# MEASUREMENT REPORT

## FCC PART 15 Subpart E WLAN 802.11a/n/ac/ax

Report No.: S20241118761701E07
Issue Date: 03-13-2025

| | |
|---|---|
| **Applicant:** | Wallys Communications Technologies Co.,Ltd |
| **Address:** | Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R |
| **FCC ID:** | 2AG7VDR5018S |
| **Product:** | Wireless Router Module |
| **Model No.:** | DR5018S, DR5018S-DB, DR5018S-5G |
| **FCC Classification:** | Unlicensed National Information Infrastructure (UNII) |
| **FCC Rule Part(s):** | Part 15 Subpart E (Section 15.407) |
| **Test Procedure(s):** | ANSI C63.10-2013, KDB 789033 D02v02r01, KDB 662911 D01v02r01 |
| **Item Receipt date:** | Nov 21, 2024 |
| **Test Date:** | Nov 26 2024 ~ Jan 07, 2025 |

Compiled By: Stone Zhang
(Stone Zhang)
Senior Test Engineer

Approved By: Line Chen
(Line Chen)
Engineer Manager

FANGGUANG INSPECTION & TESTING CO.,LTD.

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch
The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

# Revision History

| Report No. | Version | Description | Issue Date |
|---|---|---|---|
| S20241118761701E07 | Rev. 01 | / | 03-13-2025 |
| | | | |

# CONTENTS

Description Page

§2.1033 General Information ..... 6

1. INTRODUCTION ..... 7
   - 1.1. Scope ..... 7
   - 1.2. Fangguang Test Location ..... 7
2. PRODUCT INFORMATION ..... 8
   - 2.1. Equipment Description ..... 8
   - 2.2. Product Specification Subjective to this Report ..... 8
   - 2.3. Operation Frequencies and Channel List ..... 10
   - 2.4. Description of Available Antennas ..... 11
   - 2.5. Device Capabilities ..... 12
   - 2.6. Test Software ..... 17
   - 2.7. Test Mode ..... 17
   - 2.8. Test Configuration ..... 18
   - 2.9. EUT Photo ..... 18
   - 2.10. EMI Suppression Device(s)/Modifications ..... 18
   - 2.11. Labeling Requirements ..... 18
3. DESCRIPTION OF TEST ..... 19
   - 3.1. Evaluation Procedure ..... 19
   - 3.2. AC Line Conducted Emissions ..... 19
   - 3.3. Radiated Emissions ..... 20
4. ANTENNA REQUIREMENTS ..... 21
5. TEST EQUIPMENT CALIBRATION DATE ..... 22
6. MEASUREMENT UNCERTAINTY ..... 23
7. TEST RESULT ..... 24
   - 7.1. Summary ..... 24
   - 7.2. 26dB Bandwidth Measurement and 99% Bandwidth ..... 25
   - 7.2.1. Test Limit ..... 25
   - 7.2.2. Test Procedure used ..... 25
   - 7.2.3. Test Setting ..... 25
   - 7.2.4. Test Setup ..... 25
   - 7.2.5. Test Result ..... 26
   - 7.3. 6dB Bandwidth Measurement ..... 31
   - 7.3.1. Test Limit ..... 31
   - 7.3.2. Test Procedure used ..... 31
   - 7.3.3. Test Setting ..... 31
   - 7.3.4. Test Setup ..... 31

7.3.5. Test Result ..... 32
7.4. Output Power Measurement ..... 35
7.4.1. Test Limit ..... 35
7.4.2. Test Procedure Used ..... 37
7.4.3. Test Setting ..... 37
7.4.4. Test Setup ..... 37
7.4.5. Test Rate Assessment ..... 38
7.4.6. Test Result ..... 39
7.5. Transmit Power Control ..... 45
7.5.1. Test Limit ..... 45
7.5.2. Test Procedure Used ..... 45
7.5.3. Test Setting ..... 45
7.5.4. Test Setup ..... 45
7.5.5. Test Result ..... 45
7.6. Power Spectral Density Measurement ..... 46
7.6.1. Test Limit ..... 46
7.6.2. Test Procedure Used ..... 46
7.6.3. Test Setting ..... 46
7.6.4. Test Setup ..... 47
7.6.5. Test Result ..... 48
7.7. Frequency Stability Measurement ..... 54
7.7.1. Test Limit ..... 54
7.7.2. Test Procedure Used ..... 54
7.7.3. Test Setup ..... 54
7.7.4. Test Result ..... 55
7.8. Radiated Spurious Emission Measurement ..... 109
7.8.1. Test Limit ..... 109
7.8.2. Test Procedure Used ..... 109
7.8.3. Test Setting ..... 110
7.8.4. Test Setup ..... 110
7.8.5. Test Result ..... 113
7.9. Radiated Restricted Band Edge Measurement ..... 220
7.9.1. Test Limit ..... 220
7.9.2. Test Result ..... 224
7.10. AC Conducted Emissions Measurement ..... 406
7.10.1. Test Limit ..... 406
7.10.2. Test Procedure ..... 406
7.10.3. Test Setup ..... 407

7.10.4. Test Result ..... 407
8. CONCLUSION ..... 408

## §2.1033 General Information

| | |
|---|---|
| **Applicant:** | Wallys Communications Technologies Co.,Ltd |
| **Applicant Address:** | Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R |
| **Manufacturer:** | Wallys Communications Technologies Co.,Ltd |
| **Manufacturer Address:** | Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R |
| **Test Site:** | Fangguang Inspection & Testing Co. Ltd |
| **LAB ID:** | CN5037 |
| **Test Site Address:** | No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China |
| **FCC Rule Part(s):** | Part 15 Subpart E (15.407) |
| **FCC ID:** | 2AG7VDR5018S |
| **Test Device Serial No.:** | S/N.: /<br>☐ Production ☒ Pre-Production ☐ Engineering |
| **FCC Classification:** | Unlicensed National Information Infrastructure (UNII) |

# 1. INTRODUCTION

## 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

## 1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

# 2. PRODUCT INFORMATION

## 2.1. Equipment Description

<table>
<tr><td>Product Name:</td><td>Wireless Router Module</td></tr>
<tr><td>Model Name:</td><td>DR5018S</td></tr>
<tr><td>Additional Model:</td><td>DR5018S-DB, DR5018S-5G</td></tr>
<tr><td>Model Description:</td><td>
<table>
<tr><th></th><th>P/N</th><th>Radio</th><th>Frequency</th></tr>
<tr><td>1</td><td>DR5018S-5G</td><td>5Ghz</td><td>1G Ethernet & POE</td></tr>
<tr><td>2</td><td>DR5018S</td><td>2.4Ghz 5Ghz</td><td>2.5G+1G Ethernet & POE</td></tr>
<tr><td>3</td><td>DR5018S-DB</td><td>2.4Ghz 5Ghz</td><td>1G Ethernet & POE</td></tr>
</table>
DR5018S-5G has 5G radio and 1x1G ethernet port and support PD feature<br>
DR5018S has 2.4G,5G radio and 1x2.5G+1x1G ethernet ports and all support PD feature<br>
DR5018S-DB has 2.4G,5G radio and 1x1G ethernet port and support PD feature
</td></tr>
<tr><td>Trade Mark:</td><td>/</td></tr>
<tr><td>Input Voltage Range:</td><td>DC 48V</td></tr>
<tr><td>Wi-Fi Specification:</td><td>802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80/ax-HE20/ax-HE40/ax-HE80</td></tr>
</table>

Note:

1. There are three types of antennas for the Wireless Router Module. The antennas are DR5G15, DR5G17 and DR5G19.
2. This information is provided by the Customer and its authenticity is the responsibility of the Customer.

## 2.2. Product Specification Subjective to this Report

| | |
|---|---|
| Frequency Range: | For 802.11a/n-HT20/ac-VHT20/ax-HE20:<br>5180~5240MHz, 5745~5825MHz<br>For 802.11n-HT40/ac-VHT40/ax-HE40:<br>5190~5230MHz, 5755~5795MHz<br>For 802.11ac-VHT80/ax-HE80:<br>5210MHz, 5775MHz |
| Type of Modulation: | 802.11a/n/ac: OFDM/BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM<br>802.11ax: OFDMA |
| Data Rate: | 802.11a: 6/9/12/18/24/36/48/54Mbps<br>802.11n: MCS0~MCS7<br>802.11ac: MCS0~MCS9<br>802.11ax: MCS0~MCS11 |
| Antenna Type: | Array Antenna |

| | |
|---|---|
| Antenna Gain: | DR5G15 Antenna: Ant1 15.54dBi, Ant2 15.54dBi<br>DR5G17 Antenna: Ant1 17.95dBi, Ant2 17.95dBi<br>DR5G19 Antenna: Ant1 19.81dBi, Ant2 19.81dBi |

## 2.3. Operation Frequencies and Channel List

802.11a/n-HT20/ac-VHT20/ax-HE20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| 36 | 5180 MHz | 40 | 5200 MHz | 44 | 5220 MHz |
| 48 | 5240 MHz | 149 | 5745 MHz | 153 | 5765 MHz |
| 157 | 5785 MHz | 161 | 5805 MHz | 165 | 5825 MHz |

802.11n-HT40/ac-VHT40/ax-HE40

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| 38 | 5190 MHz | 46 | 5230 MHz | 151 | 5755 MHz |
| 159 | 5795 MHz | -- | -- | -- | -- |

802.11ac-VHT80/ax-HE80

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| 42 | 5210 MHz | 155 | 5775 MHz | -- | -- |

## 2.4. Description of Available Antennas

1) For Antenna DR5G15

| Antenna | Frequency Band (GHz) | Product Number | Tx Paths | Antenna |
|---|---|---|---|---|
| Array Antenna | 5 | Wireless Router Module | 2 | Ant 1+Ant 2 |

| Antenna | Frequency Band (MHz) | Tx Paths | Per Chain Max Antenna Gain (dBi) | | Beam Forming Directional Gain (dBi) | Directional Gain (dBi) |
|---|---|---|---|---|---|---|
| | | | Ant 0 | Ant 1 | | |
| WIFI Ant 1+Ant 2 | 5150 ~ 5250<br>5725 ~ 5850 | 2 | 15.54 | 15.54 | Nonsupport | 18.55 |

2) For Antenna DR5G17

| Antenna | Frequency Band (GHz) | Product Number | Tx Paths | Antenna |
|---|---|---|---|---|
| Array Antenna | 5 | Wireless Router Module | 2 | Ant 1+Ant 2 |

| Antenna | Frequency Band (MHz) | Tx Paths | Per Chain Max Antenna Gain (dBi) | | Beam Forming Directional Gain (dBi) | Directional Gain (dBi) |
|---|---|---|---|---|---|---|
| | | | Ant 0 | Ant 1 | | |
| WIFI Ant 1+Ant 2 | 5150 ~ 5250<br>5725 ~ 5850 | 2 | 17.95 | 17.95 | Nonsupport | 20.96 |

3) For Antenna DR5G19

| Antenna | Frequency Band (GHz) | Product Number | Tx Paths | Antenna |
|---|---|---|---|---|
| Array Antenna | 5 | Wireless Router Module | 2 | Ant 1+Ant 2 |

| Antenna | Frequency Band (MHz) | Tx Paths | Per Chain Max Antenna Gain (dBi) | | Beam Forming Directional Gain (dBi) | Directional Gain (dBi) |
|---|---|---|---|---|---|---|
| | | | Ant 0 | Ant 1 | | |
| WIFI Ant 1+Ant 2 | 5150 ~ 5250<br>5725 ~ 5850 | 2 | 19.81 | 19.81 | Nonsupport | 22.82 |

Note：

Unequal Antenna gains, with equal transmit powers. For Antenna gains given by $G_1$, $G_2$, …, $G_N$ dBi transmit signals are correlated, then

- Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Directional Gain(5G) = $10*\log[(10^{15.54/20} + 10^{15.54/20})^2/2]$ = 18.55 dBi
- Directional Gain(5G) = $10*\log[(10^{17.95/20} + 10^{17.95/20})^2/2]$ = 20.96 dBi
- Directional Gain(5G) = $10*\log[(10^{19.80/20} + 10^{19.80/20})^2/2]$ = 22.82 dBi

## 2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS)&5GHz WLAN (UNII)

**Note:** 5GHz (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz, and detector = Peak per the guidance of Section B) 2) b) of KDB 789033 D02v02r01. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

| Test Mode | Antenna | Frequency (MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 2.09 | 2.11 | 99.05 |
| | Ant2 | 5180 | 2.09 | 2.11 | 99.05 |
| | Ant1 | 5200 | 2.09 | 2.11 | 99.05 |
| | Ant2 | 5200 | 2.09 | 2.11 | 99.05 |
| | Ant1 | 5240 | 2.09 | 2.11 | 99.05 |
| | Ant2 | 5240 | 2.09 | 2.10 | 99.52 |
| | Ant1 | 5745 | 2.10 | 2.12 | 99.06 |
| | Ant2 | 5745 | 2.10 | 2.11 | 99.53 |
| | Ant1 | 5785 | 2.10 | 2.11 | 99.53 |
| | Ant2 | 5785 | 2.09 | 2.11 | 99.05 |
| | Ant1 | 5825 | 2.10 | 2.11 | 99.53 |
| | Ant2 | 5825 | 2.09 | 2.12 | 98.58 |
| 11N20SISO | Ant1 | 5180 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5180 | 5.42 | 5.45 | 99.45 |
| | Ant1 | 5200 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5200 | 5.42 | 5.44 | 99.63 |

| | | | | | |
|---|---|---|---|---|---|
| | Ant1 | 5240 | 5.44 | 5.45 | 99.82 |
| | Ant2 | 5240 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5745 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5745 | 5.42 | 5.45 | 99.45 |
| | Ant1 | 5785 | 5.43 | 5.45 | 99.63 |
| | Ant2 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5825 | 5.42 | 5.45 | 99.45 |
| | Ant2 | 5825 | 5.42 | 5.45 | 99.45 |
| 11N40SISO | Ant1 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5190 | 5.42 | 5.43 | 99.82 |
| | Ant1 | 5230 | 5.42 | 5.44 | 99.63 |
| | Ant2 | 5230 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5755 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5755 | 5.43 | 5.44 | 99.82 |
| | Ant1 | 5795 | 5.43 | 5.45 | 99.63 |
| | Ant2 | 5795 | 5.43 | 5.45 | 99.63 |
| 11AC20SISO | Ant1 | 5180 | 5.42 | 5.44 | 99.63 |
| | Ant2 | 5180 | 5.43 | 5.44 | 99.82 |
| | Ant1 | 5200 | 5.42 | 5.45 | 99.45 |
| | Ant2 | 5200 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5240 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5240 | 5.42 | 5.44 | 99.63 |
| | Ant1 | 5745 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5745 | 5.43 | 5.45 | 99.63 |
| | Ant1 | 5785 | 5.42 | 5.45 | 99.45 |
| | Ant2 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5825 | 5.43 | 5.45 | 99.63 |
| | Ant2 | 5825 | 5.44 | 5.45 | 99.82 |
| 11AC40SISO | Ant1 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5230 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5230 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5755 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5755 | 5.43 | 5.44 | 99.82 |
| | Ant1 | 5795 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5795 | 5.43 | 5.45 | 99.63 |
| 11AC80SISO | Ant1 | 5210 | 5.43 | 5.45 | 99.63 |

| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5210 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5775 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5775 | 27.00 | 27.00 | 100.00 |
| 11AX20SISO | Ant1 | 5180 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5180 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5200 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5200 | 5.43 | 5.46 | 99.45 |
| | Ant1 | 5240 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5240 | 5.43 | 5.46 | 99.45 |
| | Ant1 | 5745 | 5.45 | 5.46 | 99.82 |
| | Ant2 | 5745 | 5.45 | 5.46 | 99.82 |
| | Ant1 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5785 | 5.44 | 5.46 | 99.63 |
| | Ant1 | 5825 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5825 | 5.44 | 5.46 | 99.63 |
| 11AX40SISO | Ant1 | 5190 | 5.44 | 5.46 | 99.63 |
| | Ant2 | 5190 | 5.43 | 5.46 | 99.45 |
| | Ant1 | 5230 | 5.44 | 5.46 | 99.63 |
| | Ant2 | 5230 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5755 | 5.43 | 5.46 | 99.45 |
| | Ant2 | 5755 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5795 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5795 | 5.45 | 5.47 | 99.63 |
| 11AX80SISO | Ant1 | 5210 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5210 | 5.44 | 5.46 | 99.63 |
| | Ant1 | 5775 | 5.44 | 5.46 | 99.63 |
| | Ant2 | 5775 | 5.43 | 5.46 | 99.45 |
| 11A-CDD | Ant1 | 5180 | 2.09 | 2.11 | 99.05 |
| | Ant2 | 5180 | 2.09 | 2.11 | 99.05 |
| | Ant1 | 5200 | 2.09 | 2.11 | 99.05 |
| | Ant2 | 5200 | 2.10 | 2.12 | 99.06 |
| | Ant1 | 5240 | 2.10 | 2.12 | 99.06 |
| | Ant2 | 5240 | 2.09 | 2.11 | 99.05 |
| | Ant1 | 5745 | 2.10 | 2.11 | 99.53 |
| | Ant2 | 5745 | 2.10 | 2.12 | 99.06 |
| | Ant1 | 5785 | 2.10 | 2.11 | 99.53 |
| | Ant2 | 5785 | 2.10 | 2.11 | 99.53 |

| | | | | | |
|---|---|---|---|---|---|
| | Ant1 | 5825 | 2.09 | 2.11 | 99.05 |
| | Ant2 | 5825 | 2.10 | 2.11 | 99.53 |
| 11N20MIMO | Ant1 | 5180 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5180 | 5.42 | 5.45 | 99.45 |
| | Ant1 | 5200 | 5.43 | 5.45 | 99.63 |
| | Ant2 | 5200 | 5.43 | 5.44 | 99.82 |
| | Ant1 | 5240 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5240 | 5.42 | 5.44 | 99.63 |
| | Ant1 | 5745 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5745 | 5.42 | 5.44 | 99.63 |
| | Ant1 | 5785 | 5.42 | 5.45 | 99.45 |
| | Ant2 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5825 | 5.42 | 5.45 | 99.45 |
| | Ant2 | 5825 | 27.00 | 27.00 | 100.00 |
| 11N40MIMO | Ant1 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5190 | 5.42 | 5.44 | 99.63 |
| | Ant1 | 5230 | 5.43 | 5.44 | 99.82 |
| | Ant2 | 5230 | 5.43 | 5.44 | 99.82 |
| | Ant1 | 5755 | 5.43 | 5.44 | 99.82 |
| | Ant2 | 5755 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5795 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5795 | 27.00 | 27.00 | 100.00 |
| 11AC20MIMO | Ant1 | 5180 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5180 | 5.42 | 5.45 | 99.45 |
| | Ant1 | 5200 | 5.43 | 5.45 | 99.63 |
| | Ant2 | 5200 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5240 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5240 | 5.43 | 5.44 | 99.82 |
| | Ant1 | 5745 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5745 | 5.42 | 5.45 | 99.45 |
| | Ant1 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5785 | 5.42 | 5.44 | 99.63 |
| | Ant1 | 5825 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5825 | 5.42 | 5.44 | 99.63 |
| 11AC40MIMO | Ant1 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5230 | 27.00 | 27.00 | 100.00 |

| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5230 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5755 | 5.43 | 5.44 | 99.82 |
| | Ant2 | 5755 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5795 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5795 | 27.00 | 27.00 | 100.00 |
| 11AC80MIMO | Ant1 | 5210 | 5.43 | 5.44 | 99.82 |
| | Ant2 | 5210 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5775 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5775 | 5.43 | 5.45 | 99.63 |
| 11AX20MIMO | Ant1 | 5180 | 5.44 | 5.46 | 99.63 |
| | Ant2 | 5180 | 5.43 | 5.46 | 99.45 |
| | Ant1 | 5200 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5200 | 5.45 | 5.46 | 99.82 |
| | Ant1 | 5240 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5240 | 5.43 | 5.46 | 99.45 |
| | Ant1 | 5745 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5745 | 5.45 | 5.46 | 99.82 |
| | Ant1 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5785 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5825 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5825 | 5.44 | 5.46 | 99.63 |
| 11AX40MIMO | Ant1 | 5190 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5190 | 5.43 | 5.46 | 99.45 |
| | Ant1 | 5230 | 5.44 | 5.46 | 99.63 |
| | Ant2 | 5230 | 27.00 | 27.00 | 100.00 |
| | Ant1 | 5755 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5755 | 5.45 | 5.47 | 99.63 |
| | Ant1 | 5795 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5795 | 5.43 | 5.46 | 99.45 |
| 11AX80MIMO | Ant1 | 5210 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5210 | 5.44 | 5.46 | 99.63 |
| | Ant1 | 5775 | 27.00 | 27.00 | 100.00 |
| | Ant2 | 5775 | 27.00 | 27.00 | 100.00 |

Test Graphs see Appendix A.

## 2.6. Test Software

The test utility software used during testing was “Putty.exe”, Power Parameter Value:

| Test Mode | 5150-5250MHz | | | 5725-5850MHz | | |
|---|---|---|---|---|---|---|
| | Antenna1 | Antenna2 | CDD/MIMO | Antenna1 | Antenna2 | CDD/MIMO |
| 802.11a | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11n-HT20 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11n-HT40 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11ac-VHT20 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11ac-VHT40 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11ac-VHT80 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11ax-HE20 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11ax-HE40 | 2 | 2 | -1 | 16 | 16 | 13 |
| 802.11ax-HE80 | 2 | 2 | -1 | 16 | 16 | 13 |

## 2.7. Test Mode

The EUT not support partial RU’s and channel puncturing mode.

| Test Mode |
|---|
| Mode 1: Transmit by 802.11a Antenna1 |
| Mode 2: Transmit by 802.11n-HT20 Antenna1 |
| Mode 3: Transmit by 802.11n-HT40 Antenna1 |
| Mode 4: Transmit by 802.11ac-VHT20 Antenna1 |
| Mode 5: Transmit by 802.11ac-VHT40 Antenna1 |
| Mode 6: Transmit by 802.11ac-VHT80 Antenna1 |
| Mode 7: Transmit by 802.11ax-HE20 Antenna1 |
| Mode 8: Transmit by 802.11ax-HE40 Antenna1 |
| Mode 9: Transmit by 802.11ax-HE80 Antenna1 |
| Mode 10: Transmit by 802.11a Antenna2 |
| Mode 11: Transmit by 802.11n-HT20 Antenna2 |
| Mode 12: Transmit by 802.11n-HT40 Antenna2 |
| Mode 13: Transmit by 802.11ac-VHT20 Antenna2 |
| Mode 14: Transmit by 802.11ac-VHT40 Antenna2 |

| |
|---|
| Mode 15: Transmit by 802.11ac-VHT80 Antenna2 |
| Mode 16: Transmit by 802.11ax-HE20 Antenna2 |
| Mode 17: Transmit by 802.11ax-HE40 Antenna2 |
| Mode 18: Transmit by 802.11ax-HE80 Antenna2 |
| Mode 19: Transmit by 802.11a-CDD |
| Mode 20: Transmit by 802.11n-HT20 MIMO |
| Mode 21: Transmit by 802.11n-HT40 MIMO |
| Mode 22: Transmit by 802.11ac-VHT20 MIMO |
| Mode 23: Transmit by 802.11ac-VHT40 MIMO |
| Mode 24: Transmit by 802.11ac-VHT80 MIMO |
| Mode 35: Transmit by 802.11ax-HE20 MIMO |
| Mode 36: Transmit by 802.11ax-HE40 MIMO |
| Mode 37: Transmit by 802.11ax-HE80 MIMO |

## 2.8. Test Configuration

The EUT was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

## 2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S20241118761701-A1/A2/A3.

## 2.10. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

## 2.11. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

# 3. DESCRIPTION OF TEST

## 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement of the EUT.

**Deviation from measurement procedure…….....None**

## 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside a 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.11.

## 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

# 4. ANTENNA REQUIREMENTS

**Excerpt from §15.203 of the FCC Rules/Regulations:**

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- Use a unique coupling to the intentional radiator.

# 5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR3 | FWXGJC-2016-181 | 1 year | 2025/03/07 |
| Two-Line V-Network | R&S | ENV 216 | FWXGJC-2016-182 | 1 year | 2025/04/28 |
| Thermohygrometer | Yuhuaze | HTC-1 | FWXDA-2016-385 | 1 year | 2025/09/03 |

Radiated Emission

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| Loop Antenna | Schwarzbeck | FMZB 1519B | FWXGJC-2018-015 | 1 year | 2025/03/16 |
| Bi-Log Antenna | R&S | HL562E | FWXGJC-2016-267-06 | 1 year | 2025/07/26 |
| Broadband Horn Antenna | R&S | HF907 | FWXGJC-2016-267-07 | 1 year | 2025/03/01 |
| Broadband Horn Antenna | Schwarzbeck | BBHA9170 | FWXGJC-2018-016 | 1 year | 2025/07/26 |
| EMI Receiver | R&S | ESR26 | FWXGJC-2016-267-01 | 1 year | 2025/07/26 |
| Pre-Amplifier | R&S | SCU-18D | FWXGJC-2016-267-05 | 1 year | 2025/07/23 |
| Pre-Amplifier | R&S | EMC184055 SE | FWXGJC-2018-018 | 1 year | 2025/04/13 |
| Thermohygrometer | Yuhuaze | HTC-1 | FWXDA-2016-386 | 1 year | 2025/09/03 |
| Anechoic Chamber | Aimuke | EMCCT-3 | FWXGJC-2016-270 | 3 year | 2026/04/05 |

Conducted Test Equipment

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EXA Signal Analyzer | Keysight | N9010B | FWXGJC-2018-010 | 1 year | 2025/03/02 |
| RF Control Unit | Toncend | JS0806-2 | FWXGJC-2018-013 | 1 year | 2025/05/19 |
| Thermohygrometer | Yuhuaze | HTC-1 | FWXDA-2016-385 | 1 year | 2025/09/03 |

| Test Software | Manufacturer | Version | Asset No. | Function |
|---|---|---|---|---|
| EMI Test Software | tonscend | V3.3.10 | / | / |
| JS32 | tonscend | V2.5.2.4 | / | / |

Auxiliary Equipment

| Instrument | Manufacturer | Type No. | Asset No. | Function |
|---|---|---|---|---|
| Filter | Tonscend | ZBSF6 | 07247867 | / |
| Filter | Tonscend | ZHPF6 | 07233297 | / |
| Attenuator | Tonscend | 10dB | / | / |
| RF Cable | Tonscend | T-1 | / | / |

# 6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

| |
|---|
| AC Conducted Emission Measurement |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>2.68dB |
| Radiated Emission Measurement (Below 1GHz) |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>4.01dB |
| Radiated Emission Measurement (1-18GHz) |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>4.97dB |
| Radiated Emission Measurement (Above 18-40GHz) |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>5.32dB |
| Spurious Emissions, Conducted |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>30MHz-1GHz: 1.00 dB<br>1GHz-12.75GHz: 1.30 dB |
| Output Power |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>0.60dB |
| Power Spectrum Density |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>0.80dB |
| Occupied Bandwidth |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>0.20MHz |
| Frequency Stability |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>$0.1 \times 10^{-6}$MHz |

# 7. TEST RESULT

## 7.1. Summary

| FCC Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|---|---|---|---|---|---|
| 15.407(a) | 26dB Bandwidth | N/A | Conducted | Pass | Section 7.2 |
| 15.407(e) | 6dB Bandwidth | ≥ 500kHz | | Pass | Section 7.3 |
| 15.407(a)(1)(iv), (2), (3) | Maximum Conducted Output Power | ≤ 16.2 dBm U-NII-1<br>≤ 16.2 dBm U-NII-3 | | Pass | Section 7.4 |
| 15.407(h)(1) | Transmit Power Control | ≤ 24 dBm | | Pass | Section 7.5 |
| 15.407(a)(1)(iv), (2), (3), (5) | Peak Power Spectral Density | ≤ -2.8 dBm/MHz U-NII-1<br>≤ 16.2 dBm/500kHz U-NII-3 | | Pass | Section 7.6 |
| 15.407(g) | Frequency Stability | N/A | | Pass | Section 7.7 |
| 15.407(b)(1), (2), (3), (4)(i) | Undesirable Emissions | ≤ -27dBm/MHz EIRP<br>Detail see section 7.9 | Radiated | Pass | Section 7.8 & 7.9 |
| 15.205, 15.209<br>15.407(b)(5), (6), (7) | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | Emissions in restricted bands must meet the radiated limits detailed in 15.209 | | Pass | |
| 15.207 | AC Conducted Emissions 150kHz - 30MHz | < FCC 15.207 limits | Line Conducted | Not Applicable | Section 7.10 |

**Notes:**

1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

## 7.2. 26dB Bandwidth Measurement and 99% Bandwidth

### 7.2.1. Test Limit

N/A

### 7.2.2. Test Procedure used

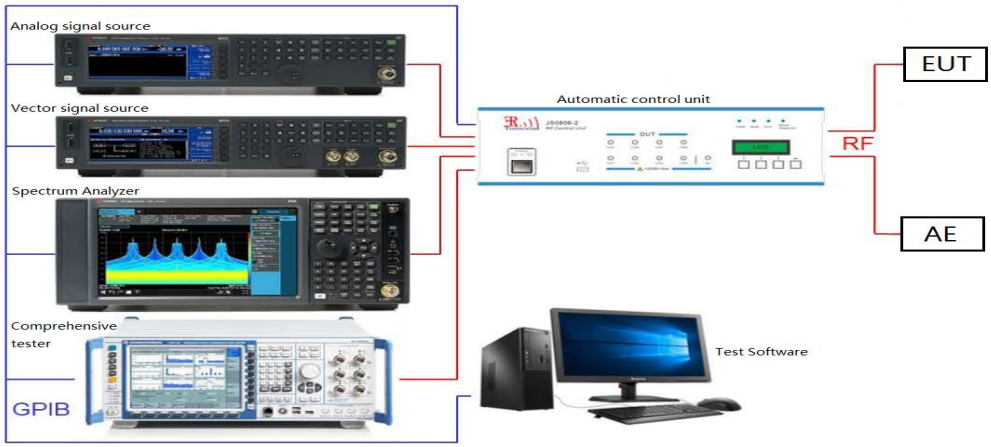
KDB 789033 D02v02r01 – Section C.1

ANSI C63.10-2013 D02v02r01 – Section C

### 7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW ≥ 3 × RBW.
4. Detector = Peak.
5. Trace mode = max hold.

### 7.2.4. Test Setup



### 7.2.5. Test Result

| Test Mode | Antenna | Frequency (MHz) | 26db EBW [MHz] | FL[MHz] | FH[MHz] | OCB [MHz] |
|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 18.720 | 5170.640 | 5189.360 | 16.411 |
| | Ant2 | 5180 | 18.600 | 5170.720 | 5189.320 | 16.369 |
| | Ant1 | 5200 | 18.240 | 5190.840 | 5209.080 | 16.381 |
| | Ant2 | 5200 | 19.440 | 5189.800 | 5209.240 | 16.396 |
| | Ant1 | 5240 | 18.560 | 5230.680 | 5249.240 | 16.387 |
| | Ant2 | 5240 | 18.320 | 5230.920 | 5249.240 | 16.365 |
| | Ant1 | 5745 | 18.840 | 5735.600 | 5754.440 | 16.373 |
| | Ant2 | 5745 | 19.720 | 5734.680 | 5754.400 | 16.396 |
| | Ant1 | 5785 | 18.320 | 5775.800 | 5794.120 | 16.391 |
| | Ant2 | 5785 | 18.880 | 5775.520 | 5794.400 | 16.388 |
| | Ant1 | 5825 | 19.240 | 5814.840 | 5834.080 | 16.374 |
| | Ant2 | 5825 | 18.560 | 5815.760 | 5834.320 | 16.382 |
| 11N20SISO | Ant1 | 5180 | 19.760 | 5170.160 | 5189.920 | 17.591 |
| | Ant2 | 5180 | 19.520 | 5170.080 | 5189.600 | 17.558 |
| | Ant1 | 5200 | 19.800 | 5190.120 | 5209.920 | 17.573 |
| | Ant2 | 5200 | 19.920 | 5189.960 | 5209.880 | 17.560 |
| | Ant1 | 5240 | 20.200 | 5230.040 | 5250.240 | 17.558 |
| | Ant2 | 5240 | 20.320 | 5229.640 | 5249.960 | 17.558 |
| | Ant1 | 5745 | 19.360 | 5735.280 | 5754.640 | 17.572 |
| | Ant2 | 5745 | 19.760 | 5735.080 | 5754.840 | 17.590 |
| | Ant1 | 5785 | 19.640 | 5775.200 | 5794.840 | 17.577 |
| | Ant2 | 5785 | 20.160 | 5775.200 | 5795.360 | 17.561 |
| | Ant1 | 5825 | 19.960 | 5814.960 | 5834.920 | 17.531 |
| | Ant2 | 5825 | 19.800 | 5815.160 | 5834.960 | 17.541 |
| 11N40SISO | Ant1 | 5190 | 39.440 | 5170.480 | 5209.920 | 35.884 |
| | Ant2 | 5190 | 39.360 | 5170.320 | 5209.680 | 35.928 |
| | Ant1 | 5230 | 38.880 | 5210.560 | 5249.440 | 35.923 |
| | Ant2 | 5230 | 38.720 | 5210.640 | 5249.360 | 35.852 |
| | Ant1 | 5755 | 38.800 | 5735.560 | 5774.360 | 35.839 |
| | Ant2 | 5755 | 38.880 | 5735.480 | 5774.360 | 35.880 |
| | Ant1 | 5795 | 39.120 | 5775.400 | 5814.520 | 35.907 |
| | Ant2 | 5795 | 39.040 | 5775.560 | 5814.600 | 35.879 |
| 11AC20SISO | Ant1 | 5180 | 19.480 | 5170.320 | 5189.800 | 17.549 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Ant2 | 5180 | 19.520 | 5170.160 | 5189.680 | 17.544 |
| | Ant1 | 5200 | 20.200 | 5189.920 | 5210.120 | 17.530 |
| | Ant2 | 5200 | 20.400 | 5189.920 | 5210.320 | 17.508 |
| | Ant1 | 5240 | 19.680 | 5230.120 | 5249.800 | 17.551 |
| | Ant2 | 5240 | 19.600 | 5230.200 | 5249.800 | 17.573 |
| | Ant1 | 5745 | 20.120 | 5735.160 | 5755.280 | 17.551 |
| | Ant2 | 5745 | 20.320 | 5734.960 | 5755.280 | 17.557 |
| | Ant1 | 5785 | 19.680 | 5775.160 | 5794.840 | 17.554 |
| | Ant2 | 5785 | 20.640 | 5774.600 | 5795.240 | 17.546 |
| | Ant1 | 5825 | 20.240 | 5814.960 | 5835.200 | 17.546 |
| | Ant2 | 5825 | 20.640 | 5814.640 | 5835.280 | 17.553 |
| 11AC40SISO | Ant1 | 5190 | 39.120 | 5170.560 | 5209.680 | 35.861 |
| | Ant2 | 5190 | 39.200 | 5170.160 | 5209.360 | 35.950 |
| | Ant1 | 5230 | 39.120 | 5210.480 | 5249.600 | 35.902 |
| | Ant2 | 5230 | 38.960 | 5210.560 | 5249.520 | 35.905 |
| | Ant1 | 5755 | 39.600 | 5735.480 | 5775.080 | 35.887 |
| | Ant2 | 5755 | 38.960 | 5735.320 | 5774.280 | 35.870 |
| | Ant1 | 5795 | 38.480 | 5775.800 | 5814.280 | 35.960 |
| | Ant2 | 5795 | 38.640 | 5775.560 | 5814.200 | 35.914 |
| 11AC80SISO | Ant1 | 5210 | 79.680 | 5170.320 | 5250.000 | 75.135 |
| | Ant2 | 5210 | 80.960 | 5169.360 | 5250.320 | 75.128 |
| | Ant1 | 5775 | 80.160 | 5735.000 | 5815.160 | 74.883 |
| | Ant2 | 5775 | 80.640 | 5734.680 | 5815.320 | 74.856 |
| 11AX20SISO | Ant1 | 5180 | 20.880 | 5169.640 | 5190.520 | 19.152 |
| | Ant2 | 5180 | 21.880 | 5168.880 | 5190.760 | 19.121 |
| | Ant1 | 5200 | 21.440 | 5189.200 | 5210.640 | 19.144 |
| | Ant2 | 5200 | 21.720 | 5189.280 | 5211.000 | 19.137 |
| | Ant1 | 5240 | 22.080 | 5228.840 | 5250.920 | 19.141 |
| | Ant2 | 5240 | 21.960 | 5229.080 | 5251.040 | 19.126 |
| | Ant1 | 5745 | 21.880 | 5733.880 | 5755.760 | 19.158 |
| | Ant2 | 5745 | 21.360 | 5734.320 | 5755.680 | 19.188 |
| | Ant1 | 5785 | 21.400 | 5774.160 | 5795.560 | 19.152 |
| | Ant2 | 5785 | 21.760 | 5774.360 | 5796.120 | 19.166 |
| | Ant1 | 5825 | 21.360 | 5814.480 | 5835.840 | 19.138 |
| | Ant2 | 5825 | 21.720 | 5813.960 | 5835.680 | 19.164 |
| 11AX40SISO | Ant1 | 5190 | 42.080 | 5169.120 | 5211.200 | 38.040 |
| | Ant2 | 5190 | 43.040 | 5168.320 | 5211.360 | 38.049 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Ant1 | 5230 | 42.800 | 5208.560 | 5251.360 | 38.118 |
| | Ant2 | 5230 | 42.880 | 5208.160 | 5251.040 | 38.041 |
| | Ant1 | 5755 | 42.240 | 5733.560 | 5775.800 | 38.098 |
| | Ant2 | 5755 | 42.640 | 5733.160 | 5775.800 | 38.162 |
| | Ant1 | 5795 | 42.080 | 5773.960 | 5816.040 | 38.142 |
| | Ant2 | 5795 | 41.760 | 5774.280 | 5816.040 | 38.189 |
| 11AX80SISO | Ant1 | 5210 | 85.920 | 5167.120 | 5253.040 | 77.958 |
| | Ant2 | 5210 | 85.280 | 5167.440 | 5252.720 | 78.073 |
| | Ant1 | 5775 | 84.320 | 5732.760 | 5817.080 | 77.976 |
| | Ant2 | 5775 | 83.840 | 5732.920 | 5816.760 | 78.046 |
| 11A-CDD | Ant1 | 5180 | 18.840 | 5170.520 | 5189.360 | 16.366 |
| | Ant2 | 5180 | 18.480 | 5170.680 | 5189.160 | 16.406 |
| | Ant1 | 5200 | 19.560 | 5189.760 | 5209.320 | 16.393 |
| | Ant2 | 5200 | 19.800 | 5190.040 | 5209.840 | 16.407 |
| | Ant1 | 5240 | 18.120 | 5231.000 | 5249.120 | 16.343 |
| | Ant2 | 5240 | 18.760 | 5230.560 | 5249.320 | 16.354 |
| | Ant1 | 5745 | 18.680 | 5735.640 | 5754.320 | 16.369 |
| | Ant2 | 5745 | 18.760 | 5735.520 | 5754.280 | 16.348 |
| | Ant1 | 5785 | 19.040 | 5775.160 | 5794.200 | 16.352 |
| | Ant2 | 5785 | 19.040 | 5775.280 | 5794.320 | 16.354 |
| | Ant1 | 5825 | 18.520 | 5815.720 | 5834.240 | 16.389 |
| | Ant2 | 5825 | 18.400 | 5815.680 | 5834.080 | 16.341 |
| 11N20MIMO | Ant1 | 5180 | 19.840 | 5170.280 | 5190.120 | 17.553 |
| | Ant2 | 5180 | 20.720 | 5169.440 | 5190.160 | 17.569 |
| | Ant1 | 5200 | 19.440 | 5190.160 | 5209.600 | 17.591 |
| | Ant2 | 5200 | 19.960 | 5189.960 | 5209.920 | 17.550 |
| | Ant1 | 5240 | 19.720 | 5230.200 | 5249.920 | 17.603 |
| | Ant2 | 5240 | 19.680 | 5230.160 | 5249.840 | 17.543 |
| | Ant1 | 5745 | 19.600 | 5735.280 | 5754.880 | 17.535 |
| | Ant2 | 5745 | 20.720 | 5734.640 | 5755.360 | 17.579 |
| | Ant1 | 5785 | 19.800 | 5774.880 | 5794.680 | 17.581 |
| | Ant2 | 5785 | 19.520 | 5775.400 | 5794.920 | 17.565 |
| | Ant1 | 5825 | 20.080 | 5815.120 | 5835.200 | 17.553 |
| | Ant2 | 5825 | 19.440 | 5815.440 | 5834.880 | 17.525 |
| 11N40MIMO | Ant1 | 5190 | 39.120 | 5170.400 | 5209.520 | 35.947 |
| | Ant2 | 5190 | 38.880 | 5170.480 | 5209.360 | 35.841 |
| | Ant1 | 5230 | 39.520 | 5209.920 | 5249.440 | 35.914 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Ant2 | 5230 | 38.880 | 5210.400 | 5249.280 | 35.962 |
| | Ant1 | 5755 | 39.200 | 5735.400 | 5774.600 | 35.800 |
| | Ant2 | 5755 | 38.800 | 5735.480 | 5774.280 | 35.857 |
| | Ant1 | 5795 | 39.600 | 5775.080 | 5814.680 | 35.918 |
| | Ant2 | 5795 | 38.960 | 5775.640 | 5814.600 | 35.867 |
| 11AC20MIMO | Ant1 | 5180 | 19.800 | 5170.120 | 5189.920 | 17.578 |
| | Ant2 | 5180 | 19.440 | 5170.240 | 5189.680 | 17.600 |
| | Ant1 | 5200 | 20.000 | 5190.120 | 5210.120 | 17.564 |
| | Ant2 | 5200 | 19.680 | 5190.160 | 5209.840 | 17.571 |
| | Ant1 | 5240 | 19.560 | 5230.360 | 5249.920 | 17.602 |
| | Ant2 | 5240 | 19.720 | 5230.120 | 5249.840 | 17.554 |
| | Ant1 | 5745 | 20.120 | 5734.960 | 5755.080 | 17.540 |
| | Ant2 | 5745 | 19.640 | 5735.000 | 5754.640 | 17.510 |
| | Ant1 | 5785 | 20.000 | 5774.960 | 5794.960 | 17.572 |
| | Ant2 | 5785 | 20.200 | 5774.880 | 5795.080 | 17.519 |
| | Ant1 | 5825 | 20.440 | 5814.640 | 5835.080 | 17.568 |
| | Ant2 | 5825 | 20.000 | 5814.840 | 5834.840 | 17.488 |
| 11AC40MIMO | Ant1 | 5190 | 39.920 | 5170.400 | 5210.320 | 35.943 |
| | Ant2 | 5190 | 39.760 | 5170.160 | 5209.920 | 35.908 |
| | Ant1 | 5230 | 39.120 | 5210.480 | 5249.600 | 35.925 |
| | Ant2 | 5230 | 38.400 | 5210.880 | 5249.280 | 35.852 |
| | Ant1 | 5755 | 39.040 | 5735.560 | 5774.600 | 35.840 |
| | Ant2 | 5755 | 38.480 | 5735.800 | 5774.280 | 35.784 |
| | Ant1 | 5795 | 39.520 | 5775.080 | 5814.600 | 35.948 |
| | Ant2 | 5795 | 38.560 | 5775.880 | 5814.440 | 35.780 |
| 11AC80MIMO | Ant1 | 5210 | 80.800 | 5169.520 | 5250.320 | 75.165 |
| | Ant2 | 5210 | 80.480 | 5169.360 | 5249.840 | 75.242 |
| | Ant1 | 5775 | 80.160 | 5734.840 | 5815.000 | 74.998 |
| | Ant2 | 5775 | 80.000 | 5735.320 | 5815.320 | 74.865 |
| 11AX20MIMO | Ant1 | 5180 | 20.840 | 5169.600 | 5190.440 | 19.178 |
| | Ant2 | 5180 | 20.960 | 5169.480 | 5190.440 | 19.128 |
| | Ant1 | 5200 | 21.640 | 5189.040 | 5210.680 | 19.146 |
| | Ant2 | 5200 | 21.480 | 5189.040 | 5210.520 | 19.098 |
| | Ant1 | 5240 | 21.560 | 5229.000 | 5250.560 | 19.078 |
| | Ant2 | 5240 | 21.960 | 5229.080 | 5251.040 | 19.089 |
| | Ant1 | 5745 | 20.960 | 5734.480 | 5755.440 | 19.169 |
| | Ant2 | 5745 | 21.560 | 5734.120 | 5755.680 | 19.165 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Ant1 | 5785 | 21.640 | 5774.040 | 5795.680 | 19.177 |
| | Ant2 | 5785 | 21.480 | 5774.480 | 5795.960 | 19.184 |
| | Ant1 | 5825 | 21.320 | 5814.400 | 5835.720 | 19.150 |
| | Ant2 | 5825 | 22.040 | 5813.760 | 5835.800 | 19.154 |
| 11AX40MIMO | Ant1 | 5190 | 42.400 | 5168.720 | 5211.120 | 38.111 |
| | Ant2 | 5190 | 43.280 | 5168.000 | 5211.280 | 38.075 |
| | Ant1 | 5230 | 42.880 | 5208.640 | 5251.520 | 38.041 |
| | Ant2 | 5230 | 43.200 | 5207.840 | 5251.040 | 38.165 |
| | Ant1 | 5755 | 42.080 | 5733.880 | 5775.960 | 38.134 |
| | Ant2 | 5755 | 42.480 | 5733.560 | 5776.040 | 38.155 |
| | Ant1 | 5795 | 42.800 | 5773.480 | 5816.280 | 38.242 |
| | Ant2 | 5795 | 42.960 | 5773.560 | 5816.520 | 38.200 |
| 11AX80MIMO | Ant1 | 5210 | 83.840 | 5167.760 | 5251.600 | 78.043 |
| | Ant2 | 5210 | 86.560 | 5166.000 | 5252.560 | 77.959 |
| | Ant1 | 5775 | 86.080 | 5731.800 | 5817.880 | 77.913 |
| | Ant2 | 5775 | 86.080 | 5732.280 | 5818.360 | 78.067 |

Test Graphs see Appendix B.

## 7.3. 6dB Bandwidth Measurement

### 7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

### 7.3.2. Test Procedure used

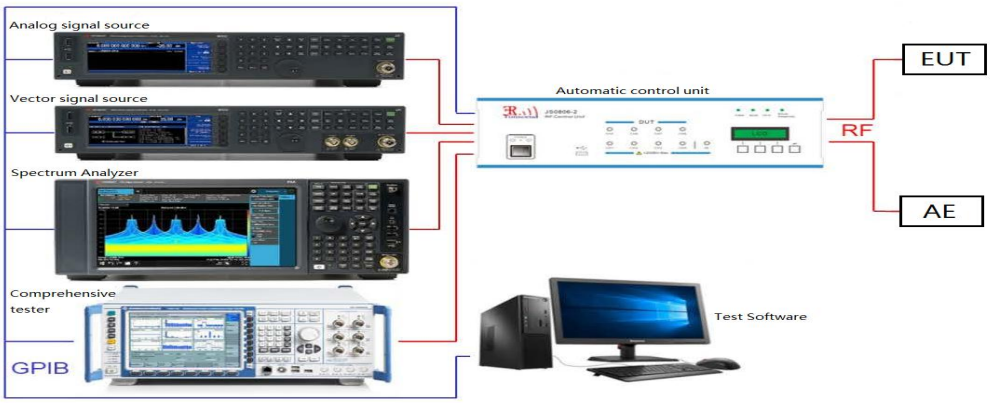
KDB 789033 D02v02r01 – Section C.2

ANSI C63.10-2013 – Section C

### 7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW ≧ 3 × RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.3.4. Test Setup



### 7.3.5. Test Result

| Test Mode | Antenna | Frequency (MHz) | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit [MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5745 | 16.080 | 5736.880 | 5752.960 | 0.5 | PASS |
| | Ant2 | 5745 | 15.920 | 5736.880 | 5752.800 | 0.5 | PASS |
| | Ant1 | 5785 | 15.840 | 5776.840 | 5792.680 | 0.5 | PASS |
| | Ant2 | 5785 | 15.600 | 5777.200 | 5792.800 | 0.5 | PASS |
| | Ant1 | 5825 | 15.800 | 5816.880 | 5832.680 | 0.5 | PASS |
| | Ant2 | 5825 | 13.680 | 5817.560 | 5831.240 | 0.5 | PASS |
| 11N20SISO | Ant1 | 5745 | 15.560 | 5736.600 | 5752.160 | 0.5 | PASS |
| | Ant2 | 5745 | 15.640 | 5737.520 | 5753.160 | 0.5 | PASS |
| | Ant1 | 5785 | 11.280 | 5779.360 | 5790.640 | 0.5 | PASS |
| | Ant2 | 5785 | 17.560 | 5776.240 | 5793.800 | 0.5 | PASS |
| | Ant1 | 5825 | 17.040 | 5816.520 | 5833.560 | 0.5 | PASS |
| | Ant2 | 5825 | 17.280 | 5816.480 | 5833.760 | 0.5 | PASS |
| 11N40SISO | Ant1 | 5755 | 34.960 | 5737.240 | 5772.200 | 0.5 | PASS |
| | Ant2 | 5755 | 28.960 | 5741.000 | 5769.960 | 0.5 | PASS |
| | Ant1 | 5795 | 35.040 | 5777.480 | 5812.520 | 0.5 | PASS |
| | Ant2 | 5795 | 35.680 | 5777.480 | 5813.160 | 0.5 | PASS |
| 11AC20SISO | Ant1 | 5745 | 15.640 | 5736.880 | 5752.520 | 0.5 | PASS |
| | Ant2 | 5745 | 12.760 | 5737.760 | 5750.520 | 0.5 | PASS |
| | Ant1 | 5785 | 16.640 | 5776.520 | 5793.160 | 0.5 | PASS |
| | Ant2 | 5785 | 17.520 | 5776.240 | 5793.760 | 0.5 | PASS |
| | Ant1 | 5825 | 17.200 | 5816.600 | 5833.800 | 0.5 | PASS |
| | Ant2 | 5825 | 16.920 | 5816.840 | 5833.760 | 0.5 | PASS |
| 11AC40SISO | Ant1 | 5755 | 32.800 | 5737.880 | 5770.680 | 0.5 | PASS |
| | Ant2 | 5755 | 36.080 | 5736.840 | 5772.920 | 0.5 | PASS |
| | Ant1 | 5795 | 35.680 | 5777.480 | 5813.160 | 0.5 | PASS |
| | Ant2 | 5795 | 35.760 | 5777.080 | 5812.840 | 0.5 | PASS |
| 11AC80SISO | Ant1 | 5775 | 49.280 | 5756.920 | 5806.200 | 0.5 | PASS |
| | Ant2 | 5775 | 69.920 | 5741.240 | 5811.160 | 0.5 | PASS |
| 11AX20SISO | Ant1 | 5745 | 19.080 | 5735.440 | 5754.520 | 0.5 | PASS |
| | Ant2 | 5745 | 19.000 | 5735.520 | 5754.520 | 0.5 | PASS |
| | Ant1 | 5785 | 19.160 | 5775.400 | 5794.560 | 0.5 | PASS |
| | Ant2 | 5785 | 19.040 | 5775.480 | 5794.520 | 0.5 | PASS |
| | Ant1 | 5825 | 19.080 | 5815.480 | 5834.560 | 0.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant2 | 5825 | 19.040 | 5815.480 | 5834.520 | 0.5 | PASS |
| 11AX40SISO | Ant1 | 5755 | 38.080 | 5735.960 | 5774.040 | 0.5 | PASS |
| | Ant2 | 5755 | 38.160 | 5735.960 | 5774.120 | 0.5 | PASS |
| | Ant1 | 5795 | 38.160 | 5775.960 | 5814.120 | 0.5 | PASS |
| | Ant2 | 5795 | 38.080 | 5775.960 | 5814.040 | 0.5 | PASS |
| 11AX80SISO | Ant1 | 5775 | 77.920 | 5735.960 | 5813.880 | 0.5 | PASS |
| | Ant2 | 5775 | 78.080 | 5735.960 | 5814.040 | 0.5 | PASS |
| 11A-CDD | Ant1 | 5745 | 15.240 | 5737.520 | 5752.760 | 0.5 | PASS |
| | Ant2 | 5745 | 14.440 | 5737.480 | 5751.920 | 0.5 | PASS |
| | Ant1 | 5785 | 12.840 | 5778.440 | 5791.280 | 0.5 | PASS |
| | Ant2 | 5785 | 13.760 | 5778.120 | 5791.880 | 0.5 | PASS |
| | Ant1 | 5825 | 16.000 | 5816.880 | 5832.880 | 0.5 | PASS |
| | Ant2 | 5825 | 15.400 | 5816.880 | 5832.280 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 5745 | 13.040 | 5739.120 | 5752.160 | 0.5 | PASS |
| | Ant2 | 5745 | 17.600 | 5736.200 | 5753.800 | 0.5 | PASS |
| | Ant1 | 5785 | 16.880 | 5776.600 | 5793.480 | 0.5 | PASS |
| | Ant2 | 5785 | 16.600 | 5776.560 | 5793.160 | 0.5 | PASS |
| | Ant1 | 5825 | 17.200 | 5816.560 | 5833.760 | 0.5 | PASS |
| | Ant2 | 5825 | 16.200 | 5816.280 | 5832.480 | 0.5 | PASS |
| 11N40MIMO | Ant1 | 5755 | 36.080 | 5737.080 | 5773.160 | 0.5 | PASS |
| | Ant2 | 5755 | 35.680 | 5736.840 | 5772.520 | 0.5 | PASS |
| | Ant1 | 5795 | 35.440 | 5777.080 | 5812.520 | 0.5 | PASS |
| | Ant2 | 5795 | 35.680 | 5777.080 | 5812.760 | 0.5 | PASS |
| 11AC20MIMO | Ant1 | 5745 | 17.040 | 5736.360 | 5753.400 | 0.5 | PASS |
| | Ant2 | 5745 | 17.320 | 5736.240 | 5753.560 | 0.5 | PASS |
| | Ant1 | 5785 | 16.960 | 5776.240 | 5793.200 | 0.5 | PASS |
| | Ant2 | 5785 | 17.560 | 5776.240 | 5793.800 | 0.5 | PASS |
| | Ant1 | 5825 | 17.560 | 5816.240 | 5833.800 | 0.5 | PASS |
| | Ant2 | 5825 | 17.520 | 5816.240 | 5833.760 | 0.5 | PASS |
| 11AC40MIMO | Ant1 | 5755 | 35.600 | 5736.920 | 5772.520 | 0.5 | PASS |
| | Ant2 | 5755 | 28.400 | 5742.840 | 5771.240 | 0.5 | PASS |
| | Ant1 | 5795 | 36.000 | 5777.160 | 5813.160 | 0.5 | PASS |
| | Ant2 | 5795 | 35.040 | 5777.480 | 5812.520 | 0.5 | PASS |
| 11AC80MIMO | Ant1 | 5775 | 58.720 | 5742.520 | 5801.240 | 0.5 | PASS |
| | Ant2 | 5775 | 64.640 | 5741.880 | 5806.520 | 0.5 | PASS |
| 11AX20MIMO | Ant1 | 5745 | 19.040 | 5735.480 | 5754.520 | 0.5 | PASS |
| | Ant2 | 5745 | 19.080 | 5735.480 | 5754.560 | 0.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant1 | 5785 | 19.000 | 5775.520 | 5794.520 | 0.5 | PASS |
| | Ant2 | 5785 | 19.160 | 5775.400 | 5794.560 | 0.5 | PASS |
| | Ant1 | 5825 | 19.080 | 5815.480 | 5834.560 | 0.5 | PASS |
| | Ant2 | 5825 | 19.080 | 5815.440 | 5834.520 | 0.5 | PASS |
| 11AX40MIMO | Ant1 | 5755 | 38.160 | 5735.880 | 5774.040 | 0.5 | PASS |
| | Ant2 | 5755 | 38.080 | 5735.960 | 5774.040 | 0.5 | PASS |
| | Ant1 | 5795 | 38.080 | 5775.960 | 5814.040 | 0.5 | PASS |
| | Ant2 | 5795 | 37.920 | 5775.960 | 5813.880 | 0.5 | PASS |
| 11AX80MIMO | Ant1 | 5775 | 78.080 | 5735.960 | 5814.040 | 0.5 | PASS |
| | Ant2 | 5775 | 78.080 | 5735.960 | 5814.040 | 0.5 | PASS |

Test Graphs see Appendix C.

## 7.4. Output Power Measurement

### 7.4.1. Test Limit

**For FCC Power Measurement Limit**

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).

For the band 5.725-5.850 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.

**For IC Power Measurement Limit**

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W. The output 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 output 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 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-multipointFootnote3 systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

### 7.4.2. Test Procedure Used

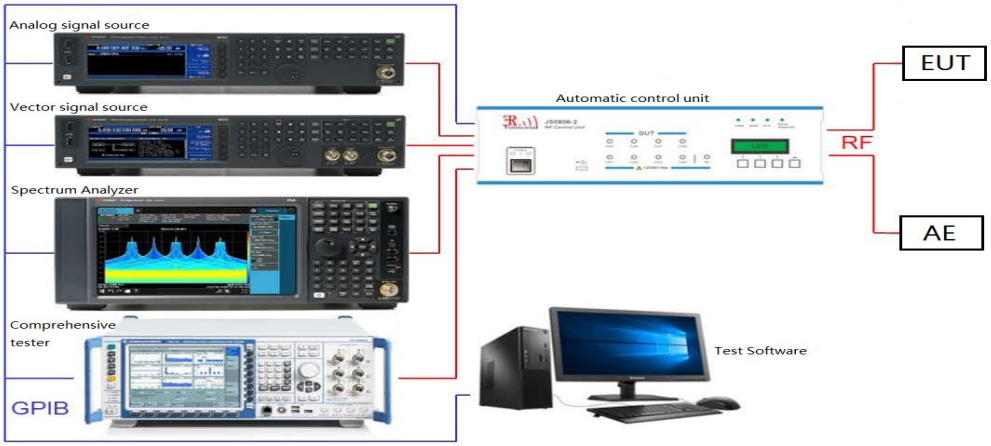
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

### 7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### 7.4.4. Test Setup



### 7.4.5. Test Rate Assessment

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output for final test of each channel.

| Modulation Mode | Worst Data Rate |
|---|---|
| 802.11a | 6Mbps |
| 802.11n(20MHz) | MCS0 |
| 802.11n(40MHz) | MCS0 |
| 802.11ac(20MHz) | MCS0 |
| 802.11ac(40MHz) | MCS0 |
| 802.11ac(80MHz) | MCS0 |
| 802.11ac(80MHz) | MCS0 |
| 802.11ax(20MHz) | MCS0 |
| 802.11ax(40MHz) | MCS0 |
| 802.11ax(80MHz) | MCS0 |

### 7.4.6. Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 1.62 | ≤16.19 | PASS |
| | Ant2 | 5180 | 1.65 | ≤16.19 | PASS |
| | Ant1 | 5200 | 1.78 | ≤16.19 | PASS |
| | Ant2 | 5200 | 1.94 | ≤16.19 | PASS |
| | Ant1 | 5240 | 2.09 | ≤16.19 | PASS |
| | Ant2 | 5240 | 2.04 | ≤16.19 | PASS |
| | Ant1 | 5745 | 14.90 | ≤16.19 | PASS |
| | Ant2 | 5745 | 14.96 | ≤16.19 | PASS |
| | Ant1 | 5785 | 14.47 | ≤16.19 | PASS |
| | Ant2 | 5785 | 14.61 | ≤16.19 | PASS |
| | Ant1 | 5825 | 13.97 | ≤16.19 | PASS |
| | Ant2 | 5825 | 14.49 | ≤16.19 | PASS |
| 11N20SISO | Ant1 | 5180 | 1.44 | ≤16.19 | PASS |
| | Ant2 | 5180 | 1.68 | ≤16.19 | PASS |
| | Ant1 | 5200 | 1.55 | ≤16.19 | PASS |
| | Ant2 | 5200 | 1.78 | ≤16.19 | PASS |
| | Ant1 | 5240 | 1.90 | ≤16.19 | PASS |
| | Ant2 | 5240 | 1.95 | ≤16.19 | PASS |
| | Ant1 | 5745 | 14.52 | ≤16.19 | PASS |
| | Ant2 | 5745 | 14.64 | ≤16.19 | PASS |
| | Ant1 | 5785 | 14.11 | ≤16.19 | PASS |
| | Ant2 | 5785 | 14.25 | ≤16.19 | PASS |
| | Ant1 | 5825 | 13.75 | ≤16.19 | PASS |
| | Ant2 | 5825 | 14.12 | ≤16.19 | PASS |
| 11N40SISO | Ant1 | 5190 | 1.66 | ≤16.19 | PASS |
| | Ant2 | 5190 | 1.58 | ≤16.19 | PASS |
| | Ant1 | 5230 | 1.99 | ≤16.19 | PASS |
| | Ant2 | 5230 | 1.71 | ≤16.19 | PASS |
| | Ant1 | 5755 | 16.18 | ≤16.19 | PASS |
| | Ant2 | 5755 | 15.82 | ≤16.19 | PASS |
| | Ant1 | 5795 | 15.66 | ≤16.19 | PASS |
| | Ant2 | 5795 | 15.64 | ≤16.19 | PASS |
| 11AC20SISO | Ant1 | 5180 | 2.10 | ≤16.19 | PASS |
| | Ant2 | 5180 | 1.67 | ≤16.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant1 | 5200 | 2.05 | ≤16.19 | PASS |
| | Ant2 | 5200 | 1.76 | ≤16.19 | PASS |
| | Ant1 | 5240 | 2.18 | ≤16.19 | PASS |
| | Ant2 | 5240 | 1.87 | ≤16.19 | PASS |
| | Ant1 | 5745 | 14.85 | ≤16.19 | PASS |
| | Ant2 | 5745 | 14.74 | ≤16.19 | PASS |
| | Ant1 | 5785 | 14.54 | ≤16.19 | PASS |
| | Ant2 | 5785 | 14.43 | ≤16.19 | PASS |
| | Ant1 | 5825 | 13.96 | ≤16.19 | PASS |
| | Ant2 | 5825 | 14.17 | ≤16.19 | PASS |
| 11AC40SISO | Ant1 | 5190 | 2.14 | ≤16.19 | PASS |
| | Ant2 | 5190 | 1.67 | ≤16.19 | PASS |
| | Ant1 | 5230 | 2.12 | ≤16.19 | PASS |
| | Ant2 | 5230 | 1.83 | ≤16.19 | PASS |
| | Ant1 | 5755 | 14.81 | ≤16.19 | PASS |
| | Ant2 | 5755 | 15.93 | ≤16.19 | PASS |
| | Ant1 | 5795 | 13.85 | ≤16.19 | PASS |
| | Ant2 | 5795 | 15.77 | ≤16.19 | PASS |
| 11AC80SISO | Ant1 | 5210 | 1.92 | ≤16.19 | PASS |
| | Ant2 | 5210 | 1.93 | ≤16.19 | PASS |
| | Ant1 | 5775 | 14.07 | ≤16.19 | PASS |
| | Ant2 | 5775 | 14.91 | ≤16.19 | PASS |
| 11AX20SISO | Ant1 | 5180 | 1.72 | ≤16.19 | PASS |
| | Ant2 | 5180 | 1.33 | ≤16.19 | PASS |
| | Ant1 | 5200 | 1.63 | ≤16.19 | PASS |
| | Ant2 | 5200 | 1.49 | ≤16.19 | PASS |
| | Ant1 | 5240 | 1.74 | ≤16.19 | PASS |
| | Ant2 | 5240 | 1.66 | ≤16.19 | PASS |
| | Ant1 | 5745 | 14.94 | ≤16.19 | PASS |
| | Ant2 | 5745 | 15.30 | ≤16.19 | PASS |
| | Ant1 | 5785 | 13.78 | ≤16.19 | PASS |
| | Ant2 | 5785 | 15.09 | ≤16.19 | PASS |
| | Ant1 | 5825 | 13.28 | ≤16.19 | PASS |
| | Ant2 | 5825 | 14.83 | ≤16.19 | PASS |
| 11AX40SISO | Ant1 | 5190 | 1.80 | ≤16.19 | PASS |
| | Ant2 | 5190 | 1.74 | ≤16.19 | PASS |
| | Ant1 | 5230 | 1.90 | ≤16.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5230 | 1.73 | ≤16.19 | PASS |
| | Ant1 | 5755 | 14.95 | ≤16.19 | PASS |
| | Ant2 | 5755 | 15.51 | ≤16.19 | PASS |
| | Ant1 | 5795 | 14.03 | ≤16.19 | PASS |
| | Ant2 | 5795 | 15.37 | ≤16.19 | PASS |
| 11AX80SISO | Ant1 | 5210 | 1.84 | ≤16.19 | PASS |
| | Ant2 | 5210 | 1.82 | ≤16.19 | PASS |
| | Ant1 | 5775 | 14.29 | ≤16.19 | PASS |
| | Ant2 | 5775 | 15.03 | ≤16.19 | PASS |
| 11A-CDD | Ant1 | 5180 | -0.64 | ≤16.19 | PASS |
| | Ant2 | 5180 | -1.58 | ≤16.19 | PASS |
| | total | 5180 | 1.93 | ≤13.18 | PASS |
| | Ant1 | 5200 | -0.70 | ≤16.19 | PASS |
| | Ant2 | 5200 | -1.28 | ≤16.19 | PASS |
| | total | 5200 | 2.03 | ≤13.18 | PASS |
| | Ant1 | 5240 | -0.35 | ≤16.19 | PASS |
| | Ant2 | 5240 | -0.88 | ≤16.19 | PASS |
| | total | 5240 | 2.40 | ≤13.18 | PASS |
| | Ant1 | 5745 | 9.01 | ≤16.19 | PASS |
| | Ant2 | 5745 | 10.08 | ≤16.19 | PASS |
| | total | 5745 | 12.59 | ≤13.18 | PASS |
| | Ant1 | 5785 | 8.68 | ≤16.19 | PASS |
| | Ant2 | 5785 | 9.46 | ≤16.19 | PASS |
| | total | 5785 | 12.10 | ≤13.18 | PASS |
| | Ant1 | 5825 | 7.67 | ≤16.19 | PASS |
| | Ant2 | 5825 | 9.16 | ≤16.19 | PASS |
| | total | 5825 | 11.49 | ≤13.18 | PASS |
| 11N20MIMO | Ant1 | 5180 | -1.12 | ≤16.19 | PASS |
| | Ant2 | 5180 | -1.43 | ≤16.19 | PASS |
| | total | 5180 | 1.74 | ≤13.18 | PASS |
| | Ant1 | 5200 | -0.84 | ≤16.19 | PASS |
| | Ant2 | 5200 | -1.45 | ≤16.19 | PASS |
| | total | 5200 | 1.88 | ≤13.18 | PASS |
| | Ant1 | 5240 | -0.58 | ≤16.19 | PASS |
| | Ant2 | 5240 | -1.02 | ≤16.19 | PASS |
| | total | 5240 | 2.22 | ≤13.18 | PASS |
| | Ant1 | 5745 | 8.72 | ≤16.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5745 | 9.78 | ≤16.19 | PASS |
| | total | 5745 | 12.29 | ≤13.18 | PASS |
| | Ant1 | 5785 | 8.26 | ≤16.19 | PASS |
| | Ant2 | 5785 | 9.05 | ≤16.19 | PASS |
| | total | 5785 | 11.68 | ≤13.18 | PASS |
| | Ant1 | 5825 | 7.32 | ≤16.19 | PASS |
| | Ant2 | 5825 | 8.80 | ≤16.19 | PASS |
| | total | 5825 | 11.13 | ≤13.18 | PASS |
| 11N40MIMO | Ant1 | 5190 | -0.56 | ≤16.19 | PASS |
| | Ant2 | 5190 | -1.37 | ≤16.19 | PASS |
| | total | 5190 | 2.06 | ≤13.18 | PASS |
| | Ant1 | 5230 | -0.77 | ≤16.19 | PASS |
| | Ant2 | 5230 | -0.99 | ≤16.19 | PASS |
| | total | 5230 | 2.13 | ≤13.18 | PASS |
| | Ant1 | 5755 | 9.52 | ≤16.19 | PASS |
| | Ant2 | 5755 | 9.65 | ≤16.19 | PASS |
| | total | 5755 | 12.60 | ≤13.18 | PASS |
| | Ant1 | 5795 | 8.51 | ≤16.19 | PASS |
| | Ant2 | 5795 | 9.51 | ≤16.19 | PASS |
| | total | 5795 | 12.05 | ≤13.18 | PASS |
| 11AC20MIMO | Ant1 | 5180 | -0.61 | ≤16.19 | PASS |
| | Ant2 | 5180 | -1.39 | ≤16.19 | PASS |
| | total | 5180 | 2.03 | ≤13.18 | PASS |
| | Ant1 | 5200 | -0.58 | ≤16.19 | PASS |
| | Ant2 | 5200 | -1.21 | ≤16.19 | PASS |
| | total | 5200 | 2.13 | ≤13.18 | PASS |
| | Ant1 | 5240 | -0.50 | ≤16.19 | PASS |
| | Ant2 | 5240 | -0.98 | ≤16.19 | PASS |
| | total | 5240 | 2.28 | ≤13.18 | PASS |
| | Ant1 | 5745 | 8.77 | ≤16.19 | PASS |
| | Ant2 | 5745 | 9.80 | ≤16.19 | PASS |
| | total | 5745 | 12.33 | ≤13.18 | PASS |
| | Ant1 | 5785 | 8.35 | ≤16.19 | PASS |
| | Ant2 | 5785 | 9.11 | ≤16.19 | PASS |
| | total | 5785 | 11.76 | ≤13.18 | PASS |
| | Ant1 | 5825 | 7.44 | ≤16.19 | PASS |
| | Ant2 | 5825 | 8.92 | ≤16.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | total | 5825 | 11.25 | ≤13.18 | PASS |
| 11AC40MIMO | Ant1 | 5190 | -0.40 | ≤16.19 | PASS |
| | Ant2 | 5190 | -1.22 | ≤16.19 | PASS |
| | total | 5190 | 2.22 | ≤13.18 | PASS |
| | Ant1 | 5230 | -0.23 | ≤16.19 | PASS |
| | Ant2 | 5230 | -1.02 | ≤16.19 | PASS |
| | total | 5230 | 2.40 | ≤13.18 | PASS |
| | Ant1 | 5755 | 9.59 | ≤16.19 | PASS |
| | Ant2 | 5755 | 9.65 | ≤16.19 | PASS |
| | total | 5755 | 12.63 | ≤13.18 | PASS |
| | Ant1 | 5795 | 8.58 | ≤16.19 | PASS |
| | Ant2 | 5795 | 9.69 | ≤16.19 | PASS |
| | total | 5795 | 12.18 | ≤13.18 | PASS |
| 11AC80MIMO | Ant1 | 5210 | -0.23 | ≤16.19 | PASS |
| | Ant2 | 5210 | -0.86 | ≤16.19 | PASS |
| | total | 5210 | 2.48 | ≤13.18 | PASS |
| | Ant1 | 5775 | 8.53 | ≤16.19 | PASS |
| | Ant2 | 5775 | 9.24 | ≤16.19 | PASS |
| | total | 5775 | 11.91 | ≤13.18 | PASS |
| 11AX20MIMO | Ant1 | 5180 | -0.92 | ≤16.19 | PASS |
| | Ant2 | 5180 | -1.67 | ≤16.19 | PASS |
| | total | 5180 | 1.73 | ≤13.18 | PASS |
| | Ant1 | 5200 | -0.91 | ≤16.19 | PASS |
| | Ant2 | 5200 | -1.49 | ≤16.19 | PASS |
| | total | 5200 | 1.82 | ≤13.18 | PASS |
| | Ant1 | 5240 | -0.63 | ≤16.19 | PASS |
| | Ant2 | 5240 | -1.11 | ≤16.19 | PASS |
| | total | 5240 | 2.15 | ≤13.18 | PASS |
| | Ant1 | 5745 | 9.52 | ≤16.19 | PASS |
| | Ant2 | 5745 | 10.67 | ≤16.19 | PASS |
| | total | 5745 | 13.14 | ≤13.18 | PASS |
| | Ant1 | 5785 | 9.24 | ≤16.19 | PASS |
| | Ant2 | 5785 | 10.10 | ≤16.19 | PASS |
| | total | 5785 | 12.70 | ≤13.18 | PASS |
| | Ant1 | 5825 | 8.31 | ≤16.19 | PASS |
| | Ant2 | 5825 | 9.92 | ≤16.19 | PASS |
| | total | 5825 | 12.20 | ≤13.18 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| 11AX40MIMO | Ant1 | 5190 | -0.63 | ≤16.19 | PASS |
| | Ant2 | 5190 | -1.34 | ≤16.19 | PASS |
| | total | 5190 | 2.04 | ≤13.18 | PASS |
| | Ant1 | 5230 | -0.53 | ≤16.19 | PASS |
| | Ant2 | 5230 | -0.91 | ≤16.19 | PASS |
| | total | 5230 | 2.29 | ≤13.18 | PASS |
| | Ant1 | 5755 | 9.54 | ≤16.19 | PASS |
| | Ant2 | 5755 | 9.64 | ≤16.19 | PASS |
| | total | 5755 | 12.60 | ≤13.18 | PASS |
| | Ant1 | 5795 | 8.54 | ≤16.19 | PASS |
| | Ant2 | 5795 | 9.52 | ≤16.19 | PASS |
| | total | 5795 | 12.07 | ≤13.18 | PASS |
| 11AX80MIMO | Ant1 | 5210 | -0.47 | ≤16.19 | PASS |
| | Ant2 | 5210 | -1.07 | ≤16.19 | PASS |
| | total | 5210 | 2.25 | ≤13.18 | PASS |
| | Ant1 | 5775 | 8.63 | ≤16.19 | PASS |
| | Ant2 | 5775 | 9.48 | ≤16.19 | PASS |
| | total | 5775 | 12.09 | ≤13.18 | PASS |

Test Graphs see Appendix D.

The Duty Cycle Factor is compensated in the Offset of graph.

## 7.5. Transmit Power Control

### 7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

### 7.5.2. Test Procedure Used

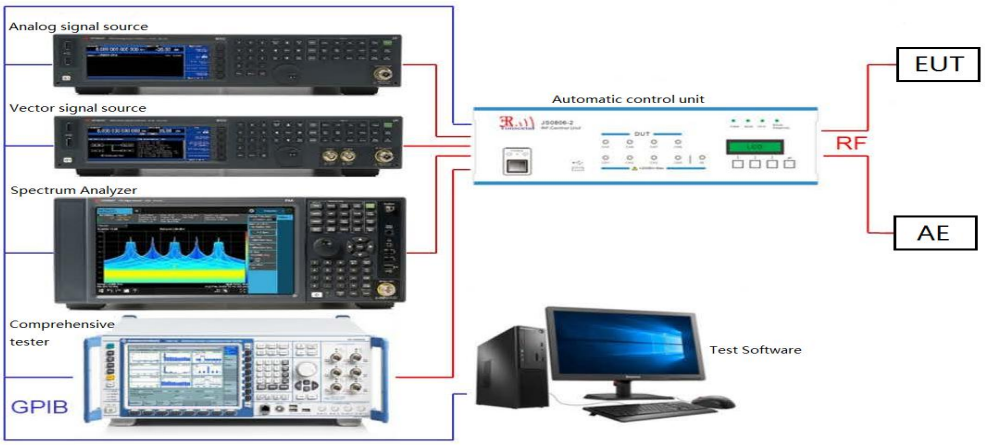
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

### 7.5.3. Test Setting

Average power measurements were perform only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### 7.5.4. Test Setup




### 7.5.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

## 7.6. Power Spectral Density Measurement

### 7.6.1. Test Limit

For an outdoor access point operating in the band 5.15-5.25 GHz, tthe 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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 7.6.2. Test Procedure Used

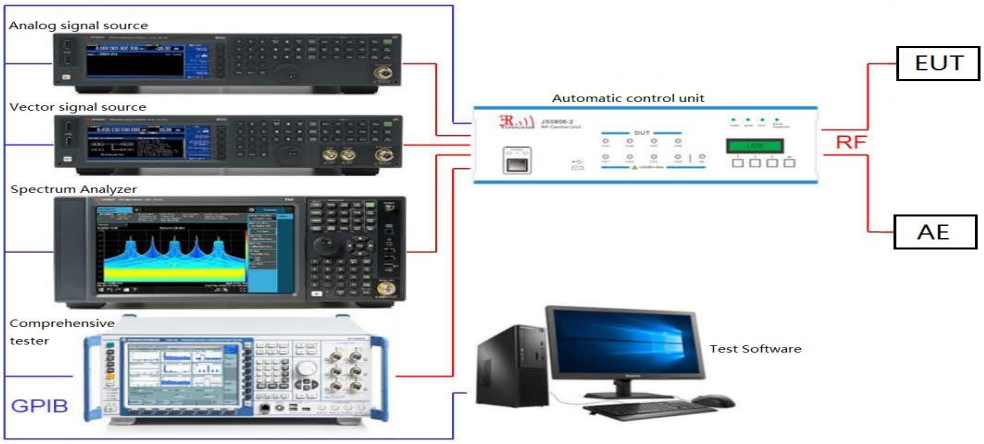
KDB 789033 D02v02r01 - Section F

ANSI C63.10-2013 - Section 12.3.2.2

### 7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points ≥ 2 × (span / RBW)
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add 10*log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10*log(1/0.25) = 6 dB if the duty cycle is 25 percent.
11. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor 10*log(500kHz/100kHz) = 7 dB to the measured result

### 7.6.4. Test Setup



### 7.6.5. Test Result

| Test Mode | Antenna | Channel | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | -7.17 | ≤3.19 | PASS |
| | Ant2 | 5180 | -7.47 | ≤3.19 | PASS |
| | Ant1 | 5200 | -6.75 | ≤3.19 | PASS |
| | Ant2 | 5200 | -7.01 | ≤3.19 | PASS |
| | Ant1 | 5240 | -6.56 | ≤3.19 | PASS |
| | Ant2 | 5240 | -6.97 | ≤3.19 | PASS |
| | Ant1 | 5745 | 3.12 | ≤16.19 | PASS |
| | Ant2 | 5745 | 3.95 | ≤16.19 | PASS |
| | Ant1 | 5785 | 2.86 | ≤16.19 | PASS |
| | Ant2 | 5785 | 3.07 | ≤16.19 | PASS |
| | Ant1 | 5825 | 2.68 | ≤16.19 | PASS |
| | Ant2 | 5825 | 3.11 | ≤16.19 | PASS |
| 11N20SISO | Ant1 | 5180 | -7.54 | ≤3.19 | PASS |
| | Ant2 | 5180 | -7.38 | ≤3.19 | PASS |
| | Ant1 | 5200 | -7.66 | ≤3.19 | PASS |
| | Ant2 | 5200 | -7.52 | ≤3.19 | PASS |
| | Ant1 | 5240 | -7.34 | ≤3.19 | PASS |
| | Ant2 | 5240 | -6.77 | ≤3.19 | PASS |
| | Ant1 | 5745 | 2.87 | ≤16.19 | PASS |
| | Ant2 | 5745 | 2.48 | ≤16.19 | PASS |
| | Ant1 | 5785 | 2.10 | ≤16.19 | PASS |
| | Ant2 | 5785 | 2.61 | ≤16.19 | PASS |
| | Ant1 | 5825 | 2.42 | ≤16.19 | PASS |
| | Ant2 | 5825 | 2.22 | ≤16.19 | PASS |
| 11N40SISO | Ant1 | 5190 | -10.28 | ≤3.19 | PASS |
| | Ant2 | 5190 | -10.64 | ≤3.19 | PASS |
| | Ant1 | 5230 | -10.16 | ≤3.19 | PASS |
| | Ant2 | 5230 | -9.89 | ≤3.19 | PASS |
| | Ant1 | 5755 | 1.29 | ≤16.19 | PASS |
| | Ant2 | 5755 | 1.26 | ≤16.19 | PASS |
| | Ant1 | 5795 | 0.95 | ≤16.19 | PASS |
| | Ant2 | 5795 | 1.57 | ≤16.19 | PASS |
| 11AC20SISO | Ant1 | 5180 | -6.88 | ≤3.19 | PASS |
| | Ant2 | 5180 | -7.47 | ≤3.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant1 | 5200 | -6.15 | ≤3.19 | PASS |
| | Ant2 | 5200 | -7.35 | ≤3.19 | PASS |
| | Ant1 | 5240 | -7.03 | ≤3.19 | PASS |
| | Ant2 | 5240 | -7.30 | ≤3.19 | PASS |
| | Ant1 | 5745 | 3.02 | ≤16.19 | PASS |
| | Ant2 | 5745 | 3.08 | ≤16.19 | PASS |
| | Ant1 | 5785 | 2.86 | ≤16.19 | PASS |
| | Ant2 | 5785 | 2.74 | ≤16.19 | PASS |
| | Ant1 | 5825 | 2.20 | ≤16.19 | PASS |
| | Ant2 | 5825 | 2.36 | ≤16.19 | PASS |
| 11AC40SISO | Ant1 | 5190 | -9.90 | ≤3.19 | PASS |
| | Ant2 | 5190 | -10.21 | ≤3.19 | PASS |
| | Ant1 | 5230 | -10.13 | ≤3.19 | PASS |
| | Ant2 | 5230 | -10.27 | ≤3.19 | PASS |
| | Ant1 | 5755 | -0.31 | ≤16.19 | PASS |
| | Ant2 | 5755 | 0.79 | ≤16.19 | PASS |
| | Ant1 | 5795 | -1.21 | ≤16.19 | PASS |
| | Ant2 | 5795 | 1.90 | ≤16.19 | PASS |
| 11AC80SISO | Ant1 | 5210 | -11.88 | ≤3.19 | PASS |
| | Ant2 | 5210 | -12.58 | ≤3.19 | PASS |
| | Ant1 | 5775 | -3.53 | ≤16.19 | PASS |
| | Ant2 | 5775 | -3.10 | ≤16.19 | PASS |
| 11AX20SISO | Ant1 | 5180 | -8.99 | ≤3.19 | PASS |
| | Ant2 | 5180 | -9.05 | ≤3.19 | PASS |
| | Ant1 | 5200 | -8.54 | ≤3.19 | PASS |
| | Ant2 | 5200 | -8.79 | ≤3.19 | PASS |
| | Ant1 | 5240 | -8.70 | ≤3.19 | PASS |
| | Ant2 | 5240 | -8.86 | ≤3.19 | PASS |
| | Ant1 | 5745 | 1.13 | ≤16.19 | PASS |
| | Ant2 | 5745 | 2.90 | ≤16.19 | PASS |
| | Ant1 | 5785 | 0.75 | ≤16.19 | PASS |
| | Ant2 | 5785 | 1.95 | ≤16.19 | PASS |
| | Ant1 | 5825 | 0.55 | ≤16.19 | PASS |
| | Ant2 | 5825 | 2.60 | ≤16.19 | PASS |
| 11AX40SISO | Ant1 | 5190 | -11.76 | ≤3.19 | PASS |
| | Ant2 | 5190 | -11.81 | ≤3.19 | PASS |
| | Ant1 | 5230 | -11.53 | ≤3.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5230 | -12.05 | ≤3.19 | PASS |
| | Ant1 | 5755 | -1.23 | ≤16.19 | PASS |
| | Ant2 | 5755 | -0.36 | ≤16.19 | PASS |
| | Ant1 | 5795 | -1.95 | ≤16.19 | PASS |
| | Ant2 | 5795 | -0.21 | ≤16.19 | PASS |
| 11AX80SISO | Ant1 | 5210 | -14.37 | ≤3.19 | PASS |
| | Ant2 | 5210 | -14.80 | ≤3.19 | PASS |
| | Ant1 | 5775 | -4.40 | ≤16.19 | PASS |
| | Ant2 | 5775 | -4.38 | ≤16.19 | PASS |
| 11A-CDD | Ant1 | 5180 | -9.46 | ≤3.19 | PASS |
| | Ant2 | 5180 | -9.87 | ≤3.19 | PASS |
| | total | 5180 | -6.65 | ≤0.18 | PASS |
| | Ant1 | 5200 | -9.62 | ≤3.19 | PASS |
| | Ant2 | 5200 | -10.16 | ≤3.19 | PASS |
| | total | 5200 | -6.87 | ≤0.18 | PASS |
| | Ant1 | 5240 | -9.30 | ≤3.19 | PASS |
| | Ant2 | 5240 | -9.41 | ≤3.19 | PASS |
| | total | 5240 | -6.34 | ≤0.18 | PASS |
| | Ant1 | 5745 | -2.61 | ≤16.19 | PASS |
| | Ant2 | 5745 | -1.29 | ≤16.19 | PASS |
| | total | 5745 | 1.11 | ≤13.18 | PASS |
| | Ant1 | 5785 | -2.29 | ≤16.19 | PASS |
| | Ant2 | 5785 | -1.72 | ≤16.19 | PASS |
| | total | 5785 | 1.01 | ≤13.18 | PASS |
| | Ant1 | 5825 | -3.70 | ≤16.19 | PASS |
| | Ant2 | 5825 | -1.49 | ≤16.19 | PASS |
| | total | 5825 | 0.55 | ≤13.18 | PASS |
| 11N20MIMO | Ant1 | 5180 | -10.09 | ≤3.19 | PASS |
| | Ant2 | 5180 | -10.68 | ≤3.19 | PASS |
| | total | 5180 | -7.36 | ≤0.18 | PASS |
| | Ant1 | 5200 | -9.69 | ≤3.19 | PASS |
| | Ant2 | 5200 | -10.49 | ≤3.19 | PASS |
| | total | 5200 | -7.06 | ≤0.18 | PASS |
| | Ant1 | 5240 | -9.56 | ≤3.19 | PASS |
| | Ant2 | 5240 | -9.95 | ≤3.19 | PASS |
| | total | 5240 | -6.74 | ≤0.18 | PASS |
| | Ant1 | 5745 | -3.31 | ≤16.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5745 | -1.97 | ≤16.19 | PASS |
| | total | 5745 | 0.42 | ≤13.18 | PASS |
| | Ant1 | 5785 | -3.48 | ≤16.19 | PASS |
| | Ant2 | 5785 | -2.75 | ≤16.19 | PASS |
| | total | 5785 | -0.09 | ≤13.18 | PASS |
| | Ant1 | 5825 | -4.43 | ≤16.19 | PASS |
| | Ant2 | 5825 | -2.60 | ≤16.19 | PASS |
| | total | 5825 | -0.41 | ≤13.18 | PASS |
| 11N40MIMO | Ant1 | 5190 | -12.46 | ≤3.19 | PASS |
| | Ant2 | 5190 | -13.63 | ≤3.19 | PASS |
| | total | 5190 | -10.00 | ≤0.18 | PASS |
| | Ant1 | 5230 | -12.99 | ≤3.19 | PASS |
| | Ant2 | 5230 | -12.31 | ≤3.19 | PASS |
| | total | 5230 | -9.63 | ≤0.18 | PASS |
| | Ant1 | 5755 | -4.72 | ≤16.19 | PASS |
| | Ant2 | 5755 | -4.38 | ≤16.19 | PASS |
| | total | 5755 | -1.54 | ≤13.18 | PASS |
| | Ant1 | 5795 | -6.13 | ≤16.19 | PASS |
| | Ant2 | 5795 | -4.87 | ≤16.19 | PASS |
| | total | 5795 | -2.44 | ≤13.18 | PASS |
| 11AC20MIMO | Ant1 | 5180 | -9.54 | ≤3.19 | PASS |
| | Ant2 | 5180 | -10.34 | ≤3.19 | PASS |
| | total | 5180 | -6.91 | ≤0.18 | PASS |
| | Ant1 | 5200 | -9.50 | ≤3.19 | PASS |
| | Ant2 | 5200 | -10.23 | ≤3.19 | PASS |
| | total | 5200 | -6.84 | ≤0.18 | PASS |
| | Ant1 | 5240 | -9.52 | ≤3.19 | PASS |
| | Ant2 | 5240 | -10.31 | ≤3.19 | PASS |
| | total | 5240 | -6.89 | ≤0.18 | PASS |
| | Ant1 | 5745 | -3.12 | ≤16.19 | PASS |
| | Ant2 | 5745 | -2.39 | ≤16.19 | PASS |
| | total | 5745 | 0.27 | ≤13.18 | PASS |
| | Ant1 | 5785 | -3.00 | ≤16.19 | PASS |
| | Ant2 | 5785 | -2.60 | ≤16.19 | PASS |
| | total | 5785 | 0.21 | ≤13.18 | PASS |
| | Ant1 | 5825 | -4.29 | ≤16.19 | PASS |
| | Ant2 | 5825 | -2.52 | ≤16.19 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | total | 5825 | -0.31 | ≤13.18 | PASS |
| 11AC40MIMO | Ant1 | 5190 | -12.41 | ≤3.19 | PASS |
| | Ant2 | 5190 | -13.34 | ≤3.19 | PASS |
| | total | 5190 | -9.84 | ≤0.18 | PASS |
| | Ant1 | 5230 | -12.34 | ≤3.19 | PASS |
| | Ant2 | 5230 | -13.08 | ≤3.19 | PASS |
| | total | 5230 | -9.68 | ≤0.18 | PASS |
| | Ant1 | 5755 | -5.41 | ≤16.19 | PASS |
| | Ant2 | 5755 | -5.16 | ≤16.19 | PASS |
| | total | 5755 | -2.27 | ≤13.18 | PASS |
| | Ant1 | 5795 | -5.59 | ≤16.19 | PASS |
| | Ant2 | 5795 | -4.36 | ≤16.19 | PASS |
| | total | 5795 | -1.92 | ≤13.18 | PASS |
| 11AC80MIMO | Ant1 | 5210 | -15.16 | ≤3.19 | PASS |
| | Ant2 | 5210 | -14.86 | ≤3.19 | PASS |
| | total | 5210 | -12.00 | ≤0.18 | PASS |
| | Ant1 | 5775 | -9.52 | ≤16.19 | PASS |
| | Ant2 | 5775 | -8.62 | ≤16.19 | PASS |
| | total | 5775 | -6.04 | ≤13.18 | PASS |
| 11AX20MIMO | Ant1 | 5180 | -11.38 | ≤3.19 | PASS |
| | Ant2 | 5180 | -11.68 | ≤3.19 | PASS |
| | total | 5180 | -8.52 | ≤0.18 | PASS |
| | Ant1 | 5200 | -11.42 | ≤3.19 | PASS |
| | Ant2 | 5200 | -11.60 | ≤3.19 | PASS |
| | total | 5200 | -8.50 | ≤0.18 | PASS |
| | Ant1 | 5240 | -11.28 | ≤3.19 | PASS |
| | Ant2 | 5240 | -11.25 | ≤3.19 | PASS |
| | total | 5240 | -8.25 | ≤0.18 | PASS |
| | Ant1 | 5745 | -3.94 | ≤16.19 | PASS |
| | Ant2 | 5745 | -2.89 | ≤16.19 | PASS |
| | total | 5745 | -0.37 | ≤13.18 | PASS |
| | Ant1 | 5785 | -3.14 | ≤16.19 | PASS |
| | Ant2 | 5785 | -3.26 | ≤16.19 | PASS |
| | total | 5785 | -0.19 | ≤13.18 | PASS |
| | Ant1 | 5825 | -4.87 | ≤16.19 | PASS |
| | Ant2 | 5825 | -2.91 | ≤16.19 | PASS |
| | total | 5825 | -0.77 | ≤13.18 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| 11AX40MIMO | Ant1 | 5190 | -14.23 | ≤3.19 | PASS |
| | Ant2 | 5190 | -14.35 | ≤3.19 | PASS |
| | total | 5190 | -11.28 | ≤0.18 | PASS |
| | Ant1 | 5230 | -13.65 | ≤3.19 | PASS |
| | Ant2 | 5230 | -14.27 | ≤3.19 | PASS |
| | total | 5230 | -10.94 | ≤0.18 | PASS |
| | Ant1 | 5755 | -6.64 | ≤16.19 | PASS |
| | Ant2 | 5755 | -6.53 | ≤16.19 | PASS |
| | total | 5755 | -3.57 | ≤13.18 | PASS |
| | Ant1 | 5795 | -7.18 | ≤16.19 | PASS |
| | Ant2 | 5795 | -6.83 | ≤16.19 | PASS |
| | total | 5795 | -3.99 | ≤13.18 | PASS |
| 11AX80MIMO | Ant1 | 5210 | -17.09 | ≤3.19 | PASS |
| | Ant2 | 5210 | -16.36 | ≤3.19 | PASS |
| | total | 5210 | -13.69 | ≤0.18 | PASS |
| | Ant1 | 5775 | -10.08 | ≤16.19 | PASS |
| | Ant2 | 5775 | -9.29 | ≤16.19 | PASS |
| | total | 5775 | -6.66 | ≤13.18 | PASS |

Test Graphs see Appendix E.

The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz,The Factor=10*log(500/300)=2.22 is compensated in the Offset of graph.

The Duty Cycle Factor is compensated in the Offset of graph.

## 7.7. Frequency Stability Measurement

### 7.7.1. Test Limit

Manufactures 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 user's manual.

### 7.7.2. Test Procedure Used

**Frequency Stability Under Temperature Variations:**

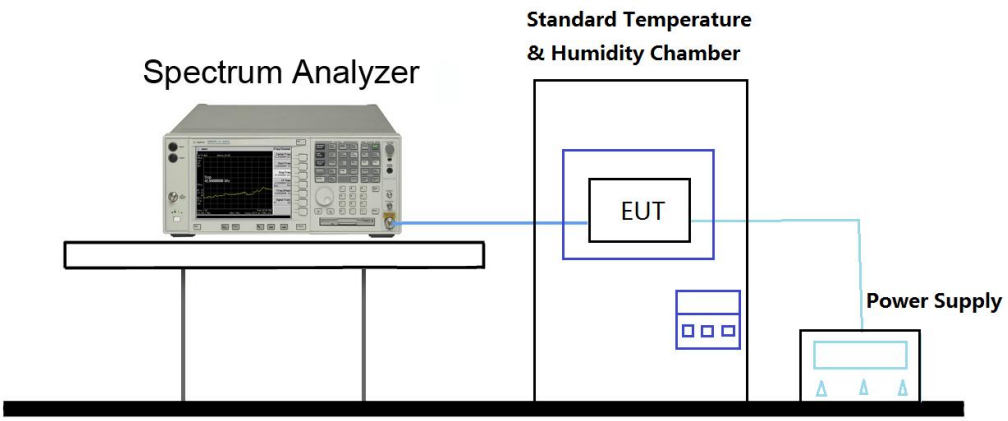
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain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

**Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

### 7.7.3. Test Setup



### 7.7.4. Test Result

| Voltage | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Mode | Antenna | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5180 | NV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant2 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.433476 | 20 | PASS |
| 11N20SISO | Ant1 | 5180 | NV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | LV | NT | 60000.00 | 11.583012 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | HV | NT | 40000.00 | 7.633588 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | -160000.00 | -27.657736 | 20 | FAIL |
| | Ant2 | 5785 | NV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.866953 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | 60000.00 | 10.300429 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | LV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.433476 | 20 | PASS |
| 11N40SISO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | 40000.00 | 7.707129 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -40000.00 | -7.707129 | 20 | PASS |
| | Ant1 | 5230 | NV | NT | -40000.00 | -7.648184 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | | | LV | NT | 40000.00 | 6.902502 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.902502 | 20 | PASS |
| 11AC20SISO | Ant1 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 40000.00 | 7.722008 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.846154 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.816794 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | 20000.00 | 3.816794 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | LV | NT | 40000.00 | 6.962576 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.433476 | 20 | PASS |
| 11AC40SISO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 40000.00 | 7.707129 | 20 | PASS |
| | | | HV | NT | 40000.00 | 7.707129 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | -40000.00 | -7.707129 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 7.707129 | 20 | PASS |
| | Ant1 | 5230 | NV | NT | 40000.00 | 7.648184 | 20 | PASS |
| | | | LV | NT | -40000.00 | -7.648184 | 20 | PASS |
| | | | HV | NT | 40000.00 | 7.648184 | 20 | PASS |
| | Ant2 | 5230 | NV | NT | -40000.00 | -7.648184 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 80000.00 | 15.296367 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant1 | 5755 | NV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | Ant1 | 5795 | NV | NT | 40000.00 | 6.902502 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.902502 | 20 | PASS |
| | Ant2 | 5795 | NV | NT | 40000.00 | 6.902502 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AC80SISO | Ant1 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5775 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | NT | 80000.00 | 13.852814 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -80000.00 | -13.852814 | 20 | PASS |
| 11AX20SISO | Ant1 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AX40SISO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AX80SISO | Ant1 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5775 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11A-CDD | Ant1 | 5180 | NV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant2 | 5240 | NV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.433476 | 20 | PASS |
| 11N20MIMO | Ant1 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | -40000.00 | -7.633588 | 20 | PASS |
| | | | LV | NT | -140000.00 | -26.717557 | 20 | FAIL |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | 20000.00 | 3.816794 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11N40MIMO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 7.648184 | 20 | PASS |
| | Ant2 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 80000.00 | 13.900956 | 20 | PASS |
| | Ant2 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 40000.00 | 6.950478 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | HV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | Ant1 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 40000.00 | 6.902502 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | Ant2 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 80000.00 | 13.805004 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AC20MIMO | Ant1 | 5180 | NV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 20000.00 | 3.861004 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.816794 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.914434 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant1 | 5825 | NV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.433476 | 20 | PASS |
| 11AC40MIMO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 40000.00 | 7.648184 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 7.648184 | 20 | PASS |
| | Ant1 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | Ant2 | 5755 | NV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.902502 | 20 | PASS |
| 11AC80MIMO | Ant1 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5210 | NV | NT | -80000.00 | -15.355086 | 20 | PASS |
| | | | LV | NT | 80000.00 | 15.355086 | 20 | PASS |
| | | | HV | NT | 80000.00 | 15.355086 | 20 | PASS |
| | Ant1 | 5775 | NV | NT | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | LV | NT | -80000.00 | -13.852814 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | NT | -80000.00 | -13.852814 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 80000.00 | 13.852814 | 20 | PASS |
| 11AX20MIMO | Ant1 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | 20000.00 | 3.816794 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.816794 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | 20000.00 | 3.816794 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.481288 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | LV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | HV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | 20000.00 | 3.433476 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.433476 | 20 | PASS |
| 11AX40MIMO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 40000.00 | 6.902502 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AX80MIMO | Ant1 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5775 | NV | NT | 80000.00 | 13.852814 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant2 | 5775 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -80000.00 | -13.852814 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *$10^6$.

| Temperature | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Mode | Antenna | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.846154 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.846154 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11N20SISO | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -7.722008 | 20 | PASS |
| | | | NV | 10 | 180000.00 | 34.749035 | 20 | FAIL |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 7.722008 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.692308 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.846154 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant1 | 5240 | NV | -30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.816794 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 0 | 160000.00 | 27.850305 | 20 | FAIL |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | -20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -10 | -60000.00 | -10.371651 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 6.914434 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.457217 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 6.914434 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | 40000.00 | 6.866953 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.433476 | 20 | PASS |
| 11N40SISO | Ant1 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -7.707129 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | -30 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | -30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | -30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | -30 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 6.950478 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -6.902502 | 20 | PASS |
| 11AC20SISO | Ant1 | 5180 | NV | -30 | 40000.00 | 7.722008 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.861004 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 10 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.861004 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 7.692308 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 20 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.816794 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.457217 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.914434 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11AC40SISO | Ant1 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 7.707129 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 40 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 7.707129 | 20 | PASS |
| | Ant2 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | -30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 7.648184 | 20 | PASS |
| | Ant2 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 50 | 40000.00 | 6.950478 | 20 | PASS |
| | Ant2 | 5755 | NV | -30 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.902502 | 20 | PASS |
| | Ant2 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11AC80SISO | Ant1 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant2 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -15.355086 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -80000.00 | -15.355086 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 80000.00 | 15.355086 | 20 | PASS |
| | Ant1 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 20 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 30 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 40 | -240000.00 | -41.558442 | 20 | FAIL |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11AX20SISO | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.846154 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.433476 | 20 | PASS |
| 11AX40SISO | Ant1 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11AX80SISO | Ant1 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11A-CDD | Ant1 | 5180 | NV | -30 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.861004 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.861004 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.846154 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.846154 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant1 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| 11N20MIMO | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 7.722008 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.722008 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 7.722008 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.861004 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | -180000.00 | -34.615385 | 20 | FAIL |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.692308 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | -140000.00 | -26.923077 | 20 | FAIL |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 7.633588 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 50 | 60000.00 | 11.450382 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 6.962576 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.962576 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.914434 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.433476 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 0 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.433476 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.866953 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| 11N40MIMO | Ant1 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -7.707129 | 20 | PASS |
| | Ant1 | 5230 | NV | -30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -7.648184 | 20 | PASS |
| | Ant1 | 5755 | NV | -30 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.950478 | 20 | PASS |
| | Ant1 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.902502 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.902502 | 20 | PASS |
| | Ant2 | 5795 | NV | -30 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11AC20MIMO | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.861004 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.846154 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 30 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | -20000.00 | -3.846154 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.846154 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.816794 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.816794 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.914434 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| 11AC40MIMO | Ant1 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 7.707129 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 7.707129 | 20 | PASS |
| | Ant1 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -7.648184 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Ant2 | 5230 | NV | -30 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | -20 | 40000.00 | 7.648184 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 7.648184 | 20 | PASS |
| | Ant1 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | -30 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | -20 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | -30 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.902502 | 20 | PASS |
| | | | NV | 50 | 40000.00 | 6.902502 | 20 | PASS |
| 11AC80MIMO | Ant1 | 5210 | NV | -30 | -80000.00 | -15.355086 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -15.355086 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 80000.00 | 15.355086 | 20 | PASS |
| | | | NV | 50 | 80000.00 | 15.355086 | 20 | PASS |
| | Ant2 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 80000.00 | 15.355086 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -15.355086 | 20 | PASS |
| | | | NV | 20 | 80000.00 | 15.355086 | 20 | PASS |
| | | | NV | 30 | 80000.00 | 15.355086 | 20 | PASS |
| | | | NV | 40 | 80000.00 | 15.355086 | 20 | PASS |
| | | | NV | 50 | -80000.00 | -15.355086 | 20 | PASS |
| | Ant1 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 80000.00 | 13.852814 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 20 | -480000.00 | -83.116883 | 20 | FAIL |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 50 | 80000.00 | 13.852814 | 20 | PASS |
| 11AX20MIMO | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.861004 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5200 | NV | -30 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.846154 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5200 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5240 | NV | -30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5240 | NV | -30 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.816794 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.816794 | 20 | PASS |
| | Ant1 | 5745 | NV | -30 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5745 | NV | -30 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.481288 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 10 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.481288 | 20 | PASS |
| | Ant1 | 5785 | NV | -30 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.457217 | 20 | PASS |
| | Ant2 | 5785 | NV | -30 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.457217 | 20 | PASS |
| | Ant1 | 5825 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5825 | NV | -30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.433476 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.433476 | 20 | PASS |
| 11AX40MIMO | Ant1 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5190 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5230 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |

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|---|---|---|---|---|---|---|---|---|
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5795 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11AX80MIMO | Ant1 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -80000.00 | -15.355086 | 20 | PASS |
| | Ant2 | 5210 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant1 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | Ant2 | 5775 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *$10^6$.

## 7.8. Radiated Spurious Emission Measurement

### 7.8.1. Test Limit

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

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

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

(4) For transmitters operating solely in the 5.725–5.850 GHz band:

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

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 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 |

### 7.8.2. Test Procedure Used

KDB 789033 D02v02r01 – Section G

ANSI C63.10-2013 – Section 12.7.7.2, 12.7.7.6, 12.7.5

### 7.8.3. Test Setting

**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Quasi-Peak Measurements below 1GHz**

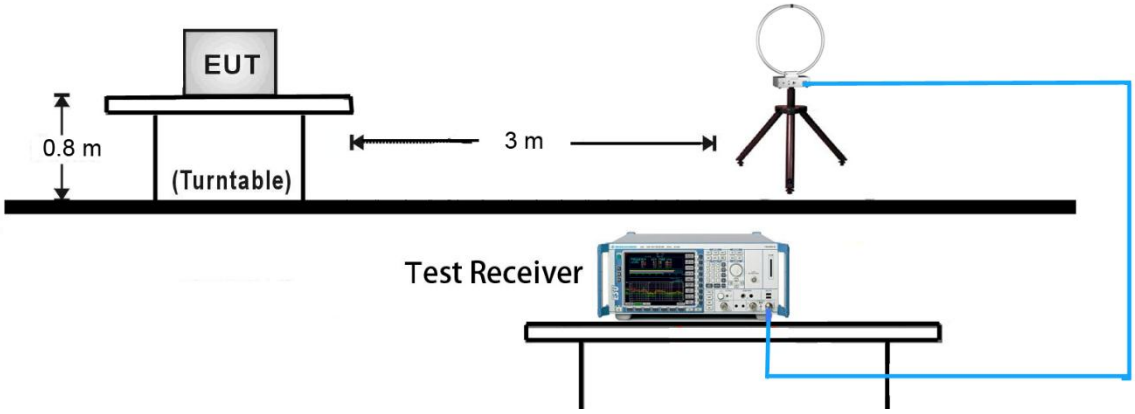
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method AD)**

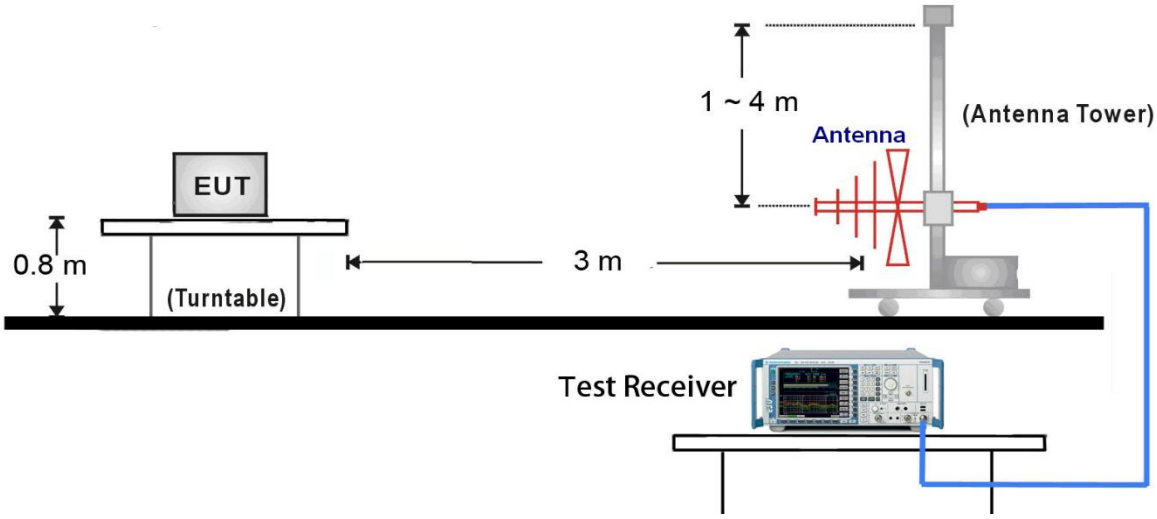
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be > 2 x span/RBW)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

### 7.8.4. Test Setup

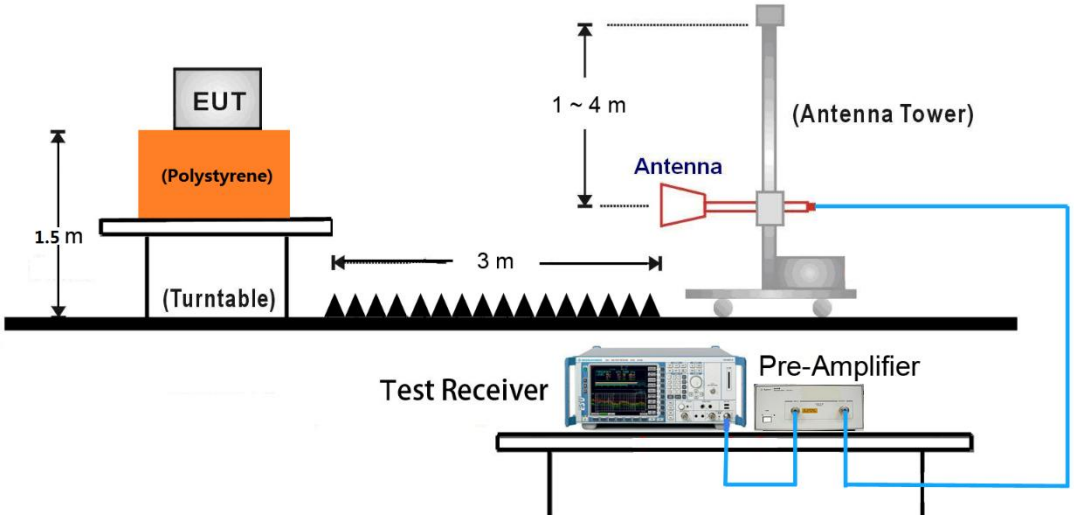
9kHz ~ 30MHz Test Setup:



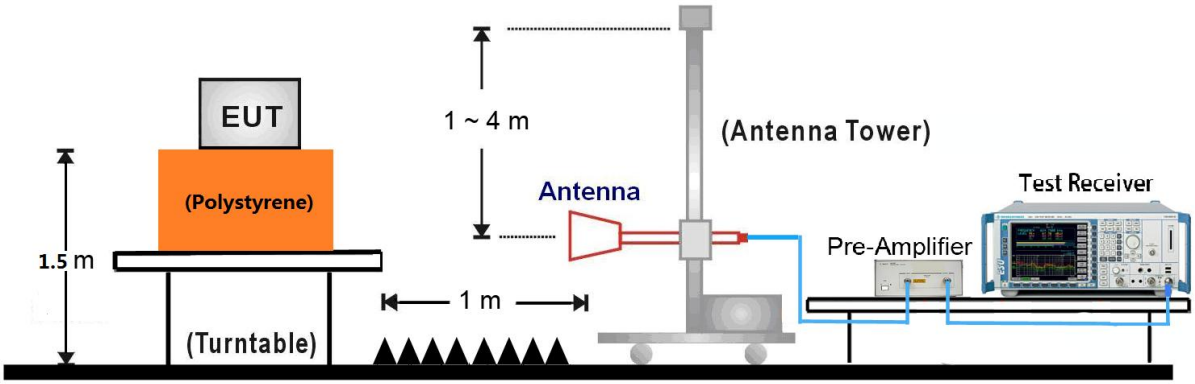

30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:




18GHz ~40GHz Test Setup:



### 7.8.5. Test Result

**There are three types of antennas for the Wireless Router Module. The antennas are DR5G15, DR5G17 and DR5G19 were tested, the report only show the worst case data.**

The Conducted Spurious Emission test data:

| Test Mode | Antenna | Channel | Frequency Range [MHz] | Max. Frequency [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 30~5140 | 1766.38 | -53.3 | ≤-27 | PASS |
| | | | 5360~40000 | 38161.77 | -49.39 | ≤-27 | PASS |
| | Ant2 | 5180 | 30~5140 | 4800.36 | -52.97 | ≤-27 | PASS |
| | | | 5360~40000 | 38940.02 | -50.07 | ≤-27 | PASS |
| | Ant1 | 5200 | 30~5140 | 5102.02 | -54.17 | ≤-27 | PASS |
| | | | 5360~40000 | 38115.58 | -49.84 | ≤-27 | PASS |
| | Ant2 | 5200 | 30~5140 | 4800.36 | -53.75 | ≤-27 | PASS |
| | | | 5360~40000 | 38898.45 | -49.75 | ≤-27 | PASS |
| | Ant1 | 5240 | 30~5140 | 4800.36 | -54.68 | ≤-27 | PASS |
| | | | 5360~40000 | 37908.9 | -49.48 | ≤-27 | PASS |
| | Ant2 | 5240 | 30~5140 | 4800.01 | -52.62 | ≤-27 | PASS |
| | | | 5360~40000 | 38478.15 | -50.34 | ≤-27 | PASS |
| | Ant1 | 5745 | 30~5650 | 4800.07 | -43.52 | ≤-27 | PASS |
| | | | 5925~40000 | 38167.9 | -48.59 | ≤-27 | PASS |
| | Ant2 | 5745 | 30~5650 | 4800.44 | -44.52 | ≤-27 | PASS |
| | | | 5925~40000 | 5936.36 | -46.68 | ≤-27 | PASS |
| | Ant1 | 5785 | 30~5650 | 4800.26 | -44.16 | ≤-27 | PASS |
| | | | 5925~40000 | 38495.02 | -49.48 | ≤-27 | PASS |
| | Ant2 | 5785 | 30~5650 | 4800.07 | -44.37 | ≤-27 | PASS |
| | | | 5925~40000 | 5979.52 | -46.16 | ≤-27 | PASS |
| | Ant1 | 5825 | 30~5650 | 4800.07 | -43.49 | ≤-27 | PASS |
| | | | 5925~40000 | 38865.3 | -49.26 | ≤-27 | PASS |
| | Ant2 | 5825 | 30~5650 | 4800.26 | -44.62 | ≤-27 | PASS |
| | | | 5925~40000 | 6019.27 | -45.79 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5180 | 30~5140 | 5024.51 | -55.7 | ≤-27 | PASS |
| | | | 5360~40000 | 38931.93 | -49.55 | ≤-27 | PASS |
| | Ant2 | 5180 | 30~5140 | 4800.01 | -52.19 | ≤-27 | PASS |
| | | | 5360~40000 | 38234.51 | -49.2 | ≤-27 | PASS |
| | Ant1 | 5200 | 30~5140 | 4800.19 | -54.79 | ≤-27 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 5360~40000 | 38040.53 | -50.11 | ≤-27 | PASS |
| | Ant2 | 5200 | 30~5140 | 4800.36 | -53.6 | ≤-27 | PASS |
| | | | 5360~40000 | 38970.04 | -49.4 | ≤-27 | PASS |
| | Ant1 | 5240 | 30~5140 | 4799.67 | -54.99 | ≤-27 | PASS |
| | | | 5360~40000 | 38053.23 | -49.51 | ≤-27 | PASS |
| | Ant2 | 5240 | 30~5140 | 4800.53 | -53.74 | ≤-27 | PASS |
| | | | 5360~40000 | 38944.63 | -49.2 | ≤-27 | PASS |
| | Ant1 | 5745 | 30~5650 | 4800.26 | -43.91 | ≤-27 | PASS |
| | | | 5925~40000 | 38100.89 | -48.84 | ≤-27 | PASS |
| | Ant2 | 5745 | 30~5650 | 4800.26 | -43.5 | ≤-27 | PASS |
| | | | 5925~40000 | 5940.9 | -46.96 | ≤-27 | PASS |
| | Ant1 | 5785 | 30~5650 | 4800.07 | -44.44 | ≤-27 | PASS |
| | | | 5925~40000 | 35462.35 | -49.27 | ≤-27 | PASS |
| | Ant2 | 5785 | 30~5650 | 4800.07 | -43.07 | ≤-27 | PASS |
| | | | 5925~40000 | 5976.11 | -46.54 | ≤-27 | PASS |
| | Ant1 | 5825 | 30~5650 | 4800.07 | -44.06 | ≤-27 | PASS |
| | | | 5925~40000 | 38948.22 | -49.58 | ≤-27 | PASS |
| | Ant2 | 5825 | 30~5650 | 4800.07 | -44.17 | ≤-27 | PASS |
| | | | 5925~40000 | 6015.87 | -47.39 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5190 | 30~5140 | 4800.53 | -55.58 | ≤-27 | PASS |
| | | | 5360~40000 | 38861.5 | -49.62 | ≤-27 | PASS |
| | Ant2 | 5190 | 30~5140 | 4800.19 | -53.68 | ≤-27 | PASS |
| | | | 5360~40000 | 38966.57 | -49.43 | ≤-27 | PASS |
| | Ant1 | 5230 | 30~5140 | 4800.19 | -53.84 | ≤-27 | PASS |
| | | | 5360~40000 | 38080.94 | -49.98 | ≤-27 | PASS |
| | Ant2 | 5230 | 30~5140 | 4800.19 | -52.25 | ≤-27 | PASS |
| | | | 5360~40000 | 38875.35 | -48.74 | ≤-27 | PASS |
| | Ant1 | 5755 | 30~5650 | 4800.26 | -43.49 | ≤-27 | PASS |
| | | | 5925~40000 | 38105.43 | -49.71 | ≤-27 | PASS |
| | Ant2 | 5755 | 30~5650 | 4800.07 | -43.79 | ≤-27 | PASS |
| | | | 5925~40000 | 38014.56 | -48.27 | ≤-27 | PASS |
| | Ant1 | 5795 | 30~5650 | 4800.26 | -41.51 | ≤-27 | PASS |
| | | | 5925~40000 | 38169.04 | -49.2 | ≤-27 | PASS |
| | Ant2 | 5795 | 30~5650 | 4800.26 | -43.29 | ≤-27 | PASS |
| | | | 5925~40000 | 5988.61 | -47.32 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5180 | 30~5140 | 5098.61 | -42.24 | ≤-27 | PASS |
| | | | 5360~40000 | 38978.12 | -49.84 | ≤-27 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant2 | 5180 | 30~5140 | 4800.01 | -53.26 | ≤-27 | PASS |
| | | | 5360~40000 | 38041.69 | -49.09 | ≤-27 | PASS |
| | Ant1 | 5200 | 30~5140 | 4800.36 | -54 | ≤-27 | PASS |
| | | | 5360~40000 | 38068.24 | -49.31 | ≤-27 | PASS |
| | Ant2 | 5200 | 30~5140 | 4800.19 | -53.07 | ≤-27 | PASS |
| | | | 5360~40000 | 38883.44 | -49.49 | ≤-27 | PASS |
| | Ant1 | 5240 | 30~5140 | 4800.01 | -54.43 | ≤-27 | PASS |
| | | | 5360~40000 | 38050.92 | -50.31 | ≤-27 | PASS |
| | Ant2 | 5240 | 30~5140 | 4800.36 | -52.93 | ≤-27 | PASS |
| | | | 5360~40000 | 38874.2 | -49.75 | ≤-27 | PASS |
| | Ant1 | 5745 | 30~5650 | 4800.07 | -46.06 | ≤-27 | PASS |
| | | | 5925~40000 | 38069.08 | -49.23 | ≤-27 | PASS |
| | Ant2 | 5745 | 30~5650 | 4800.26 | -44.45 | ≤-27 | PASS |
| | | | 5925~40000 | 5934.09 | -46.64 | ≤-27 | PASS |
| | Ant1 | 5785 | 30~5650 | 5104.49 | -44.59 | ≤-27 | PASS |
| | | | 5925~40000 | 38965.26 | -49.13 | ≤-27 | PASS |
| | Ant2 | 5785 | 30~5650 | 4800.26 | -44.42 | ≤-27 | PASS |
| | | | 5925~40000 | 5978.38 | -46.22 | ≤-27 | PASS |
| | Ant1 | 5825 | 30~5650 | 4800.07 | -46.92 | ≤-27 | PASS |
| | | | 5925~40000 | 38006.61 | -49.06 | ≤-27 | PASS |
| | Ant2 | 5825 | 30~5650 | 5630.7 | -44.11 | ≤-27 | PASS |
| | | | 5925~40000 | 6018.14 | -47.51 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5190 | 30~5140 | 4800.36 | -53.02 | ≤-27 | PASS |
| | | | 5360~40000 | 38905.38 | -49.7 | ≤-27 | PASS |
| | Ant2 | 5190 | 30~5140 | 4800.36 | -52.93 | ≤-27 | PASS |
| | | | 5360~40000 | 38881.13 | -49.53 | ≤-27 | PASS |
| | Ant1 | 5230 | 30~5140 | 4800.19 | -52.5 | ≤-27 | PASS |
| | | | 5360~40000 | 38065.93 | -49.24 | ≤-27 | PASS |
| | Ant2 | 5230 | 30~5140 | 4800.01 | -52.42 | ≤-27 | PASS |
| | | | 5360~40000 | 37901.97 | -50.05 | ≤-27 | PASS |
| | Ant1 | 5755 | 30~5650 | 4800.26 | -46.03 | ≤-27 | PASS |
| | | | 5925~40000 | 37920.29 | -50.87 | ≤-27 | PASS |
| | Ant2 | 5755 | 30~5650 | 4800.26 | -43.51 | ≤-27 | PASS |
| | | | 5925~40000 | 5949.99 | -49.09 | ≤-27 | PASS |
| | Ant1 | 5795 | 30~5650 | 4800.07 | -42.97 | ≤-27 | PASS |
| | | | 5925~40000 | 38028.19 | -49.11 | ≤-27 | PASS |
| | Ant2 | 5795 | 30~5650 | 4800.07 | -43.31 | ≤-27 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 5925~40000 | 5989.74 | -46.91 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | 5210 | 30~5140 | 5048.19 | -55.73 | ≤-27 | PASS |
| | | | 5360~40000 | 38068.24 | -50.08 | ≤-27 | PASS |
| | Ant2 | 5210 | 30~5140 | 5113.6 | -55.69 | ≤-27 | PASS |
| | | | 5360~40000 | 37958.55 | -49.44 | ≤-27 | PASS |
| | Ant1 | 5775 | 30~5650 | 5280.02 | -45.84 | ≤-27 | PASS |
| | | | 5925~40000 | 38940.27 | -48.95 | ≤-27 | PASS |
| | Ant2 | 5775 | 30~5650 | 5591.18 | -49.77 | ≤-27 | PASS |
| | | | 5925~40000 | 38052.05 | -48.69 | ≤-27 | PASS |
| 11AX20SISO | Ant1 | 5180 | 30~5140 | 4800.36 | -54.46 | ≤-27 | PASS |
| | | | 5360~40000 | 38919.23 | -49.86 | ≤-27 | PASS |
| | Ant2 | 5180 | 30~5140 | 4800.01 | -52.97 | ≤-27 | PASS |
| | | | 5360~40000 | 38343.05 | -49.44 | ≤-27 | PASS |
| | Ant1 | 5200 | 30~5140 | 4800.7 | -53.97 | ≤-27 | PASS |
| | | | 5360~40000 | 38161.77 | -49.52 | ≤-27 | PASS |
| | Ant2 | 5200 | 30~5140 | 4800.19 | -52.66 | ≤-27 | PASS |
| | | | 5360~40000 | 38889.21 | -49.08 | ≤-27 | PASS |
| | Ant1 | 5240 | 30~5140 | 5097.25 | -48.05 | ≤-27 | PASS |
| | | | 5360~40000 | 38128.29 | -50.08 | ≤-27 | PASS |
| | Ant2 | 5240 | 30~5140 | 4800.19 | -52.3 | ≤-27 | PASS |
| | | | 5360~40000 | 38752.96 | -49.54 | ≤-27 | PASS |
| | Ant1 | 5745 | 30~5650 | 4800.26 | -45.01 | ≤-27 | PASS |
| | | | 5925~40000 | 38049.77 | -50.23 | ≤-27 | PASS |
| | Ant2 | 5745 | 30~5650 | 4800.07 | -43.19 | ≤-27 | PASS |
| | | | 5925~40000 | 5944.31 | -48.14 | ≤-27 | PASS |
| | Ant1 | 5785 | 30~5650 | 4800.07 | -45.26 | ≤-27 | PASS |
| | | | 5925~40000 | 38991.38 | -48.45 | ≤-27 | PASS |
| | Ant2 | 5785 | 30~5650 | 5590.99 | -42.56 | ≤-27 | PASS |
| | | | 5925~40000 | 5973.84 | -46.33 | ≤-27 | PASS |
| | Ant1 | 5825 | 30~5650 | 4800.07 | -45.24 | ≤-27 | PASS |
| | | | 5925~40000 | 38858.49 | -50.2 | ≤-27 | PASS |
| | Ant2 | 5825 | 30~5650 | 4800.26 | -43.07 | ≤-27 | PASS |
| | | | 5925~40000 | 6011.32 | -47.41 | ≤-27 | PASS |
| 11AX40SISO | Ant1 | 5190 | 30~5140 | 4800.19 | -52.5 | ≤-27 | PASS |
| | | | 5360~40000 | 38897.29 | -48.33 | ≤-27 | PASS |
| | Ant2 | 5190 | 30~5140 | 4800.19 | -52.46 | ≤-27 | PASS |
| | | | 5360~40000 | 37120.26 | -49.59 | ≤-27 | PASS |