TEST REPORT

FCC ID: 2AWNK-F1001 Product: digital picture frame Model No.: F1001 Additional Model No.: F801, F901, F1501, F1002, F802

Trade Mark: Voger Report No.: TCT210423E038 Issued Date: May 25, 2021

Issued for:

Shenzhen Apeman Innovations Technology Co., Ltd. 1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339

FAX: +86-755-27673332

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TABLE OF CONTENTS

TCT 通测检测 TESTING CENTRE TECHNOLOGY

| <u>.</u> | Test Certification | | <u>(S)</u> | | <u>(0)</u> | | 3 | |
|----------|--|-------------|------------|----------|-----------------|-----------|-----------------|--|
| 2. | Test Result Summ | ary | | | | | 4 | |
| 3. | EUT Description | | | | | | 5 | |
| 4. | General Informatio | n | | <u>v</u> | | <u>v</u> | 7 | |
| | 4.1. Test environment | | | | | | | |
| | 4.2. Description of Su | pport Units | s | | | | 8 | |
| 5. | Facilities and Accr | editation | s | | | | 9 | |
| | 5.1. Facilities9 | | | | | | | |
| | 5.2. Location | | | | | | | |
| | 5.3. Measurement Une | certainty | | | | | 9 | |
| 6. | Test Results and M | | | | | | | |
| | 6.1. Antenna requirem | | | | | | | |
| | 6.2. Conducted Emiss | | | | | | | |
| | 6.3. Maximum Conducted (Average) Output Power1 | | | | | | | |
| | 6.4. Emission Bandwi | | | | | | | |
| | 6.5. Power Spectral D | | | | | | | |
| | 6.6. Conducted Band | - | - | | | | | |
| <u>ک</u> | 6.7. Radiated Spuriou | | | | (\mathcal{G}) | | 20 | |
| | ppendix A: Test Res | | | est | | | | |
| • | ppendix B: Photogr | • | - | | | | | |
| A | ppendix C: Photogr | aphs or ⊨ | :01 | | | | | |
| | | | | | | | | |
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| | | | | | | Page 2 of | ^f 71 | |

CT通测检测 Test Certification

| Report No.: | TCT210423E038 |
|-------------|---------------|
| 11000111011 | |

| Product: | digital picture frame |
|--------------------------|---|
| Model No.: | F1001 |
| Additional Model No.: | F801, F901, F1501, F1002, F802 |
| Trade Mark: | Voger |
| Applicant: | Shenzhen Apeman Innovations Technology Co., Ltd. |
| Address: | 1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China |
| Manufacturer: | Shenzhen Apeman Innovations Technology Co., Ltd. |
| Address: | 1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China |
| Date of Test: | Apr. 25, 2021 – May 25, 2021 |
| Applicable Standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013 |

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

aron Aaron Mo

Reviewed By:

Approved By:

Tomsin

omsm

Beryl Zhao

Date: May 25, 2021

Date: May 25, 2021

Date: May 25, 2021

Page 3 of 71

2. Test Result Summary

| Requirement | CFR 47 Section | Result | |
|-------------------------------------|---------------------|--------|-----|
| Antenna requirement | §15.203/§15.247 (c) | PASS | |
| AC Power Line Conducted Emission | §15.207 | PASS | |
| Conducted Peak Output Power | §15.247 (b)(3) | PASS | Ċ |
| 6dB Emission Bandwidth | §15.247 (a)(2) | PASS | No. |
| Power Spectral Density | §15.247 (e) | PASS | |
| Band Edge | §15.247(d) | PASS | |
| Spurious Emission | §15.205/§15.209 | PASS | |

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

Page 4 of 71



3. EUT Description

| Product: | digital picture frame |
|---|---|
| Model No.: | F1001 |
| Additional Model No.: | F801, F901, F1501, F1002, F802 |
| Trade Mark: | Voger |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) |
| Channel Separation: | 5MHz |
| Number of Channel: | 11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40) |
| Modulation Technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Modulation Technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) |
| Data speed (IEEE 802.11b): | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data speed (IEEE 802.11g): | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps |
| Data speed (IEEE 802.11n): | Up to 150Mbps |
| Antenna Type: | Internal Antenna |
| Antenna Gain: | 2.01dBi |
| Power Supply: | AC 120V/60Hz |
| AC adapter: | Adapter Information: MODEL: JK050200-S37USVD INPUT: AC 100-240V, 50/60Hz, 0.5A OUTPUT: DC 5V, 2000mA |
| Remark: | All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. |

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

Report No.: TCT210423E038

Operation Frequency each of channel For 802.11b/g/n(HT20)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Operation Frequency each of channel For 802.11n (HT40)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|----------------|-----------|
| - | - | 4 | 2427MHz | - 7 | 2442MHz | | |
| | | 5 | 2432MHz | 8 | 2447MHz | (\mathbf{G}) | |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2412MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2462MHz |

802.11n (HT40)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2422MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2452MHz |

4. General Information

4.1. Test environment and mode

| Operating Environment: |
|------------------------|
|------------------------|

| Condition | Conducted Emission | Radiated Emission | |
|-----------------------|--------------------|-------------------|--|
| Temperature: | 25.0 °C | 25.0 °C | |
| Humidity: | 55 % RH | 55 % RH | |
| Atmospheric Pressure: | 1010 mbar | 1010 mbar | |

Test Mode:

Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | Data rate |
|--------------|-----------|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(H20) | 6.5Mbps |
| 802.11n(H40) | 13.5Mbps |

Final Test Mode:

| Operation mode: | Keep the EUT in continuous transmitting |
|-----------------|---|
| Operation mode. | |
| | with modulation |

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

「CT通测检测 4.2. Description of Support Units

Hotline: 400-6611-140 Tel: 86-755-27673339

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| | | | 1 | |

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Fax: 86-755-27673332

http://www.tct-lab.com

5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098 Shenzhen Tongce Testing Lab.

Designation Number: CN1205

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

 IC - Registration No.: 10668A-1 CAB identifier: CN0031

The 3m Semi-anechoic chamber of SHENZHEN TONGCE TESTING LAB has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab.

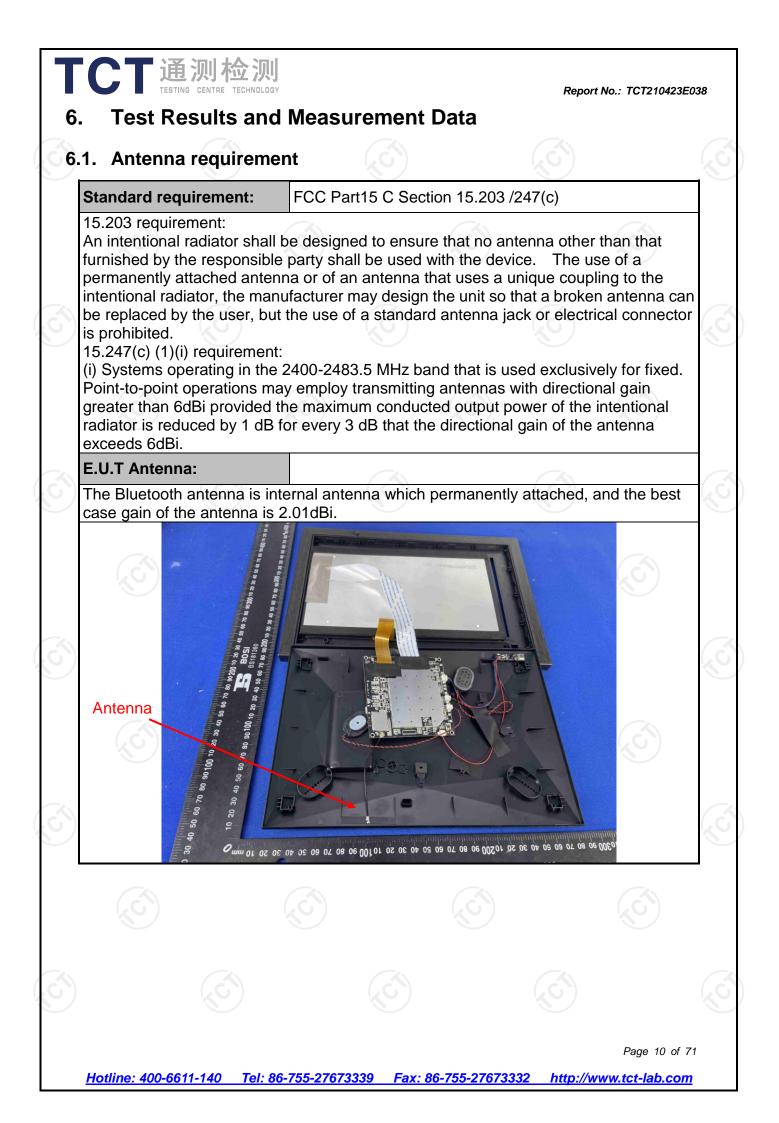
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item | MU | |
|-----|-------------------------------|---------|---|
| 1 | Conducted Emission | ±2.56dB | |
| 2 | RF power, conducted | ±0.12dB | |
| 3 | Spurious emissions, conducted | ±0.11dB | |
| 4 | All emissions, radiated(<1G) | | |
| 5 | All emissions, radiated(>1G) | ±4.28dB | |
| 6 | Temperature | ±0.1°C | 0 |
| 7 | Humidity | ±1.0% | |



| 2. Conducted Emissi | on | | |
|------------------------|--|--|---|
| .1. Test Specification | | | |
| Test Requirement: | FCC Part15 C Section | | |
| Test Method: | ANSI C63.10:2013 | | |
| Frequency Range: | 150 kHz to 30 MHz | | |
| Receiver setup: | RBW=9 kHz, VBW=30 | kHz, Sweep time | =auto |
| | Frequency range | Limit (c | BuV) |
| | (MHz) | Quasi-peak | Average |
| Limits: | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| | Reference | e Plane | |
| | Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m | stwork | |
| Test Mode: | Charging + transmitting | g with modulation | |
| Test Procedure: | The E.U.T is connecting impedance states provides a 500hm/5 measuring equipment The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables | bilization network 50uH coupling imp nt. ces are also conne SN that provides with 50ohm term diagram of the line are checked nce. In order to fin e positions of equi s must be change | (L.I.S.N.). This bedance for the cted to the main a 500hm/50uH ination. (Please test setup and d for maximum of the maximum pment and all of ed according to |
| | ANSI C63.10: 2013 | on conducted mea | asurement. |

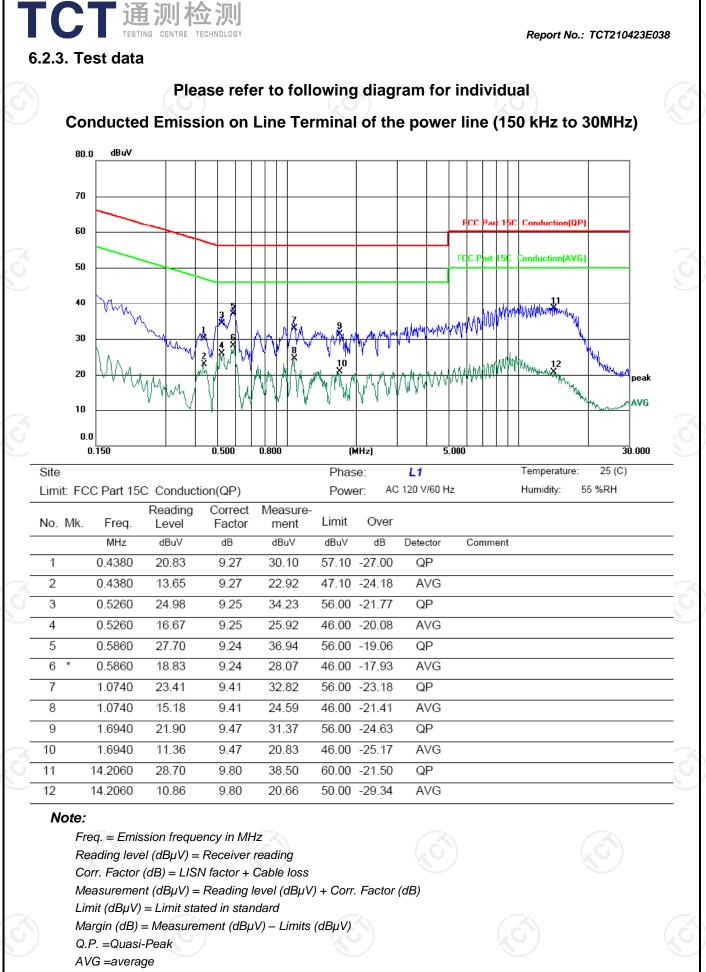
TCT通测检测 TESTING CENTRE TECHNOLOGY

6.2.2. Test Instruments

| Conducted Emission Shielding Room Test Site (843) | | | | |
|---|-----------------------|-----------|---------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Test Receiver | R&S | ESCI3 | 100898 | Jul. 27, 2021 |
| LISN-2 | Schwarzbeck | NSLK 8126 | 8126453 | Sep. 11, 2021 |
| Line-5 | тст | CE-05 | N/A | Sep. 02, 2021 |
| EMI Test Software | Shurple Technology | EZ-EMC | N/A | N/A |

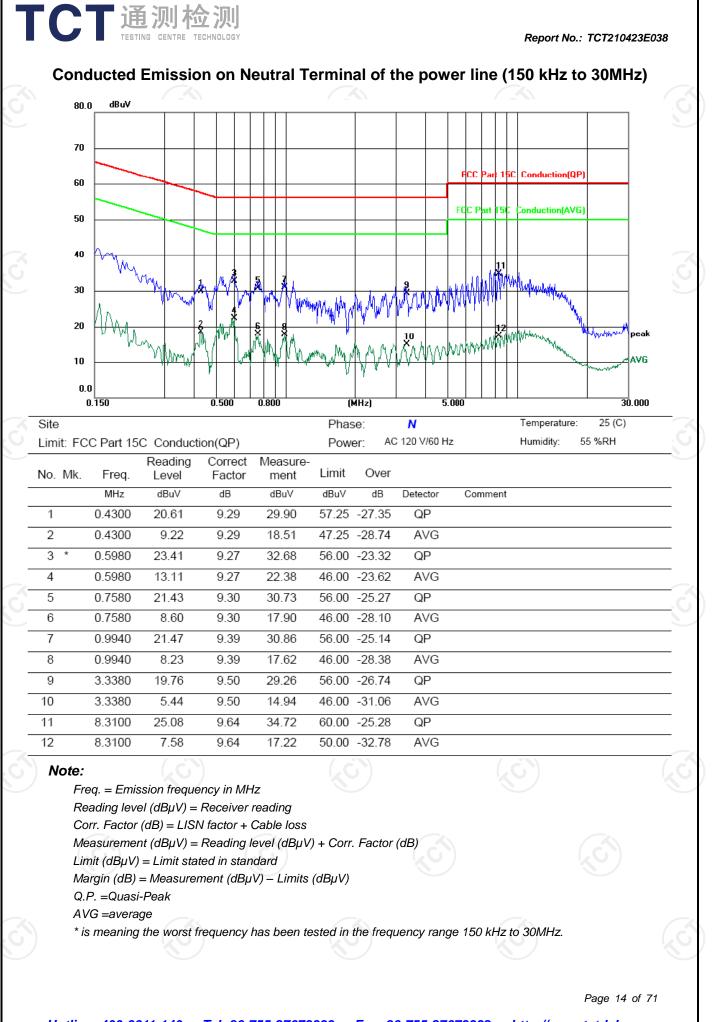
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 12 of 71



* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Page 13 of 71



6.3. Maximum Conducted (Average) Output Power

| 3.1. Test Specification | | | |
|-------------------------------|---|--|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | | |
| Test Method: | KDB 558074 D01 v05r02 | | |
| Limit: | 30dBm | | |
| Test Setup: | Spectrum Analyzer EUT | | |
| Test Mode: | Transmitting mode with modulation | | |
| Test Procedure: | The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. | | |
| Test Result: | PASS | | |
| $\langle \mathcal{O} \rangle$ | | | |

6.3.2. Test Instruments

| RF Test Room | | | | |
|----------------------------|--------------|--------|---------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | Agilent | N9020A | MY49100619 | Sep. 11, 2021 |
| RF Cable (9KHz-26.5GHz) | тст | RE-06 | N/A | Sep. 11, 2021 |
| Antenna Connector | TCT | RFC-01 | N/A | Sep. 11, 2021 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4. Emission Bandwidth

TCT 通测检测 TESTING CENTRE TECHNOLOGY

6.4.1. Test Specification

| FCC Part15 C Section 15.247 (a)(2) | | | |
|--|--|--|--|
| KDB 558074 D01 v05r02 | | | |
| >500kHz | | | |
| Spectrum Analyzer EUT | | | |
| Transmitting mode with modulation | | | |
| Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. | | | |
| PASS | | | |
| | | | |

6.4.2. Test Instruments

| RF Test Room | | | | |
|----------------------------|--------------|--------|---------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | Agilent | N9020A | MY49100619 | Sep. 11, 2021 |
| RF Cable (9KHz-26.5GHz) | тст | RE-06 | N/A | Sep. 11, 2021 |
| Antenna Connector | ТСТ | RFC-01 | N/A | Sep. 11, 2021 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

| CT通测检测 TESTING CENTRE TECHNOLOGY | Report No.: TCT210423E038 |
|-------------------------------------|--|
| 5.5. Power Spectral Den | |
| .5.1. Test Specification | |
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | KDB 558074 |
| Limit: | The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission. |
| Test Setup: | |
| Test Mode: | Spectrum Analyzer Lor Transmitting mode with modulation |
| Test Procedure: | The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. |
| Test Result: | PASS |

6.5.2. Test Instruments

| RF Test Room | | | | | |
|----------------------------|--------------|--------|---------------|-----------------|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due | |
| Spectrum Analyzer | Agilent | N9020A | MY49100619 | Sep. 11, 2021 | |
| RF Cable (9KHz-26.5GHz) | ТСТ | RE-06 | N/A | Sep. 11, 2021 | |
| Antenna Connector | ТСТ | RFC-01 | N/A | Sep. 11, 2021 | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 17 of 71

6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (d) |
|-------------------|--|
| Test Method: | KDB558074 |
| Limit: | In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). |
| Test Setup: | |
| | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. |
| | |

6.6.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

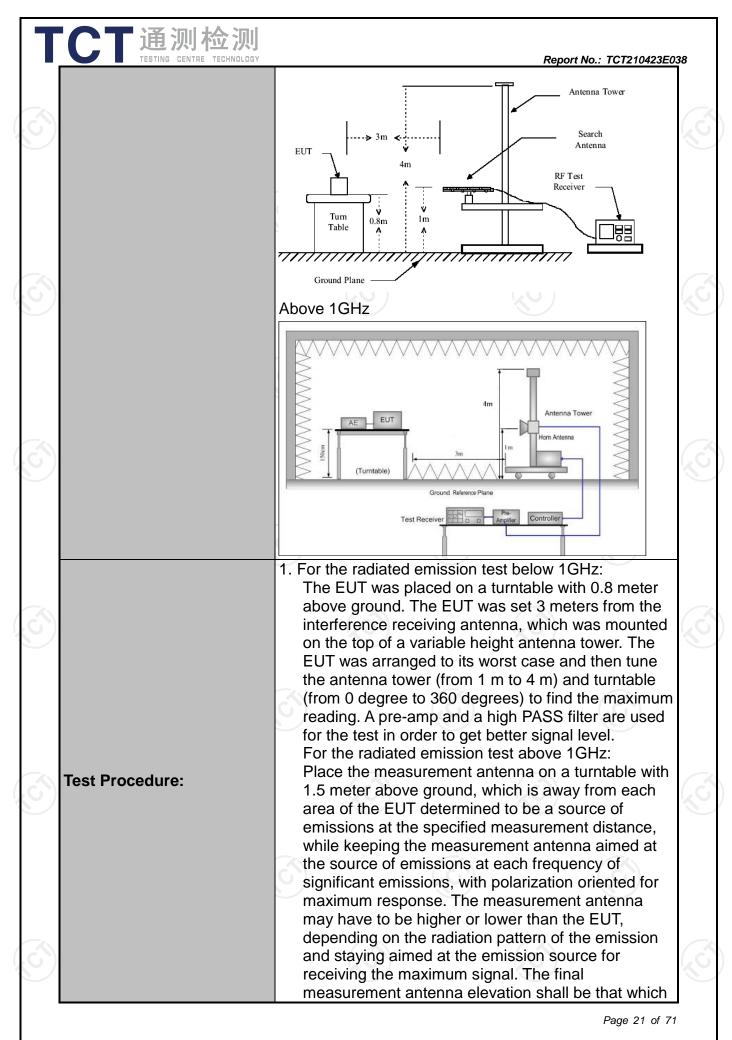
| | R | F Test Roor | n | |
|--------------------------|--|--------------------|---------------------------|----------------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analy | zer Agilent | N9020A | MY49100619 | Sep. 11, 2021 |
| RF Cable (9KHz-26.5GH | Iz) TCT | RE-06 | N/A | Sep. 11, 2021 |
| Antenna Conne | | RFC-01 | N/A | Sep. 11, 2021 |
| | interval of the above test ins ystem unit (SI). | struments is 12 r. | nonths and the calibratio | ns are traceable to |
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| | | | | Page 19 of 7 |
| Hotline: 400-6611- | 140 Tel: 86-755-27673 | 2220 Eave | 6-755-27673332 ht | tp://www.tct-lab.con |

6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

| | FCC Part15 | C Section | 15.209 | | | |
|-----------------------|---------------------------|------------------------|--|-------------|-----------------------|----------------|
| Test Method: | ANSI C63.10 |): 2013 | | | C | 6 |
| Frequency Range: | 9 kHz to 25 0 | GHz | 9 | | N.C. |) |
| Measurement Distance: | 3 m | | | | | |
| Antenna Polarization: | Horizontal & | Vertical | | | | |
| Operation mode: | Transmitting | mode with | n modulat | ion | | |
| | Frequency 9kHz- 150kHz | Detector Quasi-peak | RBW 200Hz | VBW 1kHz | Rem Quasi-pea | |
| Receiver Setup: | 150kHz- 30MHz | Quasi-peak | | 30kHz | Quasi-pea | £ |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-pea | ak Value |
| | Above 1GHz Peak | | 1MHz | 3MHz | Peak \ | |
| | | Peak | 1MHz | 10Hz | Average | value |
| | Frequen | ісу | Field Stre (microvolts) | | Measure Distance (| |
| | 0.009-0.4 | | 2400/F(I | | 300 | |
| | 0.490-1.7 | | 24000/F(KHz) | | 30 30 | |
| | 30-88 | 1 | <u>30</u> 100 | | 30 | |
| .imit: | 88-216 | | 150 | | 3 | |
| | 216-96 | 200 | | 3 | | |
| | Above 9 | 60 | 500 | | 3 | |
| | | | eld Strength crovolts/meter) Measure Dista (meter | | ce De | etector |
| | Above 1GHz | 7 | 500 5000 | 3 | A۱ | /erage Peak |
| | For radiated | emissions | below 30 |)MHz | | |
| Test setup: | | Turn table | Plane | | Computer - | |
| Test setup: | | Turn table | | | Amplifier | |
| Test setup: | | Turn table | | | Amplifier | |



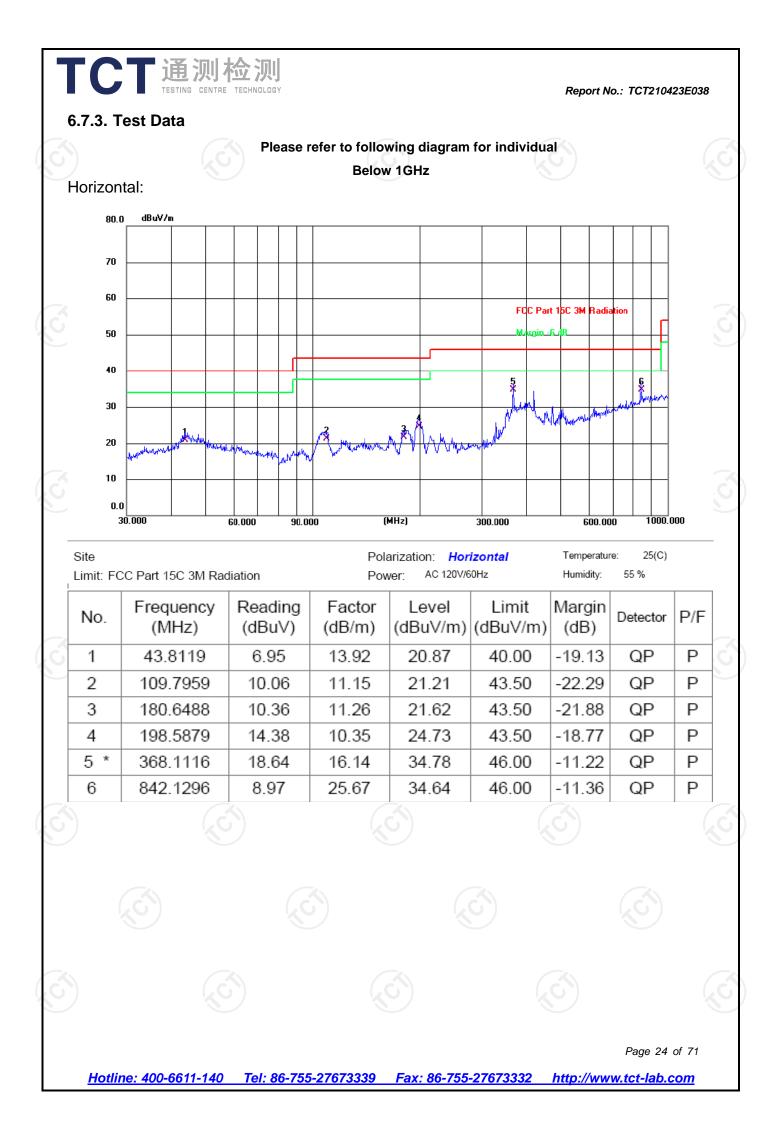
| т <u>ст</u> | TESTING CENTRE TECHNO | anter restri abov 3. Corre Read 4. For m of the lowe | mizes the emissions nna elevation for ma icted to a range of he re the ground or refe cted Reading: Anter d Level - Preamp Fa heasurement below 1 e EUT measured by r than the applicable | The measur ximum emissi eights of from rence ground na Factor + C ctor = Level GHz, If the er the peak dete limit, the pea | ons shall be 1 m to 4 m plane. able Loss + mission level ctor is 3 dB k emission | |
|---|-----------------------|---|--|--|--|--|
| 3 | | meas detect 5. Use th (1) Sp er (2) So (3) So m (3) So For a duty when the n trans | will be reported. Oth surement will be rep ctor and reported. he following spectrum pan shall wide enoug mission being measu et RBW=120 kHz for weep = auto; Detect ax hold; et RBW = 1 MHz, VE eak measurement. average measureme cycle is no less than n duty cycle is less than n duty cycle is less than ninimum transmission smitter is on and is tr er control level for th | eated using the manalyzer set gh to fully cap ured; f < 1 GHz; VIor function = pBW= 3MHz fornt: VBW = 1098 percent. Nation overansmitting at it | te quasi-peak ttings: ture the BW \geq RBW; peak; Trace = r f >1 GHz for Hz, when /BW \geq 1/T, t where T is er which the ts maximum | |
| Test result | ts: | | | | e of operation. | |
| Test result | ts: | PASS | | | or operation. | |
| Test resul | ts: | | | | or operation. | |
| Test resul Image: Constraint of the second | ts: | | | | e of operation. | |
| Test resul Image: Im | ts: | | | | | |

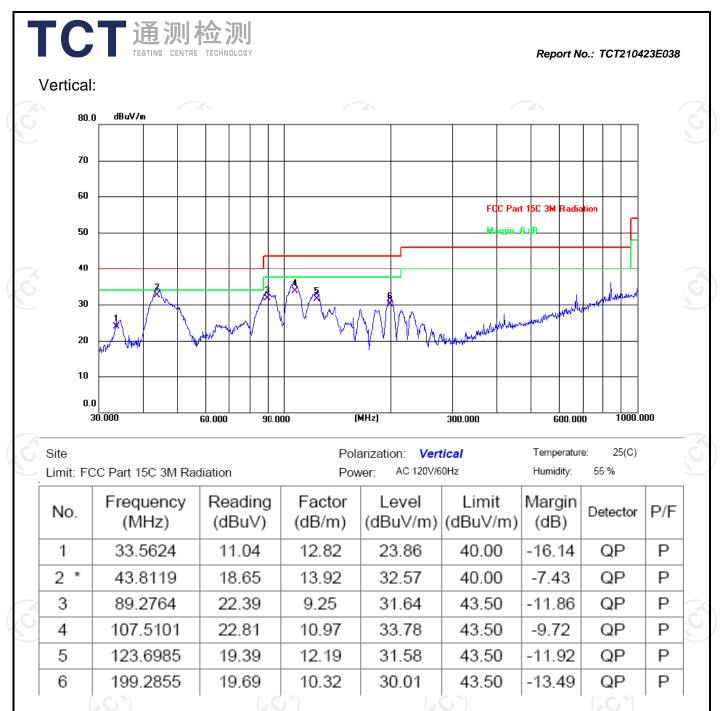
6.7.2. Test Instruments

| | Radiated Em | ission Test Site | e (966) | |
|----------------------|--|------------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Test Receiver | ROHDE&SCHW ARZ | ESIB7 | 100197 | Jul. 27, 2021 |
| Spectrum Analyzer | ROHDE&SCHW ARZ | FSQ40 | 200061 | Sep. 11, 2021 |
| Pre-amplifier | EM Electronics Corporation CO.,LTD | EM30265 | 07032613 | Sep. 02, 2021 |
| Pre-amplifier | HP | 8447D | 2727A05017 | Sep. 02, 2021 |
| Loop antenna | ZHINAN | ZN30900A | 12024 | Sep. 05, 2022 |
| Broadband Antenna | Schwarzbeck | VULB9163 | 340 | Sep. 04, 2022 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 631 | Sep. 04, 2022 |
| Horn Antenna | A-INFO | LB-180400-KF | J211020657 | Sep. 04, 2022 |
| Antenna Mast | Keleto | RE-AM | N/A | N/A |
| Line-4 | тст | RE-high-04 | N/A | Sep. 02, 2021 |
| Line-8 | тст | RE-01 | N/A | Jul. 27, 2021 |
| EMI Test Software | Shurple Technology | EZ-EMC | N/A | N/A |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 23 of 71





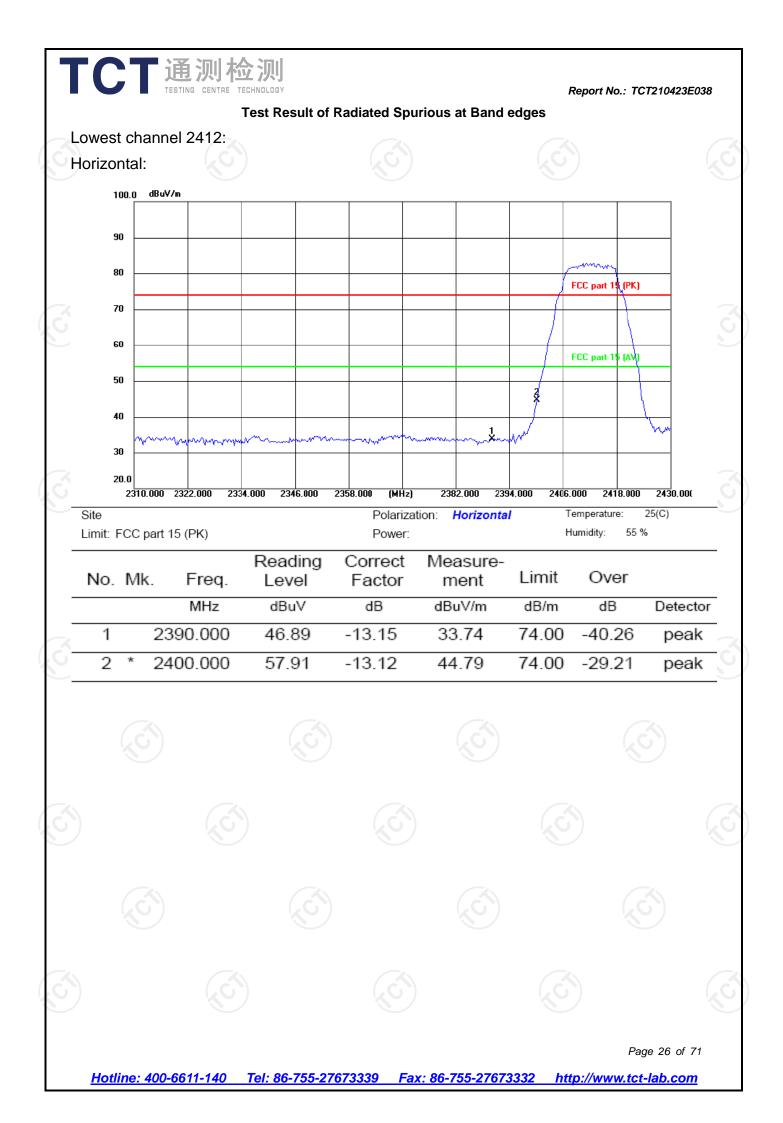
Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

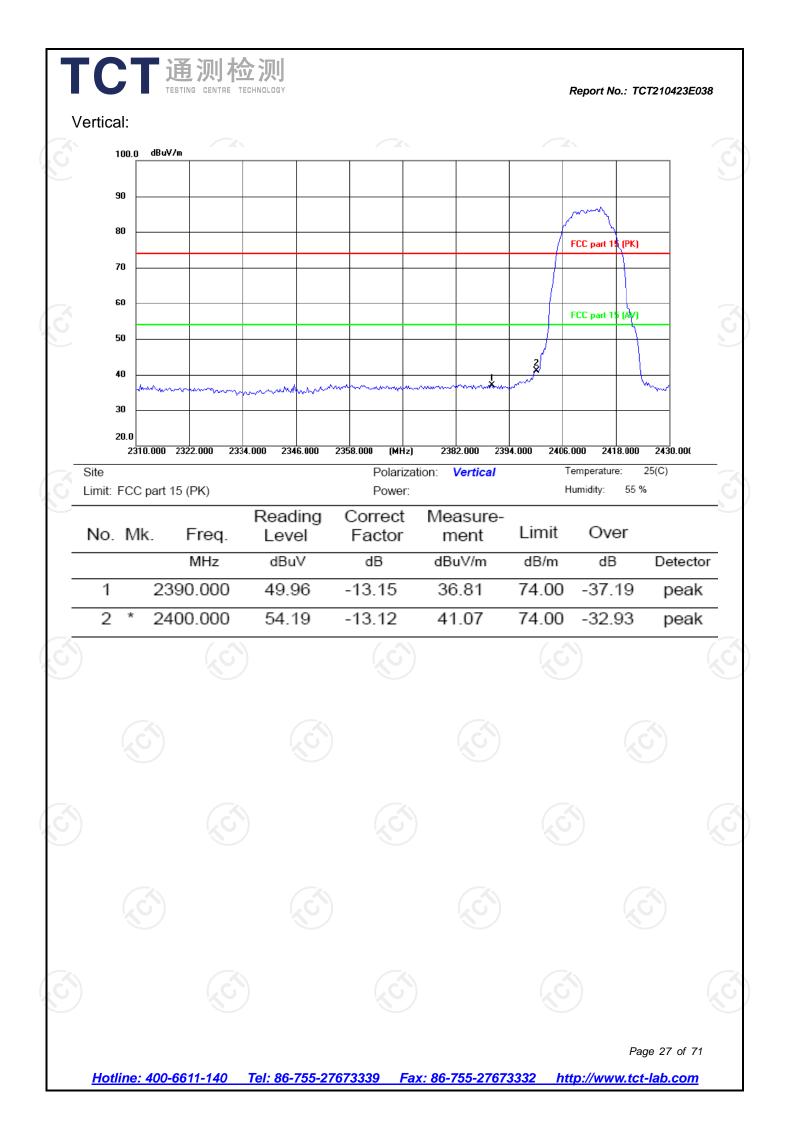
2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Highest channel and 802.11g) was submitted only.

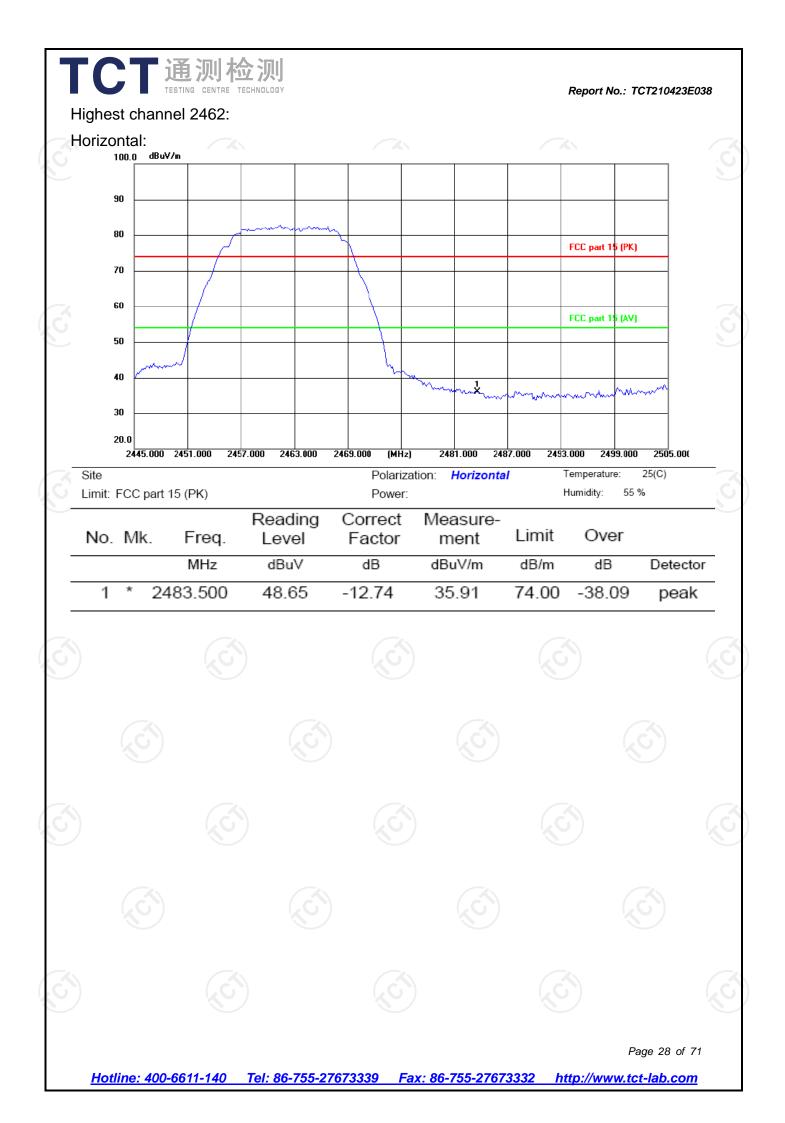
3. Freq. = Emission frequency in MHz

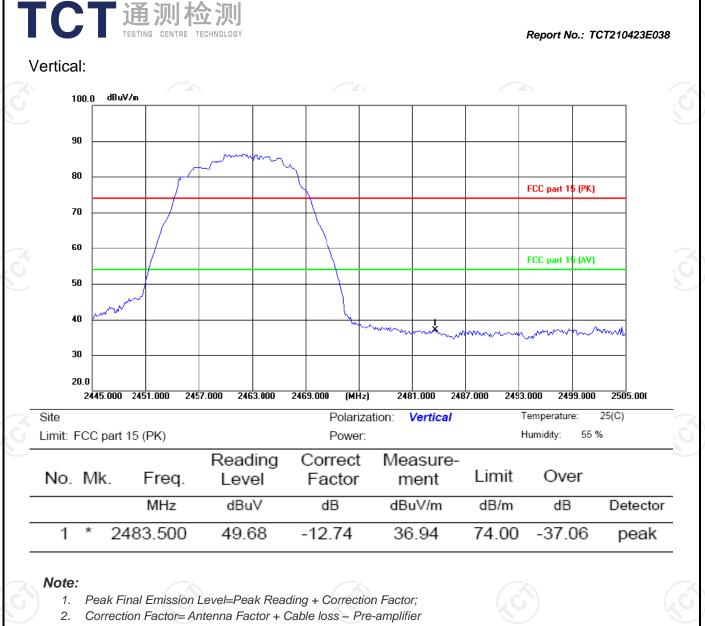
Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit (dB μ V/m) = Limit stated in standard Margin (dB) = Measurement (dB μ V/m) – Limits (dB μ V/m)

* is meaning the worst frequency has been tested in the test frequency range









3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11g) was submitted only.

| | worst case | è Моае 802.11g, | | oniy. | | | | |
|---|----------------|-----------------|---------------|-------------|---------------|--------------|------------|--|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| н | otline: 400-66 | 611-140 Tel | : 86-755-2767 | 3339 Fax: 6 | 36-755-276733 | 332 http://w | Page 29 of | |

| ТС | TESTING | 测检 CENTRE TECHN | | | 1GHz | | Repo | ort No.: TCT21 | 10423E038 |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| | | | | odulation T | | | | | |
| | | | L | ow channe | I: 2412 MH | Z | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4824 | Н | 46.05 | | 0.75 | 46.80 | | 74 | 54 | -7.20 |
| 7236 | Н | 36.82 | | 9.87 | 46.69 | | 74 | 54 | -7.31 |
| | Н | | | | | × | | | |
| | \mathcal{S} | • | 66 | | (| \mathcal{G} | • | | |
| 4824 | V | 44.17 | | 0.75 | 44.92 | | 74 | 54 | -9.08 |
| 7236 | V | 33.60 | | 9.87 | 43.47 | | 74 | 54 | -10.53 |
| | V | | | | | | | | |
| * | | | • | | | | | • | |
| | | | Μ | iddle chanr | el: 2437MH | Ιz | (.c.) | | |
| | | Peak | | Correction | Emissio | n Level | | | |

| | | | IVI | iuule chan | IEI. 2437 IVIE | 12 | | | |
|-----------|-----------|-------------------|----------------------|------------------|------------------|----------------|------------|-------------|--------|
| Frequency | Ant. Pol. | Peak | AV reading | Correction | Emissic | on Level | Peak limit | AV limit | Margin |
| (MHz) | H/V | reading (dBµV) | AV reading (dBµV) | Factor (dB/m) | Peak (dBµV/m) | AV (dBµV/m) | (dBµV/m) | (dBµV/m) | (dB) |
| 4874 | Н | 45.83 | | 0.97 | 46.80 | | 74 | 54 | -7.20 |
| 7311 | н | 36.46 | | 9.83 | 46.29 | | 74 | 54 | -7.71 |
| | ЧН | | 1×0 | | | | | <u>ik</u> O | / |
| | | | | | | | | | |
| 4874 | V | 45.29 | | 0.97 | 46.26 | | 74 | 54 | -7.74 |
| 7311 | V | 36.71 | | 9.83 | 46.54 | | 74 | 54 | -7.46 |
| × | V | | | | | | | | (|
| | | | | | | | | | |

| | | | Н | ligh channe | el: 2462 MH | z | | | 1 |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | | Margin (dB) |
| 4924 | H | 44.58 | | 1.18 | 45.76 | | 74 | 54 | -8.24 |
| 7386 | Н | 33.94 | × | 10.07 | 44.01 | | 74 | 54 | -9.99 |
| | Н | | | | | | | | |
| 4924 | V | 46.37 | | 1.18 | 47.55 | | 74 | 54 | -6.45 |
| 7386 | V | 35.62 | | 10.07 | 45.69 | | 74 | 54 | -8.31 |
| / | V | | | X | / | | | | X |

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.

Page 30 of 71

| 3μV/m) (dE 74 74 74 74 74 74 | V limit Marg 3µV/m) (dE 54 -7.5 54 -9.0 54 -8.6 54 -10.1 |
|--|---|
| 74 74 74 | 54 -9.0 54 -8.6 54 -10.3 |
| 74 74 74 | 54 -8.6 54 -10.9 |
| 74 | 54 -8.6 54 -10.9 |
| 74 | 54 -10. |
| 74 | 54 -10. |
| | |
| | |
| ak limit A | |
| ak limit A | |
| AK IIMIT I A | |
| | V limit Marq BµV/m) (dÈ |
| 74 | 54 -8.1 |
| 74 | 54 -9.8 |
| | |
| 74 | |
| | 54 -7.4 |
| | 54 -7.6 |
| | |
| <u>.</u> | |
| | |
| | V limit Mare BµV/m) (dÈ |
| 74 | 54 -7.5 |
| 74 | 54 -6.9 |
| | |
| 74 | 54 -6.3 |
| | 54 -10. |
| | |
| | 74 74 |

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.

| | TESTING | CENTRE TECH | | | | | Repo | ort No.: TCT21 | 0423E038 |
|-------------------|------------------|-------------------|----------------------|------------------|------------------|----------------|------------------------|----------------------|----------------|
| | | | | | : 802.11n (H | , | | | |
| | | | L | | I: 2412 MH | | | | |
| requency | Ant. Pol. | Peak | AV reading | Correction | | on Level | Peak limit | AV limit | Margin |
| (MHz) | H/V | reading (dBµV) | (dBuV) | Factor (dB/m) | Peak (dBµV/m) | AV (dBµV/m) | (dBµV/m) | (dBµV/m) | (dĔ) |
| 4824 | Н | 46.72 | | 0.75 | 47.47 | | 74 | 54 | -6.53 |
| 7236 | Н | 37.59 | | 9.87 | 47.46 | | 74 | 54 | -6.54 |
| | Н | | | | | | | | |
| | | | | | | | | | |
| 4824 | 0 V | 46.04 | | 0.75 | 46.79 | | 74 | 54 | -7.21 |
| 7236 | V | 35.61 | | 9.87 | 45.48 | | 74 | 54 | -8.52 |
| | V | | | | | | | | |
| | | | М | iddle chanr | nel: 2437MF | 17 | <u>_</u> 1. | | |
| | | Peak | | Correction | | n Level | | | |
| requency (MHz) | Ant. Pol. H/V | reading (dBµV) | AV reading (dBµV) | Factor (dB/m) | Peak (dBµV/m) | AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4874 | Н | 46.90 | | 0.97 | 47.87 | | 74 | 54 | -6.13 |
| 7311 | Н | 36.15 | | 9.83 | 45.98 | | 74 | 54 | -8.02 |
| | Н | | | | / | | | | |
| | (\mathbf{O}) | | KO. |) | | | | KO) | |
| 4874 | V | 45.82 | | 0.97 | 46.79 | | 74 | 54 | -7.21 |
| 7311 | V | 35.27 | | 9.83 | 45.10 | | 74 | 54 | -8.90 |
| | V | | | | | | | | |
| | | | | | | | | | |
| | | | H | ligh channe | el: 2462 MH | Z | | | |
| requency | Ant. Pol. | Peak | AV reading | Correction | | on Level | Peak limit | AV limit | Margin |
| (MHz) | H/V | reading (dBµV) | (dBµV) | Factor (dB/m) | Peak (dBµV/m) | AV (dBµV/m) | (dBµV/m) | | (dB) |
| 4924 | Н | 45.63 | | 1.18 | 46.81 | | 74 | 54 | -7.19 |
| 7386 | Н | 36.48 | | 10.07 | 46.55 | | 74 | 54 | -7.45 |
| | Н | | | | | | | - | |
| 4924 | V | 43.96 | | 1.18 | 45.14 | | 74 | 54 | -8.86 |
| 7386 | V | 34.35 | | 10.07 | 44.42 | | 74 | 54 | -9.58 |
| | V | | | | | | | | |
| Note: | • | | 1 1 | | (c | L | | | |

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.

| | TESTING | CENTRE TECH | Modu | lation Type | : 802.11n (H | HT40) | Repo | ort No.: TCT21 | 0423E038 |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| | | | | | I: 2422 MH | | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4844 | Н | 43.65 | | 0.75 | 44.40 | | 74 | 54 | -9.60 |
| 7266 | Н | 34.81 | | 9.87 | 44.68 | | 74 | 54 | -9.32 |
| | Н | | | | | | | | |
| | | | | | | | | | |
| 4824 | ΟV | 46.36 | 20 | 0.75 | 47.11 | \mathcal{O} | 74 | 54 | -6.89 |
| 7236 | V | 37.58 | | 9.87 | 47.45 | | 74 | 54 | -6.55 |
| | V | | | | | | | | |
| | | | | | | | | | |
| ž. | | | M | iddle chanr | el: 2437MF | | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4874 | Н | 45.74 | | 0.97 | 46.71 | | 74 | 54 | -7.29 |
| 7311 | Н | 36.92 | | 9.83 | 46.75 | | 74 | 54 | -7.25 |
| / | Н | | | | / | | | <i>+</i> - ~ | |
| | | | KO. |) | | | | KO / | |
| 4874 | V | 47.27 | | 0.97 | 48.24 | <u> </u> | 74 | 54 | -5.76 |
| 7311 | V | 36.40 | | 9.83 | 46.23 | | 74 | 54 | -7.77 |
| | V | | | | | | | | |
| | | | | | | | | | |
|) | | 1(()) | F | | el: 2452 MH | | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4904 | H | 48.19 | | 1.18 | 49.37 | <u> </u> | 74 | 54 | -4.63 |
| 7356 | H | 37.67 | | 10.07 | 47.74 | | 74 | 54 | -6.26 |
| | Н | | | | | | | | |
| 4904 | V | 45.93 | | 1.18 | 47.11 | | 74 | 54 | -6.89 |
| 7356 | V | 35.08 | | 10.07 | 45.15 | | 74 | 54 | -8.85 |
| | V | | | | | | | | |
| Note: | - | | 1 | |) | | | I | |

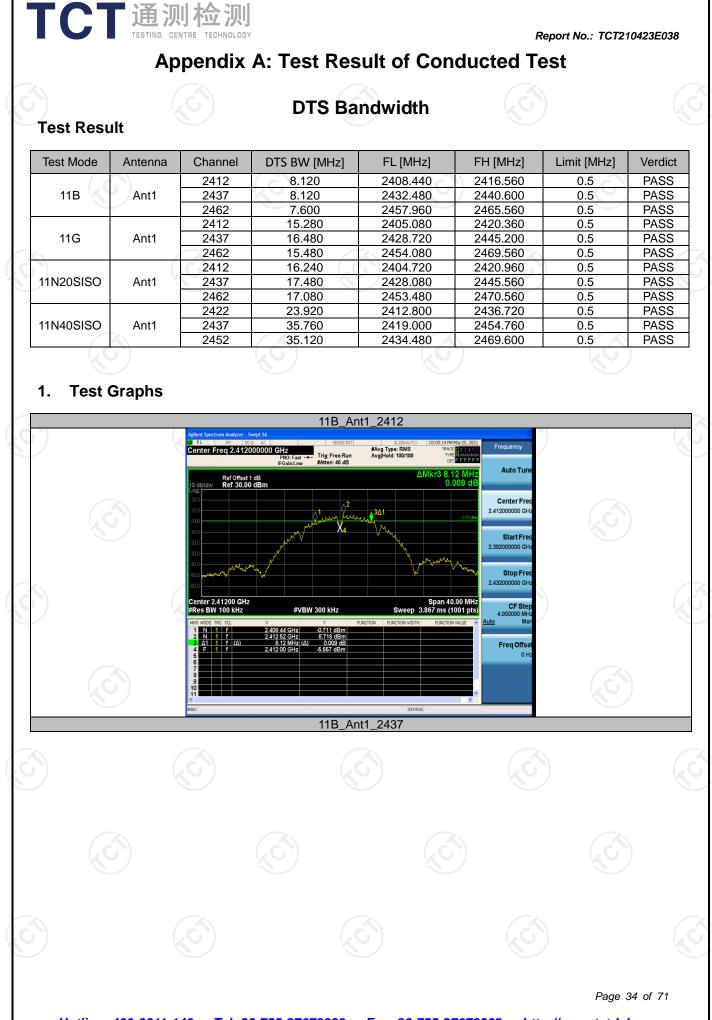
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

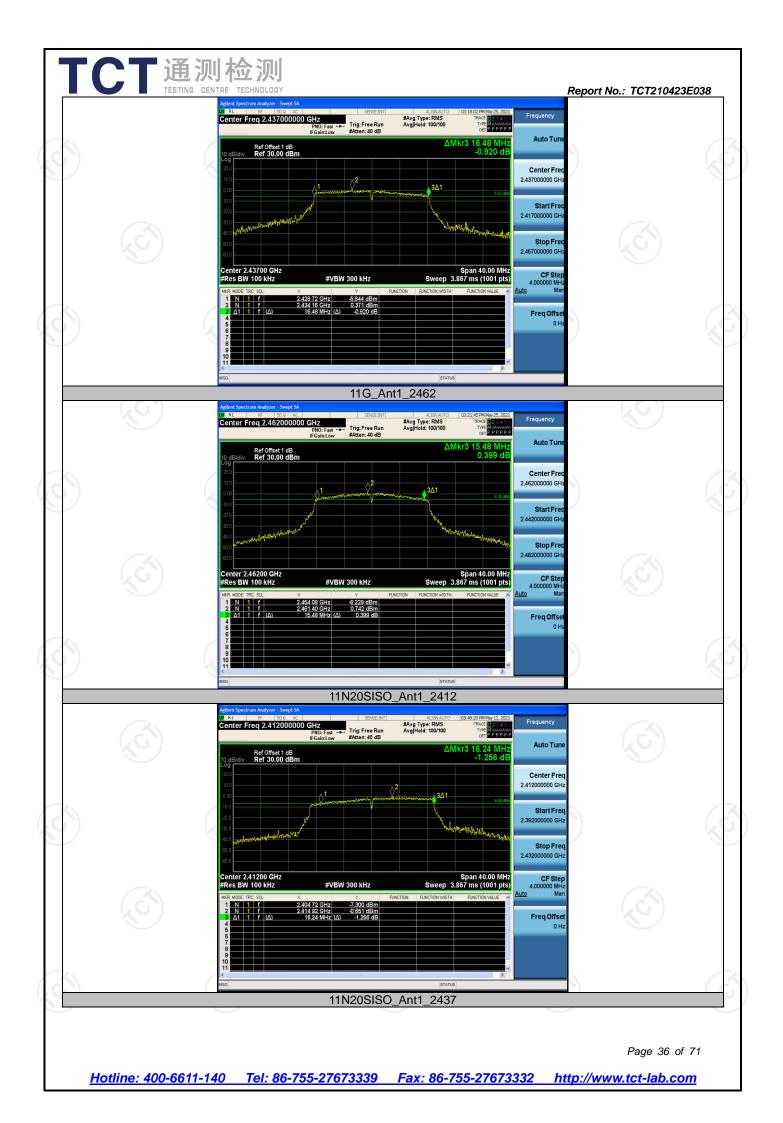
5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

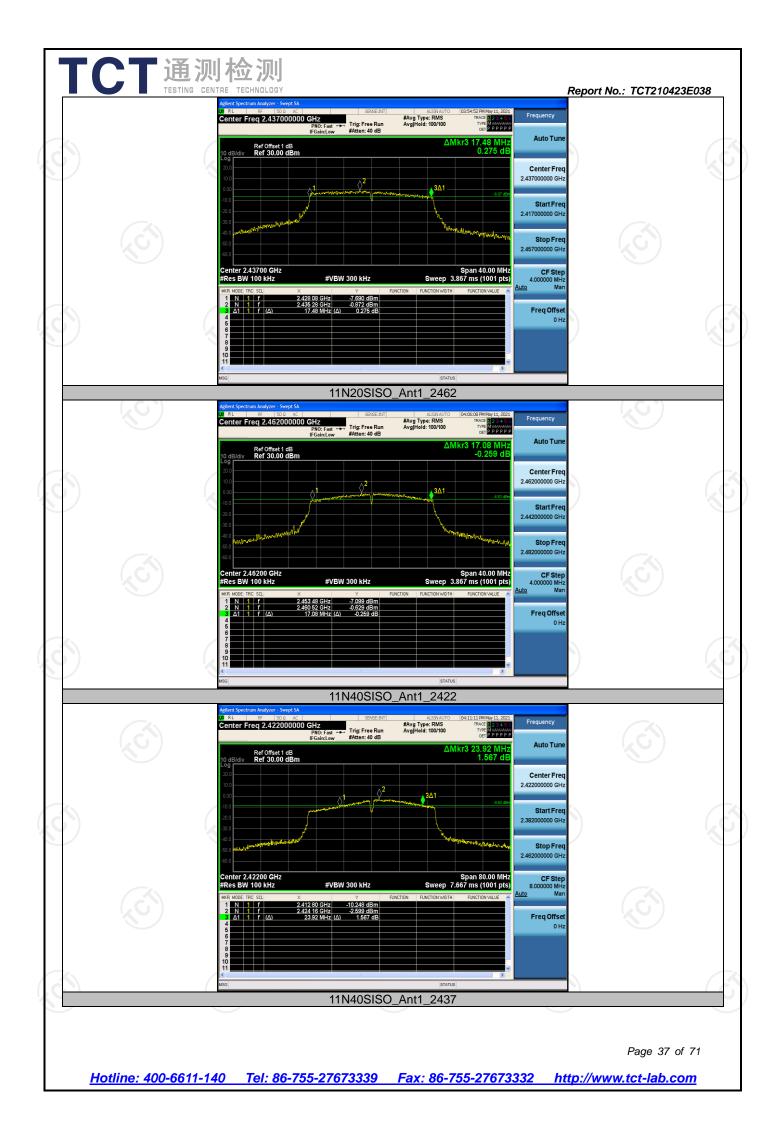
6. All the restriction bands are compliance with the limit of 15.209.

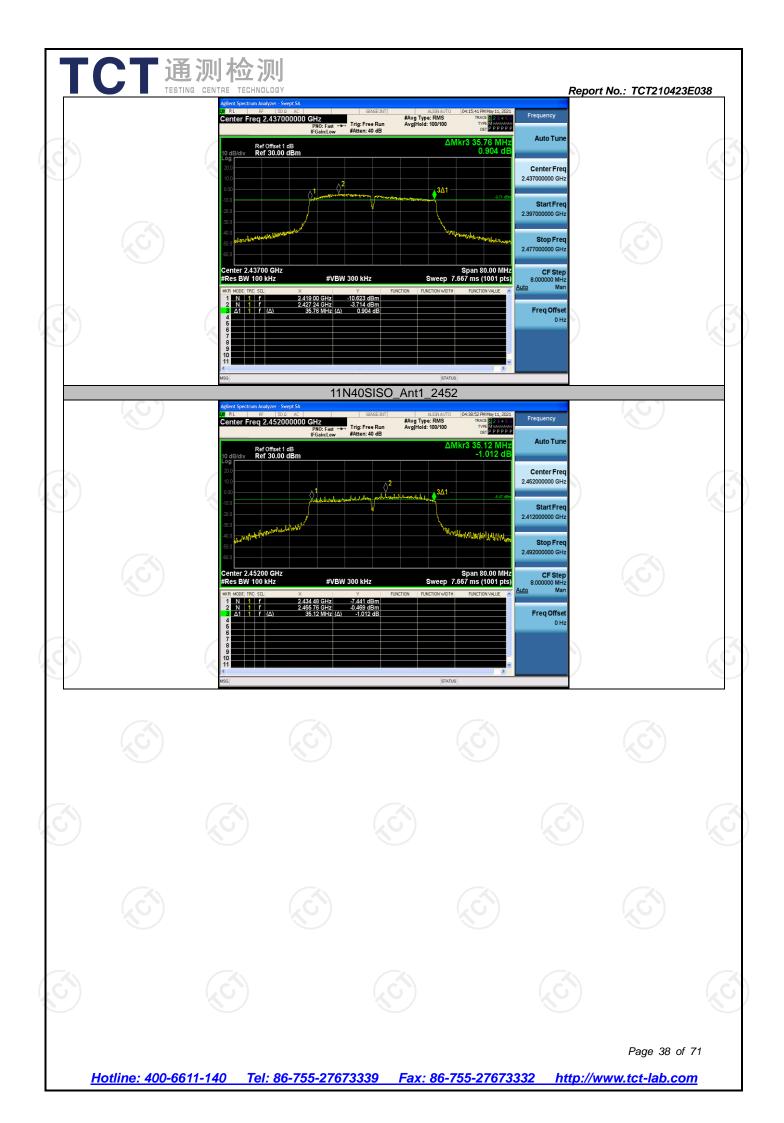
Page 33 of 71

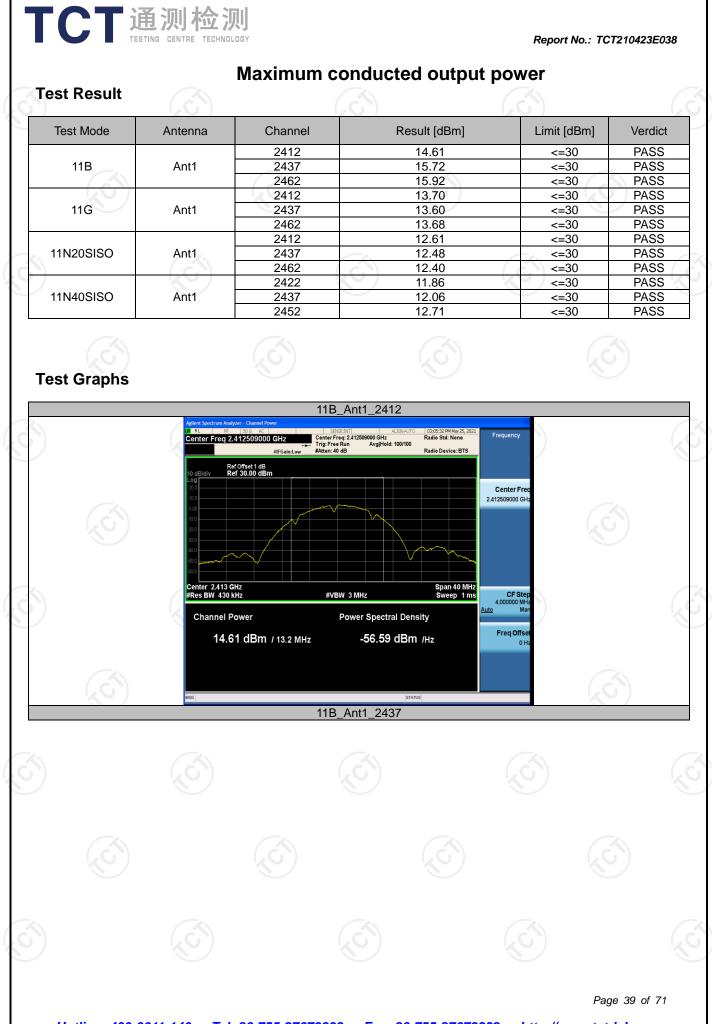




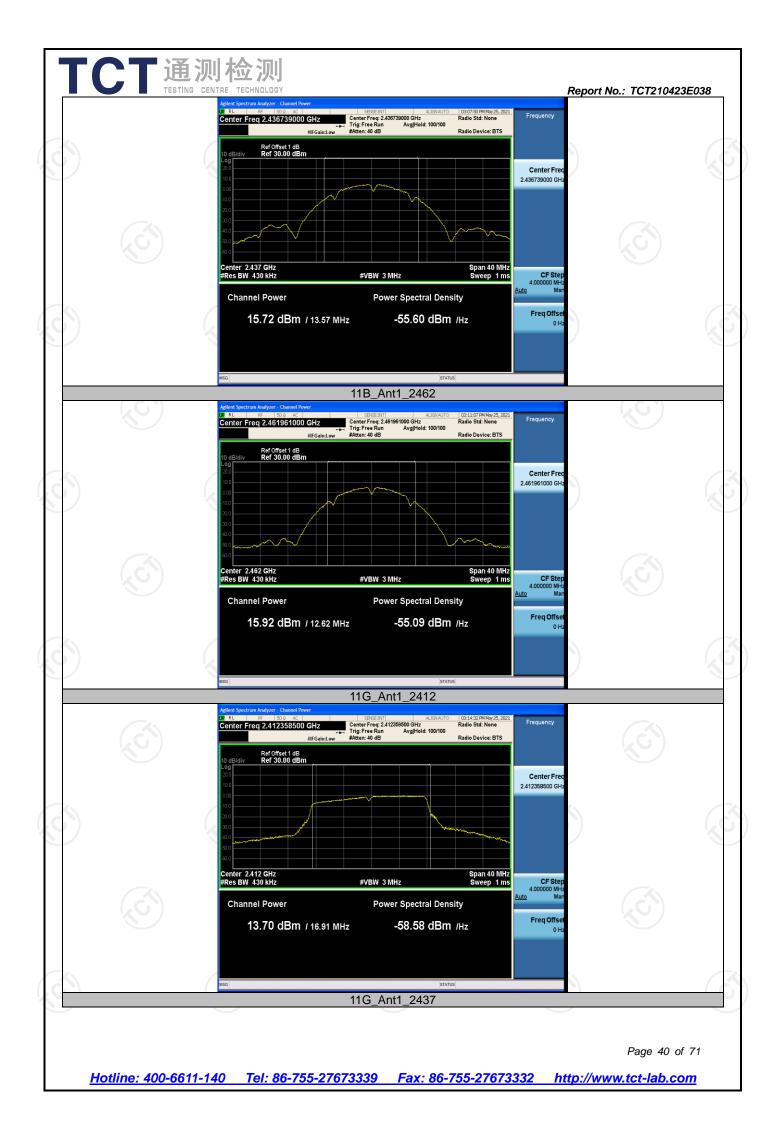


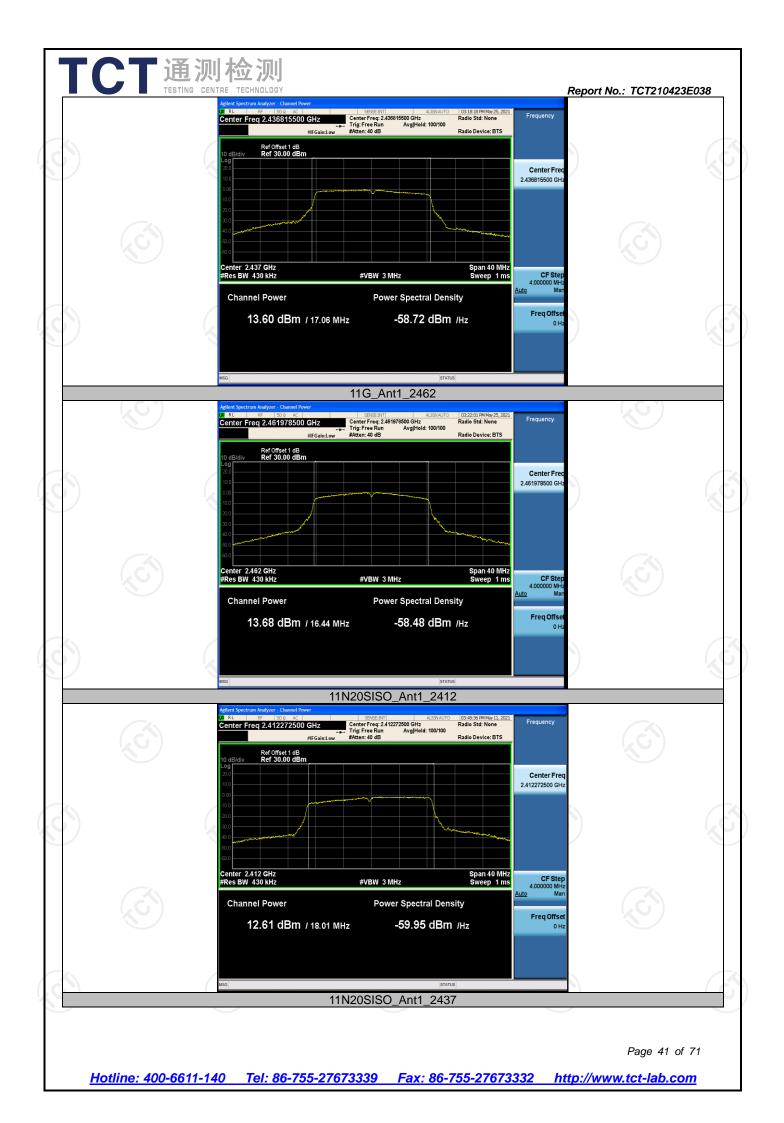


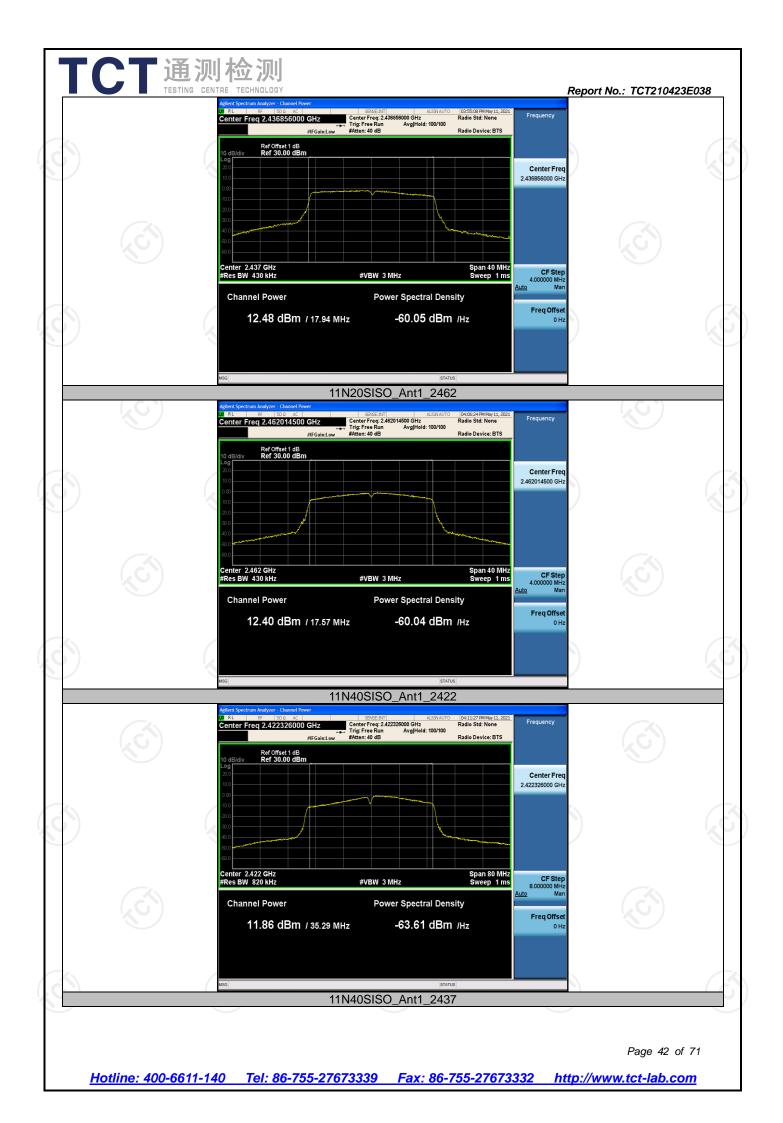


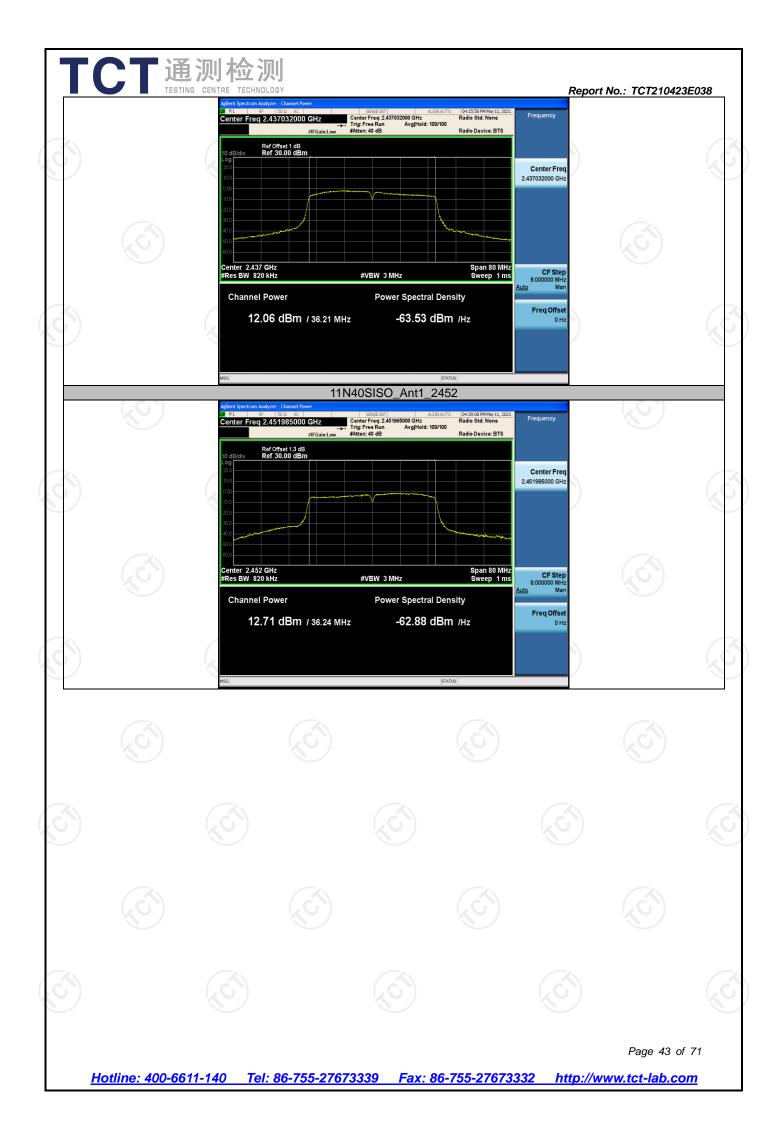


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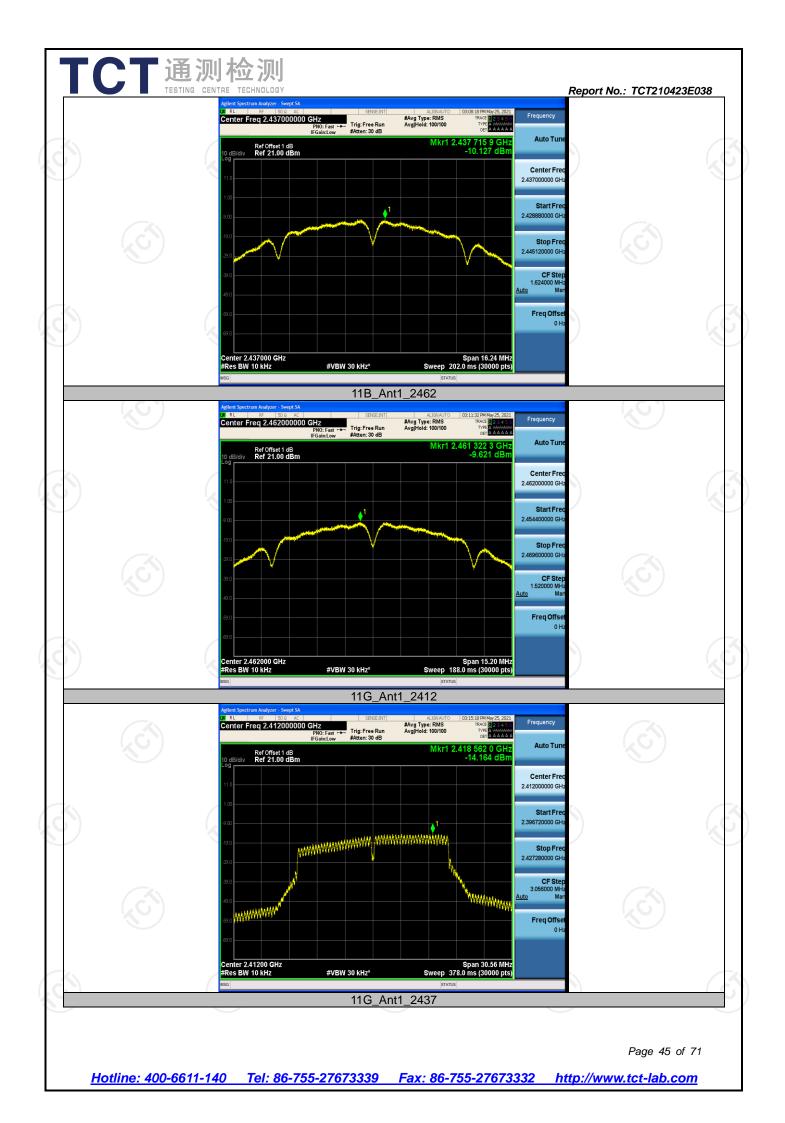
Result Result Limit Test Mode Antenna Channel Verdict [dBm/10kHz] [dBm/3kHz] [dBm/3kHz] 2412 -11.24 -16.65 PASS <=8 11B Ant1 2437 -10.13 -15.54 PASS <=8 -15.03 PASS 2462 -9.62 <=8 PASS 2412 -14.16 -19.57 <=8 11G 2437 -14.57 PASS Ant1 -19.98 <=8 2462 -13.55 -18.96 PASS <=8 2412 -15.45 -20.68 <=8 PASS 11N20SISO PASS Ant1 2437 -15.8 -21.03 <=8 2462 -15.55 -20.78 PASS <=8 2422 -17.27 -22.50 PASS <=8 11N40SISO Ant1 2437 -18.79 -24.02 <=8 PASS PASS 2452 -17.31 -22.54 <=8 **Test Graphs** 11B_Ant1_2412 Agenting parts and the second Frequency #Avg Type: RMS Avg|Hold: 100/100 Auto Tui Mkr1 2.412 711 6 G -11.242 dB Ref Offset 1 dB Ref 21.00 dBm Center Fre 2.412000000 GH Start Fre 2.403880000 GH Stop Fre 2.420120000 GH CF Ste 1.624000 Mi Auto Ma Freq Offse 0 H Span 16.24 MHz Sweep 202.0 ms (30000 pts) er 2.412000 GHz BW 10 kHz #VBW 30 kHz* 11B_Ant1_2437 Page 44 of 71

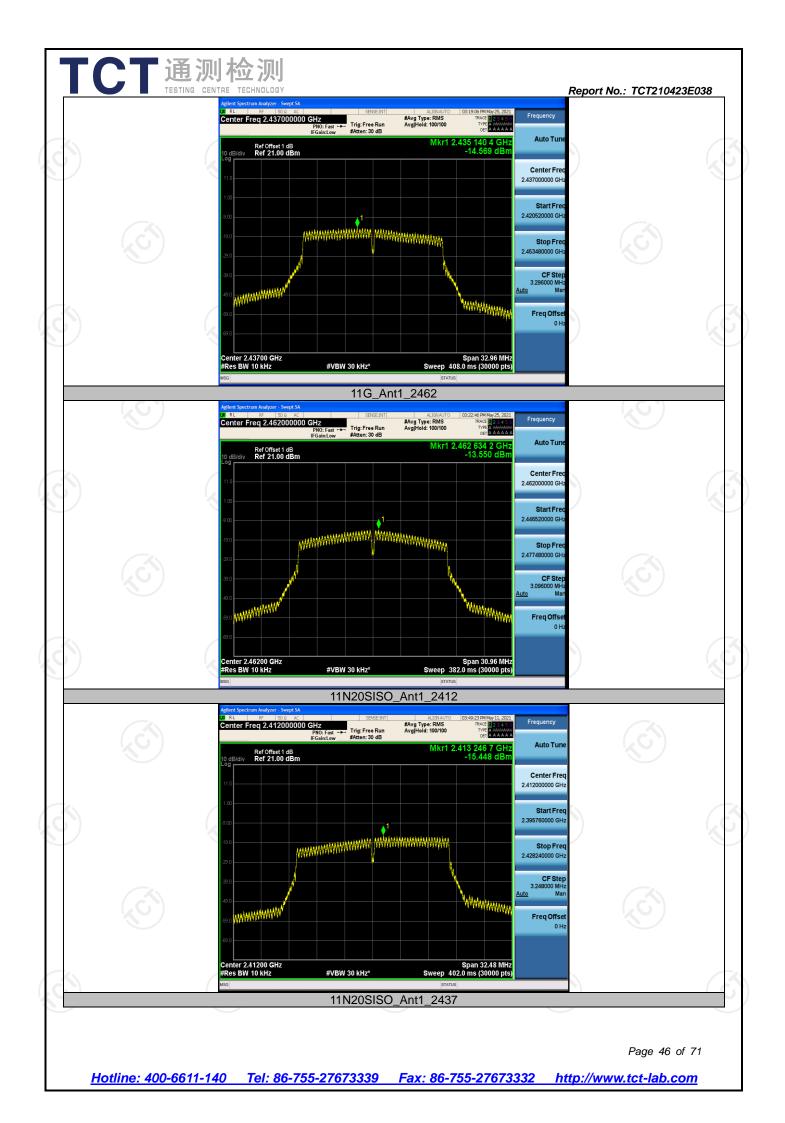
Test Result

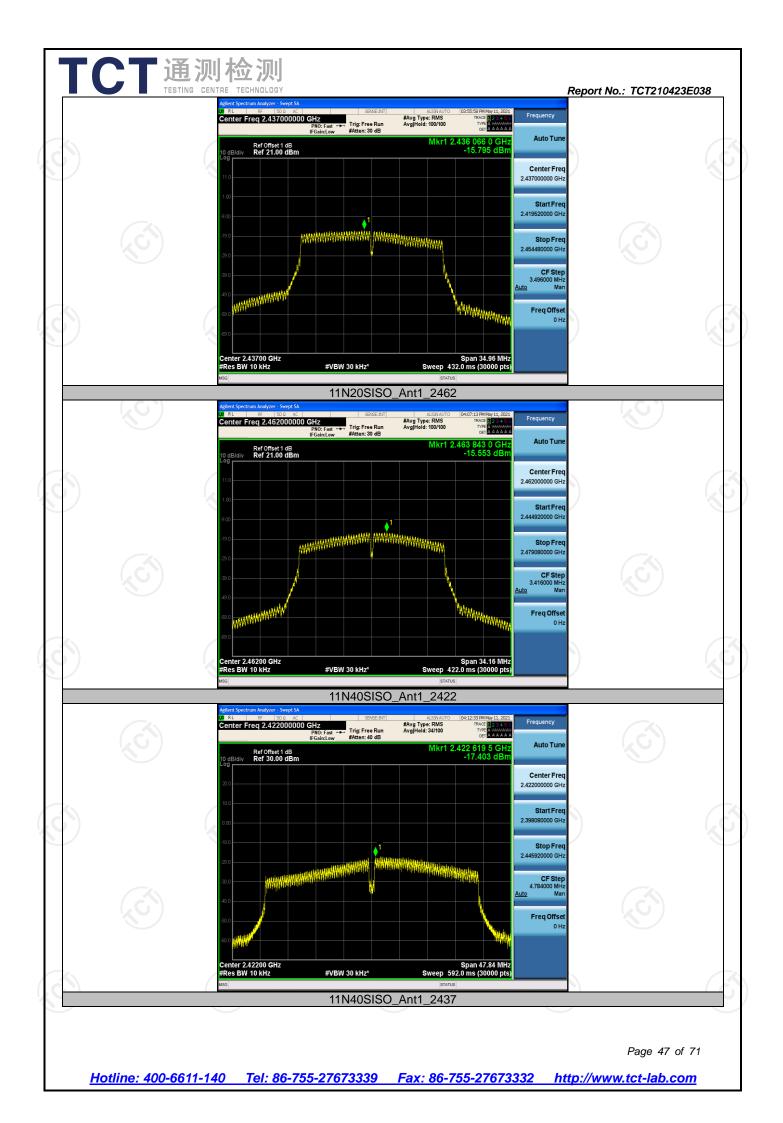
Maximum power spectral density

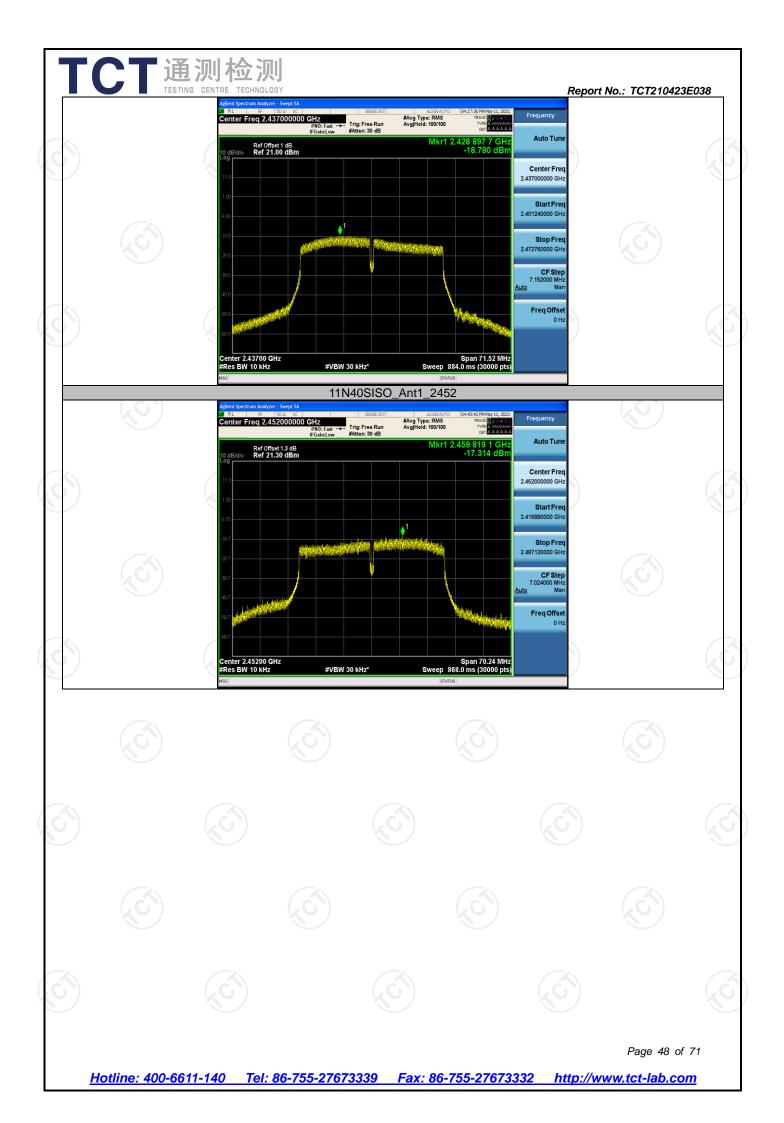
Report No.: TCT210423E038

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Band edge measurements

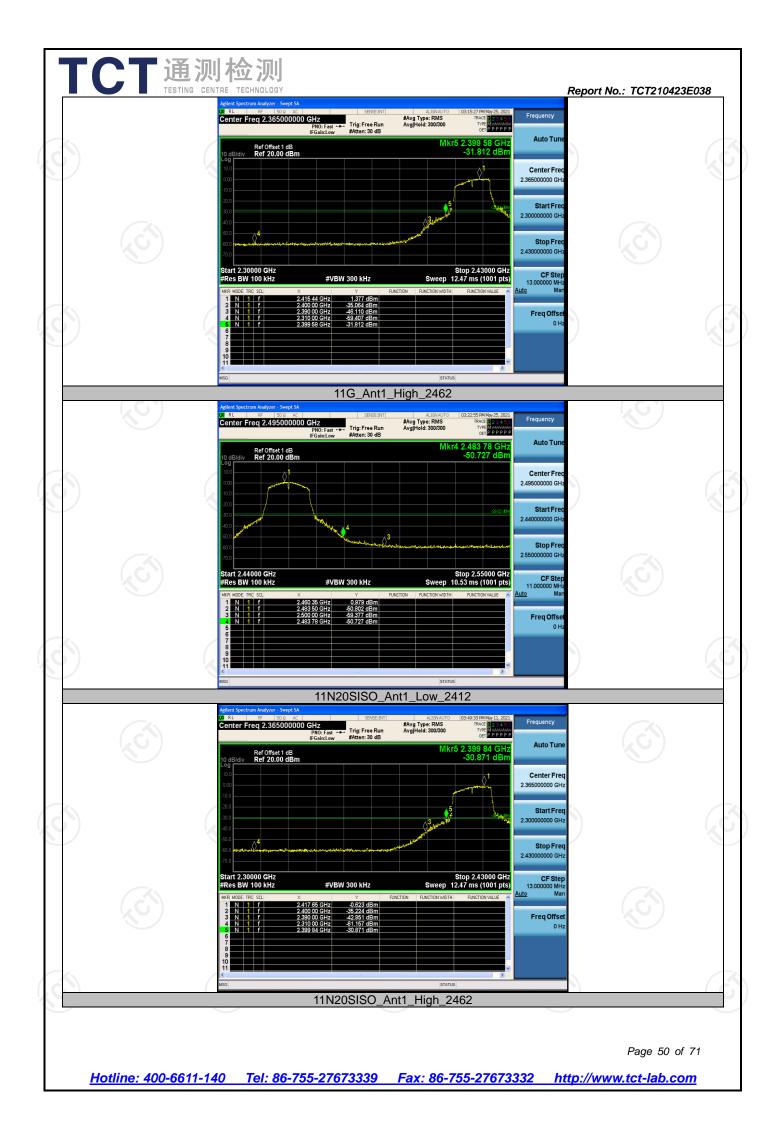
Test Result

TCT 通测检测 TESTING CENTRE TECHNOLOGY

| | | | <u>(</u>) | (201) | | | |
|----------------|--------------|---|---|---|---|--|--|
| Antenna | Ch Name | Channel | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict | |
| 11B Ant1 | Low | 2412 | 6.89 | -35.64 | <=-23.11 | PASS | |
| | High | 2462 | 5.64 | -38.94 | <=-24.37 | PASS | |
| 11G Ant1 | Low | 2412 | 1.38 | -31.81 | <=-28.62 | PASS | |
| | High | 2462 | 0.98 | -50.73 | <=-29.02 | PASS | |
| 11N20SISO Ant1 | Low | 2412 | -0.62 | -30.87 | <=-30.62 | PASS | |
| | High | 2462 | 0.10 | -49.03 | <=-29.9 | PASS | |
| A | Low | 2422 | -2.10 | -39.31 | <=-32.1 | PASS | |
| Anti | High | 2452 | 0.12 | -36 | <=-29.88 | PASS | |
| | Ant1 Ant1 | Ant1 Low Ant1 Low Ant1 High Ant1 Low Ant1 Low High Ant1 Low | Ant1 Low 2412 High 2462 Ant1 Low 2412 High 2462 Ant1 High 2462 Ant1 High 2462 Ant1 Low 2412 High 2462 2412 Ant1 Low 2412 High 2462 2422 | Ant1 Low 2412 6.89 Ant1 High 2462 5.64 Ant1 Low 2412 1.38 Ant1 High 2462 0.98 Ant1 Low 2412 -0.62 Ant1 Low 2462 0.10 Ant1 Low 2462 0.10 Ant1 Low 2422 -2.10 | Ant1 Low 2412 6.89 -35.64 High 2462 5.64 -38.94 Ant1 Low 2412 1.38 -31.81 High 2462 0.98 -50.73 Ant1 Low 2412 -0.62 -30.87 Ant1 Low 2462 0.10 -49.03 Ant1 Low 2422 -2.10 -39.31 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |

Test Graphs







Test Result

Conducted Spurious Emission

| Test Mode | Antenna | Channel | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|--------------|---------|--------------------------|---------------------|--------------------|-----------------|----------------|---------|
| 11B Ant1 | | | Reference | 6.61 | 6.61 | | PASS |
| | | 2412 | 30~1000 | 30~1000 | -66.277 | <=-23.392 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.183 | <=-23.392 | PASS |
| | | 2437 | Reference | 7.19 | 7.19 | | PASS |
| | Ant1 | | 30~1000 | 30~1000 | -68.169 | <=-22.81 | PASS |
| | | | 1000~26500 | 1000~26500 | -43.072 | <=-22.81 | PASS |
| | | | Reference | 7.75 | 7.75 | | PASS |
| | | 2462 | 30~1000 | 30~1000 | -68.277 | <=-22.252 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.989 | <=-22.252 | PASS |
| 11G Ant1 | | 2412 | Reference | 0.97 | 0.97 | | PASS |
| | | | 30~1000 | 30~1000 | -66.138 | <=-29.028 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.454 | <=-29.028 | PASS |
| | | 2437 | Reference | 0.75 | 0.75 | | PASS |
| | Ant1 | | 30~1000 | 30~1000 | -68.405 | <=-29.249 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.951 | <=-29.249 | PASS |
| | | 2462 | Reference | 1.24 | 1.24 | (| PASS |
| | | | 30~1000 | 30~1000 | -68.45 | <=-28.758 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.741 | <=-28.758 | PASS |
| | | | Reference | -0.83 | -0.83 | | PASS |
| | 2412 | 30~1000 | 30~1000 | -69.127 | <=-30.825 | PASS | |
| | | $(\mathbf{J}\mathbf{G})$ | 1000~26500 | 1000~26500 | -42.87 | <=-30.825 | PASS |
| | Ant1 | 2437 | Reference | -1.19 | -1.19 | J | PASS |
| 11N20SISO | | | 30~1000 | 30~1000 | -68.653 | <=-31.188 | PASS |
| | | | 1000~26500 | 1000~26500 | -43.226 | <=-31.188 | PASS |
| | | 2462 | Reference | -0.54 | -0.54 | | PASS |
| | | | 30~1000 | 30~1000 | -68.605 | <=-30.54 | PASS |
| | | | 1000~26500 | 1000~26500 | -43.113 | <=-30.54 | PASS |
| 11N40SISO An | | 2422 | Reference | -2.22 | -2.22 | | PASS |
| | | | 30~1000 | 30~1000 | -68.572 | <=-32.222 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.653 | <=-32.222 | PASS |
| | Ant1 | 2437 | Reference | -3.84 | -3.84 | | PASS |
| | | | 30~1000 | 30~1000 | -68.65 | <=-33.844 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.233 | <=-33.844 | PASS |
| | | 2452 | Reference | 0.10 | 0.10 | | PASS |
| | | | 30~1000 | 30~1000 | -67.939 | <=-29.905 | PASS |
| | | | 1000~26500 | 1000~26500 | -42.628 | <=-29.905 | PASS |
| R.C. | | | 6 | 1000~20000 | -42.020 | <=-23.303 | |

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