



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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TEST REPORT

Application No.: FYCR2301000009AT
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong
Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer: 401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Equipment Under Test (EUT):
EUT Name: UNATTENDED PAYMENT TERMINAL
Model No.: IM15
Trade Mark: PAX
FCC ID: V5PIM154GBW
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-01-10
Date of Test: 2023-01-16 to 2023-02-13
Date of Issue: 2023-03-06

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

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

Winkey Wang

Winkey Wang
EMC Technical Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023-03-06 | | Original |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: | | | | |
| | | Tree Zhan | | |
| | | Tree Zhan/Project Engineer | | |
| | | Winkey Wang | | |
| | | Winkey Wang/Reviewer | | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|----------------------------------|--------|--------------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart E 15.407 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |
| Transmission in the Absence of Data | | N/A | 47 CFR Part 15, Subpart E 15.407 (c) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|------------------------------------|--|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart E 15.407 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) | Pass |
| Duty Cycle | | ANSI C63.10 (2013) Section 12.2 | ANSI C63.10 (2013) Section 12.2 | Pass |
| 99% Bandwidth | | ANSI C63.10 (2013) Section 12.4.2 | ANSI C63.10 (2013) Section 12.4.2 | Pass |
| 26dB Emission bandwidth | | ANSI C63.10 (2013) Section 12.4.1 | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band) | | ANSI C63.10 (2013) Section 6.9.2 | 47 CFR Part 15, Subpart E 15.407 (e) | Pass |
| Maximum Conducted output power | | ANSI C63.10 (2013) Section 12.3 | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Peak Power spectrum density | | ANSI C63.10 (2013) Section 12.5 | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Radiated Emissions (Above 1GHz) | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |
| Frequency Stability | | ANSI C63.10 (2013) Section 6.8 | 47 CFR Part 15, Subpart E 15.407 (g) | Pass |
| Channel Move Time | | KDB 905462 D02 Section 7.8.3 | KDB 905462 D02 Section 5.1 | Pass |
| Channel Closing Transmission Time | | KDB 905462 D02 Section 7.8.3 | KDB 905462 D02 Section 5.1 | Pass |
| Radiated Emissions (Below 1GHz) | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |



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4 General Information

4.1 Details of E.U.T.

| | |
|---|---|
| Power supply: | DC5V from USB type C port Or DC12-48V by DC Source Or DC12V/1A by AC/DC adapter |
| Operation Frequency/Number of channels (20MHz): | U-NII-1: 5180-5240MHz (4 Channels) U-NII-2A: 5260-5320MHz (4 Channels) U-NII-2C: 5500-5700MHz (11 Channels) U-NII-3: 5745-5825MHz (5 Channels) |
| Operation Frequency/Number of channels/(40MHz): | U-NII-1: 5190-5230MHz (2 Channels) U-NII-2A: 5270-5310MHz (2 Channels) U-NII-2C: 5510-5670MHz (5 Channels) U-NII-3: 5755-5795MHz (2 Channels) |
| Operation Frequency/Number of channels (80MHz): | U-NII-1: 5210MHz (1 Channel) U-NII-2A: 5290MHz (1 Channels) U-NII-2C: 5530-5610MHz (2 Channels) U-NII-3: 5775MHz (1 Channel) |
| Modulation Type: | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 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 |
| DFS Function: | Slave without Radar detection |
| TPC Function: | Without TPC function |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 3.4dBi |

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4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ± 2.1 dB (9kHz to 30MHz) |
| Duty Cycle | $\pm 0.3\%$ |
| 99% Bandwidth | $\pm 0.3\%$ |
| 26dB Emission bandwidth | $\pm 0.3\%$ |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band) | $\pm 0.3\%$ |
| Maximum Conducted output power | ± 0.8 dB |
| Peak Power spectrum density | ± 0.4 dB |
| Radiated Emissions (Above 1GHz) | ± 4.4 dB (Above 1GHz) |
| Radiated Emissions which fall in the restricted bands | ± 4.4 dB (Above 1GHz) |
| Frequency Stability | $\pm 5.4 \times 10^{-8}$ |
| Channel Move Time | ± 0.8 dB |
| Channel Closing Transmission Time | ± 0.8 dB |
| Radiated Emissions (Below 1GHz) | ± 3.1 dB (Below 1GHz) |



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

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

• FCC –Designation Number: CN1322

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

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

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

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|----------------------|-----------------|-----------------|---------------|-----------|--------------|
| Shielding Room | CRT | N/A | SEM001-14 | 2021/7/13 | 2024/7/12 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-01 | 2022/7/12 | 2023/7/11 |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | SEM007-16 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM033-02 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

Duty Cycle

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|----------------------|--------------|---------------|---------------|-----------|--------------|
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

99% Bandwidth

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|----------------------|--------------|---------------|---------------|-----------|--------------|
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

26dB Emission bandwidth

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|----------------------|--------------|---------------|---------------|-----------|--------------|
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

Minimum 6 dB bandwidth (5.725-5.85 GHz band)

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|----------------------|--------------|---------------|---------------|-----------|--------------|
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |



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| Maximum Conducted output power | | | | | |
|--------------------------------|---------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Peak Power spectrum density | | | | | |
|-----------------------------|--------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Radiated Emissions (Above 1GHz) | | | | | |
|---------------------------------|--------------|-----------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2022/7/12 | 2023/7/11 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| Coaxial Cable | CCS | N/A | SEM035-02 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

| Radiated Emissions which fall in the restricted bands | | | | | |
|---|--------------|-----------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |
| Coaxial Cable | CCS | N/A | SEM035-03 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |



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| Frequency Stability | | | | | |
|---|------------------------------|---------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Programmable Temperature&Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2022/03/22 | 2023/03/21 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Channel Move Time | | | | | |
|-----------------------------|--------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2022/7/12 | 2023/7/11 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM037-01 | 2022/5/16 | 2023/5/15 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| MXA Signal Analyzer | KEYSIGHT | N9020B | SEM004-24 | 2022/4/24 | 2023/4/23 |

| Channel Closing Transmission Time | | | | | |
|-----------------------------------|--------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Signal Generator | Agilent | N5173B | SEM006-05 | 2022/7/12 | 2023/7/11 |
| ESG Vector Signal Generator | Agilent | E4438C | SEM006-15 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM037-01 | 2022/5/16 | 2023/5/15 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| MXA Signal Analyzer | KEYSIGHT | N9020B | SEM004-24 | 2022/4/24 | 2023/4/23 |



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| Radiated Emissions (Below 1GHz) | | | | | |
|---------------------------------|--------------|-----------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2022/7/12 | 2023/7/11 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM035-01 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

| General used equipment | | | | | |
|---------------------------------|--------------|-----------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-22 | 2022/7/12 | 2023/7/11 |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-23 | 2022/7/12 | 2023/7/11 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2022/7/12 | 2023/7/11 |



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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 an 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 integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna: 3.4dBi

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

Humidity: 52.4 % RH

Atmospheric Pressure: 1020 mbar



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7.1.2 Test Mode Description

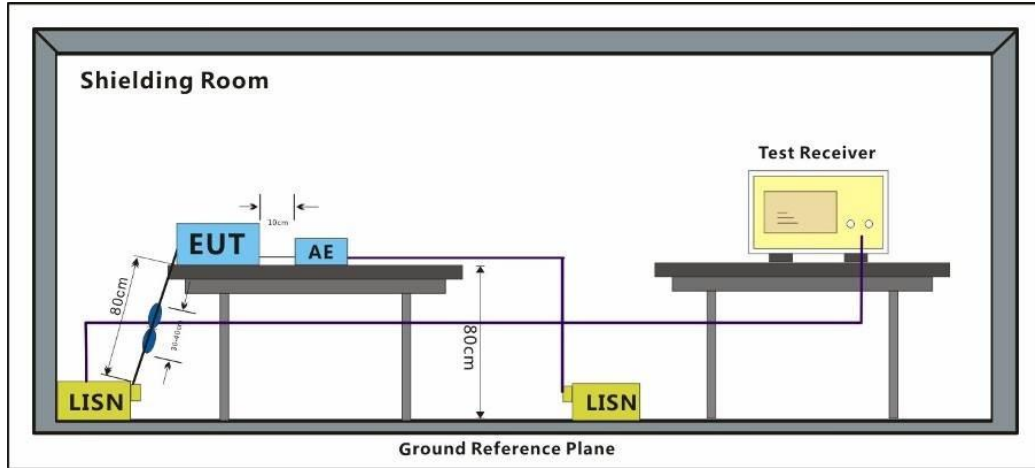
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Pre-scan | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Pre-scan | 06 | TX mode (U-NII-2C)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Pre-scan | 07 | 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), 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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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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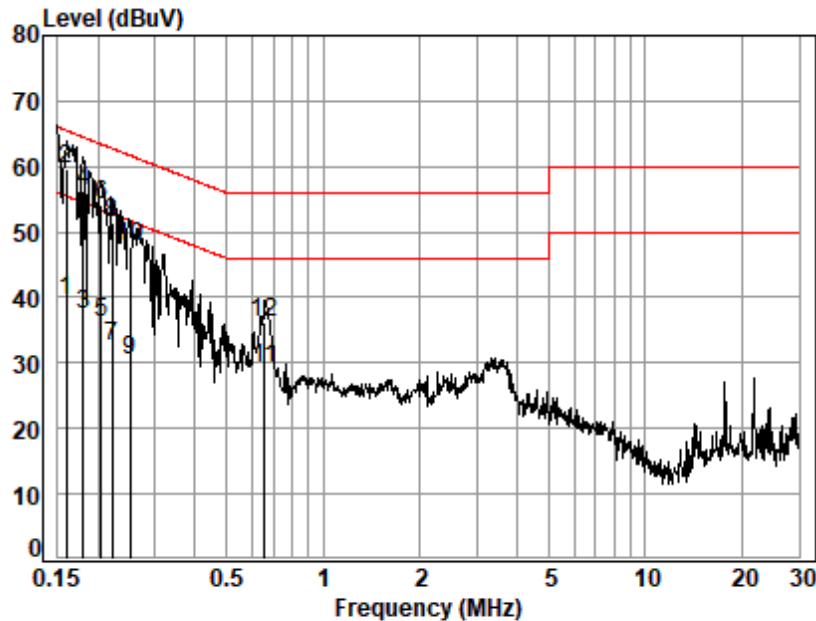
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Test Mode: 04; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00009AT
Test mode: 04

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1598 | 0.02 | 0.25 | 39.40 | 39.67 | 55.47 | -15.80 | Average |
| 2 | 0.1598 | 0.02 | 0.25 | 59.24 | 59.51 | 65.47 | -5.96 | QP |
| 3 | 0.1796 | 0.02 | 0.26 | 37.17 | 37.45 | 54.50 | -17.05 | Average |
| 4 | 0.1796 | 0.02 | 0.26 | 56.11 | 56.39 | 64.50 | -8.11 | QP |
| 5 | 0.2040 | 0.02 | 0.26 | 35.79 | 36.07 | 53.45 | -17.38 | Average |
| 6 | 0.2040 | 0.02 | 0.26 | 53.87 | 54.15 | 63.45 | -9.30 | QP |
| 7 | 0.2220 | 0.02 | 0.26 | 32.39 | 32.67 | 52.74 | -20.07 | Average |
| 8 | 0.2220 | 0.02 | 0.26 | 51.09 | 51.37 | 62.74 | -11.37 | QP |
| 9 | 0.2521 | 0.03 | 0.26 | 30.16 | 30.45 | 51.69 | -21.24 | Average |
| 10 | 0.2521 | 0.03 | 0.26 | 47.62 | 47.91 | 61.69 | -13.78 | QP |
| 11 | 0.6578 | 0.03 | 0.23 | 28.80 | 29.06 | 46.00 | -16.94 | Average |
| 12 | 0.6578 | 0.03 | 0.23 | 35.89 | 36.15 | 56.00 | -19.85 | QP |



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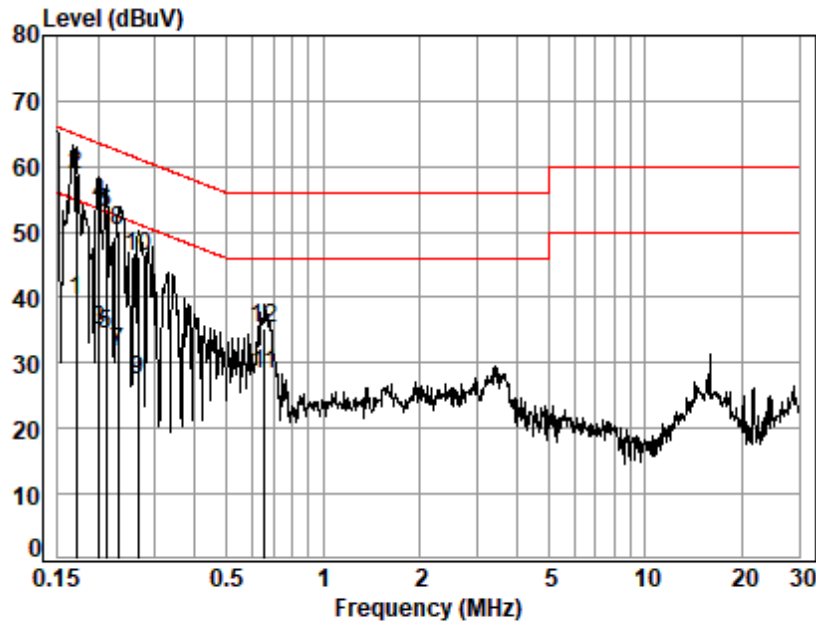
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Test Mode: 04; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00009AT
Test mode: 04

| | Freq | Cable Loss | LISN Factor | Read Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|------------|------------|----------------|
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.1712 | 0.02 | 0.30 | 39.20 | 39.52 | 54.90 | -15.38 Average |
| 2 | 0.1712 | 0.02 | 0.30 | 58.40 | 58.72 | 64.90 | -6.18 QP |
| 3 | 0.2018 | 0.02 | 0.29 | 34.60 | 34.91 | 53.54 | -18.63 Average |
| 4 | 0.2018 | 0.02 | 0.29 | 53.79 | 54.10 | 63.54 | -9.44 QP |
| 5 | 0.2117 | 0.02 | 0.29 | 34.03 | 34.34 | 53.14 | -18.80 Average |
| 6 | 0.2117 | 0.02 | 0.29 | 52.74 | 53.05 | 63.14 | -10.09 QP |
| 7 | 0.2316 | 0.02 | 0.29 | 31.33 | 31.64 | 52.39 | -20.75 Average |
| 8 | 0.2316 | 0.02 | 0.29 | 49.92 | 50.23 | 62.39 | -12.16 QP |
| 9 | 0.2658 | 0.03 | 0.28 | 27.06 | 27.37 | 51.25 | -23.88 Average |
| 10 | 0.2658 | 0.03 | 0.28 | 45.93 | 46.24 | 61.25 | -15.01 QP |
| 11 | 0.6578 | 0.03 | 0.18 | 28.11 | 28.32 | 46.00 | -17.68 Average |
| 12 | 0.6578 | 0.03 | 0.18 | 35.15 | 35.36 | 56.00 | -20.64 QP |



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7.2 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2013) Section 12.2

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 07 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

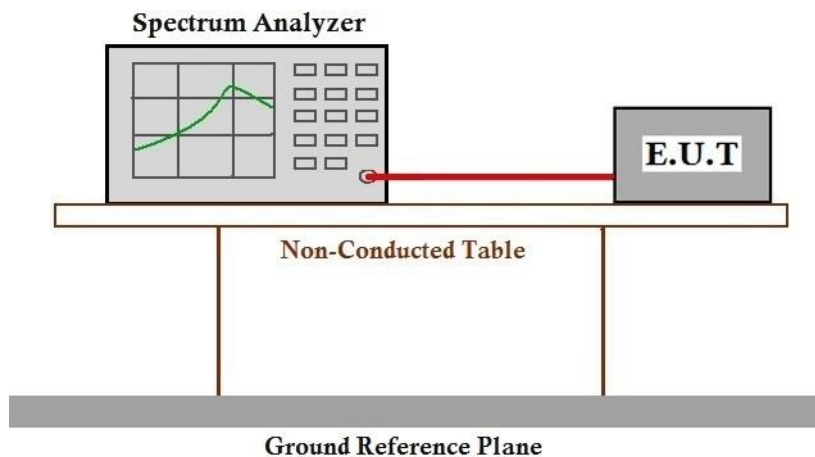


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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 07 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

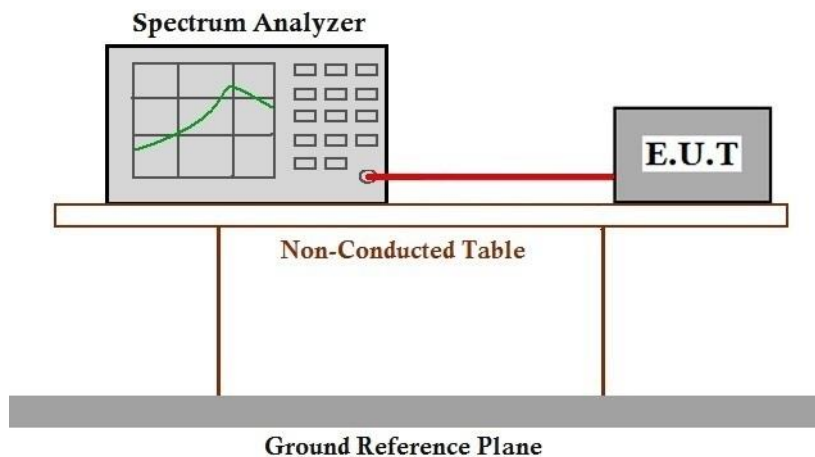


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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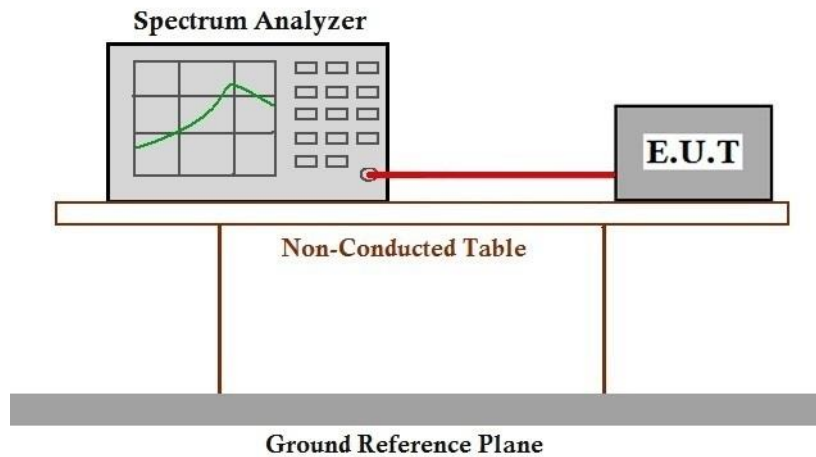
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

7.5.1 E.U.T. Operation

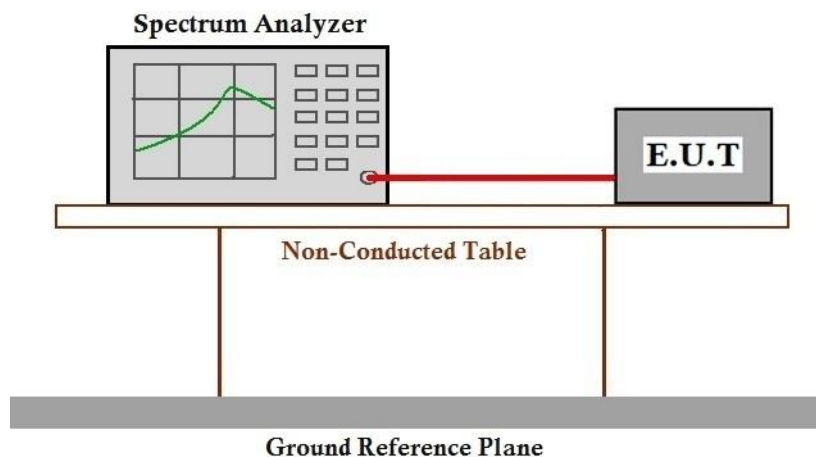
Operating Environment:

Temperature: 25.5 °C Humidity: 46.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 07 | 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), 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



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7.6 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

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: | <p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p> |

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 46.4 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and |



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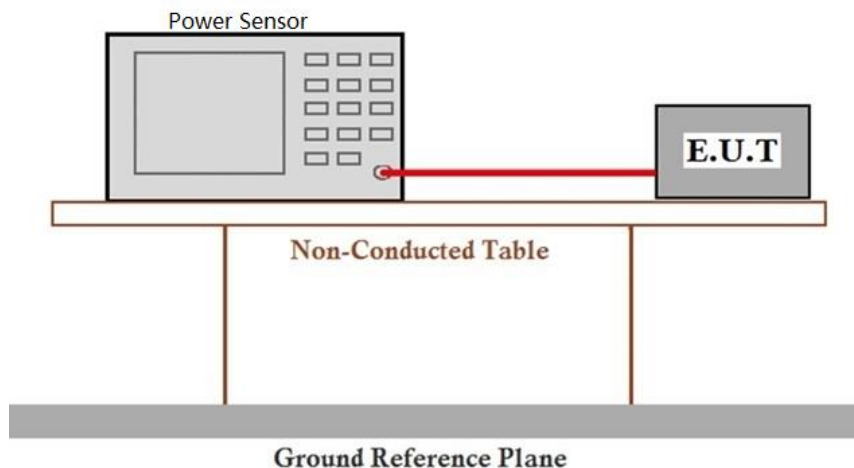
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| | | |
|------------|----|--|
| | | found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 07 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

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. |

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 46.4 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_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), 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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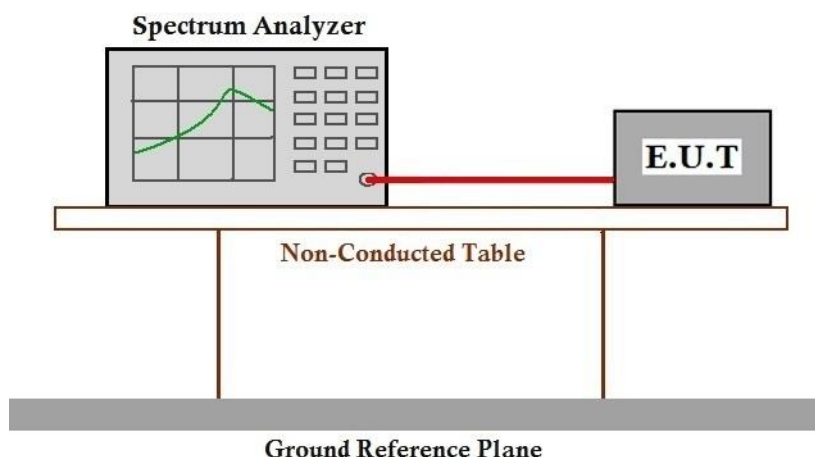
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| | | |
|------------|----|--|
| | | 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 07 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Radiated Emissions (Above 1GHz)

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

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

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|----------------------------------|------------------------------|
| Above 1GHz | 500 | 3 |
| <p>*(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.</p> <p>(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.</p> <p>(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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(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.</p> <p>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.</p> | | |

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 46.4 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | 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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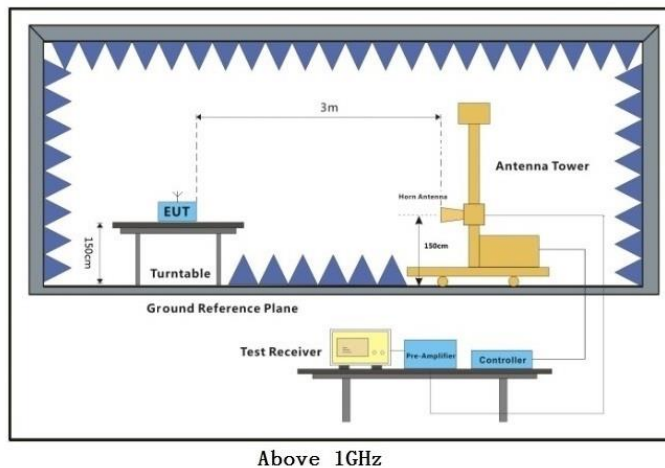
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| | | |
|------------|----|---|
| | | IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 07 | 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), 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 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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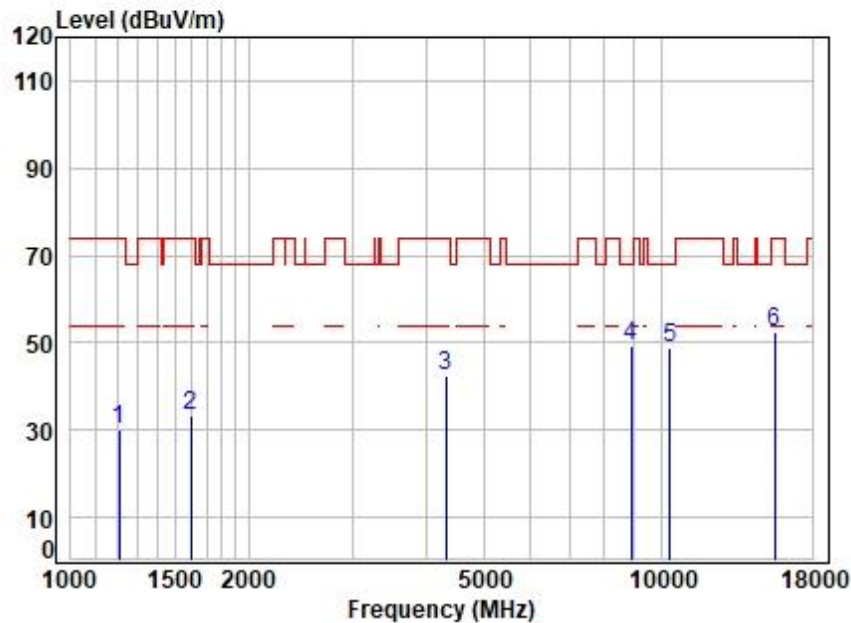
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1206.682 | 3.16 | 24.30 | 52.66 | 55.39 | 30.19 | 74.00 | -43.81 | peak |
| 2 | 1597.181 | 3.98 | 24.79 | 52.91 | 57.47 | 33.33 | 74.00 | -40.67 | peak |
| 3 | 4316.859 | 7.48 | 29.95 | 52.90 | 57.84 | 42.37 | 74.00 | -31.63 | peak |
| 4 | 8891.725 | 10.52 | 36.11 | 54.14 | 56.93 | 49.42 | 68.20 | -18.78 | peak |
| 5 | 10360.000 | 11.08 | 38.85 | 53.35 | 52.43 | 49.01 | 68.20 | -19.19 | peak |
| 6 | 15540.000 | 13.49 | 39.74 | 53.43 | 52.54 | 52.34 | 74.00 | -21.66 | peak |



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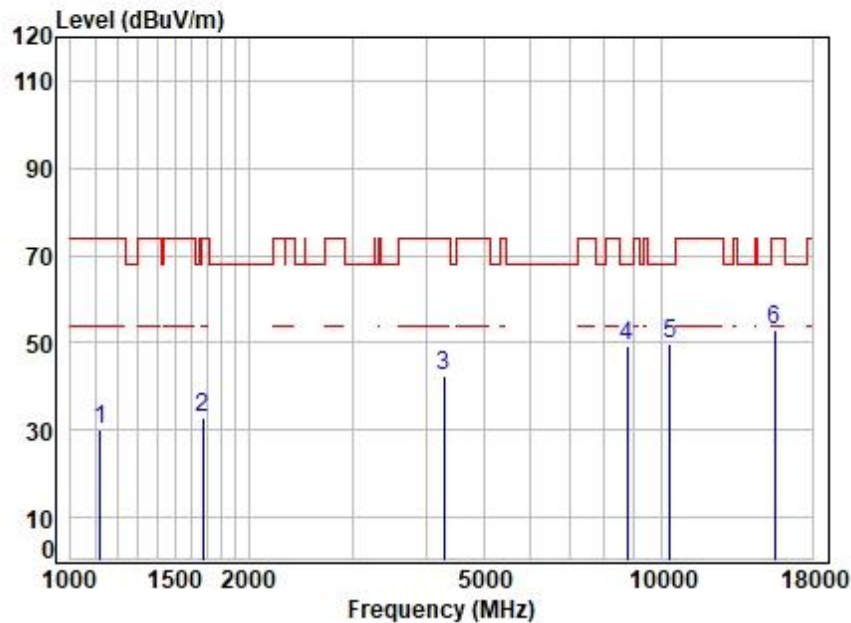
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1122.563 | 2.96 | 24.23 | 52.60 | 55.59 | 30.18 | 74.00 | -43.82 | peak |
| 2 | 1672.779 | 4.14 | 24.95 | 52.95 | 56.89 | 33.03 | 74.00 | -40.97 | peak |
| 3 | 4291.977 | 7.48 | 29.92 | 52.89 | 58.12 | 42.63 | 74.00 | -31.37 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 56.89 | 49.20 | 68.20 | -19.00 | peak |
| 5 | 10360.000 | 11.08 | 38.85 | 53.35 | 53.15 | 49.73 | 68.20 | -18.47 | peak |
| 6 | 15540.000 | 13.49 | 39.74 | 53.43 | 53.09 | 52.89 | 74.00 | -21.11 | peak |



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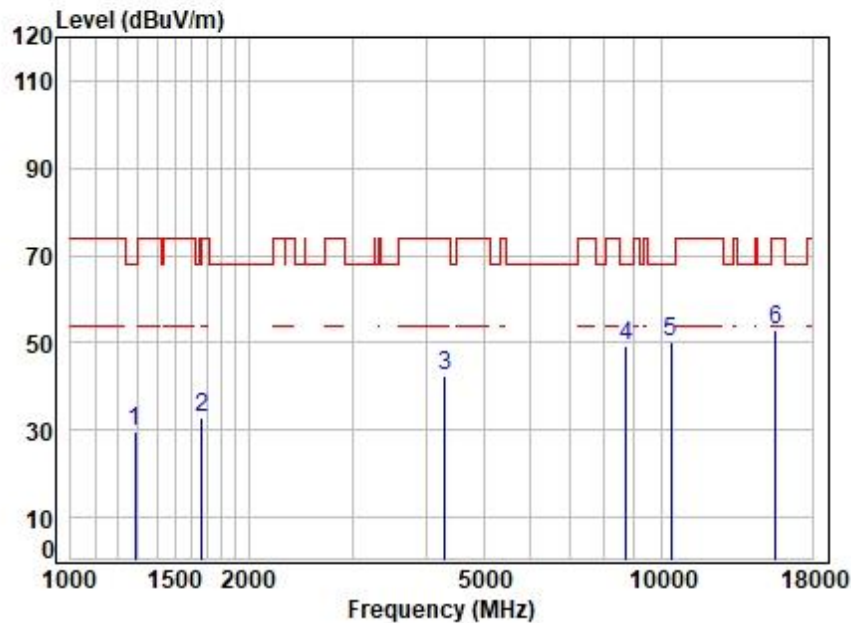
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1285.904 | 3.34 | 24.26 | 52.72 | 54.76 | 29.64 | 68.20 | -38.56 | peak |
| 2 | 1667.951 | 4.13 | 24.94 | 52.94 | 56.83 | 32.96 | 74.00 | -41.04 | peak |
| 3 | 4304.400 | 7.48 | 29.94 | 52.90 | 57.82 | 42.34 | 74.00 | -31.66 | peak |
| 4 | 8713.630 | 10.14 | 36.13 | 54.04 | 57.14 | 49.37 | 68.20 | -18.83 | peak |
| 5 | 10400.000 | 11.07 | 38.89 | 53.36 | 53.72 | 50.32 | 68.20 | -17.88 | peak |
| 6 | 15600.000 | 13.50 | 39.53 | 53.40 | 53.10 | 52.73 | 74.00 | -21.27 | peak |



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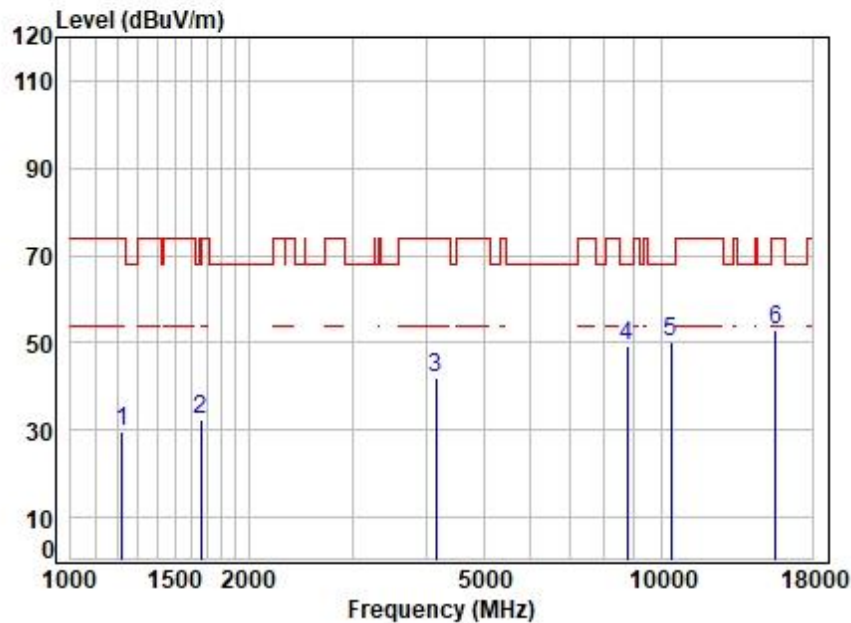
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|------|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| Freq | | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1220.714 | 3.20 | 24.29 | 52.67 | 54.81 | 29.63 | 74.00 | -44.37 | peak |
| 2 | 1658.337 | 4.11 | 24.92 | 52.94 | 56.45 | 32.54 | 68.20 | -35.66 | peak |
| 3 | 4157.664 | 7.48 | 29.73 | 52.85 | 57.41 | 41.77 | 74.00 | -32.23 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 57.03 | 49.34 | 68.20 | -18.86 | peak |
| 5 | 10400.000 | 11.07 | 38.89 | 53.36 | 53.44 | 50.04 | 68.20 | -18.16 | peak |
| 6 | 15600.000 | 13.50 | 39.53 | 53.40 | 53.44 | 53.07 | 74.00 | -20.93 | peak |



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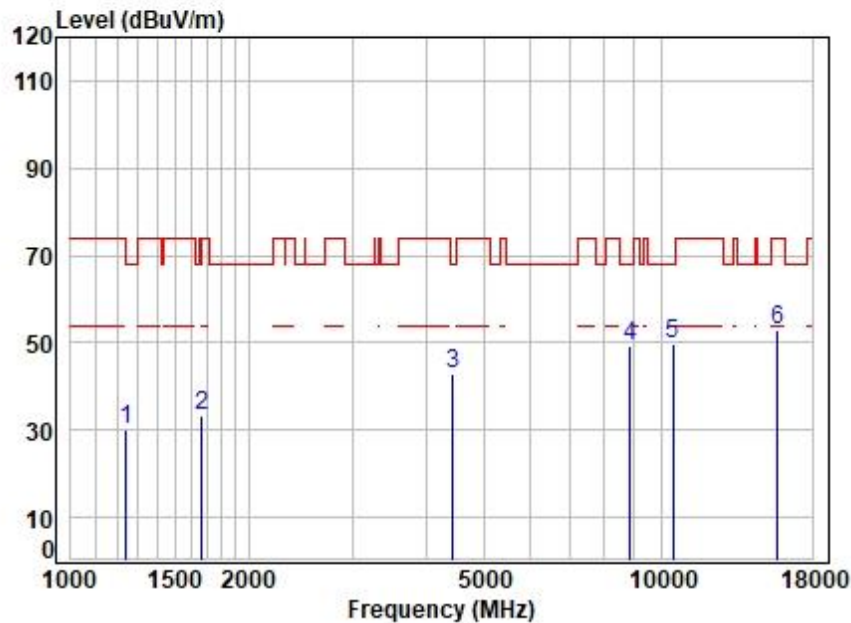
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 40 of 346

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1242.068 | 3.24 | 24.28 | 52.69 | 55.44 | 30.27 | 68.20 | -37.93 | peak |
| 2 | 1667.951 | 4.13 | 24.94 | 52.94 | 56.99 | 33.12 | 74.00 | -40.88 | peak |
| 3 | 4430.628 | 7.47 | 30.11 | 52.94 | 58.04 | 42.68 | 68.20 | -25.52 | peak |
| 4 | 8866.062 | 10.47 | 36.11 | 54.12 | 56.73 | 49.19 | 68.20 | -19.01 | peak |
| 5 | 10480.000 | 11.06 | 38.99 | 53.40 | 53.23 | 49.88 | 68.20 | -18.32 | peak |
| 6 | 15720.000 | 13.50 | 39.13 | 53.34 | 53.50 | 52.79 | 74.00 | -21.21 | peak |



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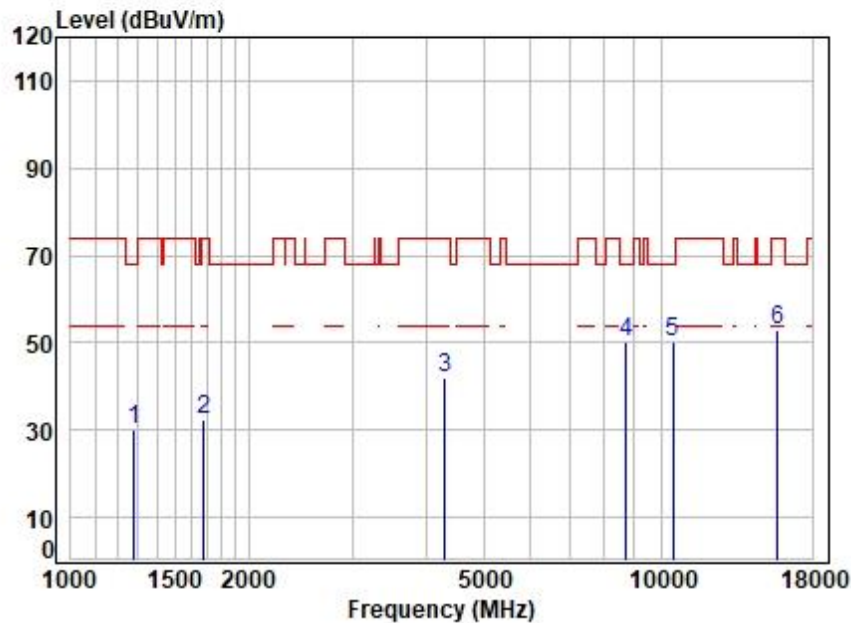
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1278.492 | 3.32 | 24.26 | 52.71 | 55.11 | 29.98 | 68.20 | -38.22 | peak |
| 2 | 1677.621 | 4.15 | 24.96 | 52.95 | 56.20 | 32.36 | 74.00 | -41.64 | peak |
| 3 | 4304.400 | 7.48 | 29.94 | 52.90 | 57.42 | 41.94 | 74.00 | -32.06 | peak |
| 4 | 8713.630 | 10.14 | 36.13 | 54.04 | 57.88 | 50.11 | 68.20 | -18.09 | peak |
| 5 | 10480.000 | 11.06 | 38.99 | 53.40 | 53.39 | 50.04 | 68.20 | -18.16 | peak |
| 6 | 15720.000 | 13.50 | 39.13 | 53.34 | 53.75 | 53.04 | 74.00 | -20.96 | peak |



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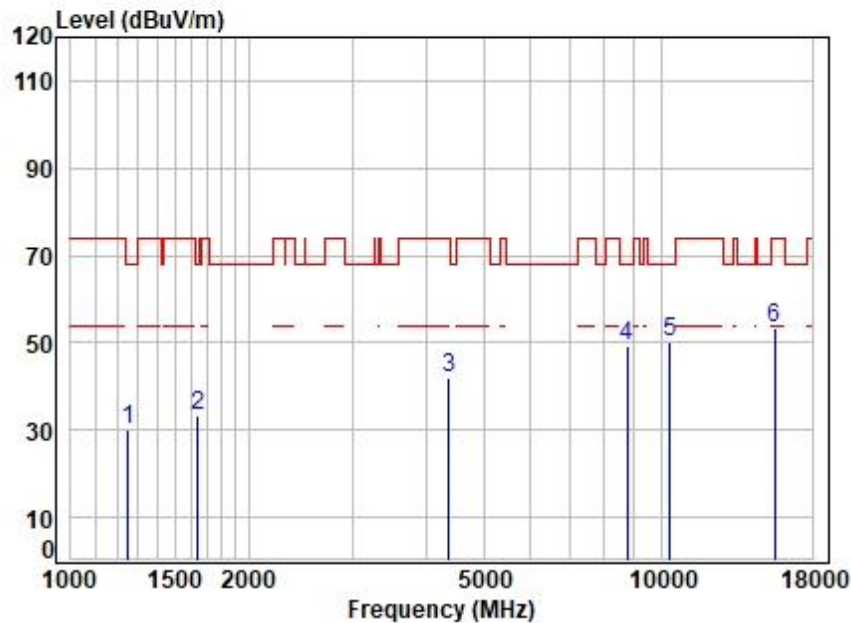
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1252.885 | 3.27 | 24.27 | 52.70 | 55.06 | 29.90 | 68.20 | -38.30 | peak |
| 2 | 1644.019 | 4.08 | 24.89 | 52.93 | 57.21 | 33.25 | 68.20 | -34.95 | peak |
| 3 | 4367.058 | 7.48 | 30.02 | 52.92 | 57.36 | 41.94 | 74.00 | -32.06 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.14 | 49.40 | 68.20 | -18.80 | peak |
| 5 | 10360.000 | 11.08 | 38.85 | 53.35 | 53.50 | 50.08 | 68.20 | -18.12 | peak |
| 6 | 15540.000 | 13.49 | 39.74 | 53.43 | 53.58 | 53.38 | 74.00 | -20.62 | peak |



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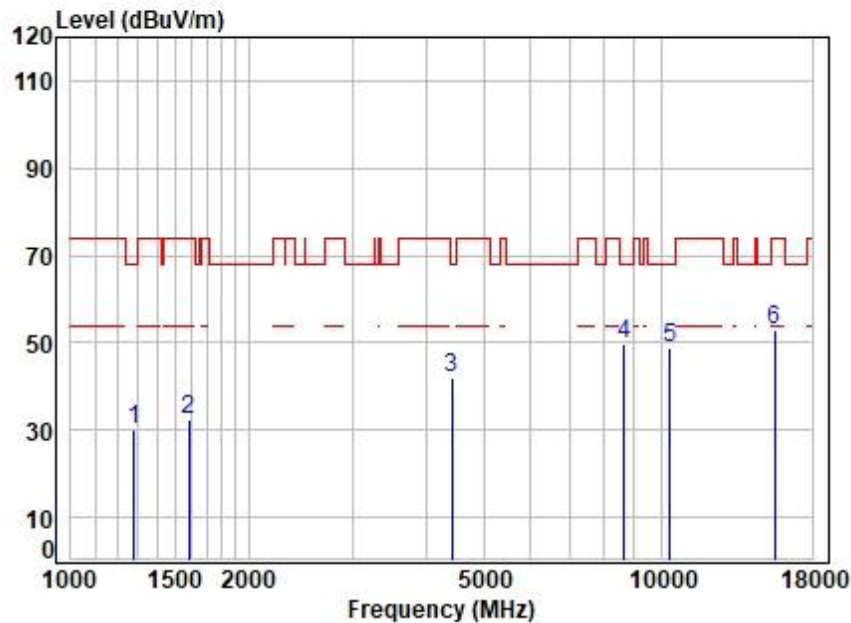
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1282.193 | 3.33 | 24.26 | 52.72 | 55.44 | 30.31 | 68.20 | -37.89 | peak |
| 2 | 1587.975 | 3.96 | 24.77 | 52.90 | 56.50 | 32.33 | 74.00 | -41.67 | peak |
| 3 | 4417.841 | 7.47 | 30.09 | 52.93 | 57.25 | 41.88 | 68.20 | -26.32 | peak |
| 4 | 8638.399 | 9.98 | 36.13 | 53.99 | 57.59 | 49.71 | 68.20 | -18.49 | peak |
| 5 | 10360.000 | 11.08 | 38.85 | 53.35 | 52.20 | 48.78 | 68.20 | -19.42 | peak |
| 6 | 15540.000 | 13.49 | 39.74 | 53.43 | 53.01 | 52.81 | 74.00 | -21.19 | peak |



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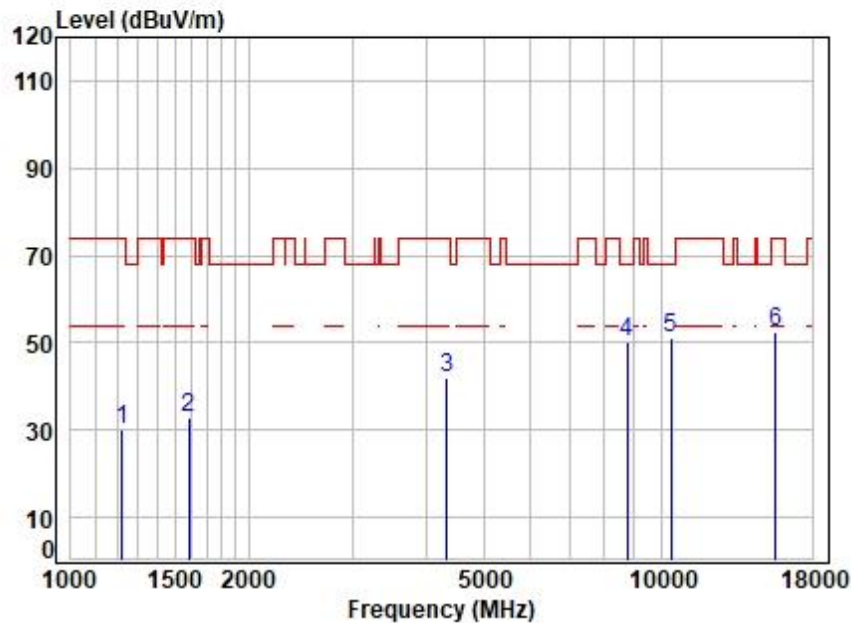
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1224.247 | 3.20 | 24.29 | 52.68 | 55.36 | 30.17 | 74.00 | -43.83 | peak |
| 2 | 1583.392 | 3.95 | 24.75 | 52.90 | 57.18 | 32.98 | 74.00 | -41.02 | peak |
| 3 | 4341.886 | 7.48 | 29.99 | 52.91 | 57.53 | 42.09 | 74.00 | -31.91 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 57.93 | 50.24 | 68.20 | -17.96 | peak |
| 5 | 10400.000 | 11.07 | 38.89 | 53.36 | 54.31 | 50.91 | 68.20 | -17.29 | peak |
| 6 | 15600.000 | 13.50 | 39.53 | 53.40 | 53.01 | 52.64 | 74.00 | -21.36 | peak |



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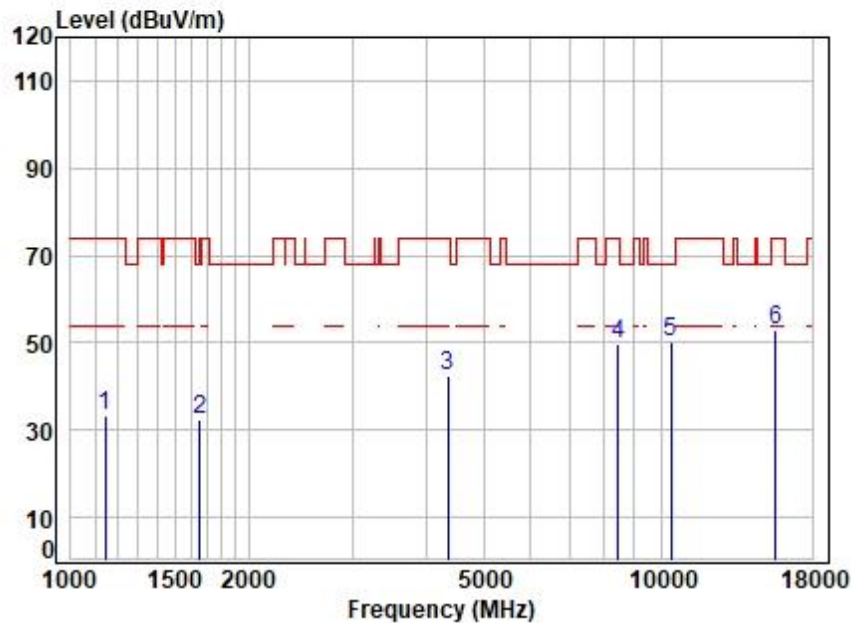
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 3.02 | 24.25 | 52.62 | 58.80 | 33.45 | 74.00 | -40.55 | peak |
| 2 | 1653.550 | 4.10 | 24.91 | 52.94 | 56.35 | 32.42 | 68.20 | -35.78 | peak |
| 3 | 4354.454 | 7.48 | 30.00 | 52.91 | 57.71 | 42.28 | 74.00 | -31.72 | peak |
| 4 | 8440.945 | 9.64 | 36.15 | 53.87 | 57.85 | 49.77 | 74.00 | -24.23 | peak |
| 5 | 10400.000 | 11.07 | 38.89 | 53.36 | 53.69 | 50.29 | 68.20 | -17.91 | peak |
| 6 | 15600.000 | 13.50 | 39.53 | 53.40 | 53.49 | 53.12 | 74.00 | -20.88 | peak |



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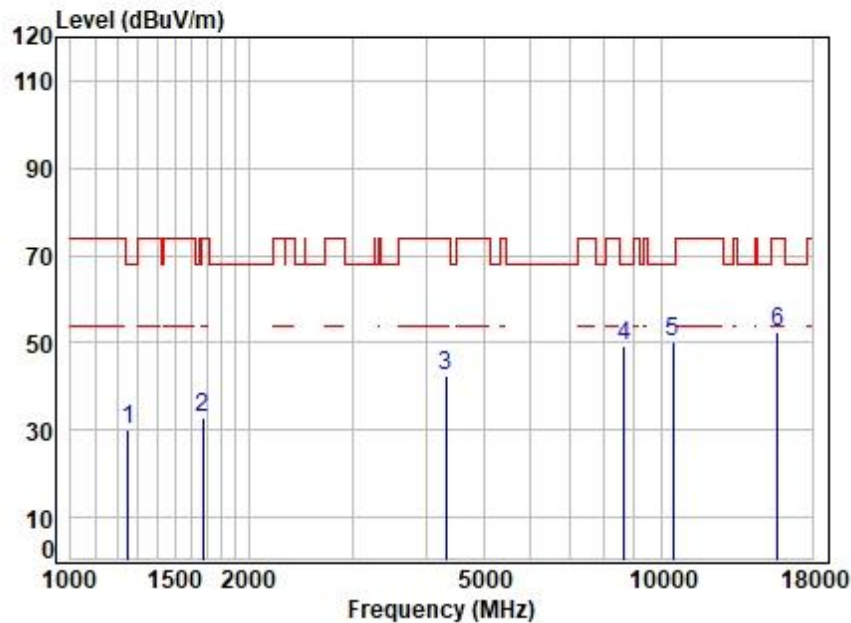
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Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1249.269 | 3.26 | 24.27 | 52.69 | 55.34 | 30.18 | 68.20 | -38.02 | peak |
| 2 | 1672.779 | 4.14 | 24.95 | 52.95 | 56.62 | 32.76 | 74.00 | -41.24 | peak |
| 3 | 4316.859 | 7.48 | 29.95 | 52.90 | 57.94 | 42.47 | 74.00 | -31.53 | peak |
| 4 | 8638.399 | 9.98 | 36.13 | 53.99 | 57.03 | 49.15 | 68.20 | -19.05 | peak |
| 5 | 10480.000 | 11.06 | 38.99 | 53.40 | 53.44 | 50.09 | 68.20 | -18.11 | peak |
| 6 | 15720.000 | 13.50 | 39.13 | 53.34 | 53.28 | 52.57 | 74.00 | -21.43 | peak |



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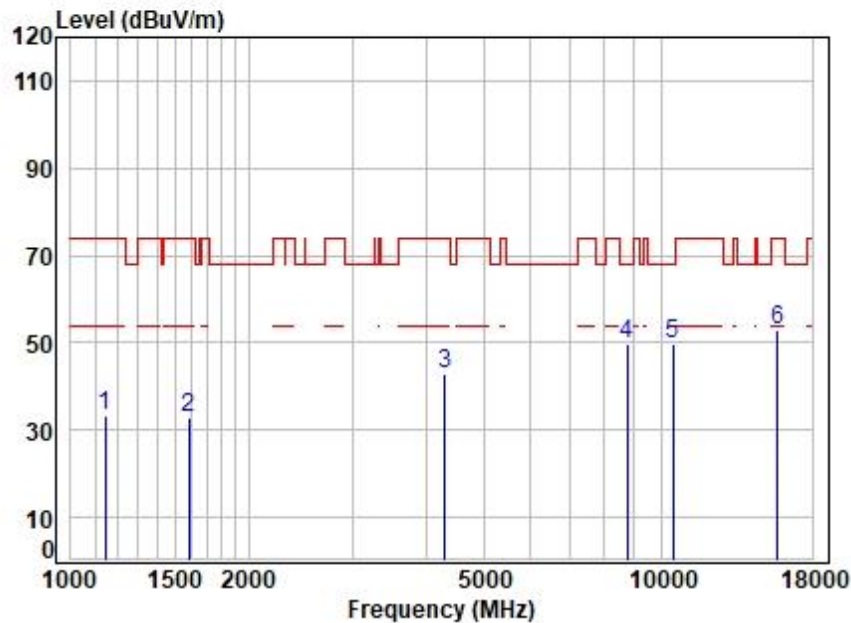
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 3.02 | 24.25 | 52.62 | 58.65 | 33.30 | 74.00 | -40.70 | peak |
| 2 | 1587.975 | 3.96 | 24.77 | 52.90 | 56.90 | 32.73 | 74.00 | -41.27 | peak |
| 3 | 4304.400 | 7.48 | 29.94 | 52.90 | 58.24 | 42.76 | 74.00 | -31.24 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 57.35 | 49.66 | 68.20 | -18.54 | peak |
| 5 | 10480.000 | 11.06 | 38.99 | 53.40 | 53.10 | 49.75 | 68.20 | -18.45 | peak |
| 6 | 15720.000 | 13.50 | 39.13 | 53.34 | 53.45 | 52.74 | 74.00 | -21.26 | peak |



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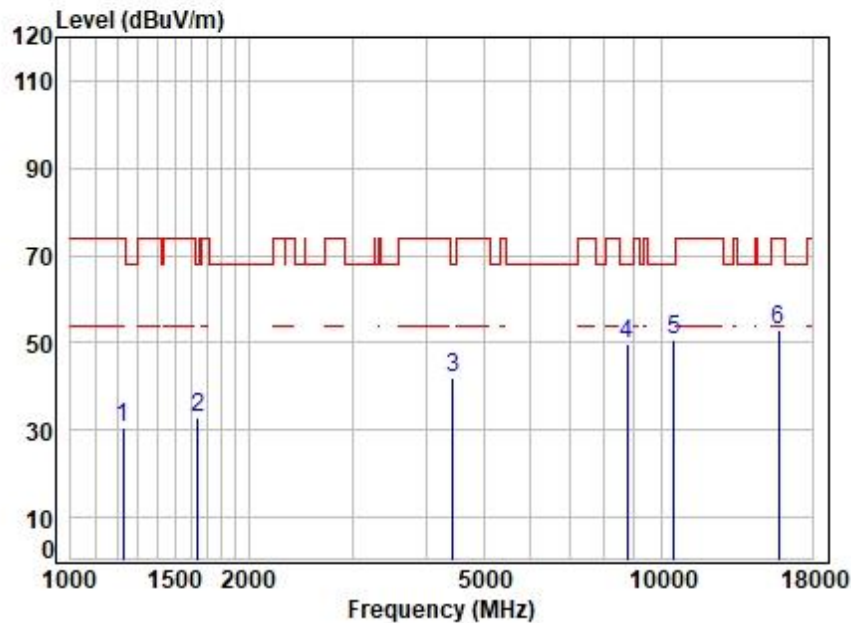
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1227.791 | 3.21 | 24.29 | 52.68 | 55.86 | 30.68 | 74.00 | -43.32 | peak |
| 2 | 1644.019 | 4.08 | 24.89 | 52.93 | 56.67 | 32.71 | 68.20 | -35.49 | peak |
| 3 | 4443.453 | 7.47 | 30.12 | 52.94 | 57.55 | 42.20 | 68.20 | -26.00 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.37 | 49.63 | 68.20 | -18.57 | peak |
| 5 | 10520.000 | 11.07 | 39.04 | 53.41 | 53.96 | 50.66 | 68.20 | -17.54 | peak |
| 6 | 15780.000 | 13.51 | 38.93 | 53.31 | 53.75 | 52.88 | 74.00 | -21.12 | peak |



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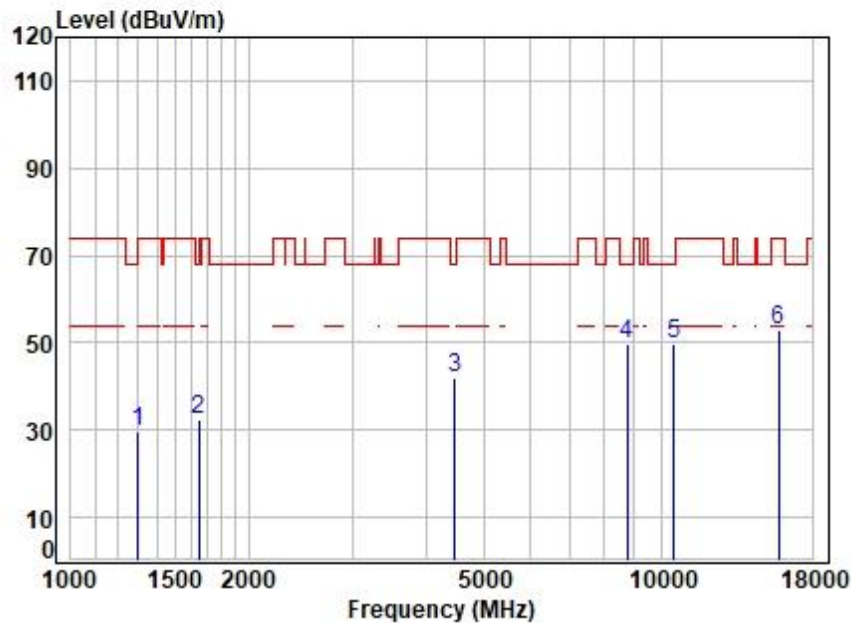
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1300.858 | 3.37 | 24.25 | 52.73 | 54.90 | 29.79 | 74.00 | -44.21 | peak |
| 2 | 1648.778 | 4.09 | 24.90 | 52.93 | 56.12 | 32.18 | 68.20 | -36.02 | peak |
| 3 | 4469.214 | 7.47 | 30.16 | 52.95 | 57.20 | 41.88 | 68.20 | -26.32 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.29 | 49.55 | 68.20 | -18.65 | peak |
| 5 | 10520.000 | 11.07 | 39.04 | 53.41 | 52.92 | 49.62 | 68.20 | -18.58 | peak |
| 6 | 15780.000 | 13.51 | 38.93 | 53.31 | 53.66 | 52.79 | 74.00 | -21.21 | peak |



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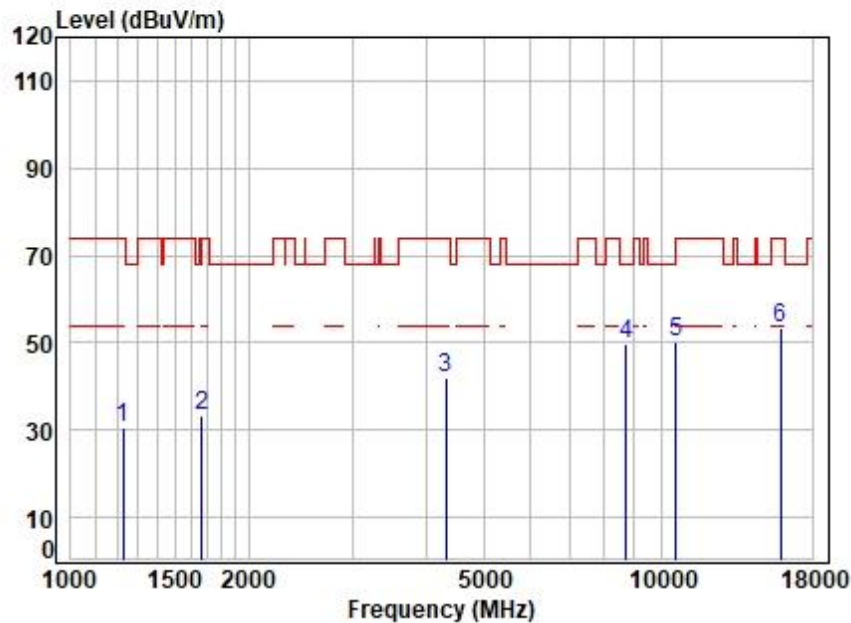
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1227.791 | 3.21 | 24.29 | 52.68 | 55.74 | 30.56 | 74.00 | -43.44 | peak |
| 2 | 1667.951 | 4.13 | 24.94 | 52.94 | 57.28 | 33.41 | 74.00 | -40.59 | peak |
| 3 | 4316.859 | 7.48 | 29.95 | 52.90 | 57.67 | 42.20 | 74.00 | -31.80 | peak |
| 4 | 8713.630 | 10.14 | 36.13 | 54.04 | 57.28 | 49.51 | 68.20 | -18.69 | peak |
| 5 | 10600.000 | 11.12 | 39.13 | 53.44 | 53.45 | 50.26 | 68.20 | -17.94 | peak |
| 6 | 15900.000 | 13.51 | 38.53 | 53.25 | 54.44 | 53.23 | 74.00 | -20.77 | peak |



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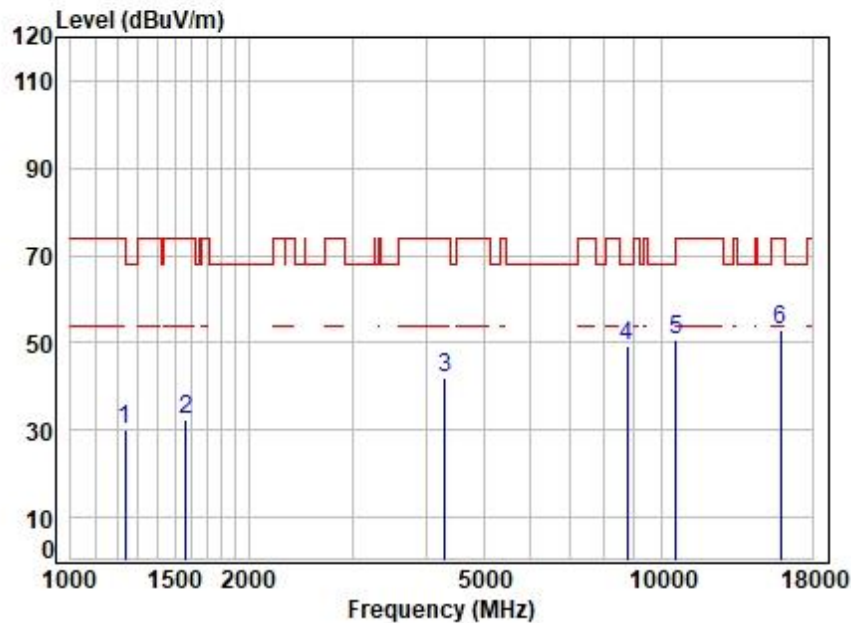
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 51 of 346

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1238.483 | 3.24 | 24.28 | 52.69 | 55.42 | 30.25 | 74.00 | -43.75 | peak |
| 2 | 1569.721 | 3.92 | 24.71 | 52.89 | 56.60 | 32.34 | 74.00 | -41.66 | peak |
| 3 | 4304.400 | 7.48 | 29.94 | 52.90 | 57.42 | 41.94 | 74.00 | -32.06 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 56.98 | 49.29 | 68.20 | -18.91 | peak |
| 5 | 10600.000 | 11.12 | 39.13 | 53.44 | 53.99 | 50.80 | 68.20 | -17.40 | peak |
| 6 | 15900.000 | 13.51 | 38.53 | 53.25 | 53.92 | 52.71 | 74.00 | -21.29 | peak |



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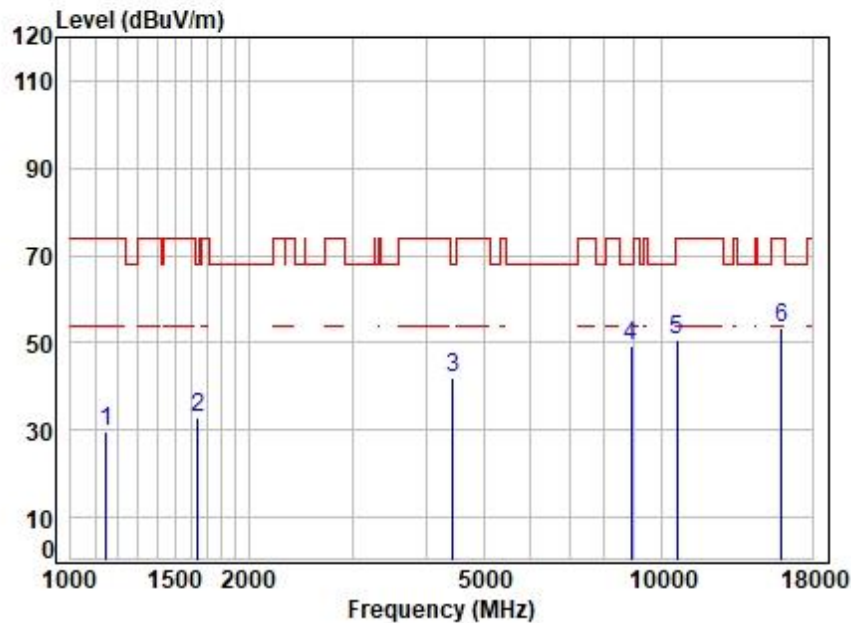
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1148.823 | 3.03 | 24.25 | 52.62 | 55.10 | 29.76 | 74.00 | -44.24 | peak |
| 2 | 1644.019 | 4.08 | 24.89 | 52.93 | 56.84 | 32.88 | 68.20 | -35.32 | peak |
| 3 | 4443.453 | 7.47 | 30.12 | 52.94 | 57.52 | 42.17 | 68.20 | -26.03 | peak |
| 4 | 8891.725 | 10.52 | 36.11 | 54.14 | 56.90 | 49.39 | 68.20 | -18.81 | peak |
| 5 | 10640.000 | 11.15 | 39.18 | 53.46 | 53.75 | 50.62 | 74.00 | -23.38 | peak |
| 6 | 15960.000 | 13.52 | 38.33 | 53.22 | 54.70 | 53.33 | 74.00 | -20.67 | peak |



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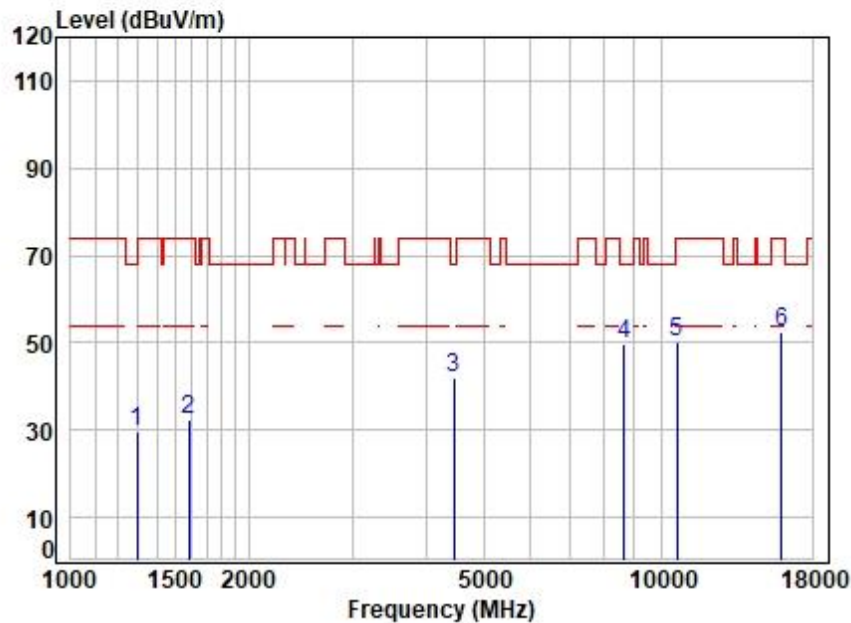
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 53 of 346

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1297.103 | 3.36 | 24.25 | 52.73 | 54.66 | 29.54 | 68.20 | -38.66 | peak |
| 2 | 1583.392 | 3.95 | 24.75 | 52.90 | 56.78 | 32.58 | 74.00 | -41.42 | peak |
| 3 | 4456.315 | 7.47 | 30.14 | 52.95 | 57.46 | 42.12 | 68.20 | -26.08 | peak |
| 4 | 8638.399 | 9.98 | 36.13 | 53.99 | 57.69 | 49.81 | 68.20 | -18.39 | peak |
| 5 | 10640.000 | 11.15 | 39.18 | 53.46 | 53.21 | 50.08 | 74.00 | -23.92 | peak |
| 6 | 15960.000 | 13.52 | 38.33 | 53.22 | 53.96 | 52.59 | 74.00 | -21.41 | peak |



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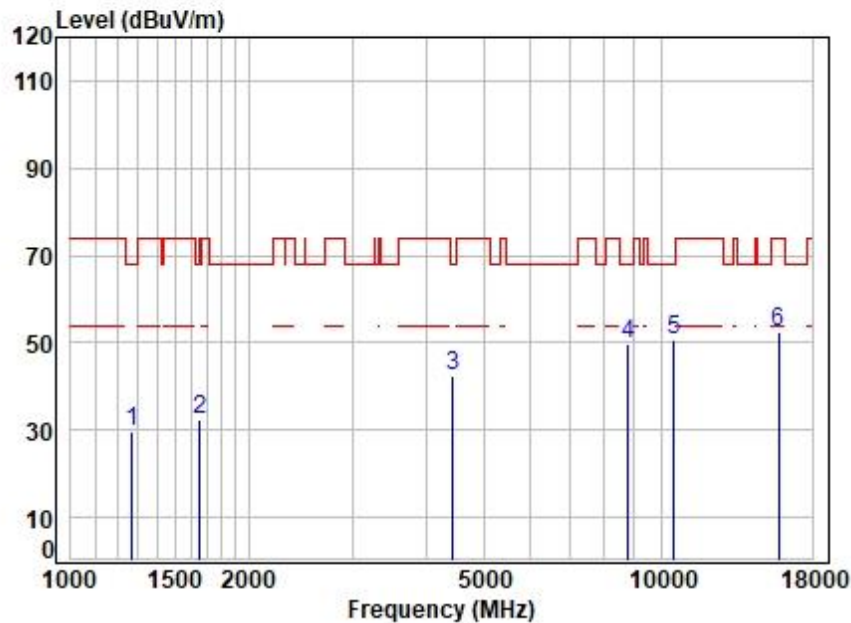
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1271.123 | 3.31 | 24.26 | 52.71 | 54.93 | 29.79 | 68.20 | -38.41 | peak |
| 2 | 1653.550 | 4.10 | 24.91 | 52.94 | 56.48 | 32.55 | 68.20 | -35.65 | peak |
| 3 | 4430.628 | 7.47 | 30.11 | 52.94 | 57.71 | 42.35 | 68.20 | -25.85 | peak |
| 4 | 8789.516 | 10.30 | 36.12 | 54.08 | 57.27 | 49.61 | 68.20 | -18.59 | peak |
| 5 | 10520.000 | 11.07 | 39.04 | 53.41 | 53.91 | 50.61 | 68.20 | -17.59 | peak |
| 6 | 15780.000 | 13.51 | 38.93 | 53.31 | 53.48 | 52.61 | 74.00 | -21.39 | peak |



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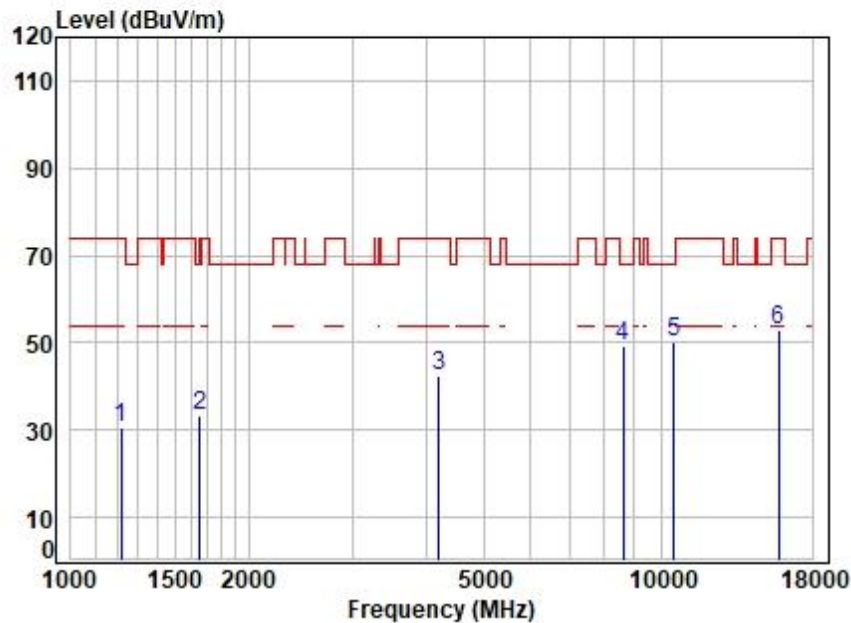
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1217.190 | 3.19 | 24.29 | 52.67 | 55.62 | 30.43 | 74.00 | -43.57 | peak |
| 2 | 1653.550 | 4.10 | 24.91 | 52.94 | 57.19 | 33.26 | 68.20 | -34.94 | peak |
| 3 | 4206.011 | 7.48 | 29.80 | 52.87 | 58.20 | 42.61 | 74.00 | -31.39 | peak |
| 4 | 8613.468 | 9.92 | 36.14 | 53.98 | 57.32 | 49.40 | 68.20 | -18.80 | peak |
| 5 | 10520.000 | 11.07 | 39.04 | 53.41 | 53.43 | 50.13 | 68.20 | -18.07 | peak |
| 6 | 15780.000 | 13.51 | 38.93 | 53.31 | 53.65 | 52.78 | 74.00 | -21.22 | peak |



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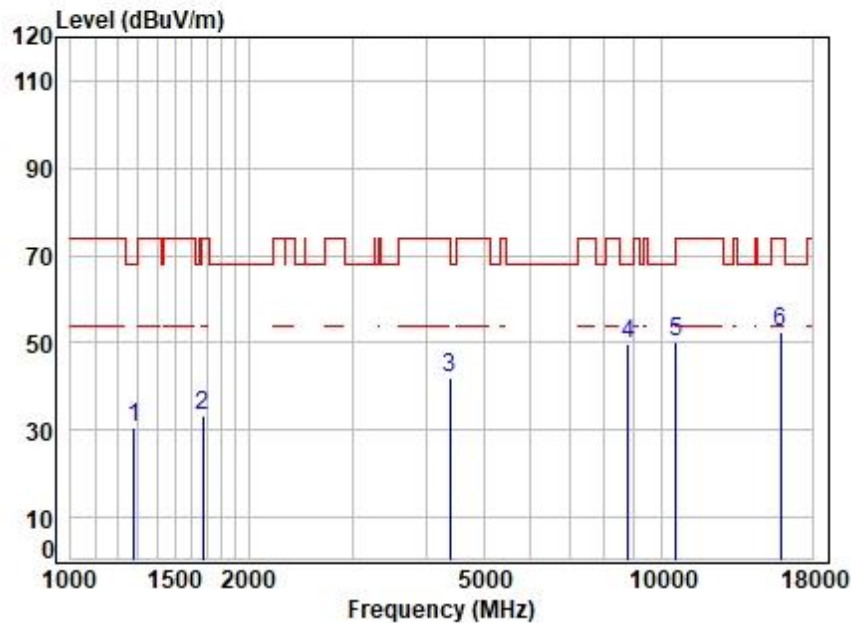
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1282.193 | 3.33 | 24.26 | 52.72 | 55.56 | 30.43 | 68.20 | -37.77 | peak |
| 2 | 1672.779 | 4.14 | 24.95 | 52.95 | 57.34 | 33.48 | 74.00 | -40.52 | peak |
| 3 | 4392.376 | 7.47 | 30.06 | 52.93 | 57.45 | 42.05 | 74.00 | -31.95 | peak |
| 4 | 8789.516 | 10.30 | 36.12 | 54.08 | 57.22 | 49.56 | 68.20 | -18.64 | peak |
| 5 | 10600.000 | 11.12 | 39.13 | 53.44 | 53.47 | 50.28 | 68.20 | -17.92 | peak |
| 6 | 15900.000 | 13.51 | 38.53 | 53.25 | 53.85 | 52.64 | 74.00 | -21.36 | peak |



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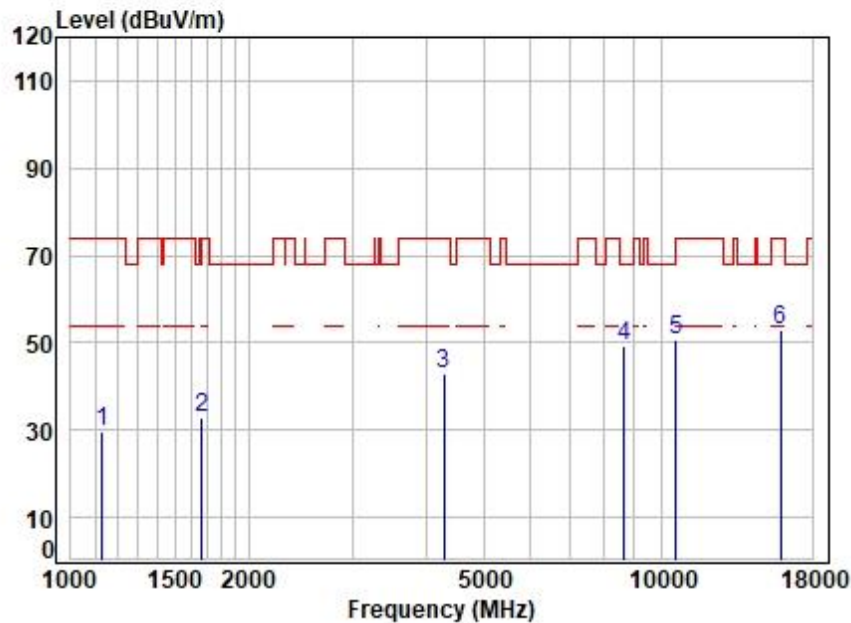
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1132.340 | 2.99 | 24.24 | 52.61 | 55.20 | 29.82 | 74.00 | -44.18 | peak |
| 2 | 1667.951 | 4.13 | 24.94 | 52.94 | 56.85 | 32.98 | 74.00 | -41.02 | peak |
| 3 | 4291.977 | 7.48 | 29.92 | 52.89 | 58.36 | 42.87 | 74.00 | -31.13 | peak |
| 4 | 8663.404 | 10.03 | 36.13 | 54.01 | 57.18 | 49.33 | 68.20 | -18.87 | peak |
| 5 | 10600.000 | 11.12 | 39.13 | 53.44 | 53.72 | 50.53 | 68.20 | -17.67 | peak |
| 6 | 15900.000 | 13.51 | 38.53 | 53.25 | 54.34 | 53.13 | 74.00 | -20.87 | peak |



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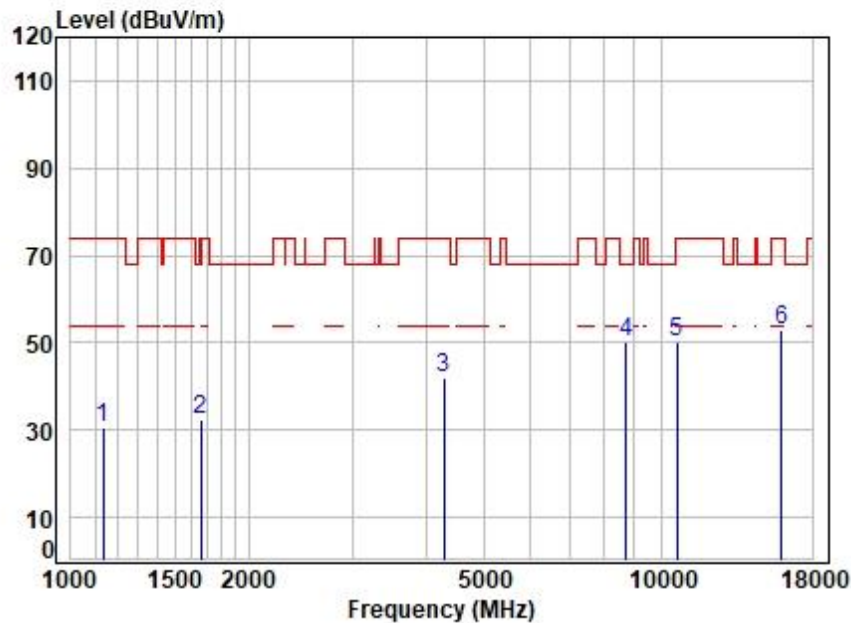
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5320 TX RSE
Note : 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1135.617 | 2.99 | 24.24 | 52.61 | 56.15 | 30.77 | 74.00 | -43.23 | peak |
| 2 | 1663.137 | 4.12 | 24.93 | 52.94 | 56.31 | 32.42 | 74.00 | -41.58 | peak |
| 3 | 4291.977 | 7.48 | 29.92 | 52.89 | 57.38 | 41.89 | 74.00 | -32.11 | peak |
| 4 | 8713.630 | 10.14 | 36.13 | 54.04 | 57.82 | 50.05 | 68.20 | -18.15 | peak |
| 5 | 10640.000 | 11.15 | 39.18 | 53.46 | 53.39 | 50.26 | 74.00 | -23.74 | peak |
| 6 | 15960.000 | 13.52 | 38.33 | 53.22 | 54.49 | 53.12 | 74.00 | -20.88 | peak |



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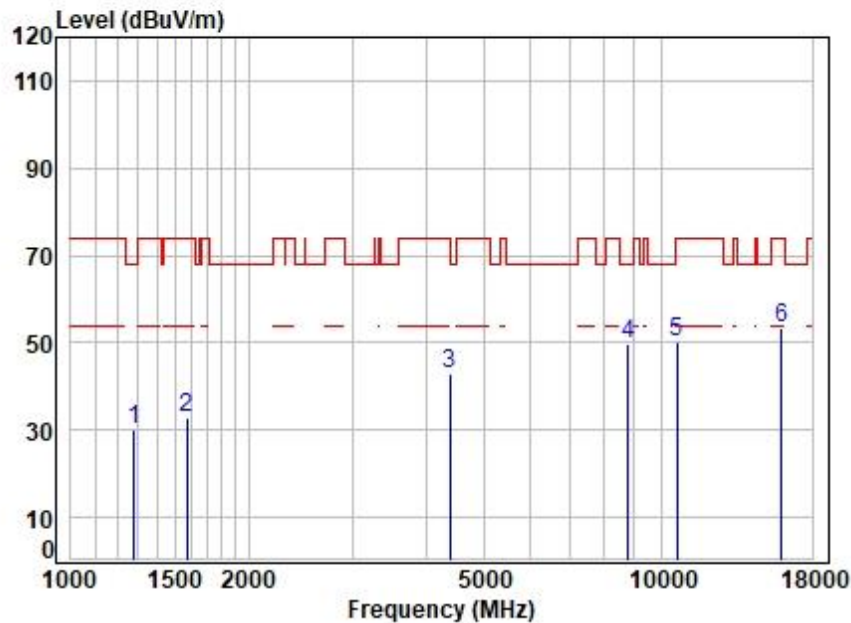
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5320 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1282.193 | 3.33 | 24.26 | 52.72 | 55.36 | 30.23 | 68.20 | -37.97 | peak |
| 2 | 1574.265 | 3.93 | 24.73 | 52.89 | 57.18 | 32.95 | 74.00 | -41.05 | peak |
| 3 | 4392.376 | 7.47 | 30.06 | 52.93 | 58.43 | 43.03 | 74.00 | -30.97 | peak |
| 4 | 8789.516 | 10.30 | 36.12 | 54.08 | 57.25 | 49.59 | 68.20 | -18.61 | peak |
| 5 | 10640.000 | 11.15 | 39.18 | 53.46 | 53.12 | 49.99 | 74.00 | -24.01 | peak |
| 6 | 15960.000 | 13.52 | 38.33 | 53.22 | 54.91 | 53.54 | 74.00 | -20.46 | peak |



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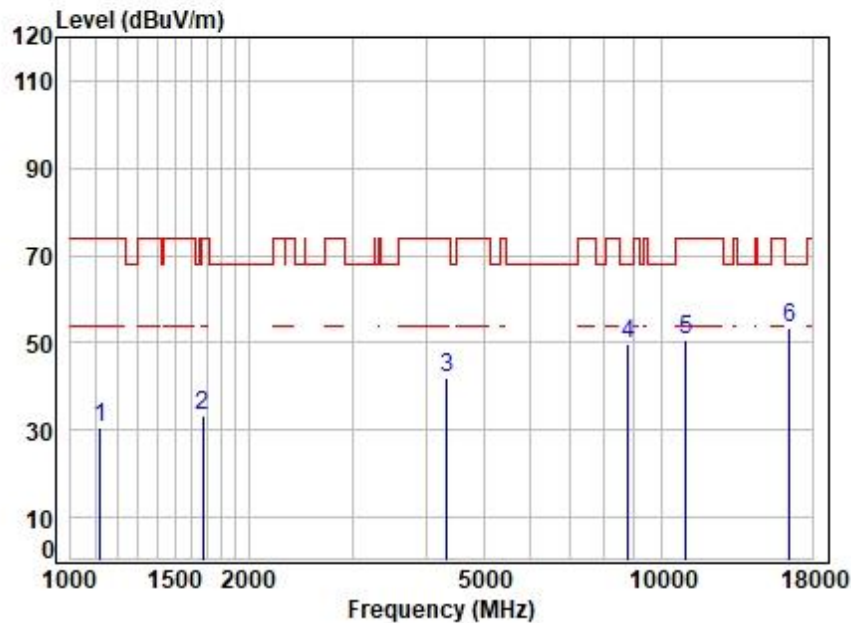
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 60 of 346

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1122.563 | 2.96 | 24.23 | 52.60 | 55.88 | 30.47 | 74.00 | -43.53 | peak |
| 2 | 1672.779 | 4.14 | 24.95 | 52.95 | 57.17 | 33.31 | 74.00 | -40.69 | peak |
| 3 | 4341.886 | 7.48 | 29.99 | 52.91 | 57.59 | 42.15 | 74.00 | -31.85 | peak |
| 4 | 8789.516 | 10.30 | 36.12 | 54.08 | 57.46 | 49.80 | 68.20 | -18.40 | peak |
| 5 | 11000.000 | 11.36 | 39.60 | 53.60 | 53.18 | 50.54 | 74.00 | -23.46 | peak |
| 6 | 16500.000 | 14.69 | 39.93 | 52.90 | 51.67 | 53.39 | 68.20 | -14.81 | peak |



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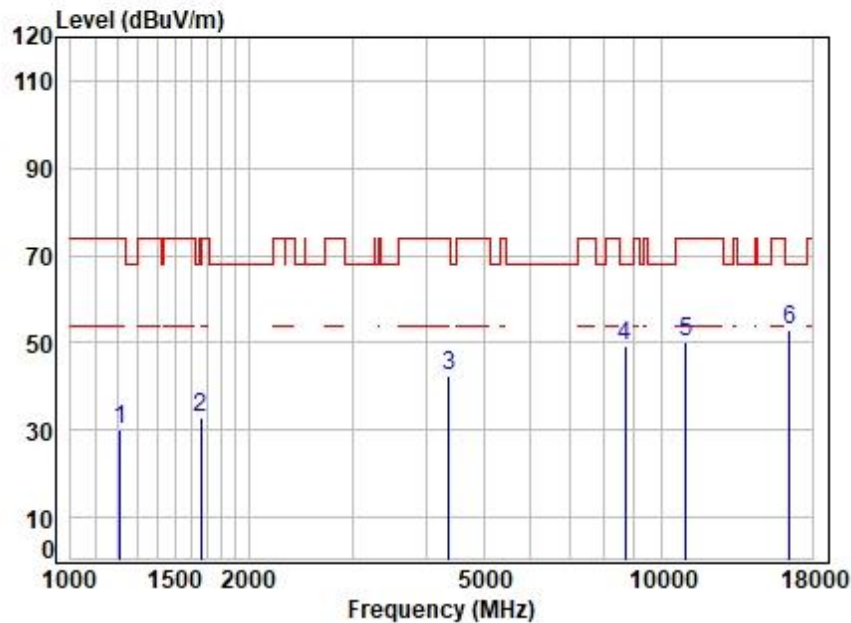
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1213.677 | 3.18 | 24.29 | 52.67 | 55.22 | 30.02 | 74.00 | -43.98 | peak |
| 2 | 1663.137 | 4.12 | 24.93 | 52.94 | 56.58 | 32.69 | 74.00 | -41.31 | peak |
| 3 | 4367.058 | 7.48 | 30.02 | 52.92 | 57.77 | 42.35 | 74.00 | -31.65 | peak |
| 4 | 8688.480 | 10.08 | 36.13 | 54.02 | 57.04 | 49.23 | 68.20 | -18.97 | peak |
| 5 | 11000.000 | 11.36 | 39.60 | 53.60 | 52.70 | 50.06 | 74.00 | -23.94 | peak |
| 6 | 16500.000 | 14.69 | 39.93 | 52.90 | 51.38 | 53.10 | 68.20 | -15.10 | peak |



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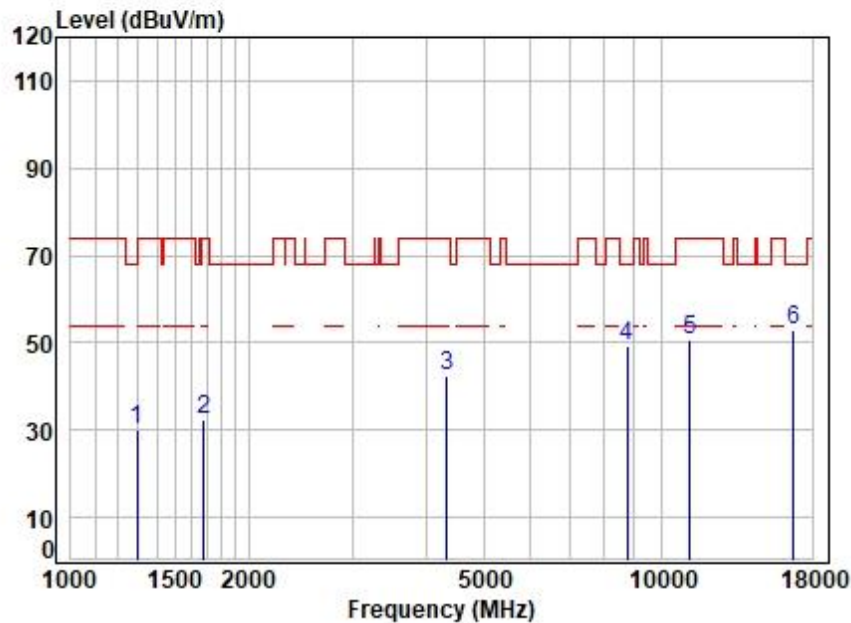
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Report No.: FYCR230100000905

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1293.359 | 3.36 | 24.25 | 52.72 | 55.00 | 29.89 | 68.20 | -38.31 | peak |
| 2 | 1677.621 | 4.15 | 24.96 | 52.95 | 56.44 | 32.60 | 74.00 | -41.40 | peak |
| 3 | 4341.886 | 7.48 | 29.99 | 52.91 | 57.87 | 42.43 | 74.00 | -31.57 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 57.09 | 49.40 | 68.20 | -18.80 | peak |
| 5 | 11160.000 | 11.44 | 39.63 | 53.67 | 53.45 | 50.85 | 74.00 | -23.15 | peak |
| 6 | 16740.000 | 14.50 | 40.74 | 52.75 | 50.38 | 52.87 | 68.20 | -15.33 | peak |



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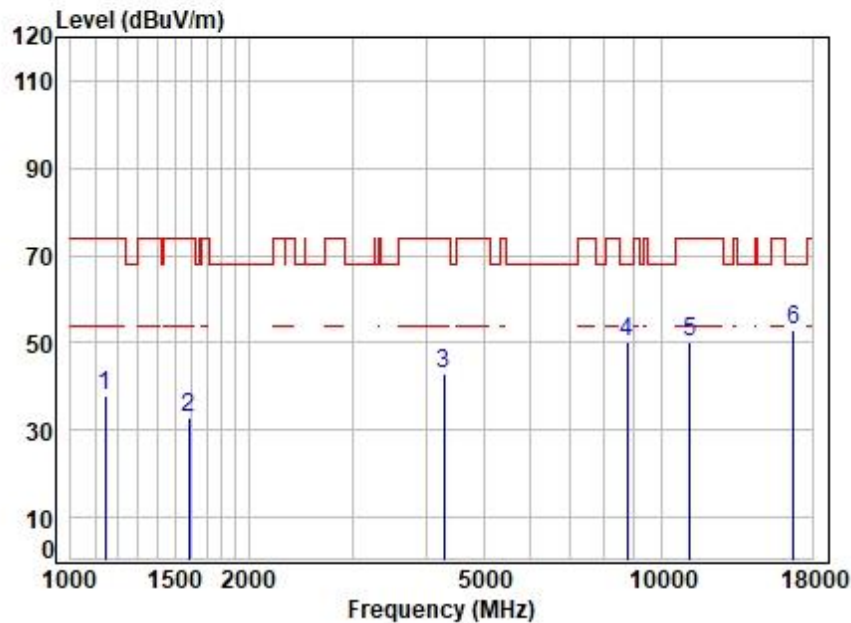
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR230100000905

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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 3.02 | 24.25 | 52.62 | 63.02 | 37.67 | 74.00 | -36.33 | peak |
| 2 | 1583.392 | 3.95 | 24.75 | 52.90 | 56.91 | 32.71 | 74.00 | -41.29 | peak |
| 3 | 4279.589 | 7.48 | 29.90 | 52.89 | 58.22 | 42.71 | 74.00 | -31.29 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 57.79 | 50.10 | 68.20 | -18.10 | peak |
| 5 | 11160.000 | 11.44 | 39.63 | 53.67 | 52.59 | 49.99 | 74.00 | -24.01 | peak |
| 6 | 16740.000 | 14.50 | 40.74 | 52.75 | 50.23 | 52.72 | 68.20 | -15.48 | peak |



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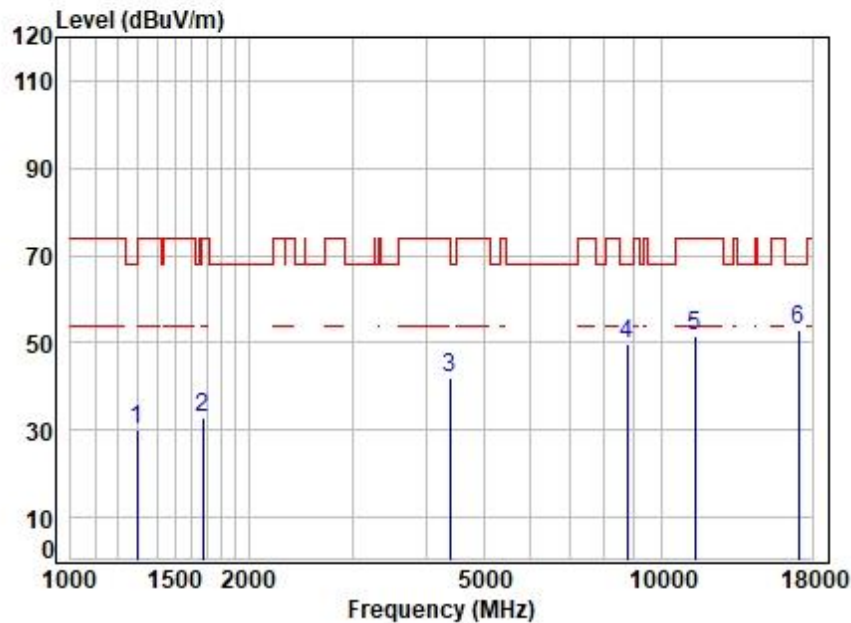
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 64 of 346

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1293.359 | 3.36 | 24.25 | 52.72 | 55.10 | 29.99 | 68.20 | -38.21 | peak |
| 2 | 1672.779 | 4.14 | 24.95 | 52.95 | 56.80 | 32.94 | 74.00 | -41.06 | peak |
| 3 | 4379.699 | 7.47 | 30.04 | 52.92 | 57.57 | 42.16 | 74.00 | -31.84 | peak |
| 4 | 8764.146 | 10.25 | 36.12 | 54.06 | 57.54 | 49.85 | 68.20 | -18.35 | peak |
| 5 | 11400.000 | 11.55 | 39.68 | 53.76 | 54.03 | 51.50 | 74.00 | -22.50 | peak |
| 6 | 17100.000 | 14.34 | 42.14 | 52.54 | 49.15 | 53.09 | 68.20 | -15.11 | peak |



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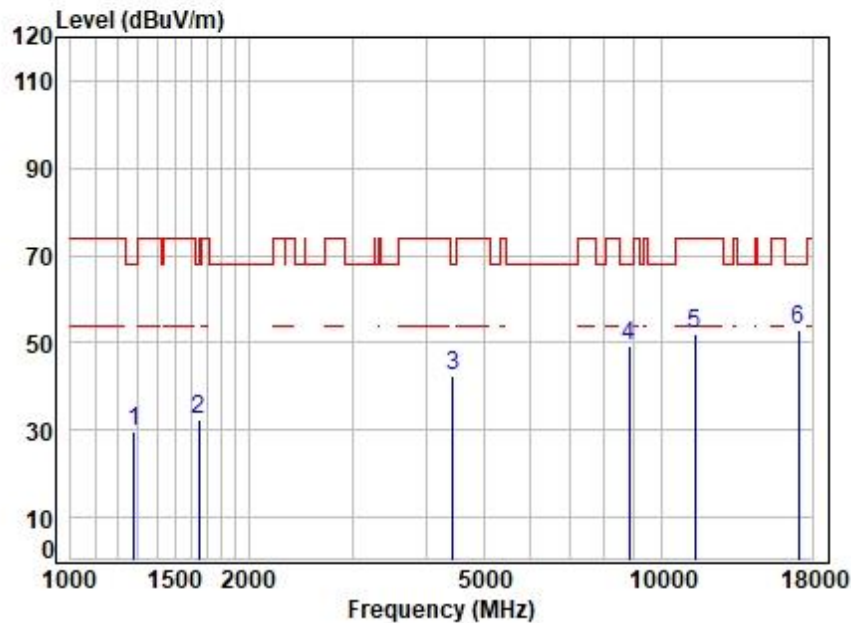
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 65 of 346

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1282.193 | 3.33 | 24.26 | 52.72 | 54.98 | 29.85 | 68.20 | -38.35 | peak |
| 2 | 1648.778 | 4.09 | 24.90 | 52.93 | 56.36 | 32.42 | 68.20 | -35.78 | peak |
| 3 | 4443.453 | 7.47 | 30.12 | 52.94 | 57.64 | 42.29 | 68.20 | -25.91 | peak |
| 4 | 8814.957 | 10.36 | 36.12 | 54.09 | 56.94 | 49.33 | 68.20 | -18.87 | peak |
| 5 | 11400.000 | 11.55 | 39.68 | 53.76 | 54.45 | 51.92 | 74.00 | -22.08 | peak |
| 6 | 17100.000 | 14.34 | 42.14 | 52.54 | 48.81 | 52.75 | 68.20 | -15.45 | peak |



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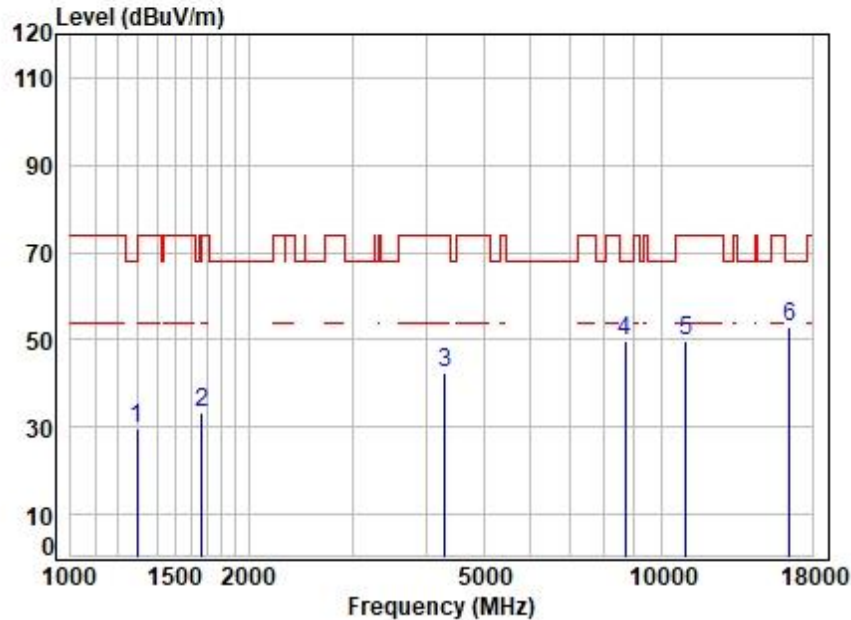
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 66 of 346

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1297.103 | 3.36 | 24.25 | 52.73 | 54.88 | 29.76 | 68.20 | -38.44 | peak |
| 2 | 1667.951 | 4.13 | 24.94 | 52.94 | 57.30 | 33.43 | 74.00 | -40.57 | peak |
| 3 | 4304.400 | 7.48 | 29.94 | 52.90 | 58.10 | 42.62 | 74.00 | -31.38 | peak |
| 4 | 8688.480 | 10.08 | 36.13 | 54.02 | 57.45 | 49.64 | 68.20 | -18.56 | peak |
| 5 | 11000.000 | 11.36 | 39.60 | 53.60 | 52.25 | 49.61 | 74.00 | -24.39 | peak |
| 6 | 16500.000 | 14.69 | 39.93 | 52.90 | 51.41 | 53.13 | 68.20 | -15.07 | peak |



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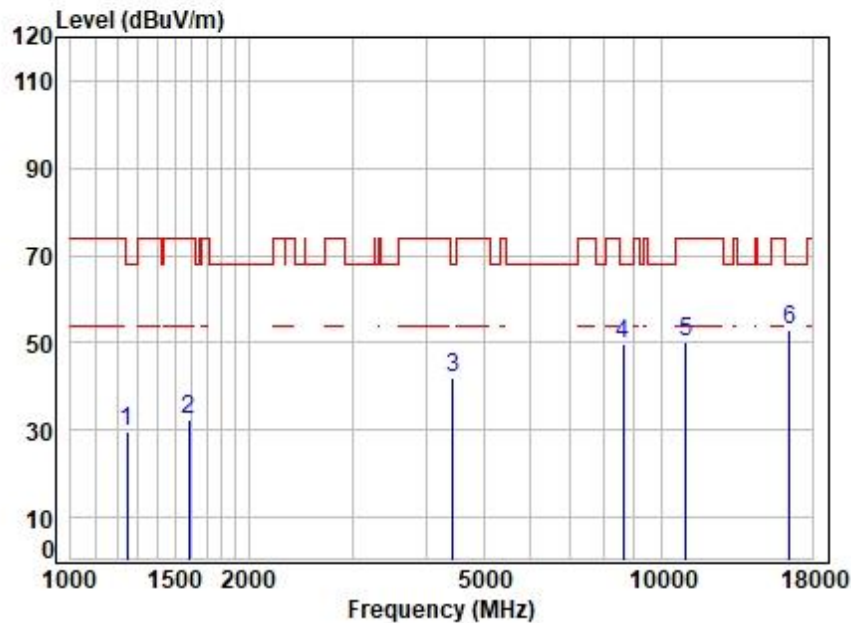
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 67 of 346

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1245.663 | 3.25 | 24.28 | 52.69 | 54.87 | 29.71 | 68.20 | -38.49 | peak |
| 2 | 1583.392 | 3.95 | 24.75 | 52.90 | 56.77 | 32.57 | 74.00 | -41.43 | peak |
| 3 | 4443.453 | 7.47 | 30.12 | 52.94 | 57.48 | 42.13 | 68.20 | -26.07 | peak |
| 4 | 8613.468 | 9.92 | 36.14 | 53.98 | 57.45 | 49.53 | 68.20 | -18.67 | peak |
| 5 | 11000.000 | 11.36 | 39.60 | 53.60 | 52.75 | 50.11 | 74.00 | -23.89 | peak |
| 6 | 16500.000 | 14.69 | 39.93 | 52.90 | 51.43 | 53.15 | 68.20 | -15.05 | peak |



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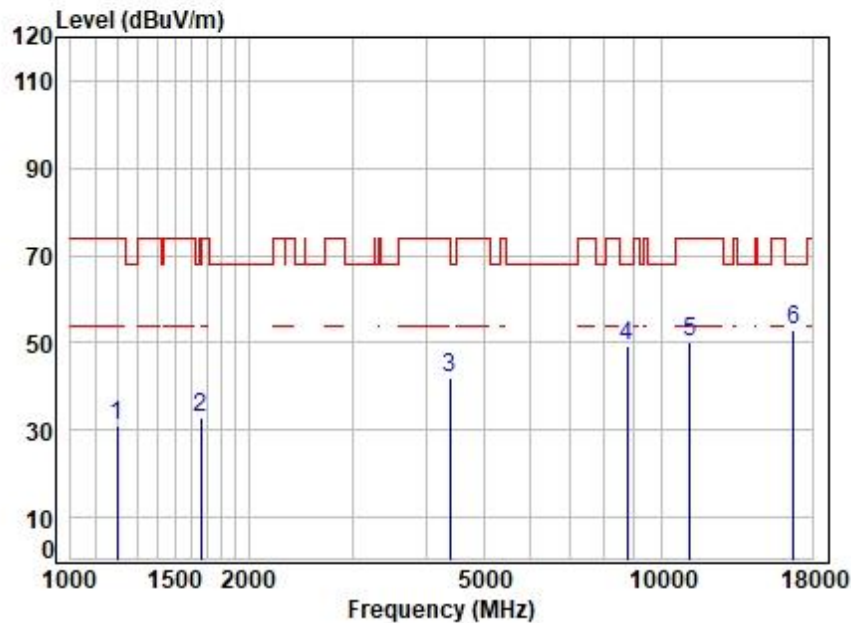
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 68 of 346

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1196.264 | 3.14 | 24.30 | 52.66 | 56.06 | 30.84 | 74.00 | -43.16 | peak |
| 2 | 1663.137 | 4.12 | 24.93 | 52.94 | 56.58 | 32.69 | 74.00 | -41.31 | peak |
| 3 | 4379.699 | 7.47 | 30.04 | 52.92 | 57.43 | 42.02 | 74.00 | -31.98 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 56.80 | 49.06 | 68.20 | -19.14 | peak |
| 5 | 11160.000 | 11.44 | 39.63 | 53.67 | 52.90 | 50.30 | 74.00 | -23.70 | peak |
| 6 | 16740.000 | 14.50 | 40.74 | 52.75 | 50.58 | 53.07 | 68.20 | -15.13 | peak |



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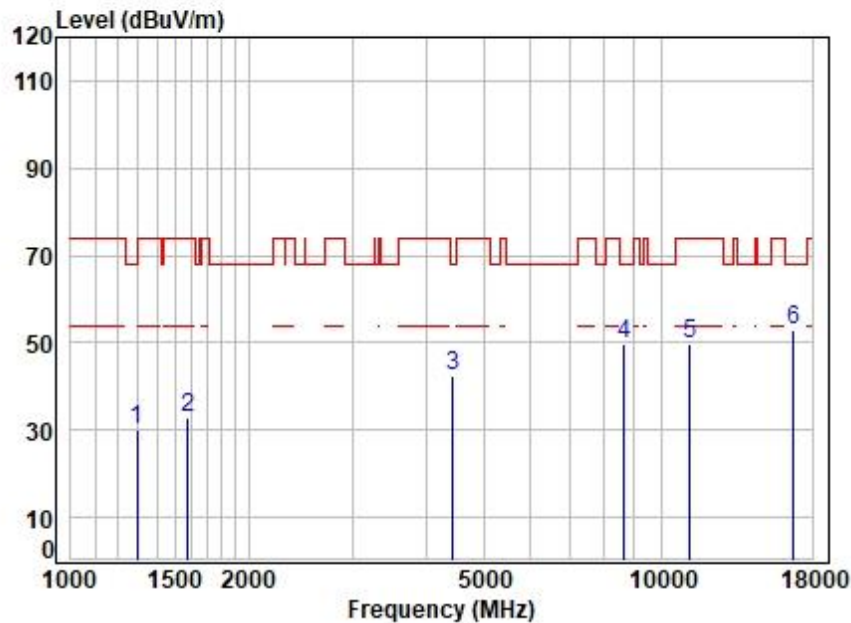
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 69 of 346

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1293.359 | 3.36 | 24.25 | 52.72 | 55.44 | 30.33 | 68.20 | -37.87 | peak |
| 2 | 1578.822 | 3.94 | 24.74 | 52.90 | 56.94 | 32.72 | 74.00 | -41.28 | peak |
| 3 | 4443.453 | 7.47 | 30.12 | 52.94 | 57.61 | 42.26 | 68.20 | -25.94 | peak |
| 4 | 8638.399 | 9.98 | 36.13 | 53.99 | 57.50 | 49.62 | 68.20 | -18.58 | peak |
| 5 | 11160.000 | 11.44 | 39.63 | 53.67 | 52.54 | 49.94 | 74.00 | -24.06 | peak |
| 6 | 16740.000 | 14.50 | 40.74 | 52.75 | 50.33 | 52.82 | 68.20 | -15.38 | peak |



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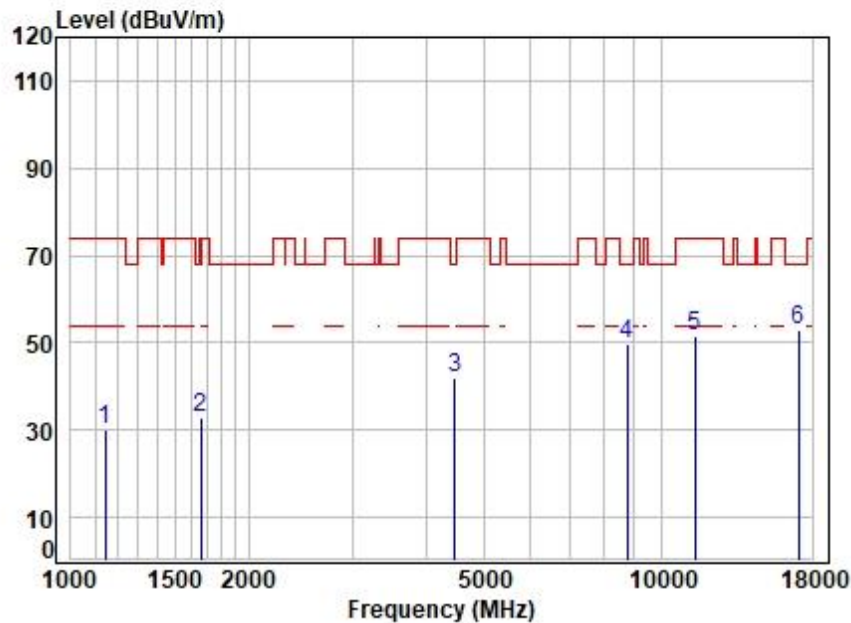
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 3.02 | 24.25 | 52.62 | 55.38 | 30.03 | 74.00 | -43.97 | peak |
| 2 | 1658.337 | 4.11 | 24.92 | 52.94 | 56.74 | 32.83 | 68.20 | -35.37 | peak |
| 3 | 4469.214 | 7.47 | 30.16 | 52.95 | 57.48 | 42.16 | 68.20 | -26.04 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.52 | 49.78 | 68.20 | -18.42 | peak |
| 5 | 11400.000 | 11.55 | 39.68 | 53.76 | 53.98 | 51.45 | 74.00 | -22.55 | peak |
| 6 | 17100.000 | 14.34 | 42.14 | 52.54 | 48.95 | 52.89 | 68.20 | -15.31 | peak |



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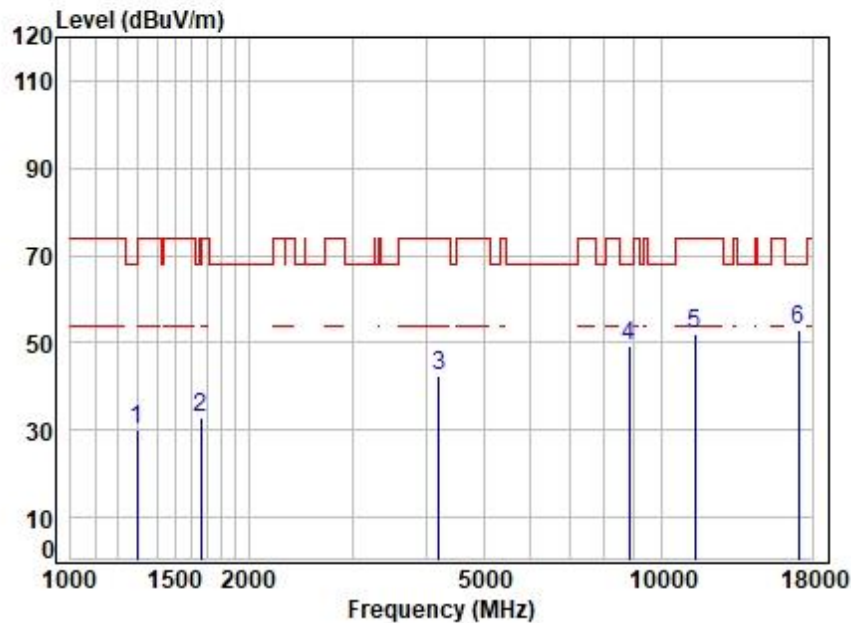
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1293.359 | 3.36 | 24.25 | 52.72 | 55.02 | 29.91 | 68.20 | -38.29 | peak |
| 2 | 1663.137 | 4.12 | 24.93 | 52.94 | 56.69 | 32.80 | 74.00 | -41.20 | peak |
| 3 | 4193.872 | 7.48 | 29.78 | 52.86 | 57.98 | 42.38 | 74.00 | -31.62 | peak |
| 4 | 8814.957 | 10.36 | 36.12 | 54.09 | 57.10 | 49.49 | 68.20 | -18.71 | peak |
| 5 | 11400.000 | 11.55 | 39.68 | 53.76 | 54.41 | 51.88 | 74.00 | -22.12 | peak |
| 6 | 17100.000 | 14.34 | 42.14 | 52.54 | 48.87 | 52.81 | 68.20 | -15.39 | peak |



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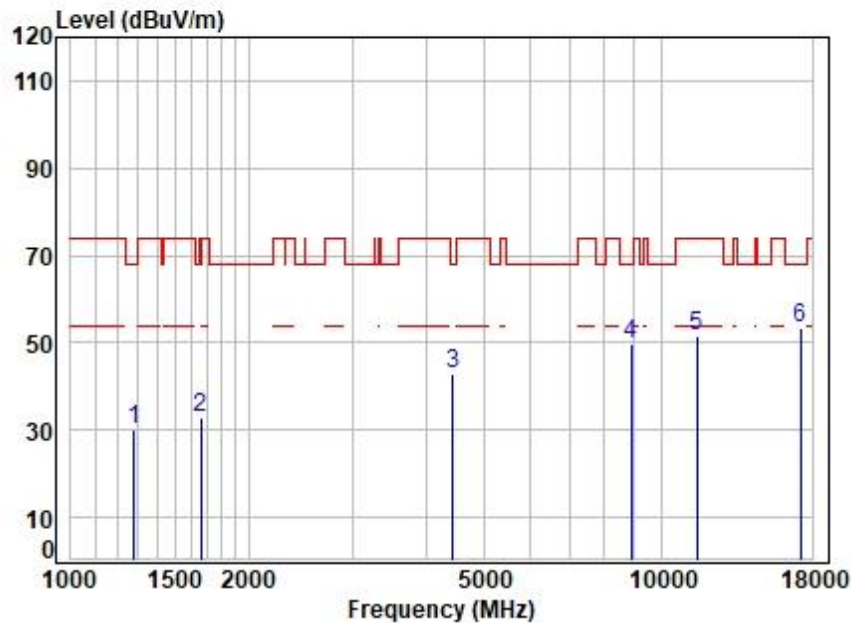
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1278.492 | 3.32 | 24.26 | 52.71 | 55.15 | 30.02 | 68.20 | -38.18 | peak |
| 2 | 1658.337 | 4.11 | 24.92 | 52.94 | 56.98 | 33.07 | 68.20 | -35.13 | peak |
| 3 | 4430.628 | 7.47 | 30.11 | 52.94 | 58.17 | 42.81 | 68.20 | -25.39 | peak |
| 4 | 8891.725 | 10.52 | 36.11 | 54.14 | 57.32 | 49.81 | 68.20 | -18.39 | peak |
| 5 | 11490.000 | 11.60 | 39.70 | 53.80 | 53.93 | 51.43 | 74.00 | -22.57 | peak |
| 6 | 17235.000 | 14.39 | 42.87 | 52.46 | 48.68 | 53.48 | 68.20 | -14.72 | peak |



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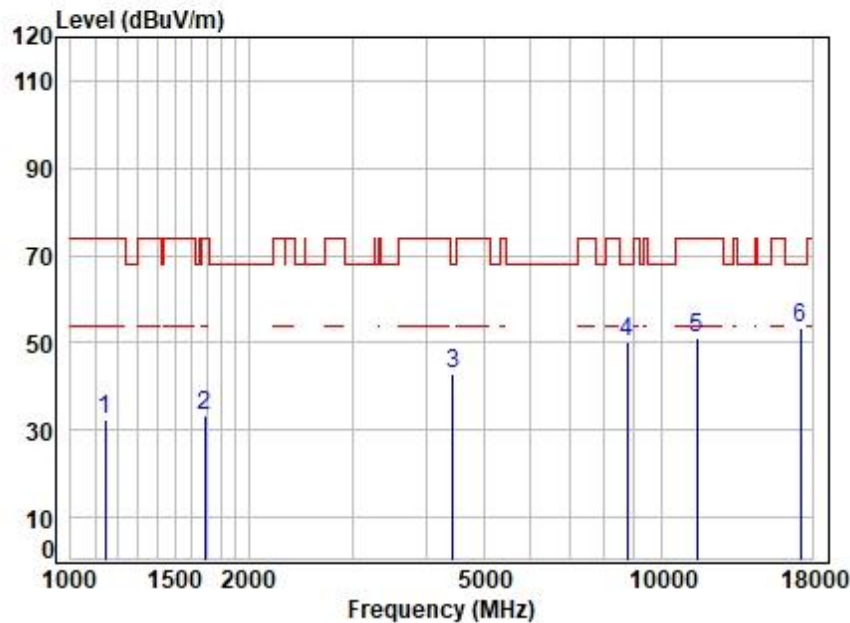
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 3.02 | 24.25 | 52.62 | 57.62 | 32.27 | 74.00 | -41.73 | peak |
| 2 | 1687.347 | 4.17 | 24.98 | 52.95 | 56.88 | 33.08 | 74.00 | -40.92 | peak |
| 3 | 4430.628 | 7.47 | 30.11 | 52.94 | 58.19 | 42.83 | 68.20 | -25.37 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.79 | 50.05 | 68.20 | -18.15 | peak |
| 5 | 11490.000 | 11.60 | 39.70 | 53.80 | 53.61 | 51.11 | 74.00 | -22.89 | peak |
| 6 | 17235.000 | 14.39 | 42.87 | 52.46 | 48.71 | 53.51 | 68.20 | -14.69 | peak |



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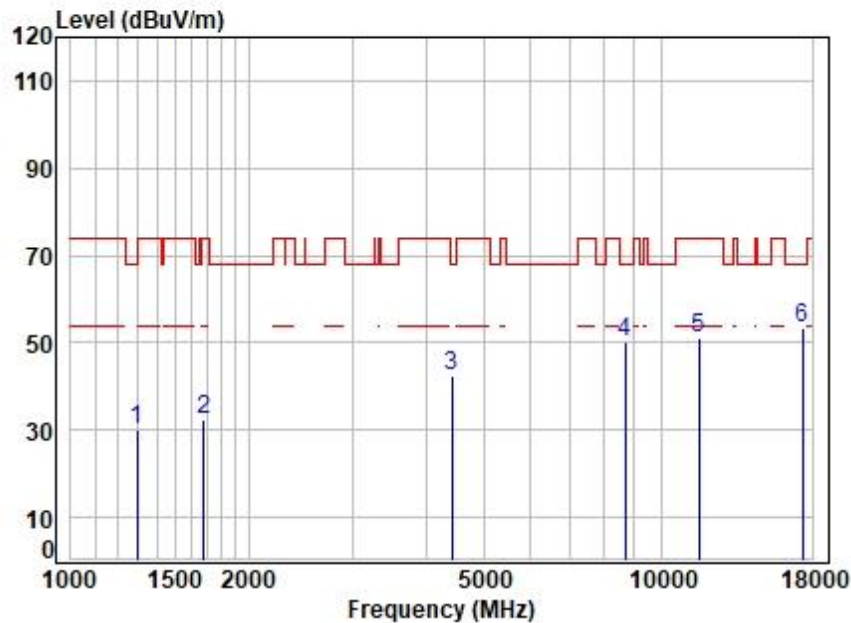
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1297.103 | 3.36 | 24.25 | 52.73 | 55.32 | 30.20 | 68.20 | -38.00 | peak |
| 2 | 1677.621 | 4.15 | 24.96 | 52.95 | 56.14 | 32.30 | 74.00 | -41.70 | peak |
| 3 | 4417.841 | 7.47 | 30.09 | 52.93 | 57.66 | 42.29 | 68.20 | -25.91 | peak |
| 4 | 8688.480 | 10.08 | 36.13 | 54.02 | 57.84 | 50.03 | 68.20 | -18.17 | peak |
| 5 | 11570.000 | 11.60 | 39.72 | 53.83 | 53.39 | 50.88 | 74.00 | -23.12 | peak |
| 6 | 17355.000 | 14.44 | 43.52 | 52.38 | 48.02 | 53.60 | 68.20 | -14.60 | peak |



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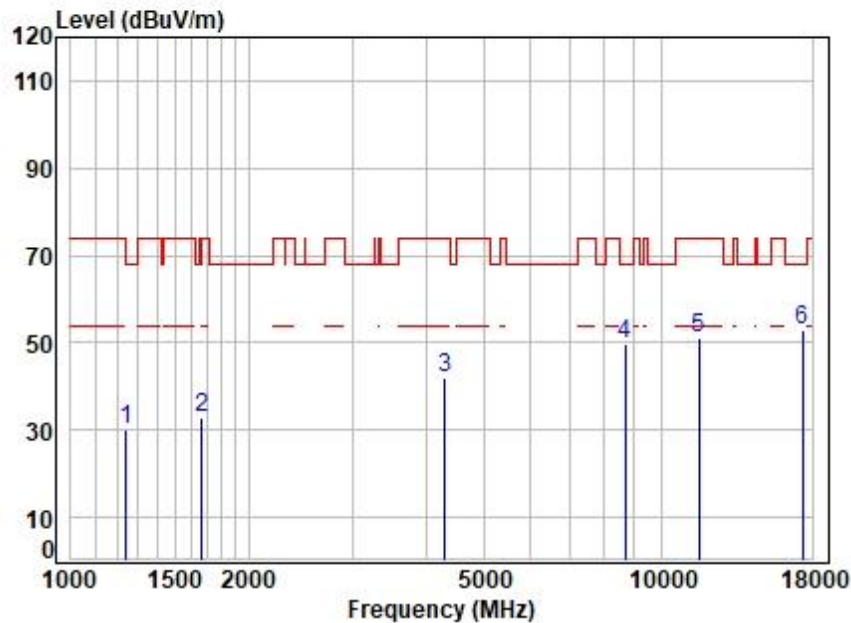
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

Page: 75 of 346

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1242.068 | 3.24 | 24.28 | 52.69 | 55.45 | 30.28 | 68.20 | -37.92 | peak |
| 2 | 1667.951 | 4.13 | 24.94 | 52.94 | 56.49 | 32.62 | 74.00 | -41.38 | peak |
| 3 | 4304.400 | 7.48 | 29.94 | 52.90 | 57.59 | 42.11 | 74.00 | -31.89 | peak |
| 4 | 8688.480 | 10.08 | 36.13 | 54.02 | 57.54 | 49.73 | 68.20 | -18.47 | peak |
| 5 | 11570.000 | 11.60 | 39.72 | 53.83 | 53.43 | 50.92 | 74.00 | -23.08 | peak |
| 6 | 17355.000 | 14.44 | 43.52 | 52.38 | 47.34 | 52.92 | 68.20 | -15.28 | peak |



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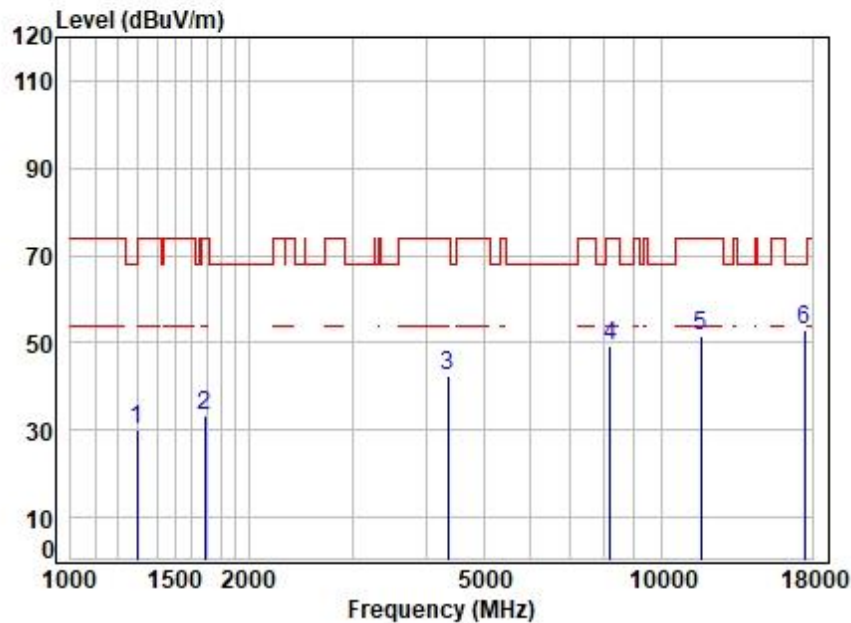
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1293.359 | 3.36 | 24.25 | 52.72 | 55.24 | 30.13 | 68.20 | -38.07 | peak |
| 2 | 1687.347 | 4.17 | 24.98 | 52.95 | 57.06 | 33.26 | 74.00 | -40.74 | peak |
| 3 | 4354.454 | 7.48 | 30.00 | 52.91 | 57.81 | 42.38 | 74.00 | -31.62 | peak |
| 4 | 8200.463 | 9.53 | 36.18 | 53.73 | 57.25 | 49.23 | 74.00 | -24.77 | peak |
| 5 | 11650.000 | 11.60 | 39.73 | 53.86 | 53.96 | 51.43 | 74.00 | -22.57 | peak |
| 6 | 17475.000 | 14.48 | 44.16 | 52.31 | 46.77 | 53.10 | 68.20 | -15.10 | peak |



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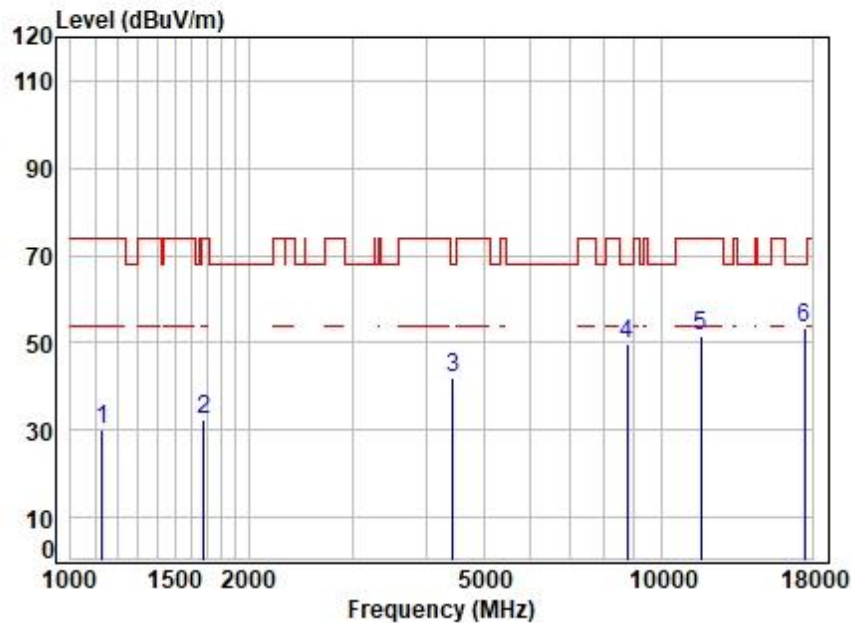
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1132.340 | 2.99 | 24.24 | 52.61 | 55.59 | 30.21 | 74.00 | -43.79 | peak |
| 2 | 1677.621 | 4.15 | 24.96 | 52.95 | 56.42 | 32.58 | 74.00 | -41.42 | peak |
| 3 | 4443.453 | 7.47 | 30.12 | 52.94 | 57.51 | 42.16 | 68.20 | -26.04 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.47 | 49.73 | 68.20 | -18.47 | peak |
| 5 | 11650.000 | 11.60 | 39.73 | 53.86 | 54.19 | 51.66 | 74.00 | -22.34 | peak |
| 6 | 17475.000 | 14.48 | 44.16 | 52.31 | 46.93 | 53.26 | 68.20 | -14.94 | peak |



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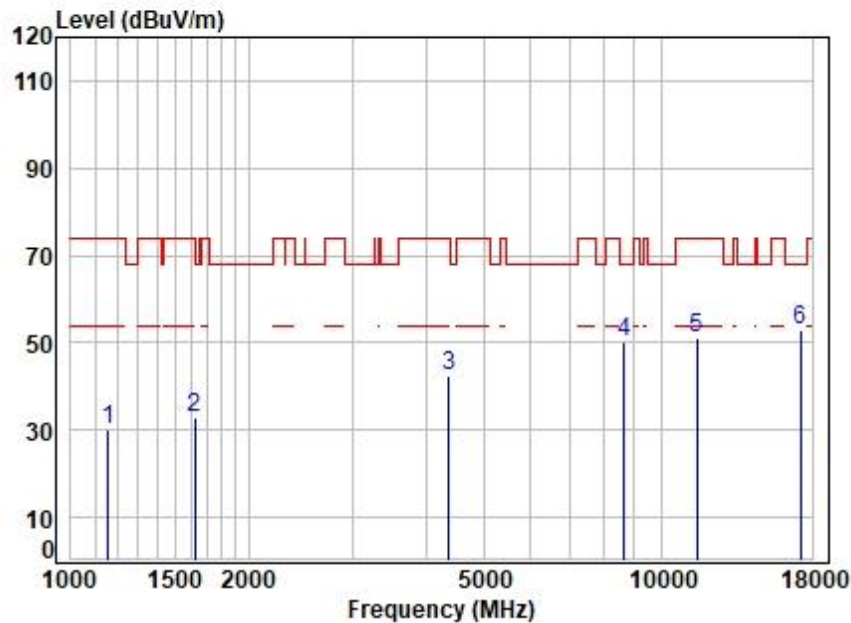
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Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1158.828 | 3.05 | 24.26 | 52.63 | 55.64 | 30.32 | 74.00 | -43.68 | peak |
| 2 | 1625.121 | 4.04 | 24.85 | 52.92 | 56.73 | 32.70 | 74.00 | -41.30 | peak |
| 3 | 4367.058 | 7.48 | 30.02 | 52.92 | 58.00 | 42.58 | 74.00 | -31.42 | peak |
| 4 | 8638.399 | 9.98 | 36.13 | 53.99 | 58.27 | 50.39 | 68.20 | -17.81 | peak |
| 5 | 11490.000 | 11.60 | 39.70 | 53.80 | 53.49 | 50.99 | 74.00 | -23.01 | peak |
| 6 | 17235.000 | 14.39 | 42.87 | 52.46 | 48.30 | 53.10 | 68.20 | -15.10 | peak |



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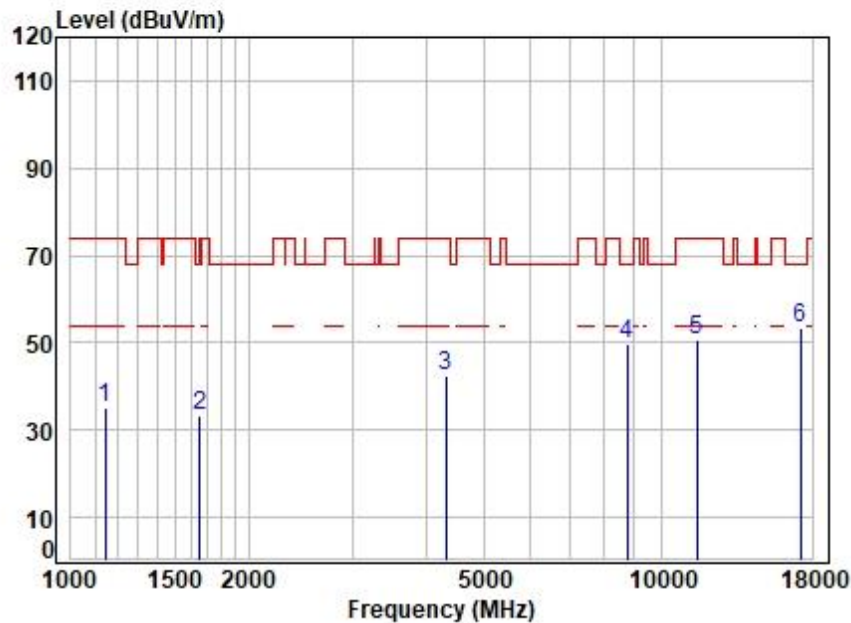
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR230100000905

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1145.507 | 3.02 | 24.25 | 52.62 | 60.29 | 34.94 | 74.00 | -39.06 | peak |
| 2 | 1653.550 | 4.10 | 24.91 | 52.94 | 57.05 | 33.12 | 68.20 | -35.08 | peak |
| 3 | 4316.859 | 7.48 | 29.95 | 52.90 | 58.00 | 42.53 | 74.00 | -31.47 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.65 | 49.91 | 68.20 | -18.29 | peak |
| 5 | 11490.000 | 11.60 | 39.70 | 53.80 | 53.13 | 50.63 | 74.00 | -23.37 | peak |
| 6 | 17235.000 | 14.39 | 42.87 | 52.46 | 48.78 | 53.58 | 68.20 | -14.62 | peak |



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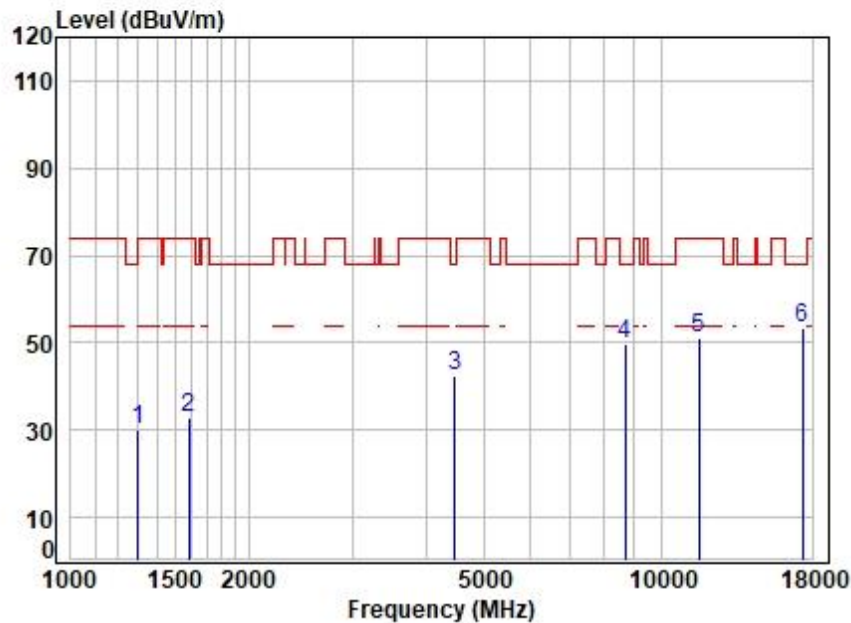
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1300.858 | 3.37 | 24.25 | 52.73 | 55.09 | 29.98 | 74.00 | -44.02 | peak |
| 2 | 1587.975 | 3.96 | 24.77 | 52.90 | 56.91 | 32.74 | 74.00 | -41.26 | peak |
| 3 | 4469.214 | 7.47 | 30.16 | 52.95 | 57.96 | 42.64 | 68.20 | -25.56 | peak |
| 4 | 8688.480 | 10.08 | 36.13 | 54.02 | 57.33 | 49.52 | 68.20 | -18.68 | peak |
| 5 | 11570.000 | 11.60 | 39.72 | 53.83 | 53.70 | 51.19 | 74.00 | -22.81 | peak |
| 6 | 17355.000 | 14.44 | 43.52 | 52.38 | 47.62 | 53.20 | 68.20 | -15.00 | peak |



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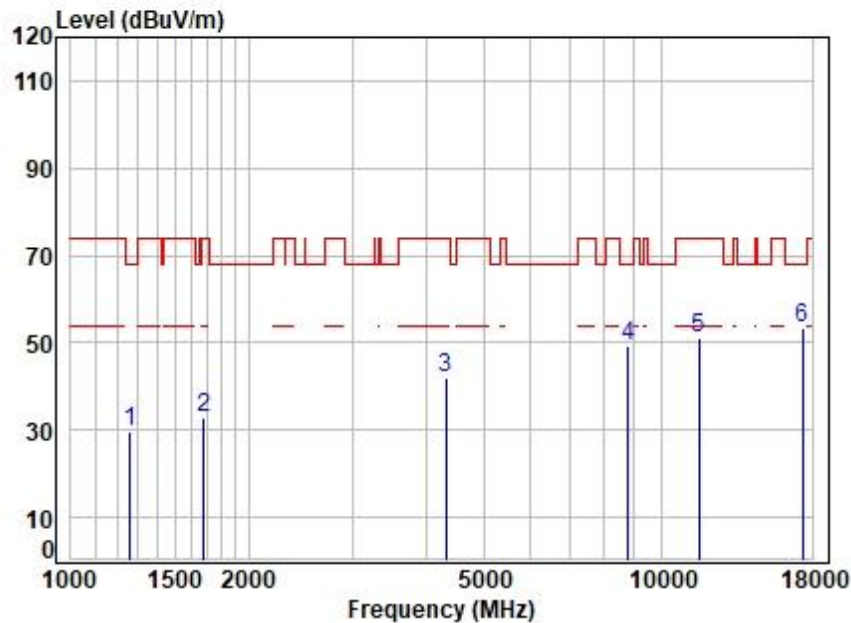
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1260.149 | 3.28 | 24.27 | 52.70 | 54.96 | 29.81 | 68.20 | -38.39 | peak |
| 2 | 1677.621 | 4.15 | 24.96 | 52.95 | 56.69 | 32.85 | 74.00 | -41.15 | peak |
| 3 | 4316.859 | 7.48 | 29.95 | 52.90 | 57.31 | 41.84 | 74.00 | -32.16 | peak |
| 4 | 8789.516 | 10.30 | 36.12 | 54.08 | 56.86 | 49.20 | 68.20 | -19.00 | peak |
| 5 | 11570.000 | 11.60 | 39.72 | 53.83 | 53.83 | 51.32 | 74.00 | -22.68 | peak |
| 6 | 17355.000 | 14.44 | 43.52 | 52.38 | 47.74 | 53.32 | 68.20 | -14.88 | peak |



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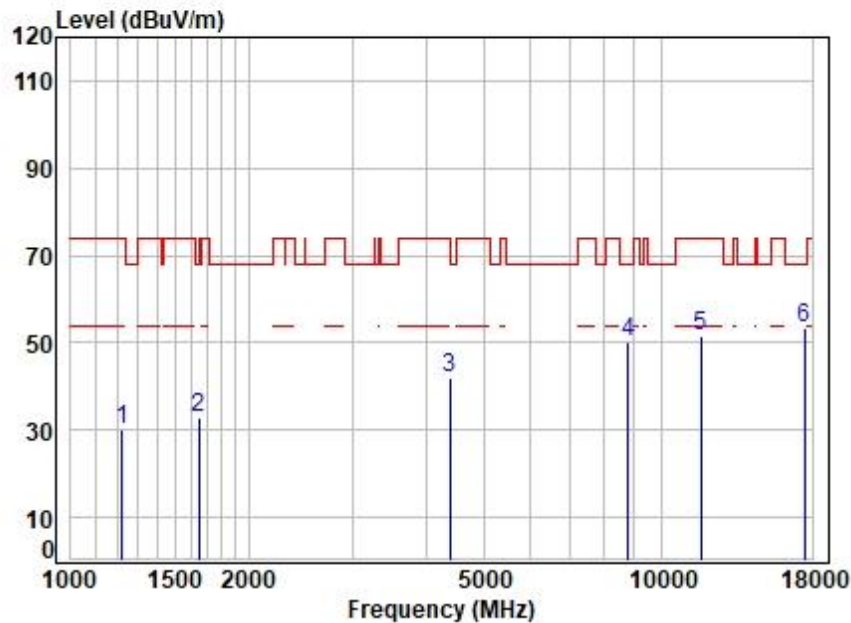
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1224.247 | 3.20 | 24.29 | 52.68 | 55.39 | 30.20 | 74.00 | -43.80 | peak |
| 2 | 1648.778 | 4.09 | 24.90 | 52.93 | 56.78 | 32.84 | 68.20 | -35.36 | peak |
| 3 | 4379.699 | 7.47 | 30.04 | 52.92 | 57.57 | 42.16 | 74.00 | -31.84 | peak |
| 4 | 8789.516 | 10.30 | 36.12 | 54.08 | 57.66 | 50.00 | 68.20 | -18.20 | peak |
| 5 | 11650.000 | 11.60 | 39.73 | 53.86 | 53.89 | 51.36 | 74.00 | -22.64 | peak |
| 6 | 17475.000 | 14.48 | 44.16 | 52.31 | 46.87 | 53.20 | 68.20 | -15.00 | peak |



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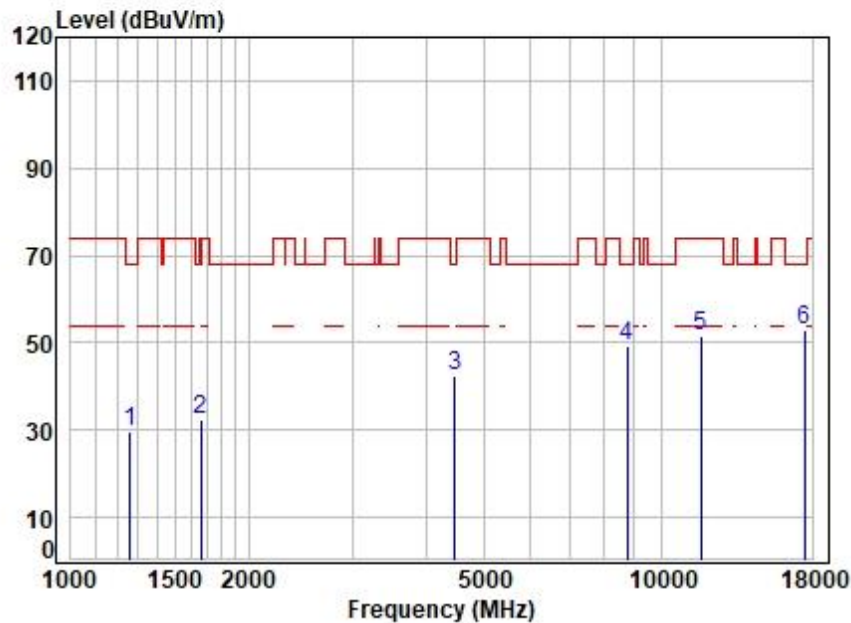
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|-----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1260.149 | 3.28 | 24.27 | 52.70 | 54.78 | 29.63 | 68.20 | -38.57 | peak |
| 2 | 1663.137 | 4.12 | 24.93 | 52.94 | 56.40 | 32.51 | 74.00 | -41.49 | peak |
| 3 | 4469.214 | 7.47 | 30.16 | 52.95 | 57.85 | 42.53 | 68.20 | -25.67 | peak |
| 4 | 8738.852 | 10.19 | 36.12 | 54.05 | 57.18 | 49.44 | 68.20 | -18.76 | peak |
| 5 | 11650.000 | 11.60 | 39.73 | 53.86 | 54.11 | 51.58 | 74.00 | -22.42 | peak |
| 6 | 17475.000 | 14.48 | 44.16 | 52.31 | 46.50 | 52.83 | 68.20 | -15.37 | peak |



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7.9 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: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 46.4 % RH

Atmospheric Pressure: 1020 mbar



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7.9.2 Test Mode Description

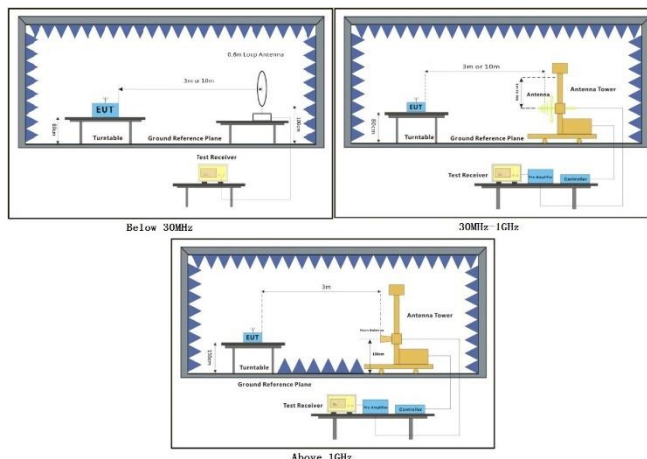
| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 04 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 05 | TX mode (U-NII-2A)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06 | TX mode (U-NII-2C)_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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 07 | 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), 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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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

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



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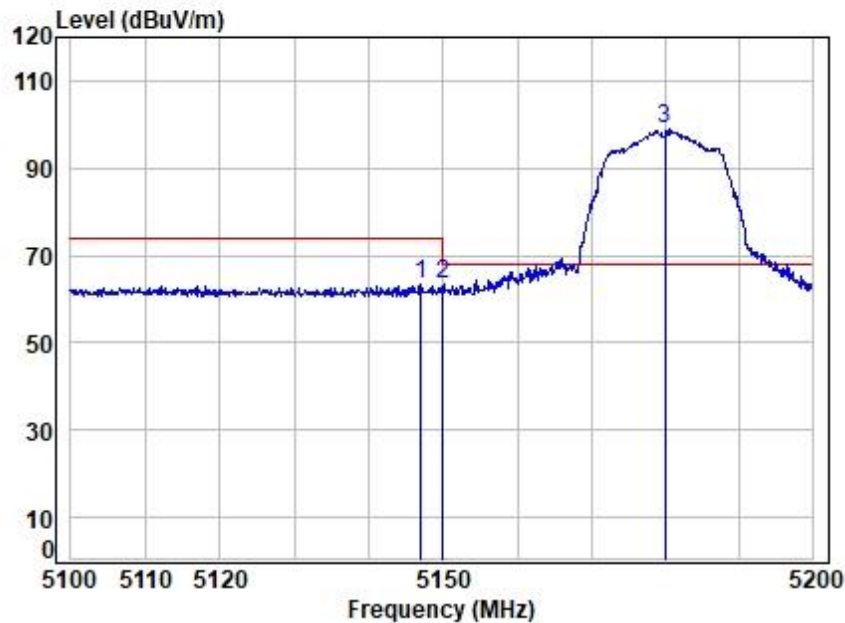
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
| Freq | | Loss | Factor | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 5146.958 | 8.29 | 31.76 | 31.81 | 55.01 | 63.25 | 74.00 | -10.75 peak |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 55.02 | 63.26 | 74.00 | -10.74 peak |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 90.55 | 98.83 | 68.20 | 30.63 peak |



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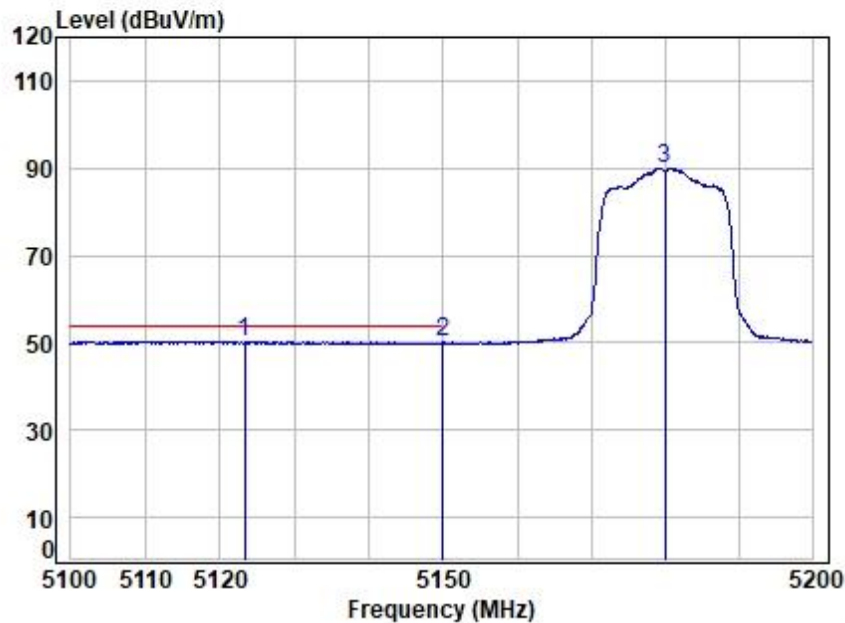
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Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|---------------|
| | Freq | Loss | Factor | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 5123.326 | 8.29 | 31.71 | 31.78 | 42.05 | 50.27 | 54.00 | -3.73 Average |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 41.81 | 50.05 | 54.00 | -3.95 Average |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 81.65 | 89.93 | ----- | ----- Average |



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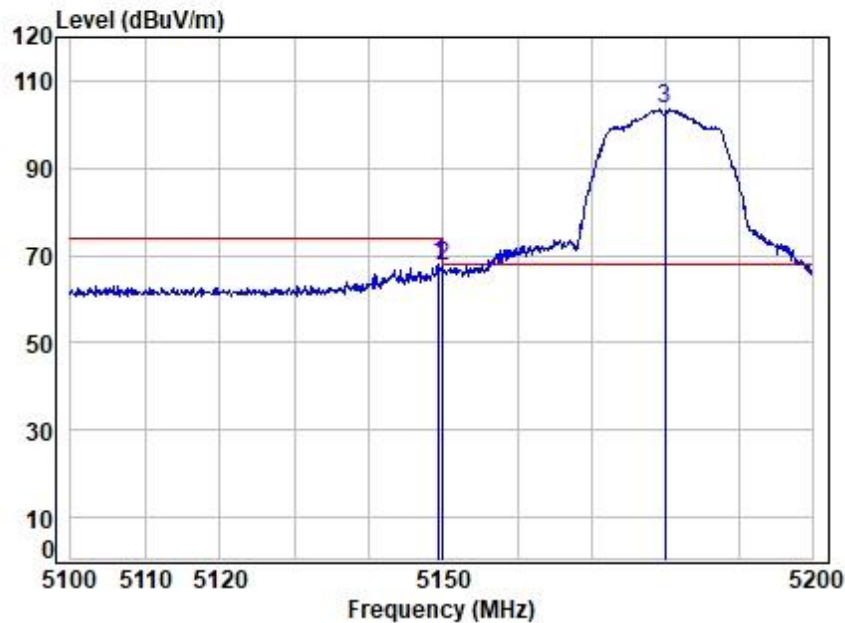
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|-------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5149.458 | 8.29 | 31.77 | 31.82 | 59.73 | 67.97 | 74.00 | -6.03 | Peak |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 59.11 | 67.35 | 74.00 | -6.65 | Peak |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 95.45 | 103.73 | 68.20 | 35.53 | Peak |



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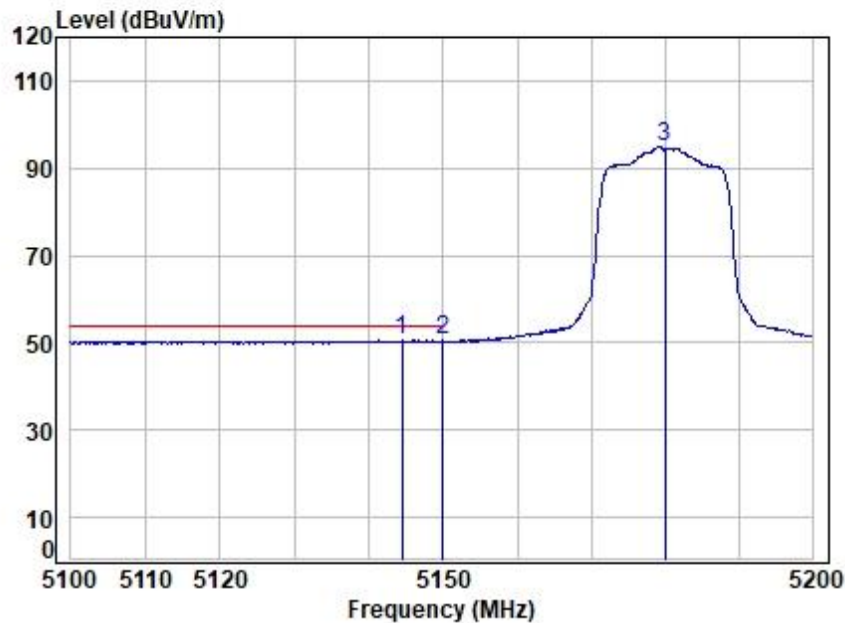
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00009AT/00010AT
 Mode : 5180 Band edge
 : 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|------|----------|-------|--------|--------|-------|--------|--------|-------|---------|
| Freq | | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5144.460 | 8.29 | 31.76 | 31.81 | 42.30 | 50.54 | 54.00 | -3.46 | Average |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 42.23 | 50.47 | 54.00 | -3.53 | Average |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 86.68 | 94.96 | ----- | ----- | Average |



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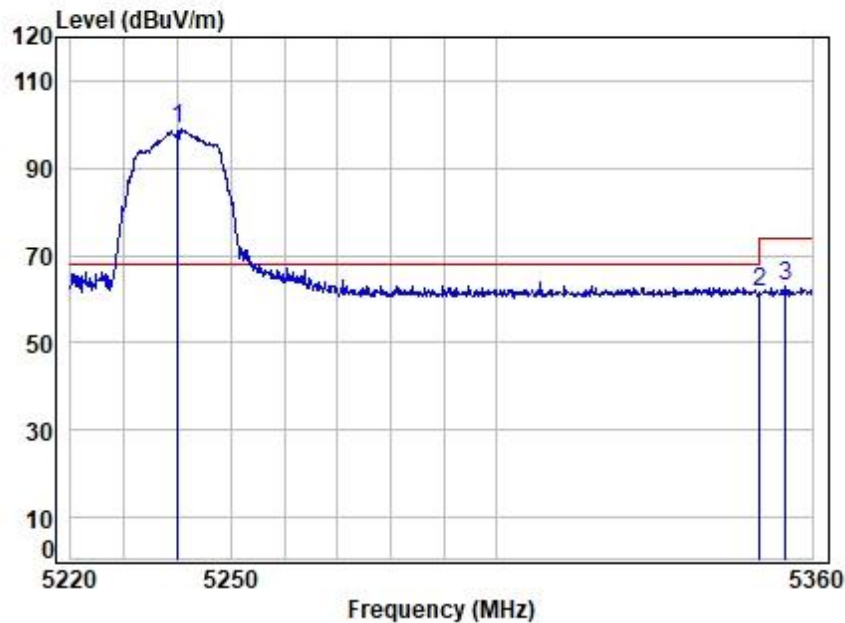
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|--------------|--|-------|--------|--------|-------|--------|-------|-------------|
| Freq | | Loss | Factor | Factor | Level | Line | Limit | Remark |
| MHz | | dB | dB/m | dB | dBuV | dBuV/m | dB | |
| 1 . 5240.000 | | 8.29 | 31.99 | 31.94 | 90.49 | 98.83 | 68.20 | 30.63 peak |
| 2 5350.020 | | 8.28 | 32.25 | 32.10 | 53.30 | 61.73 | 74.00 | -12.27 peak |
| 3 5354.896 | | 8.28 | 32.26 | 32.10 | 54.47 | 62.91 | 74.00 | -11.09 peak |



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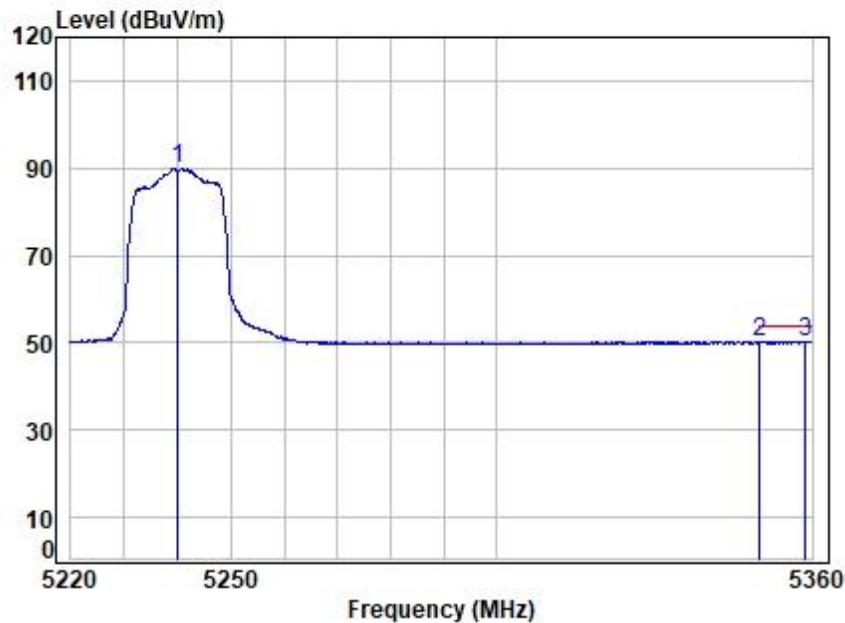
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|---------------|---------------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5240.000 | 8.29 | 31.99 | 31.94 | 81.55 | 89.89 | ----- | ----- | Average |
| 2 | 5350.020 | 8.28 | 32.25 | 32.10 | 41.65 | 50.08 | 54.00 | -3.92 | Average |
| 3 | 5358.724 | 8.28 | 32.27 | 32.11 | 41.80 | 50.24 | 54.00 | -3.76 | Average |



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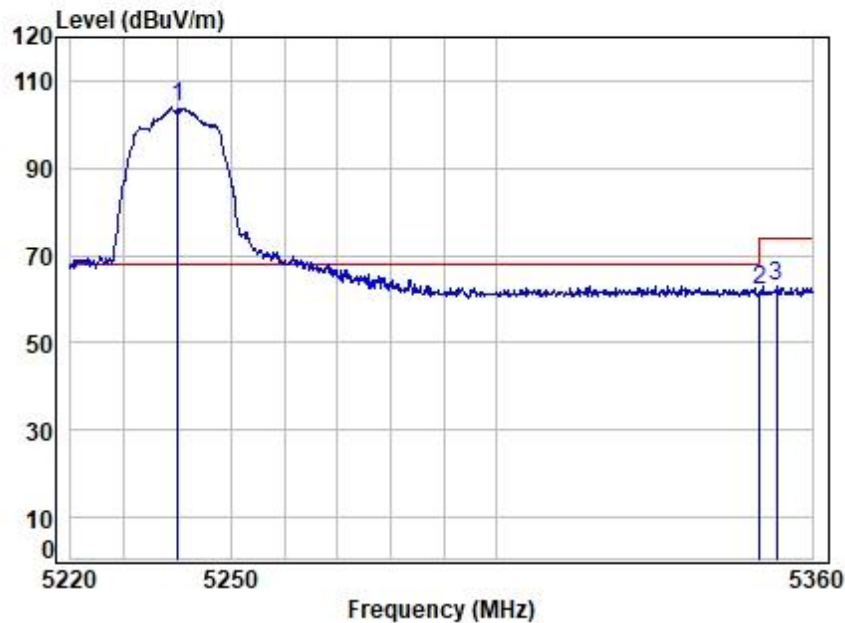
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11A

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|--------------|--|-------|--------|--------|-------|--------|--------|-------------|
| Freq | | Loss | Factor | Factor | Level | Line | Limit | Remark |
| MHz | | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 . 5240.000 | | 8.29 | 31.99 | 31.94 | 95.54 | 103.88 | 68.20 | 35.68 Peak |
| 2 5350.020 | | 8.28 | 32.25 | 32.10 | 53.83 | 62.26 | 74.00 | -11.74 Peak |
| 3 5353.195 | | 8.28 | 32.26 | 32.10 | 54.61 | 63.05 | 74.00 | -10.95 Peak |



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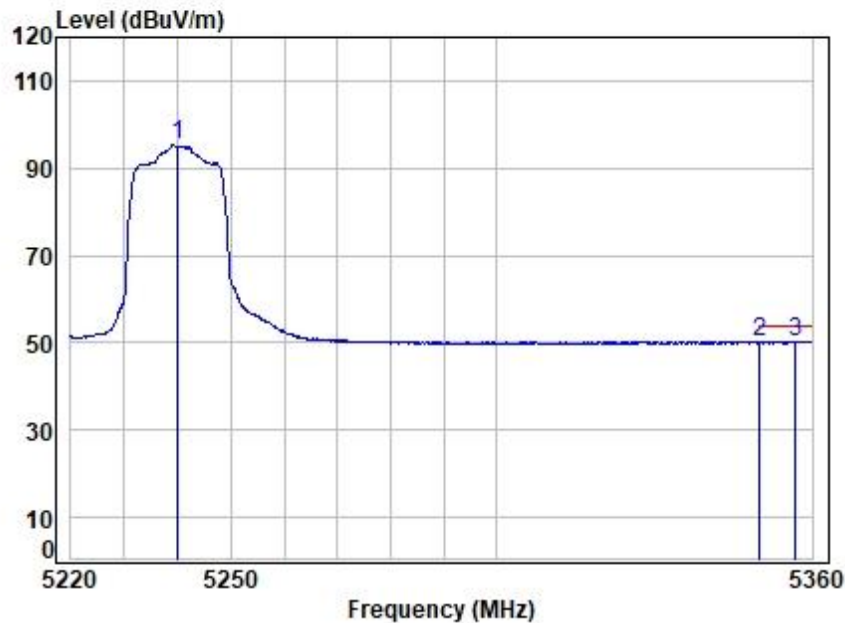
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11A

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|---------------|---------------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5240.000 | 8.29 | 31.99 | 31.94 | 86.95 | 95.29 | ----- | ----- | Average |
| 2 | 5350.020 | 8.28 | 32.25 | 32.10 | 41.58 | 50.01 | 54.00 | -3.99 | Average |
| 3 | 5356.880 | 8.28 | 32.27 | 32.11 | 41.80 | 50.24 | 54.00 | -3.76 | Average |



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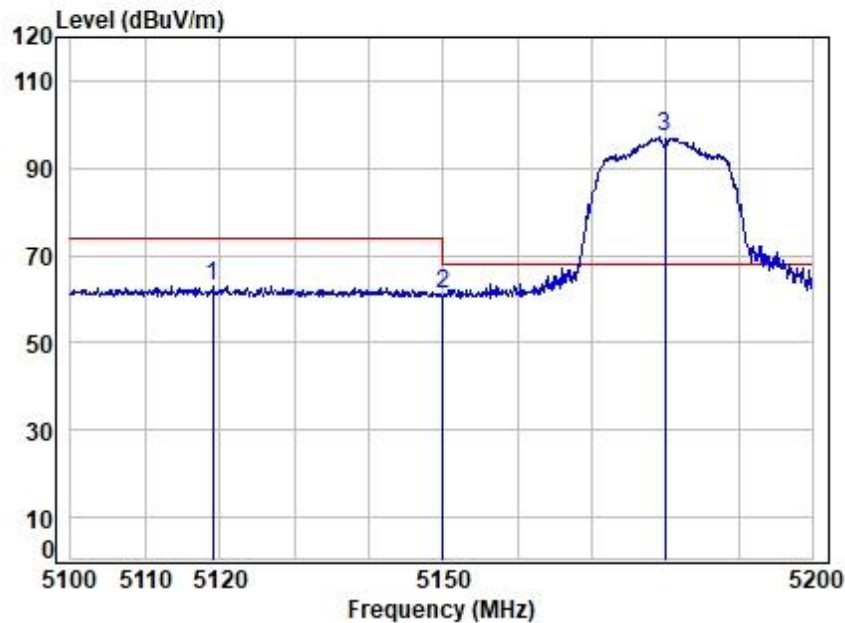
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
| Freq | | Loss | Factor | Factor | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 5118.950 | 8.29 | 31.70 | 31.77 | 54.81 | 63.03 | 74.00 | -10.97 peak |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 53.06 | 61.30 | 74.00 | -12.70 peak |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 88.85 | 97.13 | 68.20 | 28.93 peak |



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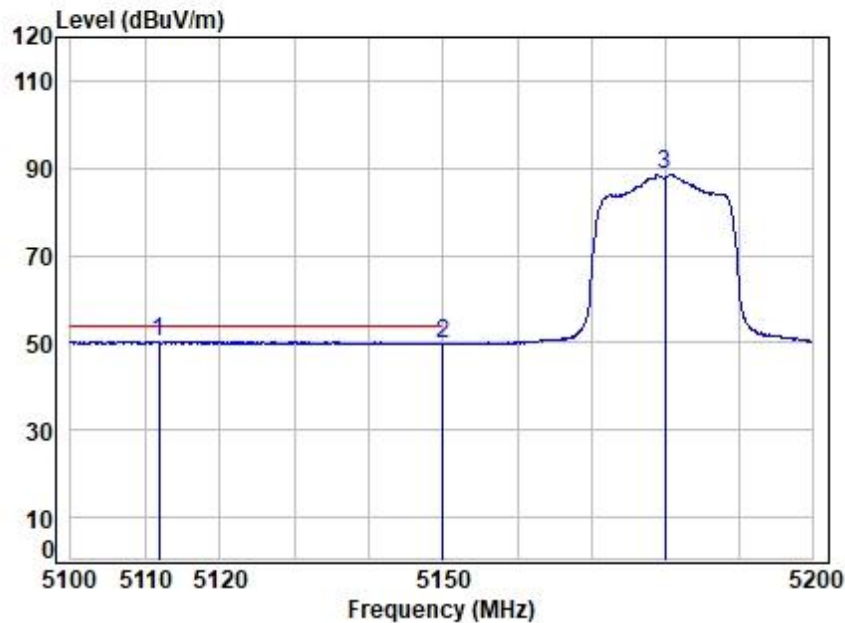
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|-------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5111.798 | 8.29 | 31.68 | 31.76 | 42.08 | 50.29 | 54.00 | -3.71 | Average |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 41.49 | 49.73 | 54.00 | -4.27 | Average |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 80.28 | 88.56 | ----- | ----- | Average |



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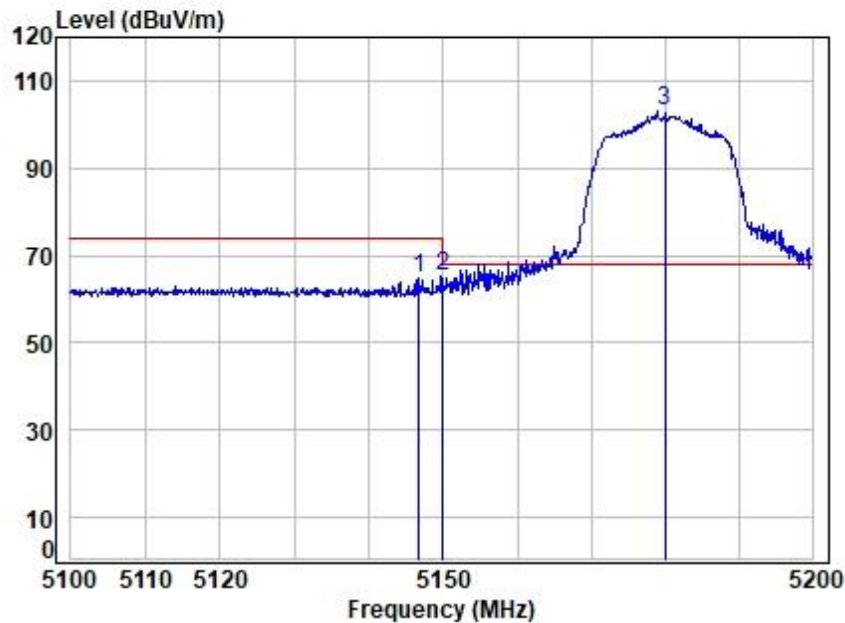
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 5146.758 | 8.29 | 31.76 | 31.81 | 56.57 | 64.81 | 74.00 | -9.19 Peak |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 56.98 | 65.22 | 74.00 | -8.78 Peak |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 94.62 | 102.90 | 68.20 | 34.70 Peak |



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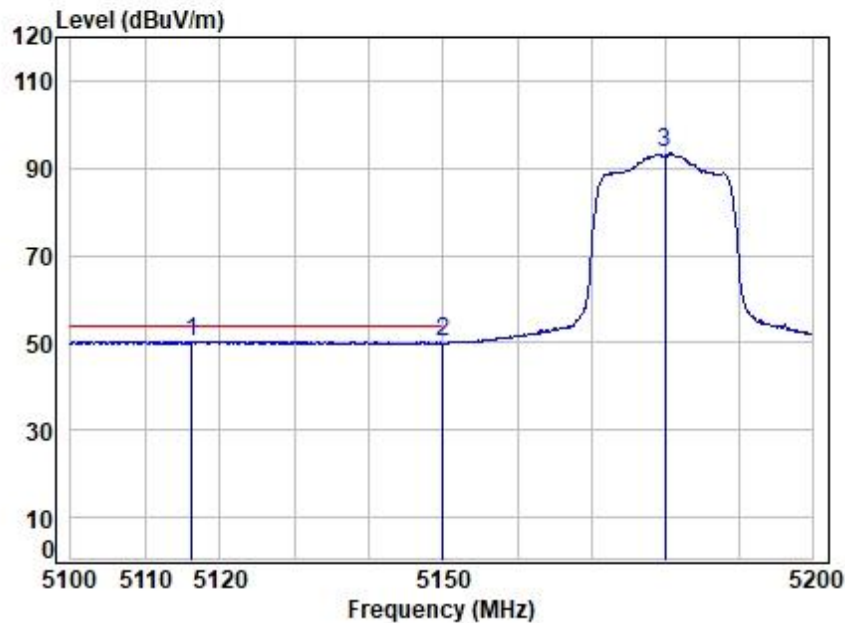
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5180 Band edge
: 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|---------------|---------------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5116.267 | 8.29 | 31.69 | 31.77 | 42.14 | 50.35 | 54.00 | -3.65 | Average |
| 2 | 5149.980 | 8.29 | 31.77 | 31.82 | 41.75 | 49.99 | 54.00 | -4.01 | Average |
| 3 | 5180.000 | 8.29 | 31.85 | 31.86 | 85.25 | 93.53 | ----- | ----- | Average |



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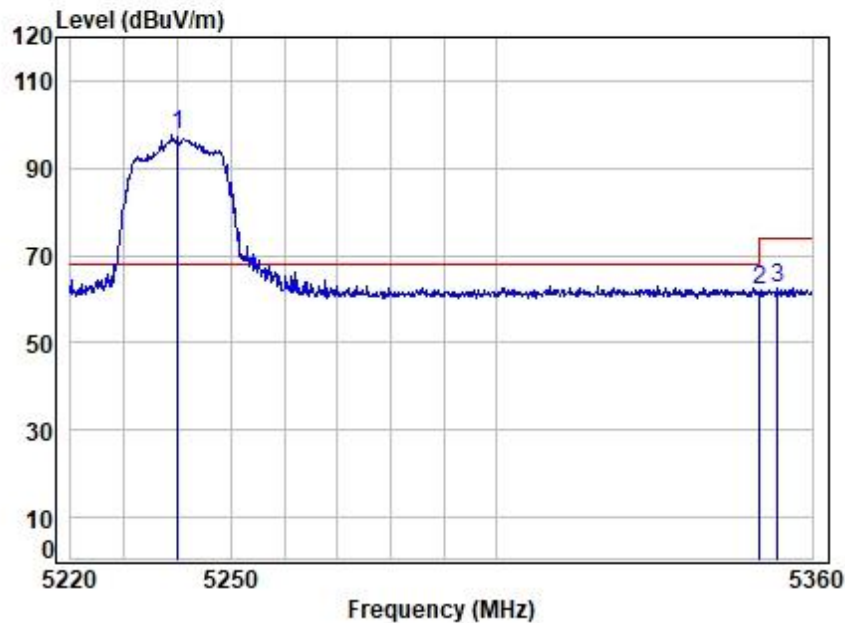
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|--------------|--|-------|--------|--------|-------|--------|--------|--------------|
| Freq | | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| MHz | | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 . 5240.000 | | 8.29 | 31.99 | 31.94 | 89.48 | 97.82 | 68.20 | 29.62 peak |
| 2 5350.020 | | 8.28 | 32.25 | 32.10 | 53.47 | 61.90 | 74.00 | -12.10 peak |
| 3 5353.479 | | 8.28 | 32.26 | 32.10 | 53.99 | 62.43 | 74.00 | -11.57 peak |



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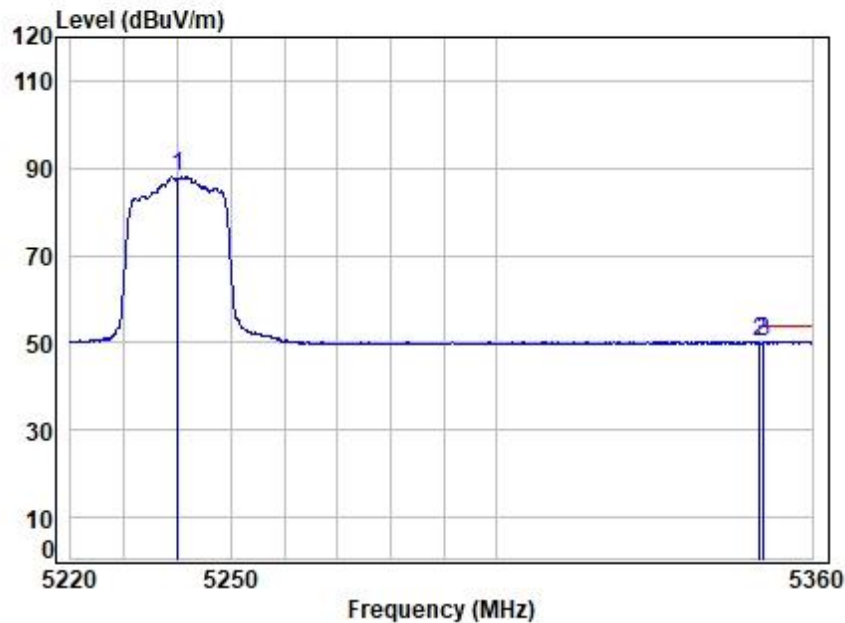
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11N20

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----------|---------------|---------------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5240.000 | 8.29 | 31.99 | 31.94 | 79.85 | 88.19 | ----- | ----- | Average |
| 2 | 5350.020 | 8.28 | 32.25 | 32.10 | 41.56 | 49.99 | 54.00 | -4.01 | Average |
| 3 | 5350.787 | 8.28 | 32.25 | 32.10 | 41.88 | 50.31 | 54.00 | -3.69 | Average |



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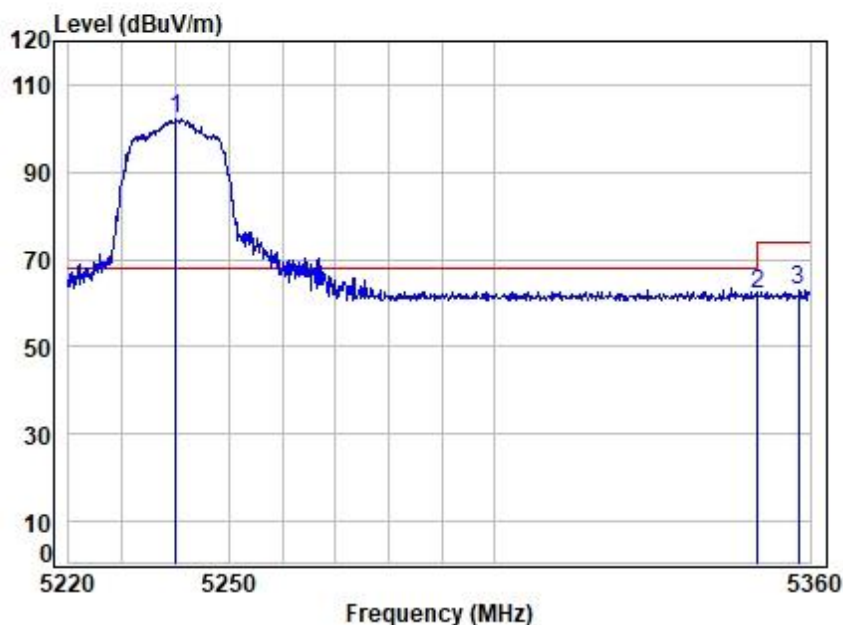
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00009AT/00010AT
Mode : 5240 Band edge
: 5G WIFI 11N20

| | | Cable | Ant | Preamp | Read | Limit | Over | |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
| Freq | | Loss | Factor | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 5240.000 | 8.29 | 31.99 | 31.94 | 93.88 | 102.22 | 68.20 | 34.02 Peak |
| 2 | 5350.020 | 8.28 | 32.25 | 32.10 | 53.46 | 61.89 | 74.00 | -12.11 Peak |
| 3 | 5357.873 | 8.28 | 32.27 | 32.11 | 54.32 | 62.76 | 74.00 | -11.24 Peak |



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