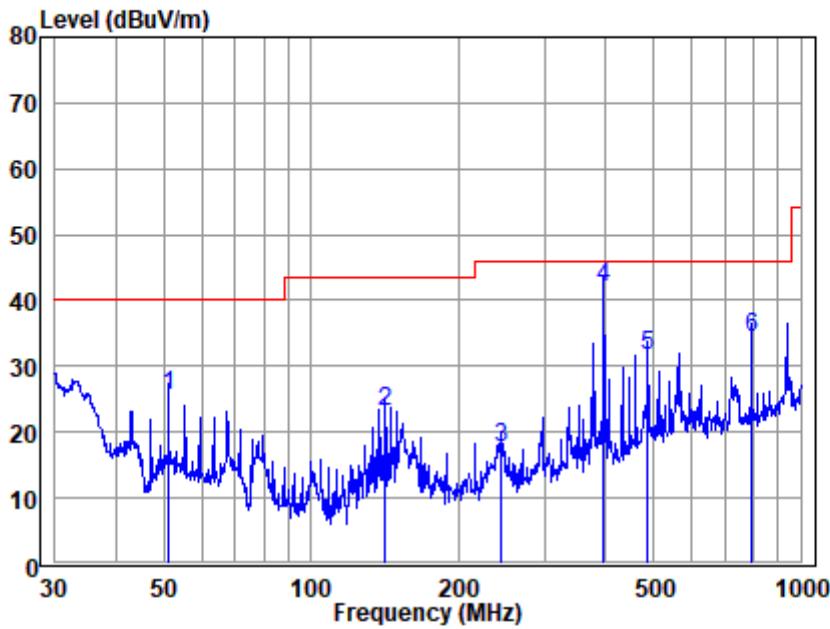
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 01; Polarity: Vertical



Antenna Polarity :Vertical
EUT/Project :0191C0
Test mode :01

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|----------|------------|----------------|------------|---------------|----------------|------------|------------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 1 51.12 | 44.27 | 13.80 | 1.04 | 33.69 | 25.42 | 40.00 | -14.58 | QP |
| 2 141.33 | 41.15 | 12.97 | 2.47 | 33.52 | 23.07 | 43.50 | -20.43 | QP |
| 3 243.38 | 36.03 | 11.62 | 3.17 | 33.13 | 17.69 | 46.00 | -28.31 | QP |
| 4 396.24 | 55.14 | 15.60 | 4.11 | 32.91 | 41.94 | 46.00 | -4.06 | QP |
| 5 487.32 | 42.75 | 17.65 | 4.35 | 33.00 | 31.75 | 46.00 | -14.25 | QP |
| 6 793.40 | 38.28 | 22.39 | 6.32 | 32.53 | 34.46 | 46.00 | -11.54 | QP |

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



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2302000191CO

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2302000191CO

-- End of the Report --

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