# FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Chunghsin Technology Group CO.,LTD

10.1" Android Tablet

Model Number: ONA19TB003

FCC ID: 2AE2WT1015M

| | |
|---|---|
| Prepared for: | Chunghsin Technology Group CO.,LTD |
| | No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, |
| | ZHEJIANG, CHINA |
| | |
| Prepared By: | EST Technology Co., Ltd. |
| | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China |
| Tel: 86-769-83081888-808 | |

| | |
|---|---|
| Report Number: | ESTE-R1901047 |
| Date of Test: | Dec. 11, 2018~Jan. 17, 2019 |
| Date of Report: | Jan. 17, 2019 |

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# EST Technology Co., Ltd.

| | |
|---|---|
| **Applicant:**<br>**Address:** | Chunghsin Technology Group CO.,LTD<br>No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA |
| **Manufacturer:**<br>**Address:** | Chunghsin Technology Group CO.,LTD<br>No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA |
| **E.U.T:** | 10.1" Android Tablet |
| **Model Number:** | ONA19TB003 |
| **Power Supply:** | DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A<br>DC 3.7V From battery |
| **Test Voltage:** | DC 5V From Adapter Input AC 120V/60Hz, 0.3A<br>DC 5V From Adapter Input AC 240V/50Hz, 0.3A |
| **Trade Name:** | onn Serial No.: ------ |
| **Date of Receipt:** | Dec. 11, 2018 Date of Test: Dec. 11, 2018~Jan. 17, 2019 |
| **Test Specification:** | FCC Rules and Regulations Part 15 Subpart E:2018<br>ANSI C63.10:2013 |
| **Test Result:** | The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements.<br><br>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.<br>**Date:** Jan. 17, 2019 |

| Prepared by: | Reviewed by: | Approved by: |
|---|---|---|
| Ring / Assistant | Tony / Engineer | Iceman Hu / Manager |

**Other Aspects:**
None.

*Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested*

*This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.*

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

| | | |
|---|---|---|
| Product Name | : | 10.1" Android Tablet |
| FCC ID | : | 2AE2WT1015M |
| Model Number | : | ONA19TB003 |
| Operation frequency | : | UNII Band I:<br>IEEE 802.11a: 5180 ~ 5240MHz;<br>IEEE 802.11n HT20: 5180 ~ 5240MHz;<br>IEEE 802.11n HT40: 5190 ~ 5230MHz;<br>UNII Band II:<br>IEEE 802.11a: 5260 ~ 5320MHz;<br>IEEE 802.11n HT20: 5260 ~ 5320MHz;<br>IEEE 802.11n HT40: 5270 ~ 5310MHz;<br>UNII Band III:<br>IEEE 802.11a: 5500 ~ 5700MHz;<br>IEEE 802.11n HT20: 5500 ~ 5700MHz;<br>IEEE 802.11n HT40: 5510 ~ 5670MHz;<br>UNII Band IV:<br>IEEE 802.11a: 5745 ~ 5825MHz;<br>IEEE 802.11n HT20: 5745 ~ 5825MHz;<br>IEEE 802.11n HT40: 5755 ~ 5795MHz; |
| Number of channel | : | UNII Band I:<br>EEE 802.11a / n HT20<br>IEEE 802.11n HT40<br>UNII Band II:<br>IEEE 802.11a / n HT20<br>IEEE 802.11n HT40<br>UNII Band III:<br>IEEE 802.11a / n HT20<br>IEEE 802.11n HT40<br>UNII Band IV:<br>IEEE 802.11a / n HT20<br>IEEE 802.11n HT40 |

<table>
<tr><td>Modulation</td><td>:</td><td colspan="2">OFDM(QPSK, BPSK, 16-QAM, 64-QAM,256-QAM)</td></tr>
<tr><td>Transmit Data Rate</td><td>:</td><td colspan="2">IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps;<br>IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4 Mbps;<br>IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps;</td></tr>
<tr><td>Channels Spacing</td><td>:</td><td colspan="2">IEEE 802.11a: 20MHz;<br>IEEE 802.11n HT20: 20MHz;<br>IEEE 802.11n HT40: 40MHz;</td></tr>
<tr><td rowspan="3">Antenna</td><td rowspan="3">:</td><td colspan="2">Internal antenna</td></tr>
<tr><td>Frequency Range</td><td>Antenna</td></tr>
<tr><td>5150~5875 MHz</td><td>1.27 dBi</td></tr>
<tr><td></td><td></td><td colspan="2">Note: Bluetooth uses Antenna<br>11a,b,g,n, uses Antenna</td></tr>
<tr><td>Transmit Power</td><td>:</td><td colspan="2">UNII Band I:<br>IEEE 802.11a: 4 Channels;<br>IEEE 802.11n HT20: 4 Channels;<br>IEEE 802.11n HT40: 2 Channels.<br>UNII Band II:<br>IEEE 802.11a: 4 Channels;<br>IEEE 802.11n HT20: 4 Channels;<br>IEEE 802.11n HT40: 2 Channels.<br>UNII Band III:<br>IEEE 802.11a: 8 Channels;<br>IEEE 802.11n HT20: 8 Channels;<br>IEEE 802.11n HT40: 3 Channels.<br>UNII Band IV:<br>IEEE 802.11a: 5 Channels;<br>IEEE 802.11n HT20: 5 Channels;<br>IEEE 802.11n HT40: 2 Channels.</td></tr>
<tr><td>Sample Type</td><td>:</td><td colspan="2">Prototype production</td></tr>
</table>

# 2. SUMMARY OF TEST

## 2.1. Test methodology.

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 Radiated testing was performed at an antenna to EUT distance 3 meters. The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.407 and FCC 14-30. Radio testing was performed according to KDB DA 02-2138、KDB 789033 D02、KDB 905462 D06.

## 2.2. Summary of test result

| Description of Test Item | Standard | Results |
|---|---|---|
| 99%, 6dB and 26dB Bandwidth | FCC Part 15: 407(a)<br>FCC Part 15: 407(e) | PASS |
| Maximum Conducted Output Power | FCC Part 15: 407(a) | PASS |
| Peak Power Spectral Density | FCC Part 15: 407(a) | PASS |
| Radiated Spurious Emissions | FCC Part 15: 407(b) | PASS |
| Conducted Unwanted Emissions | FCC Part 15: 407(b) | PASS |
| Band Edge Measurement | FCC Part 15: 407(b) | PASS |
| Frequency Stability | FCC Part 15: 407(g) | PASS |
| Power Line Conducted Emissions | FCC Part 15: 207<br>FCC Part 15: 407(b)(6) | PASS |
| Antenna requirement | FCC Part 15: 203<br>FCC Part 15: 407(a) | PASS |

## 2.3. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
Date of registration: November 13, 2017

Certificated by FCC, USA
Designation Number: CN1215
Test Firm Registration Number: 722932
Date of registration: November 21, 2017

Certificated by A2LA, USA
Registration No.: 4366.01
Date of registration: November 07, 2017

Certificated by Industry Canada
CAB identifier No.: CN0035
Date of registration: January 04, 2019

Certificated by VCCI, Japan
Registration No.: R-13663; C-14103
Date of registration: July 25, 2017
This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L2-64
Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

## 2.4. Measurement uncertainty for EST Technology Co., Ltd.

| Test Item | Uncertainty |
|---|---|
| Uncertainty for Conduction emission test | 2.54dB |
| Uncertainty for Radiation Emission test (30MHz-1GHz) | 3.62 |
| Uncertainty for Radiation Emission test (1GHz to 18GHz) | 4.86 |
| Uncertainty for spurious emissions test (18GHz to 40GHz) | 4.67 |
| Uncertainty for radio frequency | 7×10-8 |
| Uncertainty for conducted RF Power | 0.20dB |
| Uncertainty for Power density test | 0.26dB |
| Temperature | ±0.6℃ |
| Humidity | ±4.0 % |
| Volatage DC | ±1.0% |
| Volatage (AC, <10KHz) | ±1.5% |

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

## 2.5. Assistant equipment used for test

### 2.5.1. Router (Master)

| | | |
|---|---|---|
| Manufacturer | : | LINKSYS |
| M/N | : | WRT3200ACM |
| FCC ID | : | Q87-WRT3200ACM |
| IC | : | 3839A-WRT3200ACM |
| S/N | : | 1981060A621419 |
| MAC | : | 6038E0B87B20 |

### 2.5.2. Notebook

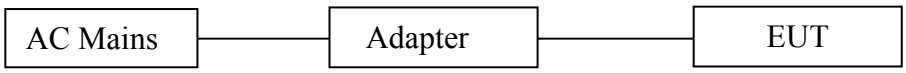
| | | |
|---|---|---|
| Manufacturer | : | DELL |
| M/N | : | Laititude E6420 |
| Adapter | : | M/N: DA90PM111 |

### 2.5.3. Adapter

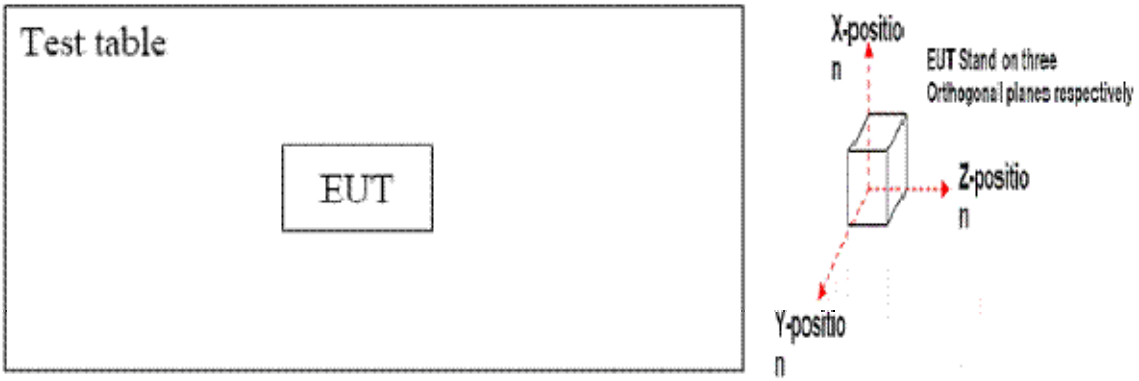
| | | |
|---|---|---|
| Manufacturer | : | onn |
| M/N | : | BSY01J3050200U U |
| Input | : | AC 100-240V, 50/60Hz, 0.3A |
| Output | : | DC 5.0V, 2.0A |

## 2.6. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was be set into TX test mode by software before test.




(EUT: 10.1" Android Tablet)




Note:We test X-axis, Y-axis, and Z-axis,. The Y-axis is the worst mode, so only theworst mode test data was included in the report.

## 2.7. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

| Band | Mode | Channel | Frequency (MHz) | Data rate (Mbps) |
|---|---|---|---|---|
| UNII Band I | IEEE 802.11a & n HT20 VHT20: 5180-5240MHz | Low | 5180 | 6 |
| | | Middle | 5200 | 6 |
| | | High | 5240 | 6 |
| | IEEE 802.11n HT40 : 5180-5240MHz | Low | 5190 | 13.5 |
| | | High | 5230 | 13.5 |
| | | | | |
| UNII Band II | IEEE 802.11a & n HT20: 5260-5320MHz | Low | 5260 | 6 |
| | | Middle | 5300 | 6 |
| | | High | 5320 | 6 |
| | IEEE 802.11n HT40: 5270-5310MHz | Low | 5270 | 13.5 |
| | | High | 5310 | 13.5 |
| | | | | |
| UNII Band III | IEEE 802.11a & n HT20: 5500-5700MHz | Low | 5500 | 6 |
| | | Middle | 5580 | 6 |
| | | High | 5700 | 6 |
| | IEEE 802.11n HT40: 5510-5670 | Low | 5510 | 13.5 |
| | | High | 5670 | 13.5 |
| | | | | |
| UNII Band IV | IEEE 802.11a & n HT20: 5745-5825MHz | Low | 5745 | 6 |
| | | Middle | 5785 | 6 |
| | | High | 5825 | 6 |
| | IEEE 802.11n HT40: 5755-5795MHz | Low | 5755 | 13.5 |
| | | High | 5795 | 13.5 |

## 2.8. Channel List

| Band | Mode | Channel | Frequency (MHz) |
|---|---|---|---|
| UNII Band I | IEEE 802.11a & n HT20: 5180-5240MHz | 36 | 5180 |
| | | 40 | 5200 |
| | | 44 | 5220 |
| | | 48 | 5240 |
| | IEEE 802.11n HT40: 5180-5240MHz | 38 | 5190 |
| | | 46 | 5230 |
| | | | |
| UNII Band II | IEEE 802.11a & n HT20: 5260-5320MHz | 52 | 5260 |
| | | 56 | 5280 |
| | | 60 | 5300 |
| | | 64 | 5320 |
| | IEEE 802.11n HT40: 5270-5310MHz | 54 | 5270 |
| | | 62 | 5310 |
| | | | |
| UNII Band III | IEEE 802.11a & n HT20: 5500-5700MHz | 100 | 5500 |
| | | 104 | 5520 |
| | | 108 | 5540 |
| | | 112 | 5560 |
| | | 116 | 5580 |
| | | 132 | 5660 |
| | | 136 | 5680 |
| | | 140 | 5700 |
| | IEEE 802.11n HT40: 5510-5670 | 102 | 5510 |
| | | 110 | 5550 |
| | | 134 | 5670 |
| | | | |
| UNII Band IV | IEEE 802.11a & n HT20: 5745-5825MHz | 149 | 5745 |
| | | 153 | 5765 |
| | | 157 | 5785 |
| | | 161 | 5805 |
| | | 165 | 5825 |
| | IEEE 802.11n HT40: 5755-5795MHz | 151 | 5755 |
| | | 159 | 5795 |

## 2.9. Test Equipment For EST Technology Co., Ltd.

### 2.9.1. For conducted emission test

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| EMI Test Receiver | Rohde & Schwarz | ESHS30 | 832354 | CEPREI | June 15,18 | 1 Year |
| Artificial Mains Network | Rohde & Schwarz | ENV216 | 101260 | CEPREI | June 15,18 | 1 Year |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 101100 | CEPREI | June 15,18 | 1 Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |

### 2.9.2. For radiated emission test(9 kHz-30MHz)

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101780 | CEPREI | June 15,18 | 1 Year |
| Active Loop Antenna | SCHWAREBECK | FMZB 1519B | 1519B-088 | N/A | Aug. 01,18 | 1 Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |

### 2.9.3. For radiated emissions test (30-1000MHz)

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101780 | CEPREI | June 15,18 | 1 Year |
| Bilog Antenna | Teseq | CBL 6111D | 27090 | CEPREI | June 15,18 | 1 Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |

### 2.9.4. For radiated emission test(above 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA9120D1002 | CEPREI | June 18,18 | 1 Year |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170242 | CEPREI | June 18,18 | 1Year |
| Signal Amplifier | SCHWARZBECK | BBV9718 | 9718-212 | CEPREI | June 18,18 | 1 Year |
| Spectrum Analyzer | Rohde &Schwarz | FSV | 103173 | CEPREI | June 15,18 | 1 Year |
| PSA Series Spertrum Analyzer | Agilent | E4447A | MY50180031 | CEPREI | June 15,18 | 1Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A | N/A |

2.9.5. For DFS and connect EUT antenna terminal test

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Body | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| TS 8997 | Rohde &Schwarz | / | / | / | / | / |
| Open Switch and Control Unit | Rohde &Schwarz | OSP-B157WB | 101309 | CEPREI | June 15,18 | 1Year |
| Signal and Spectrum Analyzer | Rohde &Schwarz | FSV | 103173 | CEPREI | June 15,18 | 1 Year |
| Signal Generator | Rohde &Schwarz | SMB100A | 108752 | CEPREI | June 15,18 | 1 Year |
| Vector Signal Generator | Rohde &Schwarz | SMBV100A | 260753 | CEPREI | June 15,18 | 1Year |
| Test Software | Rohde &Schwarz | WMS32 | V10.40.00 | N/A | N/A | N/A |
| Spectrum Analyzer | Agilent | E4408B | MY44211139 | CEPREI | June 15,18 | 1 Year |
| Temperature controller | DK | DK70A | 006562 | Tiansu | June 03,18 | 1 Year |
| AC Source | CHANGJIANG | 3KV | EST215-007 | N/A | N/A | N/A |

# 3. 26 DB BANDWIDTH

## 3.1. Limit

No Limit.

## 3.2. Test Procedure

a, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
b, Place the EUT on the table and set it in the transmitting mode.
c, Set the spectrum analyzer as RBW > 1%EBW.
d, Set the VBW > RBW.
e, Set the Span >26dB bandwidth.
f, Set the Trace mode = Max hold.
g, Set the Detector = Peak.
h, Set the Sweep = auto.
i, Mark the peak frequency and –26dB (upper and lower) frequency.
j, Repeat until all the rest channels were investigated.

## 3.3. Test Information

| | |
|---|---|
| EUT: 10.1" Android Tablet | |
| M/N: ONA19TB003 | |
| Test date: 2018-12-28 | Test site: RF sit Tested by: Seven |

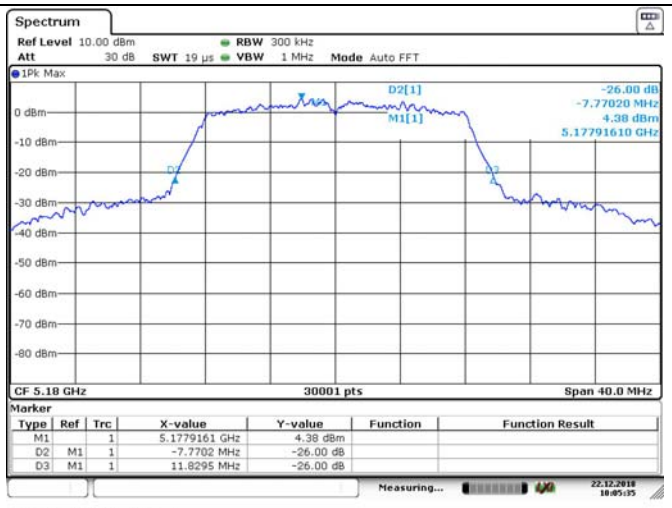
## 3.4. Test Result

| Band | Mode | Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---|---|---|---|---|
| UNII Band I | IEEE 802.11a | Low | 5180 | 19.60 |
| | | Middle | 5200 | 19.86 |
| | | High | 5240 | 19.67 |
| | IEEE 802.11n HT20 | Low | 5180 | 19.89 |
| | | Middle | 5200 | 19.93 |
| | | High | 5240 | 19.92 |
| | IEEE 802.11n HT40 | Low | 5190 | 40.13 |
| | | High | 5230 | 40.12 |
| Conclusion: Pass | | | | |
| UNII Band II | IEEE 802.11a | Low | 5260 | 19.96 |
| | | Middle | 5300 | 19.88 |
| | | High | 5320 | 19.88 |
| | IEEE 802.11n HT20 | Low | 5260 | 19.93 |
| | | Middle | 5300 | 19.93 |
| | | High | 5320 | 19.92 |
| | IEEE 802.11n HT40 | Low | 5270 | 40.14 |
| | | High | 5310 | 40.15 |
| Conclusion: Pass | | | | |

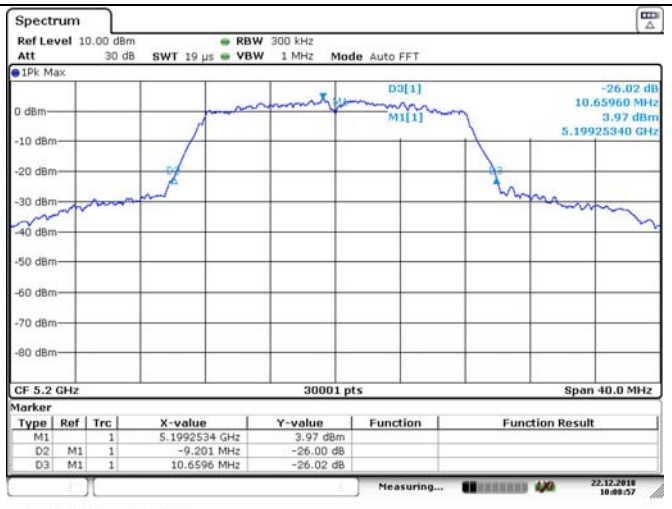
| Band | Mode | Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---|---|---|---|---|
| UNII Band III | IEEE 802.11a | Low | 5500 | 19.73 |
| | | Middle | 5580 | 19.86 |
| | | High | 5700 | 19.64 |
| | IEEE 802.11n HT20 | Low | 5500 | 19.92 |
| | | Middle | 5580 | 19.94 |
| | | High | 5700 | 20.00 |
| | IEEE 802.11n HT40 | Low | 5510 | 40.40 |
| | | High | 5670 | 40.60 |
| Conclusion: Pass | | | | |
| UNII Band IV | IEEE 802.11a | Low | 5745 | 19.82 |
| | | Middle | 5785 | 19.87 |
| | | High | 5825 | 19.99 |
| | IEEE 802.11n HT20 | Low | 5745 | 19.94 |
| | | Middle | 5785 | 19.94 |
| | | High | 5825 | 19.95 |
| | IEEE 802.11n HT40 | Low | 5755 | 40.24 |
| | | High | 5795 | 40.19 |
| Conclusion: Pass | | | | |

## 3.5. Test Data

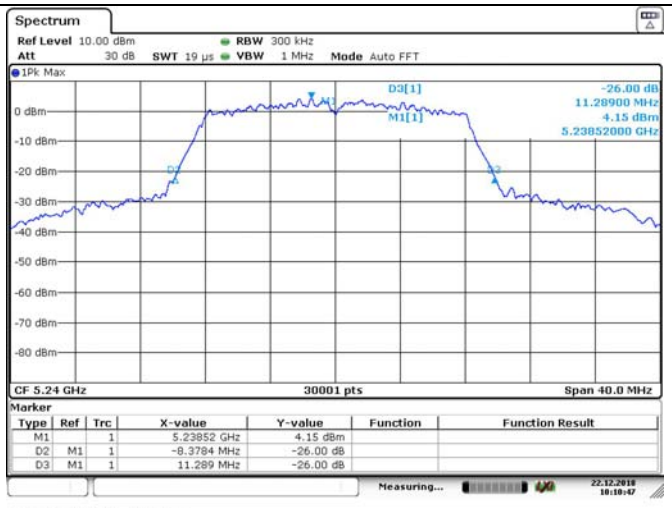
UNII Band I IEEE 802.11a 5180MHz



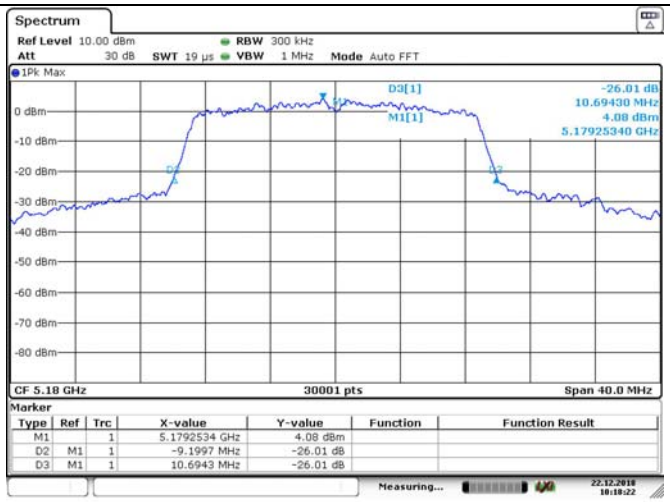

UNII Band I IEEE 802.11a 5200MHz



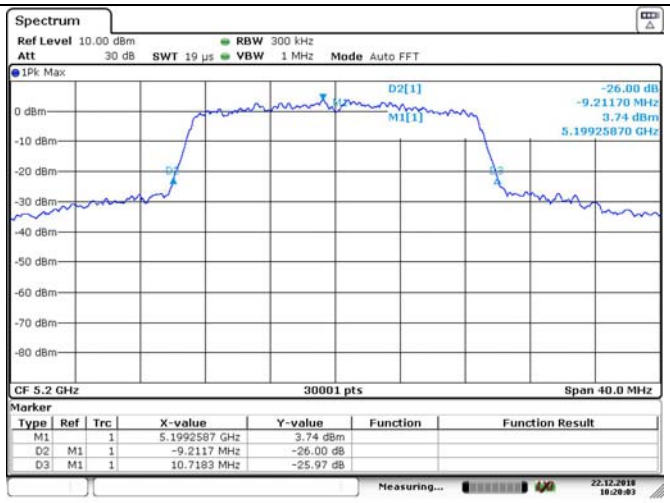

UNII Band I IEEE 802.11a 5240MHz



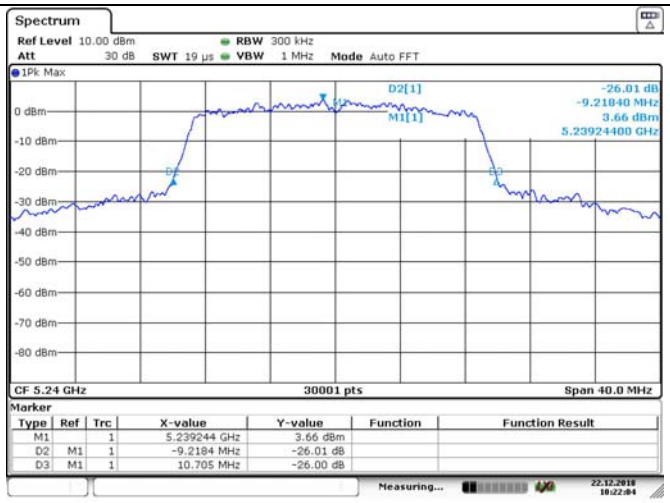
UNII Band I IEEE 802.11n HT20 5180MHz



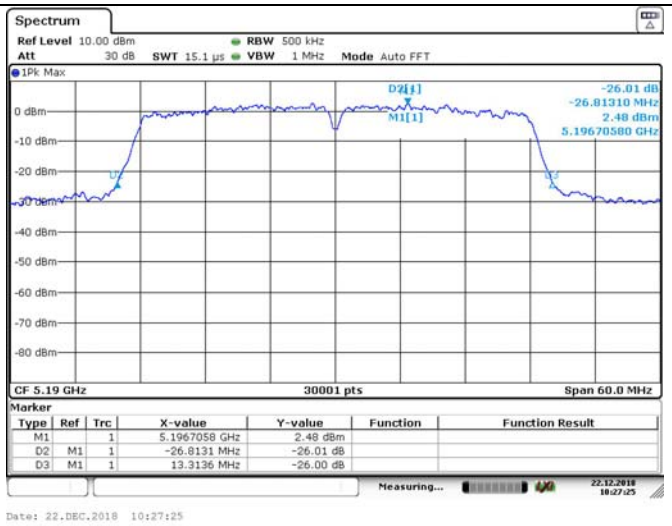

UNII Band I IEEE 802.11n HT20 5200MHz



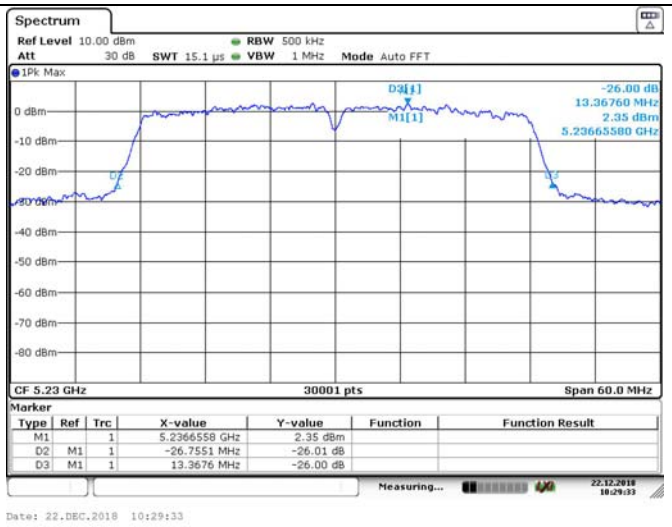

UNII Band I IEEE 802.11n HT20 5240MHz



UNII Band I IEEE 802.11n HT40 5190MHz




UNII Band I IEEE 802.11n HT40 5230MHz

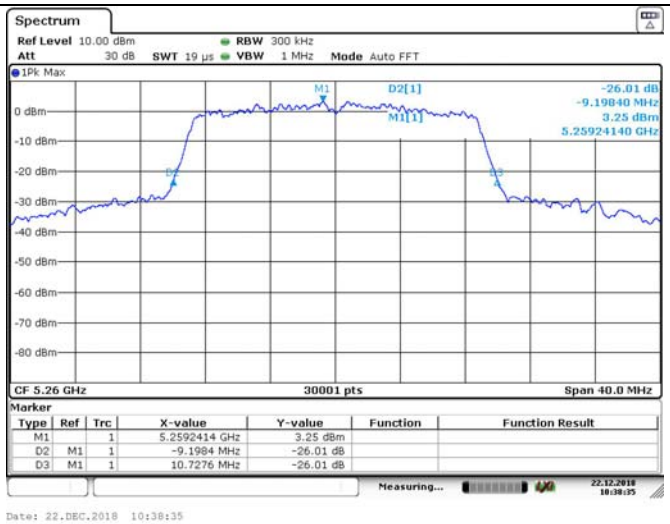


UNII Band II IEEE 802.11a 5260MHz

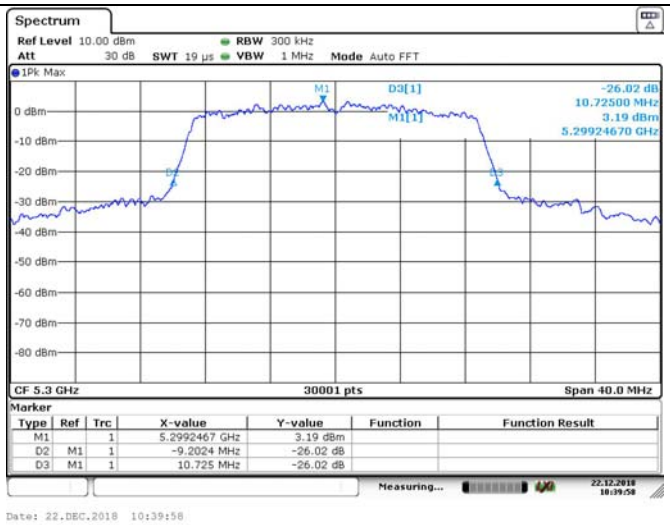

UNII Band II IEEE 802.11a 5300MHz


UNII Band II IEEE 802.11a 5320MHz

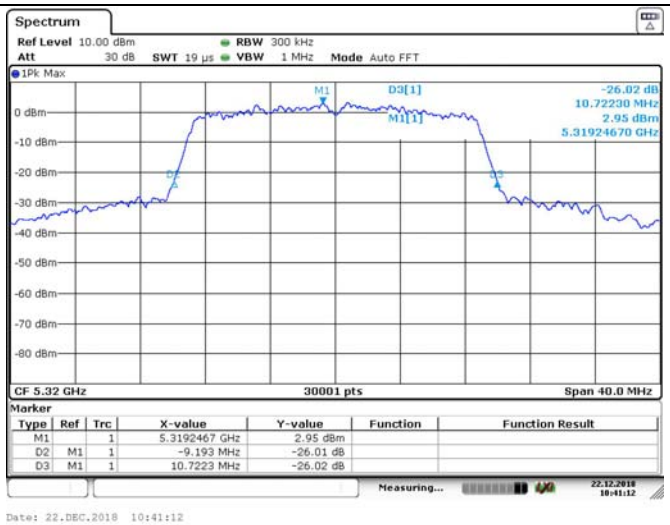
UNII Band II IEEE 802.11n HT20 5260MHz

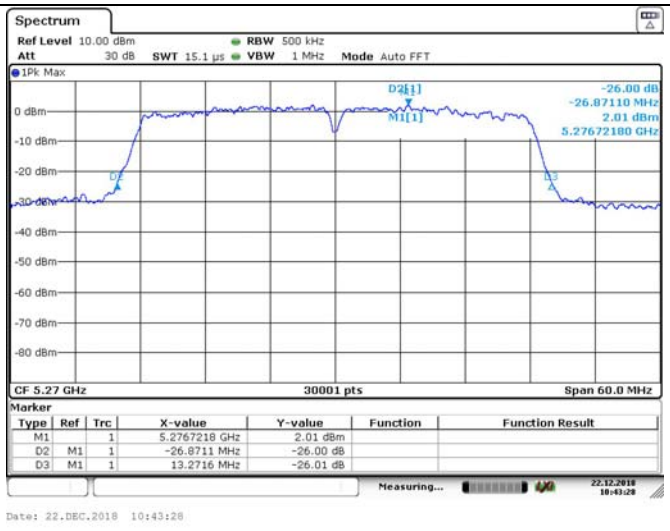



UNII Band II IEEE 802.11n HT20 5300MHz

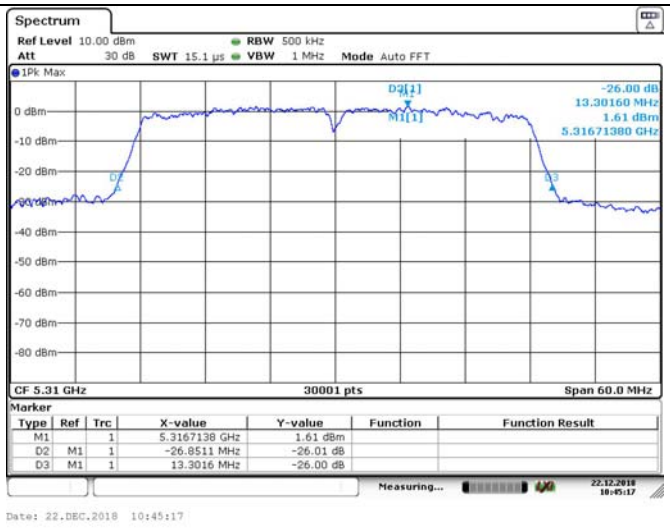



UNII Band II IEEE 802.11n HT20 5320MHz

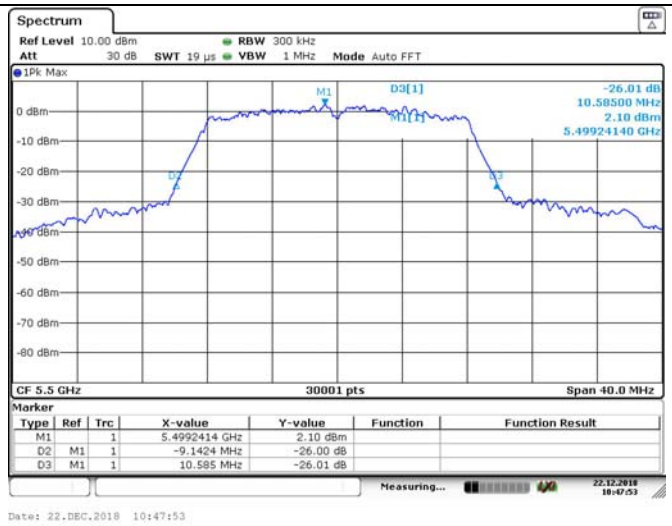


| UNII Band II IEEE 802.11n HT40 5270MHz |
|---|
|  |

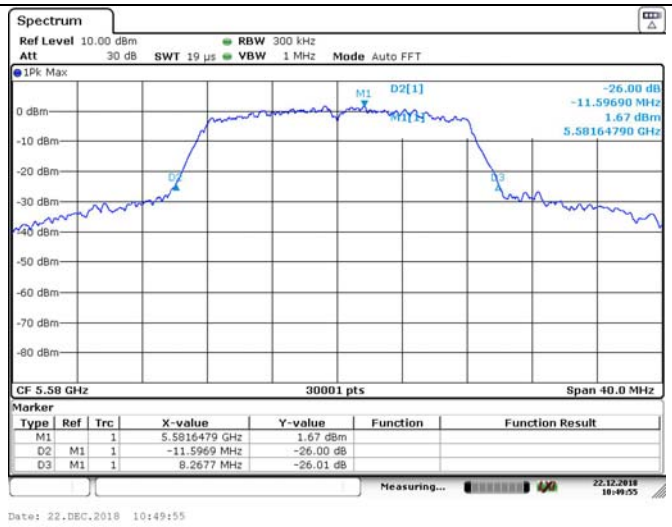


| UNII Band II IEEE 802.11n HT40 5310MHz |
|---|
|  |

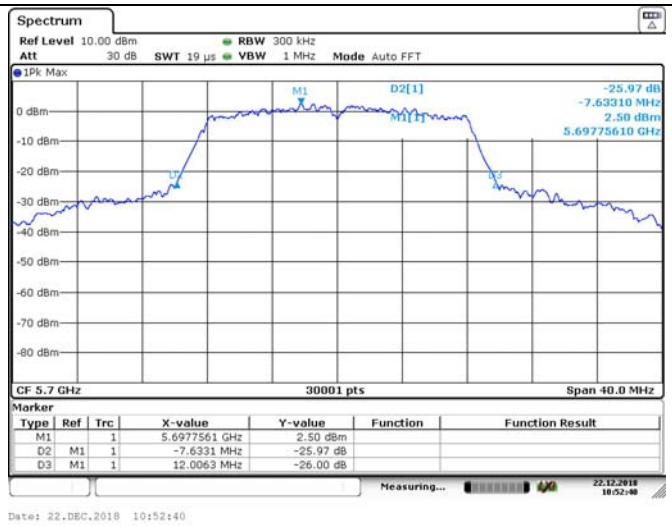
UNII Band III IEEE 802.11a 5500MHz



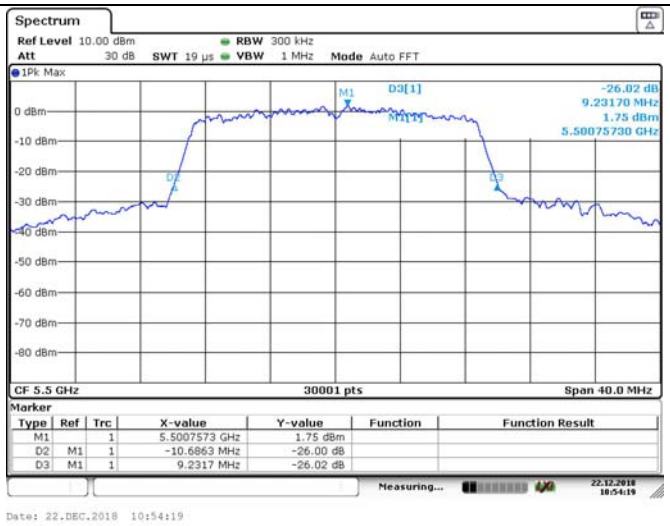

UNII Band III IEEE 802.11a 5580MHz



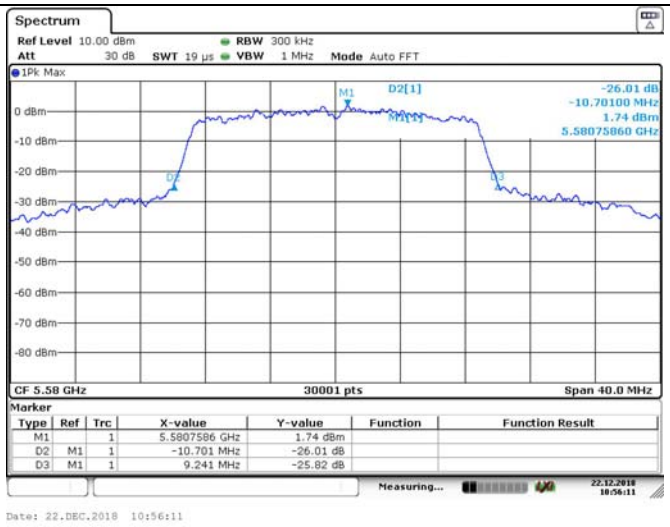

UNII Band III IEEE 802.11a 5700MHz



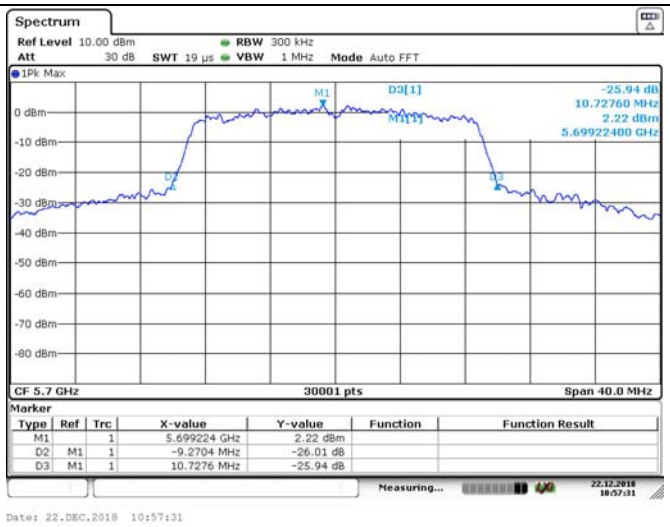
UNII Band III IEEE 802.11n HT20 5500MHz



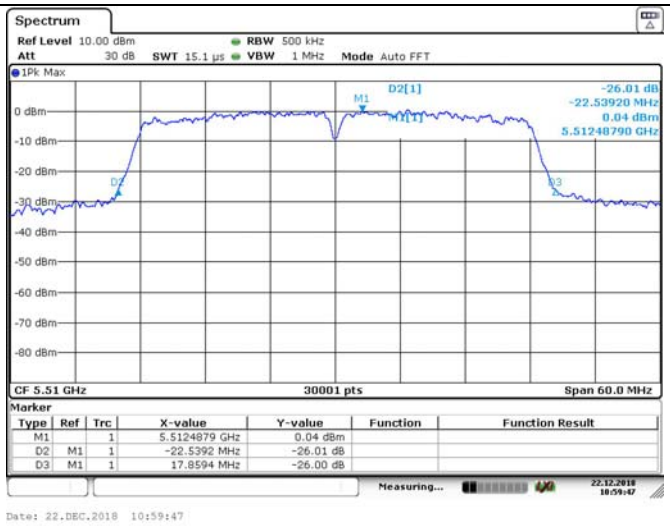

UNII Band III IEEE 802.11n HT20 5580MHz



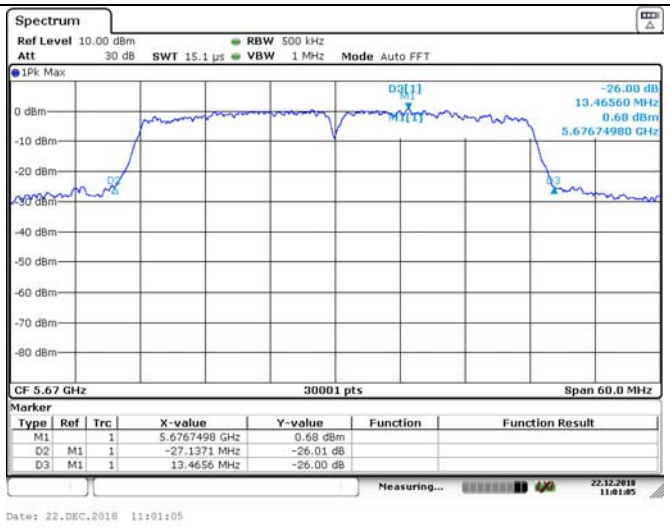

UNII Band III IEEE 802.11n HT20 5700MHz



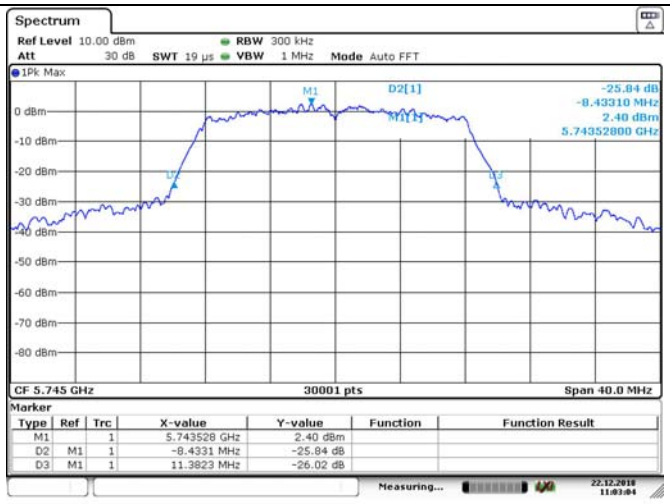
UNII Band III IEEE 802.11n HT40 5510MHz



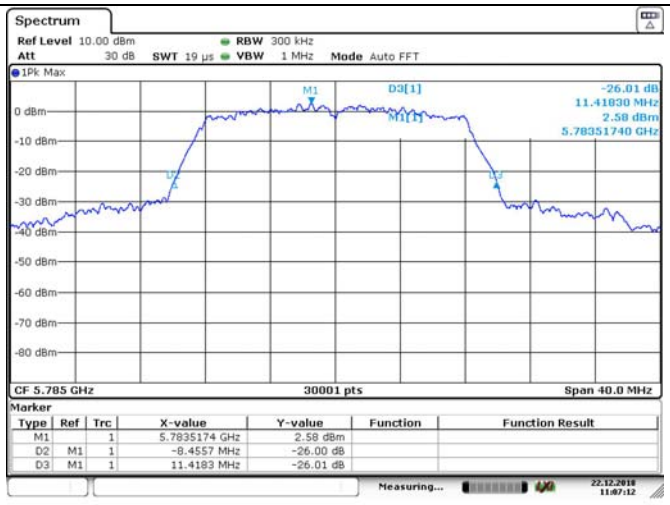

UNII Band III IEEE 802.11n HT40 5670MHz



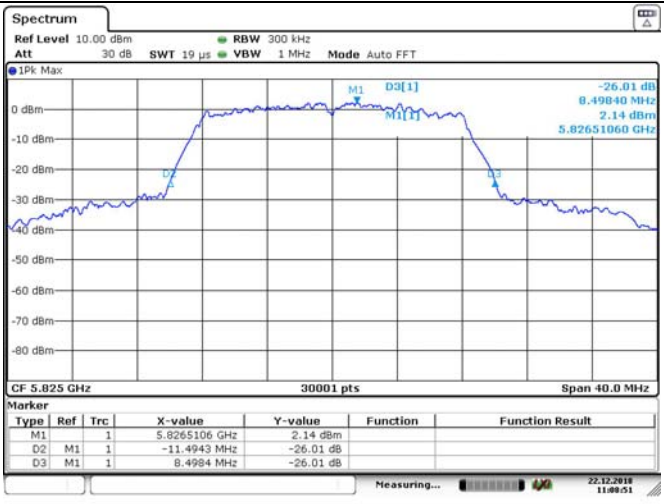
UNII Band IV IEEE 802.11a 5745MHz



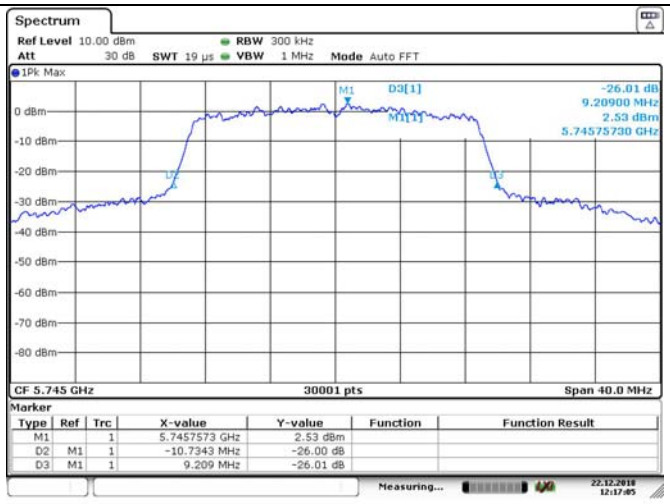

UNII Band IV IEEE 802.11a 5785MHz



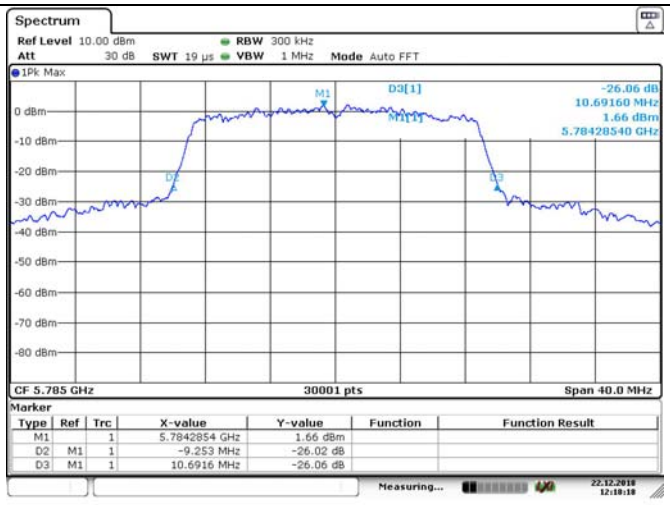

UNII Band IV IEEE 802.11a 5825MHz



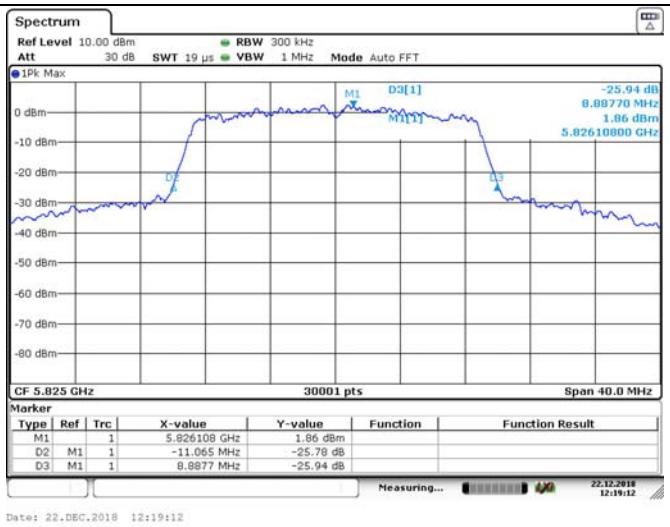
UNII Band IV IEEE 802.11n HT20 5745MHz



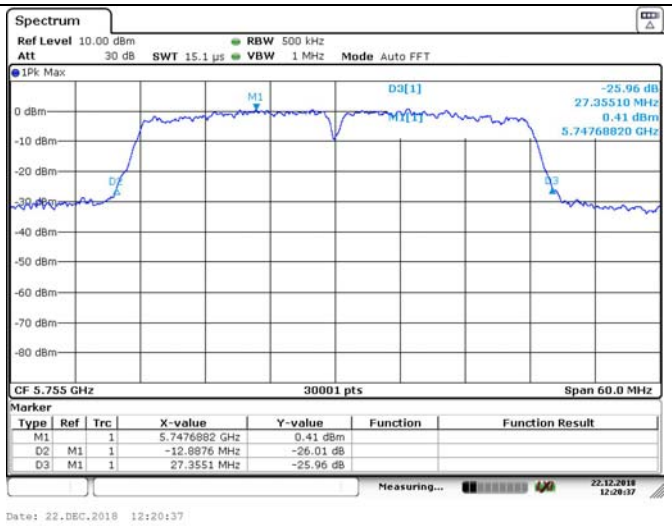

UNII Band IV IEEE 802.11n HT20 5785MHz



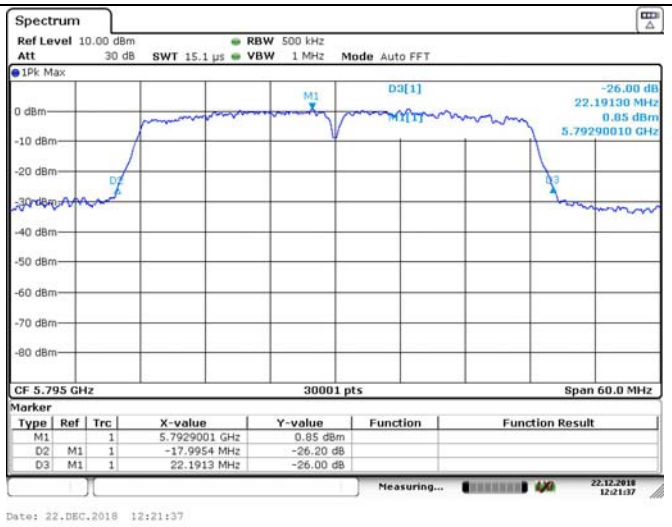

UNII Band IV IEEE 802.11n HT20 5825MHz



UNII Band IV IEEE 802.11n HT40 5755MHz




UNII Band IV IEEE 802.11n HT40 5795MHz



# 4. 6 DB BANDWIDTH

## 4.1. Limit

According to §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

## 4.2. Test Procedure

a, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
b, Place the EUT on the table and set it in the transmitting mode.
c, Set resolution bandwidth (RBW) = 100 kHz
d, Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
e, Set the Trace mode = Max hold.
f, Set the Detector = Peak.
g, Set the Sweep = Auto.
h, Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 4.3. Test Information

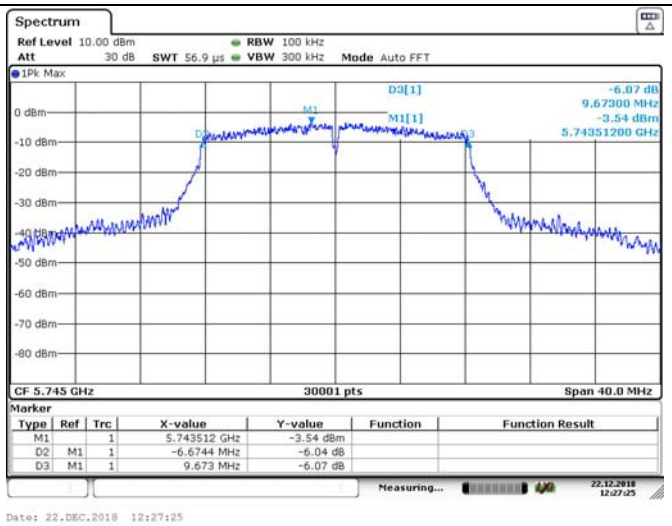
| | | |
|---|---|---|
| EUT: 10.1" Android Tablet | | |
| M/N: ONA19TB003 | | |
| Test date: 2018-12-28 | Test site: RF sit | Tested by: Seven |

## 4.4. Test Result

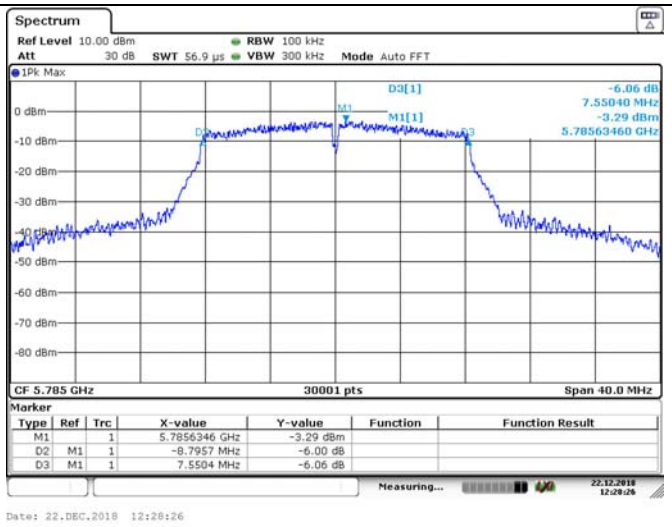
| Band | Mode | Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (kHz) |
|---|---|---|---|---|---|
| UNII Band IV | IEEE 802.11a | Low | 5745 | 16.35 | 500 |
| | | Middle | 5785 | 16.35 | 500 |
| | | High | 5825 | 16.34 | 500 |
| | IEEE 802.11n HT20 | Low | 5745 | 17.59 | 500 |
| | | Middle | 5785 | 17.59 | 500 |
| | | High | 5825 | 17.58 | 500 |
| | IEEE 802.11n HT40 | Low | 5755 | 36.25 | 500 |
| | | High | 5795 | 36.33 | 500 |

## 4.5. Test Data

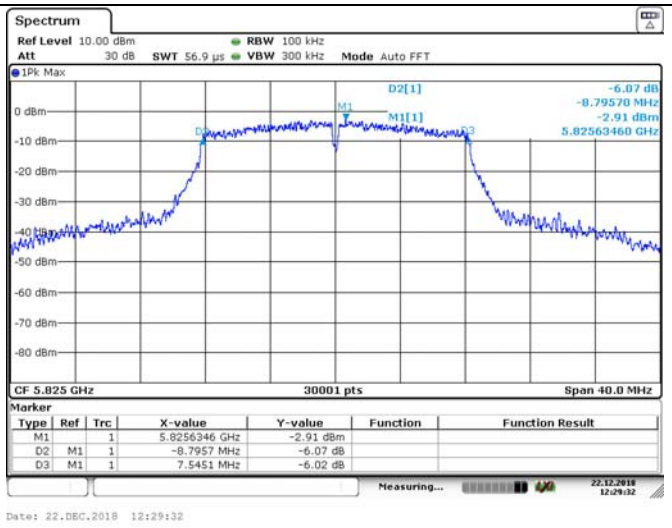
UNII Band IV IEEE 802.11a 5745MHz



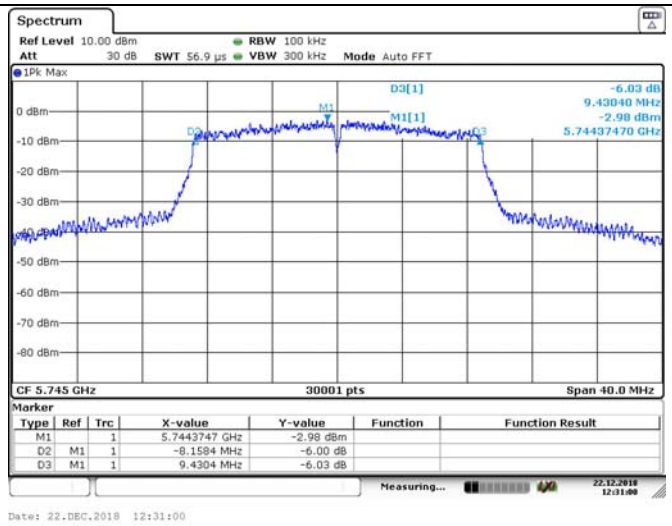

UNII Band IV IEEE 802.11a 5785MHz



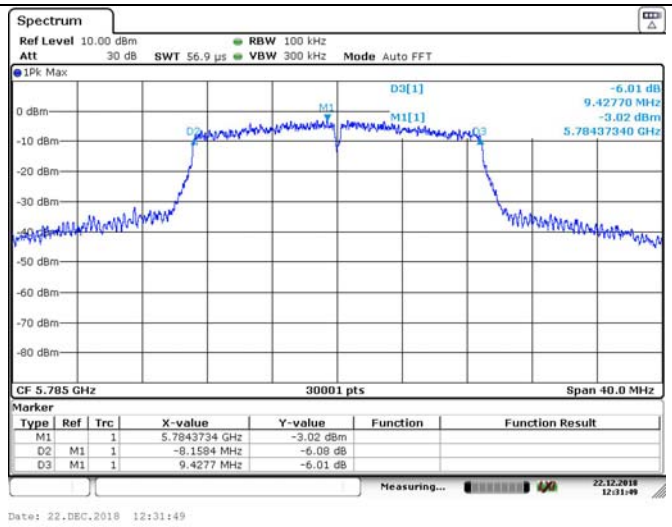

UNII Band IV IEEE 802.11a 5825MHz



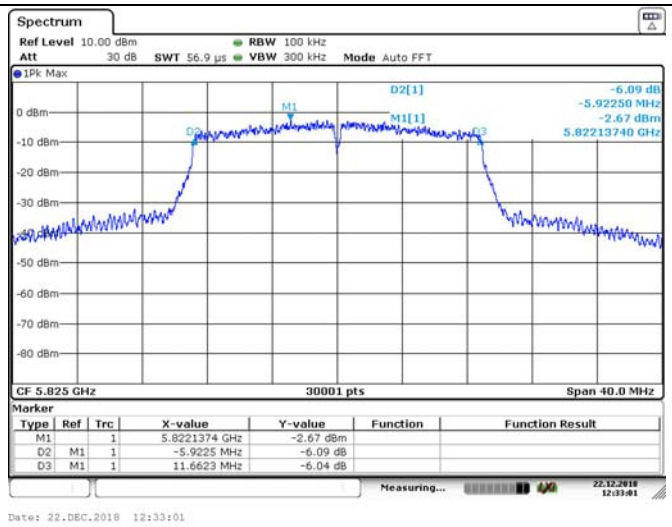
UNII Band IV IEEE 802.11n HT20 5745MHz



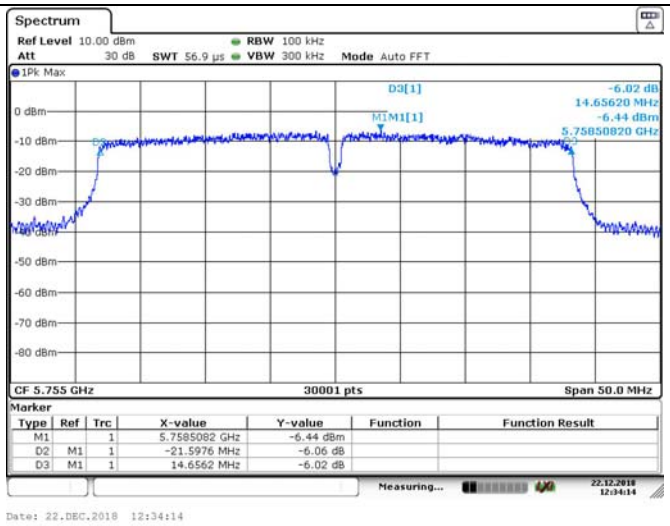

UNII Band IV IEEE 802.11n HT20 5785MHz



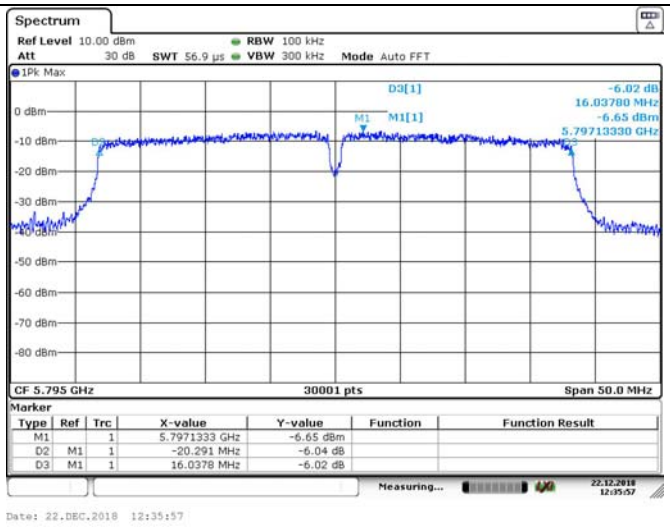

UNII Band IV IEEE 802.11n HT20 5825MHz



UNII Band IV IEEE 802.11n HT40 5755MHz




UNII Band IV IEEE 802.11n HT40 5795MHz



# 5. OUTPUT POWER

## 5.1. Limit

According to §15.407(a)& FCC R&O FCC 14 - 30,

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral

density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

Specified Limit of the Output Power

| Band | Mode | Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 11 + 10*Log(B) (dBm) | Maximum Conducted Output Power Limit(dBm) |
|---|---|---|---|---|---|---|
| UNII Band I | IEEE 802.11a | Low | 5180 | 19.60 | 23.92 | 23.92 |
| | | Middle | 5200 | 19.86 | 23.98 | 23.98 |
| | | High | 5240 | 19.67 | 23.94 | 23.94 |
| | IEEE 802.11n HT20 | Low | 5180 | 19.89 | 23.99 | 23.99 |
| | | Middle | 5200 | 19.93 | 24.00 | 24.00 |
| | | High | 5240 | 19.92 | 24.00 | 24.00 |
| | IEEE 802.11n HT40 | Low | 5190 | 40.13 | 27.03 | 24.00 |
| | | High | 5230 | 40.12 | 27.03 | 24.00 |
| | | | | | | |
| UNII Band II | IEEE 802.11a | Low | 5260 | 19.96 | 24.00 | 24.00 |
| | | Middle | 5300 | 19.88 | 23.99 | 23.99 |
| | | High | 5320 | 19.88 | 23.98 | 23.98 |
| | IEEE 802.11n HT20 | Low | 5260 | 19.93 | 23.99 | 23.99 |
| | | Middle | 5300 | 19.93 | 23.99 | 23.99 |
| | | High | 5320 | 19.92 | 23.99 | 23.99 |
| | IEEE 802.11n HT40 | Low | 5270 | 40.14 | 27.04 | 24.00 |
| | | High | 5310 | 40.15 | 27.04 | 24.00 |
| | | | | | | |
| UNII Band III | IEEE 802.11a | Low | 5500 | 19.73 | 23.95 | 23.95 |
| | | Middle | 5580 | 19.86 | 23.98 | 23.98 |
| | | High | 5700 | 19.64 | 23.93 | 23.93 |
| | IEEE 802.11n HT20 | Low | 5500 | 19.92 | 23.99 | 23.99 |
| | | Middle | 5580 | 19.94 | 24.00 | 24.00 |
| | | High | 5700 | 20.00 | 24.01 | 24.00 |
| | IEEE 802.11n HT40 | Low | 5510 | 40.40 | 27.06 | 24.00 |
| | | High | 5670 | 40.60 | 27.09 | 24.00 |

## 5.2. Test Procedure

The transmitter output (antenna port) was connected to the OSP-B157WB. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.

## 5.3. Test Information

| | |
|---|---|
| EUT: 10.1" Android Tablet | |
| M/N: ONA19TB003 | |
| Test date: 2018-12-29 | Test site: RF sit Tested by: Seven |

## 5.4. Test Result

| Band | Mode | Channel | Frequency (MHz) | Output Power | | Maximum Conducted Output Power Limit(dBm) |
|---|---|---|---|---|---|---|
| | | | | mW | dBm | |
| UNII Band I | IEEE 802.11a | Low | 5180 | 26.27 | 14.195 | 23.92 |
| | | Middle | 5200 | 26.96 | 14.308 | 23.98 |
| | | High | 5240 | 23.78 | 13.762 | 23.94 |
| | IEEE 802.11n HT20 | Low | 5180 | 22.08 | 13.440 | 23.99 |
| | | Middle | 5200 | 24.94 | 13.969 | 24.00 |
| | | High | 5240 | 23.13 | 13.642 | 24.00 |
| | IEEE 802.11n HT40 | Low | 5190 | 25.30 | 14.031 | 24.00 |
| | | High | 5230 | 27.25 | 14.354 | 24.00 |
| Conclusion: Pass | | | | | | |
| UNII Band II | IEEE 802.11a | Low | 5260 | 20.09 | 13.029 | 24.00 |
| | | Middle | 5300 | 24.87 | 13.957 | 23.99 |
| | | High | 5320 | 23.04 | 13.624 | 23.98 |
| | IEEE 802.11n HT20 | Low | 5260 | 20.24 | 13.063 | 23.99 |
| | | Middle | 5300 | 21.64 | 13.352 | 23.99 |
| | | High | 5320 | 23.03 | 13.622 | 23.99 |
| | IEEE 802.11n HT40 | Low | 5270 | 20.37 | 13.090 | 24.00 |
| | | High | 5310 | 25.30 | 14.032 | 24.00 |
| Conclusion: Pass | | | | | | |

| Band | Mode | Channel | Frequency (MHz) | Output Power | | Maximum Conducted Output Power Limit(dBm) |
|---|---|---|---|---|---|---|
| | | | | mW | dBm | |
| UNII Band III | IEEE 802.11a | Low | 5500 | 14.90 | 11.732 | 23.95 |
| | | Middle | 5580 | 13.85 | 11.415 | 23.98 |
| | | High | 5700 | 14.13 | 11.500 | 23.93 |
| | IEEE 802.11n HT20 | Low | 5500 | 14.88 | 11.725 | 23.99 |
| | | Middle | 5580 | 12.46 | 10.956 | 24.00 |
| | | High | 5700 | 13.60 | 11.336 | 24.00 |
| | IEEE 802.11n HT40 | Low | 5510 | 17.29 | 12.377 | 24.00 |
| | | High | 5670 | 15.10 | 11.790 | 24.00 |
| Conclusion: Pass | | | | | | |
| UNII Band IV | IEEE 802.11a | Low | 5745 | 19.13 | 12.817 | 30.00 |
| | | Middle | 5785 | 17.99 | 12.551 | 30.00 |
| | | High | 5825 | 21.34 | 13.291 | 30.00 |
| | IEEE 802.11n HT20 | Low | 5745 | 18.67 | 12.711 | 30.00 |
| | | Middle | 5785 | 15.42 | 11.882 | 30.00 |
| | | High | 5825 | 19.82 | 12.971 | 30.00 |
| | IEEE 802.11n HT40 | Low | 5755 | 21.79 | 13.383 | 30.00 |
| | | High | 5795 | 20.11 | 13.034 | 30.00 |
| Conclusion: Pass | | | | | | |

# 6. PEAK POWER SPECTRAL DENSITY

## 6.1. Limit

According to §15.407(a) & FCC R&O FCC 14-30

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

## 6.2. Test Procedure

a, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
b, Place the EUT on the table and set it in the transmitting mode.
c, For devices operating in the bands 5.15-5.25 GHz,Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span > 26dB bandwidth, Sweep=1ms
d, For devices operating in the bands 5.725-5.85 GHz,Set the spectrum analyzer as RBW = 500kHz, VBW = 1.5 MHz, Span > 26dB bandwidth, Sweep=1ms
e, Record the max. reading.
f, Repeat the above procedure until the measurements for all frequencies are completed

## 6.3. Test Information

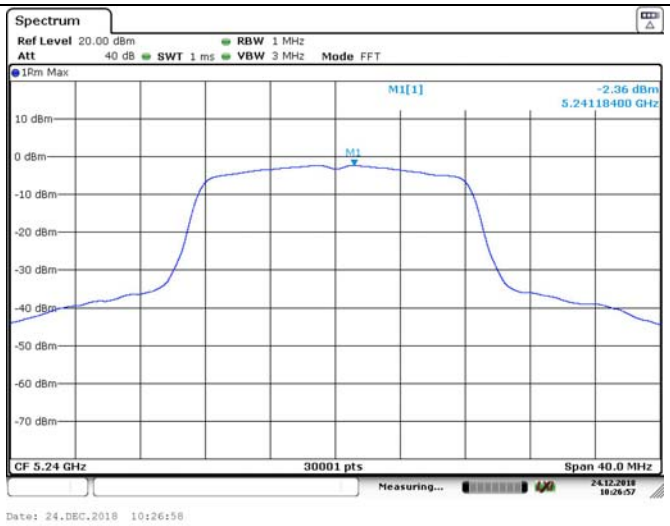
| | |
|---|---|
| EUT:10.1" Android Tablet | |
| M/N: ONA19TB003 | |
| Test date: 2018-12-29 | Test site: RF sit Tested by: Seven |

## 6.4. Test Result

| Band | Mode | Channel | Frequency (MHz) | Peak Power Spectral Density (dBm) | Limit |
|---|---|---|---|---|---|
| | | | | Ant | |
| UNII Band I | IEEE 802.11a | Low | 5180 | -1.92 | 11.00 dBm/MHz |
| | | Middle | 5200 | -2.02 | |
| | | High | 5240 | -2.36 | |
| | IEEE 802.11n HT20 | Low | 5180 | -2.05 | |
| | | Middle | 5200 | -2.22 | |
| | | High | 5240 | -2.51 | |
| | IEEE 802.11n HT40 | Low | 5190 | -5.55 | |
| | | High | 5230 | -5.96 | |
| Conclusion: Pass | | | | | |
| UNII Band II | IEEE 802.11a | Low | 5260 | -2.54 | 11.00 dBm/MHz |
| | | Middle | 5300 | -2.68 | |
| | | High | 5320 | -2.78 | |
| | IEEE 802.11n HT20 | Low | 5260 | -2.62 | |
| | | Middle | 5300 | -2.87 | |
| | | High | 5320 | -2.91 | |
| | IEEE 802.11n HT40 | Low | 5270 | -6.18 | |
| | | High | 5310 | -6.22 | |
| Conclusion: Pass | | | | | |

| Band | Mode | Channel | Frequency (MHz) | Peak Power Spectral Density (dBm) | Limit |
|---|---|---|---|---|---|
| | | | | Ant | |
| UNII Band III | IEEE 802.11a | Low | 5500 | -2.60 | 11.00 dBm/MHz |
| | | Middle | 5580 | -2.77 | |
| | | High | 5700 | -2.03 | |
| | IEEE 802.11n HT20 | Low | 5500 | -2.84 | |
| | | Middle | 5580 | -2.90 | |
| | | High | 5700 | -2.08 | |
| | IEEE 802.11n HT40 | Low | 5510 | -6.52 | |
| | | High | 5670 | -5.45 | |
| Conclusion: Pass | | | | | |
| UNII Band IV | IEEE 802.11a | Low | 5745 | -1.70 | 30.00 dBm/500kHz |
| | | Middle | 5785 | -1.42 | |
| | | High | 5825 | -0.86 | |
| | IEEE 802.11n HT20 | Low | 5745 | -1.69 | |
| | | Middle | 5785 | -1.27 | |
| | | High | 5825 | -0.81 | |
| | IEEE 802.11n HT40 | Low | 5755 | -1.97 | |
| | | High | 5795 | -2.18 | |
| Conclusion: Pass | | | | | |

## 6.5. Test Data

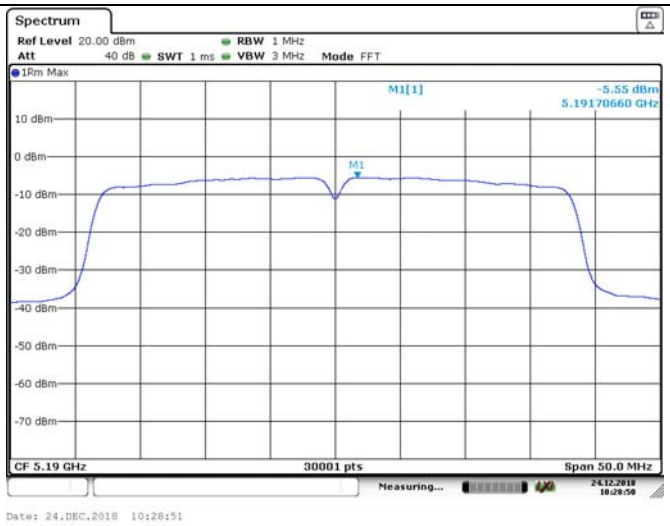
| UNII Band I IEEE 802.11a 5180MHz |
| --- |
|  |
| UNII Band I IEEE 802.11a 5200MHz |
|  |
| UNII Band I IEEE 802.11a 5240MHz |
|  |

UNII Band I IEEE 802.11n HT20 5180MHz

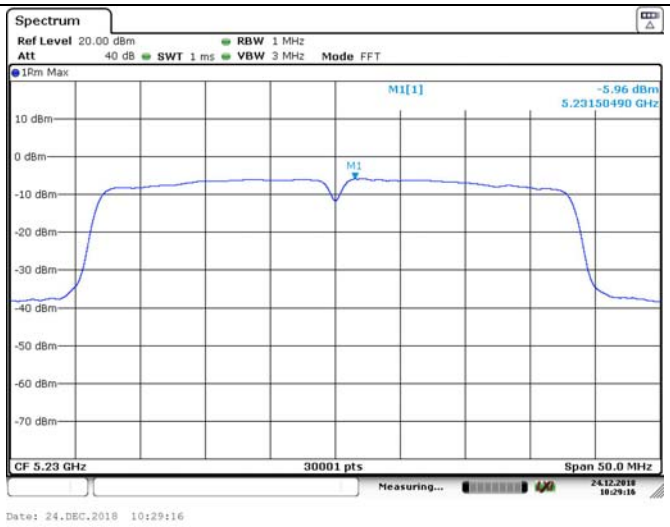

UNII Band I IEEE 802.11n HT20 5200MHz


UNII Band I IEEE 802.11n HT20 5240MHz

UNII Band I IEEE 802.11n HT40 5190MHz




UNII Band I IEEE 802.11n HT40 5230MHz



UNII Band II IEEE 802.11a 5260MHz

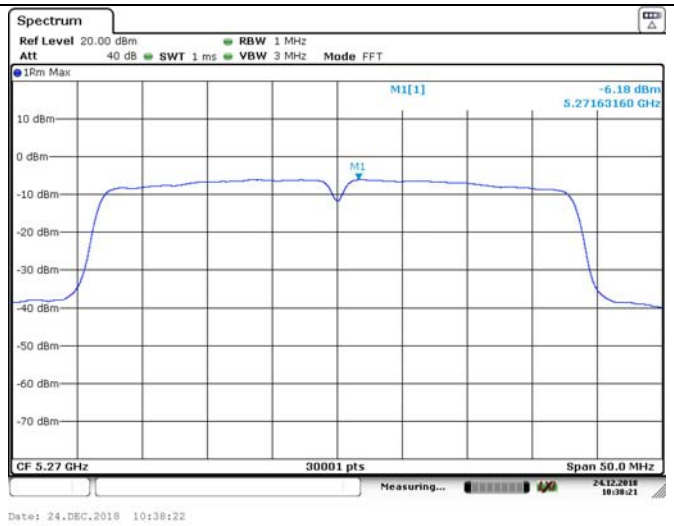
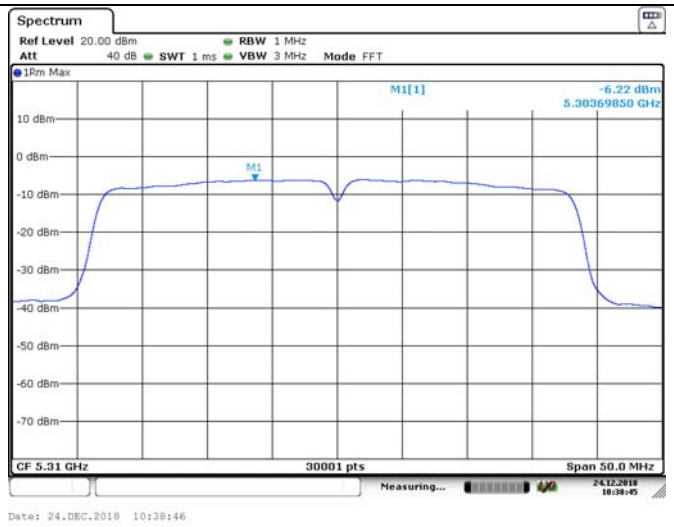

UNII Band II IEEE 802.11a 5300MHz

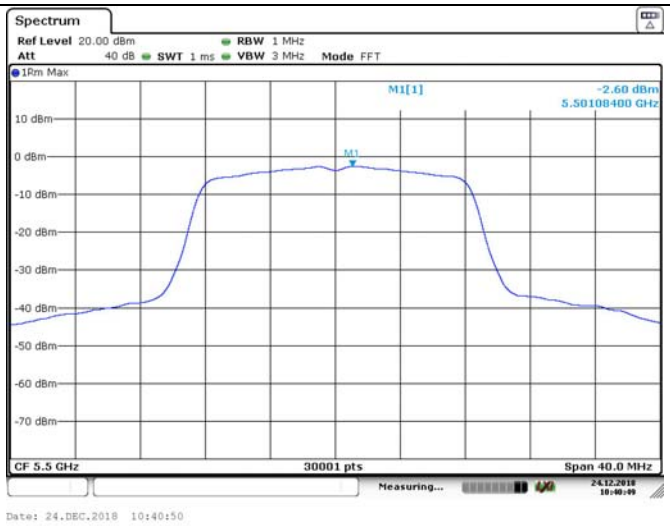

UNII Band II IEEE 802.11a 5320MHz

UNII Band II IEEE 802.11n HT20 5260MHz

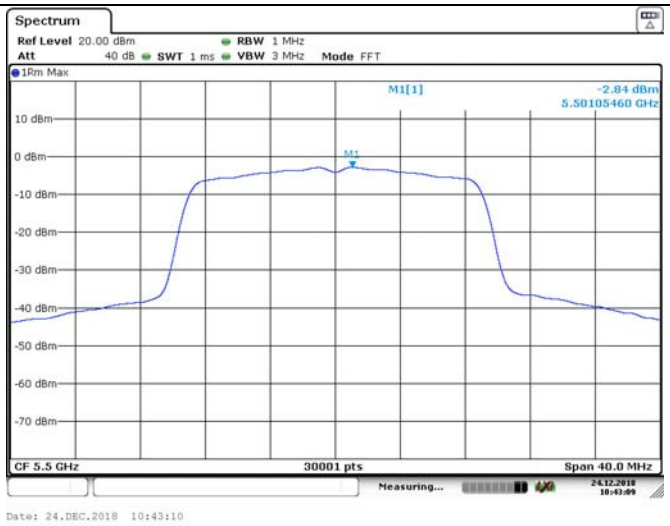

UNII Band II IEEE 802.11n HT20 5300MHz


UNII Band II IEEE 802.11n HT20 5320MHz

| UNII Band II IEEE 802.11n HT40 5270MHz |
| --- |
|  |
| UNII Band II IEEE 802.11n HT40 5310MHz |
|  |

| UNII Band III IEEE 802.11a 5500MHz |
| --- |
|  |
| UNII Band III IEEE 802.11a 5580MHz |
|  |
| UNII Band III IEEE 802.11a 5700MHz |
|  |

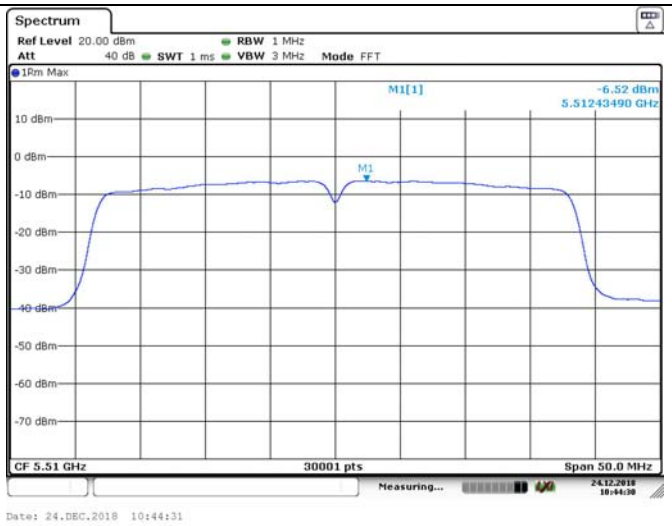
UNII Band III IEEE 802.11n HT20 5500MHz



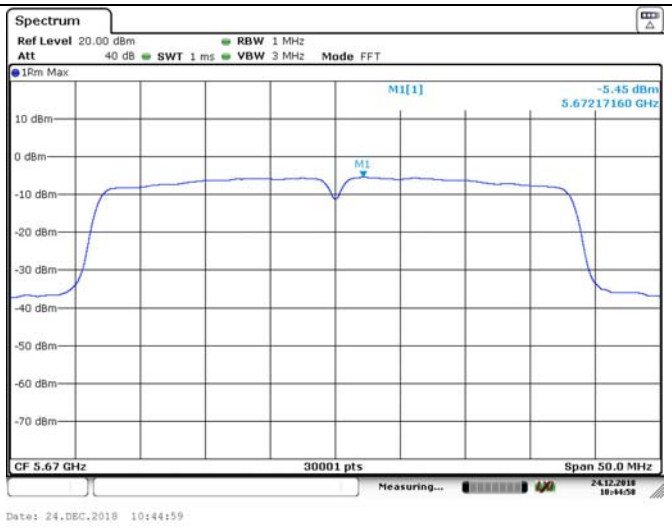

UNII Band III IEEE 802.11n HT20 5580MHz


UNII Band III IEEE 802.11n HT20 5700MHz

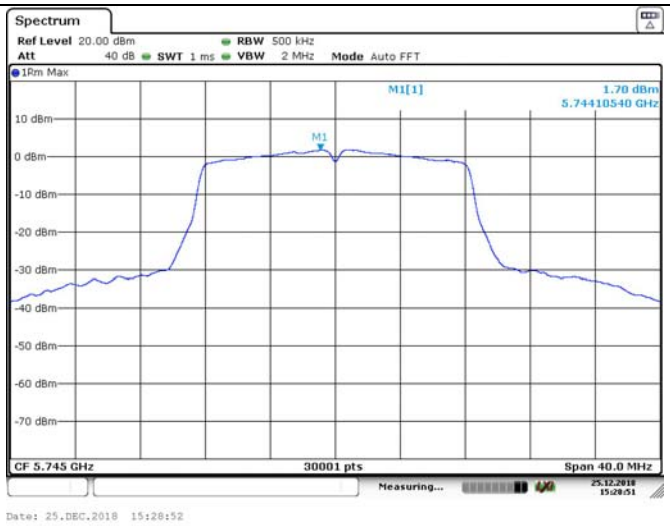
UNII Band III IEEE 802.11n HT40 5510MHz



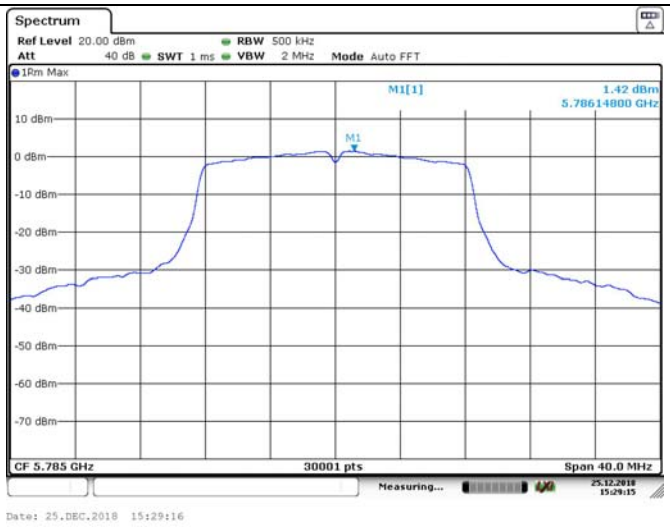

UNII Band III IEEE 802.11n HT40 5670MHz



UNII Band IV IEEE 802.11a 5745MHz

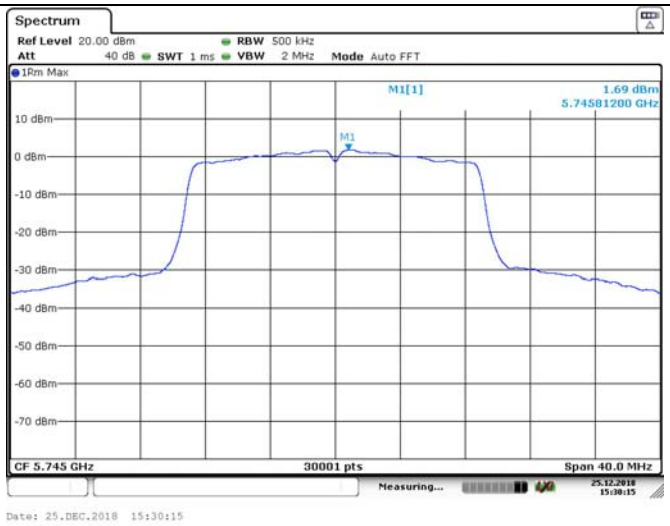



UNII Band IV IEEE 802.11a 5785MHz

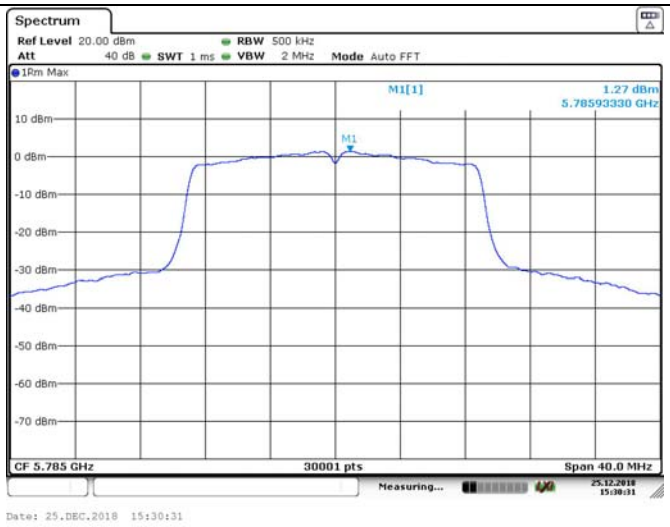



UNII Band IV IEEE 802.11a 5825MHz

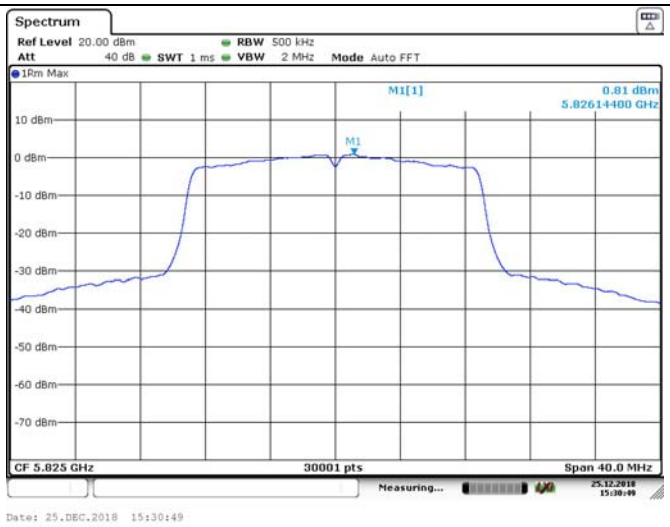
UNII Band IV IEEE 802.11n HT20 5745MHz



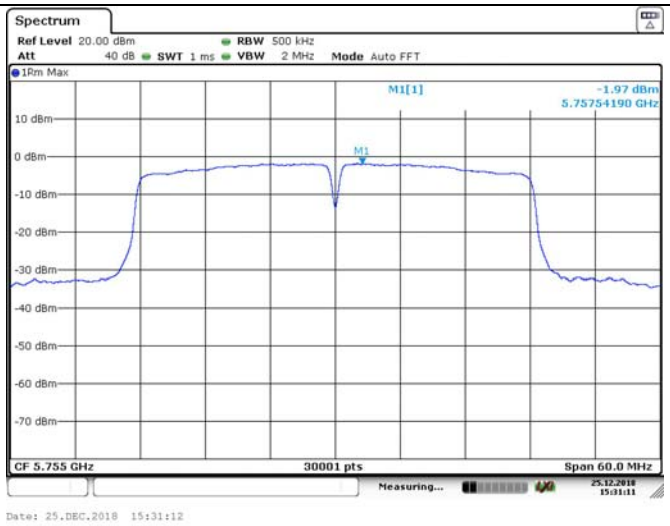

UNII Band IV IEEE 802.11n HT20 5785MHz



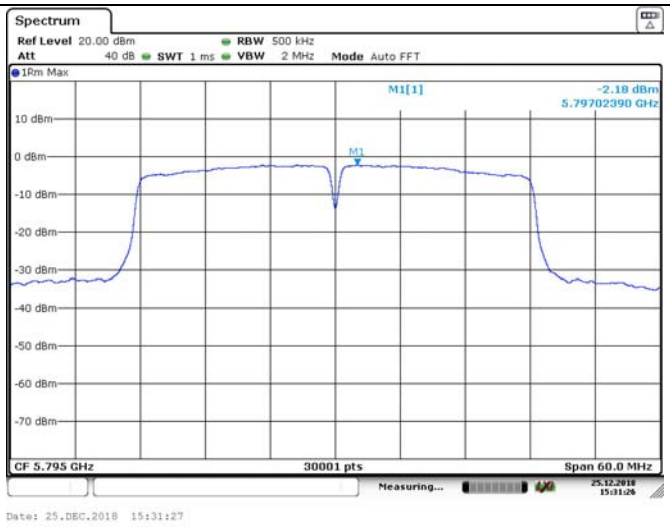

UNII Band IV IEEE 802.11n HT20 5825MHz



UNII Band IV IEEE 802.11n HT40 5755MHz




UNII Band IV IEEE 802.11n HT40 5795MHz

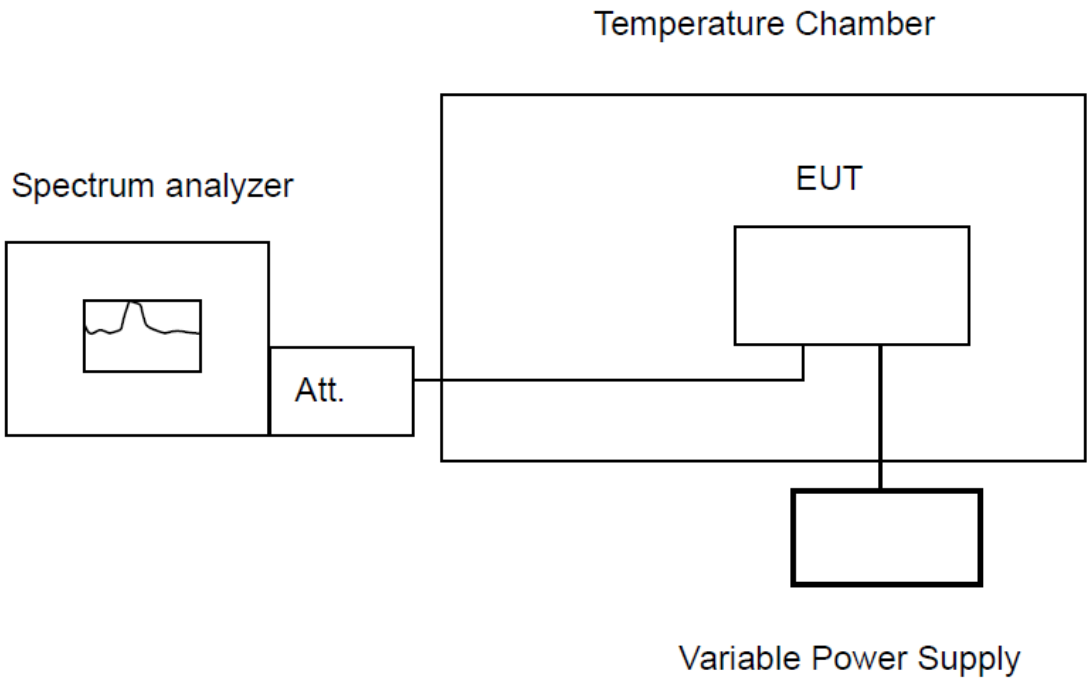


# 7. FREQUENCY STABILITY

## 7.1. Limit

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

## 7.2. Test Procedure




Remark :

a, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.

b, Place the EUT on the table and set it in the un-modulation transmitting mode.

c, The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –20℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

## 7.3. Test Information

| | |
|---|---|
| EUT:10.1" Android Tablet | |
| M/N: ONA19TB003 | |
| Test date: 2018-12-29 | Test site: RF sit Tested by: Seven |

## 7.4. Test Result

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) / Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band I | IEEE 802.11a 5180MHz | 50 | 120 | 5180.122656 | 5150-5250 | Pass |
| | | 40 | 120 | 5180.121565 | 5150-5250 | Pass |
| | | 30 | 120 | 5180.112365 | 5150-5250 | Pass |
| | | 20 | 120 | 5180.111598 | 5150-5250 | Pass |
| | | 10 | 120 | 5180.102156 | 5150-5250 | Pass |
| | | 0 | 120 | 5180.102656 | 5150-5250 | Pass |
| | | -10 | 120 | 5180.112335 | 5150-5250 | Pass |
| | | -20 | 120 | 5180.121563 | 5150-5250 | Pass |
| | | 20 | 108 | 5180.113656 | 5150-5250 | Pass |
| | | 20 | 120 | 5180.122356 | 5150-5250 | Pass |
| | | 20 | 132 | 5180.122363 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) / Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band I | IEEE 802.11a 5200MHz | 50 | 120 | 5200.125689 | 5150-5250 | Pass |
| | | 40 | 120 | 5200.122656 | 5150-5250 | Pass |
| | | 30 | 120 | 5200.122656 | 5150-5250 | Pass |
| | | 20 | 120 | 5200.112356 | 5150-5250 | Pass |
| | | 10 | 120 | 5200.112335 | 5150-5250 | Pass |
| | | 0 | 120 | 5200.102356 | 5150-5250 | Pass |
| | | -10 | 120 | 5200.122335 | 5150-5250 | Pass |
| | | -20 | 120 | 5200.135689 | 5150-5250 | Pass |
| | | 20 | 108 | 5200.122656 | 5150-5250 | Pass |
| | | 20 | 120 | 5200.112356 | 5150-5250 | Pass |
| | | 20 | 132 | 5200.122356 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band I | IEEE 802.11a 5240MHz | 50 | 120 | 5240.121566 | 5150-5250 | Pass |
| | | 40 | 120 | 5240.112356 | 5150-5250 | Pass |
| | | 30 | 120 | 5240.112356 | 5150-5250 | Pass |
| | | 20 | 120 | 5240.122356 | 5150-5250 | Pass |
| | | 10 | 120 | 5240.102356 | 5150-5250 | Pass |
| | | 0 | 120 | 5240.122365 | 5150-5250 | Pass |
| | | -10 | 120 | 5240.112356 | 5150-5250 | Pass |
| | | -20 | 120 | 5240.112356 | 5150-5250 | Pass |
| | | 20 | 108 | 5240.122353 | 5150-5250 | Pass |
| | | 20 | 120 | 5240.112362 | 5150-5250 | Pass |
| | | 20 | 132 | 5240.102356 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band II | IEEE 802.11a 5260MHz | 50 | 120 | 5260.111566 | 5250-5350 | Pass |
| | | 40 | 120 | 5260.122356 | 5250-5350 | Pass |
| | | 30 | 120 | 5260.122356 | 5250-5350 | Pass |
| | | 20 | 120 | 5260.112356 | 5250-5350 | Pass |
| | | 10 | 120 | 5260.102365 | 5250-5350 | Pass |
| | | 0 | 120 | 5260.112356 | 5250-5350 | Pass |
| | | -10 | 120 | 5260.102356 | 5250-5350 | Pass |
| | | -20 | 120 | 5260.122356 | 5250-5350 | Pass |
| | | 20 | 108 | 5260.121566 | 5250-5350 | Pass |
| | | 20 | 120 | 5260.122323 | 5250-5350 | Pass |
| | | 20 | 132 | 5260.122356 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band II | IEEE 802.11a 5300MHz | 50 | 120 | 5300.125689 | 5250-5350 | Pass |
| | | 40 | 120 | 5300.122656 | 5250-5350 | Pass |
| | | 30 | 120 | 5300.102356 | 5250-5350 | Pass |
| | | 20 | 120 | 5300.122356 | 5250-5350 | Pass |
| | | 10 | 120 | 5300.112356 | 5250-5350 | Pass |
| | | 0 | 120 | 5300.122659 | 5250-5350 | Pass |
| | | -10 | 120 | 5300.112656 | 5250-5350 | Pass |
| | | -20 | 120 | 5300.122656 | 5250-5350 | Pass |
| | | 20 | 108 | 5300.122656 | 5250-5350 | Pass |
| | | 20 | 120 | 5300.112365 | 5250-5350 | Pass |
| | | 20 | 132 | 5300.102656 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant 1 | | |
| UNII Band II | IEEE 802.11a 5320MHz | 50 | 120 | 5320.125689 | 5250-5350 | Pass |
| | | 40 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | 30 | 120 | 5320.122656 | 5250-5350 | Pass |
| | | 20 | 120 | 5320.112365 | 5250-5350 | Pass |
| | | 10 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | 0 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | -10 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | -20 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | 20 | 108 | 5320.112656 | 5250-5350 | Pass |
| | | 20 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | 20 | 132 | 5320.112656 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band III | IEEE 802.11a 5500MHz | 50 | 120 | 5500.112136 | 5475-5725 | Pass |
| | | 40 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | 30 | 120 | 5500.115694 | 5475-5725 | Pass |
| | | 20 | 120 | 5500.122656 | 5475-5725 | Pass |
| | | 10 | 120 | 5500.112356 | 5475-5725 | Pass |
| | | 0 | 120 | 5500.122356 | 5475-5725 | Pass |
| | | -10 | 120 | 5500.112356 | 5475-5725 | Pass |
| | | -20 | 120 | 5500.122363 | 5475-5725 | Pass |
| | | 20 | 108 | 5500.112356 | 5475-5725 | Pass |
| | | 20 | 120 | 5500.112365 | 5475-5725 | Pass |
| | | 20 | 132 | 5500.112656 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant 1 | | |
| UNII Band III | IEEE 802.11a 5580MHz | 50 | 120 | 5580.122356 | 5475-5725 | Pass |
| | | 40 | 120 | 5580.122356 | 5475-5725 | Pass |
| | | 30 | 120 | 5580.112350 | 5475-5725 | Pass |
| | | 20 | 120 | 5580.102356 | 5475-5725 | Pass |
| | | 10 | 120 | 5580.112356 | 5475-5725 | Pass |
| | | 0 | 120 | 5580.102365 | 5475-5725 | Pass |
| | | -10 | 120 | 5580.122356 | 5475-5725 | Pass |
| | | -20 | 120 | 5580.125689 | 5475-5725 | Pass |
| | | 20 | 108 | 5580.112656 | 5475-5725 | Pass |
| | | 20 | 120 | 5580.102656 | 5475-5725 | Pass |
| | | 20 | 132 | 5580.112659 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band III | IEEE 802.11a 5700MHz | 50 | 120 | 5700.131656 | 5475-5725 | Pass |
| | | 40 | 120 | 5700.112651 | 5475-5725 | Pass |
| | | 30 | 120 | 5700.112356 | 5475-5725 | Pass |
| | | 20 | 120 | 5700.112358 | 5475-5725 | Pass |
| | | 10 | 120 | 5700.112020 | 5475-5725 | Pass |
| | | 0 | 120 | 5700.122356 | 5475-5725 | Pass |
| | | -10 | 120 | 5700.112656 | 5475-5725 | Pass |
| | | -20 | 120 | 5700.112351 | 5475-5725 | Pass |
| | | 20 | 108 | 5700.122356 | 5475-5725 | Pass |
| | | 20 | 120 | 5700.111304 | 5475-5725 | Pass |
| | | 20 | 132 | 5700.124986 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band IV | IEEE 802.11a 5745MHz | 50 | 120 | 5745.125689 | 5725-5850 | Pass |
| | | 40 | 120 | 5745.122656 | 5725-5850 | Pass |
| | | 30 | 120 | 5745.102356 | 5725-5850 | Pass |
| | | 20 | 120 | 5745.102335 | 5725-5850 | Pass |
| | | 10 | 120 | 5745.102656 | 5725-5850 | Pass |
| | | 0 | 120 | 5745.112365 | 5725-5850 | Pass |
| | | -10 | 120 | 5745.102651 | 5725-5850 | Pass |
| | | -20 | 120 | 5745.112356 | 5725-5850 | Pass |
| | | 20 | 108 | 5745.102356 | 5725-5850 | Pass |
| | | 20 | 120 | 5745.112656 | 5725-5850 | Pass |
| | | 20 | 132 | 5745.102656 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band IV | IEEE 802.11a 5785MHz | 50 | 120 | 5785.121356 | 5725-5850 | Pass |
| | | 40 | 120 | 5785.122656 | 5725-5850 | Pass |
| | | 30 | 120 | 5785.111548 | 5725-5850 | Pass |
| | | 20 | 120 | 5785.111560 | 5725-5850 | Pass |
| | | 10 | 120 | 5785.114565 | 5725-5850 | Pass |
| | | 0 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | -10 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | -20 | 120 | 5785.112356 | 5725-5850 | Pass |
| | | 20 | 108 | 5785.112356 | 5725-5850 | Pass |
| | | 20 | 120 | 5785.112356 | 5725-5850 | Pass |
| | | 20 | 132 | 5785.112356 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band IV | IEEE 802.11a 5825MHz | 50 | 120 | 5785.132156 | 5725-5850 | Pass |
| | | 40 | 120 | 5785.115689 | 5725-5850 | Pass |
| | | 30 | 120 | 5785.111562 | 5725-5850 | Pass |
| | | 20 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | 10 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | 0 | 120 | 5785.112335 | 5725-5850 | Pass |
| | | -10 | 120 | 5785.122365 | 5725-5850 | Pass |
| | | -20 | 120 | 5785.112652 | 5725-5850 | Pass |
| | | 20 | 108 | 5785.122656 | 5725-5850 | Pass |
| | | 20 | 120 | 5785.122365 | 5725-5850 | Pass |
| | | 20 | 132 | 5785.112656 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band I | IEEE 802.11n HT20 5180MHz | 50 | 120 | 5180.132651 | 5150-5250 | Pass |
| | | 40 | 120 | 5180.112355 | 5150-5250 | Pass |
| | | 30 | 120 | 5180.122356 | 5150-5250 | Pass |
| | | 20 | 120 | 5180.112351 | 5150-5250 | Pass |
| | | 10 | 120 | 5180.112356 | 5150-5250 | Pass |
| | | 0 | 120 | 5180.122356 | 5150-5250 | Pass |
| | | -10 | 120 | 5180.102356 | 5150-5250 | Pass |
| | | -20 | 120 | 5180.112356 | 5150-5250 | Pass |
| | | 20 | 108 | 5180.122356 | 5150-5250 | Pass |
| | | 20 | 120 | 5180.112356 | 5150-5250 | Pass |
| | | 20 | 132 | 5180.122356 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band I | IEEE 802.11n HT20 5200MHz | 50 | 120 | 5200.112656 | 5150-5250 | Pass |
| | | 40 | 120 | 5200.112363 | 5150-5250 | Pass |
| | | 30 | 120 | 5200.112365 | 5150-5250 | Pass |
| | | 20 | 120 | 5200.112656 | 5150-5250 | Pass |
| | | 10 | 120 | 5200.112651 | 5150-5250 | Pass |
| | | 0 | 120 | 5200.122655 | 5150-5250 | Pass |
| | | -10 | 120 | 5200.111540 | 5150-5250 | Pass |
| | | -20 | 120 | 5200.124814 | 5150-5250 | Pass |
| | | 20 | 108 | 5200.122651 | 5150-5250 | Pass |
| | | 20 | 120 | 5200.112356 | 5150-5250 | Pass |
| | | 20 | 132 | 5200.111561 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band I | IEEE 802.11n HT20 5240MHz | 50 | 120 | 5240.112656 | 5150-5250 | Pass |
| | | 40 | 120 | 5240.112510 | 5150-5250 | Pass |
| | | 30 | 120 | 5240.121548 | 5150-5250 | Pass |
| | | 20 | 120 | 5240.111563 | 5150-5250 | Pass |
| | | 10 | 120 | 5240.112656 | 5150-5250 | Pass |
| | | 0 | 120 | 5240.112555 | 5150-5250 | Pass |
| | | -10 | 120 | 5240.111241 | 5150-5250 | Pass |
| | | -20 | 120 | 5240.111546 | 5150-5250 | Pass |
| | | 20 | 108 | 5240.122651 | 5150-5250 | Pass |
| | | 20 | 120 | 5240.111545 | 5150-5250 | Pass |
| | | 20 | 132 | 5240.111512 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band II | IEEE 802.11n HT20 5260MHz | 50 | 120 | 5260.122659 | 5250-5350 | Pass |
| | | 40 | 120 | 5260.122654 | 5250-5350 | Pass |
| | | 30 | 120 | 5260.122545 | 5250-5350 | Pass |
| | | 20 | 120 | 5260.111441 | 5250-5350 | Pass |
| | | 10 | 120 | 5260.112563 | 5250-5350 | Pass |
| | | 0 | 120 | 5260.112656 | 5250-5350 | Pass |
| | | -10 | 120 | 5260.111598 | 5250-5350 | Pass |
| | | -20 | 120 | 5260.112656 | 5250-5350 | Pass |
| | | 20 | 108 | 5260.112656 | 5250-5350 | Pass |
| | | 20 | 120 | 5260.112656 | 5250-5350 | Pass |
| | | 20 | 132 | 5260.121541 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band II | IEEE 802.11n HT20 5300MHz | 50 | 120 | 5300.115890 | 5250-5350 | Pass |
| | | 40 | 120 | 5300.122656 | 5250-5350 | Pass |
| | | 30 | 120 | 5300.112658 | 5250-5350 | Pass |
| | | 20 | 120 | 5300.112656 | 5250-5350 | Pass |
| | | 10 | 120 | 5300.112656 | 5250-5350 | Pass |
| | | 0 | 120 | 5300.112656 | 5250-5350 | Pass |
| | | -10 | 120 | 5300.122656 | 5250-5350 | Pass |
| | | -20 | 120 | 5300.112656 | 5250-5350 | Pass |
| | | 20 | 108 | 5300.115656 | 5250-5350 | Pass |
| | | 20 | 120 | 5300.112656 | 5250-5350 | Pass |
| | | 20 | 132 | 5300.112656 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band II | IEEE 802.11n HT20 5320MHz | 50 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | 40 | 120 | 5320.112651 | 5250-5350 | Pass |
| | | 30 | 120 | 5320.122655 | 5250-5350 | Pass |
| | | 20 | 120 | 5320.111655 | 5250-5350 | Pass |
| | | 10 | 120 | 5320.112656 | 5250-5350 | Pass |
| | | 0 | 120 | 5320.111658 | 5250-5350 | Pass |
| | | -10 | 120 | 5320.111651 | 5250-5350 | Pass |
| | | -20 | 120 | 5320.111356 | 5250-5350 | Pass |
| | | 20 | 108 | 5320.112656 | 5250-5350 | Pass |
| | | 20 | 120 | 5320.112603 | 5250-5350 | Pass |
| | | 20 | 132 | 5320.111458 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant 1 | | |
| UNII Band III | IEEE 802.11n HT20 5500MHz | 50 | 120 | 5500.121325 | 5475-5725 | Pass |
| | | 40 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | 30 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | 20 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | 10 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | 0 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | -10 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | -20 | 120 | 5500.112656 | 5475-5725 | Pass |
| | | 20 | 108 | 5500.112656 | 5475-5725 | Pass |
| | | 20 | 120 | 5500.122656 | 5475-5725 | Pass |
| | | 20 | 132 | 5500.112656 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant 1 | | |
| UNII Band III | IEEE 802.11n HT20 5580MHz | 50 | 120 | 5580.121356 | 5475-5725 | Pass |
| | | 40 | 120 | 5580.112656 | 5475-5725 | Pass |
| | | 30 | 120 | 5580.102656 | 5475-5725 | Pass |
| | | 20 | 120 | 5580.112656 | 5475-5725 | Pass |
| | | 10 | 120 | 5580.112656 | 5475-5725 | Pass |
| | | 0 | 120 | 5580.112656 | 5475-5725 | Pass |
| | | -10 | 120 | 5580.122656 | 5475-5725 | Pass |
| | | -20 | 120 | 5580.112656 | 5475-5725 | Pass |
| | | 20 | 108 | 5580.112656 | 5475-5725 | Pass |
| | | 20 | 120 | 5580.142656 | 5475-5725 | Pass |
| | | 20 | 132 | 5580.112656 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band III | IEEE 802.11n HT20 5700MHz | 50 | 120 | 5700.121356 | 5475-5725 | Pass |
| | | 40 | 120 | 5700.111463 | 5475-5725 | Pass |
| | | 30 | 120 | 5700.122652 | 5475-5725 | Pass |
| | | 20 | 120 | 5700.112656 | 5475-5725 | Pass |
| | | 10 | 120 | 5700.122650 | 5475-5725 | Pass |
| | | 0 | 120 | 5700.112300 | 5475-5725 | Pass |
| | | -10 | 120 | 5700.112623 | 5475-5725 | Pass |
| | | -20 | 120 | 5700.112635 | 5475-5725 | Pass |
| | | 20 | 108 | 5700.112656 | 5475-5725 | Pass |
| | | 20 | 120 | 5700.111545 | 5475-5725 | Pass |
| | | 20 | 132 | 5700.112588 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band IV | IEEE 802.11n HT20 5745MHz | 50 | 120 | 5745.125898 | 5725-5850 | Pass |
| | | 40 | 120 | 5745.112656 | 5725-5850 | Pass |
| | | 30 | 120 | 5745.122651 | 5725-5850 | Pass |
| | | 20 | 120 | 5745.112655 | 5725-5850 | Pass |
| | | 10 | 120 | 5745.112615 | 5725-5850 | Pass |
| | | 0 | 120 | 5745.111259 | 5725-5850 | Pass |
| | | -10 | 120 | 5745.101589 | 5725-5850 | Pass |
| | | -20 | 120 | 5745.112555 | 5725-5850 | Pass |
| | | 20 | 108 | 5745.121548 | 5725-5850 | Pass |
| | | 20 | 120 | 5745.112555 | 5725-5850 | Pass |
| | | 20 | 132 | 5745.122656 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band IV | IEEE 802.11n HT20 5785MHz | 50 | 120 | 5785.172656 | 5725-5850 | Pass |
| | | 40 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | 30 | 120 | 5785.112610 | 5725-5850 | Pass |
| | | 20 | 120 | 5785.111545 | 5725-5850 | Pass |
| | | 10 | 120 | 5785.111656 | 5725-5850 | Pass |
| | | 0 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | -10 | 120 | 5785.122656 | 5725-5850 | Pass |
| | | -20 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | 20 | 108 | 5785.122656 | 5725-5850 | Pass |
| | | 20 | 120 | 5785.112656 | 5725-5850 | Pass |
| | | 20 | 132 | 5785.112656 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band IV | IEEE 802.11n HT20 5825MHz | 50 | 120 | 5825.132656 | 5725-5850 | Pass |
| | | 40 | 120 | 5825.112656 | 5725-5850 | Pass |
| | | 30 | 120 | 5825.121548 | 5725-5850 | Pass |
| | | 20 | 120 | 5825.111545 | 5725-5850 | Pass |
| | | 10 | 120 | 5825.111545 | 5725-5850 | Pass |
| | | 0 | 120 | 5825.111151 | 5725-5850 | Pass |
| | | -10 | 120 | 5825.122656 | 5725-5850 | Pass |
| | | -20 | 120 | 5825.112656 | 5725-5850 | Pass |
| | | 20 | 108 | 5825.110547 | 5725-5850 | Pass |
| | | 20 | 120 | 5825.120451 | 5725-5850 | Pass |
| | | 20 | 132 | 5825.125664 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band I | IEEE 802.11n HT40 5190MHz | 50 | 120 | 5190.135898 | 5150-5250 | Pass |
| | | 40 | 120 | 5190.132656 | 5150-5250 | Pass |
| | | 30 | 120 | 5190.132651 | 5150-5250 | Pass |
| | | 20 | 120 | 5190.121656 | 5150-5250 | Pass |
| | | 10 | 120 | 5190.131540 | 5150-5250 | Pass |
| | | 0 | 120 | 5190.131501 | 5150-5250 | Pass |
| | | -10 | 120 | 5190.131540 | 5150-5250 | Pass |
| | | -20 | 120 | 5190.131544 | 5150-5250 | Pass |
| | | 20 | 108 | 5190.135659 | 5150-5250 | Pass |
| | | 20 | 120 | 5190.131546 | 5150-5250 | Pass |
| | | 20 | 132 | 5190.131545 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| | | | | Ant | | |
| UNII Band I | IEEE 802.11n HT40 5230MHz | 50 | 120 | 5230.135454 | 5150-5250 | Pass |
| | | 40 | 120 | 5230.135656 | 5150-5250 | Pass |
| | | 30 | 120 | 5230.132655 | 5150-5250 | Pass |
| | | 20 | 120 | 5230.132651 | 5150-5250 | Pass |
| | | 10 | 120 | 5230.131541 | 5150-5250 | Pass |
| | | 0 | 120 | 5230.131644 | 5150-5250 | Pass |
| | | -10 | 120 | 5230.131345 | 5150-5250 | Pass |
| | | -20 | 120 | 5230.135985 | 5150-5250 | Pass |
| | | 20 | 108 | 5230.131568 | 5150-5250 | Pass |
| | | 20 | 120 | 5230.131144 | 5150-5250 | Pass |
| | | 20 | 132 | 5230.132658 | 5150-5250 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band II | IEEE 802.11n HT40 5270MHz | 50 | 120 | 5270.131335 | 5250-5350 | Pass |
| | | 40 | 120 | 5270.132656 | 5250-5350 | Pass |
| | | 30 | 120 | 5270.132657 | 5250-5350 | Pass |
| | | 20 | 120 | 5270.112655 | 5250-5350 | Pass |
| | | 10 | 120 | 5270.132654 | 5250-5350 | Pass |
| | | 0 | 120 | 5270.131356 | 5250-5350 | Pass |
| | | -10 | 120 | 5270.132656 | 5250-5350 | Pass |
| | | -20 | 120 | 5270.132656 | 5250-5350 | Pass |
| | | 20 | 108 | 5270.132656 | 5250-5350 | Pass |
| | | 20 | 120 | 5270.134581 | 5250-5350 | Pass |
| | | 20 | 132 | 5270.132565 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band II | IEEE 802.11n HT40 5310MHz | 50 | 120 | 5310.134565 | 5250-5350 | Pass |
| | | 40 | 120 | 5310.131656 | 5250-5350 | Pass |
| | | 30 | 120 | 5310.132656 | 5250-5350 | Pass |
| | | 20 | 120 | 5310.121645 | 5250-5350 | Pass |
| | | 10 | 120 | 5310.132656 | 5250-5350 | Pass |
| | | 0 | 120 | 5310.136466 | 5250-5350 | Pass |
| | | -10 | 120 | 5310.132656 | 5250-5350 | Pass |
| | | -20 | 120 | 5310.131541 | 5250-5350 | Pass |
| | | 20 | 108 | 5310.131251 | 5250-5350 | Pass |
| | | 20 | 120 | 5310.131548 | 5250-5350 | Pass |
| | | 20 | 132 | 5310.131545 | 5250-5350 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band III | IEEE 802.11n HT40 5510MHz | 50 | 120 | 5510.121656 | 5475-5725 | Pass |
| | | 40 | 120 | 5510.122656 | 5475-5725 | Pass |
| | | 30 | 120 | 5510.122656 | 5475-5725 | Pass |
| | | 20 | 120 | 5510.131548 | 5475-5725 | Pass |
| | | 10 | 120 | 5510.121546 | 5475-5725 | Pass |
| | | 0 | 120 | 5510.126567 | 5475-5725 | Pass |
| | | -10 | 120 | 5510.121514 | 5475-5725 | Pass |
| | | -20 | 120 | 5510.124114 | 5475-5725 | Pass |
| | | 20 | 108 | 5510.124578 | 5475-5725 | Pass |
| | | 20 | 120 | 5510.125541 | 5475-5725 | Pass |
| | | 20 | 132 | 5510.122654 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band III | IEEE 802.11n HT40 5670MHz | 50 | 120 | 5670.125656 | 5475-5725 | Pass |
| | | 40 | 120 | 5670.125989 | 5475-5725 | Pass |
| | | 30 | 120 | 5670.122666 | 5475-5725 | Pass |
| | | 20 | 120 | 5670.132648 | 5475-5725 | Pass |
| | | 10 | 120 | 5670.121548 | 5475-5725 | Pass |
| | | 0 | 120 | 5670.121548 | 5475-5725 | Pass |
| | | -10 | 120 | 5670.121015 | 5475-5725 | Pass |
| | | -20 | 120 | 5670.122654 | 5475-5725 | Pass |
| | | 20 | 108 | 5670.121545 | 5475-5725 | Pass |
| | | 20 | 120 | 5670.122655 | 5475-5725 | Pass |
| | | 20 | 132 | 5670.121545 | 5475-5725 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band IV | IEEE 802.11n HT40 5755MHz | 50 | 120 | 5755.122565 | 5725-5850 | Pass |
| | | 40 | 120 | 5755.122656 | 5725-5850 | Pass |
| | | 30 | 120 | 5755.125656 | 5725-5850 | Pass |
| | | 20 | 120 | 5755.134545 | 5725-5850 | Pass |
| | | 10 | 120 | 5755.121545 | 5725-5850 | Pass |
| | | 0 | 120 | 5755.126566 | 5725-5850 | Pass |
| | | -10 | 120 | 5755.126565 | 5725-5850 | Pass |
| | | -20 | 120 | 5755.125656 | 5725-5850 | Pass |
| | | 20 | 108 | 5755.125656 | 5725-5850 | Pass |
| | | 20 | 120 | 5755.125656 | 5725-5850 | Pass |
| | | 20 | 132 | 5755.125656 | 5725-5850 | Pass |

| Band | Mode | Temperature (℃) | Voltage (V) | Measured Frequency (MHz) Ant | Limit Range (MHz) | Result |
|---|---|---|---|---|---|---|
| UNII Band IV | IEEE 802.11n HT40 5795MHz | 50 | 120 | 5795.125656 | 5725-5850 | Pass |
| | | 40 | 120 | 5795.122611 | 5725-5850 | Pass |
| | | 30 | 120 | 5795.120154 | 5725-5850 | Pass |
| | | 20 | 120 | 5795.131545 | 5725-5850 | Pass |
| | | 10 | 120 | 5795.121501 | 5725-5850 | Pass |
| | | 0 | 120 | 5795.121541 | 5725-5850 | Pass |
| | | -10 | 120 | 5795.121544 | 5725-5850 | Pass |
| | | -20 | 120 | 5795.124545 | 5725-5850 | Pass |
| | | 20 | 108 | 5795.124545 | 5725-5850 | Pass |
| | | 20 | 120 | 5795.121548 | 5725-5850 | Pass |
| | | 20 | 132 | 5795.121545 | 5725-5850 | Pass |

# 8. RADIATED SPURIOUS EMISSIONS

## 8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209&15.407(b), all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 &15.407(b)limits.

15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1]0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | ([2]) |

15.209 &15.407(b) Limit

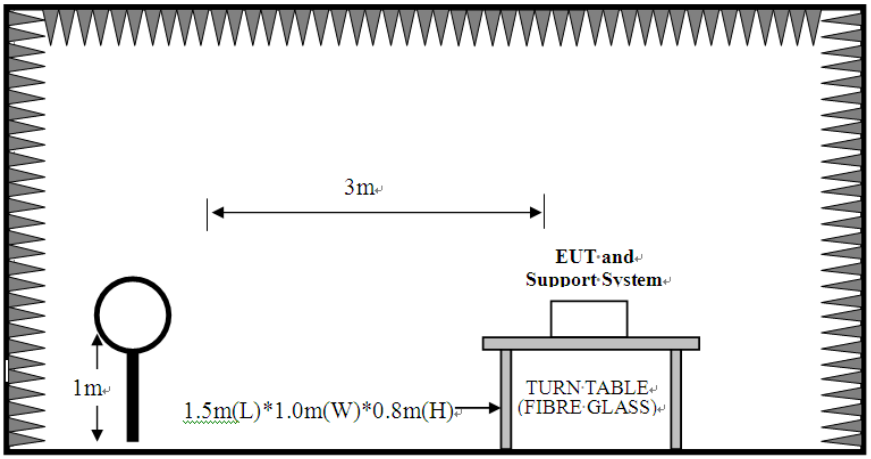
| Frequency (MHz) | Field Strength(μV/m) | Distance(m) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark：(1) Emission level dBμV = 20 log Emission level μV/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

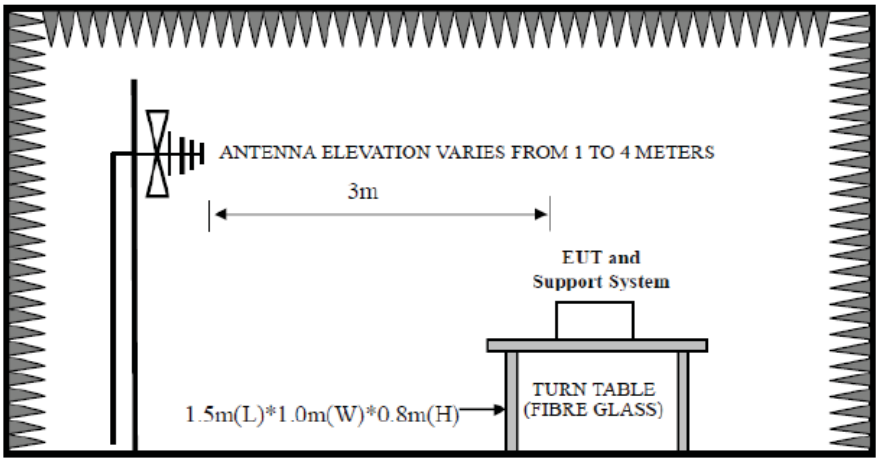
5150 MHz - 5250 MHz : e.i.r.p -27 dBm (68.2dBuV/m@3m)
5250 MHz - 5350 MHz : e.i.r.p -27 dBm (68.2dBuV/m@3m)
5470 MHz - 5725 MHz : e.i.r.p -27 dBm (68.2dBuV/m@3m)
5725 MHz - 5850 MHz : all emissions shall be limited to a level of -27 dBm/Mhz at 75Mhz or more above or below the band edge increasing linearly to 10dBm/Mhz at 25 Mhz above or below the band edge ,and from 25Mhz above or below the band edge increasing linearly to to a level of 15.6 dBm/Mhz at 5MHz above or below the band edge ,and from 5Mhz above or below the band edge increasing linearly to a level of 27 dBm/Mhz at the band edge.

## 8.2. Block Diagram of Test setup

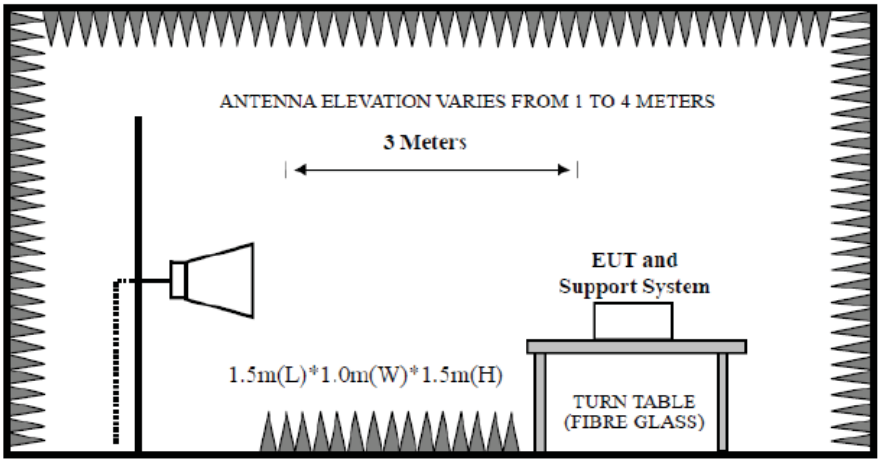
9kHz~30MHz




30~1000MHz




Above 1GHz



## 8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 9 kHz to 10th harmonic are checked.

## 8.4. Test Result

Pass

Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2、 The frequency 5180MHz 、5190MHz、5200MHz、5230 MHz、5240 MHz、5260 MHz、5270 MHz、5300 MHz、5310 MHz、5320 MHz、5500 MHz、5510 MHz、5580 MHz、5670 MHz、5700 MHz、5745 MHz、5755 MHz、5785 MHz、5795 MHz、5825MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

## 8.5. Test Data

9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30 MHz – 1000 MHz

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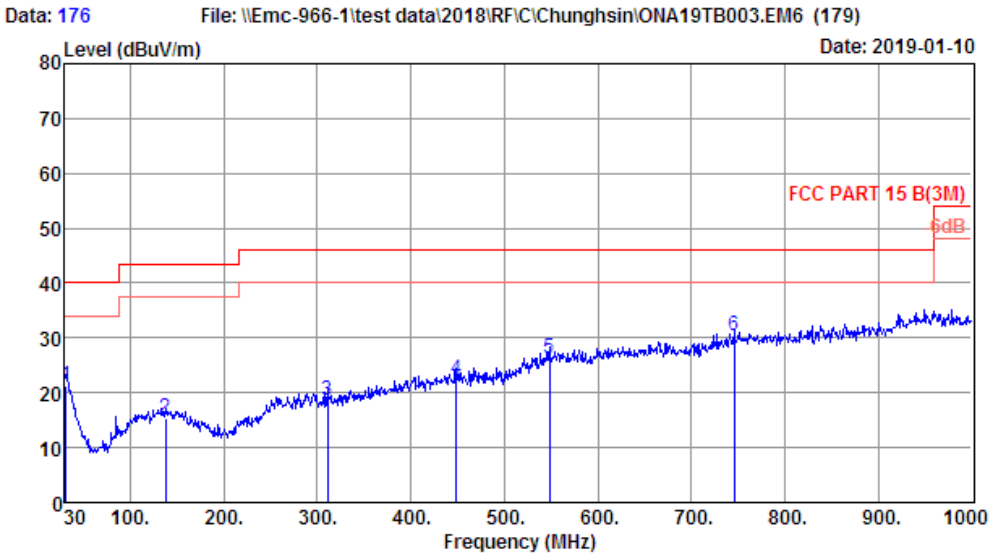


Site no. : 1# 966 Chamber Data no. : 176
Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:21.6';Humi:50.3%;Press:101.52kPa
Engineer : Maybe
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : TX Mode

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 30.97 | 18.48 | 0.20 | 2.53 | 21.21 | 40.00 | 18.79 | QP |
| 2 | 137.67 | 11.56 | 0.92 | 2.79 | 15.27 | 43.50 | 28.23 | QP |
| 3 | 311.30 | 13.75 | 1.64 | 3.28 | 18.67 | 46.00 | 27.33 | QP |
| 4 | 449.04 | 17.19 | 2.17 | 3.10 | 22.46 | 46.00 | 23.54 | QP |
| 5 | 547.98 | 20.77 | 2.44 | 3.04 | 26.25 | 46.00 | 19.75 | QP |
| 6 | 745.86 | 22.65 | 3.06 | 4.69 | 30.40 | 46.00 | 15.60 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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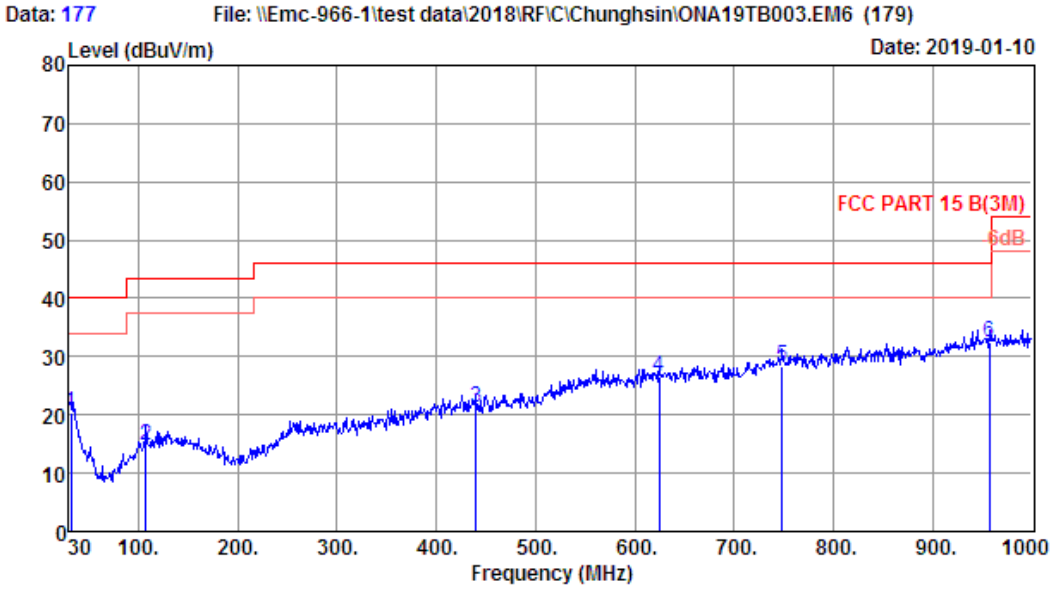


Site no. : 1# 966 Chamber Data no. : 177
Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:21.6';Humi:50.3%;Press:101.52kPa
Engineer : Maybe
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : TX Mode

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 31.94 | 17.96 | 0.22 | 2.10 | 20.28 | 40.00 | 19.72 | QP |
| 2 | 107.60 | 10.78 | 0.82 | 3.27 | 14.87 | 43.50 | 28.63 | QP |
| 3 | 440.31 | 17.12 | 2.11 | 2.14 | 21.37 | 46.00 | 24.63 | QP |
| 4 | 624.61 | 20.64 | 2.64 | 3.17 | 26.45 | 46.00 | 19.55 | QP |
| 5 | 748.77 | 22.76 | 3.12 | 2.32 | 28.20 | 46.00 | 17.80 | QP |
| 6 | 957.32 | 25.68 | 3.93 | 2.99 | 32.60 | 46.00 | 13.40 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

**1000-18000 MHz**

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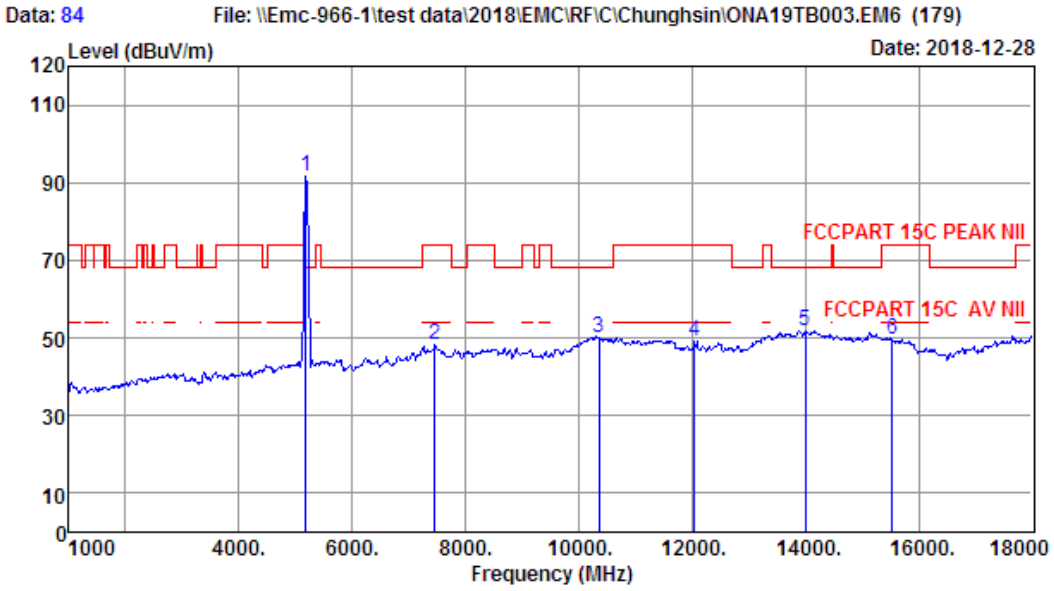


```
Site no.      : site                          Data no.  : 84
Dis. / Ant.   : 3m   9120D 1-18G              Ant. pol. : VERTICAL
Limit         : FCCPART 15C PEAK NII
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Seven
EUT           : 10.1" Android Tablet
Power         : DC 5V From Adapter Input AC 120V/60Hz
M/N           : ONA19TB003
Test Mode     : IEEE 802.11a TX 5180MHz
```

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5180.00 | 32.20 | 4.71 | 34.65 | 89.33 | 91.59 | 68.20 | -23.39 | Peak |
| 2 | 7460.00 | 36.36 | 6.04 | 34.55 | 40.36 | 48.21 | 74.00 | 25.79 | Peak |
| 3 | 10360.00 | 39.06 | 6.81 | 34.49 | 38.46 | 49.84 | 68.20 | 18.36 | Peak |
| 4 | 12050.00 | 39.31 | 7.87 | 34.59 | 36.43 | 49.02 | 74.00 | 24.98 | Peak |
| 5 | 14005.00 | 41.10 | 8.17 | 34.20 | 36.78 | 51.85 | 68.20 | 16.35 | Peak |
| 6 | 15540.00 | 39.18 | 8.65 | 34.19 | 35.79 | 49.43 | 74.00 | 24.57 | Peak |

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

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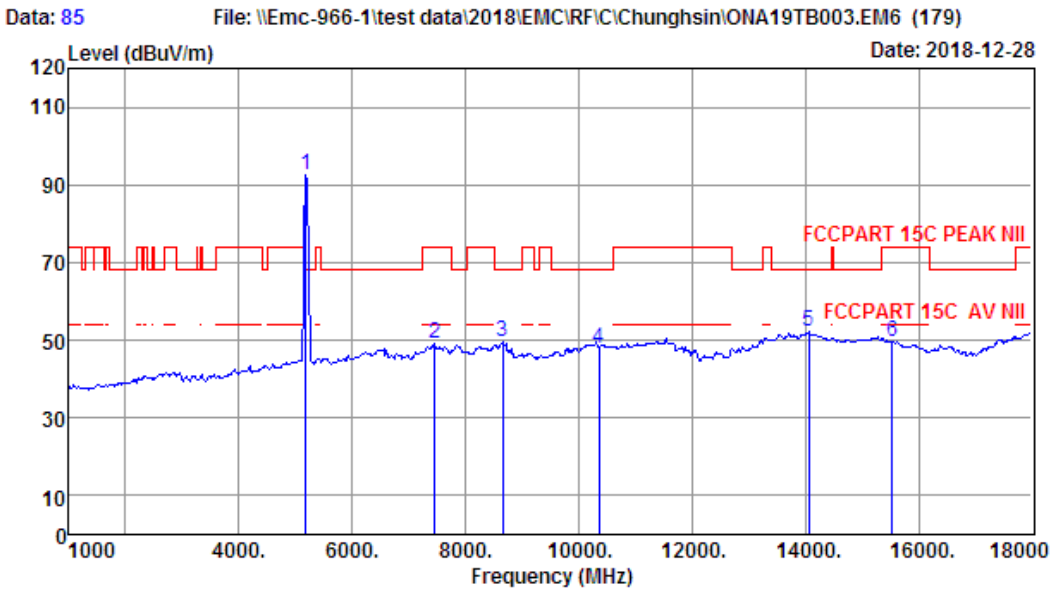


Site no. : site Data no. : 85
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5180MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5180.00 | 32.20 | 4.71 | 34.65 | 90.13 | 92.39 | 68.20 | -24.19 | Peak |
| 2 | 7460.00 | 36.36 | 6.04 | 34.55 | 41.13 | 48.98 | 74.00 | 25.02 | Peak |
| 3 | 8650.00 | 36.50 | 6.28 | 34.56 | 41.24 | 49.46 | 68.20 | 18.74 | Peak |
| 4 | 10360.00 | 39.06 | 6.81 | 34.49 | 36.38 | 47.76 | 68.20 | 20.44 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 36.99 | 52.06 | 68.20 | 16.14 | Peak |
| 6 | 15540.00 | 39.18 | 8.65 | 34.19 | 36.15 | 49.79 | 74.00 | 24.21 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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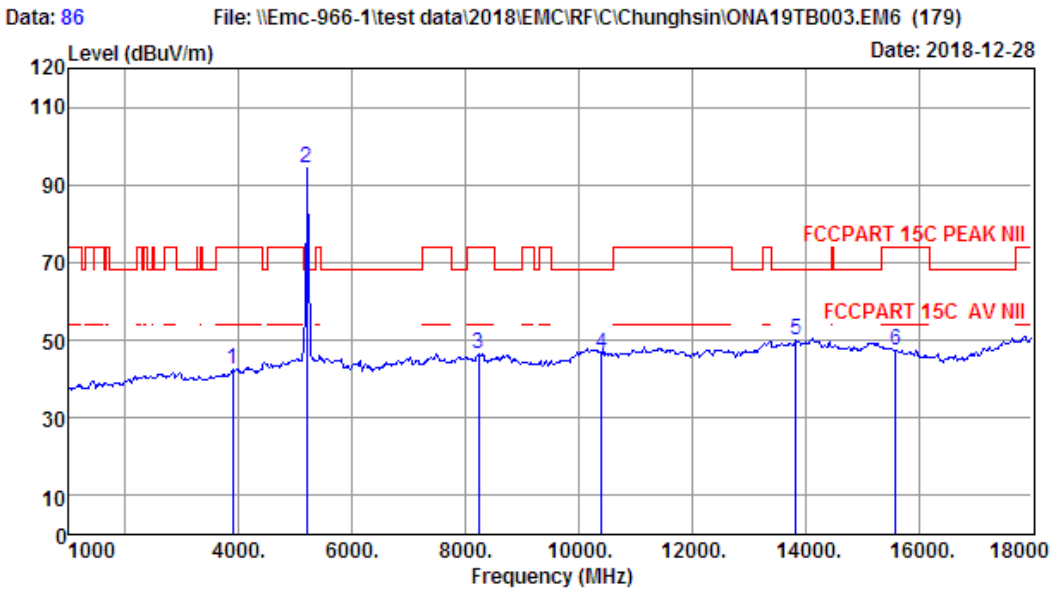


Site no. : 1# 966 Chamber Data no. : 86
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5200MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3890.00 | 29.16 | 3.92 | 34.59 | 44.13 | 42.62 | 74.00 | 31.38 | Peak |
| 2 | 5200.00 | 32.24 | 4.72 | 34.64 | 92.21 | 94.53 | 68.20 | -26.33 | Peak |
| 3 | 8225.00 | 36.50 | 6.42 | 34.52 | 38.09 | 46.49 | 74.00 | 27.51 | Peak |
| 4 | 10400.00 | 39.11 | 6.83 | 34.48 | 35.19 | 46.65 | 68.20 | 21.55 | Peak |
| 5 | 13835.00 | 40.81 | 8.16 | 34.23 | 35.17 | 49.91 | 68.20 | 18.29 | Peak |
| 6 | 15600.00 | 38.95 | 8.69 | 34.18 | 33.83 | 47.29 | 74.00 | 26.71 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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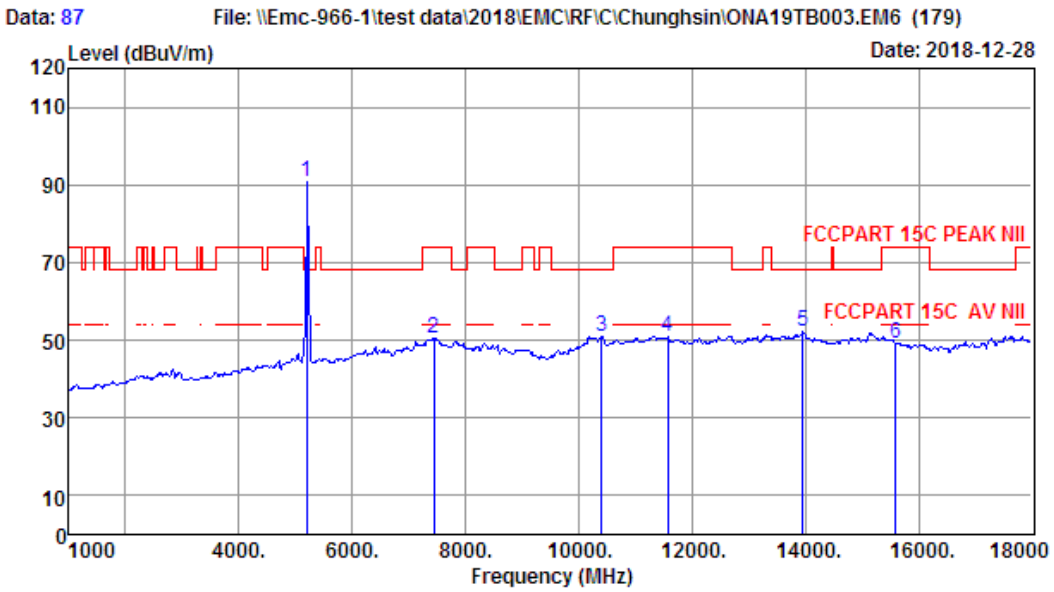


Site no. : 1# 966 Chamber Data no. : 87
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5200MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5200.00 | 32.24 | 4.72 | 34.64 | 88.68 | 91.00 | 68.20 | -22.80 | Peak |
| 2 | 7443.00 | 36.34 | 6.02 | 34.56 | 42.66 | 50.46 | 74.00 | 23.54 | Peak |
| 3 | 10400.00 | 39.11 | 6.83 | 34.48 | 39.41 | 50.87 | 68.20 | 17.33 | Peak |
| 4 | 11574.00 | 39.60 | 7.49 | 34.47 | 38.22 | 50.84 | 74.00 | 23.16 | Peak |
| 5 | 13954.00 | 41.01 | 8.15 | 34.21 | 37.14 | 52.09 | 68.20 | 16.11 | Peak |
| 6 | 15600.00 | 38.95 | 8.69 | 34.18 | 35.77 | 49.23 | 74.00 | 24.77 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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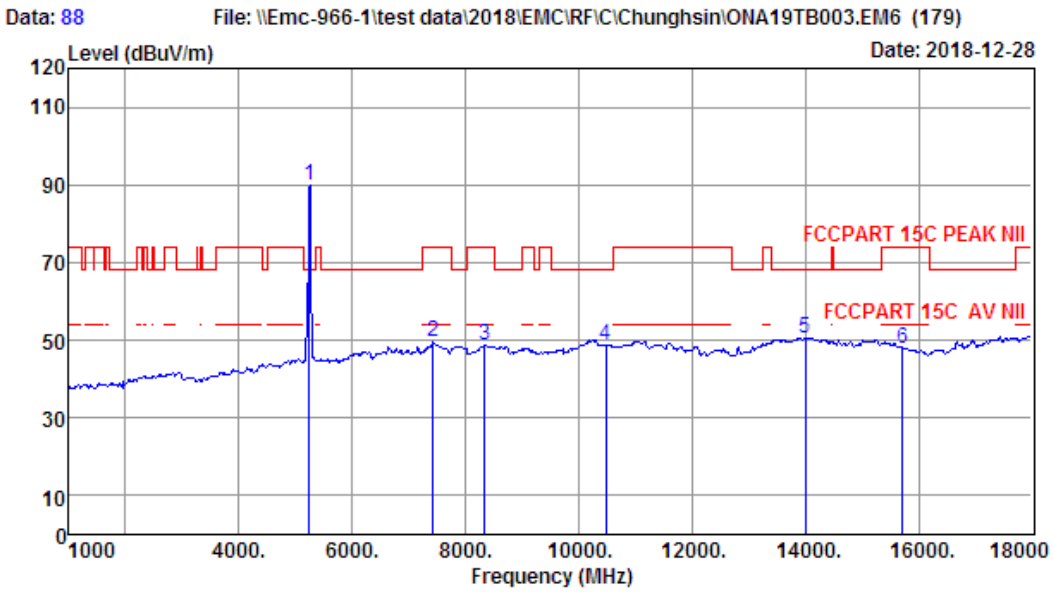


Site no. : 1# 966 Chamber Data no. : 88
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5240MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5240.00 | 32.31 | 4.75 | 34.63 | 87.26 | 89.69 | 68.20 | -21.49 | Peak |
| 2 | 7426.00 | 36.32 | 6.01 | 34.56 | 41.71 | 49.48 | 74.00 | 24.52 | Peak |
| 3 | 8344.00 | 36.50 | 6.11 | 34.53 | 40.61 | 48.69 | 74.00 | 25.31 | Peak |
| 4 | 10480.00 | 39.24 | 6.90 | 34.46 | 37.18 | 48.86 | 68.20 | 19.34 | Peak |
| 5 | 14005.00 | 41.10 | 8.17 | 34.20 | 35.57 | 50.64 | 68.20 | 17.56 | Peak |
| 6 | 15720.00 | 38.54 | 8.77 | 34.16 | 34.88 | 48.03 | 74.00 | 25.97 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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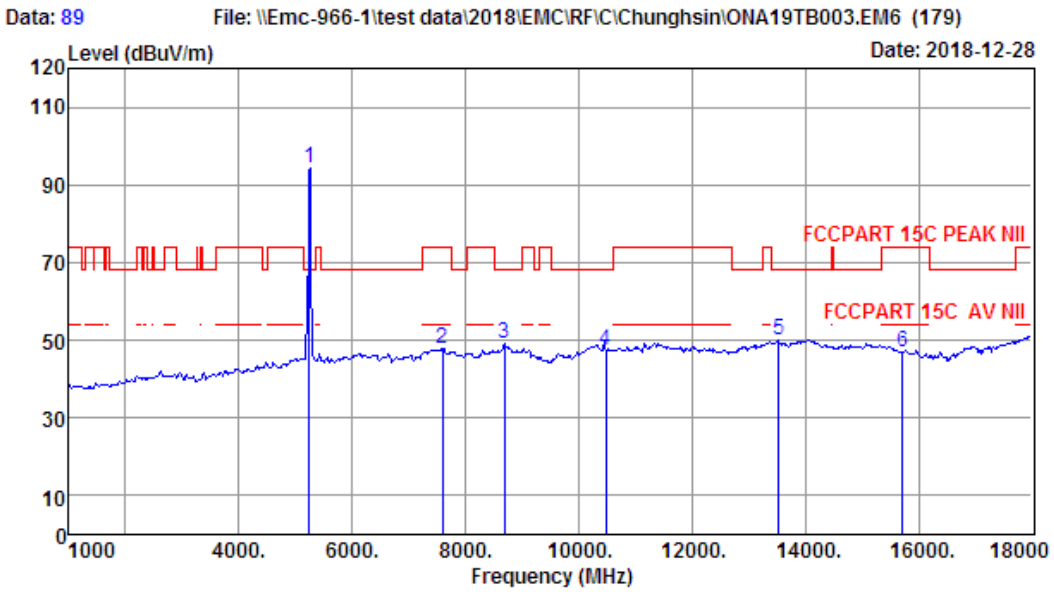


Site no. : 1# 966 Chamber Data no. : 89
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5240MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5240.00 | 32.31 | 4.75 | 34.63 | 91.68 | 94.11 | 68.20 | -25.91 | Peak |
| 2 | 7596.00 | 36.42 | 6.14 | 34.54 | 39.83 | 47.85 | 74.00 | 26.15 | Peak |
| 3 | 8684.00 | 36.50 | 6.28 | 34.57 | 40.81 | 49.02 | 68.20 | 19.18 | Peak |
| 4 | 10480.00 | 39.24 | 6.90 | 34.46 | 35.50 | 47.18 | 68.20 | 21.02 | Peak |
| 5 | 13529.00 | 40.29 | 8.17 | 34.29 | 35.78 | 49.95 | 68.20 | 18.25 | Peak |
| 6 | 15720.00 | 38.54 | 8.77 | 34.16 | 33.73 | 46.88 | 74.00 | 27.12 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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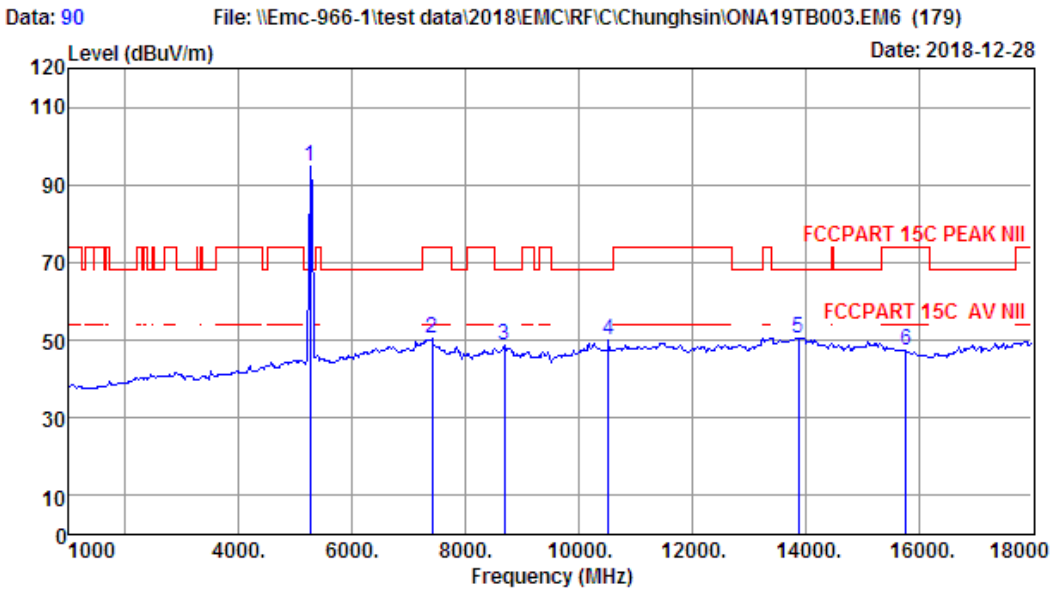


Site no. : 1# 966 Chamber Data no. : 90
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5260MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5260.00 | 32.39 | 4.78 | 34.62 | 92.01 | 94.56 | 68.20 | -26.36 | Peak |
| 2 | 7409.00 | 36.30 | 5.99 | 34.56 | 42.67 | 50.40 | 74.00 | 23.60 | Peak |
| 3 | 8684.00 | 36.50 | 6.28 | 34.57 | 40.67 | 48.88 | 68.20 | 19.32 | Peak |
| 4 | 10520.00 | 39.29 | 6.94 | 34.44 | 38.39 | 50.18 | 68.20 | 18.02 | Peak |
| 5 | 13886.00 | 40.90 | 8.16 | 34.22 | 35.84 | 50.68 | 68.20 | 17.52 | Peak |
| 6 | 15780.00 | 38.36 | 8.77 | 34.15 | 34.18 | 47.16 | 74.00 | 26.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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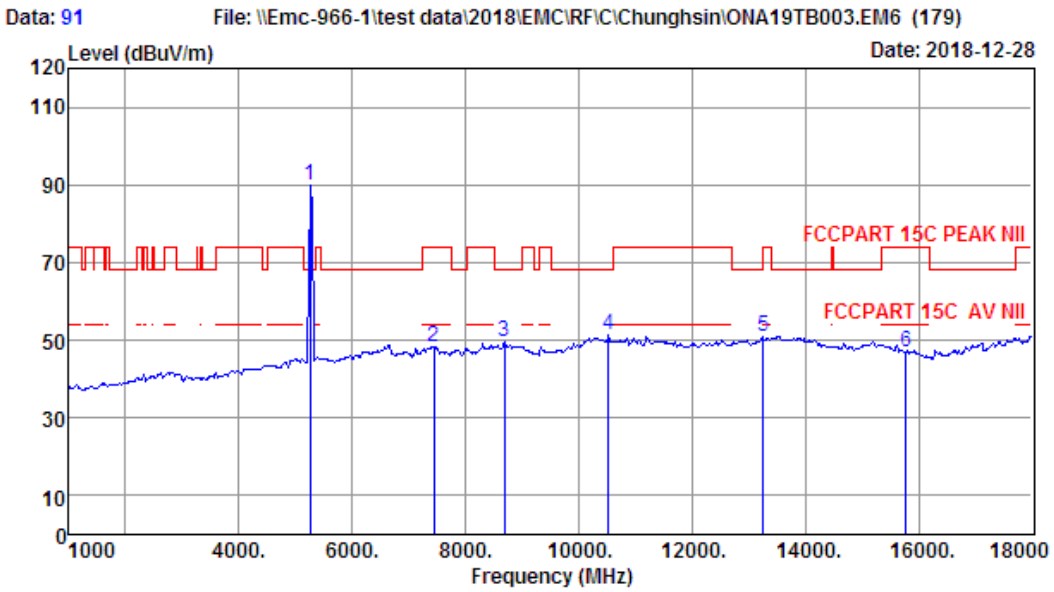


Site no. : 1# 966 Chamber Data no. : 91
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5260MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5260.00 | 32.39 | 4.78 | 34.62 | 87.49 | 90.04 | 68.20 | -21.84 | Peak |
| 2 | 7443.00 | 36.34 | 6.02 | 34.56 | 40.59 | 48.39 | 74.00 | 25.61 | Peak |
| 3 | 8684.00 | 36.50 | 6.28 | 34.57 | 41.40 | 49.61 | 68.20 | 18.59 | Peak |
| 4 | 10520.00 | 39.29 | 6.94 | 34.44 | 39.66 | 51.45 | 68.20 | 16.75 | Peak |
| 5 | 13257.00 | 39.83 | 8.16 | 34.35 | 37.19 | 50.83 | 74.00 | 23.17 | Peak |
| 6 | 15780.00 | 38.36 | 8.77 | 34.15 | 34.10 | 47.08 | 74.00 | 26.92 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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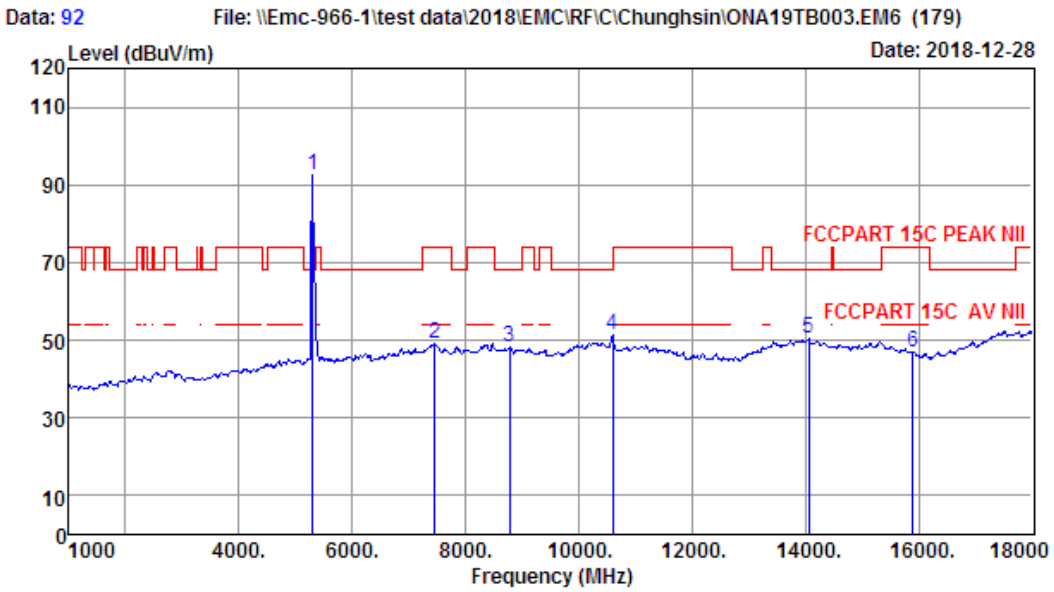


Site no. : 1# 966 Chamber Data no. : 92
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5300MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5300.00 | 32.46 | 4.81 | 34.61 | 89.85 | 92.51 | 68.20 | -24.31 | Peak |
| 2 | 7460.00 | 36.36 | 6.04 | 34.55 | 41.33 | 49.18 | 74.00 | 24.82 | Peak |
| 3 | 8786.00 | 36.50 | 6.35 | 34.58 | 40.14 | 48.41 | 68.20 | 19.79 | Peak |
| 4 | 10600.00 | 39.42 | 7.00 | 34.42 | 39.58 | 51.58 | 68.20 | 16.62 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 35.57 | 50.64 | 68.20 | 17.56 | Peak |
| 6 | 15900.00 | 37.95 | 8.75 | 34.12 | 34.39 | 46.97 | 74.00 | 27.03 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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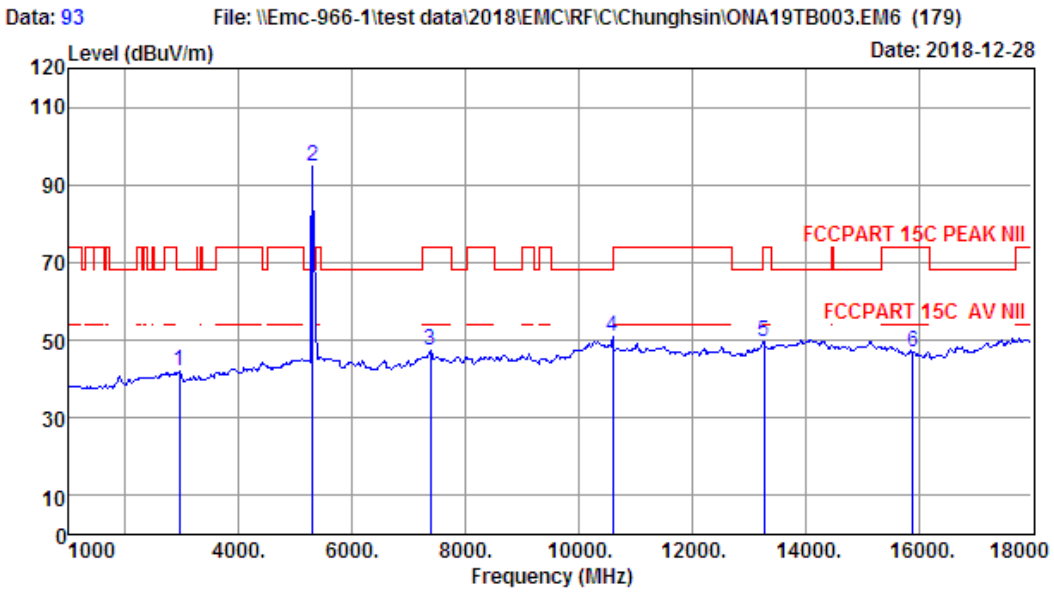


Site no. : 1# 966 Chamber Data no. : 93
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5300MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2955.00 | 28.48 | 3.26 | 34.52 | 44.79 | 42.01 | 68.20 | 26.19 | Peak |
| 2 | 5300.00 | 32.46 | 4.81 | 34.61 | 92.08 | 94.74 | 68.20 | -26.54 | Peak |
| 3 | 7375.00 | 36.26 | 5.95 | 34.56 | 39.64 | 47.29 | 74.00 | 26.71 | Peak |
| 4 | 10600.00 | 39.42 | 7.00 | 34.42 | 38.82 | 50.82 | 68.20 | 17.38 | Peak |
| 5 | 13274.00 | 39.86 | 8.16 | 34.34 | 35.72 | 49.40 | 74.00 | 24.60 | Peak |
| 6 | 15900.00 | 37.95 | 8.75 | 34.12 | 34.55 | 47.13 | 74.00 | 26.87 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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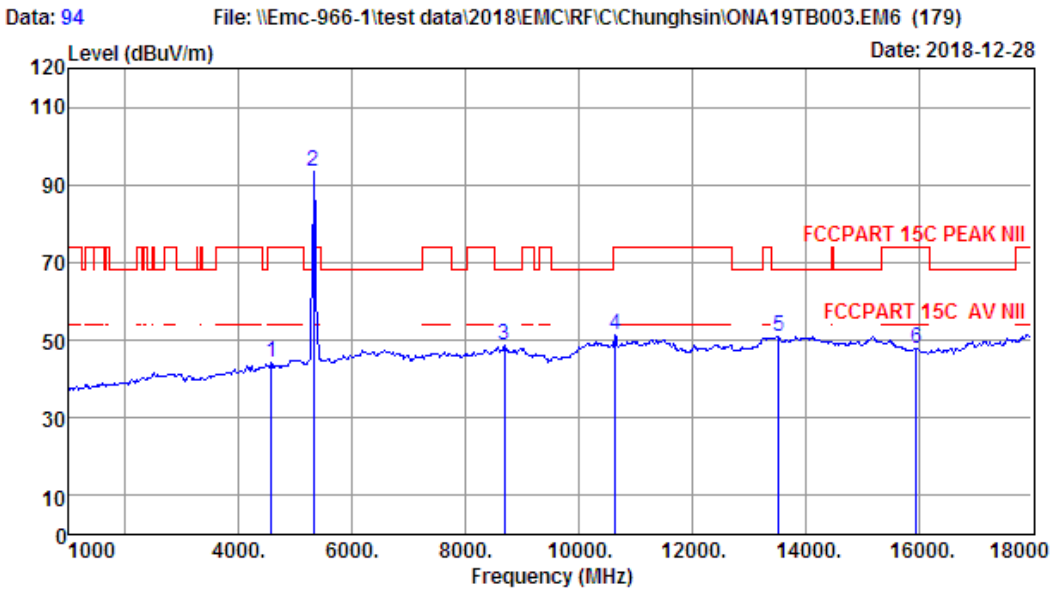


Site no. : 1# 966 Chamber Data no. : 94
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5320MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4570.00 | 30.33 | 4.29 | 34.66 | 44.36 | 44.32 | 74.00 | 29.68 | Peak |
| 2 | 5320.00 | 32.50 | 4.81 | 34.61 | 90.73 | 93.43 | 68.20 | -25.23 | Peak |
| 3 | 8684.00 | 36.50 | 6.28 | 34.57 | 40.28 | 48.49 | 68.20 | 19.71 | Peak |
| 4 | 10640.00 | 39.47 | 7.00 | 34.41 | 39.41 | 51.47 | 74.00 | 22.53 | Peak |
| 5 | 13529.00 | 40.29 | 8.17 | 34.29 | 36.95 | 51.12 | 68.20 | 17.08 | Peak |
| 6 | 15960.00 | 37.72 | 8.74 | 34.11 | 35.58 | 47.93 | 74.00 | 26.07 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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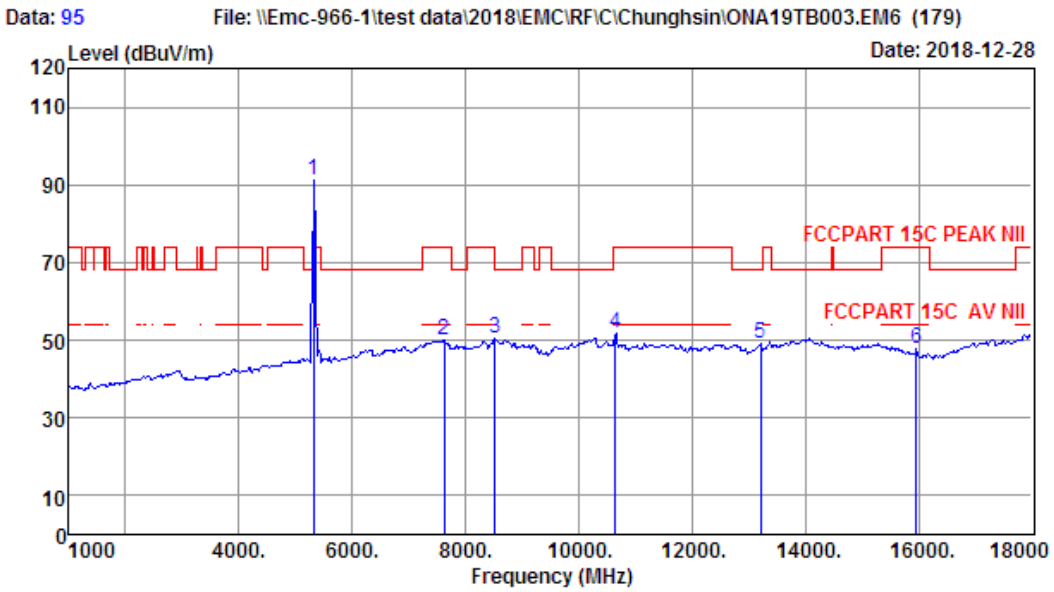


Site no. : 1# 966 Chamber Data no. : 95
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5320MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5320.00 | 32.50 | 4.81 | 34.61 | 88.70 | 91.40 | 68.20 | -23.20 | Peak |
| 2 | 7630.00 | 36.43 | 6.13 | 34.54 | 42.18 | 50.20 | 74.00 | 23.80 | Peak |
| 3 | 8514.00 | 36.50 | 6.26 | 34.55 | 42.30 | 50.51 | 68.20 | 17.69 | Peak |
| 4 | 10640.00 | 39.47 | 7.00 | 34.41 | 39.92 | 51.98 | 74.00 | 22.02 | Peak |
| 5 | 13206.00 | 39.75 | 8.15 | 34.36 | 35.41 | 48.95 | 68.20 | 19.25 | Peak |
| 6 | 15960.00 | 37.72 | 8.74 | 34.11 | 35.30 | 47.65 | 74.00 | 26.35 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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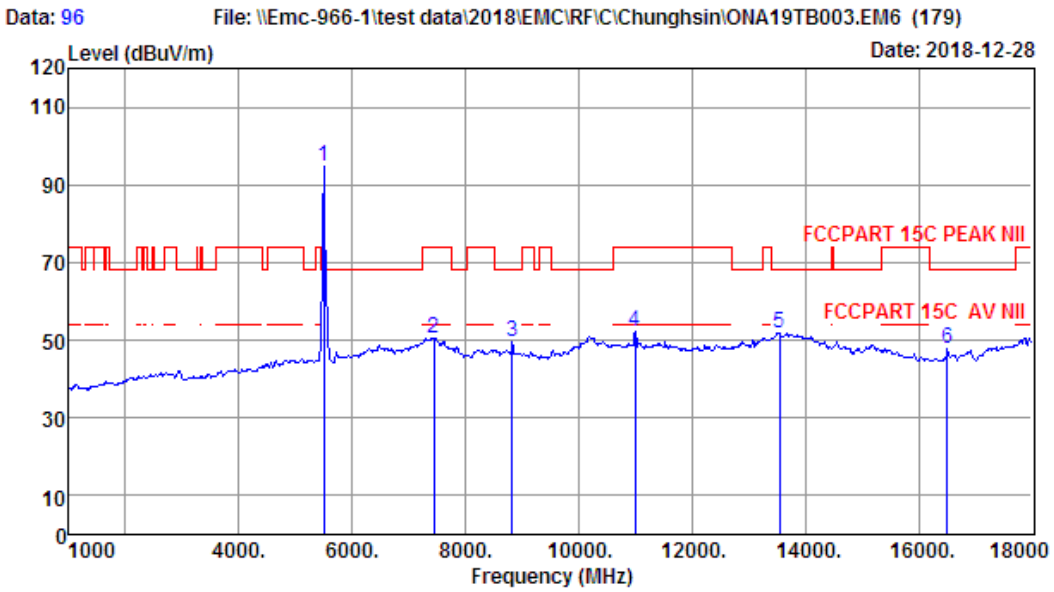


Site no. : 1# 966 Chamber Data no. : 96
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5500MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5500.00 | 32.90 | 4.92 | 34.55 | 91.51 | 94.78 | 68.20 | -26.58 | Peak |
| 2 | 7443.00 | 36.34 | 6.02 | 34.56 | 42.78 | 50.58 | 74.00 | 23.42 | Peak |
| 3 | 8820.00 | 36.50 | 6.37 | 34.58 | 41.33 | 49.62 | 68.20 | 18.58 | Peak |
| 4 | 11000.00 | 40.00 | 7.11 | 34.30 | 39.59 | 52.40 | 74.00 | 21.60 | Peak |
| 5 | 13546.00 | 40.32 | 8.17 | 34.29 | 37.76 | 51.96 | 68.20 | 16.24 | Peak |
| 6 | 16500.00 | 39.48 | 8.90 | 34.15 | 33.57 | 47.80 | 68.20 | 20.40 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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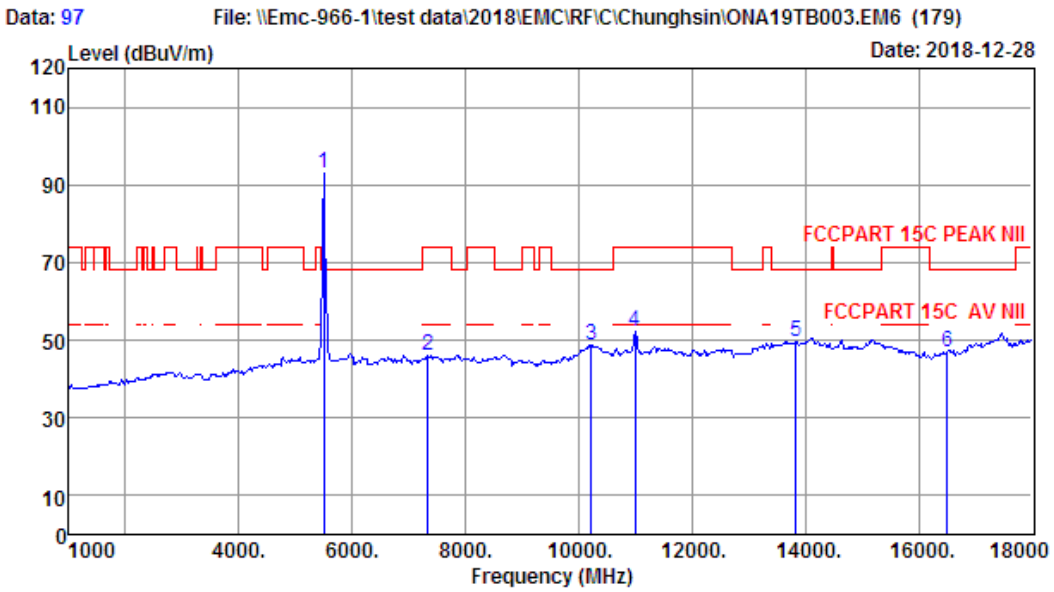


Site no. : 1# 966 Chamber Data no. : 97
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5500MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5500.00 | 32.90 | 4.92 | 34.55 | 89.54 | 92.81 | 68.20 | -24.61 | Peak |
| 2 | 7341.00 | 36.21 | 5.90 | 34.57 | 38.68 | 46.22 | 74.00 | 27.78 | Peak |
| 3 | 10214.00 | 38.83 | 6.81 | 34.54 | 37.72 | 48.82 | 68.20 | 19.38 | Peak |
| 4 | 11000.00 | 40.00 | 7.11 | 34.30 | 39.24 | 52.05 | 74.00 | 21.95 | Peak |
| 5 | 13835.00 | 40.81 | 8.16 | 34.23 | 34.92 | 49.66 | 68.20 | 18.54 | Peak |
| 6 | 16500.00 | 39.48 | 8.90 | 34.15 | 32.90 | 47.13 | 68.20 | 21.07 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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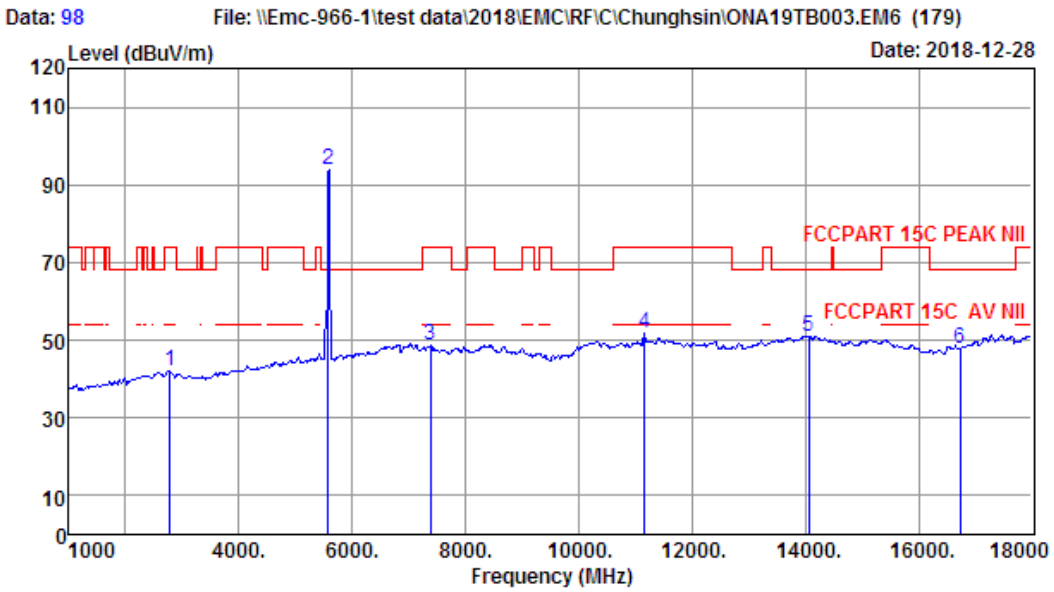


Site no. : 1# 966 Chamber Data no. : 98
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5580MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2785.00 | 28.08 | 3.17 | 34.56 | 45.27 | 41.96 | 74.00 | 32.04 | Peak |
| 2 | 5580.00 | 32.89 | 4.98 | 34.53 | 90.70 | 94.04 | 68.20 | -25.84 | Peak |
| 3 | 7375.00 | 36.26 | 5.95 | 34.56 | 40.88 | 48.53 | 74.00 | 25.47 | Peak |
| 4 | 11160.00 | 39.88 | 7.27 | 34.35 | 38.93 | 51.73 | 74.00 | 22.27 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 35.82 | 50.89 | 68.20 | 17.31 | Peak |
| 6 | 16740.00 | 40.36 | 8.95 | 34.17 | 32.80 | 47.94 | 68.20 | 20.26 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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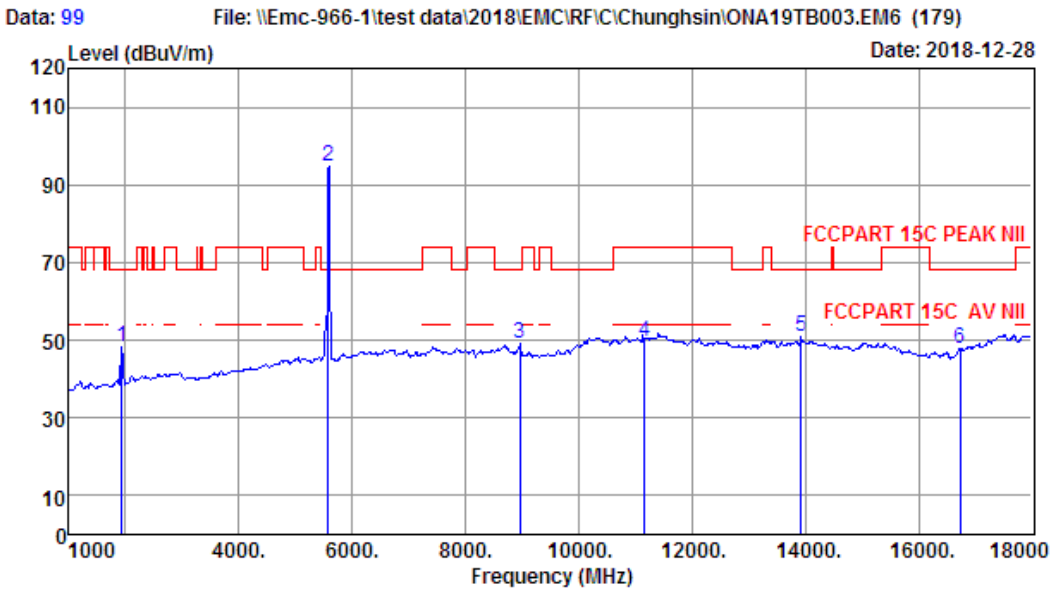


Site no. : 1# 966 Chamber Data no. : 99
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5580MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1935.00 | 26.40 | 2.57 | 34.81 | 54.01 | 48.17 | 68.20 | 20.03 | Peak |
| 2 | 5580.00 | 32.89 | 4.98 | 34.53 | 91.24 | 94.58 | 68.20 | -26.38 | Peak |
| 3 | 8956.00 | 36.50 | 6.42 | 34.59 | 40.75 | 49.08 | 68.20 | 19.12 | Peak |
| 4 | 11160.00 | 39.88 | 7.27 | 34.35 | 36.83 | 49.63 | 74.00 | 24.37 | Peak |
| 5 | 13920.00 | 40.96 | 8.15 | 34.21 | 35.88 | 50.78 | 68.20 | 17.42 | Peak |
| 6 | 16740.00 | 40.36 | 8.95 | 34.17 | 32.58 | 47.72 | 68.20 | 20.48 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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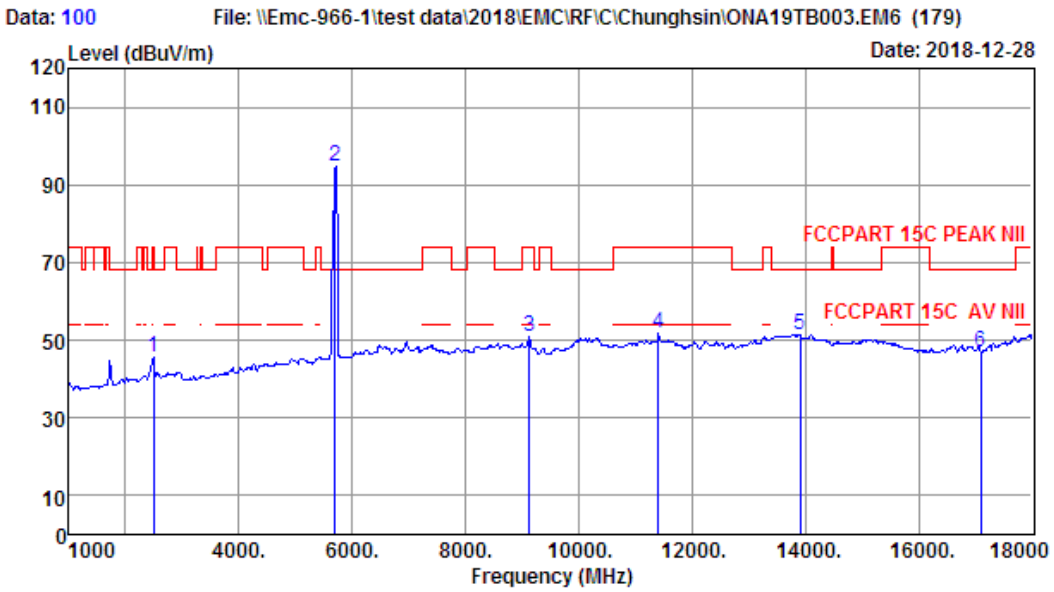


Site no. : 1# 966 Chamber Data no. : 100
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5700MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2496.00 | 27.40 | 2.95 | 34.65 | 50.06 | 45.76 | 74.00 | 28.24 | Peak |
| 2 | 5700.00 | 32.86 | 5.05 | 34.49 | 91.15 | 94.57 | 68.20 | -26.37 | Peak |
| 3 | 9126.00 | 36.74 | 6.54 | 34.60 | 42.21 | 50.89 | 74.00 | 23.11 | Peak |
| 4 | 11400.00 | 39.72 | 7.38 | 34.42 | 39.10 | 51.78 | 74.00 | 22.22 | Peak |
| 5 | 13903.00 | 40.93 | 8.15 | 34.22 | 36.61 | 51.47 | 68.20 | 16.73 | Peak |
| 6 | 17100.00 | 41.99 | 9.15 | 34.21 | 30.17 | 47.10 | 68.20 | 21.10 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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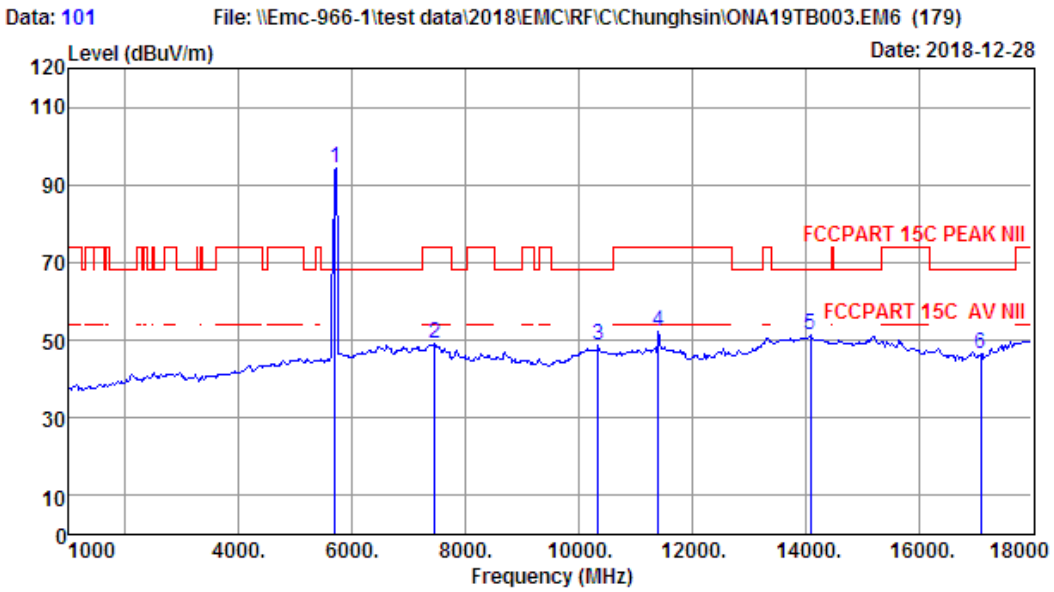


Site no. : 1# 966 Chamber Data no. : 101
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5700MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5700.00 | 32.86 | 5.05 | 34.49 | 90.94 | 94.36 | 68.20 | -26.16 | Peak |
| 2 | 7460.00 | 36.36 | 6.04 | 34.55 | 41.32 | 49.17 | 74.00 | 24.83 | Peak |
| 3 | 10350.00 | 39.03 | 6.81 | 34.49 | 37.19 | 48.54 | 68.20 | 19.66 | Peak |
| 4 | 11400.00 | 39.72 | 7.38 | 34.42 | 39.69 | 52.37 | 74.00 | 21.63 | Peak |
| 5 | 14090.00 | 41.09 | 8.21 | 34.21 | 36.41 | 51.50 | 68.20 | 16.70 | Peak |
| 6 | 17100.00 | 41.99 | 9.15 | 34.21 | 29.43 | 46.36 | 68.20 | 21.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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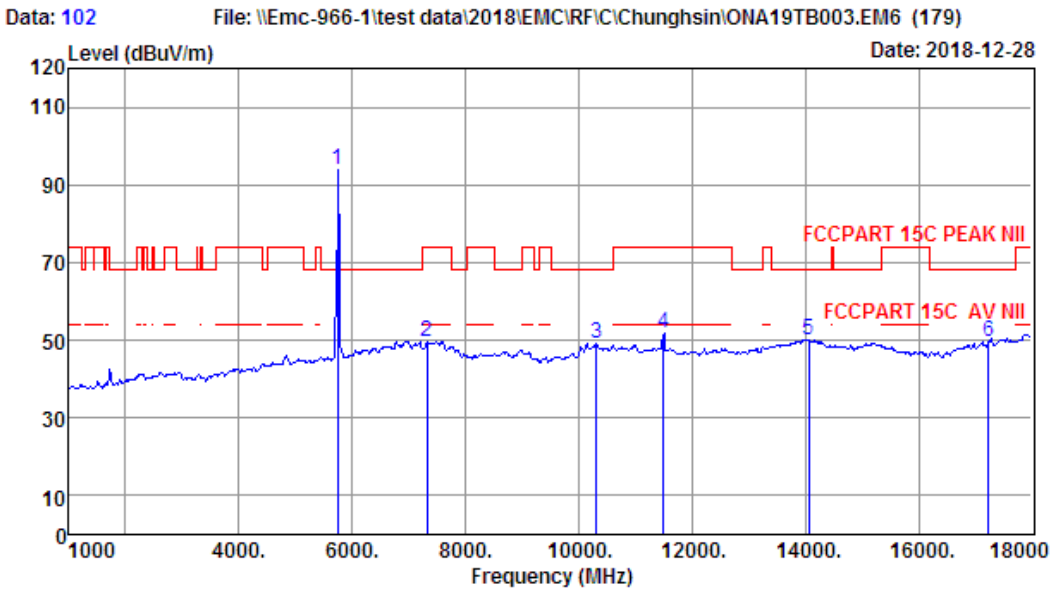


Site no. : 1# 966 Chamber Data no. : 102
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5745MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.00 | 32.85 | 5.08 | 34.47 | 90.51 | 93.97 | 68.20 | -25.77 | Peak |
| 2 | 7324.00 | 36.19 | 5.88 | 34.57 | 42.21 | 49.71 | 74.00 | 24.29 | Peak |
| 3 | 10316.00 | 38.98 | 6.81 | 34.51 | 38.03 | 49.31 | 68.20 | 18.89 | Peak |
| 4 | 11490.00 | 39.66 | 7.42 | 34.45 | 39.07 | 51.70 | 74.00 | 22.30 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 35.05 | 50.12 | 68.20 | 18.08 | Peak |
| 6 | 17235.00 | 42.91 | 9.22 | 34.22 | 31.57 | 49.48 | 68.20 | 18.72 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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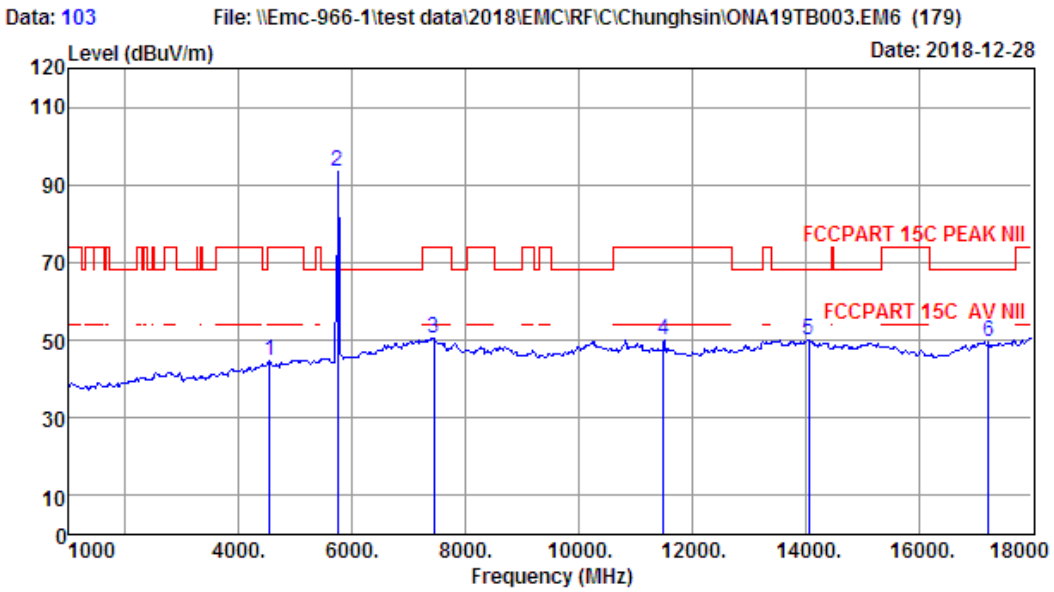


Site no. : 1# 966 Chamber Data no. : 103
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5745MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4536.00 | 30.22 | 4.26 | 34.65 | 44.80 | 44.63 | 74.00 | 29.37 | Peak |
| 2 | 5745.00 | 32.85 | 5.08 | 34.47 | 89.87 | 93.33 | 68.20 | -25.13 | Peak |
| 3 | 7443.00 | 36.34 | 6.02 | 34.56 | 42.81 | 50.61 | 74.00 | 23.39 | Peak |
| 4 | 11490.00 | 39.66 | 7.42 | 34.45 | 37.35 | 49.98 | 74.00 | 24.02 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 34.92 | 49.99 | 68.20 | 18.21 | Peak |
| 6 | 17235.00 | 42.91 | 9.22 | 34.22 | 31.75 | 49.66 | 68.20 | 18.54 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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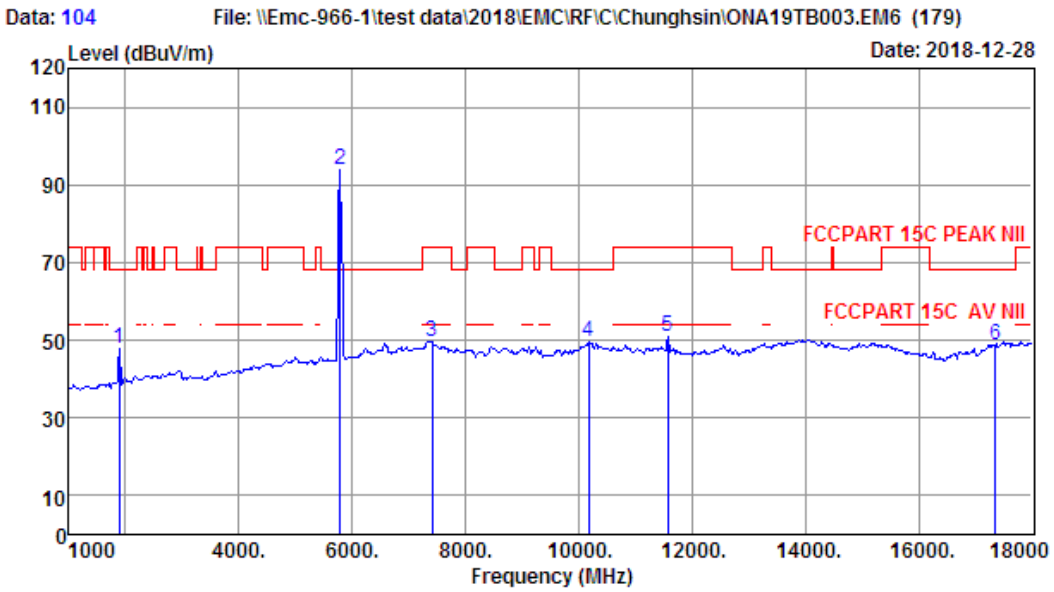


```
Site no.      : 1# 966 Chamber              Data no.  : 104
Dis. / Ant.   : 3m   9120D 1-18G            Ant. pol. : VERTICAL
Limit         : FCCPART 15C PEAK NII
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Seven
EUT           : 10.1" Android Tablet
Power         : DC 5V From Adapter Input AC 120V/60Hz
M/N           : ONA19TB003
Test Mode     : IEEE 802.11a TX 5785MHz
```

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1884.00 | 26.17 | 2.61 | 34.81 | 53.74 | 47.71 | 68.20 | 20.49 | Peak |
| 2 | 5785.00 | 32.84 | 5.12 | 34.46 | 90.34 | 93.84 | 68.20 | -25.64 | Peak |
| 3 | 7409.00 | 36.30 | 5.99 | 34.56 | 41.78 | 49.51 | 74.00 | 24.49 | Peak |
| 4 | 10180.00 | 38.78 | 6.81 | 34.55 | 38.36 | 49.40 | 68.20 | 18.80 | Peak |
| 5 | 11570.00 | 39.60 | 7.49 | 34.47 | 38.24 | 50.86 | 74.00 | 23.14 | Peak |
| 6 | 17355.00 | 43.72 | 9.29 | 34.24 | 30.10 | 48.87 | 68.20 | 19.33 | Peak |

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

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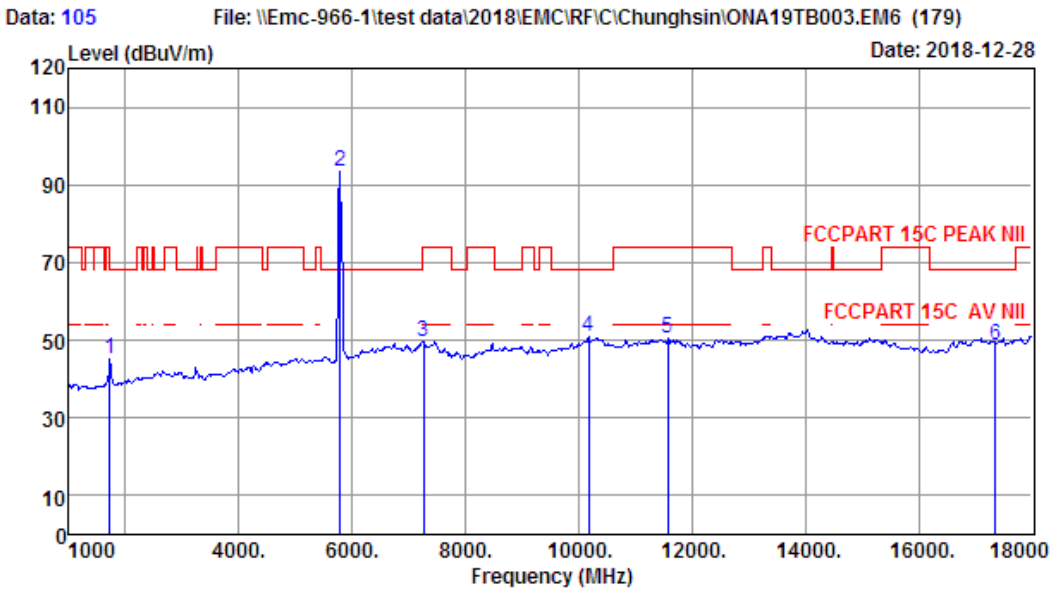


Site no. : 1# 966 Chamber Data no. : 105
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5785MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1714.00 | 25.55 | 2.44 | 34.83 | 51.91 | 45.07 | 68.20 | 23.13 | Peak |
| 2 | 5785.00 | 32.84 | 5.12 | 34.46 | 90.01 | 93.51 | 68.20 | -25.31 | Peak |
| 3 | 7256.00 | 36.11 | 5.83 | 34.57 | 42.37 | 49.74 | 74.00 | 24.26 | Peak |
| 4 | 10180.00 | 38.78 | 6.81 | 34.55 | 39.66 | 50.70 | 68.20 | 17.50 | Peak |
| 5 | 11570.00 | 39.60 | 7.49 | 34.47 | 37.91 | 50.53 | 74.00 | 23.47 | Peak |
| 6 | 17355.00 | 43.72 | 9.29 | 34.24 | 30.16 | 48.93 | 68.20 | 19.27 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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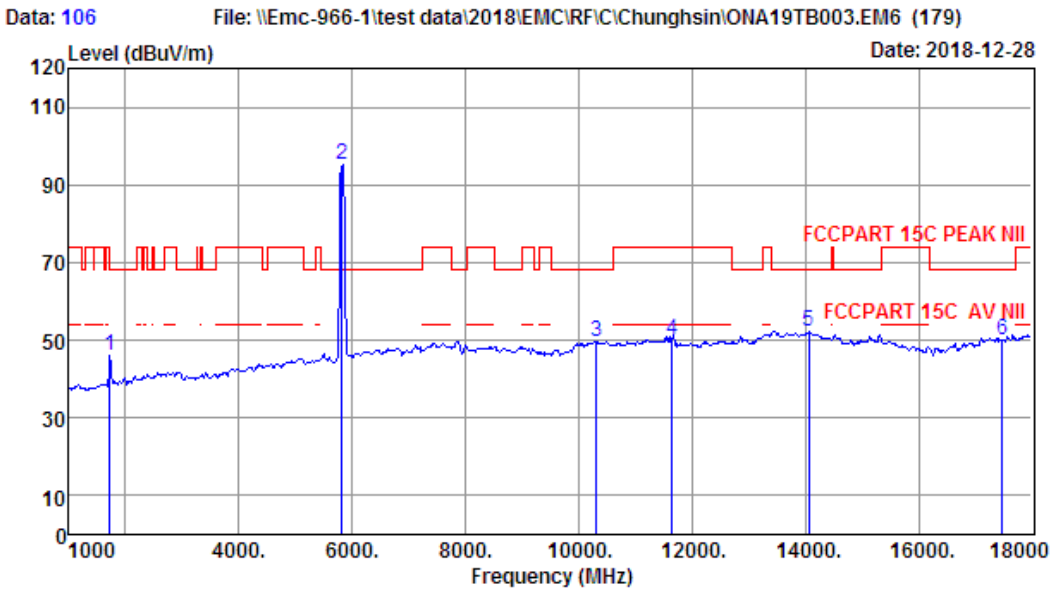


Site no. : 1# 966 Chamber Data no. : 106
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5825MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1714.00 | 25.55 | 2.44 | 34.83 | 52.99 | 46.15 | 68.20 | 22.05 | Peak |
| 2 | 5825.00 | 32.83 | 5.18 | 34.45 | 91.71 | 95.27 | 68.20 | -27.07 | Peak |
| 3 | 10316.00 | 38.98 | 6.81 | 34.51 | 38.30 | 49.58 | 68.20 | 18.62 | Peak |
| 4 | 11650.00 | 39.55 | 7.53 | 34.49 | 37.57 | 50.16 | 74.00 | 23.84 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 37.35 | 52.42 | 68.20 | 15.78 | Peak |
| 6 | 17475.00 | 44.53 | 9.39 | 34.25 | 30.42 | 50.09 | 68.20 | 18.11 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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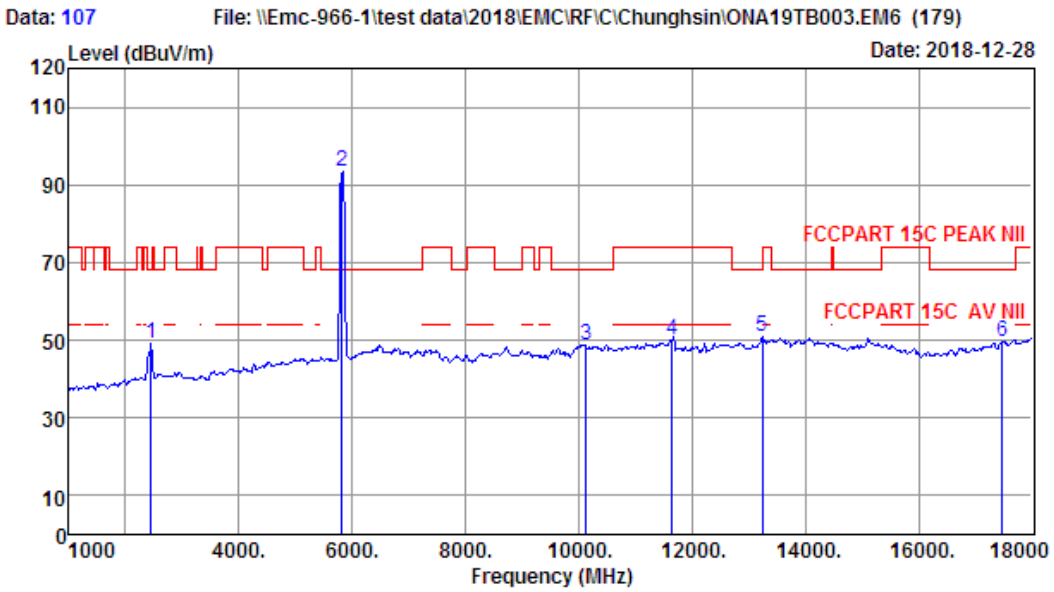


Site no. : 1# 966 Chamber Data no. : 107
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11a TX 5825MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2445.00 | 27.33 | 2.90 | 34.67 | 53.57 | 49.13 | 68.20 | 19.07 | Peak |
| 2 | 5825.00 | 32.83 | 5.18 | 34.45 | 89.80 | 93.36 | 68.20 | -25.16 | Peak |
| 3 | 10129.00 | 38.70 | 6.80 | 34.56 | 37.85 | 48.79 | 68.20 | 19.41 | Peak |
| 4 | 11650.00 | 39.55 | 7.53 | 34.49 | 37.54 | 50.13 | 74.00 | 23.87 | Peak |
| 5 | 13240.00 | 39.80 | 8.16 | 34.35 | 37.29 | 50.90 | 68.20 | 17.30 | Peak |
| 6 | 17475.00 | 44.53 | 9.39 | 34.25 | 29.93 | 49.60 | 68.20 | 18.60 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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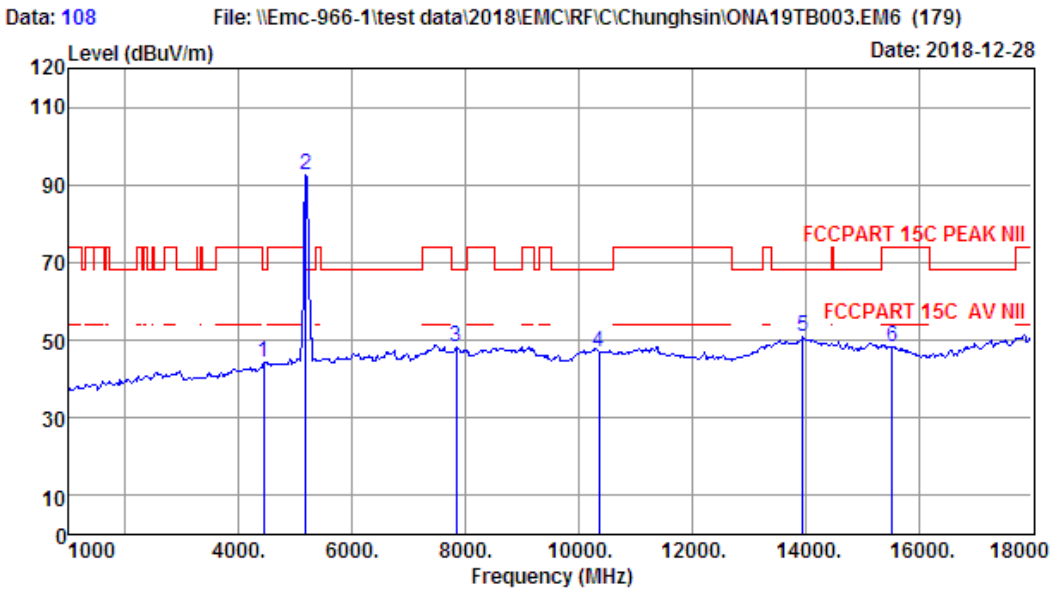


Site no. : 1# 966 Chamber Data no. : 108
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11n HT20 TX 5180MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4434.00 | 29.99 | 4.27 | 34.64 | 44.80 | 44.42 | 68.20 | 23.78 | Peak |
| 2 | 5180.00 | 32.20 | 4.71 | 34.65 | 90.24 | 92.50 | 68.20 | -24.30 | Peak |
| 3 | 7834.00 | 36.47 | 6.11 | 34.52 | 40.21 | 48.27 | 68.20 | 19.93 | Peak |
| 4 | 10360.00 | 39.06 | 6.81 | 34.49 | 35.76 | 47.14 | 68.20 | 21.06 | Peak |
| 5 | 13954.00 | 41.01 | 8.15 | 34.21 | 35.85 | 50.80 | 68.20 | 17.40 | Peak |
| 6 | 15540.00 | 39.18 | 8.65 | 34.19 | 34.45 | 48.09 | 74.00 | 25.91 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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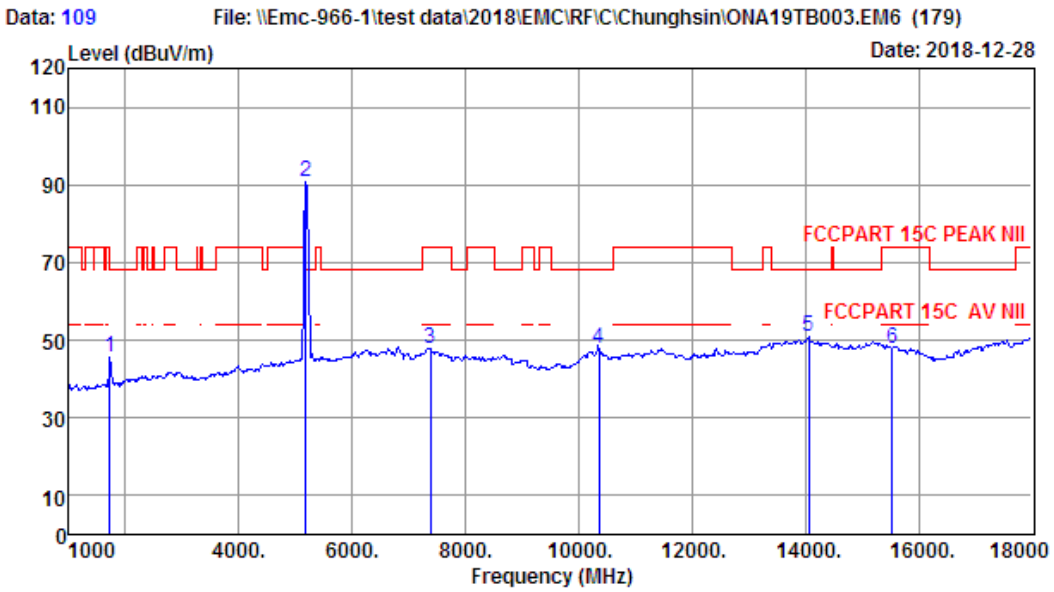


Site no. : 1# 966 Chamber Data no. : 109
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11n HT20 TX 5180MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1714.00 | 25.55 | 2.44 | 34.83 | 52.54 | 45.70 | 68.20 | 22.50 | Peak |
| 2 | 5180.00 | 32.20 | 4.71 | 34.65 | 88.36 | 90.62 | 68.20 | -22.42 | Peak |
| 3 | 7375.00 | 36.26 | 5.95 | 34.56 | 40.18 | 47.83 | 74.00 | 26.17 | Peak |
| 4 | 10360.00 | 39.06 | 6.81 | 34.49 | 36.40 | 47.78 | 68.20 | 20.42 | Peak |
| 5 | 14056.00 | 41.09 | 8.19 | 34.21 | 35.88 | 50.95 | 68.20 | 17.25 | Peak |
| 6 | 15540.00 | 39.18 | 8.65 | 34.19 | 34.25 | 47.89 | 74.00 | 26.11 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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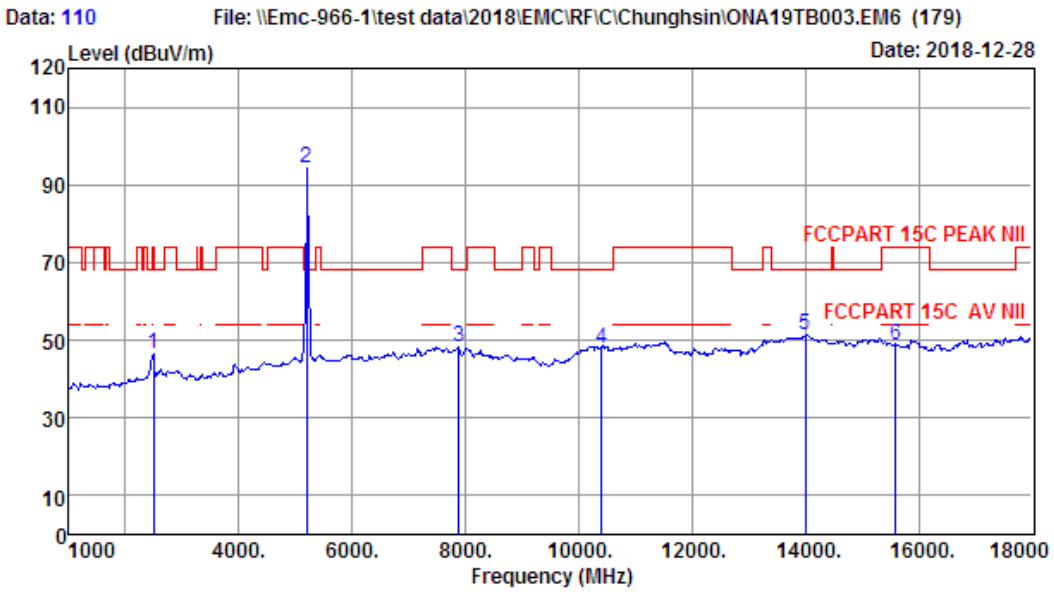


Site no. : 1# 966 Chamber Data no. : 110
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11n HT20 TX 5200MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2496.00 | 27.40 | 2.95 | 34.65 | 50.58 | 46.28 | 74.00 | 27.72 | Peak |
| 2 | 5200.00 | 32.24 | 4.72 | 34.64 | 91.85 | 94.17 | 68.20 | -25.97 | Peak |
| 3 | 7885.00 | 36.48 | 6.16 | 34.51 | 40.21 | 48.34 | 68.20 | 19.86 | Peak |
| 4 | 10400.00 | 39.11 | 6.83 | 34.48 | 36.34 | 47.80 | 68.20 | 20.40 | Peak |
| 5 | 14005.00 | 41.10 | 8.17 | 34.20 | 36.20 | 51.27 | 68.20 | 16.93 | Peak |
| 6 | 15600.00 | 38.95 | 8.69 | 34.18 | 35.37 | 48.83 | 74.00 | 25.17 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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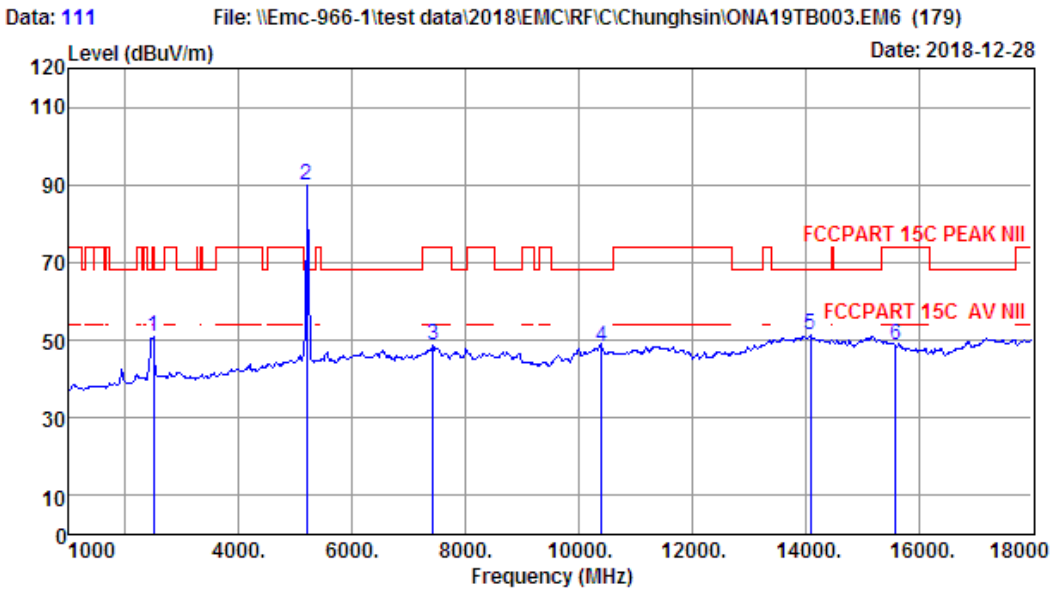


Site no. : 1# 966 Chamber Data no. : 111
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11n HT20 TX 5200MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2496.00 | 27.40 | 2.95 | 34.65 | 55.01 | 50.71 | 74.00 | 23.29 | Peak |
| 2 | 5200.00 | 32.24 | 4.72 | 34.64 | 87.74 | 90.06 | 68.20 | -21.86 | Peak |
| 3 | 7426.00 | 36.32 | 6.01 | 34.56 | 40.87 | 48.64 | 74.00 | 25.36 | Peak |
| 4 | 10400.00 | 39.11 | 6.83 | 34.48 | 37.01 | 48.47 | 68.20 | 19.73 | Peak |
| 5 | 14090.00 | 41.09 | 8.21 | 34.21 | 36.30 | 51.39 | 68.20 | 16.81 | Peak |
| 6 | 15600.00 | 38.95 | 8.69 | 34.18 | 35.21 | 48.67 | 74.00 | 25.33 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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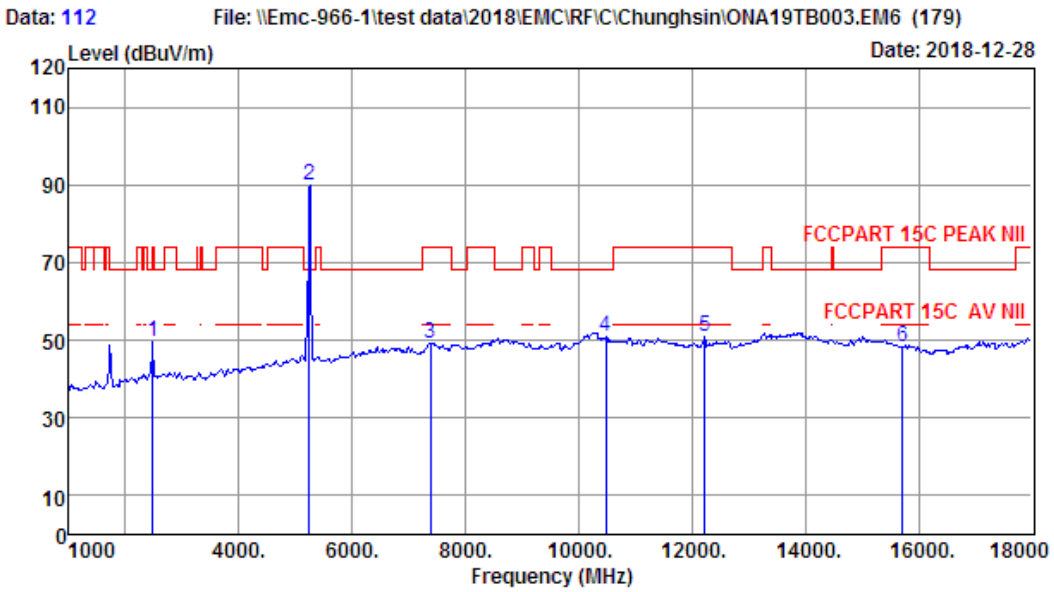


Site no. : 1# 966 Chamber Data no. : 112
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 10.1" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB003
Test Mode : IEEE 802.11n HT20 TX 5240MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2479.00 | 27.38 | 2.93 | 34.66 | 53.76 | 49.41 | 68.20 | 18.79 | Peak |
| 2 | 5240.00 | 32.31 | 4.75 | 34.63 | 87.32 | 89.75 | 68.20 | -21.55 | Peak |
| 3 | 7375.00 | 36.26 | 5.95 | 34.56 | 41.69 | 49.34 | 74.00 | 24.66 | Peak |
| 4 | 10480.00 | 39.24 | 6.90 | 34.46 | 39.13 | 50.81 | 68.20 | 17.39 | Peak |
| 5 | 12220.00 | 39.32 | 7.92 | 34.55 | 38.15 | 50.84 | 74.00 | 23.16 | Peak |
| 6 | 15720.00 | 38.54 | 8.77 | 34.16 | 35.24 | 48.39 | 74.00 | 25.61 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.