FCC RADIO TEST REPORT

FCC ID	:	**2ADZRBEACON24**
Equipment	:	**NOKIA WiFi Beacon 24**
Brand Name	:	**NOKIA**
Model Name	:	**Beacon 24**
Applicant	:	**Nokia Shanghai Bell Co., Ltd. No.388, Ningqiao Rd, Pilot Free Trade Zone, Shanghai, 201206 P.R. China**
Manufacturer	:	**Nokia of America Corporation 2301 Sugar Bush Rd. Raleigh, NC 27612**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Nov. 09, 2023 and testing was performed from Nov. 11, 2023 to Jan. 03, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FR3N0940B	01	Initial issue of report	Jan. 18, 2024
FR3N0940B	02	Revise Product Feature of Equipment Under Test, Test Mode and Appendix A2 This report is an updated version, replacing the report issued on Jan. 18, 2024.	Jan. 26, 2024
FR3N0940B	03	Revise Product Feature This report is an updated version, replacing the report issued on Jan. 26, 2024.	Jan. 30, 2024
FR3N0940B	04	Revise Product Feature This report is an updated version, replacing the report issued on Jan. 30, 2024.	Feb. 01, 2024
FR3N0940B	05	Revise AOT gain This report is an updated version, replacing the report issued on Feb. 01, 2024.	Feb. 06, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	0.22 dB under the limit at 5360.64 MHz
3.5	15.207	AC Conducted Emission	Pass	9.13 dB under the limit at 0.15 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, and Wi-Fi 6GHz 802.11ax/be. **Antenna Type** WLAN: PCB Antenna

<AOT gain>

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 2.97 Ant. 2: 4.09 Ant. 3: 4.22 Ant. 4: 3.85
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 2.97 Ant. 2: 5.09 Ant. 3: 4.67 Ant. 4: 3.85
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. A: 4.11 Ant. B: 4.46 Ant. C: 4.15 Ant. D: 3.82
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. A: 3.82 Ant. B: 3.80 Ant. C: 3.64 Ant. D: 4.04

Antenna information for Directional Gain / TXBF Gain		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Ant. 1+2+3+4>: 5.77
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Ant. 1+2+3+4>: 5.83
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Ant. A+B+C+D>: 5.95
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	<Ant. A+B+C+D>: 5.95

<PSA gain>

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 2.62 Ant. 2: 2.14 Ant. 3: 2.40 Ant. 4: 2.16
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 2.62 Ant. 2: 3.12 Ant. 3: 2.16 Ant. 4: 2.16
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. A: 2.07 Ant. B: 1.81 Ant. C: 1.74 Ant. D: 2.31
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. A: 2.07 Ant. B: 1.80 Ant. C: 1.70 Ant. D: 3.11

Antenna information for Directional Gain / TXBF Gain		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Ant. 1+2+3+4>: 5.37
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Ant. 1+2+3+4>: 5.37
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Ant. A+B+C+D>: 5.67
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	<Ant. A+B+C+D>: 5.39

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY, 03CH07-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH15-HY (TAF Code: 3786)
Remark	The Conducted test item and Radiated Spurious Emission test item for Band 2 and Band 3 subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)
5150-5350 MHz	50@	5250
5470-5725 MHz	114@	5570

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40, 802.11ax HE40 and 802.11be EHT40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80, 802.11ax HE80 and 802.11be EHT80.
3. The above Frequency and Channel with "@" are 802.11ac VHT160, 802.11ax HE160 and 802.11be EHT160.

2.2 Test Mode

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2018.

This device supports full RU and OFDMA modes for 802.11be mode (Partial RU including RU52*4 (20MHz), RU52*8 (40MHz), RU106*8 (80MHz), RU242*8 (160MHz)).

The TxBF mode of this device supports full RB.

The 802.11be mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n mode is not greater than 802.11ac mode, and 802.11ax mode is not greater than 802.11be mode, so all other conducted and radiated test is covered by 802.11ac and 802.11be mode.

The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ac VHT160	MCS0
802.11ax HE20 (Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11ax HE80 (Covered by EHT80)	MCS0
802.11ax HE160 (Covered by EHT160)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

TXBF Mode

Modulation	Data Rate
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ac VHT160	MCS0
802.11ax HE20 (Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11ax HE80 (Covered by EHT80)	MCS0
802.11ax HE160 (Covered by EHT160)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + LAN Link with Notebook + AC Adapter 1
Remark: For Radiated Test Cases, the tests were performed with Adapter 1.	

<CDD Mode>

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11be EHT20	802.11be EHT20	802.11be EHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11be EHT40	802.11be EHT40	802.11be EHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11be EHT80	802.11be EHT80	802.11be EHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

BW160		5150-5350 MHz	5470-5725MHz
		802.11be EHT160	802.11be EHT160
Ch. #		50	114

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11be EHT20	802.11be EHT40	802.11be EHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

<TXBF Mode>

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11be EHT20	802.11be EHT20	802.11be EHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11be EHT40	802.11be EHT40	802.11be EHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

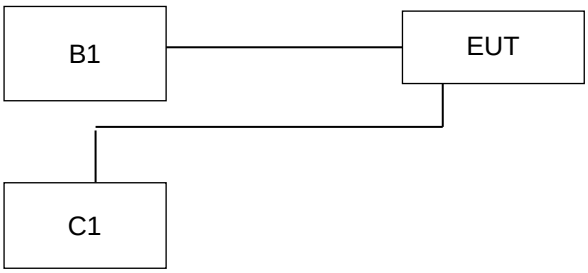
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11be EHT80	802.11be EHT80	802.11be EHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

BW160	5150-5350 MHz	5470-5725MHz
	802.11be EHT160	802.11be EHT160
Ch. #	50	114

Ch. #		Band IV：5725-5850 MHz		
		802.11be EHT20	802.11be EHT40	802.11be EHT80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



RF Test Setup										
No.	Power Source	Connection Type	Test Mode							
			1	2	-	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X	X	-	-	-	-	-
No.	**Setup Peripherals**	**Connection Type**	**1**	**2**	**-**	**-**	**-**	**-**	**-**
C1	Notebook	RJ-45 Cable	X	X	-	-	-	-	-

2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	E3340	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version:5.0.00202” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “iperf-2.0.9” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 Emission Bandwidth and 99% Occupied Bandwidth Measurement

3.1.1 Description of Emission Bandwidth and 99% Occupied Bandwidth

26dB and 99% Occupied bandwidth are reporting only.

The minimum 6 dB bandwidth shall be at least 500 kHz for the band 5.725-5.85 GHz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

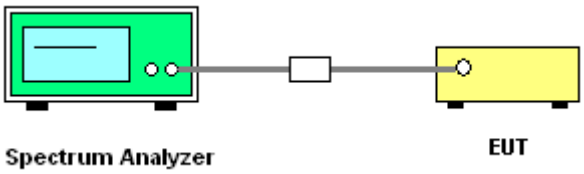
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak 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%.
7. For 99% bandwidth measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. For 6dB bandwidth measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 100 kHz and set the Video bandwidth (VBW) ≥ 3 * RBW. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
9. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ 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. 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.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

For the band 5.725–5.85 GHz:

■ the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

<CDD Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

<TXBF Modes>

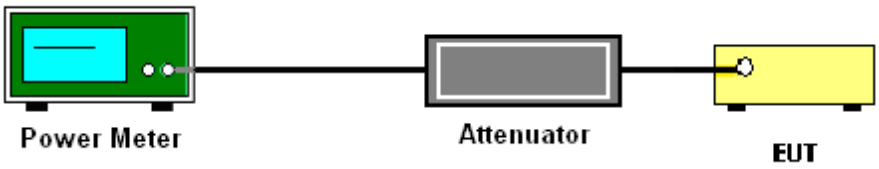
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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 1.0 MHz band. 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 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

For the band 5.725–5.85 GHz:

The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

For the band 5.15−5.25 GHz, 5.25−5.35 GHz, and 5.47−5.725 GHz:

<CDD Modes>

 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<TXBF Modes>

 # Method SA-3 #

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 4 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2, output 3 and output 4 to obtain the value for the first frequency bin of the summed spectrum.

For the band 5.725–5.85 GHz:

<CDD Modes>

 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300kHz.
- Set VBW ≥ 1 MHz.
- Add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<TXBF Modes>

 # Method SA-3 #

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

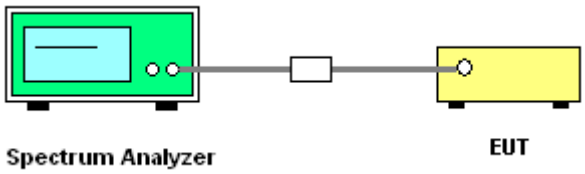
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (c): Measure and add 10 log(N_{ANT}) dB.

   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(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.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

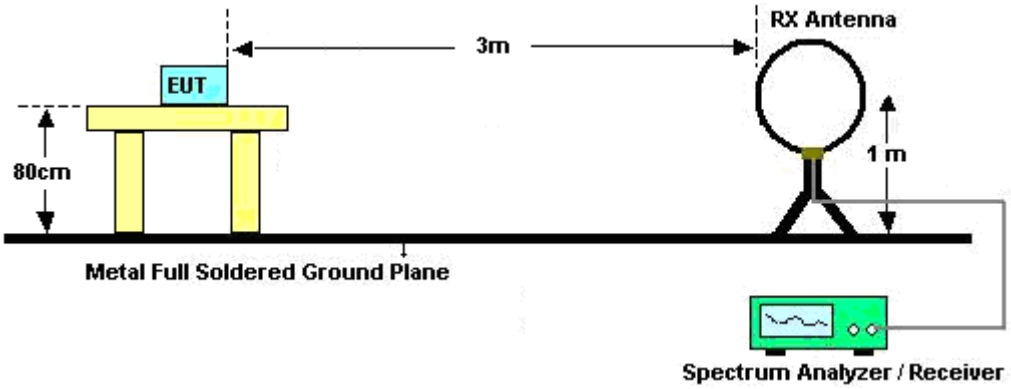
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

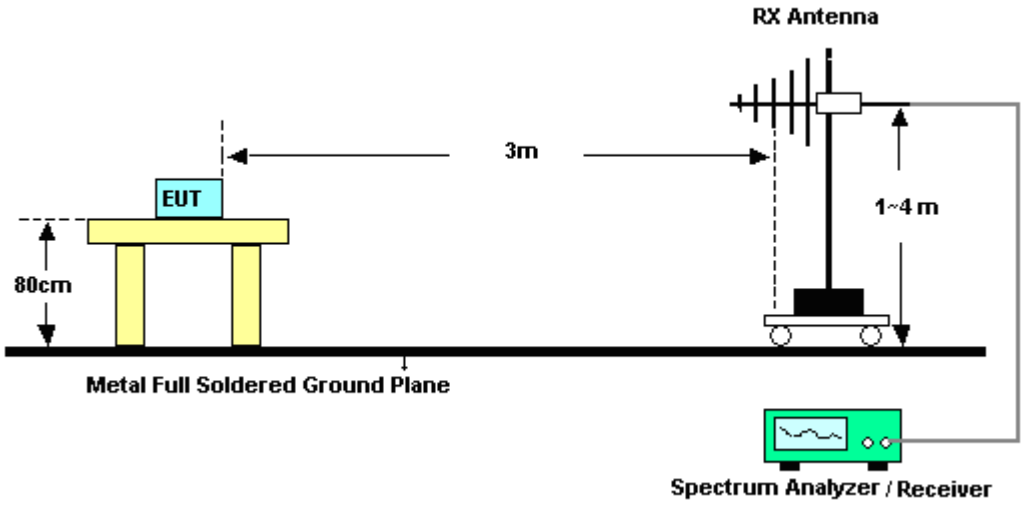
3.4.4 Test Setup

For radiated emissions below 30MHz

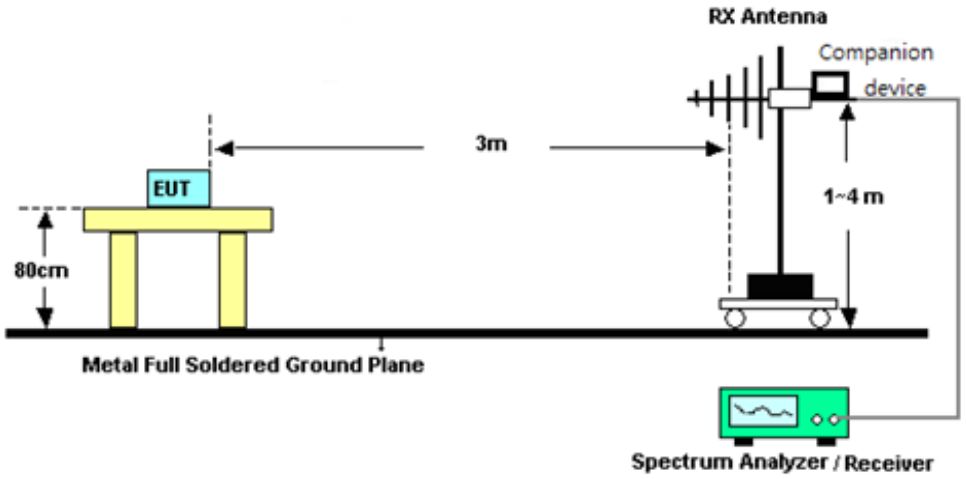


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

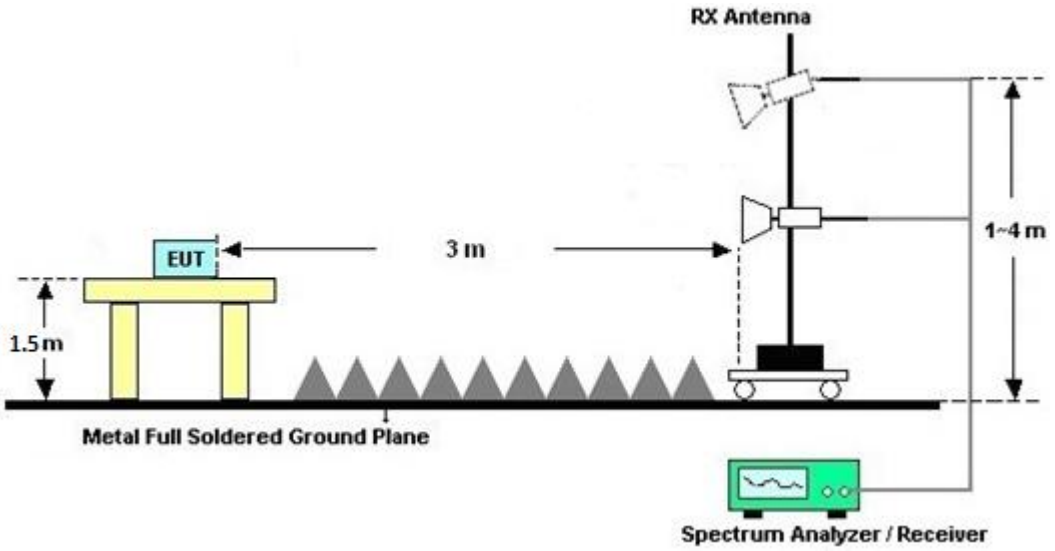


<TXBF Modes>

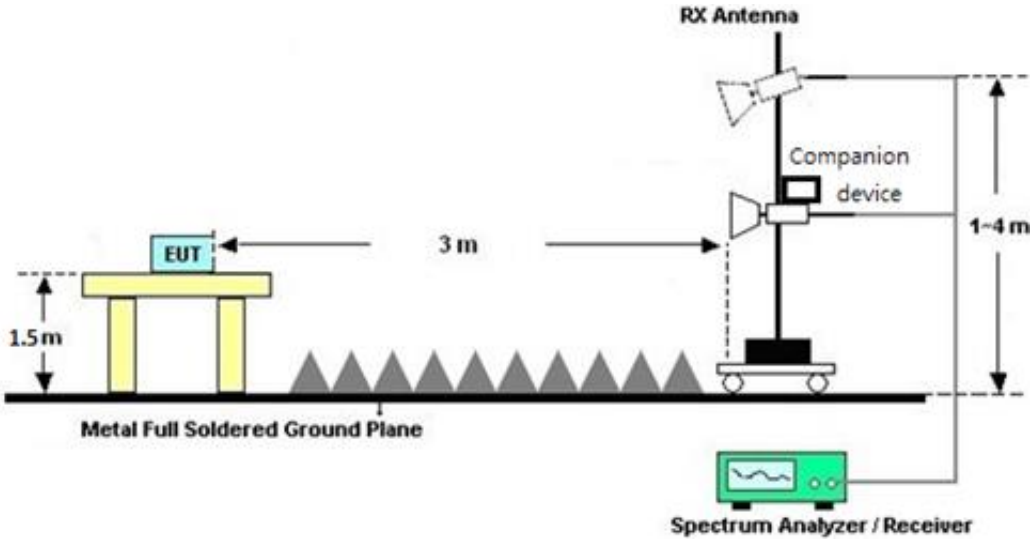


For radiated test from 1GHz to 18GHz

<CDD Mode>

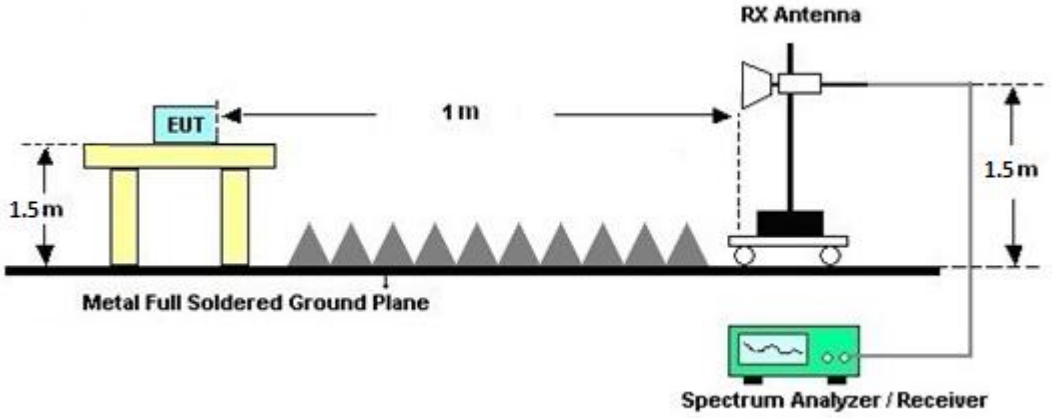


<TXBF Modes>

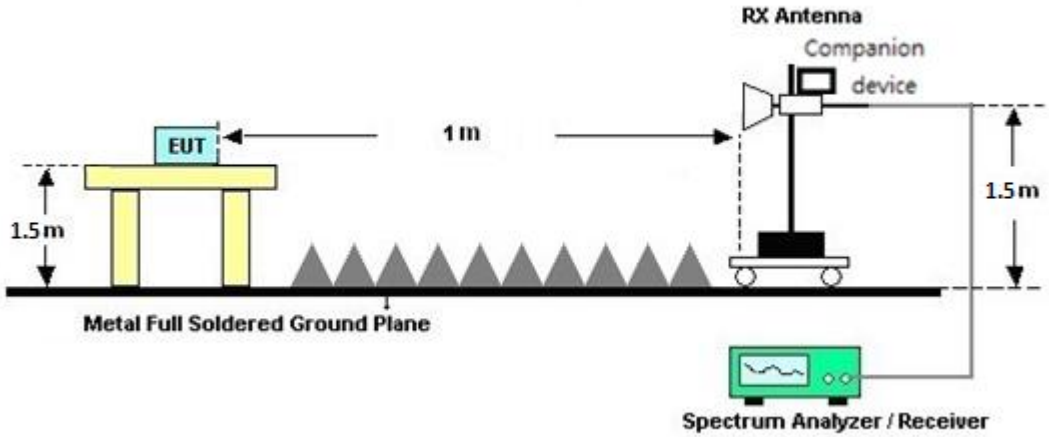


For radiated test above 18GHz

<CDD Mode>



<TXBF Modes>



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

*Decreases with the logarithm of the frequency.

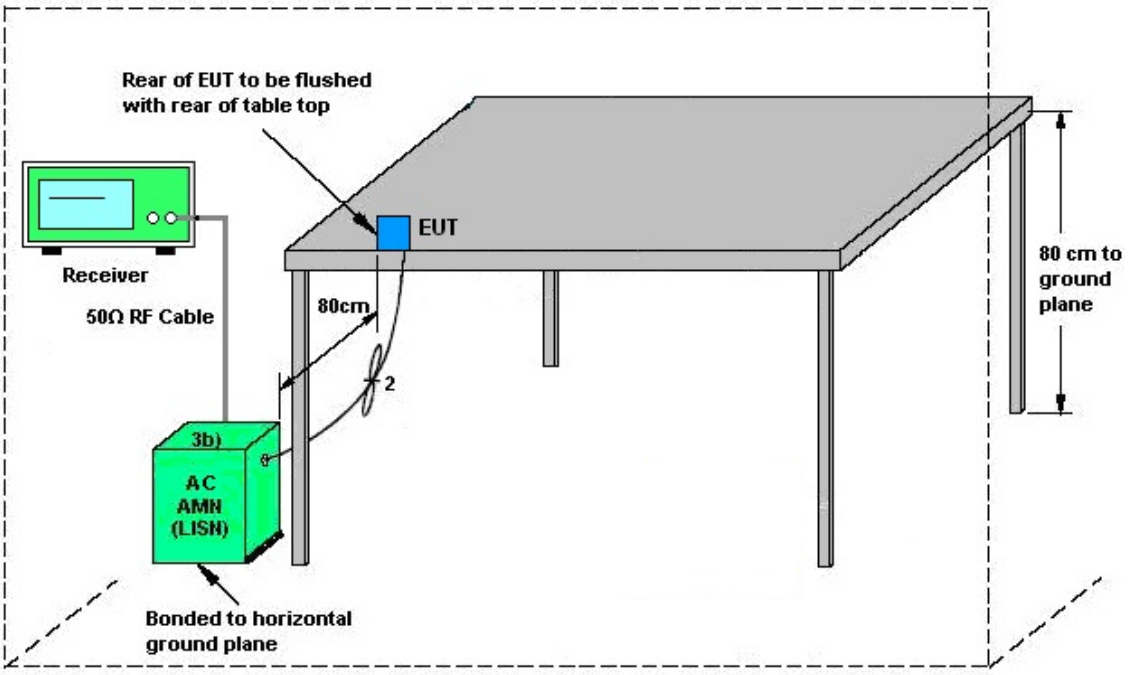
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 23, 2023	Nov. 11, 2023~ Dec. 26, 2023	Apr. 22, 2024	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2022	Nov. 11, 2023~ Nov. 19, 2023	Nov. 30, 2023	Radiation (03CH07-HY)
Horn Antenna	ESCO	3117	00066584	1GHz~18GHz	Dec. 20, 2023	Dec. 20, 2023~ Dec. 04, 2023	Dec. 19, 2024	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Nov. 27, 2023	Dec. 05, 2023~ Dec. 26, 2023	Nov. 26, 2024	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 28, 2023	Nov. 11, 2023~ Dec. 26, 2023	Feb. 27, 2024	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 20, 2023	Nov. 11, 2023~ Dec. 26, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 02, 2023	Nov. 11, 2023~ Dec. 26, 2023	Oct. 01, 2024	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 24, 2023	Nov. 11, 2023~ Dec. 26, 2023	Mar. 23, 2024	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 25, 2023	Nov. 11, 2023~ Dec. 26, 2023	Jul. 24, 2024	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2023	Nov. 11, 2023~ Dec. 26, 2023	Mar. 27, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 22, 2023	Nov. 11, 2023~ Dec. 26, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 22, 2023	Nov. 11, 2023~ Dec. 26, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 22, 2023	Nov. 11, 2023~ Dec. 26, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 15, 2023	Nov. 11, 2023~ Dec. 26, 2023	Sep. 14, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 22, 2023	Nov. 11, 2023~ Dec. 26, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 20, 2023	Nov. 11, 2023~ Dec. 26, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Nov. 11, 2023~ Dec. 26, 2023	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Nov. 11, 2023~ Dec. 26, 2023	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 11, 2023~ Dec. 26, 2023	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Nov. 11, 2023~ Dec. 26, 2023	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 14, 2023	Nov. 11, 2023~ Dec. 26, 2023	Mar. 13, 2024	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz-40GHz	Jun. 01, 2023	Nov. 11, 2023~ Dec. 26, 2023	May 31, 2024	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Nov. 16, 2023~ Dec. 09, 2023	Sep. 11, 2024	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 05, 2023	Nov. 16, 2023~ Dec. 09, 2023	Feb. 04, 2024	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 30, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jun. 29, 2024	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1225	18GHz~40GHz	Jul. 10, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jul. 09, 2024	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2022	Nov. 16, 2023~ Dec. 09, 2023	Dec. 25, 2023	Radiation (03CH15-HY)
Preamplifier	EMEC	EM01G18G	060837	1GHz~18GHz	Feb. 16, 2023	Nov. 16, 2023~ Dec. 09, 2023	Feb. 15, 2024	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060802	1GHz~18GHz	Mar. 03, 2023	Nov. 16, 2023~ Dec. 09, 2023	Mar. 02, 2024	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jun. 26, 2024	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Oct. 06, 2023	Nov. 16, 2023~ Dec. 09, 2023	Oct. 05, 2024	Radiation (03CH15-HY
Spectrum Analyzer	Keysight	N9010B	MY60241058	10Hz~44GHz	Jul. 06, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jul. 05, 2024	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 16, 2023~ Dec. 09, 2023	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 16, 2023~ Dec. 09, 2023	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Nov. 16, 2023~ Dec. 09, 2023	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY582185/4, 519228/2,803 950/2	N/A	Jun. 13, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jun. 12, 2024	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-15 30-6000-40ST	SN4	1.53GHz Low Pass Filter	Jun. 14, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jun. 13, 2024	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN4	3GHz High Pass Filter	Jun. 14, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jun. 13, 2024	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN6	6.75GHz High Pass Filter	Jun. 07, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jun. 06, 2024	Radiation (03CH15-HY)
Filter	Wainwright	WLK10-4630-5 093-11000-40 SS	SN1	4.5GHz Low Pass Filter	Sep. 11, 2023	Nov. 16, 2023~ Dec. 09, 2023	Sep. 10, 2024	Radiation (03CH15-HY)
Hygrometer	TECPEL	DTM-302	SN4	N/A	Jul. 26, 2023	Nov. 16, 2023~ Dec. 09, 2023	Jul. 25, 2024	Radiation (03CH15-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 23, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Nov. 23, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Nov. 23, 2023	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2022	Nov. 23, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Nov. 23, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	9kHz-200MHz	Jul. 28, 2023	Nov. 23, 2023	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Nov. 23, 2023	Dec. 28, 2023	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Nov. 16, 2023~ Jan. 03, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3008W	RPR8W-2301 0011 (NO:109)	10MHz~8GHz	Jul. 26, 2023	Nov. 16, 2023~ Dec. 23, 2023	Jul. 25, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3008W	RPR8W-2301 016 (NO:54)	10MHz~8GHz	Jul. 26, 2023	Nov. 16, 2023~ Dec. 23, 2023	Jul. 25, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	RPR6W-2101 001 (NO:206)	10MHz~8GHz	Feb. 15, 2023	Nov. 16, 2023~ Dec. 23, 2023	Feb. 14, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	RPR6W-2101 002 (NO:123)	10MHz~8GHz	Jan. 10, 2023	Nov. 16, 2023~ Dec. 23, 2023	Jan. 09, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 36 (NO:35)	10MHz~6GHz	Aug. 23, 2023	Dec. 21, 2023~ Jan. 03, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101468	10HZ~44GHZ	Mar. 13, 2023	Nov. 16, 2023~ Dec. 23, 2023	Mar. 12, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101435	10HZ~44GHZ	Nov. 01, 2023	Nov. 16, 2023~ Dec. 23, 2023	Oct. 31, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Feb. 01, 2023	Nov. 16, 2023~ Dec. 23, 2023	Jan. 31, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Feb. 01, 2023	Nov. 16, 2023~ Dec. 23, 2023	Jan. 31, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Dec. 21, 2023~ Jan. 03, 2024	Sep. 11, 2024	Conducted (TH05-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.5 dB

<For 03CH07-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.3 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB

<For 03CH15-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.3 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.5 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer	Willy Chang, Ju Chang and Eason Huang	Temperature	21~25	°C
Test Date	2023/11/16~2024/1/3	Relative Humidity	51~54	%

<CDD Mode>

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
11a	6Mbps	4	36	5180	22.64	22.64	22.72	22.80	17.05	17.04	17.00	17.04	22.31
11a	6Mbps	4	44	5220	23.12	22.64	22.96	22.96	17.13	17.09	17.08	17.10	22.32
11a	6Mbps	4	48	5240	22.72	23.44	23.12	22.80	17.17	17.10	17.11	17.12	22.33
VHT20	MCS0	4	36	5180	23.36	23.68	23.12	23.28	18.12	18.08	18.06	18.04	22.56
VHT20	MCS0	4	44	5220	24.00	24.00	23.60	23.68	18.25	18.18	18.15	18.11	22.58
VHT20	MCS0	4	48	5240	23.52	24.16	23.68	23.76	18.16	18.18	18.15	18.06	22.57
VHT40	MCS0	4	38	5190	47.36	48.00	46.88	46.24	37.38	37.33	37.35	37.23	23.01
VHT40	MCS0	4	46	5230	48.80	48.32	46.88	47.52	37.91	37.68	37.67	37.49	23.01
VHT80	MCS0	4	42	5210	92.80	92.80	93.12	93.12	76.46	76.33	76.37	76.42	23.01
VHT160	MCS0	4	50	5250	175.20	173.76	174.24	173.76	156.41	156.07	156.30	156.22	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
11a	6Mbps	4	36	5180	21.90	22.51	22.20	22.07	28.20	30.00	4.22	Pass
11a	6Mbps	4	44	5220	22.30	22.69	22.60	22.44	28.53	30.00	4.22	Pass
11a	6Mbps	4	48	5240	22.46	23.05	22.57	22.53	28.68	30.00	4.22	Pass
HT20	MCS0	4	36	5180	21.21	21.58	21.15	21.59	27.41	30.00	4.22	Pass
HT20	MCS0	4	44	5220	22.65	22.93	22.99	23.00	28.92	30.00	4.22	Pass
HT20	MCS0	4	48	5240	22.32	22.72	22.45	22.36	28.49	30.00	4.22	Pass
HT40	MCS0	4	38	5190	18.34	19.04	18.68	18.61	24.70	30.00	4.22	Pass
HT40	MCS0	4	46	5230	23.00	23.47	23.39	22.90	29.22	30.00	4.22	Pass
VHT20	MCS0	4	36	5180	21.27	21.78	21.56	21.41	27.53	30.00	4.22	Pass
VHT20	MCS0	4	44	5220	22.93	23.18	23.22	23.02	29.11	30.00	4.22	Pass
VHT20	MCS0	4	48	5240	22.47	22.93	22.68	22.60	28.69	30.00	4.22	Pass
VHT40	MCS0	4	38	5190	18.45	19.04	18.82	18.61	24.76	30.00	4.22	Pass
VHT40	MCS0	4	46	5230	23.08	23.22	23.35	23.17	29.23	30.00	4.22	Pass
VHT80	MCS0	4	42	5210	16.76	17.17	17.19	16.77	23.00	30.00	4.22	Pass
VHT160	MCS0	4	50	5250	15.72	16.09	15.84	15.60	21.84	30.00	4.22	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)				Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
11a	6Mbps	4	36	5180	0.03	0.03	0.03	0.03	16.39	17dBm	5.77	Pass
11a	6Mbps	4	44	5220	0.03	0.03	0.03	0.03	16.59	17dBm	5.77	Pass
11a	6Mbps	4	48	5240	0.03	0.03	0.03	0.03	16.69	17dBm	5.77	Pass
VHT20	MCS0	4	36	5180	0.05	0.10	0.05	0.03	14.82	17dBm	5.77	Pass
VHT20	MCS0	4	44	5220	0.05	0.10	0.05	0.03	16.49	17dBm	5.77	Pass
VHT20	MCS0	4	48	5240	0.05	0.10	0.05	0.03	16.12	17dBm	5.77	Pass
VHT40	MCS0	4	38	5190	0.05	0.03	0.03	0.08	9.30	17dBm	5.77	Pass
VHT40	MCS0	4	46	5230	0.05	0.03	0.03	0.08	14.09	17dBm	5.77	Pass
VHT80	MCS0	4	42	5210	0.05	0.08	0.10	0.06	4.77	17dBm	5.77	Pass
VHT160	MCS0	4	50	5250	0.13	0.06	0.08	0.11	1.15	17dBm	5.77	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	
11a	6Mbps	4	52	5260	22.64	22.64	23.12	22.72	23.98	23.98
11a	6Mbps	4	60	5300	22.72	22.56	23.04	22.56	23.98	
11a	6Mbps	4	64	5320	22.64	23.12	23.04	22.80	23.98	
VHT20	MCS0	4	52	5260	23.92	23.52	23.52	23.20	23.98	
VHT20	MCS0	4	60	5300	23.28	23.44	23.28	23.04	23.98	
VHT20	MCS0	4	64	5320	23.52	23.52	23.76	23.36	23.98	
VHT40	MCS0	4	54	5270	48.00	47.04	47.20	47.04	23.98	
VHT40	MCS0	4	62	5310	46.88	47.20	45.76	46.56	23.98	
VHT80	MCS0	4	58	5290	95.36	95.36	92.48	92.48	23.98	

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	4	52	5260	17.05	17.06	17.06	17.05	23.32	29.32			
11a	6Mbps	4	60	5300	17.05	17.04	17.04	17.03	23.31	29.31			
11a	6Mbps	4	64	5320	17.05	17.01	17.05	17.02	23.31	29.31			
VHT20	MCS0	4	52	5260	18.17	18.10	18.07	18.04	23.56	29.56			
VHT20	MCS0	4	60	5300	18.12	18.12	18.07	18.04	23.56	29.56			
VHT20	MCS0	4	64	5320	18.10	18.08	18.06	18.02	23.56	29.56			
VHT40	MCS0	4	54	5270	37.52	37.39	37.42	37.11	23.98	30.00			
VHT40	MCS0	4	62	5310	37.39	37.34	37.28	37.21	23.98	30.00			
VHT80	MCS0	4	58	5290	76.42	76.48	76.53	76.37	23.98	30.00			

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4		
11a	6Mbps	4	52	5260	16.72	17.25	16.51	16.74	22.83	23.98	5.09	27.92	30.00	Pass
11a	6Mbps	4	60	5300	16.50	16.98	16.40	16.28	22.57	23.98	5.09	27.66	30.00	Pass
11a	6Mbps	4	64	5320	16.49	16.57	16.51	16.26	22.48	23.98	5.09	27.57	30.00	Pass
HT20	MCS0	4	52	5260	17.06	17.59	16.95	17.10	23.20	23.98	5.09	28.29	30.00	Pass
HT20	MCS0	4	60	5300	16.82	17.52	16.70	16.68	22.96	23.98	5.09	28.05	30.00	Pass
HT20	MCS0	4	64	5320	16.78	17.03	16.72	16.66	22.82	23.98	5.09	27.91	30.00	Pass
HT40	MCS0	4	54	5270	16.92	17.76	17.43	17.16	23.35	23.98	5.09	28.44	30.00	Pass
HT40	MCS0	4	62	5310	17.10	17.70	17.38	17.01	23.33	23.98	5.09	28.42	30.00	Pass
VHT20	MCS0	4	52	5260	17.25	17.62	17.31	17.33	23.40	23.98	5.09	28.49	30.00	Pass
VHT20	MCS0	4	60	5300	16.85	17.41	16.93	16.75	23.01	23.98	5.09	28.10	30.00	Pass
VHT20	MCS0	4	64	5320	16.91	16.93	16.78	16.79	22.87	23.98	5.09	27.96	30.00	Pass
VHT40	MCS0	4	54	5270	17.60	18.07	17.78	17.54	23.77	23.98	5.09	28.86	30.00	Pass
VHT40	MCS0	4	62	5310	17.37	17.80	17.38	17.26	23.48	23.98	5.09	28.57	30.00	Pass
VHT80	MCS0	4	58	5290	16.78	17.59	17.04	16.86	23.10	23.98	5.09	28.19	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)				Average Power Density with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
11a	6Mbps	4	52	5260	0.03	0.03	0.03	0.03	10.93	11.00	5.83	Pass
11a	6Mbps	4	60	5300	0.03	0.03	0.03	0.03	10.74	11.00	5.83	Pass
11a	6Mbps	4	64	5320	0.03	0.03	0.03	0.03	10.63	11.00	5.83	Pass
VHT20	MCS0	4	52	5260	0.05	0.10	0.05	0.03	10.66	11.00	5.83	Pass
VHT20	MCS0	4	60	5300	0.05	0.10	0.05	0.03	10.46	11.00	5.83	Pass
VHT20	MCS0	4	64	5320	0.05	0.10	0.05	0.03	10.15	11.00	5.83	Pass
VHT40	MCS0	4	54	5270	0.05	0.03	0.03	0.08	8.19	11.00	5.83	Pass
VHT40	MCS0	4	62	5310	0.05	0.03	0.03	0.08	8.24	11.00	5.83	Pass
VHT80	MCS0	4	58	5290	0.05	0.08	0.10	0.06	4.69	11.00	5.83	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
11a	6Mbps	4	100	5500	23.28	22.96	22.96	22.48	23.98	----	----	----	----
11a	6Mbps	4	116	5580	22.80	23.28	22.96	22.64	23.98	----	----	----	----
11a	6Mbps	4	140	5700	22.72	23.12	22.80	22.64	23.98	----	----	----	----
VHT20	MCS0	4	100	5500	23.04	23.36	23.60	23.28	23.98	----	----	----	----
VHT20	MCS0	4	116	5580	23.92	23.20	23.60	23.12	23.98	----	----	----	----
VHT20	MCS0	4	140	5700	23.36	24.08	23.20	23.20	23.98	----	----	----	----
VHT40	MCS0	4	102	5510	47.68	46.72	47.20	46.72	23.98	----	----	----	----
VHT40	MCS0	4	110	5550	47.52	47.68	46.56	46.88	23.98	----	----	----	----
VHT40	MCS0	4	134	5670	47.36	47.36	47.36	46.72	23.98	----	----	----	----
VHT80	MCS0	4	106	5530	91.52	92.80	93.12	91.84	23.98	----	----	----	----
VHT80	MCS0	4	122	5610	93.76	92.80	92.48	92.48	23.98	----	----	----	----
VHT160	MCS0	4	114	5570	174.24	173.76	172.32	173.76	23.98	----	----	----	----

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
11a	6Mbps	4	144	5720	16.12	16.36	16.28	16.36	23.07	3.25	3.25	3.25	3.25
VHT20	MCS0	4	144	5720	16.52	16.60	16.68	16.44	23.16	3.85	3.85	3.85	3.85
VHT40	MCS0	4	142	5710	39.00	38.84	37.56	38.84	23.98	3.27	3.27	3.27	3.27
VHT80	MCS0	4	138	5690	82.36	81.40	81.72	80.76	23.98	3.40	3.40	3.40	3.40

Band III MIMO 4Tx Mode Ant A + B + C + D										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
11a	6Mbps	4	100	5500	17.03	17.02	17.06	17.07	23.31	29.31
11a	6Mbps	4	116	5580	17.08	17.07	17.06	17.09	23.32	29.32
11a	6Mbps	4	140	5700	17.06	17.04	17.02	17.04	23.31	29.31
VHT20	MCS0	4	100	5500	18.15	18.10	18.11	18.07	23.57	29.57
VHT20	MCS0	4	116	5580	18.12	18.14	18.07	18.02	23.56	29.56
VHT20	MCS0	4	140	5700	18.19	18.15	18.06	18.05	23.56	29.56
VHT40	MCS0	4	102	5510	37.46	37.41	37.31	37.24	23.98	30.00
VHT40	MCS0	4	110	5550	37.51	37.32	37.26	37.18	23.98	30.00
VHT40	MCS0	4	134	5670	37.59	37.37	37.33	37.27	23.98	30.00
VHT80	MCS0	4	106	5530	76.35	76.30	76.34	76.35	23.98	30.00
VHT80	MCS0	4	122	5610	76.55	76.47	76.49	76.40	23.98	30.00
VHT160	MCS0	4	114	5570	155.73	155.73	155.80	155.44	23.98	30.00

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
11a	6Mbps	4	144	5720	13.59	13.55	13.55	13.53	22.31	28.31
VHT20	MCS0	4	144	5720	14.06	14.07	14.05	14.00	22.46	28.46
VHT40	MCS0	4	142	5710	33.81	33.61	33.66	33.66	23.98	30.00
VHT80	MCS0	4	138	5690	73.27	73.20	73.25	73.29	23.98	30.00

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO 4Tx Mode Ant A + B + C + D														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
11a	6Mbps	4	100	5500	15.95	16.26	16.09	16.00	22.10	23.98	4.46	26.56	30.00	Pass
11a	6Mbps	4	116	5580	16.01	16.21	16.01	15.87	22.05	23.98	4.46	26.51	30.00	Pass
11a	6Mbps	4	140	5700	16.50	17.04	16.66	16.33	22.66	23.98	4.46	27.12	30.00	Pass
HT20	MCS0	4	100	5500	16.16	16.73	16.38	16.50	22.47	23.98	4.46	26.93	30.00	Pass
HT20	MCS0	4	116	5580	16.57	16.96	16.58	16.53	22.68	23.98	4.46	27.14	30.00	Pass
HT20	MCS0	4	140	5700	16.66	17.45	16.68	16.60	22.88	23.98	4.46	27.34	30.00	Pass
HT40	MCS0	4	102	5510	16.79	17.35	16.95	16.94	23.03	23.98	4.46	27.49	30.00	Pass
HT40	MCS0	4	110	5550	16.93	17.34	17.15	17.00	23.13	23.98	4.46	27.59	30.00	Pass
HT40	MCS0	4	134	5670	16.95	17.60	17.00	16.87	23.14	23.98	4.46	27.60	30.00	Pass
VHT20	MCS0	4	100	5500	16.21	16.83	16.53	16.38	22.51	23.98	4.46	26.97	30.00	Pass
VHT20	MCS0	4	116	5580	16.57	17.08	16.75	16.50	22.75	23.98	4.46	27.21	30.00	Pass
VHT20	MCS0	4	140	5700	16.68	17.55	16.80	16.51	22.92	23.98	4.46	27.38	30.00	Pass
VHT40	MCS0	4	102	5510	16.92	17.42	17.08	17.02	23.13	23.98	4.46	27.59	30.00	Pass
VHT40	MCS0	4	110	5550	16.96	17.35	17.28	17.01	23.17	23.98	4.46	27.63	30.00	Pass
VHT40	MCS0	4	134	5670	16.99	17.64	17.03	16.95	23.18	23.98	4.46	27.64	30.00	Pass
VHT80	MCS0	4	106	5530	17.28	17.64	17.45	17.49	23.49	23.98	4.46	27.95	30.00	Pass
VHT80	MCS0	4	122	5610	17.23	17.63	17.25	17.26	23.37	23.98	4.46	27.83	30.00	Pass
VHT160	MCS0	4	114	5570	17.40	17.86	17.59	17.26	23.55	23.98	4.46	28.01	30.00	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
11a	6Mbps	4	144	5720	16.22	16.77	16.10	16.00	22.30	23.07	4.46	26.76	30.00	Pass
HT20	MCS0	4	144	5720	16.38	17.00	16.48	16.28	22.56	23.98	4.46	27.02	30.00	Pass
HT40	MCS0	4	142	5710	16.61	17.28	16.71	16.69	22.85	23.98	4.46	27.31	30.00	Pass
VHT20	MCS0	4	144	5720	16.28	17.10	16.56	16.28	22.59	23.16	4.46	27.05	30.00	Pass
VHT40	MCS0	4	142	5710	16.69	17.32	16.81	16.78	22.93	23.98	4.46	27.39	30.00	Pass
VHT80	MCS0	4	138	5690	17.46	18.07	17.22	17.45	23.58	23.98	4.46	28.04	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band III MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)				Average Power Density with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
11a	6Mbps	4	100	5500	0.03	0.03	0.03	0.03	10.59	11.00	5.95	Pass
11a	6Mbps	4	116	5580	0.03	0.03	0.03	0.03	10.28	11.00	5.95	Pass
11a	6Mbps	4	140	5700	0.03	0.03	0.03	0.03	10.99	11.00	5.95	Pass
VHT20	MCS0	4	100	5500	0.05	0.10	0.05	0.03	10.71	11.00	5.95	Pass
VHT20	MCS0	4	116	5580	0.05	0.10	0.05	0.03	10.55	11.00	5.95	Pass
VHT20	MCS0	4	140	5700	0.05	0.10	0.05	0.03	10.85	11.00	5.95	Pass
VHT40	MCS0	4	102	5510	0.05	0.03	0.03	0.08	8.24	11.00	5.95	Pass
VHT40	MCS0	4	110	5550	0.05	0.03	0.03	0.08	7.98	11.00	5.95	Pass
VHT40	MCS0	4	134	5670	0.05	0.03	0.03	0.08	7.92	11.00	5.95	Pass
VHT80	MCS0	4	106	5530	0.05	0.08	0.10	0.06	5.70	11.00	5.95	Pass
VHT80	MCS0	4	122	5610	0.05	0.08	0.10	0.06	5.26	11.00	5.95	Pass
VHT160	MCS0	4	114	5570	0.13	0.06	0.08	0.11	2.87	11.00	5.95	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)				Average Power Density with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
11a	6Mbps	4	144	5720	0.03	0.03	0.03	0.03	10.47	11.00	5.95	Pass
VHT20	MCS0	4	144	5720	0.05	0.10	0.05	0.03	10.49	11.00	5.95	Pass
VHT40	MCS0	4	142	5710	0.05	0.03	0.03	0.08	7.81	11.00	5.95	Pass
VHT80	MCS0	4	138	5690	0.05	0.08	0.10	0.06	5.51	11.00	5.95	Pass

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant A + B + C + D																		
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D		
11a	6Mbps	4	149	5745	22.64	23.12	22.88	22.72	16.45	16.45	16.45	16.45	17.07	17.063	17.013	17.01	0.5	Pass
11a	6Mbps	4	157	5785	22.72	22.8	22.96	22.88	16.45	16.45	16.45	16.5	17.096	17.14	17.016	17.061	0.5	Pass
11a	6Mbps	4	165	5825	23.04	23.2	22.64	22.88	16.45	16.45	16.45	16.45	17.107	17.11	17.102	17.052	0.5	Pass
VHT20	MCS0	4	149	5745	23.68	23.52	23.84	23.92	17.7	17.7	17.7	17.7	18.165	18.16	18.051	18.046	0.5	Pass
VHT20	MCS0	4	157	5785	23.92	24.16	23.44	23.52	17.7	17.7	17.7	17.7	18.184	18.20	18.086	18.063	0.5	Pass
VHT20	MCS0	4	165	5825	23.60	24.4	23.28	23.36	17.7	17.7	17.7	17.7	18.162	18.20	18.038	18.038	0.5	Pass
VHT40	MCS0	4	151	5755	47.84	47.68	46.72	45.92	36.54	36.54	36.54	36.54	37.468	37.36	37.288	37.255	0.5	Pass
VHT40	MCS0	4	159	5795	47.84	48	46.72	47.20	36.54	36.54	36.54	36.54	37.584	37.41	37.441	37.363	0.5	Pass
VHT80	MCS0	4	155	5775	93.76	92.8	94.08	92.48	76.8	76.16	76.80	76.16	76.648	76.46	76.628	76.516	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
11a	6Mbps	4	149	5745	23.50	23.71	23.32	23.67	29.57	30.00	4.04	Pass
11a	6Mbps	4	157	5785	23.11	23.19	22.88	23.44	29.18	30.00	4.04	Pass
11a	6Mbps	4	165	5825	22.87	23.55	23.24	22.91	29.17	30.00	4.04	Pass
HT20	MCS0	4	149	5745	23.36	23.55	23.2	23.38	29.39	30.00	4.04	Pass
HT20	MCS0	4	157	5785	23.27	23.33	23.3	23.22	29.30	30.00	4.04	Pass
HT20	MCS0	4	165	5825	22.94	23.55	22.14	22.83	28.91	30.00	4.04	Pass
HT40	MCS0	4	151	5755	23.16	23.20	22.97	23.39	29.20	30.00	4.04	Pass
HT40	MCS0	4	159	5795	22.79	23.06	22.83	22.91	28.92	30.00	4.04	Pass
VHT20	MCS0	4	149	5745	23.32	23.61	23.35	23.40	29.44	30.00	4.04	Pass
VHT20	MCS0	4	157	5785	23.32	23.38	23.45	23.11	29.34	30.00	4.04	Pass
VHT20	MCS0	4	165	5825	22.93	23.55	23.06	22.77	29.11	30.00	4.04	Pass
VHT40	MCS0	4	151	5755	23.18	23.26	23	23.37	29.23	30.00	4.04	Pass
VHT40	MCS0	4	159	5795	22.91	23.08	22.97	23.03	29.02	30.00	4.04	Pass
VHT80	MCS0	4	155	5775	23.44	23.54	23.43	23.50	29.50	30.00	4.04	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant A + B + C + D																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor(dBm)				Average Power Density with Duty Factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
11a	6Mbps	4	149	5745	0.03	0.03	0.03	0.03	8.69	8.99	8.64	8.83	15.01	30.00	5.95	Pass
11a	6Mbps	4	157	5785	0.03	0.03	0.03	0.03	8.23	8.48	8.32	8.50	14.52	30.00	5.95	Pass
11a	6Mbps	4	165	5825	0.03	0.03	0.03	0.03	8.14	8.86	8.37	8.23	14.88	30.00	5.95	Pass
VHT20	MCS0	4	149	5745	0.05	0.10	0.05	0.03	8.11	8.52	8.14	8.19	14.54	30.00	5.95	Pass
VHT20	MCS0	4	157	5785	0.05	0.10	0.05	0.03	8.31	8.44	8.24	7.96	14.46	30.00	5.95	Pass
VHT20	MCS0	4	165	5825	0.05	0.10	0.05	0.03	7.88	8.56	8.00	7.64	14.58	30.00	5.95	Pass
VHT40	MCS0	4	151	5755	0.05	0.03	0.03	0.08	5.27	5.27	4.98	5.68	11.70	30.00	5.95	Pass
VHT40	MCS0	4	159	5795	0.05	0.03	0.03	0.08	5.00	5.17	4.82	5.27	11.29	30.00	5.95	Pass
VHT80	MCS0	4	155	5775	0.05	0.08	0.10	0.06	3.04	3.04	2.80	3.35	9.37	30.00	5.95	Pass

Note: PSD Sum = Max PSD(Ant. A, Ant. B, Ant. C, Ant. D) + 10 log (n)

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
HE20	MCS0	4	36	5180	Full	21.33	21.96	21.70	21.51	27.65	30.00	4.22	Pass
HE20	MCS0	4	44	5220	Full	22.90	23.40	23.27	23.10	29.19	30.00	4.22	Pass
HE20	MCS0	4	48	5240	Full	22.57	23.22	22.75	22.66	28.83	30.00	4.22	Pass
HE40	MCS0	4	38	5190	Full	18.41	19.04	18.66	18.50	24.68	30.00	4.22	Pass
HE40	MCS0	4	46	5230	Full	23.03	23.43	23.35	23.04	29.24	30.00	4.22	Pass
HE80	MCS0	4	42	5210	Full	16.79	17.22	17.11	16.68	22.98	30.00	4.22	Pass
HE160	MCS0	4	50	5250	Full	17.83	18.20	17.95	17.54	23.91	30.00	4.22	Pass

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4		
HE20	MCS0	4	52	5260	Full	17.16	17.92	17.19	17.28	23.42	23.98	5.09	28.51	30.00	Pass
HE20	MCS0	4	60	5300	Full	17.03	17.65	16.99	16.86	23.16	23.98	5.09	28.25	30.00	Pass
HE20	MCS0	4	64	5320	Full	17.07	17.22	16.85	16.84	23.02	23.98	5.09	28.11	30.00	Pass
HE40	MCS0	4	54	5270	Full	17.66	18.32	17.50	17.27	23.73	23.98	5.09	28.82	30.00	Pass
HE40	MCS0	4	62	5310	Full	17.47	17.92	17.35	17.22	23.52	23.98	5.09	28.61	30.00	Pass
HE80	MCS0	4	58	5290	Full	16.81	17.61	17.07	16.77	23.10	23.98	5.09	28.19	30.00	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
HE20	MCS0	4	100	5500	Full	16.29	16.86	16.57	16.59	22.60	23.98	4.46	27.06	30.00	Pass
HE20	MCS0	4	116	5580	Full	16.70	17.15	16.68	16.69	22.83	23.98	4.46	27.29	30.00	Pass
HE20	MCS0	4	140	5700	Full	16.83	17.62	16.82	16.75	23.04	23.98	4.46	27.50	30.00	Pass
HE40	MCS0	4	102	5510	Full	17.27	17.55	17.56	17.30	23.44	23.98	4.46	27.90	30.00	Pass
HE40	MCS0	4	110	5550	Full	17.11	17.87	17.57	17.31	23.49	23.98	4.46	27.95	30.00	Pass
HE40	MCS0	4	134	5670	Full	16.86	17.57	17.04	16.89	23.12	23.98	4.46	27.58	30.00	Pass
HE80	MCS0	4	106	5530	Full	17.30	17.64	17.38	17.44	23.46	23.98	4.46	27.92	30.00	Pass
HE80	MCS0	4	122	5610	Full	17.24	17.56	17.18	17.19	23.32	23.98	4.46	27.78	30.00	Pass
HE160	MCS0	4	114	5570	Full	17.32	17.90	17.64	17.28	23.56	23.98	4.46	28.02	30.00	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
HE20	MCS0	4	144	5720	Full	16.48	17.20	16.61	16.48	22.72	23.10	4.46	27.18	30.00	Pass
HE40	MCS0	4	142	5710	Full	16.53	17.33	16.75	16.60	22.83	23.98	4.46	27.29	30.00	Pass
HE80	MCS0	4	138	5690	Full	17.45	18.04	17.25	17.49	23.59	23.98	4.46	28.05	30.00	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
HE20	MCS0	4	149	5745	Full	23.42	23.61	23.31	23.60	29.51	30.00	4.04	Pass
HE20	MCS0	4	157	5785	Full	23.40	23.43	23.38	23.31	29.40	30.00	4.04	Pass
HE20	MCS0	4	165	5825	Full	22.94	23.59	23.06	22.85	29.14	30.00	4.04	Pass
HE40	MCS0	4	151	5755	Full	23.10	23.24	22.99	23.31	29.18	30.00	4.04	Pass
HE40	MCS0	4	159	5795	Full	22.78	23.00	22.83	22.90	28.90	30.00	4.04	Pass
HE80	MCS0	4	155	5775	Full	23.48	23.48	23.38	23.46	29.47	30.00	4.04	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
EHT20	MCS0	4	36	5180	Full	22.64	23.52	23.28	22.96	19.15	19.20	19.16	19.21	22.82
EHT20	MCS0	4	44	5220	Full	23.36	23.20	25.04	24.00	19.25	19.25	19.25	19.22	22.84
EHT20	MCS0	4	48	5240	Full	23.60	23.04	23.44	23.84	19.19	19.20	19.23	19.25	22.83
EHT40	MCS0	4	38	5190	Full	46.08	46.24	45.92	45.92	38.52	38.55	38.52	38.43	23.01
EHT40	MCS0	4	46	5230	Full	45.92	47.36	45.44	46.08	38.66	38.61	38.59	38.50	23.01
EHT80	MCS0	4	42	5210	Full	90.24	90.56	91.52	91.20	77.85	77.87	77.74	77.80	23.01
EHT160	MCS0	4	50	5250	Full	174.24	174.24	172.80	170.88	157.84	157.75	157.73	157.63	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	36	5180	Full	21.36	22.01	21.78	21.68	27.73	30.00	4.22	Pass
EHT20	MCS0	4	36	5180	OFDMA RU52*4	20.03	20.84	20.02	20.50	26.38	30.00	4.22	Pass
EHT20	MCS0	4	44	5220	Full	22.88	23.36	23.39	23.11	29.21	30.00	4.22	Pass
EHT20	MCS0	4	44	5220	OFDMA RU52*4	21.39	21.73	21.50	21.45	27.54	30.00	4.22	Pass
EHT20	MCS0	4	48	5240	Full	22.51	23.21	22.87	22.71	28.85	30.00	4.22	Pass
EHT20	MCS0	4	48	5240	OFDMA RU52*4	21.51	22.01	21.50	21.44	27.64	30.00	4.22	Pass
EHT40	MCS0	4	38	5190	Full	19.01	19.49	19.13	19.11	25.21	30.00	4.22	Pass
EHT40	MCS0	4	38	5190	OFDMA RU52*8	17.14	17.35	17.10	16.95	23.16	30.00	4.22	Pass
EHT40	MCS0	4	46	5230	Full	23.01	23.50	23.42	23.09	29.28	30.00	4.22	Pass
EHT40	MCS0	4	46	5230	OFDMA RU52*8	21.83	22.21	22.03	21.68	27.96	30.00	4.22	Pass
EHT80	MCS0	4	42	5210	Full	16.96	17.26	17.29	16.96	23.14	30.00	4.22	Pass
EHT80	MCS0	4	42	5210	OFDMA RU106*8	16.07	16.60	16.78	16.56	22.53	30.00	4.22	Pass
EHT80	MCS0	4	42	5210	Pincture20_4	15.97	16.35	16.56	16.42	22.35	30.00	4.22	Pass
EHT160	MCS0	4	50	5250	Full	17.78	18.36	17.91	17.67	23.96	30.00	4.22	Pass
EHT160	MCS0	4	50	5250	OFDMA RU242*8	15.41	15.86	15.80	15.44	21.65	30.00	4.22	Pass
EHT160	MCS0	4	50	5250	Puncture20_1	16.47	16.79	16.62	16.44	22.60	30.00	4.22	Pass
EHT160	MCS0	4	50	5250	Puncture20_8	17.02	17.44	17.13	17.15	23.21	30.00	4.22	Pass
EHT160	MCS0	4	50	5250	Puncture40_1	16.16	16.53	16.19	16.17	22.29	30.00	4.22	Pass
EHT160	MCS0	4	50	5250	Puncture40_4	16.55	17.08	16.77	16.75	22.81	30.00	4.22	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor(dBm)				Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	36	5180	Full	0.10	0.03	0.08	0.03	15.27	17.00	5.77	Pass
EHT20	MCS0	4	36	5180	OFDMA RU52*4	0.43	0.43	0.43	0.43	15.12	17.00	5.77	Pass
EHT20	MCS0	4	44	5220	Full	0.10	0.03	0.08	0.03	16.76	17.00	5.77	Pass
EHT20	MCS0	4	44	5220	OFDMA RU52*4	0.43	0.43	0.43	0.43	16.23	17.00	5.77	Pass
EHT20	MCS0	4	48	5240	Full	0.10	0.03	0.08	0.03	16.43	17.00	5.77	Pass
EHT20	MCS0	4	48	5240	OFDMA RU52*4	0.43	0.43	0.43	0.43	16.18	17.00	5.77	Pass
EHT40	MCS0	4	38	5190	Full	0.03	0.08	0.05	0.06	9.47	17.00	5.77	Pass
EHT40	MCS0	4	38	5190	OFDMA RU52*8	0.49	0.47	0.49	0.46	8.91	17.00	5.77	Pass
EHT40	MCS0	4	46	5230	Full	0.03	0.08	0.05	0.06	14.24	17.00	5.77	Pass
EHT40	MCS0	4	46	5230	OFDMA RU52*8	0.49	0.47	0.49	0.46	14.16	17.00	5.77	Pass
EHT80	MCS0	4	42	5210	Full	0.06	0.06	0.06	0.10	6.27	17.00	5.77	Pass
EHT80	MCS0	4	42	5210	OFDMA RU106*8	0.39	0.41	0.39	0.39	5.70	17.00	5.77	Pass
EHT80	MCS0	4	42	5210	Pincture20_4	0.10	0.13	0.11	0.10	6.25	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	Full	0.13	0.12	0.13	0.10	3.67	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	OFDMA RU242*8	1.23	1.24	1.25	1.26	3.15	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	Puncture20_1	0.07	0.12	0.07	0.12	2.90	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	Puncture20_8	0.07	0.12	0.07	0.12	3.10	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	Puncture40_1	0.14	0.06	0.14	0.14	3.09	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	Puncture40_4	0.14	0.06	0.14	0.14	3.24	17.00	5.77	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	Note
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	52	5260	Full	23.36	22.96	23.20	23.76	23.98	
EHT20	MCS0	4	60	5300	Full	22.96	22.88	23.44	23.04	23.98	
EHT20	MCS0	4	64	5320	Full	23.20	22.80	23.44	23.20	23.98	
EHT40	MCS0	4	54	5270	Full	45.60	46.24	45.44	45.44	23.98	
EHT40	MCS0	4	62	5310	Full	45.28	45.92	45.12	45.28	23.98	
EHT80	MCS0	4	58	5290	Full	90.56	90.56	89.60	90.88	23.98	

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)			
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1	Ant 2	Ant 3	Ant 4
EHT20	MCS0	4	52	5260	Full	19.17	19.18	19.23	19.24	23.83	29.83			
EHT20	MCS0	4	60	5300	Full	19.20	19.17	19.21	19.21	23.83	29.83			
EHT20	MCS0	4	64	5320	Full	19.17	19.17	19.21	19.25	23.83	29.83			
EHT40	MCS0	4	54	5270	Full	38.55	38.59	38.57	38.52	23.98	30.00			
EHT40	MCS0	4	62	5310	Full	38.42	38.52	38.49	38.46	23.98	30.00			
EHT80	MCS0	4	58	5290	Full	77.78	77.85	77.94	77.83	23.98	30.00			

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4		
EHT20	MCS0	4	52	5260	Full	17.55	17.85	17.57	17.45	23.63	23.98	5.09	28.72	30.00	Pass
EHT20	MCS0	4	52	5260	OFDMA RU52*4	15.93	16.26	15.77	15.74	21.95	23.98	5.09	27.04	30.00	Pass
EHT20	MCS0	4	60	5300	Full	17.02	17.58	17.06	17.00	23.19	23.98	5.09	28.28	30.00	Pass
EHT20	MCS0	4	60	5300	OFDMA RU52*4	15.83	16.01	15.28	15.40	21.66	23.98	5.09	26.75	30.00	Pass
EHT20	MCS0	4	64	5320	Full	17.09	17.30	16.98	16.96	23.11	23.98	5.09	28.20	30.00	Pass
EHT20	MCS0	4	64	5320	OFDMA RU52*4	15.52	15.69	15.50	15.41	21.55	23.98	5.09	26.64	30.00	Pass
EHT40	MCS0	4	54	5270	Full	17.53	18.32	17.66	17.54	23.80	23.98	5.09	28.89	30.00	Pass
EHT40	MCS0	4	54	5270	OFDMA RU52*8	16.09	16.52	15.95	15.67	22.09	23.98	5.09	27.18	30.00	Pass
EHT40	MCS0	4	62	5310	Full	17.51	17.96	17.51	17.34	23.61	23.98	5.09	28.70	30.00	Pass
EHT40	MCS0	4	62	5310	OFDMA RU52*8	16.66	16.83	16.41	16.13	22.54	23.98	5.09	27.63	30.00	Pass
EHT80	MCS0	4	58	5290	Full	16.91	17.58	17.21	17.07	23.22	23.98	5.09	28.31	30.00	Pass
EHT80	MCS0	4	58	5290	OFDMA RU106*8	15.64	16.10	15.45	15.31	21.66	23.98	5.09	26.75	30.00	Pass
EHT80	MCS0	4	58	5290	Puncture20_1	15.19	15.81	15.29	15.10	21.38	23.98	5.09	26.47	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor(dBm)				Average Power Density with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	52	5260	Full	0.10	0.03	0.08	0.03	10.92	11.00	5.83	Pass
EHT20	MCS0	4	52	5260	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.56	11.00	5.83	Pass
EHT20	MCS0	4	60	5300	Full	0.10	0.03	0.08	0.03	10.75	11.00	5.83	Pass
EHT20	MCS0	4	60	5300	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.30	11.00	5.83	Pass
EHT20	MCS0	4	64	5320	Full	0.10	0.03	0.08	0.03	10.66	11.00	5.83	Pass
EHT20	MCS0	4	64	5320	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.18	11.00	5.83	Pass
EHT40	MCS0	4	54	5270	Full	0.03	0.08	0.05	0.06	8.23	11.00	5.83	Pass
EHT40	MCS0	4	54	5270	OFDMA RU52*8	0.49	0.47	0.49	0.46	7.81	11.00	5.83	Pass
EHT40	MCS0	4	62	5310	Full	0.03	0.08	0.05	0.06	8.28	11.00	5.83	Pass
EHT40	MCS0	4	62	5310	OFDMA RU52*8	0.49	0.47	0.49	0.46	8.19	11.00	5.83	Pass
EHT80	MCS0	4	58	5290	Full	0.06	0.06	0.06	0.10	5.04	11.00	5.83	Pass
EHT80	MCS0	4	58	5290	OFDMA RU106*4	0.39	0.41	0.39	0.39	4.52	11.00	5.83	Pass
EHT80	MCS0	4	58	5290	Puncture20_1	0.10	0.13	0.11	0.10	4.88	11.00	5.83	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
EHT20	MCS0	4	100	5500	Full	23.04	23.12	23.20	23.84	23.98	----	----	----	----
EHT20	MCS0	4	116	5580	Full	22.64	22.88	23.60	23.52	23.98	----	----	----	----
EHT20	MCS0	4	140	5700	Full	23.28	22.88	23.12	23.52	23.98	----	----	----	----
EHT40	MCS0	4	102	5510	Full	45.60	45.12	45.12	45.76	23.98	----	----	----	----
EHT40	MCS0	4	110	5550	Full	45.60	46.24	45.76	46.24	23.98	----	----	----	----
EHT40	MCS0	4	134	5670	Full	45.76	45.44	45.28	46.08	23.98	----	----	----	----
EHT80	MCS0	4	106	5530	Full	90.24	88.96	90.56	89.60	23.98	----	----	----	----
EHT80	MCS0	4	122	5610	Full	90.88	91.52	91.84	91.52	23.98	----	----	----	----
EHT160	MCS0	4	114	5570	Full	174.72	171.36	172.80	170.88	23.98	----	----	----	----

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
EHT20	MCS0	4	144	5720	Full	16.76	16.52	16.36	16.20	23.10	4.60	4.55	4.55	4.60
EHT40	MCS0	4	142	5710	Full	37.24	38.04	37.24	37.56	23.98	4.26	4.26	4.17	4.17
EHT80	MCS0	4	138	5690	Full	81.08	80.44	80.44	80.44	23.98	4.20	4.36	4.36	4.20

Band III MIMO 4Tx Mode Ant A + B + C + D											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
EHT20	MCS0	4	100	5500	Full	19.16	19.19	19.22	19.27	23.82	29.82
EHT20	MCS0	4	116	5580	Full	19.19	19.22	19.21	19.21	23.83	29.83
EHT20	MCS0	4	140	5700	Full	19.18	19.20	19.18	19.22	23.83	29.83
EHT40	MCS0	4	102	5510	Full	38.57	38.63	38.48	38.46	23.98	30.00
EHT40	MCS0	4	110	5550	Full	38.48	38.44	38.48	38.50	23.98	30.00
EHT40	MCS0	4	134	5670	Full	38.62	38.52	38.54	38.59	23.98	30.00
EHT80	MCS0	4	106	5530	Full	77.65	77.82	77.76	77.74	23.98	30.00
EHT80	MCS0	4	122	5610	Full	77.81	77.74	77.84	77.78	23.98	30.00
EHT160	MCS0	4	114	5570	Full	157.17	157.08	157.45	156.94	23.98	30.00

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
EHT20	MCS0	4	144	5720	Full	14.59	14.62	14.61	14.60	22.64	28.64
EHT40	MCS0	4	142	5710	Full	34.26	34.21	34.23	34.25	23.98	30.00
EHT80	MCS0	4	138	5690	Full	73.95	73.92	73.95	73.96	23.98	30.00

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
EHT20	MCS0	4	100	5500	Full	16.50	16.88	16.79	16.57	22.71	23.98	4.46	27.17	30.00	Pass
EHT20	MCS0	4	100	5500	OFDMA RU52*4	15.38	15.62	15.44	15.41	21.48	23.98	4.46	25.94	30.00	Pass
EHT20	MCS0	4	116	5580	Full	16.67	17.15	16.82	16.73	22.87	23.98	4.46	27.33	30.00	Pass
EHT20	MCS0	4	116	5580	OFDMA RU52*4	15.83	16.03	15.72	15.59	21.82	23.98	4.46	26.28	30.00	Pass
EHT20	MCS0	4	140	5700	Full	16.81	17.65	16.95	16.73	23.07	23.98	4.46	27.53	30.00	Pass
EHT20	MCS0	4	140	5700	OFDMA RU52*4	15.83	16.36	15.79	15.61	21.93	23.98	4.46	26.39	30.00	Pass
EHT40	MCS0	4	102	5510	Full	17.33	17.63	17.47	17.34	23.46	23.98	4.46	27.92	30.00	Pass
EHT40	MCS0	4	102	5510	OFDMA RU52*8	15.84	15.88	15.64	15.55	21.75	23.98	4.46	26.21	30.00	Pass
EHT40	MCS0	4	110	5550	Full	17.21	17.85	17.66	17.27	23.53	23.98	4.46	27.99	30.00	Pass
EHT40	MCS0	4	110	5550	OFDMA RU52*8	15.86	16.00	16.00	15.58	21.88	23.98	4.46	26.34	30.00	Pass
EHT40	MCS0	4	134	5670	Full	17.25	17.86	17.53	17.22	23.49	23.98	4.46	27.95	30.00	Pass
EHT40	MCS0	4	134	5670	OFDMA RU52*8	15.81	16.14	15.69	15.45	21.80	23.98	4.46	26.26	30.00	Pass
EHT80	MCS0	4	106	5530	Full	17.27	17.75	17.60	17.47	23.55	23.98	4.46	28.01	30.00	Pass
EHT80	MCS0	4	106	5530	OFDMA RU106*8	16.26	16.38	16.24	16.10	22.27	23.98	4.46	26.73	30.00	Pass
EHT80	MCS0	4	106	5530	Puncture20_4	15.80	16.06	16.04	15.91	21.97	23.98	4.46	26.43	30.00	Pass
EHT80	MCS0	4	122	5610	Full	17.27	17.64	17.38	17.18	23.39	23.98	4.46	27.85	30.00	Pass
EHT80	MCS0	4	122	5610	OFDMA RU106*8	16.36	16.37	16.16	16.08	22.26	23.98	4.46	26.72	30.00	Pass
EHT80	MCS0	4	122	5610	Puncture20_1	15.93	16.05	15.82	15.53	21.86	23.98	4.46	26.32	30.00	Pass
EHT160	MCS0	4	114	5570	Full	17.37	17.98	17.75	17.23	23.61	23.98	4.46	28.07	30.00	Pass
EHT160	MCS0	4	114	5570	OFDMA RU242*8	16.24	16.62	16.21	15.97	22.29	23.98	4.46	26.75	30.00	Pass
EHT160	MCS0	4	114	5570	Puncture20_1	16.65	17.23	16.81	16.67	22.87	23.98	4.46	27.33	30.00	Pass
EHT160	MCS0	4	114	5570	Puncture20_8	16.53	17.08	16.81	16.53	22.76	23.98	4.46	27.22	30.00	Pass
EHT160	MCS0	4	114	5570	Puncture40_1	16.24	16.85	16.35	16.26	22.45	23.98	4.46	26.91	30.00	Pass
EHT160	MCS0	4	114	5570	Puncture40_4	16.10	16.51	16.24	16.09	22.26	23.98	4.46	26.72	30.00	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
EHT20	MCS0	4	144	5720	Full	16.48	17.17	16.75	16.48	22.75	23.10	4.46	27.21	30.00	Pass
EHT20	MCS0	4	144	5720	OFDMA RU52*4	15.56	16.13	15.41	15.40	21.66	23.10	4.46	26.12	30.00	Pass
EHT40	MCS0	4	142	5710	Full	16.98	17.80	17.12	16.87	23.23	23.98	4.46	27.69	30.00	Pass
EHT40	MCS0	4	142	5710	OFDMA RU52*8	15.49	15.99	15.52	15.47	21.64	23.98	4.46	26.10	30.00	Pass
EHT80	MCS0	4	138	5690	Full	17.45	18.04	17.40	17.43	23.61	23.98	4.46	28.07	30.00	Pass
EHT80	MCS0	4	138	5690	OFDMA RU106*4	16.29	16.65	16.08	16.30	22.36	23.98	4.46	26.82	30.00	Pass
EHT80	MCS0	4	138	5690	Puncture20_1	15.78	16.29	15.79	15.62	21.90	23.98	4.46	26.36	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band III MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor(dBm)				Average Power Density with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	100	5500	Full	0.10	0.03	0.08	0.03	10.53	11.00	5.95	Pass
EHT20	MCS0	4	100	5500	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.34	11.00	5.95	Pass
EHT20	MCS0	4	116	5580	Full	0.10	0.03	0.08	0.03	10.38	11.00	5.95	Pass
EHT20	MCS0	4	116	5580	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.35	11.00	5.95	Pass
EHT20	MCS0	4	140	5700	Full	0.10	0.03	0.08	0.03	10.74	11.00	5.95	Pass
EHT20	MCS0	4	140	5700	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.45	11.00	5.95	Pass
EHT40	MCS0	4	102	5510	Full	0.03	0.08	0.05	0.06	8.54	11.00	5.95	Pass
EHT40	MCS0	4	102	5510	OFDMA RU52*8	0.49	0.47	0.49	0.46	7.90	11.00	5.95	Pass
EHT40	MCS0	4	110	5550	Full	0.03	0.08	0.05	0.06	8.21	11.00	5.95	Pass
EHT40	MCS0	4	110	5550	OFDMA RU52*8	0.49	0.47	0.49	0.46	7.64	11.00	5.95	Pass
EHT40	MCS0	4	134	5670	Full	0.03	0.08	0.05	0.06	8.10	11.00	5.95	Pass
EHT40	MCS0	4	134	5670	OFDMA RU52*8	0.49	0.47	0.49	0.46	7.64	11.00	5.95	Pass
EHT80	MCS0	4	106	5530	Full	0.06	0.06	0.06	0.10	5.85	11.00	5.95	Pass
EHT80	MCS0	4	106	5530	OFDMA RU106*8	0.39	0.41	0.39	0.39	5.43	11.00	5.95	Pass
EHT80	MCS0	4	106	5530	Puncture20_4	0.10	0.13	0.11	0.10	5.53	11.00	5.95	Pass
EHT80	MCS0	4	122	5610	Full	0.06	0.06	0.06	0.10	5.30	11.00	5.95	Pass
EHT80	MCS0	4	122	5610	OFDMA RU106*8	0.39	0.41	0.39	0.39	5.03	11.00	5.95	Pass
EHT80	MCS0	4	122	5610	Puncture20_1	0.10	0.13	0.11	0.10	5.22	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	Full	0.13	0.12	0.13	0.10	2.90	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	OFDMA RU242*8	1.23	1.24	1.25	1.26	2.63	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	Puncture20_1	0.07	0.12	0.07	0.12	2.44	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	Puncture20_8	0.07	0.12	0.07	0.12	2.37	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	Puncture40_1	0.14	0.06	0.14	0.14	2.65	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	Puncture40_4	0.14	0.06	0.14	0.14	2.64	11.00	5.95	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor(dBm)				Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	144	5720	Full	0.10	0.03	0.08	0.03	10.36	11.00	5.95	Pass
EHT20	MCS0	4	144	5720	OFDMA RU52*4	0.43	0.43	0.43	0.43	10.29	11.00	5.95	Pass
EHT40	MCS0	4	142	5710	Full	0.03	0.08	0.05	0.06	8.02	11.00	5.95	Pass
EHT40	MCS0	4	142	5710	OFDMA RU52*8	0.49	0.47	0.49	0.46	7.69	11.00	5.95	Pass
EHT80	MCS0	4	138	5690	Full	0.06	0.06	0.06	0.10	5.65	11.00	5.95	Pass
EHT80	MCS0	4	138	5690	OFDMA RU106*4	0.39	0.41	0.39	0.39	5.25	11.00	5.95	Pass
EHT80	MCS0	4	138	5690	Puncture20_1	0.10	0.13	0.11	0.10	5.24	11.00	5.95	Pass

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant A + B + C + D																			
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D		
EHT20	MCS0	4	149	5745	Full	23.28	23.20	23.44	24.56	19.10	19.15	19.00	19.10	19.18	19.21	19.17	19.20	0.5	Pass
EHT20	MCS0	4	157	5785	Full	23.36	23.12	23.52	24.80	19.10	19.10	19.10	19.10	19.17	19.20	19.18	19.18	0.5	Pass
EHT20	MCS0	4	165	5825	Full	23.36	23.04	23.36	23.68	19.05	19.10	19.10	19.05	19.22	19.27	19.15	19.25	0.5	Pass
EHT40	MCS0	4	151	5755	Full	46.08	45.60	45.44	46.56	38.34	38.52	38.34	38.25	38.44	38.46	38.56	38.55	0.5	Pass
EHT40	MCS0	4	159	5795	Full	45.92	46.40	45.28	46.24	38.43	38.43	38.43	38.25	38.59	38.62	38.68	38.55	0.5	Pass
EHT80	MCS0	4	155	5775	Full	90.56	90.88	90.88	91.52	77.92	78.24	78.40	77.60	77.90	77.75	77.97	77.94	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	149	5745	Full	23.47	23.74	23.42	23.49	29.55	30.00	4.04	Pass
EHT20	MCS0	4	149	5745	OFDMA RU52*4	22.58	23.06	22.66	22.83	28.81	30.00	4.04	Pass
EHT20	MCS0	4	157	5785	Full	23.40	23.45	23.47	23.25	29.41	30.00	4.04	Pass
EHT20	MCS0	4	157	5785	OFDMA RU52*4	22.05	22.32	22.21	22.27	28.23	30.00	4.04	Pass
EHT20	MCS0	4	165	5825	Full	23.00	23.63	23.09	22.92	29.19	30.00	4.04	Pass
EHT20	MCS0	4	165	5825	OFDMA RU52*4	22.28	22.84	22.41	22.30	28.48	30.00	4.04	Pass
EHT40	MCS0	4	151	5755	Full	23.48	23.57	23.36	23.43	29.48	30.00	4.04	Pass
EHT40	MCS0	4	151	5755	OFDMA RU52*8	22.20	22.39	22.18	22.47	28.33	30.00	4.04	Pass
EHT40	MCS0	4	159	5795	Full	23.14	23.35	23.18	23.09	29.21	30.00	4.04	Pass
EHT40	MCS0	4	159	5795	OFDMA RU52*8	21.65	21.95	21.94	22.08	27.93	30.00	4.04	Pass
EHT80	MCS0	4	155	5775	Full	23.46	23.59	23.54	23.40	29.52	30.00	4.04	Pass
EHT80	MCS0	4	155	5775	OFDMA RU106*4	22.06	22.17	22.28	22.47	28.27	30.00	4.04	Pass
EHT80	MCS0	4	155	5775	Puncture20_4	22.00	21.83	21.94	22.28	28.04	30.00	4.04	Pass
EHT80	MCS0	4	155	5775	Puncture20_1	21.59	21.58	21.71	21.71	27.67	30.00	4.04	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant A + B + C + D																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor(dBm)				Average Power Density with Duty Factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	149	5745	Full	0.10	0.03	0.08	0.03	7.79	8.22	7.96	7.83	14.24	30.00	5.95	Pass
EHT20	MCS0	4	149	5745	OFDMA RU52*4	0.43	0.43	0.43	0.43	7.61	7.90	7.64	7.58	13.92	30.00	5.95	Pass
EHT20	MCS0	4	157	5785	Full	0.10	0.03	0.08	0.03	8.08	8.18	8.00	7.69	14.20	30.00	5.95	Pass
EHT20	MCS0	4	157	5785	OFDMA RU52*4	0.43	0.43	0.43	0.43	7.03	7.59	7.27	7.12	13.61	30.00	5.95	Pass
EHT20	MCS0	4	165	5825	Full	0.10	0.03	0.08	0.03	7.55	8.30	7.50	7.26	14.32	30.00	5.95	Pass
EHT20	MCS0	4	165	5825	OFDMA RU52*4	0.43	0.43	0.43	0.43	7.26	8.12	7.09	7.42	14.14	30.00	5.95	Pass
EHT40	MCS0	4	151	5755	Full	0.03	0.08	0.05	0.06	5.40	5.32	5.40	5.62	11.64	30.00	5.95	Pass
EHT40	MCS0	4	151	5755	OFDMA RU52*8	0.49	0.47	0.49	0.46	4.25	4.77	4.24	5.13	11.15	30.00	5.95	Pass
EHT40	MCS0	4	159	5795	Full	0.03	0.08	0.05	0.06	5.11	5.28	5.34	5.30	11.36	30.00	5.95	Pass
EHT40	MCS0	4	159	5795	OFDMA RU52*8	0.49	0.47	0.49	0.46	4.09	3.90	3.81	4.72	10.74	30.00	5.95	Pass
EHT80	MCS0	4	155	5775	Full	0.06	0.06	0.06	0.10	3.13	2.89	2.75	3.20	9.22	30.00	5.95	Pass
EHT80	MCS0	4	155	5775	OFDMA RU106*4	0.39	0.41	0.39	0.39	2.17	2.18	2.02	2.73	8.75	30.00	5.95	Pass
EHT80	MCS0	4	155	5775	Puncture20_4	0.10	0.13	0.11	0.10	2.44	2.26	2.15	2.94	8.96	30.00	5.95	Pass
EHT80	MCS0	4	155	5775	Puncture20_1	0.10	0.13	0.11	0.10	2.33	2.21	2.45	2.92	8.94	30.00	5.95	Pass

Note: PSD Sum = Max PSD(Ant. A, Ant. B, Ant. C, Ant. D) + 10 log (n)

<TXBF Mode>

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
VHT20	MCS0	4	36	5180	22.64	22.16	22.64	22.72	18.08	18.03	18.03	18.03	22.56
VHT20	MCS0	4	44	5220	22.24	22.16	22.56	22.16	18.03	17.78	17.78	17.88	22.50
VHT20	MCS0	4	48	5240	22.08	21.92	21.84	22.48	17.73	17.88	17.78	17.88	22.49
VHT40	MCS0	4	38	5190	45.76	45.12	45.76	44.96	38.06	36.96	37.16	37.36	23.01
VHT40	MCS0	4	46	5230	45.28	44.00	43.68	45.60	36.66	36.96	36.86	37.66	23.01
VHT80	MCS0	4	42	5210	84.48	88.64	85.76	87.36	76.12	76.72	76.72	76.72	23.01
VHT160	MCS0	4	50	5250	166.08	173.28	167.52	167.04	156.08	157.28	156.32	156.32	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
HT20	MCS0	4	36	5180	18.50	18.70	18.60	18.60	24.62	30.00	5.77	Pass
HT20	MCS0	4	44	5220	22.00	22.10	22.00	22.20	28.10	30.00	5.77	Pass
HT20	MCS0	4	48	5240	21.60	21.80	21.70	21.70	27.72	30.00	5.77	Pass
HT40	MCS0	4	38	5190	17.00	17.20	16.90	17.00	23.05	30.00	5.77	Pass
HT40	MCS0	4	46	5230	20.00	20.20	20.20	19.90	26.10	30.00	5.77	Pass
VHT20	MCS0	4	36	5180	18.60	18.80	18.70	18.70	24.72	30.00	5.77	Pass
VHT20	MCS0	4	44	5220	22.10	22.20	22.10	22.30	28.20	30.00	5.77	Pass
VHT20	MCS0	4	48	5240	21.70	21.90	21.80	21.80	27.82	30.00	5.77	Pass
VHT40	MCS0	4	38	5190	17.10	17.30	17.00	17.10	23.15	30.00	5.77	Pass
VHT40	MCS0	4	46	5230	20.10	20.30	20.30	20.00	26.20	30.00	5.77	Pass
VHT80	MCS0	4	42	5210	17.20	16.90	17.00	17.00	23.05	30.00	5.77	Pass
VHT160	MCS0	4	50	5250	15.40	15.40	15.20	15.00	21.27	30.00	5.77	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
					Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
VHT20	MCS0	4	36	5180	14.96	17dBm	5.77	Pass
VHT20	MCS0	4	44	5220	16.63	17dBm	5.77	Pass
VHT20	MCS0	4	48	5240	16.35	17dBm	5.77	Pass
VHT40	MCS0	4	38	5190	12.11	17dBm	5.77	Pass
VHT40	MCS0	4	46	5230	14.88	17dBm	5.77	Pass
VHT80	MCS0	4	42	5210	11.62	17dBm	5.77	Pass
VHT160	MCS0	4	50	5250	9.25	17dBm	5.77	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	
VHT20	MCS0	4	52	5260	22.32	22.72	22.64	22.64	23.98	
VHT20	MCS0	4	60	5300	22.16	22.56	22.48	22.16	23.98	
VHT20	MCS0	4	64	5320	22.48	23.12	22.48	23.12	23.98	
VHT40	MCS0	4	54	5270	44.48	45.12	46.88	47.20	23.98	
VHT40	MCS0	4	62	5310	46.72	44.64	45.28	44.48	23.98	
VHT80	MCS0	4	58	5290	89.60	91.20	87.04	90.24	23.98	

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1	Ant 2	Ant 3	Ant 4
VHT20	MCS0	4	52	5260	17.83	18.08	17.98	18.18	23.51	29.51			
VHT20	MCS0	4	60	5300	18.23	18.03	18.03	17.93	23.54	29.54			
VHT20	MCS0	4	64	5320	17.88	18.18	17.93	18.08	23.52	29.52			
VHT40	MCS0	4	54	5270	37.46	36.96	37.86	37.46	23.98	30.00			
VHT40	MCS0	4	62	5310	37.36	36.76	37.36	36.56	23.98	30.00			
VHT80	MCS0	4	58	5290	76.24	76.36	76.12	76.12	23.98	30.00			

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4		
HT20	MCS0	4	52	5260	14.10	14.30	14.00	14.00	20.12	23.98	5.83	25.95	30.00	Pass
HT20	MCS0	4	60	5300	14.10	14.40	13.80	14.20	20.15	23.98	5.83	25.98	30.00	Pass
HT20	MCS0	4	64	5320	14.20	14.00	13.90	14.30	20.12	23.98	5.83	25.95	30.00	Pass
HT40	MCS0	4	54	5270	16.50	16.40	16.10	16.10	22.30	23.98	5.83	28.13	30.00	Pass
HT40	MCS0	4	62	5310	16.00	16.50	16.00	16.30	22.23	23.98	5.83	28.06	30.00	Pass
VHT20	MCS0	4	52	5260	14.20	14.40	14.10	14.10	20.22	23.98	5.83	26.05	30.00	Pass
VHT20	MCS0	4	60	5300	14.20	14.50	13.90	14.30	20.25	23.98	5.83	26.08	30.00	Pass
VHT20	MCS0	4	64	5320	14.30	14.10	14.00	14.40	20.22	23.98	5.83	26.05	30.00	Pass
VHT40	MCS0	4	54	5270	16.60	16.50	16.20	16.20	22.40	23.98	5.83	28.23	30.00	Pass
VHT40	MCS0	4	62	5310	16.10	16.60	16.10	16.40	22.33	23.98	5.83	28.16	30.00	Pass
VHT80	MCS0	4	58	5290	16.70	16.40	16.40	16.60	22.55	23.98	5.83	28.38	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
VHT20	MCS0	4	52	5260	10.06	11.00	5.83	Pass
VHT20	MCS0	4	60	5300	9.70	11.00	5.83	Pass
VHT20	MCS0	4	64	5320	10.13	11.00	5.83	Pass
VHT40	MCS0	4	54	5270	10.59	11.00	5.83	Pass
VHT40	MCS0	4	62	5310	10.70	11.00	5.83	Pass
VHT80	MCS0	4	58	5290	10.38	11.00	5.83	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
VHT20	MCS0	4	100	5500	22.96	22.64	22.80	22.40	23.98	----	----	----	----
VHT20	MCS0	4	116	5580	22.64	22.80	22.88	21.76	23.98	----	----	----	----
VHT20	MCS0	4	140	5700	22.80	22.96	22.64	22.40	23.98	----	----	----	----
VHT40	MCS0	4	102	5510	46.08	46.08	45.60	45.92	23.98	----	----	----	----
VHT40	MCS0	4	110	5550	45.12	44.96	45.12	44.32	23.98	----	----	----	----
VHT40	MCS0	4	134	5670	45.44	45.28	45.44	45.28	23.98	----	----	----	----
VHT80	MCS0	4	106	5530	84.16	87.04	85.76	86.72	23.98	----	----	----	----
VHT80	MCS0	4	122	5610	86.08	84.80	86.08	85.12	23.98	----	----	----	----
VHT160	MCS0	4	114	5570	169.44	168.48	168.48	167.04	23.98	----	----	----	----

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
VHT20	MCS0	4	144	5720	16.20	16.28	16.36	16.20	23.10	3.85	3.90	3.90	3.90
VHT40	MCS0	4	142	5710	37.40	37.24	37.40	38.20	23.98	2.91	3.09	3.18	2.73
VHT80	MCS0	4	138	5690	77.24	78.84	76.60	77.56	23.98	2.76	2.76	2.76	2.76

Band III MIMO 4Tx Mode Ant A + B + C + D										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
VHT20	MCS0	4	100	5500	18.08	18.13	18.03	18.03	23.56	29.56
VHT20	MCS0	4	116	5580	18.08	18.13	18.03	17.43	23.41	29.41
VHT20	MCS0	4	140	5700	18.13	18.03	18.08	17.93	23.54	29.54
VHT40	MCS0	4	102	5510	37.16	37.16	37.26	37.16	23.98	30.00
VHT40	MCS0	4	110	5550	37.06	37.06	36.96	37.06	23.98	30.00
VHT40	MCS0	4	134	5670	37.16	37.16	37.26	37.26	23.98	30.00
VHT80	MCS0	4	106	5530	76.36	76.24	76.48	76.36	23.98	30.00
VHT80	MCS0	4	122	5610	76.36	76.36	76.24	76.24	23.98	30.00
VHT160	MCS0	4	114	5570	156.56	156.80	156.56	156.80	23.98	30.00

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
VHT20	MCS0	4	144	5720	13.94	13.89	13.89	13.89	22.43	28.43
VHT40	MCS0	4	142	5710	33.48	33.58	33.84	33.48	23.98	30.00
VHT80	MCS0	4	138	5690	73.24	73.36	73.36	73.36	23.98	30.00

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO 4Tx Mode Ant A + B + C + D														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
HT20	MCS0	4	100	5500	14.60	14.40	14.80	14.90	20.70	23.98	5.95	26.65	30.00	Pass
HT20	MCS0	4	116	5580	14.90	14.90	14.90	15.20	21.00	23.98	5.95	26.95	30.00	Pass
HT20	MCS0	4	140	5700	14.80	15.00	14.70	14.80	20.85	23.98	5.95	26.80	30.00	Pass
HT40	MCS0	4	102	5510	16.60	16.40	16.70	16.70	22.62	23.98	5.95	28.57	30.00	Pass
HT40	MCS0	4	110	5550	15.20	15.40	15.50	15.30	21.37	23.98	5.95	27.32	30.00	Pass
HT40	MCS0	4	134	5670	15.50	15.50	15.50	15.40	21.50	23.98	5.95	27.45	30.00	Pass
VHT20	MCS0	4	100	5500	14.70	14.50	14.90	15.00	20.80	23.98	5.95	26.75	30.00	Pass
VHT20	MCS0	4	116	5580	15.00	15.00	15.00	15.30	21.10	23.98	5.95	27.05	30.00	Pass
VHT20	MCS0	4	140	5700	14.90	15.10	14.80	14.90	20.95	23.98	5.95	26.90	30.00	Pass
VHT40	MCS0	4	102	5510	16.70	16.50	16.80	16.80	22.72	23.98	5.95	28.67	30.00	Pass
VHT40	MCS0	4	110	5550	15.30	15.50	15.60	15.40	21.47	23.98	5.95	27.42	30.00	Pass
VHT40	MCS0	4	134	5670	15.60	15.60	15.60	15.50	21.60	23.98	5.95	27.55	30.00	Pass
VHT80	MCS0	4	106	5530	17.60	17.70	17.60	17.70	23.67	23.98	5.95	29.62	30.00	Pass
VHT80	MCS0	4	122	5610	16.00	16.00	16.10	16.10	22.07	23.98	5.95	28.02	30.00	Pass
VHT160	MCS0	4	114	5570	16.80	17.00	16.80	16.90	22.90	23.98	5.95	28.85	30.00	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
HT20	MCS0	4	144	5720	15.20	14.90	14.90	14.80	20.97	23.98	5.95	26.92	30.00	Pass
HT40	MCS0	4	142	5710	16.40	16.20	16.20	16.10	22.25	23.98	5.95	28.20	30.00	Pass
VHT20	MCS0	4	144	5720	15.30	15.00	15.00	14.90	21.07	23.10	5.95	27.02	30.00	Pass
VHT40	MCS0	4	142	5710	16.50	16.30	16.30	16.20	22.35	23.98	5.95	28.30	30.00	Pass
VHT80	MCS0	4	138	5690	16.50	16.40	16.60	16.80	22.60	23.98	5.95	28.55	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band III MIMO 4Tx Mode Ant A + B + C + D								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
VHT20	MCS0	4	100	5500	9.70	11.00	5.95	Pass
VHT20	MCS0	4	116	5580	10.39	11.00	5.95	Pass
VHT20	MCS0	4	140	5700	10.19	11.00	5.95	Pass
VHT40	MCS0	4	102	5510	9.90	11.00	5.95	Pass
VHT40	MCS0	4	110	5550	10.38	11.00	5.95	Pass
VHT40	MCS0	4	134	5670	10.38	11.00	5.95	Pass
VHT80	MCS0	4	106	5530	10.73	11.00	5.95	Pass
VHT80	MCS0	4	122	5610	10.59	11.00	5.95	Pass
VHT160	MCS0	4	114	5570	10.87	11.00	5.95	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
					Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
VHT20	MCS0	4	144	5720	10.24	11.00	5.95	Pass
VHT40	MCS0	4	142	5710	10.99	11.00	5.95	Pass
VHT80	MCS0	4	138	5690	10.89	11.00	5.95	Pass

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant A + B + C + D																		
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D		
VHT20	MCS0	4	149	5745	21.60	22.00	21.76	22.40	17.50	17.80	17.85	17.85	17.78	18.03	17.93	17.93	0.5	Pass
VHT20	MCS0	4	157	5785	22.08	22.64	21.76	22.08	17.90	17.85	17.90	17.70	17.93	17.98	17.98	17.73	0.5	Pass
VHT20	MCS0	4	165	5825	22.24	21.44	21.92	21.84	17.85	17.85	17.85	16.90	17.88	18.08	17.78	17.98	0.5	Pass
VHT40	MCS0	4	151	5755	44.64	46.56	44.8	44.32	35.91	36.09	36.54	36.27	37.06	37.06	37.16	36.96	0.5	Pass
VHT40	MCS0	4	159	5795	45.12	44.80	43.68	44.80	36.63	36.27	36.54	35.91	37.46	37.46	37.16	37.16	0.5	Pass
VHT80	MCS0	4	155	5775	84.48	83.20	83.2	84.48	76.70	76.06	75.90	76.16	76.84	76.84	76.24	76.48	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
HT20	MCS0	4	149	5745	22.90	22.70	23.10	23.00	28.95	30.00	5.95	Pass
HT20	MCS0	4	157	5785	22.00	21.90	22.00	22.20	28.05	30.00	5.95	Pass
HT20	MCS0	4	165	5825	23.90	24.20	23.30	23.70	29.81	30.00	5.95	Pass
HT40	MCS0	4	151	5755	23.40	22.70	23.40	23.50	29.28	30.00	5.95	Pass
HT40	MCS0	4	159	5795	22.50	22.50	22.20	22.50	28.45	30.00	5.95	Pass
VHT20	MCS0	4	149	5745	23.00	22.80	23.20	23.10	29.05	30.00	5.95	Pass
VHT20	MCS0	4	157	5785	22.10	22.00	22.10	22.30	28.15	30.00	5.95	Pass
VHT20	MCS0	4	165	5825	24.00	24.30	23.40	23.80	29.91	30.00	5.95	Pass
VHT40	MCS0	4	151	5755	23.50	22.80	23.50	23.60	29.38	30.00	5.95	Pass
VHT40	MCS0	4	159	5795	22.60	22.60	22.30	22.60	28.55	30.00	5.95	Pass
VHT80	MCS0	4	155	5775	23.80	23.60	23.70	24.00	29.80	30.00	5.95	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant A + B + C + D												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
					Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
VHT20	MCS0	4	149	5745	9.02	9.73	9.67	9.11	15.75	30.00	5.95	Pass
VHT20	MCS0	4	157	5785	8.17	9.27	9.21	8.14	15.29	30.00	5.95	Pass
VHT20	MCS0	4	165	5825	9.93	10.59	8.76	11.82	17.84	30.00	5.95	Pass
VHT40	MCS0	4	151	5755	8.82	8.30	8.88	9.02	15.04	30.00	5.95	Pass
VHT40	MCS0	4	159	5795	8.32	8.11	7.94	8.12	14.34	30.00	5.95	Pass
VHT80	MCS0	4	155	5775	8.59	8.61	9.23	9.19	15.25	30.00	5.95	Pass

Note: PSD Sum = Max PSD(Ant. A, Ant. B, Ant. C, Ant. D) + 10 log (n)

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
HE20	MCS0	4	36	5180	Full	18.80	19.00	18.70	18.90	24.87	30.00	5.77	Pass
HE20	MCS0	4	44	5220	Full	22.30	22.10	22.20	22.40	28.27	30.00	5.77	Pass
HE20	MCS0	4	48	5240	Full	21.80	22.00	21.90	21.80	27.90	30.00	5.77	Pass
HE40	MCS0	4	38	5190	Full	17.00	17.30	17.00	17.10	23.12	30.00	5.77	Pass
HE40	MCS0	4	46	5230	Full	20.20	20.30	20.30	20.10	26.25	30.00	5.77	Pass
HE80	MCS0	4	42	5210	Full	17.20	16.80	16.90	16.90	22.97	30.00	5.77	Pass
HE160	MCS0	4	50	5250	Full	15.40	15.40	15.10	14.90	21.23	30.00	5.77	Pass

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4		
HE20	MCS0	4	52	5260	Full	14.00	14.30	14.10	14.10	20.15	23.98	5.83	25.98	30.00	Pass
HE20	MCS0	4	60	5300	Full	14.30	14.50	13.90	14.40	20.30	23.98	5.83	26.13	30.00	Pass
HE20	MCS0	4	64	5320	Full	14.20	14.10	13.90	14.40	20.17	23.98	5.83	26.00	30.00	Pass
HE40	MCS0	4	54	5270	Full	16.60	16.40	16.10	16.20	22.35	23.98	5.83	28.18	30.00	Pass
HE40	MCS0	4	62	5310	Full	16.40	16.50	16.10	16.10	22.30	23.98	5.83	28.13	30.00	Pass
HE80	MCS0	4	58	5290	Full	16.70	16.40	16.30	16.50	22.50	23.98	5.83	28.33	30.00	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
HE20	MCS0	4	100	5500	Full	14.90	15.00	14.70	14.60	20.82	23.98	5.95	26.77	30.00	Pass
HE20	MCS0	4	116	5580	Full	15.20	15.20	15.10	15.20	21.20	23.98	5.95	27.15	30.00	Pass
HE20	MCS0	4	140	5700	Full	14.80	15.10	14.70	14.90	20.90	23.98	5.95	26.85	30.00	Pass
HE40	MCS0	4	102	5510	Full	16.90	17.40	17.30	17.30	23.25	23.98	5.95	29.20	30.00	Pass
HE40	MCS0	4	110	5550	Full	15.50	15.70	15.70	15.90	21.72	23.98	5.95	27.67	30.00	Pass
HE40	MCS0	4	134	5670	Full	15.60	15.80	15.80	16.00	21.82	23.98	5.95	27.77	30.00	Pass
HE80	MCS0	4	106	5530	Full	17.90	17.70	17.80	17.60	23.77	23.98	5.95	29.72	30.00	Pass
HE80	MCS0	4	122	5610	Full	15.90	16.00	15.90	16.10	22.00	23.98	5.95	27.95	30.00	Pass
HE160	MCS0	4	114	5570	Full	16.80	16.80	16.90	17.00	22.90	23.98	5.95	28.85	30.00	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
HE20	MCS0	4	144	5720	Full	15.30	15.60	15.20	15.20	21.35	23.01	5.95	27.30	30.00	Pass
HE40	MCS0	4	142	5710	Full	16.10	16.40	16.20	16.30	22.27	23.98	5.95	28.22	30.00	Pass
HE80	MCS0	4	138	5690	Full	16.60	16.90	16.50	16.60	22.67	23.98	5.95	28.62	30.00	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
HE20	MCS0	4	149	5745	Full	22.60	22.90	23.00	23.60	29.06	30.00	5.95	Pass
HE20	MCS0	4	157	5785	Full	22.60	22.50	23.20	23.40	28.96	30.00	5.95	Pass
HE20	MCS0	4	165	5825	Full	22.90	22.70	23.10	23.30	29.03	30.00	5.95	Pass
HE40	MCS0	4	151	5755	Full	22.80	23.20	23.40	23.40	29.23	30.00	5.95	Pass
HE40	MCS0	4	159	5795	Full	22.50	22.50	23.00	23.60	28.94	30.00	5.95	Pass
HE80	MCS0	4	155	5775	Full	23.30	23.10	23.50	23.90	29.48	30.00	5.95	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4
EHT20	MCS0	4	36	5180	Full	22.16	22.32	22.56	22.48	19.28	19.13	19.18	19.13	22.82
EHT20	MCS0	4	44	5220	Full	21.92	22.96	22.24	22.32	19.18	19.13	19.13	19.18	22.82
EHT20	MCS0	4	48	5240	Full	21.44	22.00	21.92	21.76	19.23	19.13	19.13	19.08	22.81
EHT40	MCS0	4	38	5190	Full	45.44	44.80	44.16	45.28	38.56	38.46	37.66	38.66	23.01
EHT40	MCS0	4	46	5230	Full	43.04	44.00	43.68	45.28	37.96	38.26	38.06	39.06	23.01
EHT80	MCS0	4	42	5210	Full	87.68	86.72	85.12	83.20	77.80	77.80	77.80	76.84	23.01
EHT160	MCS0	4	50	5250	Full	166.08	168.00	166.56	164.16	157.52	157.04	157.76	157.28	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	36	5180	Full	18.90	19.10	18.80	19.00	24.97	30.00	5.77	Pass
EHT20	MCS0	4	44	5220	Full	22.40	22.20	22.30	22.50	28.37	30.00	5.77	Pass
EHT20	MCS0	4	48	5240	Full	21.90	22.10	22.00	21.90	28.00	30.00	5.77	Pass
EHT40	MCS0	4	38	5190	Full	17.10	17.40	17.10	17.20	23.22	30.00	5.77	Pass
EHT40	MCS0	4	46	5230	Full	20.30	20.40	20.40	20.20	26.35	30.00	5.77	Pass
EHT80	MCS0	4	42	5210	Full	17.30	16.90	17.00	17.00	23.07	30.00	5.77	Pass
EHT160	MCS0	4	50	5250	Full	15.50	15.50	15.20	15.00	21.33	30.00	5.77	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	36	5180	Full	15.87	17.00	5.77	Pass
EHT20	MCS0	4	44	5220	Full	16.65	17.00	5.77	Pass
EHT20	MCS0	4	48	5240	Full	16.80	17.00	5.77	Pass
EHT40	MCS0	4	38	5190	Full	12.93	17.00	5.77	Pass
EHT40	MCS0	4	46	5230	Full	15.07	17.00	5.77	Pass
EHT80	MCS0	4	42	5210	Full	11.68	17.00	5.77	Pass
EHT160	MCS0	4	50	5250	Full	9.79	17.00	5.77	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	Note
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	52	5260	Full	22.24	22.40	22.24	22.48	23.98	
EHT20	MCS0	4	60	5300	Full	21.60	22.32	22.32	22.96	23.98	
EHT20	MCS0	4	64	5320	Full	21.92	22.08	22.56	22.48	23.98	
EHT40	MCS0	4	54	5270	Full	43.84	44.48	45.28	44.96	23.98	
EHT40	MCS0	4	62	5310	Full	44.48	44.80	43.84	44.80	23.98	
EHT80	MCS0	4	58	5290	Full	85.44	85.12	87.68	84.80	23.98	

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)			
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1 + 2 + 3 + 4	Ant 1	Ant 2	Ant 3	Ant 4
EHT20	MCS0	4	52	5260	Full	19.18	19.18	19.23	19.13	23.82	29.82			
EHT20	MCS0	4	60	5300	Full	18.98	19.13	19.23	19.23	23.78	29.78			
EHT20	MCS0	4	64	5320	Full	19.18	19.18	19.08	19.13	23.81	29.81			
EHT40	MCS0	4	54	5270	Full	38.16	38.26	38.46	38.86	23.98	30.00			
EHT40	MCS0	4	62	5310	Full	38.56	38.36	37.86	38.46	23.98	30.00			
EHT80	MCS0	4	58	5290	Full	77.56	77.68	77.20	77.08	23.98	30.00			

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4		
EHT20	MCS0	4	52	5260	Full	14.10	14.40	14.20	14.20	20.25	23.98	5.83	26.08	30.00	Pass
EHT20	MCS0	4	60	5300	Full	14.40	14.60	14.00	14.50	20.40	23.98	5.83	26.23	30.00	Pass
EHT20	MCS0	4	64	5320	Full	14.30	14.20	14.00	14.50	20.27	23.98	5.83	26.10	30.00	Pass
EHT40	MCS0	4	54	5270	Full	16.70	16.50	16.20	16.30	22.45	23.98	5.83	28.28	30.00	Pass
EHT40	MCS0	4	62	5310	Full	16.50	16.60	16.20	16.20	22.40	23.98	5.83	28.23	30.00	Pass
EHT80	MCS0	4	58	5290	Full	16.80	16.50	16.40	16.60	22.60	23.98	5.83	28.43	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO 4Tx Mode Ant 1 + 2 + 3 + 4									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	Ant 1 + 2 + 3 + 4	
EHT20	MCS0	4	52	5260	Full	10.73	11.00	5.83	Pass
EHT20	MCS0	4	60	5300	Full	10.76	11.00	5.83	Pass
EHT20	MCS0	4	64	5320	Full	10.27	11.00	5.83	Pass
EHT40	MCS0	4	54	5270	Full	10.67	11.00	5.83	Pass
EHT40	MCS0	4	62	5310	Full	10.71	11.00	5.83	Pass
EHT80	MCS0	4	58	5290	Full	10.79	11.00	5.83	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO 4Tx Mode Ant A + B + C + D														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
EHT20	MCS0	4	100	5500	Full	21.76	21.84	21.76	22.88	23.98	----	----	----	----
EHT20	MCS0	4	116	5580	Full	22.64	21.84	22.32	22.72	23.98	----	----	----	----
EHT20	MCS0	4	140	5700	Full	22.56	21.44	22.72	22.40	23.98	----	----	----	----
EHT40	MCS0	4	102	5510	Full	43.68	44.80	44.96	46.08	23.98	----	----	----	----
EHT40	MCS0	4	110	5550	Full	44.32	44.80	45.60	45.28	23.98	----	----	----	----
EHT40	MCS0	4	134	5670	Full	43.84	43.84	45.28	44.80	23.98	----	----	----	----
EHT80	MCS0	4	106	5530	Full	82.56	86.72	87.04	85.44	23.98	----	----	----	----
EHT80	MCS0	4	122	5610	Full	87.68	84.80	85.12	86.72	23.98	----	----	----	----
EHT160	MCS0	4	114	5570	Full	167.52	168.48	167.52	164.64	23.98	----	----	----	----

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26 dB Bandwidth (MHz)				FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)			
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A	Ant B	Ant C	Ant D
EHT20	MCS0	4	144	5720	Full	15.88	15.88	15.96	16.20	23.01	4.65	4.60	4.35	4.60
EHT40	MCS0	4	142	5710	Full	36.28	37.88	37.72	36.60	23.98	2.91	4.08	4.26	3.99
EHT80	MCS0	4	138	5690	Full	78.52	77.56	78.20	78.52	23.98	0.36	2.76	2.76	2.76

Band III MIMO 4Tx Mode Ant A + B + C + D											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
EHT20	MCS0	4	100	5500	Full	19.03	19.18	19.03	19.28	23.79	29.79
EHT20	MCS0	4	116	5580	Full	19.18	18.98	19.28	19.08	23.78	29.78
EHT20	MCS0	4	140	5700	Full	19.38	18.98	19.18	19.13	23.78	29.78
EHT40	MCS0	4	102	5510	Full	37.76	38.26	38.26	39.16	23.98	30.00
EHT40	MCS0	4	110	5550	Full	38.16	38.26	38.56	38.36	23.98	30.00
EHT40	MCS0	4	134	5670	Full	37.76	38.46	38.46	38.56	23.98	30.00
EHT80	MCS0	4	106	5530	Full	76.24	77.68	77.68	78.16	23.98	30.00
EHT80	MCS0	4	122	5610	Full	77.92	76.96	77.08	77.20	23.98	30.00
EHT160	MCS0	4	114	5570	Full	157.28	157.52	157.28	157.28	23.98	30.00

Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)				IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)
						Ant A	Ant B	Ant C	Ant D	Ant A + B + C + D	Ant A + B + C + D
EHT20	MCS0	4	144	5720	Full	14.49	14.74	14.69	14.54	22.61	28.61
EHT40	MCS0	4	142	5710	Full	33.58	34.38	34.18	33.78	23.98	30.00
EHT80	MCS0	4	138	5690	Full	73.96	73.60	73.24	73.96	23.98	30.00

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
EHT20	MCS0	4	100	5500	Full	15.00	15.10	14.80	14.70	20.92	23.98	5.95	26.87	30.00	Pass
EHT20	MCS0	4	116	5580	Full	15.30	15.30	15.20	15.30	21.30	23.98	5.95	27.25	30.00	Pass
EHT20	MCS0	4	140	5700	Full	14.90	15.20	14.80	15.00	21.00	23.98	5.95	26.95	30.00	Pass
EHT40	MCS0	4	102	5510	Full	17.00	17.50	17.40	17.40	23.35	23.98	5.95	29.30	30.00	Pass
EHT40	MCS0	4	110	5550	Full	15.60	15.80	15.80	16.00	21.82	23.98	5.95	27.77	30.00	Pass
EHT40	MCS0	4	134	5670	Full	15.70	15.90	15.90	16.10	21.92	23.98	5.95	27.87	30.00	Pass
EHT80	MCS0	4	106	5530	Full	18.00	17.80	17.90	17.70	23.87	23.98	5.95	29.82	30.00	Pass
EHT80	MCS0	4	122	5610	Full	16.00	16.10	16.00	16.20	22.10	23.98	5.95	28.05	30.00	Pass
EHT160	MCS0	4	114	5570	Full	16.90	16.90	17.00	17.10	23.00	23.98	5.95	28.95	30.00	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dB)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D		
EHT20	MCS0	4	144	5720	Full	15.40	15.70	15.30	15.30	21.45	23.01	5.95	27.40	30.00	Pass
EHT40	MCS0	4	142	5710	Full	16.20	16.50	16.30	16.40	22.37	23.98	5.95	28.32	30.00	Pass
EHT80	MCS0	4	138	5690	Full	16.70	17.00	16.60	16.70	22.77	23.98	5.95	28.72	30.00	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band III MIMO 4Tx Mode Ant A + B + C + D									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	100	5500	Full	10.46	11.00	5.95	Pass
EHT20	MCS0	4	116	5580	Full	10.69	11.00	5.95	Pass
EHT20	MCS0	4	140	5700	Full	10.43	11.00	5.95	Pass
EHT40	MCS0	4	102	5510	Full	10.85	11.00	5.95	Pass
EHT40	MCS0	4	110	5550	Full	10.31	11.00	5.95	Pass
EHT40	MCS0	4	134	5670	Full	10.35	11.00	5.95	Pass
EHT80	MCS0	4	106	5530	Full	10.89	11.00	5.95	Pass
EHT80	MCS0	4	122	5610	Full	10.62	11.00	5.95	Pass
EHT160	MCS0	4	114	5570	Full	10.31	11.00	5.95	Pass

FCC Band III Straddle Channel MIMO 4Tx Mode Ant A + B + C + D									
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)	Pass /Fail
						Ant A + B + C + D	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	144	5720	Full	10.67	11.00	5.95	Pass
EHT40	MCS0	4	142	5710	Full	10.83	11.00	5.95	Pass
EHT80	MCS0	4	138	5690	Full	10.78	11.00	5.95	Pass

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO 4Tx Mode Ant A + B + C + D																			
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				99% Bandwidth (MHz)				6 dB Min. Limit (MHz)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D	Ant A	Ant B	Ant C	Ant D		
EHT20	MCS0	4	149	5745	Full	22.40	22.48	22.24	23.04	18.85	17.80	19.20	17.35	19.18	19.18	19.33	19.13	0.5	Pass
EHT20	MCS0	4	157	5785	Full	24.64	26.64	25.44	24.24	19.10	19.10	19.00	17.80	19.33	19.38	19.38	19.33	0.5	Pass
EHT20	MCS0	4	165	5825	Full	22.32	22.16	22.00	22.48	18.90	18.00	19.10	19.05	19.03	19.08	19.08	19.18	0.5	Pass
EHT40	MCS0	4	151	5755	Full	45.12	45.92	44.64	44.16	36.45	35.46	36.27	37.62	38.46	38.46	38.26	38.26	0.5	Pass
EHT40	MCS0	4	159	5795	Full	44.80	45.92	46.24	45.92	35.91	37.80	38.34	37.35	38.46	38.46	38.56	38.36	0.5	Pass
EHT80	MCS0	4	155	5775	Full	84.16	83.52	85.12	86.40	67.20	77.34	77.76	76.06	77.44	77.32	77.68	77.68	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	149	5745	Full	22.70	23.00	23.10	23.70	29.16	30.00	5.95	Pass
EHT20	MCS0	4	157	5785	Full	22.70	22.60	23.30	23.50	29.06	30.00	5.95	Pass
EHT20	MCS0	4	165	5825	Full	23.00	22.80	23.20	23.40	29.13	30.00	5.95	Pass
EHT40	MCS0	4	151	5755	Full	22.90	23.30	23.50	23.50	29.33	30.00	5.95	Pass
EHT40	MCS0	4	159	5795	Full	22.60	22.60	23.10	23.70	29.04	30.00	5.95	Pass
EHT80	MCS0	4	155	5775	Full	23.40	23.20	23.60	24.00	29.58	30.00	5.95	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO 4Tx Mode Ant A + B + C + D													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
						Ant A	Ant B	Ant C	Ant D	SUM	Ant A + B + C + D	Ant A + B + C + D	
EHT20	MCS0	4	149	5745	Full	11.38	11.60	12.05	12.22	18.24	30.00	5.95	Pass
EHT20	MCS0	4	157	5785	Full	13.21	14.35	14.66	14.30	20.68	30.00	5.95	Pass
EHT20	MCS0	4	165	5825	Full	11.97	12.25	11.95	11.73	18.27	30.00	5.95	Pass
EHT40	MCS0	4	151	5755	Full	8.67	8.63	9.06	9.20	15.22	30.00	5.95	Pass
EHT40	MCS0	4	159	5795	Full	8.59	8.26	7.96	7.95	14.61	30.00	5.95	Pass
EHT80	MCS0	4	155	5775	Full	8.95	8.76	7.66	9.33	15.35	30.00	5.95	Pass

Note: PSD Sum = Max PSD(Ant. A, Ant. B, Ant. C, Ant. D) + 10 log (n)

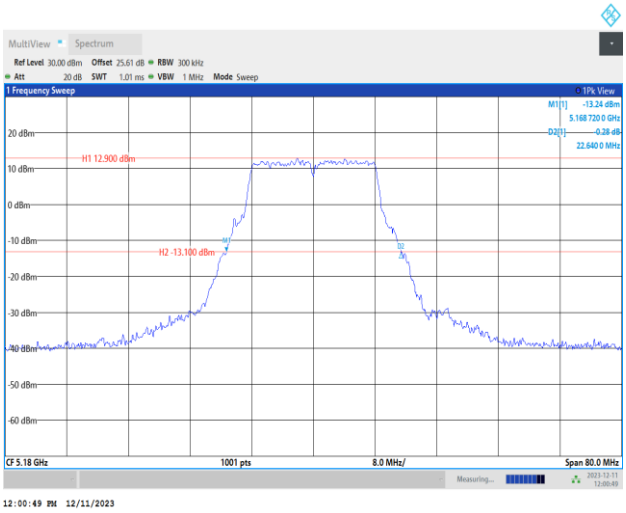
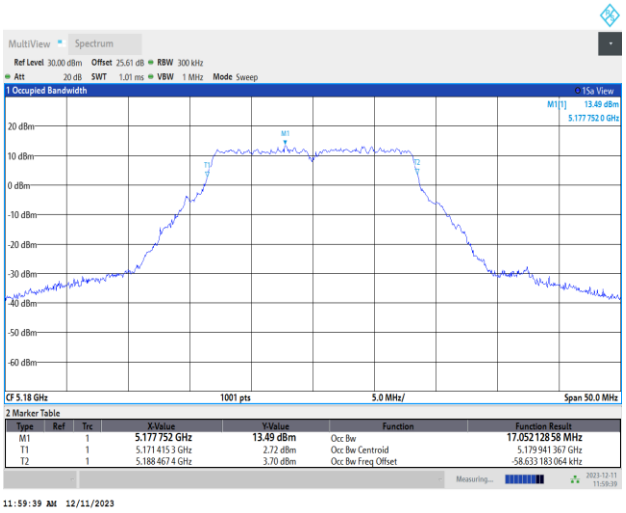
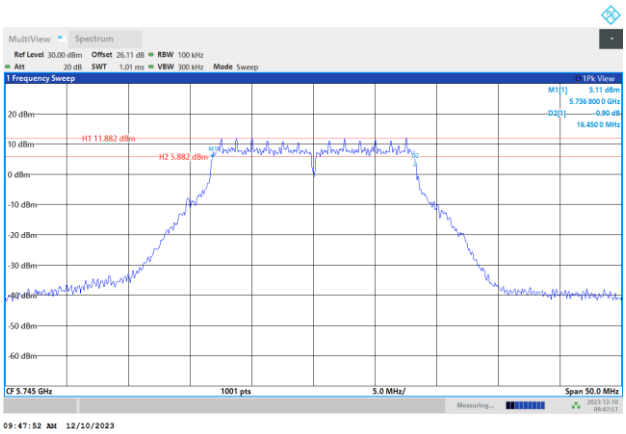
Test Result of 26dB & 99% Occupied Bandwidth

MIMO <Ant. 1+2+3+4> for Band 1~2

MIMO <Ant. A+B+C+D> for Band 3~4

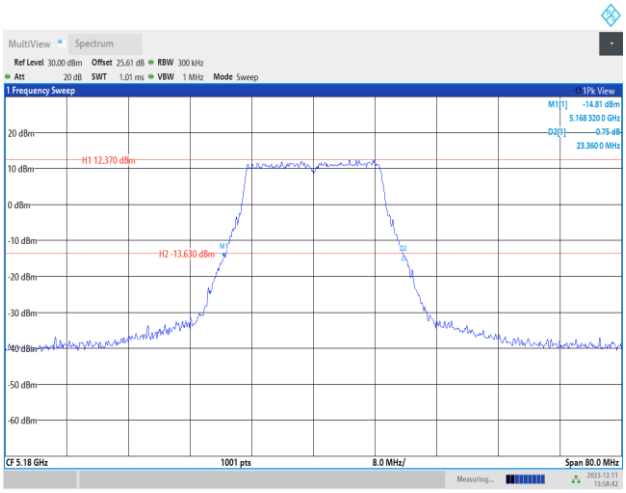
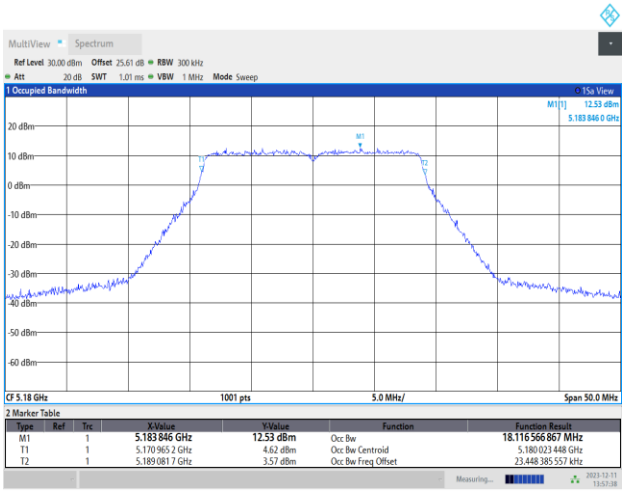
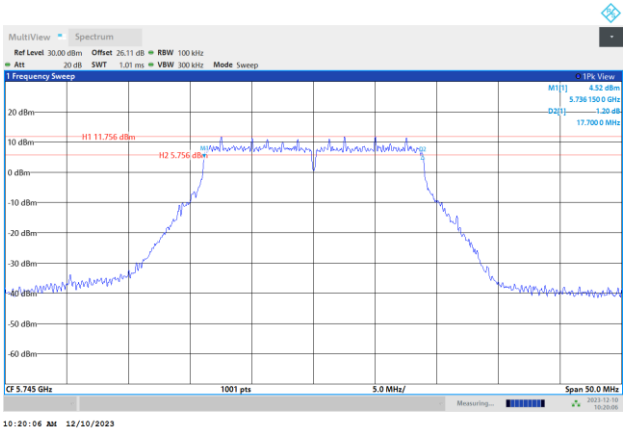
<CDD Mode>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

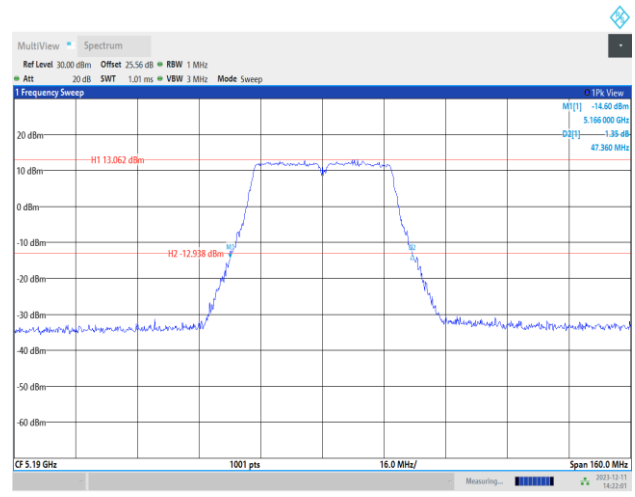
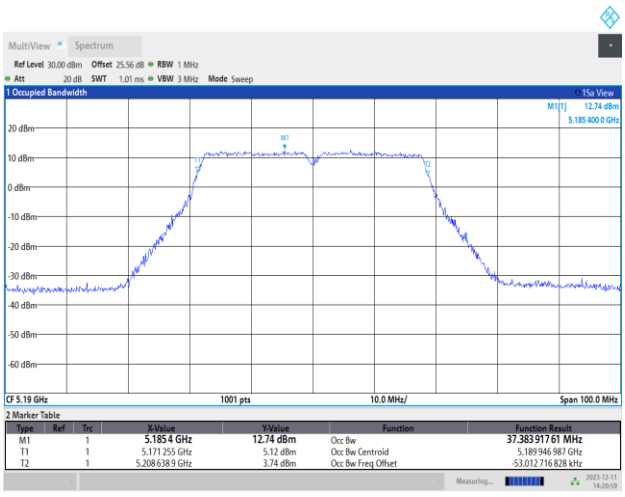
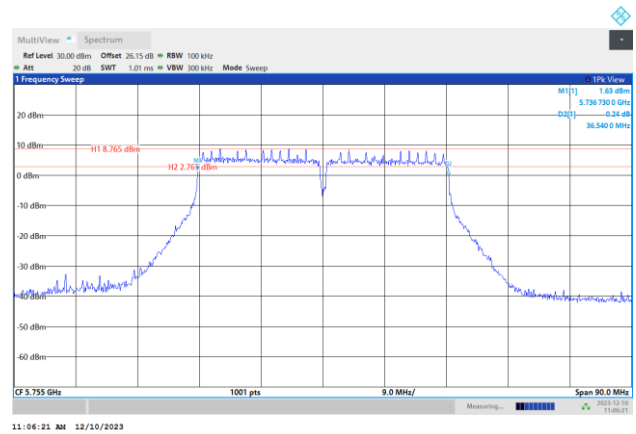
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT20>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

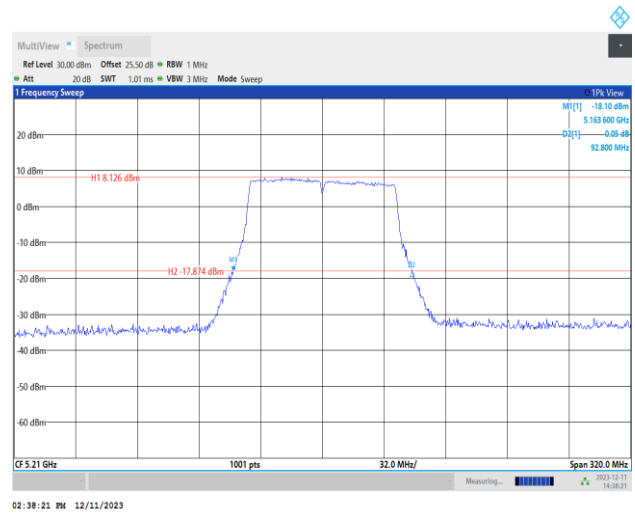
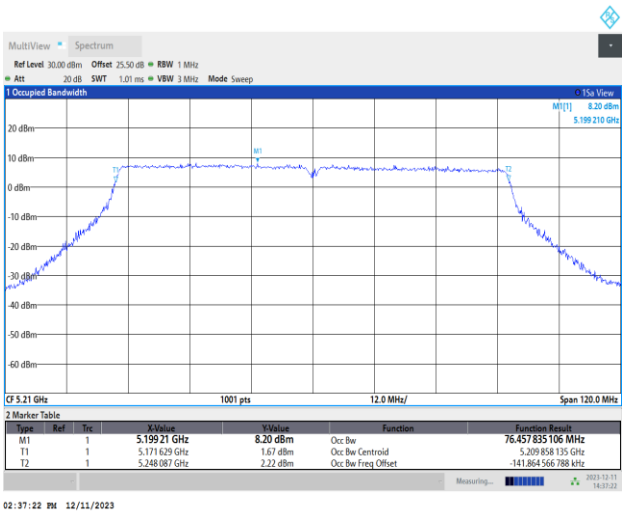
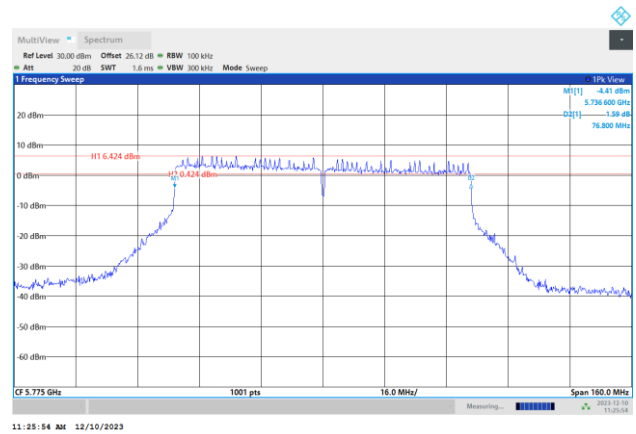
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT40>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

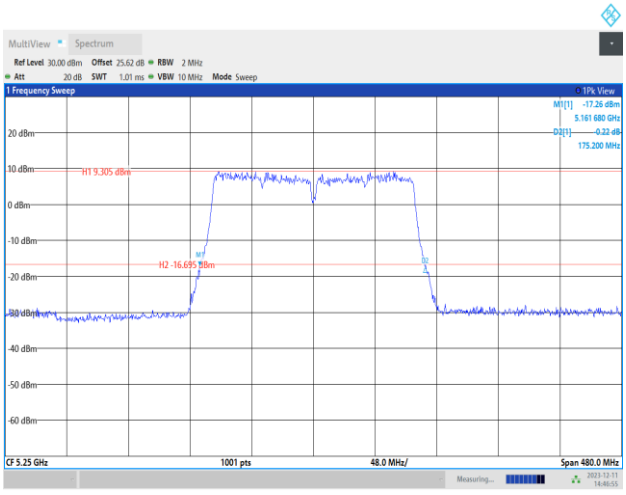
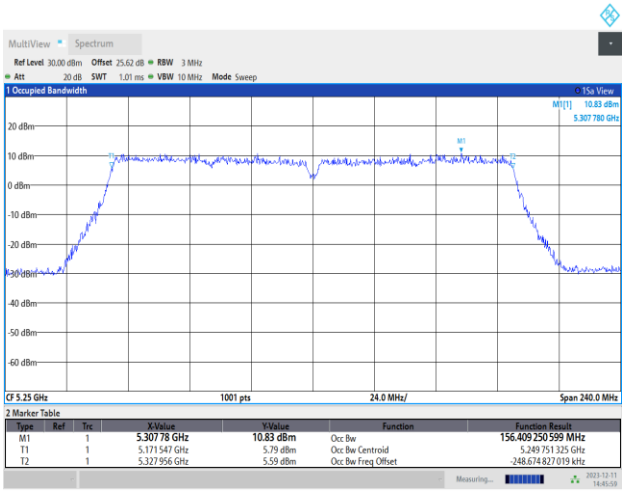
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

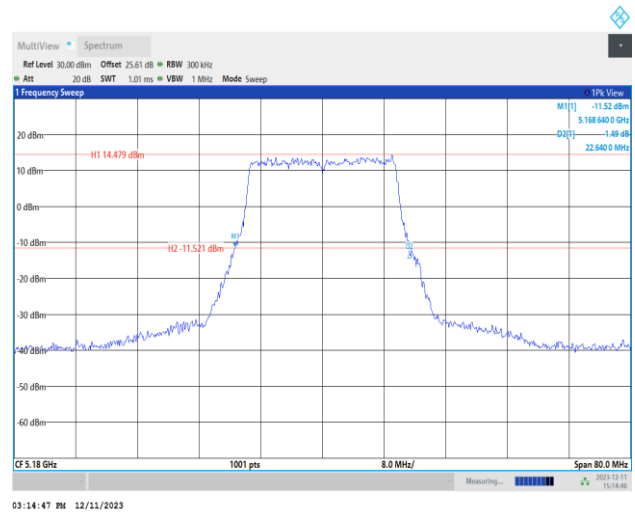
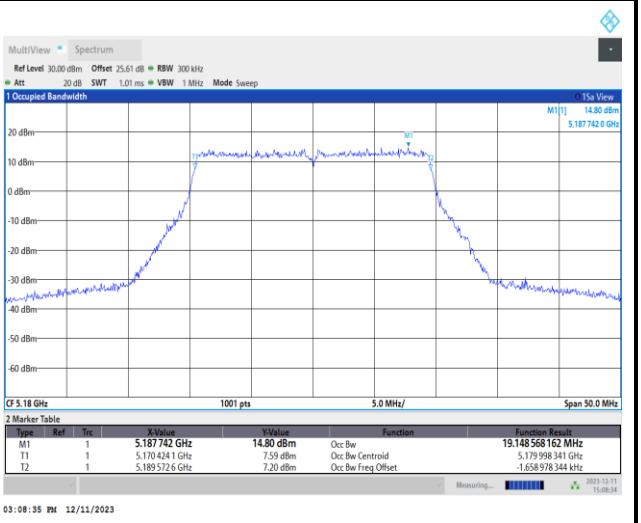
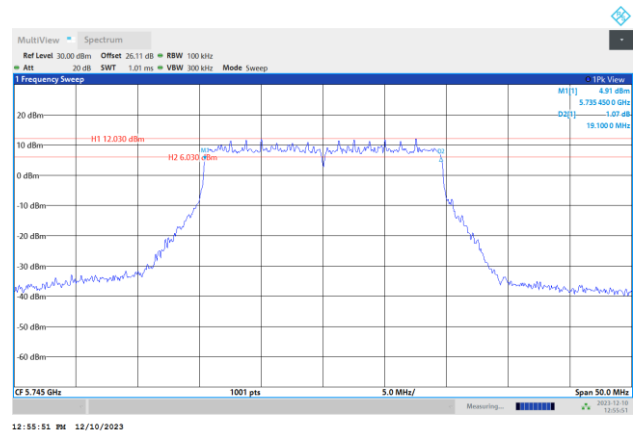
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT160>

26dB Bandwidth	99% Occupied Bandwidth
	

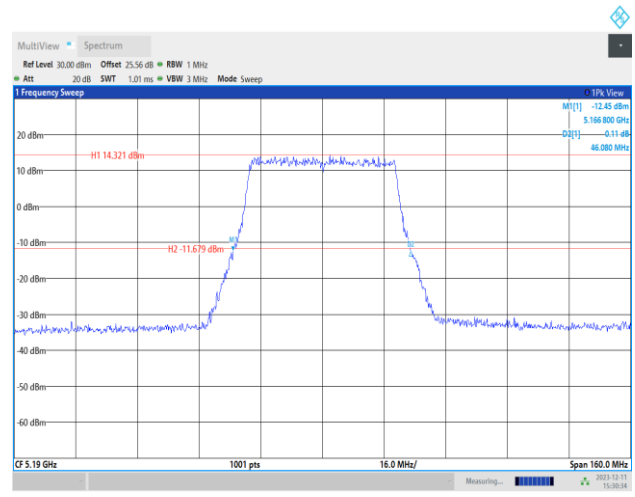
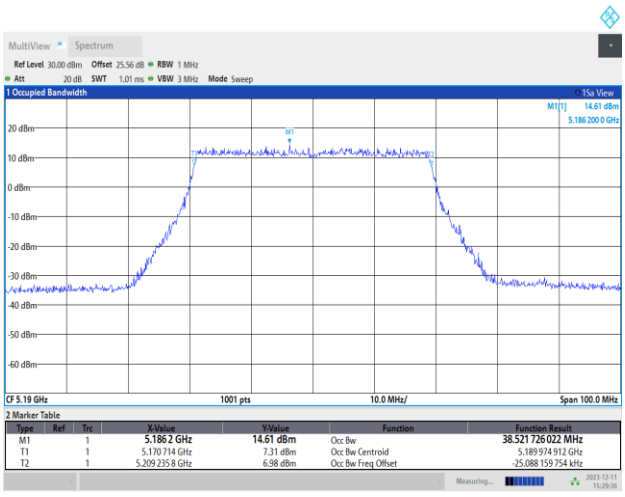
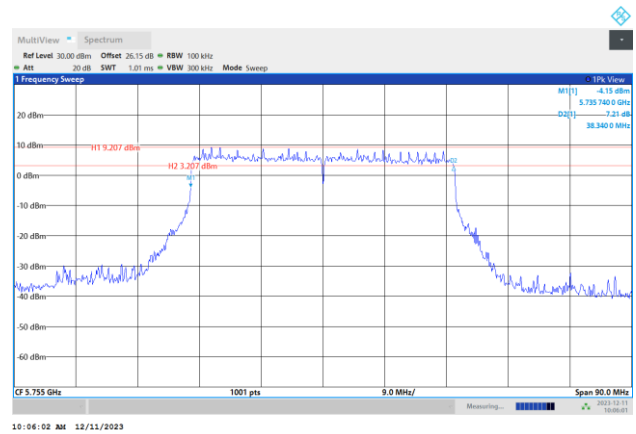
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT20>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

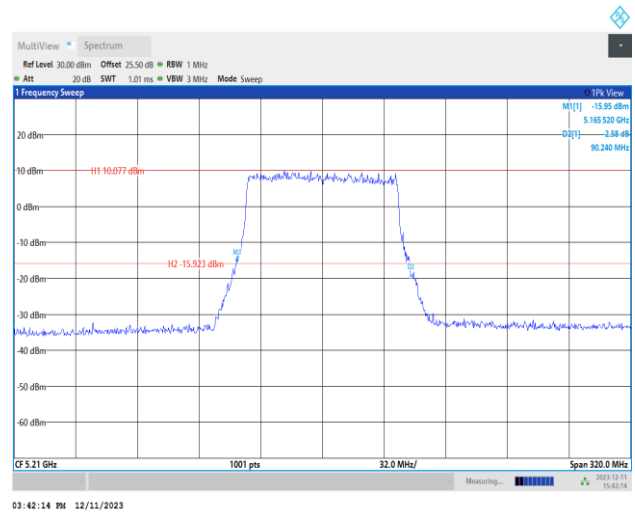
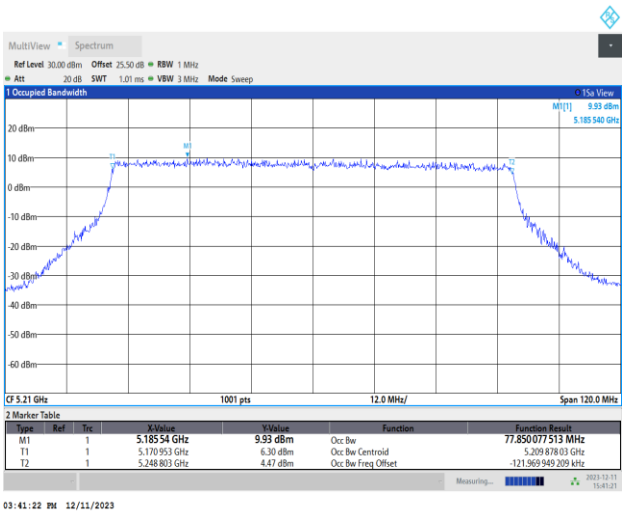
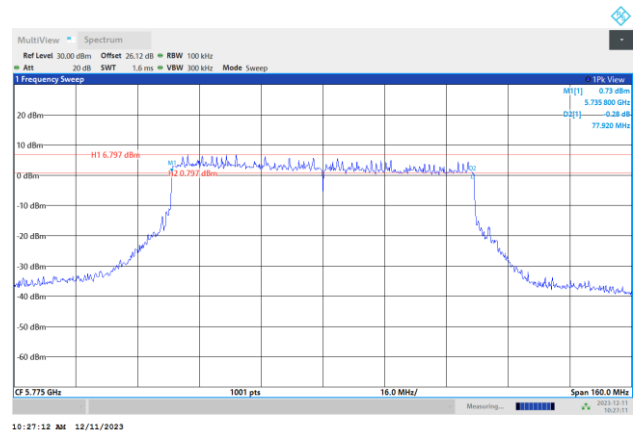
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT40>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

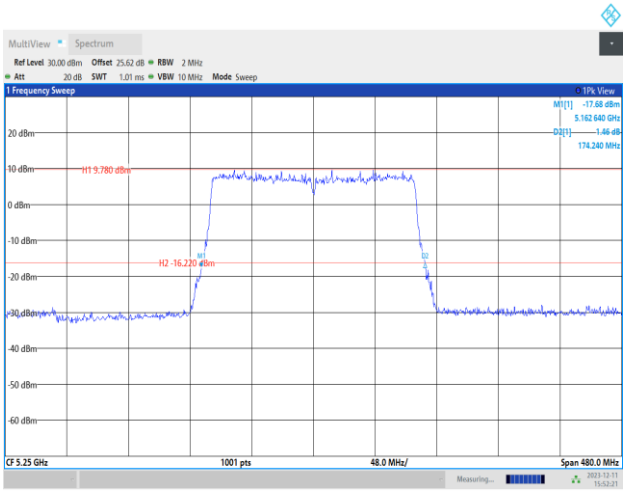
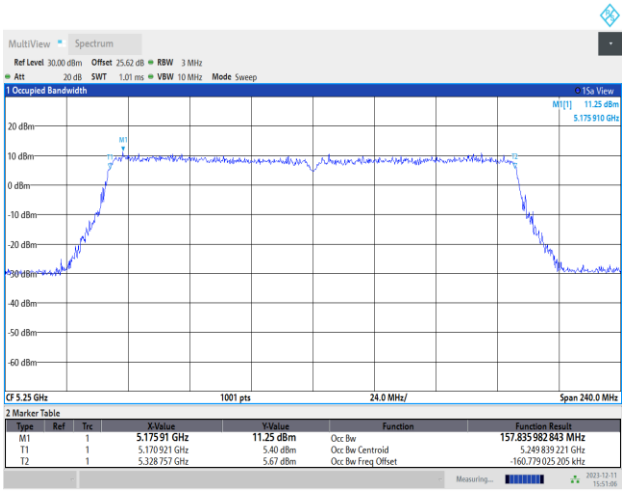
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT80>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	**N/A**
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT160>

26dB Bandwidth	99% Occupied Bandwidth
	

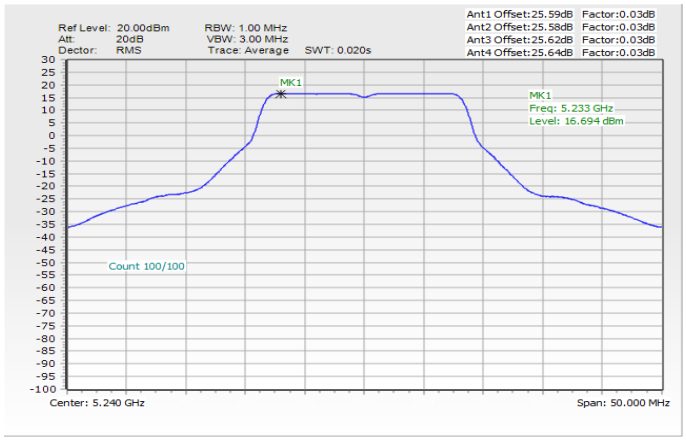
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Result of Power Spectral Density

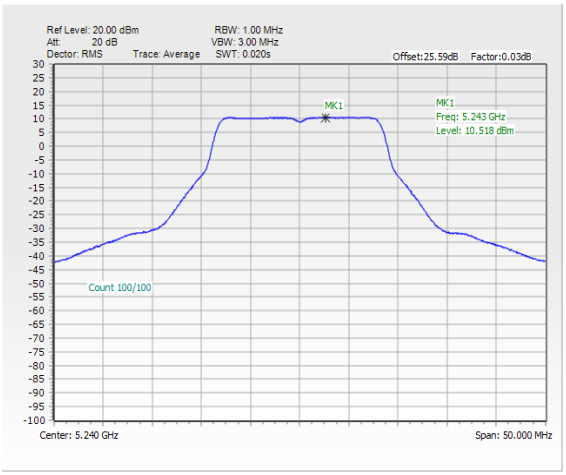
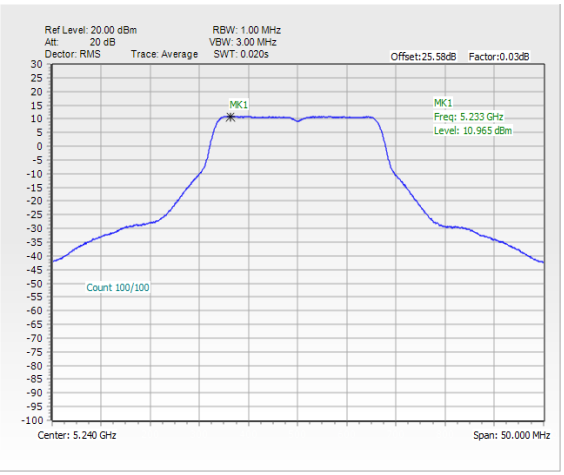
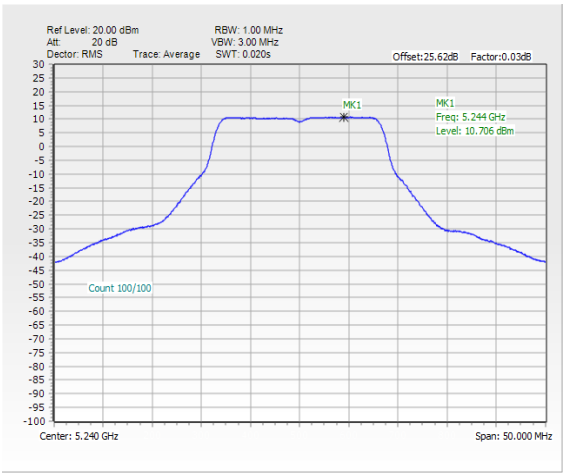
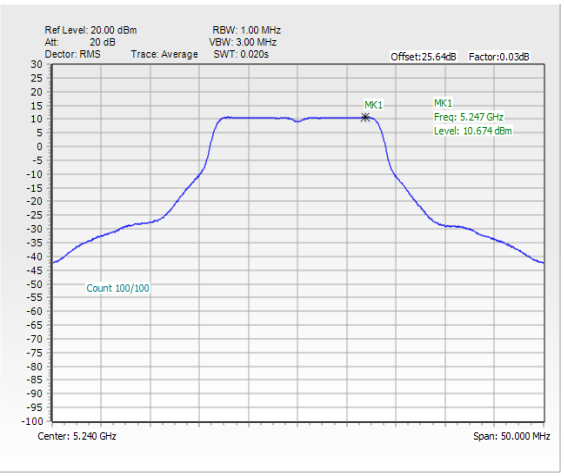
<For Band1-3>

<802.11a>

Maximum Power Density Plot (dBm/MHz)

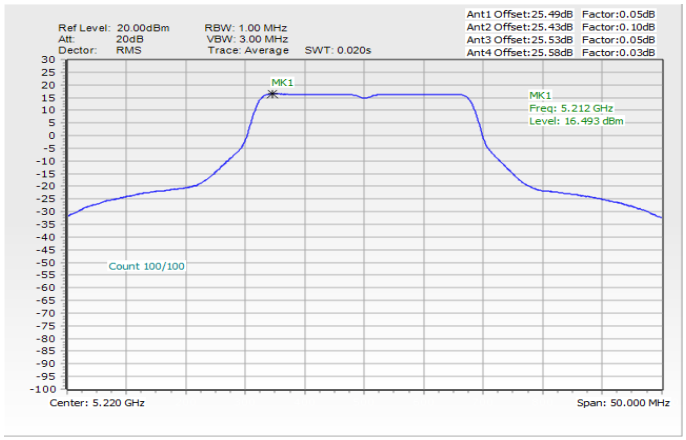


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

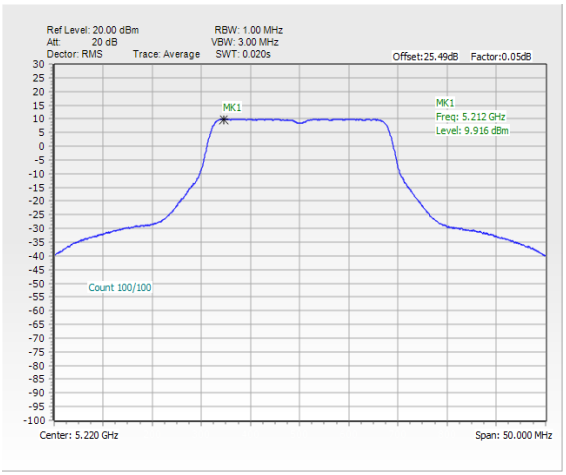
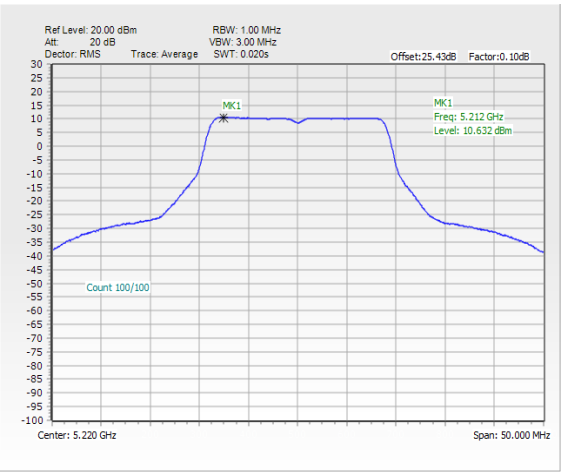
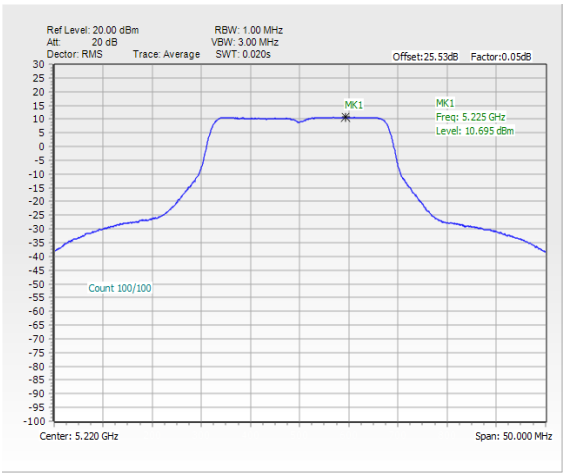
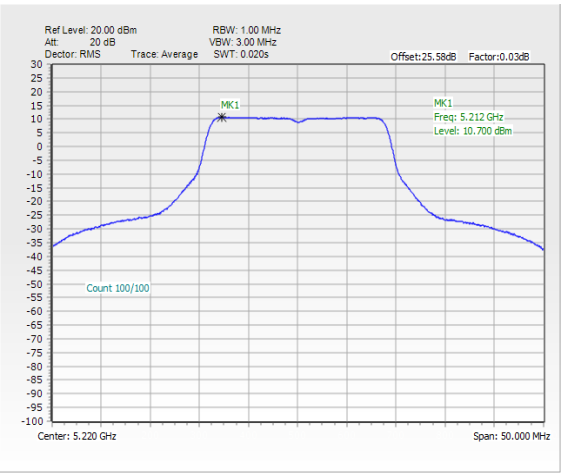
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<802.11ac VHT20>

Maximum Power Density Plot (dBm/MHz)

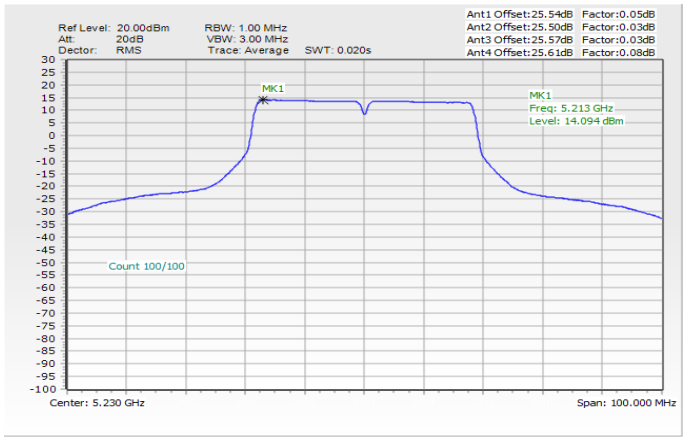


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

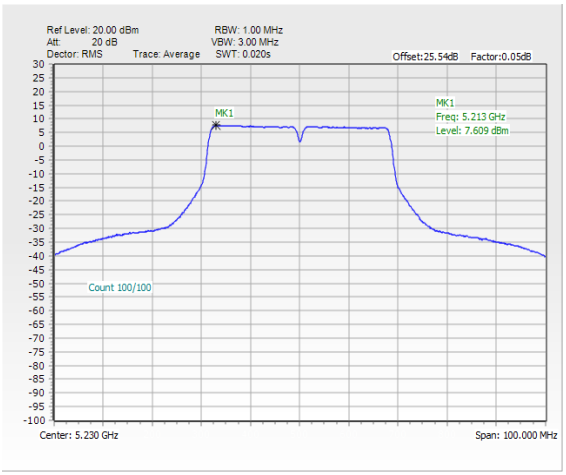
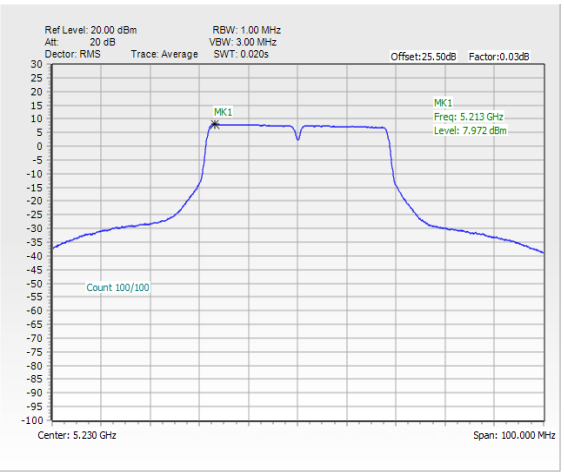
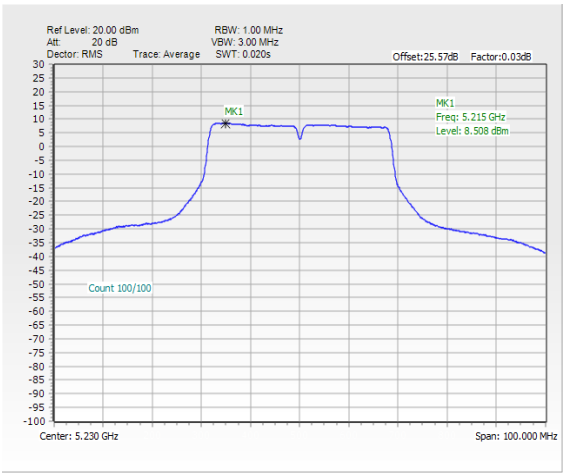
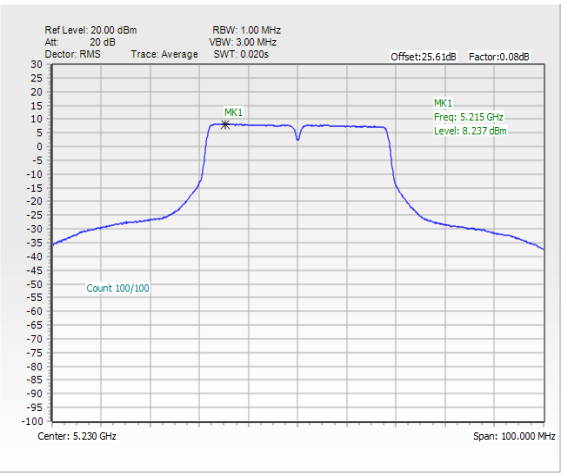
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<802.11ac VHT40>

Maximum Power Density Plot (dBm/MHz)

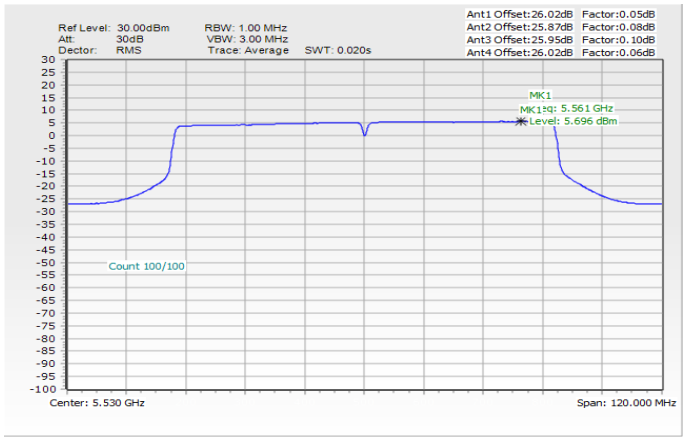


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

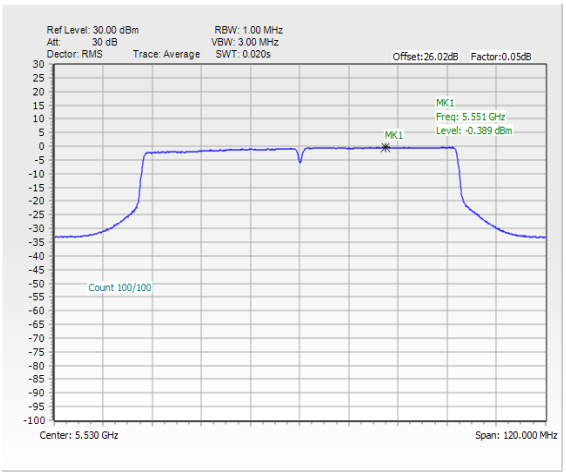
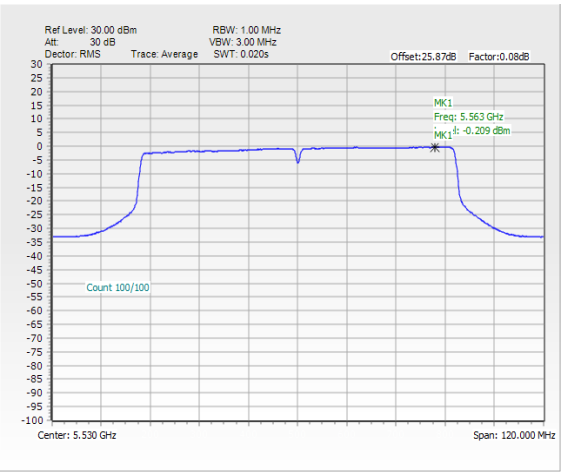
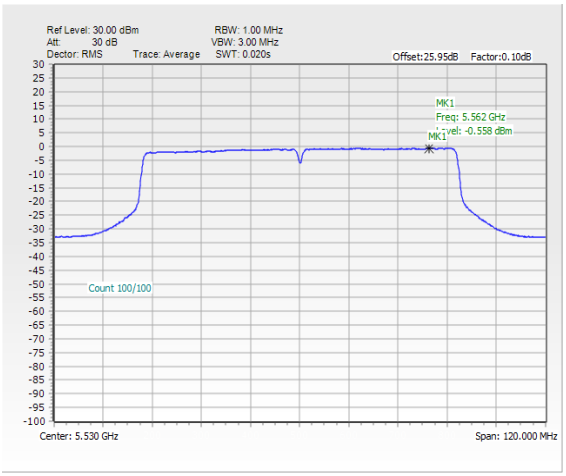
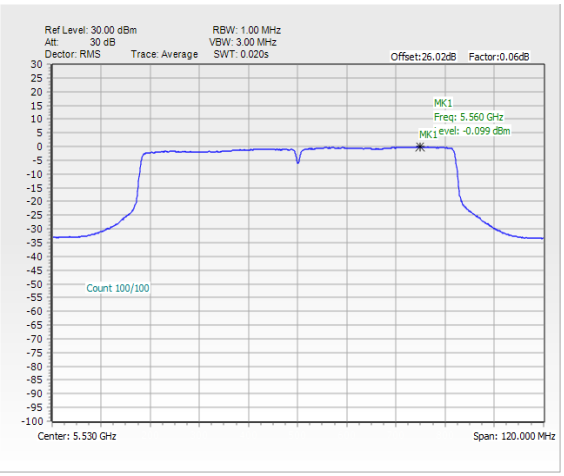
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<802.11ac VHT80>

Maximum Power Density Plot (dBm/MHz)

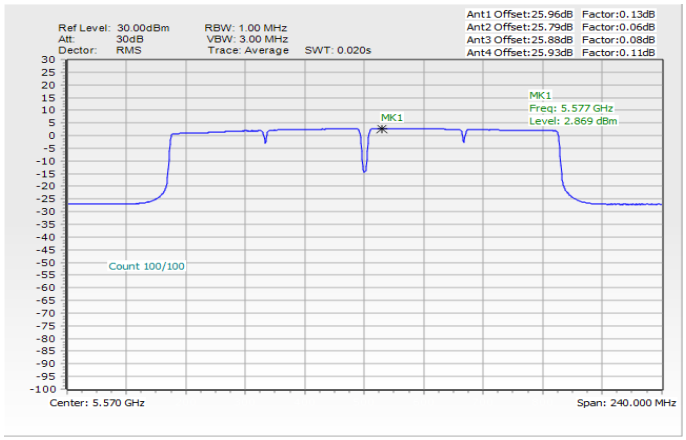


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

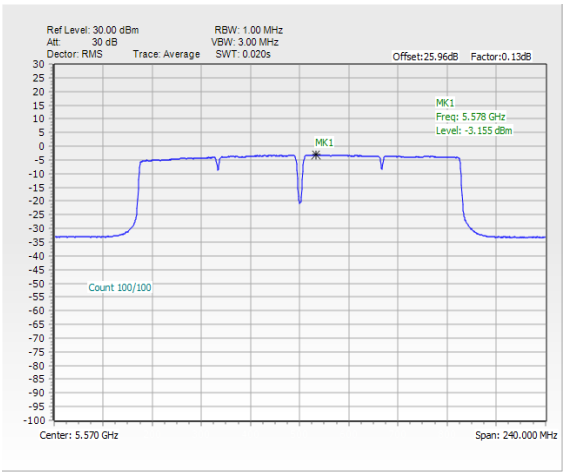
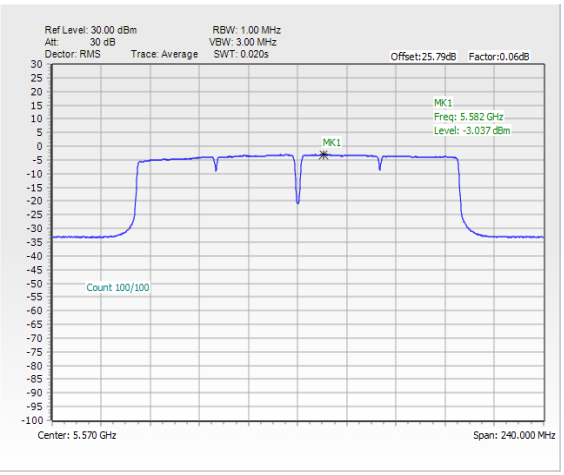
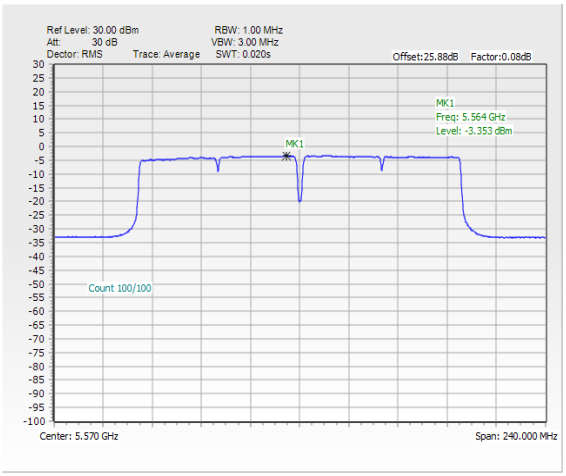
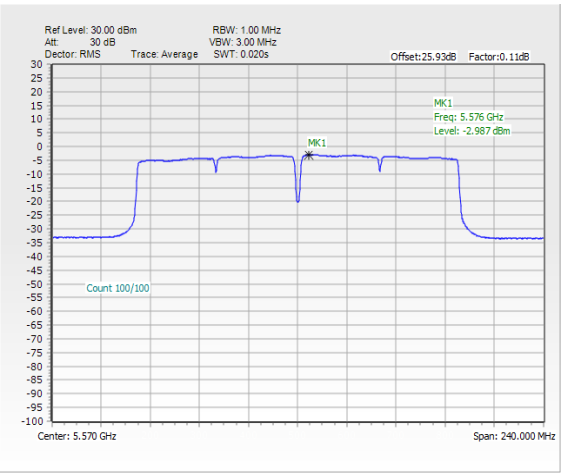
Maximum Power Density Plot Trace 1 (Ant A)	Maximum Power Density Plot Trace 2 (Ant B)
	
Maximum Power Density Plot Trace 3 (Ant C)	**Maximum Power Density Plot Trace 4 (Ant D)**
	

<802.11ac VHT160>

Maximum Power Density Plot (dBm/MHz)

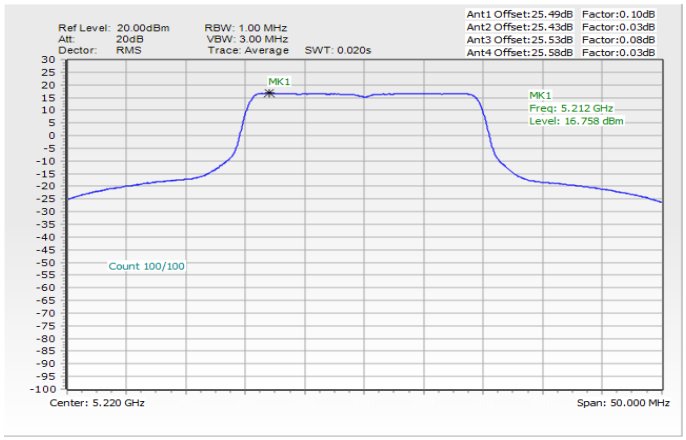


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

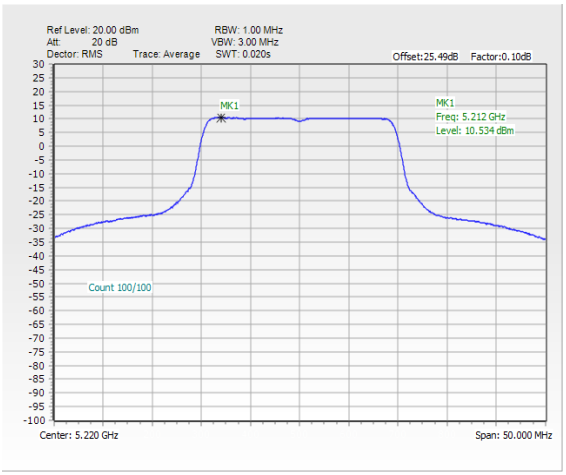
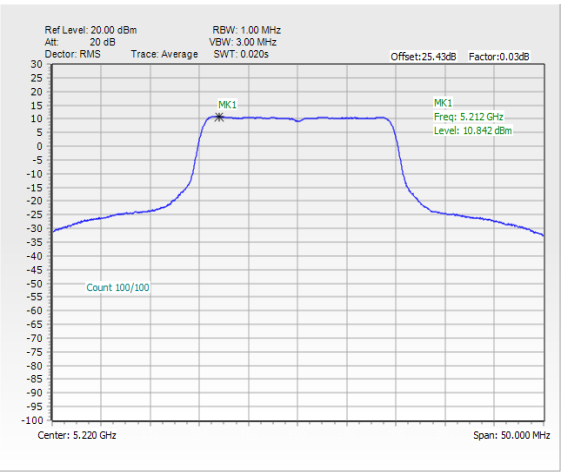
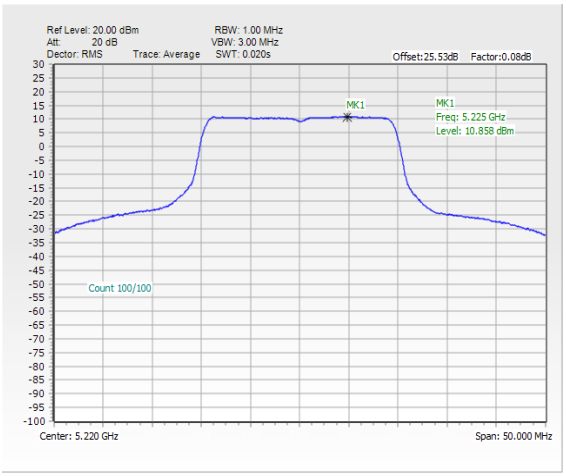
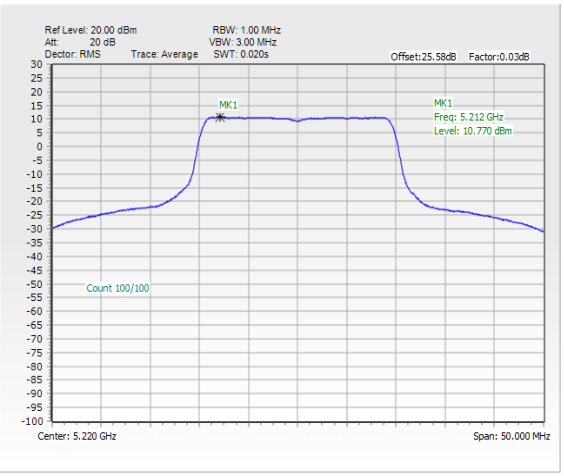
Maximum Power Density Plot Trace 1 (Ant A)	Maximum Power Density Plot Trace 2 (Ant B)
	
Maximum Power Density Plot Trace 3 (Ant C)	**Maximum Power Density Plot Trace 4 (Ant D)**
	

<802.11be EHT20>

Maximum Power Density Plot (dBm/MHz)

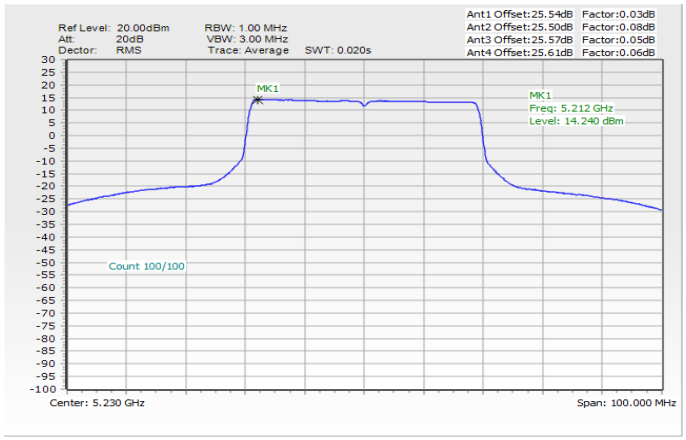


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

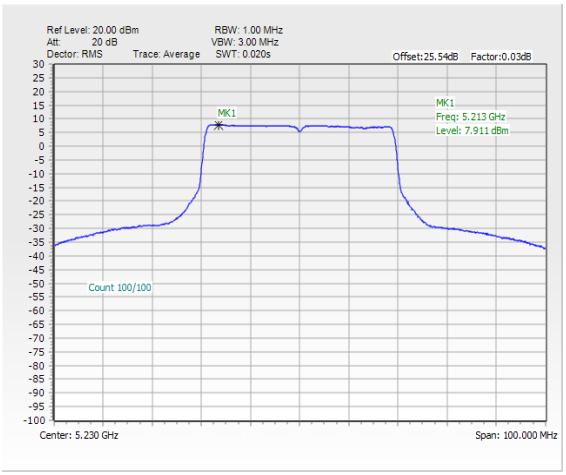
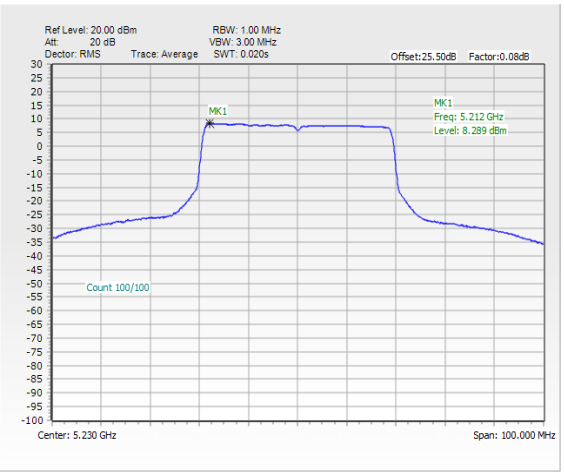
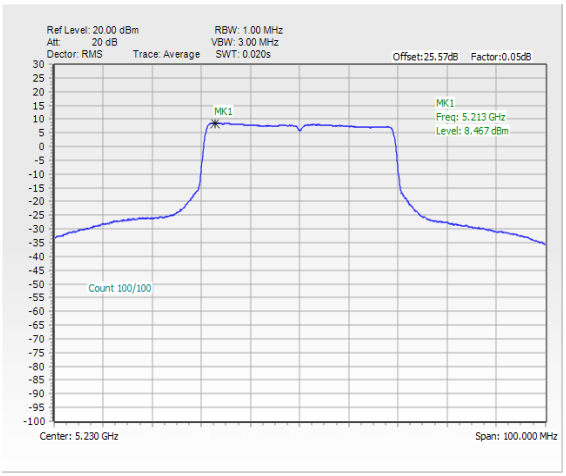
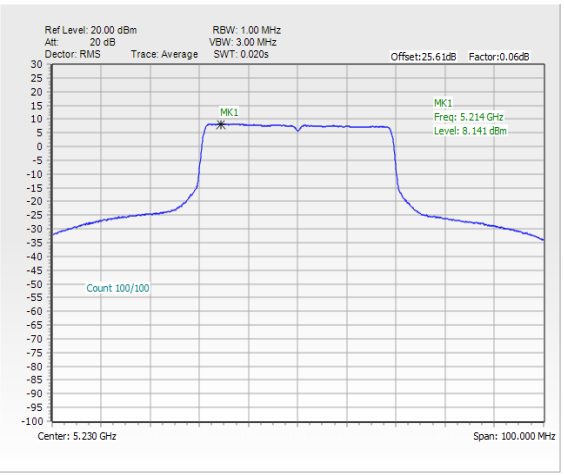
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<802.11be EHT40>

Maximum Power Density Plot (dBm/MHz)

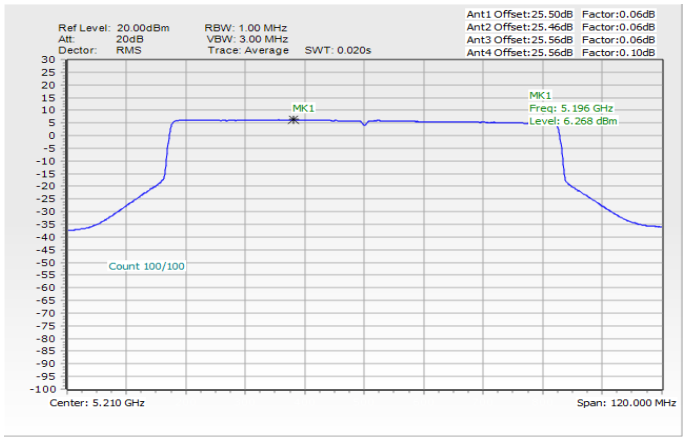


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

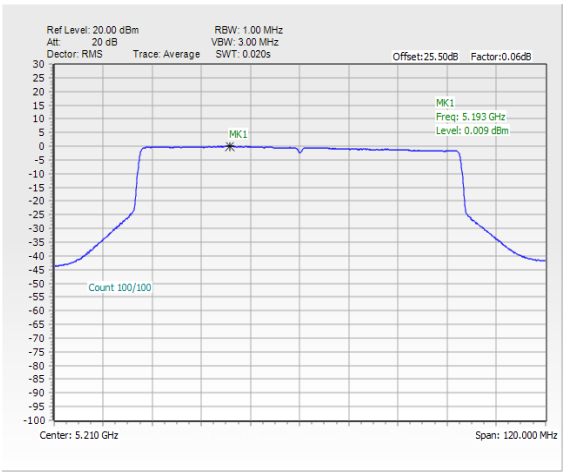
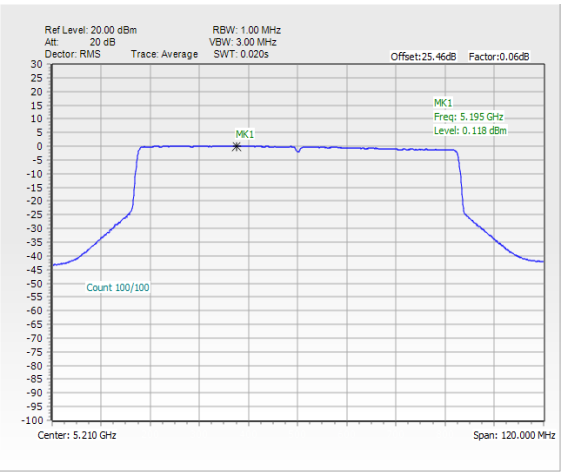
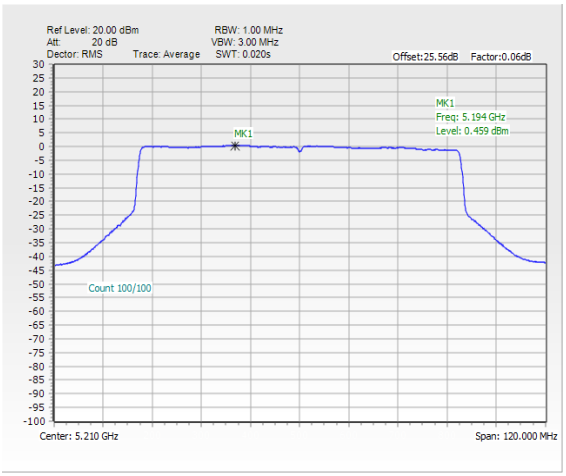
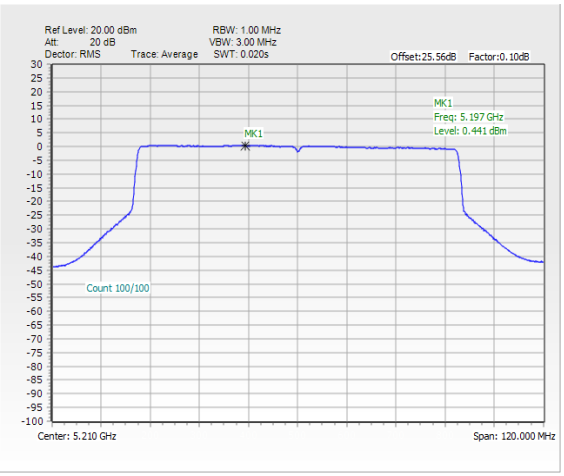
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<802.11be EHT80>

Maximum Power Density Plot (dBm/MHz)

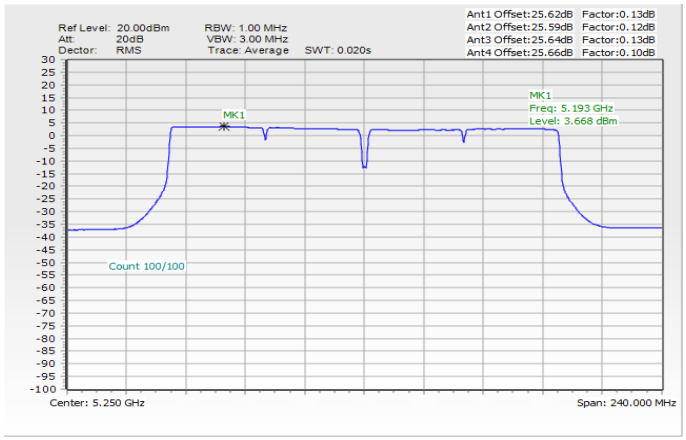


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

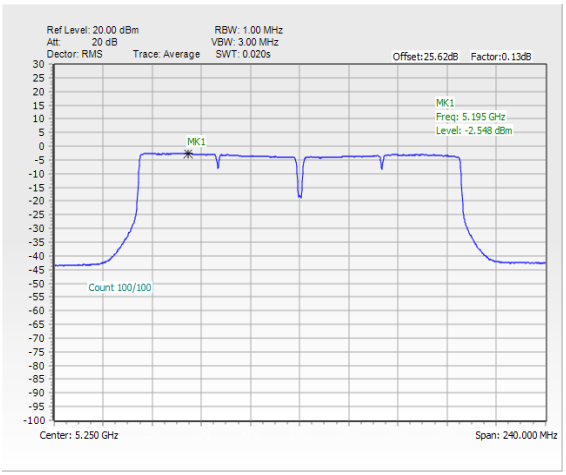
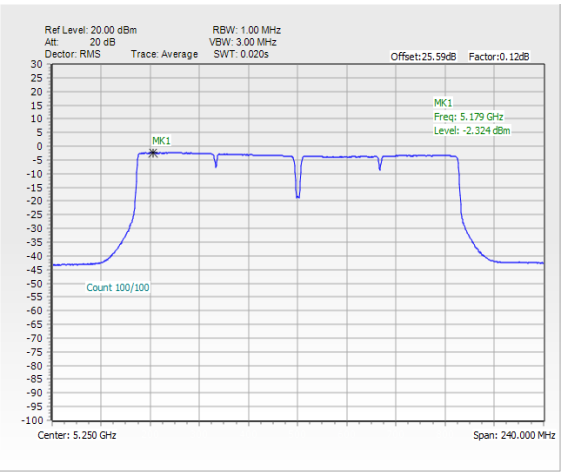
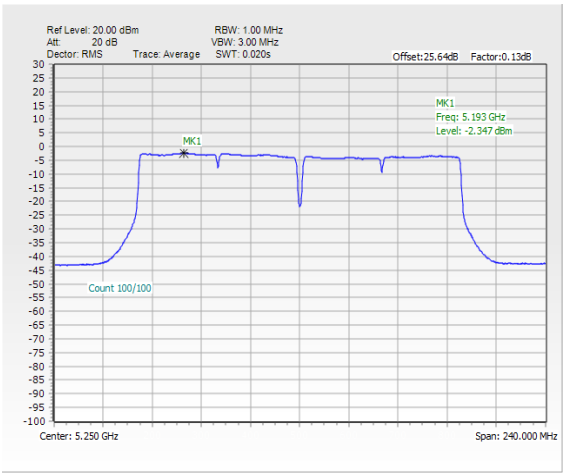
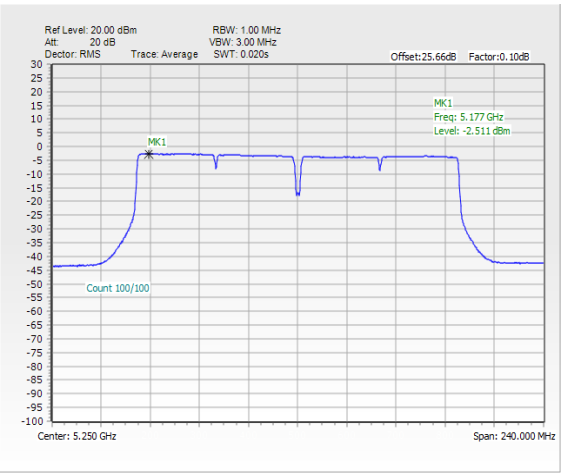
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<802.11be EHT160>

Maximum Power Density Plot (dBm/MHz)

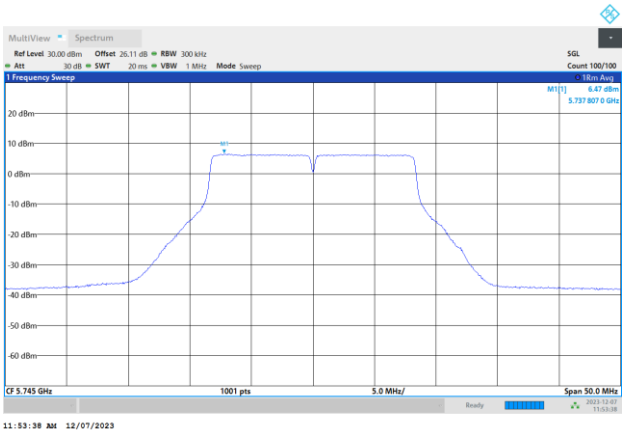
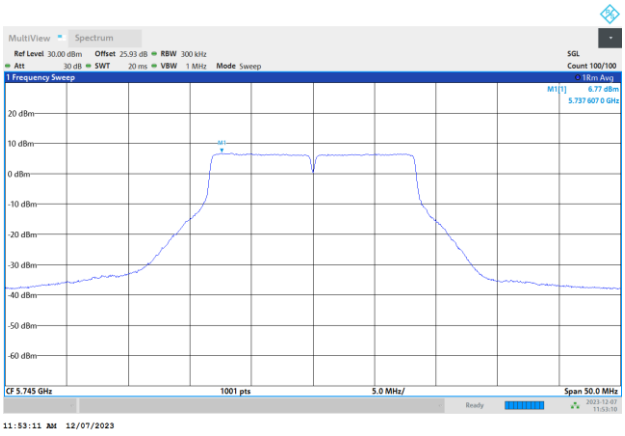
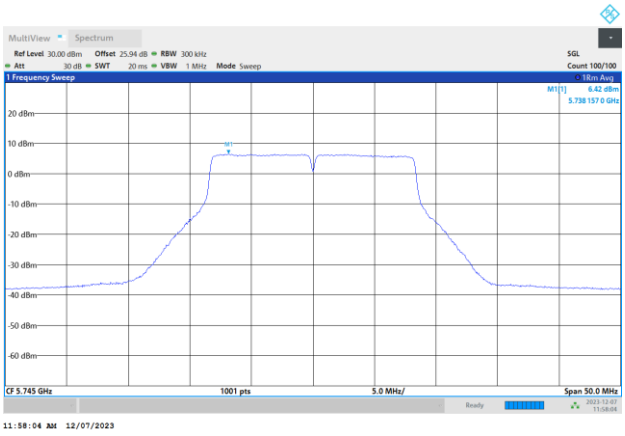
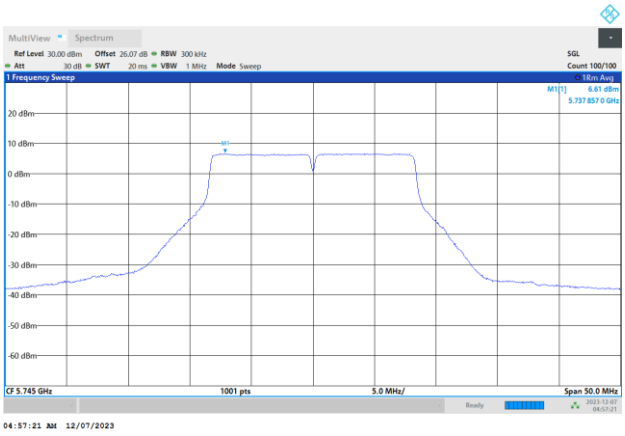


Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.

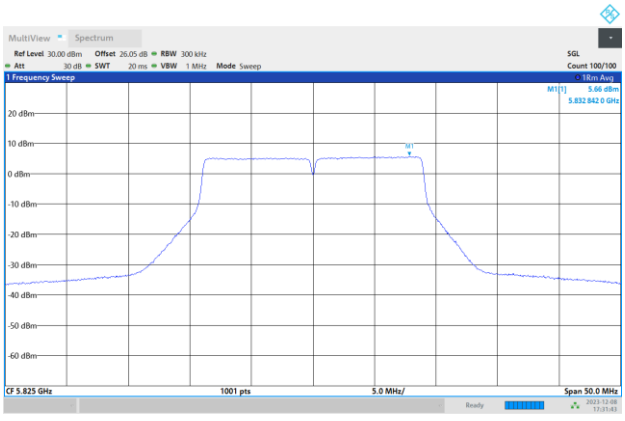
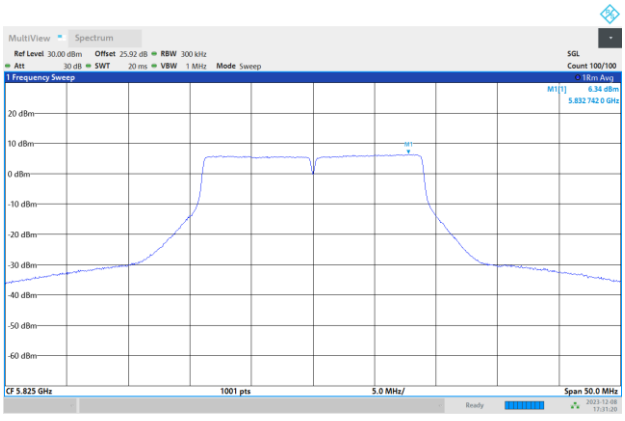
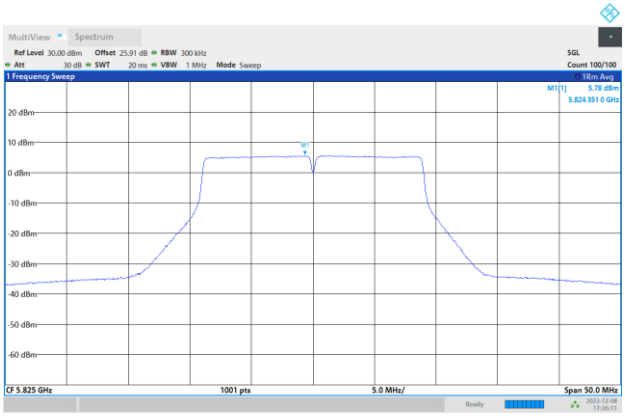
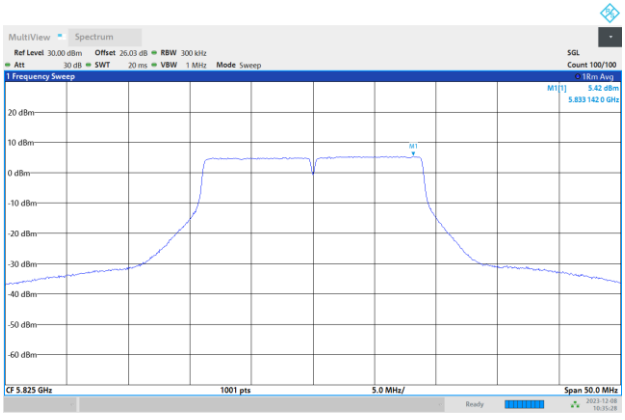
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	
Maximum Power Density Plot Trace 3 (Ant 3)	**Maximum Power Density Plot Trace 4 (Ant 4)**
	

<For Band4>

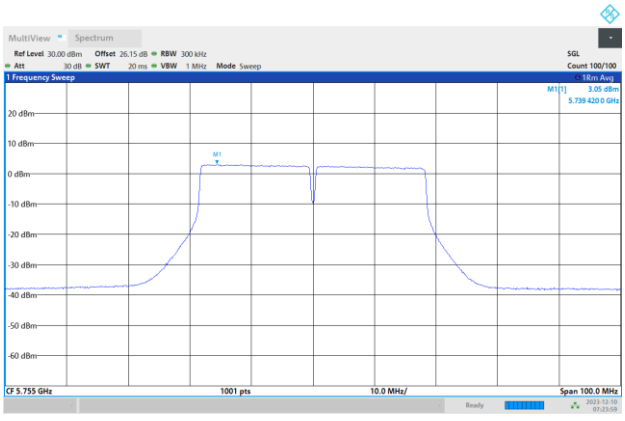
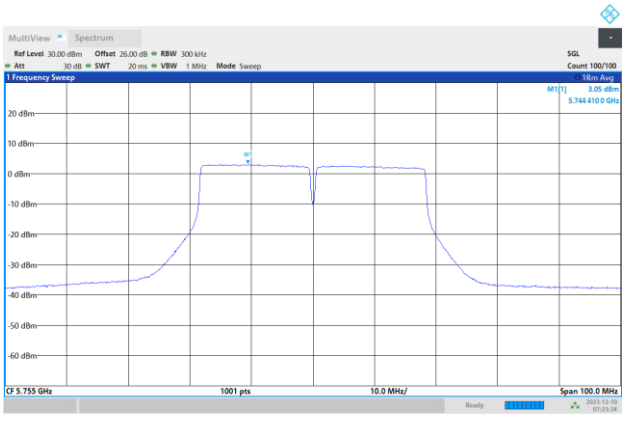
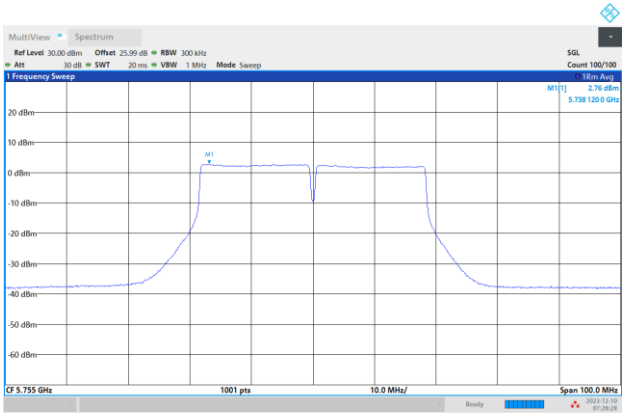
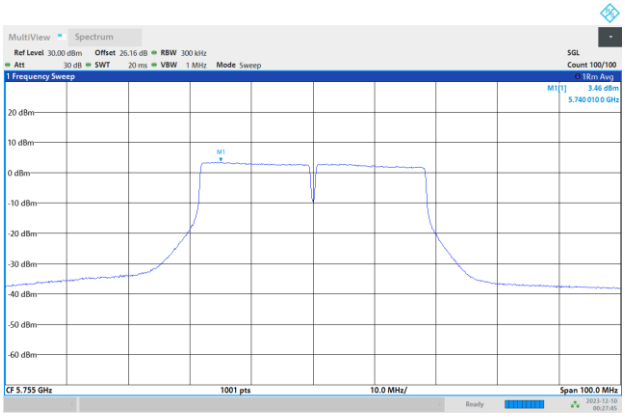
<802.11a>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

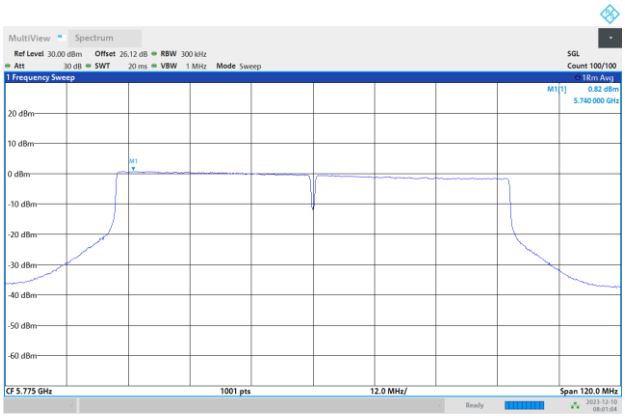
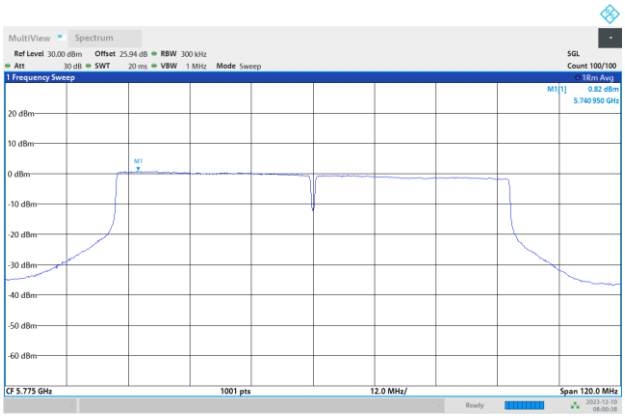
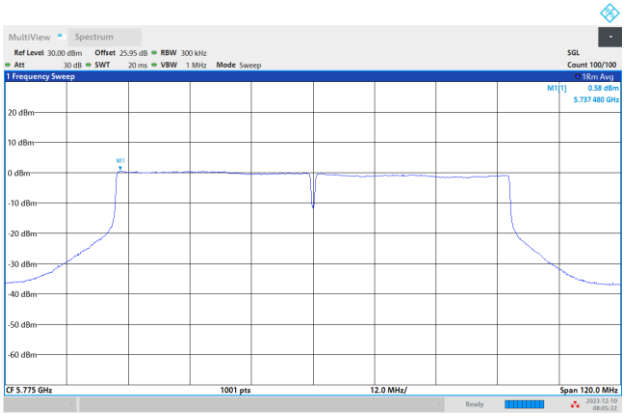
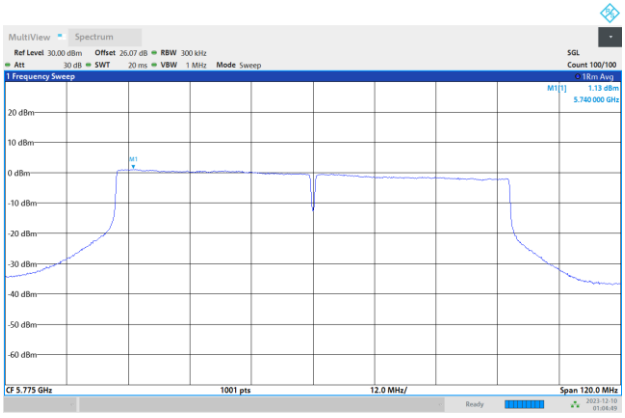
<802.11ac VHT20>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

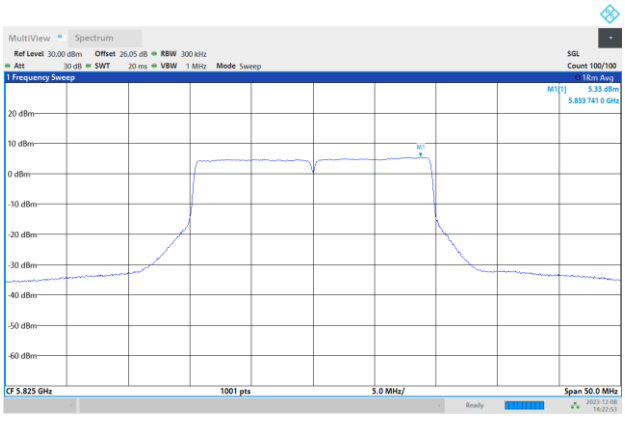
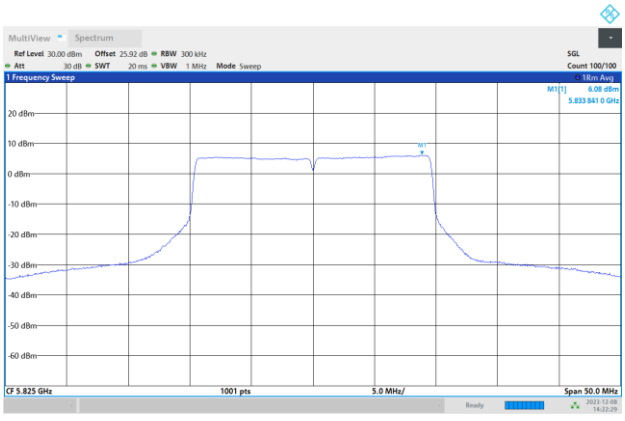
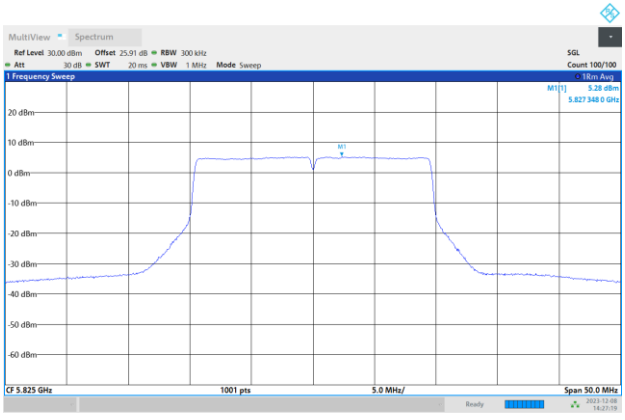
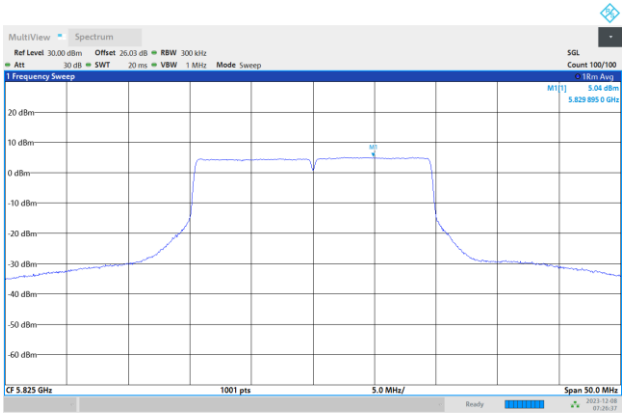
<802.11ac VHT40>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

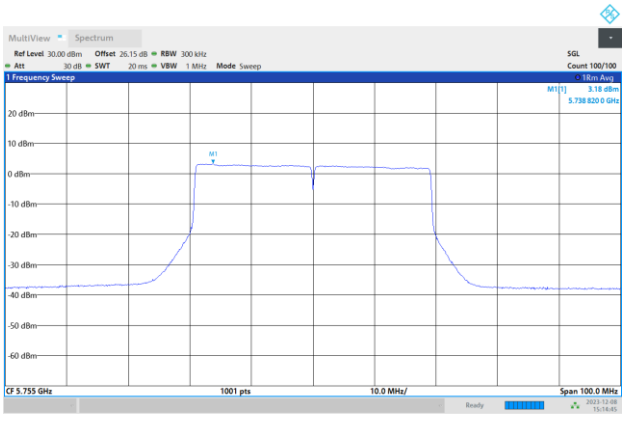
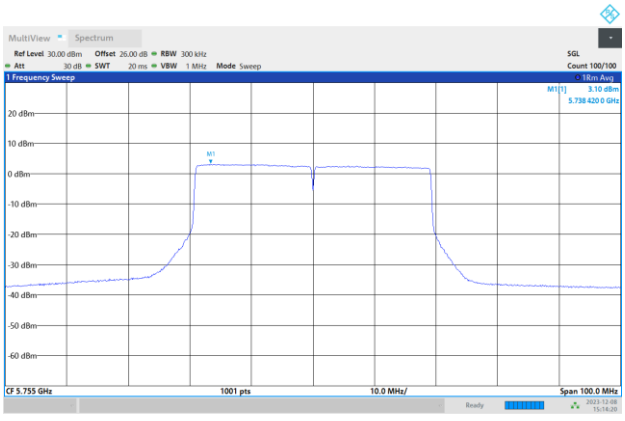
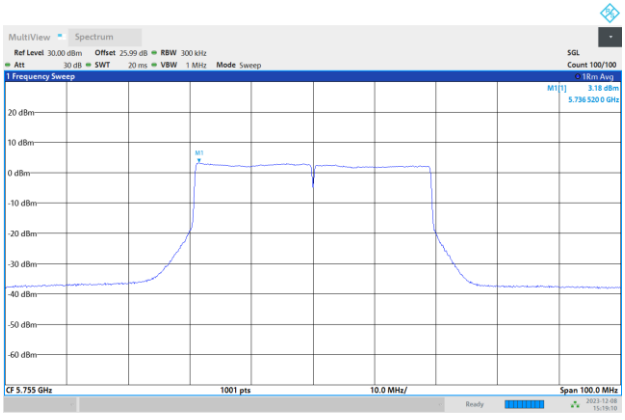
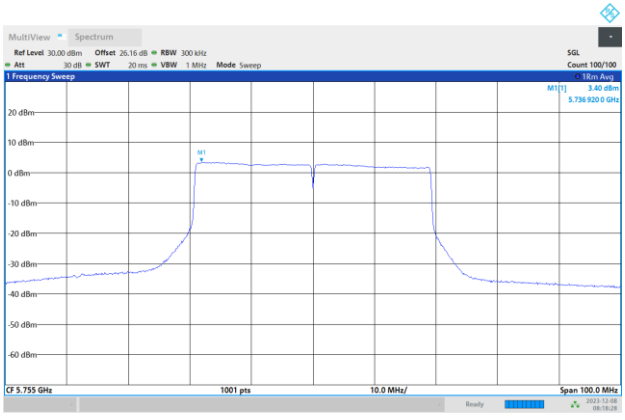
<802.11ac VHT80>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

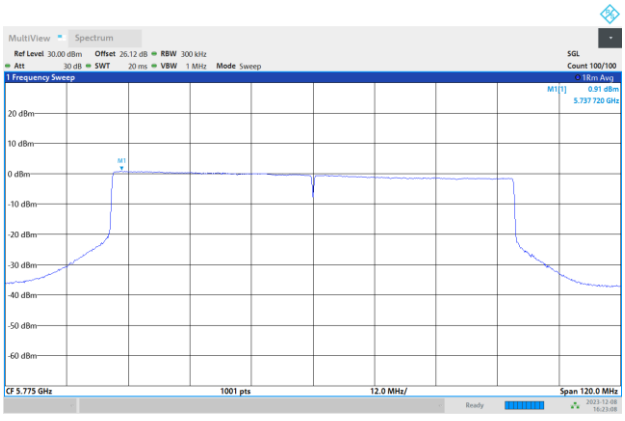
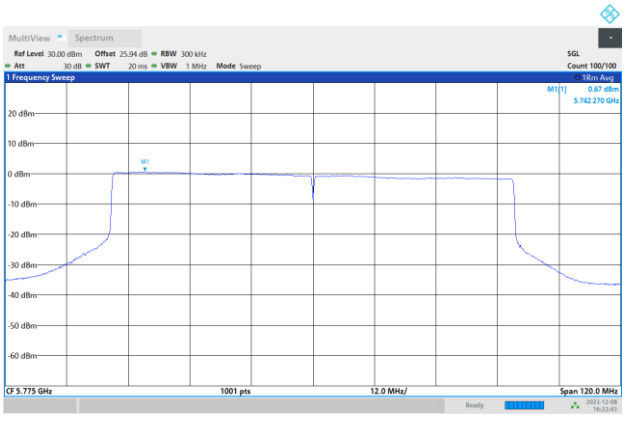
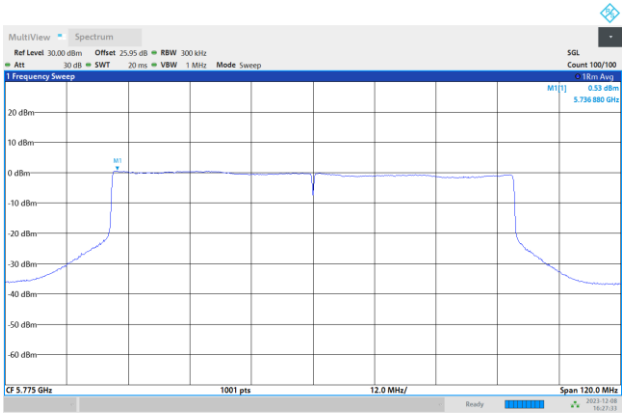
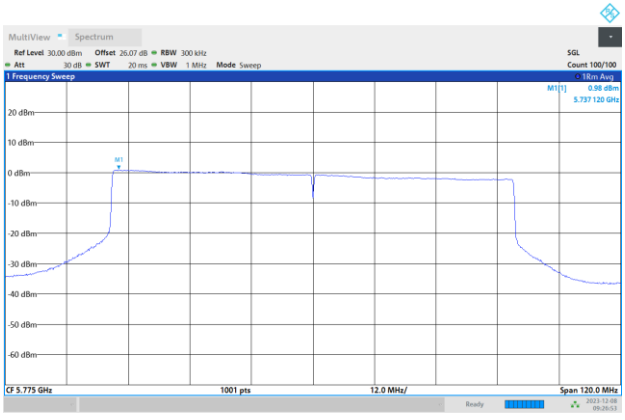
<802.11be EHT20>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

<802.11be EHT40>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

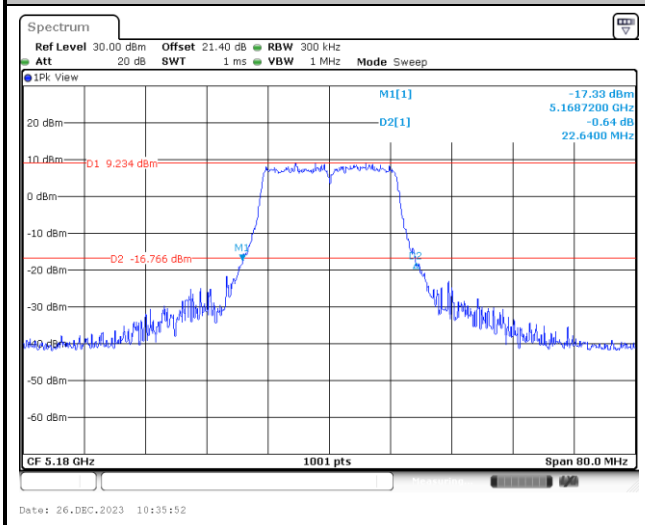
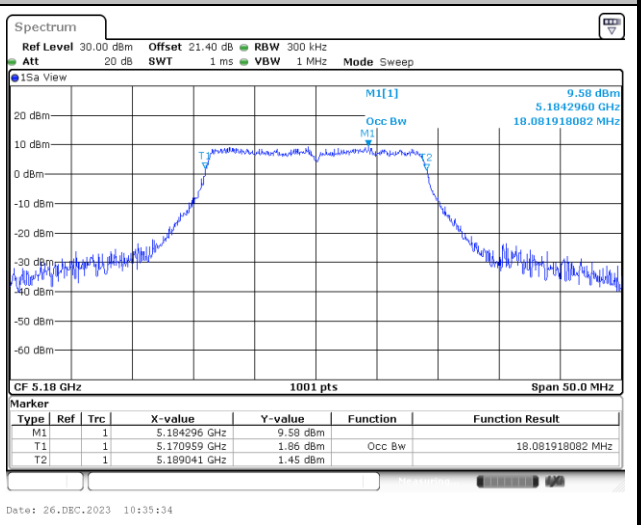
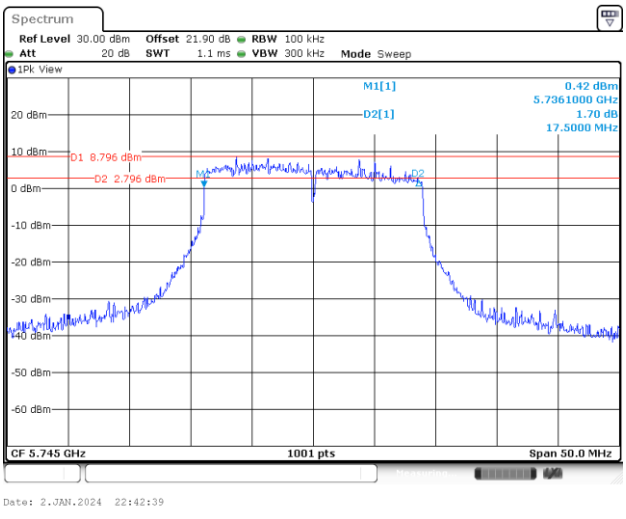
<802.11be EHT80>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. A	**MIMO Ant. B**
	
MIMO Ant. C	**MIMO Ant. D**
	

Test Result of 26dB & 99% Occupied Bandwidth

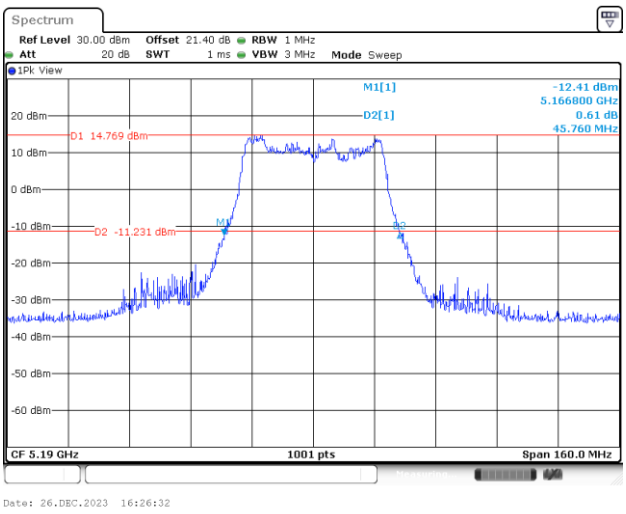
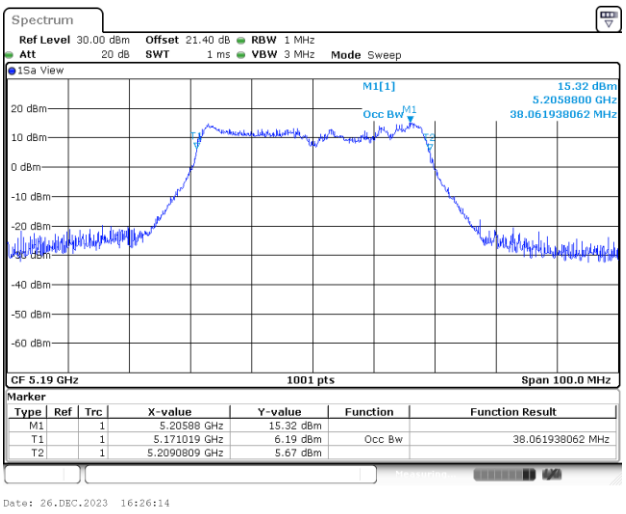
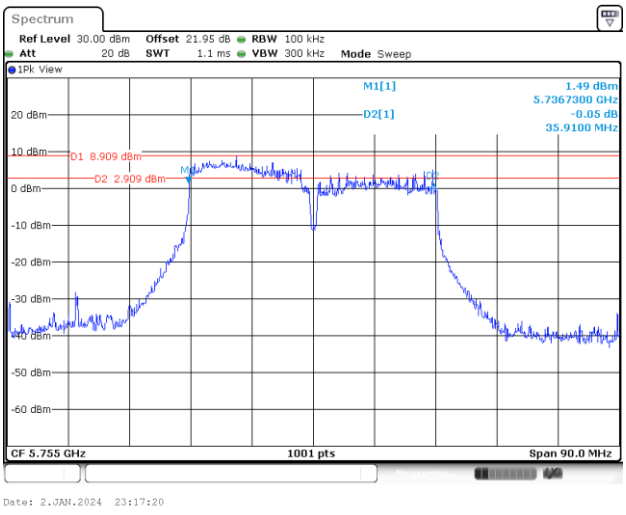
<TXBF Mode>

<802.11ac VHT20>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	
	

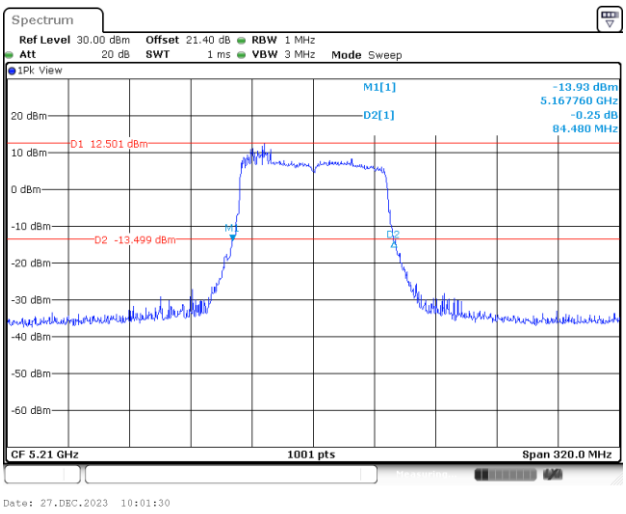
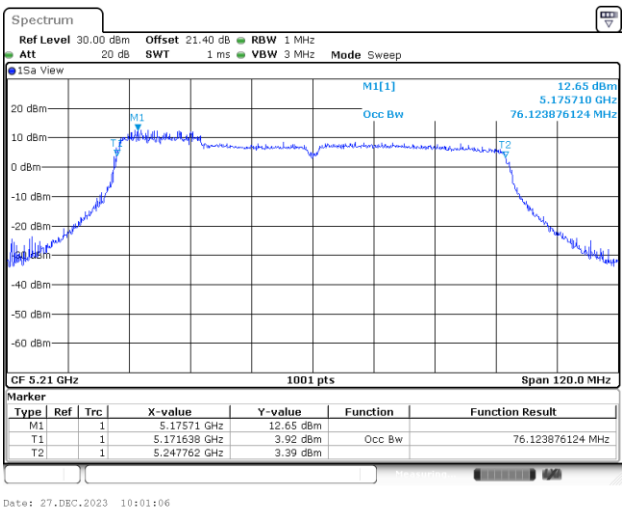
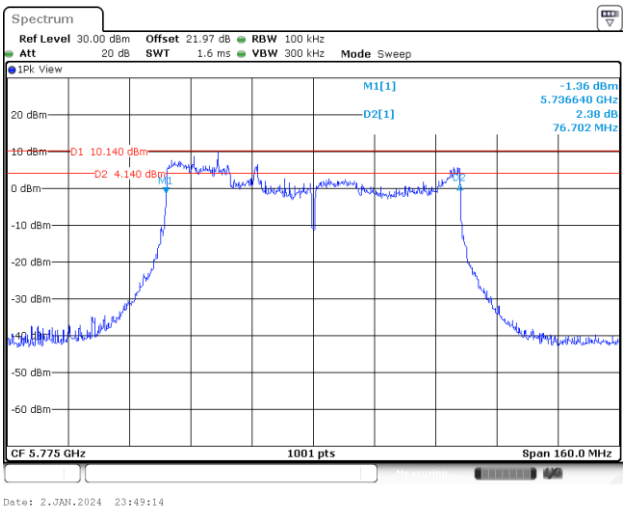
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT40>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	
	

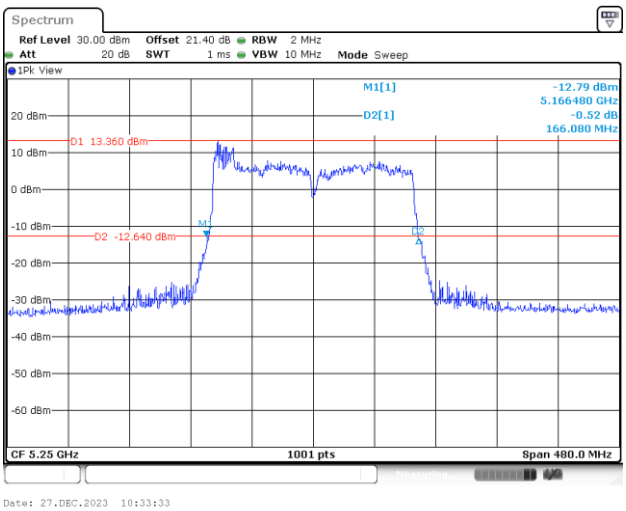
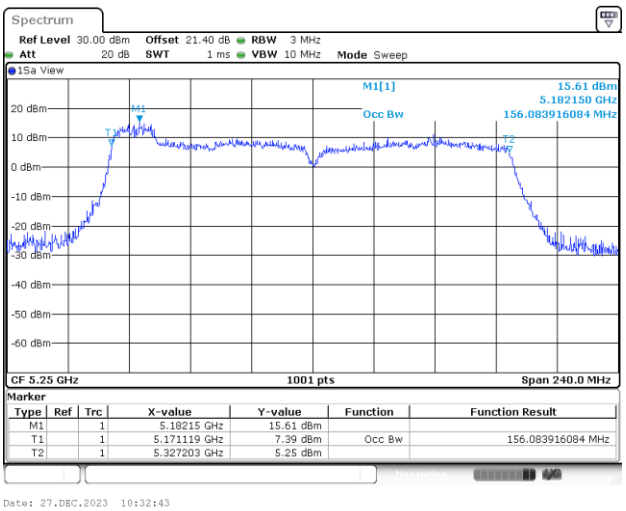
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	
	

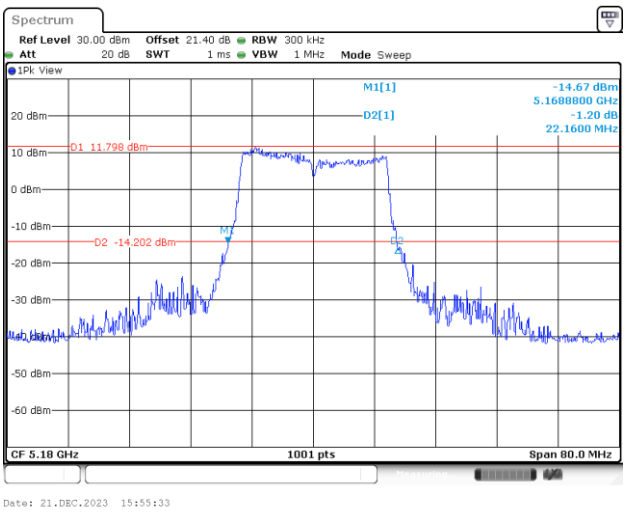
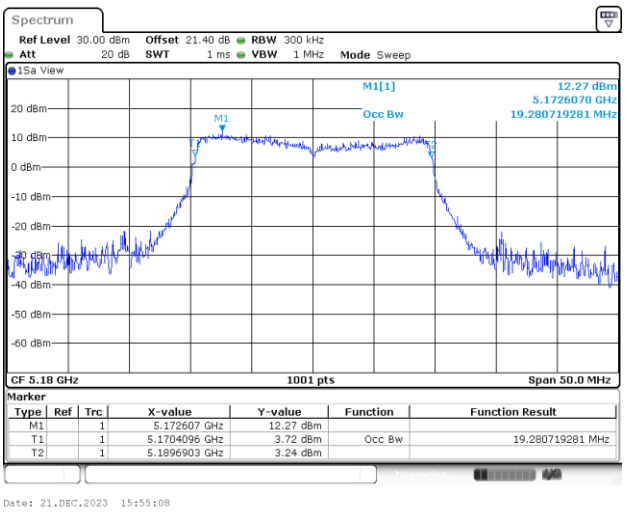
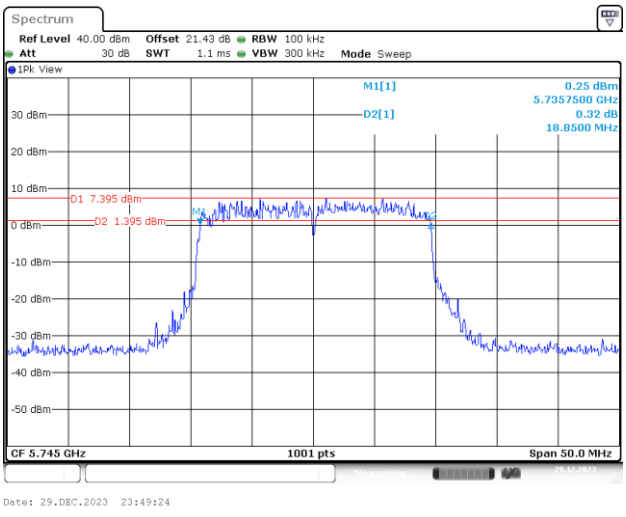
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT160>

26dB Bandwidth	99% Occupied Bandwidth
	

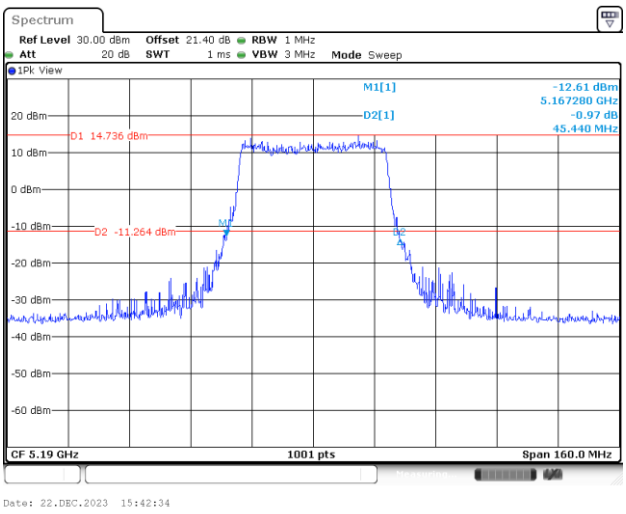
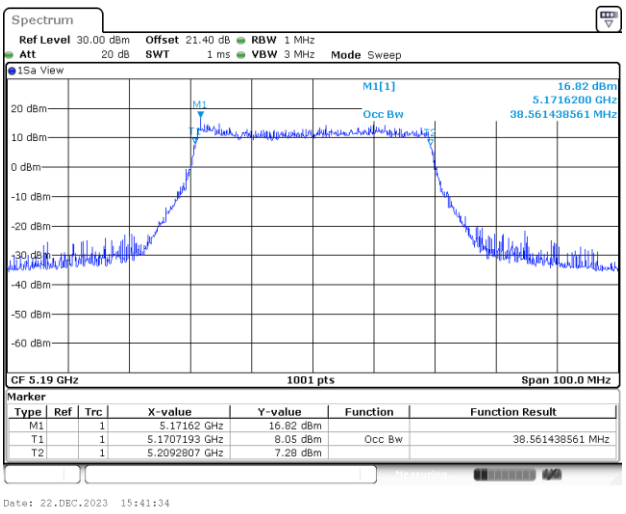
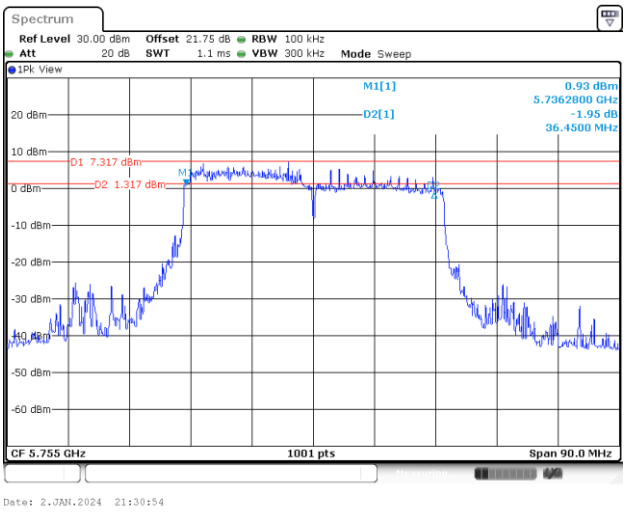
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT20>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	
	

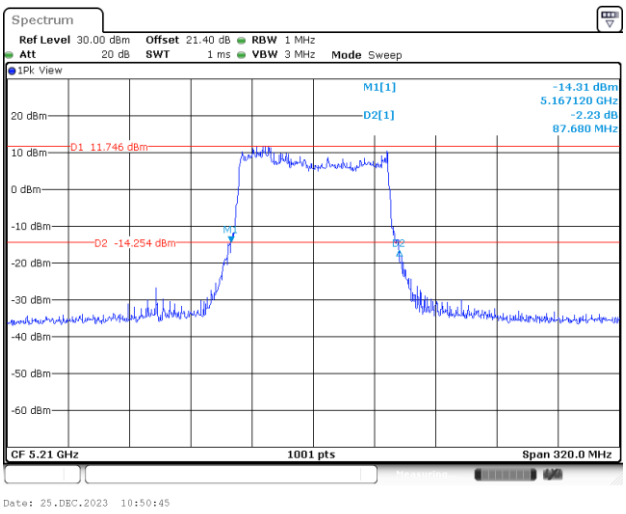
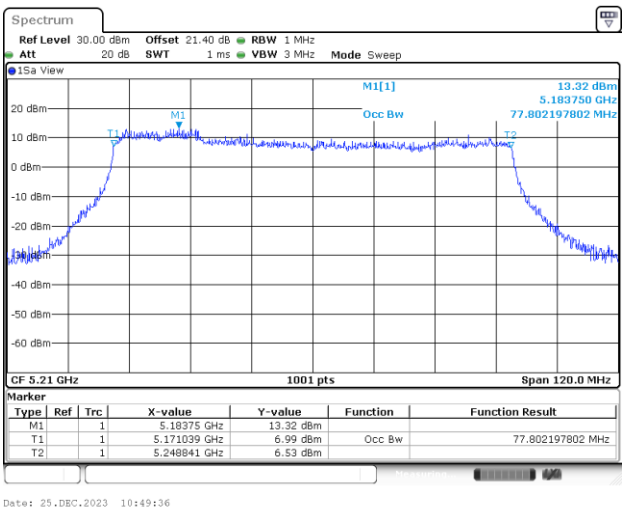
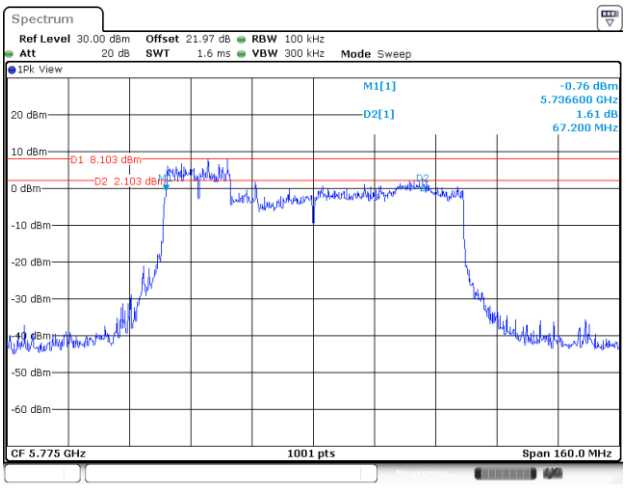
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT40>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	
	

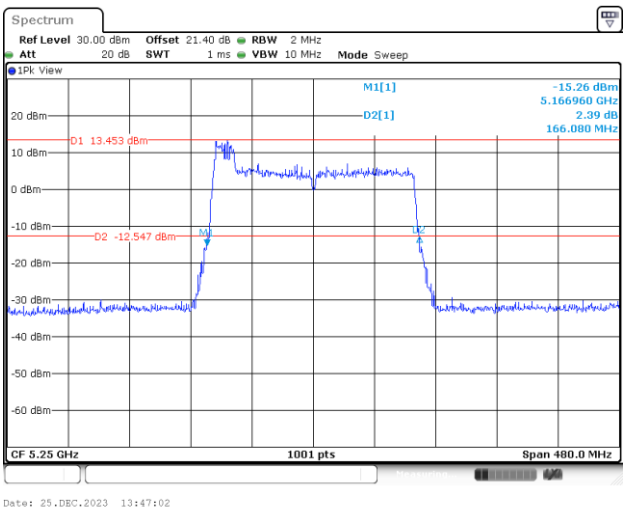
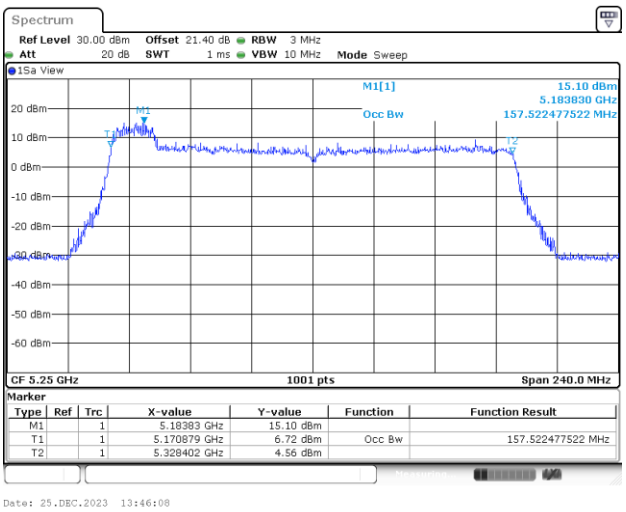
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT80>

26dB Bandwidth	99% Occupied Bandwidth
	
6dB Bandwidth	
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT160>

26dB Bandwidth	99% Occupied Bandwidth
	

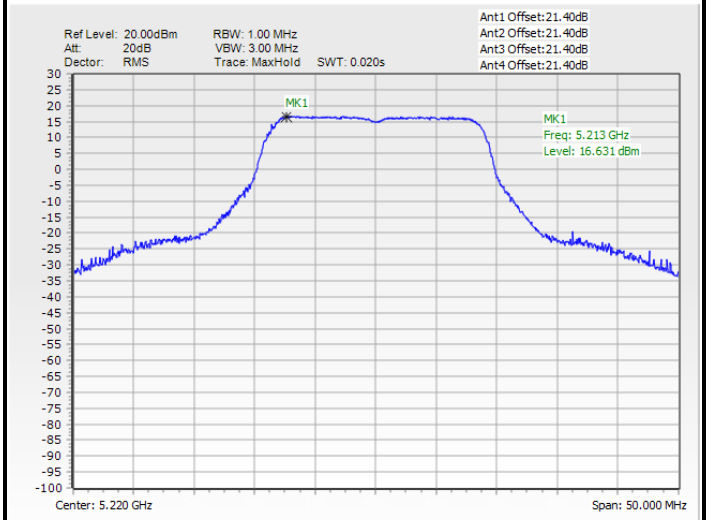
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Result of Power Spectral Density

<Band 1~3>

<802.11ac VHT20>

Maximum Power Density Plot (dBm/MHz)



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.