

TEST REPORT

Report Number: 15982168-E10V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3716 (Parent)
A3717, A3718 (Variants)

Brand : APPLE

FCC ID : BCG-E9195A (Parent)
BCG-E9196A, BCG-E9197A (Variants)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
2026-08-03

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-07-31	Initial Review	---
V2	2026-08-03	Addressed TCB feedback sections 6, 9	Naveen Movva

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3716 (Parent) A3717, A3718 (Variants)
Brand	APPLE
FCC ID	BCG-E9195A (Parent) BCG-E9196A, BCG-E9197A (Variants)
EUT Description	SMARTPHONE
Serial Number	HVHHSG0000R0001K2C, HVHHTW0007X0001K2Z, HVHHTX0006P0001K31 (Conducted) FJ1HJHQ94N, MWLQVVYQ60, C6LW49G3Y1 (Radiated)
Sample Receipt Date	2026-04-22
Date Tested	2026-04-30 to 2026-07-31
Applicable Standards	FCC 47 CFR Part 15 Subpart E
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.	
Approved & Released By:	Prepared By:
	
Thu Chan Sfatt Engineer UL Verification Services Inc.	Everardo Torres Laboratory Supervisor UL Verification Services Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Result
Duty Cycle	-	Reporting purposes only
26dB BW/99% OBW	-	Reporting purposes only
6 dB BW	15.407 (e)	Complies
Output Power	15.407 (a) (1-4), (h) (1)	Complies
PSD	15.407 (a) (1-3, 5)	Complies
Radiated Emissions	15.209, 15.205, 15.407 (b)	Complies
AC Mains Conducted Emissions	15.207	Complies

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15E
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- FCC KDB 484596 D01 Referencing Test Data
- FCC KDB 414788 D01 Radiated Test Site

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB (Ave), 1.30 dB (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB)
 – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN
 Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT RX only) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

UNII-1 BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
UNII-1 band, 1TX			
5180 - 5240	802.11a	Covered by 802.11n HT20 1TX	
5180 - 5240	802.11n HT20	19.93	98.40
5190 - 5230	802.11n HT40	19.80	95.50
5180 - 5240	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5190 - 5230	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5210	802.11ac VHT80	17.90	61.66
5250	802.11ac VHT160	15.42	34.83
5180 - 5240	802.11be EHT20	19.91	97.95
5190 - 5230	802.11be EHT40	19.80	95.50
5210	802.11be EHT80	17.02	50.35
5250	802.11be EHT160	15.44	34.99
UNII-1 band, 2TX			
5180 - 5240	802.11n HT20 CDD	21.17	130.92
5180 - 5240	802.11n HT20 SDM/STBC	Covered by 802.11n HT20 2TX CDD	
5190 - 5230	802.11n HT40 CDD	22.87	193.64
5190 - 5230	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5180 - 5240	802.11ac VHT20 SDM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5190 - 5230	802.11ac VHT40 SDM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5210	802.11ac VHT80 CDD	19.39	86.90
5210	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5250	802.11ac VHT160 CDD	16.87	48.64
5250	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5180 - 5240	802.11be EHT20 CDD	21.28	134.28
5180 - 5240	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5190 - 5230	802.11be EHT40 CDD	22.89	194.54
5190 - 5230	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5210	802.11be EHT80 CDD	18.90	77.62
5210	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5250	802.11be EHT160 CDD	16.88	48.75
5250	802.11be EHT160 SDM	Covered by 802.11be EHT80 2TX CDD	

UNII-2A BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
UNII-2A band, 1TX			
5260 - 5320	802.11a	Covered by 802.11n HT20 1TX	
5260 - 5320	802.11n HT20	19.93	98.40
5270 - 5310	802.11n HT40	19.80	95.50
5260 - 5320	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5270 - 5310	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5290	802.11ac VHT80	18.97	78.89
5250	802.11ac VHT160	15.42	34.83
5260 - 5320	802.11be EHT20	19.92	98.17
5270 - 5310	802.11be EHT40	19.81	95.72
5290	802.11be EHT80	17.68	58.61
5250	802.11be EHT160	15.44	34.99
UNII-2A band, 2TX			
5260 - 5320	802.11n HT20 CDD	21.21	132.13
5260 - 5320	802.11n HT20 SDM/STBC	Covered by 802.11n HT20 2TX CDD	
5270 - 5310	802.11n HT40 CDD	22.86	193.20
5270 - 5310	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5260 - 5320	802.11ac VHT20 SDM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5270 - 5310	802.11ac VHT40 SDM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5290	802.11ac VHT80 CDD	19.85	96.61
5290	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5250	802.11ac VHT160 CDD	16.87	48.64
5250	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5260 - 5320	802.11be EHT20 CDD	21.30	134.90
5260 - 5320	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5270 - 5310	802.11be EHT40 CDD	22.89	194.54
5270 - 5310	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5290	802.11be EHT80 CDD	18.85	76.74
5290	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5250	802.11be EHT160 CDD	16.88	48.75
5250	802.11be EHT160 SDM	Covered by 802.11be EHT160 2TX CDD	

UNII-2C BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
UNII-2C band, 1TX			
5500 - 5720	802.11a	Covered by 802.11n HT20 1TX	
5500 - 5720	802.11n HT20	19.89	97.50
5510 - 5710	802.11n HT40	19.84	96.38
5500 - 5720	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5510 - 5710	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5530 - 5690	802.11ac VHT80	19.79	95.28
5570	802.11ac VHT160	16.28	42.46
5500 - 5720	802.11be EHT20	19.99	99.77
5510 - 5710	802.11be EHT40	19.95	98.86
5530 - 5690	802.11be EHT80	19.91	97.95
5570	802.11be EHT160	16.27	42.36
UNII-2C band, 2TX			
5500 - 5720	802.11n HT20 CDD	21.20	131.83
5500 - 5720	802.11n HT20 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5510 - 5710	802.11n HT40 CDD	22.89	194.54
5510 - 5710	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5500 - 5720	802.11ac VHT20 SDM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5510 - 5710	802.11ac VHT40 SDM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5530 - 5690	802.11ac VHT80 CDD	22.81	190.99
5530 - 5690	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5570	802.11ac VHT160 CDD	17.82	60.53
5570	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5500 - 5720	802.11be EHT20 CDD	21.31	135.21
5500 - 5720	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5510 - 5710	802.11be EHT40 CDD	22.95	197.24
5510 - 5710	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5530 - 5690	802.11be EHT80 CDD	22.89	194.54
5530 - 5690	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5570	802.11be EHT160 CDD	17.81	60.39
5570	802.11be EHT160 SDM	Covered by 802.11be EHT160 2TX CDD	

UNII-3 BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8 GHz band, 1TX			
5745 - 5825	802.11a	Covered by 802.11n HT20 1TX	
5745 - 5825	802.11n HT20	19.93	98.40
5755 - 5795	802.11n HT40	19.82	95.94
5745 - 5825	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5755 - 5795	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5775	802.11ac VHT80	19.91	97.95
5745 - 5825	802.11be EHT20	19.93	98.40
5755 - 5795	802.11be EHT40	19.91	97.95
5775	802.11be EHT80	19.92	98.17
5.8 GHz band, 2TX			
5745 - 5825	802.11n HT20 CDD	22.87	193.64
5745 - 5825	802.11n HT20 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5755 - 5795	802.11n HT40 CDD	22.81	190.99
5755 - 5795	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5745 - 5825	802.11ac VHT20 STM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5755 - 5795	802.11ac VHT40 STM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5775	802.11ac VHT80 CDD	22.89	194.54
5775	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5745 - 5825	802.11be EHT20 CDD	22.90	194.98
5745 - 5825	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5755 - 5795	802.11be EHT40 CDD	22.89	194.54
5755 - 5795	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5775	802.11be EHT80 CDD	22.94	196.79
5775	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLES LOSS

The antenna(s) gain and type (PIFA), as provided by the manufacturer' are as follows:

Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-3.7	3.0	0.60	2.80
5250 - 5350 UNII - 2A	-3.5	4.2	1.70	3.90
5500 - 5700 UNII - 2C	-0.9	4.0	1.90	4.50
5725 - 5825 UNII 3	-1.4	3.4	1.20	3.80

Cable Loss		
Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)
5150 - 5250 UNII - 1	-2.78	-2.61
5250 - 5350 UNII - 2A	-2.78	-2.60
5500 - 5700 UNII - 2C	-2.95	-2.74
5725 - 5825 UNII 3	-3.01	-2.80

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware is 24A349.

6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. The following table exhibits the worst-case orientation. The full tests of the EUT have been made upon the orientations shown in the table below.

Band	ANT6	ANT16	ANT6+ANT16
5GHz	Z-Landscape	Y-Landscape	Z-Landscape

802.11n 2TX and 802.11be 2TX modes were used to perform on radiated harmonic spurious final test to cover all SISO modes. Max power was tuned to maximum based on among all the modes. For testing purposes, radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the 2TX CDD mode among the CDD/SDM modes with power setting equal or higher than FCC/ISED conducted SISO modes as worst-case scenario.

For Radiated band edge test all test modes have been investigated with power setting equal or higher than FCC/ISED conducted SISO modes as worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

All simultaneous transmission combinations have been investigated, and no signal emissions were observed.

With same power on Full RU and SU higher data rate, investigation were performed on both band edge to determine the worst case, and SU mode was determined to be the worst case.

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. For radiated band edge, the following are the worst-case data rates set for test:

802.11n HT20 mode: MCS7
 802.11n HT40 mode: MCS7
 802.11ac VHT80 mode: MCS9
 802.11ac VHT160 mode MCS9
 802.11be: EHT20/ EHT40/ EHT80/EHT160 RU, MRU, and SU mode: MCS11

802.11a and 802.11ac are covered by 802.11n because the modulation and bandwidth of 802.11a, 802.11ac, and 802.11n modes are similar, and the target power of 802.11a and 802.11ac modes are equal to or lower than that of 802.11n mode. The modulation and bandwidth of 802.11ax and 802.11be modes are similar at 20 MHz (40 MHz, 80 MHz, 160 MHz), and the target power of 802.11ax mode is equal to or lower than that of 802.11be mode, and the data rate of 802.11be mode is higher than 802.11ax mode, so 802.11be mode is performed in the test to represent worst-case reporting.

The target power of SDM mode is equal to or lower than that of CDD mode. CDD correlated antenna gain is also worst-case, so CDD mode is performed in the test to represent worst-case reporting.

40MHz/80MHz/160MHz 242T are covered by 20MHz SU/242T and
 80MHz/160MHz 484T are covered by 40MHz SU/484T because they have the same tune up. Only those indexes with different tune up are set for tests.

Plots included in the report are representative of the method and settings parameters used for the test.

If Keysight PXA supporting both AC and DC coupling then there will be a warning condition message appearing on the status line "DC coupled".

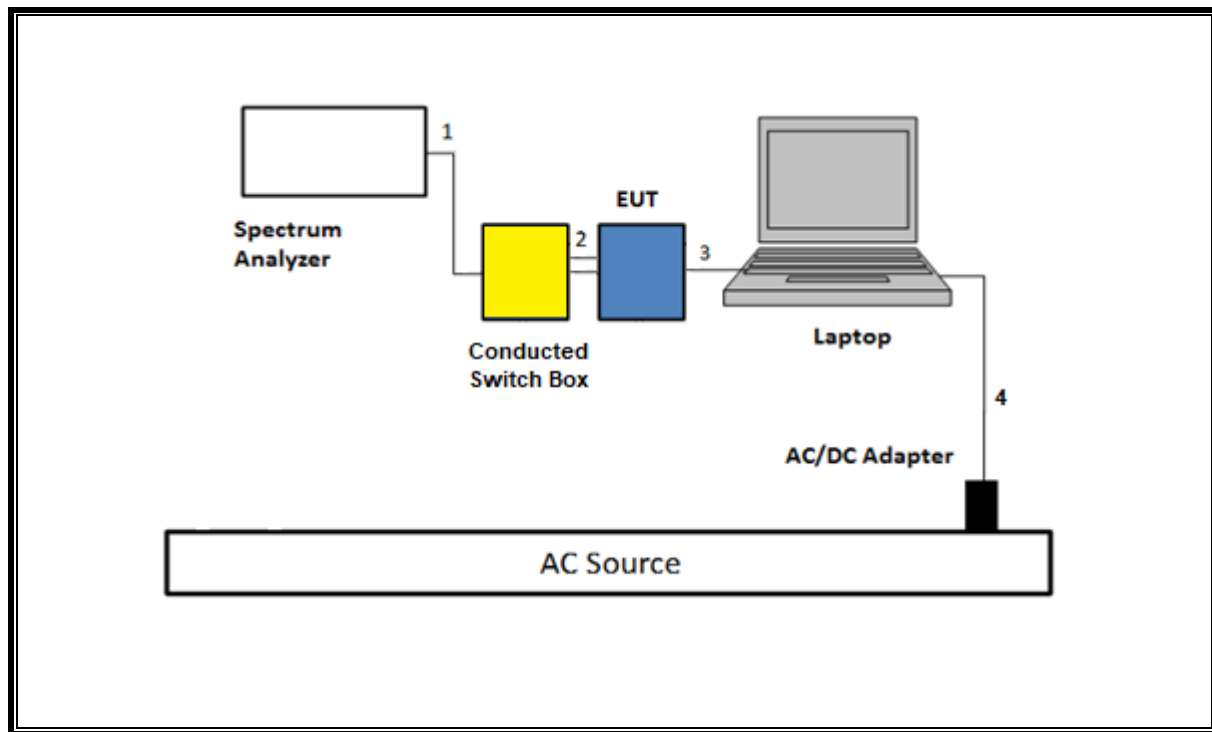
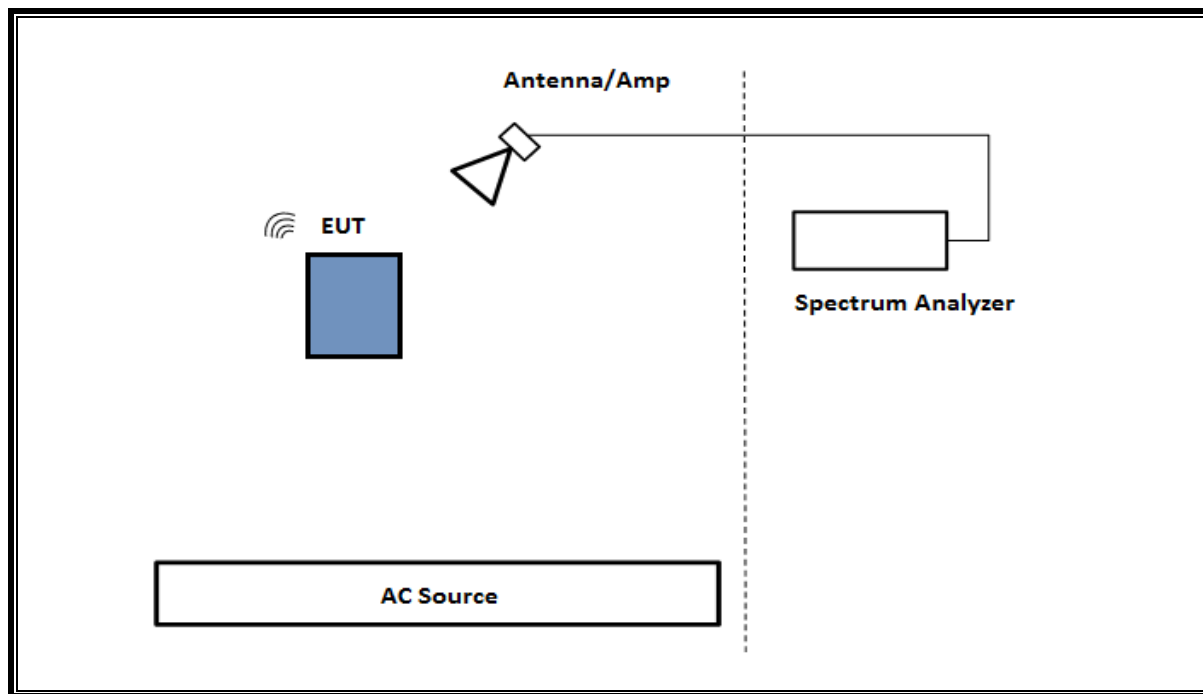
WIFI 7 - 802.11be																					
BW (MHz)	Tone (T)	RU Index	Test RU Index			Worst Case Tone (UNII-1 SISO)		Worst Case Tone (UNII-1 MIMO)		Worst Case Tone (UNII-2a SISO)		Worst Case Tone (UNII-2a MIMO)		Worst Case Tone (UNII-2c SISO)		Worst Case Tone (UNII-2c MIMO)		Worst Case Tone (UNII-3 SISO)		Worst Case Tone (UNII-3 MIMO)	
			Low	Mid	High	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD
20	26	0 ~ 8	0	4	8														X		X
	52	37 ~ 40	37	38	40		x		x		x		x		x		x				
	52 + 26	70 ~ 81	70	71	72																
	106	53 ~ 54	53	--	54																
	106 + 26	82 ~ 89	82	--	83																
	242	61	--	61	--																
40	SU	--	--	--	--	X		X		X		X		X		X		X		X	
	484	65	--	65	--																
80	SU	--			--	X		X		X		X		X		X		X		X	
	484 + 242	90, 91, 92, 93	91	93	92		X		X		X		X		X		X		X		X
	996	67	--	67	--																
	SU	--	--	--	--	X		X		X		X		X		X		X		X	
160	996 + 484	sb0: 94, 95 sb1: 94, 95	95 (sb0)	95 (sb1)	94 (sb1)		X		X		X		X		X		X				
	996 + 484 + 242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	99 (sb1)	99 (sb0)	96 (sb0)																
	996x2	S68	--	S68	--																
	SU	--	--	--	--	X		X		X		X		X		X					

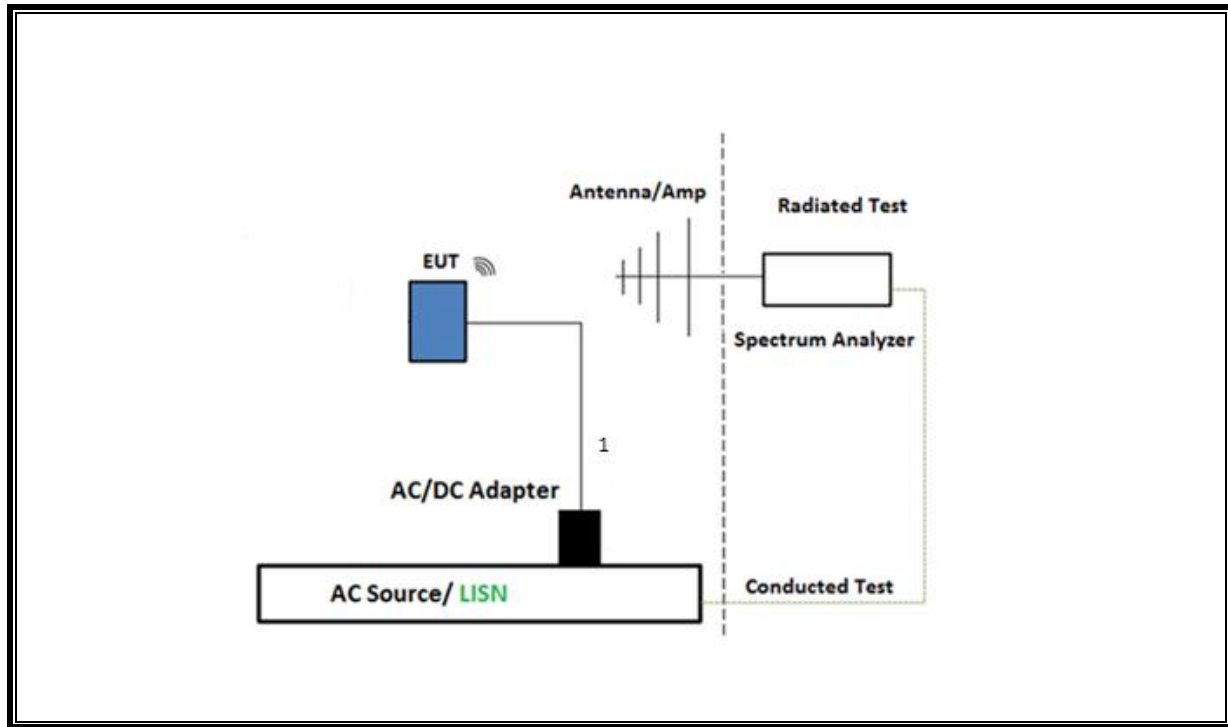
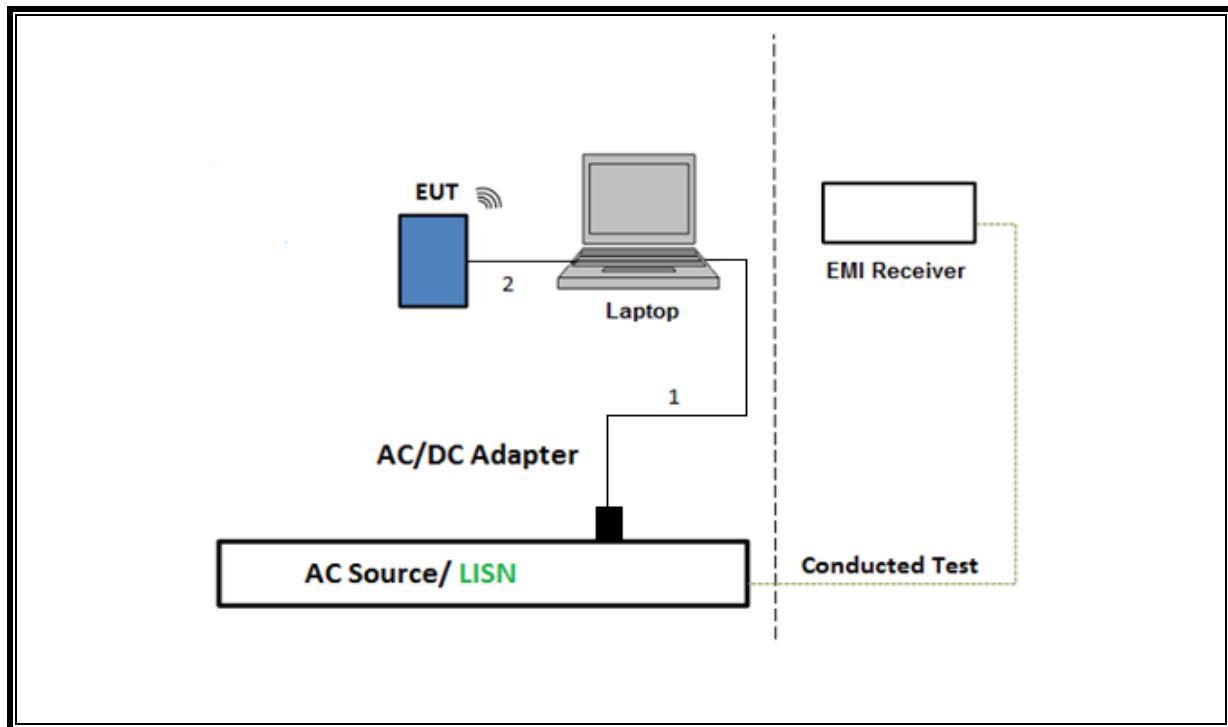
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter		Apple	A1720	C3D8417A7R93KVPA8		DoC
Conducted Switch Box		UL	n/a	208281		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shielded	1.0	N/A
4	DC	1	DC	Shielded	2	N/A
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A

TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

SETUP DIAGRAM FOR CONDUCTED TESTS**SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz**

SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST**TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	250156	2026-10-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	226674	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2027-02-28
Filter Box	UL-FR1	R102, 1 Amp, 12 Port	230878	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200897	2028-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	277010	2027-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169933	2027-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80402	2027-07-31
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	231874	2027-01-31
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171389	2027-03-30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222740	2026-09-09
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226078	2027-02-28
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171875	2027-03-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80707	2027-08-31
EMI TEST RECEIVER, with B8 option	Rohde & Schwarz	ESW44	245268	2028-02-28
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 8 Port	197920	2027-04-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206806	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	225688	2027-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191429	2027-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206807	2027-04-30
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171013	2027-06-30
Filter Box	UL-FR1	RATS 3.0, 3 Amp, 7 Port	243707	2027-04-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	41112	2026-10-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	216812	2027-07-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200896	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	230548	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	217521	2026-09-30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222741	2027-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223461	2027-02-28
Filter Box	UL-FR1	Frankenstein, 2 Amp, 12	224478	2027-01-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80430	2026-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201499	2027-03-30
Filter Box	UL-FR1	R103 2Amp 12Port	235088	2027-05-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200785	2026-12-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201500	2027-02-28
Filter Box	UL-FR1	R103, 2 Amp, 12 Port	278885	2027-06-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	79834	2027-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201502	2027-02-28
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	236726	2026-09-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80403	2026-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	231876	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	84796	2027-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201497	2027-02-28
*Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225474	2026-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	230300	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201501	2027-02-28
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225575	2027-01-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	81887	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2027-04-30
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	226781	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206805	2026-08-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223459	2027-02-28
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	226780	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	230299	2027-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226079	2027-02-26

TEST EQUIPMENT LIST CONTINUED				
Description	Manufacturer	Model	ID Num	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A-544	87738	2027-01-31
RF Device, Switch	UL	CSB	245774	2026-10-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	222074	2027-04-30
RF Device, Switch	UL	CSB	262288	2026-12-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85214	2027-01-31
RF Device, Switch	UL	CSB	245783	2027-01-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2027-01-31
RF Device, Switch	UL	CSB	245781	2026-12-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85313	2027-01-31
RF Device, Switch	UL	CSB	235779	2026-12-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2027-01-31
RF Device, Switch	UL	CSB	245773	2026-12-31
PXA, Signal Analyzer	Keysight Technologies Inc	N9030B-526	275855	2027-02-27
RF Device, Switch	UL	CSB	274334	2027-01-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85212	2027-01-31
RF Device, Switch	UL	CSB	267441	2027-01-31
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	170014	2027-09-30
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	170016	2027-09-30
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	208277	2027-01-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	204044	2027-03-31
Link File, RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	172345	2027-06-30
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172366	2027-05-31
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172363	2027-05-31
Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	171580	2027-06-30
Power Sensor, Real-Time Peak, 50MHz to 8GHz	Boonton Electronics	RTP5008	213183	2027-01-31
Power Sensor, Real-Time Peak, 50MHz to 8GHz	Boonton Electronics	RTP5008	213206	2027-01-31
Power Sensor, Real-Time Peak, 50MHz to 8GHz	Boonton Electronics	RTP5008	277849	2027-03-31

AC LINE CONDUCTED				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESCI 7	82297	2027-02-28
Transient Limiter / Attenuator	Tekbox	TBFL1	207996	2026-12-30
LISN	Fischer Custom Communications, Inc.	FCC-LISN-50/250-25-2-01-480V	175765	2027-01-31

UL AUTOMATION SOFTWARE			
Conducted Software	UL	Antenna Port	Ver 2024.2.23
Conducted Software	UL	Station Tool	Ver 2026.6.0
Radiated Software	UL	UL EMC	Ver 9.5, Aug 25, 2025
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Aug 25, 2025

*Testing was completed before calibration due date and/or after calibration was completed.

8. MEASUREMENT METHOD

TEST ITEM	TEST METHOD
On Time and Duty Cycle	ANSI C63.10 Subclause -12.2
6 dB Emission BW	ANSI C63.10 Subclause -12.5.1
26 dB Emission BW	ANSI C63.10 Subclause -12.5.2
99% Occupied BW	ANSI C63.10 Subclause - 6.9.3
Conducted Output Power	ANSI C63.10 Subclause -12.4.3.2 (Method PM-G)
Power Spectral Density	ANSI C63.10 Subclause -12.6
Unwanted Emissions in Restricted Bands	ANSI C63.10 Subclause -12.7.2
Unwanted Emissions in Non-Restricted Bands	ANSI C63.10 Subclause -12.7.3
AC Power Line Conducted Emissions	ANSI C63.10, Section 6.2
Radiated Spurious Emissions Below 30MHz	ANSI C63.10, Section 6.4

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

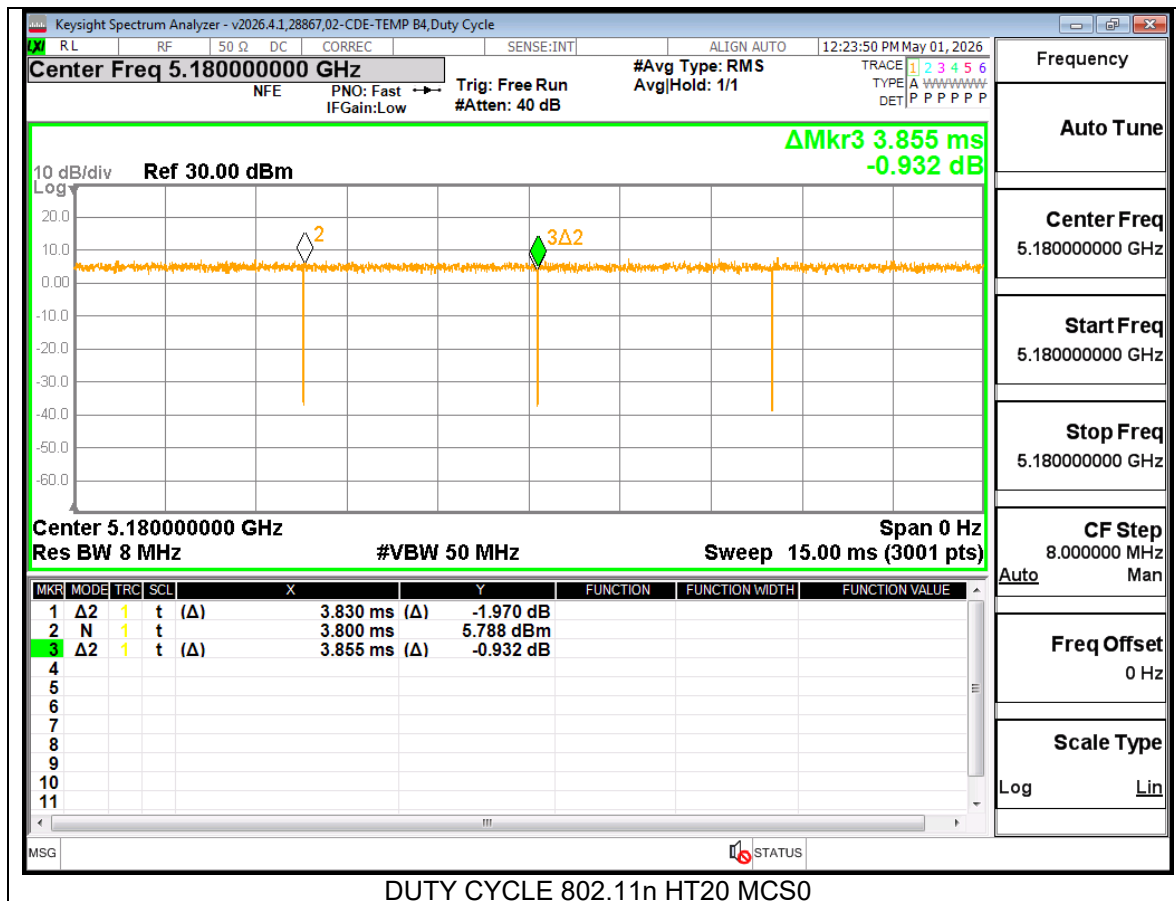
PROCEDURE

ANSI C63.10, Subclause 12.2.

ON TIME AND DUTY CYCLE RESULTS

Mode	Tone	Data Rate (Mbps)	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
11n HT20	None	MCS0	3.830	3.855	0.9935	99.35	0.00	0.010
		MCS7	4.010	4.035	0.9938	99.38	0.00	0.010
11n HT40	None	MCS0	4.595	4.620	0.9946	99.46	0.00	0.010
		MCS7	1.948	1.973	0.9873	98.73	0.00	0.010
11ac VHT80	None	MCS0	5.087	5.107	0.9961	99.61	0.00	0.010
		MCS9	2.061	2.085	0.9885	98.85	0.00	0.010
11ac VHT160	None	MCS0	5.293	5.313	0.9962	99.62	0.00	0.010
		MCS9	1.052	1.077	0.9768	97.68	0.10	0.951
11be EHT20	SU	MCS0	4.620	4.655	0.9925	99.25	0.00	0.010
		MCS11	5.433	5.460	0.9951	99.51	0.00	0.010
	26T	MCS0	2.029	2.067	0.9816	98.16	0.00	0.010
		MCS11	2.027	2.067	0.9806	98.06	0.00	0.010
	52T	MCS0	2.027	2.064	0.9821	98.21	0.00	0.010
		MCS11	2.029	2.067	0.9816	98.16	0.00	0.010
11be EHT40	SU	MCS0	5.373	5.400	0.9950	99.50	0.00	0.010
		MCS11	2.980	3.003	0.9923	99.23	0.00	0.010
11be EHT80	SU	MCS0	5.140	5.167	0.9948	99.48	0.00	0.010
		MCS11	1.462	1.487	0.9832	98.32	0.00	0.010
	484+242T	MCS0	2.029	2.067	0.9816	98.16	0.00	0.010
		MCS11	2.029	2.067	0.9816	98.16	0.00	0.010
11be EHT160	SU	MCS0	5.320	5.347	0.9950	99.50	0.00	0.010
		MCS11	0.766	0.791	0.9684	96.84	0.14	1.305
	996+484T	MCS0	2.027	2.064	0.9821	98.21	0.00	0.010
		MCS11	2.029	2.067	0.9816	98.16	0.00	0.010

Note: The same DCCF is used for both 1TX and 2TX.



9.2. 26 dB AND 99% BANDWIDTH LIMITS

None; for reporting purposes only.

PROCEDURE

ANSI C63.10

Band	Tones	20MHz (RBW/VBW)	40MHz (RBW/VBW)	80MHz (RBW/VBW)	160MHz (RBW/VBW)
UNII- 1/2a/2c/3	Partial RU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

Plots included in the report are representative of the method and settings parameters used for the test.

ID:	116986	Date:	2026-05-01
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9.2.1. 802.11n/ac SISO MODE

Band (SISO)	Mode	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
				ANT6	ANT16	ANT6	ANT16
UNII-1	HT20 (FCC)	5180	36	20.89	21.05	17.65	17.60
		5200	40	22.32	22.59	17.92	17.89
		5240	48	22.08	23.29	17.88	18.01
	HT40	5190	38	41.72	42.43	36.11	36.12
		5230	46	43.39	43.40	36.50	36.48
	VHT80	5210	42	80.49	80.76	75.27	75.37
UNII-2A	HT20	5260	52	22.72	21.82	17.93	17.78
		5300	60	23.00	22.47	17.88	17.84
		5320	64	21.23	20.80	17.55	17.57
	HT40	5270	54	43.92	43.17	36.41	36.32
		5310	62	41.67	41.47	36.06	36.06
	VHT80	5290	58	80.90	79.86	75.56	75.31
UNII-2C	HT20	5250	50	162.50	163.10	154.43	154.21
		5500	100	23.51	23.14	18.11	18.14
		5580	116	23.31	23.86	18.11	18.15
		5700	140	23.71	23.81	18.14	18.14
	HT40	5720 (Straddle)	144	23.07	23.59	18.09	18.13
		5510	102	44.98	44.63	36.91	36.79
		5550	110	46.35	45.15	36.80	36.89
		5670	134	45.51	44.72	36.84	36.85
	VHT80	5710 (Straddle)	142	44.84	46.07	36.60	36.80
		5530	106	81.61	81.60	75.95	75.96
		5610	122	81.93	81.63	76.00	75.95
		5690 (Straddle)	138	81.43	81.37	75.82	75.82
UNII-3	VHT160	5570	114	164.10	164.40	154.85	155.00
		5745	149	23.28	24.02	18.08	18.19
		5785	157	23.42	23.77	18.14	18.13
	HT20	5825	165	23.42	23.47	18.14	18.23
		5755	151	44.66	44.91	36.88	36.88
	VHT80	5795	159	45.69	45.94	36.98	36.96
UNII-3	VHT80	5775	155	81.60	81.29	75.83	75.89

9.2.2. 802.11n/ac MIMO CDD MODE

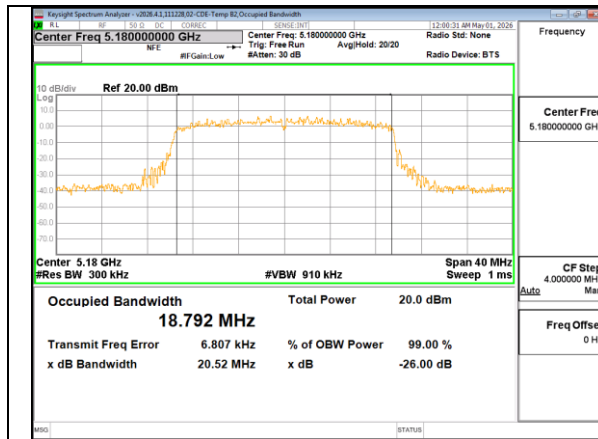
Band (MIMO CDD)	Mode	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
				ANT6	ANT16	Min BW	ANT6	ANT16	Min BW
UNII-1	HT20 (FCC)	5180	36	20.69	20.66	—	17.62	17.56	—
		5200	40	21.62	21.19	—	17.84	17.86	—
		5240	48	22.15	21.57	—	17.78	17.88	—
	HT40 (FCC)	5190	38	41.63	40.23	—	36.11	36.05	—
		5230	46	42.43	42.38	—	36.43	36.45	—
	VHT80 (FCC)	5210	42	80.12	80.59	—	75.48	75.56	—
UNII-2A	HT20	5260	52	22.43	21.73	21.73	17.91	17.84	17.84
		5300	60	22.27	21.18	21.18	17.87	17.80	17.80
		5320	64	21.57	20.43	20.43	17.56	17.62	17.56
	HT40	5270	54	43.98	42.05	42.05	36.44	36.34	36.34
		5310	62	40.94	40.70	40.70	36.13	36.14	36.13
	VHT80	5290	58	79.88	79.76	79.76	75.52	75.25	75.25
UNII-2C	HT20	5250	50	163.10	162.50	162.50	154.30	154.37	154.30
		5500	100	23.81	22.39	22.39	18.10	18.09	18.09
		5580	116	23.75	23.33	23.33	18.16	18.04	18.04
		5700	140	23.29	23.04	23.04	18.18	18.04	18.04
	HT40	5720 (Straddle)	144	22.66	23.60	22.66	17.98	18.04	17.98
		5510	102	45.48	45.23	45.23	36.81	36.68	36.68
		5550	110	45.65	44.00	44.00	36.90	36.63	36.63
		5670	134	45.63	44.21	44.21	36.79	36.71	36.71
	VHT80	5710 (Straddle)	142	44.58	44.39	44.39	36.66	36.72	36.66
		5530	106	81.38	81.55	81.38	75.91	75.88	75.88
		5610	122	81.66	81.40	81.40	75.98	76.05	75.98
		5690 (Straddle)	138	81.53	81.34	81.34	75.78	75.99	75.78
UNII-3	VHT160	5570	114	163.70	163.00	163.00	154.82	154.99	154.82
		5745	149	22.88	23.10	—	18.08	18.05	—
		5785	157	23.29	23.22	—	18.10	18.11	—
	HT20	5825	165	23.53	23.19	—	18.14	18.12	—
		5755	151	44.97	44.83	—	36.88	36.66	—
		5795	159	44.79	43.19	—	36.83	36.68	—
UNII-3	VHT80	5775	155	81.48	81.40	—	76.01	75.92	—

9.2.3. 802.11be SISO MODE IN THE UNII-1 BAND

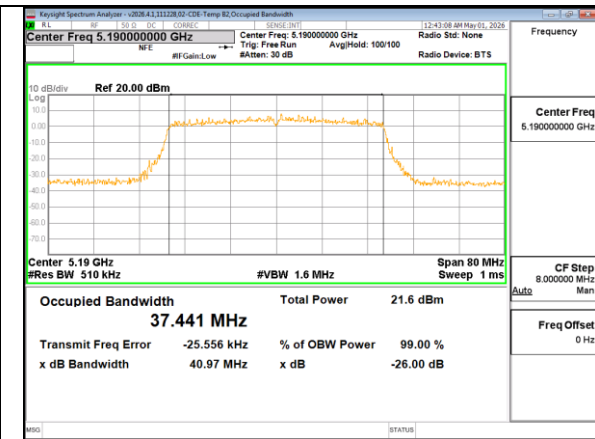
UNII-1 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT16	ANT6	ANT16
EHT20 (FCC)	5180	36	SU	—	20.52	20.61	18.79	18.81
			52T	37	20.50	21.41	18.15	18.39
				38	18.78	18.90	17.00	17.02
				40	20.71	20.82	18.28	18.40
	5200	40	SU	—	22.02	21.68	18.98	19.01
			52T	37	20.65	20.49	18.19	18.16
				38	18.18	18.33	16.48	16.54
				40	20.72	19.94	18.33	17.87
	5240	48	SU	—	21.45	22.29	18.93	18.97
			52T	37	21.15	21.27	18.41	18.44
				38	18.94	18.21	16.99	16.50
				40	21.06	20.76	18.33	18.30
EHT40 (FCC)	5190	38	SU	—	40.97	42.12	37.44	37.55
	5230	46	SU	—	42.93	43.65	38.02	38.05
EHT80 (FCC)	5210	42	SU	—	81.65	81.64	76.85	76.99
			484+242T	91	81.53	81.50	77.22	77.29
				93	63.20	62.80	58.55	58.30
				92	81.97	81.76	77.32	77.43
EHT160 (FCC)	5250 (Straddle)	50	SU	—	163.70	162.70	155.88	155.55
			996+484T	95	171.80	170.65	157.38	157.23
				S95	125.17	124.29	117.28	117.27
				S94	172.91	172.38	157.42	157.04

9.2.4. 802.11be MIMO CDD MODE IN THE UNII-1 BAND

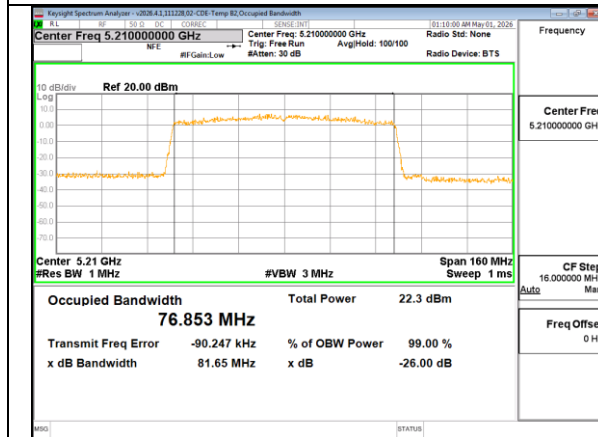
UNII-1 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
					ANT6	ANT16	Min BW	ANT6	ANT16	Min BW
EHT20 (FCC)	5180	36	SU	—	23.66	23.39	—	19.25	19.21	—
				37	21.35	20.52	—	18.43	18.25	—
			52T	38	18.84	18.49	—	16.89	16.87	—
				40	20.79	20.27	—	18.28	18.19	—
	5200	40	SU	—	23.48	23.33	—	19.25	19.21	—
				37	21.14	20.38	—	18.43	18.23	—
			52T	38	19.04	18.45	—	16.99	16.85	—
				40	20.58	20.29	—	18.20	18.21	—
	5240	48	SU	—	23.88	23.11	—	19.10	19.16	—
				37	21.38	20.85	—	18.43	18.22	—
			52T	38	18.90	18.33	—	16.90	16.80	—
				40	20.47	20.51	—	18.28	18.19	—
EHT40 (FCC)	5190	38	SU	—	45.72	45.02	—	38.25	38.17	—
	5230	46	SU	—	45.89	45.29	—	38.27	38.20	—
EHT80 (FCC)	5210	42	484+242T	SU	80.84	81.01	—	76.86	77.01	—
				91	81.35	81.46	—	77.23	77.41	—
				93	62.77	63.03	—	58.30	58.17	—
				92	82.38	81.69	—	77.89	77.41	—
EHT160 (FCC)	5250 (Straddle)	50	996+484T	SU	164.1	164.7	—	156.25	155.91	—
				95	172.09	170.56	—	157.22	157.02	—
				S95	125.27	124.51	—	117.18	117.27	—
				S94	172.87	171.64	—	157.28	157.13	—



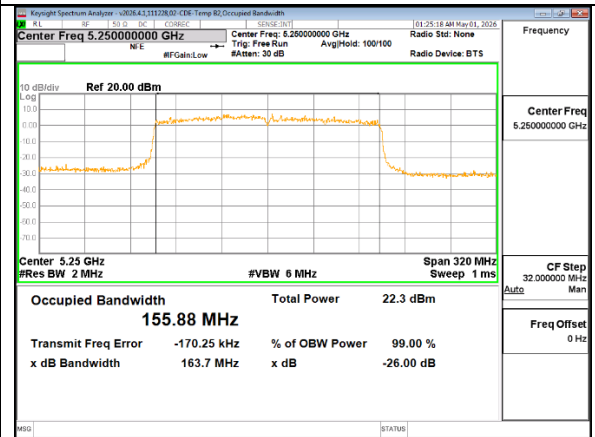
20 MHz - UNII-1 - SISO - Low Channel - ANT6



40 MHz - UNII-1 - SISO - Low Channel - ANT6



80 MHz - UNII-1 - SISO - Low Channel - ANT6



160 MHz - UNII-1 - SISO - Low Channel - ANT6

9.2.5. 802.11be SISO MODE IN THE UNII-2A BAND

UNII-2A (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT16	ANT6	ANT16
EHT20	5260	52	SU	—	22.23	22.00	18.95	19.00
			52T	37	21.33	21.35	18.34	18.42
				38	18.87	18.91	16.95	16.95
				40	20.68	20.58	18.30	18.29
	5300	60	SU	—	21.79	22.15	18.98	18.98
			52T	37	21.52	21.25	18.46	18.39
				38	18.97	18.96	16.93	16.99
				40	20.73	20.91	18.26	18.30
	5320	64	SU	—	20.78	20.72	18.80	18.85
			52T	37	21.42	21.42	18.40	18.42
				38	19.01	18.78	16.98	16.97
				40	20.72	20.72	18.28	18.26
EHT40	5270	54	SU	—	43.91	43.44	38.08	37.91
	5310	62	SU	—	42.37	41.55	37.64	37.59
EHT80	5290	58	SU	—	81.87	81.63	77.28	77.00
			484+242T	91	82.05	82.15	77.98	77.94
				93	63.34	63.24	58.64	58.73
				92	82.57	82.28	77.92	77.83
EHT160	5250 (Straddle)	50	SU	—	163.70	162.70	155.88	155.55
			996+484T	95	171.80	170.65	157.38	157.23
				S95	125.17	124.29	117.28	117.27
				S94	172.91	172.38	157.42	157.04

9.2.6. 802.11be MIMO CDD MODE IN THE UNII-2A BAND

UNII-2A (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
					ANT6	ANT16	Min BW	ANT6	ANT16	Min BW
EHT20	5260	52	SU	—	22.88	21.97	21.97	18.98	18.97	18.97
				37	21.17	20.53	20.53	18.45	18.25	18.25
			52T	38	18.89	18.43	18.43	16.98	16.84	16.84
				40	20.87	20.74	20.74	18.29	18.23	18.23
	5300	60	SU	—	22.06	21.63	21.63	19.02	18.98	18.98
				37	20.84	20.65	20.65	18.39	18.28	18.28
			52T	38	18.95	18.43	18.43	17.01	16.75	16.75
				40	20.88	20.14	20.14	18.36	18.19	18.19
	5320	64	SU	—	20.92	20.94	20.92	18.77	18.75	18.75
				37	21.36	20.96	20.96	18.44	18.23	18.23
			52T	38	18.82	18.45	18.45	16.98	16.85	16.85
				40	20.96	20.26	20.26	18.26	18.19	18.19
EHT40	5270	54	SU	—	43.79	43.00	43.00	38.01	37.89	37.89
	5310	62	SU	—	41.57	41.56	41.56	37.63	37.53	37.53
EHT80	5290	58	484+242T	SU	—	81.21	80.84	80.84	77.19	76.94
				91	82.72	82.24	82.24	77.86	77.86	77.86
				93	63.18	62.50	62.50	58.60	58.62	58.60
				92	81.84	82.46	81.84	77.93	77.87	77.87
EHT160	5250 (Straddle)	50	996+484T	SU	—	164.10	164.70	164.10	156.25	155.91
				95	172.09	170.56	170.56	157.22	157.02	157.02
				S95	125.27	124.51	124.51	117.18	117.27	117.18
				S94	172.87	171.64	171.64	157.28	157.13	157.13

9.2.7. 802.11be SISO MODE IN THE UNII-2C BAND

UNII-2C (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT16	ANT6	ANT16
EHT20	5500	100	SU	—	23.05	23.64	19.17	19.16
			52T	37	21.19	21.34	18.46	18.42
				38	18.90	18.38	17.01	16.48
				40	20.74	20.17	18.20	17.91
	5580	116	SU	—	23.22	23.38	19.18	19.20
			52T	37	20.32	21.34	18.12	18.39
				38	19.00	18.77	17.02	17.01
				40	20.03	20.72	17.98	18.21
	5700	140	SU	—	23.69	22.97	19.19	19.12
			52T	37	21.45	20.23	18.40	18.19
				38	18.89	18.31	17.05	16.49
				40	20.78	20.00	18.23	17.99
	5720 (Straddle)	144	SU	—	23.35	23.18	19.10	19.13
			52T	37	20.57	21.14	18.15	18.41
				38	18.45	18.86	16.52	17.00
				40	20.10	20.74	18.02	18.26
EHT40	5510	102	SU	—	41.67	40.91	37.61	37.64
	5550	110	SU	—	43.87	43.87	37.96	38.05
	5670	134	SU	—	42.42	43.28	37.97	37.93
	5710 (Straddle)	142	SU	—	42.27	42.21	37.88	37.95
EHT80	5530	106	SU	—	81.29	81.47	76.91	76.81
			484+242T	91	82.78	82.40	77.86	77.86
				93	63.59	63.20	58.63	58.54
				92	82.35	82.49	77.87	77.94
	5610	122	SU	—	82.72	82.18	77.73	77.73
			484+242T	91	82.31	82.67	77.82	77.88
				93	63.04	63.43	58.47	58.53
				92	82.57	82.34	77.80	77.86
	5690 (Straddle)	138	SU	—	81.50	82.44	77.60	77.57
			484+242T	91	82.31	82.17	77.84	77.92
				93	63.50	63.55	58.59	58.54
				92	82.65	81.94	77.83	77.84
EHT160	5570	114	SU	—	163.30	163.60	155.68	155.67
			996+484T	95	170.72	169.55	157.28	157.09
				S95	125.15	125.33	117.25	117.17
				S94	169.60	170.89	157.42	157.04

9.2.8. 802.11be MIMO CDD MODE IN THE UNII-2C BAND

UNII-2C (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
					ANT6	ANT16	Min BW	ANT6	ANT16	Min BW
EHT20	5500	100	SU	—	23.52	22.68	22.68	19.20	19.18	19.18
				37	21.17	20.77	20.77	18.38	18.24	18.24
			52T	38	19.05	18.40	18.40	17.00	16.82	16.82
				40	20.95	20.44	20.44	18.20	18.20	18.20
	5580	116	SU	—	22.72	22.41	22.41	19.17	19.16	19.16
				37	21.63	20.50	20.50	18.41	18.23	18.23
			52T	38	18.96	18.38	18.38	16.96	16.82	16.82
				40	20.85	20.48	20.48	18.27	18.23	18.23
	5700	140	SU	—	23.40	23.36	23.36	19.16	19.18	19.16
				37	21.03	20.50	20.50	18.36	18.20	18.20
			52T	38	18.92	18.21	18.21	16.95	16.81	16.81
				40	20.85	20.21	20.21	18.18	18.23	18.18
	5720 (Straddle)	144	SU	—	23.02	22.41	22.41	19.03	19.18	19.03
				37	21.04	20.65	20.65	18.36	18.16	18.16
			52T	38	18.96	18.33	18.33	16.95	16.84	16.84
				40	20.84	20.19	20.19	18.29	18.19	18.19
EHT40	5510	102	SU	—	41.45	40.76	40.76	37.60	37.64	37.60
	5550	110	SU	—	44.36	42.62	42.62	37.94	37.96	37.94
	5670	134	SU	—	42.86	42.49	42.49	37.96	38.00	37.96
	5710 (Straddle)	142	SU	—	42.70	43.20	42.70	37.86	37.96	37.86
EHT80	5530	106	SU	—	81.49	81.45	81.45	76.98	76.79	76.79
				91	82.39	82.63	82.39	77.89	77.83	77.83
			484+242T	93	63.51	63.37	63.37	58.60	58.57	58.57
				92	82.85	82.54	82.54	77.88	77.83	77.83
	5610	122	SU	—	81.75	81.92	81.75	77.53	77.74	77.53
				91	82.73	82.16	82.16	77.91	77.86	77.86
			484+242T	93	62.88	63.06	62.88	58.59	58.62	58.59
				92	82.27	82.32	82.27	77.89	77.83	77.83
	5690 (Straddle)	138	SU	—	82.80	82.13	82.13	77.55	77.69	77.55
				91	82.45	82.23	82.23	77.88	77.89	77.88
			484+242T	93	63.43	63.04	63.04	58.71	58.54	58.54
				92	82.51	82.42	82.42	77.84	77.95	77.84
EHT160	5570	114	SU	—	163.70	162.90	162.90	155.65	155.81	155.65
				95	169.70	170.08	169.70	157.35	157.18	157.18
			996+484T	S95	125.09	124.27	124.27	117.28	117.14	117.14
				S94	170.81	170.98	170.81	157.17	157.12	157.12

9.2.9. 802.11be SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT16	ANT6	ANT16
EHT20	5745	149	SU	—	23.24	23.39	19.17	19.18
			26T	0	20.48	20.64	18.54	18.58
				4	18.29	18.21	16.89	16.95
				8	20.52	20.40	18.55	18.55
	5785	157	SU	—	23.38	23.39	19.22	19.17
			26T	0	20.47	20.61	18.67	18.62
				4	18.18	18.31	16.91	16.92
				8	20.48	20.46	18.52	18.51
	5825	165	SU	—	23.39	23.03	19.17	19.12
			26T	0	20.43	20.48	18.59	18.64
				4	18.20	18.20	16.87	16.90
				8	20.60	20.60	18.63	18.53
EHT40	5755	151	SU	—	44.09	43.27	38.23	38.06
	5795	159	SU	—	44.93	45.03	38.12	38.08
EHT80	5775	155	SU	—	82.14	81.88	77.72	77.63
			484+242T	91	81.38	81.44	77.40	77.29
				93	62.87	62.66	58.40	58.36
				92	82.34	81.71	77.90	77.48

9.2.10. 802.11be MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT16	ANT6	ANT16
EHT20	5745	149	SU	—	22.81	22.67	19.17	19.10
			26T	0	20.81	20.21	18.63	18.46
				4	18.28	18.11	16.81	16.64
				8	20.33	20.62	18.57	18.45
	5785	157	SU	—	23.17	23.10	19.19	19.10
			26T	0	20.79	20.43	18.57	18.40
				4	18.33	18.18	16.93	16.82
				8	20.41	20.28	18.56	18.45
	5825	165	SU	—	23.46	22.77	19.13	19.12
			26T	0	20.09	20.46	18.59	18.48
				4	18.19	18.16	16.95	16.77
				8	20.50	20.29	18.47	18.36
EHT40	5755	151	SU	—	44.70	44.18	38.17	38.10
	5795	159	SU	—	44.85	45.05	38.18	38.15
EHT80	5775	155	SU	—	82.13	81.96	77.53	77.59
			484+242T	91	82.19	81.51	77.40	77.27
				93	63.42	62.81	58.63	58.37
				92	81.45	81.09	77.35	77.47

9.3. BANDWIDTH VERIFICATION OF CHANNEL PUNCTURING IN THE DFS BANDS

LIMITS

When a 20 MHz portion is punctured the remaining emissions do not bleed into the notched channel, i.e., 26 dB or 99% bandwidth is contained outside of the notched band.

RESULTS

ID:	106046/28161	Date:	2026-05-08
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9.3.1. 802.11be EHT80 SISO MODE

EHT80	SISO	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB? Yes = Pass No = Fail		
						26dB	99% BW		99% BW (MHz)	
UNII-2A	ANT6	5290	58	484+242	1	60.5	58.183	Yes		
					2	80.35	77.495	Yes	19.226	37.945
					4	80.7	77.716	Yes	37.928	19.268
					8	60.53	58.097	Yes		
UNII-2C		5530	106	484+242	1	60.58	57.827	Yes		
					2	80.59	77.64	Yes	19.218	38.142
					4	81.4	77.647	Yes	38	19.218
					8	61.37	58.202	Yes		
		5610	122		1	61.04	58.304	Yes		
					2	80.09	77.454	Yes	19.492	38.03
					4	79.87	77.664	Yes	38.136	19.283
					8	61.05	58.06	Yes		
		5690 (Straddle)	138		1	60.65	58.521	Yes		
					2	80.28	77.794	Yes	19.168	38.268
					4	80.16	77.62	Yes	38.056	19.248
					8	60.81	58.179	Yes		
UNII-2A	ANT16	5290	58	484+242	1	61.32	58.803	Yes		
					2	79.65	78.076	Yes	19.374	37.933
					4	80.66	77.814	Yes	38.054	19.24
					8	60.89	58.215	Yes		
UNII-2C		5530	106	484+242	1	61.04	58.217	Yes		
					2	80.04	77.797	Yes	19.278	38.063
					4	79.77	77.68	Yes	38.134	19.228
					8	60.59	58.591	Yes		
		5610	122		1	61.53	58.638	Yes		
					2	80.45	77.608	Yes	19.134	37.705
					4	80.19	77.017	Yes	38.026	19.204
					8	60.92	58.087	Yes		
		5690 (Straddle)	138		1	60.87	57.876	Yes		
					2	79.73	77.622	Yes	19.228	38.157
					4	79.99	77.739	Yes	38.092	19.449
					8	60.62	58.455	Yes		

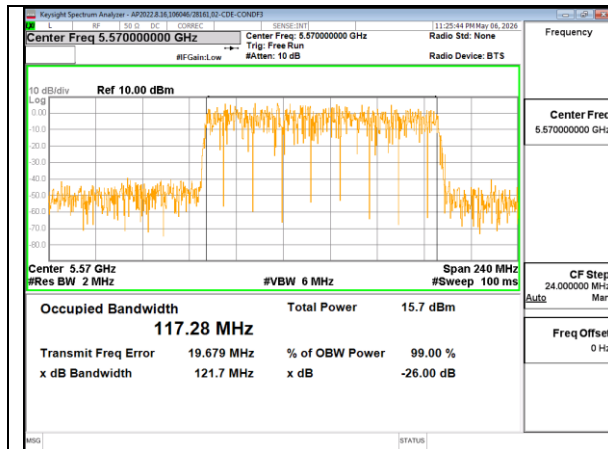


9.3.2. 802.11be EHT80 MIMO CDD MODE

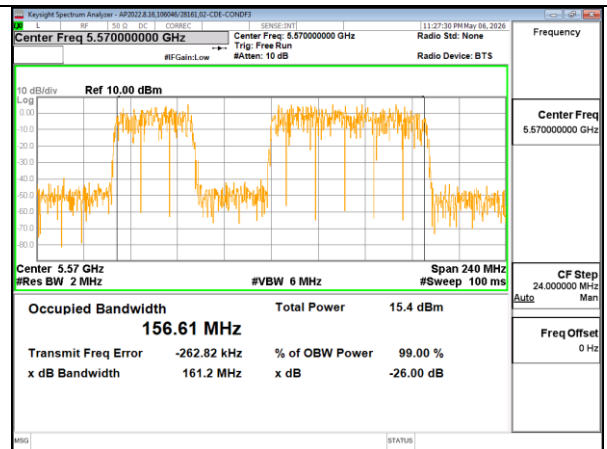
EHT80	MIMO (CDD)	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB? Yes = Pass No = Fail		
						26dB	99% BW		99% BW (MHz)	
UNII-2A	ANT6	5290	58	484+242	1	60.74	58.615	Yes		
					2	80.48	77.858	Yes	19.46	38.185
					4	80	77.722	Yes	38.116	19.252
					8	60.81	58.142	Yes		
UNII-2C		5530	106	484+242	1	60.49	58.23	Yes		
					2	80.31	77.381	Yes	19.335	38.16
					4	80.71	77.492	Yes	37.763	19.278
					8	60.42	58.257	Yes		
		5610	122		1	60.82	58.549	Yes		
					2	80.49	77.625	Yes	19.198	38.153
					4	80.04	77.712	Yes	37.952	19.17
					8	60.76	58.415	Yes		
		5690 (Straddle)	138		1	60.63	58.426	Yes		
					2	80.1	77.842	Yes	19.336	38.094
					4	80.03	77.712	Yes	38.308	19.36
					8	60.64	58.515	Yes		
UNII-2A	ANT16	5290	58	484+242	1	60.87	58.092	Yes		
					2	80.69	77.76	Yes	19.203	38.017
					4	80.23	77.599	Yes	38.191	19.283
					8	60.56	58.456	Yes		
UNII-2C		5530	106	484+242	1	60.49	58.616	Yes		
					2	80.13	77.247	Yes	19.144	37.85
					4	80.49	77.565	Yes	37.949	19.272
					8	60.35	58.769	Yes		
		5610	122		1	60.81	58.23	Yes		
					2	80.87	77.339	Yes	19.265	37.966
					4	80.16	77.515	Yes	38.002	19.289
					8	60.8	58.55	Yes		
		5690 (Straddle)	138		1	60.79	58.419	Yes		
					2	80.1	77.583	Yes	19.154	38.184
					4	80.78	77.678	Yes	38.004	19.31
					8	60.68	58.542	Yes		

9.3.3. 802.11be EHT160 SISO MODE

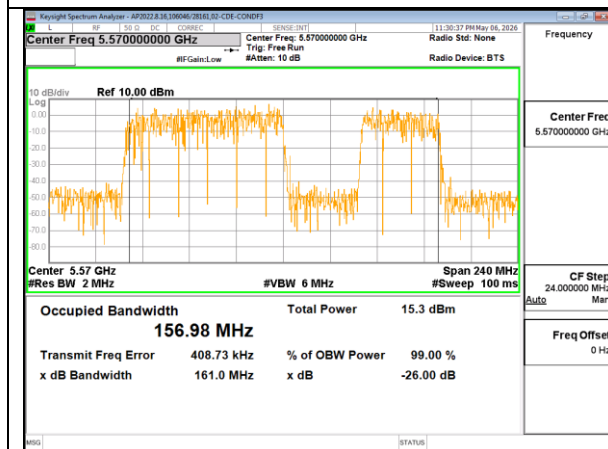
EHT160	SISO	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left	Right
						Bandwidth (MHz)		Chan Punc >26dB?	Bandwidth	Bandwidth
						26dB	99% BW	Yes = Pass No = Fail	99% BW (MHz)	
UNII-2A	ANT6	5250 (Straddle)	50	996+484	3	121.9	116.79	Yes		
					12	161.2	155.76	Yes	39.103	78.397
					48	161.6	157.16	Yes	78.25	38.958
					192	121.5	116.77	Yes		
				996+484+242	1	142.1	136.36	Yes		
					2	161.6	157.08	Yes	20.338	117.89
					4	161.9	156.26	Yes	38.6	98.169
					8	161.7	156.65	Yes	59.187	77.802
					16	161	156.91	Yes	78.127	58.954
					32	160.6	155.9	Yes	99.087	38.839
					64	161.7	156.48	Yes	117.32	20.242
					128	142.2	136.47	Yes		
UNII-2C	5570	114	996+484	3	121.7	117.28	Yes			
				12	161.2	156.61	Yes	38.973	77.704	
				48	161	156.98	Yes	77.356	38.948	
				192	121.6	116.44	Yes			
			996+484+242	1	142.5	136.77	Yes			
				2	161.4	157.71	Yes	20.322	116.92	
				4	161.9	156.66	Yes	38.726	98.544	
				8	161.3	156.42	Yes	58.571	77.59	
				16	161.8	155.98	Yes	77.773	58.706	
				32	161.6	156.11	Yes	98.249	38.969	
				64	161.1	157.38	Yes	117.89	20.296	
				128	141.5	137.18	Yes			
UNII-2A	ANT16	5250 (Straddle)	50	996+484	3	121.6	116.38	Yes		
					12	161.5	157.53	Yes	39.082	77.952
					48	161.8	157.18	Yes	77.839	38.898
					192	121.8	117.38	Yes		
				996+484+242	1	141.6	136.32	Yes		
					2	161.5	157.33	Yes	20.179	117.87
					4	161.2	156.42	Yes	39.118	98.245
					8	161.6	156.37	Yes	59.15	77.993
					16	160.8	156.14	Yes	77.904	59.241
					32	162.2	155.89	Yes	98.233	38.331
					64	168.6	157.25	Yes	116.57	20.072
					128	142.2	137.28	Yes		
UNII-2C	5570	114	996+484	3	121.8	117.12	Yes			
				12	161.8	156.81	Yes	38.742	77.995	
				48	161.5	156.57	Yes	77.593	39.12	
				192	121.8	117.63	Yes			
			996+484+242	1	142.1	137	Yes			
				2	161.3	156.19	Yes	20.249	116.43	
				4	169.2	156.48	Yes	39.203	98.101	
				8	161.4	156.66	Yes	58.905	77.743	
				16	161.4	156.44	Yes	77.677	59.36	
				32	161.9	155.95	Yes	97.964	38.739	
				64	161.4	157.21	Yes	117.63	20.572	
				128	142.2	136.95	Yes			



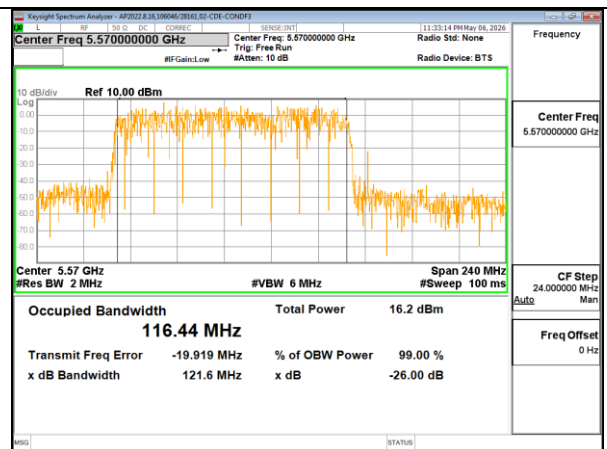
160MHz – 996+484T – Mid Channel –
Puncture Pattern 3 – (UNII-2C) – ANT6



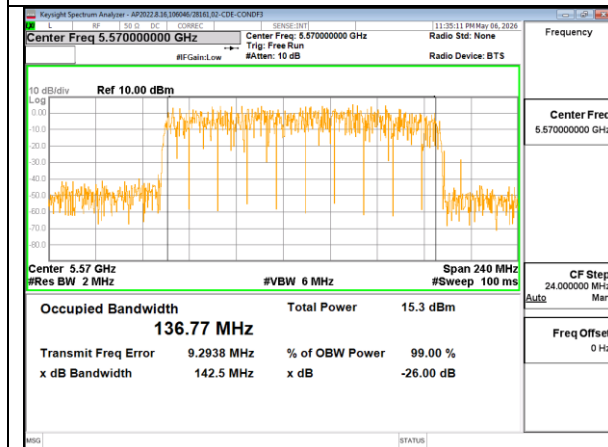
160MHz – 996+484T – Mid Channel –
Puncture Pattern 12 – (UNII-2C) – ANT6



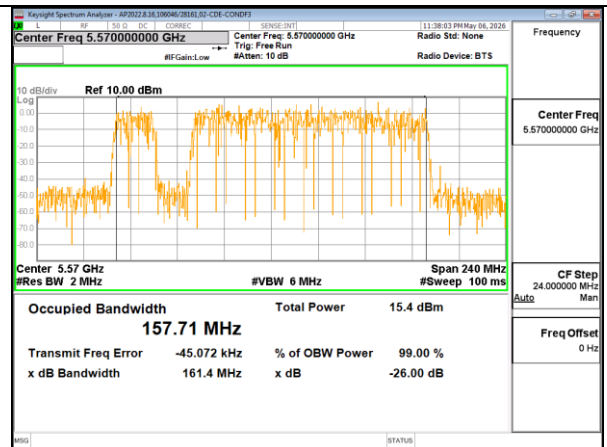
160MHz – 996+484T – Mid Channel –
Puncture Pattern 48 – (UNII-2C) – ANT6



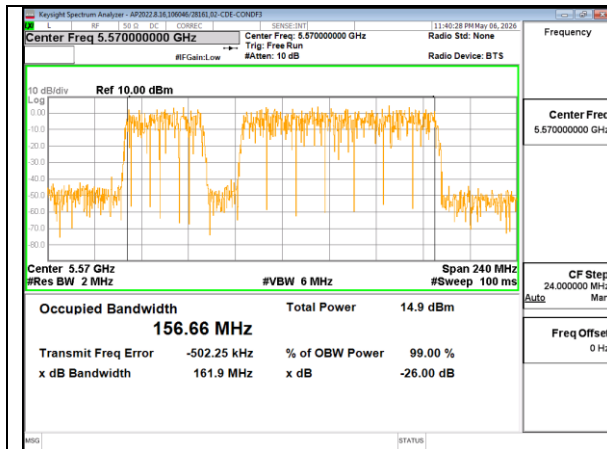
160MHz – 996+484T – Mid Channel –
Puncture Pattern 192 – (UNII-2C) – ANT6



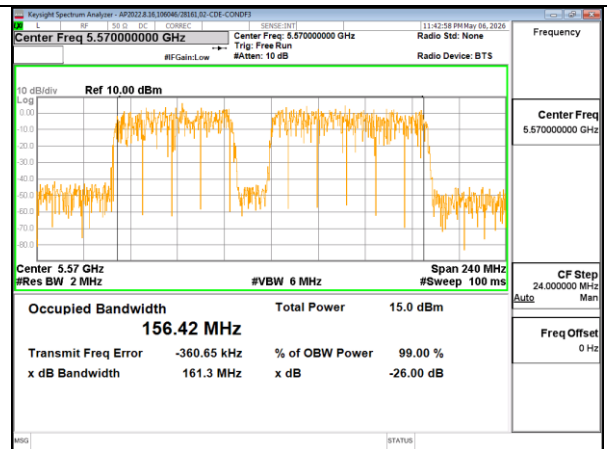
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 1 – (UNII-2C) – ANT6



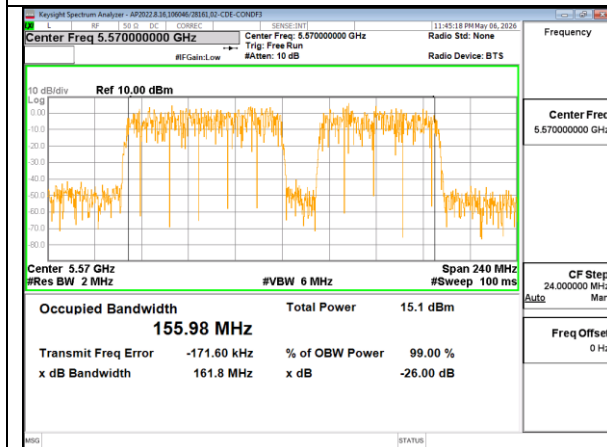
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 2 – (UNII-2C) – ANT6



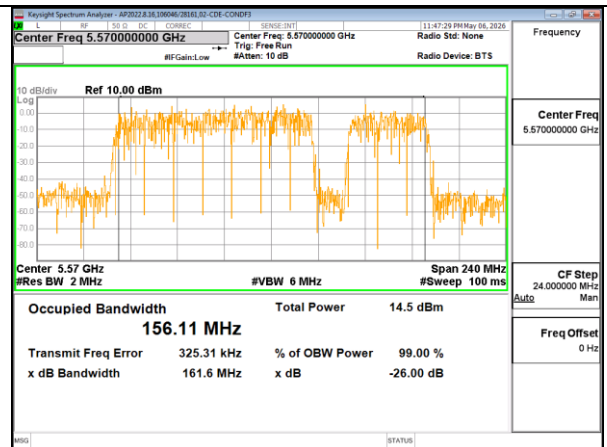
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 4 – (UNII-2C) – ANT6



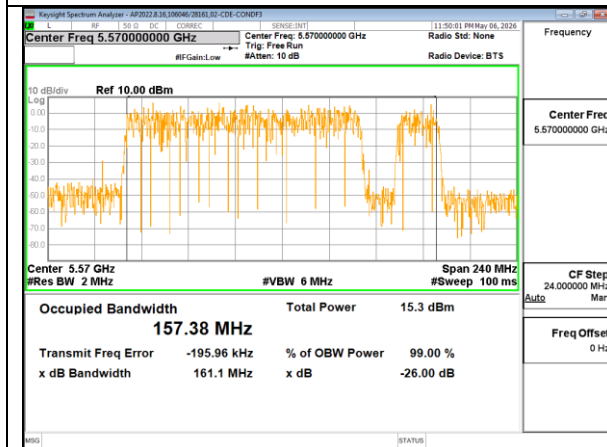
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 8 – (UNII-2C) – ANT6



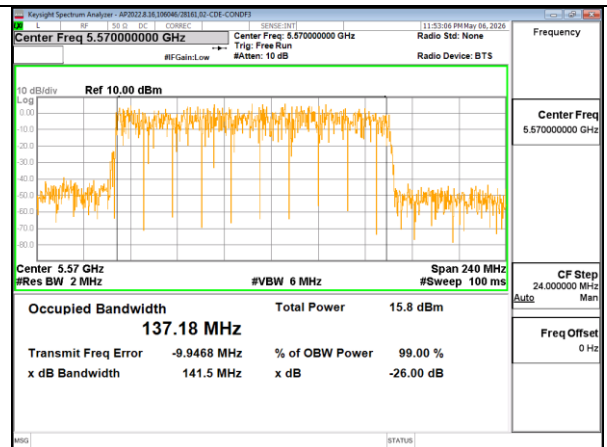
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 16 – (UNII-2C) – ANT6



160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 32 – (UNII-2C) – ANT6



160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 64 – (UNII-2C) – ANT6



160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 128 – (UNII-2C) – ANT6

9.3.4. 802.11be EHT160 MIMO CDD MODE

EHT160	MIMO (CDD)	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left	Right
						Bandwidth (MHz)		Chan Punc >26dB?	Bandwidth	Bandwidth
						26dB	99% BW	Yes = Pass No = Fail	99% BW (MHz)	
UNII-2A	ANT6	5250 (Straddle)	50	996+484	3	120.7	117.05	Yes		
					12	161.5	156.49	Yes	38.801	78.004
					48	162.4	157.47	Yes	77.994	39.114
					192	122.3	116.46	Yes		
				996+484+242	1	142.5	136.83	Yes		
					2	162	157	Yes	20.211	116.86
					4	161.9	156.71	Yes	38.724	98.203
					8	161.2	156.51	Yes	59.344	78.06
					16	161.8	157.63	Yes	77.854	58.89
					32	160.5	156.62	Yes	98.378	38.969
					64	161.2	156.43	Yes	117.17	20.193
					128	143.4	137.83	Yes		
UNII-2C	5570	114	996+484	3	121.7	116.54	Yes			
				12	161.5	156.71	Yes	38.825	77.848	
				48	161.5	156.15	Yes	77.834	38.89	
				192	121.7	116.36	Yes			
			996+484+242	1	142.5	137.23	Yes			
				2	160.7	156.05	Yes	20.271	117.53	
				4	161.8	156.36	Yes	39.088	98.066	
				8	161.6	155.36	Yes	59.276	77.343	
				16	161.2	156.81	Yes	78	58.552	
				32	160.8	156.85	Yes	97.914	38.668	
				64	161.7	155.59	Yes	116.98	20.31	
				128	142.4	137.51	Yes			
UNII-2A	ANT16	5250 (Straddle)	50	996+484	3	121.7	117.47	Yes		
					12	161.5	156.87	Yes	38.83	77.513
					48	161.6	157.23	Yes	78.227	38.718
					192	121.9	116.62	Yes		
				996+484+242	1	141.7	137.46	Yes		
					2	161.6	156.43	Yes	20.284	117.85
					4	161.8	156.49	Yes	38.901	98.045
					8	161.6	156.35	Yes	58.786	78.295
					16	170.1	156.74	Yes	77.839	58.764
					32	163.4	156.99	Yes	98.483	38.81
					64	161.6	156.05	Yes	118.29	20.258
					128	141.8	136.73	Yes		
UNII-2C	5570	114	996+484	3	121.6	116.71	Yes			
				12	161.6	156.16	Yes	38.815	77.761	
				48	162.4	156.32	Yes	77.851	39.033	
				192	121.2	116.65	Yes			
			996+484+242	1	143.3	136.76	Yes			
				2	161.4	156.51	Yes	20.144	116.79	
				4	161.1	157.1	Yes	38.947	98.381	
				8	161.4	156.58	Yes	58.663	77.998	
				16	161.6	155.2	Yes	77.706	59.413	
				32	162	155.79	Yes	97.928	38.815	
				64	161.4	155.48	Yes	117.77	20.188	
				128	142.2	137.55	Yes			

9.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 7.3.4.2

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

RESULTS

For 6dB bandwidth measurements, the 802.11be EHT20 was tested at 26T as a worst-case scenario. For straddle channels, 52T was tested as the worst case as 26T is not supported.

9.4.1. 802.11n/ac SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	Frequency (MHz)	Channel Number	6 dB BW (MHz)	
			ANT6	ANT16
HT20	5720 (Straddle)	144	3.78	3.83
	5745	149	17.68	17.88
	5785	157	17.76	17.68
	5825	165	17.84	17.76
HT40	5710 (Straddle)	142	3.28	3.30
	5755	151	36.64	36.48
	5795	159	36.64	36.56
VHT80	5690 (Straddle)	138	3.29	3.29
	5775	155	76.80	76.64

9.4.2. 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	6 dB BW (MHz)	
			ANT6	ANT16
HT20	5720 (Straddle)	144	3.82	3.86
	5745	149	17.72	17.76
	5785	157	17.80	17.68
	5825	165	17.64	17.64
HT40	5710 (Straddle)	142	3.17	3.26
	5755	151	36.72	36.48
	5795	159	36.56	36.48
VHT80	5690 (Straddle)	138	3.27	3.29
	5775	155	76.64	76.64

9.4.3. 802.11be SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	6 dB BW (MHz)	
					ANT6	ANT16
EHT20	5720 (Straddle)	144	SU	—	4.45	4.56
			52T	40	4.43	4.44
	5745	149	SU	—	18.96	19.08
			26T	0	2.08	2.08
				4	2.60	2.68
				8	2.04	2.04
	5785	157	SU	—	19.16	19.16
			26T	0	2.04	2.04
				4	2.72	2.64
				8	2.08	2.12
	5825	165	SU	—	19.16	19.08
			26T	0	2.08	2.20
				4	2.60	2.60
				8	2.08	2.04
EHT40	5710 (Straddle)	142	SU	—	4.09	4.09
	5755	151	SU	—	38.16	38.16
	5795	159	SU	—	38.08	38.32
EHT80	5690 (Straddle)	138	SU	—	4.09	4.09
	5775	155	SU	—	78.40	78.40

9.4.4. 802.11be MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	6 dB BW (MHz)	
					ANT6	ANT16
EHT20	5720 (Straddle)	144	SU	—	4.56	4.54
			52T	40	4.43	4.45
	5745	149	SU	—	18.76	19.12
			26T	0	2.08	2.04
				4	2.60	2.68
				8	2.04	2.04
	5785	157	SU	—	19.12	19.08
			26T	0	2.04	2.12
				4	2.56	2.64
				8	2.08	2.08
	5825	165	SU	—	19.16	19.04
			26T	0	2.12	2.04
				4	2.56	2.60
				8	2.12	2.04
EHT40	5710 (Straddle)	142	SU	—	4.09	4.10
	5755	151	SU	—	38.32	38.32
	5795	159	SU	—	38.32	38.32
EHT80	5690 (Straddle)	138	SU	—	4.07	4.09
	5775	155	SU	—	78.40	78.40

WORST MINIMUM PLOT

9.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

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

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

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

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is ANSI C63.10 Subclause -12.4.3.2 (Method PM-G).

The measurement method used for power spectral density is KDB 789033 D02, Section F. For all straddle channels, full bandwidth power and PSD/MHz are reported in the 5.6GHz section because the combined 5.6GHz and 5.8GHz power and PSD/MHz already passed the worst-case 5.6GHz power and 5.8 GHz PSD/500kHz limits.

11n HT20 and 11be EHT20 straddle channel 26dB bandwidth= (26dB BW/2)+5
11n HT20 and 11be EHT20 straddle channel 99% bandwidth= (99% BW/2)+5

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-3.70	3.00	0.60	2.80
5250 - 5350 UNII - 2A	-3.50	4.20	1.70	3.90
5500 - 5700 UNII - 2C	-0.90	4.00	1.90	4.50
5725 - 5825 UNII 3	-1.40	3.40	1.20	3.80

OUTPUT POWER CALCULATION:**1Tx**

Total corr'd power = Ant 6

Sample Calculation at 5.2GHz Band (Low Channel SU):

ANT 6 Power = 18.89 dBm (Gated Power)

Total corr'd power = 18.89 dBm

2Tx

Total corr'd power = $10 \cdot \log(10^{(\text{Ant 6}/10)} + 10^{(\text{ANT 16}/10)})$

Sample Calculation at 5.2GHz Band CDD (Low Channel SU):

Ant 6 Power = 17.29 dBm, ANT 16 Power = 17.22 dBm

Total corr'd power = $10 \cdot \log(10^{(17.29/10)} + 10^{(17.22/10)}) = 20.27 \text{ dBm}$

PSD CALCULATION:**1Tx**

Total corr'd PSD = DCCF + Ant 6

Sample Calculation at 5.2GHz Band (Low Channel SU):

Ant 6 PSD = 7.454 dBm/MHz

Total corr'd PSD = 0 + 7.454 = 7.454 dBm/MHz

2Tx

Total corr'd PSD = $(10 \cdot \log(10^{((\text{DCCF} + \text{Ant 6})/10)} + 10^{((\text{DCCF} + \text{ANT 16})/10)}))$

Sample Calculation at 5.2GHz Band CDD (Low Channel SU):

Ant6 PSD = 5.976 dBm/MHz, ANT16 PSD = 5.877 dBm/MHz

Total corr'd PSD = $(10 \cdot \log(10^{((0 + (5.976))/10)} + 10^{((0 + (5.877))/10)}))$
= 8.942 dBm/MHz

RESULTS**9.5.1. 802.11n/ac SISO MODE IN THE UNII-1 BAND**

UNII-1 (SISO)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
ANT6 (dBi)	-3.70			
ANT16 (dBi)	3.00			

UNII-2A (SISO)	
Straddle Channel	
ANT6 (dBi)	-3.50
ANT16 (dBi)	4.20

UNII-1 (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20 (FCC)	5180	36	--		24.00	24.00	19.30	19.37	19.30	19.37	11.00	11.00	8.230	8.293	8.230	8.293
	5200	40			24.00	24.00	19.89	19.93	19.89	19.93	11.00	11.00	8.606	8.632	8.606	8.632
	5240	48			24.00	24.00	19.86	19.84	19.86	19.84	11.00	11.00	8.525	8.489	8.525	8.489
HT40 (FCC)	5190	38	--		24.00	24.00	16.77	15.77	16.77	15.77	11.00	11.00	2.540	1.652	2.540	1.652
	5230	46			24.00	24.00	19.80	19.76	19.80	19.76	11.00	11.00	5.650	5.615	5.650	5.615
VHT80 (FCC)	5210	42	--		24.00	24.00	17.90	17.67	17.90	17.67	11.00	11.00	1.216	1.019	1.216	1.019
VHT160 (FCC)	5250 (Straddle)	50	--		24.00	24.00	15.42	14.84	15.42	14.84	11.00	11.00	-4.334	-4.690	-4.334	-4.690

9.5.2. 802.11n/ac MIMO CDD MODE IN THE UNII-1 BAND

UNII-1 (MIMO CDD)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
Un- Correlated Gain (dBi)	0.60			
Correlated Gain (dBi)	2.80			

UNII-2A (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	1.70
Correlated Gain (dBi)	3.90

UNII-1 (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT16			ANT6	ANT16	
HT20 (FCC)	5180	36	--	24.00	17.53	17.44	20.50	11.00	6.239	6.116	9.188
	5200	40		24.00	18.13	18.18	21.17	11.00	6.685	6.727	9.716
	5240	48		24.00	18.04	18.12	21.09	11.00	6.514	6.676	9.606
HT40 (FCC)	5190	38	--	24.00	15.93	15.86	18.91	11.00	1.928	1.922	4.935
	5230	46		24.00	19.89	19.83	22.87	11.00	5.965	5.826	8.906
VHT80 (FCC)	5210	42	--	24.00	16.32	16.44	19.39	11.00	-0.564	-0.542	2.457
VHT160 (FCC)	5250 (Straddle)	50	--	24.00	13.80	13.92	16.87	11.00	-8.362	-7.899	-5.114

9.5.3. 802.11be SISO MODE IN THE UNII-1 BAND

UNII-1 (SISO)	20MHz		40MHz	80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
ANT6 (dBi)	-3.70						
ANT16 (dBi)	3.00						

UNII-2A (SISO)	
Straddle Channel	
ANT6 (dBi)	-3.50
ANT16 (dBi)	4.20

UNII-1 (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
EHT20 (FCC)	5180	36	SU	—	—	—	24.00	24.00	18.89	18.57	18.89	18.57	11.00	11.00	7.454	7.127	7.454	7.127
			52T	37			24.00	24.00	14.75	14.39	14.75	14.39	11.00	11.00	9.633	9.298	9.633	9.298
			52T	38			24.00	24.00	14.64	14.32	14.64	14.32	11.00	11.00	9.631	9.243	9.631	9.243
			52T	40			24.00	24.00	14.56	14.43	14.56	14.43	11.00	11.00	9.628	9.372	9.628	9.372
	5200	40	SU	—			24.00	24.00	19.86	19.91	19.86	19.91	11.00	11.00	8.380	8.461	8.380	8.461
			52T	37			24.00	24.00	14.99	14.86	14.99	14.86	11.00	11.00	10.047	9.818	10.047	9.818
			52T	38			24.00	24.00	14.88	14.80	14.88	14.80	11.00	11.00	9.927	9.789	9.927	9.789
			52T	40			24.00	24.00	15.03	14.92	15.03	14.92	11.00	11.00	10.065	9.954	10.065	9.954
	5240	48	SU	—			24.00	24.00	19.83	19.89	19.83	19.89	11.00	11.00	8.315	8.399	8.315	8.399
			52T	37			24.00	24.00	14.96	14.82	14.96	14.82	11.00	11.00	10.044	9.809	10.044	9.809
			52T	38			24.00	24.00	14.93	14.78	14.93	14.78	11.00	11.00	9.976	9.719	9.976	9.719
			52T	40			24.00	24.00	14.89	14.89	14.89	14.89	11.00	11.00	9.974	9.923	9.974	9.923
EHT40 (FCC)	5190	38	SU	—	—	—	24.00	24.00	16.69	15.58	16.69	15.58	11.00	11.00	2.465	1.166	2.465	1.166
	5230	46	SU	—			24.00	24.00	19.80	19.77	19.80	19.77	11.00	11.00	5.519	5.370	5.519	5.370
EHT80 (FCC)	5210	42	SU	—	—	—	24.00	24.00	17.02	16.39	17.02	16.39	11.00	11.00	0.141	-0.439	0.141	-0.439
			484+242T	91			24.00	24.00	16.04	15.94	16.04	15.94	11.00	11.00	0.348	0.285	0.348	0.285
			484+242T	93			24.00	24.00	16.01	15.89	16.01	15.89	11.00	11.00	0.495	0.070	0.495	0.070
			484+242T	92			24.00	24.00	16.11	15.78	16.11	15.78	11.00	11.00	0.325	0.223	0.325	0.223
EHT160 (FCC)	5250 (Straddle)	50	SU	—	—	—	24.00	24.00	15.44	14.86	15.44	14.86	11.00	11.00	-4.609	-4.717	-4.609	-4.717
			996+484T	95			24.00	24.00	14.31	13.61	14.31	13.61	11.00	11.00	-4.723	-5.211	-4.723	-5.211
			996+484T	S95			24.00	24.00	14.27	13.56	14.27	13.56	11.00	11.00	-4.798	-5.369	-4.798	-5.369
			996+484T	S94			24.00	24.00	14.25	13.59	14.25	13.59	11.00	11.00	-4.803	-5.331	-4.803	-5.331

9.5.4. 802.11be MIMO CDD MODE IN THE UNII-1 BAND

UNII-1 (MIMO CDD)	20MHz		40MHz		80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T	
DCCF (MCS0) (dB)	0	0	0	0	0	0	0	
Un- Correlated Gain (dBi)	0.60							
Correlated Gain (dBi)	2.80							

UNII-2A (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	1.70
Correlated Gain (dBi)	3.90

UNII-1 (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT16			ANT6	ANT16	
EHT20 (FCC)	5180	36	SU	—	—	24.00	17.29	17.22	20.27	11.00	5.976	5.877	8.937
			52T	37		24.00	11.37	11.32	14.36	11.00	6.067	6.037	9.062
				38		24.00	11.27	11.30	14.30	11.00	5.989	6.004	9.007
				40		24.00	11.43	11.39	14.42	11.00	6.103	6.088	9.106
	5200	40	SU	—		24.00	18.24	18.29	21.28	11.00	6.920	6.993	9.967
			52T	37		24.00	11.84	11.87	14.87	11.00	6.599	6.647	9.633
				38		24.00	11.81	11.76	14.80	11.00	6.515	6.434	9.485
				40		24.00	11.86	11.82	14.85	11.00	6.619	6.527	9.584
	5240	48	SU	—		24.00	18.13	18.22	21.19	11.00	6.720	6.759	9.750
			52T	37		24.00	11.84	11.80	14.83	11.00	6.599	6.513	9.567
				38		24.00	11.78	11.79	14.80	11.00	6.474	6.499	9.497
				40		24.00	11.83	11.77	14.81	11.00	6.547	6.463	9.516
EHT40 (FCC)	5190	38	SU	—	—	24.00	15.45	15.27	18.37	11.00	1.538	1.450	4.505
	5230	46		—		24.00	19.91	19.85	22.89	11.00	6.059	5.542	8.818
EHT80 (FCC)	5210	42	SU	—	—	24.00	15.96	15.82	18.90	11.00	-1.158	-1.353	1.756
			484+242T	91		24.00	14.90	14.92	17.92	11.00	-1.175	-0.831	2.011
				93		24.00	14.79	14.82	17.82	11.00	-1.183	-1.358	1.741
				92		24.00	14.86	14.77	17.83	11.00	-1.320	-1.223	1.739
EHT160 (FCC)	5250 (Straddle)	50	SU	—	—	24.00	13.90	13.84	16.88	11.00	-5.837	-6.055	-2.934
			996+484T	95		24.00	12.50	12.62	15.57	11.00	-6.812	-6.514	-3.650
				S95		24.00	12.53	12.47	15.51	11.00	-6.643	-6.766	-3.694
				S94		24.00	12.58	12.56	15.58	11.00	-6.798	-6.821	-3.799

Worst-Case PSD Plot:

9.5.5. 802.11n/ac SISO MODE IN THE UNII-2A BAND

UNII-2A (SISO)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
ANT6 (dBi)	-3.50			
ANT16 (dBi)	4.20			

UNII-1 (SISO)	
Straddle Channel	
ANT6 (dBi)	-3.70
ANT16 (dBi)	3.00

UNII-2A (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20 (FCC)	5260	52	22.72	21.82	24.00	24.00	19.89	19.86	19.89	19.86	11.00	11.00	7.965	7.952	7.965	7.952
	5300	60	23.00	22.47	24.00	24.00	19.93	19.82	19.93	19.82	11.00	11.00	8.076	7.923	8.076	7.923
	5320	64	21.23	20.80	24.00	24.00	19.42	19.63	19.42	19.63	11.00	11.00	7.425	7.504	7.425	7.504
HT40 (FCC)	5270	54	43.92	43.17	24.00	24.00	19.77	19.80	19.77	19.80	11.00	11.00	4.911	4.939	4.911	4.939
	5310	62	41.67	41.47	24.00	24.00	17.39	16.86	17.39	16.86	11.00	11.00	2.587	2.003	2.587	2.003
VHT80 (FCC)	5290	58	80.90	79.86	24.00	24.00	18.97	17.91	18.97	17.91	11.00	11.00	0.775	-0.141	0.775	-0.141
VHT160 (Straddle) (FCC)	5250	50	162.50	163.10	24.00	24.00	15.42	14.84	15.42	14.84	11.00	11.00	-4.334	-4.690	-4.334	-4.690

9.5.6. 802.11n/ac MIMO CDD MODE IN THE UNII-2A BAND

UNII-2A (MIMO CDD)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
Un- Correlated Gain (dBi)	1.70			
Correlated Gain (dBi)	3.90			

UNII-1 (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	0.60
Correlated Gain (dBi)	2.80

UNII-2A (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT16			ANT6	ANT16	
HT20 (FCC)	5260	52	21.73	24.00	18.13	17.97	21.06	11.00	6.198	6.109	9.164
	5300	60	21.18	24.00	18.16	18.24	21.21	11.00	6.216	6.299	9.268
	5320	64	20.43	24.00	17.34	17.46	20.41	11.00	5.560	5.562	8.571
HT40 (FCC)	5270	54	42.05	24.00	19.79	19.90	22.86	11.00	5.057	5.200	8.139
	5310	62	40.70	24.00	15.42	15.31	18.38	11.00	0.493	0.437	3.475
VHT80 (FCC)	5290	58	79.76	24.00	16.89	16.79	19.85	11.00	-1.027	-1.126	1.934
VHT160 Straddle) (FCC)	5250	50	162.50	24.00	13.80	13.92	16.87	11.00	-8.362	-7.899	-5.114

9.5.7. 802.11be SISO MODE IN THE UNII-2A BAND

UNII-2A (SISO)	20MHz		40MHz	80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
ANT6 (dBi)	-3.50						
ANT16 (dBi)	4.20						

UNII-1 (SISO)	
Straddle Channel	
ANT6 (dBi)	-3.70
ANT16 (dBi)	3.00

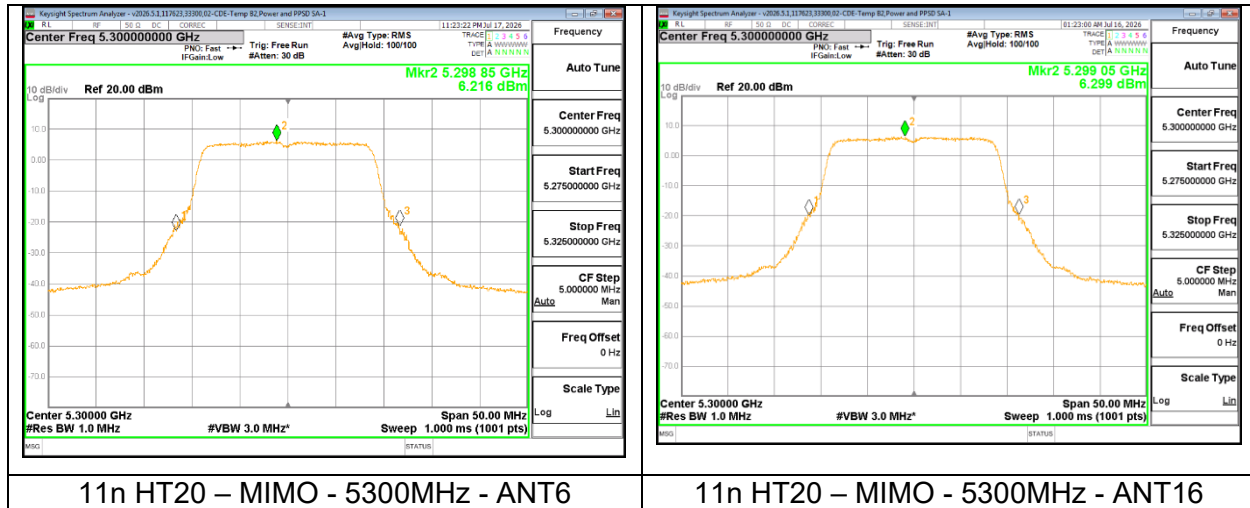
UNII-2A (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
EHT20 (FCC)	5260	52	SU	—	22.23	22.00	24.00	24.00	19.92	19.82	19.92	19.82	11.00	11.00	7.761	7.616	7.761	7.616
				37	21.33	21.35	24.00	24.00	14.77	14.74	14.77	14.74	11.00	11.00	9.085	8.948	9.085	8.948
			52T	38	18.87	18.91	23.76	23.77	14.75	14.68	14.75	14.68	11.00	11.00	8.955	8.720	8.955	8.720
				40	20.68	20.58	24.00	24.00	14.70	14.76	14.70	14.76	11.00	11.00	8.902	8.992	8.902	8.992
	5300	60	SU	—	21.79	22.15	24.00	24.00	19.89	19.85	19.89	19.85	11.00	11.00	7.749	7.711	7.749	7.711
				37	21.52	21.25	24.00	24.00	14.68	14.71	14.68	14.71	11.00	11.00	8.810	8.929	8.810	8.929
			52T	38	18.97	18.96	23.78	23.78	14.67	14.69	14.67	14.69	11.00	11.00	8.793	8.864	8.793	8.864
				40	20.73	20.91	24.00	24.00	14.72	14.73	14.72	14.73	11.00	11.00	8.932	8.946	8.932	8.946
	5320	64	SU	—	20.78	20.72	24.00	24.00	18.81	18.94	18.81	18.94	11.00	11.00	6.527	6.849	6.527	6.849
				37	21.42	21.42	24.00	24.00	14.40	14.39	14.40	14.39	11.00	11.00	8.385	8.247	8.385	8.247
			52T	38	19.01	18.78	23.79	23.74	14.35	14.43	14.35	14.43	11.00	11.00	8.209	8.466	8.209	8.466
				40	20.72	20.72	24.00	24.00	14.37	14.33	14.37	14.33	11.00	11.00	8.221	8.207	8.221	8.207
EHT40 (FCC)	5270	54	SU	—	43.91	43.44	24.00	24.00	19.79	19.81	19.79	19.81	11.00	11.00	4.635	4.698	4.635	4.698
	5310	62		—	42.37	41.55	24.00	24.00	16.65	16.27	16.65	16.27	11.00	11.00	1.391	1.298	1.391	1.298
EHT80 (FCC)	5290	58	SU	—	81.87	81.63	24.00	24.00	17.68	17.08	17.68	17.08	11.00	11.00	0.179	-0.497	0.179	-0.497
				91	82.05	82.15	24.00	24.00	16.88	15.87	16.88	15.87	11.00	11.00	0.091	-0.992	0.091	-0.992
			484+242T	93	63.34	63.24	24.00	24.00	16.94	15.93	16.94	15.93	11.00	11.00	-0.001	-0.999	-0.001	-0.999
				92	82.57	82.28	24.00	24.00	16.79	15.77	16.79	15.77	11.00	11.00	0.321	-0.973	0.321	-0.973
EHT160 (FCC)	5250	50	SU	—	163.70	162.70	24.00	24.00	15.44	14.86	15.44	14.86	11.00	11.00	-4.609	-4.717	-4.609	-4.717
				95	171.80	170.65	24.00	24.00	14.31	13.61	14.31	13.61	11.00	11.00	-4.723	-5.211	-4.723	-5.211
			996+484T	S95	125.17	124.29	24.00	24.00	14.27	13.56	14.27	13.56	11.00	11.00	-4.798	-5.369	-4.798	-5.369
				S94	172.91	172.38	24.00	24.00	14.25	13.59	14.25	13.59	11.00	11.00	-4.803	-5.331	-4.803	-5.331

9.5.8. 802.11be MIMO CDD MODE IN THE UNII-2A BAND

UNII-2A (MIMO CDD)	20MHz		40MHz	80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
Un- Correlated Gain (dBi)	1.70						
Correlated Gain (dBi)	3.90						

UNII-1 (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	0.60
Correlated Gain (dBi)	2.80

UNII-2A (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT16			ANT6	ANT16	
EHT20 (FCC)	5260	52	SU	—	21.97	24.00	18.35	18.22	21.30	11.00	6.193	6.131	9.172
			52T	37	20.53	24.00	11.75	11.69	14.73	11.00	5.839	5.670	8.766
				38	18.43	23.66	11.71	11.70	14.72	11.00	5.721	5.710	8.726
				40	20.74	24.00	11.68	11.77	14.74	11.00	5.642	5.883	8.774
	5300	60	SU	—	21.63	24.00	18.24	18.11	21.19	11.00	6.090	5.950	9.031
			52T	37	20.65	24.00	11.72	11.69	14.72	11.00	5.768	5.677	8.733
				38	18.43	23.66	11.76	11.67	14.73	11.00	5.882	5.649	8.777
				40	20.14	24.00	11.74	11.73	14.75	11.00	5.831	5.819	8.835
	5320	64	SU	—	20.92	24.00	17.50	17.42	20.47	11.00	5.589	5.315	8.464
			52T	37	20.96	24.00	11.39	11.36	14.39	11.00	5.289	5.277	8.293
				38	18.45	23.66	11.32	11.30	14.32	11.00	5.129	5.122	8.136
				40	20.26	24.00	11.42	11.28	14.36	11.00	5.386	5.052	8.233
EHT40 (FCC)	5270	54	SU	—	43.00	24.00	19.91	19.84	22.89	11.00	5.110	4.941	8.037
	5310	62		—	41.56	24.00	15.30	15.46	18.39	11.00	0.609	0.756	3.693
EHT80 (FCC)	5290	58	SU	—	80.84	24.00	15.89	15.78	18.85	11.00	-2.107	-2.126	0.894
			484+242T	91	82.24	24.00	14.86	14.83	17.86	11.00	-1.956	-1.969	1.048
				93	62.50	24.00	14.92	14.76	17.85	11.00	-2.024	-1.881	1.058
				92	81.84	24.00	14.79	14.90	17.86	11.00	-1.744	-2.026	1.128
EHT160 (FCC)	5250	50	SU	—	164.10	24.00	13.90	13.84	16.88	11.00	-5.837	-6.055	-2.934
			996+484T	95	170.56	24.00	12.50	12.62	15.57	11.00	-6.812	-6.514	-3.650
				S95	124.51	24.00	12.53	12.47	15.51	11.00	-6.643	-6.766	-3.694
				S94	171.64	24.00	12.58	12.56	15.58	11.00	-6.798	-6.821	-3.799

Worst-Case PSD Plot:

9.5.9. 802.11n/ac SISO MODE IN THE UNII-2C BAND

UNII-2C (SISO)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
ANT6 (dBi)	-0.90			
ANT16 (dBi)	4.00			

UNII-2C (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20 (FCC)	5500	100	23.51	23.14	24.00	24.00	19.87	18.90	19.87	18.90	11.00	11.00	8.750	7.609	8.750	7.609
	5580	116	23.31	23.86	24.00	24.00	19.88	19.86	19.88	19.86	11.00	11.00	8.761	8.693	8.761	8.693
	5700	140	23.71	23.81	24.00	24.00	17.75	17.63	17.75	17.63	11.00	11.00	6.881	6.876	6.881	6.876
	5720 (Straddle)	144	16.54	16.80	24.00	24.00	19.89	19.85	19.89	19.85	11.00	11.00	8.763	8.602	8.763	8.602
HT40 (FCC)	5510	102	44.98	44.63	24.00	24.00	16.80	15.41	16.80	15.41	11.00	11.00	2.470	0.946	2.470	0.946
	5550	110	46.35	45.15	24.00	24.00	19.81	19.80	19.81	19.80	11.00	11.00	5.687	5.676	5.687	5.676
	5670	134	45.51	44.72	24.00	24.00	19.82	18.84	19.82	18.84	11.00	11.00	5.725	4.672	5.725	4.672
	5710 (Straddle)	142	27.42	28.04	24.00	24.00	19.83	19.84	19.83	19.84	11.00	11.00	5.757	6.015	5.757	6.015
VHT80 (FCC)	5530	106	81.61	81.60	24.00	24.00	18.27	17.71	18.27	17.71	11.00	11.00	1.028	0.225	1.028	0.225
	5610	122	81.93	81.63	24.00	24.00	19.76	19.78	19.76	19.78	11.00	11.00	2.409	2.704	2.409	2.704
	5690 (Straddle)	138	45.72	45.69	24.00	24.00	19.77	19.79	19.77	19.79	11.00	11.00	2.514	2.707	2.514	2.707
VHT160 (FCC)	5570	114	164.10	164.40	24.00	24.00	16.28	15.91	16.28	15.91	11.00	11.00	-3.025	-3.839	-3.025	-3.839

9.5.10. 802.11n/ac MIMO CDD MODE IN THE UNII-2C BAND

UNII-2C (MIMO CDD)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
Un- Correlated Gain (dBi)	1.90			
Correlated Gain (dBi)	4.50			

UNII-2C (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT16			ANT6	ANT16	
HT20 (FCC)	5500	100	22.39	24.00	17.29	17.26	20.29	11.00	7.070	6.996	10.043
	5580	116	23.33	24.00	17.96	18.08	21.03	11.00	7.333	7.447	10.401
	5700	140	23.04	24.00	16.41	16.36	19.40	11.00	5.503	5.472	8.498
	5720 (Straddle)	144	16.33	23.13	18.13	18.25	21.20	11.00	7.550	7.639	10.605
HT40 (FCC)	5510	102	45.23	24.00	14.94	14.86	17.91	11.00	1.556	1.547	4.562
	5550	110	44.00	24.00	19.87	19.88	22.89	11.00	5.779	5.995	8.899
	5670	134	44.21	24.00	18.93	18.85	21.90	11.00	5.047	4.949	8.009
	5710 (Straddle)	142	27.20	24.00	19.90	19.85	22.89	11.00	6.001	5.611	8.821
VHT80 (FCC)	5530	106	81.38	24.00	16.27	16.34	19.32	11.00	0.048	0.167	3.118
	5610	122	81.40	24.00	19.81	19.79	22.81	11.00	2.805	2.748	5.787
	5690 (Straddle)	138	45.67	24.00	19.82	19.77	22.81	11.00	2.877	2.567	5.735
VHT160 (FCC)	5570	114	163.00	24.00	14.81	14.80	17.82	11.00	-4.628	-4.710	-1.659

9.5.11. 802.11be SISO MODE IN THE UNII-2C BAND

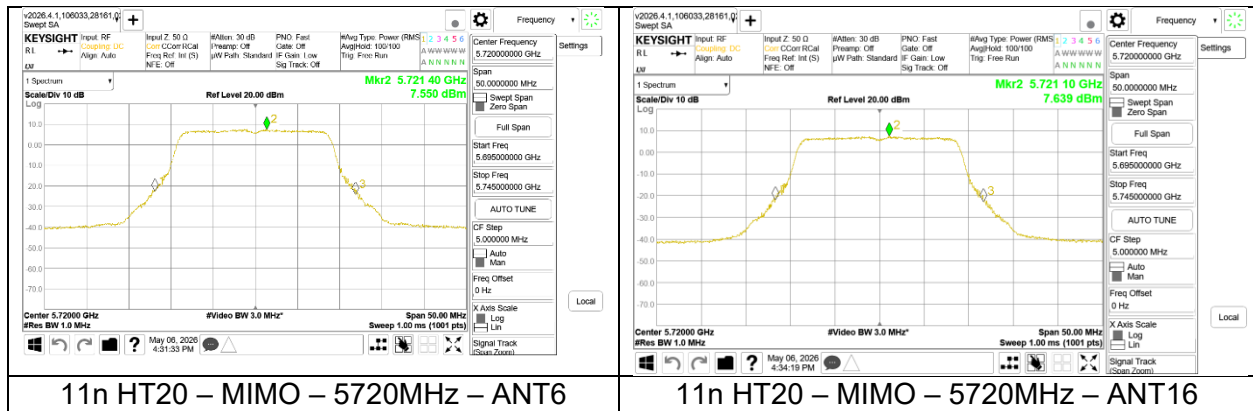
UNII-2C (SISO)	20MHz		40MHz		80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T	
DCCF (MCS0) (dB)	0	0	0	0	0	0	0	
ANT6 (dBi)	-0.90							
ANT16 (dBi)	4.00							

UNII-2C (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
EHT20 (FCC)	5500	100	SU	—	23.05	23.64	24.00	24.00	19.39	18.34	19.39	18.34	11.00	11.00	7.902	6.818	7.902	6.818
				37	21.19	21.34	24.00	24.00	14.66	14.42	14.66	14.42	11.00	11.00	8.430	8.279	8.430	8.279
			52T	38	18.90	18.38	23.76	23.64	14.51	14.52	14.51	14.52	11.00	11.00	8.420	8.348	8.420	8.348
				40	20.74	20.17	24.00	24.00	14.50	14.40	14.50	14.40	11.00	11.00	8.420	8.236	8.420	8.236
	5580	116	SU	—	23.22	23.38	24.00	24.00	19.98	19.96	19.98	19.96	11.00	11.00	8.613	8.555	8.613	8.555
				37	20.32	21.34	24.00	24.00	14.79	14.87	14.79	14.87	11.00	11.00	8.871	9.050	8.871	9.050
			52T	38	19.00	18.77	23.79	23.73	14.77	14.78	14.77	14.78	11.00	11.00	8.829	8.865	8.829	8.865
				40	20.03	20.72	24.00	24.00	14.76	14.81	14.76	14.81	11.00	11.00	8.801	8.966	8.801	8.966
	5700	140	SU	—	23.69	22.97	24.00	24.00	16.88	16.79	16.88	16.79	11.00	11.00	5.594	5.539	5.594	5.539
				37	21.45	20.23	24.00	24.00	14.65	14.50	14.65	14.50	11.00	11.00	8.603	8.315	8.603	8.315
			52T	38	18.89	18.31	23.76	23.63	14.75	14.47	14.75	14.47	11.00	11.00	8.641	8.293	8.641	8.293
				40	20.78	20.00	24.00	24.00	14.57	14.37	14.57	14.37	11.00	11.00	8.584	8.235	8.584	8.235
	5720 (Straddle)	144	SU	—	16.68	16.59	23.22	23.20	19.97	19.99	19.97	19.99	11.00	11.00	8.584	8.927	8.584	8.927
				37	15.29	15.57	22.84	22.92	14.84	14.85	14.84	14.85	11.00	11.00	9.041	9.044	9.041	9.044
			52T	38	14.23	14.43	22.53	22.59	14.83	14.82	14.83	14.82	11.00	11.00	9.034	9.021	9.034	9.021
				40	15.05	15.37	22.78	22.87	14.80	14.85	14.80	14.85	11.00	11.00	8.916	9.044	8.916	9.044
EHT40 (FCC)	5510	102	SU	—	41.67	40.91	24.00	24.00	16.38	16.41	16.38	16.41	11.00	11.00	1.663	1.828	1.663	1.828
	5550	110		—	43.87	43.87	24.00	24.00	19.92	19.93	19.92	19.93	11.00	11.00	5.504	5.612	5.504	5.612
	5670	134		—	42.42	43.28	24.00	24.00	19.35	18.66	19.35	18.66	11.00	11.00	5.325	4.480	5.325	4.480
	5710 (Straddle)	142		—	26.14	26.11	24.00	24.00	19.94	19.95	19.94	19.95	11.00	11.00	5.675	5.729	5.675	5.729
EHT80 (FCC)	5530	106	SU	—	81.29	81.47	24.00	24.00	17.86	17.10	17.86	17.10	11.00	11.00	0.511	0.087	0.511	0.087
				91	82.78	82.40	24.00	24.00	16.30	15.89	16.30	15.89	11.00	11.00	0.276	0.056	0.276	0.056
			484+242T	93	63.59	63.20	24.00	24.00	16.34	15.92	16.34	15.92	11.00	11.00	0.494	-0.249	0.494	-0.249
				92	82.35	82.49	24.00	24.00	16.36	15.84	16.36	15.84	11.00	11.00	0.324	0.070	0.324	0.070
	5610	122	SU	—	82.72	82.18	24.00	24.00	19.76	19.78	19.76	19.78	11.00	11.00	2.421	2.732	2.421	2.732
				91	82.31	82.67	24.00	24.00	19.90	19.88	19.90	19.88	11.00	11.00	4.163	4.027	4.163	4.027
			484+242T	93	63.04	63.43	24.00	24.00	19.84	19.89	19.84	19.89	11.00	11.00	3.959	3.806	3.959	3.806
				92	82.57	82.34	24.00	24.00	19.85	19.82	19.85	19.82	11.00	11.00	3.952	4.160	3.952	4.160
	5690 (Straddle)	138	SU	—	45.75	46.22	24.00	24.00	19.77	19.79	19.77	19.79	11.00	11.00	2.637	2.790	2.637	2.790
				91	46.16	46.09	24.00	24.00	19.81	19.91	19.81	19.91	11.00	11.00	3.759	4.181	3.759	4.181
			484+242T	93	36.75	36.78	24.00	24.00	19.87	19.86	19.87	19.86	11.00	11.00	3.847	3.701	3.847	3.701
				92	46.33	45.97	24.00	24.00	19.83	19.80	19.83	19.80	11.00	11.00	4.007	3.981	4.007	3.981
EHT160 (FCC)	5570	114	996+484T	—	163.30	163.60	24.00	24.00	16.27	15.77	16.27	15.77	11.00	11.00	-3.321	-3.848	-3.321	-3.848
				95	170.72	169.55	24.00	24.00	14.44	13.58	14.44	13.58	11.00	11.00	-3.843	-4.659	-3.843	-4.659
				S95	125.15	125.33	24.00	24.00	14.31	13.63	14.31	13.63	11.00	11.00	-4.024	-4.782	-4.024	-4.782
				S94	169.60	170.89	24.00	24.00	14.33	13.48	14.33	13.48	11.00	11.00	-4.251	-4.646	-4.251	-4.646

9.5.12. 802.11be MIMO CDD MODE IN THE UNII-2C BAND

UNII-2C (MIMO CDD)	20MHz		40MHz	80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
Un- Correlated Gain (dBi)	1.90						
Correlated Gain (dBi)	4.50						

UNII-2C (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT16			ANT6	ANT16	
EHT20 (FCC)	5500	100	SU	—	22.68	24.00	16.78	16.97	19.89	11.00	5.342	5.557	8.461
				37	20.77	24.00	11.39	11.42	14.42	11.00	5.323	5.527	8.436
			52T	38	18.40	23.65	11.45	11.37	14.42	11.00	5.583	5.303	8.456
				40	20.44	24.00	11.44	11.41	14.44	11.00	5.582	5.524	8.563
	5580	116	SU	—	22.41	24.00	18.25	18.07	21.17	11.00	7.118	6.958	10.049
				37	20.50	24.00	11.91	11.85	14.89	11.00	6.158	5.913	9.048
			52T	38	18.38	23.64	11.89	11.86	14.89	11.00	6.044	5.966	9.015
				40	20.48	24.00	11.91	11.88	14.91	11.00	6.158	6.028	9.104
	5700	140	SU	—	23.36	24.00	15.90	15.84	18.88	11.00	4.799	4.677	7.749
				37	20.50	24.00	11.43	11.46	14.46	11.00	5.534	5.592	8.573
			52T	38	18.21	23.60	11.36	11.47	14.43	11.00	5.228	5.641	8.450
				40	20.21	24.00	11.40	11.38	14.40	11.00	5.518	5.306	8.424
	5720 (Straddle)	144	SU	—	16.21	23.10	18.35	18.24	21.31	11.00	7.590	7.363	10.488
				37	15.33	22.85	11.84	11.87	14.87	11.00	5.889	6.009	8.960
			52T	38	14.17	22.51	11.82	11.83	14.84	11.00	5.756	5.780	8.778
				40	15.10	22.79	11.90	11.93	14.93	11.00	6.139	6.261	9.211
EHT40 (FCC)	5510	102	SU	—	40.76	24.00	15.35	15.37	18.37	11.00	1.349	1.652	4.513
	5550	110		—	42.62	24.00	19.92	19.95	22.95	11.00	5.591	5.923	8.770
	5670	134		—	42.49	24.00	18.39	18.30	21.36	11.00	4.262	3.912	7.101
	5710 (Straddle)	142		—	26.35	24.00	19.94	19.93	22.95	11.00	5.874	5.601	8.750
EHT80 (FCC)	5530	106	SU	—	81.45	24.00	14.92	14.90	17.92	11.00	-1.300	-1.340	1.690
				91	82.39	24.00	13.93	13.84	16.90	11.00	-2.551	-2.764	0.354
			484+242T	93	63.37	24.00	13.89	13.80	16.86	11.00	-2.952	-2.669	0.202
				92	82.54	24.00	13.77	13.86	16.83	11.00	-2.659	-2.824	0.270
	5610	122	SU	—	81.75	24.00	19.76	19.78	22.78	11.00	2.633	2.866	5.761
				91	82.16	24.00	19.81	19.90	22.87	11.00	3.583	3.829	6.718
			484+242T	93	62.88	24.00	19.82	19.88	22.86	11.00	3.828	3.777	6.813
				92	82.27	24.00	19.89	19.85	22.88	11.00	3.599	3.826	6.724
	5690 (Straddle)	138	SU	—	46.07	24.00	19.79	19.77	22.79	11.00	3.042	2.645	5.858
				91	46.12	24.00	19.87	19.83	22.86	11.00	3.823	3.656	6.751
			484+242T	93	36.52	24.00	19.86	19.80	22.84	11.00	3.675	3.908	6.803
				92	46.21	24.00	19.84	19.91	22.89	11.00	3.813	3.551	6.694
EHT160 (FCC)	5570	114	SU	—	162.90	24.00	14.83	14.77	17.81	11.00	-4.528	-4.867	-1.684
				95	169.70	24.00	11.76	11.79	14.79	11.00	-7.417	-7.134	-4.263
			996+484T	S95	124.27	24.00	11.78	11.80	14.80	11.00	-7.058	-7.300	-4.167
				S94	170.81	24.00	11.81	11.77	14.80	11.00	-7.185	-7.098	-4.131

Worst-Case PSD Plot:

9.5.13. 802.11n/ac SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	20MHz	40MHz	80MHz
DCCF (MCS0) (dB)	0	0	0
ANT6 (dBi)	-1.40		
ANT16 (dBi)	3.40		

UNII-3 (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20	5745	149	-		30.00	30.00	19.78	19.93	19.78	19.93	30.00	30.00	5.499	5.766	5.499	5.766
	5785	157			30.00	30.00	19.89	19.86	19.89	19.86	30.00	30.00	5.712	5.687	5.712	5.687
	5825	165			30.00	30.00	19.82	19.80	19.82	19.80	30.00	30.00	5.666	5.589	5.666	5.589
HT40	5755	151	-		30.00	30.00	19.82	19.76	19.82	19.76	30.00	30.00	2.553	2.326	2.553	2.326
	5795	159			30.00	30.00	19.81	19.79	19.81	19.79	30.00	30.00	2.395	2.382	2.395	2.382
VHT80	5775	155	-		30.00	30.00	19.91	19.87	19.91	19.87	30.00	30.00	-0.624	-0.783	-0.624	-0.783

9.5.14. 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	20MHz	40MHz	80MHz
DCCF (MCS0) (dB)	0	0	0
Un- Correlated Gain (dBi)	1.20		
Correlated Gain (dBi)	3.80		

UNII-3 (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT16			ANT6	ANT16	
HT20	5745	149	--	30.00	19.87	19.84	22.87	30.00	5.692	5.665	8.689
	5785	157		30.00	19.89	19.77	22.84	30.00	5.708	5.509	8.620
	5825	165		30.00	19.91	19.80	22.87	30.00	5.754	5.605	8.690
HT40	5755	151	--	30.00	19.76	19.82	22.80	30.00	2.202	2.519	5.374
	5795	159		30.00	19.79	19.81	22.81	30.00	2.344	2.428	5.397
VHT80	5775	155	--	30.00	19.86	19.89	22.89	30.00	-0.673	-0.661	2.343

9.5.15. 802.11be SISO MODE IN THE UNII-3 BAND

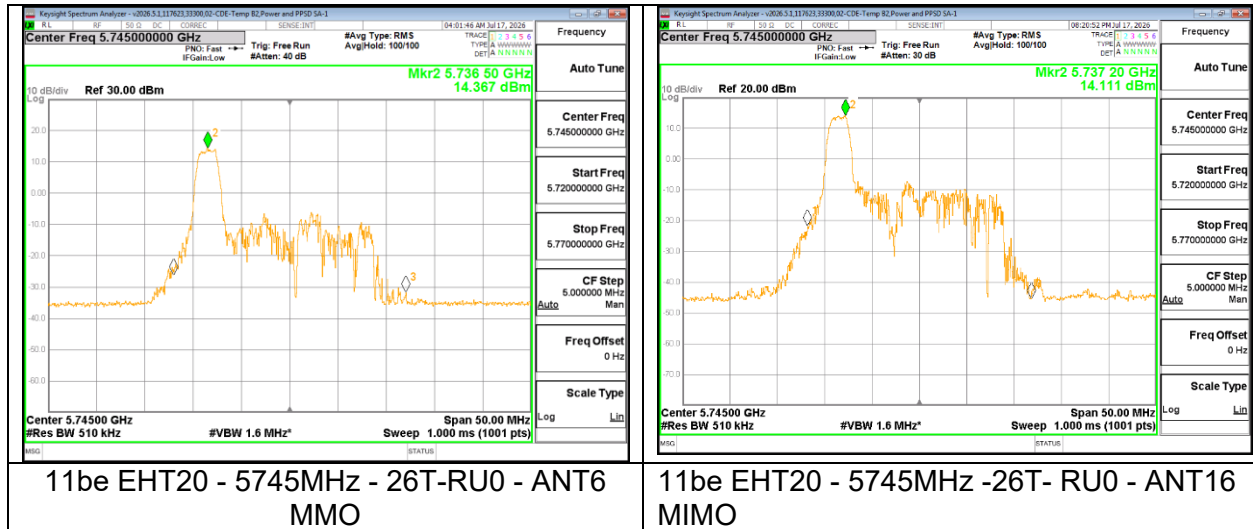
UNII-3 (SISO)	20MHz		40MHz		80MHz	
	SU	26T	SU	SU	484+242T	
DCCF (MCS0) (dB)	0	0	0	0	0	
ANT6 (dBi)	-1.40					
ANT16 (dBi)	3.40					

UNII-3 (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
EHT20	5745	149	SU	—	—		30.00	30.00	19.91	19.83	19.91	19.83	30.00	30.00	5.643	5.488	5.643	5.488
			0	0			30.00	30.00	19.85	19.77	19.85	19.77	30.00	30.00	14.373	14.279	14.373	14.279
			26T	4			30.00	30.00	19.83	19.81	19.83	19.81	30.00	30.00	14.358	14.355	14.358	14.355
			8	8			30.00	30.00	19.91	19.89	19.91	19.89	30.00	30.00	14.454	14.425	14.454	14.425
	5785	157	SU	—			30.00	30.00	19.79	19.87	19.79	19.87	30.00	30.00	5.401	5.572	5.401	5.572
			0	0			30.00	30.00	19.81	19.87	19.81	19.87	30.00	30.00	14.355	14.394	14.355	14.394
			26T	4			30.00	30.00	19.79	19.80	19.79	19.80	30.00	30.00	14.284	14.312	14.284	14.312
			8	8			30.00	30.00	19.90	19.92	19.90	19.92	30.00	30.00	14.450	14.457	14.450	14.457
	5825	165	SU	—			30.00	30.00	19.76	19.87	19.76	19.87	30.00	30.00	5.387	5.560	5.387	5.560
			0	0			30.00	30.00	19.86	19.84	19.86	19.84	30.00	30.00	14.380	14.360	14.380	14.360
			26T	4			30.00	30.00	19.76	19.78	19.76	19.78	30.00	30.00	14.167	14.280	14.167	14.280
			8	8			30.00	30.00	19.93	19.88	19.93	19.88	30.00	30.00	14.482	14.424	14.482	14.424
EHT40	5755	151	SU	—			30.00	30.00	19.81	19.85	19.81	19.85	30.00	30.00	2.360	2.380	2.360	2.380
	5795	159	—	—			30.00	30.00	19.91	19.89	19.91	19.89	30.00	30.00	2.709	2.493	2.709	2.493
EHT80	5775	155	SU	—	—		30.00	30.00	19.92	19.87	19.92	19.87	30.00	30.00	-0.722	-1.080	-0.722	-1.080
			91	91			30.00	30.00	19.88	19.86	19.88	19.86	30.00	30.00	0.682	0.531	0.682	0.531
			484+242T	93			30.00	30.00	19.86	19.91	19.86	19.91	30.00	30.00	0.274	0.418	0.274	0.418
			92	92			30.00	30.00	19.79	19.81	19.79	19.81	30.00	30.00	0.539	0.693	0.539	0.693

9.5.16. 802.11be MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	20MHz		40MHz		80MHz	
	SU	26T	SU	SU	484+242T	
DCCF (MCS0) (dB)	0	0	0	0	0	
Un- Correlated Gain (dBi)	1.20					
Correlated Gain (dBi)	3.80					

UNII-3 (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT16			ANT6	ANT16	
EHT20	5745	149	SU	—	—	30.00	19.81	19.87	22.85	30.00	5.470	5.622	8.557
				0		30.00	19.93	19.84	22.90	30.00	14.367	14.111	17.251
			26T	4		30.00	19.76	19.80	22.79	30.00	13.938	14.073	17.016
				8		30.00	19.85	19.92	22.90	30.00	14.180	14.294	17.248
	5785	157	SU	—		30.00	19.92	19.77	22.86	30.00	5.678	5.377	8.540
				0		30.00	19.86	19.91	22.90	30.00	14.199	14.275	17.247
			26T	4		30.00	19.77	19.90	22.85	30.00	13.939	14.274	17.120
				8		30.00	19.89	19.79	22.85	30.00	14.273	14.050	17.173
	5825	165	SU	—		30.00	19.88	19.83	22.87	30.00	5.672	5.569	8.631
				0		30.00	19.88	19.82	22.86	30.00	14.238	14.090	17.175
			26T	4		30.00	19.78	19.81	22.81	30.00	14.023	14.077	17.060
				8		30.00	19.83	19.87	22.86	30.00	14.092	14.233	17.173
EHT40	5755	151	SU	—	—	30.00	19.91	19.86	22.89	30.00	2.542	2.238	5.403
	5795	159		—		30.00	19.87	19.82	22.86	30.00	2.362	2.124	5.255
EHT80	5775	155	SU	—	—	30.00	19.94	19.91	22.94	30.00	-0.645	-0.989	2.197
				91		30.00	19.86	19.94	22.91	30.00	0.362	0.609	3.498
			484+242T	93		30.00	19.84	19.91	22.89	30.00	0.407	0.321	3.375
				92		30.00	19.89	19.81	22.86	30.00	0.323	0.577	3.462

Worst-Case PSD Plot:

10. SETUP PHOTOS

Please refer to 15982168-EP1 for setup photos.

11. APPENDIX A – SPOT CHECK EVALUATION

11.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3716, A3717 and A3718. These models are very similar, with only the following differences.

Model	FCC ID	Feature Difference	Sim Support	Reference Model
A3716	BCG-E9195A	-Without FR2 -Added LTE B11, B21	eSIM	-
A3717	BCG-E9196A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	A3716
A3718	BCG-E9197A	-Without FR2 -No LTE/5GNR B14, B29, B71, B53 -No LTE B11, B21, MSS	eSIM + pSIM	

Note:

- All Models use the same System, Cellular and Connectivity radio electrical schematics.
- Removal of LTE/ 5GNR bands on models either done by software or de-population of related components. Please refer to data reuse test plan for details.
- All Models use the same Applications Processor and PMU.
- All Models use the same UICC hardware/software interface.
- All Models run the same Baseband firmware and iOS software.

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

11.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3717

A3717 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3716	Sub Model: A3717	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9195A	FCC ID : BCG-E9196A			
NII / UNII-1	5.2G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	46	5.230	22.89	22.85	-0.04	-1.11	Note 1
		EHT20 (Ant 6)	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	36	5.149862	51.31	48.71	-2.60	-2.69	Note 1
		EHT20 (CDD)	MCS0 52T RU40	PK RSE (dBuV/m)	Vertical 1 to 18	48	16.928913	58.13	57.93	-0.20	-10.07	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.89	22.93	0.04	-1.11	Note 1
		EHT20 (Ant 6)	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	64	5.350812	51.35	49.43	-1.92	-2.65	Note 1
		EHT20 (CDD)	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	60	17.744678	43.69	44.46	0.77	-10.31	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	110	5.550	22.95	22.91	-0.04	-1.05	Note 1
		HT40 (Ant 16)	MCS7	Pk Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	134	5.727647	63.70	65.78	2.08	-4.50	Note 1
		EHT80 (CDD)	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	122	15.633584	43.43	43.14	-0.29	-10.57	Note 1
NII / UNII-3	5.8G	EHT80 (CDD)	MCS0	Avg Power (dBm)	Fundamental	155	5.775	22.94	22.91	-0.03	-7.06	Note 1
		VHT80 (Ant 16)	MCS9	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	155	5.650201	-31.45	-29.62	1.83	-4.60	Note 1
		EHT80 (CDD)	MCS0 SU	Avg RSE (dBuV/m)	Vertical 1 to 18	155	15.914572	43.90	42.50	-1.40	-10.10	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

11.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3718

A3718 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3716	Sub Model: A3718	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9195A	FCC ID : BCG-E9197A			
NII / UNII-1	5.2G	EHT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.89	22.93	0.04	-1.11	Note 1
		EHT20 (Ant 6)	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	36	5.149862	51.31	51.80	0.49	-2.69	Note 1
		EHT20 (CDD)	MCS0 52T RU40	PK RSE (dBuV/m)	Vertical 1 to 18	48	16.928913	58.13	57.46	-0.67	4.13	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.89	22.81	-0.08	-1.11	Note 1
		EHT20 (Ant 6)	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	64	5.350812	51.35	52.92	1.57	-2.65	Note 1
		EHT20 (CDD)	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	60	17.744678	43.69	43.35	-0.34	-10.31	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	110	5.550	22.95	22.89	-0.06	-1.05	Note 1
		HT40 (Ant 16)	MCS7	Pk Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	134	5.727647	63.70	66.76	3.06	-4.50	Note 1
		EHT80 (CDD)	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	122	15.633584	43.43	41.10	-2.33	-10.57	Note 1
NII / UNII-3	5.8G	EHT80 (CDD)	MCS0	Avg Power (dBm)	Fundamental	155	5.775	22.94	22.90	-0.04	-7.06	Note 1
		VHT80 (Ant 16)	MCS11	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	155	5.650201	-31.45	-30.33	1.12	-4.61	Note 1
		EHT80 (CDD)	MCS0 SU	Avg RSE (dBuV/m)	Vertical 1 to 18	155	15.914572	43.90	41.44	-2.46	-10.10	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.