

TEST REPORT

Report Number: 14982436-E10V6

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

Model : A3083 (Parent Model)
A3292, A3293, A3294 (Variant Models)

Brand : APPLE

FCC ID : BCG-E8666A (Parent Model)
BCG-E8667A, BCG-E8668A, BCG-E8683A (Variant Models)

EUT Description : SMARTPHONE

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

Date Of Issue:

2024/08/23

Prepared by:

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024/06/26	Initial Review	Tony Li
V2	2024/07/08	Addressed TCB Questions on Sections 3, 6, 8, and 9	Tony Li
V3	2024/07/10	Addressed TCB Questions on Section 9	Tony Li
V4	2024/07/12	Addressed TCB Questions on Section 9	Tony Li
V5	2024/08/14	Updated section 2, 9.2 and 9.3 to identify the 320MHz limit for emissions bandwidth	Tony Li
V6.1	2024/08/23	Updated Section 2, 9.2, 9.3 statements regarding limit for emissions bandwidths Updated Section 10 to add set up diagram	Tony Li

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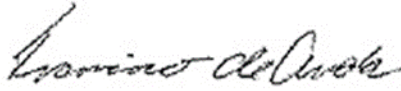

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3083 (Parent Model) A3292, A3293, A3294 (Variant Models)	
Brand	APPLE	
FCC ID	BCG-E8666A (Parent Model) BCG-E8667A, BCG-E8668A, BCG-E8683A (Variant Models)	
EUT Description	SMARTPHONE	
Serial Number	C07GYF0008T0000FDV, C07H4F0015B0000FDT, QKPYHGJC7L, XK3DWHQHQQW.	
Sample Receipt Date	2023/12/19	
Date Tested	2024/02/05 to 2024/06/24	
Applicable Standards	CFR 47 Part 15 Subpart E	
Test Results	COMPLIES	
<p>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.</p> <p>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.</p> <p>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. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.</p>		
Approved & Released By:	Prepared & Reviewed By:	
		
Francisco de Anda Staff Engineer UL Verification Services, Inc.	Tony Li Lead Test Engineer 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 the validity of results after the integration of the data provided by the customer.

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	Comment
Duty Cycle	-	Reporting purposes only	ANSI C63.10 Section 12.2
99% BW	§15.407 (a) (11) KDB 987594 D03 v02 Q18	Compliant	ANSI C63.10 Section 6.9.3
26dB BW			ANSI C63.10 Section 6.9.3
Output Power EIRP	§15.407 (a) (7), (8)	Compliant	Dual Client
PSD EIRP	§15.407 (a) (7), (8)	Compliant	Dual Client
Emissions outside 5.925-7.125 GHz band	§15.407 (b) (6)	Compliant	None
Emissions within 5.925-7.125 GHz Band (Emissions Mask)	§15.407 (b) (7)	Compliant	None
Unwanted emissions in restricted bands	§15.205	Compliant	None
Radiated Spurious Emissions	§15.209	Compliant	None
AC Mains Conducted Emissions	§15.207	Compliant	None

3. TEST METHODOLOGY

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

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- FCC KDB 987594 D01 General Requirements v02r02
- FCC KDB 987594 D02 EMC Measurement v02r01
- KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

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
<input checked="" type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
<input checked="" type="checkbox"/>	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 (Peak) 1.300 dB (Ave)
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, 5G NR2, 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), WPT 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.

This report covers 6E 802.11 ax/be Wifi radio.

6.1.1. EUT DEVICE CLASS CATEGORY

Dual Client (6CD)	U-NII Bands of Operation			
	5	6	7	8
Indoor Client	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Standard Client	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum EIRP output power as follows:

6.2.1. LP

UNII-5 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-5 Band, 1TX			
5955-6415	802.11be EHT20	8.62	7.28
5965-6405	802.11be EHT40	11.61	14.49
5985-6385	802.11be EHT80	14.57	28.64
6025-6345	802.11be EHT160	16.84	48.31
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	5.86	3.85
5955-6415	802.11be EHT20 SDM	8.62	7.28
5965-6405	802.11be EHT40 CDD	8.87	7.71
5965-6405	802.11be EHT40 SDM	11.62	14.52
5985-6385	802.11be EHT80 CDD	11.89	15.45
5985-6385	802.11be EHT80 SDM	14.60	28.84
6025-6345	802.11be EHT160 CDD	14.09	25.64
6025-6345	802.11be EHT160 SDM	16.86	48.53

UNII-6 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-6 Band, 1TX			
6435 - 6515	802.11be EHT20	8.58	7.21
6445 - 6525	802.11be EHT40	11.64	14.59
6465	802.11be EHT80	14.59	28.77
6505	802.11be EHT160, Straddle Channel	16.74	47.21
UNII-6 band, 2TX			
6435 - 6515	802.11be EHT20 CDD	5.91	3.90
6435 - 6515	802.11be EHT20 SDM	8.65	7.33
6445 - 6525	802.11be EHT40 CDD	9.01	7.96
6445 - 6525	802.11be EHT40 SDM	11.72	14.86
6465	802.11be EHT80 CDD	11.93	15.60
6465	802.11be EHT80 SDM	14.66	29.24
6505	802.11be EHT160 CDD, Straddle	14.23	26.49
6505	802.11be EHT160 SDM Straddle	16.94	49.43

UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535 - 6875	802.11be EHT20	8.45	7.00
6565 - 6845	802.11be EHT40	11.45	13.96
6545 - 6865	802.11be EHT80	14.45	27.86
6665 - 6825	802.11be EHT160	16.67	46.45
UNII-7 Band 2TX			
6535-6875	802.11be EHT20 CDD	6.30	4.27
6535-6875	802.11be EHT20 SDM	8.76	7.52
6565-6845	802.11be EHT40 CDD	9.13	8.18
6565-6845	802.11be EHT40 SDM	11.62	14.52
6545-6865	802.11be EHT80 CDD	12.29	16.94
6545-6865	802.11be EHT80 SDM	14.81	30.27
6665-6825	802.11be EHT160 CDD	14.51	28.25
6665-6825	802.11be EHT160 SDM	17.04	50.58

UNII-8 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-8 Band 1TX			
6895-7115	802.11be EHT20	8.69	7.40
6885-7085	802.11be EHT40	11.72	14.86
6945-7025	802.11be EHT80	14.71	29.58
6985	802.11be EHT160	16.93	49.32
UNII-8 Band 2TX			
6895-7115	802.11be EHT20 CDD	5.77	3.78
6895-7115	802.11be EHT20 SDM	8.53	7.13
6885-7085	802.11be EHT40 CDD	9.28	8.47
6885-7085	802.11be EHT40 SDM	11.71	14.83
6945-7025	802.11be EHT80 CDD	11.79	15.10
6945-7025	802.11be EHT80 SDM	14.52	28.31
6985	802.11be EHT160 CDD	13.90	24.55
6985	802.11be EHT160 SDM	16.79	47.75

6.2.2. SP**UNII-5 BAND**

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-5 Band, 1TX			
5955-6415	802.11be EHT20	22.02	159.22
5965-6405	802.11be EHT40	22.06	160.69
5985-6385	802.11be EHT80	22.01	158.85
6025-6345	802.11be EHT160	22.04	159.96
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	23.37	217.27
5955-6415	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
5965-6405	802.11be EHT40 CDD	23.39	218.27
5955-6405	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
5985-6385	802.11be EHT80 CDD	23.39	218.27
5985-6385	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6025-6345	802.11be EHT160 CDD	23.36	216.77
6025-6345	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

UNII-7 BAND (FCC)

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535-6855	802.11be EHT20	21.98	157.76
6565-6845	802.11be EHT40	21.98	157.76
6625-6785	802.11be EHT80	21.98	157.76
6665	802.11be EHT160	21.96	157.04
UNII-7 Band 2TX			
6535-6855	802.11be EHT20 CDD	22.86	193.20
6535-6855	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
6565-6845	802.11be EHT40 CDD	22.85	192.75
6565-6845	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
6625-6785	802.11be EHT80 CDD	22.86	193.20
6625-6785	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6665	802.11be EHT160 CDD	22.87	193.64
6665	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

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

Type: IFA

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	0.10	-1.10	-0.46	2.53
	Sub-band 2 (6115 - 6255)	0.90	-2.40	-0.44	2.42
	Sub-band 3 (6275 - 6415)	1.60	-2.90	-0.09	2.65
6425 - 6525 UNII-6	N/A	1.90	-3.70	-0.05	2.55
UNII-6/7 (Straddle Channel)	N/A	2.00	-3.70	0.02	2.62
6525 - 6875 UNII-7	N/A	2.00	-4.40	-0.11	2.39
UNII-7/8 (Straddle Channel)	N/A	2.00	-3.50	0.07	2.69
6875 - 7125 UNII-8	N/A	1.00	-3.50	-0.69	2.05

Type: SMA

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dB)	Antenna 5 (dB)
5925-6105	2.93	3.20
6105-6265	2.93	3.20
6265-6425	2.98	3.40
6425-6525	3.03	3.45
6525-6875	3.08	3.60
6875-7125	3.08	3.50

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

Note: ANT1 and ANT2 indicated in the test result sections are representative of ANT6 and ANT5, respectively.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was 27_20_111_38.

6.5. WORST-CASE CONFIGURATION AND MODE

This device is classified as dual client and programmed with two output power levels: indoor client mode (LP) & standard client mode (SP).

For RF conducted tests, indoor client mode has been tested with SISO and 2TX CDD and SDM MIMO modes; for standard client mode, SISO and 2TX CDD modes were tested as 2TX CDD and SDM modes have the same tune up levels and 2TX CDD mode was tested on all antenna ports after investigation.

The 802.11a mode 20MHz covered by the 802.11ax mode since both have the same power.

Radiated was performed at the higher of the LP and SP power levels. The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y (Landscape) orientation was worst-case orientation for ANT6 and Z (Portrait) was the worst-case orientation for ANT5 and 2TX.

With same power on Full RU and SU higher data rate, investigations were performed on both for band edge to determine the worst case, and SU mode was determined to be the worst case. Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. There were no emissions found below 30MHz within 20dB of the limit.

For radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-26GHz, 26-40GHz and power line conducted emissions were performed with the EUT set at the 2TX CDD mode among the CDD/SDM modes and 2TX EHT modes with power setting equal or higher than SISO modes as worst-case scenario.

For radiated band edge test, all test modes have been investigated with power setting equal or higher than conducted SISO modes as the worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz tests, the worst-case configuration reported was with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop.

For conducted testing - all tests perform on both SU (highest output power) and Partial RU tones (highest PSD reading).

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. For the radiated band edge on UNII-5 (low channel) & UNII-8 (high channel), following are the worst-case data rates set for test:

802.11be EHT20/EHT40/EHT80/EHT160 Partial RU Tones and SU modes: MCS0 & MCS11 (report MCS11 only as worst-case mode).

802.11be EHT20 Channel 233: supports SU Mode only per manufacturer.

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 was tested to represent worst-case reporting.

For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

After the investigation, it was found that the worst case of power and PSD modes for full testing as table shown below, in addition we also spot-checked Full RU and the rest of Partial RU modes on radiated bandedge, conducted emissions mask, and radiated spurious emissions.

6.5.1. LP

BW (MHz)	Tone (T)	RU Index	RU Index from Chipset support	Worst Case Tone (UNII-5)		Worst Case Tone (UNII-6)		Worst Case Tone (UNII-7)		Worst Case Tone (UNII-8)	
				Power	PSD	Power	PSD	Power	PSD	Power	PSD
20	26	0~8	0~8						X		
	52	37~40	37~40								
	52+26	70~81	70, 71, 72								
	106	53~54	53~54								
	106+26	82~89	82, 83		X		X				X
	242	61	61								
	SU	--	--		X		X		X		X
40	26	0~17	0~17								
	52	37~44	37~44								
	52+26	70~81	70, 72, 73, 74, 75								
	106	53~56	53~56								
	106+26	82~89	82, 83, 84, 85		X		X		X		X
	242	61~61	61~62								
	484	65	65								
SU	--	--		X		X		X		X	
80	26	0~36	0~36								
	52	37~52	37~52		X		X		X		
	52+26	70~81	71,72,73,74,77,78,79,80								
	106	53~60	53~60								
	106+26	82~89	82, 85, 86, 89								
	242	61~64	61~64								
	484	65~66	65~66								X
	484+242	90, 91, 92, 93	90, 91, 92, 93								
	SU	--	--		X		X		X		X
160	26	0~S36	0~S36								
	52	37~S52	37~S52								
	52+26	70~S81	sb0: 71,72,73,74,77,78,79,80 sb1: 71,72,73,74,77,78,79,80								
	106	53~S60	53~S60								
	106+26	82~89	82, 85, 86, 89								
	242	61~S64	61~S64								
	484	65~S66	65~S66		X		X		X		X
	484+242	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93								
	996	67~S67	67~S67								
	996+484	sb0: 94, 95 sb1: 94, 95	sb0: 94, 95 sb1: 94, 95								
	996+484+242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99								
	996x2	S68	S68								
	SU	--	--		X		X		X		X

6.5.2. SP

BW (MHz)	Tone (T)	RU Index	RU Index from Chipset support	Worst Case Tone (UNII-5)		Worst Case Tone (UNII-6)		Worst Case Tone (UNII-7)		Worst Case Tone (UNII-8)	
				Power	PSD	Power	PSD	Power	PSD	Power	PSD
20	26	0~8	0~8								
	52	37~40	37~40		X				X		
	52+26	70~81	70, 71, 72								
	106	53~54	53~54								
	106+26	82~89	82, 83								
	242	61	61								
	SU	--	--		X			X			
40	26	0~17	0~17								
	52	37~44	37~44								
	52+26	70~81	70, 72, 73, 74, 75								
	106	53~56	53~56								
	106+26	82~89	82, 83, 84, 85								
	242	61~61	61~62		X				X		
	484	65	65								
SU	--	--		X			X				
80	26	0~36	0~36								
	52	37~52	37~52								
	52+26	70~81	71,72,73,74,77,78,79,80								
	106	53~60	53~60								
	106+26	82~89	82, 85, 86, 89								
	242	61~64	61~64		X				X		
	484	65~66	65~66								
	484+242	90, 91, 92, 93	90, 91, 92, 93								
SU	--	--		X			X				
160	26	0~S36	0~S36								
	52	37~S52	37~S52								
	52+26	70~S81	sb0: 71,72,73,74,77,78,79,80 sb1: 71,72,73,74,77,78,79,80								
	106	53~S60	53~S60								
	106+26	82~89	82, 85, 86, 89								
	242	61~S64	61~S64		X				X		
	484	65~S66	65~S66								
	484+242	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93								
	996	67~S67	67~S67								
	996+484	sb0: 94, 95 sb1: 94, 95	sb0: 94, 95 sb1: 94, 95								
	996+484+242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99								
	SU	--	--		X			X			

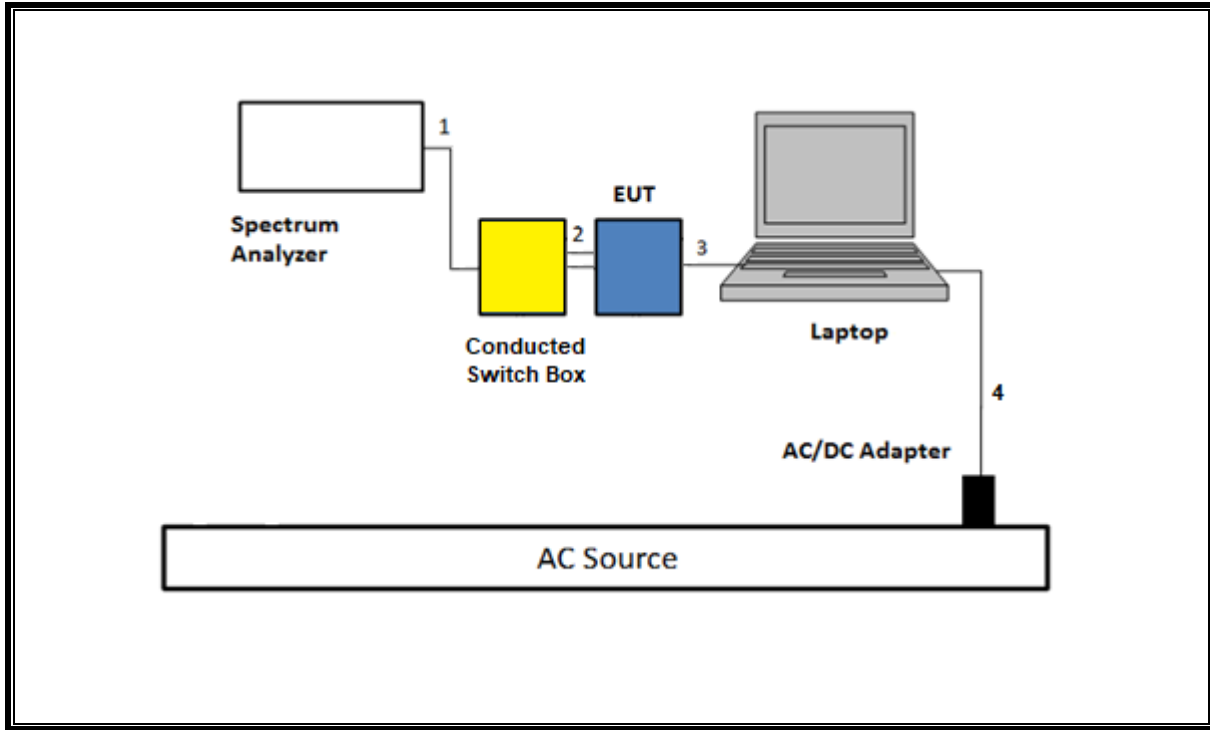
6.6. DESCRIPTION OF TEST SETUP

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	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	To Conducted Switch Box
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	AC	1	AC	Un-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	Un-shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A

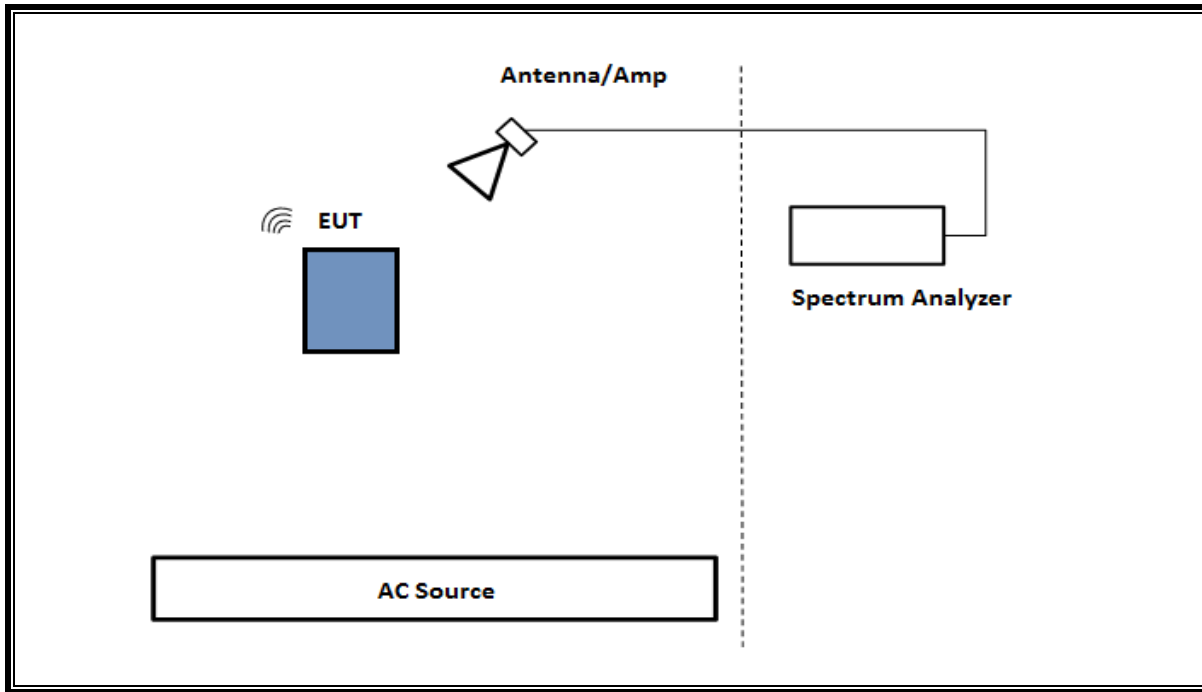
TEST SETUP

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

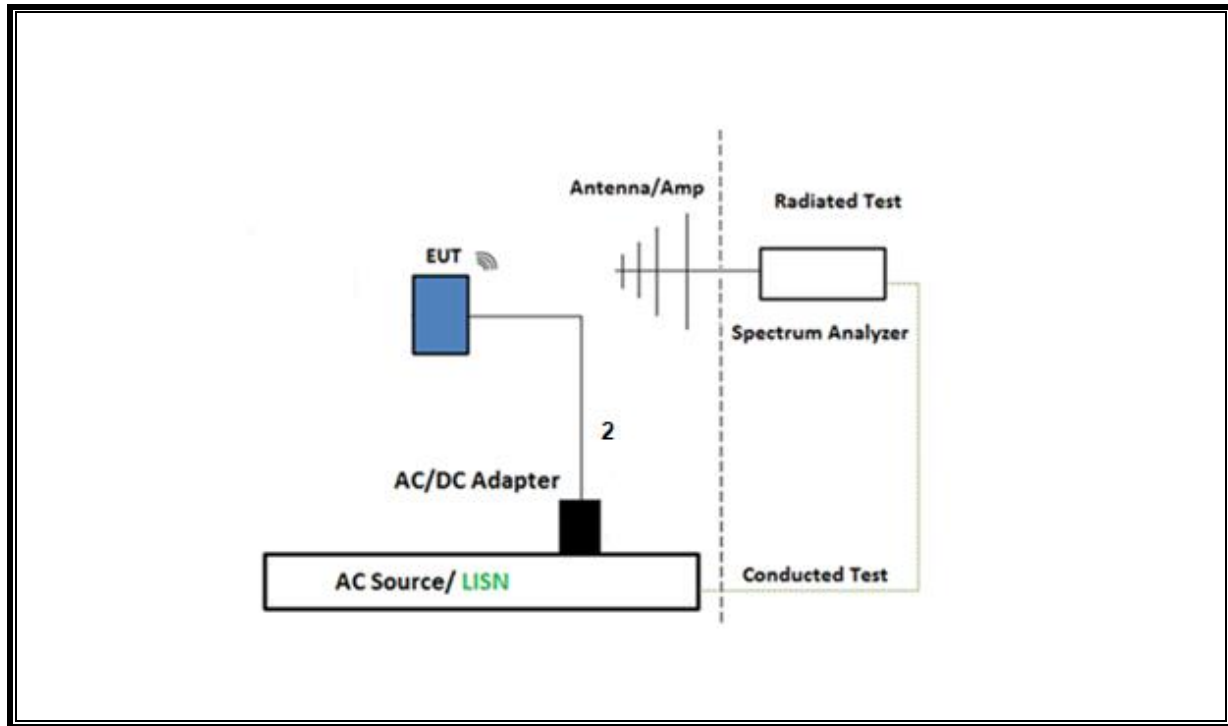
SETUP DIAGRAM FOR CONDUCTED TESTS



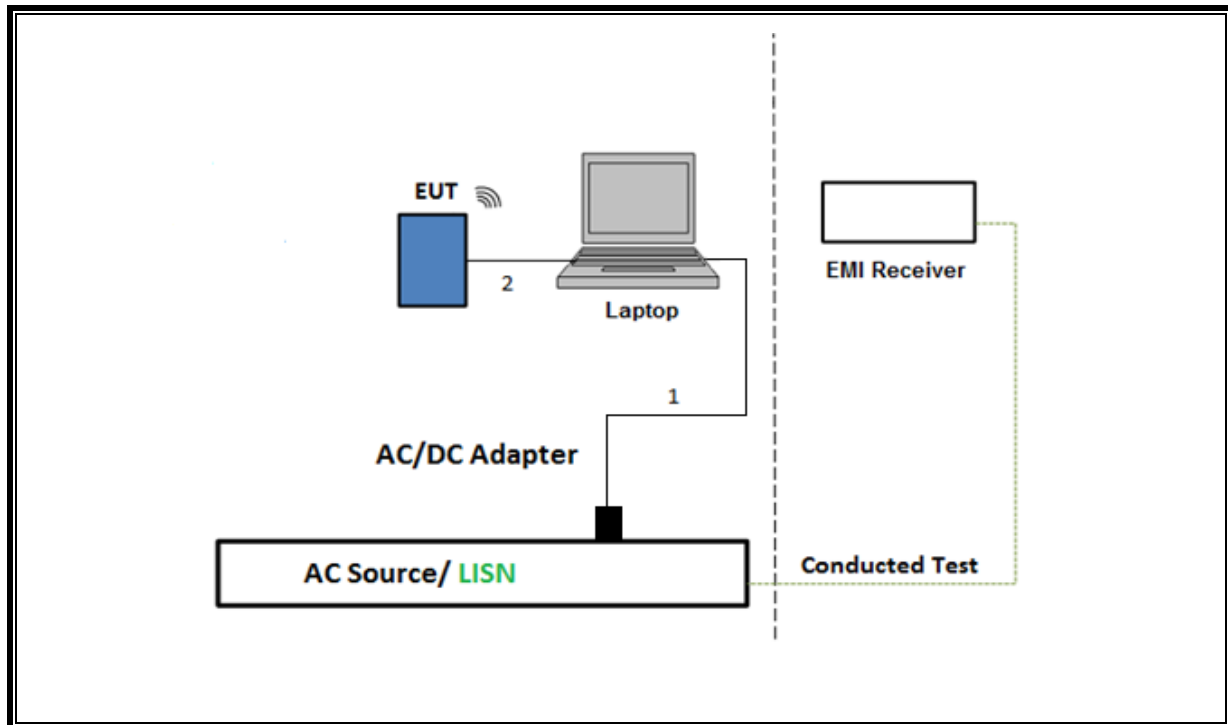
SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz (1 to 40GHz)



SETUP DIAGRAM FOR 30-1000MHz and AC LINE CONDUCTED TEST



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.

99% Occupied Bandwidth: KDB 789033 D02 v02r01, Section II-D

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.3.b (Method PM-G).

Power Spectral Density (PSD): KDB 789033 D02 v02r01, Section F

Spurious emissions within 5.925-7.125 GHz Band (Emissions Mask): KDB 987594 D02 EMC Measurement Section II-J

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2013 Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200785	2024/10/31	2022/10/25
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206807	2025/02/29	2023/02/14
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	230878	2025/05/16	2024/05/16
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2025/02/17	2024/02/17
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80430	2024/08/31	2022/08/08
RF Filter Box, 1-18GHz	UL-FR1	Frankenstein, 2 Amp version	237597	2024/09/30	2023/09/13
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025/02/28	2024/02/11
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80403	2024/06/30	2023/06/22
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	236726	2024/10/30	2023/10/10
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2025/02/28	2024/02/19
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	81887	2025/03/31	2023/03/20
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225474	2025/04/30	2024/04/20
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201502	2025/02/28	2024/02/19
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222740	2024/08/31	2022/08/31
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	226781	2024/10/30	2023/10/10
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226078	2025/02/28	2024/02/18
Antenna, BroadBand Hybrid, 30MHz to 3GHz	SUNOL SCIENCES CORP.	JB3	230634	2025/01/31	2023/01/23
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	79584	2025/01/31	2023/01/23
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235266	2025/02/28	2024/02/18
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81139	2024/08/31	2023/08/08
RF Amplifier Assembly, 18- 26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2025/03/31	2024/03/11
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172369	2025/11/30	2023/11/03
RF Amplifier Assembly, 26- 40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	221834	2025/03/31	2024/03/11
Conducted Switch Box	N/A	CSB	187984	2025/05/31	2024/05/09

Below are Conducted Items					
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90731	2025/01/31	2024/01/25
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	80120	2025/01/31	2024/01/25
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90719	2025/01/31	2024/01/25
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90389	2025/01/31	2024/01/25
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178557	Verified Before Use	
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178558	Verified Before Use	
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2025/01/31	2024/01/24
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight Technologies Inc	N9030A	80400	2025/02/02	2024/02/07
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2025/01/31	2024/01/24
PXA Signal Analyzer 2Hz to 44GHz	Keysight Technologies Inc	N9030B	231739	2025/01/31	2024/01/31
Conducted Switch Box	N/A	CSB	208281	2025/05/30	2024/05/08
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170013	2024/07/31	2023/07/31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2024/07/31	2023/07/31

AC Line Conducted					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	93091	2025/02/28	2024/02/28
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175765	2025/01/31	2024/01/31
Transient Limiter	TE	TBFL1	207996	2024/08/31	2023/08/31
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023		
Conducted Software	UL	UL EMC	2023.2.23		
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023		

*Testing was completed before equipment calibration date

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

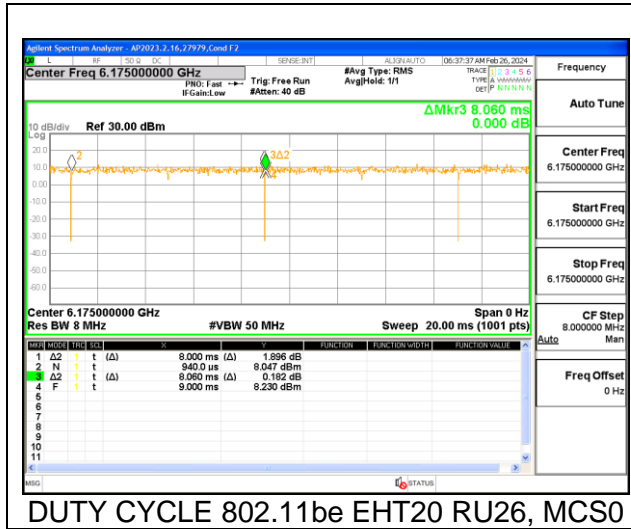
ON TIME AND DUTY CYCLE RESULTS

Mode	Tone (T)	Data Rate (Mbps)	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
EHT20	SU	MCS0	6.360	6.400	0.9938	99.38%	0.00	0.010
		MCS11	0.161	0.186	0.8652	86.52%	0.63	6.231
	52T	MCS0	3.763	3.800	0.9903	99.03%	0.00	0.010
		MCS11	2.778	3.154	0.8808	88.08%	0.55	0.360
	26T	MCS0	8.000	8.060	0.9926	99.26%	0.00	0.010
		MCS11	0.292	0.329	0.8875	88.75%	0.52	3.425
MRU 106 + 26T	MCS0	3.540	3.580	0.9888	98.88%	0.00	0.010	
	MCS11	0.264	0.284	0.9296	92.96%	0.32	3.788	
EHT40	SU	MCS0	3.041	3.093	0.9832	98.32%	0.00	0.010
		MCS11	0.247	0.299	0.8259	82.59%	0.83	4.055
	242T	MCS0	3.043	3.081	0.9877	98.77%	0.00	0.010
		MCS11	233.600	272.100	0.8585	85.85%	0.66	0.004
	MRU 106 + 26T	MCS0	0.813	0.849	0.9576	95.76%	0.19	1.230
		MCS11	0.105	0.143	0.7368	73.68%	1.33	9.524
EHT80	SU	MCS0	1.956	2.020	0.9683	96.83%	0.14	0.511
		MCS11	0.182	0.241	0.7575	75.75%	1.21	5.482
	242T	MCS0	3.041	3.082	0.9867	98.67%	0.00	0.010
		MCS11	234.900	273.400	0.8592	85.92%	0.66	0.004
	484T	MCS0	8.025	8.055	0.9963	99.63%	0.00	0.010
		MCS11	0.291	0.313	0.9297	92.97%	0.32	3.436
52T	MCS0	2.003	2.058	0.9733	97.33%	0.12	0.499	
	MCS11	0.170	0.214	0.7910	79.10%	1.02	5.896	
EHT160	SU	MCS0	1.011	1.071	0.9440	94.40%	0.25	0.989
		MCS11	0.125	0.189	0.6605	66.05%	1.80	8.032
	242T	MCS0	3.043	3.082	0.9873	98.73%	0.00	0.010
		MCS11	235.000	274.200	0.8570	85.70%	0.67	0.004
	484T	MCS0	8.025	8.070	0.9944	99.44%	0.00	0.010
		MCS11	0.292	0.313	0.9335	93.35%	0.30	3.425

Mode	Tone (T)	Data Rate (Mbps)	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
EHT20 SDM	SU	MCS0	1.583	1.603	0.9879	98.79%	0.00	0.010
	26T	MCS0	3.985	4.021	0.9909	99.09%	0.00	0.010
	MRU 106 + 26T	MCS0	3.550	3.580	0.9916	99.16%	0.00	0.010
EHT40 SDM	SU	MCS0	1.564	1.584	0.9872	98.72%	0.00	0.010
	MRU 106 + 26T	MCS0	0.300	0.301	0.9966	99.66%	0.00	0.010
EHT80 SDM	SU	MCS0	0.738	0.790	0.9336	93.36%	0.30	1.356
	484T	MCS0	8.025	8.055	0.9963	99.63%	0.00	0.010
	52T	MCS0	3.791	3.858	0.9826	98.26%	0.00	0.010
EHT160 SDM	SU	MCS0	0.515	0.577	0.8917	89.17%	0.50	1.944
	484T	MCS0	4.025	4.059	0.9916	99.16%	0.00	0.010

Note: There are same duty cycle factor on 1TX and 2TX.

DUTY CYCLE PLOTS



Intentionally Blank

9.2. LP 26 dB AND 99% BANDWIDTH

LIMITS

§15.407 (a) (11)

The maximum bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz. KDB 987594 D03 U-NII 6 GHz QA v02, modified by FCC TCB Workshop Presentation Review of TCB PAG Submissions - October 2023, allows the maximum bandwidths to be defined by either the 26dB bandwidth or the 99% bandwidth for a 320 MHz nominal channel bandwidth and by the 26dB bandwidth for all other nominal channel bandwidths. The KDB requires that the test report show the 99% and 26 dB bandwidth for all the nominal channel bandwidths used by the device.

PROCEDURE

ANSI C63.10: 2013 §6.9

Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-8	Partial RU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

ID:	32543	Date:	5/16/2024
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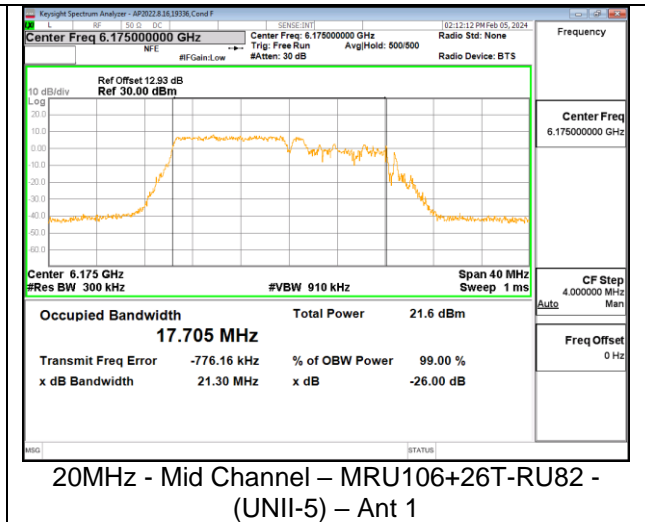
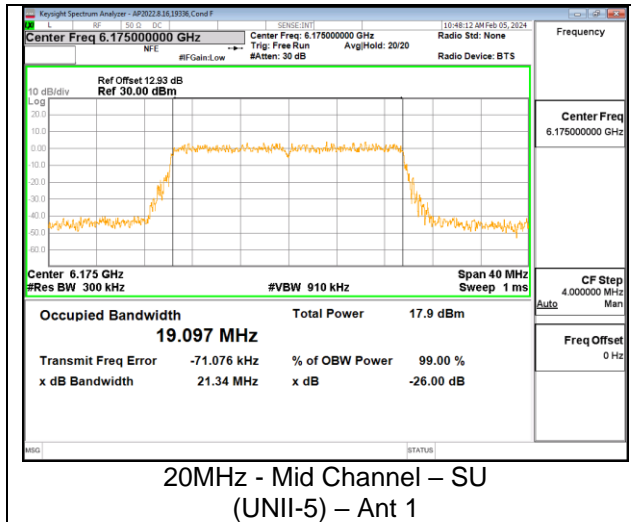
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

The plots in these sections are for reference settings only for different bandwidth and different antenna ports.

The tests performed on this device show that both 99% and 26dB bandwidths are less than 320 MHz. for all supported channel bandwidths.

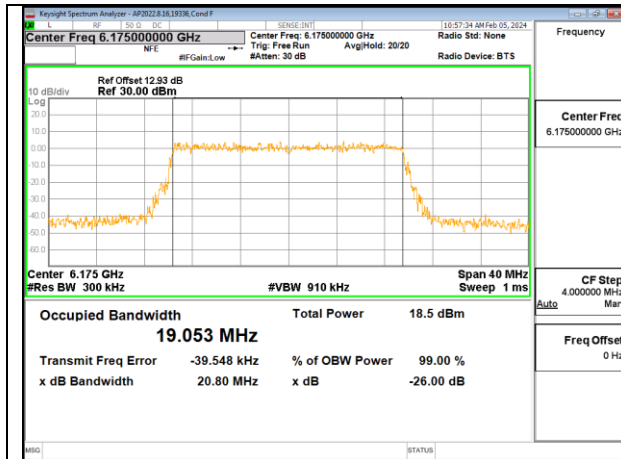
9.2.1. 802.11be SISO MODE IN THE UNII-5 BAND

UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20 MHz	5955	1	SU	--	21.03	21.33	19.0660	19.0000
			MRU106+26T	82	20.65	21.17	18.1250	17.8870
				83	21.39	21.59	18.0960	18.1300
	6175	45	SU	--	21.34	21.21	19.0970	19.0720
			MRU106+26T	82	21.30	21.29	17.7050	18.1380
				83	21.32	21.19	18.3030	18.2800
	6415	93	SU	--	21.43	21.16	19.0490	19.0470
			MRU106+26T	82	21.05	21.21	18.1490	18.1610
				83	21.48	21.09	18.2670	18.1600
40 MHz	5965	3	SU	--	40.14	39.97	37.6460	39.6730
			MRU106+26T	82	23.97	24.12	17.8120	17.7040
				--	--	--	--	--
				85	22.92	23.21	17.8600	17.8000
	6165	43	SU	--	40.12	40.02	37.6710	37.6650
			MRU106+26T	82	24.35	21.96	17.7980	17.7520
				84	28.80	28.31	19.6720	19.2460
				85	23.75	22.80	17.8940	17.9320
	6405	91	SU	--	40.06	40.11	37.6550	37.6720
			MRU106+26T	82	24.98	23.40	17.6430	17.8620
				--	--	--	--	--
				85	22.05	23.03	17.8400	17.9380
80MHz	5985	7	SU	--	81.78	81.49	77.4280	77.3180
			52T	37	19.61	18.86	17.9630	17.0720
				--	--	--	--	--
				52	22.18	20.89	18.2510	18.3370
	6145	39	SU	--	82.33	81.70	77.2530	77.3610
			52T	37	19.61	19.70	17.2500	18.1130
				45	24.16	22.63	20.7130	20.3410
				52	22.19	22.93	18.3390	18.1810
	6385	87	SU	--	82.21	81.45	77.2910	77.3790
			52T	37	19.77	19.31	18.1460	18.0270
				--	--	--	--	--
				52	22.35	21.36	18.2060	18.1310
160MHz	6025	15	SU	--	165.80	166.80	156.7500	157.2600
			484T	65	58.40	57.43	39.2840	39.0790
				S66	47.11	60.60	40.1070	39.4700
	6185	47	SU	--	165.50	164.60	157.1600	156.8000
			484T	65	58.81	50.87	38.9890	38.9500
				S66	61.85	63.13	39.8770	40.4990
	6345	79	SU	--	163.40	164.30	156.7100	156.9100
			484T	65	55.00	38.97	39.2070	54.5700
				S66	52.64	58.36	39.5500	40.0250

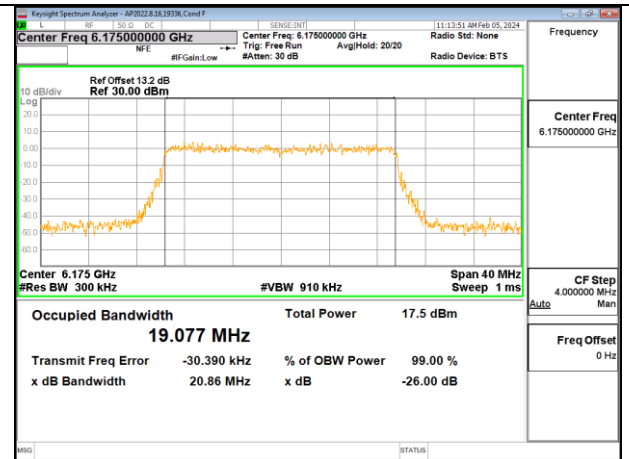


9.2.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND

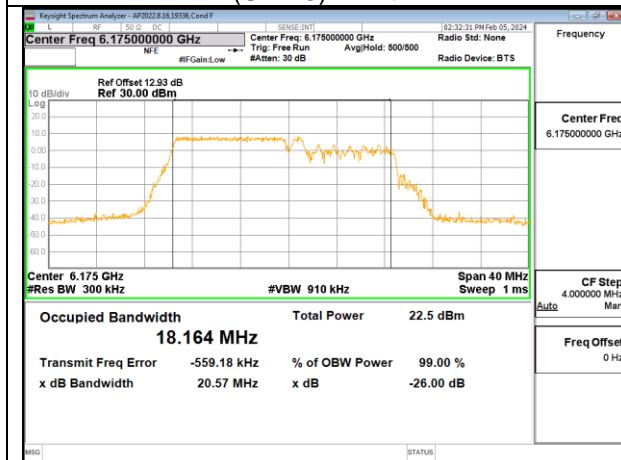
UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20 MHz	5955	1	SU	--	20.86	20.79	19.1120	19.0340	
			MRU106+26T	82	20.77	19.87	18.1260	17.0700	
				83	20.70	21.10	18.2080	18.0310	
	6175	45	SU	--	20.80	20.86	19.0530	19.0770	
			MRU106+26T	82	20.57	19.91	18.1640	18.0730	
				83	20.92	20.30	18.2710	18.0690	
	6415	93	SU	--	20.98	21.00	19.0820	19.0600	
			MRU106+26T	82	21.06	19.98	18.0470	18.0860	
				83	21.50	20.32	18.2210	18.0820	
40 MHz	5965	3	SU	--	40.05	40.13	37.6750	37.5980	
			MRU106+26T	82	23.66	19.73	17.7080	17.7620	
				--	--	--	--	--	
				82	23.46	19.15	17.9690	17.6450	
			6165	43	SU	--	40.04	40.11	37.6580
	MRU106+26T	82			24.05	20.58	17.7740	17.7490	
		84			27.34	25.18	19.4280	19.0460	
		85			23.97	19.22	17.9010	17.6880	
	6405	91	SU	--	39.91	39.87	37.6270	37.6780	
			MRU106+26T	82	22.99	19.33	17.4080	17.7450	
				--	--	--	--	--	
				85	23.79	19.65	17.0050	17.6360	
				SU	--	81.06	80.24	77.1460	77.3160
				37	18.77	19.48	17.0990	17.9450	
	52	--	--	--	--				
80MHz	5985	7	52T	--	21.81	19.35	18.0600	17.8470	
			SU	--	80.30	81.08	77.3510	77.3490	
			37	19.96	19.77	18.0950	17.6400		
	6145	39	52T	45	24.54	22.78	20.8730	19.9380	
			52	22.30	19.39	17.5950	17.7280		
			SU	--	81.47	81.33	77.1510	77.3580	
	6385	87	52T	37	19.44	19.60	17.0410	17.8250	
			--	--	--	--	--		
			52	23.01	19.52	18.3340	17.8360		
			SU	--	165.10	164.20	156.9100	156.8500	
160MHz	6025	15	484T	65	54.72	53.36	39.3110	38.8350	
			S66	72.60	51.17	41.0070	39.1970		
			SU	--	164.70	162.80	156.9400	156.9300	
	6185	47	484T	65	55.76	48.96	39.5070	38.8210	
			S66	62.54	53.41	40.7640	39.2250		
			SU	--	163.70	162.70	156.9800	156.9500	
	6345	79	484T	65	50.70	50.82	39.3070	38.8030	
			S66	69.94	51.84	40.4820	38.8800		



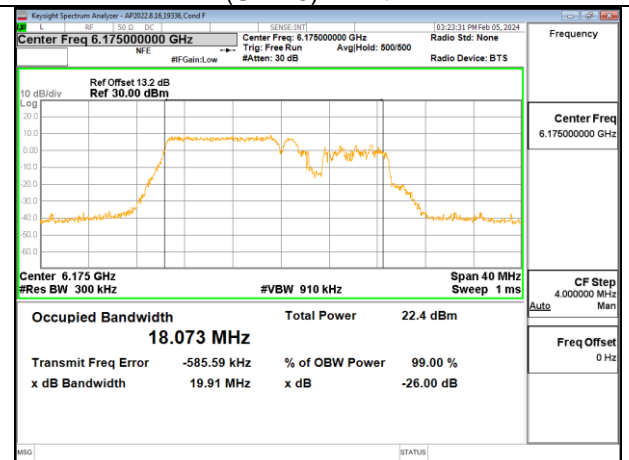
20MHz - Mid Channel – SU
(UNII-5) – Ant 1



20MHz - Mid Channel – SU
(UNII-5) – Ant 2



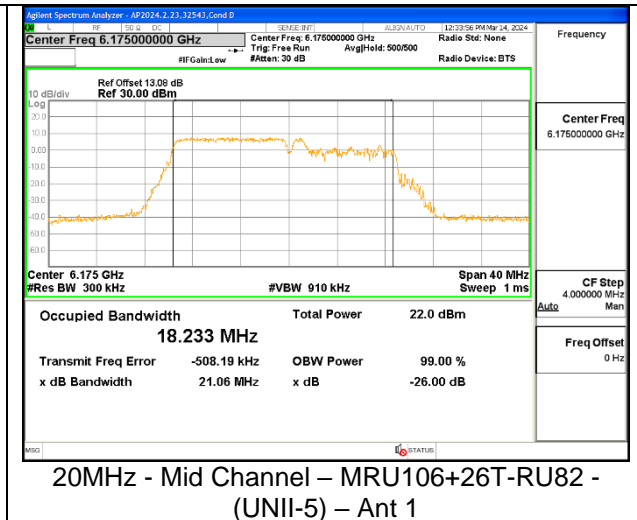
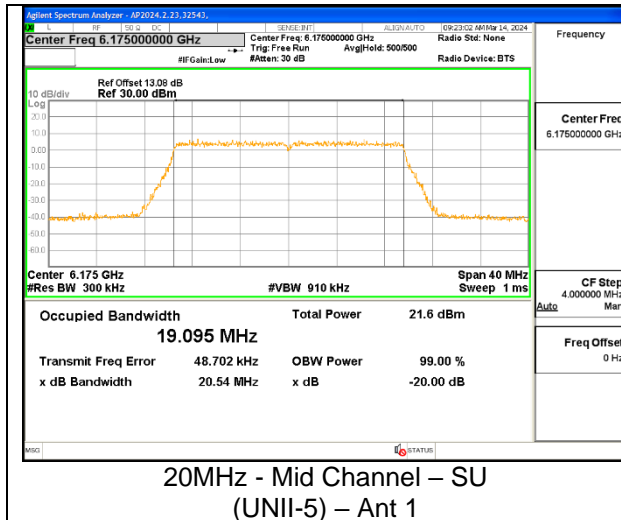
20MHz - Mid Channel – MRU106+26T-RU82
(UNII-5) – Ant 1



20MHz - Mid Channel – MRU106+26T-RU82
(UNII-5) – Ant 2

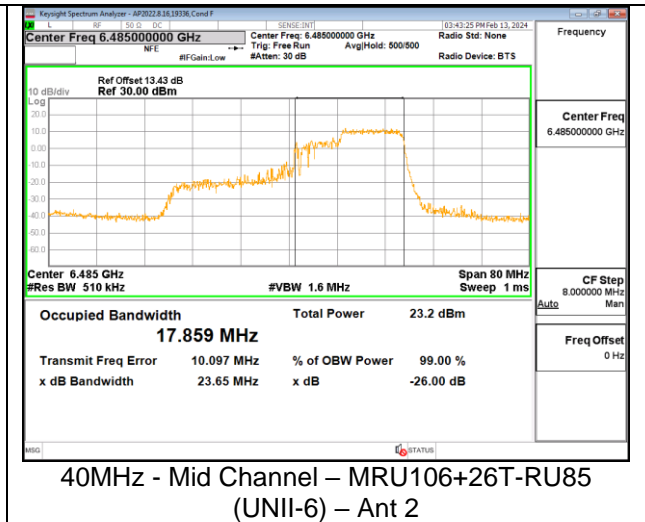
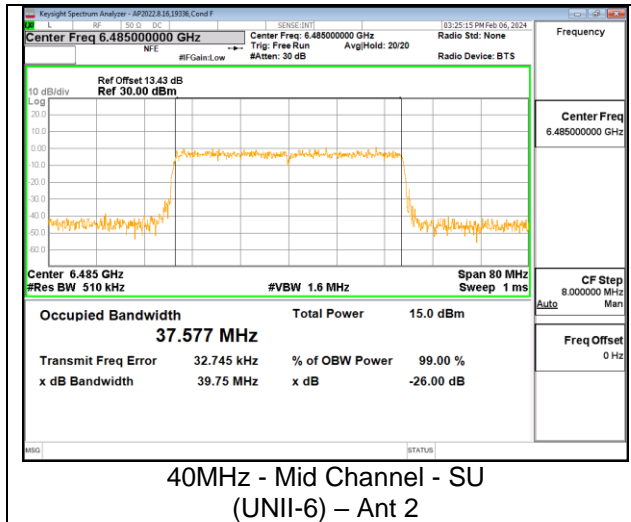
9.2.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND

UNII-5 (MIMO SDM)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20 MHz	5955	1	SU	--	20.66	20.68	19.1430	19.0950	
			MRU106+26T	82	21.07	19.37	18.1780	17.9970	
				83	21.24	18.94	18.2290	17.7120	
	6175	45	SU	--	20.54	20.72	19.0950	19.0760	
			MRU106+26T	82	21.06	18.68	18.2330	17.6620	
				83	21.19	19.51	18.0980	18.0610	
	6415	93	SU	--	20.73	20.45	19.1240	19.1060	
			MRU106+26T	82	19.38	19.42	18.1800	18.1640	
				83	20.24	19.39	18.2430	18.1550	
40 MHz	5965	3	SU	--	39.28	39.26	37.5930	37.6150	
			MRU106+26T	82	18.87	18.70	17.8370	17.6520	
				--	--	--	--	--	
				85	19.23	18.75	17.8330	17.6640	
			6165	43	SU	--	39.38	39.31	37.7220
	MRU106+26T	82			18.77	18.66	17.7560	17.5620	
		84			22.48	19.24	19.4260	18.3170	
		85			19.38	18.69	17.9720	17.7120	
	6405	91	SU	--	39.32	39.37	37.6810	37.7010	
			MRU106+26T	82	18.77	18.83	17.7900	17.7780	
				--	--	--	--	--	
				85	19.82	18.74	17.9010	17.6620	
				SU	--	80.01	80.06	77.3060	77.2540
				52T	37	19.96	18.76	18.1390	17.8050
	--	--	--		--	--			
52	22.19	18.53	18.2380		17.8740				
80MHz	6145	39	SU	--	80.21	80.10	77.2790	77.3260	
			52T	37	19.84	19.06	18.1100	17.9160	
				45	22.65	19.68	20.3580	19.6800	
				52	21.65	19.05	18.3750	17.9470	
			6385	87	SU	--	79.98	80.29	77.2210
	52T	37			19.78	18.86	17.9370	18.0020	
		--	--	--	--	--			
52		20.08	18.91	18.1580	18.0150				
160MHz	6025	15	SU	--	162.00	162.00	157.0900	157.1000	
			484T	65	51.04	54.45	39.0670	38.7810	
				S66	74.56	54.43	40.8580	38.9170	
	6185	47	SU	--	162.20	164.30	157.2000	156.7700	
			484T	65	57.57	56.27	39.2120	38.9720	
				S66	66.47	50.34	40.6940	38.9670	
	6345	79	SU	--	162.50	163.70	157.1000	157.2200	
			484T	65	54.17	48.14	38.9110	38.7510	
				S66	72.23	48.52	40.4420	38.8170	



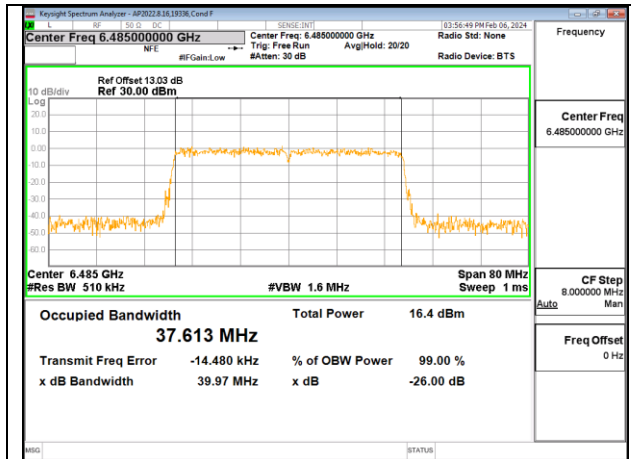
9.2.4. 802.11be SISO MODE IN THE UNII-6 BAND

UNII-6 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6435	97	SU	--	21.33	21.01	19.1200	19.0800
			MRU106+26	82	21.28	20.92	18.1220	18.1530
				83	21.24	21.41	18.2720	18.3470
	6475	105	SU	--	20.98	21.26	19.0260	19.1140
			MRU106+26	82	21.11	20.95	18.1660	18.1360
				83	21.46	21.25	17.8830	18.2940
	6515	113	SU	--	21.39	21.19	19.0260	19.0240
			MRU106+26	82	21.17	21.09	17.7680	18.1360
				83	21.50	21.50	18.2130	18.1910
40MHz	6445	99	SU	--	39.92	39.65	37.7170	37.6900
			MRU106+26T	82	20.97	22.57	17.7520	17.7950
				--	--	--	--	--
				85	24.57	24.20	17.8120	17.8050
	6485	107	SU	--	39.71	39.75	37.6650	37.5770
			MRU106+26T	82	24.12	23.67	17.8080	17.7990
				84	28.83	26.45	19.4990	19.5330
				85	25.78	23.65	17.7990	17.8590
	6525 (Straddle)	115	SU	--	39.49	39.21	37.5800	37.6620
			MRU106+26T	82	21.25	23.00	17.7260	17.8440
				--	--	--	--	--
				85	24.16	22.76	18.0220	17.9370
80MHz	6465	103	SU	--	81.44	80.54	77.3290	77.4630
			52T	37	20.00	19.54	18.0690	17.7170
				45	23.90	23.45	20.6810	19.5590
				52	20.71	19.43	18.2460	17.8830
160MHz	6505 (Straddle)	111	SU	--	164.20	162.70	156.8800	156.9500
			484T	65	60.39	53.12	39.1500	38.8880
				S66	61.03	66.96	40.8190	40.5670

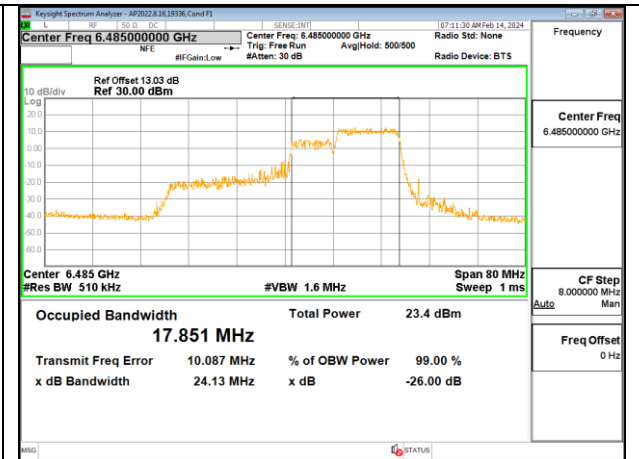


9.2.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND

UNII-6 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6435	97	SU	--	21.81	21.34	19.0200	19.0340
			MRU106+26T	82	21.02	19.87	18.0140	18.0190
				83	21.24	20.35	18.2420	18.0100
	6475	105	SU	--	21.13	20.93	19.0030	18.9980
			MRU106+26T	82	21.15	20.05	17.8770	17.3140
				83	21.09	20.57	18.1740	18.0770
	6515	113	SU	--	21.13	21.50	19.0210	19.0510
			MRU106+26T	82	20.90	19.85	18.1900	17.8750
				83	21.47	20.02	18.2240	18.0110
40MHz	6445	99	SU	--	39.67	39.56	37.6800	37.5910
			MRU106+26T	82	20.94	20.29	17.7120	17.6620
				--	--	--	--	--
	6485	107	SU	--	39.97	40.16	37.6130	37.7200
			MRU106+26T	82	22.18	19.48	17.7820	17.7270
				84	27.54	25.18	19.3190	18.9370
	6525 (Straddle)	115	SU	85	24.13	19.21	17.8510	17.6230
				82	39.41	39.32	37.6190	37.5480
			MRU106+26T	82	24.37	19.32	17.7400	17.5780
				--	--	--	--	--
			85	23.49	19.59	18.0490	17.6130	
			82	80.67	80.97	77.2110	77.4210	
80MHz	6465	103	SU	--	80.67	80.97	77.2110	77.4210
			52T	37	19.86	19.70	18.1100	18.0030
				45	23.20	22.78	20.4030	19.5590
				52	22.94	19.26	18.2000	17.5680
160MHz	6505 (Straddle)	111	SU	--	164.70	164.90	157.0900	156.8800
			484T	65	47.92	54.35	38.9370	38.8110
				S66	66.79	49.20	41.7090	38.8780



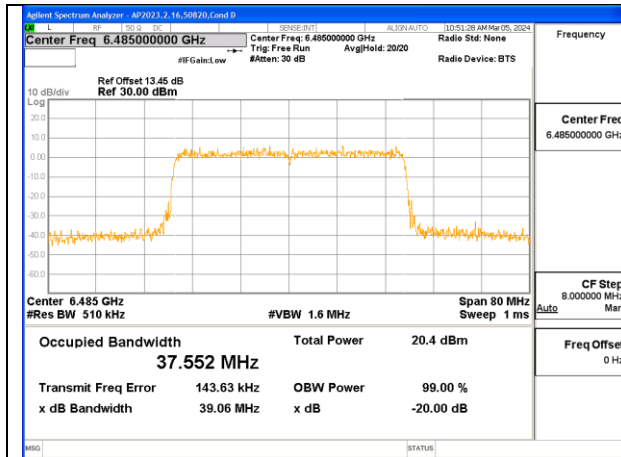
40MHz - Mid Channel - SU
(UNII-6) – Ant 1



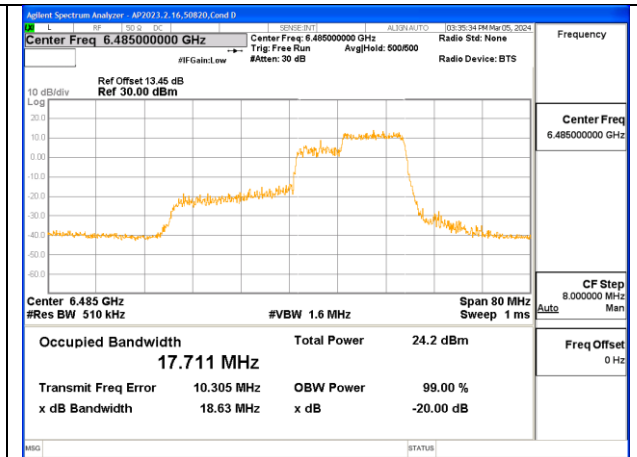
40MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 1

9.2.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND

UNII-6 (MIMO SDM)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6435	97	SU	--	20.63	20.62	19.1260	19.1050
			MRU106+26T	82	19.48	19.20	18.1660	18.1500
				83	19.80	19.47	18.0440	17.9860
	6475	105	SU	--	20.39	20.13	19.0460	19.0640
			MRU106+26T	82	18.54	18.60	17.4370	17.8060
				83	19.99	19.34	17.9240	18.0080
	6515	113	SU	--	20.17	20.05	19.0370	19.0320
			MRU106+26T	82	19.32	19.36	18.1020	18.1340
				83	20.01	19.30	17.9600	18.0890
40MHz	6445	99	SU	--	39.06	39.31	37.6380	37.6830
			MRU106+26T	82	18.53	18.76	17.6950	17.7400
				--	--	--	--	--
	6485	107	SU	--	39.04	39.06	37.5680	37.5520
			MRU106+26T	82	18.78	18.79	17.8460	17.7080
				84	20.39	20.59	19.5510	18.9470
	6525 (Straddle)	115	SU	--	38.91	39.12	37.6410	37.6010
			MRU106+26T	82	18.72	18.41	17.7960	17.4760
				--	--	--	--	--
80MHz	6465	103	SU	--	79.82	79.65	77.2880	77.3930
			52T	37	18.95	18.79	18.0730	18.0360
				45	20.72	19.92	20.4530	19.6650
52	18.64	18.85		17.9270	17.9390			
160MHz	6505 (Straddle)	111	SU	--	161.60	161.30	156.6400	156.7400
			484T	65	52.82	52.75	38.9060	38.7680
				S66	74.08	49.25	42.8070	38.8040



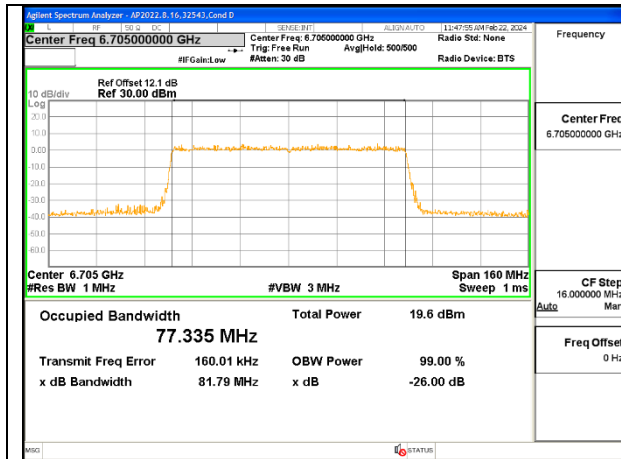
40MHz - Mid Channel - SU
(UNII-6) – Ant 2



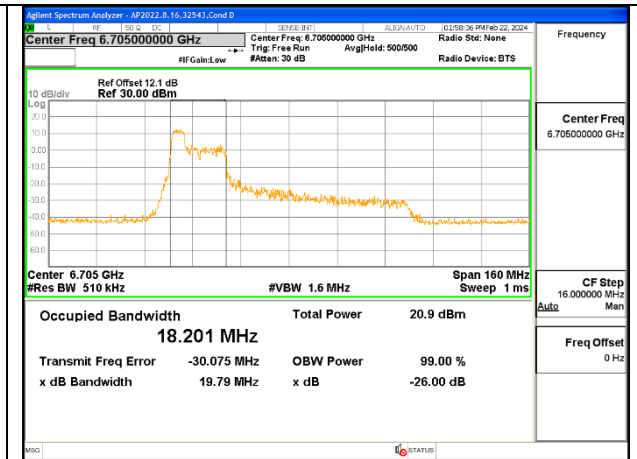
40MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 2

9.2.7. 802.11be SISO MODE IN THE UNII-7 BAND

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)			
					Ant 1	Ant 2	Ant 1	Ant 2		
20MHz	6535	117	SU	--	21.82	21.82	19.1420	19.0940		
			26T	0	19.69	19.82	17.6620	18.2790		
				--	--	--	--	--		
				8	20.30	20.41	18.5000	18.5030		
	6715	149	SU	--	21.69	21.91	19.1440	19.0980		
			26T	0	19.78	19.80	17.8980	18.4810		
				4	18.63	18.56	17.0460	16.9200		
				8	20.37	20.60	18.4290	18.4400		
	6875 (Straddle)	185	SU	--	21.64	21.66	19.0950	19.1410		
			26T	0	19.73	19.83	18.3600	18.3890		
				--	--	--	--	--		
				8	20.21	20.31	18.4460	18.3570		
40MHz	6565	123	SU	--	39.81	40.41	37.6440	37.6520		
			MRU106+26T	82	21.14	24.33	17.7650	17.8450		
				85	23.40	24.11	17.9260	18.2450		
	6685	147	SU	--	40.05	40.19	37.6490	37.6680		
			MRU106+26T	82	23.68	23.04	17.5880	17.8470		
				84	27.97	28.50	19.6420	20.5770		
	6845	179	SU	--	39.97	40.45	37.6610	37.7430		
				82	24.37	22.99	17.7510	17.8460		
			MRU106+26T	--	--	--	--	--		
				85	25.66	24.01	17.9540	18.0070		
			6545 (Straddle)	119	SU	--	86.34	82.09	77.5790	77.3540
						37	19.86	20.00	18.0880	18.1810
52T	--	--			--	--	--			
	52	22.29			21.84	18.4030	17.8640			
6705	151	SU			--	81.79	82.28	77.3350	77.4050	
					37	19.79	19.54	18.2010	18.0510	
		52T	45	22.45	24.54	20.6930	20.3480			
6865 (Straddle)	183	SU	--	85.22	90.18	77.5170	77.5200			
			37	19.48	19.69	18.0570	18.0170			
		52T	--	--	--	--	--			
			52	23.12	19.69	18.2910	17.9860			
160MHz	6665	143	SU	--	165.40	165.90	157.2200	157.2800		
			484T	65	59.94	60.22	40.4700	40.9860		
				S66	68.98	68.51	44.4730	44.4730		
	6825 (Straddle)	175	SU	--	165.80	167.50	157.2600	157.2600		
			484T	65	57.11	52.91	39.7990	40.1490		
				S66	61.66	68.35	42.6940	43.0970		



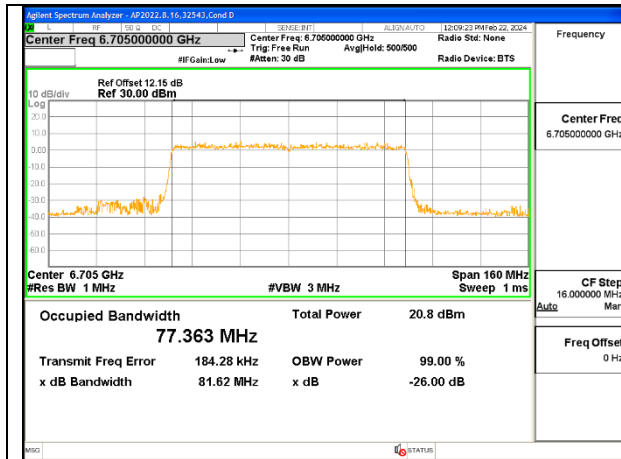
80MHz - Mid Channel - SU
(UNII-7) – Ant 1



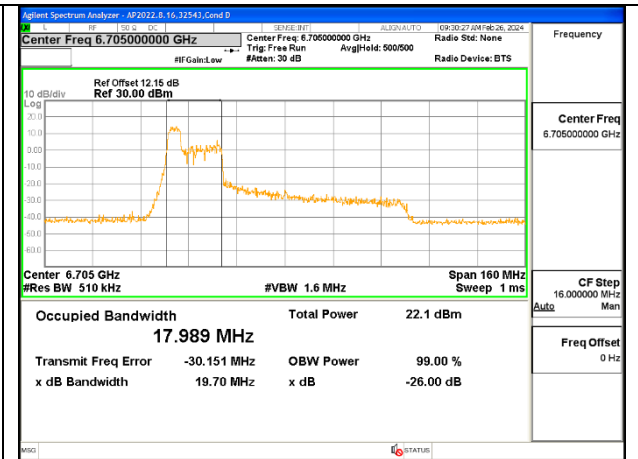
80MHz - Mid Channel – 52T-RU37
(UNII-7) – Ant 1

9.2.8. 802.11be MIMO CDD MODE IN THE UNII-7 BAND

UNII-7 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6535	117	SU	--	21.84	21.42	19.1040	19.0420	
			26T	0	19.73	19.77	18.3300	18.3060	
				8	19.78	19.65	18.0140	18.2060	
	6715	149	SU	--	21.98	21.55	19.0910	19.1110	
			26T	0	19.36	19.71	18.2740	18.4390	
				4	18.71	18.28	16.9590	16.9410	
	6875 (Straddle)	185	26T	8	20.21	19.81	18.5130	18.4810	
				SU	--	21.75	21.68	19.0810	19.1080
				0	19.95	20.02	18.3870	18.3620	
	40MHz	6565	123	SU	--	40.39	40.14	37.6110	37.6160
				MRU106+26T	82	22.95	20.14	17.6810	17.6220
					85	25.29	19.90	18.0240	17.7980
6685		147	SU	--	40.31	39.89	37.6810	37.6720	
			MRU106+26T	82	24.45	19.40	17.8170	17.6860	
				84	25.91	25.03	19.6540	18.7650	
6845		179	MRU106+26T	85	23.22	19.45	17.1370	17.7580	
				SU	--	40.10	40.01	37.6530	37.6220
				82	24.10	19.38	17.7040	17.7960	
80MHz		6545 (Straddle)	119	SU	--	81.59	81.76	77.3110	77.3310
				52T	37	19.52	19.40	17.8790	17.9260
					52	23.13	19.54	18.1990	17.9160
	6705	151	SU	--	81.82	81.62	77.3940	77.3630	
			52T	37	20.00	19.70	18.1620	17.9890	
				45	24.92	23.65	20.9540	20.0060	
	6865 (Straddle)	183	52T	52	21.14	19.96	18.1050	17.8760	
				SU	--	81.78	81.43	77.3090	77.4130
				37	20.13	19.54	18.0490	17.8930	
	160MHz	6665	143	SU	--	166.60	171.10	157.2800	157.4600
				484T	65	62.31	49.75	40.7570	39.3260
					S66	70.18	56.57	46.9870	40.3820
6825 (Straddle)		175	SU	--	166.30	164.10	157.1500	157.2100	
			484T	65	47.92	54.35	38.9370	38.8110	
				S66	66.79	49.20	41.7090	38.8780	



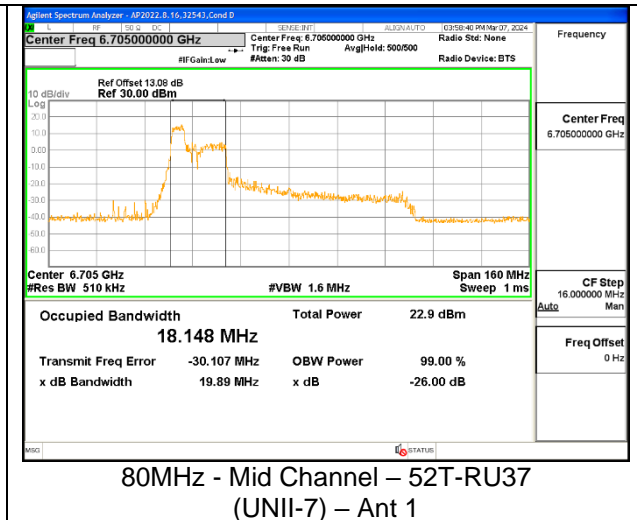
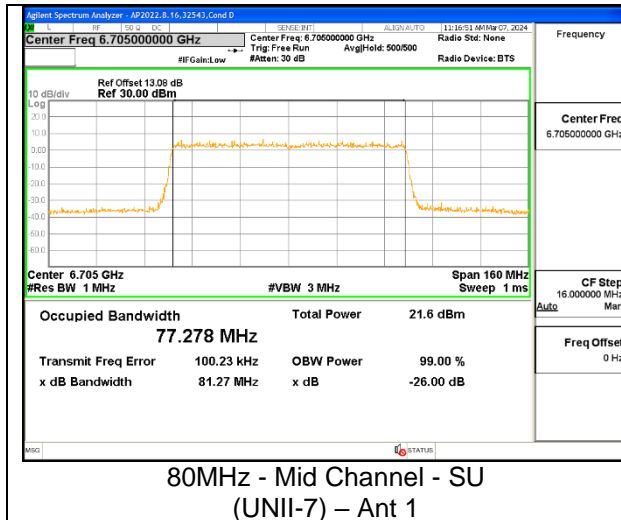
80MHz - Mid Channel - SU
(UNII-7) – Ant 2



80MHz - Mid Channel – 52T-RU37
(UNII-7) – Ant 2

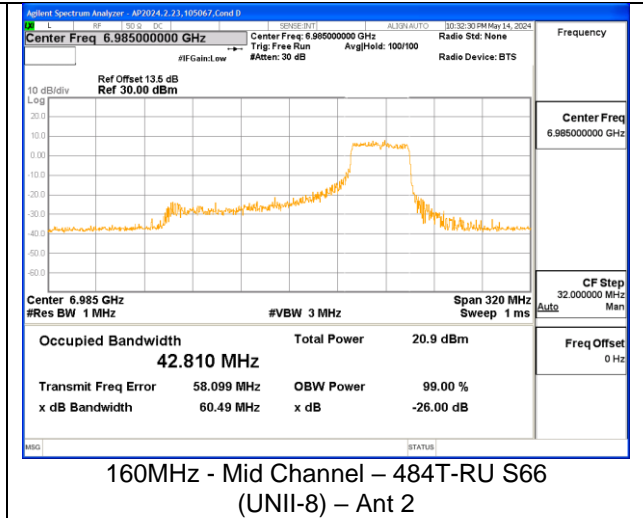
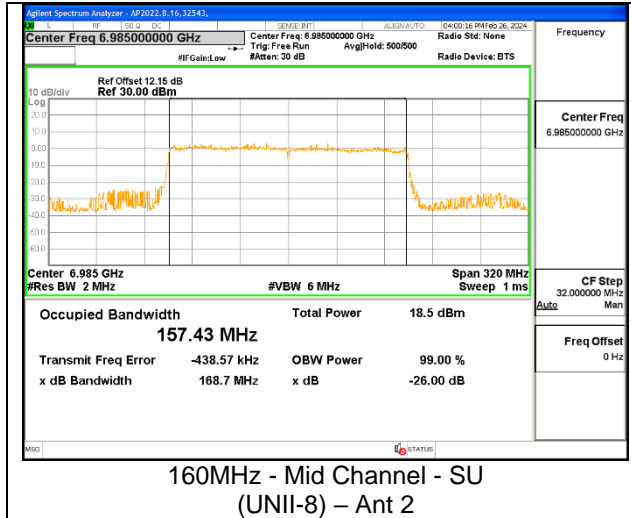
9.2.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND

UNII-7 (MIMO SDM)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6535	117	SU	--	21.77	21.38	19.0950	19.1260	
			26T	0	19.96	19.88	18.3930	17.6840	
				8	20.24	19.81	18.3950	18.3320	
	6715	149	SU	--	21.67	21.52	19.1060	19.1150	
			26T	0	19.93	19.74	18.3380	18.2730	
				4	18.12	18.06	16.7980	16.8240	
	6875 (Straddle)	185	26T	SU	--	21.63	21.79	19.1100	19.1260
				0	19.69	19.67	18.3700	18.3790	
				8	20.10	19.65	18.3580	18.2210	
	40MHz	6565	123	SU	--	40.06	39.73	37.7630	37.6620
				MRU106+26T	82	22.29	20.30	17.8130	17.7300
					85	24.92	19.34	17.9130	17.1790
6685		147	SU	--	39.98	39.93	37.6180	37.5580	
			MRU106+26T	82	25.13	19.25	17.7930	17.4720	
				84	26.80	26.33	19.5040	18.8250	
6845		179	MRU106+26T	SU	--	40.23	39.77	37.6540	37.6410
				82	21.11	19.21	17.7440	17.7280	
				85	23.61	19.21	17.8100	17.6530	
80MHz		6545 (Straddle)	119	SU	--	81.37	81.29	77.4080	77.4290
				52T	37	20.25	19.54	18.1810	18.0210
					52	22.18	19.52	18.2010	17.9760
	6705	151	SU	--	81.27	81.11	77.2780	77.2380	
			52T	37	19.89	19.73	18.1480	17.9550	
				45	23.27	22.68	20.7390	19.4890	
	6865 (Straddle)	183	52T	SU	--	81.79	81.19	77.2620	77.4040
				37	19.67	19.70	17.9950	17.9280	
				52	21.45	19.76	18.1080	17.9450	
	160MHz	6665	143	SU	--	165.10	164.60	157.1900	156.9700
				484T	65	50.81	47.89	39.3030	38.8410
					S66	65.82	50.54	39.9490	38.8400
6825 (Straddle)		175	SU	--	165.80	164.70	157.1600	157.3700	
			484T	65	51.94	46.66	38.9910	38.7510	
				S66	55.82	52.69	41.4650	38.8130	



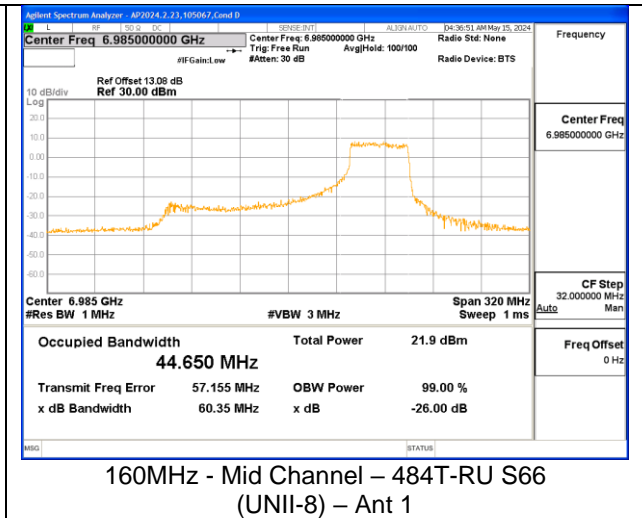
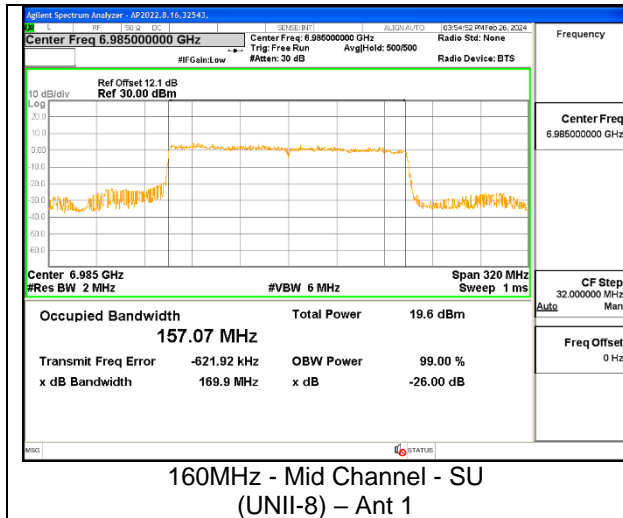
9.2.10. 802.11be SISO MODE IN THE UNII-8 BAND

UNII-8 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6895	189	SU	--	21.71	21.52	19.1660	19.0370	
			MRU106+26T	82	21.21	21.10	18.2430	18.0070	
				83	21.53	21.43	18.2950	18.2110	
	6995	209	SU	--	22.07	21.59	19.1040	19.0620	
			MRU106+26T	82	21.08	20.52	18.2270	18.1630	
				83	21.62	21.17	18.3290	18.2640	
	7095	229	SU	--	21.88	21.70	19.1590	19.0860	
			MRU106+26T	82	21.13	21.20	17.7510	17.7450	
				83	21.47	21.27	17.9700	18.1410	
	7115	233	SU	--	21.83	21.62	19.1380	19.0480	
	40MHz	6885 (Straddle)	187	SU	--	39.79	39.73	37.6160	37.6820
				MRU106+26T	82	22.87	23.10	17.7930	17.8630
85					24.36	24.21	18.0230	17.9070	
--					--	--	--	--	
6965		203	SU	--	39.76	39.68	37.6070	37.6640	
			MRU106+26T	82	23.75	22.45	17.7730	17.8040	
				84	28.87	25.94	19.3920	19.6570	
				85	25.74	22.82	18.0130	17.8710	
7085		227	SU	--	39.55	39.59	37.5460	37.5830	
			MRU106+26T	82	22.42	23.43	17.7520	17.7840	
				--	--	--	--	--	
				85	24.10	25.65	18.0430	17.7840	
80MHz	6945	199	SU	--	81.83	82.21	77.3970	77.4090	
			484T	65	60.77	53.63	38.8670	38.9390	
				66	64.20	64.61	39.7160	39.5460	
	7025	215	SU	--	81.79	80.78	77.3870	77.1840	
			484T	65	54.47	55.21	37.7270	38.7790	
				66	66.21	66.50	39.9920	39.7700	
160MHz	6985	207	SU	--	168.70	168.70	157.2500	157.4300	
			484T	65	53.61	55.05	39.6790	39.7370	
				566	63.78	60.49	45.3580	42.8100	



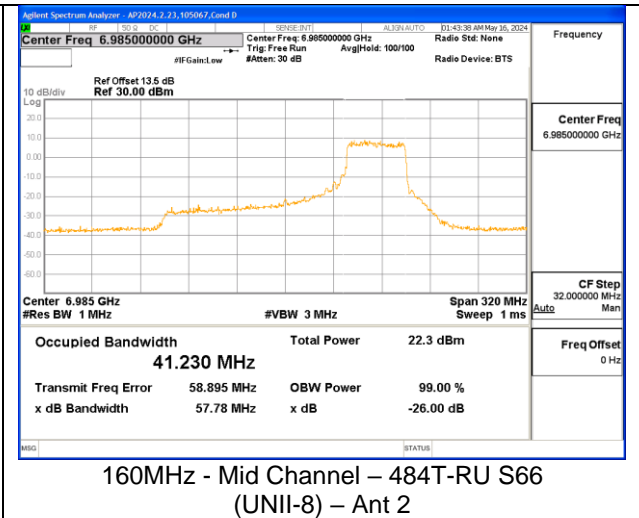
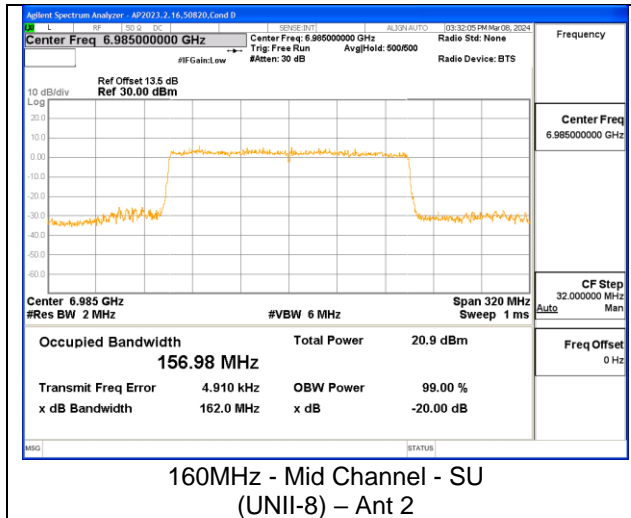
9.2.11. 802.11be MIMO CDD MODE IN THE UNII-8 BAND

UNII-8 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6895	189	SU	--	21.50	21.48	19.0300	19.0820	
			MRU106+26T	82	21.03	19.89	18.1110	18.0760	
				83	21.28	20.44	18.2140	17.9000	
	6995	209	SU	--	21.58	21.39	19.0460	19.1240	
			MRU106+26T	82	21.12	20.10	18.1180	17.9490	
				83	20.98	20.43	18.2100	18.0430	
	7095	229	SU	--	21.39	21.45	19.0630	19.1190	
			MRU106+26T	82	21.16	20.05	18.0380	18.2130	
				83	20.10	20.63	18.3180	18.1070	
	7115	233	SU	--	21.63	21.64	19.0370	19.0990	
	40MHz	6885 (Straddle)	187	SU	--	40.02	39.57	37.6760	37.6920
				MRU106+26T	82	24.03	19.45	17.7440	17.7070
85					24.41	19.25	17.7960	17.6910	
6965		203	SU	--	39.64	39.62	37.5650	37.5680	
			MRU106+26T	82	23.45	19.25	17.7130	17.7340	
				84	26.36	26.17	19.5110	19.1450	
7085		227	SU	--	39.65	39.88	37.6870	37.6090	
			MRU106+26T	82	23.50	19.37	17.4090	16.9660	
				85	24.39	20.36	17.9200	17.7270	
80MHz		6945	199	SU	--	81.16	80.78	77.4080	77.1920
				484T	65	60.32	58.77	40.9570	40.4520
					66	73.53	51.28	42.9700	38.7900
	7025	215	SU	--	82.45	81.05	77.3610	77.4660	
			484T	65	57.91	53.15	39.7710	38.5830	
				66	68.68	55.14	43.1650	38.4600	
160MHz	6985	207	SU	--	169.90	167.80	157.0700	157.2900	
			484T	65	57.25	53.33	39.8400	39.0880	
				S66	60.35	55.31	44.6500	40.2800	



9.2.12. 802.11be MIMO SDM MODE IN THE UNII-8 BAND

UNII-8 (MIMO SDM)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6895	189	SU	--	20.90	20.80	19.1800	19.1220	
			MRU106+26T	82	19.36	19.51	17.7390	18.1790	
				83	20.07	19.24	18.2250	17.7150	
	6995	209	SU	--	20.89	20.81	19.1370	19.1550	
			MRU106+26T	82	19.52	19.29	18.1560	18.1570	
				83	19.53	19.56	18.2170	18.1600	
	7095	229	SU	--	21.06	20.66	19.1440	19.1570	
			MRU106+26T	82	19.36	18.84	18.0930	17.5600	
				83	20.12	19.33	18.2750	18.1930	
	7115	233	SU	--	21.05	20.52	19.1050	19.1510	
	40MHz	6885 (Straddle)	187	SU	--	39.33	39.29	37.6940	37.6910
				MRU106+26T	82	18.96	18.70	17.8580	17.7290
85					19.81	18.91	18.0010	17.5530	
6965		203	SU	--	39.36	39.23	37.6660	37.7040	
			MRU106+26T	82	18.80	18.79	17.7070	17.7100	
				84	20.97	20.18	19.6580	18.8510	
7085		227	SU	--	39.42	39.26	37.7130	37.6830	
			MRU106+26T	82	18.88	18.68	17.7340	17.7190	
				--	--	--	--	--	
85		19.76	18.73	18.0030	17.6950				
80MHz		6945	199	SU	--	80.25	80.23	77.3280	77.3170
				484T	65	59.80	51.85	39.2870	38.6190
	66				63.78	56.28	41.0090	38.7360	
	7025	215	SU	--	80.31	80.07	77.2310	77.4110	
			484T	65	53.34	48.42	38.7950	38.6460	
				66	62.12	56.73	41.3000	39.4150	
160MHz	6985	207	SU	--	162.20	162.00	157.1700	156.9800	
			484T	65	52.65	54.48	39.3070	39.0000	
				S66	50.60	57.78	38.9580	41.2300	



9.3. SP 26 dB AND 99% BANDWIDTH

LIMITS

§15.407 (a) (11)

The maximum bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz. KDB 987594 D03 U-NII 6 GHz QA v02, modified by FCC TCB Workshop Presentation Review of TCB PAG Submissions - October 2023, allows the maximum bandwidths to be defined by either the 26dB bandwidth or the 99% bandwidth for a 320 MHz nominal channel bandwidth and by the 26dB bandwidth for all other nominal channel bandwidths. The KDB requires that the test report show the 99% and 26 dB bandwidth for all the nominal channel bandwidths used by the device.

PROCEDURE

ANSI C63.10: 2013 §6.9

Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	510kHz/1.6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

ID:	32543	Date:	5/16/2024
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For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

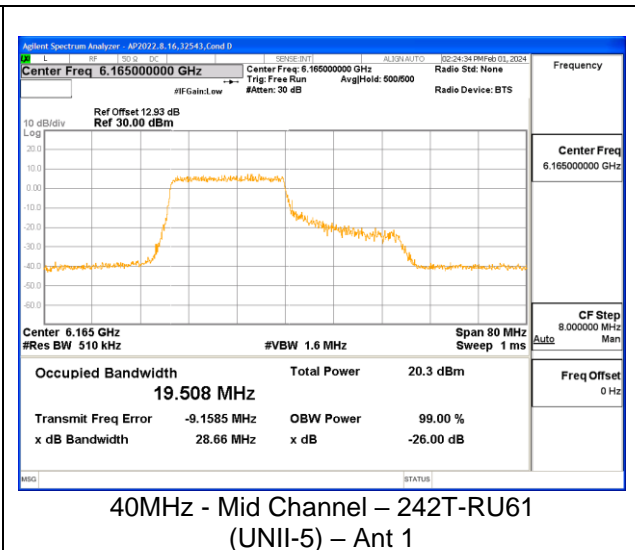
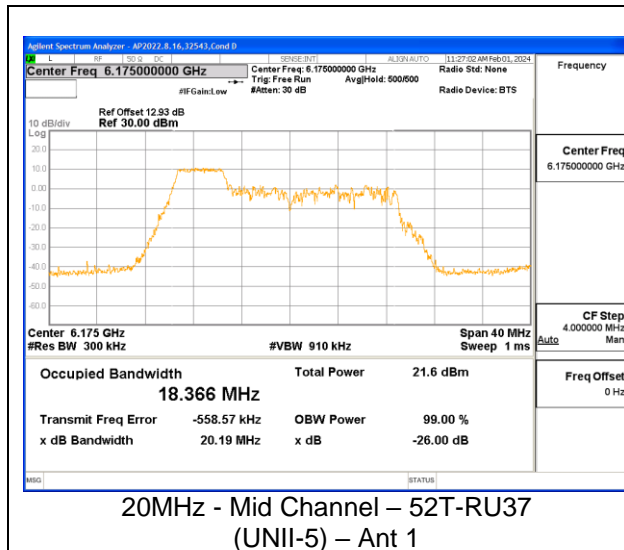
The data in these sections follow the same testing parameters used for LP and SP modes bandwidth tests, therefore, for test setting please refer to LP mode bandwidth test plots.

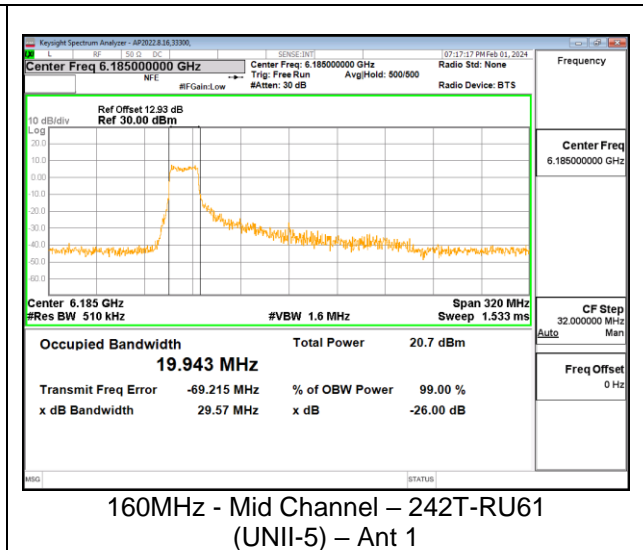
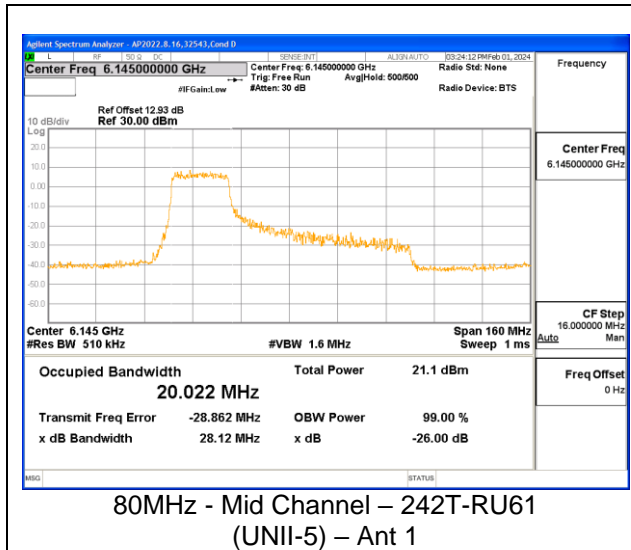
Only additional 20MHz 52T, 40MHz 242T, 80MHz 242T, and 160MHz 242T test plots are added in this section.

The tests performed on this device show that both 99% and 26dB bandwidths are less than 320 MHz. for all supported channel bandwidths.

9.3.1. 802.11be SISO MODE IN THE UNII-5 BAND

UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20 MHz	5955	1	SU	--	21.72	21.38	19.0780	18.9430	
			52T	37	19.91	20.02	18.2100	18.0760	
			52T	--	--	--	--	--	
	6175	45	SU	--	21.64	26.69	19.1060	19.1510	
			52T	37	20.19	19.97	18.3660	18.3210	
			52T	38	19.68	18.33	17.1490	16.8980	
			52T	40	20.61	20.12	18.2740	18.3140	
			52T	40	20.61	20.12	18.2740	18.3140	
			52T	40	20.61	20.12	18.2740	18.3140	
	6415	93	SU	--	21.77	22.03	19.1160	19.1270	
			52T	37	19.98	20.14	18.3200	18.2690	
			52T	--	--	--	--	--	
40 MHz	5965	3	SU	--	40.27	41.38	37.5720	38.0670	
			242T	61	32.06	30.09	19.6930	19.5510	
			242T	62	29.78	28.02	19.4780	19.6180	
	6165	43	SU	--	39.76	41.39	37.6290	38.0550	
			242T	61	28.66	28.88	19.5080	19.5000	
			242T	62	29.09	30.48	19.4430	19.5150	
	6405	91	SU	--	39.77	41.87	37.7450	38.0840	
			242T	61	34.92	31.68	19.4340	19.2890	
			242T	62	29.01	29.30	19.5010	19.4940	
	80MHz	5985	7	SU	--	80.63	81.09	77.2300	77.2730
				242T	61	30.15	30.47	20.2000	20.4900
				242T	--	--	--	--	--
6145		39	SU	--	29.33	31.30	20.1080	20.1770	
			242T	61	81.42	82.12	77.3280	77.2890	
			242T	61	28.12	28.57	20.0220	19.8610	
			242T	62	37.14	38.43	20.3240	20.2740	
			242T	64	30.89	30.80	20.1960	19.9540	
			242T	64	30.89	30.80	20.1960	19.9540	
6385		87	SU	--	81.75	81.13	77.2590	77.2230	
			242T	61	28.35	30.22	19.9340	20.0900	
			242T	--	--	--	--	--	
160MHz	6025	15	SU	--	164.10	166.10	156.9700	157.2300	
			242T	61	23.31	30.61	20.0170	20.5980	
			242T	--	--	--	--	--	
	6185	47	SU	--	30.40	29.44	20.7380	21.0420	
			242T	61	166.00	165.60	157.1100	156.9900	
			242T	61	29.57	30.48	19.9430	20.3850	
			242T	62	35.68	31.42	20.4720	20.4280	
			242T	S64	31.15	29.14	20.1100	20.8840	
			242T	S64	31.15	29.14	20.1100	20.8840	
	6345	79	SU	--	165.40	164.20	157.0700	157.2000	
			242T	61	27.77	27.95	20.3260	20.1440	
			242T	--	--	--	--	--	
242T	S64	28.30	30.43	20.4980	20.5370				





9.3.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND

UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)			
					Ant 1	Ant 2	Ant 1	Ant 2		
20 MHz	5955	1	SU	--	21.52	26.08	19.0760	19.0870		
			52T	37	19.88	19.71	18.0840	18.2350		
				40	20.87	19.93	18.2880	18.1460		
	6175	45	SU	--	21.50	24.86	19.1070	19.1180		
			52T	37	19.87	20.09	18.2260	18.1770		
				38	19.48	18.45	16.9220	16.8410		
	6415	93	52T	40	20.90	19.91	18.3490	17.9270		
				SU	--	21.72	26.66	19.1360	19.0920	
			37	19.87	19.95	18.3070	18.1080			
	40 MHz	5965	3	242T	--	40.22	40.04	37.5940	38.0120	
					61	32.12	26.99	19.6450	19.3230	
				62	28.70	27.02	19.5320	19.2880		
6165		43	242T	SU	--	39.65	41.31	37.6930	38.0620	
				61	28.55	31.88	19.4860	19.5290		
			62	33.88	28.93	19.4920	19.2860			
6405		91	242T	SU	--	40.09	41.30	37.6790	38.0260	
				61	30.41	26.21	19.5260	19.2260		
			62	28.75	25.86	19.5960	19.2790			
80MHz		5985	7	242T	SU	--	82.00	81.89	77.3020	77.3950
					61	31.34	27.01	20.5230	19.5730	
				64	28.18	27.33	19.8200	19.7270		
	6145	39	242T	SU	--	81.31	81.24	77.3790	77.3340	
				61	29.46	30.52	19.9530	19.5980		
			62	37.07	30.96	20.0000	19.8110			
	6385	87	242T	64	30.59	33.29	20.2590	19.5890		
				SU	--	81.63	81.43	77.2660	77.3700	
			61	28.73	26.54	20.0380	19.4650			
	160MHz	6025	15	242T	--	165.40	165.00	156.9500	157.1200	
					61	30.26	25.40	20.4200	19.6100	
				S64	28.35	26.14	20.0770	19.7380		
6185		47	242T	SU	--	166.50	164.70	157.1100	157.1500	
				61	30.45	28.15	19.9880	19.6050		
			62	33.14	32.74	20.0560	19.8870			
6345		79	242T	S64	29.45	25.51	20.1290	19.7220		
				SU	--	165.20	164.90	157.0800	157.3100	
			61	30.53	27.00	20.1160	19.7210			
S64		28.21	26.08	20.5570	19.7140					

9.3.3. 802.11be SISO MODE IN THE UNII-7 BAND

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6535	117	SU	--	21.49	21.85	19.0410	19.0840	
			52T	37	19.96	19.90	18.3130	18.1030	
				--	--	--	--	--	
				40	20.89	20.74	18.1660	18.3670	
	6715	149	SU	--	21.69	21.63	19.0380	19.0770	
			52T	37	19.99	19.88	18.2720	18.3020	
				38	19.00	19.34	17.1770	16.9590	
				40	20.84	20.41	18.2080	18.2500	
	6855	181	SU	--	21.57	21.66	19.0800	19.0910	
			52T	37	19.81	20.11	18.1730	18.3340	
				--	--	--	--	--	
				40	20.81	20.76	18.3550	18.3160	
40MHz	6565	123	SU	--	40.25	40.29	37.6290	37.6450	
			242T	61	27.57	28.10	19.3920	19.4270	
				62	31.28	30.41	19.5310	19.6060	
	6685	147	SU	--	40.25	40.10	37.6630	37.7240	
			242T	61	31.79	30.30	19.5710	19.4950	
				62	32.42	28.68	19.4930	19.4770	
	6845	179	SU	--	40.06	40.09	37.6910	37.7140	
			242T	61	30.19	30.77	19.4100	19.3380	
				62	33.61	31.70	19.5220	19.5310	
	80MHz (FCC)	6625	135	SU	--	81.34	81.77	77.3730	77.3560
				242T	61	30.74	30.12	20.0020	19.8880
					--	--	--	--	--
64					29.75	30.37	20.1250	20.1200	
80MHz	6705	151	SU	--	82.02	81.84	77.3860	77.3750	
			242T	61	31.74	28.41	20.2480	19.8890	
				62	36.89	36.54	20.3300	20.3280	
				64	27.98	27.73	19.9940	20.2080	
	6785	167	SU	--	81.24	81.84	77.2840	77.3000	
			242T	61	29.00	27.27	20.3690	20.0940	
				--	--	--	--	--	
				64	31.44	30.44	20.6570	20.2800	
160MHz	6665	143	SU	--	165.30	166.10	157.2500	157.1500	
			242T	61	26.62	25.96	19.6500	19.5960	
				62	28.47	31.15	19.1930	19.2560	
				S64	27.24	29.46	19.5340	19.4010	

9.3.4. 802.11be MIMO CDD MODE IN THE UNII-7 BAND

UNII-7 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6535	117	SU	--	21.61	21.14	19.0610	19.0770	
			52T	37	20.11	19.81	18.2330	18.1520	
				--	--	--	--	--	
				40	20.62	19.73	18.2290	18.1590	
	6715	149	SU	--	21.62	21.33	19.0840	19.0700	
			52T	37	20.02	19.90	18.2360	18.0370	
				38	19.26	18.38	17.0260	16.7570	
				40	20.90	19.85	18.1610	18.2400	
	6855	181	SU	--	21.53	21.77	19.0990	19.0430	
			52T	37	19.68	20.21	18.2030	18.2330	
				--	--	--	--	--	
				40	20.88	19.83	18.3050	18.1620	
40MHz	6565	123	SU	--	40.05	40.04	37.6530	37.6200	
			242T	61	28.62	27.80	19.3660	19.1780	
				62	32.81	29.18	19.4180	19.3110	
	6685	147	SU	--	40.01	39.95	37.6300	37.7260	
			242T	61	33.78	26.45	19.5660	19.2690	
				62	28.80	27.76	19.4900	19.1990	
	6845	179	SU	--	40.19	41.07	37.7070	37.7320	
			242T	61	28.06	27.47	19.3970	19.3040	
				62	30.30	28.24	19.6240	19.3030	
	80MHz (FCC)	6625	135	SU	--	81.73	81.22	77.3520	77.3240
				242T	61	30.03	24.23	20.0040	19.2820
					--	--	--	--	--
64					30.35	28.72	20.5370	19.5020	
80MHz	6705	151	SU	--	81.29	81.77	77.3690	77.3180	
			242T	61	28.62	28.15	20.2350	19.3930	
				62	38.51	29.93	20.0450	19.6770	
				64	28.62	27.43	20.0910	19.7370	
	6785	167	SU	--	81.82	81.86	77.3890	77.4690	
			242T	61	31.91	25.24	19.9580	19.4510	
				64	27.88	27.94	20.0080	19.5250	
				S64	26.66	25.02	19.6640	19.4590	
160MHz	6665	143	SU	--	167.20	164.90	157.3800	157.4000	
			242T	61	26.10	27.09	19.3680	19.4030	
				62	36.05	28.72	20.3970	19.8690	
				S64	26.66	25.02	19.6640	19.4590	

9.4. LP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

TEST PROCEDURE

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.3.b (Method PM-G), because the gated power measurement is used the calculation of EIRP power does not include any corrections for duty factor.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

RESULTS

The plots in these sections are for reference settings only for different bandwidth and different antenna ports.

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:

CDD MIMO Tx chains used uncorrelated gain for EIRP calculation and correlated gain for PSD EIRP calculation; SDM MIMO Tx chains used uncorrelated for both EIRP and PSD EIRP calculation. For the straddle channels, the higher antenna gains were chosen between two bands where straddle channels are located. The directional gains are as follows:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	0.10	-1.10	-0.46	2.53
	Sub-band 2 (6115 - 6255)	0.90	-2.40	-0.44	2.42
	Sub-band 3 (6275 - 6415)	1.60	-2.90	-0.09	2.65
6425 - 6525 UNII-6	N/A	1.90	-3.70	-0.05	2.55
UNII-6/7 (Straddle Channel)	N/A	2.00	-3.70	0.02	2.62
6525 - 6875 UNII-7	N/A	2.00	-4.40	-0.11	2.39
UNII-7/8 (Straddle Channel)	N/A	2.00	-3.50	0.07	2.69
6875 - 7125 UNII-8	N/A	1.00	-3.50	-0.69	2.05

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

Uncorrelated directional gain= $10 \cdot \text{LOG}((10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})/2)$

Correlated directional Gain= $10 \cdot \text{LOG}(((10^{(\text{Ant6}/20)} + 10^{(\text{Ant5}/20)})^2)/2)$

Sample Calculation at UNII-5 Band:

Ant6=0.1, Ant5=-1.10

Uncorrelated Antenna gain= $10 \log[(10^{(0.1/10)} + 10^{(-1.10/10)})/2] = -0.46 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(0.1/20)} + 10^{(-1.10/20)})^2/2] = 2.53 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel – low index) Power=6.23 dBm

EIRP corr'd power = 6.23 + (0.10) = 6.33 dBm

2Tx

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})$ + uncorrelated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel – low index) Power=0.74 dBm, Ant5 Power=0.74

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(0.74/10)} + 10^{(0.74/10)})$ + (-0.46) = 3.29 dBm

EIRP PSD Calculation:**1Tx**

EIRP corr'd PSD = DCCF + Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel – low index) PSD= -1.201 dBm/1MHz

EIRP corr'd PSD = 0 + -1.201 + (0.10) = -1.101 dBm/1MHz

2Tx (OFDMA)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{Ant6})/10)} + 10^{((\text{DCCF} + \text{Ant5})/10)}))$ + correlated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel – low index) PSD=-8.484 dBm/1MHz, Ant5 PSD=-8.313 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-8.484))/10)} + 10^{((0 + (-8.313))/10)}))$ + (2.53) = -2.857 dBm/1MHz

2Tx (SDM)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{C39})/10)} + 10^{((\text{DCCF} + \text{D39})/10)}))$ + uncorrelated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel – low index) PSD=-5.566 dBm/1MHz, Ant5 PSD=-5.534 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-5.566))/10)} + 10^{((0 + (-5.534))/10)}))$ + (-0.46) = -3.000 dBm/1MHz

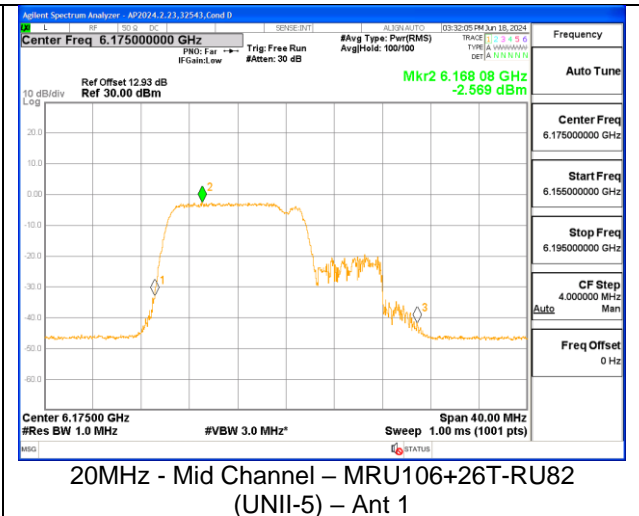
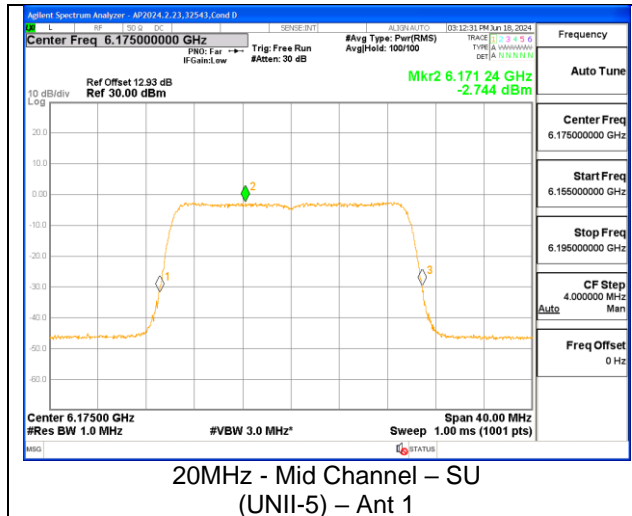
9.4.1. 802.11be SISO MODE IN THE UNII-5 BAND – LOW POWER

LP UNII-5 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)		
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	0	0	0.10	-1.10	5955	1	SU	--	8.47	8.45	8.57	7.35	-1.224	-1.458	-1.124	-2.558	
							MRU	82	6.23	6.23	6.33	5.13	-1.201	-1.319	-1.101	-2.419	
							106+26T	83	6.24	6.22	6.34	5.12	-1.201	-1.261	-1.101	-2.361	
			0.90	-2.40	6175	45	SU	--	7.72	7.72	8.62	5.32	-2.744	-2.966	-1.844	-5.366	
							MRU	82	5.47	5.46	6.37	3.06	-2.569	-2.794	-1.669	-5.194	
							106+26T	83	5.46	5.46	6.36	3.06	-2.633	-2.577	-1.733	-4.977	
	1.60	-2.90	6415	93	SU	--	6.91	6.98	8.51	4.08	-2.946	-3.084	-1.346	-5.984			
					MRU	82	4.71	4.72	6.31	1.82	-3.254	-2.996	-1.654	-5.896			
					106+26T	83	4.67	4.68	6.27	1.78	-3.013	-3.199	-1.413	-6.099			
	40MHz	0	0.19	0.10	-1.10	5965	3	SU	--	11.47	11.43	11.57	10.33	-1.652	-1.538	-1.552	-2.638
								MRU	82	6.18	6.19	6.28	5.09	-1.856	-1.797	-1.566	-2.707
								106+26T	84	6.23	6.23	6.33	5.13	-1.539	-1.499	-1.249	-2.409
0.90				-2.40	6165	43	SU	--	10.71	10.72	11.61	8.32	-2.897	-3.007	-1.997	-5.407	
							MRU	82	5.48	5.43	6.38	3.03	-3.055	-2.978	-1.965	-5.188	
							106+26T	84	5.43	5.48	6.33	3.08	-3.023	-2.718	-1.933	-4.928	
1.60		-2.90	6405	91	SU	--	9.97	9.92	11.57	7.02	-3.275	-3.255	-1.675	-6.155			
					MRU	82	4.71	4.67	6.31	1.77	-3.377	-3.412	-1.587	-6.122			
					106+26T	84	4.68	4.68	6.28	1.78	-3.398	-3.291	-1.608	-6.001			
80MHz		0.14	0.12	0.10	-1.10	5985	7	SU	--	14.46	14.48	14.56	13.38	-3.169	-2.737	-2.929	-3.697
								52T	37	2.19	2.22	2.29	1.12	-3.027	-2.992	-2.807	-3.972
								45	2.23	2.24	2.33	1.14	-2.758	-2.788	-2.538	-3.768	
	0.90			-2.40	6145	39	SU	--	13.67	13.68	14.57	11.28	-4.049	-3.990	-3.009	-6.250	
							52T	37	1.46	1.45	2.36	-0.95	-3.895	-3.848	-2.875	-6.128	
							45	1.47	1.43	2.37	-0.97	-3.960	-3.827	-2.940	-6.107		
	1.60	-2.90	6385	87	SU	--	12.93	12.95	14.53	10.05	-4.478	-4.537	-2.738	-7.297			
					52T	37	0.69	0.72	2.29	-2.18	-4.599	-4.594	-2.879	-7.374			
					45	0.72	0.72	2.32	-2.18	-4.343	-4.625	-2.623	-7.405				
	160MHz	0.25	0	0.10	-1.10	6025	15	SU	--	16.68	16.67	16.78	15.57	-2.929	-3.059	-2.579	-3.909
								484T	65	11.45	11.46	11.55	10.36	-3.082	-3.115	-2.982	-4.215
								S66	11.47	11.45	11.57	10.35	-2.902	-2.926	-2.802	-4.026	
0.90				-2.40	6185	47	SU	--	15.94	15.92	16.84	13.52	-4.438	-4.469	-3.288	-6.619	
							484T	65	10.73	10.65	11.63	8.25	-3.526	-3.554	-2.626	-5.954	
							S66	10.74	10.73	11.64	8.33	-3.494	-3.577	-2.594	-5.977		
1.60		-2.90	6345	79	SU	--	15.17	15.14	16.77	12.24	-5.137	-5.337	-3.287	-7.987			
					484T	65	9.92	9.96	11.52	7.06	-4.597	-4.409	-2.997	-7.309			
					S66	9.92	9.95	11.52	7.05	-4.239	-4.478	-2.639	-7.378				

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



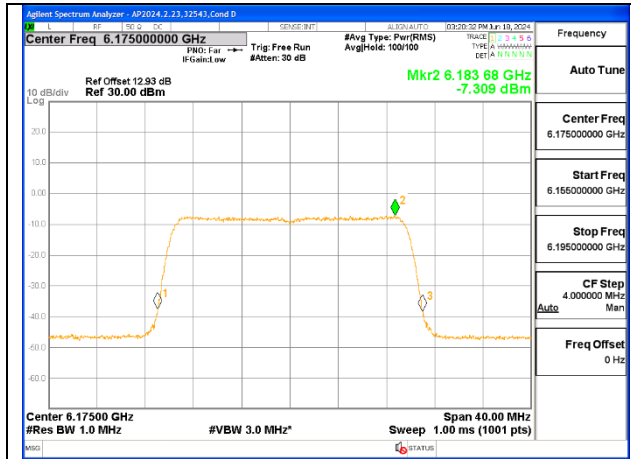
9.4.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – LOW POWER

LP CDD UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.46	2.53	5955	1	SU	--	2.95	2.98	5.52	-8.097	-8.073	-2.545
							MRU	82	0.74	0.74	3.29	-8.484	-8.313	-2.857
							106+26T	83	0.68	0.70	3.24	-8.500	-8.456	-2.938
			-0.44	2.42	6175	45	SU	--	3.21	3.24	5.80	-7.309	-7.150	-1.798
							MRU	82	0.95	0.95	3.52	-7.117	-7.281	-1.768
							106+26T	83	0.96	0.96	3.53	-6.972	-7.208	-1.658
			-0.09	2.65	6415	93	SU	--	2.90	2.97	5.86	-8.410	-8.201	-2.644
							MRU	82	0.68	0.67	3.60	-8.062	-8.272	-2.505
							106+26T	83	0.72	0.68	3.62	-8.360	-8.252	-2.645
40MHz	0	0.19	-0.46	2.53	5965	3	SU	--	5.97	5.98	8.53	-6.902	-7.177	-1.497
							MRU	82	0.68	0.73	3.26	-8.347	-8.309	-2.598
							106+26T	84	0.69	0.69	3.24	-8.379	-8.227	-2.572
			-0.44	2.42	6165	43	SU	--	6.23	6.23	8.80	-6.612	-6.409	-1.079
							MRU	82	0.93	0.95	3.51	-7.686	-7.500	-1.972
							106+26T	84	0.89	0.92	3.48	-7.462	-7.300	-1.760
			-0.09	2.65	6405	91	SU	--	5.92	5.97	8.87	-7.146	-7.247	-1.536
							MRU	82	0.74	0.71	3.65	-8.536	-8.561	-2.698
							106+26T	84	0.66	0.67	3.59	-8.421	-8.541	-2.630
80MHz	0.14	0.12	-0.46	2.53	5985	7	SU	--	8.92	8.92	11.47	-8.511	-8.645	-2.897
							37	-3.28	-3.28	-0.73	-8.332	-8.326	-2.669	
							52T	45	-3.31	-3.29	-0.75	-8.329	-8.278	-2.643
			-0.44	2.42	6145	39	SU	--	9.18	9.24	11.78	-8.366	-8.224	-2.724
							37	-3.02	-3.07	-0.47	-8.066	-8.007	-2.486	
							52T	45	-3.08	-3.05	-0.49	-8.091	-8.081	-2.536
			-0.09	2.65	6385	87	SU	--	8.97	8.96	11.89	-8.576	-8.579	-2.777
							37	-3.32	-3.38	-0.43	-8.594	-8.475	-2.754	
							52T	45	-3.30	-3.37	-0.41	-8.529	-8.457	-2.713
160MHz	0.25	0	-0.46	2.53	6025	15	SU	--	11.18	11.22	13.75	-8.529	-8.745	-2.845
							484T	65	5.93	5.94	8.49	-8.249	-8.476	-2.821
							S66	5.92	5.92	8.47	-8.594	-8.440	-2.976	
			-0.44	2.42	6185	47	SU	--	11.41	11.43	13.99	-8.112	-8.217	-2.484
							484T	65	6.21	6.17	8.76	-8.054	-8.061	-2.627
							S66	6.18	6.23	8.78	-8.012	-8.039	-2.595	
			-0.09	2.65	6345	79	SU	--	11.18	11.16	14.09	-8.529	-8.809	-2.756
							484T	65	5.91	5.96	8.86	-8.381	-8.438	-2.749
							S66	5.97	5.95	8.88	-8.212	-8.553	-2.719	

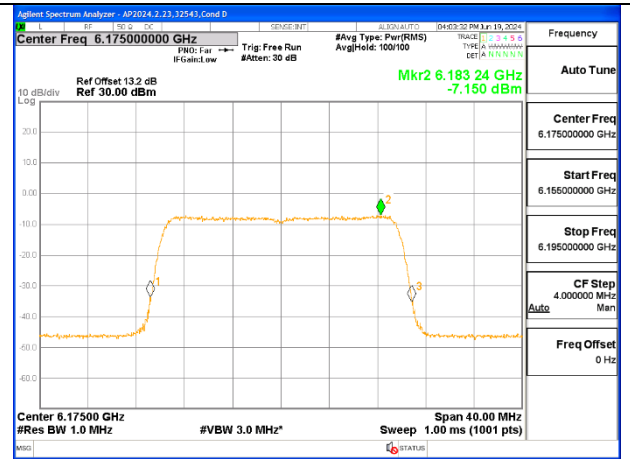
Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

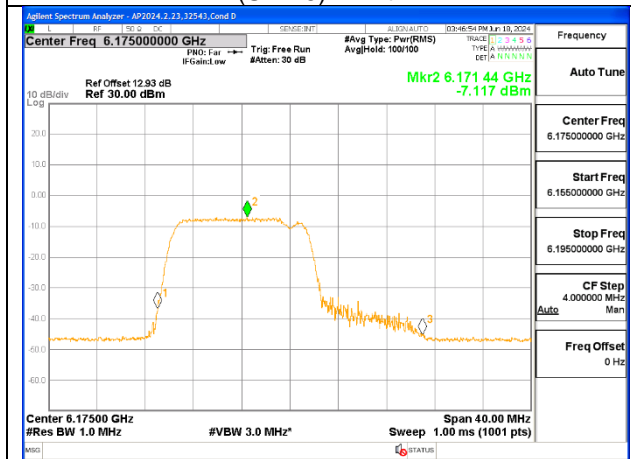
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



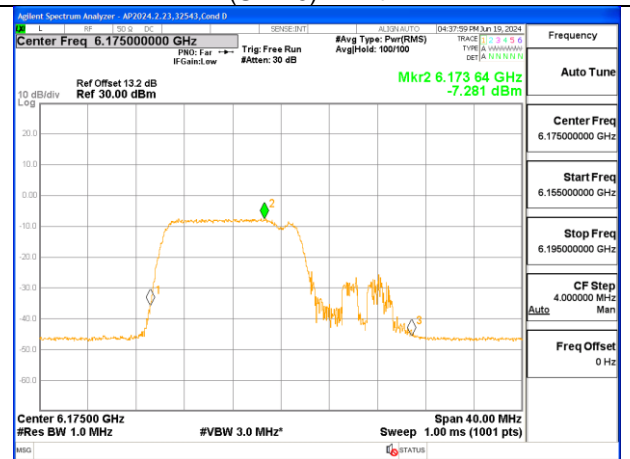
20MHz - Mid Channel – SU (UNII-5) – Ant 1



20MHz - Mid Channel – SU (UNII-5) – Ant 2



20MHz - Mid Channel – MRU106+26T-RU82 (UNII-5) – Ant 1



20MHz - Mid Channel – MRU106+26T-RU82 (UNII-5) – Ant 2

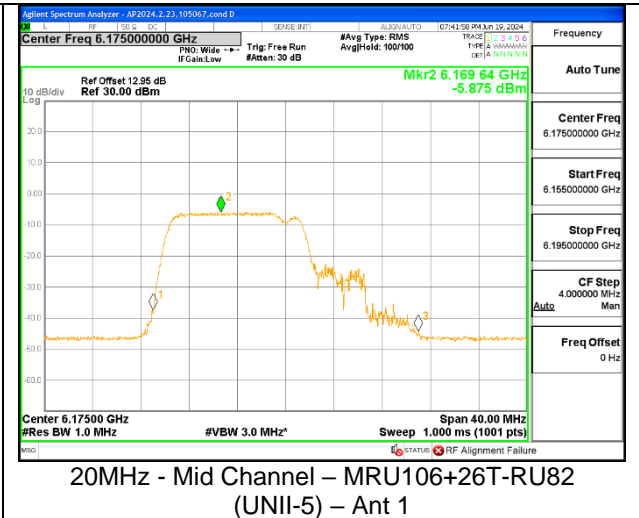
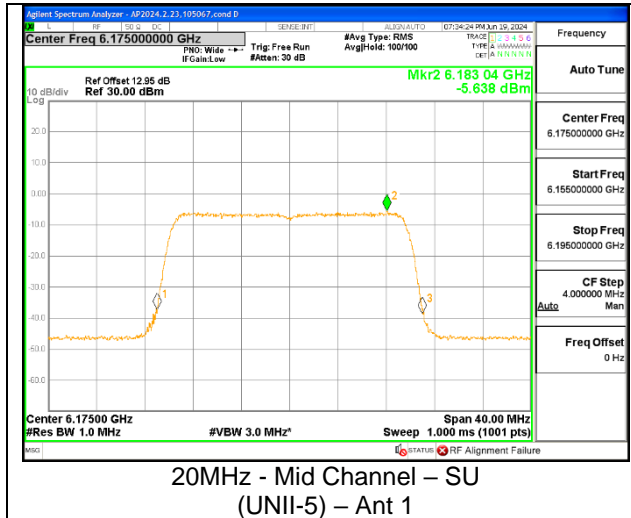
9.4.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND – LOW POWER

LP SDM UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.46	2.53	5955	1	SU	--	5.92	5.92	8.47	-5.688	-5.545	-3.066
							MRU	82	3.71	3.72	6.27	-5.566	-5.534	-3.000
							106+26T	83	3.74	3.71	6.28	-5.577	-5.684	-3.080
			-0.44	2.42	6175	45	SU	--	5.98	5.95	8.54	-5.638	-5.851	-3.173
							MRU	82	3.74	3.66	6.27	-5.875	-6.044	-3.388
							106+26T	83	3.68	3.69	6.26	-5.734	-5.693	-3.143
			-0.09	2.65	6415	93	SU	--	5.68	5.72	8.62	-6.064	-6.117	-3.170
							MRU	82	3.42	3.46	6.36	-6.119	-6.007	-3.142
							106+26T	83	3.42	3.41	6.34	-6.162	-5.832	-3.074
40MHz	0	0	-0.46	2.53	5965	3	SU	--	8.93	8.91	11.47	-5.566	-5.540	-3.003
							MRU	82	3.68	3.70	6.24	-5.849	-5.852	-3.300
							106+26T	84	3.71	3.66	6.24	-5.902	-5.919	-3.360
			-0.44	2.42	6165	43	SU	--	8.93	8.92	11.50	-5.773	-5.816	-3.224
							MRU	82	3.68	3.68	6.25	-5.629	-5.846	-3.166
							106+26T	84	3.66	3.69	6.25	-5.788	-5.812	-3.230
			-0.09	2.65	6405	91	SU	--	8.71	8.68	11.62	-6.052	-6.102	-3.157
							MRU	82	3.46	3.43	6.37	-6.288	-6.399	-3.423
							106+26T	84	3.44	3.47	6.38	-6.338	-6.204	-3.350
80MHz	0.3	0	-0.46	2.53	5985	7	SU	--	11.93	11.95	14.49	-5.412	-4.910	-2.303
							52T	37	-0.34	-0.36	2.20	-4.785	-4.734	-2.209
							52	45	-0.36	-0.36	2.19	-4.508	-4.887	-2.143
			-0.44	2.42	6145	39	SU	--	11.96	11.91	14.51	-5.509	-5.544	-2.656
							52T	37	-0.44	-0.32	2.19	-4.677	-4.507	-2.021
							52	45	-0.35	-0.31	2.24	-4.817	-4.871	-2.274
			-0.09	2.65	6385	87	SU	--	11.68	11.67	14.60	-6.031	-5.905	-2.747
							52T	37	-0.59	-0.54	2.36	-5.921	-5.997	-3.039
							52	45	-0.57	-0.54	2.37	-6.023	-6.023	-3.103
160MHz	0.5	0	-0.46	2.53	6025	15	SU	--	14.18	14.20	16.74	-5.691	-5.788	-2.689
							484T	65	8.96	8.97	11.52	-5.066	-5.390	-2.675
							566	8.96	8.94	11.50	-5.091	-5.215	-2.602	
			-0.44	2.42	6185	47	SU	--	14.22	14.18	16.77	-5.895	-5.835	-2.795
							484T	65	8.91	8.97	11.51	-5.190	-5.304	-2.676
							566	8.93	8.93	11.50	-5.217	-5.499	-2.785	
			-0.09	2.65	6345	79	SU	--	13.92	13.96	16.86	-6.357	-6.252	-2.884
							484T	65	8.69	8.72	11.63	-5.953	-5.897	-3.005
							566	8.70	8.73	11.64	-5.664	-5.931	-2.875	

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



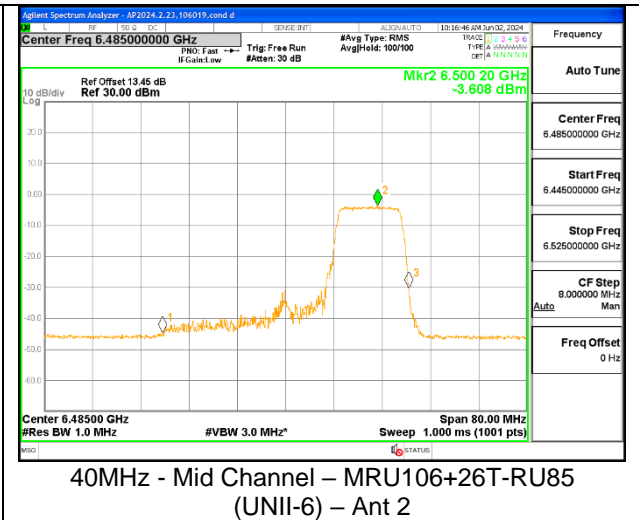
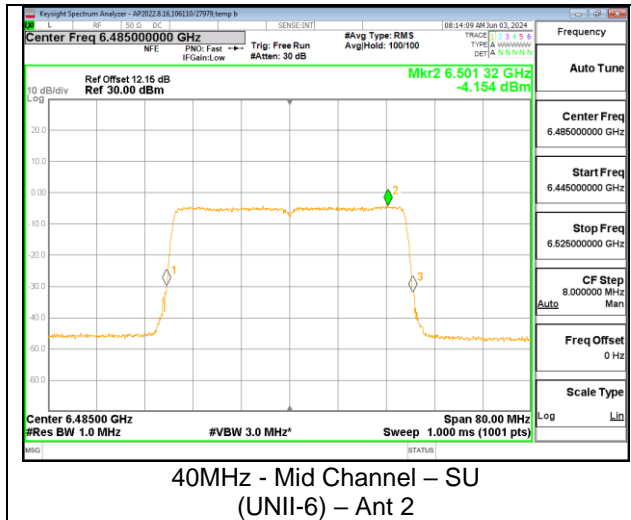
9.4.4. 802.11be SISO MODE IN THE UNII-6 BAND – LOW POWER

LP UNII-6 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)						
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2					
																	Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	0	0	1.90	-3.70	6435	97	SU	--	6.68	6.68	8.58	2.98	-4.192	-4.356	-2.292	-8.056					
							MRU	82	4.44	4.46	6.34	0.76	-3.301	-3.102	-1.401	-6.802					
							106+26T	83	4.46	4.41	6.36	0.71	-3.389	-2.902	-1.489	-6.602					
					6475	105	SU	--	6.66	6.73	8.56	3.03	-4.281	-4.349	-2.381	-8.049					
							MRU	82	4.46	4.47	6.36	0.77	-3.359	-2.943	-1.459	-6.643					
							106+26T	83	4.47	4.45	6.37	0.75	-3.368	-3.105	-1.468	-6.805					
					6515	113	SU	--	6.68	6.74	8.58	3.04	-4.450	-4.185	-2.550	-7.885					
							MRU	82	4.47	4.46	6.37	0.76	-3.366	-3.085	-1.466	-6.785					
							106+26T	83	4.42	4.47	6.32	0.77	-3.313	-3.019	-1.413	-6.719					
40MHz	0	0.19	1.90	-3.70	6445	99	SU	--	9.74	9.72	11.64	6.02	-4.001	-4.027	-2.101	-7.727					
							MRU	82	4.42	4.41	6.32	0.71	-3.785	-4.015	-1.695	-7.525					
							106+26T	85	4.43	4.48	6.33	0.78	-3.699	-4.045	-1.609	-7.555					
					6485	107	SU	--	9.73	9.71	11.63	6.01	-3.824	-4.154	-1.924	-7.854					
							MRU	82	4.42	4.44	6.32	0.74	-4.163	-3.736	-2.073	-7.246					
							106+26T	84	4.46	4.43	6.36	0.73	-3.606	-3.709	-1.516	-7.219					
			6525 (Straddle)	115	SU	--	9.48	9.48	11.48	5.78	-4.392	-4.330	-2.392	-8.030							
					MRU	82	4.23	4.16	6.23	0.46	-4.544	-4.323	-2.354	-7.833							
					106+26T	84	4.24	4.22	6.24	0.52	-4.318	-4.315	-2.128	-7.825							
					85	4.22	4.24	6.22	0.54	-4.332	-4.399	-2.142	-7.909								
					80MHz	0.14	0.12	1.90	-3.70	6465	103	SU	--	12.69	12.72	14.59	9.02	-4.750	-4.563	-2.710	-8.123
												37	0.44	0.43	2.34	-3.27	-5.083	-4.711	-3.063	-8.291	
45	0.41	0.39	2.31	-3.31								-5.387	-4.981	-3.367	-8.561						
160MHz	0.25	0	2.00	-3.70	6505 (Straddle)	111	52T	52	0.46	0.43	2.36	-3.27	-4.898	-5.094	-2.878	-8.674					
							SU	--	14.74	14.73	16.74	11.03	-5.119	-5.240	-2.869	-8.690					
							484T	65	9.49	9.42	11.49	5.72	-4.893	-5.021	-2.893	-8.721					
566	9.42	9.47	11.42	5.77	-4.718	-5.038	-2.718	-8.738													

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



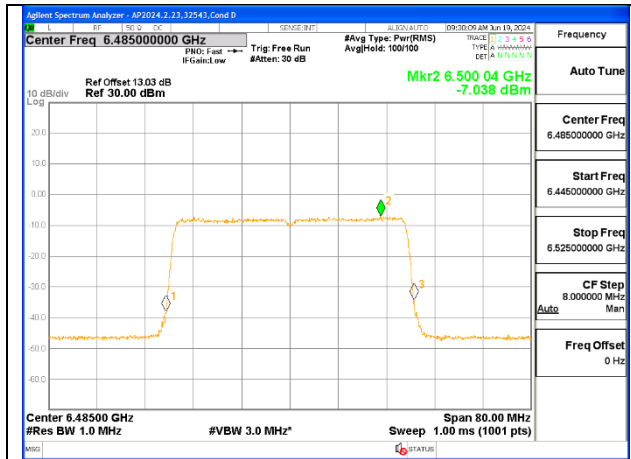
9.4.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND – LOW POWER

LP CDD UNII-6 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)					
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2						
20MHz	0	0	-0.05	2.55	6435	97	SU	--	2.89	2.92	5.87	-8.246	-8.492	-2.807					
							MRU	82	0.69	0.71	3.66	-8.335	-8.022	-2.615					
							106+26T	83	0.68	0.72	3.66	-8.020	-8.368	-2.630					
					6475	105	SU	--	2.95	2.95	5.91	-8.398	-8.462	-2.870					
							MRU	82	0.68	0.73	3.67	-8.490	-8.413	-2.891					
							106+26T	83	0.71	0.68	3.66	-8.162	-8.239	-2.640					
					6515	113	SU	--	2.93	2.91	5.88	-8.535	-8.368	-2.890					
							MRU	82	0.74	0.69	3.68	-8.495	-8.266	-2.819					
							106+26T	83	0.72	0.71	3.68	-8.460	-8.265	-2.801					
					40MHz	0	0.19	-0.05	2.55	6445	99	SU	--	5.97	5.95	8.92	-6.836	-7.021	-1.367
												MRU	82	0.73	0.72	3.69	-7.697	-8.173	-2.178
												106+26T	84	0.68	0.68	3.64	-7.772	-7.972	-2.121
6485	107	SU	--	5.96						5.93	8.91	-7.038	-7.131	-1.524					
		MRU	82	0.72						0.69	3.67	-7.735	-8.013	-2.121					
		106+26T	84	0.69						0.71	3.66	-8.139	-7.837	-2.235					
6525 (Straddle)	115	SU	--	5.98				5.97	9.01	-7.029	-7.084	-1.426							
		MRU	82	0.69				0.74	3.75	-7.828	-7.669	-1.927							
		106+26T	84	0.67				0.67	3.70	-7.877	-7.999	-2.117							
		SU	--	8.96				8.98	11.93	-7.134	-7.255	-1.494							
		MRU	37	-3.31				-3.31	-0.35	-7.824	-7.469	-1.963							
		106+26T	45	-3.27				-3.38	-0.36	-7.635	-7.653	-1.964							
80MHz	0.14	0.12	-0.05	2.55	6465	103	52T	52	-3.31	-3.29	-0.34	-7.688	-7.473	-1.899					
							SU	--	11.22	11.17	14.23	-8.528	-8.999	-2.877					
							MRU	65	5.91	5.97	8.97	-8.265	-8.208	-2.606					
							106+26T	566	5.95	5.98	9.00	-8.459	-8.322	-2.760					
							SU	--	8.96	8.98	11.93	-7.134	-7.255	-1.494					
							MRU	37	-3.31	-3.31	-0.35	-7.824	-7.469	-1.963					
160MHz	0.25	0	0.02	2.62	6505 (Straddle)	111	SU	--	11.22	11.17	14.23	-8.528	-8.999	-2.877					
							MRU	65	5.91	5.97	8.97	-8.265	-8.208	-2.606					
							106+26T	566	5.95	5.98	9.00	-8.459	-8.322	-2.760					

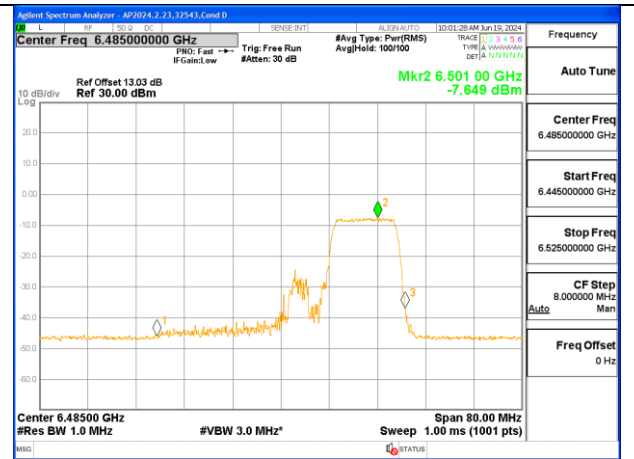
Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



40MHz - Mid Channel – SU
(UNII-6) – Ant 1



40MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 1

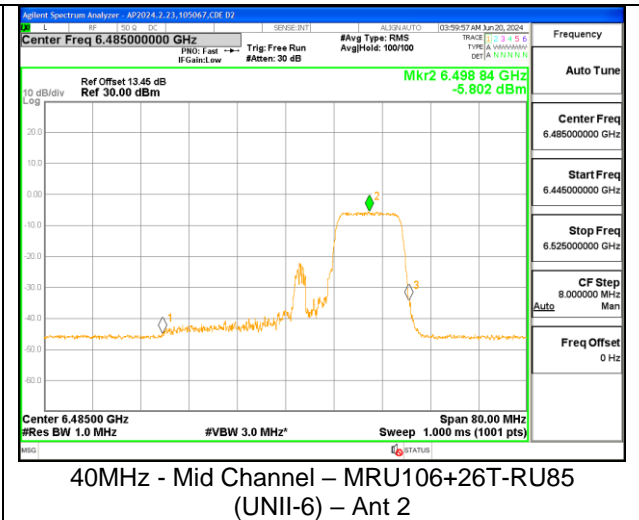
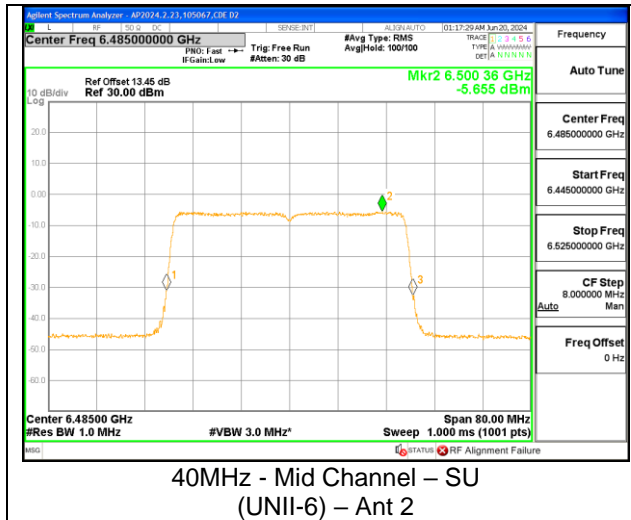
9.4.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND – LOW POWER

LP SDM UNII-6 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)		
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2			
20MHz	0	0	-0.05	2.55	6435	97	SU	--	5.65	5.71	8.64	-5.514	-5.457	-2.525		
							MRU	82	3.40	3.43	6.38	-5.730	-5.724	-2.767		
							106+26T	83	3.43	3.48	6.42	-5.665	-5.367	-2.553		
					6475	105	SU	--	5.72	5.66	8.65	-5.586	-5.173	-2.414		
							MRU	82	3.44	3.46	6.41	-5.406	-5.325	-2.405		
							106+26T	83	3.47	3.45	6.42	-5.403	-5.407	-2.445		
					6515	113	SU	--	5.68	5.68	8.64	-5.319	-5.471	-2.434		
							MRU	82	3.45	3.43	6.40	-5.556	-5.429	-2.532		
							106+26T	83	3.43	3.47	6.41	-5.656	-5.718	-2.727		
40MHz	0	0	-0.05	2.55	6445	99	SU	--	8.68	8.72	11.66	-5.903	-5.756	-2.869		
							MRU	82	3.46	3.39	6.39	-6.013	-5.997	-3.045		
							106+26T	84	3.45	3.47	6.42	-5.549	-5.939	-2.779		
					6485	107	SU	--	8.66	8.70	11.64	-5.533	-5.655	-2.633		
							MRU	82	3.42	3.41	6.38	-5.824	-5.680	-2.791		
							106+26T	84	3.48	3.47	6.44	-5.838	-5.837	-2.877		
			6525 (Straddle)	115	SU	--	8.69	8.68	11.72	-5.839	-5.919	-2.849				
					MRU	82	3.46	3.45	6.49	-5.471	-5.651	-2.530				
					106+26T	84	3.44	3.42	6.46	-5.786	-5.740	-2.733				
80MHz	0.3	0	-0.05	2.55	6465	103	SU	--	11.71	11.68	14.66	-5.577	-5.652	-2.354		
							52T	37	-0.57	-0.58	2.39	-5.813	-5.838	-2.865		
							45	-0.53	-0.54	2.43	-5.867	-5.544	-2.742			
			6505 (Straddle)	111	52T	52	-0.52	-0.56	2.42	-5.660	-5.526	-2.632				
					SU	--	13.92	13.89	16.94	-5.660	-5.254	-1.922				
					484T	65	8.68	8.73	11.74	-5.263	-5.461	-2.331				
			160MHz	0.5	0	0.02	2.62	6505 (Straddle)	111	566	8.69	8.67	11.71	-5.526	-5.514	-2.490

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



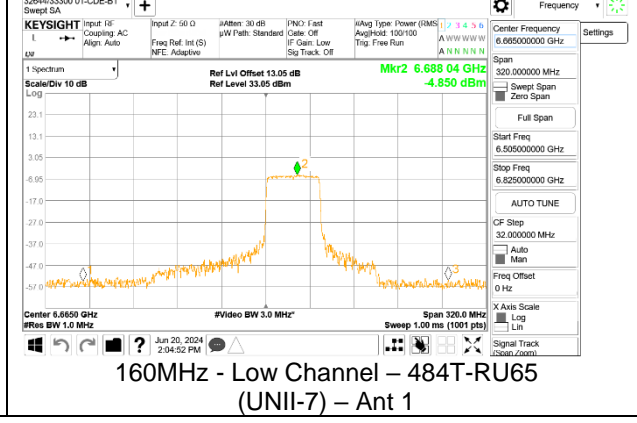
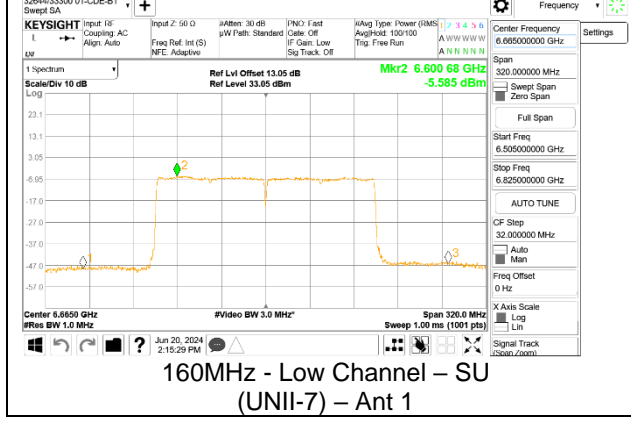
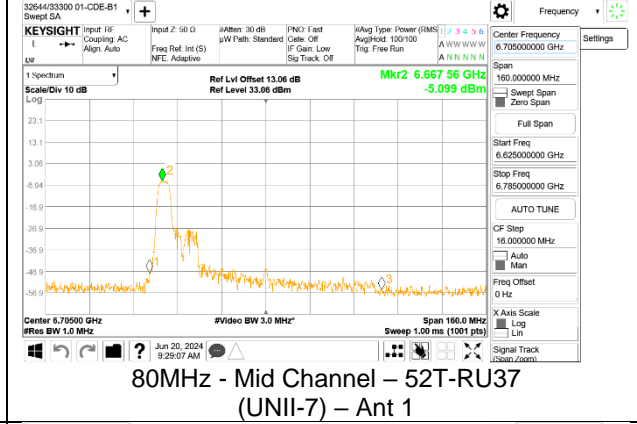
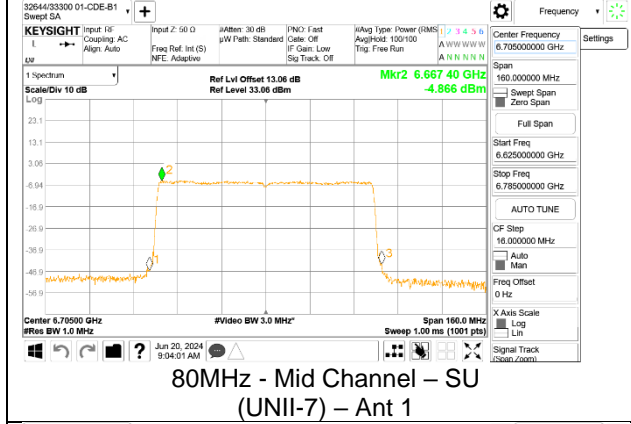
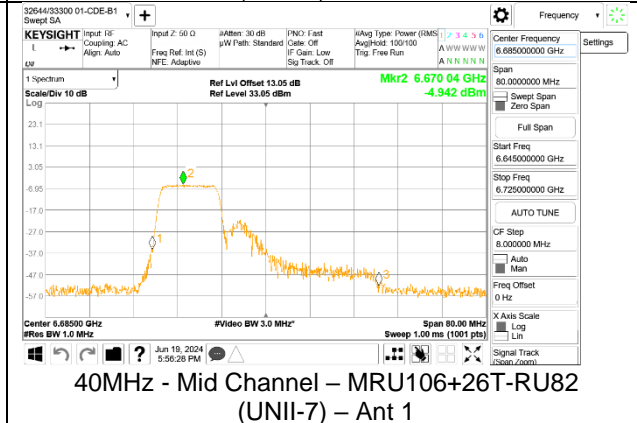
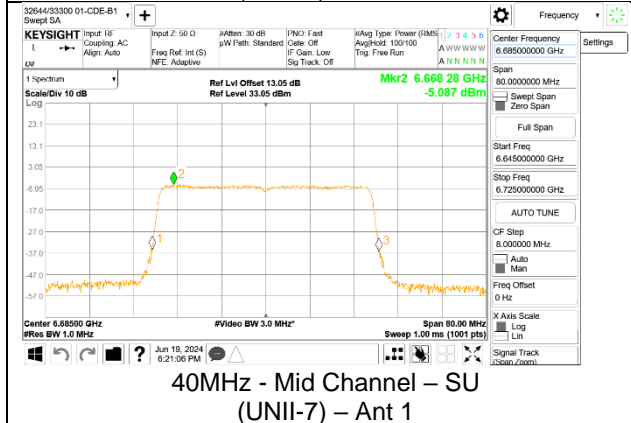
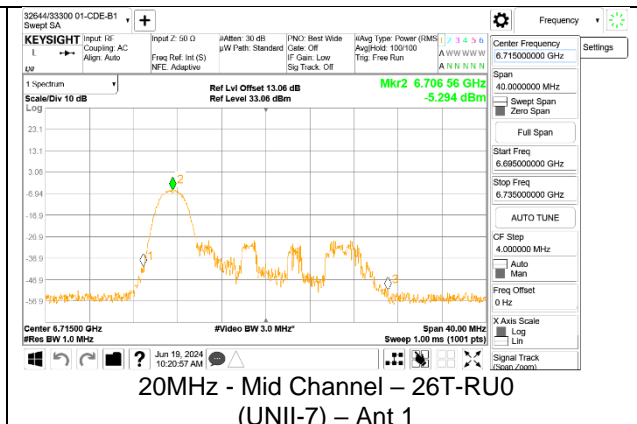
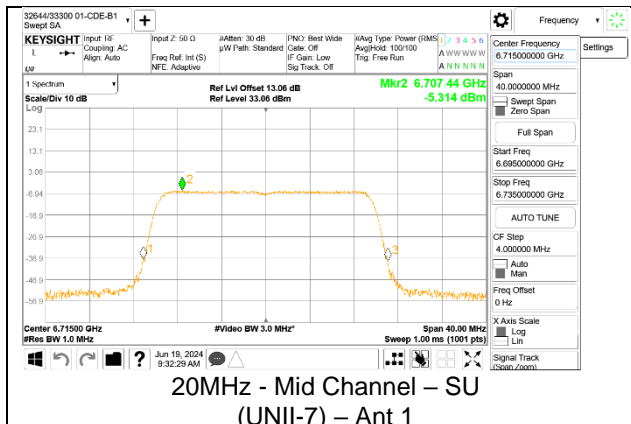
9.4.7. 802.11be SISO MODE IN THE UNII-7 BAND – LOW POWER

LP UNII-7 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)					
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2				
20MHz	0	0	2.00	-4.40	6535	117	SU	--	6.45	6.44	8.45	2.04	-5.371	-5.004	-3.371	-9.404				
							26T	0	-2.63	-2.58	-0.63	-6.98	-4.807	-4.969	-2.807	-9.369				
								4	-2.55	-2.56	-0.55	-6.96	-6.228	-6.180	-4.228	-10.580				
								8	-2.59	-2.55	-0.59	-6.95	-5.164	-5.215	-3.164	-9.615				
							26T	SU	--	6.43	6.45	8.43	2.05	-5.314	-5.219	-3.314	-9.619			
								0	-2.54	-2.51	-0.54	-6.91	-5.294	-4.998	-3.294	-9.398				
	4	-2.55	-2.53	-0.55	-6.93	-6.234		-6.004	-4.234	-10.404										
	2.00	-3.50	6875 (Straddle)	185	SU	--	6.45	6.46	8.45	2.96	-5.271	-5.427	-3.271	-8.927						
					26T	0	-2.53	-2.53	-0.53	-6.03	-5.170	-5.580	-3.170	-9.080						
						4	-2.55	-2.51	-0.55	-6.01	-6.311	-6.118	-4.311	-9.618						
						8	-2.57	-2.54	-0.57	-6.94	-5.351	-5.252	-3.351	-9.652						
					40MHz	0	0.19	2.00	-4.40	6565	123	SU	--	9.43	9.46	11.43	5.06	-5.105	-4.966	-3.105
MRU 106+26T												82	4.23	4.20	6.23	-0.20	-4.791	-5.090	-2.601	-9.300
	84	4.23	4.23	6.23								-0.17	-4.839	-4.911	-2.649	-9.121				
	85	4.22	4.15	6.22								-0.25	-4.892	-4.877	-2.702	-9.087				
MRU 106+26T	SU	--	9.40	9.40								11.40	5.00	-5.087	-5.184	-3.087	-9.584			
	82	4.22	4.20	6.22								-0.20	-4.942	-4.887	-2.752	-9.097				
	84	4.20	4.22	6.20		-0.18	-4.983	-4.925	-2.793	-9.135										
2.00	-3.50	6845 (Straddle)	179	SU		--	9.45	9.45	11.45	5.05	-5.214	-5.121	-3.214	-9.521						
				MRU 106+26T		82	4.17	4.15	6.17	-0.25	-5.094	-5.216	-2.904	-9.426						
						84	4.23	4.20	6.23	-0.20	-4.799	-5.092	-2.609	-9.302						
						85	4.20	4.15	6.20	-0.25	-5.013	-5.202	-2.823	-9.412						
				80MHz		0.14	0.12	2.00	-3.70	6545 (Straddle)	119	SU	--	12.39	12.47	14.39	8.77	-4.849	-4.610	-2.709
					52T							37	0.17	0.16	2.17	-3.54	-5.235	-4.919	-3.115	-8.499
45	0.23	0.23	2.23									-3.47	-5.289	-5.268	-3.169	-8.848				
52	0.22	0.16	2.22									-3.54	-5.206	-5.215	-3.086	-8.795				
52T	SU	--	12.45		12.46							14.45	8.06	-4.866	-4.619	-2.726	-8.879			
	37	0.18	0.24		2.18							-4.16	-5.099	-4.799	-2.979	-9.079				
	45	0.19	0.19		2.19	-4.21	-5.234	-5.112	-3.114	-9.392										
2.00	-3.50	6705 (Straddle)	151		SU	--	12.45	12.41	14.45	8.91	-4.739	-5.125	-2.599	-8.485						
					52T	37	0.23	0.23	2.23	-3.27	-5.091	-5.346	-2.971	-8.726						
						45	0.17	0.21	2.17	-3.29	-5.226	-5.504	-3.106	-8.884						
						52	0.23	0.15	2.23	-3.35	-5.254	-5.474	-3.134	-8.854						
					160MHz	0.25	0	2.00	-4.40	6665	143	SU	--	14.67	14.70	16.67	10.30	-5.585	-5.366	-3.335
				484T								65	9.43	9.44	11.43	5.04	-4.850	-5.118	-2.850	-9.518
S66	9.45	9.45	11.45									5.05	-5.051	-5.018	-3.051	-9.418				
SU	--	14.65	14.67									16.65	11.17	-5.222	-5.306	-2.972	-8.556			
484T	65	9.40	9.46	11.40								5.96	-5.201	-5.202	-3.201	-8.702				
	S66	9.44	9.45	11.44								5.95	-5.052	-4.915	-3.052	-8.415				
	SU	--	14.65	14.67		16.65	11.17	-5.222	-5.306	-2.972	-8.556									

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



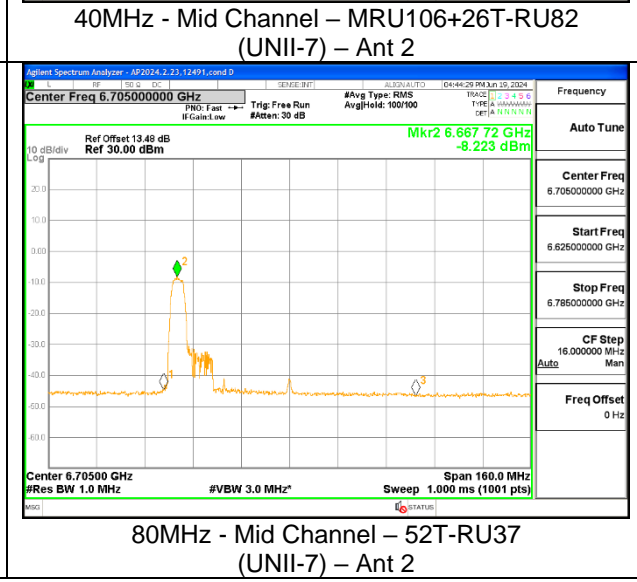
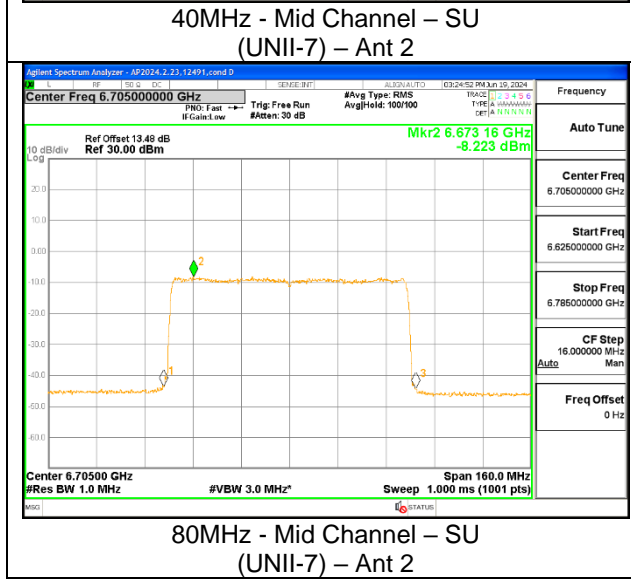
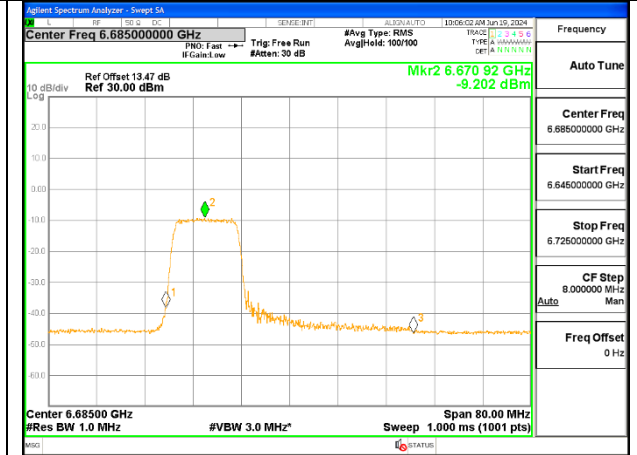
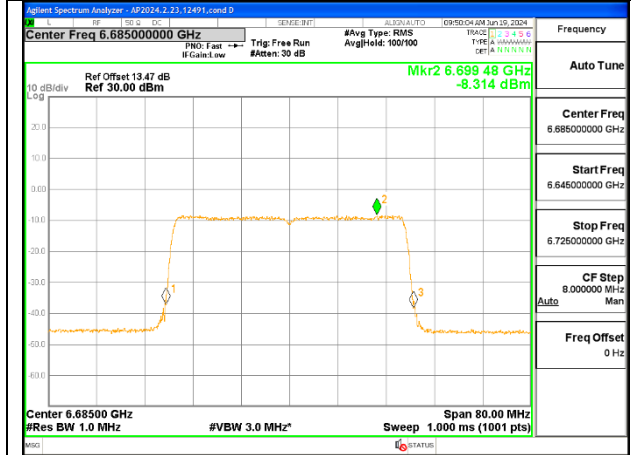
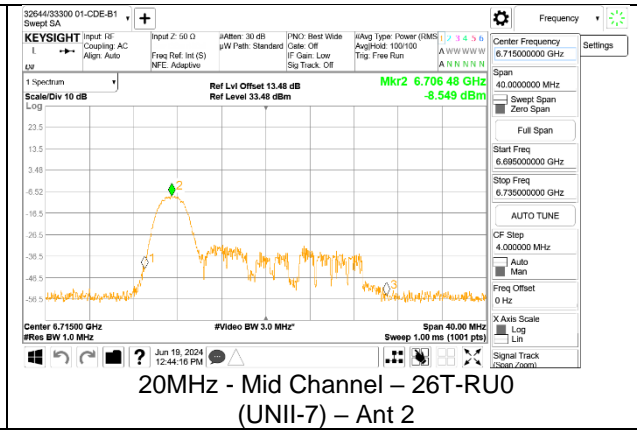
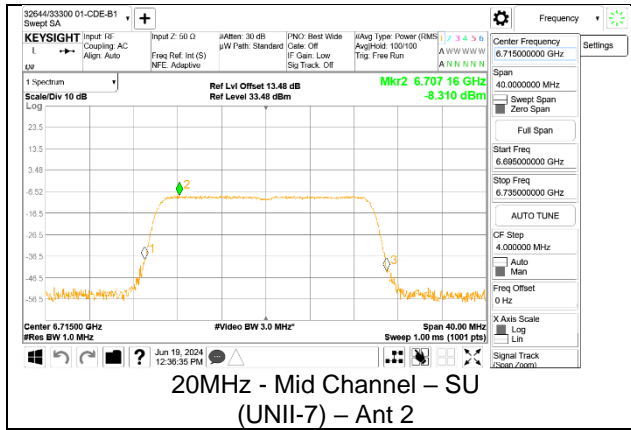
9.4.8. 802.11be MIMO CDD MODE IN THE UNII-7 BAND – LOW POWER

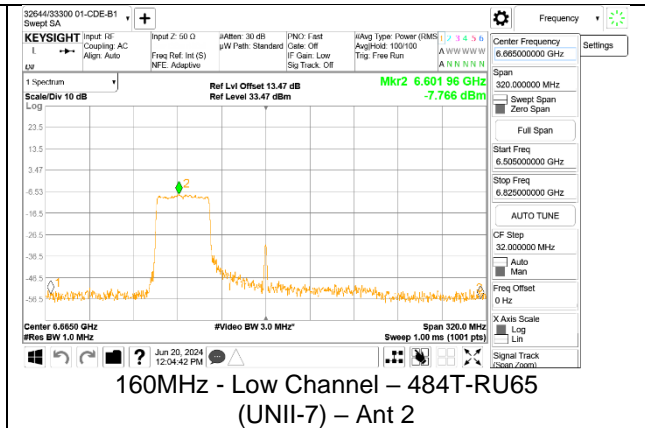
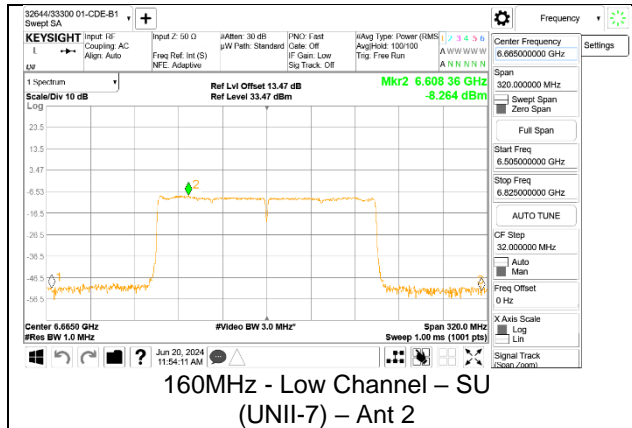
LP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)			
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2				
20MHz	0	0	-0.11	2.39	6535	117	SU	--	3.17	3.23	6.10	-8.476	-8.433	-3.054			
							0	-5.85	-5.77	-2.91	-8.519	-8.331	-3.024				
							4	-5.80	-5.82	-2.91	-9.611	-9.556	-4.183				
					8	-5.77	-5.80	-2.88	-8.533	-8.461	-3.097						
					26T	--	3.23	3.17	6.10	-8.591	-8.310	-3.048					
					0	-5.77	-5.82	-2.89	-8.542	-8.549	-3.145						
			0.07	2.69	6875 (Straddle)	185	26T	--	3.20	3.23	6.30	-8.633	-8.345	-2.786			
							0	-5.86	-5.80	-2.75	-8.342	-8.613	-2.775				
							4	-5.77	-5.82	-2.71	-9.652	-9.517	-3.884				
					8	-5.82	-5.80	-2.91	-8.506	-8.254	-2.978						
					SU	--	6.16	6.15	9.06	-8.203	-8.292	-2.847					
					MRU	82	0.89	0.91	3.80	-9.146	-9.059	-3.512					
40MHz	0	0.19	-0.11	2.39	6565	123	106+26	84	0.91	0.88	3.80	-9.002	-9.006	-3.414			
							T	85	0.83	0.89	3.76	-8.706	-9.051	-3.285			
							SU	--	6.14	6.23	9.09	-8.320	-8.314	-2.917			
					6685	147	MRU	82	0.86	0.82	3.74	-8.807	-9.202	-3.410			
							106+26	84	0.86	0.96	3.81	-9.373	-8.991	-3.588			
							T	85	0.95	0.91	3.83	-9.143	-9.105	-3.534			
			6845	179	SU	--	6.23	6.23	9.13	-8.595	-8.634	-3.214					
					MRU	82	0.86	0.86	3.76	-8.751	-8.907	-3.238					
					106+26	84	0.92	0.87	3.80	-8.861	-9.128	-3.402					
			80MHz	0.14	0.12	0.02	2.62	6545 (Straddle)	119	SU	--	8.98	8.95	12.00	-8.630	-8.688	-2.889
										37	-3.30	-3.29	-0.26	-8.803	-8.831	-3.067	
										45	-3.26	-3.47	-0.33	-8.835	-9.204	-3.265	
52	-3.32	-3.33						-0.29	-8.972	-8.867	-3.169						
6705	151	SU						--	9.23	9.23	12.13	-8.157	-8.223	-2.650			
		37						-3.04	-3.03	-0.13	-8.524	-8.223	-2.851				
		45				-3.02	-3.09	-0.15	-8.451	-8.610	-3.009						
0.07	2.69	6865 (Straddle)				183	52T	--	9.24	9.18	12.29	-8.486	-8.527	-2.666			
							37	-3.04	-3.02	0.05	-8.588	-8.589	-2.768				
							45	-3.10	-3.06	0.00	-8.528	-8.578	-2.733				
		6665				143	SU	--	11.48	11.47	14.38	-8.482	-8.264	-2.721			
							484T	65	6.23	6.23	9.13	-8.173	-7.766	-2.564			
			S66	6.22	6.23		9.13	-8.161	-7.847	-2.601							
0.07	2.69	6825 (Straddle)	175	SU	--	11.41	11.45	14.51	-8.151	-8.129	-2.190						
				484T	65	6.21	6.19	9.28	-8.097	-8.312	-2.503						
				S66	6.19	6.17	9.26	-8.236	-8.301	-2.568							

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)





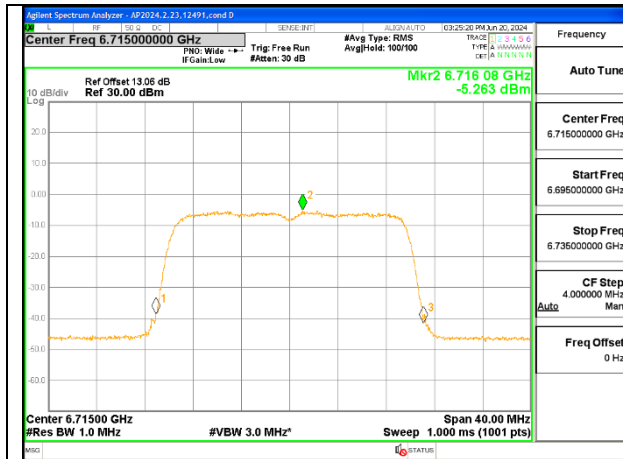
9.4.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND – LOW POWER

LP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.11	2.39	6535	117	SU	--	5.70	5.74	8.62	-5.387	-5.447	-2.517
							0	-3.34	-3.32	-0.43	-6.349	-5.990	-3.265	
							4	-3.39	-3.33	-0.46	-6.842	-6.861	-3.951	
					8	-3.32	-3.32	-0.42	-5.984	-6.040	-3.112			
					26T	--	5.67	5.68	8.58	-5.263	-5.304	-2.383		
					0	-3.31	-3.31	-0.41	-6.249	-5.824	-3.131			
			0.07	2.69	6875 (Straddle)	185	26T	--	5.69	5.67	8.76	-5.419	-5.194	-2.225
							0	-3.27	-3.30	-0.20	-6.115	-6.047	-3.001	
							4	-3.36	-3.34	-0.27	-7.245	-6.961	-4.020	
					8	-3.32	-3.32	-0.24	-6.128	-5.849	-2.906			
					SU	--	8.74	8.67	11.61	-4.789	-4.846	-1.917		
					0	-3.32	-3.32	-0.24	-6.128	-5.849	-2.906			
40MHz	0	0	-0.11	2.39	6565	123	SU	--	8.74	8.67	11.61	-4.789	-4.846	-1.917
							MRU	82	3.42	3.43	6.33	-5.265	-5.212	-2.338
							106+26	84	3.43	3.47	6.35	-5.144	-4.961	-2.151
					T	85	3.47	3.47	6.37	-5.242	-4.940	-2.188		
					SU	--	8.72	8.71	11.62	-4.684	-4.592	-1.737		
					MRU	82	3.48	3.43	6.36	-4.900	-4.856	-1.978		
			0.07	2.69	6685	147	106+26	84	3.42	3.48	6.35	-4.926	-4.875	-2.000
							T	85	3.48	3.44	6.36	-4.936	-4.671	-1.901
							SU	--	8.68	8.72	11.60	-4.942	-4.882	-2.012
					MRU	82	3.44	3.48	6.36	-5.161	-4.925	-2.141		
					106+26	84	3.41	3.46	6.34	-4.830	-4.929	-1.979		
					T	85	3.41	3.46	6.34	-4.917	-4.890	-2.003		
80MHz	0.3	0	0.02	2.62	6545 (Straddle)	119	SU	--	11.70	11.71	14.74	-4.677	-4.432	-1.222
							37	-0.55	-0.53	2.49	-5.657	-5.630	-2.613	
							45	-0.53	-0.52	2.51	-5.605	-5.870	-2.705	
					52	-0.58	-0.57	2.46	-5.749	-5.655	-2.671			
					SU	--	11.73	11.72	14.63	-4.709	-4.552	-1.429		
					37	-0.53	-0.55	2.36	-5.239	-5.339	-2.388			
			-0.11	2.39	6705	151	52T	45	-0.57	-0.56	2.34	-5.371	-5.224	-2.397
							52	-0.58	-0.53	2.35	-5.332	-5.301	-2.416	
							SU	--	11.71	11.74	14.81	-4.617	-4.491	-1.173
					37	-0.56	-0.56	2.52	-5.446	-5.404	-2.345			
					52T	45	-0.57	-0.59	2.50	-5.395	-5.478	-2.356		
					52	-0.52	-0.57	2.54	-5.403	-5.195	-2.217			
160MHz	0.5	0	-0.11	2.39	6665	143	SU	--	13.96	13.96	16.86	-5.337	-5.460	-1.998
							65	8.67	8.74	11.61	-5.437	-5.421	-2.529	
							S66	8.67	8.68	11.58	-5.626	-5.474	-2.649	
					SU	--	13.97	13.94	17.04	-5.343	-5.158	-1.669		
					65	8.69	8.72	11.79	-5.147	-5.095	-2.041			
					S66	8.74	8.68	11.79	-5.146	-5.595	-2.284			
			0.07	2.69	6825 (Straddle)	175	484T	65	8.67	8.74	11.61	-5.437	-5.421	-2.529
							S66	8.67	8.68	11.58	-5.626	-5.474	-2.649	
							SU	--	13.97	13.94	17.04	-5.343	-5.158	-1.669
					484T	65	8.69	8.72	11.79	-5.147	-5.095	-2.041		
					S66	8.74	8.68	11.79	-5.146	-5.595	-2.284			
					SU	--	13.96	13.96	16.86	-5.337	-5.460	-1.998		

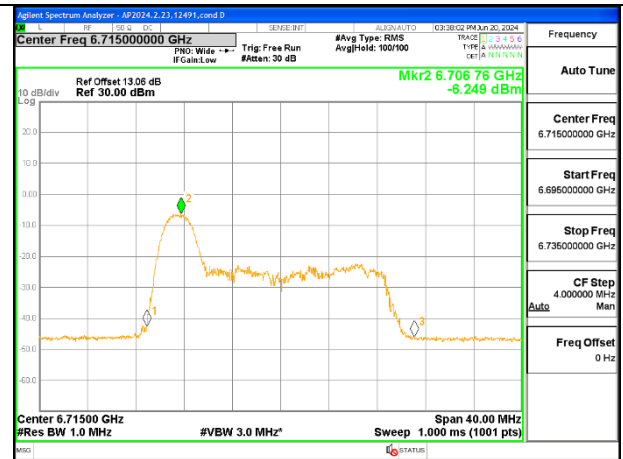
Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

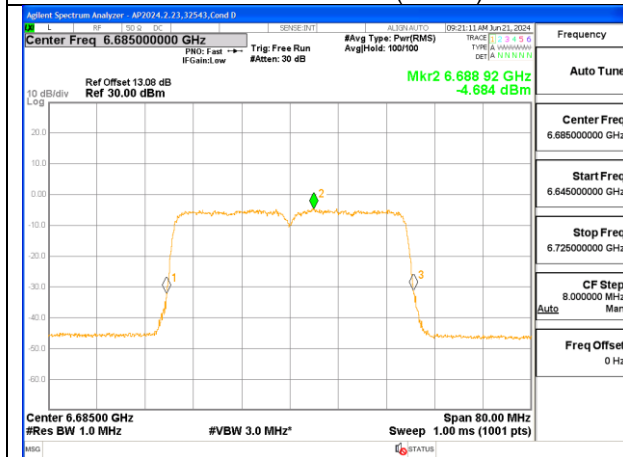
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



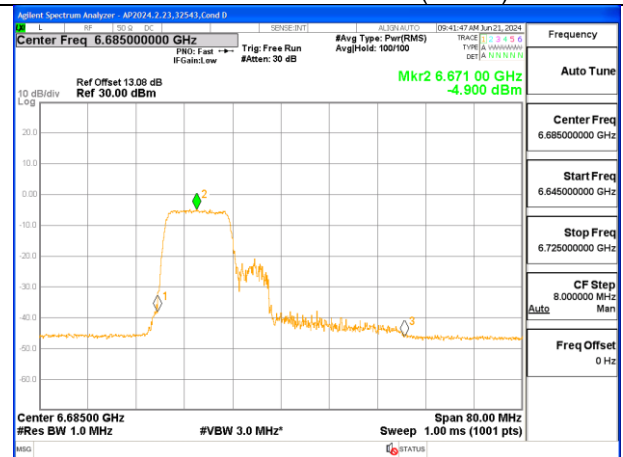
20MHz - Mid Channel – SU (UNII-7) – Ant 1



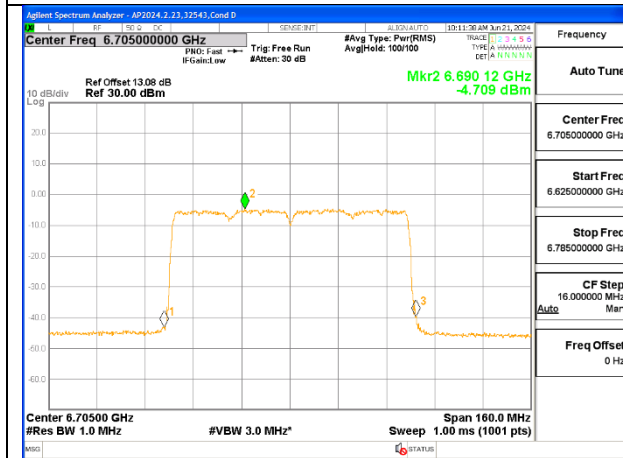
20MHz - Mid Channel – 26T-RU0 (UNII-7) – Ant 1



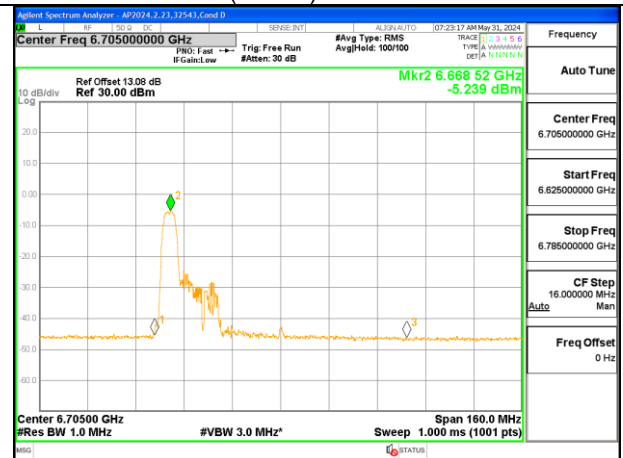
40MHz - Mid Channel – SU (UNII-7) – Ant 1



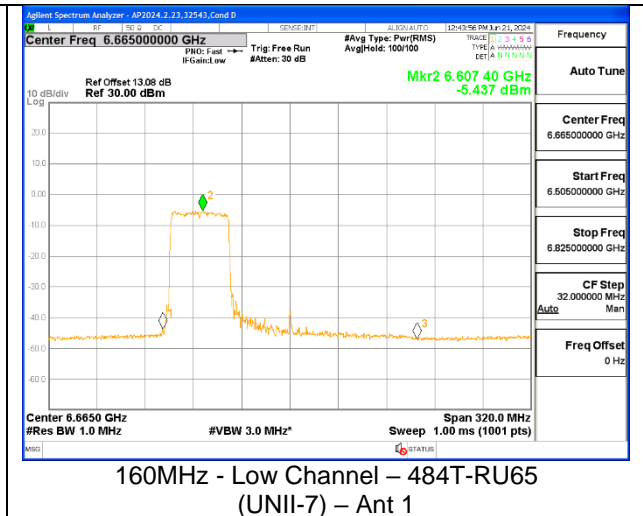
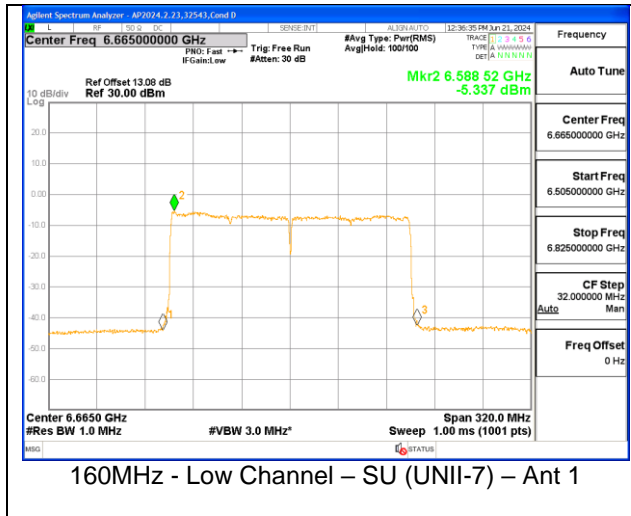
40MHz - Mid Channel – MRU106+26T-RU82 (UNII-7) – Ant 1



80MHz - Mid Channel – SU (UNII-7) – Ant 1



80MHz - Mid Channel – 52T-RU37 (UNII-7) – Ant 1



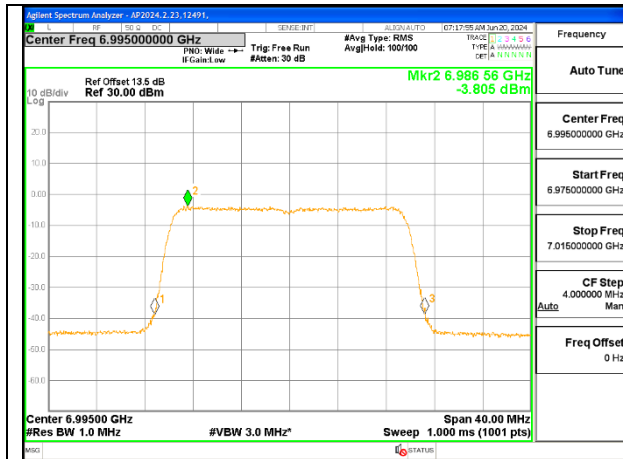
9.4.10. 802.11be SISO MODE IN THE UNII-8 BAND – LOW POWER

LP UNII-8 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)						
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2					
																	Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	0	0	1.00	-3.50	6895	189	SU	--	7.69	7.73	8.69	4.23	-4.216	-3.685	-3.216	-7.185					
							MRU	82	5.45	5.46	6.45	1.96	-3.877	-4.067	-2.877	-7.567					
							106+26T	83	5.41	5.41	6.41	1.91	-3.874	-3.933	-2.874	-7.433					
						6995	209	SU	--	7.67	7.72	8.67	4.22	-3.905	-3.805	-2.905	-7.305				
								MRU	82	5.46	5.44	6.46	1.94	-3.418	-3.564	-2.418	-7.064				
								106+26T	83	5.46	5.45	6.46	1.95	-3.664	-3.501	-2.664	-7.001				
					7095	229	SU	--	7.65	7.67	8.65	4.17	-4.390	-4.181	-3.390	-7.681					
							MRU	82	5.47	5.43	6.47	1.93	-4.135	-4.069	-3.135	-7.569					
							106+26T	83	5.46	5.46	6.46	1.96	-4.093	-4.021	-3.093	-7.521					
					7115	233	SU	--	-3.61	-3.55	-2.61	-7.05	-15.401	-15.698	-14.401	-19.198					
					40MHz	0	0.19	2.00	-3.50	6885 (Straddle)	187	SU	--	9.43	9.48	11.43	5.98	-5.585	-5.465	-3.585	-8.965
												MRU	82	4.23	4.19	6.23	0.69	-5.201	-5.381	-3.011	-8.691
106+26T	84	4.23	4.21	6.23								0.71	-5.119	-4.913	-2.929	-8.223					
85	4.22	4.16	6.22	0.66								-4.994	-5.148	-2.804	-8.458						
SU	--	10.72	10.71	11.72								7.21	-3.308	-3.569	-2.308	-7.069					
MRU	82	5.39	5.41	6.39								1.91	-3.709	-3.666	-2.519	-6.976					
6965	203	106+26T	84	5.43				5.48	6.43	1.98	-3.521	-3.527	-2.331	-6.837							
		85	5.48	5.45				6.48	1.95	-3.546	-3.891	-2.356	-7.201								
		SU	--	10.68				10.68	11.68	7.18	-3.174	-3.247	-2.174	-6.747							
		MRU	82	5.39				5.46	6.39	1.96	-3.374	-3.631	-2.184	-6.941							
		106+26T	84	5.39				5.47	6.39	1.97	-3.472	-3.480	-2.282	-6.790							
		85	5.46	5.39				6.46	1.89	-3.429	-3.720	-2.239	-7.030								
7085	227	SU	--	13.67	13.67	14.67	10.17	-3.358	-3.630	-2.218	-6.990										
		MRU	65	10.69	10.69	11.69	7.19	-4.022	-4.160	-2.902	-7.540										
		106+26T	66	10.68	10.65	11.68	7.15	-4.104	-4.099	-2.984	-7.479										
		SU	--	13.71	13.68	14.71	10.18	-3.428	-3.675	-2.288	-7.035										
		MRU	65	10.72	10.71	11.72	7.21	-4.048	-4.187	-2.928	-7.567										
		106+26T	66	10.71	10.69	11.71	7.19	-3.905	-4.274	-2.785	-7.654										
80MHz	0.14	0.12	1.00	-3.50	6945	199	SU	--	15.93	15.94	16.93	12.44	-3.188	-3.268	-1.938	-6.518					
							MRU	65	10.71	10.66	11.71	7.16	-3.144	-3.102	-2.144	-6.602					
							106+26T	66	10.68	10.67	11.68	7.17	-3.465	-3.615	-2.465	-7.115					
			7025	215	484T	--	13.67	13.67	14.67	10.17	-3.358	-3.630	-2.218	-6.990							
					65	10.69	10.69	11.69	7.19	-4.022	-4.160	-2.902	-7.540								
					66	10.68	10.65	11.68	7.15	-4.104	-4.099	-2.984	-7.479								
6985	207	SU	--	13.71	13.68	14.71	10.18	-3.428	-3.675	-2.288	-7.035										
		MRU	65	10.72	10.71	11.72	7.21	-4.048	-4.187	-2.928	-7.567										
		106+26T	66	10.71	10.69	11.71	7.19	-3.905	-4.274	-2.785	-7.654										
160MHz	0.25	0	1.00	-3.50	6985	207	SU	--	15.93	15.94	16.93	12.44	-3.188	-3.268	-1.938	-6.518					
							MRU	65	10.71	10.66	11.71	7.16	-3.144	-3.102	-2.144	-6.602					
							106+26T	66	10.68	10.67	11.68	7.17	-3.465	-3.615	-2.465	-7.115					

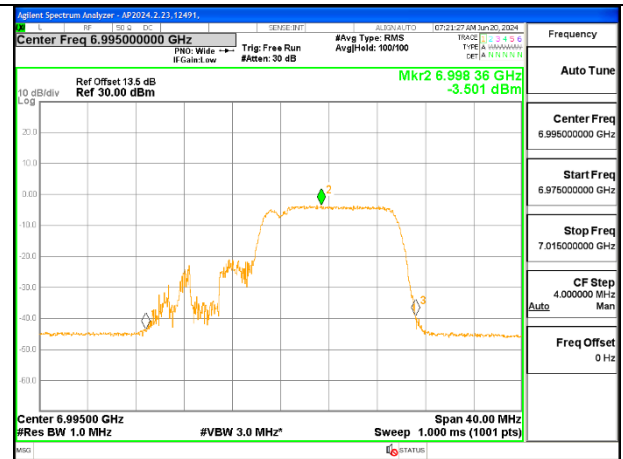
Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

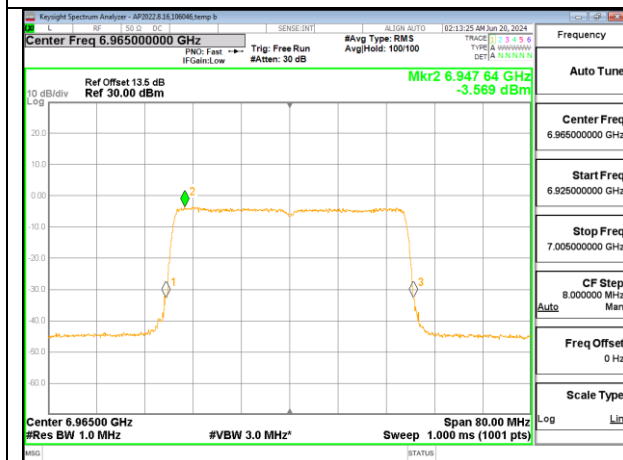
EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



20MHz - Mid Channel - SU (UNII-8) - Ant 2



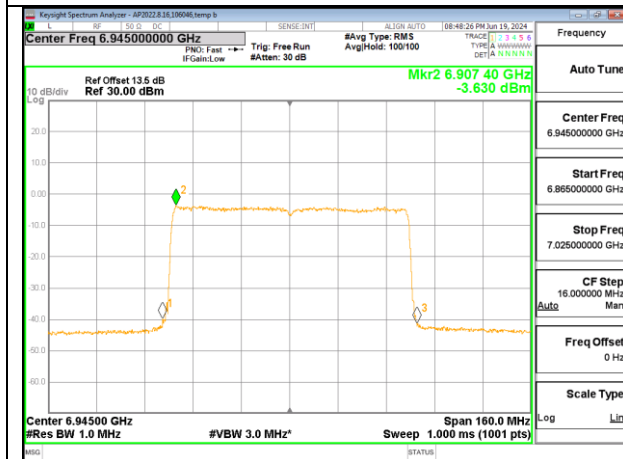
20MHz - Mid Channel - MRU106+26T-RU83 (UNII-8) - Ant 2



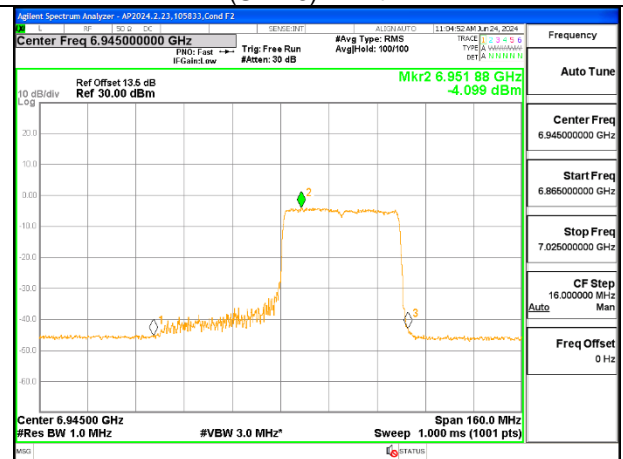
40MHz - Mid Channel - SU (UNII-8) - Ant 2



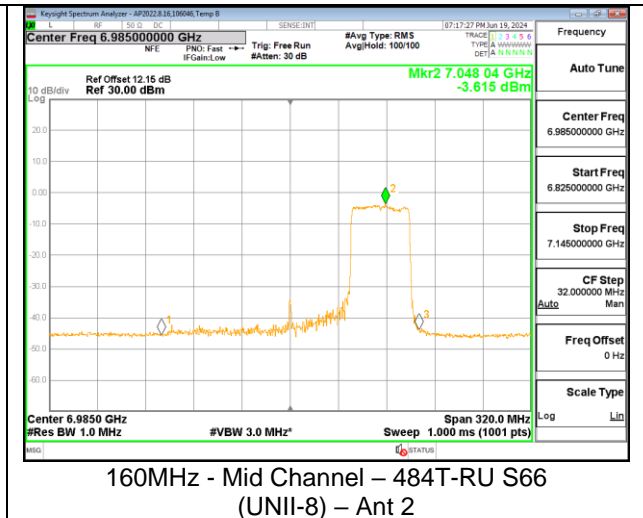
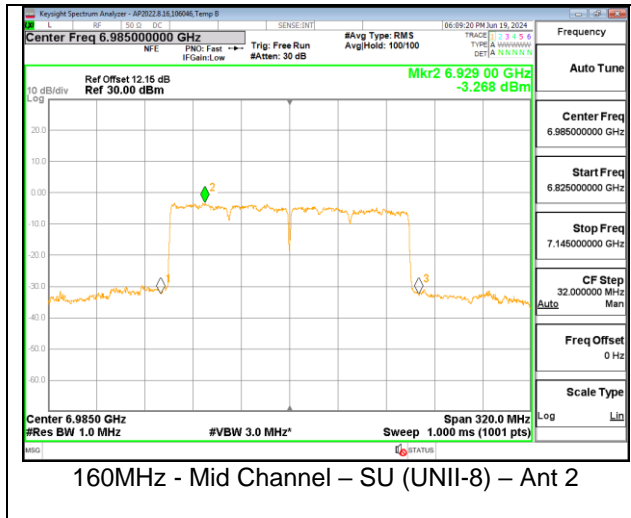
40MHz - Mid Channel - MRU106+26T-RU85 (UNII-8) - Ant 2



80MHz - Low Channel - SU (UNII-8) - Ant 2



80MHz - Low Channel - 484T-RU66 (UNII-8) - Ant 2



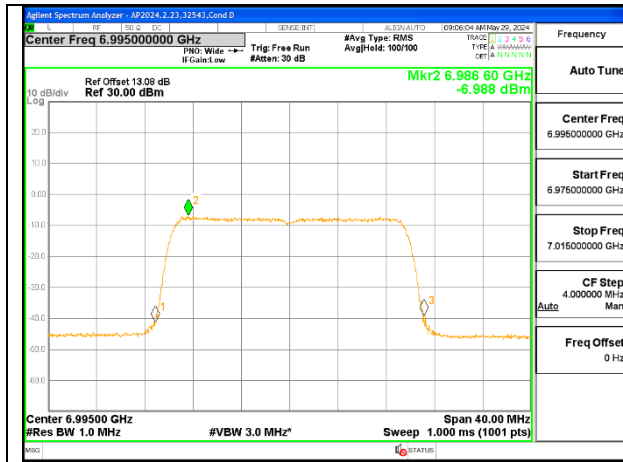
9.4.11. 802.11be MIMO CDD MODE IN THE UNII-8 BAND – LOW POWER

LP CDD UNII-8 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)					
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2						
20MHz	0	0	-0.69	2.05	6895	189	SU	--	3.44	3.39	5.74	-7.372	-7.332	-2.292					
							MRU	82	1.21	1.16	3.51	-6.930	-6.972	-1.891					
							106+26T	83	1.16	1.23	3.52	-6.942	-6.737	-1.778					
						209	SU	--	3.47	3.42	5.77	-6.988	-7.205	-2.035					
							MRU	82	1.24	1.23	3.56	-6.631	-6.740	-1.625					
							106+26T	83	1.17	1.18	3.50	-6.718	-6.610	-1.603					
					229	SU	--	3.44	3.45	5.77	-7.406	-7.358	-2.322						
						MRU	82	1.24	1.20	3.54	-6.891	-6.855	-1.813						
						106+26T	83	1.24	1.11	3.50	-7.070	-6.854	-1.900						
					7115	233	SU	--	-4.59	-4.56	-2.25	-16.081	-16.388	-11.171					
					40MHz	0	0.19	-0.69	2.05	6885 (Straddle)	187	SU	--	6.16	6.24	9.28	-8.865	-8.862	-3.163
												MRU	82	0.90	0.91	3.99	-7.278	-7.239	-1.368
106+26T	84	0.89	0.95	4.00								-7.286	-7.229	-1.367					
203	85	0.93	0.91	4.00							-7.411	-7.183	-1.405						
	SU	--	6.37	6.35							8.68	-8.399	-8.075	-3.174					
	MRU	82	1.23	1.16							3.52	-6.755	-6.629	-1.441					
227	84	1.16	1.15	3.48						-6.509	-6.683	-1.345							
	106+26T	85	1.21	1.21						3.53	-6.943	-6.632	-1.534						
	SU	--	6.40	6.31						8.68	-8.169	-8.234	-3.141						
7085	227	MRU	82	1.20						1.21	3.53	-6.895	-6.814	-1.604					
		84	1.19	1.23						3.53	-6.880	-6.739	-1.559						
		106+26T	85	1.16						1.24	3.52	-6.590	-6.856	-1.471					
	6945	199	SU	--						9.46	9.45	11.78	-7.942	-7.648	-2.592				
			484T	65						6.46	6.46	8.78	-8.051	-8.082	-2.886				
			66	6.47						6.39	8.75	-8.172	-7.952	-2.880					
215		SU	--	9.48						9.46	11.79	-7.529	-7.426	-2.277					
		484T	65	6.45						6.47	8.78	-7.792	-7.711	-2.571					
		66	6.41	6.46						8.76	-7.727	-7.948	-2.656						
160MHz	0.25	0	-0.69	2.05	6985	207	SU	--	11.69	11.46	13.90	-7.209	-7.472	-2.028					
							484T	65	6.48	6.47	8.80	-7.227	-7.402	-2.253					
							S66	6.44	6.45	8.77	-7.602	-7.401	-2.440						

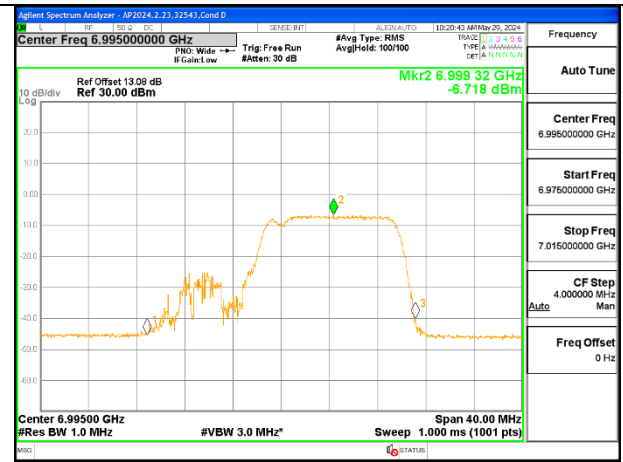
Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

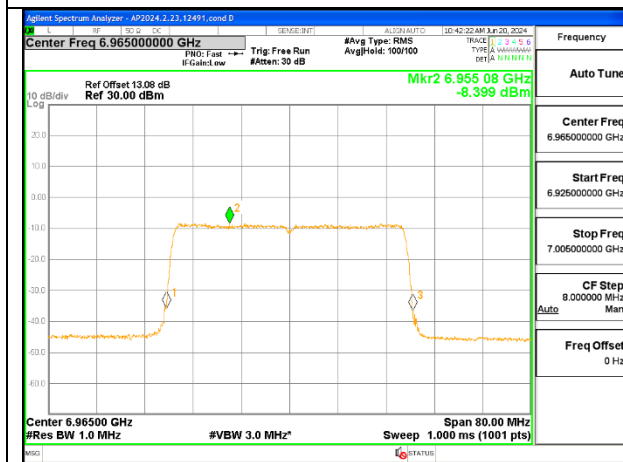
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



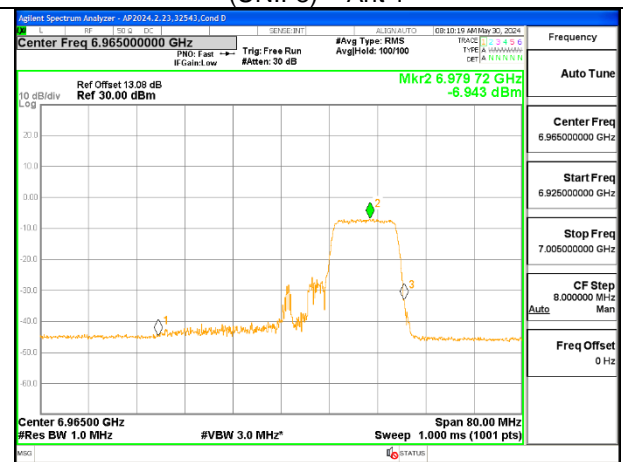
20MHz - Mid Channel – SU (UNII-8) – Ant 1



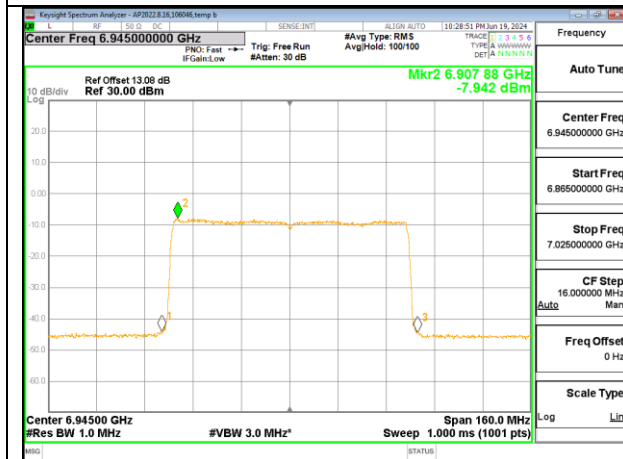
20MHz - Mid Channel – MRU106+26T-RU83 (UNII-8) – Ant 1



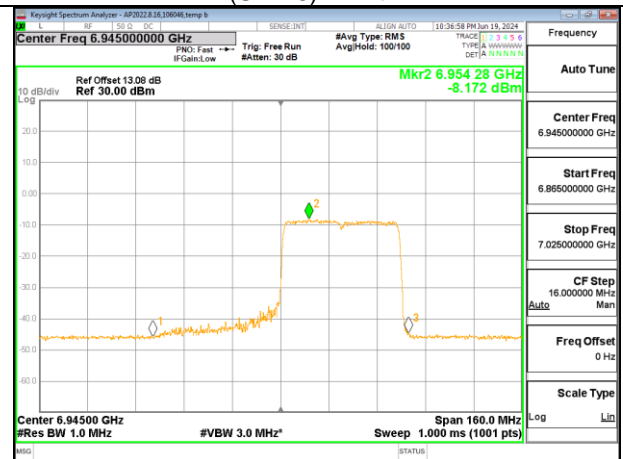
40MHz - Mid Channel – SU (UNII-8) – Ant 1



40MHz - Mid Channel – MRU106+26T-RU85 (UNII-8) – Ant 1



80MHz - Low Channel – SU (UNII-8) – Ant 1



80MHz - Low Channel – 484T-RU66 (UNII-8) – Ant 1