

Test Report

C9124AXI-B

**Cisco Catalyst C9124AX Series 802.11ax Access Point
5GHz Wi-Fi Radio**

FCC ID: LDK-HTIAK2282

5150-5250 MHz

Against the following Specifications:

CFR47 Part 15.407



Cisco Systems
170 West Tasman Drive
San Jose, CA 95134

| | |
|---|--|
| | |
| Author: Johanna Knudsen Tested By: Julian Land, Said Abdelwafi | Approved By: Sam Kim Title: Manager, Radio Compliance Revision: 4 |

This report replaces any previously entered test report under EDCS – 21541322. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system. Test Report Template EDCS# 11644122.

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| | |
|---|------------|
| SECTION 1: OVERVIEW | 3 |
| SECTION 2: ASSESSMENT INFORMATION | 4 |
| 2.1 GENERAL | 4 |
| 2.2 DATE OF TESTING..... | 6 |
| 2.3 REPORT ISSUE DATE | 6 |
| 2.4 TESTING FACILITIES | 6 |
| 2.5 EQUIPMENT ASSESSED (EUT)..... | 6 |
| 2.6 EUT DESCRIPTION..... | 7 |
| SECTION 3: RESULT SUMMARY..... | 8 |
| 3.1 RESULTS SUMMARY TABLE | 8 |
| SECTION 4: SAMPLE DETAILS..... | 13 |
| APPENDIX A: EMISSION TEST RESULTS | 14 |
| CONDUCTED TEST SETUP DIAGRAM..... | 14 |
| A.1 DUTY CYCLE | 15 |
| A.2 99% AND 26dB BANDWIDTH | 19 |
| A.3 MAXIMUM CONDUCTED OUTPUT POWER | 23 |
| A.4 POWER SPECTRAL DENSITY | 53 |
| A.5 CONDUCTED SPURIOUS EMISSIONS..... | 71 |
| A.6 CONDUCTED BAND EDGE | 108 |
| APPENDIX B: EMISSION TEST RESULTS | 127 |
| RADIATED EMISSION SETUP DIAGRAM-BELOW 1G | 127 |
| B.1 RADIATED SPURIOUS EMISSIONS | 128 |
| B.2 RADIATED EMISSIONS 30MHz TO 1GHz | 129 |
| B.3 AC CONDUCTED EMISSIONS | 130 |
| APPENDIX C: LIST OF TEST EQUIPMENT USED TO PERFORM THE TEST..... | 131 |
| APPENDIX D: ABBREVIATION KEY AND DEFINITIONS | 134 |
| APPENDIX E: PHOTOGRAPHS OF TEST SETUPS..... | 135 |
| APPENDIX F: SOFTWARE USED TO PERFORM TESTING | 135 |
| APPENDIX G: TEST PROCEDURES | 135 |
| APPENDIX H: SCOPE OF ACCREDITATION (A2LA CERTIFICATE NUMBER 1178-01) | 135 |
| APPENDIX I: TEST ASSESSMENT PLAN | 135 |
| APPENDIX J: WORST CASE JUSTIFICATION | 135 |

Section 1: Overview

The samples were assessed against the tests detailed in section 3 under the requirements of the following specifications:

| |
|------------------------|
| Specifications: |
| CFR47 Part 15.407 |

Section 2: Assessment Information

2.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on the samples submitted. The testing was performed by and for the use of Cisco systems Inc:

With regard to this assessment, the following points should be noted:

- a) The results contained in this report relate only to the items tested and were obtained in the period between the date of the initial assessment and the date of issue of the report. Manufactured products will not necessarily give identical results due to production and measurement tolerances.
- b) The apparatus was set up and exercised using the configuration and modes of operation defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report and the Test Assessment Plan (TAP).
- d) All testing was performed under the following environmental conditions:
 - Temperature 15°C to 35°C (54°F to 95°F)
 - Atmospheric Pressure 860mbar to 1060mbar (25.4" to 31.3")
 - Humidity 10% to 75%
- e) All AC testing was performed at one or more of the following supply voltages:
 - 110V 60 Hz (+/-20%)

Units of Measurement

The units of measurements defined in the appendices are reported in specific terms, which are test dependent. Where radiated measurements are concerned these are defined at a particular distance. Basic voltage measurements are defined in units of [dBuV]

As an example, the basic calculation for all measurements is as follows:

Emission level [dBuV] = Indicated voltage level [dBuV] + Cable Loss [dB] + Other correction factors [dB]

The combinations of correction factors are dependent upon the exact test configurations [see test equipment lists for further details] and may include:-

Antenna Factors, Pre Amplifier Gain, LISN Loss, Pulse Limiter Loss and Filter Insertion Loss..

Note: to convert the results from dBuV/m to uV/m use the following formula:-

Level in uV/m = Common Antilogarithm [(X dBuV/m)/20] = Y uV/m

Measurement Uncertainty Values

| | |
|-----------------------------------|-------------------------|
| voltage and power measurements | ± 2 dB |
| conducted EIRP measurements | ± 1.4 dB |
| radiated measurements | ± 3.2 dB |
| frequency measurements | $\pm 2.4 \cdot 10^{-7}$ |
| temperature measurements | $\pm 0.54^\circ$ |
| humidity measurements | $\pm 2.3\%$ |
| DC and low frequency measurements | $\pm 2.5\%$ |

Where relevant measurement uncertainty levels have been estimated for tests performed on the apparatus. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Radiated emissions (expanded uncertainty, confidence interval 95%)

| | |
|--------------------|--------------|
| 30 MHz - 300 MHz | ± 3.8 dB |
| 300 MHz - 1000 MHz | ± 4.3 dB |
| 1 GHz - 10 GHz | ± 4.0 dB |
| 10 GHz - 18GHz | ± 8.2 dB |
| 18GHz - 26.5GHz | ± 4.1 dB |
| 26.5GHz - 40GHz | ± 3.9 dB |

Conducted emissions (expanded uncertainty, confidence interval 95%)

| | |
|----------------|---------------|
| 30 MHz – 40GHz | ± 0.38 dB |
|----------------|---------------|

A product is considered to comply with a requirement if the nominal measured value is below the limit line.
The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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2.2 Date of testing

06-JAN-2021 through 09-APR-2021

2.3 Report Issue Date

13-MAY-2021

Cisco uses an electronic system to issue, store and control the revision of test reports. This system is called the Engineering Document Control System (EDCS). The actual report issue date is embedded into the original file on EDCS. Any copies of this report, either electronic or paper, that are not on EDCS must be considered uncontrolled.

2.4 Testing facilities

This assessment was performed by:

Testing Laboratory

Cisco Systems, Inc.
125 West Tasman Drive (Building P)
San Jose, CA 95134
USA

Headquarters

Cisco Systems, Inc.,
170 West Tasman Drive
San Jose, CA 95134,
USA

Registration Numbers for Industry Canada

| Cisco System Site | Address | Site Identifier |
|--------------------------|---|------------------------|
| Building P, 10m Chamber | 125 West Tasman Dr San Jose, CA 95134 | Company #: 2461N-2 |
| Building P, 5m Chamber | 125 West Tasman Dr San Jose, CA 95134 | Company #: 2461N-1 |
| Building 7, 5m Chamber | 425 E. Tasman Drive San Jose, California 95134 | Company #: 2461N-3 |

Test Engineers

Said Abdelwafi, Julian Land

2.5 Equipment Assessed (EUT)

C9124AXI

2.6 EUT Description

The Cisco Catalyst 9124AX Series outdoor access points are next-generation Wi-Fi 6 access points encased in a rugged and robust design that service providers and enterprises can easily deploy.

The radio supports the following modes of operation. The modes are further defined in the radio Theory of Operation. The modes included in this report represent the worst-case data for all modes.

802.11a (6-54Mbps)
802.11n HT20 (MCS0 – MCS31)
802.11n HT40 (MCS0 – MCS31)
802.11ac VHT20 (MCS0-MCS9, 4SS)
802.11ac VHT40 (MCS0-MCS9, 4SS)
802.11ac VHT80 (MCS0-MCS9, 4SS)
802.11ac VHT80+80 (MCS0-MCS9, 2SS Max)
802.11ax HE20 (MCS0-MCS11, 4SS)
802.11ax HE40 (MCS0-MCS11, 4SS)
802.11ax HE80 (MCS0-MCS11, 4SS)
802.11ax HE80+80 (MCS0-MCS9, 2SS Max)

The following antennas are supported by this product series. Please note, the antenna information has been provided by the customer (the Cisco business unit). The data included in this report represent the worst-case data for all antennas.

Ithaca (Internal Antenna) Model C9124AXI-x

| Frequency | Antenna Name | | Antenna Gain | |
|-----------------------|--------------|-----------------|--------------|-----------|
| 2.4GHz & 5GHz (Wi-Fi) | Antenna 1 | TX/RX: internal | 7dBi@2.4GHz | 7dBi@5GHz |
| 2.4GHz & 5GHz (Wi-Fi) | Antenna 2 | TX/RX: internal | 7dBi@2.4GHz | 7dBi@5GHz |
| 2.4GHz & 5GHz (Wi-Fi) | Antenna 3 | TX/RX: internal | 7dBi@2.4GHz | 7dBi@5GHz |
| 2.4GHz & 5GHz (Wi-Fi) | Antenna 4 | TX/RX: internal | 7dBi@2.4GHz | 7dBi@5GHz |
| BLE | Antenna T | TX/RX: internal | 5dBi | |
| 2.4GHz & 5GHz (Aux) | Antenna A | TX/RX: internal | 6dBi@2.4GHz | 7dBi@5GHz |
| 2.4GHz & 5GHz (Aux) | Antenna B | RX: internal | 6dBi@2.4GHz | 7dBi@5GHz |

Section 3: Result Summary

3.1 Results Summary Table

Conducted emissions

| Basic Standard | Technical Requirements / Details | Result |
|----------------|---|--------|
| FCC 15.407 | <p>99% & 26 dB Bandwidth: The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. There is no limit for 99% OBW.</p> <p>The 26 dB emission is the 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 26 dB relative to the maximum level measured in the fundamental emission.</p> | Pass |

| | | |
|------------|---|------|
| FCC 15.407 | <p>Output Power: (1) For the band 5.15-5.25 GHz.</p> <p>(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. ...If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power ...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).</p> <p>(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. ... 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.</p> <p>(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. ...Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</p> <p>(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> | Pass |
|------------|---|------|

| | | |
|--|---|------|
| FCC 15.407 | Power Spectral Density (i) For an outdoor access point operating in the band 5.15-5.25 GHz...the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). (ii) For an indoor access point operating in the band 5.15-5.25 GHz... the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz ...the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the ... maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. (iv) For mobile and portable client devices in the 5.15-5.25 GHz band...the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used... the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. | Pass |
| FCC 15.407 | Conducted Spurious Emissions / Band-Edge: 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 EIRP of -27dBm/MHz. | Pass |
| FCC 15.407 FCC 15.209 FCC 15.205 | Restricted band: Unwanted emissions falling within the restricted bands, as defined in FCC 15.205 (a) must also comply with the radiated emission limits specified in FCC 15.209 (a) | Pass |

Radiated Emissions (General requirements)

| Basic Standard | Technical Requirements / Details | Result |
|--------------------------|--|--|
| FCC 15.209 FCC 15.205 | TX Spurious Emissions: Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the field strength limits table in this section. | Not covered in the scope of this test report |
| FCC 15.207 | AC Conducted Emissions: Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries. | Not covered in the scope of this test report |

Section 4: Sample Details

Note: Each sample was evaluated to ensure that its condition was suitable to be used as a test sample prior to the commencement of testing.

4.1 Sample Details

| Sample No. | Equipment Details | Manufacturer | Hardware Rev. | Serial Number |
|------------|--------------------------------|------------------------|---------------|---------------|
| S01 | C9124AXI-B (used in Rack 2) | Foxconn (for Cisco) | 074-125082-01 | FOC243919TE |
| S02 | C9124AXI-B (used in Rack 8) | Foxconn (for Cisco) | 074-125082-01 | FOC24523WZG |
| S03 | C9124AXI-B (used in Rack 9) | Foxconn (for Cisco) | 074-125082-01 | FOC243919ZU |
| S04 | C9124AXI-B (used in Rack 4) | Foxconn (for Cisco) | 074-125082-01 | FOC243919PK |

4.2 System Details

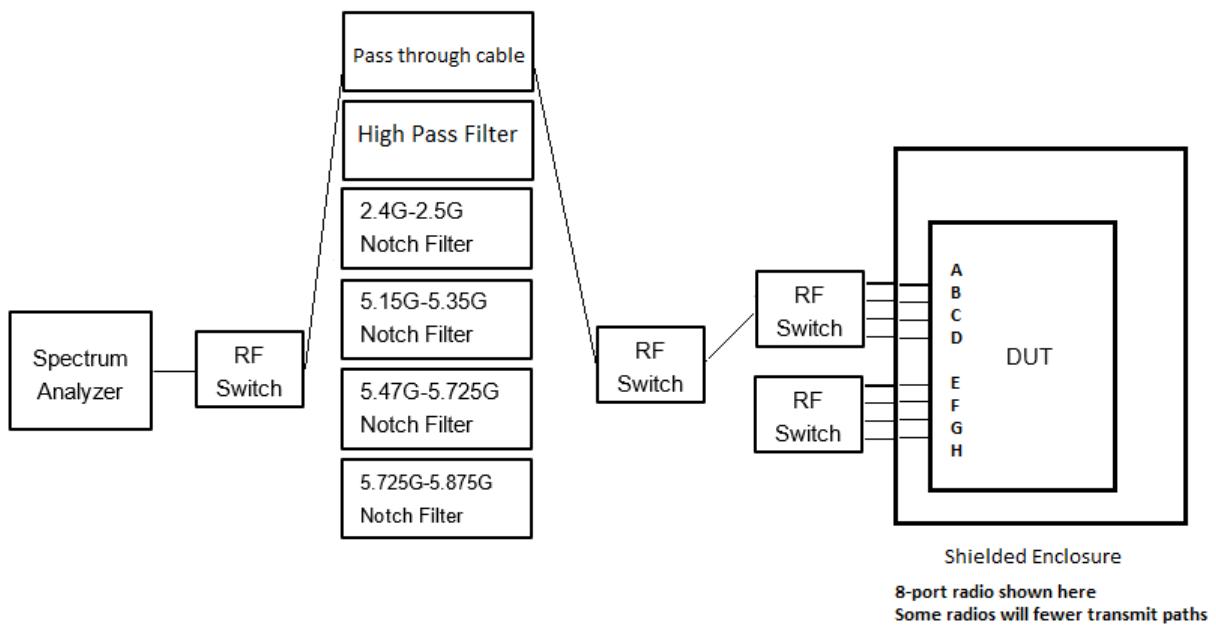
| System # | Description | Samples |
|----------|----------------------|---------|
| 1 | EUT (used in Rack 2) | S01 |
| 2 | EUT (used in Rack 8) | S02 |
| 3 | EUT (used in Rack 9) | S03 |
| 4 | EUT (used in Rack 4) | S04 |

4.3 Mode of Operation Details

| Mode# | Description | Comments |
|-------|---|---|
| 1 | Continuous Transmit Testing using Rack 2 | AP Running Image: 8.8.1.10 Cisco AP Software, (ap1g6a), [cheetah-build9:/san1/BUILD/workspace/c175_throttle_mfg/label/mfg-ap1g6a] Compiled Sun Feb 28 19:54:52 GMT 2021 |
| 2 | Continuous Transmit Testing using Rack 8 | AP Running Image: 8.8.1.10 Cisco AP Software, (ap1g6a), [sjc-ads-9175:/nobackup/rahulsi6/ithaca/c175_throttle/router] Compiled Wed Feb 17 19:47:58 PST 2021 |
| 3 | Continuous Transmit Testing using Rack 9 | AP Running Image: 8.8.1.10 Cisco AP Software, (ap1g6a), [sjc-ads-9175:/nobackup/rahulsi6/ithaca/c175_throttle/router] Compiled Wed Feb 17 19:47:58 PST 2021 |
| 4 | Continuous Transmit Testing using Rack 4 | AP Running Image: 8.8.1.10 Cisco AP Software, (ap1g6a), [cheetah-build9:/san1/BUILD/workspace/c175_throttle_mfg/label/mfg-ap1g6a] Compiled Sun Mar 7 19:58:16 GMT 2021 |

Appendix A: Emission Test Results

Conducted Test Setup Diagram



A.1 Duty Cycle

Duty Cycle Test Requirement

From KDB 789033 D02 General UNII Test Procedures New Rules v02r01

B. Duty Cycle (x), Transmission Duration (T), and Maximum Power Control Level

1. All measurements are to be performed with the EUT transmitting at 100 percent duty cycle at its maximum power control level; however, if 100 percent duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.

Duty Cycle Test Method

From KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

B. Duty Cycle (x), Transmission Duration (T), and Maximum Power Control Level

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq EBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in section II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

Duty Cycle Test Information

| | |
|---|--|
| Tested By : Said Abdelwafi, Julian Land | Date of testing: 12-JAN-2021 through 19-JAN-2021 08-MAR-2021 through 12-MAR-2021 08-APR-2021 through 09-APR-2021 |
| Test Result : PASS | |

Test Equipment

See Appendix C for list of test equipment

Duty Cycle Data Table

Duty Cycle table and screen captures are shown below for power/psd modes.

| Frequency (MHz) | Mode | Data Rate (Mbps) | Duty Cycle Correction Factor (dB) |
|--------------------|---------------------------|---------------------|--|
| 5180 | Non HT20, 6 to 54 Mbps | 6.0 | 0.34892 |
| | HT/VHT20, M0 to M7 | m0 | 0.23696 |
| | HE20, M0 to M9 1ss | m0h1 | 0.18952 |
| 5190 | Non HT40, 6 to 54 Mbps | 6.0 | 0.3574 |
| | HT/VHT40, M0 to M7 | m0 | 0.2789 |
| | HE40, M0 to M9 1ss | m0h1 | 0.34469 |
| 5210 | Non HT80, 6 to 54 Mbps | 6.0 | 0.35835 |
| | VHT80, M0 to M9 1ss | m0x1 | 0.4624 |
| | HE80, M0 to M9 1ss | m0h1 | 0.19315 |
| 5220 | Non HT20, 6 to 54 Mbps | 6.0 | 0.34892 |
| | HT/VHT20, M0 to M7 | m0 | 0.23696 |
| | HE20, M0 to M9 1ss | m0h1 | 0.18589 |
| 5230 | Non HT40, 6 to 54 Mbps | 6.0 | 0.3574 |
| | HT/VHT40, M0 to M7 | m0 | 0.2789 |
| | HE40, M0 to M9 1ss | m0h1 | 0.18952 |
| 5240 | Non HT20, 6 to 54 Mbps | 6.0 | 0.34892 |
| | HT/VHT20, M0 to M7 | m0 | 0.23696 |
| | HE20, M0 to M9 1ss | m0h1 | 0.18589 |
| 5250 | Non HT80+80, 6 to 54 Mbps | 6.0 | 0.4 |
| | VHT80+80, M0 to M9 1ss | m0x1 | 0.5 |
| | HE80+80, M0 to M9 1ss | m0h1 | 0.3 |

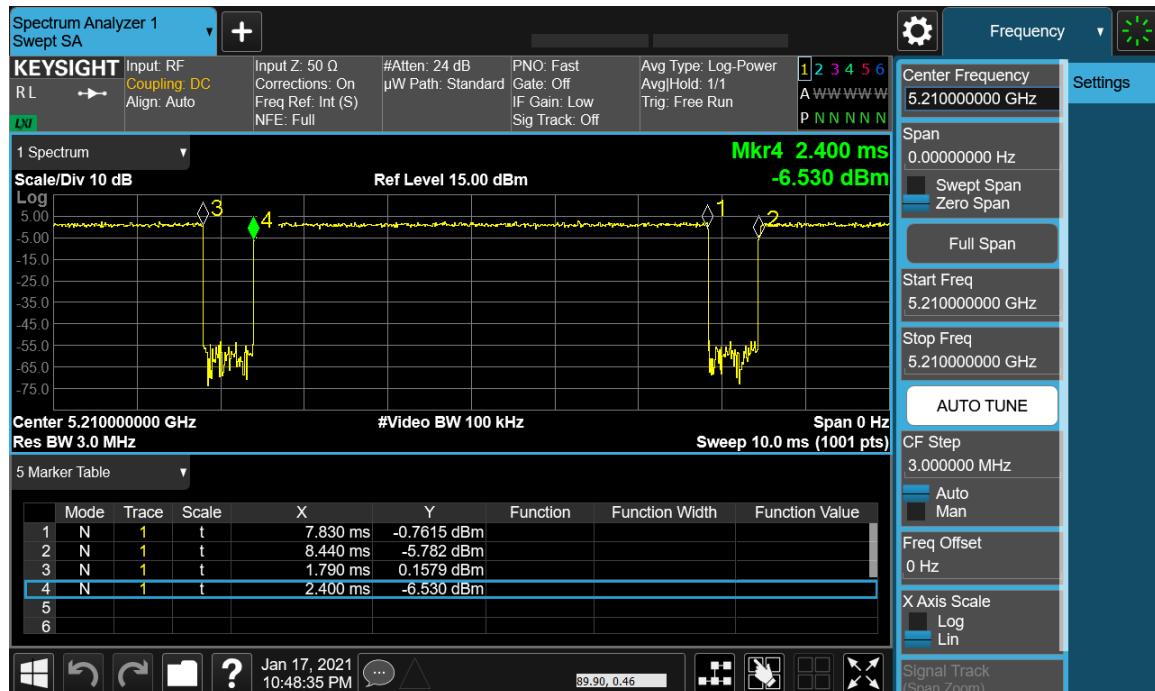
Data Screenshots

5250 MHz: VHT80+80, M0 to M9 1ss



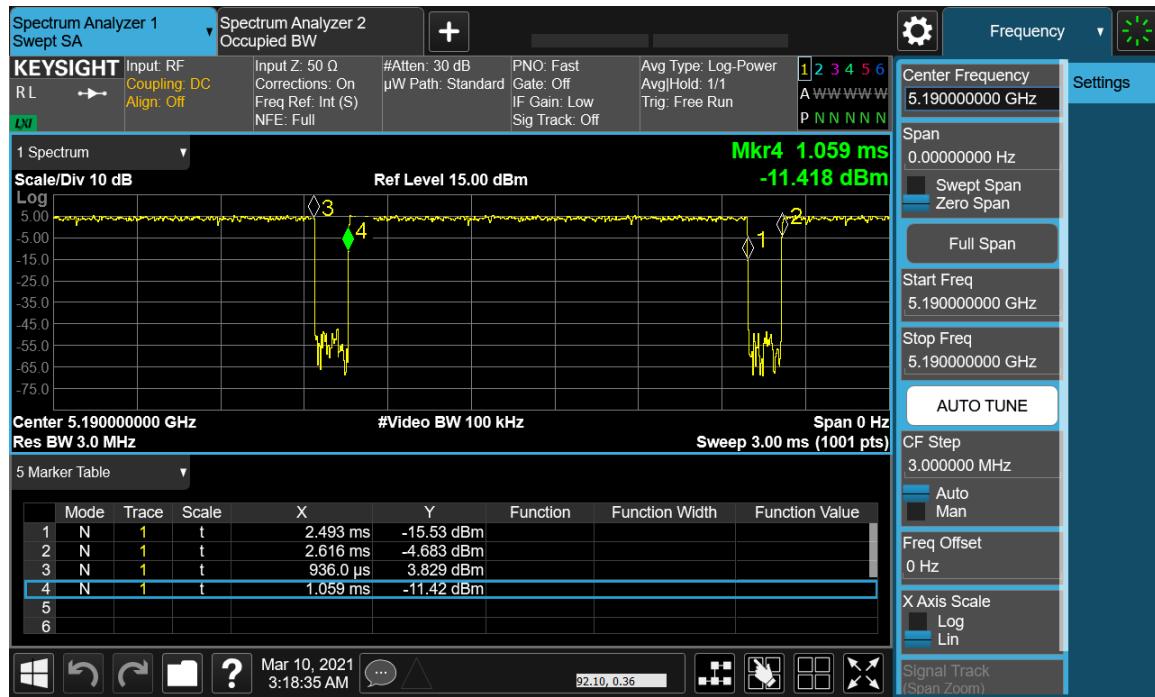
Antenna A

5210 MHz: VHT80, M0 to M9 1ss



Antenna A

5190 MHz: Non HT40, 6 to 54 Mbps



Antenna A

A.2 99% and 26dB Bandwidth

99% and 26dB Bandwidth Test Requirement

For the FCC:

There is no requirement for the value of bandwidth.

Power measurements are made using the 99% Bandwidth as the integration bandwidth.

99% and 26dB Bandwidth Test Procedure

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

Ref. KDB 789033 Section D. 99 Percent Occupied Bandwidth

| 99% BW |
|---|
| Test Parameters |
| <ol style="list-style-type: none">1. Set center frequency to the nominal EUT channel center frequency.2. Set span = 1.5 times to 5.0 times the OBW.3. Set RBW = 1 % to 5 % of the OBW4. Set VBW $\geq 3 \cdot RBW$5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.6. Use the 99 % power bandwidth function of the instrument (if available). |

Ref KDB 789033 in Section C. Measurement Bandwidth, Section 1

| 26 BW |
|---|
| Test parameters |
| X dB BW = -26dB (using the OBW function of the spectrum analyzer) |

Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

| | |
|---|--|
| Tested By : Said Abdelwafi, Julian Land | Date of testing: 12-JAN-2021 through 19-JAN-2021 08-MAR-2021 through 12-MAR-2021 08-APR-2021 through 09-APR-2021 |
| Test Result : PASS | |

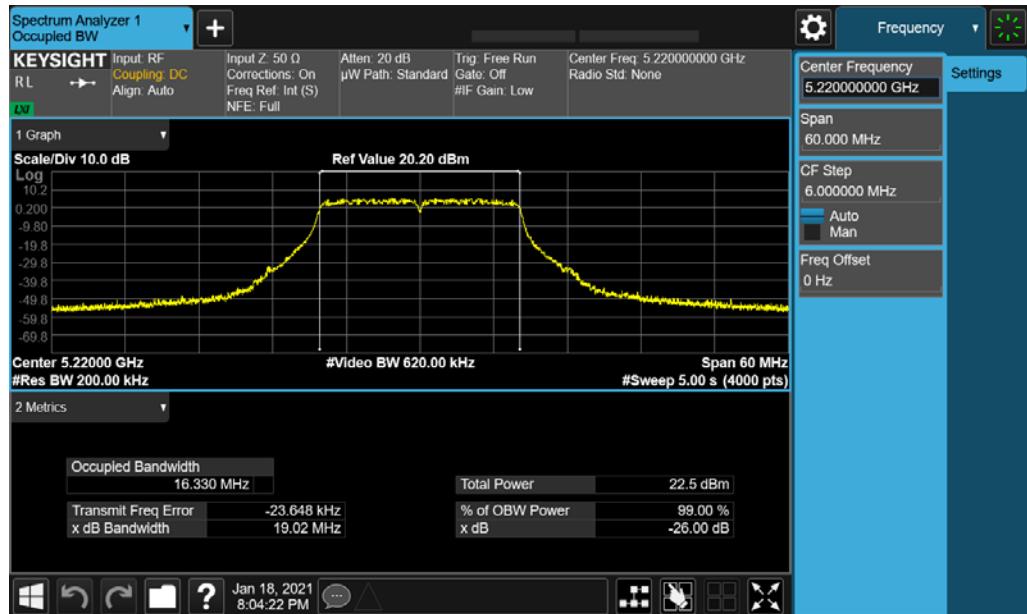
Test Equipment

See Appendix C for list of test equipment

| Frequency (MHz) | Mode | Data Rate (Mbps) | 26dB BW (MHz) | 99% BW (MHz) |
|----------------------------|----------------------------------|---------------------------------|--------------------------|-------------------------|
| | | | | |
| 5180 | Non HT20, 6 to 54 Mbps | 6.0 | 19.1 | 16.335 |
| | HT/VHT20, M0 to M7 | m0 | 20.5 | 17.545 |
| | HE20, M0 to M9 1ss | m0h1 | 21.0 | 18.908 |
| | | | | |
| 5190 | Non HT40, 6 to 54 Mbps | 6.0 | 39.2 | 35.999 |
| | HT/VHT40 Beam Forming, M0 to M7 | m0 | 39.3 | 35.911 |
| | HE40 Beam Forming, M0 to M9 1ss | m0h1 | 40.3 | 37.654 |
| | | | | |
| 5210 | Non HT80, 6 to 54 Mbps | 6.0 | 79.3 | 75.391 |
| | VHT80 Beam Forming, M0 to M9 2ss | m0x1 | 79.2 | 75.202 |
| | HE80 Beam Forming, M0 to M9 1ss | m0h1 | 80.1 | 76.926 |
| | | | | |
| 5220 | Non HT20, 6 to 54 Mbps | 6.0 | 19.0 | 16.33 |
| | HT/VHT20, M8 to M15 | m0 | 20.4 | 17.535 |
| | HE20, M0 to M9 1ss | m0h1 | 20.9 | 18.901 |
| | | | | |
| 5230 | Non HT40, 6 to 54 Mbps | 6.0 | 39.1 | 35.989 |
| | HT/VHT40, M16 to M23 | m0 | 39.2 | 35.916 |
| | HE40 Beam Forming, M0 to M9 2ss | m0h1 | 40.0 | 37.648 |
| | | | | |
| 5240 | Non HT20, 6 to 54 Mbps | 6.0 | 19.1 | 16.336 |
| | HT/VHT20, M0 to M7 | m0 | 20.4 | 17.543 |
| | HE20, M0 to M9 1ss | m0h1 | 21.1 | 18.915 |
| | | | | |
| 5250 | Non HT80+80, 6 to 54 Mbps | 6.0 | 158.63 | 154.114 |
| | VHT80+80, M0 to M9 1ss | m0x1 | 158.813 | 153.567 |
| | HE80+80, M0 to M9 1ss | m0h1 | 159.878 | 155.412 |

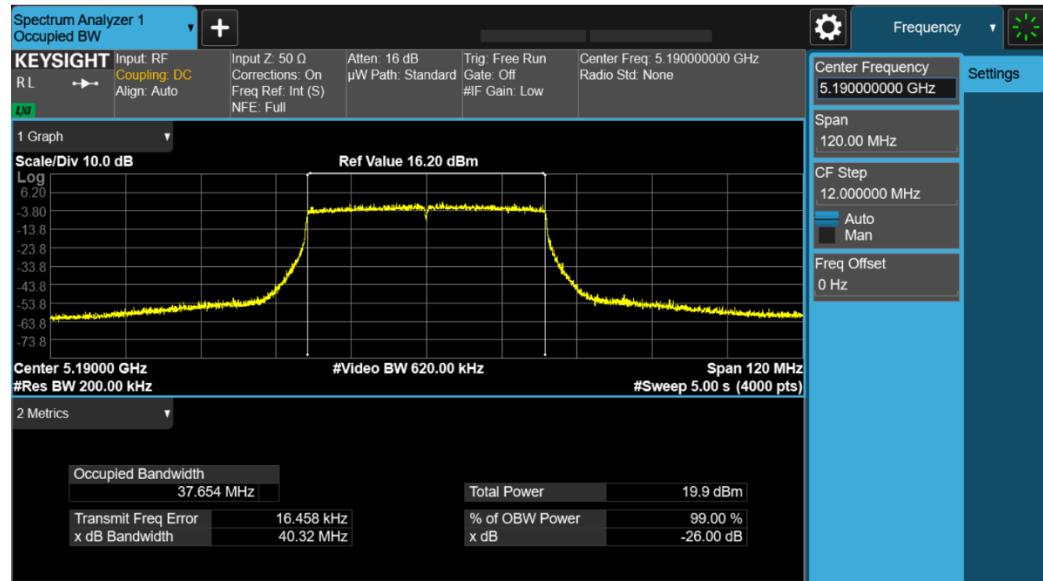
Data Screenshots

5220 MHz: Non HT20, 6 to 54 Mbps



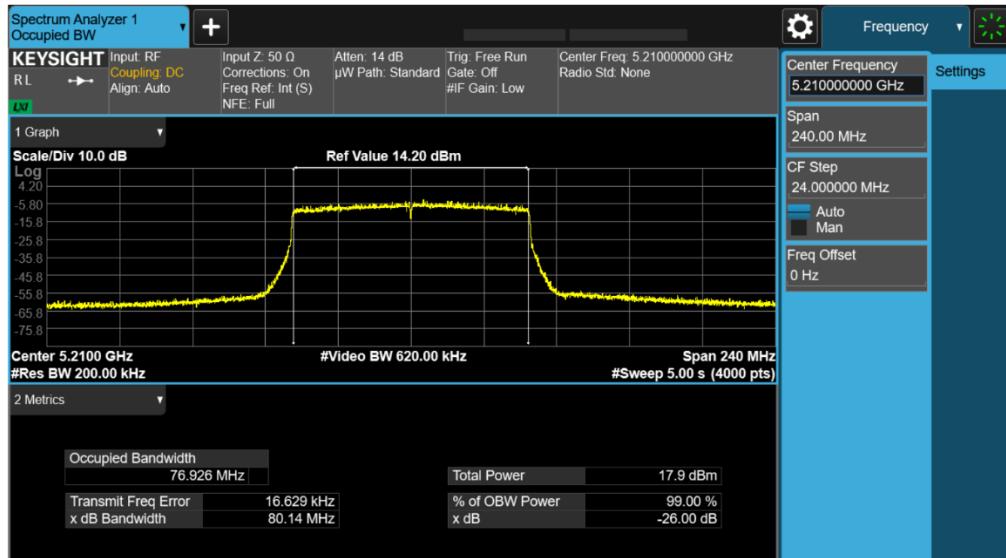
Antenna A

5190 MHz: HE40 Beam Forming, M0 to M9 1ss



Antenna A

5210 MHz: HE80 Beam Forming, M0 to M9 1ss



Antenna A

A.3 Maximum Conducted Output Power

Maximum Conducted Output Power Test Requirement

15.407 General technical requirements, (a) Power limits: (1) For the band 5.15-5.25 GHz.

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

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

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

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

Maximum Conducted Output Power Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
ANSI C63.10: 2013

| Maximum Conducted Output Power |
|---|
| Test Procedure |
| 1. Set the radio in the continuous transmitting mode at full power |
| 2. Compute power by integrating the spectrum across the EBW (or alternatively entire 99% OBW) of the signal using the instrument's band power measurement function. The integration shall be performed using the spectrum analyzer band-power measurement function with band limits set equal to the EBW or the OBW band edges. |
| 3. Capture graphs and record pertinent measurement data. |

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
2. Measurement using a Spectrum Analyzer or EMI Receiver (SA), (d) Method SA-2

| Maximum Conducted Output Power |
|--------------------------------|
|--------------------------------|

| Test parameters |
|---|
| Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction). |
| (i) Measure the duty cycle, x , of the transmitter output signal as described in section II.B. |
| (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal. |
| (iii) Set RBW = 1 MHz. |
| (iv) Set VBW \geq 3 MHz. |
| (v) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.) |
| (vi) Sweep time = auto. |
| (vii) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. |
| (viii) Do not use sweep triggering. Allow the sweep to “free run”. |
| (ix) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter. |
| (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) |

The “measure-and-sum technique” is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. ANSI C63.10 section 14.3.2.2

| | |
|---|---|
| Tested By : Said Abdelwafi, Julian Land | Date of testing: 12-JAN-2021 through 19-JAN-2021 08-MAR-2021 through 12-MAR-2021 |
| Test Result : PASS | |

Test Equipment

See Appendix C for list of test equipment

Maximum Output Power

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|------------------------------|-------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | 22.1 | | | | 0.35 | 22.4 | 29 | 6.59 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | 18.4 | 18.0 | | | 0.35 | 21.6 | 29 | 7.42 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | 15.5 | 15.2 | 14.9 | | 0.35 | 20.3 | 29 | 8.66 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | 13.5 | 13.3 | 13.1 | 13.2 | 0.35 | 19.7 | 29 | 9.35 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | 18.4 | 18.0 | | | 0.35 | 21.6 | 26 | 4.42 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | 15.5 | 15.2 | 14.9 | | 0.35 | 20.3 | 24 | 3.66 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | 13.5 | 13.3 | 13.1 | 13.2 | 0.35 | 19.7 | 23 | 3.35 |
| HT/VHT20, M0 to M7 | 1 | 7 | 22.1 | | | | 0.24 | 22.4 | 29 | 6.64 |
| HT/VHT20, M0 to M7 | 2 | 7 | 20.3 | 20.2 | | | 0.24 | 23.5 | 29 | 5.48 |
| HT/VHT20, M8 to M15 | 2 | 7 | 20.9 | 20.9 | | | 0.24 | 24.1 | 29 | 4.86 |
| HT/VHT20, M0 to M7 | 3 | 7 | 16.6 | 16.0 | 15.6 | | 0.19 | 21.1 | 29 | 7.94 |
| HT/VHT20, M8 to M15 | 3 | 7 | 19.3 | 18.7 | 18.8 | | 0.24 | 24.0 | 29 | 5.04 |
| HT/VHT20, M16 to M23 | 3 | 7 | 19.3 | 18.7 | 18.8 | | 0.24 | 24.0 | 29 | 5.04 |
| HT/VHT20, M0 to M7 | 4 | 7 | 14.5 | 14.4 | 14.0 | 14.1 | 0.24 | 20.5 | 29 | 8.48 |
| HT/VHT20, M8 to M15 | 4 | 7 | 17.3 | 17.2 | 16.9 | 16.8 | 0.24 | 23.3 | 29 | 5.69 |
| HT/VHT20, M16 to M23 | 4 | 7 | 19.3 | 18.7 | 18.8 | 19.0 | 0.24 | 25.2 | 29 | 3.79 |
| HT/VHT20, M24 to M31 | 4 | 7 | 19.3 | 18.7 | 18.8 | 19.0 | 0.24 | 25.2 | 29 | 3.79 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | 19.3 | 18.7 | | | 0.24 | 22.3 | 26 | 3.72 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|------|------|----|------|
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | 20.9 | 20.9 | | | 0.24 | 24.1 | 29 | 4.86 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | 16.6 | 16.0 | 15.6 | | 0.19 | 21.1 | 24 | 2.94 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | 19.3 | 18.7 | 18.8 | | 0.24 | 24.0 | 27 | 3.04 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | 19.3 | 18.7 | 18.8 | | 0.24 | 24.0 | 29 | 5.04 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | 13.6 | 13.3 | 13.3 | 13.1 | 0.24 | 19.6 | 23 | 3.41 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | 16.6 | 16.0 | 15.6 | 16.2 | 0.19 | 22.3 | 26 | 3.65 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | 19.3 | 18.7 | 18.8 | 19.0 | 0.24 | 25.2 | 28 | 2.79 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | 19.3 | 18.7 | 18.8 | 19.0 | 0.24 | 25.2 | 29 | 3.79 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | 20.9 | 20.9 | | | 0.24 | 24.1 | 29 | 4.86 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | 19.3 | 18.7 | 18.8 | | 0.24 | 24.0 | 29 | 5.04 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | 17.3 | 17.2 | 16.9 | 16.8 | 0.24 | 23.3 | 29 | 5.69 |
| HE20, M0 to M9 1ss | 1 | 7 | 21.1 | | | | 0.19 | 21.3 | 29 | 7.67 |
| HE20, M0 to M9 1ss | 2 | 7 | 20.1 | 20.1 | | | 0.19 | 23.3 | 29 | 5.71 |
| HE20, M0 to M9 2ss | 2 | 7 | 21.1 | 21.1 | | | 0.19 | 24.3 | 29 | 4.68 |
| HE20, M0 to M9 1ss | 3 | 7 | 16.7 | 16.4 | 16.3 | | 0.19 | 21.4 | 29 | 7.56 |
| HE20, M0 to M9 2ss | 3 | 7 | 19.5 | 19.2 | 19.0 | | 0.19 | 24.2 | 29 | 4.79 |
| HE20, M0 to M9 3ss | 3 | 7 | 19.5 | 19.2 | 19.0 | | 0.19 | 24.2 | 29 | 4.79 |
| HE20, M0 to M9 1ss | 4 | 7 | 14.9 | 14.5 | 14.4 | 14.5 | 0.19 | 20.8 | 29 | 8.23 |
| HE20, M0 to M9 2ss | 4 | 7 | 17.6 | 17.2 | 16.9 | 17.1 | 0.19 | 23.4 | 29 | 5.58 |
| HE20, M0 to M9 3ss | 4 | 7 | 18.4 | 18.3 | 17.9 | 17.9 | 0.19 | 24.3 | 29 | 4.65 |
| HE20, M0 to M9 4ss | 4 | 7 | 18.4 | 18.3 | 17.9 | 17.9 | 0.19 | 24.3 | 29 | 4.65 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | 18.4 | 18.3 | | | 0.19 | 21.5 | 26 | 4.46 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | 21.1 | 21.1 | | | 0.19 | 24.3 | 29 | 4.68 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | 14.9 | 14.5 | 14.4 | | 0.19 | 19.5 | 24 | 4.45 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | 18.4 | 18.3 | 17.9 | | 0.19 | 23.2 | 27 | 3.83 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | 19.5 | 19.2 | 19.0 | | 0.19 | 24.2 | 29 | 4.79 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | 13.7 | 13.6 | 13.4 | 13.3 | 0.19 | 19.7 | 23 | 3.29 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | 16.7 | 16.4 | 16.3 | 16.3 | 0.19 | 22.6 | 26 | 3.37 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | 18.4 | 18.3 | 17.9 | 17.9 | 0.19 | 24.3 | 28 | 3.65 |

| | | | | | | | | | | |
|------------------------------------|---|---|------|------|------|------|------|------|----|------|
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | 18.4 | 18.3 | 17.9 | 17.9 | 0.19 | 24.3 | 29 | 4.65 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | 21.1 | 21.1 | | | 0.19 | 24.3 | 29 | 4.68 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | 19.5 | 19.2 | 19.0 | | 0.19 | 24.2 | 29 | 4.79 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | 17.6 | 17.2 | 16.9 | 17.1 | 0.19 | 23.4 | 29 | 5.58 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------|----------|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------------------------------|----------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | 17.9 | | | 0.36 | 18.2 | 29 | 10.75 | |
| Non HT40, 6 to 54 Mbps | 2 | 7 | 17.9 | 18.1 | | 0.36 | 21.4 | 29 | 7.65 | |
| Non HT40, 6 to 54 Mbps | 3 | 7 | 16.9 | 17.2 | 16.8 | 0.36 | 22.1 | 29 | 6.93 | |
| Non HT40, 6 to 54 Mbps | 4 | 7 | 15.9 | 16.2 | 15.8 | 15.6 | 0.35 | 22.2 | 29 | 6.76 |
| HT/VHT40, M0 to M7 | 1 | 7 | 20.1 | | | 0.28 | 20.4 | 29 | 8.58 | |
| HT/VHT40, M0 to M7 | 2 | 7 | 20.1 | 20.1 | | 0.28 | 23.4 | 29 | 5.58 | |
| HT/VHT40, M8 to M15 | 2 | 7 | 20.1 | 20.1 | | 0.28 | 23.4 | 29 | 5.58 | |
| HT/VHT40, M0 to M7 | 3 | 7 | 18.4 | 18.2 | 17.9 | 0.28 | 23.2 | 29 | 5.78 | |
| HT/VHT40, M8 to M15 | 3 | 7 | 18.4 | 18.2 | 17.9 | 0.28 | 23.2 | 29 | 5.78 | |
| HT/VHT40, M16 to M23 | 3 | 7 | 18.4 | 18.2 | 17.9 | 0.28 | 23.2 | 29 | 5.78 | |
| HT/VHT40, M0 to M7 | 4 | 7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.28 | 23.4 | 29 | 5.62 |
| HT/VHT40, M8 to M15 | 4 | 7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.28 | 23.4 | 29 | 5.62 |
| HT/VHT40, M16 to M23 | 4 | 7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.28 | 23.4 | 29 | 5.62 |
| HT/VHT40, M24 to M31 | 4 | 7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.28 | 23.4 | 29 | 5.62 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|------|------|----|------|
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | 15.7 | 15.2 | | | 0.28 | 18.7 | 26 | 7.27 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | 20.1 | 20.1 | | | 0.28 | 23.4 | 29 | 5.58 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | 13.7 | 13.4 | 13.2 | | 0.28 | 18.5 | 24 | 5.53 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | 15.7 | 15.2 | 15.2 | | 0.28 | 20.4 | 27 | 6.59 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | 18.4 | 18.2 | 17.9 | | 0.28 | 23.2 | 29 | 5.78 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | 11.6 | 11.3 | 11.3 | 10.9 | 0.28 | 17.6 | 23 | 5.43 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | 13.7 | 13.4 | 13.2 | 13.0 | 0.28 | 19.6 | 26 | 6.39 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | 15.7 | 15.2 | 15.2 | 15.0 | 0.28 | 21.6 | 28 | 6.43 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.28 | 23.4 | 29 | 5.62 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | 20.1 | 20.1 | | | 0.28 | 23.4 | 29 | 5.58 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | 18.4 | 18.2 | 17.9 | | 0.28 | 23.2 | 29 | 5.78 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.28 | 23.4 | 29 | 5.62 |
| HE40, M0 to M9 1ss | 1 | 7 | 20.9 | | | | 0.19 | 21.1 | 29 | 7.88 |
| HE40, M0 to M9 1ss | 2 | 7 | 18.8 | 18.6 | | | 0.19 | 21.9 | 29 | 7.06 |
| HE40, M0 to M9 2ss | 2 | 7 | 18.8 | 18.6 | | | 0.19 | 21.9 | 29 | 7.06 |
| HE40, M0 to M9 1ss | 3 | 7 | 18.0 | 17.7 | 17.4 | | 0.19 | 22.7 | 29 | 6.34 |
| HE40, M0 to M9 2ss | 3 | 7 | 18.0 | 17.7 | 17.4 | | 0.19 | 22.7 | 29 | 6.34 |
| HE40, M0 to M9 3ss | 3 | 7 | 18.0 | 17.7 | 17.4 | | 0.19 | 22.7 | 29 | 6.34 |
| HE40, M0 to M9 1ss | 4 | 7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.34 | 23.0 | 29 | 5.99 |
| HE40, M0 to M9 2ss | 4 | 7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.34 | 23.0 | 29 | 5.99 |
| HE40, M0 to M9 3ss | 4 | 7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.34 | 23.0 | 29 | 5.99 |
| HE40, M0 to M9 4ss | 4 | 7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.34 | 23.0 | 29 | 5.99 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | 16.2 | 15.7 | | | 0.19 | 19.2 | 26 | 6.83 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | 18.8 | 18.6 | | | 0.19 | 21.9 | 29 | 7.06 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | 13.1 | 12.9 | 12.6 | | 0.19 | 17.9 | 24 | 6.14 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | 16.2 | 15.7 | 15.5 | | 0.19 | 20.8 | 27 | 6.21 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | 18.0 | 17.7 | 17.4 | | 0.19 | 22.7 | 29 | 6.34 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | 12.1 | 11.6 | 11.7 | 11.7 | 0.19 | 18.0 | 23 | 5.02 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | 13.9 | 14.0 | 13.8 | 13.4 | 0.19 | 20.0 | 26 | 6.03 |

| | | | | | | | | | | |
|------------------------------------|---|---|------|------|------|------|------|------|----|------|
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | 16.2 | 15.7 | 15.5 | 15.3 | 0.19 | 21.9 | 28 | 6.08 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.34 | 23.0 | 29 | 5.99 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | 18.8 | 18.6 | | | 0.19 | 21.9 | 29 | 7.06 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | 18.0 | 17.7 | 17.4 | | 0.19 | 22.7 | 29 | 6.34 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.34 | 23.0 | 29 | 5.99 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------------------------------|----------------|----------------|
| Non HT80, 6 to 54 Mbps | 1 | 7 | 19.0 | | | | 0.36 | 19.3 | 29 | 9.65 |
| Non HT80, 6 to 54 Mbps | 2 | 7 | 15.4 | 15.6 | | | 0.36 | 18.9 | 29 | 10.11 |
| Non HT80, 6 to 54 Mbps | 3 | 7 | 14.2 | 14.6 | 14.2 | | 0.36 | 19.5 | 29 | 9.52 |
| Non HT80, 6 to 54 Mbps | 4 | 7 | 13.3 | 13.5 | 13.0 | 13.6 | 0.36 | 19.7 | 29 | 9.28 |
| VHT80, M0 to M9 1ss | 1 | 7 | 19.6 | | | | 0.46 | 20.1 | 29 | 8.92 |
| VHT80, M0 to M9 1ss | 2 | 7 | 16.7 | 17.0 | | | 0.46 | 20.3 | 29 | 8.68 |
| VHT80, M0 to M9 2ss | 2 | 7 | 16.7 | 17.0 | | | 0.46 | 20.3 | 29 | 8.68 |
| VHT80, M0 to M9 1ss | 3 | 7 | 16.7 | 17.0 | 16.5 | | 0.46 | 22.0 | 29 | 7.05 |
| VHT80, M0 to M9 2ss | 3 | 7 | 16.7 | 17.0 | 16.5 | | 0.46 | 22.0 | 29 | 7.05 |
| VHT80, M0 to M9 3ss | 3 | 7 | 16.7 | 17.0 | 16.5 | | 0.46 | 22.0 | 29 | 7.05 |
| VHT80, M0 to M9 1ss | 4 | 7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.46 | 22.2 | 29 | 6.8 |
| VHT80, M0 to M9 2ss | 4 | 7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.46 | 22.2 | 29 | 6.8 |
| VHT80, M0 to M9 3ss | 4 | 7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.46 | 22.2 | 29 | 6.8 |
| VHT80, M0 to M9 4ss | 4 | 7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.46 | 22.2 | 29 | 6.8 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | 10 | 14.4 | 15.2 | | | 0.46 | 18.3 | 26 | 7.72 |

| | | | | | | | | | | |
|-------------------------------------|---|----|------|------|------|------|------|------|----|------|
| VHT80 Beam Forming, M0 to M9 2ss | 2 | 7 | 16.7 | 17.0 | | | 0.46 | 20.3 | 29 | 8.68 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | 12 | 12.0 | 12.0 | 11.5 | | 0.46 | 17.0 | 24 | 6.95 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | 9 | 14.4 | 15.2 | 14.4 | | 0.46 | 19.9 | 27 | 7.1 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | 7 | 16.7 | 17.0 | 16.5 | | 0.46 | 22.0 | 29 | 7.05 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | 13 | 10.6 | 10.9 | 10.9 | 10.9 | 0.46 | 17.3 | 23 | 5.7 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | 10 | 12.0 | 12.0 | 11.5 | 11.3 | 0.46 | 18.2 | 26 | 7.83 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | 8 | 14.4 | 15.2 | 14.4 | 14.9 | 0.46 | 21.2 | 28 | 6.8 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | 7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.46 | 22.2 | 29 | 6.8 |
| VHT80 STBC, M0 to M9 1ss | 2 | 7 | 16.7 | 17.0 | | | 0.46 | 20.3 | 29 | 8.68 |
| VHT80 STBC, M0 to M9 1ss | 3 | 7 | 16.7 | 17.0 | 16.5 | | 0.46 | 22.0 | 29 | 7.05 |
| VHT80 STBC, M0 to M9 1ss | 4 | 7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.46 | 22.2 | 29 | 6.8 |
| HE80, M0 to M9 1ss | 1 | 7 | 19.1 | | | | 0.19 | 19.3 | 29 | 9.71 |
| HE80, M0 to M9 1ss | 2 | 7 | 17.2 | 17.5 | | | 0.19 | 20.6 | 29 | 8.42 |
| HE80, M0 to M9 2ss | 2 | 7 | 17.2 | 17.5 | | | 0.19 | 20.6 | 29 | 8.42 |
| HE80, M0 to M9 1ss | 3 | 7 | 17.2 | 17.5 | 17.1 | | 0.19 | 22.3 | 29 | 6.74 |
| HE80, M0 to M9 2ss | 3 | 7 | 17.2 | 17.5 | 17.1 | | 0.19 | 22.3 | 29 | 6.74 |
| HE80, M0 to M9 3ss | 3 | 7 | 17.2 | 17.5 | 17.1 | | 0.19 | 22.3 | 29 | 6.74 |
| HE80, M0 to M9 1ss | 4 | 7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.19 | 21.4 | 29 | 7.59 |
| HE80, M0 to M9 2ss | 4 | 7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.19 | 21.4 | 29 | 7.59 |
| HE80, M0 to M9 3ss | 4 | 7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.19 | 21.4 | 29 | 7.59 |
| HE80, M0 to M9 4ss | 4 | 7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.19 | 21.4 | 29 | 7.59 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | 10 | 15.4 | 15.3 | | | 0.19 | 18.6 | 26 | 7.43 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | 7 | 17.2 | 17.5 | | | 0.19 | 20.6 | 29 | 8.42 |
| HE80 Beam Forming, M0 to M9 1ss | 3 | 12 | 11.3 | 11.4 | 11.3 | | 0.19 | 16.3 | 24 | 7.68 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | 9 | 15.4 | 15.3 | 14.9 | | 0.19 | 20.2 | 27 | 6.81 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | 7 | 17.2 | 17.5 | 17.1 | | 0.19 | 22.3 | 29 | 6.74 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | 13 | 10.3 | 10.2 | 10.4 | 10.1 | 0.19 | 16.5 | 23 | 6.52 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | 10 | 12.4 | 12.3 | 12.3 | 12.3 | 0.19 | 18.5 | 26 | 7.46 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | 8 | 14.1 | 14.3 | 14.2 | 14.3 | 0.19 | 20.5 | 28 | 7.54 |

| | | | | | | | | | | |
|------------------------------------|---|---|------|------|------|------|------|------|----|------|
| HE80 Beam Forming, M0 to M9 4ss | 4 | 7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.19 | 21.4 | 29 | 7.59 |
| HE80 STBC, M0 to M9 1ss | 2 | 7 | 17.2 | 17.5 | | | 0.19 | 20.6 | 29 | 8.42 |
| HE80 STBC, M0 to M9 1ss | 3 | 7 | 17.2 | 17.5 | 17.1 | | 0.19 | 22.3 | 29 | 6.74 |
| HE80 STBC, M0 to M9 1ss | 4 | 7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.19 | 21.4 | 29 | 7.59 |

Frequency 5220 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|--|----------|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------------------------------|----------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | 22.5 | | | 0.35 | 22.9 | 29 | 6.12 | |
| Non HT20, 6 to 54 Mbps | 2 | 7 | 20.0 | 20.0 | | 0.35 | 23.4 | 29 | 5.64 | |
| Non HT20, 6 to 54 Mbps | 3 | 7 | 16.1 | 16.2 | 16.3 | 0.35 | 21.3 | 29 | 7.67 | |
| Non HT20, 6 to 54 Mbps | 4 | 7 | 13.3 | 13.2 | 13.4 | 13.5 | 0.35 | 19.7 | 29 | 9.27 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | 20.0 | 20.0 | | 0.35 | 23.4 | 26 | 2.64 | |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | 16.1 | 16.2 | 16.3 | 0.35 | 21.3 | 24 | 2.67 | |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | 13.3 | 13.2 | 13.4 | 13.5 | 0.35 | 19.7 | 23 | 3.27 |
| HT/VHT20, M0 to M7 | 1 | 7 | 22.6 | | | 0.24 | 22.8 | 29 | 6.16 | |
| HT/VHT20, M0 to M7 | 2 | 7 | 19.8 | 20.0 | | 0.24 | 23.2 | 29 | 5.84 | |
| HT/VHT20, M8 to M15 | 2 | 7 | 22.6 | 23.1 | | 0.24 | 26.1 | 29 | 2.91 | |
| HT/VHT20, M0 to M7 | 3 | 7 | 16.2 | 16.1 | 15.8 | 0.24 | 21.1 | 29 | 7.94 | |
| HT/VHT20, M8 to M15 | 3 | 7 | 19.0 | 19.2 | 19.1 | 0.24 | 24.1 | 29 | 4.92 | |
| HT/VHT20, M16 to M23 | 3 | 7 | 20.9 | 20.8 | 20.7 | 0.24 | 25.8 | 29 | 3.19 | |
| HT/VHT20, M0 to M7 | 4 | 7 | 13.2 | 13.0 | 13.5 | 13.7 | 0.24 | 19.6 | 29 | 9.4 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|------|------|----|------|
| HT/VHT20, M8 to M15 | 4 | 7 | 17.3 | 17.3 | 17.2 | 17.6 | 0.24 | 23.6 | 29 | 5.41 |
| HT/VHT20, M16 to M23 | 4 | 7 | 19.0 | 19.2 | 19.1 | 19.4 | 0.24 | 25.4 | 29 | 3.58 |
| HT/VHT20, M24 to M31 | 4 | 7 | 19.8 | 20.0 | 20.1 | 20.5 | 0.24 | 26.4 | 29 | 2.62 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | 19.8 | 20.0 | | | 0.24 | 23.2 | 26 | 2.84 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | 22.6 | 23.1 | | | 0.24 | 26.1 | 29 | 2.91 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | 16.2 | 16.1 | 15.8 | | 0.24 | 21.1 | 24 | 2.94 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | 19.0 | 19.2 | 19.1 | | 0.24 | 24.1 | 27 | 2.92 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | 20.9 | 20.8 | 20.7 | | 0.24 | 25.8 | 29 | 3.19 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | 13.2 | 13.0 | 13.5 | 13.7 | 0.24 | 19.6 | 23 | 3.4 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | 17.3 | 17.3 | 17.2 | 17.6 | 0.24 | 23.6 | 26 | 2.41 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | 19.0 | 19.2 | 19.1 | 19.4 | 0.24 | 25.4 | 28 | 2.58 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | 19.8 | 20.0 | 20.1 | 20.5 | 0.24 | 26.4 | 29 | 2.62 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | 22.6 | 23.1 | | | 0.24 | 26.1 | 29 | 2.91 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | 19.0 | 19.2 | 19.1 | | 0.24 | 24.1 | 29 | 4.92 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | 17.3 | 17.3 | 17.2 | 17.6 | 0.24 | 23.6 | 29 | 5.41 |
| HE20, M0 to M9 1ss | 1 | 7 | 22.9 | | | | 0.19 | 23.1 | 29 | 5.89 |
| HE20, M0 to M9 1ss | 2 | 7 | 20.0 | 20.5 | | | 0.19 | 23.4 | 29 | 5.57 |
| HE20, M0 to M9 2ss | 2 | 7 | 22.9 | 23.0 | | | 0.19 | 26.2 | 29 | 2.82 |
| HE20, M0 to M9 1ss | 3 | 7 | 16.6 | 16.5 | 16.5 | | 0.19 | 21.5 | 29 | 7.5 |
| HE20, M0 to M9 2ss | 3 | 7 | 19.2 | 19.3 | 19.3 | | 0.19 | 24.2 | 29 | 4.8 |
| HE20, M0 to M9 3ss | 3 | 7 | 21.2 | 21.3 | 21.3 | | 0.19 | 26.2 | 29 | 2.81 |
| HE20, M0 to M9 1ss | 4 | 7 | 14.4 | 14.5 | 14.7 | 14.8 | 0.19 | 20.8 | 29 | 8.21 |
| HE20, M0 to M9 2ss | 4 | 7 | 17.4 | 17.5 | 17.4 | 17.8 | 0.19 | 23.7 | 29 | 5.26 |
| HE20, M0 to M9 3ss | 4 | 7 | 19.2 | 19.3 | 19.3 | 19.4 | 0.19 | 25.5 | 29 | 3.49 |
| HE20, M0 to M9 4ss | 4 | 7 | 20.0 | 20.5 | 20.2 | 20.7 | 0.19 | 26.6 | 29 | 2.45 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | 20.0 | 20.5 | | | 0.19 | 23.4 | 26 | 2.57 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | 22.9 | 23.0 | | | 0.19 | 26.2 | 29 | 2.82 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | 16.6 | 16.5 | 16.5 | | 0.19 | 21.5 | 24 | 2.5 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | 19.2 | 19.3 | 19.3 | | 0.19 | 24.2 | 27 | 2.8 |

| | | | | | | | | | | |
|------------------------------------|---|----|------|------|------|------|------|------|----|------|
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | 21.2 | 21.3 | 21.3 | | 0.19 | 26.2 | 29 | 2.81 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | 14.4 | 14.5 | 14.7 | 14.8 | 0.19 | 20.8 | 23 | 2.21 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | 17.4 | 17.5 | 17.4 | 17.8 | 0.19 | 23.7 | 26 | 2.26 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | 19.2 | 19.3 | 19.3 | 19.4 | 0.19 | 25.5 | 28 | 2.49 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | 20.0 | 20.5 | 20.2 | 20.7 | 0.19 | 26.6 | 29 | 2.45 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | 22.9 | 23.0 | | | 0.19 | 26.2 | 29 | 2.82 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | 19.2 | 19.3 | 19.3 | | 0.19 | 24.2 | 29 | 4.8 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | 17.4 | 17.5 | 17.4 | 17.8 | 0.19 | 23.7 | 29 | 5.26 |

Frequency 5230 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------|----------|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------------------------------|----------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | 22.0 | | | | 0.36 | 22.3 | 29 | 6.69 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | 22.0 | 22.4 | | | 0.36 | 25.6 | 29 | 3.43 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | 18.2 | 18.6 | 18.0 | | 0.36 | 23.4 | 29 | 5.59 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | 16.4 | 16.7 | 16.4 | 16.4 | 0.36 | 22.8 | 29 | 6.16 |
| HT/VHT40, M0 to M7 | 1 | 7 | 22.3 | | | | 0.28 | 22.6 | 29 | 6.42 |
| HT/VHT40, M0 to M7 | 2 | 7 | 22.3 | 22.7 | | | 0.28 | 25.8 | 29 | 3.22 |
| HT/VHT40, M8 to M15 | 2 | 7 | 22.3 | 22.7 | | | 0.28 | 25.8 | 29 | 3.22 |
| HT/VHT40, M0 to M7 | 3 | 7 | 18.5 | 18.9 | 17.5 | | 0.28 | 23.4 | 29 | 5.61 |
| HT/VHT40, M8 to M15 | 3 | 7 | 22.3 | 22.7 | 22.3 | | 0.28 | 27.5 | 29 | 1.52 |

| | | | | | | | | | | |
|---|----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|
| HT/VHT40, M16 to M23 | 3 | 7 | 22.3 | 22.7 | 22.3 | | 0.28 | 27.5 | 29 | 1.52 |
| HT/VHT40, M0 to M7 | 4 | 7 | 16.7 | 16.7 | 16.8 | 17.3 | 0.28 | 23.2 | 29 | 5.81 |
| HT/VHT40, M8 to M15 | 4 | 7 | 19.4 | 20.1 | 19.3 | 20.4 | 0.28 | 26.1 | 29 | 2.89 |
| HT/VHT40, M16 to M23 | 4 | 7 | 20.5 | 20.9 | 20.7 | 21.1 | 0.28 | 27.1 | 29 | 1.91 |
| HT/VHT40, M24 to M31 | 4 | 7 | 20.5 | 20.9 | 20.7 | 21.1 | 0.28 | 27.1 | 29 | 1.91 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | 21.2 | 21.8 | | | 0.28 | 24.8 | 26 | 1.23 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | 22.3 | 22.7 | | | 0.28 | 25.8 | 29 | 3.22 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | 17.7 | 17.8 | 17.8 | | 0.28 | 22.8 | 24 | 1.17 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | 20.5 | 20.9 | 20.7 | | 0.28 | 25.7 | 27 | 1.26 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | 22.3 | 22.7 | 22.3 | | 0.28 | 27.5 | 29 | 1.52 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | 14.7 | 15.3 | 14.9 | 15.6 | 0.28 | 21.4 | 23 | 1.57 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | 18.5 | 18.9 | 17.5 | 19.2 | 0.28 | 24.9 | 26 | 1.12 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | 19.4 | 20.1 | 19.3 | 20.4 | 0.28 | 26.1 | 28 | 1.89 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | 20.5 | 20.9 | 20.7 | 21.1 | 0.28 | 27.1 | 29 | 1.91 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | 22.3 | 22.7 | | | 0.28 | 25.8 | 29 | 3.22 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | 22.3 | 22.7 | 22.3 | | 0.28 | 27.5 | 29 | 1.52 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | 19.4 | 20.1 | 19.3 | 20.4 | 0.28 | 26.1 | 29 | 2.89 |
| HE40, M0 to M9 1ss | 1 | 7 | 22.8 | | | | 0.19 | 23.0 | 29 | 6.04 |
| HE40, M0 to M9 1ss | 2 | 7 | 22.8 | 23.1 | | | 0.19 | 26.2 | 29 | 2.85 |
| HE40, M0 to M9 2ss | 2 | 7 | 22.8 | 23.1 | | | 0.19 | 26.2 | 29 | 2.85 |
| HE40, M0 to M9 1ss | 3 | 7 | 19.2 | 19.5 | 19.2 | | 0.19 | 24.3 | 29 | 4.73 |
| HE40, M0 to M9 2ss | 3 | 7 | 22.1 | 22.3 | 21.8 | | 0.19 | 27.0 | 29 | 1.97 |
| HE40, M0 to M9 3ss | 3 | 7 | 22.8 | 23.1 | 22.8 | | 0.19 | 27.9 | 29 | 1.14 |
| HE40, M0 to M9 1ss | 4 | 7 | 17.4 | 17.4 | 17.3 | 17.6 | 0.19 | 23.6 | 29 | 5.38 |
| HE40, M0 to M9 2ss | 4 | 7 | 20.1 | 20.3 | 20.1 | 20.7 | 0.19 | 26.5 | 29 | 2.51 |
| HE40, M0 to M9 3ss | 4 | 7 | 21.0 | 21.3 | 21.2 | 21.5 | 0.19 | 27.5 | 29 | 1.54 |
| HE40, M0 to M9 4ss | 4 | 7 | 21.0 | 21.3 | 21.2 | 21.5 | 0.19 | 27.5 | 29 | 1.54 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | 21.0 | 21.3 | | | 0.19 | 24.4 | 26 | 1.64 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | 22.8 | 23.1 | | | 0.19 | 26.2 | 29 | 2.85 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | 17.4 | 17.4 | 17.3 | | 0.19 | 22.3 | 24 | 1.69 |

| | | | | | | | | | | |
|--|----------|----------|-------------|-------------|-------------|------|-------------|-------------|-----------|-------------|
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | 20.1 | 20.3 | 20.1 | | 0.19 | 25.1 | 27 | 1.9 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | 22.8 | 23.1 | 22.8 | | 0.19 | 27.9 | 29 | 1.14 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | 15.3 | 15.6 | 15.3 | 16.0 | 0.19 | 21.7 | 23 | 1.26 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | 18.0 | 18.4 | 18.0 | 18.6 | 0.19 | 24.5 | 26 | 1.52 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | 20.1 | 20.3 | 20.1 | 20.7 | 0.19 | 26.5 | 28 | 1.51 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | 21.0 | 21.3 | 21.2 | 21.5 | 0.19 | 27.5 | 29 | 1.54 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | 22.8 | 23.1 | | | 0.19 | 26.2 | 29 | 2.85 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | 22.1 | 22.3 | 21.8 | | 0.19 | 27.0 | 29 | 1.97 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | 20.1 | 20.3 | 20.1 | 20.7 | 0.19 | 26.5 | 29 | 2.51 |

Frequency 5240 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|--|----------|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------------------------------|----------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | 22.2 | | | | 0.35 | 22.5 | 29 | 6.46 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | 19.3 | 19.8 | | | 0.35 | 22.9 | 29 | 6.08 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | 15.6 | 16.1 | 15.8 | | 0.35 | 20.9 | 29 | 8.08 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | 12.6 | 13.0 | 12.8 | 13.5 | 0.35 | 19.3 | 29 | 9.65 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | 19.3 | 19.8 | | | 0.35 | 22.9 | 26 | 3.08 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | 15.6 | 16.1 | 15.8 | | 0.35 | 20.9 | 24 | 3.08 |

| | | | | | | | | | | |
|-------------------------------------|---|----|------|------|------|------|------|------|----|------|
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | 12.6 | 13.0 | 12.8 | 13.5 | 0.35 | 19.3 | 23 | 3.65 |
| HT/VHT20, M0 to M7 | 1 | 7 | 21.9 | | | | 0.24 | 22.1 | 29 | 6.88 |
| HT/VHT20, M0 to M7 | 2 | 7 | 19.5 | 19.8 | | | 0.24 | 22.9 | 29 | 6.08 |
| HT/VHT20, M8 to M15 | 2 | 7 | 21.9 | 22.8 | | | 0.24 | 25.6 | 29 | 3.41 |
| HT/VHT20, M0 to M7 | 3 | 7 | 15.4 | 15.9 | 15.7 | | 0.24 | 20.7 | 29 | 8.33 |
| HT/VHT20, M8 to M15 | 3 | 7 | 19.5 | 19.8 | 19.6 | | 0.24 | 24.6 | 29 | 4.35 |
| HT/VHT20, M16 to M23 | 3 | 7 | 21.2 | 21.9 | 21.3 | | 0.24 | 26.5 | 29 | 2.53 |
| HT/VHT20, M0 to M7 | 4 | 7 | 13.6 | 14.1 | 13.9 | 14.3 | 0.24 | 20.2 | 29 | 8.78 |
| HT/VHT20, M8 to M15 | 4 | 7 | 16.8 | 17.1 | 16.5 | 17.3 | 0.24 | 23.2 | 29 | 5.8 |
| HT/VHT20, M16 to M23 | 4 | 7 | 18.6 | 19.1 | 18.5 | 19.1 | 0.24 | 25.1 | 29 | 3.92 |
| HT/VHT20, M24 to M31 | 4 | 7 | 19.5 | 19.8 | 19.6 | 20.1 | 0.24 | 26.0 | 29 | 2.98 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | 19.5 | 19.8 | | | 0.24 | 22.9 | 26 | 3.08 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | 21.9 | 22.8 | | | 0.24 | 25.6 | 29 | 3.41 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | 15.4 | 15.9 | 15.7 | | 0.24 | 20.7 | 24 | 3.33 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | 19.5 | 19.8 | 19.6 | | 0.24 | 24.6 | 27 | 2.35 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | 21.2 | 21.9 | 21.3 | | 0.24 | 26.5 | 29 | 2.53 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | 13.6 | 14.1 | 13.9 | 14.3 | 0.24 | 20.2 | 23 | 2.78 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | 16.8 | 17.1 | 16.5 | 17.3 | 0.24 | 23.2 | 26 | 2.8 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | 18.6 | 19.1 | 18.5 | 19.1 | 0.24 | 25.1 | 28 | 2.92 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | 19.5 | 19.8 | 19.6 | 20.1 | 0.24 | 26.0 | 29 | 2.98 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | 21.9 | 22.8 | | | 0.24 | 25.6 | 29 | 3.41 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | 19.5 | 19.8 | 19.6 | | 0.24 | 24.6 | 29 | 4.35 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | 16.8 | 17.1 | 16.5 | 17.3 | 0.24 | 23.2 | 29 | 5.8 |
| HE20, M0 to M9 1ss | 1 | 7 | 22.5 | | | | 0.19 | 22.7 | 29 | 6.35 |
| HE20, M0 to M9 1ss | 2 | 7 | 19.7 | 20.2 | | | 0.19 | 23.2 | 29 | 5.84 |
| HE20, M0 to M9 2ss | 2 | 7 | 22.5 | 23.1 | | | 0.19 | 26.0 | 29 | 2.99 |
| HE20, M0 to M9 1ss | 3 | 7 | 16.0 | 16.5 | 16.2 | | 0.19 | 21.2 | 29 | 7.79 |
| HE20, M0 to M9 2ss | 3 | 7 | 19.7 | 20.2 | 19.7 | | 0.19 | 24.8 | 29 | 4.17 |
| HE20, M0 to M9 3ss | 3 | 7 | 21.5 | 21.9 | 21.5 | | 0.19 | 26.6 | 29 | 2.39 |
| HE20, M0 to M9 1ss | 4 | 7 | 14.0 | 14.3 | 14.2 | 14.8 | 0.19 | 20.5 | 29 | 8.48 |
| HE20, M0 to M9 2ss | 4 | 7 | 16.9 | 17.0 | 16.9 | 17.8 | 0.19 | 23.4 | 29 | 5.6 |
| HE20, M0 to M9 3ss | 4 | 7 | 18.9 | 19.2 | 18.9 | 19.6 | 0.19 | 25.4 | 29 | 3.63 |

| | | | | | | | | | | |
|---------------------------------|---|----|------|------|------|------|------|------|----|------|
| HE20, M0 to M9 4ss | 4 | 7 | 19.7 | 20.2 | 19.7 | 20.6 | 0.19 | 26.3 | 29 | 2.72 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | 19.7 | 20.2 | | | 0.19 | 23.2 | 26 | 2.84 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | 22.5 | 23.1 | | | 0.19 | 26.0 | 29 | 2.99 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | 16.0 | 16.5 | 16.2 | | 0.19 | 21.2 | 24 | 2.79 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | 19.7 | 20.2 | 19.7 | | 0.19 | 24.8 | 27 | 2.17 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | 21.5 | 21.9 | 21.5 | | 0.19 | 26.6 | 29 | 2.39 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | 14.0 | 14.3 | 14.2 | 14.8 | 0.19 | 20.5 | 23 | 2.48 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | 16.9 | 17.0 | 16.9 | 17.8 | 0.19 | 23.4 | 26 | 2.6 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | 18.9 | 19.2 | 18.9 | 19.6 | 0.19 | 25.4 | 28 | 2.63 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | 19.7 | 20.2 | 19.7 | 20.6 | 0.19 | 26.3 | 29 | 2.72 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | 22.5 | 23.1 | | | 0.19 | 26.0 | 29 | 2.99 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | 19.7 | 20.2 | 19.7 | | 0.19 | 24.8 | 29 | 4.17 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | 16.9 | 17.0 | 16.9 | 17.8 | 0.19 | 23.4 | 29 | 5.6 |

Frequency 5250 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Duty Cycle (dB) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------------|----------------------------|-----------------|------------------------------|-------------|-------------|
| Non HT80+80, 6 to 54 Mbps | 1 | 7 | 18.1 | | 0.4 | 18.5 | 29 | 10.48 |
| Non HT80+80, 6 to 54 Mbps | 2 | 7 | 16.2 | 15.7 | 0.4 | 19.4 | 29 | 9.61 |
| VHT80+80, M0 to M9 1ss | 1 | 7 | 18.9 | | 0.5 | 19.4 | 29 | 9.56 |
| VHT80+80, M0 to M9 1ss | 2 | 7 | 17.2 | 16.6 | 0.5 | 20.5 | 29 | 8.55 |
| VHT80+80, M0 to M9 2ss | 2 | 7 | 17.2 | 16.6 | 0.5 | 20.5 | 29 | 8.55 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | 14.3 | 13.6 | 0.5 | 17.5 | 26 | 8.51 |
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | 17.2 | 16.6 | 0.5 | 20.5 | 29 | 8.55 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | 7 | 17.2 | 16.6 | 0.5 | 20.5 | 29 | 8.55 |
| HE80+80, M0 to M9 1ss | 1 | 7 | 18.5 | | 0.3 | 18.8 | 29 | 10.19 |
| HE80+80, M0 to M9 1ss | 2 | 7 | 17.5 | 17.1 | 0.3 | 20.6 | 29 | 8.36 |

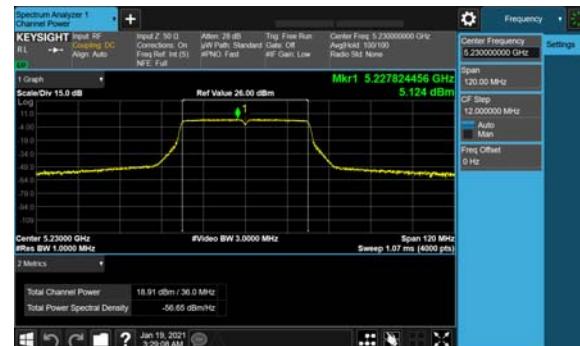
| | | | | | | | | |
|------------------------------------|---|----|------|------|-----|------|----|------|
| HE80+80, M0 to M9 2ss | 2 | 7 | 17.5 | 17.1 | 0.3 | 20.6 | 29 | 8.36 |
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | 13.6 | 13.2 | 0.3 | 16.7 | 26 | 9.3 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | 17.5 | 17.1 | 0.3 | 20.6 | 29 | 8.36 |
| HE80+80 STBC, M0 to M9 1ss | 2 | 7 | 17.5 | 17.1 | 0.3 | 20.6 | 29 | 8.36 |

Data Screenshots

5230 MHz: HT/VHT40 Beam Forming, M8 to M15



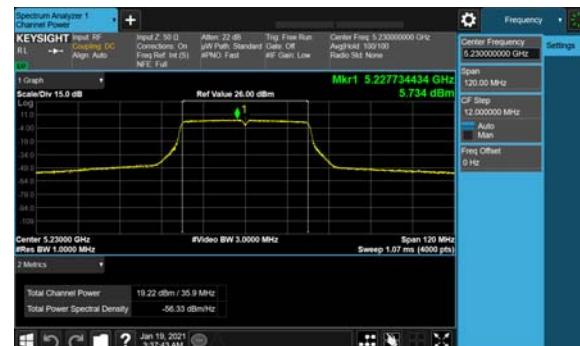
Antenna A



Antenna B



Antenna C

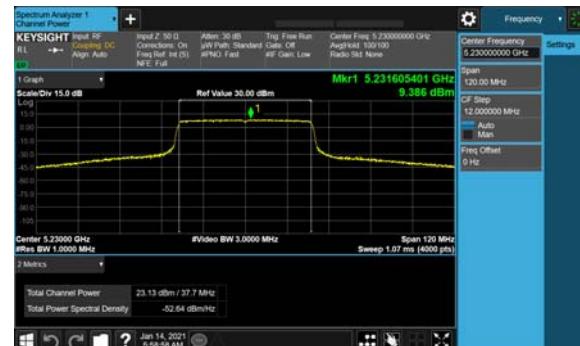


Antenna D

5230 MHz: HE40, M0 to M9 3ss



Antenna A

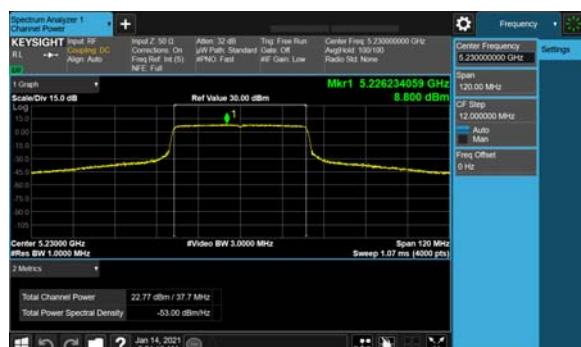


Antenna B

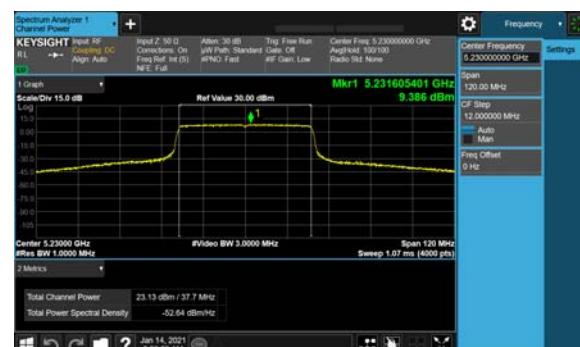


Antenna C

5230 MHz: HE40 Beam Forming, M0 to M9 3ss



Antenna A



Antenna B



Antenna C

Maximum Conducted Power >30 degrees

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dBm) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------------------------|-------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | -7 | 22.1 | | | | 0.3 | 15.4 | 21.0 | 5.59 |
| Non HT20, 6 to 54 Mbps | 2 | -7 | 18.4 | 18.0 | | | 0.3 | 14.6 | 21.0 | 6.42 |
| Non HT20, 6 to 54 Mbps | 3 | -7 | 15.5 | 15.2 | 14.9 | | 0.3 | 13.3 | 21.0 | 7.66 |
| Non HT20, 6 to 54 Mbps | 4 | -7 | 13.5 | 13.3 | 13.1 | 13.2 | 0.3 | 12.7 | 21.0 | 8.35 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | -4 | 18.4 | 18.0 | | | 0.3 | 17.6 | 21.0 | 3.42 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | -2 | 15.5 | 15.2 | 14.9 | | 0.3 | 18.3 | 21.0 | 2.66 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | -1 | 13.5 | 13.3 | 13.1 | 13.2 | 0.3 | 18.7 | 21.0 | 2.35 |
| HT/VHT20, M0 to M7 | 1 | -7 | 22.1 | | | | 0.2 | 15.4 | 21.0 | 5.64 |
| HT/VHT20, M0 to M7 | 2 | -7 | 20.3 | 20.2 | | | 0.2 | 16.5 | 21.0 | 4.48 |
| HT/VHT20, M8 to M15 | 2 | -7 | 20.9 | 20.9 | | | 0.2 | 17.1 | 21.0 | 3.86 |
| HT/VHT20, M0 to M7 | 3 | -7 | 16.6 | 16.0 | 15.6 | | 0.2 | 14.1 | 21.0 | 6.94 |
| HT/VHT20, M8 to M15 | 3 | -7 | 19.3 | 18.7 | 18.8 | | 0.2 | 17.0 | 21.0 | 4.04 |
| HT/VHT20, M16 to M23 | 3 | -7 | 19.3 | 18.7 | 18.8 | | 0.2 | 17.0 | 21.0 | 4.04 |
| HT/VHT20, M0 to M7 | 4 | -7 | 14.5 | 14.4 | 14.0 | 14.1 | 0.2 | 13.5 | 21.0 | 7.48 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|-----|------|------|------|
| HT/VHT20, M8 to M15 | 4 | -7 | 17.3 | 17.2 | 16.9 | 16.8 | 0.2 | 16.3 | 21.0 | 4.69 |
| HT/VHT20, M16 to M23 | 4 | -7 | 19.3 | 18.7 | 18.8 | 19.0 | 0.2 | 18.2 | 21.0 | 2.79 |
| HT/VHT20, M24 to M31 | 4 | -7 | 19.3 | 18.7 | 18.8 | 19.0 | 0.2 | 18.2 | 21.0 | 2.79 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | -4 | 19.3 | 18.7 | | | 0.2 | 18.3 | 21.0 | 2.72 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | -7 | 20.9 | 20.9 | | | 0.2 | 17.1 | 21.0 | 3.86 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | -2 | 16.6 | 16.0 | 15.6 | | 0.2 | 19.1 | 21.0 | 1.94 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | -5 | 19.3 | 18.7 | 18.8 | | 0.2 | 19.0 | 21.0 | 2.04 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | -7 | 19.3 | 18.7 | 18.8 | | 0.2 | 17.0 | 21.0 | 4.04 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | -1 | 13.6 | 13.3 | 13.3 | 13.1 | 0.2 | 18.6 | 21.0 | 2.41 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | -4 | 16.6 | 16.0 | 15.6 | 16.2 | 0.2 | 18.3 | 21.0 | 2.65 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | -6 | 19.3 | 18.7 | 18.8 | 19.0 | 0.2 | 19.2 | 21.0 | 1.79 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | -7 | 19.3 | 18.7 | 18.8 | 19.0 | 0.2 | 18.2 | 21.0 | 2.79 |
| HT/VHT20 STBC, M0 to M7 | 2 | -7 | 20.9 | 20.9 | | | 0.2 | 17.1 | 21.0 | 3.86 |
| HT/VHT20 STBC, M0 to M7 | 3 | -7 | 19.3 | 18.7 | 18.8 | | 0.2 | 17.0 | 21.0 | 4.04 |
| HT/VHT20 STBC, M0 to M7 | 4 | -7 | 17.3 | 17.2 | 16.9 | 16.8 | 0.2 | 16.3 | 21.0 | 4.69 |
| HE20, M0 to M9 1ss | 1 | -7 | 21.1 | | | | 0.2 | 14.3 | 21.0 | 6.67 |
| HE20, M0 to M9 1ss | 2 | -7 | 20.1 | 20.1 | | | 0.2 | 16.3 | 21.0 | 4.71 |
| HE20, M0 to M9 2ss | 2 | -7 | 21.1 | 21.1 | | | 0.2 | 17.3 | 21.0 | 3.68 |
| HE20, M0 to M9 1ss | 3 | -7 | 16.7 | 16.4 | 16.3 | | 0.2 | 14.4 | 21.0 | 6.56 |
| HE20, M0 to M9 2ss | 3 | -7 | 19.5 | 19.2 | 19.0 | | 0.2 | 17.2 | 21.0 | 3.79 |
| HE20, M0 to M9 3ss | 3 | -7 | 19.5 | 19.2 | 19.0 | | 0.2 | 17.2 | 21.0 | 3.79 |
| HE20, M0 to M9 1ss | 4 | -7 | 14.9 | 14.5 | 14.4 | 14.5 | 0.2 | 13.8 | 21.0 | 7.23 |
| HE20, M0 to M9 2ss | 4 | -7 | 17.6 | 17.2 | 16.9 | 17.1 | 0.2 | 16.4 | 21.0 | 4.58 |
| HE20, M0 to M9 3ss | 4 | -7 | 18.4 | 18.3 | 17.9 | 17.9 | 0.2 | 17.3 | 21.0 | 3.65 |
| HE20, M0 to M9 4ss | 4 | -7 | 18.4 | 18.3 | 17.9 | 17.9 | 0.2 | 17.3 | 21.0 | 3.65 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | -4 | 18.4 | 18.3 | | | 0.2 | 17.5 | 21.0 | 3.46 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | -7 | 21.1 | 21.1 | | | 0.2 | 17.3 | 21.0 | 3.68 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | -2 | 14.9 | 14.5 | 14.4 | | 0.2 | 17.5 | 21.0 | 3.45 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | -5 | 18.4 | 18.3 | 17.9 | | 0.2 | 18.2 | 21.0 | 2.83 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | -7 | 19.5 | 19.2 | 19.0 | | 0.2 | 17.2 | 21.0 | 3.79 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | -1 | 13.7 | 13.6 | 13.4 | 13.3 | 0.2 | 18.7 | 21.0 | 2.29 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | -4 | 16.7 | 16.4 | 16.3 | 16.3 | 0.2 | 18.6 | 21.0 | 2.37 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | -6 | 18.4 | 18.3 | 17.9 | 17.9 | 0.2 | 18.3 | 21.0 | 2.65 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | -7 | 18.4 | 18.3 | 17.9 | 17.9 | 0.2 | 17.3 | 21.0 | 3.65 |
| HE20 STBC, M0 to M9 2ss | 2 | -7 | 21.1 | 21.1 | | | 0.2 | 17.3 | 21.0 | 3.68 |
| HE20 STBC, M0 to M9 2ss | 3 | -7 | 19.5 | 19.2 | 19.0 | | 0.2 | 17.2 | 21.0 | 3.79 |
| HE20 STBC, M0 to M9 2ss | 4 | -7 | 17.6 | 17.2 | 16.9 | 17.1 | 0.2 | 16.4 | 21.0 | 4.58 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|------------------------------------|-------------|-------------|
| Non HT40, 6 to 54 Mbps | 1 | -7 | 17.9 | | | | 0.4 | 11.2 | 21.0 | 9.75 |
| Non HT40, 6 to 54 Mbps | 2 | -7 | 17.9 | 18.1 | | | 0.4 | 14.4 | 21.0 | 6.65 |
| Non HT40, 6 to 54 Mbps | 3 | -7 | 16.9 | 17.2 | 16.8 | | 0.4 | 15.1 | 21.0 | 5.93 |
| Non HT40, 6 to 54 Mbps | 4 | -7 | 15.9 | 16.2 | 15.8 | 15.6 | 0.3 | 15.2 | 21.0 | 5.76 |
| HT/VHT40, M0 to M7 | 1 | -7 | 20.1 | | | | 0.3 | 13.4 | 21.0 | 7.58 |
| HT/VHT40, M0 to M7 | 2 | -7 | 20.1 | 20.1 | | | 0.3 | 16.4 | 21.0 | 4.58 |
| HT/VHT40, M8 to M15 | 2 | -7 | 20.1 | 20.1 | | | 0.3 | 16.4 | 21.0 | 4.58 |
| HT/VHT40, M0 to M7 | 3 | -7 | 18.4 | 18.2 | 17.9 | | 0.3 | 16.2 | 21.0 | 4.78 |
| HT/VHT40, M8 to M15 | 3 | -7 | 18.4 | 18.2 | 17.9 | | 0.3 | 16.2 | 21.0 | 4.78 |
| HT/VHT40, M16 to M23 | 3 | -7 | 18.4 | 18.2 | 17.9 | | 0.3 | 16.2 | 21.0 | 4.78 |
| HT/VHT40, M0 to M7 | 4 | -7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.3 | 16.4 | 21.0 | 4.62 |
| HT/VHT40, M8 to M15 | 4 | -7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.3 | 16.4 | 21.0 | 4.62 |
| HT/VHT40, M16 to M23 | 4 | -7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.3 | 16.4 | 21.0 | 4.62 |
| HT/VHT40, M24 to M31 | 4 | -7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.3 | 16.4 | 21.0 | 4.62 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | -4 | 15.7 | 15.2 | | | 0.3 | 14.7 | 21.0 | 6.27 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | -7 | 20.1 | 20.1 | | | 0.3 | 16.4 | 21.0 | 4.58 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | -2 | 13.7 | 13.4 | 13.2 | | 0.3 | 16.5 | 21.0 | 4.53 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | -5 | 15.7 | 15.2 | 15.2 | | 0.3 | 15.4 | 21.0 | 5.59 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | -7 | 18.4 | 18.2 | 17.9 | | 0.3 | 16.2 | 21.0 | 4.78 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | -1 | 11.6 | 11.3 | 11.3 | 10.9 | 0.3 | 16.6 | 21.0 | 4.43 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | -4 | 13.7 | 13.4 | 13.2 | 13.0 | 0.3 | 15.6 | 21.0 | 5.39 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | -6 | 15.7 | 15.2 | 15.2 | 15.0 | 0.3 | 15.6 | 21.0 | 5.43 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | -7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.3 | 16.4 | 21.0 | 4.62 |
| HT/VHT40 STBC, M0 to M7 | 2 | -7 | 20.1 | 20.1 | | | 0.3 | 16.4 | 21.0 | 4.58 |
| HT/VHT40 STBC, M0 to M7 | 3 | -7 | 18.4 | 18.2 | 17.9 | | 0.3 | 16.2 | 21.0 | 4.78 |
| HT/VHT40 STBC, M0 to M7 | 4 | -7 | 17.4 | 17.3 | 16.8 | 16.7 | 0.3 | 16.4 | 21.0 | 4.62 |
| HE40, M0 to M9 1ss | 1 | -7 | 20.9 | | | | 0.2 | 14.1 | 21.0 | 6.88 |
| HE40, M0 to M9 1ss | 2 | -7 | 18.8 | 18.6 | | | 0.2 | 14.9 | 21.0 | 6.06 |
| HE40, M0 to M9 2ss | 2 | -7 | 18.8 | 18.6 | | | 0.2 | 14.9 | 21.0 | 6.06 |

| | | | | | | | | | | |
|---------------------------------|---|----|------|------|------|------|-----|------|------|------|
| HE40, M0 to M9 1ss | 3 | -7 | 18.0 | 17.7 | 17.4 | | 0.2 | 15.7 | 21.0 | 5.34 |
| HE40, M0 to M9 2ss | 3 | -7 | 18.0 | 17.7 | 17.4 | | 0.2 | 15.7 | 21.0 | 5.34 |
| HE40, M0 to M9 3ss | 3 | -7 | 18.0 | 17.7 | 17.4 | | 0.2 | 15.7 | 21.0 | 5.34 |
| HE40, M0 to M9 1ss | 4 | -7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.3 | 16.0 | 21.0 | 4.99 |
| HE40, M0 to M9 2ss | 4 | -7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.3 | 16.0 | 21.0 | 4.99 |
| HE40, M0 to M9 3ss | 4 | -7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.3 | 16.0 | 21.0 | 4.99 |
| HE40, M0 to M9 4ss | 4 | -7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.3 | 16.0 | 21.0 | 4.99 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | -4 | 16.2 | 15.7 | | | 0.2 | 15.2 | 21.0 | 5.83 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | -7 | 18.8 | 18.6 | | | 0.2 | 14.9 | 21.0 | 6.06 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | -2 | 13.1 | 12.9 | 12.6 | | 0.2 | 15.9 | 21.0 | 5.14 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | -5 | 16.2 | 15.7 | 15.5 | | 0.2 | 15.8 | 21.0 | 5.21 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | -7 | 18.0 | 17.7 | 17.4 | | 0.2 | 15.7 | 21.0 | 5.34 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | -1 | 12.1 | 11.6 | 11.7 | 11.7 | 0.2 | 17.0 | 21.0 | 4.02 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | -4 | 13.9 | 14.0 | 13.8 | 13.4 | 0.2 | 16.0 | 21.0 | 5.03 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | -6 | 16.2 | 15.7 | 15.5 | 15.3 | 0.2 | 15.9 | 21.0 | 5.08 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | -7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.3 | 16.0 | 21.0 | 4.99 |
| HE40 STBC, M0 to M9 2ss | 2 | -7 | 18.8 | 18.6 | | | 0.2 | 14.9 | 21.0 | 6.06 |
| HE40 STBC, M0 to M9 2ss | 3 | -7 | 18.0 | 17.7 | 17.4 | | 0.2 | 15.7 | 21.0 | 5.34 |
| HE40 STBC, M0 to M9 2ss | 4 | -7 | 17.0 | 16.8 | 16.4 | 16.3 | 0.3 | 16.0 | 21.0 | 4.99 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|------------------------------------|-------------|-------------|
| Non HT80, 6 to 54 Mbps | 1 | -7 | 19.0 | | | | 0.4 | 12.3 | 21.0 | 8.65 |
| Non HT80, 6 to 54 Mbps | 2 | -7 | 15.4 | 15.6 | | | 0.4 | 11.9 | 21.0 | 9.11 |
| Non HT80, 6 to 54 Mbps | 3 | -7 | 14.2 | 14.6 | 14.2 | | 0.4 | 12.5 | 21.0 | 8.52 |
| Non HT80, 6 to 54 Mbps | 4 | -7 | 13.3 | 13.5 | 13.0 | 13.6 | 0.4 | 12.7 | 21.0 | 8.28 |
| VHT80, M0 to M9 1ss | 1 | -7 | 19.6 | | | | 0.5 | 13.1 | 21.0 | 7.92 |
| VHT80, M0 to M9 1ss | 2 | -7 | 16.7 | 17.0 | | | 0.5 | 13.3 | 21.0 | 7.68 |
| VHT80, M0 to M9 2ss | 2 | -7 | 16.7 | 17.0 | | | 0.5 | 13.3 | 21.0 | 7.68 |
| VHT80, M0 to M9 1ss | 3 | -7 | 16.7 | 17.0 | 16.5 | | 0.5 | 15.0 | 21.0 | 6.05 |

| | | | | | | | | | | |
|----------------------------------|---|----|------|------|------|------|-----|------|------|------|
| VHT80, M0 to M9 2ss | 3 | -7 | 16.7 | 17.0 | 16.5 | | 0.5 | 15.0 | 21.0 | 6.05 |
| VHT80, M0 to M9 3ss | 3 | -7 | 16.7 | 17.0 | 16.5 | | 0.5 | 15.0 | 21.0 | 6.05 |
| VHT80, M0 to M9 1ss | 4 | -7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.5 | 15.2 | 21.0 | 5.80 |
| VHT80, M0 to M9 2ss | 4 | -7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.5 | 15.2 | 21.0 | 5.80 |
| VHT80, M0 to M9 3ss | 4 | -7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.5 | 15.2 | 21.0 | 5.80 |
| VHT80, M0 to M9 4ss | 4 | -7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.5 | 15.2 | 21.0 | 5.80 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | -4 | 14.4 | 15.2 | | | 0.5 | 14.3 | 21.0 | 6.72 |
| VHT80 Beam Forming, M0 to M9 2ss | 2 | -7 | 16.7 | 17.0 | | | 0.5 | 13.3 | 21.0 | 7.68 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | -2 | 12.0 | 12.0 | 11.5 | | 0.5 | 15.0 | 21.0 | 5.95 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | -5 | 14.4 | 15.2 | 14.4 | | 0.5 | 14.9 | 21.0 | 6.10 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | -7 | 16.7 | 17.0 | 16.5 | | 0.5 | 15.0 | 21.0 | 6.05 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | -1 | 10.6 | 10.9 | 10.9 | 10.9 | 0.5 | 16.3 | 21.0 | 4.70 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | -4 | 12.0 | 12.0 | 11.5 | 11.3 | 0.5 | 14.2 | 21.0 | 6.83 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | -6 | 14.4 | 15.2 | 14.4 | 14.9 | 0.5 | 15.2 | 21.0 | 5.80 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | -7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.5 | 15.2 | 21.0 | 5.80 |
| VHT80 STBC, M0 to M9 1ss | 2 | -7 | 16.7 | 17.0 | | | 0.5 | 13.3 | 21.0 | 7.68 |
| VHT80 STBC, M0 to M9 1ss | 3 | -7 | 16.7 | 17.0 | 16.5 | | 0.5 | 15.0 | 21.0 | 6.05 |
| VHT80 STBC, M0 to M9 1ss | 4 | -7 | 15.8 | 16.0 | 15.5 | 15.5 | 0.5 | 15.2 | 21.0 | 5.80 |
| HE80, M0 to M9 1ss | 1 | -7 | 19.1 | | | | 0.2 | 12.3 | 21.0 | 8.71 |
| HE80, M0 to M9 1ss | 2 | -7 | 17.2 | 17.5 | | | 0.2 | 13.6 | 21.0 | 7.42 |
| HE80, M0 to M9 2ss | 2 | -7 | 17.2 | 17.5 | | | 0.2 | 13.6 | 21.0 | 7.42 |
| HE80, M0 to M9 1ss | 3 | -7 | 17.2 | 17.5 | 17.1 | | 0.2 | 15.3 | 21.0 | 5.74 |
| HE80, M0 to M9 2ss | 3 | -7 | 17.2 | 17.5 | 17.1 | | 0.2 | 15.3 | 21.0 | 5.74 |
| HE80, M0 to M9 3ss | 3 | -7 | 17.2 | 17.5 | 17.1 | | 0.2 | 15.3 | 21.0 | 5.74 |
| HE80, M0 to M9 1ss | 4 | -7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.2 | 14.4 | 21.0 | 6.59 |
| HE80, M0 to M9 2ss | 4 | -7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.2 | 14.4 | 21.0 | 6.59 |
| HE80, M0 to M9 3ss | 4 | -7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.2 | 14.4 | 21.0 | 6.59 |
| HE80, M0 to M9 4ss | 4 | -7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.2 | 14.4 | 21.0 | 6.59 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | -4 | 15.4 | 15.3 | | | 0.2 | 14.6 | 21.0 | 6.43 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | -7 | 17.2 | 17.5 | | | 0.2 | 13.6 | 21.0 | 7.42 |
| HE80 Beam Forming, M0 to M9 1ss | 3 | -2 | 11.3 | 11.4 | 11.3 | | 0.2 | 14.3 | 21.0 | 6.68 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | -5 | 15.4 | 15.3 | 14.9 | | 0.2 | 15.2 | 21.0 | 5.81 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | -7 | 17.2 | 17.5 | 17.1 | | 0.2 | 15.3 | 21.0 | 5.74 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | -1 | 10.3 | 10.2 | 10.4 | 10.1 | 0.2 | 15.5 | 21.0 | 5.52 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | -4 | 12.4 | 12.3 | 12.3 | 12.3 | 0.2 | 14.5 | 21.0 | 6.46 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | -6 | 14.1 | 14.3 | 14.2 | 14.3 | 0.2 | 14.5 | 21.0 | 6.54 |
| HE80 Beam Forming, M0 to M9 4ss | 4 | -7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.2 | 14.4 | 21.0 | 6.59 |
| HE80 STBC, M0 to M9 1ss | 2 | -7 | 17.2 | 17.5 | | | 0.2 | 13.6 | 21.0 | 7.42 |
| HE80 STBC, M0 to M9 1ss | 3 | -7 | 17.2 | 17.5 | 17.1 | | 0.2 | 15.3 | 21.0 | 5.74 |

| | | | | | | | | | | |
|-------------------------|---|----|------|------|------|------|-----|------|------|------|
| HE80 STBC, M0 to M9 1ss | 4 | -7 | 15.4 | 15.3 | 14.9 | 15.1 | 0.2 | 14.4 | 21.0 | 6.59 |
|-------------------------|---|----|------|------|------|------|-----|------|------|------|

Frequency 5220 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|------------------------------------|-------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | -7 | 22.5 | | | | 0.3 | 15.9 | 21.0 | 5.12 |
| Non HT20, 6 to 54 Mbps | 2 | -7 | 20.0 | 20.0 | | | 0.3 | 16.4 | 21.0 | 4.64 |
| Non HT20, 6 to 54 Mbps | 3 | -7 | 16.1 | 16.2 | 16.3 | | 0.3 | 14.3 | 21.0 | 6.67 |
| Non HT20, 6 to 54 Mbps | 4 | -7 | 13.3 | 13.2 | 13.4 | 13.5 | 0.3 | 12.7 | 21.0 | 8.27 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | -4 | 20.0 | 20.0 | | | 0.3 | 19.4 | 21.0 | 1.64 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | -2 | 16.1 | 16.2 | 16.3 | | 0.3 | 19.3 | 21.0 | 1.67 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | -1 | 13.3 | 13.2 | 13.4 | 13.5 | 0.3 | 18.7 | 21.0 | 2.27 |
| HT/VHT20, M0 to M7 | 1 | -7 | 22.6 | | | | 0.2 | 15.8 | 21.0 | 5.16 |
| HT/VHT20, M0 to M7 | 2 | -7 | 19.8 | 20.0 | | | 0.2 | 16.2 | 21.0 | 4.84 |
| HT/VHT20, M8 to M15 | 2 | -7 | 22.6 | 23.1 | | | 0.2 | 19.1 | 21.0 | 1.91 |
| HT/VHT20, M0 to M7 | 3 | -7 | 16.2 | 16.1 | 15.8 | | 0.2 | 14.1 | 21.0 | 6.94 |
| HT/VHT20, M8 to M15 | 3 | -7 | 19.0 | 19.2 | 19.1 | | 0.2 | 17.1 | 21.0 | 3.92 |
| HT/VHT20, M16 to M23 | 3 | -7 | 20.9 | 20.8 | 20.7 | | 0.2 | 18.8 | 21.0 | 2.19 |
| HT/VHT20, M0 to M7 | 4 | -7 | 13.2 | 13.0 | 13.5 | 13.7 | 0.2 | 12.6 | 21.0 | 8.40 |
| HT/VHT20, M8 to M15 | 4 | -7 | 17.3 | 17.3 | 17.2 | 17.6 | 0.2 | 16.6 | 21.0 | 4.41 |
| HT/VHT20, M16 to M23 | 4 | -7 | 19.0 | 19.2 | 19.1 | 19.4 | 0.2 | 18.4 | 21.0 | 2.58 |
| HT/VHT20, M24 to M31 | 4 | -7 | 19.8 | 20.0 | 20.1 | 20.5 | 0.2 | 19.4 | 21.0 | 1.62 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | -4 | 19.8 | 20.0 | | | 0.2 | 19.2 | 21.0 | 1.84 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | -7 | 22.6 | 23.1 | | | 0.2 | 19.1 | 21.0 | 1.91 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | -2 | 16.2 | 16.1 | 15.8 | | 0.2 | 19.1 | 21.0 | 1.94 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | -5 | 19.0 | 19.2 | 19.1 | | 0.2 | 19.1 | 21.0 | 1.92 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | -7 | 20.9 | 20.8 | 20.7 | | 0.2 | 18.8 | 21.0 | 2.19 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | -1 | 13.2 | 13.0 | 13.5 | 13.7 | 0.2 | 18.6 | 21.0 | 2.40 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | -4 | 17.3 | 17.3 | 17.2 | 17.6 | 0.2 | 19.6 | 21.0 | 1.41 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | -6 | 19.0 | 19.2 | 19.1 | 19.4 | 0.2 | 19.4 | 21.0 | 1.58 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | -7 | 19.8 | 20.0 | 20.1 | 20.5 | 0.2 | 19.4 | 21.0 | 1.62 |

| | | | | | | | | | | |
|---------------------------------|---|----|------|------|------|------|-----|------|------|------|
| HT/VHT20 STBC, M0 to M7 | 2 | -7 | 22.6 | 23.1 | | | 0.2 | 19.1 | 21.0 | 1.91 |
| HT/VHT20 STBC, M0 to M7 | 3 | -7 | 19.0 | 19.2 | 19.1 | | 0.2 | 17.1 | 21.0 | 3.92 |
| HT/VHT20 STBC, M0 to M7 | 4 | -7 | 17.3 | 17.3 | 17.2 | 17.6 | 0.2 | 16.6 | 21.0 | 4.41 |
| HE20, M0 to M9 1ss | 1 | -7 | 22.9 | | | | 0.2 | 16.1 | 21.0 | 4.89 |
| HE20, M0 to M9 1ss | 2 | -7 | 20.0 | 20.5 | | | 0.2 | 16.4 | 21.0 | 4.57 |
| HE20, M0 to M9 2ss | 2 | -7 | 22.9 | 23.0 | | | 0.2 | 19.2 | 21.0 | 1.82 |
| HE20, M0 to M9 1ss | 3 | -7 | 16.6 | 16.5 | 16.5 | | 0.2 | 14.5 | 21.0 | 6.50 |
| HE20, M0 to M9 2ss | 3 | -7 | 19.2 | 19.3 | 19.3 | | 0.2 | 17.2 | 21.0 | 3.80 |
| HE20, M0 to M9 3ss | 3 | -7 | 21.2 | 21.3 | 21.3 | | 0.2 | 19.2 | 21.0 | 1.81 |
| HE20, M0 to M9 1ss | 4 | -7 | 14.4 | 14.5 | 14.7 | 14.8 | 0.2 | 13.8 | 21.0 | 7.21 |
| HE20, M0 to M9 2ss | 4 | -7 | 17.4 | 17.5 | 17.4 | 17.8 | 0.2 | 16.7 | 21.0 | 4.26 |
| HE20, M0 to M9 3ss | 4 | -7 | 19.2 | 19.3 | 19.3 | 19.4 | 0.2 | 18.5 | 21.0 | 2.49 |
| HE20, M0 to M9 4ss | 4 | -7 | 20.0 | 20.5 | 20.2 | 20.7 | 0.2 | 19.6 | 21.0 | 1.45 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | -4 | 20.0 | 20.5 | | | 0.2 | 19.4 | 21.0 | 1.57 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | -7 | 22.9 | 23.0 | | | 0.2 | 19.2 | 21.0 | 1.82 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | -2 | 16.6 | 16.5 | 16.5 | | 0.2 | 19.5 | 21.0 | 1.50 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | -5 | 19.2 | 19.3 | 19.3 | | 0.2 | 19.2 | 21.0 | 1.80 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | -7 | 21.2 | 21.3 | 21.3 | | 0.2 | 19.2 | 21.0 | 1.81 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | -1 | 14.4 | 14.5 | 14.7 | 14.8 | 0.2 | 19.8 | 21.0 | 1.21 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | -4 | 17.4 | 17.5 | 17.4 | 17.8 | 0.2 | 19.7 | 21.0 | 1.26 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | -6 | 19.2 | 19.3 | 19.3 | 19.4 | 0.2 | 19.5 | 21.0 | 1.49 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | -7 | 20.0 | 20.5 | 20.2 | 20.7 | 0.2 | 19.6 | 21.0 | 1.45 |
| HE20 STBC, M0 to M9 2ss | 2 | -7 | 22.9 | 23.0 | | | 0.2 | 19.2 | 21.0 | 1.82 |
| HE20 STBC, M0 to M9 2ss | 3 | -7 | 19.2 | 19.3 | 19.3 | | 0.2 | 17.2 | 21.0 | 3.80 |
| HE20 STBC, M0 to M9 2ss | 4 | -7 | 17.4 | 17.5 | 17.4 | 17.8 | 0.2 | 16.7 | 21.0 | 4.26 |

Frequency 5230 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|------------------------------------|-------------|-------------|
| Non HT40, 6 to 54 Mbps | 1 | -7 | 22.0 | | | | 0.4 | 15.3 | 21.0 | 5.69 |
| Non HT40, 6 to 54 Mbps | 2 | -7 | 22.0 | 22.4 | | | 0.4 | 18.6 | 21.0 | 2.43 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|-----|------|------|------|
| Non HT40, 6 to 54 Mbps | 3 | -7 | 18.2 | 18.6 | 18.0 | | 0.4 | 16.4 | 21.0 | 4.59 |
| Non HT40, 6 to 54 Mbps | 4 | -7 | 16.4 | 16.7 | 16.4 | 16.4 | 0.4 | 15.8 | 21.0 | 5.16 |
| HT/VHT40, M0 to M7 | 1 | -7 | 22.3 | | | | 0.3 | 15.6 | 21.0 | 5.42 |
| HT/VHT40, M0 to M7 | 2 | -7 | 22.3 | 22.7 | | | 0.3 | 18.8 | 21.0 | 2.22 |
| HT/VHT40, M8 to M15 | 2 | -7 | 22.3 | 22.7 | | | 0.3 | 18.8 | 21.0 | 2.22 |
| HT/VHT40, M0 to M7 | 3 | -7 | 18.5 | 18.9 | 17.5 | | 0.3 | 16.4 | 21.0 | 4.61 |
| HT/VHT40, M8 to M15 | 3 | -7 | 22.3 | 22.7 | 22.3 | | 0.3 | 20.5 | 21.0 | 0.52 |
| HT/VHT40, M16 to M23 | 3 | -7 | 22.3 | 22.7 | 22.3 | | 0.3 | 20.5 | 21.0 | 0.52 |
| HT/VHT40, M0 to M7 | 4 | -7 | 16.7 | 16.7 | 16.8 | 17.3 | 0.3 | 16.2 | 21.0 | 4.81 |
| HT/VHT40, M8 to M15 | 4 | -7 | 19.4 | 20.1 | 19.3 | 20.4 | 0.3 | 19.1 | 21.0 | 1.89 |
| HT/VHT40, M16 to M23 | 4 | -7 | 20.5 | 20.9 | 20.7 | 21.1 | 0.3 | 20.1 | 21.0 | 0.91 |
| HT/VHT40, M24 to M31 | 4 | -7 | 20.5 | 20.9 | 20.7 | 21.1 | 0.3 | 20.1 | 21.0 | 0.91 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | -4 | 21.2 | 21.8 | | | 0.3 | 20.8 | 21.0 | 0.23 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | -7 | 22.3 | 22.7 | | | 0.3 | 18.8 | 21.0 | 2.22 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | -2 | 17.7 | 17.8 | 17.8 | | 0.3 | 20.8 | 21.0 | 0.17 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | -5 | 20.5 | 20.9 | 20.7 | | 0.3 | 20.7 | 21.0 | 0.26 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | -7 | 22.3 | 22.7 | 22.3 | | 0.3 | 20.5 | 21.0 | 0.52 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | -1 | 14.7 | 15.3 | 14.9 | 15.6 | 0.3 | 20.4 | 21.0 | 0.57 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | -4 | 18.5 | 18.9 | 17.5 | 19.2 | 0.3 | 20.9 | 21.0 | 0.12 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | -6 | 19.4 | 20.1 | 19.3 | 20.4 | 0.3 | 20.1 | 21.0 | 0.89 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | -7 | 20.5 | 20.9 | 20.7 | 21.1 | 0.3 | 20.1 | 21.0 | 0.91 |
| HT/VHT40 STBC, M0 to M7 | 2 | -7 | 22.3 | 22.7 | | | 0.3 | 18.8 | 21.0 | 2.22 |
| HT/VHT40 STBC, M0 to M7 | 3 | -7 | 22.3 | 22.7 | 22.3 | | 0.3 | 20.5 | 21.0 | 0.52 |
| HT/VHT40 STBC, M0 to M7 | 4 | -7 | 19.4 | 20.1 | 19.3 | 20.4 | 0.3 | 19.1 | 21.0 | 1.89 |
| HE40, M0 to M9 1ss | 1 | -7 | 22.8 | | | | 0.2 | 16.0 | 21.0 | 5.04 |
| HE40, M0 to M9 1ss | 2 | -7 | 22.8 | 23.1 | | | 0.2 | 19.2 | 21.0 | 1.85 |
| HE40, M0 to M9 2ss | 2 | -7 | 22.8 | 23.1 | | | 0.2 | 19.2 | 21.0 | 1.85 |
| HE40, M0 to M9 1ss | 3 | -7 | 19.2 | 19.5 | 19.2 | | 0.2 | 17.3 | 21.0 | 3.73 |
| HE40, M0 to M9 2ss | 3 | -7 | 22.1 | 22.3 | 21.8 | | 0.2 | 20.0 | 21.0 | 0.97 |
| HE40, M0 to M9 3ss | 3 | -7 | 22.8 | 23.1 | 22.8 | | 0.2 | 20.9 | 21.0 | 0.14 |
| HE40, M0 to M9 1ss | 4 | -7 | 17.4 | 17.4 | 17.3 | 17.6 | 0.2 | 16.6 | 21.0 | 4.38 |
| HE40, M0 to M9 2ss | 4 | -7 | 20.1 | 20.3 | 20.1 | 20.7 | 0.2 | 19.5 | 21.0 | 1.51 |
| HE40, M0 to M9 3ss | 4 | -7 | 21.0 | 21.3 | 21.2 | 21.5 | 0.2 | 20.5 | 21.0 | 0.54 |
| HE40, M0 to M9 4ss | 4 | -7 | 21.0 | 21.3 | 21.2 | 21.5 | 0.2 | 20.5 | 21.0 | 0.54 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | -4 | 21.0 | 21.3 | | | 0.2 | 20.4 | 21.0 | 0.64 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | -7 | 22.8 | 23.1 | | | 0.2 | 19.2 | 21.0 | 1.85 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | -2 | 17.4 | 17.4 | 17.3 | | 0.2 | 20.3 | 21.0 | 0.69 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | -5 | 20.1 | 20.3 | 20.1 | | 0.2 | 20.1 | 21.0 | 0.90 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | -7 | 22.8 | 23.1 | 22.8 | | 0.2 | 20.9 | 21.0 | 0.14 |

| | | | | | | | | | | |
|---------------------------------|---|----|------|------|------|------|-----|------|------|------|
| HE40 Beam Forming, M0 to M9 1ss | 4 | -1 | 15.3 | 15.6 | 15.3 | 16.0 | 0.2 | 20.7 | 21.0 | 0.26 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | -4 | 18.0 | 18.4 | 18.0 | 18.6 | 0.2 | 20.5 | 21.0 | 0.52 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | -6 | 20.1 | 20.3 | 20.1 | 20.7 | 0.2 | 20.5 | 21.0 | 0.51 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | -7 | 21.0 | 21.3 | 21.2 | 21.5 | 0.2 | 20.5 | 21.0 | 0.54 |
| HE40 STBC, M0 to M9 2ss | 2 | -7 | 22.8 | 23.1 | | | 0.2 | 19.2 | 21.0 | 1.85 |
| HE40 STBC, M0 to M9 2ss | 3 | -7 | 22.1 | 22.3 | 21.8 | | 0.2 | 20.0 | 21.0 | 0.97 |
| HE40 STBC, M0 to M9 2ss | 4 | -7 | 20.1 | 20.3 | 20.1 | 20.7 | 0.2 | 19.5 | 21.0 | 1.51 |

Frequency 5240 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Duty Cycle (dB) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|------------------------------------|-------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | -7 | 22.2 | | | | 0.3 | 15.5 | 21.0 | 5.46 |
| Non HT20, 6 to 54 Mbps | 2 | -7 | 19.3 | 19.8 | | | 0.3 | 15.9 | 21.0 | 5.08 |
| Non HT20, 6 to 54 Mbps | 3 | -7 | 15.6 | 16.1 | 15.8 | | 0.3 | 13.9 | 21.0 | 7.08 |
| Non HT20, 6 to 54 Mbps | 4 | -7 | 12.6 | 13.0 | 12.8 | 13.5 | 0.3 | 12.3 | 21.0 | 8.65 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | -4 | 19.3 | 19.8 | | | 0.3 | 18.9 | 21.0 | 2.08 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | -2 | 15.6 | 16.1 | 15.8 | | 0.3 | 18.9 | 21.0 | 2.08 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | -1 | 12.6 | 13.0 | 12.8 | 13.5 | 0.3 | 18.3 | 21.0 | 2.65 |
| HT/VHT20, M0 to M7 | 1 | -7 | 21.9 | | | | 0.2 | 15.1 | 21.0 | 5.88 |
| HT/VHT20, M0 to M7 | 2 | -7 | 19.5 | 19.8 | | | 0.2 | 15.9 | 21.0 | 5.08 |
| HT/VHT20, M8 to M15 | 2 | -7 | 21.9 | 22.8 | | | 0.2 | 18.6 | 21.0 | 2.41 |
| HT/VHT20, M0 to M7 | 3 | -7 | 15.4 | 15.9 | 15.7 | | 0.2 | 13.7 | 21.0 | 7.33 |
| HT/VHT20, M8 to M15 | 3 | -7 | 19.5 | 19.8 | 19.6 | | 0.2 | 17.6 | 21.0 | 3.35 |
| HT/VHT20, M16 to M23 | 3 | -7 | 21.2 | 21.9 | 21.3 | | 0.2 | 19.5 | 21.0 | 1.53 |
| HT/VHT20, M0 to M7 | 4 | -7 | 13.6 | 14.1 | 13.9 | 14.3 | 0.2 | 13.2 | 21.0 | 7.78 |
| HT/VHT20, M8 to M15 | 4 | -7 | 16.8 | 17.1 | 16.5 | 17.3 | 0.2 | 16.2 | 21.0 | 4.80 |
| HT/VHT20, M16 to M23 | 4 | -7 | 18.6 | 19.1 | 18.5 | 19.1 | 0.2 | 18.1 | 21.0 | 2.92 |
| HT/VHT20, M24 to M31 | 4 | -7 | 19.5 | 19.8 | 19.6 | 20.1 | 0.2 | 19.0 | 21.0 | 1.98 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | -4 | 19.5 | 19.8 | | | 0.2 | 18.9 | 21.0 | 2.08 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | -7 | 21.9 | 22.8 | | | 0.2 | 18.6 | 21.0 | 2.41 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | -2 | 15.4 | 15.9 | 15.7 | | 0.2 | 18.7 | 21.0 | 2.33 |

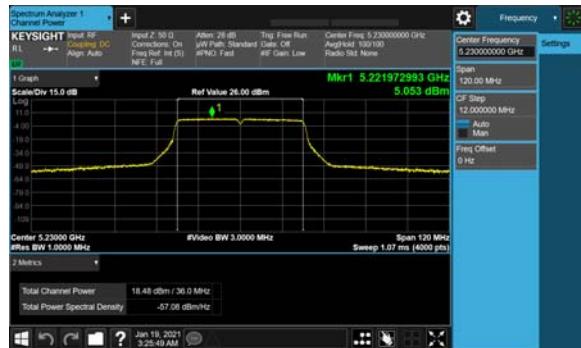
| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|-----|------|------|------|
| HT/VHT20 Beam Forming, M8 to M15 | 3 | -5 | 19.5 | 19.8 | 19.6 | | 0.2 | 19.6 | 21.0 | 1.35 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | -7 | 21.2 | 21.9 | 21.3 | | 0.2 | 19.5 | 21.0 | 1.53 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | -1 | 13.6 | 14.1 | 13.9 | 14.3 | 0.2 | 19.2 | 21.0 | 1.78 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | -4 | 16.8 | 17.1 | 16.5 | 17.3 | 0.2 | 19.2 | 21.0 | 1.80 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | -6 | 18.6 | 19.1 | 18.5 | 19.1 | 0.2 | 19.1 | 21.0 | 1.92 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | -7 | 19.5 | 19.8 | 19.6 | 20.1 | 0.2 | 19.0 | 21.0 | 1.98 |
| HT/VHT20 STBC, M0 to M7 | 2 | -7 | 21.9 | 22.8 | | | 0.2 | 18.6 | 21.0 | 2.41 |
| HT/VHT20 STBC, M0 to M7 | 3 | -7 | 19.5 | 19.8 | 19.6 | | 0.2 | 17.6 | 21.0 | 3.35 |
| HT/VHT20 STBC, M0 to M7 | 4 | -7 | 16.8 | 17.1 | 16.5 | 17.3 | 0.2 | 16.2 | 21.0 | 4.80 |
| HE20, M0 to M9 1ss | 1 | -7 | 22.5 | | | | 0.2 | 15.7 | 21.0 | 5.35 |
| HE20, M0 to M9 1ss | 2 | -7 | 19.7 | 20.2 | | | 0.2 | 16.2 | 21.0 | 4.84 |
| HE20, M0 to M9 2ss | 2 | -7 | 22.5 | 23.1 | | | 0.2 | 19.0 | 21.0 | 1.99 |
| HE20, M0 to M9 1ss | 3 | -7 | 16.0 | 16.5 | 16.2 | | 0.2 | 14.2 | 21.0 | 6.79 |
| HE20, M0 to M9 2ss | 3 | -7 | 19.7 | 20.2 | 19.7 | | 0.2 | 17.8 | 21.0 | 3.17 |
| HE20, M0 to M9 3ss | 3 | -7 | 21.5 | 21.9 | 21.5 | | 0.2 | 19.6 | 21.0 | 1.39 |
| HE20, M0 to M9 1ss | 4 | -7 | 14.0 | 14.3 | 14.2 | 14.8 | 0.2 | 13.5 | 21.0 | 7.48 |
| HE20, M0 to M9 2ss | 4 | -7 | 16.9 | 17.0 | 16.9 | 17.8 | 0.2 | 16.4 | 21.0 | 4.60 |
| HE20, M0 to M9 3ss | 4 | -7 | 18.9 | 19.2 | 18.9 | 19.6 | 0.2 | 18.4 | 21.0 | 2.63 |
| HE20, M0 to M9 4ss | 4 | -7 | 19.7 | 20.2 | 19.7 | 20.6 | 0.2 | 19.3 | 21.0 | 1.72 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | -4 | 19.7 | 20.2 | | | 0.2 | 19.2 | 21.0 | 1.84 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | -7 | 22.5 | 23.1 | | | 0.2 | 19.0 | 21.0 | 1.99 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | -2 | 16.0 | 16.5 | 16.2 | | 0.2 | 19.2 | 21.0 | 1.79 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | -5 | 19.7 | 20.2 | 19.7 | | 0.2 | 19.8 | 21.0 | 1.17 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | -7 | 21.5 | 21.9 | 21.5 | | 0.2 | 19.6 | 21.0 | 1.39 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | -1 | 14.0 | 14.3 | 14.2 | 14.8 | 0.2 | 19.5 | 21.0 | 1.48 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | -4 | 16.9 | 17.0 | 16.9 | 17.8 | 0.2 | 19.4 | 21.0 | 1.60 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | -6 | 18.9 | 19.2 | 18.9 | 19.6 | 0.2 | 19.4 | 21.0 | 1.63 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | -7 | 19.7 | 20.2 | 19.7 | 20.6 | 0.2 | 19.3 | 21.0 | 1.72 |
| HE20 STBC, M0 to M9 2ss | 2 | -7 | 22.5 | 23.1 | | | 0.2 | 19.0 | 21.0 | 1.99 |
| HE20 STBC, M0 to M9 2ss | 3 | -7 | 19.7 | 20.2 | 19.7 | | 0.2 | 17.8 | 21.0 | 3.17 |
| HE20 STBC, M0 to M9 2ss | 4 | -7 | 16.9 | 17.0 | 16.9 | 17.8 | 0.2 | 16.4 | 21.0 | 4.60 |

Frequency 5250 MHz

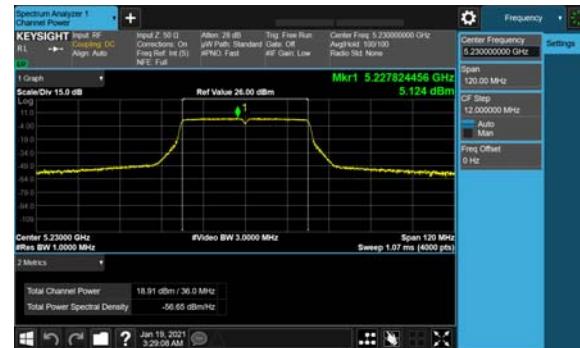
| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Duty Cycle (dB) | Total Radiated Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------------|----------------------------|-----------------|------------------------------------|-------------|-------------|
| Non HT80+80, 6 to 54 Mbps | 1 | -7 | 18.1 | | 0.4 | 11.5 | 21.0 | 9.48 |
| Non HT80+80, 6 to 54 Mbps | 2 | -7 | 16.3 | 15.7 | 0.4 | 12.4 | 21.0 | 8.61 |
| VHT80+80, M0 to M9 1ss | 1 | -7 | 18.9 | | 0.5 | 12.4 | 21.0 | 8.56 |
| VHT80+80, M0 to M9 1ss | 2 | -7 | 17.2 | 16.6 | 0.5 | 13.5 | 21.0 | 7.55 |
| VHT80+80, M0 to M9 2ss | 2 | -7 | 17.2 | 16.6 | 0.5 | 13.5 | 21.0 | 7.55 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | -4 | 14.3 | 13.6 | 0.5 | 13.5 | 21.0 | 7.51 |
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | -7 | 17.2 | 16.6 | 0.5 | 13.5 | 21.0 | 7.55 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | -7 | 17.2 | 16.6 | 0.5 | 13.5 | 21.0 | 7.55 |
| HE80+80, M0 to M9 1ss | 1 | -7 | 18.5 | | 0.3 | 11.8 | 21.0 | 9.19 |
| HE80+80, M0 to M9 1ss | 2 | -7 | 17.5 | 17.1 | 0.3 | 13.6 | 21.0 | 7.36 |
| HE80+80, M0 to M9 2ss | 2 | -7 | 17.5 | 17.1 | 0.3 | 13.6 | 21.0 | 7.36 |
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | -4 | 13.6 | 13.2 | 0.3 | 12.7 | 21.0 | 8.30 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | -7 | 17.5 | 17.1 | 0.3 | 13.6 | 21.0 | 7.36 |
| HE80+80 STBC, M0 to M9 1ss | 2 | -7 | 17.5 | 17.1 | 0.3 | 13.6 | 21.0 | 7.36 |

Data Screenshots

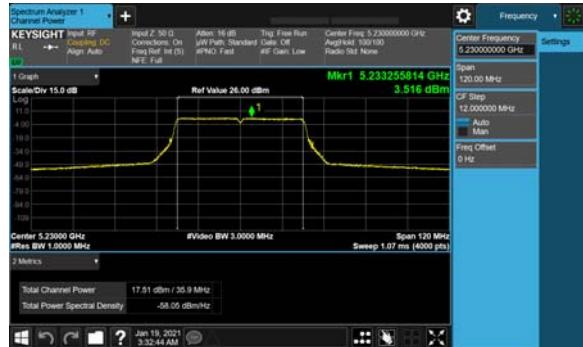
5230 MHz: HT/VHT40 Beam Forming, M8 to M15



Antenna A



Antenna B

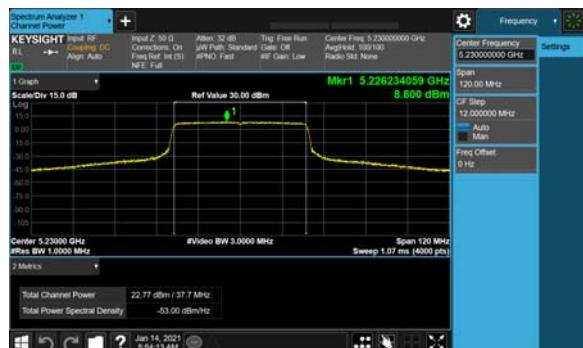


Antenna C



Antenna D

5230 MHz: HE40, M0 to M9 3ss



Antenna A

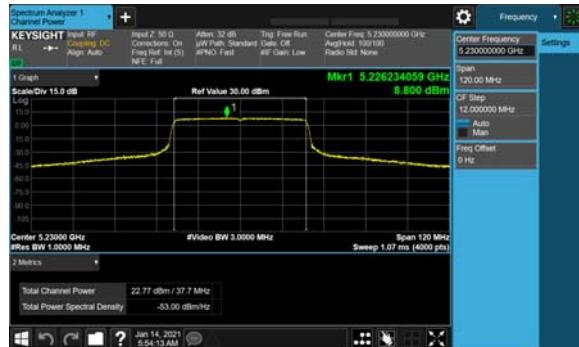


Antenna B



Antenna C

5230 MHz: HE40 Beam Forming, M0 to M9 3ss



Antenna A



Antenna B



Antenna C

A.4 Power Spectral Density

Power Spectral Density Test Requirement

15.407 General technical requirements, (a) Power limits: (1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz ... the maximum 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.

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

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

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

Power Spectral Density Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

F. Maximum Power Spectral Density (PSD)

| Power Spectral Density Test Procedure |
|---|
| <p>The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.</p> <ol style="list-style-type: none">1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...”. (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.3. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. |

4. The result is the Maximum PSD over 1 MHz reference bandwidth.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA), (d) Method SA-2

Power Spectral Density

Test parameters

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (i) Measure the duty cycle, x, of the transmitter output signal as described in section II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW \geq 3 MHz.
- (v) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to “free run”.
- (ix) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth)

F. Maximum Power Spectral Density (PSD)

2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

The “measure-and-sum technique” is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. ANSI C63.10 section 14.3.2.2

| | |
|---|--|
| Tested By : Said Abdelwafi, Julian Land | Date of testing: 12-JAN-2021 through 19-JAN-2021 08-MAR-2021 through 12-MAR-2021 08-APR-2021 through 09-APR-2021 |
| Test Result : PASS | |

Test Equipment

See Appendix C for list of test equipment

Power Spectral Density

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|--------------------|--------------------|--------------------|--------------------|-----------------|---------------------|-----------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | 11.5 | | | | 0.35 | 11.8 | 16 | 4.18 |
| Non HT20, 6 to 54 Mbps | 2 | 10 | 8.0 | 7.5 | | | 0.35 | 11.1 | 13 | 1.86 |
| Non HT20, 6 to 54 Mbps | 3 | 12 | 5.3 | 4.7 | 4.6 | | 0.35 | 10.0 | 11 | 1.02 |
| Non HT20, 6 to 54 Mbps | 4 | 13 | 3.1 | 3.0 | 2.7 | 2.7 | 0.35 | 9.2 | 10 | 0.77 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | 8.0 | 7.5 | | | 0.35 | 11.1 | 13 | 1.86 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | 5.3 | 4.7 | 4.6 | | 0.35 | 10.0 | 11 | 1.02 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | 3.1 | 3.0 | 2.7 | 2.7 | 0.35 | 9.2 | 10 | 0.77 |
| HT/VHT20, M0 to M7 | 1 | 7 | 11.4 | | | | 0.24 | 11.7 | 16 | 4.31 |
| HT/VHT20, M0 to M7 | 2 | 10 | 9.5 | 9.4 | | | 0.24 | 12.7 | 13 | 0.33 |
| HT/VHT20, M8 to M15 | 2 | 7 | 10.2 | 10.5 | | | 0.24 | 13.6 | 16 | 2.42 |
| HT/VHT20, M0 to M7 | 3 | 12 | 6.3 | 5.4 | 4.9 | | 0.19 | 10.5 | 11 | 0.48 |
| HT/VHT20, M8 to M15 | 3 | 9 | 9.0 | 8.3 | 8.0 | | 0.24 | 13.5 | 14 | 0.53 |
| HT/VHT20, M16 to M23 | 3 | 7 | 9.0 | 8.3 | 8.0 | | 0.24 | 13.5 | 16 | 2.53 |
| HT/VHT20, M0 to M7 | 4 | 13 | 3.9 | 3.8 | 3.3 | 3.7 | 0.24 | 9.9 | 10 | 0.07 |
| HT/VHT20, M8 to M15 | 4 | 10 | 6.8 | 6.6 | 6.3 | 6.5 | 0.24 | 12.8 | 13 | 0.21 |
| HT/VHT20, M16 to M23 | 4 | 8 | 9.0 | 8.3 | 8.0 | 8.4 | 0.24 | 14.7 | 15 | 0.3 |
| HT/VHT20, M24 to M31 | 4 | 7 | 9.0 | 8.3 | 8.0 | 8.4 | 0.24 | 14.7 | 16 | 1.3 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | 9.0 | 8.3 | | | 0.24 | 11.9 | 13 | 1.08 |

| | | | | | | | | | | |
|-----------------------------------|----------|-----------|------------|------------|------------|------------|-------------|-------------|-----------|------------|
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | 10.2 | 10.5 | | | 0.24 | 13.6 | 16 | 2.42 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | 6.3 | 5.4 | 4.9 | | 0.19 | 10.5 | 11 | 0.48 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | 9.0 | 8.3 | 8.0 | | 0.24 | 13.5 | 14 | 0.53 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | 9.0 | 8.3 | 8.0 | | 0.24 | 13.5 | 16 | 2.53 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | 2.8 | 3.2 | 2.5 | 2.5 | 0.24 | 9.0 | 10 | 0.97 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | 6.3 | 5.4 | 4.9 | 5.6 | 0.19 | 11.8 | 13 | 1.22 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | 9.0 | 8.3 | 8.0 | 8.4 | 0.24 | 14.7 | 15 | 0.3 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | 9.0 | 8.3 | 8.0 | 8.4 | 0.24 | 14.7 | 16 | 1.3 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | 10.2 | 10.5 | | | 0.24 | 13.6 | 16 | 2.42 |
| HT/VHT20 STBC, M0 to M7 | 3 | 9 | 9.0 | 8.3 | 8.0 | | 0.24 | 13.5 | 14 | 0.53 |
| HT/VHT20 STBC, M0 to M7 | 4 | 10 | 6.8 | 6.6 | 6.3 | 6.5 | 0.24 | 12.8 | 13 | 0.21 |
| HE20, M0 to M9 1ss | 1 | 7 | 10.5 | | | | 0.19 | 10.7 | 16 | 5.33 |
| HE20, M0 to M9 1ss | 2 | 10 | 9.3 | 9.3 | | | 0.19 | 12.5 | 13 | 0.53 |
| HE20, M0 to M9 2ss | 2 | 7 | 10.5 | 10.2 | | | 0.19 | 13.5 | 16 | 2.46 |
| HE20, M0 to M9 1ss | 3 | 12 | 5.8 | 5.7 | 5.9 | | 0.19 | 10.8 | 11 | 0.23 |
| HE20, M0 to M9 2ss | 3 | 9 | 8.6 | 8.2 | 8.1 | | 0.19 | 13.2 | 14 | 0.76 |
| HE20, M0 to M9 3ss | 3 | 7 | 8.6 | 8.2 | 8.1 | | 0.19 | 13.2 | 16 | 2.76 |
| HE20, M0 to M9 1ss | 4 | 13 | 4.1 | 4.1 | 3.6 | 3.4 | 0.19 | 10.0 | 10 | 0.0 |
| HE20, M0 to M9 2ss | 4 | 10 | 6.6 | 6.5 | 6.3 | 6.3 | 0.19 | 12.6 | 13 | 0.37 |
| HE20, M0 to M9 3ss | 4 | 8 | 7.7 | 7.4 | 7.2 | 7.2 | 0.19 | 13.6 | 15 | 1.42 |
| HE20, M0 to M9 4ss | 4 | 7 | 7.7 | 7.4 | 7.2 | 7.2 | 0.19 | 13.6 | 16 | 2.42 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | 7.7 | 7.4 | | | 0.19 | 10.7 | 13 | 2.26 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | 10.5 | 10.2 | | | 0.19 | 13.5 | 16 | 2.46 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | 4.1 | 4.1 | 3.6 | | 0.19 | 8.9 | 11 | 2.12 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | 7.7 | 7.4 | 7.2 | | 0.19 | 12.4 | 14 | 1.61 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | 8.6 | 8.2 | 8.1 | | 0.19 | 13.2 | 16 | 2.76 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | 2.9 | 2.8 | 2.6 | 2.4 | 0.19 | 8.9 | 10 | 1.12 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | 5.8 | 5.7 | 5.9 | 5.3 | 0.19 | 11.9 | 13 | 1.1 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | 7.7 | 7.4 | 7.2 | 7.2 | 0.19 | 13.6 | 15 | 1.42 |

| | | | | | | | | | | |
|------------------------------------|---|----|------|------|-----|-----|------|------|----|------|
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | 7.7 | 7.4 | 7.2 | 7.2 | 0.19 | 13.6 | 16 | 2.42 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | 10.5 | 10.2 | | | 0.19 | 13.5 | 16 | 2.46 |
| HE20 STBC, M0 to M9 2ss | 3 | 9 | 8.6 | 8.2 | 8.1 | | 0.19 | 13.2 | 14 | 0.76 |
| HE20 STBC, M0 to M9 2ss | 4 | 10 | 6.6 | 6.5 | 6.3 | 6.3 | 0.19 | 12.6 | 13 | 0.37 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|---------------------------|----------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|------------------------|--------------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | 4.7 | | | | 0.36 | 5.0 | 16 | 10.98 |
| Non HT40, 6 to 54 Mbps | 2 | 10 | 4.7 | 4.7 | | | 0.36 | 8.0 | 13 | 4.96 |
| Non HT40, 6 to 54 Mbps | 3 | 12 | 3.7 | 3.7 | 3.6 | | 0.36 | 8.8 | 11 | 2.21 |
| Non HT40, 6 to 54 Mbps | 4 | 13 | 2.7 | 2.9 | 2.6 | 2.2 | 0.35 | 9.0 | 10 | 1.02 |
| HT/VHT40, M0 to M7 | 1 | 7 | 6.6 | | | | 0.28 | 6.9 | 16 | 9.11 |
| HT/VHT40, M0 to M7 | 2 | 10 | 6.6 | 6.6 | | | 0.28 | 9.9 | 13 | 3.11 |
| HT/VHT40, M8 to M15 | 2 | 7 | 6.6 | 6.6 | | | 0.28 | 9.9 | 16 | 6.11 |
| HT/VHT40, M0 to M7 | 3 | 12 | 5.1 | 4.7 | 4.2 | | 0.28 | 9.7 | 11 | 1.28 |
| HT/VHT40, M8 to M15 | 3 | 9 | 5.1 | 4.7 | 4.2 | | 0.28 | 9.7 | 14 | 4.28 |
| HT/VHT40, M16 to M23 | 3 | 7 | 5.1 | 4.7 | 4.2 | | 0.28 | 9.7 | 16 | 6.28 |
| HT/VHT40, M0 to M7 | 4 | 13 | 3.8 | 3.6 | 3.1 | 2.9 | 0.28 | 9.7 | 10 | 0.32 |
| HT/VHT40, M8 to M15 | 4 | 10 | 3.8 | 3.6 | 3.1 | 2.9 | 0.28 | 9.7 | 13 | 3.32 |
| HT/VHT40, M16 to M23 | 4 | 8 | 3.8 | 3.6 | 3.1 | 2.9 | 0.28 | 9.7 | 15 | 5.32 |
| HT/VHT40, M24 to M31 | 4 | 7 | 3.8 | 3.6 | 3.1 | 2.9 | 0.28 | 9.7 | 16 | 6.32 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|------|-----|----|------|
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | 2.4 | 1.7 | | | 0.28 | 5.3 | 13 | 7.68 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | 6.6 | 6.6 | | | 0.28 | 9.9 | 16 | 6.11 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | 0.2 | -0.1 | -0.5 | | 0.28 | 4.9 | 11 | 6.09 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | 2.4 | 1.7 | 1.3 | | 0.28 | 6.9 | 14 | 7.14 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | 5.1 | 4.7 | 4.2 | | 0.28 | 9.7 | 16 | 6.28 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -2.0 | -2.4 | -2.5 | -3.0 | 0.28 | 3.9 | 10 | 6.15 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | 0.2 | -0.1 | -0.5 | -0.6 | 0.28 | 6.0 | 13 | 6.97 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | 2.4 | 1.7 | 1.3 | 1.5 | 0.28 | 8.0 | 15 | 6.95 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | 3.8 | 3.6 | 3.1 | 2.9 | 0.28 | 9.7 | 16 | 6.32 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | 6.6 | 6.6 | | | 0.28 | 9.9 | 16 | 6.11 |
| HT/VHT40 STBC, M0 to M7 | 3 | 9 | 5.1 | 4.7 | 4.2 | | 0.28 | 9.7 | 14 | 4.28 |
| HT/VHT40 STBC, M0 to M7 | 4 | 10 | 3.8 | 3.6 | 3.1 | 2.9 | 0.28 | 9.7 | 13 | 3.32 |
| HE40, M0 to M9 1ss | 1 | 7 | 7.1 | | | | 0.19 | 7.3 | 16 | 8.68 |
| HE40, M0 to M9 1ss | 2 | 10 | 4.8 | 5.0 | | | 0.19 | 8.1 | 13 | 4.87 |
| HE40, M0 to M9 2ss | 2 | 7 | 4.8 | 5.0 | | | 0.19 | 8.1 | 16 | 7.87 |
| HE40, M0 to M9 1ss | 3 | 12 | 4.1 | 4.4 | 3.6 | | 0.19 | 9.0 | 11 | 2.02 |
| HE40, M0 to M9 2ss | 3 | 9 | 4.1 | 4.4 | 3.6 | | 0.19 | 9.0 | 14 | 5.02 |
| HE40, M0 to M9 3ss | 3 | 7 | 4.1 | 4.4 | 3.6 | | 0.19 | 9.0 | 16 | 7.02 |
| HE40, M0 to M9 1ss | 4 | 13 | 3.5 | 3.1 | 2.3 | 2.5 | 0.34 | 9.2 | 10 | 0.8 |
| HE40, M0 to M9 2ss | 4 | 10 | 3.5 | 3.1 | 2.3 | 2.5 | 0.34 | 9.2 | 13 | 3.8 |
| HE40, M0 to M9 3ss | 4 | 8 | 3.5 | 3.1 | 2.3 | 2.5 | 0.34 | 9.2 | 15 | 5.8 |
| HE40, M0 to M9 4ss | 4 | 7 | 3.5 | 3.1 | 2.3 | 2.5 | 0.34 | 9.2 | 16 | 6.8 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | 2.7 | 2.1 | | | 0.19 | 5.6 | 13 | 7.39 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | 4.8 | 5.0 | | | 0.19 | 8.1 | 16 | 7.87 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -0.7 | -0.9 | -1.4 | | 0.19 | 4.0 | 11 | 7.01 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | 2.7 | 2.1 | 1.6 | | 0.19 | 7.1 | 14 | 6.89 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | 4.1 | 4.4 | 3.6 | | 0.19 | 9.0 | 16 | 7.02 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -1.7 | -2.0 | -2.2 | -2.2 | 0.19 | 4.2 | 10 | 5.82 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | 0.1 | 0.4 | -0.1 | -0.6 | 0.19 | 6.2 | 13 | 6.82 |

| | | | | | | | | | | |
|------------------------------------|---|----|-----|-----|-----|-----|------|-----|----|------|
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | 2.7 | 2.1 | 1.6 | 1.3 | 0.19 | 8.2 | 15 | 6.84 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | 3.5 | 3.1 | 2.3 | 2.5 | 0.34 | 9.2 | 16 | 6.8 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | 4.8 | 5.0 | | | 0.19 | 8.1 | 16 | 7.87 |
| HE40 STBC, M0 to M9 2ss | 3 | 9 | 4.1 | 4.4 | 3.6 | | 0.19 | 9.0 | 14 | 5.02 |
| HE40 STBC, M0 to M9 2ss | 4 | 10 | 3.5 | 3.1 | 2.3 | 2.5 | 0.34 | 9.2 | 13 | 3.8 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|-------------------------------------|----------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|------------------------|--------------------|----------------|
| Non HT80, 6 to 54 Mbps | 1 | 7 | 3.0 | | | | 0.36 | 3.4 | 16 | 12.61 |
| Non HT80, 6 to 54 Mbps | 2 | 10 | -0.7 | -0.4 | | | 0.36 | 2.8 | 13 | 10.18 |
| Non HT80, 6 to 54 Mbps | 3 | 12 | -1.6 | -1.1 | -1.7 | | 0.36 | 3.7 | 11 | 7.34 |
| Non HT80, 6 to 54 Mbps | 4 | 13 | -2.7 | -2.4 | -2.7 | -2.3 | 0.36 | 3.9 | 10 | 6.12 |
| VHT80, M0 to M9 1ss | 1 | 7 | 3.2 | | | | 0.46 | 3.6 | 16 | 12.39 |
| VHT80, M0 to M9 1ss | 2 | 10 | 0.2 | 0.3 | | | 0.46 | 3.7 | 13 | 9.27 |
| VHT80, M0 to M9 2ss | 2 | 7 | 0.2 | 0.3 | | | 0.46 | 3.7 | 16 | 12.27 |
| VHT80, M0 to M9 1ss | 3 | 12 | 0.2 | 0.3 | | | 0.46 | 5.4 | 11 | 5.6 |
| VHT80, M0 to M9 2ss | 3 | 9 | 0.2 | 0.3 | | | 0.46 | 5.4 | 14 | 8.6 |
| VHT80, M0 to M9 3ss | 3 | 7 | 0.2 | 0.3 | | | 0.46 | 5.4 | 16 | 10.6 |
| VHT80, M0 to M9 1ss | 4 | 13 | -0.7 | -0.6 | -0.9 | -1.1 | 0.46 | 5.7 | 10 | 4.32 |
| VHT80, M0 to M9 2ss | 4 | 10 | -0.7 | -0.6 | -0.9 | -1.1 | 0.46 | 5.7 | 13 | 7.32 |
| VHT80, M0 to M9 3ss | 4 | 8 | -0.7 | -0.6 | -0.9 | -1.1 | 0.46 | 5.7 | 15 | 9.32 |
| VHT80, M0 to M9 4ss | 4 | 7 | -0.7 | -0.6 | -0.9 | -1.1 | 0.46 | 5.7 | 16 | 10.32 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | 10 | -1.8 | -1.3 | | | 0.46 | 1.9 | 13 | 11.07 |

| | | | | | | | | | | |
|-------------------------------------|---|----|------|------|------|------|------|------|----|-------|
| VHT80 Beam Forming, M0 to M9 2ss | 2 | 7 | 0.2 | 0.3 | | | 0.46 | 3.7 | 16 | 12.27 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | 12 | -4.6 | -4.7 | -5.0 | | 0.46 | 0.5 | 11 | 10.51 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | 9 | -1.8 | -1.3 | -1.8 | | 0.46 | 3.6 | 14 | 10.4 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | 7 | 0.2 | 0.3 | | | 0.46 | 5.4 | 16 | 10.6 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | 13 | -6.0 | -5.8 | -5.6 | -5.3 | 0.46 | 0.8 | 10 | 9.2 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | 10 | -4.6 | -4.7 | -5.0 | -5.2 | 0.46 | 1.6 | 13 | 11.38 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | 8 | -1.8 | -1.3 | -1.8 | -1.7 | 0.46 | 4.8 | 15 | 10.16 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | 7 | -0.7 | -0.6 | -0.9 | -1.1 | 0.46 | 5.7 | 16 | 10.32 |
| VHT80 STBC, M0 to M9 1ss | 2 | 7 | 0.2 | 0.3 | | | 0.46 | 3.7 | 16 | 12.27 |
| VHT80 STBC, M0 to M9 1ss | 3 | 7 | 0.2 | 0.3 | | | 0.46 | 5.4 | 16 | 10.6 |
| VHT80 STBC, M0 to M9 1ss | 4 | 7 | -0.7 | -0.6 | -0.9 | -1.1 | 0.46 | 5.7 | 16 | 10.32 |
| HE80, M0 to M9 1ss | 1 | 7 | 2.8 | | | | 0.19 | 2.9 | 16 | 13.06 |
| HE80, M0 to M9 1ss | 2 | 10 | 0.6 | 0.8 | | | 0.19 | 3.9 | 13 | 9.08 |
| HE80, M0 to M9 2ss | 2 | 7 | 0.6 | 0.8 | | | 0.19 | 3.9 | 16 | 12.08 |
| HE80, M0 to M9 1ss | 3 | 12 | 0.6 | 0.8 | 0.4 | | 0.19 | 5.6 | 11 | 5.41 |
| HE80, M0 to M9 2ss | 3 | 9 | 0.6 | 0.8 | 0.4 | | 0.19 | 5.6 | 14 | 8.41 |
| HE80, M0 to M9 3ss | 3 | 7 | 0.6 | 0.8 | 0.4 | | 0.19 | 5.6 | 16 | 10.41 |
| HE80, M0 to M9 1ss | 4 | 13 | -1.2 | -1.2 | -1.5 | -1.2 | 0.19 | 5.0 | 10 | 5.05 |
| HE80, M0 to M9 2ss | 4 | 10 | -1.2 | -1.2 | -1.5 | -1.2 | 0.19 | 5.0 | 13 | 8.05 |
| HE80, M0 to M9 3ss | 4 | 8 | -1.2 | -1.2 | -1.5 | -1.2 | 0.19 | 5.0 | 15 | 10.05 |
| HE80, M0 to M9 4ss | 4 | 7 | -1.2 | -1.2 | -1.5 | -1.2 | 0.19 | 5.0 | 16 | 11.05 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | 10 | -1.2 | -1.2 | | | 0.19 | 2.0 | 13 | 10.96 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | 7 | 0.6 | 0.8 | | | 0.19 | 3.9 | 16 | 12.08 |
| HE80 Beam Forming, M0 to M9 1ss | 3 | 12 | -5.3 | -5.3 | -5.2 | | 0.19 | -0.3 | 11 | 11.3 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | 9 | -1.2 | -1.2 | -1.5 | | 0.19 | 3.7 | 14 | 10.3 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | 7 | 0.6 | 0.8 | 0.4 | | 0.19 | 5.6 | 16 | 10.41 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | 13 | -6.2 | -6.4 | -6.0 | -6.4 | 0.19 | -0.1 | 10 | 10.05 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | 10 | -4.1 | -4.4 | -4.2 | -4.5 | 0.19 | 1.9 | 13 | 11.09 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | 8 | -2.3 | -2.1 | -2.4 | -2.3 | 0.19 | 3.9 | 15 | 11.06 |

| | | | | | | | | | | |
|------------------------------------|---|---|------|------|------|------|------|-----|----|-------|
| HE80 Beam Forming, M0 to M9 4ss | 4 | 7 | -1.2 | -1.2 | -1.5 | -1.2 | 0.19 | 5.0 | 16 | 11.05 |
| HE80 STBC, M0 to M9 1ss | 2 | 7 | 0.6 | 0.8 | | | 0.19 | 3.9 | 16 | 12.08 |
| HE80 STBC, M0 to M9 1ss | 3 | 7 | 0.6 | 0.8 | 0.4 | | 0.19 | 5.6 | 16 | 10.41 |
| HE80 STBC, M0 to M9 1ss | 4 | 7 | -1.2 | -1.2 | -1.5 | -1.2 | 0.19 | 5.0 | 16 | 11.05 |

Frequency 5220 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|--|----------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|------------------------|--------------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | 12.1 | | | | 0.35 | 12.5 | 16 | 3.53 |
| Non HT20, 6 to 54 Mbps | 2 | 10 | 9.5 | 9.4 | | | 0.35 | 12.8 | 13 | 0.19 |
| Non HT20, 6 to 54 Mbps | 3 | 12 | 5.7 | 5.8 | 6.0 | | 0.35 | 10.9 | 11 | 0.06 |
| Non HT20, 6 to 54 Mbps | 4 | 13 | 2.9 | 2.9 | 3.0 | 3.0 | 0.35 | 9.3 | 10 | 0.68 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | 9.5 | 9.4 | | | 0.35 | 12.8 | 13 | 0.19 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | 5.7 | 5.8 | 6.0 | | 0.35 | 10.9 | 11 | 0.06 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | 2.9 | 2.9 | 3.0 | 3.0 | 0.35 | 9.3 | 10 | 0.68 |
| HT/VHT20, M0 to M7 | 1 | 7 | 11.9 | | | | 0.24 | 12.1 | 16 | 3.87 |
| HT/VHT20, M0 to M7 | 2 | 10 | 9.1 | 9.2 | | | 0.24 | 12.4 | 13 | 0.59 |
| HT/VHT20, M8 to M15 | 2 | 7 | 11.9 | 12.3 | | | 0.24 | 15.3 | 16 | 0.67 |
| HT/VHT20, M0 to M7 | 3 | 12 | 5.5 | 5.6 | 5.5 | | 0.24 | 10.5 | 11 | 0.45 |
| HT/VHT20, M8 to M15 | 3 | 9 | 8.3 | 8.4 | 8.3 | | 0.24 | 13.3 | 14 | 0.68 |
| HT/VHT20, M16 to M23 | 3 | 7 | 10.3 | 10.0 | 10.2 | | 0.24 | 15.2 | 16 | 0.84 |
| HT/VHT20, M0 to M7 | 4 | 13 | 2.5 | 2.5 | 2.8 | 3.1 | 0.24 | 9.0 | 10 | 1.01 |

| | | | | | | | | | | |
|-----------------------------------|---|----|------|------|------|------|------|------|----|------|
| HT/VHT20, M8 to M15 | 4 | 10 | 6.6 | 6.7 | 6.4 | 7.0 | 0.24 | 13.0 | 13 | 0.03 |
| HT/VHT20, M16 to M23 | 4 | 8 | 8.3 | 8.4 | 8.3 | 8.8 | 0.24 | 14.7 | 15 | 0.31 |
| HT/VHT20, M24 to M31 | 4 | 7 | 9.1 | 9.2 | 9.4 | 10.2 | 0.24 | 15.8 | 16 | 0.22 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | 9.1 | 9.2 | | | 0.24 | 12.4 | 13 | 0.59 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | 11.9 | 12.3 | | | 0.24 | 15.3 | 16 | 0.67 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | 5.5 | 5.6 | 5.5 | | 0.24 | 10.5 | 11 | 0.45 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | 8.3 | 8.4 | 8.3 | | 0.24 | 13.3 | 14 | 0.68 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | 10.3 | 10.0 | 10.2 | | 0.24 | 15.2 | 16 | 0.84 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | 2.5 | 2.5 | 2.8 | 3.1 | 0.24 | 9.0 | 10 | 1.01 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | 6.6 | 6.7 | 6.4 | 7.0 | 0.24 | 13.0 | 13 | 0.03 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | 8.3 | 8.4 | 8.3 | 8.8 | 0.24 | 14.7 | 15 | 0.31 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | 9.1 | 9.2 | 9.4 | 10.2 | 0.24 | 15.8 | 16 | 0.22 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | 11.9 | 12.3 | | | 0.24 | 15.3 | 16 | 0.67 |
| HT/VHT20 STBC, M0 to M7 | 3 | 9 | 8.3 | 8.4 | 8.3 | | 0.24 | 13.3 | 14 | 0.68 |
| HT/VHT20 STBC, M0 to M7 | 4 | 10 | 6.6 | 6.7 | 6.4 | 7.0 | 0.24 | 13.0 | 13 | 0.03 |
| HE20, M0 to M9 1ss | 1 | 7 | 12.3 | | | | 0.19 | 12.4 | 16 | 3.56 |
| HE20, M0 to M9 1ss | 2 | 10 | 9.3 | 9.7 | | | 0.19 | 12.7 | 13 | 0.32 |
| HE20, M0 to M9 2ss | 2 | 7 | 12.3 | 12.4 | | | 0.19 | 15.5 | 16 | 0.46 |
| HE20, M0 to M9 1ss | 3 | 12 | 5.8 | 5.6 | 6.0 | | 0.19 | 10.8 | 11 | 0.24 |
| HE20, M0 to M9 2ss | 3 | 9 | 8.2 | 8.6 | 8.6 | | 0.19 | 13.4 | 14 | 0.59 |
| HE20, M0 to M9 3ss | 3 | 7 | 10.2 | 10.7 | 10.4 | | 0.19 | 15.4 | 16 | 0.61 |
| HE20, M0 to M9 1ss | 4 | 13 | 3.9 | 3.6 | 3.8 | 3.8 | 0.19 | 10.0 | 10 | 0.03 |
| HE20, M0 to M9 2ss | 4 | 10 | 6.5 | 6.6 | 6.4 | 6.7 | 0.19 | 12.7 | 13 | 0.26 |
| HE20, M0 to M9 3ss | 4 | 8 | 8.2 | 8.6 | 8.6 | 8.6 | 0.19 | 14.7 | 15 | 0.29 |
| HE20, M0 to M9 4ss | 4 | 7 | 9.3 | 9.7 | 9.2 | 10.0 | 0.19 | 15.8 | 16 | 0.23 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | 9.3 | 9.7 | | | 0.19 | 12.7 | 13 | 0.32 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | 12.3 | 12.4 | | | 0.19 | 15.5 | 16 | 0.46 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | 5.8 | 5.6 | 6.0 | | 0.19 | 10.8 | 11 | 0.24 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | 8.2 | 8.6 | 8.6 | | 0.19 | 13.4 | 14 | 0.59 |

| | | | | | | | | | | |
|------------------------------------|---|----|------|------|------|------|------|------|----|------|
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | 10.2 | 10.7 | 10.4 | | 0.19 | 15.4 | 16 | 0.61 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | 3.9 | 3.6 | 3.8 | 3.8 | 0.19 | 10.0 | 10 | 0.03 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | 6.5 | 6.6 | 6.4 | 6.7 | 0.19 | 12.7 | 13 | 0.26 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | 8.2 | 8.6 | 8.6 | 8.6 | 0.19 | 14.7 | 15 | 0.29 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | 9.3 | 9.7 | 9.2 | 10.0 | 0.19 | 15.8 | 16 | 0.23 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | 12.3 | 12.4 | | | 0.19 | 15.5 | 16 | 0.46 |
| HE20 STBC, M0 to M9 2ss | 3 | 9 | 8.2 | 8.6 | 8.6 | | 0.19 | 13.4 | 14 | 0.59 |
| HE20 STBC, M0 to M9 2ss | 4 | 10 | 6.5 | 6.6 | 6.4 | 6.7 | 0.19 | 12.7 | 13 | 0.26 |

Frequency 5230 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|---------------------------|----------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|------------------------|--------------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | 8.9 | | | | 0.36 | 9.2 | 16 | 6.78 |
| Non HT40, 6 to 54 Mbps | 2 | 10 | 8.9 | 9.3 | | | 0.36 | 12.4 | 13 | 0.57 |
| Non HT40, 6 to 54 Mbps | 3 | 12 | 4.5 | 5.1 | 4.6 | | 0.36 | 9.9 | 11 | 1.12 |
| Non HT40, 6 to 54 Mbps | 4 | 13 | 3.2 | 3.5 | 3.0 | 3.1 | 0.36 | 9.6 | 10 | 0.41 |
| HT/VHT40, M0 to M7 | 1 | 7 | 8.6 | | | | 0.28 | 8.9 | 16 | 7.11 |
| HT/VHT40, M0 to M7 | 2 | 10 | 8.6 | 8.8 | | | 0.28 | 12.0 | 13 | 1.01 |
| HT/VHT40, M8 to M15 | 2 | 7 | 8.6 | 8.8 | | | 0.28 | 12.0 | 16 | 4.01 |
| HT/VHT40, M0 to M7 | 3 | 12 | 5.1 | 5.1 | 3.5 | | 0.28 | 9.7 | 11 | 1.32 |
| HT/VHT40, M8 to M15 | 3 | 9 | 8.6 | 8.8 | 9.0 | | 0.28 | 13.8 | 14 | 0.15 |

| | | | | | | | | | | |
|-----------------------------------|---|----|-----|-----|-----|-----|------|------|----|------|
| HT/VHT40, M16 to M23 | 3 | 7 | 8.6 | 8.8 | 9.0 | | 0.28 | 13.8 | 16 | 2.15 |
| HT/VHT40, M0 to M7 | 4 | 13 | 3.1 | 2.8 | 3.2 | 3.9 | 0.28 | 9.5 | 10 | 0.45 |
| HT/VHT40, M8 to M15 | 4 | 10 | 5.9 | 6.4 | 5.9 | 7.0 | 0.28 | 12.6 | 13 | 0.39 |
| HT/VHT40, M16 to M23 | 4 | 8 | 6.7 | 7.0 | 7.1 | 7.5 | 0.28 | 13.4 | 15 | 1.6 |
| HT/VHT40, M24 to M31 | 4 | 7 | 6.7 | 7.0 | 7.1 | 7.5 | 0.28 | 13.4 | 16 | 2.6 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | 8.0 | 8.0 | | | 0.28 | 11.3 | 13 | 1.7 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | 8.6 | 8.8 | | | 0.28 | 12.0 | 16 | 4.01 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | 4.1 | 4.3 | 4.2 | | 0.28 | 9.2 | 11 | 1.75 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | 6.7 | 7.0 | 7.1 | | 0.28 | 12.0 | 14 | 2.0 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | 8.6 | 8.8 | 9.0 | | 0.28 | 13.8 | 16 | 2.15 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | 1.1 | 1.4 | 1.6 | 2.4 | 0.28 | 8.0 | 10 | 2.03 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | 5.1 | 5.1 | 3.5 | 5.7 | 0.28 | 11.2 | 13 | 1.77 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | 5.9 | 6.4 | 5.9 | 7.0 | 0.28 | 12.6 | 15 | 2.39 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | 6.7 | 7.0 | 7.1 | 7.5 | 0.28 | 13.4 | 16 | 2.6 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | 8.6 | 8.8 | | | 0.28 | 12.0 | 16 | 4.01 |
| HT/VHT40 STBC, M0 to M7 | 3 | 9 | 8.6 | 8.8 | 9.0 | | 0.28 | 13.8 | 14 | 0.15 |
| HT/VHT40 STBC, M0 to M7 | 4 | 10 | 5.9 | 6.4 | 5.9 | 7.0 | 0.28 | 12.6 | 13 | 0.39 |
| HE40, M0 to M9 1ss | 1 | 7 | 8.8 | | | | 0.19 | 9.0 | 16 | 7.01 |
| HE40, M0 to M9 1ss | 2 | 10 | 8.8 | 9.4 | | | 0.19 | 12.3 | 13 | 0.7 |
| HE40, M0 to M9 2ss | 2 | 7 | 8.8 | 9.4 | | | 0.19 | 12.3 | 16 | 3.7 |
| HE40, M0 to M9 1ss | 3 | 12 | 5.3 | 5.5 | 5.3 | | 0.19 | 10.3 | 11 | 0.68 |
| HE40, M0 to M9 2ss | 3 | 9 | 8.0 | 8.2 | 8.3 | | 0.19 | 13.1 | 14 | 0.86 |
| HE40, M0 to M9 3ss | 3 | 7 | 8.8 | 9.4 | 9.1 | | 0.19 | 14.1 | 16 | 1.93 |
| HE40, M0 to M9 1ss | 4 | 13 | 3.5 | 3.6 | 3.4 | 4.1 | 0.19 | 9.8 | 10 | 0.17 |
| HE40, M0 to M9 2ss | 4 | 10 | 6.7 | 6.5 | 6.5 | 7.2 | 0.19 | 13.0 | 13 | 0.05 |
| HE40, M0 to M9 3ss | 4 | 8 | 7.2 | 7.4 | 7.4 | 7.9 | 0.19 | 13.7 | 15 | 1.31 |
| HE40, M0 to M9 4ss | 4 | 7 | 7.2 | 7.4 | 7.4 | 7.9 | 0.19 | 13.7 | 16 | 2.31 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | 7.2 | 7.4 | | | 0.19 | 10.5 | 13 | 2.5 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | 8.8 | 9.4 | | | 0.19 | 12.3 | 16 | 3.7 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | 3.5 | 3.6 | 3.4 | | 0.19 | 8.4 | 11 | 2.58 |

| | | | | | | | | | | |
|------------------------------------|---|----|-----|-----|-----|-----|------|------|----|------|
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | 6.7 | 6.5 | 6.5 | | 0.19 | 11.5 | 14 | 2.48 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | 8.8 | 9.4 | 9.1 | | 0.19 | 14.1 | 16 | 1.93 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | 1.2 | 1.7 | 1.6 | 2.2 | 0.19 | 7.9 | 10 | 2.09 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | 4.2 | 4.4 | 4.4 | 4.9 | 0.19 | 10.7 | 13 | 2.31 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | 6.7 | 6.5 | 6.5 | 7.2 | 0.19 | 13.0 | 15 | 2.05 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | 7.2 | 7.4 | 7.4 | 7.9 | 0.19 | 13.7 | 16 | 2.31 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | 8.8 | 9.4 | | | 0.19 | 12.3 | 16 | 3.7 |
| HE40 STBC, M0 to M9 2ss | 3 | 9 | 8.0 | 8.2 | 8.3 | | 0.19 | 13.1 | 14 | 0.86 |
| HE40 STBC, M0 to M9 2ss | 4 | 10 | 6.7 | 6.5 | 6.5 | 7.2 | 0.19 | 13.0 | 13 | 0.05 |

Frequency 5240 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|--|----------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|------------------------|--------------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | 11.7 | | | | 0.35 | 12.0 | 16 | 3.97 |
| Non HT20, 6 to 54 Mbps | 2 | 10 | 8.7 | 9.4 | | | 0.35 | 12.4 | 13 | 0.56 |
| Non HT20, 6 to 54 Mbps | 3 | 12 | 5.0 | 5.5 | 5.2 | | 0.35 | 10.4 | 11 | 0.64 |
| Non HT20, 6 to 54 Mbps | 4 | 13 | 2.3 | 2.4 | 2.4 | 3.1 | 0.35 | 9.0 | 10 | 1.05 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | 8.7 | 9.4 | | | 0.35 | 12.4 | 13 | 0.56 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | 5.0 | 5.5 | 5.2 | | 0.35 | 10.4 | 11 | 0.64 |

| | | | | | | | | | | |
|-------------------------------------|----------|----------|------------|------------|------------|-----|-------------|-------------|-----------|-------------|
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | 2.3 | 2.4 | 2.4 | 3.1 | 0.35 | 9.0 | 10 | 1.05 |
| HT/VHT20, M0 to M7 | 1 | 7 | 11.5 | | | | 0.24 | 11.8 | 16 | 4.22 |
| HT/VHT20, M0 to M7 | 2 | 10 | 8.9 | 9.0 | | | 0.24 | 12.2 | 13 | 0.77 |
| HT/VHT20, M8 to M15 | 2 | 7 | 11.5 | 12.1 | | | 0.24 | 15.1 | 16 | 0.94 |
| HT/VHT20, M0 to M7 | 3 | 12 | 4.7 | 5.1 | 5.0 | | 0.24 | 10.0 | 11 | 1.05 |
| HT/VHT20, M8 to M15 | 3 | 9 | 8.9 | 9.0 | 8.8 | | 0.24 | 13.9 | 14 | 0.08 |
| HT/VHT20, M16 to M23 | 3 | 7 | 10.4 | 11.1 | 10.7 | | 0.24 | 15.8 | 16 | 0.25 |
| HT/VHT20, M0 to M7 | 4 | 13 | 2.9 | 3.4 | 3.1 | 3.8 | 0.24 | 9.6 | 10 | 0.44 |
| HT/VHT20, M8 to M15 | 4 | 10 | 6.2 | 6.3 | 5.8 | 6.8 | 0.24 | 12.6 | 13 | 0.42 |
| HT/VHT20, M16 to M23 | 4 | 8 | 8.2 | 8.4 | 7.6 | 8.3 | 0.24 | 14.4 | 15 | 0.59 |
| HT/VHT20, M24 to M31 | 4 | 7 | 8.9 | 9.0 | 8.8 | 9.4 | 0.24 | 15.3 | 16 | 0.71 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | 8.9 | 9.0 | | | 0.24 | 12.2 | 13 | 0.77 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | 11.5 | 12.1 | | | 0.24 | 15.1 | 16 | 0.94 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | 4.7 | 5.1 | 5.0 | | 0.24 | 10.0 | 11 | 1.05 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | 8.9 | 9.0 | 8.8 | | 0.24 | 13.9 | 14 | 0.08 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | 10.4 | 11.1 | 10.7 | | 0.24 | 15.8 | 16 | 0.25 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | 2.9 | 3.4 | 3.1 | 3.8 | 0.24 | 9.6 | 10 | 0.44 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | 6.2 | 6.3 | 5.8 | 6.8 | 0.24 | 12.6 | 13 | 0.42 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | 8.2 | 8.4 | 7.6 | 8.3 | 0.24 | 14.4 | 15 | 0.59 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | 8.9 | 9.0 | 8.8 | 9.4 | 0.24 | 15.3 | 16 | 0.71 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | 11.5 | 12.1 | | | 0.24 | 15.1 | 16 | 0.94 |
| HT/VHT20 STBC, M0 to M7 | 3 | 9 | 8.9 | 9.0 | 8.8 | | 0.24 | 13.9 | 14 | 0.08 |
| HT/VHT20 STBC, M0 to M7 | 4 | 10 | 6.2 | 6.3 | 5.8 | 6.8 | 0.24 | 12.6 | 13 | 0.42 |
| HE20, M0 to M9 1ss | 1 | 7 | 11.5 | | | | 0.19 | 11.6 | 16 | 4.36 |
| HE20, M0 to M9 1ss | 2 | 10 | 8.7 | 9.4 | | | 0.19 | 12.3 | 13 | 0.72 |
| HE20, M0 to M9 2ss | 2 | 7 | 11.5 | 12.1 | | | 0.19 | 15.0 | 16 | 1.04 |
| HE20, M0 to M9 1ss | 3 | 12 | 5.0 | 5.7 | 5.4 | | 0.19 | 10.3 | 11 | 0.69 |
| HE20, M0 to M9 2ss | 3 | 9 | 8.7 | 9.4 | 8.9 | | 0.19 | 14.0 | 14 | 0.03 |
| HE20, M0 to M9 3ss | 3 | 7 | 10.6 | 11.3 | 10.5 | | 0.19 | 15.8 | 16 | 0.23 |
| HE20, M0 to M9 1ss | 4 | 13 | 3.2 | 3.4 | 3.5 | 4.2 | 0.19 | 9.8 | 10 | 0.22 |
| HE20, M0 to M9 2ss | 4 | 10 | 6.1 | 6.2 | 6.2 | 7.2 | 0.19 | 12.7 | 13 | 0.34 |
| HE20, M0 to M9 3ss | 4 | 8 | 7.8 | 8.3 | 7.9 | 8.7 | 0.19 | 14.4 | 15 | 0.61 |

| | | | | | | | | | | |
|--|----------|----------|------------|------------|------------|-----|-------------|-------------|-----------|-------------|
| HE20, M0 to M9 4ss | 4 | 7 | 8.7 | 9.4 | 8.9 | 9.7 | 0.19 | 15.4 | 16 | 0.6 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | 8.7 | 9.4 | | | 0.19 | 12.3 | 13 | 0.72 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | 11.5 | 12.1 | | | 0.19 | 15.0 | 16 | 1.04 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | 5.0 | 5.7 | 5.4 | | 0.19 | 10.3 | 11 | 0.69 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | 8.7 | 9.4 | 8.9 | | 0.19 | 14.0 | 14 | 0.03 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | 10.6 | 11.3 | 10.5 | | 0.19 | 15.8 | 16 | 0.23 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | 3.2 | 3.4 | 3.5 | 4.2 | 0.19 | 9.8 | 10 | 0.22 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | 6.1 | 6.2 | 6.2 | 7.2 | 0.19 | 12.7 | 13 | 0.34 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | 7.8 | 8.3 | 7.9 | 8.7 | 0.19 | 14.4 | 15 | 0.61 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | 8.7 | 9.4 | 8.9 | 9.7 | 0.19 | 15.4 | 16 | 0.6 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | 11.5 | 12.1 | | | 0.19 | 15.0 | 16 | 1.04 |
| HE20 STBC, M0 to M9 2ss | 3 | 9 | 8.7 | 9.4 | 8.9 | | 0.19 | 14.0 | 14 | 0.03 |
| HE20 STBC, M0 to M9 2ss | 4 | 10 | 6.1 | 6.2 | 6.2 | 7.2 | 0.19 | 12.7 | 13 | 0.34 |

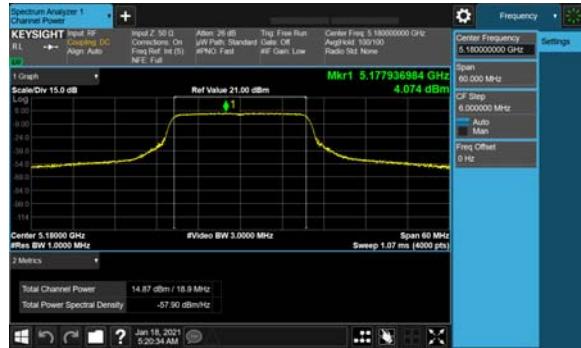
Frequency 5250 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Duty Cycle (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------------|----------------------------|-----------------|---------------------|-----------------|-------------|
| Non HT80+80, 6 to 54 Mbps | 1 | 7 | 0.4 | | 0.4 | 7.8 | 16 | 8.22 |
| Non HT80+80, 6 to 54 Mbps | 2 | 10 | -1.1 | -2.4 | 0.4 | 1.7 | 13 | 11.26 |
| VHT80+80, M0 to M9 1ss | 1 | 7 | 1.3 | | 0.5 | 8.8 | 16 | 7.2 |
| VHT80+80, M0 to M9 1ss | 2 | 10 | -0.8 | -1.5 | 0.5 | 2.3 | 13 | 10.65 |
| VHT80+80, M0 to M9 2ss | 2 | 7 | -0.8 | -1.5 | 0.5 | 2.3 | 16 | 13.65 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -3.8 | -4.7 | 0.5 | -0.7 | 13 | 13.7 |

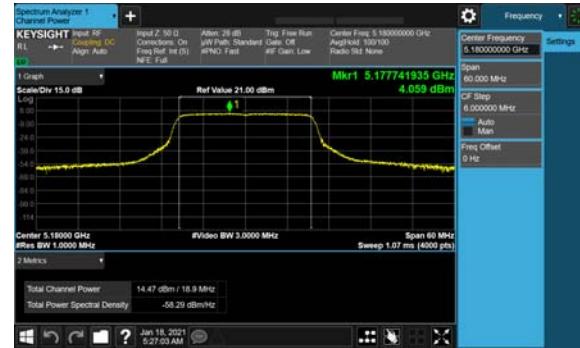
| | | | | | | | | |
|-------------------------------------|---|----|------|------|-----|------|----|-------|
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -0.8 | -1.5 | 0.5 | 2.3 | 16 | 13.65 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | 7 | -0.8 | -1.5 | 0.5 | 2.3 | 16 | 13.65 |
| HE80+80, M0 to M9 1ss | 1 | 7 | 0.4 | | 0.3 | 7.7 | 16 | 8.32 |
| HE80+80, M0 to M9 1ss | 2 | 10 | -0.6 | -1.5 | 0.3 | 2.3 | 13 | 10.69 |
| HE80+80, M0 to M9 2ss | 2 | 7 | -0.6 | -1.5 | 0.3 | 2.3 | 16 | 13.69 |
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -4.8 | -5.3 | 0.3 | -1.8 | 13 | 14.76 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -0.6 | -1.5 | 0.3 | 2.3 | 16 | 13.69 |
| HE80+80 STBC, M0 to M9 1ss | 2 | 7 | -0.6 | -1.5 | 0.3 | 2.3 | 16 | 13.69 |

Data Screenshots

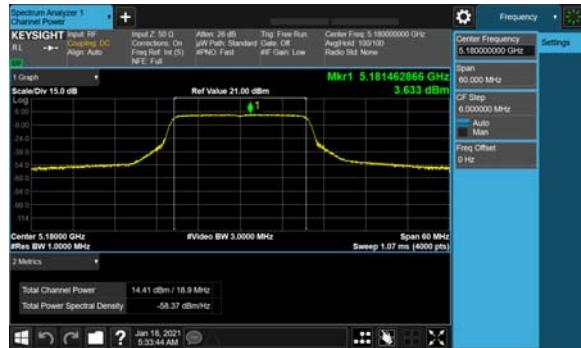
5180 MHz: HE20, M0 to M9 1ss



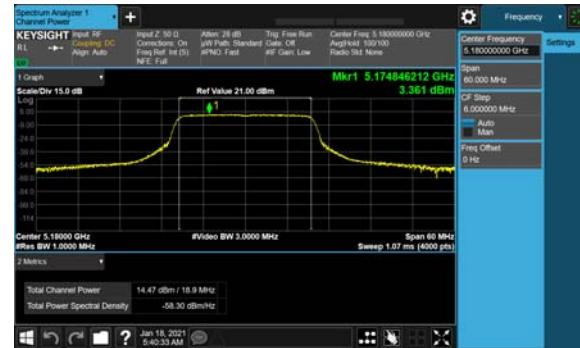
Antenna A



Antenna B



Antenna C



Antenna D

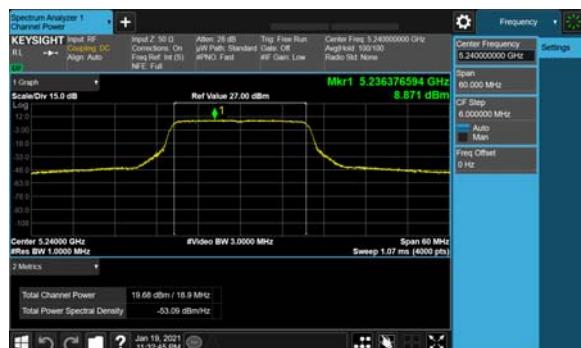
5240 MHz: HE20, M0 to M9 2ss



Antenna A



Antenna B

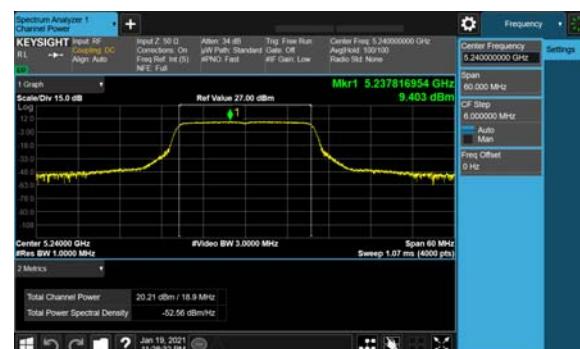


Antenna C

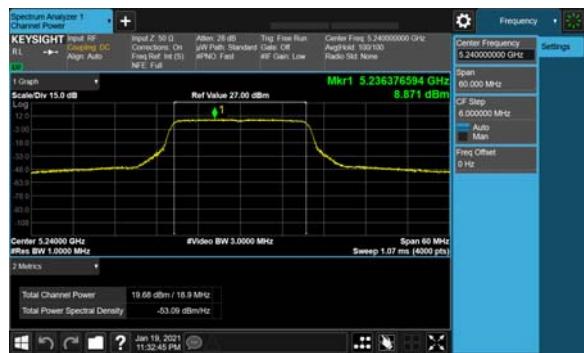
5240 MHz: HE20 Beam Forming, M0 to M9 2ss



Antenna A



Antenna B



Antenna C

A.5 Conducted Spurious Emissions

Conducted Spurious Emissions Test Requirement

15.407(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Use formula below to substitute conducted measurements in place of radiated measurements

$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77, \text{ where } E = \text{field strength and } d = 3 \text{ meter}$$

- 1) Average Plot, Limit= -41.25 dBm eirp
- 2) Peak plot, Limit = -21.25 dBm eirp

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

2. Unwanted Emissions that fall Outside of the Restricted Bands

- a) For all measurements, follow the requirements in II.G.3. “*General Requirements for Unwanted Emissions Measurements.*”
- b) At frequencies below 1000 MHz, use the procedure described in II.G.4. “*Procedure for Unwanted Emissions Measurements Below 1000 MHz.*”
- c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in II.G.5., “*Procedure for Unwanted Emissions Measurements Above 1000 MHz.*”
- (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³

Conducted Spurious Emissions Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Ref. ANSI C63.10: 2013

| Conducted Spurious Emissions Test Procedure |
|--|
| <ol style="list-style-type: none">1. Connect the antenna port(s) to the spectrum analyzer input.2. Place the radio in continuous transmit mode3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).4. Use the peak marker function to determine the maximum spurs amplitude level.5. The “measure-and-sum technique” is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total |

emission level from the device. Summing is performed in linear power units. The worst case output is recorded. (see ANSI C63.10:2013 section 14.3.2.2)

6. Capture graphs and record pertinent measurement data.

Ref. ANSI C63.10: 2013 section 12.7.6 (Peak) and 12.7.7.2 (Average)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Sec. 5 (Peak), Sec. 6 (Average Method AD)

Conducted Spurious Emissions

Test parameters

Peak

RBW = 1 MHz

VBW \geq 3 MHz

Sweep = Auto

Detector = Peak

Trace = Max Hold.

Average

RBW = 1 MHz

VBW \geq 3 MHz

Sweep = Auto

Detector = RMS

Power Averaging

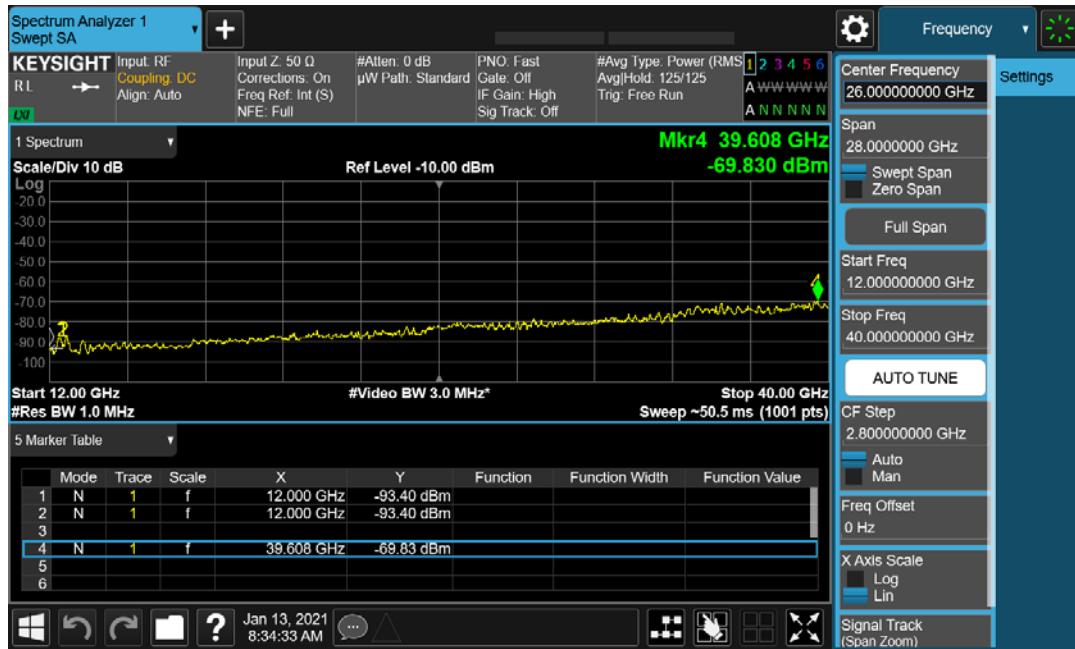
Add the max antenna gain + ground reflection factor (4.7 dB for frequencies between 30 MHz and 1000 MHz, and 0 dB for frequencies > 1000 MHz).

| | |
|---|--|
| Tested By : Said Abdelwafi, Julian Land | Date of testing: 12-JAN-2021 through 19-JAN-2021 08-MAR-2021 through 12-MAR-2021 08-APR-2021 through 09-APR-2021 |
| Test Result : PASS | |

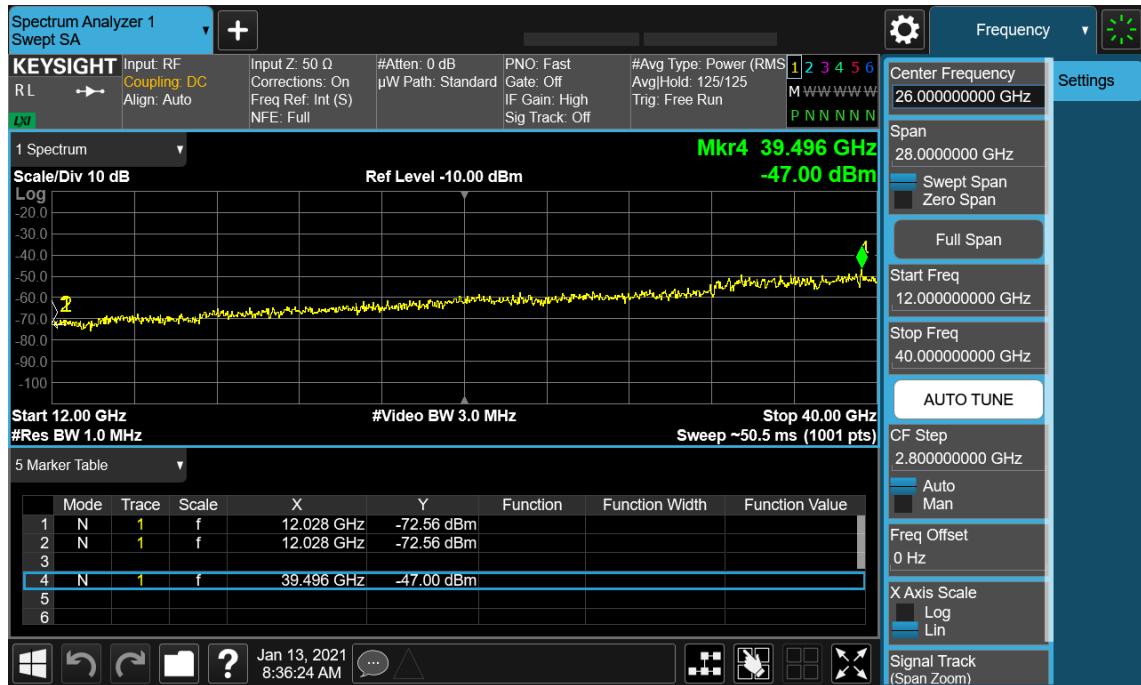
Test Equipment

See Appendix C for list of test equipment

Conducted Spurs Average Upper



Conducted Spurs Peak Upper



Conducted Spurs Average

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|----------------------------|------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -57.0 | | | 0.35 | -49.7 | -41 | 8.44 | |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -60.4 | -62.4 | | 0.35 | -50.9 | -41 | 9.69 | |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -59.9 | -62.4 | -63.0 | 0.35 | -49.4 | -41 | 8.17 | |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -64.1 | -66.1 | -66.6 | -63.7 | 0.35 | -51.6 | -41 | 10.31 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -60.4 | -62.4 | | 0.35 | -47.9 | -41 | 6.69 | |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -59.9 | -62.4 | -63.0 | 0.35 | -44.4 | -41 | 3.17 | |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -64.1 | -66.1 | -66.6 | -63.7 | 0.35 | -45.6 | -41 | 4.31 |
| HT/VHT20, M0 to M7 | 1 | 7 | -57.1 | | | 0.24 | -49.9 | -41 | 8.62 | |
| HT/VHT20, M0 to M7 | 2 | 7 | -57.3 | -58.6 | | 0.24 | -47.7 | -41 | 6.45 | |
| HT/VHT20, M8 to M15 | 2 | 7 | -57.7 | -58.5 | | 0.24 | -47.8 | -41 | 6.58 | |
| HT/VHT20, M0 to M7 | 3 | 7 | -60.1 | -62.5 | -62.6 | 0.19 | -49.6 | -41 | 8.39 | |
| HT/VHT20, M8 to M15 | 3 | 7 | -59.3 | -61.9 | -61.8 | 0.24 | -48.8 | -41 | 7.55 | |
| HT/VHT20, M16 to M23 | 3 | 7 | -59.3 | -61.9 | -61.8 | 0.24 | -48.8 | -41 | 7.55 | |
| HT/VHT20, M0 to M7 | 4 | 7 | -62.9 | -62.6 | -63.0 | -62.3 | 0.24 | -49.4 | -41 | 8.19 |
| HT/VHT20, M8 to M15 | 4 | 7 | -59.6 | -62.3 | -62.6 | -62.0 | 0.24 | -48.2 | -41 | 6.93 |
| HT/VHT20, M16 to M23 | 4 | 7 | -59.3 | -61.9 | -61.8 | -62.2 | 0.24 | -47.9 | -41 | 6.62 |
| HT/VHT20, M24 to M31 | 4 | 7 | -59.3 | -61.9 | -61.8 | -62.2 | 0.24 | -47.9 | -41 | 6.62 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -59.3 | -61.9 | | 0.24 | -47.2 | -41 | 5.91 | |

| | | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -57.7 | -58.5 | | | 0.24 | -47.8 | -41 | 6.58 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -60.1 | -62.5 | -62.6 | | 0.19 | -44.6 | -41 | 3.39 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -59.3 | -61.9 | -61.8 | | 0.24 | -46.8 | -41 | 5.55 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -59.3 | -61.9 | -61.8 | | 0.24 | -48.8 | -41 | 7.55 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -63.3 | -65.9 | -66.6 | -63.7 | 0.24 | -45.4 | -41 | 4.12 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -60.1 | -62.5 | -62.6 | -62.0 | 0.19 | -45.5 | -41 | 4.24 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -59.3 | -61.9 | -61.8 | -62.2 | 0.24 | -46.9 | -41 | 5.62 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -59.3 | -61.9 | -61.8 | -62.2 | 0.24 | -47.9 | -41 | 6.62 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -57.7 | -58.5 | | | 0.24 | -47.8 | -41 | 6.58 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -59.3 | -61.9 | -61.8 | | 0.24 | -48.8 | -41 | 7.55 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -59.6 | -62.3 | -62.6 | -62.0 | 0.24 | -48.2 | -41 | 6.93 |
| HE20, M0 to M9 1ss | 1 | 7 | -57.7 | | | | 0.19 | -50.5 | -41 | 9.26 |
| HE20, M0 to M9 1ss | 2 | 7 | -56.8 | -58.7 | | | 0.19 | -47.5 | -41 | 6.2 |
| HE20, M0 to M9 2ss | 2 | 7 | -57.7 | -58.6 | | | 0.19 | -47.9 | -41 | 6.66 |
| HE20, M0 to M9 1ss | 3 | 7 | -59.6 | -62.3 | -62.5 | | 0.19 | -49.3 | -41 | 8.05 |
| HE20, M0 to M9 2ss | 3 | 7 | -58.6 | -58.5 | -58.5 | | 0.19 | -46.6 | -41 | 5.32 |
| HE20, M0 to M9 3ss | 3 | 7 | -58.6 | -58.5 | -58.5 | | 0.19 | -46.6 | -41 | 5.32 |
| HE20, M0 to M9 1ss | 4 | 7 | -60.1 | -62.4 | -62.9 | -61.9 | 0.19 | -48.5 | -41 | 7.22 |
| HE20, M0 to M9 2ss | 4 | 7 | -59.5 | -62.5 | -62.1 | -61.8 | 0.19 | -48.1 | -41 | 6.88 |
| HE20, M0 to M9 3ss | 4 | 7 | -59.1 | -62.4 | -62.2 | -61.9 | 0.19 | -48.0 | -41 | 6.73 |
| HE20, M0 to M9 4ss | 4 | 7 | -59.1 | -62.4 | -62.2 | -61.9 | 0.19 | -48.0 | -41 | 6.73 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -59.1 | -62.4 | | | 0.19 | -47.3 | -41 | 6.01 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -57.7 | -58.6 | | | 0.19 | -47.9 | -41 | 6.66 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -60.1 | -62.4 | -62.9 | | 0.19 | -44.7 | -41 | 3.4 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -59.1 | -62.4 | -62.2 | | 0.19 | -47.0 | -41 | 5.76 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -58.6 | -58.5 | -58.5 | | 0.19 | -46.6 | -41 | 5.32 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -63.3 | -65.9 | -66.4 | -63.6 | 0.19 | -45.4 | -41 | 4.14 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -59.6 | -62.3 | -62.5 | -61.8 | 0.19 | -45.2 | -41 | 3.93 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -59.1 | -62.4 | -62.2 | -61.9 | 0.19 | -47.0 | -41 | 5.73 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|------|
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -59.1 | -62.4 | -62.2 | -61.9 | 0.19 | -48.0 | -41 | 6.73 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -57.7 | -58.6 | | | 0.19 | -47.9 | -41 | 6.66 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -58.6 | -58.5 | -58.5 | | 0.19 | -46.6 | -41 | 5.32 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -59.5 | -62.5 | -62.1 | -61.8 | 0.19 | -48.1 | -41 | 6.88 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|---------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | -59.6 | | | | 0.36 | -52.2 | -41 | 10.99 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | -59.6 | -60.8 | | | 0.36 | -49.8 | -41 | 8.54 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | -59.6 | -60.7 | -60.1 | | 0.36 | -48.0 | -41 | 6.73 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | -59.6 | -60.7 | -60.7 | -61.4 | 0.35 | -47.2 | -41 | 5.93 |
| HT/VHT40, M0 to M7 | 1 | 7 | -57.4 | | | | 0.28 | -50.2 | -41 | 8.91 |
| HT/VHT40, M0 to M7 | 2 | 7 | -57.4 | -57.4 | | | 0.28 | -47.1 | -41 | 5.87 |
| HT/VHT40, M8 to M15 | 2 | 7 | -57.4 | -57.4 | | | 0.28 | -47.1 | -41 | 5.87 |
| HT/VHT40, M0 to M7 | 3 | 7 | -60.1 | -61.5 | -61.5 | | 0.28 | -49.0 | -41 | 7.7 |
| HT/VHT40, M8 to M15 | 3 | 7 | -60.1 | -61.5 | -61.5 | | 0.28 | -49.0 | -41 | 7.7 |
| HT/VHT40, M16 to M23 | 3 | 7 | -60.1 | -61.5 | -61.5 | | 0.28 | -49.0 | -41 | 7.7 |
| HT/VHT40, M0 to M7 | 4 | 7 | -59.1 | -62.0 | -61.2 | -61.5 | 0.28 | -47.5 | -41 | 6.24 |
| HT/VHT40, M8 to M15 | 4 | 7 | -59.1 | -62.0 | -61.2 | -61.5 | 0.28 | -47.5 | -41 | 6.24 |
| HT/VHT40, M16 to M23 | 4 | 7 | -59.1 | -62.0 | -61.2 | -61.5 | 0.28 | -47.5 | -41 | 6.24 |
| HT/VHT40, M24 to M31 | 4 | 7 | -59.1 | -62.0 | -61.2 | -61.5 | 0.28 | -47.5 | -41 | 6.24 |

| | | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | -60.5 | -61.9 | | | 0.28 | -47.8 | -41 | 6.59 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | -57.4 | -57.4 | | | 0.28 | -47.1 | -41 | 5.87 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | -64.2 | -65.7 | -65.9 | | 0.28 | -48.1 | -41 | 6.89 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | -60.5 | -61.9 | -62.4 | | 0.28 | -47.5 | -41 | 6.22 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | -60.1 | -61.5 | -61.5 | | 0.28 | -49.0 | -41 | 7.7 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -64.0 | -65.9 | -66.0 | -63.7 | 0.28 | -45.5 | -41 | 4.23 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | -64.2 | -65.7 | -65.9 | -63.6 | 0.28 | -48.4 | -41 | 7.19 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | -60.5 | -61.9 | -62.4 | -61.9 | 0.28 | -47.3 | -41 | 6.07 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | -59.1 | -62.0 | -61.2 | -61.5 | 0.28 | -47.5 | -41 | 6.24 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | -57.4 | -57.4 | | | 0.28 | -47.1 | -41 | 5.87 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | -60.1 | -61.5 | -61.5 | | 0.28 | -49.0 | -41 | 7.7 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | -59.1 | -62.0 | -61.2 | -61.5 | 0.28 | -47.5 | -41 | 6.24 |
| HE40, M0 to M9 1ss | 1 | 7 | -57.5 | | | | 0.19 | -50.3 | -41 | 9.02 |
| HE40, M0 to M9 1ss | 2 | 7 | -59.6 | -60.8 | | | 0.19 | -49.9 | -41 | 8.67 |
| HE40, M0 to M9 2ss | 2 | 7 | -59.6 | -60.8 | | | 0.19 | -49.9 | -41 | 8.67 |
| HE40, M0 to M9 1ss | 3 | 7 | -59.8 | -61.0 | -61.2 | | 0.19 | -48.7 | -41 | 7.43 |
| HE40, M0 to M9 2ss | 3 | 7 | -59.8 | -61.0 | -61.2 | | 0.19 | -48.7 | -41 | 7.43 |
| HE40, M0 to M9 3ss | 3 | 7 | -59.8 | -61.0 | -61.2 | | 0.19 | -48.7 | -41 | 7.43 |
| HE40, M0 to M9 1ss | 4 | 7 | -59.9 | -61.3 | -61.4 | -61.7 | 0.34 | -47.6 | -41 | 6.38 |
| HE40, M0 to M9 2ss | 4 | 7 | -59.9 | -61.3 | -61.4 | -61.7 | 0.34 | -47.6 | -41 | 6.38 |
| HE40, M0 to M9 3ss | 4 | 7 | -59.9 | -61.3 | -61.4 | -61.7 | 0.34 | -47.6 | -41 | 6.38 |
| HE40, M0 to M9 4ss | 4 | 7 | -59.9 | -61.3 | -61.4 | -61.7 | 0.34 | -47.6 | -41 | 6.38 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | -59.9 | -61.3 | | | 0.19 | -47.3 | -41 | 6.09 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | -59.6 | -60.8 | | | 0.19 | -49.9 | -41 | 8.67 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -63.8 | -65.9 | -66.1 | | 0.19 | -48.2 | -41 | 6.91 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | -59.9 | -61.3 | -61.9 | | 0.19 | -47.0 | -41 | 5.73 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | -59.8 | -61.0 | -61.2 | | 0.19 | -48.7 | -41 | 7.43 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -63.5 | -65.6 | -66.1 | -63.0 | 0.19 | -45.1 | -41 | 3.89 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | -63.5 | -65.5 | -65.7 | -63.3 | 0.19 | -48.1 | -41 | 6.9 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|------|
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | -59.9 | -61.3 | -61.9 | -61.6 | 0.19 | -46.9 | -41 | 5.64 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | -59.9 | -61.3 | -61.4 | -61.7 | 0.34 | -47.6 | -41 | 6.38 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | -59.6 | -60.8 | | | 0.19 | -49.9 | -41 | 8.67 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | -59.8 | -61.0 | -61.2 | | 0.19 | -48.7 | -41 | 7.43 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | -59.9 | -61.3 | -61.4 | -61.7 | 0.34 | -47.6 | -41 | 6.38 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT80, 6 to 54 Mbps | 1 | 7 | -55.7 | | | | 0.36 | -48.3 | -41 | 7.09 |
| Non HT80, 6 to 54 Mbps | 2 | 7 | -58.4 | -59.9 | | | 0.36 | -48.7 | -41 | 7.47 |
| Non HT80, 6 to 54 Mbps | 3 | 7 | -58.6 | -60.3 | -61.2 | | 0.36 | -47.8 | -41 | 6.52 |
| Non HT80, 6 to 54 Mbps | 4 | 7 | -63.1 | -64.0 | -65.1 | -64.5 | 0.36 | -50.7 | -41 | 9.48 |
| VHT80, M0 to M9 1ss | 1 | 7 | -58.0 | | | | 0.46 | -50.5 | -41 | 9.27 |
| VHT80, M0 to M9 1ss | 2 | 7 | -61.8 | -61.9 | | | 0.46 | -51.4 | -41 | 10.14 |
| VHT80, M0 to M9 2ss | 2 | 7 | -61.8 | -61.9 | | | 0.46 | -51.4 | -41 | 10.14 |
| VHT80, M0 to M9 1ss | 3 | 7 | -61.8 | -61.9 | -63.0 | | 0.46 | -50.0 | -41 | 8.73 |
| VHT80, M0 to M9 2ss | 3 | 7 | -61.8 | -61.9 | -63.0 | | 0.46 | -50.0 | -41 | 8.73 |
| VHT80, M0 to M9 3ss | 3 | 7 | -61.8 | -61.9 | -63.0 | | 0.46 | -50.0 | -41 | 8.73 |
| VHT80, M0 to M9 1ss | 4 | 7 | -61.8 | -62.0 | -62.9 | -62.3 | 0.46 | -48.7 | -41 | 7.48 |
| VHT80, M0 to M9 2ss | 4 | 7 | -61.8 | -62.0 | -62.9 | -62.3 | 0.46 | -48.7 | -41 | 7.48 |
| VHT80, M0 to M9 3ss | 4 | 7 | -61.8 | -62.0 | -62.9 | -62.3 | 0.46 | -48.7 | -41 | 7.48 |
| VHT80, M0 to M9 4ss | 4 | 7 | -61.8 | -62.0 | -62.9 | -62.3 | 0.46 | -48.7 | -41 | 7.48 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | 10 | -61.7 | -61.6 | | | 0.46 | -48.2 | -41 | 6.94 |

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|-------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| VHT80 Beam Forming, M0 to M9 2ss | 2 | 7 | -61.8 | -61.9 | | | 0.46 | -51.4 | -41 | 10.14 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | 12 | -65.1 | -65.5 | -66.5 | | 0.46 | -48.4 | -41 | 7.19 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | 9 | -61.7 | -61.6 | -62.8 | | 0.46 | -47.8 | -41 | 6.54 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | 7 | -61.8 | -61.9 | -63.0 | | 0.46 | -50.0 | -41 | 8.73 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | 13 | -64.6 | -65.5 | -67.1 | -63.4 | 0.46 | -45.5 | -41 | 4.23 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | 10 | -65.1 | -65.5 | -66.5 | -63.3 | 0.46 | -48.5 | -41 | 7.2 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | 8 | -61.7 | -61.6 | -62.8 | -61.8 | 0.46 | -47.5 | -41 | 6.24 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | 7 | -61.8 | -62.0 | -62.9 | -62.3 | 0.46 | -48.7 | -41 | 7.48 |
| VHT80 STBC, M0 to M9 1ss | 2 | 7 | -61.8 | -61.9 | | | 0.46 | -51.4 | -41 | 10.14 |
| VHT80 STBC, M0 to M9 1ss | 3 | 7 | -61.8 | -61.9 | -63.0 | | 0.46 | -50.0 | -41 | 8.73 |
| VHT80 STBC, M0 to M9 1ss | 4 | 7 | -61.8 | -62.0 | -62.9 | -62.3 | 0.46 | -48.7 | -41 | 7.48 |
| HE80, M0 to M9 1ss | 1 | 7 | -58.3 | | | | 0.19 | -51.1 | -41 | 9.84 |
| HE80, M0 to M9 1ss | 2 | 7 | -61.9 | -61.9 | | | 0.19 | -51.7 | -41 | 10.41 |
| HE80, M0 to M9 2ss | 2 | 7 | -61.9 | -61.9 | | | 0.19 | -51.7 | -41 | 10.41 |
| HE80, M0 to M9 1ss | 3 | 7 | -61.9 | -61.9 | -62.6 | | 0.19 | -50.1 | -41 | 8.88 |
| HE80, M0 to M9 2ss | 3 | 7 | -61.9 | -61.9 | -62.6 | | 0.19 | -50.1 | -41 | 8.88 |
| HE80, M0 to M9 3ss | 3 | 7 | -61.9 | -61.9 | -62.6 | | 0.19 | -50.1 | -41 | 8.88 |
| HE80, M0 to M9 1ss | 4 | 7 | -61.8 | -61.9 | -62.9 | -61.8 | 0.19 | -48.9 | -41 | 7.6 |
| HE80, M0 to M9 2ss | 4 | 7 | -61.8 | -61.9 | -62.9 | -61.8 | 0.19 | -48.9 | -41 | 7.6 |
| HE80, M0 to M9 3ss | 4 | 7 | -61.8 | -61.9 | -62.9 | -61.8 | 0.19 | -48.9 | -41 | 7.6 |
| HE80, M0 to M9 4ss | 4 | 7 | -61.8 | -61.9 | -62.9 | -61.8 | 0.19 | -48.9 | -41 | 7.6 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | 10 | -61.8 | -61.9 | | | 0.19 | -48.6 | -41 | 7.38 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | 7 | -61.9 | -61.9 | | | 0.19 | -51.7 | -41 | 10.41 |
| HE80 Beam Forming, M0 to M9 1ss | 3 | 12 | -64.4 | -65.9 | -66.5 | | 0.19 | -48.6 | -41 | 7.31 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | 9 | -61.8 | -61.9 | -62.9 | | 0.19 | -48.2 | -41 | 6.94 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | 7 | -61.9 | -61.9 | -62.6 | | 0.19 | -50.1 | -41 | 8.88 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | 13 | -64.5 | -65.5 | -66.8 | -63.2 | 0.19 | -45.6 | -41 | 4.32 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | 10 | -64.3 | -65.5 | -66.7 | -63.2 | 0.19 | -48.5 | -41 | 7.29 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | 8 | -61.4 | -61.8 | -62.7 | -61.4 | 0.19 | -47.6 | -41 | 6.34 |

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|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|-------|
| HE80 Beam Forming, M0 to M9 4ss | 4 | 7 | -61.8 | -61.9 | -62.9 | -61.8 | 0.19 | -48.9 | -41 | 7.6 |
| HE80 STBC, M0 to M9 1ss | 2 | 7 | -61.9 | -61.9 | | | 0.19 | -51.7 | -41 | 10.41 |
| HE80 STBC, M0 to M9 1ss | 3 | 7 | -61.9 | -61.9 | -62.6 | | 0.19 | -50.1 | -41 | 8.88 |
| HE80 STBC, M0 to M9 1ss | 4 | 7 | -61.8 | -61.9 | -62.9 | -61.8 | 0.19 | -48.9 | -41 | 7.6 |

Frequency 5220 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|--|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -55.0 | | | | 0.35 | -47.6 | -41 | 6.38 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -58.0 | -58.6 | | | 0.35 | -47.9 | -41 | 6.67 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -61.2 | -62.1 | -61.7 | | 0.35 | -49.5 | -41 | 8.28 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -61.5 | -66.1 | -65.6 | -63.5 | 0.35 | -50.4 | -41 | 9.13 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -58.0 | -58.6 | | | 0.35 | -44.9 | -41 | 3.67 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -61.2 | -62.1 | -61.7 | | 0.35 | -44.5 | -41 | 3.28 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -61.5 | -66.1 | -65.6 | -63.5 | 0.35 | -44.4 | -41 | 3.13 |
| HT/VHT20, M0 to M7 | 1 | 7 | -55.0 | | | | 0.24 | -47.7 | -41 | 6.49 |
| HT/VHT20, M0 to M7 | 2 | 7 | -57.6 | -58.8 | | | 0.24 | -47.9 | -41 | 6.67 |
| HT/VHT20, M8 to M15 | 2 | 7 | -55.0 | -56.4 | | | 0.24 | -45.4 | -41 | 4.14 |
| HT/VHT20, M0 to M7 | 3 | 7 | -61.3 | -62.3 | -61.6 | | 0.24 | -49.7 | -41 | 8.44 |
| HT/VHT20, M8 to M15 | 3 | 7 | -57.6 | -58.9 | -58.4 | | 0.24 | -46.2 | -41 | 4.99 |
| HT/VHT20, M16 to M23 | 3 | 7 | -57.6 | -58.4 | -57.7 | | 0.24 | -45.9 | -41 | 4.62 |
| HT/VHT20, M0 to M7 | 4 | 7 | -61.4 | -65.9 | -65.3 | -63.4 | 0.24 | -50.4 | -41 | 9.12 |

| | | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HT/VHT20, M8 to M15 | 4 | 7 | -60.8 | -62.0 | -61.5 | -61.7 | 0.24 | -48.3 | -41 | 7.0 |
| HT/VHT20, M16 to M23 | 4 | 7 | -57.6 | -58.9 | -58.4 | -59.0 | 0.24 | -45.2 | -41 | 3.92 |
| HT/VHT20, M24 to M31 | 4 | 7 | -57.6 | -58.8 | -58.1 | -58.8 | 0.24 | -45.0 | -41 | 3.78 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -57.6 | -58.8 | | | 0.24 | -44.9 | -41 | 3.67 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -55.0 | -56.4 | | | 0.24 | -45.4 | -41 | 4.14 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -61.3 | -62.3 | -61.6 | | 0.24 | -44.7 | -41 | 3.44 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -57.6 | -58.9 | -58.4 | | 0.24 | -44.2 | -41 | 2.99 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -57.6 | -58.4 | -57.7 | | 0.24 | -45.9 | -41 | 4.62 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -61.4 | -65.9 | -65.3 | -63.4 | 0.24 | -44.4 | -41 | 3.12 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -60.8 | -62.0 | -61.5 | -61.7 | 0.24 | -45.3 | -41 | 4.0 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -57.6 | -58.9 | -58.4 | -59.0 | 0.24 | -44.2 | -41 | 2.92 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -57.6 | -58.8 | -58.1 | -58.8 | 0.24 | -45.0 | -41 | 3.78 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -55.0 | -56.4 | | | 0.24 | -45.4 | -41 | 4.14 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -57.6 | -58.9 | -58.4 | | 0.24 | -46.2 | -41 | 4.99 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -60.8 | -62.0 | -61.5 | -61.7 | 0.24 | -48.3 | -41 | 7.0 |
| HE20, M0 to M9 1ss | 1 | 7 | -55.0 | | | | 0.19 | -47.8 | -41 | 6.59 |
| HE20, M0 to M9 1ss | 2 | 7 | -57.7 | -58.6 | | | 0.19 | -48.0 | -41 | 6.72 |
| HE20, M0 to M9 2ss | 2 | 7 | -55.0 | -56.1 | | | 0.19 | -45.3 | -41 | 4.07 |
| HE20, M0 to M9 1ss | 3 | 7 | -61.4 | -62.4 | -62.0 | | 0.19 | -50.0 | -41 | 8.7 |
| HE20, M0 to M9 2ss | 3 | 7 | -58.1 | -58.7 | -58.3 | | 0.19 | -46.4 | -41 | 5.17 |
| HE20, M0 to M9 3ss | 3 | 7 | -57.8 | -58.4 | -57.8 | | 0.19 | -46.0 | -41 | 4.77 |
| HE20, M0 to M9 1ss | 4 | 7 | -62.0 | -62.3 | -62.4 | -61.4 | 0.19 | -48.8 | -41 | 7.54 |
| HE20, M0 to M9 2ss | 4 | 7 | -61.0 | -62.2 | -62.0 | -61.7 | 0.19 | -48.5 | -41 | 7.25 |
| HE20, M0 to M9 3ss | 4 | 7 | -58.1 | -58.7 | -58.3 | -59.2 | 0.19 | -45.4 | -41 | 4.11 |
| HE20, M0 to M9 4ss | 4 | 7 | -57.7 | -58.6 | -58.2 | -58.7 | 0.19 | -45.1 | -41 | 3.86 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -57.7 | -58.6 | | | 0.19 | -45.0 | -41 | 3.72 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -55.0 | -56.1 | | | 0.19 | -45.3 | -41 | 4.07 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -61.4 | -62.4 | -62.0 | | 0.19 | -45.0 | -41 | 3.7 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -58.1 | -58.7 | -58.3 | | 0.19 | -44.4 | -41 | 3.17 |

| | | | | | | | | | | |
|------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -57.8 | -58.4 | -57.8 | | 0.19 | -46.0 | -41 | 4.77 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -62.0 | -62.3 | -62.4 | -61.4 | 0.19 | -42.8 | -41 | 1.54 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -61.0 | -62.2 | -62.0 | -61.7 | 0.19 | -45.5 | -41 | 4.25 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -58.1 | -58.7 | -58.3 | -59.2 | 0.19 | -44.4 | -41 | 3.11 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -57.7 | -58.6 | -58.2 | -58.7 | 0.19 | -45.1 | -41 | 3.86 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -55.0 | -56.1 | | | 0.19 | -45.3 | -41 | 4.07 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -58.1 | -58.7 | -58.3 | | 0.19 | -46.4 | -41 | 5.17 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -61.0 | -62.2 | -62.0 | -61.7 | 0.19 | -48.5 | -41 | 7.25 |

Frequency 5230 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|---------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | -55.4 | | | | 0.36 | -48.0 | -41 | 6.79 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | -55.4 | -56.3 | | | 0.36 | -45.5 | -41 | 4.21 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | -55.6 | -59.4 | -60.1 | | 0.36 | -45.8 | -41 | 4.51 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | -59.3 | -59.5 | -60.4 | -59.9 | 0.36 | -46.4 | -41 | 5.13 |
| HT/VHT40, M0 to M7 | 1 | 7 | -55.7 | | | | 0.28 | -48.4 | -41 | 7.19 |
| HT/VHT40, M0 to M7 | 2 | 7 | -55.7 | -55.9 | | | 0.28 | -45.5 | -41 | 4.28 |
| HT/VHT40, M8 to M15 | 2 | 7 | -55.7 | -55.9 | | | 0.28 | -45.5 | -41 | 4.28 |
| HT/VHT40, M0 to M7 | 3 | 7 | -58.3 | -61.0 | -57.8 | | 0.28 | -46.8 | -41 | 5.56 |
| HT/VHT40, M8 to M15 | 3 | 7 | -55.7 | -55.9 | -55.3 | | 0.28 | -43.6 | -41 | 2.32 |

| | | | | | | | | | | |
|---|----------|-----------|--------------|--------------|--------------|--------------|-------------|--------------|------------|-------------|
| HT/VHT40, M16 to M23 | 3 | 7 | -55.7 | -55.9 | -55.3 | | 0.28 | -43.6 | -41 | 2.32 |
| HT/VHT40, M0 to M7 | 4 | 7 | -61.5 | -62.0 | -61.2 | -61.5 | 0.28 | -48.2 | -41 | 6.98 |
| HT/VHT40, M8 to M15 | 4 | 7 | -58.3 | -59.0 | -57.2 | -57.8 | 0.28 | -44.7 | -41 | 3.45 |
| HT/VHT40, M16 to M23 | 4 | 7 | -58.3 | -58.9 | -57.5 | -57.7 | 0.28 | -44.8 | -41 | 3.51 |
| HT/VHT40, M24 to M31 | 4 | 7 | -58.3 | -58.9 | -57.5 | -57.7 | 0.28 | -44.8 | -41 | 3.51 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | -57.9 | -58.5 | | | 0.28 | -44.9 | -41 | 3.63 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | -55.7 | -55.9 | | | 0.28 | -45.5 | -41 | 4.28 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | -59.0 | -61.3 | -61.3 | | 0.28 | -43.3 | -41 | 2.09 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | -58.3 | -58.9 | -57.5 | | 0.28 | -44.1 | -41 | 2.89 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | -55.7 | -55.9 | -55.3 | | 0.28 | -43.6 | -41 | 2.32 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -62.4 | -62.6 | -61.4 | -61.5 | 0.28 | -42.6 | -41 | 1.38 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | -58.3 | -61.0 | -57.8 | -58.4 | 0.28 | -42.4 | -41 | 1.18 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | -58.3 | -59.0 | -57.2 | -57.8 | 0.28 | -43.7 | -41 | 2.45 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | -58.3 | -58.9 | -57.5 | -57.7 | 0.28 | -44.8 | -41 | 3.51 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | -55.7 | -55.9 | | | 0.28 | -45.5 | -41 | 4.28 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | -55.7 | -55.9 | -55.3 | | 0.28 | -43.6 | -41 | 2.32 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | -58.3 | -59.0 | -57.2 | -57.8 | 0.28 | -44.7 | -41 | 3.45 |
| HE40, M0 to M9 1ss | 1 | 7 | -55.3 | | | | 0.19 | -48.1 | -41 | 6.86 |
| HE40, M0 to M9 1ss | 2 | 7 | -55.3 | -55.6 | | | 0.19 | -45.3 | -41 | 4.01 |
| HE40, M0 to M9 2ss | 2 | 7 | -55.3 | -55.6 | | | 0.19 | -45.3 | -41 | 4.01 |
| HE40, M0 to M9 1ss | 3 | 7 | -58.3 | -58.7 | -57.9 | | 0.19 | -46.3 | -41 | 5.08 |
| HE40, M0 to M9 2ss | 3 | 7 | -55.7 | -58.2 | -57.2 | | 0.19 | -45.0 | -41 | 3.71 |
| HE40, M0 to M9 3ss | 3 | 7 | -55.3 | -55.6 | -55.1 | | 0.19 | -43.4 | -41 | 2.12 |
| HE40, M0 to M9 1ss | 4 | 7 | -61.1 | -61.6 | -61.5 | -61.0 | 0.19 | -48.1 | -41 | 6.87 |
| HE40, M0 to M9 2ss | 4 | 7 | -57.8 | -58.8 | -57.3 | -57.6 | 0.19 | -44.6 | -41 | 3.39 |
| HE40, M0 to M9 3ss | 4 | 7 | -58.4 | -58.5 | -57.3 | -57.5 | 0.19 | -44.7 | -41 | 3.44 |
| HE40, M0 to M9 4ss | 4 | 7 | -58.4 | -58.5 | -57.3 | -57.5 | 0.19 | -44.7 | -41 | 3.44 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | -58.4 | -58.5 | | | 0.19 | -45.2 | -41 | 3.99 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | -55.3 | -55.6 | | | 0.19 | -45.3 | -41 | 4.01 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -61.1 | -61.6 | -61.5 | | 0.19 | -44.5 | -41 | 3.22 |

| | | | | | | | | | | |
|--|----------|-----------|--------------|--------------|--------------|--------------|-------------|--------------|------------|------------|
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | -57.8 | -58.8 | -57.3 | | 0.19 | -44.0 | -41 | 2.74 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | -55.3 | -55.6 | -55.1 | | 0.19 | -43.4 | -41 | 2.12 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -62.0 | -62.0 | -61.5 | -61.5 | 0.19 | -42.5 | -41 | 1.3 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | -58.6 | -61.3 | -61.0 | -60.9 | 0.19 | -44.1 | -41 | 2.87 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | -57.8 | -58.8 | -57.3 | -57.6 | 0.19 | -43.6 | -41 | 2.39 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | -58.4 | -58.5 | -57.3 | -57.5 | 0.19 | -44.7 | -41 | 3.44 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | -55.3 | -55.6 | | | 0.19 | -45.3 | -41 | 4.01 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | -55.7 | -58.2 | -57.2 | | 0.19 | -45.0 | -41 | 3.71 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | -57.8 | -58.8 | -57.3 | -57.6 | 0.19 | -44.6 | -41 | 3.39 |

Frequency 5240 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|--|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -55.1 | | | | 0.35 | -47.7 | -41 | 6.45 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -57.0 | -58.1 | | | 0.35 | -47.2 | -41 | 5.9 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -60.4 | -61.8 | -61.2 | | 0.35 | -49.0 | -41 | 7.75 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -63.9 | -65.3 | -64.5 | -61.7 | 0.35 | -50.3 | -41 | 9.0 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -57.0 | -58.1 | | | 0.35 | -44.2 | -41 | 2.9 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -60.4 | -61.8 | -61.2 | | 0.35 | -44.0 | -41 | 2.75 |

| | | | | | | | | | | |
|-------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -63.9 | -65.3 | -64.5 | -61.7 | 0.35 | -44.3 | -41 | 3.0 |
| HT/VHT20, M0 to M7 | 1 | 7 | -55.3 | | | | 0.24 | -48.1 | -41 | 6.82 |
| HT/VHT20, M0 to M7 | 2 | 7 | -57.2 | -58.5 | | | 0.24 | -47.6 | -41 | 6.31 |
| HT/VHT20, M8 to M15 | 2 | 7 | -55.3 | -55.5 | | | 0.24 | -45.2 | -41 | 3.92 |
| HT/VHT20, M0 to M7 | 3 | 7 | -61.2 | -61.5 | -61.0 | | 0.24 | -49.2 | -41 | 7.98 |
| HT/VHT20, M8 to M15 | 3 | 7 | -57.2 | -58.5 | -57.7 | | 0.24 | -45.7 | -41 | 4.5 |
| HT/VHT20, M16 to M23 | 3 | 7 | -57.0 | -57.5 | -56.8 | | 0.24 | -45.1 | -41 | 3.83 |
| HT/VHT20, M0 to M7 | 4 | 7 | -63.9 | -62.4 | -61.7 | -61.5 | 0.24 | -49.0 | -41 | 7.77 |
| HT/VHT20, M8 to M15 | 4 | 7 | -60.5 | -61.0 | -60.8 | -60.8 | 0.24 | -47.5 | -41 | 6.27 |
| HT/VHT20, M16 to M23 | 4 | 7 | -57.9 | -58.8 | -57.7 | -57.8 | 0.24 | -44.8 | -41 | 3.53 |
| HT/VHT20, M24 to M31 | 4 | 7 | -57.2 | -58.5 | -57.7 | -57.4 | 0.24 | -44.4 | -41 | 3.15 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -57.2 | -58.5 | | | 0.24 | -44.6 | -41 | 3.31 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -55.3 | -55.5 | | | 0.24 | -45.2 | -41 | 3.92 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -61.2 | -61.5 | -61.0 | | 0.24 | -44.2 | -41 | 2.98 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -57.2 | -58.5 | -57.7 | | 0.24 | -43.7 | -41 | 2.5 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -57.0 | -57.5 | -56.8 | | 0.24 | -45.1 | -41 | 3.83 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -63.9 | -62.4 | -61.7 | -61.5 | 0.24 | -43.0 | -41 | 1.77 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -60.5 | -61.0 | -60.8 | -60.8 | 0.24 | -44.5 | -41 | 3.27 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -57.9 | -58.8 | -57.7 | -57.8 | 0.24 | -43.8 | -41 | 2.53 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -57.2 | -58.5 | -57.7 | -57.4 | 0.24 | -44.4 | -41 | 3.15 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -55.3 | -55.5 | | | 0.24 | -45.2 | -41 | 3.92 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -57.2 | -58.5 | -57.7 | | 0.24 | -45.7 | -41 | 4.5 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -60.5 | -61.0 | -60.8 | -60.8 | 0.24 | -47.5 | -41 | 6.27 |
| HE20, M0 to M9 1ss | 1 | 7 | -54.8 | | | | 0.19 | -47.6 | -41 | 6.39 |
| HE20, M0 to M9 1ss | 2 | 7 | -57.6 | -58.5 | | | 0.19 | -47.9 | -41 | 6.61 |
| HE20, M0 to M9 2ss | 2 | 7 | -54.8 | -55.3 | | | 0.19 | -44.8 | -41 | 3.6 |
| HE20, M0 to M9 1ss | 3 | 7 | -61.0 | -61.6 | -61.4 | | 0.19 | -49.4 | -41 | 8.11 |
| HE20, M0 to M9 2ss | 3 | 7 | -57.6 | -58.5 | -57.5 | | 0.19 | -45.9 | -41 | 4.67 |
| HE20, M0 to M9 3ss | 3 | 7 | -57.1 | -56.0 | -56.7 | | 0.19 | -44.6 | -41 | 3.39 |
| HE20, M0 to M9 1ss | 4 | 7 | -62.1 | -62.3 | -61.9 | -61.4 | 0.19 | -48.7 | -41 | 7.44 |
| HE20, M0 to M9 2ss | 4 | 7 | -60.5 | -61.0 | -60.6 | -60.7 | 0.19 | -47.5 | -41 | 6.26 |
| HE20, M0 to M9 3ss | 4 | 7 | -57.6 | -58.6 | -57.8 | -57.8 | 0.19 | -44.7 | -41 | 3.48 |

| | | | | | | | | | | |
|---------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HE20, M0 to M9 4ss | 4 | 7 | -57.6 | -58.5 | -57.5 | -57.2 | 0.19 | -44.5 | -41 | 3.25 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -57.6 | -58.5 | | | 0.19 | -44.9 | -41 | 3.61 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -54.8 | -55.3 | | | 0.19 | -44.8 | -41 | 3.6 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -61.0 | -61.6 | -61.4 | | 0.19 | -44.4 | -41 | 3.11 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -57.6 | -58.5 | -57.5 | | 0.19 | -43.9 | -41 | 2.67 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -57.1 | -56.0 | -56.7 | | 0.19 | -44.6 | -41 | 3.39 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -62.1 | -62.3 | -61.9 | -61.4 | 0.19 | -42.7 | -41 | 1.44 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -60.5 | -61.0 | -60.6 | -60.7 | 0.19 | -44.5 | -41 | 3.26 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -57.6 | -58.6 | -57.8 | -57.8 | 0.19 | -43.7 | -41 | 2.48 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -57.6 | -58.5 | -57.5 | -57.2 | 0.19 | -44.5 | -41 | 3.25 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -54.8 | -55.3 | | | 0.19 | -44.8 | -41 | 3.6 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -57.6 | -58.5 | -57.5 | | 0.19 | -45.9 | -41 | 4.67 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -60.5 | -61.0 | -60.6 | -60.7 | 0.19 | -47.5 | -41 | 6.26 |

Frequency 5250 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------------|----------------------------|-----------------|----------------------------|------------|-------------|
| Non HT80+80, 6 to 54 Mbps | 1 | 7 | -57.3 | | 0.4 | -49.9 | -41 | 8.65 |
| Non HT80+80, 6 to 54 Mbps | 2 | 7 | -61.4 | -61.2 | 0.4 | -50.9 | -41 | 9.64 |
| VHT80+80, M0 to M9 1ss | 1 | 7 | -56.6 | | 0.5 | -49.1 | -41 | 7.85 |
| VHT80+80, M0 to M9 1ss | 2 | 7 | -60.1 | -60.3 | 0.5 | -49.7 | -41 | 8.44 |
| VHT80+80, M0 to M9 2ss | 2 | 7 | -60.1 | -60.3 | 0.5 | -49.7 | -41 | 8.44 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -61.5 | -63.6 | 0.5 | -48.9 | -41 | 7.66 |

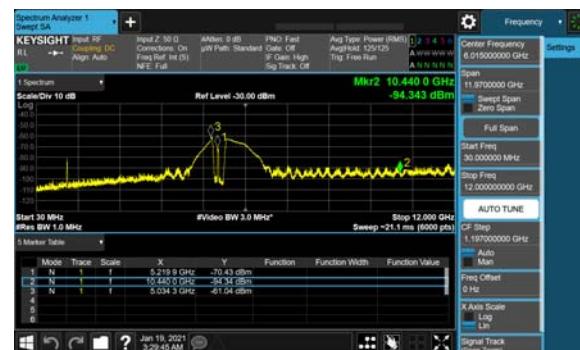
| | | | | | | | | |
|-------------------------------------|---|----|-------|-------|-----|-------|-----|------|
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -60.1 | -60.3 | 0.5 | -49.7 | -41 | 8.44 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | 7 | -60.1 | -60.3 | 0.5 | -49.7 | -41 | 8.44 |
| HE80+80, M0 to M9 1ss | 1 | 7 | -57.7 | | 0.3 | -50.4 | -41 | 9.15 |
| HE80+80, M0 to M9 1ss | 2 | 7 | -59.3 | -60.2 | 0.3 | -49.4 | -41 | 8.17 |
| HE80+80, M0 to M9 2ss | 2 | 7 | -59.3 | -60.2 | 0.3 | -49.4 | -41 | 8.17 |
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -64.9 | -64.1 | 0.3 | -51.2 | -41 | 9.92 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -59.3 | -60.2 | 0.3 | -49.4 | -41 | 8.17 |
| HE80+80 STBC, M0 to M9 1ss | 2 | 7 | -59.3 | -60.2 | 0.3 | -49.4 | -41 | 8.17 |

Data Screenshots

5230 MHz: HT/VHT40 Beam Forming, M8 to M15



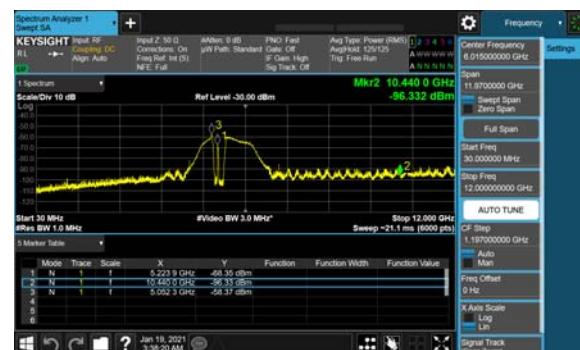
Antenna A



Antenna B



Antenna C



Antenna D

5230 MHz: HE40 Beam Forming, M0 to M9 1ss



Antenna A



Antenna B



Antenna C

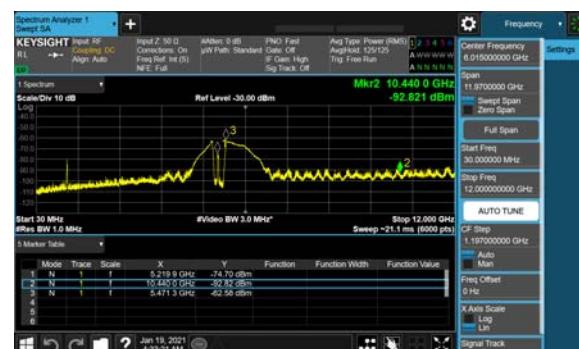


Antenna D

5230 MHz: HT/VHT40 Beam Forming, M0 to M7



Antenna A



Antenna B



Antenna C



Antenna D

Conducted Spurs Peak

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|----------------------------|------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -47.4 | | | 0.35 | -40.1 | -27 | 13.05 | |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -43.7 | -52.0 | | 0.35 | -35.8 | -27 | 8.75 | |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -52.1 | -53.1 | -52.7 | 0.35 | -40.5 | -27 | 13.49 | |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -49.4 | -57.1 | -54.7 | -56.6 | 0.35 | -39.9 | -27 | 12.86 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -43.7 | -52.0 | | 0.35 | -32.8 | -27 | 5.75 | |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -52.1 | -53.1 | -52.7 | 0.35 | -35.5 | -27 | 8.49 | |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -49.4 | -57.1 | -54.7 | -56.6 | 0.35 | -33.9 | -27 | 6.86 |
| HT/VHT20, M0 to M7 | 1 | 7 | -47.9 | | | 0.24 | -40.7 | -27 | 13.66 | |
| HT/VHT20, M0 to M7 | 2 | 7 | -47.9 | -47.8 | | 0.24 | -37.6 | -27 | 10.6 | |
| HT/VHT20, M8 to M15 | 2 | 7 | -48.9 | -48.0 | | 0.24 | -38.2 | -27 | 11.18 | |
| HT/VHT20, M0 to M7 | 3 | 7 | -50.8 | -53.2 | -52.5 | 0.19 | -40.1 | -27 | 13.09 | |
| HT/VHT20, M8 to M15 | 3 | 7 | -44.4 | -52.2 | -52.1 | 0.24 | -35.9 | -27 | 8.91 | |
| HT/VHT20, M16 to M23 | 3 | 7 | -44.4 | -52.2 | -52.1 | 0.24 | -35.9 | -27 | 8.91 | |
| HT/VHT20, M0 to M7 | 4 | 7 | -54.0 | -52.2 | -50.9 | -52.4 | 0.24 | -39.0 | -27 | 11.98 |
| HT/VHT20, M8 to M15 | 4 | 7 | -50.8 | -51.8 | -52.0 | -51.8 | 0.24 | -38.3 | -27 | 11.32 |
| HT/VHT20, M16 to M23 | 4 | 7 | -44.4 | -52.2 | -52.1 | -51.2 | 0.24 | -35.3 | -27 | 8.27 |
| HT/VHT20, M24 to M31 | 4 | 7 | -44.4 | -52.2 | -52.1 | -51.2 | 0.24 | -35.3 | -27 | 8.27 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -44.4 | -52.2 | | 0.24 | -33.5 | -27 | 6.5 | |

| | | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -48.9 | -48.0 | | | 0.24 | -38.2 | -27 | 11.18 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -50.8 | -53.2 | -52.5 | | 0.19 | -35.1 | -27 | 8.09 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -44.4 | -52.2 | -52.1 | | 0.24 | -33.9 | -27 | 6.91 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -44.4 | -52.2 | -52.1 | | 0.24 | -35.9 | -27 | 8.91 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -55.0 | -57.5 | -55.5 | -55.5 | 0.24 | -36.5 | -27 | 9.52 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -50.8 | -53.2 | -52.5 | -51.8 | 0.19 | -35.8 | -27 | 8.78 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -44.4 | -52.2 | -52.1 | -51.2 | 0.24 | -34.3 | -27 | 7.27 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -44.4 | -52.2 | -52.1 | -51.2 | 0.24 | -35.3 | -27 | 8.27 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -48.9 | -48.0 | | | 0.24 | -38.2 | -27 | 11.18 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -44.4 | -52.2 | -52.1 | | 0.24 | -35.9 | -27 | 8.91 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -50.8 | -51.8 | -52.0 | -51.8 | 0.24 | -38.3 | -27 | 11.32 |
| HE20, M0 to M9 1ss | 1 | 7 | -48.8 | | | | 0.19 | -41.6 | -27 | 14.61 |
| HE20, M0 to M9 1ss | 2 | 7 | -41.8 | -48.2 | | | 0.19 | -33.7 | -27 | 6.72 |
| HE20, M0 to M9 2ss | 2 | 7 | -48.8 | -49.0 | | | 0.19 | -38.7 | -27 | 11.7 |
| HE20, M0 to M9 1ss | 3 | 7 | -50.4 | -51.9 | -51.1 | | 0.19 | -39.1 | -27 | 12.13 |
| HE20, M0 to M9 2ss | 3 | 7 | -49.4 | -48.5 | -47.5 | | 0.19 | -36.4 | -27 | 9.44 |
| HE20, M0 to M9 3ss | 3 | 7 | -49.4 | -48.5 | -47.5 | | 0.19 | -36.4 | -27 | 9.44 |
| HE20, M0 to M9 1ss | 4 | 7 | -48.4 | -53.0 | -52.8 | -52.8 | 0.19 | -38.0 | -27 | 11.05 |
| HE20, M0 to M9 2ss | 4 | 7 | -48.7 | -52.7 | -52.7 | -51.9 | 0.19 | -37.9 | -27 | 10.94 |
| HE20, M0 to M9 3ss | 4 | 7 | -50.1 | -52.1 | -52.0 | -52.5 | 0.19 | -38.4 | -27 | 11.36 |
| HE20, M0 to M9 4ss | 4 | 7 | -50.1 | -52.1 | -52.0 | -52.5 | 0.19 | -38.4 | -27 | 11.36 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -50.1 | -52.1 | | | 0.19 | -37.8 | -27 | 10.79 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -48.8 | -49.0 | | | 0.19 | -38.7 | -27 | 11.7 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -48.4 | -53.0 | -52.8 | | 0.19 | -33.9 | -27 | 6.88 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -50.1 | -52.1 | -52.0 | | 0.19 | -37.3 | -27 | 10.34 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -49.4 | -48.5 | -47.5 | | 0.19 | -36.4 | -27 | 9.44 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -53.3 | -56.5 | -56.4 | -57.1 | 0.19 | -36.3 | -27 | 9.34 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -50.4 | -51.9 | -51.1 | -53.2 | 0.19 | -35.3 | -27 | 8.32 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -50.1 | -52.1 | -52.0 | -52.5 | 0.19 | -37.4 | -27 | 10.36 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|-------|
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -50.1 | -52.1 | -52.0 | -52.5 | 0.19 | -38.4 | -27 | 11.36 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -48.8 | -49.0 | | | 0.19 | -38.7 | -27 | 11.7 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -49.4 | -48.5 | -47.5 | | 0.19 | -36.4 | -27 | 9.44 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -48.7 | -52.7 | -52.7 | -51.9 | 0.19 | -37.9 | -27 | 10.94 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|---------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | -49.6 | | | | 0.36 | -42.2 | -27 | 15.24 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | -49.6 | -49.6 | | | 0.36 | -39.2 | -27 | 12.23 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | -49.7 | -50.6 | -49.6 | | 0.36 | -37.8 | -27 | 10.82 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | -48.6 | -49.5 | -49.9 | -49.5 | 0.35 | -36.0 | -27 | 8.98 |
| HT/VHT40, M0 to M7 | 1 | 7 | -47.0 | | | | 0.28 | -39.7 | -27 | 12.72 |
| HT/VHT40, M0 to M7 | 2 | 7 | -47.0 | -47.1 | | | 0.28 | -36.8 | -27 | 9.76 |
| HT/VHT40, M8 to M15 | 2 | 7 | -47.0 | -47.1 | | | 0.28 | -36.8 | -27 | 9.76 |
| HT/VHT40, M0 to M7 | 3 | 7 | -36.2 | -50.5 | -50.4 | | 0.28 | -28.6 | -27 | 1.61 |
| HT/VHT40, M8 to M15 | 3 | 7 | -36.2 | -50.5 | -50.4 | | 0.28 | -28.6 | -27 | 1.61 |
| HT/VHT40, M16 to M23 | 3 | 7 | -36.2 | -50.5 | -50.4 | | 0.28 | -28.6 | -27 | 1.61 |
| HT/VHT40, M0 to M7 | 4 | 7 | -50.0 | -51.5 | -50.9 | -51.5 | 0.28 | -37.6 | -27 | 10.63 |
| HT/VHT40, M8 to M15 | 4 | 7 | -50.0 | -51.5 | -50.9 | -51.5 | 0.28 | -37.6 | -27 | 10.63 |
| HT/VHT40, M16 to M23 | 4 | 7 | -50.0 | -51.5 | -50.9 | -51.5 | 0.28 | -37.6 | -27 | 10.63 |
| HT/VHT40, M24 to M31 | 4 | 7 | -50.0 | -51.5 | -50.9 | -51.5 | 0.28 | -37.6 | -27 | 10.63 |

| | | | | | | | | | | |
|--|----------|-----------|--------------|--------------|--------------|--------------|-------------|--------------|------------|-------------|
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | -50.2 | -51.0 | | | 0.28 | -37.3 | -27 | 10.29 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | -47.0 | -47.1 | | | 0.28 | -36.8 | -27 | 9.76 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | -41.1 | -54.7 | -54.6 | | 0.28 | -28.5 | -27 | 1.45 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | -50.2 | -51.0 | -51.6 | | 0.28 | -36.8 | -27 | 9.85 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | -36.2 | -50.5 | -50.4 | | 0.28 | -28.6 | -27 | 1.61 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -41.8 | -55.7 | -55.9 | -56.5 | 0.28 | -28.1 | -27 | 1.05 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | -41.1 | -54.7 | -54.6 | -54.5 | 0.28 | -30.3 | -27 | 3.27 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | -50.2 | -51.0 | -51.6 | -51.8 | 0.28 | -36.8 | -27 | 9.8 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | -50.0 | -51.5 | -50.9 | -51.5 | 0.28 | -37.6 | -27 | 10.63 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | -47.0 | -47.1 | | | 0.28 | -36.8 | -27 | 9.76 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | -36.2 | -50.5 | -50.4 | | 0.28 | -28.6 | -27 | 1.61 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | -50.0 | -51.5 | -50.9 | -51.5 | 0.28 | -37.6 | -27 | 10.63 |
| HE40, M0 to M9 1ss | 1 | 7 | -46.8 | | | | 0.19 | -39.6 | -27 | 12.61 |
| HE40, M0 to M9 1ss | 2 | 7 | -49.9 | -51.0 | | | 0.19 | -40.2 | -27 | 13.22 |
| HE40, M0 to M9 2ss | 2 | 7 | -49.9 | -51.0 | | | 0.19 | -40.2 | -27 | 13.22 |
| HE40, M0 to M9 1ss | 3 | 7 | -50.4 | -51.1 | -51.6 | | 0.19 | -39.0 | -27 | 12.04 |
| HE40, M0 to M9 2ss | 3 | 7 | -50.4 | -51.1 | -51.6 | | 0.19 | -39.0 | -27 | 12.04 |
| HE40, M0 to M9 3ss | 3 | 7 | -50.4 | -51.1 | -51.6 | | 0.19 | -39.0 | -27 | 12.04 |
| HE40, M0 to M9 1ss | 4 | 7 | -49.5 | -51.9 | -50.9 | -51.0 | 0.34 | -37.4 | -27 | 10.37 |
| HE40, M0 to M9 2ss | 4 | 7 | -49.5 | -51.9 | -50.9 | -51.0 | 0.34 | -37.4 | -27 | 10.37 |
| HE40, M0 to M9 3ss | 4 | 7 | -49.5 | -51.9 | -50.9 | -51.0 | 0.34 | -37.4 | -27 | 10.37 |
| HE40, M0 to M9 4ss | 4 | 7 | -49.5 | -51.9 | -50.9 | -51.0 | 0.34 | -37.4 | -27 | 10.37 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | -49.7 | -50.9 | | | 0.19 | -37.1 | -27 | 10.06 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | -49.9 | -51.0 | | | 0.19 | -40.2 | -27 | 13.22 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -54.4 | -55.8 | -55.5 | | 0.19 | -38.2 | -27 | 11.23 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | -49.7 | -50.9 | -51.1 | | 0.19 | -36.6 | -27 | 9.56 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | -50.4 | -51.1 | -51.6 | | 0.19 | -39.0 | -27 | 12.04 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -55.3 | -55.3 | -54.9 | -55.5 | 0.19 | -36.0 | -27 | 9.03 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | -54.3 | -55.4 | -55.6 | -56.1 | 0.19 | -39.1 | -27 | 12.09 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|-------|
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | -49.7 | -50.9 | -51.1 | -51.1 | 0.19 | -36.4 | -27 | 9.45 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | -49.5 | -51.9 | -50.9 | -51.0 | 0.34 | -37.4 | -27 | 10.37 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | -49.9 | -51.0 | | | 0.19 | -40.2 | -27 | 13.22 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | -50.4 | -51.1 | -51.6 | | 0.19 | -39.0 | -27 | 12.04 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | -49.5 | -51.9 | -50.9 | -51.0 | 0.34 | -37.4 | -27 | 10.37 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT80, 6 to 54 Mbps | 1 | 7 | -45.1 | | | | 0.36 | -37.7 | -27 | 10.74 |
| Non HT80, 6 to 54 Mbps | 2 | 7 | -47.2 | -49.6 | | | 0.36 | -37.9 | -27 | 10.87 |
| Non HT80, 6 to 54 Mbps | 3 | 7 | -48.6 | -49.8 | -49.3 | | 0.36 | -37.1 | -27 | 10.08 |
| Non HT80, 6 to 54 Mbps | 4 | 7 | -52.1 | -52.9 | -53.5 | -53.0 | 0.36 | -39.5 | -27 | 12.47 |
| VHT80, M0 to M9 1ss | 1 | 7 | -46.1 | | | | 0.46 | -38.6 | -27 | 11.64 |
| VHT80, M0 to M9 1ss | 2 | 7 | -49.8 | -49.9 | | | 0.46 | -39.4 | -27 | 12.38 |
| VHT80, M0 to M9 2ss | 2 | 7 | -49.8 | -49.9 | | | 0.46 | -39.4 | -27 | 12.38 |
| VHT80, M0 to M9 1ss | 3 | 7 | -49.8 | -49.9 | -50.6 | | 0.46 | -37.9 | -27 | 10.86 |
| VHT80, M0 to M9 2ss | 3 | 7 | -49.8 | -49.9 | -50.6 | | 0.46 | -37.9 | -27 | 10.86 |
| VHT80, M0 to M9 3ss | 3 | 7 | -49.8 | -49.9 | -50.6 | | 0.46 | -37.9 | -27 | 10.86 |
| VHT80, M0 to M9 1ss | 4 | 7 | -50.6 | -51.1 | -50.0 | -50.6 | 0.46 | -37.1 | -27 | 10.07 |
| VHT80, M0 to M9 2ss | 4 | 7 | -50.6 | -51.1 | -50.0 | -50.6 | 0.46 | -37.1 | -27 | 10.07 |
| VHT80, M0 to M9 3ss | 4 | 7 | -50.6 | -51.1 | -50.0 | -50.6 | 0.46 | -37.1 | -27 | 10.07 |
| VHT80, M0 to M9 4ss | 4 | 7 | -50.6 | -51.1 | -50.0 | -50.6 | 0.46 | -37.1 | -27 | 10.07 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | 10 | -50.4 | -51.3 | | | 0.46 | -37.4 | -27 | 10.36 |

| | | | | | | | | | | |
|-------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| VHT80 Beam Forming, M0 to M9 2ss | 2 | 7 | -49.8 | -49.9 | | | 0.46 | -39.4 | -27 | 12.38 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | 12 | -54.3 | -53.9 | -54.4 | | 0.46 | -37.0 | -27 | 9.97 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | 9 | -50.4 | -51.3 | -49.9 | | 0.46 | -36.3 | -27 | 9.27 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | 7 | -49.8 | -49.9 | -50.6 | | 0.46 | -37.9 | -27 | 10.86 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | 13 | -53.6 | -55.2 | -55.4 | -54.8 | 0.46 | -35.2 | -27 | 8.21 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | 10 | -54.3 | -53.9 | -54.4 | -55.6 | 0.46 | -38.0 | -27 | 11.03 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | 8 | -50.4 | -51.3 | -49.9 | -51.1 | 0.46 | -36.2 | -27 | 9.16 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | 7 | -50.6 | -51.1 | -50.0 | -50.6 | 0.46 | -37.1 | -27 | 10.07 |
| VHT80 STBC, M0 to M9 1ss | 2 | 7 | -49.8 | -49.9 | | | 0.46 | -39.4 | -27 | 12.38 |
| VHT80 STBC, M0 to M9 1ss | 3 | 7 | -49.8 | -49.9 | -50.6 | | 0.46 | -37.9 | -27 | 10.86 |
| VHT80 STBC, M0 to M9 1ss | 4 | 7 | -50.6 | -51.1 | -50.0 | -50.6 | 0.46 | -37.1 | -27 | 10.07 |
| HE80, M0 to M9 1ss | 1 | 7 | -45.8 | | | | 0.19 | -38.6 | -27 | 11.61 |
| HE80, M0 to M9 1ss | 2 | 7 | -49.6 | -49.8 | | | 0.19 | -39.5 | -27 | 12.5 |
| HE80, M0 to M9 2ss | 2 | 7 | -49.6 | -49.8 | | | 0.19 | -39.5 | -27 | 12.5 |
| HE80, M0 to M9 1ss | 3 | 7 | -49.6 | -49.8 | -49.7 | | 0.19 | -37.7 | -27 | 10.73 |
| HE80, M0 to M9 2ss | 3 | 7 | -49.6 | -49.8 | -49.7 | | 0.19 | -37.7 | -27 | 10.73 |
| HE80, M0 to M9 3ss | 3 | 7 | -49.6 | -49.8 | -49.7 | | 0.19 | -37.7 | -27 | 10.73 |
| HE80, M0 to M9 1ss | 4 | 7 | -48.4 | -50.2 | -50.4 | -51.2 | 0.19 | -36.7 | -27 | 9.71 |
| HE80, M0 to M9 2ss | 4 | 7 | -48.4 | -50.2 | -50.4 | -51.2 | 0.19 | -36.7 | -27 | 9.71 |
| HE80, M0 to M9 3ss | 4 | 7 | -48.4 | -50.2 | -50.4 | -51.2 | 0.19 | -36.7 | -27 | 9.71 |
| HE80, M0 to M9 4ss | 4 | 7 | -48.4 | -50.2 | -50.4 | -51.2 | 0.19 | -36.7 | -27 | 9.71 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | 10 | -48.4 | -50.2 | | | 0.19 | -36.0 | -27 | 9.0 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | 7 | -49.6 | -49.8 | | | 0.19 | -39.5 | -27 | 12.5 |
| HE80 Beam Forming, M0 to M9 1ss | 3 | 12 | -54.8 | -55.3 | -54.7 | | 0.19 | -38.0 | -27 | 10.96 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | 9 | -48.4 | -50.2 | -50.4 | | 0.19 | -35.6 | -27 | 8.61 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | 7 | -49.6 | -49.8 | -49.7 | | 0.19 | -37.7 | -27 | 10.73 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | 13 | -54.6 | -55.1 | -55.7 | -55.3 | 0.19 | -35.9 | -27 | 8.94 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | 10 | -54.4 | -55.1 | -55.2 | -54.7 | 0.19 | -38.6 | -27 | 11.62 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | 8 | -51.0 | -50.8 | -49.7 | -50.2 | 0.19 | -36.2 | -27 | 9.18 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|-------|
| HE80 Beam Forming, M0 to M9 4ss | 4 | 7 | -48.4 | -50.2 | -50.4 | -51.2 | 0.19 | -36.7 | -27 | 9.71 |
| HE80 STBC, M0 to M9 1ss | 2 | 7 | -49.6 | -49.8 | | | 0.19 | -39.5 | -27 | 12.5 |
| HE80 STBC, M0 to M9 1ss | 3 | 7 | -49.6 | -49.8 | -49.7 | | 0.19 | -37.7 | -27 | 10.73 |
| HE80 STBC, M0 to M9 1ss | 4 | 7 | -48.4 | -50.2 | -50.4 | -51.2 | 0.19 | -36.7 | -27 | 9.71 |

Frequency 5220 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|--|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -46.9 | | | | 0.35 | -39.6 | -27 | 12.55 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -48.3 | -48.8 | | | 0.35 | -38.2 | -27 | 11.18 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -51.5 | -52.7 | -52.0 | | 0.35 | -39.9 | -27 | 12.92 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -52.1 | -55.9 | -55.5 | -55.7 | 0.35 | -41.1 | -27 | 14.11 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -48.3 | -48.8 | | | 0.35 | -35.2 | -27 | 8.18 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -51.5 | -52.7 | -52.0 | | 0.35 | -34.9 | -27 | 7.92 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -52.1 | -55.9 | -55.5 | -55.7 | 0.35 | -35.1 | -27 | 8.11 |
| HT/VHT20, M0 to M7 | 1 | 7 | -44.9 | | | | 0.24 | -37.7 | -27 | 10.66 |
| HT/VHT20, M0 to M7 | 2 | 7 | -47.8 | -49.6 | | | 0.24 | -38.4 | -27 | 11.36 |
| HT/VHT20, M8 to M15 | 2 | 7 | -44.9 | -46.2 | | | 0.24 | -35.3 | -27 | 8.25 |
| HT/VHT20, M0 to M7 | 3 | 7 | -51.5 | -52.7 | -51.8 | | 0.24 | -40.0 | -27 | 12.96 |
| HT/VHT20, M8 to M15 | 3 | 7 | -47.4 | -49.6 | -48.3 | | 0.24 | -36.3 | -27 | 9.33 |
| HT/VHT20, M16 to M23 | 3 | 7 | -49.1 | -48.5 | -48.2 | | 0.24 | -36.6 | -27 | 9.58 |
| HT/VHT20, M0 to M7 | 4 | 7 | -52.6 | -55.2 | -56.0 | -53.6 | 0.24 | -40.9 | -27 | 13.89 |

| | | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| HT/VHT20, M8 to M15 | 4 | 7 | -51.6 | -51.4 | -52.4 | -52.0 | 0.24 | -38.6 | -27 | 11.58 |
| HT/VHT20, M16 to M23 | 4 | 7 | -47.4 | -49.6 | -48.3 | -48.7 | 0.24 | -35.2 | -27 | 8.17 |
| HT/VHT20, M24 to M31 | 4 | 7 | -47.8 | -49.6 | -48.2 | -48.3 | 0.24 | -35.2 | -27 | 8.17 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -47.8 | -49.6 | | | 0.24 | -35.4 | -27 | 8.36 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -44.9 | -46.2 | | | 0.24 | -35.3 | -27 | 8.25 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -51.5 | -52.7 | -51.8 | | 0.24 | -35.0 | -27 | 7.96 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -47.4 | -49.6 | -48.3 | | 0.24 | -34.3 | -27 | 7.33 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -49.1 | -48.5 | -48.2 | | 0.24 | -36.6 | -27 | 9.58 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -52.6 | -55.2 | -56.0 | -53.6 | 0.24 | -34.9 | -27 | 7.89 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -51.6 | -51.4 | -52.4 | -52.0 | 0.24 | -35.6 | -27 | 8.58 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -47.4 | -49.6 | -48.3 | -48.7 | 0.24 | -34.2 | -27 | 7.17 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -47.8 | -49.6 | -48.2 | -48.3 | 0.24 | -35.2 | -27 | 8.17 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -44.9 | -46.2 | | | 0.24 | -35.3 | -27 | 8.25 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -47.4 | -49.6 | -48.3 | | 0.24 | -36.3 | -27 | 9.33 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -51.6 | -51.4 | -52.4 | -52.0 | 0.24 | -38.6 | -27 | 11.58 |
| HE20, M0 to M9 1ss | 1 | 7 | -46.1 | | | | 0.19 | -38.9 | -27 | 11.91 |
| HE20, M0 to M9 1ss | 2 | 7 | -48.6 | -48.3 | | | 0.19 | -38.3 | -27 | 11.25 |
| HE20, M0 to M9 2ss | 2 | 7 | -46.1 | -47.0 | | | 0.19 | -36.3 | -27 | 9.33 |
| HE20, M0 to M9 1ss | 3 | 7 | -51.7 | -52.4 | -52.9 | | 0.19 | -40.3 | -27 | 13.35 |
| HE20, M0 to M9 2ss | 3 | 7 | -48.6 | -47.7 | -48.0 | | 0.19 | -36.1 | -27 | 9.13 |
| HE20, M0 to M9 3ss | 3 | 7 | -48.8 | -48.4 | -48.5 | | 0.19 | -36.6 | -27 | 9.61 |
| HE20, M0 to M9 1ss | 4 | 7 | -52.1 | -52.6 | -52.8 | -52.0 | 0.19 | -39.2 | -27 | 12.16 |
| HE20, M0 to M9 2ss | 4 | 7 | -51.0 | -52.0 | -51.2 | -51.4 | 0.19 | -38.2 | -27 | 11.18 |
| HE20, M0 to M9 3ss | 4 | 7 | -48.6 | -47.7 | -48.0 | -49.3 | 0.19 | -35.2 | -27 | 8.15 |
| HE20, M0 to M9 4ss | 4 | 7 | -48.6 | -48.3 | -48.5 | -48.0 | 0.19 | -35.1 | -27 | 8.14 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -48.6 | -48.3 | | | 0.19 | -35.3 | -27 | 8.25 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -46.1 | -47.0 | | | 0.19 | -36.3 | -27 | 9.33 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -51.7 | -52.4 | -52.9 | | 0.19 | -35.3 | -27 | 8.35 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -48.6 | -47.7 | -48.0 | | 0.19 | -34.1 | -27 | 7.13 |

| | | | | | | | | | | |
|------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -48.8 | -48.4 | -48.5 | | 0.19 | -36.6 | -27 | 9.61 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -52.1 | -52.6 | -52.8 | -52.0 | 0.19 | -33.2 | -27 | 6.16 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -51.0 | -52.0 | -51.2 | -51.4 | 0.19 | -35.2 | -27 | 8.18 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -48.6 | -47.7 | -48.0 | -49.3 | 0.19 | -34.2 | -27 | 7.15 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -48.6 | -48.3 | -48.5 | -48.0 | 0.19 | -35.1 | -27 | 8.14 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -46.1 | -47.0 | | | 0.19 | -36.3 | -27 | 9.33 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -48.6 | -47.7 | -48.0 | | 0.19 | -36.1 | -27 | 9.13 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -51.0 | -52.0 | -51.2 | -51.4 | 0.19 | -38.2 | -27 | 11.18 |

Frequency 5230 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|---------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | -45.1 | | | | 0.36 | -37.7 | -27 | 10.74 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | -45.1 | -45.3 | | | 0.36 | -34.8 | -27 | 7.83 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | -45.8 | -48.9 | -49.5 | | 0.36 | -35.6 | -27 | 8.62 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | -49.6 | -49.4 | -49.8 | -49.5 | 0.36 | -36.2 | -27 | 9.19 |
| HT/VHT40, M0 to M7 | 1 | 7 | -44.9 | | | | 0.28 | -37.6 | -27 | 10.62 |
| HT/VHT40, M0 to M7 | 2 | 7 | -44.9 | -45.2 | | | 0.28 | -34.8 | -27 | 7.76 |
| HT/VHT40, M8 to M15 | 2 | 7 | -44.9 | -45.2 | | | 0.28 | -34.8 | -27 | 7.76 |
| HT/VHT40, M0 to M7 | 3 | 7 | -47.8 | -51.0 | -48.5 | | 0.28 | -36.8 | -27 | 9.85 |
| HT/VHT40, M8 to M15 | 3 | 7 | -44.9 | -45.2 | -44.3 | | 0.28 | -32.7 | -27 | 5.73 |

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|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| HT/VHT40, M16 to M23 | 3 | 7 | -44.9 | -45.2 | -44.3 | | 0.28 | -32.7 | -27 | 5.73 |
| HT/VHT40, M0 to M7 | 4 | 7 | -51.5 | -51.5 | -50.1 | -50.3 | 0.28 | -37.5 | -27 | 10.5 |
| HT/VHT40, M8 to M15 | 4 | 7 | -48.2 | -48.3 | -46.8 | -46.0 | 0.28 | -33.9 | -27 | 6.92 |
| HT/VHT40, M16 to M23 | 4 | 7 | -47.7 | -47.6 | -47.1 | -47.1 | 0.28 | -34.1 | -27 | 7.07 |
| HT/VHT40, M24 to M31 | 4 | 7 | -47.7 | -47.6 | -47.1 | -47.1 | 0.28 | -34.1 | -27 | 7.07 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | -47.4 | -46.4 | | | 0.28 | -33.6 | -27 | 6.58 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | -44.9 | -45.2 | | | 0.28 | -34.8 | -27 | 7.76 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | -48.8 | -51.4 | -50.4 | | 0.28 | -33.0 | -27 | 6.02 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | -47.7 | -47.6 | -47.1 | | 0.28 | -33.4 | -27 | 6.41 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | -44.9 | -45.2 | -44.3 | | 0.28 | -32.7 | -27 | 5.73 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -51.6 | -51.9 | -51.1 | -51.3 | 0.28 | -32.2 | -27 | 5.16 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | -47.8 | -51.0 | -48.5 | -48.6 | 0.28 | -32.5 | -27 | 5.52 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | -48.2 | -48.3 | -46.8 | -46.0 | 0.28 | -32.9 | -27 | 5.92 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | -47.7 | -47.6 | -47.1 | -47.1 | 0.28 | -34.1 | -27 | 7.07 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | -44.9 | -45.2 | | | 0.28 | -34.8 | -27 | 7.76 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | -44.9 | -45.2 | -44.3 | | 0.28 | -32.7 | -27 | 5.73 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | -48.2 | -48.3 | -46.8 | -46.0 | 0.28 | -33.9 | -27 | 6.92 |
| HE40, M0 to M9 1ss | 1 | 7 | -45.7 | | | | 0.19 | -38.5 | -27 | 11.51 |
| HE40, M0 to M9 1ss | 2 | 7 | -45.7 | -45.9 | | | 0.19 | -35.6 | -27 | 8.6 |
| HE40, M0 to M9 2ss | 2 | 7 | -45.7 | -45.9 | | | 0.19 | -35.6 | -27 | 8.6 |
| HE40, M0 to M9 1ss | 3 | 7 | -47.3 | -49.4 | -47.3 | | 0.19 | -35.9 | -27 | 8.93 |
| HE40, M0 to M9 2ss | 3 | 7 | -45.7 | -47.3 | -47.4 | | 0.19 | -34.8 | -27 | 7.77 |
| HE40, M0 to M9 3ss | 3 | 7 | -45.7 | -45.9 | -44.5 | | 0.19 | -33.4 | -27 | 6.36 |
| HE40, M0 to M9 1ss | 4 | 7 | -51.0 | -51.6 | -51.1 | -51.1 | 0.19 | -38.0 | -27 | 10.98 |
| HE40, M0 to M9 2ss | 4 | 7 | -47.9 | -48.1 | -47.4 | -47.3 | 0.19 | -34.5 | -27 | 7.45 |
| HE40, M0 to M9 3ss | 4 | 7 | -47.9 | -48.3 | -46.5 | -47.2 | 0.19 | -34.2 | -27 | 7.21 |
| HE40, M0 to M9 4ss | 4 | 7 | -47.9 | -48.3 | -46.5 | -47.2 | 0.19 | -34.2 | -27 | 7.21 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | -47.9 | -48.3 | | | 0.19 | -34.9 | -27 | 7.9 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | -45.7 | -45.9 | | | 0.19 | -35.6 | -27 | 8.6 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -51.0 | -51.6 | -51.1 | | 0.19 | -34.3 | -27 | 7.26 |

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|------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | -47.9 | -48.1 | -47.4 | | 0.19 | -33.8 | -27 | 6.83 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | -45.7 | -45.9 | -44.5 | | 0.19 | -33.4 | -27 | 6.36 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -50.0 | -52.5 | -51.4 | -51.3 | 0.19 | -32.0 | -27 | 5.0 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | -47.9 | -50.8 | -49.8 | -51.2 | 0.19 | -33.5 | -27 | 6.52 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | -47.9 | -48.1 | -47.4 | -47.3 | 0.19 | -33.5 | -27 | 6.45 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | -47.9 | -48.3 | -46.5 | -47.2 | 0.19 | -34.2 | -27 | 7.21 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | -45.7 | -45.9 | | | 0.19 | -35.6 | -27 | 8.6 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | -45.7 | -47.3 | -47.4 | | 0.19 | -34.8 | -27 | 7.77 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | -47.9 | -48.1 | -47.4 | -47.3 | 0.19 | -34.5 | -27 | 7.45 |

Frequency 5240 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|--|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -45.4 | | | | 0.35 | -38.1 | -27 | 11.05 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -47.0 | -48.2 | | | 0.35 | -37.2 | -27 | 10.2 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -50.0 | -51.3 | -51.0 | | 0.35 | -38.6 | -27 | 11.61 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -53.8 | -54.7 | -55.3 | -51.9 | 0.35 | -40.4 | -27 | 13.36 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -47.0 | -48.2 | | | 0.35 | -34.2 | -27 | 7.2 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -50.0 | -51.3 | -51.0 | | 0.35 | -33.6 | -27 | 6.61 |

| | | | | | | | | | | |
|-------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -53.8 | -54.7 | -55.3 | -51.9 | 0.35 | -34.4 | -27 | 7.36 |
| HT/VHT20, M0 to M7 | 1 | 7 | -45.8 | | | | 0.24 | -38.6 | -27 | 11.56 |
| HT/VHT20, M0 to M7 | 2 | 7 | -48.0 | -47.8 | | | 0.24 | -37.7 | -27 | 10.65 |
| HT/VHT20, M8 to M15 | 2 | 7 | -45.8 | -46.1 | | | 0.24 | -35.7 | -27 | 8.7 |
| HT/VHT20, M0 to M7 | 3 | 7 | -50.7 | -51.4 | -50.0 | | 0.24 | -38.7 | -27 | 11.65 |
| HT/VHT20, M8 to M15 | 3 | 7 | -48.0 | -47.8 | -46.7 | | 0.24 | -35.5 | -27 | 8.45 |
| HT/VHT20, M16 to M23 | 3 | 7 | -48.0 | -47.7 | -46.6 | | 0.24 | -35.4 | -27 | 8.38 |
| HT/VHT20, M0 to M7 | 4 | 7 | -53.5 | -51.7 | -51.7 | -51.9 | 0.24 | -38.9 | -27 | 11.88 |
| HT/VHT20, M8 to M15 | 4 | 7 | -50.9 | -52.1 | -50.9 | -52.0 | 0.24 | -38.2 | -27 | 11.18 |
| HT/VHT20, M16 to M23 | 4 | 7 | -48.5 | -49.1 | -47.5 | -47.7 | 0.24 | -34.9 | -27 | 7.9 |
| HT/VHT20, M24 to M31 | 4 | 7 | -48.0 | -47.8 | -46.7 | -46.7 | 0.24 | -34.0 | -27 | 7.0 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -48.0 | -47.8 | | | 0.24 | -34.7 | -27 | 7.65 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -45.8 | -46.1 | | | 0.24 | -35.7 | -27 | 8.7 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -50.7 | -51.4 | -50.0 | | 0.24 | -33.7 | -27 | 6.65 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -48.0 | -47.8 | -46.7 | | 0.24 | -33.5 | -27 | 6.45 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -48.0 | -47.7 | -46.6 | | 0.24 | -35.4 | -27 | 8.38 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -53.5 | -51.7 | -51.7 | -51.9 | 0.24 | -32.9 | -27 | 5.88 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -50.9 | -52.1 | -50.9 | -52.0 | 0.24 | -35.2 | -27 | 8.18 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -48.5 | -49.1 | -47.5 | -47.7 | 0.24 | -33.9 | -27 | 6.9 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -48.0 | -47.8 | -46.7 | -46.7 | 0.24 | -34.0 | -27 | 7.0 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -45.8 | -46.1 | | | 0.24 | -35.7 | -27 | 8.7 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -48.0 | -47.8 | -46.7 | | 0.24 | -35.5 | -27 | 8.45 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -50.9 | -52.1 | -50.9 | -52.0 | 0.24 | -38.2 | -27 | 11.18 |
| HE20, M0 to M9 1ss | 1 | 7 | -45.4 | | | | 0.19 | -38.2 | -27 | 11.21 |
| HE20, M0 to M9 1ss | 2 | 7 | -48.0 | -46.5 | | | 0.19 | -37.0 | -27 | 9.99 |
| HE20, M0 to M9 2ss | 2 | 7 | -45.4 | -45.3 | | | 0.19 | -35.2 | -27 | 8.15 |
| HE20, M0 to M9 1ss | 3 | 7 | -50.8 | -51.5 | -51.2 | | 0.19 | -39.2 | -27 | 12.2 |
| HE20, M0 to M9 2ss | 3 | 7 | -48.0 | -46.5 | -46.5 | | 0.19 | -35.0 | -27 | 7.99 |
| HE20, M0 to M9 3ss | 3 | 7 | -46.9 | -44.9 | -46.7 | | 0.19 | -34.1 | -27 | 7.11 |
| HE20, M0 to M9 1ss | 4 | 7 | -52.2 | -52.2 | -50.8 | -51.7 | 0.19 | -38.5 | -27 | 11.48 |
| HE20, M0 to M9 2ss | 4 | 7 | -50.8 | -50.7 | -50.5 | -51.4 | 0.19 | -37.6 | -27 | 10.63 |
| HE20, M0 to M9 3ss | 4 | 7 | -47.7 | -49.1 | -47.6 | -47.2 | 0.19 | -34.6 | -27 | 7.64 |

| | | | | | | | | | | |
|---------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|-------|
| HE20, M0 to M9 4ss | 4 | 7 | -48.0 | -46.5 | -46.5 | -48.0 | 0.19 | -34.0 | -27 | 6.98 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -48.0 | -46.5 | | | 0.19 | -34.0 | -27 | 6.99 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -45.4 | -45.3 | | | 0.19 | -35.2 | -27 | 8.15 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -50.8 | -51.5 | -51.2 | | 0.19 | -34.2 | -27 | 7.2 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -48.0 | -46.5 | -46.5 | | 0.19 | -33.0 | -27 | 5.99 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -46.9 | -44.9 | -46.7 | | 0.19 | -34.1 | -27 | 7.11 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -52.2 | -52.2 | -50.8 | -51.7 | 0.19 | -32.5 | -27 | 5.48 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -50.8 | -50.7 | -50.5 | -51.4 | 0.19 | -34.6 | -27 | 7.63 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -47.7 | -49.1 | -47.6 | -47.2 | 0.19 | -33.6 | -27 | 6.64 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -48.0 | -46.5 | -46.5 | -48.0 | 0.19 | -34.0 | -27 | 6.98 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -45.4 | -45.3 | | | 0.19 | -35.2 | -27 | 8.15 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -48.0 | -46.5 | -46.5 | | 0.19 | -35.0 | -27 | 7.99 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -50.8 | -50.7 | -50.5 | -51.4 | 0.19 | -37.6 | -27 | 10.63 |

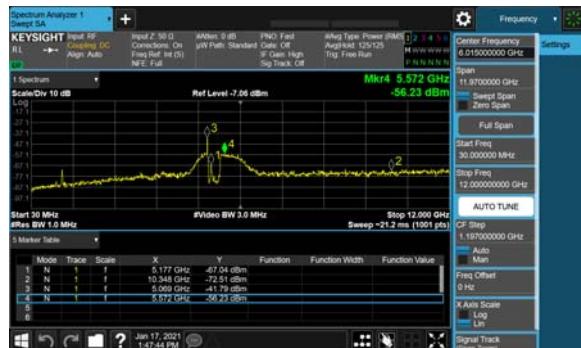
Frequency 5250 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dB) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Duty Cycle (dB) | Total Conducted Spur (dBm) | Limit (dB) | Margin (dB) |
|---------------------------|----------|------------------------------|----------------------------|----------------------------|-----------------|----------------------------|------------|-------------|
| Non HT80+80, 6 to 54 Mbps | 1 | 7 | -47.5 | | 0.4 | -40.1 | -27 | 13.1 |
| Non HT80+80, 6 to 54 Mbps | 2 | 7 | -52.4 | -53.7 | 0.4 | -42.6 | -27 | 15.59 |

| | | | | | | | | |
|-------------------------------------|---|----|-------|-------|-----|-------|-----|-------|
| VHT80+80, M0 to M9 1ss | 1 | 7 | -45.9 | | 0.5 | -38.4 | -27 | 11.4 |
| VHT80+80, M0 to M9 1ss | 2 | 7 | -49.4 | -53.1 | 0.5 | -40.4 | -27 | 13.36 |
| VHT80+80, M0 to M9 2ss | 2 | 7 | -49.4 | -53.1 | 0.5 | -40.4 | -27 | 13.36 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -53.2 | -56.5 | 0.5 | -41.0 | -27 | 14.03 |
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -49.4 | -53.1 | 0.5 | -40.4 | -27 | 13.36 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | 7 | -49.4 | -53.1 | 0.5 | -40.4 | -27 | 13.36 |
| HE80+80, M0 to M9 1ss | 1 | 7 | -47.9 | | 0.3 | -40.6 | -27 | 13.6 |
| HE80+80, M0 to M9 1ss | 2 | 7 | -48.6 | -53.2 | 0.3 | -40.0 | -27 | 13.01 |
| HE80+80, M0 to M9 2ss | 2 | 7 | -48.6 | -53.2 | 0.3 | -40.0 | -27 | 13.01 |
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -56.9 | -56.3 | 0.3 | -43.3 | -27 | 16.28 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -48.6 | -53.2 | 0.3 | -40.0 | -27 | 13.01 |
| HE80+80 STBC, M0 to M9 1ss | 2 | 7 | -48.6 | -53.2 | 0.3 | -40.0 | -27 | 13.01 |

Data Screenshots

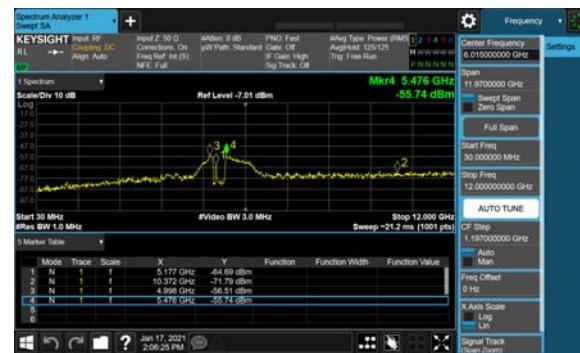
5190 MHz: HT/VHT40 Beam Forming, M0 to M7



Antenna A



Antenna B



5190 MHz: HT/VHT40 Beam Forming, M0 to M7



Antenna A



Antenna B



Antenna C

5190 MHz: HT/VHT40, M0 to M7



Antenna A



Antenna B



Antenna C

A.6 Conducted Band Edge

Conducted Band Edge Test Requirement

15.407(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Use formula below to substitute conducted measurements in place of radiated measurements

$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77, \text{ where } E = \text{field strength and } d = 3 \text{ meter}$$

- 1) Average Plot, Limit= -41.25 dBm eirp
- 2) Peak plot, Limit = -21.25 dBm eirp

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

2. Unwanted Emissions that fall Outside of the Restricted Bands

- a) For all measurements, follow the requirements in II.G.3. “*General Requirements for Unwanted Emissions Measurements.*”
- b) At frequencies below 1000 MHz, use the procedure described in II.G.4. “*Procedure for Unwanted Emissions Measurements Below 1000 MHz.*”
- c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in II.G.5., “*Procedure for Unwanted Emissions Measurements Above 1000 MHz.*”
- (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³

Conducted Band Edge Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Ref. ANSI C63.10: 2013

| Conducted Spurious Emissions |
|--|
| Test Procedure |
| 1. Connect the antenna port(s) to the spectrum analyzer input. |
| 2. Place the radio in continuous transmit mode |
| 3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer). |
| 4. Use the peak marker function to determine the maximum spurs amplitude level. |
| 5. The “measure-and-sum technique” is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total |

emission level from the device. Summing is performed in linear power units. The worst case output is recorded. (see ANSI C63.10:2013 section 14.3.2.2)

6. Capture graphs and record pertinent measurement data.

Ref. ANSI C63.10: 2013 section 12.7.6 (Peak) and 12.7.7.2 (Average)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Sec. 5 (Peak), Sec. 6 (Average Method AD)

Conducted Spurious Emissions

Test parameters

| Peak | Average |
|-------------------|------------------|
| RBW = 1 MHz | RBW = 1 MHz |
| VBW \geq 3 MHz | VBW \geq 3 MHz |
| Sweep = Auto | Sweep = Auto |
| Detector = Peak | Detector = RMS |
| Trace = Max Hold. | Power Averaging |

Tested By :

Said Abdelwafi, Julian Land

Date of testing:

12-JAN-2021 through 19-JAN-2021

08-MAR-2021 through 12-MAR-2021

08-APR-2021 through 09-APR-2021

Test Result : PASS

Test Equipment

See Appendix C for list of test equipment

Conducted Bandedge Average

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Duty Cycle (dB) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------|-------------------------------|------------|-------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -49.9 | | | | 0.35 | -42.6 | -41 | 1.3 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -56.3 | -56.6 | | | 0.35 | -46.1 | -41 | 4.84 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -58.7 | -60.0 | -58.6 | | 0.35 | -46.9 | -41 | 5.68 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -60.4 | -64.1 | -64.0 | -63.1 | 0.35 | -49.2 | -41 | 8.0 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -56.3 | -56.6 | | | 0.35 | -43.1 | -41 | 1.84 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -58.7 | -60.0 | -58.6 | | 0.35 | -41.9 | -41 | 0.68 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -60.4 | -64.1 | -64.0 | -63.1 | 0.35 | -43.2 | -41 | 2.0 |
| HT/VHT20, M0 to M7 | 1 | 7 | -49.8 | | | | 0.24 | -42.6 | -41 | 1.31 |
| HT/VHT20, M0 to M7 | 2 | 7 | -52.7 | -53.9 | | | 0.24 | -43.0 | -41 | 1.76 |
| HT/VHT20, M8 to M15 | 2 | 7 | -52.1 | -52.2 | | | 0.24 | -41.9 | -41 | 0.65 |
| HT/VHT20, M0 to M7 | 3 | 7 | -57.8 | -59.0 | -58.9 | | 0.19 | -46.6 | -41 | 5.32 |
| HT/VHT20, M8 to M15 | 3 | 7 | -55.1 | -56.8 | -55.7 | | 0.24 | -43.8 | -41 | 2.55 |
| HT/VHT20, M16 to M23 | 3 | 7 | -55.1 | -56.8 | -55.7 | | 0.24 | -43.8 | -41 | 2.55 |
| HT/VHT20, M0 to M7 | 4 | 7 | -61.9 | -61.1 | -59.4 | -59.7 | 0.24 | -47.2 | -41 | 5.9 |
| HT/VHT20, M8 to M15 | 4 | 7 | -57.0 | -57.5 | -57.3 | -57.4 | 0.24 | -44.0 | -41 | 2.79 |
| HT/VHT20, M16 to M23 | 4 | 7 | -55.1 | -56.8 | -55.7 | -55.3 | 0.24 | -42.4 | -41 | 1.17 |
| HT/VHT20, M24 to M31 | 4 | 7 | -55.1 | -56.8 | -55.7 | -55.3 | 0.24 | -42.4 | -41 | 1.17 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -55.1 | -56.8 | | | 0.24 | -42.6 | -41 | 1.37 |

| | | | | | | | | | | |
|--|----------|----------|--------------|--------------|-------|-------|-------------|--------------|------------|------------|
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -52.1 | -52.2 | | | 0.24 | -41.9 | -41 | 0.65 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -57.8 | -59.0 | -58.9 | | 0.19 | -41.6 | -41 | 0.32 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -55.1 | -56.8 | -55.7 | | 0.24 | -41.8 | -41 | 0.55 |
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -55.1 | -56.8 | -55.7 | | 0.24 | -43.8 | -41 | 2.55 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -61.2 | -63.3 | -63.5 | -63.4 | 0.24 | -43.5 | -41 | 2.23 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -57.8 | -59.0 | -58.9 | -58.6 | 0.19 | -42.3 | -41 | 1.09 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -55.1 | -56.8 | -55.7 | -55.3 | 0.24 | -41.4 | -41 | 0.17 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -55.1 | -56.8 | -55.7 | -55.3 | 0.24 | -42.4 | -41 | 1.17 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -52.1 | -52.2 | | | 0.24 | -41.9 | -41 | 0.65 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -55.1 | -56.8 | -55.7 | | 0.24 | -43.8 | -41 | 2.55 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -57.0 | -57.5 | -57.3 | -57.4 | 0.24 | -44.0 | -41 | 2.79 |
| HE20, M0 to M9 1ss | 1 | 7 | -50.6 | | | | 0.19 | -43.4 | -41 | 2.16 |
| HE20, M0 to M9 1ss | 2 | 7 | -52.4 | -53.8 | | | 0.19 | -42.8 | -41 | 1.6 |
| HE20, M0 to M9 2ss | 2 | 7 | -50.6 | -52.5 | | | 0.19 | -41.3 | -41 | 0.0 |
| HE20, M0 to M9 1ss | 3 | 7 | -56.3 | -58.4 | -57.7 | | 0.19 | -45.4 | -41 | 4.17 |
| HE20, M0 to M9 2ss | 3 | 7 | -54.2 | -54.2 | -53.5 | | 0.19 | -42.0 | -41 | 0.75 |
| HE20, M0 to M9 3ss | 3 | 7 | -54.2 | -54.2 | -53.5 | | 0.19 | -42.0 | -41 | 0.75 |
| HE20, M0 to M9 1ss | 4 | 7 | -58.4 | -59.6 | -59.5 | -59.9 | 0.19 | -46.1 | -41 | 4.85 |
| HE20, M0 to M9 2ss | 4 | 7 | -54.9 | -57.8 | -56.7 | -57.3 | 0.19 | -43.3 | -41 | 2.07 |
| HE20, M0 to M9 3ss | 4 | 7 | -54.9 | -55.7 | -55.4 | -56.7 | 0.19 | -42.4 | -41 | 1.17 |
| HE20, M0 to M9 4ss | 4 | 7 | -54.9 | -55.7 | -55.4 | -56.7 | 0.19 | -42.4 | -41 | 1.17 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -54.9 | -55.7 | | | 0.19 | -42.1 | -41 | 0.84 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -50.6 | -52.5 | | | 0.19 | -41.3 | -41 | 0.0 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -58.4 | -59.6 | -59.5 | | 0.19 | -42.2 | -41 | 0.92 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -54.9 | -55.7 | -55.4 | | 0.19 | -41.4 | -41 | 0.11 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -54.2 | -54.2 | -53.5 | | 0.19 | -42.0 | -41 | 0.75 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -61.4 | -63.9 | -63.4 | -64.0 | 0.19 | -43.8 | -41 | 2.58 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -56.3 | -58.4 | -57.7 | -58.3 | 0.19 | -41.4 | -41 | 0.13 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -54.9 | -55.7 | -55.4 | -56.7 | 0.19 | -41.4 | -41 | 0.17 |

| | | | | | | | | | | |
|------------------------------------|----------|----------|--------------|--------------|-------|-------|-------------|--------------|------------|------------|
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -54.9 | -55.7 | -55.4 | -56.7 | 0.19 | -42.4 | -41 | 1.17 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -50.6 | -52.5 | | | 0.19 | -41.3 | -41 | 0.0 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -54.2 | -54.2 | -53.5 | | 0.19 | -42.0 | -41 | 0.75 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -54.9 | -57.8 | -56.7 | -57.3 | 0.19 | -43.3 | -41 | 2.07 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Duty Cycle (dB) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|---------------------------|----------|----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------|----------------------------------|---------------|----------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | -51.2 | | | | 0.36 | -43.8 | -41 | 2.59 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | -51.2 | -52.2 | | | 0.36 | -41.3 | -41 | 0.05 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | -53.6 | -53.4 | -54.5 | | 0.36 | -41.7 | -41 | 0.43 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | -56.6 | -54.1 | -56.0 | -53.8 | 0.35 | -41.6 | -41 | 0.34 |
| HT/VHT40, M0 to M7 | 1 | 7 | -51.0 | | | | 0.28 | -43.7 | -41 | 2.47 |
| HT/VHT40, M0 to M7 | 2 | 7 | -51.0 | -53.2 | | | 0.28 | -41.7 | -41 | 0.42 |
| HT/VHT40, M8 to M15 | 2 | 7 | -51.0 | -53.2 | | | 0.28 | -41.7 | -41 | 0.42 |
| HT/VHT40, M0 to M7 | 3 | 7 | -52.9 | -55.4 | -54.7 | | 0.28 | -42.2 | -41 | 0.9 |
| HT/VHT40, M8 to M15 | 3 | 7 | -52.9 | -55.4 | -54.7 | | 0.28 | -42.2 | -41 | 0.9 |
| HT/VHT40, M16 to M23 | 3 | 7 | -52.9 | -55.4 | -54.7 | | 0.28 | -42.2 | -41 | 0.9 |
| HT/VHT40, M0 to M7 | 4 | 7 | -52.9 | -55.4 | -55.6 | -55.1 | 0.28 | -41.3 | -41 | 0.05 |
| HT/VHT40, M8 to M15 | 4 | 7 | -52.9 | -55.4 | -55.6 | -55.1 | 0.28 | -41.3 | -41 | 0.05 |
| HT/VHT40, M16 to M23 | 4 | 7 | -52.9 | -55.4 | -55.6 | -55.1 | 0.28 | -41.3 | -41 | 0.05 |
| HT/VHT40, M24 to M31 | 4 | 7 | -52.9 | -55.4 | -55.6 | -55.1 | 0.28 | -41.3 | -41 | 0.05 |

| | | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | -54.9 | -57.3 | | | 0.28 | -42.6 | -41 | 1.4 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | -51.0 | -53.2 | | | 0.28 | -41.7 | -41 | 0.42 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | -57.8 | -59.3 | -59.8 | | 0.28 | -41.8 | -41 | 0.58 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | -54.9 | -57.3 | -56.7 | | 0.28 | -42.1 | -41 | 0.88 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | -52.9 | -55.4 | -54.7 | | 0.28 | -42.2 | -41 | 0.9 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -60.0 | -62.0 | -62.5 | -62.4 | 0.28 | -42.3 | -41 | 1.05 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | -57.8 | -59.3 | -59.8 | -59.3 | 0.28 | -42.7 | -41 | 1.43 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | -54.9 | -57.3 | -56.7 | -56.0 | 0.28 | -41.8 | -41 | 0.58 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | -52.9 | -55.4 | -55.6 | -55.1 | 0.28 | -41.3 | -41 | 0.05 |
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | -51.0 | -53.2 | | | 0.28 | -41.7 | -41 | 0.42 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | -52.9 | -55.4 | -54.7 | | 0.28 | -42.2 | -41 | 0.9 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | -52.9 | -55.4 | -55.6 | -55.1 | 0.28 | -41.3 | -41 | 0.05 |
| HE40, M0 to M9 1ss | 1 | 7 | -49.1 | | | | 0.19 | -41.9 | -41 | 0.66 |
| HE40, M0 to M9 1ss | 2 | 7 | -51.3 | -54.4 | | | 0.19 | -42.4 | -41 | 1.13 |
| HE40, M0 to M9 2ss | 2 | 7 | -51.3 | -54.4 | | | 0.19 | -42.4 | -41 | 1.13 |
| HE40, M0 to M9 1ss | 3 | 7 | -52.8 | -55.2 | -56.0 | | 0.19 | -42.5 | -41 | 1.23 |
| HE40, M0 to M9 2ss | 3 | 7 | -52.8 | -55.2 | -56.0 | | 0.19 | -42.5 | -41 | 1.23 |
| HE40, M0 to M9 3ss | 3 | 7 | -52.8 | -55.2 | -56.0 | | 0.19 | -42.5 | -41 | 1.23 |
| HE40, M0 to M9 1ss | 4 | 7 | -53.4 | -56.2 | -55.4 | -55.3 | 0.34 | -41.6 | -41 | 0.33 |
| HE40, M0 to M9 2ss | 4 | 7 | -53.4 | -56.2 | -55.4 | -55.3 | 0.34 | -41.6 | -41 | 0.33 |
| HE40, M0 to M9 3ss | 4 | 7 | -53.4 | -56.2 | -55.4 | -55.3 | 0.34 | -41.6 | -41 | 0.33 |
| HE40, M0 to M9 4ss | 4 | 7 | -53.4 | -56.2 | -55.4 | -55.3 | 0.34 | -41.6 | -41 | 0.33 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | -53.8 | -56.7 | | | 0.19 | -41.8 | -41 | 0.56 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | -51.3 | -54.4 | | | 0.19 | -42.4 | -41 | 1.13 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -57.6 | -59.7 | -60.2 | | 0.19 | -42.1 | -41 | 0.8 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | -53.8 | -56.7 | -56.8 | | 0.19 | -41.6 | -41 | 0.32 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | -52.8 | -55.2 | -56.0 | | 0.19 | -42.5 | -41 | 1.23 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -59.1 | -61.7 | -61.1 | -61.3 | 0.19 | -41.5 | -41 | 0.22 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | -55.9 | -58.0 | -58.6 | -58.0 | 0.19 | -41.3 | -41 | 0.04 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|------|
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | -53.8 | -56.7 | -56.8 | -56.4 | 0.19 | -41.5 | -41 | 0.27 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | -53.4 | -56.2 | -55.4 | -55.3 | 0.34 | -41.6 | -41 | 0.33 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | -51.3 | -54.4 | | | 0.19 | -42.4 | -41 | 1.13 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | -52.8 | -55.2 | -56.0 | | 0.19 | -42.5 | -41 | 1.23 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | -53.4 | -56.2 | -55.4 | -55.3 | 0.34 | -41.6 | -41 | 0.33 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Duty Cycle (dB) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------|----------------------------------|---------------|----------------|
| Non HT80, 6 to 54 Mbps | 1 | 7 | -50.4 | | | | 0.36 | -43.0 | -41 | 1.79 |
| Non HT80, 6 to 54 Mbps | 2 | 7 | -52.8 | -52.1 | | | 0.36 | -42.1 | -41 | 0.82 |
| Non HT80, 6 to 54 Mbps | 3 | 7 | -54.8 | -54.2 | -57.4 | | 0.36 | -43.1 | -41 | 1.88 |
| Non HT80, 6 to 54 Mbps | 4 | 7 | -58.3 | -58.4 | -57.3 | -56.5 | 0.36 | -44.2 | -41 | 2.93 |
| VHT80, M0 to M9 1ss | 1 | 7 | -49.6 | | | | 0.46 | -42.1 | -41 | 0.89 |
| VHT80, M0 to M9 1ss | 2 | 7 | -52.8 | -55.8 | | | 0.46 | -43.6 | -41 | 2.33 |
| VHT80, M0 to M9 2ss | 2 | 7 | -52.8 | -55.8 | | | 0.46 | -43.6 | -41 | 2.33 |
| VHT80, M0 to M9 1ss | 3 | 7 | -52.8 | -55.8 | -54.6 | | 0.46 | -42.0 | -41 | 0.74 |
| VHT80, M0 to M9 2ss | 3 | 7 | -52.8 | -55.8 | -54.6 | | 0.46 | -42.0 | -41 | 0.74 |
| VHT80, M0 to M9 3ss | 3 | 7 | -52.8 | -55.8 | -54.6 | | 0.46 | -42.0 | -41 | 0.74 |
| VHT80, M0 to M9 1ss | 4 | 7 | -53.7 | -56.0 | -54.8 | -55.4 | 0.46 | -41.4 | -41 | 0.16 |
| VHT80, M0 to M9 2ss | 4 | 7 | -53.7 | -56.0 | -54.8 | -55.4 | 0.46 | -41.4 | -41 | 0.16 |
| VHT80, M0 to M9 3ss | 4 | 7 | -53.7 | -56.0 | -54.8 | -55.4 | 0.46 | -41.4 | -41 | 0.16 |
| VHT80, M0 to M9 4ss | 4 | 7 | -53.7 | -56.0 | -54.8 | -55.4 | 0.46 | -41.4 | -41 | 0.16 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | 10 | -54.3 | -57.1 | | | 0.46 | -42.0 | -41 | 0.76 |

| | | | | | | | | | | |
|-------------------------------------|---|----|-------|-------|-------|-------|------|-------|-----|------|
| VHT80 Beam Forming, M0 to M9 2ss | 2 | 7 | -52.8 | -55.8 | | | 0.46 | -43.6 | -41 | 2.33 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | 12 | -57.4 | -60.5 | -59.8 | | 0.46 | -41.8 | -41 | 0.54 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | 9 | -54.3 | -57.1 | -56.0 | | 0.46 | -41.4 | -41 | 0.17 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | 7 | -52.8 | -55.8 | -54.6 | | 0.46 | -42.0 | -41 | 0.74 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | 13 | -59.9 | -61.5 | -61.3 | -61.5 | 0.46 | -41.5 | -41 | 0.27 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | 10 | -57.4 | -60.5 | -59.8 | -61.0 | 0.46 | -43.0 | -41 | 1.71 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | 8 | -54.3 | -57.1 | -56.0 | -56.2 | 0.46 | -41.3 | -41 | 0.05 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | 7 | -53.7 | -56.0 | -54.8 | -55.4 | 0.46 | -41.4 | -41 | 0.16 |
| VHT80 STBC, M0 to M9 1ss | 2 | 7 | -52.8 | -55.8 | | | 0.46 | -43.6 | -41 | 2.33 |
| VHT80 STBC, M0 to M9 1ss | 3 | 7 | -52.8 | -55.8 | -54.6 | | 0.46 | -42.0 | -41 | 0.74 |
| VHT80 STBC, M0 to M9 1ss | 4 | 7 | -53.7 | -56.0 | -54.8 | -55.4 | 0.46 | -41.4 | -41 | 0.16 |
| HE80, M0 to M9 1ss | 1 | 7 | -49.8 | | | | 0.19 | -42.6 | -41 | 1.36 |
| HE80, M0 to M9 1ss | 2 | 7 | -52.1 | -55.5 | | | 0.19 | -43.3 | -41 | 2.02 |
| HE80, M0 to M9 2ss | 2 | 7 | -52.1 | -55.5 | | | 0.19 | -43.3 | -41 | 2.02 |
| HE80, M0 to M9 1ss | 3 | 7 | -52.1 | -55.5 | -53.7 | | 0.19 | -41.6 | -41 | 0.33 |
| HE80, M0 to M9 2ss | 3 | 7 | -52.1 | -55.5 | -53.7 | | 0.19 | -41.6 | -41 | 0.33 |
| HE80, M0 to M9 3ss | 3 | 7 | -52.1 | -55.5 | -53.7 | | 0.19 | -41.6 | -41 | 0.33 |
| HE80, M0 to M9 1ss | 4 | 7 | -53.8 | -57.0 | -55.5 | -55.4 | 0.19 | -42.1 | -41 | 0.81 |
| HE80, M0 to M9 2ss | 4 | 7 | -53.8 | -57.0 | -55.5 | -55.4 | 0.19 | -42.1 | -41 | 0.81 |
| HE80, M0 to M9 3ss | 4 | 7 | -53.8 | -57.0 | -55.5 | -55.4 | 0.19 | -42.1 | -41 | 0.81 |
| HE80, M0 to M9 4ss | 4 | 7 | -53.8 | -57.0 | -55.5 | -55.4 | 0.19 | -42.1 | -41 | 0.81 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | 10 | -53.8 | -57.0 | | | 0.19 | -41.9 | -41 | 0.66 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | 7 | -52.1 | -55.5 | | | 0.19 | -43.3 | -41 | 2.02 |
| HE80 Beam Forming, M0 to M9 1ss | 3 | 12 | -58.6 | -60.8 | -60.5 | | 0.19 | -42.9 | -41 | 1.64 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | 9 | -53.8 | -57.0 | -55.5 | | 0.19 | -41.3 | -41 | 0.02 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | 7 | -52.1 | -55.5 | -53.7 | | 0.19 | -41.6 | -41 | 0.33 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | 13 | -60.2 | -62.0 | -61.7 | -62.4 | 0.19 | -42.3 | -41 | 1.03 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | 10 | -56.4 | -59.3 | -59.6 | -59.6 | 0.19 | -42.3 | -41 | 1.03 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | 8 | -54.0 | -57.8 | -56.6 | -56.1 | 0.19 | -41.7 | -41 | 0.44 |

| | | | | | | | | | | |
|------------------------------------|---|---|-------|-------|-------|-------|------|-------|-----|------|
| HE80 Beam Forming, M0 to M9 4ss | 4 | 7 | -53.8 | -57.0 | -55.5 | -55.4 | 0.19 | -42.1 | -41 | 0.81 |
| HE80 STBC, M0 to M9 1ss | 2 | 7 | -52.1 | -55.5 | | | 0.19 | -43.3 | -41 | 2.02 |
| HE80 STBC, M0 to M9 1ss | 3 | 7 | -52.1 | -55.5 | -53.7 | | 0.19 | -41.6 | -41 | 0.33 |
| HE80 STBC, M0 to M9 1ss | 4 | 7 | -53.8 | -57.0 | -55.5 | -55.4 | 0.19 | -42.1 | -41 | 0.81 |

Frequency 5250 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Duty Cycle (dB) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|--|----------|----------------------------------|-------------------------------|-------------------------------|--------------------|----------------------------------|---------------|----------------|
| Non HT80+80, 6 to 54 Mbps | 1 | 7 | -50.2 | | 0.4 | -42.8 | -41 | 1.55 |
| Non HT80+80, 6 to 54 Mbps | 2 | 7 | -55.8 | -51.5 | 0.4 | -42.7 | -41 | 1.48 |
| VHT80+80, M0 to M9 1ss | 1 | 7 | -49.0 | | 0.5 | -41.5 | -41 | 0.25 |
| VHT80+80, M0 to M9 1ss | 2 | 7 | -53.3 | -51.6 | 0.5 | -41.9 | -41 | 0.61 |
| VHT80+80, M0 to M9 2ss | 2 | 7 | -53.3 | -51.6 | 0.5 | -41.9 | -41 | 0.61 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -58.1 | -56.0 | 0.5 | -43.4 | -41 | 2.16 |
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -53.3 | -51.6 | 0.5 | -41.9 | -41 | 0.61 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | 7 | -53.3 | -51.6 | 0.5 | -41.9 | -41 | 0.61 |
| HE80+80, M0 to M9 1ss | 1 | 7 | -49.6 | | 0.3 | -42.3 | -41 | 1.05 |
| HE80+80, M0 to M9 1ss | 2 | 7 | -52.4 | -51.1 | 0.3 | -41.4 | -41 | 0.14 |
| HE80+80, M0 to M9 2ss | 2 | 7 | -52.4 | -51.1 | 0.3 | -41.4 | -41 | 0.14 |

| | | | | | | | | |
|------------------------------------|---|----|-------|-------|-----|-------|-----|------|
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -57.1 | -55.0 | 0.3 | -42.6 | -41 | 1.36 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -52.4 | -51.1 | 0.3 | -41.4 | -41 | 0.14 |
| HE80+80 STBC, M0 to M9 1ss | 2 | 7 | -52.4 | -51.1 | 0.3 | -41.4 | -41 | 0.14 |

Data Screenshots

5180 MHz: HE20, M0 to M9 2ss



Antenna A



Antenna B

5180 MHz: HE20 Beam Forming, M0 to M9 2ss



Antenna A



Antenna B

5180 MHz: HE20 STBC, M0 to M9 2ss



Antenna A



Antenna B

Conducted Bandedge Peak

Frequency 5180 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|--|-----------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|-------------------|--------------------|
| Non HT20, 6 to 54 Mbps | 1 | 7 | -40.1 | | | | -32.8 | -27 | 5.75 |
| Non HT20, 6 to 54 Mbps | 2 | 7 | -43.0 | -43.1 | | | -32.7 | -27 | 5.69 |
| Non HT20, 6 to 54 Mbps | 3 | 7 | -44.2 | -45.1 | -44.5 | | -32.5 | -27 | 5.46 |
| Non HT20, 6 to 54 Mbps | 4 | 7 | -47.1 | -46.4 | -48.1 | -47.1 | -33.8 | -27 | 6.76 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 10 | -43.0 | -43.1 | | | -29.7 | -27 | 2.69 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 12 | -44.2 | -45.1 | -44.5 | | -27.5 | -27 | 0.46 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 13 | -47.1 | -46.4 | -48.1 | -47.1 | -27.8 | -27 | 0.76 |
| HT/VHT20, M0 to M7 | 1 | 7 | -37.2 | | | | -30.0 | -27 | 2.96 |
| HT/VHT20, M0 to M7 | 2 | 7 | -41.2 | -39.6 | | | -30.1 | -27 | 3.08 |
| HT/VHT20, M8 to M15 | 2 | 7 | -38.9 | -38.9 | | | -28.7 | -27 | 1.65 |
| HT/VHT20, M0 to M7 | 3 | 7 | -43.0 | -47.6 | -48.2 | | -33.6 | -27 | 6.64 |
| HT/VHT20, M8 to M15 | 3 | 7 | -45.4 | -43.3 | -42.4 | | -31.5 | -27 | 4.52 |
| HT/VHT20, M16 to M23 | 3 | 7 | -45.4 | -43.3 | -42.4 | | -31.5 | -27 | 4.52 |
| HT/VHT20, M0 to M7 | 4 | 7 | -50.3 | -47.9 | -49.4 | -49.7 | -36.0 | -27 | 8.97 |
| HT/VHT20, M8 to M15 | 4 | 7 | -44.8 | -45.3 | -46.3 | -45.2 | -32.1 | -27 | 5.11 |
| HT/VHT20, M16 to M23 | 4 | 7 | -45.4 | -43.3 | -42.4 | -42.8 | -30.1 | -27 | 3.08 |
| HT/VHT20, M24 to M31 | 4 | 7 | -45.4 | -43.3 | -42.4 | -42.8 | -30.1 | -27 | 3.08 |
| HT/VHT20 Beam Forming, M0 to M7 | 2 | 10 | -45.4 | -43.3 | | | -31.0 | -27 | 3.98 |
| HT/VHT20 Beam Forming, M8 to M15 | 2 | 7 | -38.9 | -38.9 | | | -28.7 | -27 | 1.65 |
| HT/VHT20 Beam Forming, M0 to M7 | 3 | 12 | -43.0 | -47.6 | -48.2 | | -28.6 | -27 | 1.64 |
| HT/VHT20 Beam Forming, M8 to M15 | 3 | 9 | -45.4 | -43.3 | -42.4 | | -29.5 | -27 | 2.52 |

| | | | | | | | | | |
|-----------------------------------|---|----|-------|-------|-------|-------|-------|-----|------|
| HT/VHT20 Beam Forming, M16 to M23 | 3 | 7 | -45.4 | -43.3 | -42.4 | | -31.5 | -27 | 4.52 |
| HT/VHT20 Beam Forming, M0 to M7 | 4 | 13 | -47.3 | -46.9 | -52.4 | -47.3 | -28.7 | -27 | 1.74 |
| HT/VHT20 Beam Forming, M8 to M15 | 4 | 10 | -43.0 | -47.6 | -48.2 | -47.8 | -29.8 | -27 | 2.85 |
| HT/VHT20 Beam Forming, M16 to M23 | 4 | 8 | -45.4 | -43.3 | -42.4 | -42.8 | -29.1 | -27 | 2.08 |
| HT/VHT20 Beam Forming, M24 to M31 | 4 | 7 | -45.4 | -43.3 | -42.4 | -42.8 | -30.1 | -27 | 3.08 |
| HT/VHT20 STBC, M0 to M7 | 2 | 7 | -38.9 | -38.9 | | | -28.7 | -27 | 1.65 |
| HT/VHT20 STBC, M0 to M7 | 3 | 7 | -45.4 | -43.3 | -42.4 | | -31.5 | -27 | 4.52 |
| HT/VHT20 STBC, M0 to M7 | 4 | 7 | -44.8 | -45.3 | -46.3 | -45.2 | -32.1 | -27 | 5.11 |
| HE20, M0 to M9 1ss | 1 | 7 | -36.9 | | | | -29.7 | -27 | 2.71 |
| HE20, M0 to M9 1ss | 2 | 7 | -38.3 | -39.3 | | | -28.6 | -27 | 1.58 |
| HE20, M0 to M9 2ss | 2 | 7 | -36.9 | -41.4 | | | -28.4 | -27 | 1.4 |
| HE20, M0 to M9 1ss | 3 | 7 | -43.5 | -48.1 | -47.4 | | -33.9 | -27 | 6.87 |
| HE20, M0 to M9 2ss | 3 | 7 | -43.4 | -40.4 | -39.0 | | -28.6 | -27 | 1.62 |
| HE20, M0 to M9 3ss | 3 | 7 | -43.4 | -40.4 | -39.0 | | -28.6 | -27 | 1.62 |
| HE20, M0 to M9 1ss | 4 | 7 | -44.5 | -45.2 | -44.9 | -49.3 | -32.4 | -27 | 5.41 |
| HE20, M0 to M9 2ss | 4 | 7 | -42.3 | -44.3 | -44.7 | -41.8 | -29.9 | -27 | 2.89 |
| HE20, M0 to M9 3ss | 4 | 7 | -41.0 | -45.0 | -43.9 | -43.1 | -29.8 | -27 | 2.79 |
| HE20, M0 to M9 4ss | 4 | 7 | -41.0 | -45.0 | -43.9 | -43.1 | -29.8 | -27 | 2.79 |
| HE20 Beam Forming, M0 to M9 1ss | 2 | 10 | -41.0 | -45.0 | | | -29.4 | -27 | 2.36 |
| HE20 Beam Forming, M0 to M9 2ss | 2 | 7 | -36.9 | -41.4 | | | -28.4 | -27 | 1.4 |
| HE20 Beam Forming, M0 to M9 1ss | 3 | 12 | -44.5 | -45.2 | -44.9 | | -27.9 | -27 | 0.9 |
| HE20 Beam Forming, M0 to M9 2ss | 3 | 9 | -41.0 | -45.0 | -43.9 | | -29.0 | -27 | 2.0 |
| HE20 Beam Forming, M0 to M9 3ss | 3 | 7 | -43.4 | -40.4 | -39.0 | | -28.6 | -27 | 1.62 |
| HE20 Beam Forming, M0 to M9 1ss | 4 | 13 | -47.0 | -46.7 | -52.0 | -47.0 | -28.5 | -27 | 1.51 |
| HE20 Beam Forming, M0 to M9 2ss | 4 | 10 | -43.5 | -48.1 | -47.4 | -48.3 | -30.1 | -27 | 3.12 |
| HE20 Beam Forming, M0 to M9 3ss | 4 | 8 | -41.0 | -45.0 | -43.9 | -43.1 | -28.8 | -27 | 1.79 |
| HE20 Beam Forming, M0 to M9 4ss | 4 | 7 | -41.0 | -45.0 | -43.9 | -43.1 | -29.8 | -27 | 2.79 |
| HE20 STBC, M0 to M9 2ss | 2 | 7 | -36.9 | -41.4 | | | -28.4 | -27 | 1.4 |
| HE20 STBC, M0 to M9 2ss | 3 | 7 | -43.4 | -40.4 | -39.0 | | -28.6 | -27 | 1.62 |
| HE20 STBC, M0 to M9 2ss | 4 | 7 | -42.3 | -44.3 | -44.7 | -41.8 | -29.9 | -27 | 2.89 |

Frequency 5190 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|-----------------------------------|-----------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|-------------------|--------------------|
| Non HT40, 6 to 54 Mbps | 1 | 7 | -36.5 | | | | -29.1 | -27 | 2.14 |
| Non HT40, 6 to 54 Mbps | 2 | 7 | -36.5 | -40.8 | | | -27.8 | -27 | 0.77 |
| Non HT40, 6 to 54 Mbps | 3 | 7 | -42.6 | -41.7 | -44.5 | | -30.7 | -27 | 3.65 |
| Non HT40, 6 to 54 Mbps | 4 | 7 | -37.3 | -44.7 | -44.5 | -44.0 | -27.9 | -27 | 0.95 |
| HT/VHT40, M0 to M7 | 1 | 7 | -40.7 | | | | -33.4 | -27 | 6.42 |
| HT/VHT40, M0 to M7 | 2 | 7 | -40.7 | -42.6 | | | -31.3 | -27 | 4.26 |
| HT/VHT40, M8 to M15 | 2 | 7 | -40.7 | -42.6 | | | -31.3 | -27 | 4.26 |
| HT/VHT40, M0 to M7 | 3 | 7 | -42.4 | -43.7 | -45.1 | | -31.5 | -27 | 4.54 |
| HT/VHT40, M8 to M15 | 3 | 7 | -42.4 | -43.7 | -45.1 | | -31.5 | -27 | 4.54 |
| HT/VHT40, M16 to M23 | 3 | 7 | -42.4 | -43.7 | -45.1 | | -31.5 | -27 | 4.54 |
| HT/VHT40, M0 to M7 | 4 | 7 | -43.2 | -41.7 | -43.2 | -43.3 | -29.5 | -27 | 2.5 |
| HT/VHT40, M8 to M15 | 4 | 7 | -43.2 | -41.7 | -43.2 | -43.3 | -29.5 | -27 | 2.5 |
| HT/VHT40, M16 to M23 | 4 | 7 | -43.2 | -41.7 | -43.2 | -43.3 | -29.5 | -27 | 2.5 |
| HT/VHT40, M24 to M31 | 4 | 7 | -43.2 | -41.7 | -43.2 | -43.3 | -29.5 | -27 | 2.5 |
| HT/VHT40 Beam Forming, M0 to M7 | 2 | 10 | -46.4 | -47.3 | | | -33.5 | -27 | 6.54 |
| HT/VHT40 Beam Forming, M8 to M15 | 2 | 7 | -40.7 | -42.6 | | | -31.3 | -27 | 4.26 |
| HT/VHT40 Beam Forming, M0 to M7 | 3 | 12 | -46.0 | -48.4 | -47.5 | | -30.1 | -27 | 3.14 |
| HT/VHT40 Beam Forming, M8 to M15 | 3 | 9 | -46.4 | -47.3 | -46.1 | | -32.5 | -27 | 5.52 |
| HT/VHT40 Beam Forming, M16 to M23 | 3 | 7 | -42.4 | -43.7 | -45.1 | | -31.5 | -27 | 4.54 |
| HT/VHT40 Beam Forming, M0 to M7 | 4 | 13 | -50.9 | -52.6 | -52.1 | -48.7 | -31.5 | -27 | 4.5 |
| HT/VHT40 Beam Forming, M8 to M15 | 4 | 10 | -46.0 | -48.4 | -47.5 | -48.2 | -31.1 | -27 | 4.12 |
| HT/VHT40 Beam Forming, M16 to M23 | 4 | 8 | -46.4 | -47.3 | -46.1 | -46.8 | -32.3 | -27 | 5.33 |
| HT/VHT40 Beam Forming, M24 to M31 | 4 | 7 | -43.2 | -41.7 | -43.2 | -43.3 | -29.5 | -27 | 2.5 |

| | | | | | | | | | |
|---------------------------------|---|----|-------|-------|-------|-------|-------|-----|------|
| HT/VHT40 STBC, M0 to M7 | 2 | 7 | -40.7 | -42.6 | | | -31.3 | -27 | 4.26 |
| HT/VHT40 STBC, M0 to M7 | 3 | 7 | -42.4 | -43.7 | -45.1 | | -31.5 | -27 | 4.54 |
| HT/VHT40 STBC, M0 to M7 | 4 | 7 | -43.2 | -41.7 | -43.2 | -43.3 | -29.5 | -27 | 2.5 |
| HE40, M0 to M9 1ss | 1 | 7 | -36.5 | | | | -29.3 | -27 | 2.31 |
| HE40, M0 to M9 1ss | 2 | 7 | -42.1 | -42.4 | | | -32.0 | -27 | 5.05 |
| HE40, M0 to M9 2ss | 2 | 7 | -42.1 | -42.4 | | | -32.0 | -27 | 5.05 |
| HE40, M0 to M9 1ss | 3 | 7 | -43.1 | -46.0 | -45.8 | | -32.8 | -27 | 5.79 |
| HE40, M0 to M9 2ss | 3 | 7 | -43.1 | -46.0 | -45.8 | | -32.8 | -27 | 5.79 |
| HE40, M0 to M9 3ss | 3 | 7 | -43.1 | -46.0 | -45.8 | | -32.8 | -27 | 5.79 |
| HE40, M0 to M9 1ss | 4 | 7 | -43.0 | -45.3 | -45.7 | -46.2 | -31.5 | -27 | 4.5 |
| HE40, M0 to M9 2ss | 4 | 7 | -43.0 | -45.3 | -45.7 | -46.2 | -31.5 | -27 | 4.5 |
| HE40, M0 to M9 3ss | 4 | 7 | -43.0 | -45.3 | -45.7 | -46.2 | -31.5 | -27 | 4.5 |
| HE40, M0 to M9 4ss | 4 | 7 | -43.0 | -45.3 | -45.7 | -46.2 | -31.5 | -27 | 4.5 |
| HE40 Beam Forming, M0 to M9 1ss | 2 | 10 | -44.3 | -47.3 | | | -32.3 | -27 | 5.35 |
| HE40 Beam Forming, M0 to M9 2ss | 2 | 7 | -42.1 | -42.4 | | | -32.0 | -27 | 5.05 |
| HE40 Beam Forming, M0 to M9 1ss | 3 | 12 | -48.1 | -50.5 | -50.7 | | -32.6 | -27 | 5.64 |
| HE40 Beam Forming, M0 to M9 2ss | 3 | 9 | -44.3 | -47.3 | -47.4 | | -32.1 | -27 | 5.12 |
| HE40 Beam Forming, M0 to M9 3ss | 3 | 7 | -43.1 | -46.0 | -45.8 | | -32.8 | -27 | 5.79 |
| HE40 Beam Forming, M0 to M9 1ss | 4 | 13 | -51.4 | -50.3 | -52.3 | -50.9 | -32.0 | -27 | 4.95 |
| HE40 Beam Forming, M0 to M9 2ss | 4 | 10 | -44.9 | -49.0 | -49.6 | -49.2 | -31.5 | -27 | 4.49 |
| HE40 Beam Forming, M0 to M9 3ss | 4 | 8 | -44.3 | -47.3 | -47.4 | -44.9 | -31.5 | -27 | 4.54 |
| HE40 Beam Forming, M0 to M9 4ss | 4 | 7 | -43.0 | -45.3 | -45.7 | -46.2 | -31.5 | -27 | 4.5 |
| HE40 STBC, M0 to M9 2ss | 2 | 7 | -42.1 | -42.4 | | | -32.0 | -27 | 5.05 |
| HE40 STBC, M0 to M9 2ss | 3 | 7 | -43.1 | -46.0 | -45.8 | | -32.8 | -27 | 5.79 |
| HE40 STBC, M0 to M9 2ss | 4 | 7 | -43.0 | -45.3 | -45.7 | -46.2 | -31.5 | -27 | 4.5 |

Frequency 5210 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|------------------------|----------|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------------|------------|-------------|
| Non HT80, 6 to 54 Mbps | 1 | 7 | -38.2 | | | | -30.8 | -27 | 3.84 |
| Non HT80, 6 to 54 Mbps | 2 | 7 | -40.8 | -42.3 | | | -31.1 | -27 | 4.12 |

| | | | | | | | | | |
|----------------------------------|----------|----------|--------------|--------------|--------------|--------------|--------------|------------|-------------|
| Non HT80, 6 to 54 Mbps | 3 | 7 | -39.7 | -44.1 | -43.6 | | -29.9 | -27 | 2.86 |
| Non HT80, 6 to 54 Mbps | 4 | 7 | -40.0 | -42.1 | -40.3 | -42.3 | -27.7 | -27 | 0.68 |
| VHT80, M0 to M9 1ss | 1 | 7 | -38.6 | | | | -31.1 | -27 | 4.14 |
| VHT80, M0 to M9 1ss | 2 | 7 | -41.7 | -44.3 | | | -32.3 | -27 | 5.34 |
| VHT80, M0 to M9 2ss | 2 | 7 | -41.7 | -44.3 | | | -32.3 | -27 | 5.34 |
| VHT80, M0 to M9 1ss | 3 | 7 | -41.7 | -44.3 | -41.8 | | -30.2 | -27 | 3.22 |
| VHT80, M0 to M9 2ss | 3 | 7 | -41.7 | -44.3 | -41.8 | | -30.2 | -27 | 3.22 |
| VHT80, M0 to M9 3ss | 3 | 7 | -41.7 | -44.3 | -41.8 | | -30.2 | -27 | 3.22 |
| VHT80, M0 to M9 1ss | 4 | 7 | -43.6 | -46.6 | -46.9 | -43.9 | -31.5 | -27 | 4.51 |
| VHT80, M0 to M9 2ss | 4 | 7 | -43.6 | -46.6 | -46.9 | -43.9 | -31.5 | -27 | 4.51 |
| VHT80, M0 to M9 3ss | 4 | 7 | -43.6 | -46.6 | -46.9 | -43.9 | -31.5 | -27 | 4.51 |
| VHT80, M0 to M9 4ss | 4 | 7 | -43.6 | -46.6 | -46.9 | -43.9 | -31.5 | -27 | 4.51 |
| VHT80 Beam Forming, M0 to M9 1ss | 2 | 10 | -44.5 | -47.3 | | | -32.2 | -27 | 5.21 |
| VHT80 Beam Forming, M0 to M9 2ss | 2 | 7 | -41.7 | -44.3 | | | -32.3 | -27 | 5.34 |
| VHT80 Beam Forming, M0 to M9 1ss | 3 | 12 | -47.2 | -48.3 | -50.2 | | -31.2 | -27 | 4.17 |
| VHT80 Beam Forming, M0 to M9 2ss | 3 | 9 | -44.5 | -47.3 | -47.0 | | -31.8 | -27 | 4.85 |
| VHT80 Beam Forming, M0 to M9 3ss | 3 | 7 | -41.7 | -44.3 | -41.8 | | -30.2 | -27 | 3.22 |
| VHT80 Beam Forming, M0 to M9 1ss | 4 | 13 | -50.6 | -51.2 | -51.8 | -52.3 | -32.0 | -27 | 4.95 |
| VHT80 Beam Forming, M0 to M9 2ss | 4 | 10 | -47.2 | -48.3 | -50.2 | -49.0 | -32.1 | -27 | 5.06 |
| VHT80 Beam Forming, M0 to M9 3ss | 4 | 8 | -44.5 | -47.3 | -47.0 | -46.3 | -31.7 | -27 | 4.65 |
| VHT80 Beam Forming, M0 to M9 4ss | 4 | 7 | -43.6 | -46.6 | -46.9 | -43.9 | -31.5 | -27 | 4.51 |
| VHT80 STBC, M0 to M9 1ss | 2 | 7 | -41.7 | -44.3 | | | -32.3 | -27 | 5.34 |
| VHT80 STBC, M0 to M9 1ss | 3 | 7 | -41.7 | -44.3 | -41.8 | | -30.2 | -27 | 3.22 |
| VHT80 STBC, M0 to M9 1ss | 4 | 7 | -43.6 | -46.6 | -46.9 | -43.9 | -31.5 | -27 | 4.51 |
| HE80, M0 to M9 1ss | 1 | 7 | -38.2 | | | | -31.0 | -27 | 4.01 |
| HE80, M0 to M9 1ss | 2 | 7 | -42.5 | -42.4 | | | -32.2 | -27 | 5.25 |
| HE80, M0 to M9 2ss | 2 | 7 | -42.5 | -42.4 | | | -32.2 | -27 | 5.25 |
| HE80, M0 to M9 1ss | 3 | 7 | -42.5 | -42.4 | -43.9 | | -30.9 | -27 | 3.92 |
| HE80, M0 to M9 2ss | 3 | 7 | -42.5 | -42.4 | -43.9 | | -30.9 | -27 | 3.92 |
| HE80, M0 to M9 3ss | 3 | 7 | -42.5 | -42.4 | -43.9 | | -30.9 | -27 | 3.92 |
| HE80, M0 to M9 1ss | 4 | 7 | -44.1 | -48.2 | -46.7 | -44.7 | -32.4 | -27 | 5.42 |
| HE80, M0 to M9 2ss | 4 | 7 | -44.1 | -48.2 | -46.7 | -44.7 | -32.4 | -27 | 5.42 |
| HE80, M0 to M9 3ss | 4 | 7 | -44.1 | -48.2 | -46.7 | -44.7 | -32.4 | -27 | 5.42 |
| HE80, M0 to M9 4ss | 4 | 7 | -44.1 | -48.2 | -46.7 | -44.7 | -32.4 | -27 | 5.42 |
| HE80 Beam Forming, M0 to M9 1ss | 2 | 10 | -44.1 | -48.2 | | | -32.5 | -27 | 5.48 |
| HE80 Beam Forming, M0 to M9 2ss | 2 | 7 | -42.5 | -42.4 | | | -32.2 | -27 | 5.25 |

| | | | | | | | | | |
|---------------------------------|---|----|-------|-------|-------|-------|-------|-----|------|
| HE80 Beam Forming, M0 to M9 1ss | 3 | 12 | -48.7 | -49.4 | -50.3 | | -32.5 | -27 | 5.45 |
| HE80 Beam Forming, M0 to M9 2ss | 3 | 9 | -44.1 | -48.2 | -46.7 | | -32.0 | -27 | 5.03 |
| HE80 Beam Forming, M0 to M9 3ss | 3 | 7 | -42.5 | -42.4 | -43.9 | | -30.9 | -27 | 3.92 |
| HE80 Beam Forming, M0 to M9 1ss | 4 | 13 | -51.2 | -51.0 | -51.8 | -52.2 | -32.3 | -27 | 5.31 |
| HE80 Beam Forming, M0 to M9 2ss | 4 | 10 | -47.6 | -49.9 | -50.6 | -47.9 | -32.6 | -27 | 5.6 |
| HE80 Beam Forming, M0 to M9 3ss | 4 | 8 | -45.0 | -47.5 | -48.5 | -47.4 | -32.7 | -27 | 5.68 |
| HE80 Beam Forming, M0 to M9 4ss | 4 | 7 | -44.1 | -48.2 | -46.7 | -44.7 | -32.4 | -27 | 5.42 |
| HE80 STBC, M0 to M9 1ss | 2 | 7 | -42.5 | -42.4 | | | -32.2 | -27 | 5.25 |
| HE80 STBC, M0 to M9 1ss | 3 | 7 | -42.5 | -42.4 | -43.9 | | -30.9 | -27 | 3.92 |
| HE80 STBC, M0 to M9 1ss | 4 | 7 | -44.1 | -48.2 | -46.7 | -44.7 | -32.4 | -27 | 5.42 |

Frequency 5250 MHz

| Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 + TX4 Max Power (dBm) | Tx 2 + TX3 Max Power (dBm) | Total Tx Bandedge Level (dBm) | Limit (dB) | Margin (dB) |
|-------------------------------------|----------|-------------------------------|----------------------------|----------------------------|-------------------------------|------------|-------------|
| Non HT80+80, 6 to 54 Mbps | 1 | 7 | -36.0 | | -29.0 | -27 | 2.0 |
| Non HT80+80, 6 to 54 Mbps | 2 | 7 | -44.1 | -42.9 | -33.4 | -27 | 6.45 |
| VHT80+80, M0 to M9 1ss | 1 | 7 | -39.5 | | -32.5 | -27 | 5.5 |
| VHT80+80, M0 to M9 1ss | 2 | 7 | -39.4 | -43.2 | -30.9 | -27 | 3.89 |
| VHT80+80, M0 to M9 2ss | 2 | 7 | -39.4 | -43.2 | -30.9 | -27 | 3.89 |
| VHT80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -45.7 | -43.9 | -31.7 | -27 | 4.7 |
| VHT80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -39.4 | -43.2 | -30.9 | -27 | 3.89 |
| VHT80+80 STBC, M0 to M9 1ss | 2 | 7 | -39.4 | -43.2 | -30.9 | -27 | 3.89 |
| HE80+80, M0 to M9 1ss | 1 | 7 | -37.9 | | -30.9 | -27 | 3.9 |
| HE80+80, M0 to M9 1ss | 2 | 7 | -41.8 | -43.1 | -32.4 | -27 | 5.39 |
| HE80+80, M0 to M9 2ss | 2 | 7 | -41.8 | -43.1 | -32.4 | -27 | 5.39 |
| HE80+80 Beam Forming, M0 to M9 1ss | 2 | 10 | -42.9 | -44.1 | -30.4 | -27 | 3.45 |
| HE80+80 Beam Forming, M0 to M9 2ss | 2 | 7 | -41.8 | -43.1 | -32.4 | -27 | 5.39 |
| HE80+80 STBC, M0 to M9 1ss | 2 | 7 | -41.8 | -43.1 | -32.4 | -27 | 5.39 |

Data Screenshots

5180 MHz: Non HT20 Beam Forming, 6 to 54 Mbps



Antenna A



Antenna B



Antenna C

5210 MHz: Non HT80, 6 to 54 Mbps



Antenna A



Antenna B



Antenna C



Antenna D

5180 MHz: Non HT20 Beam Forming, 6 to 54 Mbps



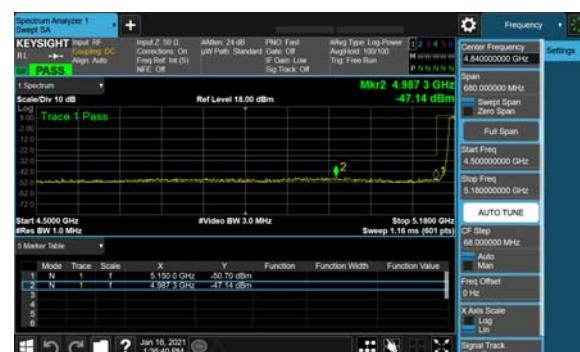
Antenna A



Antenna B



Antenna C

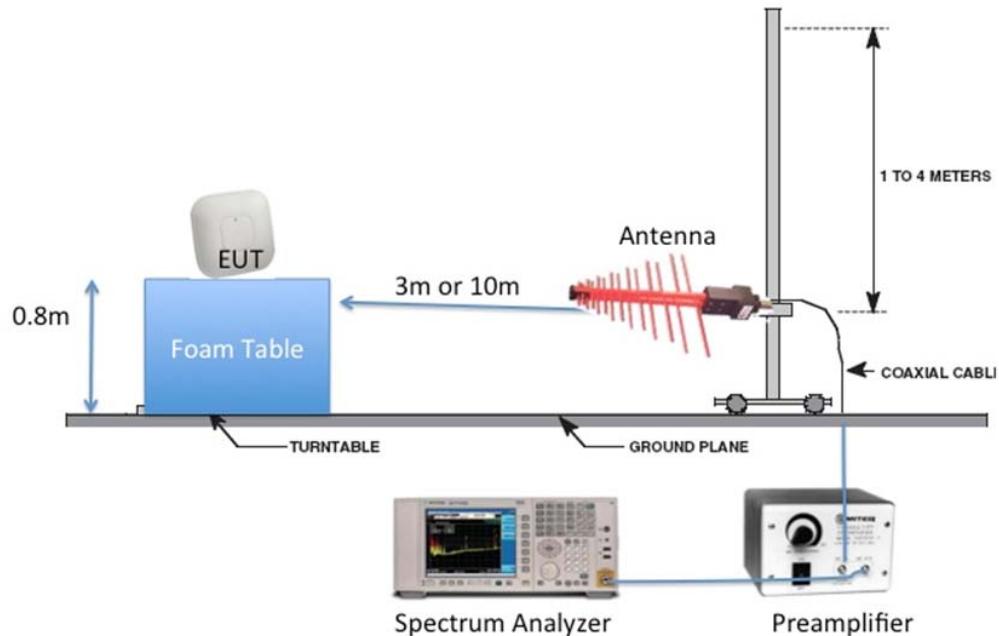


Antenna D

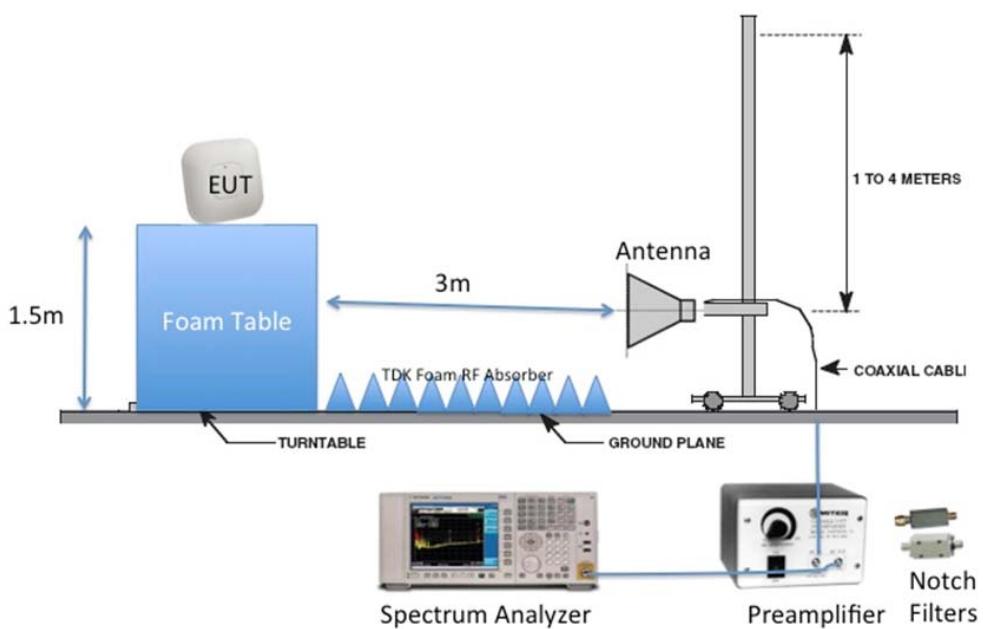
Appendix B: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 125 West Tasman Drive, San Jose, CA 95134, USA

Radiated Emission Setup Diagram-Below 1G



Radiated Emission Setup Diagram-Above 1G



B.1 Radiated Spurious Emissions

FCC 15.205 / 15.407 Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Not covered by the scope of this test report.

B.2 Radiated Emissions 30MHz to 1GHz

FCC 15.209 / 15.205 / 15.407 Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Ref. ANSI C63.10: 2013 section 6.5

Not covered by the scope of this test report.

B.3 AC Conducted Emissions

FCC 15.207 Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries.

Measurement Procedure
Accordance with ANSI C63.10:2013 section 6.2

Not covered by the scope of this test report.

Appendix C: List of Test Equipment Used to perform the test

| Equip# | Manufacturer/ Model | Description | Last Cal | Next Due | Test Item |
|---|--------------------------------------|--|-------------------|-------------------|-----------|
| Test Equipment used for conducted tests – Rack 2 | | | | | |
| 49515 | Keysight (Agilent/HP)/N5182B | MXG X-Series RF Vector Signal Generator | 16-Oct-20 | 16-Oct-21 | A.1-A.6 |
| 49516 | Keysight/ (Agilent/HP)/ N9030A-550 | PXA Signal Analyzer, 3Hz to 50GHz | 11-Nov-20 | 11-Nov-21 | A.1-A.6 |
| 57476 | Cisco/Automation Test Insertion Loss | Rack 2 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 46065 | National Instruments/ PXI-1042Q | 8 slot PXI chassis | Cal Not Required | Cal Not Required | A.1-A.6 |
| 57237 | National Instruments/ PXI-8115 | Embedded Controller | Cal Not Required | Cal Not Required | A.1-A.6 |
| 54686 | National Instruments/ PXI-2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 57245 | National Instruments/ PXI-2799 | Switch 1x1 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 56091 | National Instruments/ PXI-2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 56327 | PASTERNACK/ PE5019-1 | Torque Wrench | 14-May-20 | 14-May-21 | A.1-A.6 |
| 58256* | COMET/ T7611-4 | WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER | 3-Feb-21 | 3-Feb-22 | A.1-A.6 |

| Equip# | Manufacturer/ Model | Description | Last Cal | Next Due | Test Item |
|---|--|---|-------------------|-------------------|-----------|
| Test Equipment used for conducted tests – Rack 8 | | | | | |
| 58720 | Cisco/Automation Test Insertion Loss | Rack 8 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 58198 | Keysight (Agilent/HP) / N9030B-550 OPT LNP EPO | PXA Signal Analyzer, 2Hz-50GHz with Options LNP and EPO | 28-Jul-20 | 28-Jul-21 | A.1-A.6 |
| 58205 | NATIONAL INSTRUMENTS / PXIe-1062Q | CHASSIS | Cal Not Required | Cal Not Required | A.1-A.6 |

| | | | | | |
|--------|----------------------------------|--|-------------------|-------------------|---------|
| 58206 | NATIONAL INSTRUMENTS / PXIe-8840 | Up to 2.6 GHz Quad-Core PXI Express Controller | Cal Not Required | Cal Not Required | A.1-A.6 |
| 58208 | NATIONAL INSTRUMENTS / PXI-2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 58210 | NATIONAL INSTRUMENTS / PXI-2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 58211 | NATIONAL INSTRUMENTS / PXI-2799 | Switch 1x1 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 56327 | PASTERNACK/ PE5019-1 | Torque Wrench | 14-May-20 | 14-May-21 | A.1-A.6 |
| 58256* | COMET/ T7611-4 | WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER | 3-Feb-21 | 3-Feb-22 | A.1-A.6 |

| Equip# | Manufacturer/ Model | Description | Last Cal | Next Due | Test Item |
|--|---|---|-------------------|-------------------|-----------|
| Test Equipment used for conducted tests – Rack 9 | | | | | |
| 58719 | Cisco/Automation Test Insertion Loss | Rack 9 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 57562 | Keysight (Agilent/HP)/ N9030B-550 OPT LNP EPO | PXA Signal Analyzer, 2Hz-50GHz with Options LNP and EPO | 23-Jul-20 | 23-Jul-21 | A.1-A.6 |
| 58231 | NATIONAL INSTRUMENTS / PXIe-1062Q | CHASSIS | Cal Not Required | Cal Not Required | A.1-A.6 |
| 58232 | NATIONAL INSTRUMENTS / PXIe-8840 | Up to 2.6 GHz Quad-Core PXI Express Controller | Cal Not Required | Cal Not Required | A.1-A.6 |
| 58234 | NATIONAL INSTRUMENTS / PXI-2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 58236 | NATIONAL INSTRUMENTS / PXI-2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 58237 | NATIONAL INSTRUMENTS / PXI-2799 | Switch 1x1 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 56327 | PASTERNACK/ PE5019-1 | Torque Wrench | 14-May-20 | 14-May-21 | A.1-A.6 |

| | | | | | |
|--------|----------------|---|----------|----------|---------|
| 58256* | COMET/ T7611-4 | WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER | 3-Feb-21 | 3-Feb-22 | A.1-A.6 |
|--------|----------------|---|----------|----------|---------|

| Equip# | Manufacturer/ Model | Description | Last Cal | Next Due | Test Item |
|---|---|---|----------------------|----------------------|-----------|
| Test Equipment used for conducted tests – Rack 4 | | | | | |
| 57478 | Cisco/Automation Test Insertion Loss | Rack 4 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 58702 | Keysight (Agilent/HP)/ N9030B-550 | PXA Signal Analyzer, 2Hz-50GHz | 15-Oct-20 | 15-Oct-21 | A.1-A.6 |
| 55096 | National Instruments/ PXI- 1042 | CHASSIS, PXI | Cal Not Required | Cal Not Required | A.1-A.6 |
| 57239 | National Instruments/ PXI- 8115 | Embedded Controller | Cal Not Required | Cal Not Required | A.1-A.6 |
| 57250 | National Instruments/ PXI- 2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 57251 | National Instruments/ PXI- 2799 | Switch 1x1 | Verify Before Use | Verify Before Use | A.1-A.6 |
| 56093 | National Instruments/ PXI- 2796 | 40 GHz Dual 6x1 Multiplexer (SP6T) | Verify Before Use | Verify Before Use | A.1-A.6 |
| 56327 | PASTERNACK/ PE5019-1 | Torque Wrench | 14-May-20 | 14-May-21 | A.1-A.6 |
| 58256* | COMET/ T7611-4 | WEB SENSOR FOR REMOTE THERMOMETER HYGROMETER | 3-Feb-21 | 3-Feb-22 | A.1-A.6 |

*Please note, formal testing did not occur during the time the temperature sensor CIS#58256 was being calibrated.

Appendix D: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

| Abbreviation | Description | Abbreviation | Description |
|--------------|--|--------------|-------------------------------------|
| EMC | Electro Magnetic Compatibility | °F | Degrees Fahrenheit |
| EMI | Electro Magnetic Interference | °C | Degrees Celsius |
| EUT | Equipment Under Test | Temp | Temperature |
| ITE | Information Technology Equipment | S/N | Serial Number |
| TAP | Test Assessment Schedule | Qty | Quantity |
| ESD | Electro Static Discharge | emf | Electromotive force |
| EFT | Electric Fast Transient | RMS | Root mean square |
| EDCS | Engineering Document Control System | Qp | Quasi Peak |
| Config | Configuration | Av | Average |
| CIS# | Cisco Number (unique identification number for Cisco test equipment) | Pk | Peak |
| Cal | Calibration | kHz | Kilohertz (1×10^3) |
| EN | European Norm | MHz | MegaHertz (1×10^6) |
| IEC | International Electro technical Commission | GHz | Gigahertz (1×10^9) |
| CISPR | International Special Committee on Radio Interference | H | Horizontal |
| CDN | Coupling/Decoupling Network | V | Vertical |
| LISN | Line Impedance Stabilization Network | dB | decibel |
| PE | Protective Earth | V | Volt |
| GND | Ground | kV | Kilovolt (1×10^3) |
| L1 | Line 1 | µV | Microvolt (1×10^{-6}) |
| L2 | Line2 | A | Amp |
| L3 | Line 3 | µA | Micro Amp (1×10^{-6}) |
| DC | Direct Current | mS | Milli Second (1×10^{-3}) |
| RAW | Uncorrected measurement value, as indicated by the measuring device | µS | Micro Second (1×10^{-6}) |
| RF | Radio Frequency | µS | Micro Second (1×10^{-6}) |
| SLCE | Signal Line Conducted Emissions | m | Meter |
| Meas dist | Measurement distance | Spec dist | Specification distance |
| N/A or NA | Not Applicable | SL | Signal Line (or Telecom Line) |
| P | Power Line | L | Live Line |
| N | Neutral Line | R | Return |
| S | Supply | AC | Alternating Current |

Appendix E: Photographs of Test Setups

EUT Photos have been omitted from this test report. Photos can be found in the supplementary exhibit included in the submission and EDCS# 21541319.

Appendix F: Software Used to Perform Testing

Cisco Internal LabView Radio Test Automation Software:

RF Automation Main versions: 201, 205, 210, 212, 214, 220, 226
RF Domain Report Generation - version 3

Appendix G: Test Procedures

Measurements were made in accordance with

- KDB 789033 - D02 General UNII Test Procedures New Rules v02r01
- KDB 662911 - MIMO
- ANSI C63.4 2014 Unintentional Radiators
- ANSI C63.10 2013 Intentional Radiators

Test procedures are summarized below:

| | |
|------------------------------|----------------|
| FCC 5GHz Test Procedures | EDCS # 1445048 |
| FCC 5GHz RSE Test Procedures | EDCS # 1511600 |

Appendix H: Scope of Accreditation (A2LA certificate number 1178-01)

The scope of accreditation of Cisco Systems, Inc. can be found on the A2LA web page at:

<http://www.a2la.org/scopepdf/1178-01.pdf>

Appendix I: Test Assessment Plan

Compliance Test Plan (Excel) EDCS# 21468205
Target Power Tables EDCS# 19766956

Appendix J: Worst Case Justification

N/A

End