

TEST REPORT

Report Number: 14982485-E10V5

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

Model : A3286 (Parent Model)
A3287, A3288 (Variant Models)

Brand : APPLE

FCC ID : BCG-E8689A (Parent Model)
BCG-E8690A, BCG-8691A (Variant Models)

EUT Description : SMARTPHONE

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

Date Of Issue:
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Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538 U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024/08/02	Initial Review	Francisco Guarnero
V2	2024/08/08	Address TCB Questions	Francisco Guarnero
V3	2024/08/14	Additional TCB Questions in 9.4 and 9.6 Updated section 2, 9.2 and 9.3 to identify the 320MHz limit for emissions bandwidths	Francisco Guarnero
V4	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
V5	2024/08/27	Updated Section 10 to add set up diagram	Tony Li

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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	A3286 (Parent Model), A3287, A3288 (Variant Models)
Brand	APPLE
FCC ID	BCG-E8689A (Parent Model) BCG-E8690A, BCG-8691A (Variant Models)
EUT Description	SMARTPHONE
Serial Number	C07H1B0003R0000FGT, C07H5T000LS0000FGU (Conducted) J431DW3433, XFDJ2H4LVW (Radiated)
Sample Receipt Date	2024/01/18
Date Tested	2024/03/12 to 2024/08/08
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.	Francisco Guarnero Senior 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 correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

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

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

Requirement Description	Requirement Clause Number (FCC)	Result	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
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

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

5.2. DECISION RULES

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

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB (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, 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 802.11ax and 802.11be Wifi radio.

6.1.1. EUT DEVICE CLASS

Dual Client (6CD)	U-NII Bands of Operation			
	5	6	7	8
Indoor Client	☒	☒	☒	☒
Standard Client	☒	☐	☒	☐

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	8.53	7.13
5965-6405	802.11be EHT40	11.62	14.52
5985-6385	802.11be EHT80	14.64	29.11
6025-6345	802.11be EHT160	16.89	48.87
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	6.01	3.99
5955-6415	802.11be EHT20 SDM	8.96	7.87
5965-6405	802.11be EHT40 CDD	9.05	8.04
5965-6405	802.11be EHT40 SDM	12.03	15.96
5985-6385	802.11be EHT80 CDD	12.15	16.41
5985-6385	802.11be EHT80 SDM	15.04	31.92
6025-6345	802.11be EHT160 CDD	14.36	27.29
6025-6345	802.11be EHT160 SDM	17.29	53.58

UNII-6 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-6 Band, 1TX			
6435 - 6515	802.11be EHT20	8.59	7.23
6445 - 6525	802.11be EHT40	11.48	14.06
6465	802.11be EHT80	14.49	28.12
6505	802.11be EHT160, Straddle Channel	16.75	47.32
UNII-6 band, 2TX			
6435 - 6515	802.11be EHT20 CDD	5.81	3.81
6435 - 6515	802.11be EHT20 SDM	8.68	7.38
6445 - 6525	802.11be EHT40 CDD	8.71	7.43
6445 - 6525	802.11be EHT40 SDM	11.72	14.86
6465	802.11be EHT80 CDD	11.70	14.79
6465	802.11be EHT80 SDM	14.63	29.04
6505	802.11be EHT160 CDD Straddle	14.03	25.29
6505	802.11be EHT160 SDM Straddle	17.01	50.23

UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535 - 6875	802.11be EHT20	8.75	7.50
6565 - 6845	802.11be EHT40	11.74	14.93
6545 - 6865	802.11be EHT80	14.74	29.79
6665 - 6825	802.11be ETH160	16.99	50.00
UNII-7 Band 2TX			
6535-6875	802.11be ETH20 CDD	5.69	3.71
6535-6875	802.11be EHT20 SDM	8.70	7.41
6565-6845	802.11be EHT40 CDD	8.64	7.31
6565-6845	802.11be EHT40 SDM	11.69	14.76
6545-6865	802.11be EHT80 CDD	11.78	15.07
6545-6865	802.11be EHT80 SDM	14.72	29.65
6665-6825	802.11be EHT160 CDD	13.94	24.77
6665-6825	802.11be EHT160 SDM	16.95	49.55

UNII-8 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-8 Band 1TX			
6895-7115	802.11be EHT20	8.74	7.48
6885-7085	802.11be EHT40	11.74	14.93
6945-7025	802.11be EHT80	14.72	29.65
6985	802.11be EHT160	16.39	43.55
UNII-8 Band 2TX			
6895-7115	802.11be EHT20 CDD	5.65	3.67
6895-7115	802.11be EHT20 SDM	8.60	7.24
6885-7085	802.11be EHT40 CDD	8.68	7.38
6885-7085	802.11be EHT40 SDM	11.67	14.69
6945-7025	802.11be EHT80 CDD	11.61	14.49
6945-7025	802.11be EHT80 SDM	14.47	27.99
6985	802.11be EHT160 CDD	13.81	24.04
6985	802.11be EHT160 SDM	16.89	48.87

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	20.75	118.85
5965-6405	802.11be EHT40	20.70	117.49
5985-6385	802.11be EHT80	20.76	119.12
6025-6345	802.11be EHT160	20.78	119.67
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	22.16	164.44
5955-6415	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
5965-6405	802.11be EHT40 CDD	22.15	164.06
5955-6405	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
5985-6385	802.11be EHT80 CDD	22.17	164.82
5985-6385	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6025-6345	802.11be EHT160 CDD	22.22	166.72
6025-6345	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535-6855	802.11be EHT20	18.41	69.34
6565-6845	802.11be EHT40	18.47	70.31
6625-6785	802.11be EHT80	18.47	70.31
6665	802.11be EHT160	18.44	69.82
UNII-7 Band 2TX			
6535-6855	802.11be EHT20 CDD	20.81	120.50
6535-6855	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
6565-6845	802.11be EHT40 CDD	20.82	120.78
6565-6845	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
6625-6785	802.11be EHT80 CDD	20.79	119.95
6625-6785	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6665	802.11be EHT160 CDD	20.78	119.67
6665	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antennas gain and type, cable loss as provided by the manufacturer' are as follows:

Antenna 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)	1.3	-2.60	-0.23	2.58
	Sub-band 2 (6115 - 6255)	-0.70	-2.20	-1.39	1.59
	Sub-band 3 (6275 - 6415)	0.40	-2.40	-0.78	2.12
6425 - 6525 UNII-6	N/A	-0.40	-2.50	-1.32	1.62
UNII-6/7 (Straddle Channel)	N/A	-0.40	-1.90	-1.09	1.89
6525 - 6875 UNII-7	N/A	-0.50	-1.90	-1.14	1.84
UNII-7/8 (Straddle Channel)	N/A	-0.50	-1.90	-1.14	1.84
6875 - 7125 UNII-8	N/A	-2.00	-3.60	-2.73	0.25

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dB)	Antenna 5 (dB)
5925-6105	3.20	2.98
6105-6265	3.20	2.98
6265-6425	3.20	2.98
6425-6525	3.20	2.98
6525-6875	3.20	2.98
6875-7125	3.20	2.98

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

6.4. SOFTWARE AND FIRMWARE

The EUT firmware 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; Standard client mode was done with SISO and 2TX CDD modes as it has same output power levels in 2TX CDD and SDM modes and 2TX CDD mode was set for all antenna port tests after investigation.

The 802.11a mode 20MHz covered by the 802.11be 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, 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 mode 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 lowest 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 Client.

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

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

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

The maximum output power for A3081 and A3286/87/88 are identical across all power tables for ANT5 and ANT6 except on A3286/87/88 on LP for ANT6 for the following bands/mode:

6.5.1. LP

BW (MHz)	Tone (T)	RU Index	RU Index (Chipset Support only)	Worst Case Tone (UNII-5)		Worst Case Tone (UNII-6)		Worst Case Tone (UNII-7)		Worst Case Tone (UNII-8)	
				Highest Power	Highest PSD	Highest Power	Highest PSD	Highest Power	Highest PSD	Highest Power	Highest 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, 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								
80	SU	--	--	X		X		X		X	
	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 ~ 93	90, 91, 92, 93								
	996	67	67								
160	SU	--	--	X		X		X		X	
	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	90 ~ S93	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-7)	
				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, 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				
	996	67	67				
160	SU	--	--	X		X	
	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				
	996x2	S68	S68				
	SU	--	--	X		X	

6.5.3. REUSE STATEMENT AND COMPARISON TABLE

The maximum output power for A3081 and A3286/ A3287/ A3288 are identical across all power tables for ANT5 and ANT6 except on A3286/ A3287/ A3288 on LP mode for ANT6 for the following bands/mode:

BANDS	MAXIMUM OUTPUT POWER DIFFERENCE		
	SISO a/ HE/EHT20 All Rates	2Tx CDD HE/EHT20 All Rates	2Tx SDM HE/EHT20 All Rates
UNII-5	LOWER (except CH 33-61, 6115-6255MHz - HIGHER)	LOWER	LOWER
UNII-6	*SAME	LOWER	*SAME
UNII-7	LOWER	LOWER	LOWER
UNII-8	HIGHER (except CH233 same power)		

BANDS	MAXIMUM OUTPUT POWER DIFFERENCE		
	SISO HE/EHT40 All Rates	2Tx CDD HE/EHT40 All Rates	2Tx SDM HE/EHT40 All Rates
UNII-5	LOWER (except CH 35-59, 6125-6245MHz - HIGHER)	LOWER	LOWER
UNII-6	*SAME	LOWER	*SAME CH99-CH107, 6445-6485MHz
UNII-7	LOWER	LOWER	LOWER
UNII-8	HIGHER (except CH187 6885MHz- LOWER)		

BANDS	MAXIMUM OUTPUT POWER DIFFERENCE		
	SISO HE/EHT80 All Rates	2Tx CDD HE/EHT80 All Rates	2Tx SDM HE/EHT80 All Rates
UNII-5	LOWER (except CH 39-55, 6145-6225MHz - HIGHER)	LOWER	LOWER
UNII-6	*SAME	LOWER	*SAME
UNII-7	SAME- CH119, 6545MHz only, LOWER- Other CHs	LOWER	LOWER
UNII-8	HIGHER	HIGHER	HIGHER

BANDS	MAXIMUM OUTPUT POWER DIFFERENCE		
	SISO HE/EHT160 All Rates	2Tx CDD HE/EHT160 All Rates	2Tx SDM HE/EHT160 All Rates
UNII-5	LOWER (except CH 47, 6185MHz- HIGHER)	LOWER	LOWER
UNII-6	*SAME	LOWER	LOWER
UNII-7	LOWER	LOWER	LOWER
UNII-8	SAME- SU mode HIGHER- Partial RU mode	HIGHER	HIGHER

* Data re-use from A3081 has been applied to A3286/A3287/A3288 due to identical power for ANT6.

According to the LP mode output power changed mentioned on above table and antenna gain increased on UNII-5 to UNII-8 as documented in section 6.3, model A3286 ANT6 port was retested on Output power, PSD and Emission mask and radiated tests to cover model A3287/A3288.

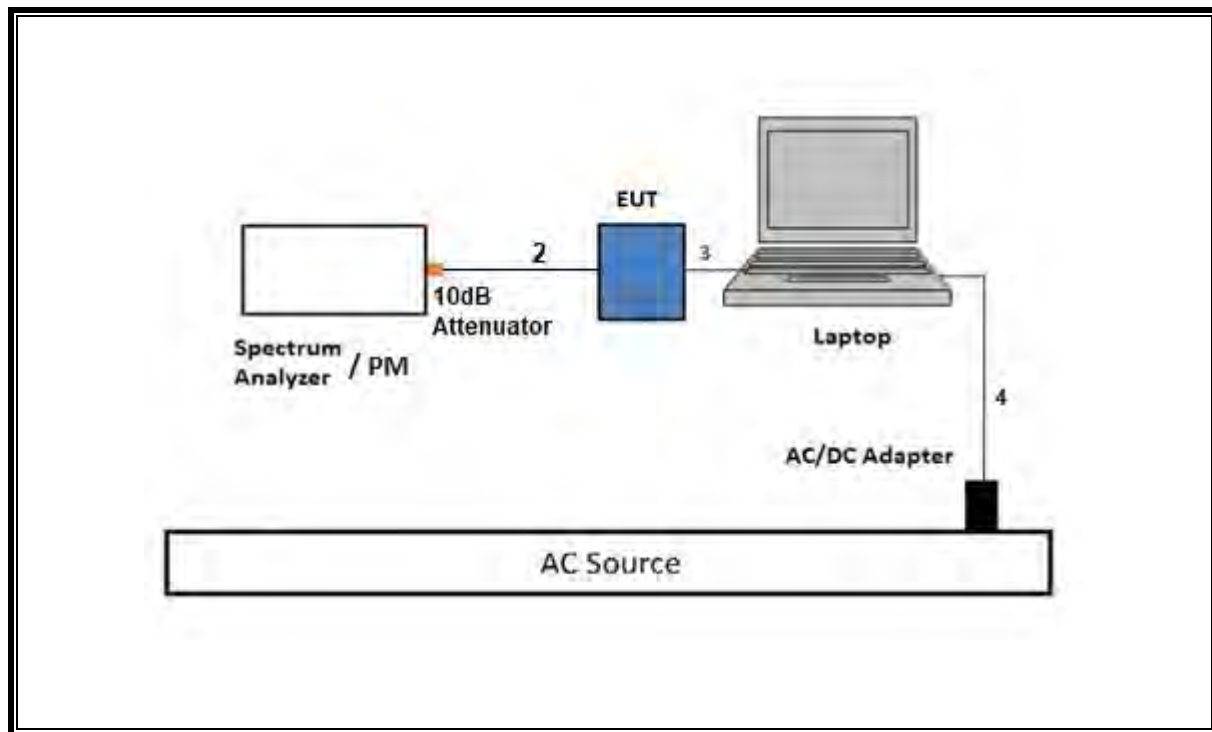
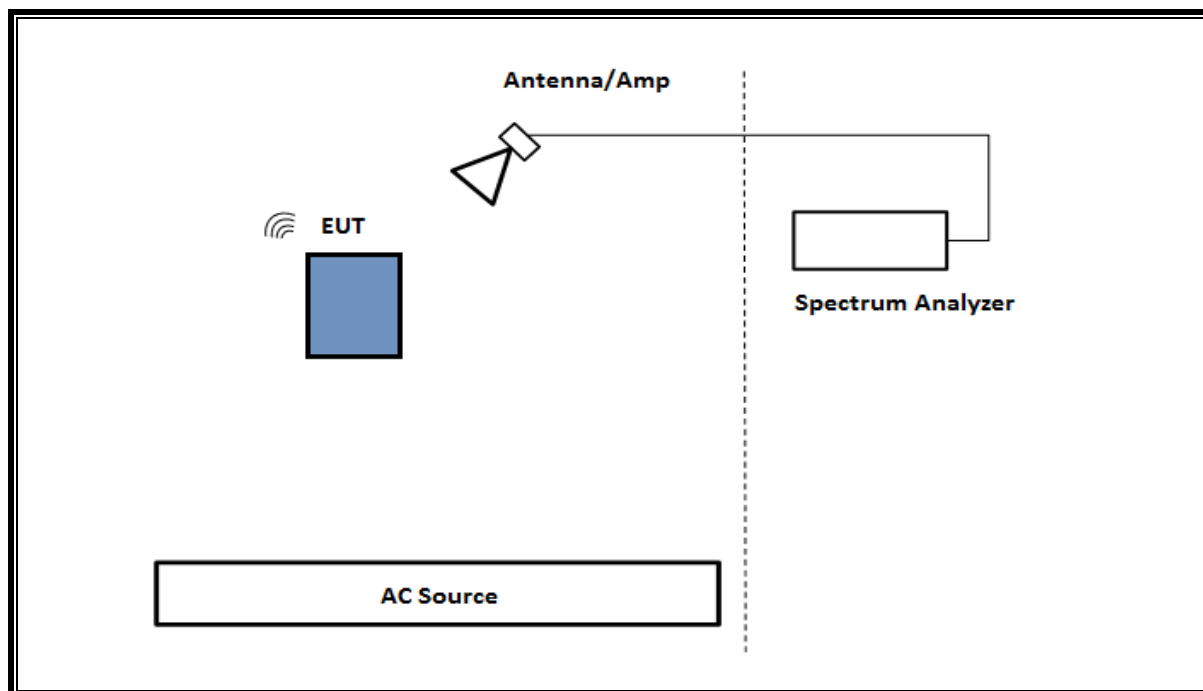
And ANT5 rf conducted test results and SISO mode radiated band edge test results are reused from the reference model, A3081. The data reuse plan has been approved by FCC manufacturer inquiry.

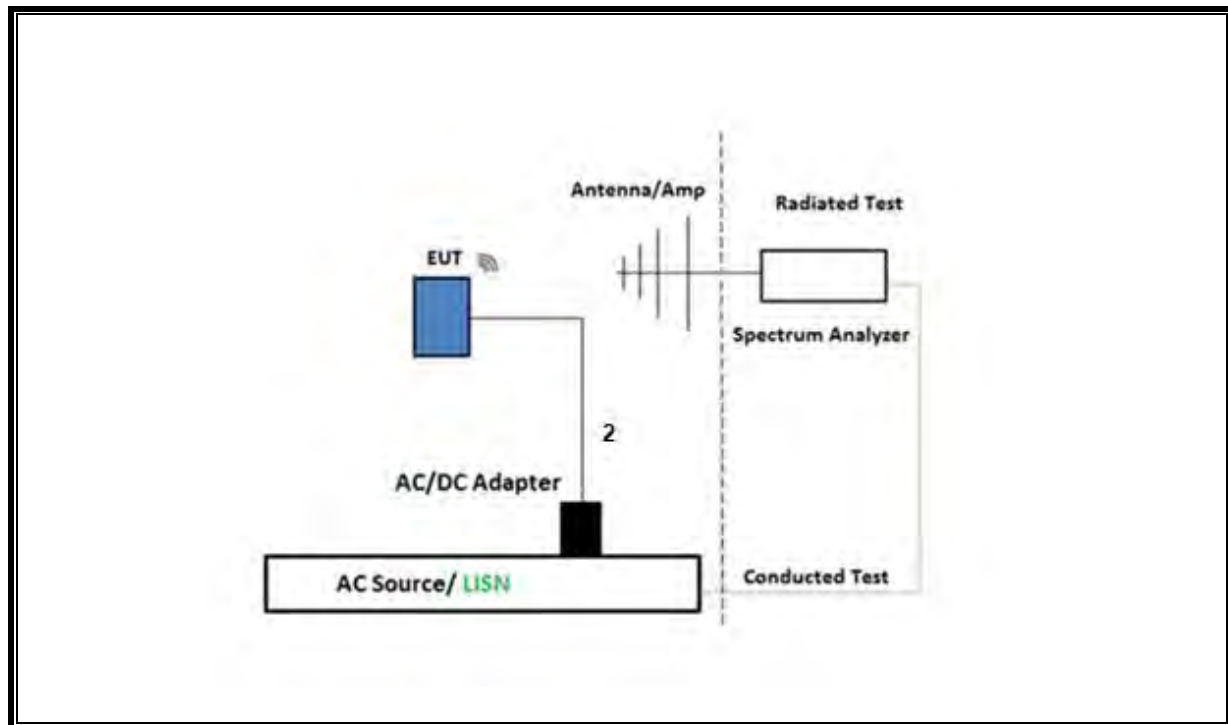
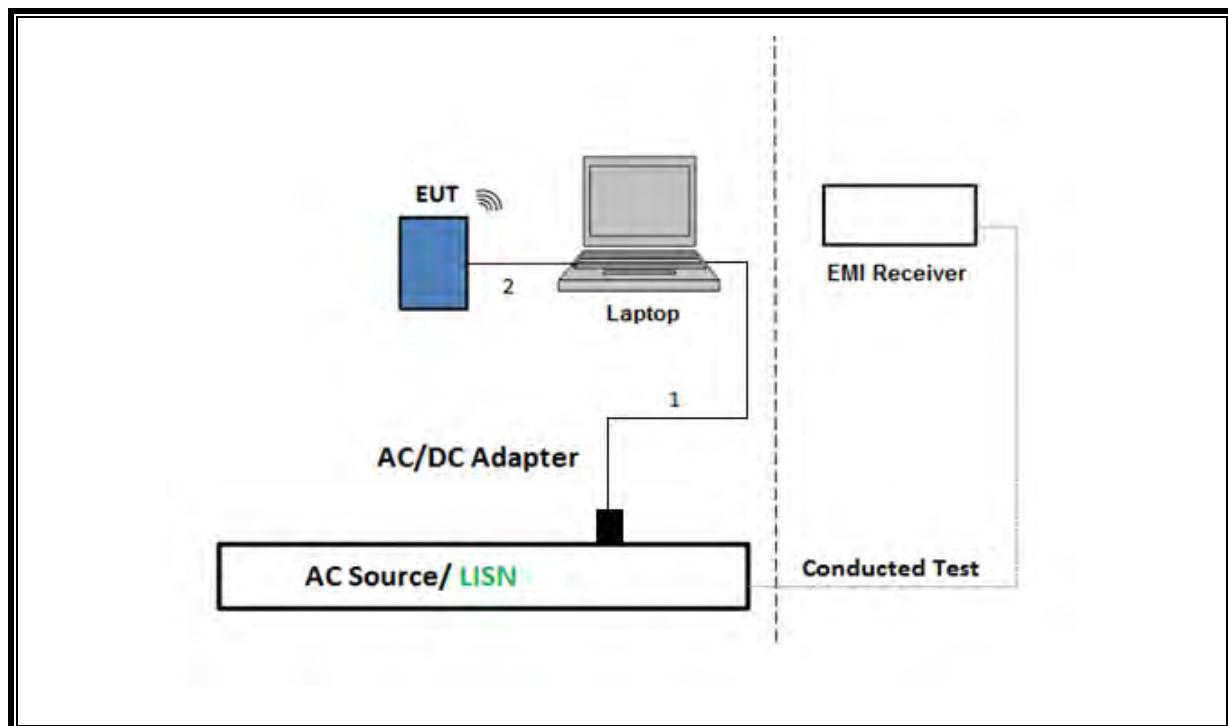
6.6. DESCRIPTION OF TEST SETUP

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	
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 RADIATED TESTS 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
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200785	2024/10/31
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	230878	2025/05/16
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206805	2024/07/31
RF Filter Box, 1-18GHz, 7 port Simplified	UL-FR1	F3A, 3Amplifier, Rats3 simplified version	243707	2025/02/22
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	230548	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80402	2024/07/31
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	216812	2025/01/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206805	2024/07/31
RF Filter Box, 1-18GHz, 7 port Simplified	UL-FR1	F3A, 3Amplifier, Rats3 simplified version	243707	2025/02/22
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223459	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226672	2026/02/28
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231876	2025/04/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201502	2025/02/28
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	82258	2024/10/31
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	204041	2024/10/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2025/02/28
RF Filter Box, 1-18GHz, 17 Ports	RF Filter Box, 1-18GHz, 17 Ports	RATS 2	225575	2025/04/27
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81139	2024/08/31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2024/08/31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	81105	2024/08/31
RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	221834	2025/03/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2025/02/28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80430	2024/08/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2025/02/28
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225079	2025/04/30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	223084	2024/10/31

Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170014	2024/08/31
Antenna, Passive Loop 100kHz to 30MHz	ELECTRO-METRICS	EM-6872	170016	2024/08/31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90731	2025/01/31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	80120	2025/01/31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90719	2025/01/31
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178557	Verified Before Use
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178558	Verified Before Use
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90389	2025/01/31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2025/01/31
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight Technologies Inc	N9030A	80400	2025/02/02
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2025/01/31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	222071	2024/11/30
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80396	2025/02/28
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	81188	2025/01/31
AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	93091	2025/02/28
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175765	2025/01/31
Transient Limiter	TE	TBFL1	207996	2024/08/31
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	

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

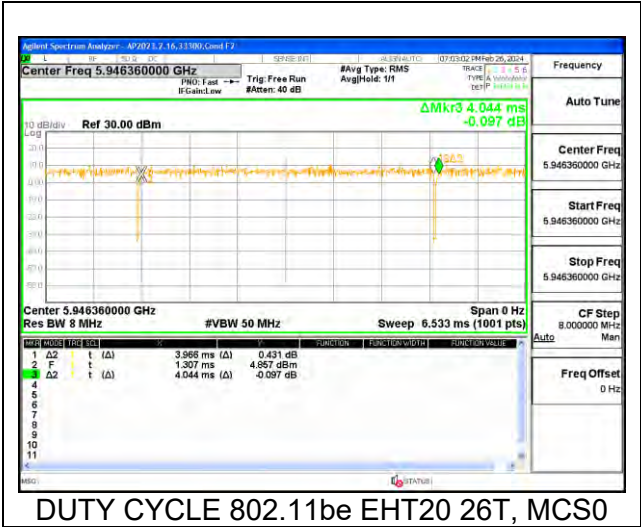
ON TIME AND DUTY CYCLE RESULTS

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	1.577	1.597	0.9875	98.75%	0.00	0.010
		MCS11	0.161	0.180	0.8917	89.17%	0.50	6.231
	(106+26)T	MCS0	3.547	3.567	0.9944	99.44%	0.00	0.010
		MCS11	0.263	0.285	0.9241	92.41%	0.34	3.801
	26T	MCS0	3.966	4.044	0.9807	98.07%	0.00	0.010
		MCS0	3.791	3.856	0.9831	98.31%	0.00	0.010
EHT40	SU	MCS0	1.560	1.584	0.9847	98.47%	0.00	0.010
		MCS11	0.144	0.178	0.8058	80.58%	0.94	6.964
	(106+26)T	MCS0	3.514	3.584	0.9805	98.05%	0.00	0.010
		MSC11	0.264	0.301	0.8768	87.68%	0.57	3.790
	242T	MSC0	3.041	3.063	0.9928	99.28%	0.00	0.010
		MCS11	0.234	0.256	0.9131	91.31%	0.39	4.275
EHT80	SU	MCS0	1.491	1.511	0.9868	98.68%	0.00	0.010
		MCS11	0.154	0.175	0.8838	88.38%	0.54	6.477
	52T	MCS0	3.794	3.854	0.9844	98.44%	0.00	0.010
		MCS11	0.277	0.316	0.8749	87.49%	0.58	3.615
	242T	MSC0	3.043	3.080	0.9880	98.80%	0.00	0.010
		MSC11	0.235	0.273	0.8613	86.13%	0.65	4.252
EHT160	SU	MCS0	3.990	4.022	0.9920	99.20%	0.00	0.010
		MSC11	0.293	0.315	0.9278	92.78%	0.33	3.417
	484T	MCS0	0.998	1.040	0.9596	95.96%	0.18	1.002
		MCS11	0.126	0.146	0.8626	86.26%	0.64	7.962
	242T	MCS0	3.990	4.029	0.9903	99.03%	0.00	0.010
		MCS11	0.293	0.315	0.9307	93.07%	0.31	3.416
EHT160	SU	MCS0	3.041	3.081	0.9870	98.70%	0.00	0.010
		MCS11	0.234	0.274	0.8536	85.36%	0.69	4.278

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	778.900	798.400	0.9756	97.56%	0.11	0.001
	26T	MCS0	3.992	4.029	0.9908	99.08%	0.00	0.010
	(106 + 26)T	MCS0	3.547	3.585	0.9894	98.94%	0.00	0.010
EHT40 SDM	SU	MCS0	773.300	793.100	0.9750	97.50%	0.11	0.001
	(106 + 26)T	MCS0	3.547	3.585	0.9894	98.94%	0.00	0.010
EHT80 SDM	SU	MCS0	736.900	758.600	0.9714	97.14%	0.13	0.001
	484T	MCS0	4.006	4.029	0.9943	99.43%	0.00	0.010
	52T	MCS0	3.790	3.858	0.9824	98.24%	0.00	0.010
EHT160 SDM	SU	MCS0	515.000	535.300	0.9621	96.21%	0.17	0.002
	484T	MCS0	4.008	4.028	0.9950	99.50%	0.00	0.010

Note: Duty cycle factors are the same for 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: 2020 §6.9

Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-8	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

ID:	32181 / 23560	Date:	02/02/24
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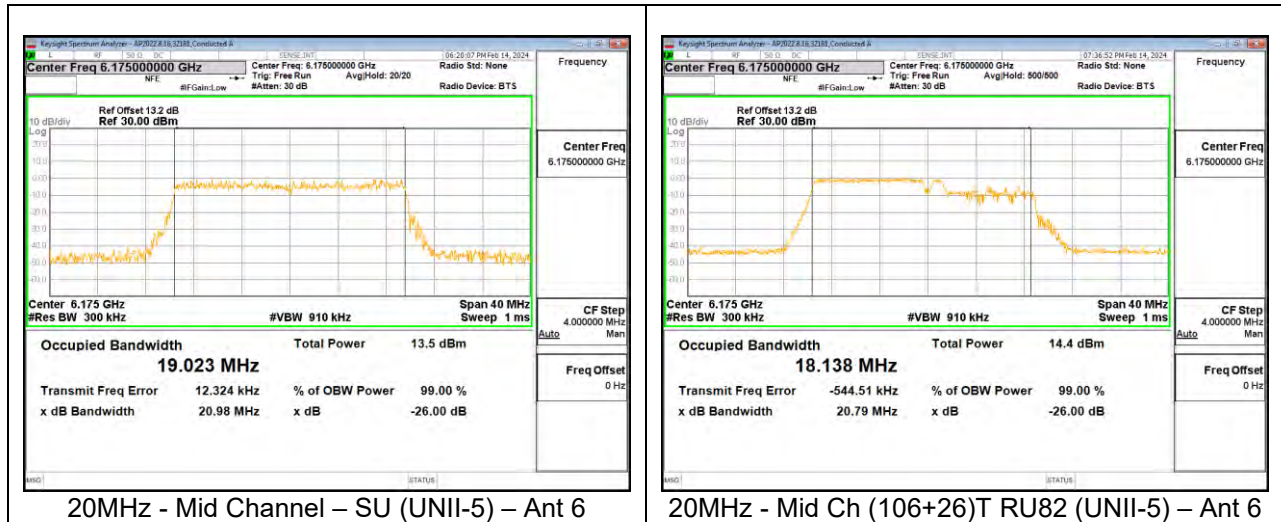
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

Plots in these sections serve as reference for settings of the different bandwidths measured.

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 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.8	20.99	19.0604	19.0080
			106+26	82	20.53	20.78	18.1100	18.1500
				83	21.13	21.16	18.1550	18.1350
	6175	45	SU	--	21.98	21.23	19.0230	18.9960
			106+26	82	20.79	20.13	18.1380	18.0140
				83	20.01	21.40	18.2630	18.2470
	6415	93	SU	--	21.92	21.50	19.0820	19.1340
			106+26	82	20.84	20.75	18.0880	18.0930
				83	20.50	21.28	18.2690	18.2830
40 MHz	5965	3	SU	--	42.32	42.48	37.9481	38.0620
			106+26	82	23.31	30.02	18.0030	20.0950
				84	27.62	28.06	20.1920	19.6600
				85	27.65	24.80	20.0830	18.1780
	6165	43	SU	--	42.56	42.40	37.9804	38.0350
			106+26	82	23.93	23.81	17.9150	17.9990
				84	27.35	21.16	19.63	19.65
				85	23.78	24.39	18.1040	18.1610
	6405	91	SU	--	42.48	42.72	37.9943	38.0140
			106+26	82	21.05	24.28	17.9890	17.9900
				84	26.62	28.45	19.6640	19.6530
				85	22.56	23.98	18.1690	18.1160
80MHz	5985	7	SU	--	84.16	82.37	77.4967	77.5230
			52	37	20.15	20.24	18.2150	18.2360
				45	23.23	24.79	20.5360	21.0430
				52	21.28	22.61	18.2480	18.5920
	6145	39	SU	--	83.68	82.40	77.5556	77.4660
			52	37	19.76	20.15	18.2020	18.2540
				45	24.29	23.25	20.2140	20.8170
				52	21.19	22.06	18.3050	18.3760
	6385	87	SU	--	83.68	84.48	77.4622	77.5268
			52	37	19.96	20.01	18.1130	18.0520
				45	22.60	22.77	20.5420	20.5240
				52	20.17	20.97	18.1320	18.1700
160MHz	6025	15	SU	--	169.92	169.60	157.1983	157.0553
			484	65	50.91	49.38	38.3900	38.5070
				S66	55.56	60.40	38.7130	38.5280
	6185	47	SU	--	170.24	170.56	157.3242	157.3908
			484	65	52.85	48.23	38.5180	38.2980
				S66	51.54	52.27	38.6500	38.5000
	6345	79	SU	--	170.24	169.28	157.3250	157.2501
			484	65	49.07	55.79	38.3390	38.5350
				S66	51.75	61.17	38.2690	38.2650



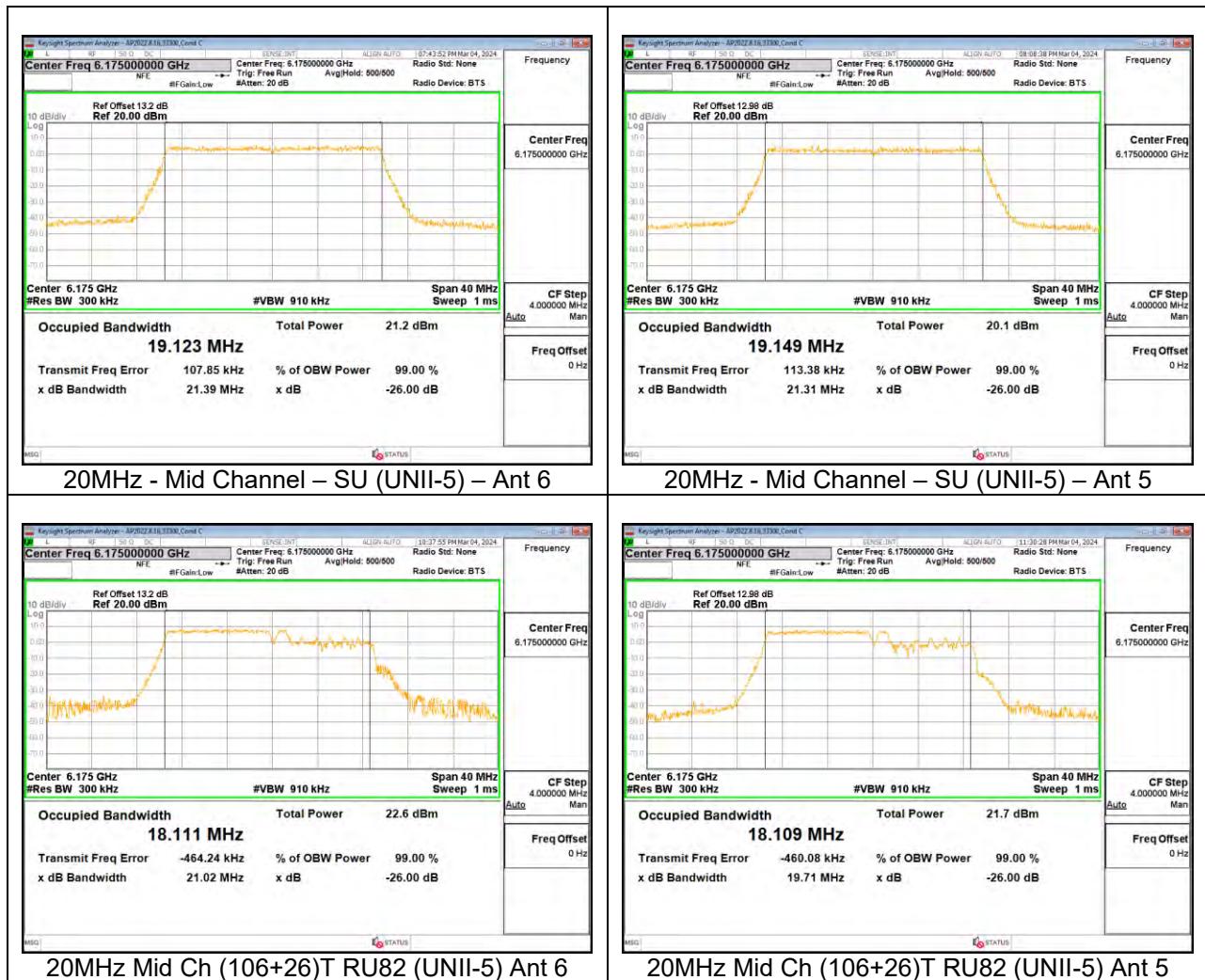
9.2.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND

UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.84	20.96	19.0337	19.0520
			106+26	82	20.70	19.75	18.0650	18.0720
				83	20.86	20.00	18.2260	17.9760
	6175	45	SU	--	20.86	20.69	19.0490	19.0600
			106+26	82	20.40	19.72	18.1010	18.1090
				83	20.87	20.02	18.1980	18.0100
	6415	93	SU	--	21.80	21.10	19.0416	19.1340
			106+26	82	20.58	19.72	18.1510	18.0910
				83	20.94	20.08	18.1870	18.0860
40 MHz	5965	3	SU	--	42.48	42.16	37.9650	38.0279
			106+26	82	22.93	20.05	17.9270	17.9290
				84	27.54	21.06	19.6020	19.3660
				85	24.30	20.30	18.1510	17.8780
	6165	43	SU	--	42.40	42.24	38.0130	38.0626
			106+26	82	23.73	19.64	18.0680	17.8370
				84	27.60	25.43	19.61	19.15
				85	24.18	20.45	18.1120	17.8610
	6405	91	SU	--	42.32	41.31	38.0549	38.0310
			106+26	82	23.12	20.00	18.0000	17.8560
				84	26.86	25.89	19.6980	19.1860
				85	24.59	20.23	18.1560	17.9300
80MHz	5985	7	SU	--	83.84	81.26	77.4790	77.5840
			52	37	19.68	19.65	18.1970	18.0260
				45	22.41	23.43	20.7190	20.3790
				52	21.46	19.34	18.4250	18.2060
	6145	39	SU	--	84.32	81.64	77.5812	77.4130
			52	37	20.20	19.43	18.1830	17.8620
				45	24.62	22.57	20.9720	19.6290
				52	22.47	19.57	19.3420	18.0290
	6385	87	SU	--	84.64	83.68	77.5846	77.5210
			52	37	19.99	19.62	18.1060	17.9470
				45	22.56	23.27	20.5940	20.3000
				52	21.63	19.66	18.2010	18.0070
160MHz	6025	15	SU	--	169.92	169.28	156.9785	157.1852
			484	65	49.33	49.89	38.3170	38.3090
				S66	54.17	48.00	38.3200	38.3600
	6185	47	SU	--	169.60	169.28	157.4316	157.3009
			484	65	55.10	46.36	38.3360	38.2320
				S66	52.71	47.74	38.4690	38.5160
	6345	79	SU	--	170.24	168.32	157.0138	157.4294
			484	65	52.14	47.42	38.4180	38.3770
				S66	49.51	45.77	38.2770	38.2140



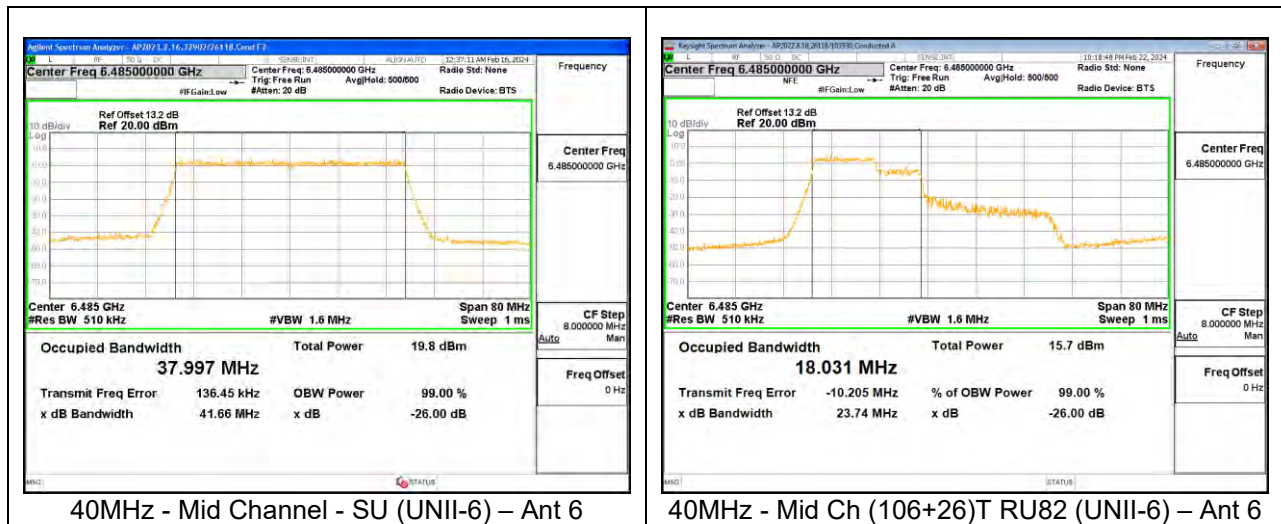
9.2.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND

UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.24	21.13	19.1090	19.0860
			106+26	82	20.52	19.87	18.1490	18.1490
				83	20.87	20.17	18.2540	18.0040
	6175	45	SU	--	21.39	21.31	19.1230	19.1490
			106+26	82	21.02	19.71	18.1110	18.1090
				83	20.83	20.26	18.1960	18.0930
	6415	93	SU	--	21.37	21.33	19.1300	19.1410
			106+26	82	20.30	19.67	18.1320	18.0550
				83	20.83	20.08	18.2560	18.0890
40 MHz	5965	3	SU	--	41.62	41.07	38.0850	38.0700
				82	25.18	20.58	18.0110	17.8470
				84	26.79	25.85	19.1160	19.3320
			106+26	85	24.76	20.66	18.0380	17.8950
				--	41.55	41.34	38.0650	38.0310
	6165	43	SU	--	23.72	20.06	17.9700	17.7300
				82	27.97	25.17	19.5320	18.7600
				84	24.30	20.27	18.1300	17.9030
			106+26	85	24.30	20.27	18.1300	17.9030
				--	41.60	41.11	38.0560	38.1240
	6405	91	SU	--	24.10	20.88	17.9590	17.9370
				82	25.99	25.70	19.6060	19.1630
				84	24.19	20.35	18.0770	17.9040
			106+26	85	24.19	20.35	18.0770	17.9040
				--	81.44	81.95	77.5610	77.5680
80MHz	5985	7	SU	--	19.96	19.52	18.1210	17.8790
				37	23.91	22.45	20.0770	20.3520
				52	22.20	19.71	18.2240	18.0070
			52	--	81.33	81.38	77.4190	77.5680
				37	19.83	19.05	18.0590	17.3050
	6145	39	SU	--	24.32	22.31	20.9010	19.7190
				37	19.75	19.63	18.0400	17.9760
				52	19.75	19.63	18.0400	17.9760
			52	--	81.42	81.46	77.4010	77.4860
				37	20.09	19.49	18.1560	17.8580
	6385	87	SU	--	24.52	21.24	20.8410	18.7720
				45	22.43	19.85	18.4940	18.0650
				52	22.43	19.85	18.4940	18.0650
			52	--	164.70	164.00	157.1200	157.3400
				37	50.71	46.28	38.3710	38.3140
160MHz	6025	15	484	S66	56.65	52.27	38.5360	38.3580
				--	164.70	164.00	157.2500	157.2600
			SU	--	52.58	53.78	38.3520	38.5390
	6185	47	484	S66	56.83	53.76	38.5160	38.3140
				--	164.90	164.10	157.2300	157.3500
			SU	--	52.77	50.80	38.5640	38.3630
	6345	79	484	S66	59.03	48.23	38.4720	38.2360
				--	164.90	164.10	157.2300	157.3500
			SU	--	52.77	50.80	38.5640	38.3630
			484	S66	59.03	48.23	38.4720	38.2360



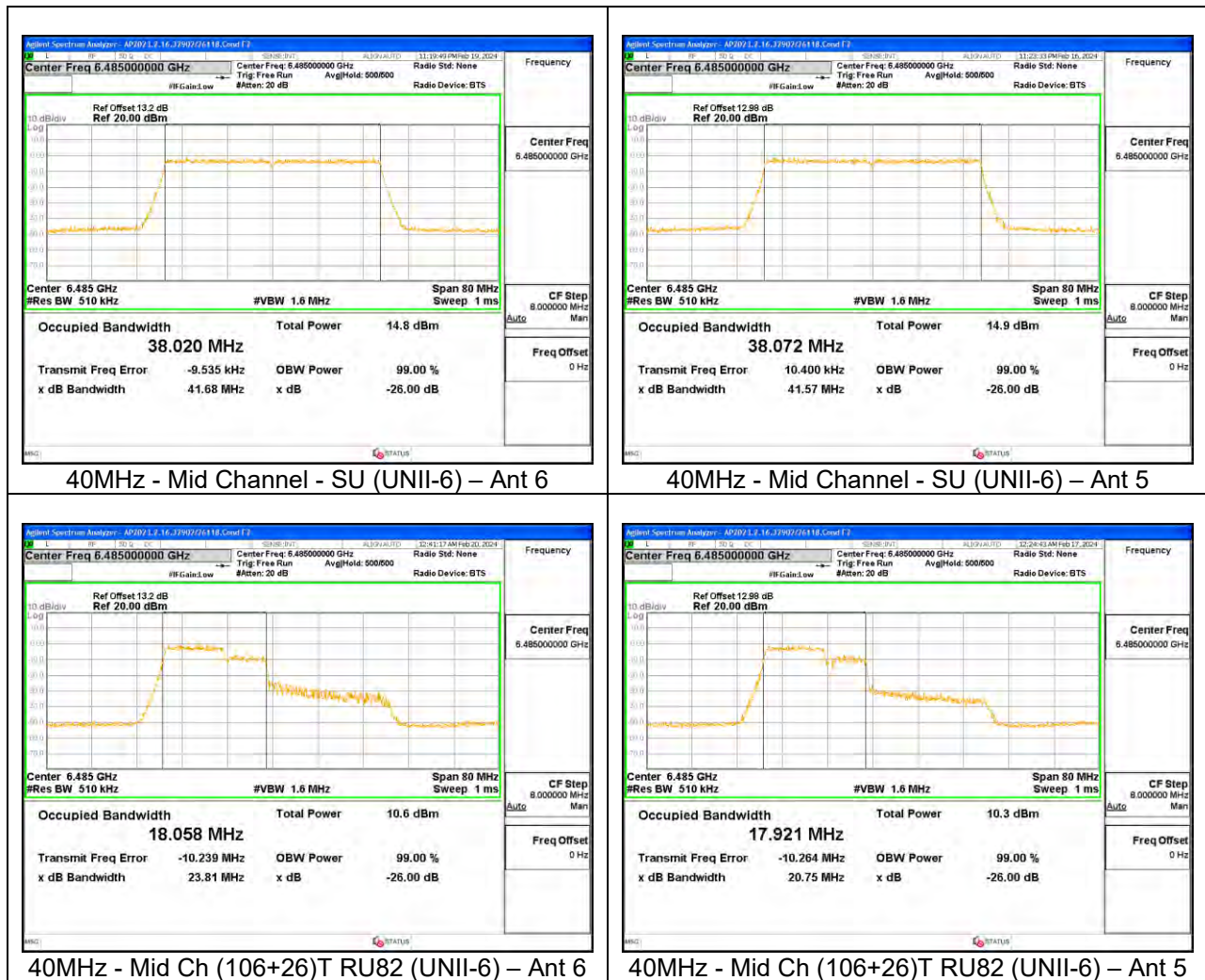
9.2.4. 802.11be SISO MODE IN THE UNII-6 BAND

UNII-6 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6435	97	SU	--	21.72	21.84	19.104	19.07
			106+26	82	21.20	21.28	18.154	17.921
				83	21.40	21.44	18.237	17.912
	6475	105	SU	--	21.80	21.72	19.081	19.093
			106+26	82	21.20	21.28	18.164	18.071
				83	21.40	21.48	18.17	17.959
	6515	113	SU	--	21.88	21.84	19.082	19.099
			106+26	82	21.40	21.20	18.079	18.089
				83	21.36	21.44	18.329	18.201
40MHz	6445	99	SU	--	42.48	42.40	38.07	38.07
			106+26	82	25.44	26.72	17.847	18.006
				84	35.84	32.80	19.68	19.771
				85	25.68	26.08	18.165	17.693
	6485	107	SU	--	41.66	41.69	37.997	38.06
			106+26	82	21.73	23.94	18.031	18.03
				84	29.28	29.84	19.655	19.414
				85	26.96	27.68	18.161	18.205
	6525 (Straddle)	115	SU	--	42.48	42.72	38.081	38.058
			106+26	82	25.92	26.96	17.981	17.951
				84	27.84	29.44	19.848	19.547
				85	28.16	25.44	18.2	18.213
80MHz	6465	103	SU	--	84.32	84.32	77.635	77.558
			52	37	19.73	19.80	18.161	18.173
				45	25.12	24.29	19.779	20.933
				52	22.56	20.45	17.446	18.33
160MHz	6505 (Straddle)	111	SU	--	170.24	170.24	157.17	157.34
			484	65	50.85	50.16	38.504	38.727
				S66	56.78	55.72	38.435	38.63



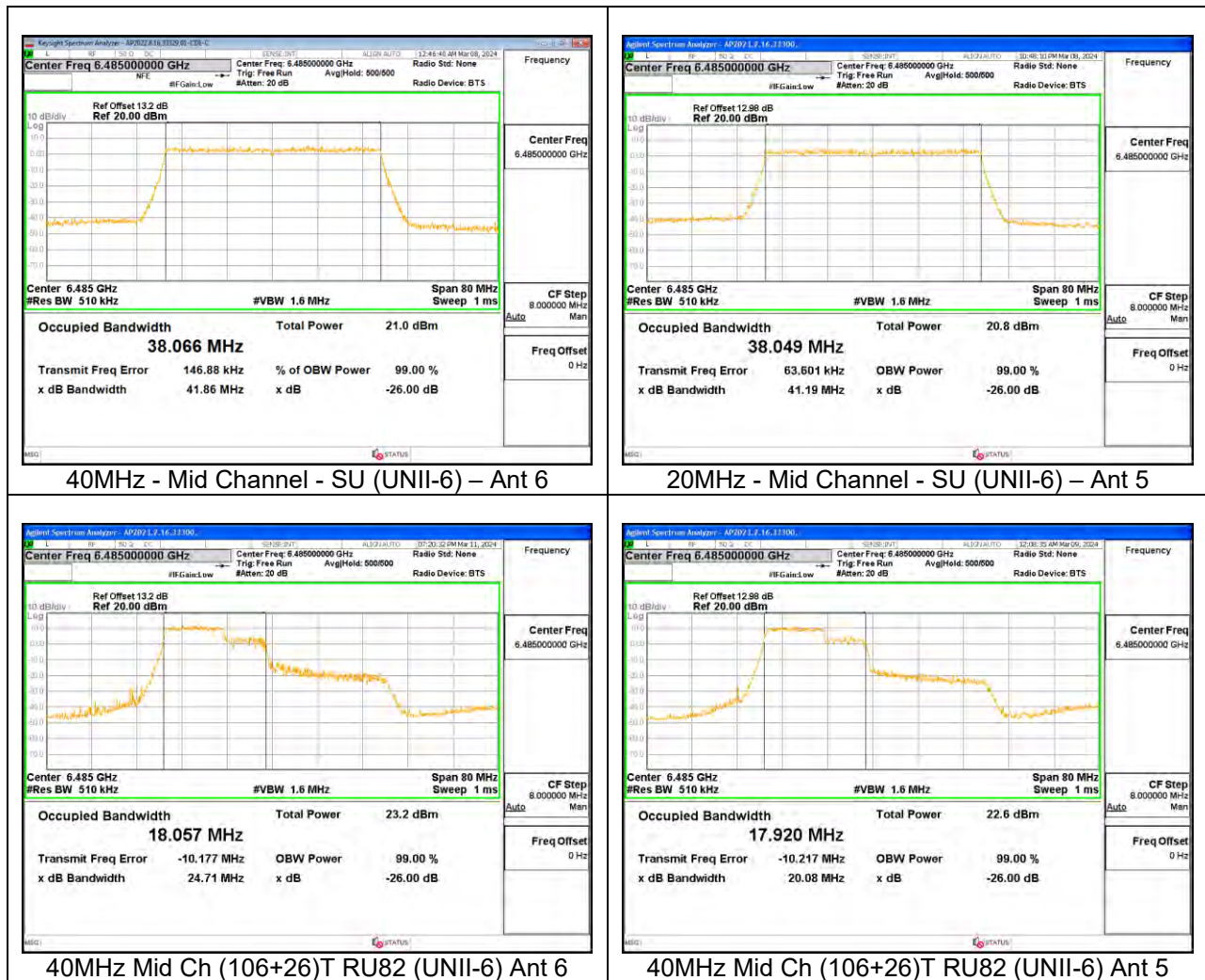
9.2.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND

UNII-6 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6435	97	SU	--	21.92	21.76	19.069	19.065
			106+26	82	21.32	21.28	18.047	17.913
				83	21.36	21.32	18.283	17.971
	6475	105	SU	--	21.88	21.56	19.114	19.079
			106+26	82	21.32	21.28	17.765	18.146
				83	21.32	21.32	18.272	18.211
	6515	113	SU	--	21.88	21.76	19.084	19.077
			106+26	82	21.12	20.24	18.204	18.115
				83	21.36	20.64	18.275	18.07
40MHz	6445	99	SU	--	42.56	42.48	38.084	38.07
			106+26	82	27.76	20.24	18.075	17.855
				84	30.64	30.48	19.562	19.005
				85	26.96	20.64	18.534	17.867
	6485	107	SU	--	41.68	41.57	38.02	38.072
			106+26	82	23.81	20.75	18.058	17.921
				84	31.36	29.04	19.792	18.95
				85	27.92	20.48	18.214	17.883
	6525 (Straddle)	115	SU	--	42.48	42.32	38.062	38.06
			106+26	82	26.96	20.00	16.82	17.959
				84	29.04	27.52	19.651	19.074
				85	27.68	20.72	18.189	17.912
80MHz	6465	103	SU	--	84.32	83.84	77.543	77.583
			52	37	19.98	19.69	18.214	17.900
				45	25.92	24.64	20.436	19.419
				52	22.40	19.68	18.717	17.703
160MHz	6505 (Straddle)	111	SU	--	169.92	168.96	157.24	157.09
			484	65	49.98	44.89	38.516	38.38
				S66	61.85	47.11	38.735	38.266



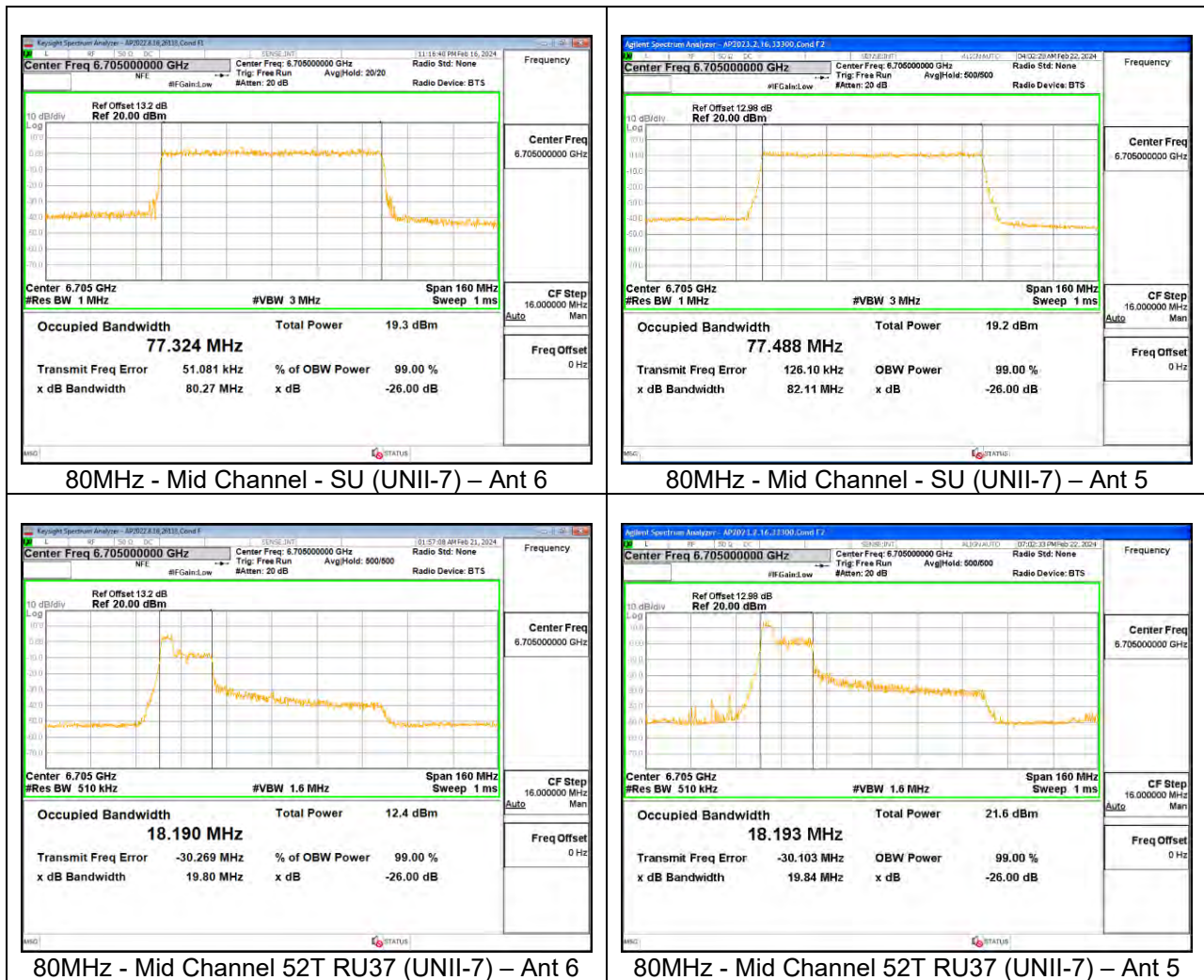
9.2.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND

UNII-6 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6435	97	SU	--	21.29	21.32	19.1006	19.116
			106+26	82	20.60	19.85	18.168	18.066
				83	21.02	20.04	18.265	18.149
	6475	105	SU	--	21.38	21.43	19.1268	19.154
			106+26	82	20.06	19.79	18.056	18.068
				83	20.80	20.07	18.263	17.969
	6515	113	SU	--	21.31	21.46	19.1402	19.119
			106+26	82	20.76	19.77	17.974	18.061
				83	20.99	19.88	18.284	18.116
40MHz	6445	99	SU	--	41.70	41.25	38.084	38.063
			106+26	82	23.20	19.91	17.992	17.88
				84	26.16	26.28	19.521	19.201
				85	23.42	19.93	18.121	17.817
	6485	107	SU	--	41.86	41.19	38.066	38.049
			106+26	82	24.71	20.08	18.057	17.92
				84	26.04	26.00	19.537	19.252
				85	24.90	20.22	18.123	17.853
	6525 (Straddle)	115	SU	--	41.81	41.34	38.041	38.083
			106+26	82	24.60	19.57	18.042	17.701
				84	28.53	24.60	19.293	19.214
				85	24.91	20.02	18.26	17.803
80MHz	6465	103	SU	--	81.83	81.74	77.457	77.519
			52	37	20.48	19.70	18.083	17.958
				45	23.85	22.74	20.388	20.14
				52	22.78	19.79	18.411	17.911
160MHz	6505 (Straddle)	111	SU	--	164.50	163.80	157.15	157.09
			484	65	56.32	49.80	38.355	38.319
				S66	49.93	48.81	38.606	38.458



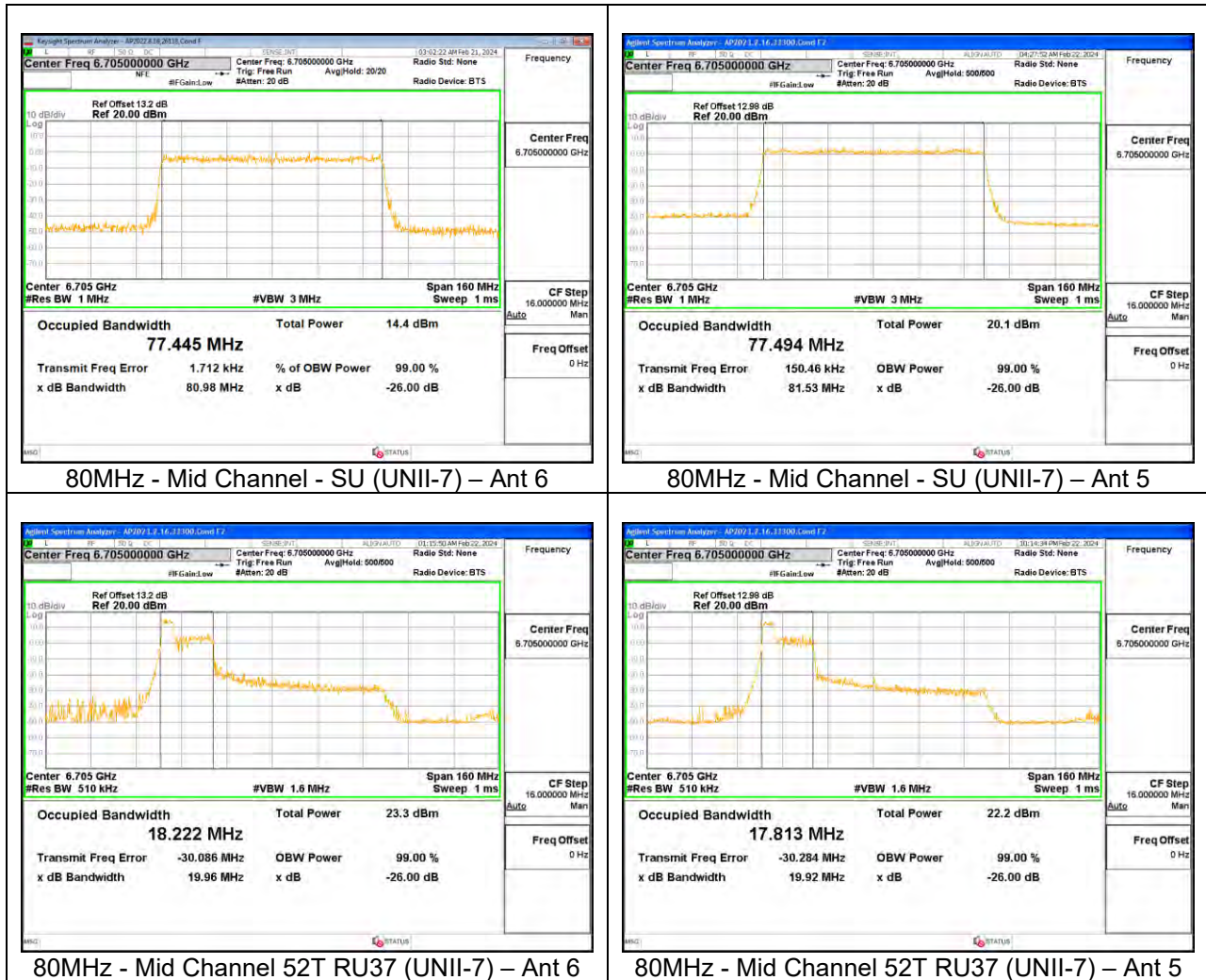
9.2.7. 802.11be SISO MODE IN THE UNII-7 BAND

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.76	21.92	19.053	19.102
			26	0	19.76	19.8	18.322	18.397
				4	18.88	18.81	17.144	17.06
				8	20.44	20.06	18.415	18.507
	6715	153	SU	--	21.8	21.8	19.029	19.043
			26	0	19.64	19.63	18.354	18.32
				4	19	18.85	17.212	17.128
				8	20.4	20.28	18.411	18.478
	6875 (Straddle)	185	SU	--	21.8	21.8	19.023	18.995
			26	0	19.84	19.76	18.307	18.313
				4	18.84	18.96	17.123	17.069
				8	20.44	20.44	18.394	18.509
40MHz	6565	123	SU	--	42.4	42.4	38.000	38.000
			106+26	82	23.24	24.56	17.978	18.014
				84	33.04	30.88	19.829	20.046
				85	27.12	26	18.414	18.12
	6685	147	SU	--	42.48	42.32	38.066	37.998
			106+26	82	27.2	26.8	17.978	18.014
				84	34.8	31.52	19.823	19.567
				85	26.72	26.56	18.322	18.239
	6845	179	SU	--	42.24	42.32	38.021	37.93
			106+26	82	27.28	26.48	18.105	18.06
				84	30.72	33.28	19.841	20.108
				85	26.32	26.24	18.089	18.379
80MHz	6545 (Straddle)	119	SU	--	84.16	84.48	77.588	77.554
			52	37	19.84	20.16	18.184	18.257
				45	23.36	24.16	19.701	20.242
				52	21.6	21.28	18.582	18.266
	6705	151	SU	--	80.27	82.11	77.324	77.488
			52	37	19.8	19.84	18.19	18.193
				45	22.88	23.41	20.911	20.384
				52	22.08	22.23	18.472	18.164
	6865 (Straddle)	183	SU	--	82.32	84.32	77.596	77.668
			52	37	19.68	19.84	18.248	18.171
				45	23.2	24.48	20.061	20.409
				52	22.24	22.24	18.721	18.125
160MHz	6665	143	SU	--	170.24	170.88	157.25	157.08
			484	65	49.51	55.68	38.452	38.319
				S66	52.11	59.44	38.769	38.691
	6825 (Straddle)	175	SU	--	170.88	169.92	157.07	157.41
			484	65	47.16	49.52	38.371	38.609
				S66	58.35	58.93	38.695	38.723



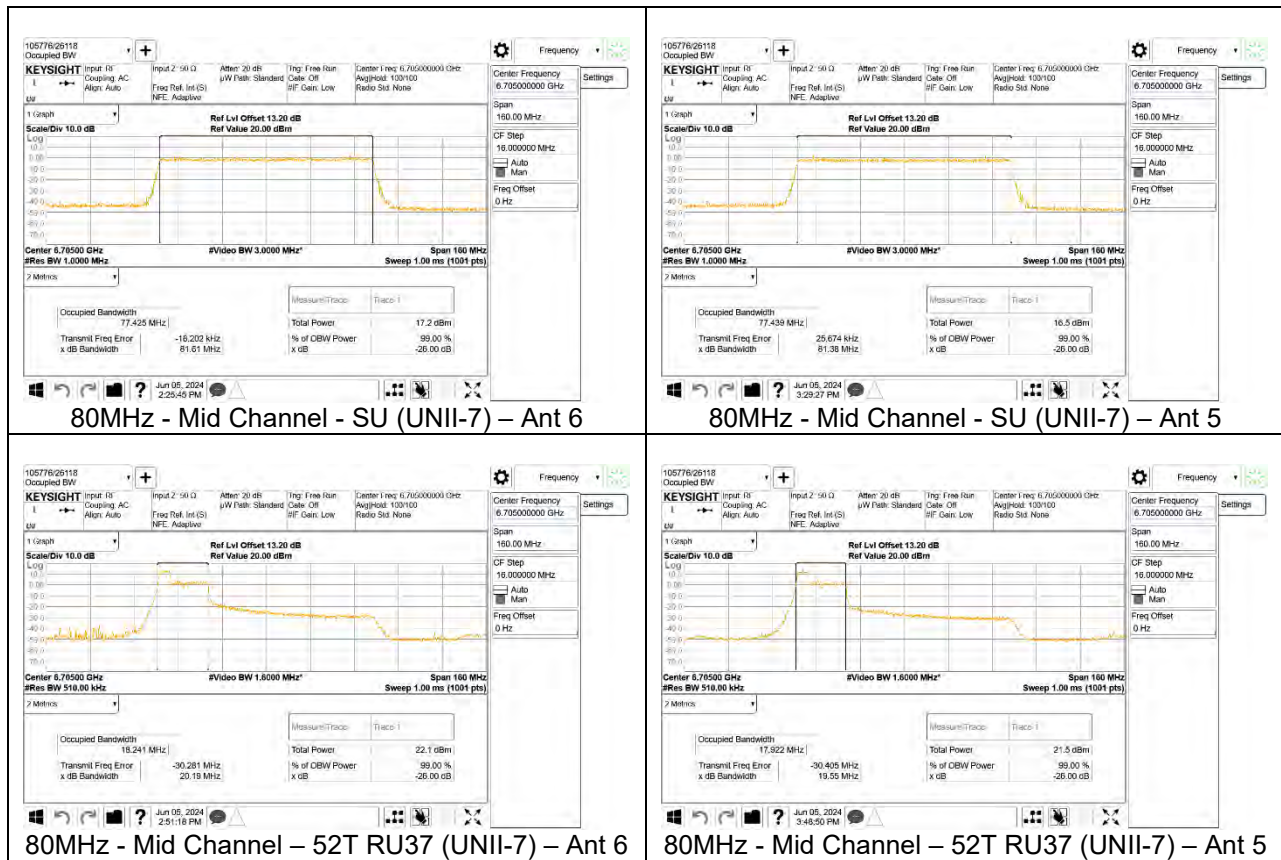
9.2.8. 802.11be MIMO CDD MODE IN THE UNII-7 BAND

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.64	21.68	19.05	19.023
			26	0	19.64	19.52	18.288	18.291
				4	18.96	18.04	17.096	16.738
				8	20.28	19.8	18.45	18.19
	6715	153	SU	--	21.88	21.64	19.034	19.047
			26	0	19.79	19.63	18.345	18.268
				4	19	18.16	17.105	16.846
				8	20.48	19.76	18.519	18.358
	6875 (Straddle)	185	SU	--	21.76	21.6	19.087	19.064
			26	0	19.72	19.72	18.268	18.273
				4	18.92	18.16	17.116	16.865
				8	20.6	19.76	18.434	18.234
40MHz	6565	123	SU	--	42.4	42.32	37.92	37.967
			106+26	82	27.2	19.52	17.978	17.897
				84	27.68	28.24	19.867	19.425
				85	26.4	20.8	18.286	17.924
	6685	147	SU	--	42.32	42.48	37.989	38.023
			106+26	82	23.08	19.97	18.046	17.910
				84	28.16	27.44	19.406	19.218
				85	25.84	20.48	18.137	17.811
	6845	179	SU	--	42.32	42.48	38.032	38.027
			106+26	82	27.04	20.16	18.137	17.92
				84	33.23	28.16	19.626	19.328
				85	26.24	20.96	17.951	17.903
80MHz	6545 (Straddle)	119	SU	--	84.32	84	77.624	77.519
			52	37	19.84	19.52	18.097	17.98
				45	24	22.24	20.132	19.147
				52	20.8	19.68	18.192	17.725
	6705	151	SU	--	80.98	81.53	77.445	77.494
			52	37	19.96	19.92	18.222	17.813
				45	23.36	23.2	20.606	19.42
				52	21.76	19.84	18.165	17.971
	6865 (Straddle)	183	SU	--	83.84	84	77.466	77.541
			52	37	20	19.68	18.009	18.023
				45	23.52	22.56	19.039	20.061
				52	22.08	19.84	18.199	17.903
160MHz	6665	143	SU	--	170.24	169.6	157.19	157.42
			484	65	50.71	48.62	38.284	38.259
				S66	62.65	47.91	38.371	38.376
	6825 (Straddle)	175	SU	--	170.24	169.6	157.23	157.35
			484	65	47.68	50.55	38.417	38.271
				S66	52.55	56.11	38.764	38.47



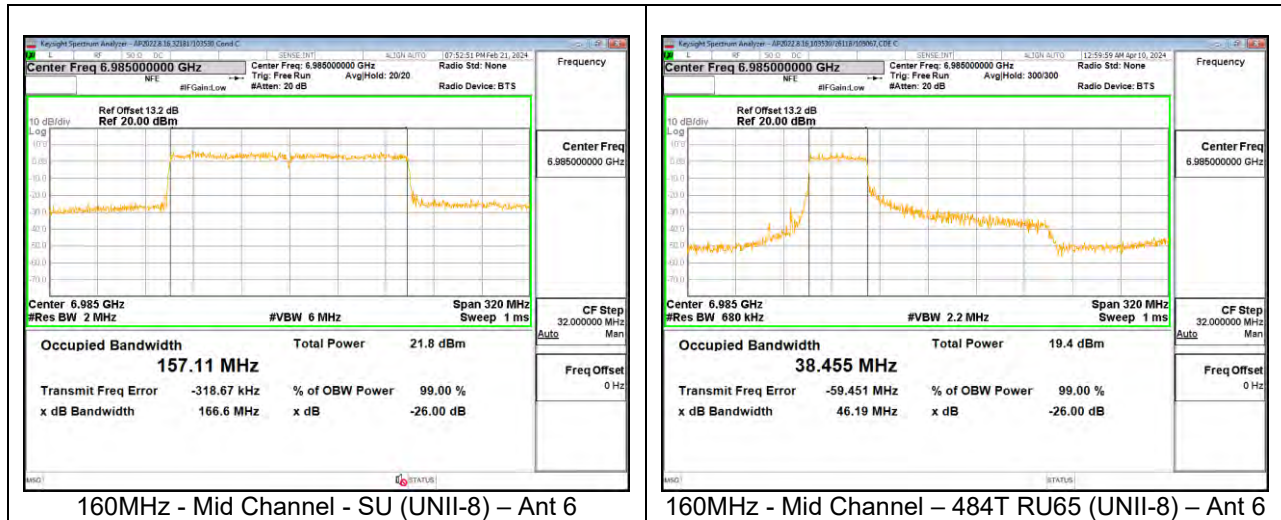
9.2.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND

UNII-7 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.06	21.18	19.058	19.056
			26	0	19.68	19.60	18.352	18.258
				4	18.83	18.05	17.07	16.794
				8	20.30	19.64	18.424	18.297
	6715	149	SU	--	21.22	21.04	19.1325	19.1006
			26	0	19.72	19.66	18.402	18.3
				4	18.84	18.12	17.154	16.85
				8	20.19	19.78	18.416	16.352
	6875	185	SU	--	21.19	21.14	19.1024	19.1438
			26	0	19.70	19.56	18.336	16.262
				4	18.84	18.08	17.15	16.81
				8	20.39	19.48	18.439	18.334
40MHz	6565	123	SU	--	41.13	41.15	38.0922	37.973
			106+26	82	28.29	20.08	18.37	17.900
				84	32.35	27.78	20.322	19.427
				85	25.63	20.47	18.423	17.955
	6685	147	SU	--	41.51	41.14	38.0593	38.0234
			106+26	82	24.34	19.95	18.106	17.884
				84	32.67	25.88	20.016	19.401
				85	24.85	20.68	18.454	17.383
	6845	179	SU	--	41.33	41.25	37.9765	38.1068
			106+26	82	25.39	20.55	18.091	17.911
				84	29.94	27.91	20.07	19.429
				85	25.17	24.33	18.526	17.931
80MHz	6545 (Straddle)	119	SU	--	81.89	81.20	77.549	77.532
			52	37	20.21	19.86	18.232	18.023
				45	24.10	24.13	20.964	20.351
				52	22.54	19.74	19.82	17.976
	6705	151	SU	--	81.61	81.38	77.425	77.439
			52	37	20.19	19.55	18.241	17.922
				45	24.22	22.40	21.628	20.301
				52	22.04	20.02	18.947	17.957
	6865	183	SU	--	81.54	80.93	77.374	77.5
			52	37	20.12	19.11	18.283	17.262
				45	25.51	24.81	21.53	20.391
				52	22.92	20.06	19.123	18.028
160MHz	6665	143	SU	--	165.80	163.30	157.14	157.27
			484	65	56.12	48.19	38.34	38.536
				S66	48.58	48.36	38.38	38.399
	6825 (Straddle)	175	SU	--	164.30	163.60	157.11	157.36
			484	65	67.96	48.95	46.5746	38.2606
				S66	74.09	56.52	50.3869	42.8595



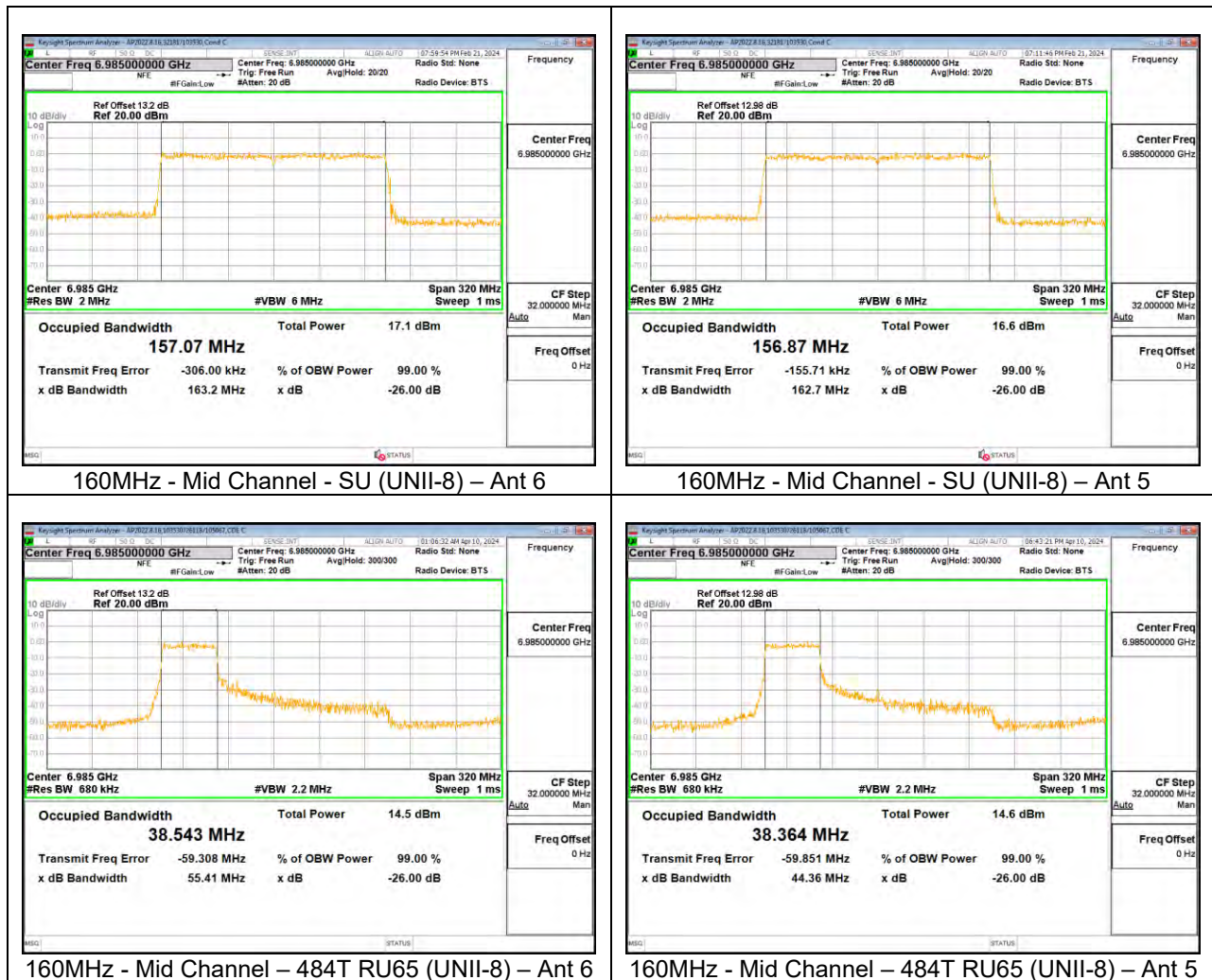
9.2.10. 802.11be SISO MODE IN THE UNII-8 BAND

UNII-8 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6895	189	SU	--	21.88	21.76	19.0360	19.0290
			106+26	82	21.20	21.36	18.1650	18.1260
				83	21.44	21.36	18.0340	18.1770
	6995	209	SU	--	21.88	21.76	19.0740	19.0290
			106+26	82	20.90	20.77	17.7830	18.1120
				83	21.32	21.48	18.2550	18.2630
	7095	229	SU	--	21.92	21.76	19.0540	18.9910
			106+26	82	21.12	21.08	18.1070	18.1350
				83	21.44	21.44	18.2010	18.2820
	7115	233	SU	--	21.80	21.72	19.0680	19.0920
40MHz	6885 (Straddle)	187	SU	--	42.32	43.32	38.0150	38.1160
			106+26	82	28.72	25.36	17.9480	18.0010
				84	31.60	30.80	19.7030	19.5080
				85	26.80	26.88	18.0880	18.2160
	6965	203	SU	--	42.32	43.24	38.0440	37.9860
			106+26	82	25.84	26.24	18.0780	18.0510
				84	32.56	30.88	19.5620	19.6700
				85	26.08	26.80	17.9800	18.0810
	7085	227	SU	--	43.32	42.48	37.9610	37.8840
			106+26	82	26.24	26.72	18.0490	16.9830
				84	32.32	31.28	19.5230	19.6520
				85	26.16	26.64	18.1430	18.1160
80MHz	6945	199	SU	--	84.16	84.16	77.4910	77.3660
			484	65	72.96	68.96	38.0700	38.1220
				66	79.36	79.20	38.2330	38.0980
	7025	215	SU	--	84.32	84.32	77.5460	77.4490
			484	65	64.48	72.80	38.1610	38.2130
				66	79.04	80.32	38.1920	38.2680
160MHz	6985	207	SU	--	166.60	164.00	157.1100	156.9800
			484	65	46.19	51.41	38.4550	38.4540
				S66	49.93	52.26	38.6530	38.6190



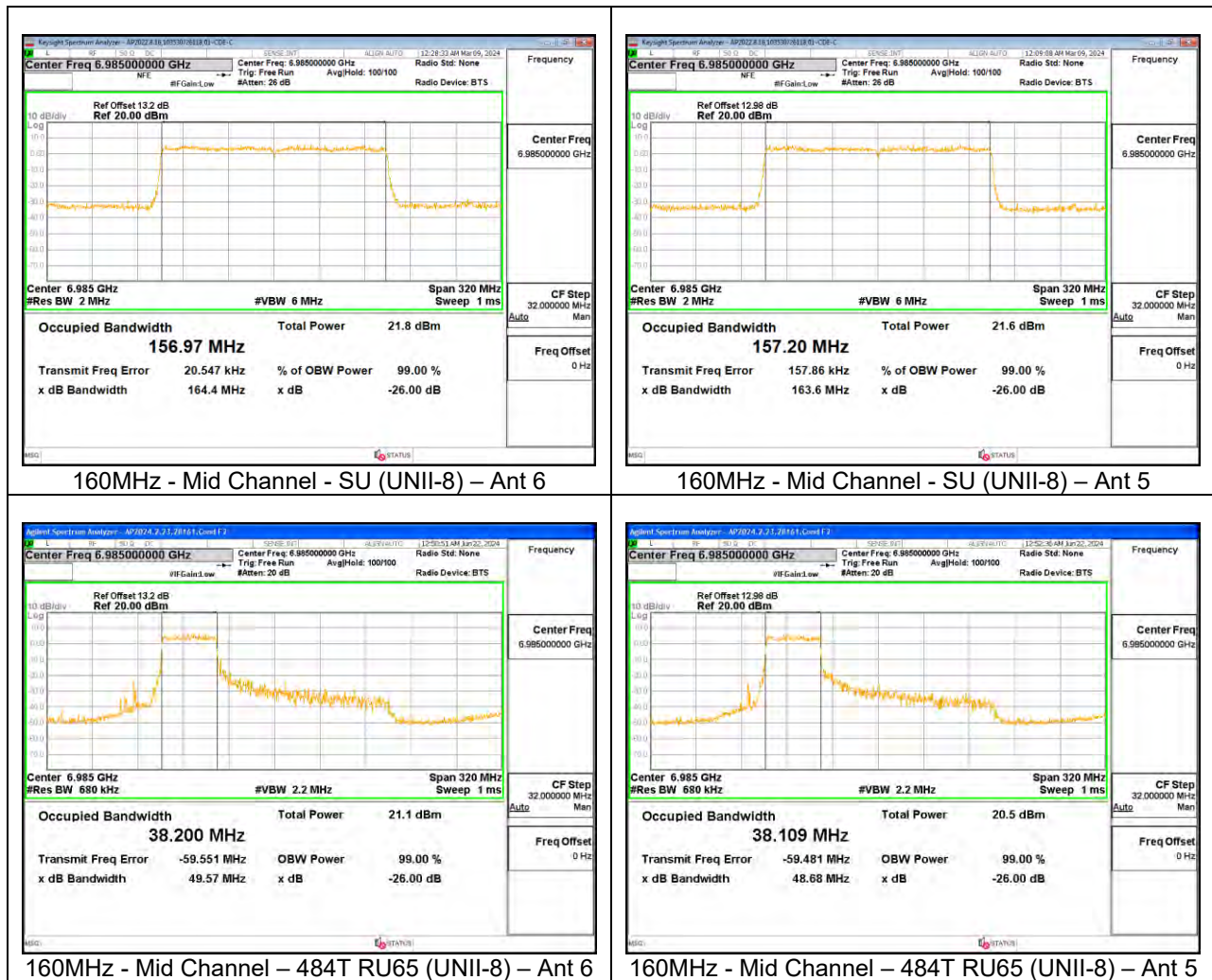
9.2.11. 802.11be MIMO CDD MODE IN THE UNII-8 BAND

UNII-8 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6895	189	SU	--	21.84	21.68	19.1010	18.9840
			106+26	82	21.12	20.32	17.9820	17.8160
				83	21.28	20.60	18.2460	18.0720
	6995	209	SU	--	21.84	21.68	19.0460	19.0560
			106+26	82	20.96	19.80	18.1480	18.1450
				83	21.28	20.72	18.2080	18.1030
	7095	229	SU	--	21.72	21.68	19.0760	19.0310
			106+26	82	21.20	20.20	18.1070	18.0960
				83	21.36	20.72	18.2070	18.1050
	7115	233	SU	--	21.96	21.80	19.0110	19.0480
40MHz	6885 (Straddle)	187	SU	--	42.16	42.16	37.9770	38.0550
			106+26	82	27.20	21.04	17.9160	17.5110
				84	29.20	29.60	19.3230	19.0190
				85	27.36	20.40	18.1480	17.8330
	6965	203	SU	--	42.64	42.24	37.9320	37.9440
			106+26	82	26.48	21.04	17.9510	17.8630
				84	29.92	27.28	19.5660	19.0220
				85	27.60	20.88	18.1720	17.9180
	7085	227	SU	--	42.48	42.32	37.9980	37.9580
			106+26	82	26.00	23.60	18.0120	17.7460
				84	30.96	28.80	19.3750	19.1360
				85	27.76	20.88	18.0050	17.1680
80MHz	6945	199	SU	--	84.32	84.16	77.4710	77.3660
			484	65	64.16	61.60	38.1990	38.1130
				66	79.36	63.04	38.2200	38.1040
	7025	215	SU	--	84.32	84.00	77.4370	77.4010
			484	65	62.24	61.76	38.2300	38.1200
				66	80.32	59.36	38.2670	37.9690
160MHz	6985	207	SU	--	163.20	162.70	157.0700	156.8700
			484	65	55.41	44.36	38.5430	38.3640
				S66	64.40	49.49	38.6350	38.3300



9.2.12. 802.11be MIMO SDM 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 6	Ant 5	Ant 6	Ant 5
20MHz	6895	189	SU	--	21.68	21.72	19.0390	19.0780
			106+26	82	21.20	19.92	18.1100	18.0630
				83	21.48	20.56	18.2030	18.1660
	6995	209	SU	--	20.94	19.62	18.1390	18.1070
			106+26	82	21.36	20.44	17.9240	18.0260
				83	21.44	20.44	18.2370	18.1270
	7095	229	SU	--	21.84	21.64	19.0950	19.0760
			106+26	82	21.24	20.08	18.0740	18.0810
				83	21.44	20.52	18.3160	18.0680
	7115	233	SU	--	21.68	21.60	19.0800	19.0580
40MHz	6885 (Straddle)	187	SU	--	42.56	42.24	38.0710	37.9860
			106+26	82	25.60	20.88	18.0250	16.3580
				84	30.16	27.84	19.8660	19.3300
				85	27.04	21.04	18.1020	17.8730
	6965	203	SU	--	42.64	42.32	38.0560	38.0880
			106+26	82	27.36	20.48	14.7180	17.8010
				84	32.40	28.24	19.5980	19.1350
				85	26.08	20.96	18.1050	17.9010
	7085	227	SU	--	42.64	42.08	38.0910	38.0510
			106+26	82	25.76	20.72	17.8620	17.8240
				84	32.00	28.64	19.5770	19.2040
				85	28.00	21.04	18.3300	17.9140
80MHz	6945	199	SU	--	83.52	83.52	77.4280	77.5320
			484	65	69.92	61.92	38.1050	38.0670
				66	80.48	73.28	38.2430	38.0810
	7025	215	SU	--	84.00	83.36	77.5110	77.5980
			484	65	62.08	68.80	38.3010	38.0460
				66	80.32	69.12	38.3110	38.0080
160MHz	6985	207	SU	--	164.40	163.60	156.9700	157.2000
			484	65	49.57	48.68	38.2000	38.1090
				S66	54.84	54.52	38.3590	54.5200



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: 2020 §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	510kHz/1.6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

ID:	32181 / 23560	Date:	02/02/24
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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.

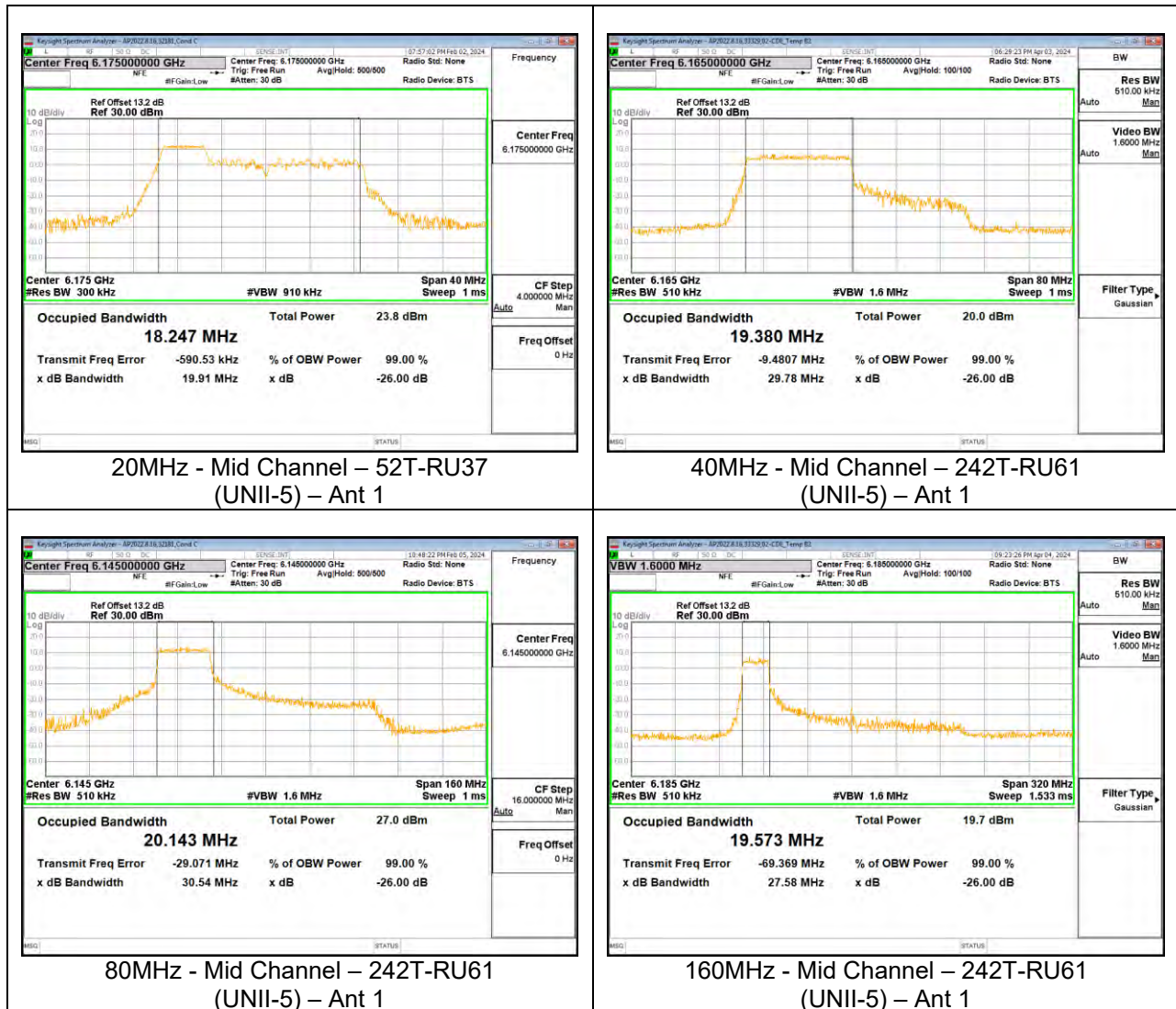
The data in these sections follow the same testing parameters used for LP and SP modes bandwidth tests, therefore, for test setting please refer to LP mode bandwidth test plots.

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 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.25	21.39	19.0520	19.0370
			52	37	19.89	19.89	18.1930	18.1980
				38	19.41	19.44	17.1480	17.1570
				40	20.64	20.44	18.3460	18.2520
	6175	45	SU	--	20.23	21.05	19.0420	19.0930
			52	37	19.91	19.86	18.2470	18.1620
				38	19.40	18.94	17.1480	17.0410
				40	20.27	20.62	18.1720	18.2440
	6415	93	SU	--	21.24	21.33	19.0870	19.0930
			52	37	19.83	19.69	18.3200	18.0890
				38	19.17	19.49	17.1450	17.2030
				40	20.54	20.57	14.4080	18.2070
40 MHz	5965	3	SU	--	41.06	41.27	38.0140	37.9910
			242	61	28.68	28.89	19.6420	19.6810
				62	32.09	30.53	19.8900	19.8370
				62	32.09	30.53	19.8900	19.8370
	6165	43	SU	--	40.93	41.30	38.0660	37.9670
			242	61	29.78	26.58	19.3800	19.2730
				62	33.02	30.60	19.9220	19.8790
				62	33.02	30.60	19.9220	19.8790
	6405	91	SU	--	41.25	41.32	37.9640	38.0100
			242	61	28.86	29.98	19.3810	19.9830
				62	27.45	29.38	19.4070	19.8730
				62	27.45	29.38	19.4070	19.8730
80MHz	5985	7	SU	--	81.68	81.93	77.4820	77.6870
			242	61	32.34	29.01	19.7370	19.8010
				62	32.65	41.05	20.1630	19.5280
				64	29.19	27.21	19.8970	19.6020
	6145	39	SU	--	81.43	82.18	77.5830	77.4950
			242	61	30.54	31.46	20.1430	19.5250
				62	37.39	35.44	19.6140	19.5530
				64	29.95	27.93	19.9910	19.8700
	6385	87	SU	--	82.00	82.25	77.5380	77.5120
			242	61	30.94	30.07	19.9510	19.9550
				62	32.44	29.93	19.4930	19.8740
				64	29.74	28.58	19.4250	19.9280
160MHz	6025	15	SU	--	162.80	164.00	157.3200	157.2900
			242	61	26.03	26.54	19.4730	19.5030
				64	38.45	30.13	20.0430	19.7100
				S64	25.73	30.35	19.7860	19.6400
	6185	47	SU	--	166.60	165.50	157.0800	157.1200
			242	61	27.58	29.63	19.5730	19.5650
				64	31.59	29.65	19.7910	19.8250
				S64	27.25	27.57	19.7100	19.6710
	6345	79	SU	--	163.40	165.60	157.0700	157.2100
			242	61	28.33	27.56	19.5980	19.8820
				64	29.36	28.82	19.6960	19.6970
				S64	25.77	27.41	19.5740	19.4000



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 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.26	21.32	19.0370	19.0510
			S2	37	19.91	19.68	18.3020	18.3040
				38	18.98	18.34	17.0400	16.6890
				40	20.56	19.76	18.3320	18.1360
	6175	45	SU	--	21.52	21.35	19.0850	19.0930
			S2	37	19.64	19.69	18.2540	18.0630
				38	19.44	18.35	17.1560	16.7530
				40	20.60	19.79	18.2040	18.1640
	6415	93	SU	--	21.23	21.36	19.0950	19.0470
			S2	37	20.05	19.63	18.2660	18.0450
				38	19.24	18.60	17.1040	16.7340
				40	20.65	19.66	18.3720	18.1680
40 MHz	5965	3	SU	--	41.29	41.72	38.0400	38.0410
			242	61	31.65	28.32	19.7220	19.3550
				62	31.19	27.39	19.3840	19.5040
				64	31.19	27.39	19.3840	19.5040
	6165	43	SU	--	41.23	41.64	37.9970	38.0230
			242	61	33.80	27.30	20.0120	19.4310
				62	30.68	31.13	19.8560	19.4080
				64	30.68	31.13	19.8560	19.4080
	6405	91	SU	--	41.17	41.41	38.0810	38.0180
			242	61	33.74	27.85	19.6750	19.5710
				62	31.60	30.35	19.7840	19.3420
				64	31.60	30.35	19.7840	19.3420
80MHz	5985	7	SU	--	82.20	81.98	77.5870	77.5550
			242	61	25.30	26.81	19.3800	19.2050
				62	29.74	29.48	19.3760	19.4160
				64	31.44	25.39	19.8960	19.3840
	6145	39	SU	--	81.54	81.67	77.5510	77.5510
			242	61	26.16	26.54	19.2620	19.2610
				62	32.24	27.95	19.5940	19.2350
				64	30.53	24.52	20.0180	19.2310
	6385	87	SU	--	81.79	81.96	77.4720	77.3380
			242	61	27.64	24.65	19.2960	19.2450
				62	36.96	33.00	19.5530	19.3420
				64	28.56	26.91	19.7100	19.3020
160MHz	6025	15	SU	--	164.30	164.90	157.3700	157.2000
			242	61	28.42	26.01	19.6070	19.3440
				64	30.83	28.93	20.6630	19.5140
				S64	30.37	27.55	19.6290	19.4310
	6185	47	SU	--	161.90	165.70	156.8700	157.2400
			242	61	26.71	25.53	19.6620	19.3890
				64	39.81	30.33	20.0370	19.7100
				S64	30.05	27.68	19.7330	19.2890
	6345	79	SU	--	163.40	165.00	157.4000	157.1400
			242	61	24.65	26.61	19.3380	19.4580
				64	30.10	28.80	19.8370	19.6890
				S64	29.86	26.48	19.6400	19.6650

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 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.88	21.76	19.029	19.059
			52	37	19.84	20.20	18.24	18.252
				38	19.52	19.44	17.186	17.312
				40	20.84	20.84	18.284	18.314
	6715	149	SU	--	21.84	21.76	19.036	19.095
			52	37	18.20	18.13	18.199	18.126
				38	19.44	19.72	17.066	17.221
				40	20.76	20.80	18.302	18.299
	6855	181	SU	--	21.80	21.84	19.079	19.056
			52	37	19.92	19.96	18.114	18.304
				38	19.40	19.84	17.164	17.122
				40	20.56	20.64	18.408	18.266
40MHz	6565	123	SU	--	42.56	42.56	37.984	37.974
			242	61	40.48	39.60	19.393	19.432
				62	38.48	42.16	19.43	19.364
				64	42.56	42.56	37.984	37.974
	6685	147	SU	--	42.32	42.40	38.064	38.073
			242	61	40.32	42.24	19.453	19.423
				62	42.88	35.20	19.407	19.407
				64	42.88	42.72	37.991	38.055
	6845	179	SU	--	42.48	42.72	37.991	38.055
			242	61	43.20	43.60	19.38	19.457
				62	45.20	47.28	19.324	19.36
				64	45.20	47.28	19.324	19.36
80MHz (FCC)	6625	135	SU	--	84.48	84.48	77.488	77.468
			242	61	37.92	38.40	19.573	19.306
				62	55.52	55.36	19.666	19.732
				64	39.36	41.44	19.353	19.481
80 MHz	6705	151	SU	--	81.47	82.13	77.541	77.528
			242	61	24.99	27.21	19.311	19.363
				62	31.98	28.25	19.401	19.606
				64	26.13	29.53	19.485	19.465
	6785	167	SU	--	84.00	84.32	77.553	77.566
			242	61	36.00	36.96	19.392	19.422
				62	57.28	57.92	19.800	19.554
				64	34.88	38.56	19.288	19.619
160MHz	6665	143	SU	--	165.70	167.80	157.378	157.44
			242	61	30.00	26.06	19.576	19.751
				64	32.55	31.21	19.898	19.566
				564	29.05	30.23	19.502	20.108

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

UNII-7 (MIMO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.92	21.72	19.066	19.086
			52	37	20.00	19.60	18.305	18.11
				38	19.50	18.52	17.309	16.864
	6715	153	52	40	20.76	19.88	18.271	18.088
				--	21.80	21.64	19.061	19.064
				37	19.87	19.69	18.261	18.126
			52	38	19.52	18.88	17.179	16.804
				40	20.80	19.80	18.394	18.097
	6855	181	52	--	21.84	21.60	19.073	19.063
				37	20.00	19.72	18.321	18.110
				38	19.52	18.72	17.179	16.863
			52	40	20.56	19.80	18.320	18.106
40MHz	6565	123	SU	--	42.40	42.48	38.001	37.948
			242	61	40.88	34.56	19.356	19.289
				62	42.56	32.96	19.396	19.242
	6685	147	SU	--	42.56	42.48	38.054	38.072
			242	61	40.32	35.84	19.247	19.416
				62	39.44	45.84	19.417	19.342
	6845	179	SU	--	42.72	42.16	38.083	38.032
			242	61	43.68	38.00	19.427	19.28
				62	46.40	37.92	19.482	19.337
80MHz (FCC)	6625	135	SU	--	84.48	84.16	77.475	77.399
			242	61	39.68	34.40	19.514	19.603
				62	57.44	53.44	19.634	19.672
				64	37.44	37.60	19.521	19.715
80MHz	6705	151	SU	--	82.16	81.78	77.603	77.472
			242	61	28.17	28.63	19.376	19.569
				62	34.27	31.09	19.638	19.653
				64	29.78	28.19	19.548	19.709
	6785	167	SU	--	84.16	84.32	77.497	77.563
			242	61	40.16	35.20	19.611	19.698
				62	59.20	41.92	19.715	19.897
				64	44.48	35.04	19.554	19.622
160MHz	6665	143	SU	--	166.00	164.00	157.34	157.24
			242	61	29.94	26.34	19.487	19.661
				64	31.95	35.39	19.749	19.698
				S64	30.19	24.89	19.548	19.556

9.4. LP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

(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)	1.3	-2.60	-0.23	2.58
	Sub-band 2 (6115 - 6255)	-0.70	-2.20	-1.39	1.59
	Sub-band 3 (6275 - 6415)	0.40	-2.40	-0.78	2.12
6425 - 6525 UNII-6	N/A	-0.40	-2.50	-1.32	1.62
UNII-6/7 (Straddle Channel)	N/A	-0.40	-1.90	-1.09	1.89
6525 - 6875 UNII-7	N/A	-0.50	-1.90	-1.14	1.84
UNII-7/8 (Straddle Channel)	N/A	-0.50	-1.90	-1.14	1.84
6875 - 7125 UNII-8	N/A	-2.00	-3.60	-2.73	0.25

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= 1.3, Ant5= -2.60

Uncorrelated Antenna gain= $10 \log[(10^{(1.3/10)} + 10^{(-2.60/10)})/2] = -0.23 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(1.3/20)} + 10^{(-2.60/20)})^2/2] = 2.58 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU (106+26)) Power=4.96 dBm

EIRP corr'd power = 4.96 + (1.30) = 6.26 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 RU (106+26)) Power=0.74 dBm, Ant5 Power=1.27

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(0.74/10)} + 10^{(1.27/10)})$ + (-0.23) = 3.79 dBm

EIRP PSD Calculation:**1Tx**

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

Sample Calculation at UNII-5 Band:

Ant6(low channel RU(106+26)) PSD= -4.399 dBm/1MHz

EIRP corr'd PSD = 0 + -4.399 + (1.30) = -3.099 dBm/1MHz

2Tx (CDD)

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 RU(106+26)) PSD=-8.384 dBm/1MHz, Ant5 PSD=-7.702 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-8.384))/10)} + 10^{((0 + (-7.702))/10)}))$ + (2.58) = -2.439 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 RU(106+26)) PSD=-5.061 dBm/1MHz, Ant5 PSD=-4.681 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-5.061))/10)} + 10^{((0 + (-4.681))/10)}))$ + (-0.23) = -2.087 dBm/1MHz

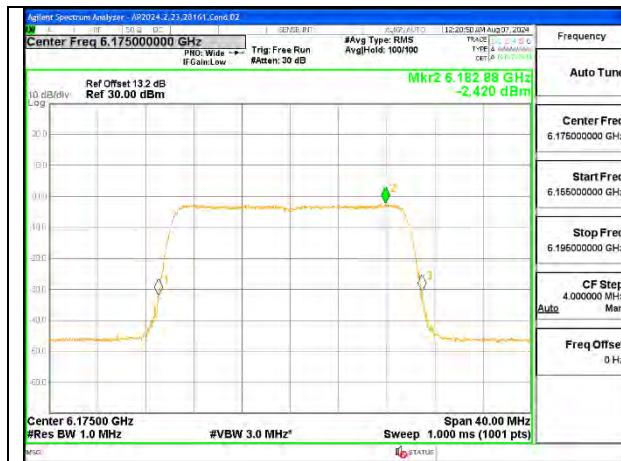
9.4.1. 802.11be SISO MODE IN THE UNII-5 BAND – LOW POWER

LP UNII-5 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 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 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5		
20MHz	0.00	0.00	1.30	-2.60	5955	1	SU	--	7.23	8.06	8.53	5.46	-4.411	-3.265	-3.111	-5.865		
							106+26	82	4.96	5.94	6.26	3.34	-4.399	-3.112	-3.099	-5.712		
								83	4.99	5.89	6.29	3.29	-4.461	-3.036	-3.161	-5.636		
			-0.70	-2.20	6175	45	SU	--	9.19	8.99	8.49	6.79	-2.420	-2.947	-3.120	-5.147		
							106+26	82	6.8	6.71	6.10	4.51	-2.338	-2.581	-3.038	-4.781		
								83	6.89	6.63	6.19	4.43	-2.091	-2.418	-2.791	-4.618		
		0.40	-2.40	6415	93	SU	--	8.05	8.47	8.45	6.07	-3.274	-2.935	-2.874	-5.335			
						106+26	82	5.83	6.19	6.23	3.79	-3.416	-3.039	-3.016	-5.439			
							83	5.8	6.24	6.20	3.84	-3.418	-3.001	-3.018	-5.401			
		40MHz	0.00	0.00	1.30	-2.60	5965	3	SU	--	10.05	11.1	11.35	8.50	-4.19	-3.19	-2.890	-5.790
									106+26	82	4.84	5.86	6.14	3.26	-4.138	-3.43	-2.838	-6.030
										84	4.9	5.87	6.20	3.27	-3.955	-3.367	-2.655	-5.967
-0.70	-2.20				6165	43	85	4.95	5.95	6.25	3.35	-4.556	-3.071	-3.256	-5.671			
							106+26	SU	--	12.23	11.88	11.53	9.68	-2.883	-2.767	-3.583	-4.967	
								82	6.85	6.59	6.15	4.39	-3.115	-3.173	-3.815	-5.373		
0.40	-2.40			6405	91	84	6.99	6.68	6.29	4.48	-3.163	-3.265	-3.863	-5.465				
						106+26	85	6.93	6.71	6.23	4.51	-2.631	-3.106	-3.331	-5.306			
							SU	--	11.22	11.41	11.62	9.01	-3.358	-3.326	-2.958	-5.726		
80MHz	0.00			0.00	1.30	-2.60	5985	7	SU	--	13.24	14.14	14.54	11.54	-4.342	-3.258	-3.042	-5.858
									52	37	0.99	1.79	2.29	-0.81	-4.591	-2.493	-3.291	-5.093
										45	0.81	1.68	2.11	-0.92	-4.743	-2.387	-3.443	-4.987
		-0.70	-2.20		6145	39	52	0.99	1.82	2.29	-0.78	-4.681	-2.577	-3.381	-5.177			
							52	SU	--	15.21	14.9	14.51	12.70	-2.203	-2.663	-2.903	-4.863	
								37	2.99	2.54	2.29	0.34	-2.426	-2.37	-3.126	-4.570		
		0.40	-2.40	6385	87	45	2.98	2.52	2.28	0.32	-2.565	-2.874	-3.265	-5.074				
						52	52	2.99	2.49	2.29	0.29	-1.952	-2.555	-2.652	-4.755			
							SU	--	14.24	14.32	14.64	11.92	-3.788	-3.215	-3.388	-5.615		
		160MHz	0.18	0.00	1.30	-2.60	6025	15	SU	--	15.49	16.29	16.79	13.69	-4.567	-3.403	-3.087	-5.823
									484	65	10.24	11.17	11.54	8.57	-4.061	-3.129	-2.761	-5.729
										S66	10.2	11.16	11.50	8.56	-4.231	-3.305	-2.931	-5.905
-0.70	-2.20				6185	47	SU	--	17.46	17.01	16.76	14.81	-2.746	-3.118	-3.266	-5.138		
							484	65	12.22	11.84	11.52	9.64	-2.386	-2.586	-3.086	-4.786		
								S66	12.12	11.99	11.42	9.79	-2.390	-2.312	-3.090	-4.512		
0.40	-2.40			6345	79	SU	--	16.49	16.73	16.89	14.33	-4.097	-3.680	-3.517	-5.900			
						484	65	11.06	11.26	11.46	8.86	-3.409	-3.274	-3.009	-5.674			
							S66	11.07	11.44	11.47	9.04	-3.160	-2.847	-2.760	-5.247			

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-5) – Ant 6



20MHz - Mid Ch (106+26)T RU82 (UNII-5) – Ant 6

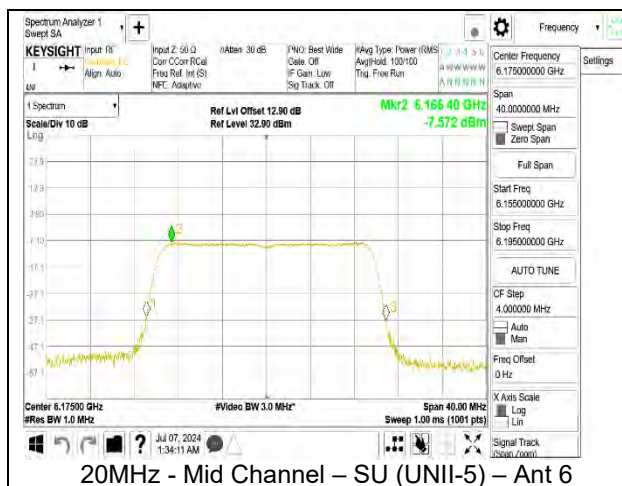
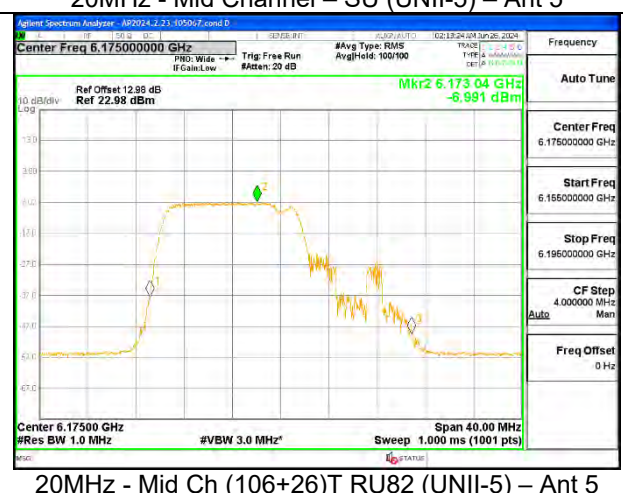
9.4.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – LOW POWER

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 6	Ant 5		Ant 6	Ant 5	
20MHz	0.00	0.00	-0.23	2.58	5955	1	SU	--	2.69	3.71	6.01	-8.817	-7.454	-2.492
							106+26	82	0.74	1.27	3.79	-8.384	-7.702	-2.439
							83	0.71	1.32	3.81	-8.664	-7.563	-2.488	
			-1.39	1.59	6175	45	SU	--	3.88	4.06	5.59	-7.572	-7.519	-2.945
							106+26	82	1.73	1.79	3.38	-7.568	-6.991	-2.670
							83	1.72	1.62	3.29	-7.341	-7.052	-2.594	
			-0.78	2.12	6415	93	SU	--	3.49	3.97	5.97	-7.783	-7.509	-2.514
							106+26	82	1.24	1.72	3.72	-7.945	-7.313	-2.487
							83	1.19	1.71	3.69	-8.085	-7.541	-2.674	
40MHz	0.00	0.00	-0.23	2.58	5965	3	SU	--	5.91	6.61	9.05	-8.551	-7.833	-2.587
							106+26	82	0.63	1.27	3.74	-8.907	-7.848	-2.755
							84	0.55	1.41	3.78	-8.827	-7.612	-2.587	
							85	0.65	1.33	3.78	-8.691	-7.515	-2.473	
							106+26	--	6.99	7.07	8.68	-8.264	-7.817	-3.434
			-1.36	1.59	6165	43	106+26	82	1.72	1.99	3.51	-9.009	-7.777	-3.745
							84	1.61	1.9	3.41	-8.648	-7.706	-3.551	
							85	1.63	1.97	3.45	-8.721	-7.415	-3.419	
							SU	--	6.49	6.84	8.90	-8.144	-8.032	-2.957
							106+26	82	1.23	1.74	3.72	-8.477	-8.871	-3.536
			-0.78	2.12	6405	91	106+26	84	1.21	1.71	3.70	-8.133	-7.968	-2.919
							85	1.24	1.59	3.65	-8.101	-8.137	-2.989	
SU	--	8.99					9.72	12.15	-9.203	-7.506	-2.682			
80MHz	0.00	0.00	-0.23	2.58	5985	7	SU	--	8.99	9.72	12.15	-9.203	-7.506	-2.682
							52	37	-3.35	-2.59	-0.17	-9.127	-7.861	-2.858
							45	-3.33	-2.61	-0.17	-9.132	-7.812	-2.832	
							52	-3.26	-2.62	-0.15	-9.328	-7.734	-2.868	
							106+26	--	9.99	10.22	11.76	-8.800	-8.024	-3.794
			-1.36	1.59	6145	39	106+26	37	-2.41	-2.09	-0.60	-9.565	-7.481	-3.799
							45	-2.33	-2.12	-0.57	-9.741	-8.575	-4.519	
							52	-2.29	-2.05	-0.52	-9.446	-7.998	-4.062	
							SU	--	9.49	9.94	11.95	-9.015	-7.545	-3.088
							106+26	37	-2.81	-2.28	-0.31	-10.661	-7.964	-3.976
			-0.78	2.12	6385	87	106+26	45	-2.8	-2.26	-0.29	-10.893	-7.559	-3.783
							52	-2.81	-2.45	-0.40	-10.88	-7.607	-3.812	
							SU	--	11.22	11.92	14.36	-9.976	-8.162	-3.205
160MHz	0.18	0.00	-0.23	2.58	6025	15	484	65	5.99	6.59	9.08	-8.741	-7.739	-2.621
							566	5.98	6.52	9.04	-8.225	-7.861	-2.449	
							SU	--	12.24	12.37	13.96	-8.659	-7.773	-3.413
			-1.36	1.59	6185	47	484	65	6.99	7.24	8.77	-7.246	-7.299	-2.672
							566	6.85	7.22	8.69	-7.694	-7.768	-3.131	
							SU	--	11.73	12.18	14.19	-8.942	-8.216	-3.254
			-0.78	2.12	6345	79	484	65	6.42	6.2	8.54	-8.385	-7.527	-2.805
							566	6.49	6.78	8.87	-7.853	-7.596	-2.592	
							SU	--	11.73	12.18	14.19	-8.942	-8.216	-3.254

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



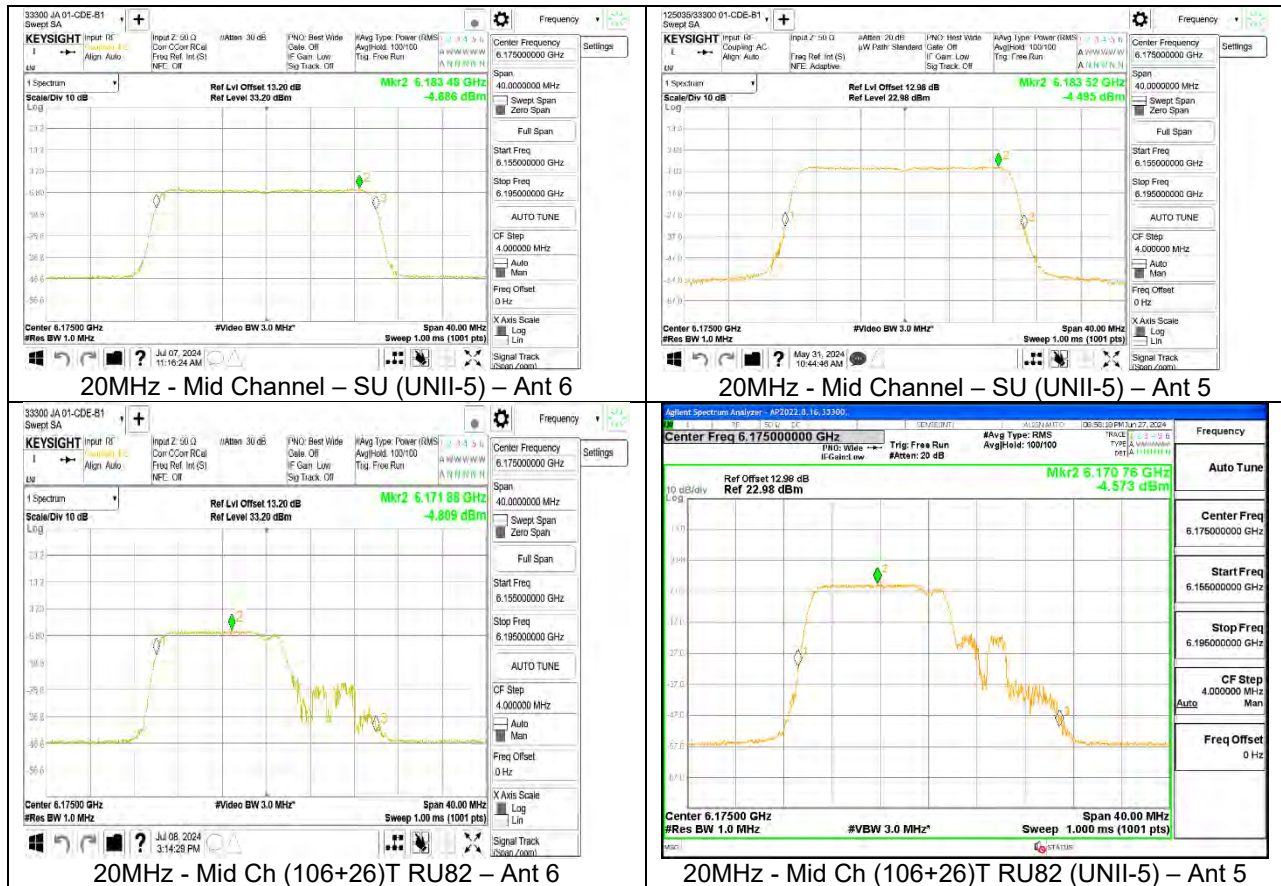
9.4.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND – LOW POWER

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 6	Ant 5		Ant 6	Ant 5	
20MHz	0.11	0.00	-0.23	2.58	5955	1	SU	--	5.68	6.63	8.96	-6.314	-4.931	-2.677
							106+26	82	3.43	4.42	6.73	-5.061	-4.681	-2.087
							106+26	83	3.49	4.39	6.74	-5.019	-4.537	-1.991
			-1.39	1.59	6175	45	SU	--	6.87	7.08	8.60	-4.686	-4.495	-2.859
							106+26	82	4.74	4.93	6.46	-4.809	-4.573	-3.069
							106+26	83	4.66	4.99	6.45	-4.687	-4.599	-3.022
			-0.78	2.12	6415	93	SU	--	6.44	6.57	8.74	-5.711	-5.111	-3.060
							106+26	82	4.04	4.40	6.45	-5.376	-5.084	-2.997
							106+26	83	4.01	4.48	6.48	-5.182	-4.734	-2.722
40MHz	0.11	0.00	-0.23	2.58	5965	3	SU	--	8.73	9.72	12.03	-6.009	-5.093	-2.637
							106+26	82	3.26	4.49	6.70	-5.934	-4.983	-2.652
							106+26	84	3.44	4.45	6.75	-5.942	-4.814	-2.561
			-1.39	1.59	6165	43	106+26	85	3.43	4.42	6.73	-5.772	-5.010	-2.594
							SU	--	9.90	10.15	11.65	-4.988	-4.313	-2.907
							106+26	82	4.54	4.83	6.31	-5.920	-5.109	-3.875
							106+26	84	4.74	4.98	6.48	-5.802	-5.399	-3.976
							106+26	85	4.59	4.98	6.41	-5.790	-5.232	-3.882
			-0.78	2.12	6405	91	SU	--	9.49	9.70	11.83	-5.435	-5.352	-3.053
							106+26	82	4.17	4.45	6.54	-5.378	-4.855	-2.878
							106+26	84	4.24	4.49	6.60	-5.205	-4.835	-2.786
							106+26	85	4.10	4.44	6.50	-5.496	-4.598	-2.794
80MHz	0.13	0.00	-0.23	2.58	5985	7	SU	--	11.71	12.74	15.04	-5.703	-5.123	-2.493
							52	37	-0.52	0.49	2.79	-5.241	-4.983	-2.330
							52	45	-0.55	0.34	2.70	-5.385	-5.163	-2.492
			-1.39	1.59	6145	39	52	52	-0.56	0.36	2.70	-5.439	-5.232	-2.554
							SU	--	12.92	13.16	14.66	-5.678	-5.395	-3.784
							52	37	0.72	0.97	2.47	-5.399	-5.195	-3.676
							52	45	0.74	0.84	2.41	-5.054	-5.081	-3.447
			-0.78	2.12	6385	87	52	52	0.68	0.91	2.42	-5.355	-5.110	-3.610
							SU	--	12.49	12.50	14.73	-5.286	-5.104	-2.834
							52	37	0.18	0.36	2.50	-5.977	-4.871	-3.159
							52	45	0.07	0.31	2.42	-5.914	-5.157	-3.289
							52	52	0.15	0.38	2.50	-5.090	-4.842	-2.734
160MHz	0.17	0.00	-0.23	2.58	6025	15	SU	--	13.99	14.97	17.29	-6.432	-5.459	-2.968
							484	65	8.67	9.67	11.98	-5.093	-4.667	-2.094
							484	S66	8.64	9.73	12.00	-5.171	-4.471	-2.027
			-1.39	1.59	6185	47	SU	--	15.24	15.49	16.99	-5.623	-5.367	-3.703
							484	65	9.90	10.21	11.68	-4.514	-4.405	-2.839
							484	S66	10.00	10.24	11.74	-4.656	-4.406	-2.909
			-0.78	2.12	6345	79	SU	--	14.74	14.93	17.07	-6.175	-5.902	-3.636
							484	65	9.44	9.70	11.80	-5.446	-5.003	-2.989
							484	S66	9.35	9.74	11.78	-5.462	-4.745	-2.858

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



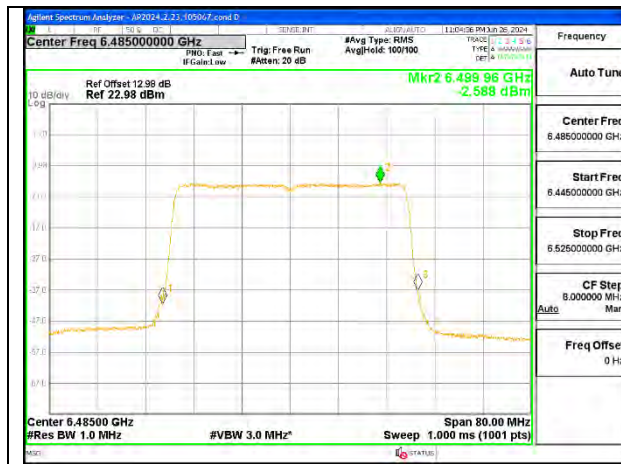
9.4.4. 802.11be SISO MODE IN THE UNII-6 BAND – LOW POWER

LP UNII-6 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 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 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5					
20MHz	0.00	0.00	-0.40	-2.50	6435	1	SU	--	8.99	8.92	8.59	6.42	-3.011	-2.597	-3.411	-5.097					
							106+26	82	6.70	6.67	6.30	4.17	-2.930	-2.782	-3.330	-5.282					
								83	6.71	6.62	6.31	4.12	-2.639	-2.367	-3.039	-4.867					
					6475	45	SU	--	8.95	8.73	8.55	6.23	-2.660	-2.802	-3.060	-5.302					
							106+26	82	6.65	6.67	6.25	4.17	-2.283	-2.314	-2.683	-4.814					
								83	6.61	6.69	6.21	4.19	-2.478	-2.098	-2.878	-4.598					
					6515	93	SU	--	8.95	8.87	8.55	6.37	-2.597	-2.627	-2.997	-5.127					
							106+26	82	6.56	6.60	6.16	4.10	-2.456	-2.350	-2.856	-4.850					
								83	6.56	6.64	6.16	4.14	-2.479	-2.514	-2.879	-5.014					
					40MHz	0.00	0.00	-0.40	-2.50	6445	99	SU	--	11.88	11.97	11.48	9.47	-2.792	-2.333	-3.192	-4.833
												106+26	82	6.71	6.70	6.31	4.20	-3.167	-3.277	-3.567	-5.777
													84	6.74	6.74	6.34	4.24	-2.967	-2.742	-3.367	-5.242
6485	107	SU	--	11.85						11.95	11.45	9.45	-2.191	-2.588	-2.591	-5.088					
		106+26	82	6.59						6.63	6.19	4.13	-3.309	-2.921	-3.709	-5.421					
			84	6.58						6.65	6.18	4.15	-2.882	-2.529	-3.282	-5.029					
6525 (Straddle)	115	SU	--	11.88						11.75	11.48	9.85	-2.194	-2.429	-2.594	-4.329					
		106+26	82	6.74						6.57	6.34	4.67	-3.168	-3.152	-3.568	-5.052					
			84	6.70						6.60	6.30	4.70	-2.839	-2.736	-3.239	-4.636					
80MHz	0.00	0.00	-0.40	-2.50						6465	103	SU	--	14.89	14.92	14.49	12.42	-2.552	-2.338	-2.952	-4.838
												52	37	2.66	2.71	2.26	0.21	-2.654	-2.256	-3.054	-4.756
													45	2.56	2.70	2.16	0.20	-2.689	-2.436	-3.089	-4.936
160MHz	0.18	0.00	-0.40	-1.90	6505 (Straddle)	111	SU	--	17.15	17.11	16.75	15.21	-3.048	-2.910	-3.268	-4.630					
							484	65	11.81	11.92	11.41	10.02	-2.721	-2.044	-3.121	-3.944					
								S66	11.97	11.89	11.57	9.99	-2.479	-2.480	-2.879	-4.380					

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)



40MHz - Mid Channel – SU (UNII-6) – Ant 5



40MHz - Mid Ch (106+26)T RU82 (UNII-6) – Ant 5

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 6	Ant 5		Ant 6	Ant 5		
20MHz	0.00	0.00	-1.32	1.62	6435	97	SU	--	3.91	4.16	5.73	-7.754	-7.448	-2.968	
							106+26	82	1.73	1.80	3.46	-7.472	-7.284	-2.747	
								83	1.74	1.75	3.44	-7.545	-7.345	-2.814	
					6475	105	SU	--	3.90	4.12	5.70	-7.391	-7.497	-2.813	
							106+26	82	1.48	1.93	3.40	-7.472	-7.383	-2.797	
								83	1.53	1.97	3.45	-7.410	-7.211	-2.679	
					6515	113	SU	--	3.99	4.24	5.81	-7.622	-7.528	-2.944	
							106+26	82	1.44	1.93	3.38	-7.477	-7.024	-2.614	
								83	1.62	1.92	3.46	-7.778	-6.997	-2.740	
40MHz	0.00	0.00	-1.32	1.62	6445	99	SU	--	6.90	7.06	8.67	-7.563	-7.239	-2.768	
							106+26	82	1.63	1.86	3.44	-7.552	-7.774	-3.031	
								84	1.69	1.97	3.52	-7.525	-7.193	-2.726	
								85	1.58	1.81	3.39	-7.305	-7.250	-2.647	
					6485	107	SU	--	6.75	7.18	8.66	-7.418	-6.973	-2.560	
							106+26	82	1.59	1.87	3.42	-7.620	-7.649	-3.004	
								84	1.74	1.92	3.52	-7.950	-7.093	-2.870	
			-1.09	1.89		6525 (Straddle)	115	85	1.67	1.95	3.50	-7.511	-7.346	-2.797	
								SU	--	6.71	6.87	8.71	-7.829	-8.525	-3.263
								106+26	82	1.36	1.70	3.45	-7.317	-7.029	-2.270
									84	1.49	1.73	3.53	-7.349	-7.515	-2.531
									85	1.45	1.72	3.51	-7.689	-7.32	-2.600
								80MHz	0.00	0.00	-1.32	1.62	6465	103	SU
52	37	-2.42	-2.15	-0.59	-8.607	-7.72	-3.511								
	45	-2.37	-2.18	-0.58	-7.942	-7.518	-3.095								
	52	-2.41	-2.14	-0.58	-7.905	-7.019	-2.809								
160MHz	0.18	0.00	-1.09	1.89	6505 (Straddle)	111	SU								--
							484	65	6.64	6.73	8.61	-7.732	-7.554	-2.742	
								566	6.66	6.79	8.65	-7.857	-7.512	-2.781	

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



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



40MHz - Mid Channel - SU (UNII-6) - Ant 5



40MHz - Mid Ch (106+26)T RU82 (UNII-6) - Ant 6



40MHz - Mid Ch (106+26)T RU82 (UNII-6) - Ant 5

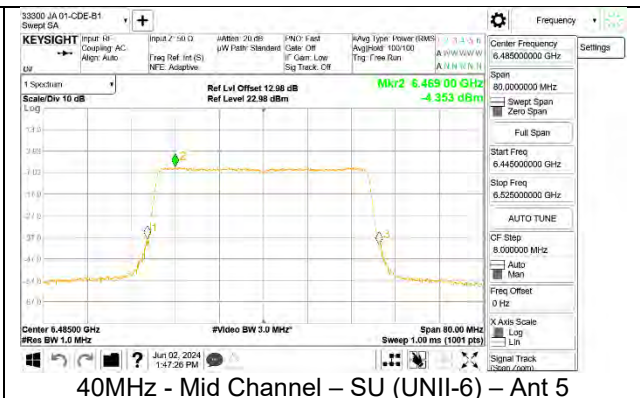
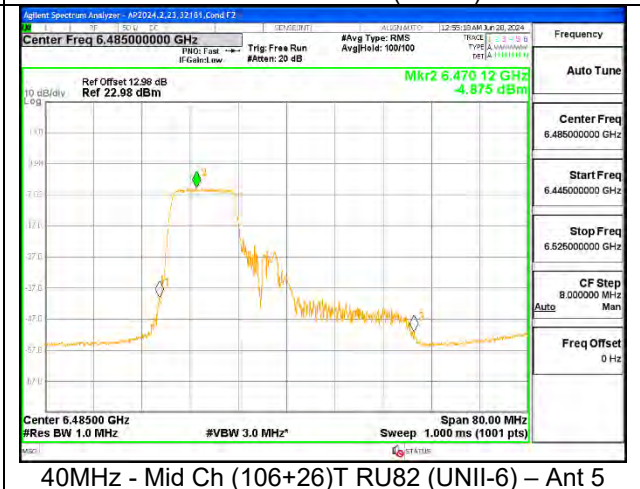
9.4.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND – LOW POWER

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 6	Ant 5		Ant 6	Ant 5						
20MHz	0.11	0.00	-1.32	1.62	6435	97	SU	--	6.82	6.91	8.56	-4.666	-4.770	-2.917					
							106+26	82	4.65	4.74	6.39	-4.65	-4.465	-2.866					
								83	4.74	4.62	6.37	-4.644	-4.621	-2.942					
					6475	105	SU	--	6.98	6.99	8.68	-4.585	-4.623	-2.804					
							106+26	82	4.70	4.74	6.41	-4.427	-4.647	-2.845					
								83	4.73	4.63	6.37	-4.407	-4.717	-2.869					
					6515	113	SU	--	6.83	6.89	8.55	-4.779	-4.717	-2.948					
							106+26	82	4.70	4.6	6.34	-4.45	-4.791	-2.927					
								83	4.70	4.7	6.39	-4.586	-4.692	-2.948					
					40MHz	0.11	0.00	-1.32	1.62	6445	97	SU	--	9.78	9.94	11.55	-4.360	-4.520	-2.639
												106+26	82	4.70	4.55	6.32	-4.789	-4.965	-3.186
													84	4.69	4.68	6.38	-4.742	-4.807	-3.084
6485	105	85	4.68	4.6						6.33	-4.881	-4.921	-3.211						
		SU	--	9.99						9.73	11.55	-4.372	-4.353	-2.562					
		106+26	82	4.72						4.58	6.34	-4.783	-4.875	-3.138					
-1.09	1.89		6525 (Straddle)	115				84	4.60	4.53	6.26	-4.596	-4.993	-3.100					
		85						4.58	4.64	6.30	-4.739	-4.69	-3.024						
		SU						--	9.62	9.97	11.72	-4.950	-4.501	-2.689					
		106+26						82	4.40	4.51	6.38	-5.338	-4.901	-3.194					
								84	4.32	4.58	6.37	-4.957	-4.597	-2.853					
		85						4.42	4.6	6.43	-5.011	-4.76	-2.963						
80MHz	0.13	0.00	-1.32	1.62	6465	103	SU	--	12.98	12.90	14.63	-4.190	-4.246	-2.398					
							52	37	0.63	0.69	2.35	-4.312	-4.329	-2.630					
								45	0.67	0.69	2.37	-4.582	-4.401	-2.800					
								52	0.74	0.74	2.43	-4.494	-4.132	-2.619					
160MHz	0.17	0.00	-1.09	1.89	6505 (Straddle)	111	SU	--	14.93	15.24	17.01	-5.225	-4.324	-2.661					
							484	65	9.68	9.91	11.72	-4.970	-4.237	-2.668					
								566	9.67	9.89	11.70	-5.244	-4.668	-3.026					

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + 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 6 Gain (dBi)	Ant 5 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 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5
20MHz	0.00	0.00	-0.50	-1.90	6535	117	SU	--	9.24	9.70	8.74	7.80	-2.541	-1.847	-3.041	-3.747
							0	0.11	0.67	-0.39	-1.23	-2.948	-1.847	-3.448	-3.747	
							4	0.23	0.72	-0.27	-1.18	-3.256	-2.624	-3.756	-4.524	
							8	0.12	0.68	-0.38	-1.22	-2.453	-1.841	-2.953	-3.741	
					6715	149	SU	--	9.25	9.74	8.75	7.84	-2.676	-1.627	-3.176	-3.527
							0	0.24	0.72	-0.26	-1.18	-2.634	-1.545	-3.134	-3.445	
							4	0.22	0.73	-0.28	-1.17	-3.384	-2.521	-3.884	-4.421	
			-0.50	-1.90	6875 (Straddle)	185	8	0.12	0.57	-0.38	-1.33	-2.561	-1.571	-3.061	-3.471	
							SU	--	9.24	9.61	8.74	7.71	-2.749	-1.627	-3.249	-3.527
							0	0.24	0.53	-0.26	-1.37	-3.689	-1.791	-4.189	-3.691	
							4	0.22	0.52	-0.28	-1.38	-3.692	-2.593	-4.192	-4.493	
							8	0.21	0.66	-0.29	-1.24	-3.193	-1.743	-3.693	-3.643	
							26	--	9.24	9.61	8.74	7.71	-2.749	-1.627	-3.249	-3.527
40MHz	0.00	0.00	-0.50	-1.90	6565	123	SU	--	12.24	12.59	11.74	10.69	-2.615	-1.848	-3.115	-3.748
							82	6.99	7.37	6.49	5.47	-2.75	-1.614	-3.250	-3.514	
							106+26	84	6.98	7.24	6.48	5.34	-2.501	-1.628	-3.001	-3.528
							85	6.9	7.48	6.40	5.58	-2.615	-1.404	-3.115	-3.304	
					6685	147	SU	--	12.24	12.66	11.74	10.76	-3.186	-1.766	-3.686	-3.666
							82	6.86	7.27	6.36	5.37	-2.882	-1.545	-3.382	-3.445	
							106+26	84	6.89	7.44	6.39	5.54	-2.928	-1.632	-3.428	-3.532
							85	6.99	7.41	6.49	5.51	-2.954	-1.483	-3.454	-3.383	
					6845	179	SU	--	12.14	12.62	11.64	10.72	-3.750	-1.530	-4.250	-3.430
							82	6.96	7.46	6.46	5.56	-4.043	-1.322	-4.543	-3.222	
							106+26	84	6.91	7.45	6.41	5.55	-3.659	-1.71	-4.159	-3.610
							85	6.98	7.3	6.48	5.40	-3.562	-1.306	-4.062	-3.206	
80MHz	0.00	0.00	-0.40	-1.90	6545 (Straddle)	119	SU	--	14.99	14.75	14.59	12.85	-2.517	-2.304	-2.917	-4.204
							37	2.64	2.59	2.24	0.69	-2.039	-2.243	-2.439	-4.143	
							52	45	2.59	2.57	2.19	0.67	-2.613	-2.824	-3.013	-4.724
							52	2.71	2.59	2.31	0.69	-2.805	-2.687	-3.205	-4.587	
			-0.50	-1.90	6705	151	SU	--	15.24	15.69	14.74	13.79	-2.897	-1.789	-3.397	-3.689
							37	2.86	3.27	2.36	1.37	-2.790	-1.665	-3.290	-3.565	
							52	45	2.90	3.36	2.40	1.46	-3.221	-1.450	-3.721	-3.350
							52	2.87	3.35	2.37	1.45	-2.973	-1.589	-3.473	-3.489	
			-0.50	-1.90	6865 (Straddle)	183	SU	--	15.23	15.71	14.73	13.81	-2.938	-1.749	-3.438	-3.649
							37	2.96	3.24	2.46	1.34	-3.320	-2.065	-3.820	-3.965	
							52	45	2.94	3.20	2.44	1.30	-3.488	-1.877	-3.988	-3.777
							52	2.99	3.20	2.49	1.30	-2.540	-1.563	-3.040	-3.463	
160MHz	0.18	0.00	-0.50	-1.90	6665	143	SU	--	17.41	17.92	16.91	16.02	-2.956	-2.333	-3.276	-4.053
							484	65	12.23	12.73	11.73	10.83	-2.099	-1.471	-2.599	-3.371
							S66	12.18	12.65	11.68	10.75	-2.872	-1.552	-3.372	-3.452	
			-0.50	-1.90	6825 (Straddle)	175	SU	--	17.49	17.95	16.99	16.05	-3.108	-1.999	-3.428	-3.719
							484	65	12.22	12.69	11.72	10.79	-2.411	-1.698	-2.911	-3.598
							S66	12.20	12.51	11.70	10.61	-2.260	-1.840	-2.760	-3.740	

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)



80MHz - Mid Channel – SU (UNII-7) – Ant 6



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 6

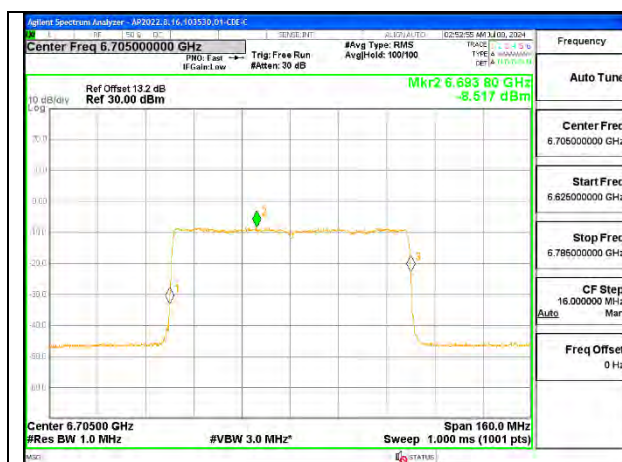
9.4.8. 802.11be MIMO CDD MODE IN THE UNII-7 BAND – LOW POWER

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 6	Ant 5		Ant 6	Ant 5	
20MHz	0.00	0.00	-1.14	1.84	6535	117	SU	--	3.74	3.67	5.58	-7.718	-7.721	-2.869
								0	-5.41	-5.27	-3.47	-8.072	-7.838	-3.103
							26	4	-5.26	-5.29	-3.40	-8.982	-8.926	-4.104
								8	-5.36	-5.34	-3.48	-7.552	-7.741	-2.795
					6715	149	SU	--	3.74	3.75	5.62	-8.076	-7.539	-2.949
								0	-5.37	-5.19	-3.41	-8.333	-7.738	-3.175
							26	4	-5.33	-5.19	-3.39	-9.428	-8.654	-4.173
								8	-5.29	-5.1	-3.32	-7.976	-7.591	-2.929
			-1.14	1.84	6875 (Straddle)	185	SU	--	3.74	3.90	5.69	-8.742	-7.438	-3.191
								0	-5.25	-5.15	-3.33	-8.716	-7.871	-3.423
							26	4	-5.35	-5.15	-3.38	-9.858	-8.72	-4.402
								8	-5.33	-5.07	-3.33	-8.411	-8.065	-3.384
40MHz	0.00	0.00	-1.14	1.84	6565	123	SU	--	6.55	6.92	8.61	-8.234	-7.697	-3.107
								82	1.33	1.7	3.39	-8.589	-7.467	-3.142
							106+26	84	1.44	1.66	3.42	-8.107	-7.636	-3.015
								85	1.18	1.72	3.33	-8.372	-7.583	-3.109
					6685	147	SU	--	6.65	6.89	8.64	-8.538	-7.235	-2.988
								82	1.45	1.66	3.43	-8.022	-7.531	-2.919
							106+26	84	1.44	1.69	3.44	-7.804	-7.205	-2.644
								85	1.33	1.5	3.29	-7.524	-7.434	-2.628
					6845	179	SU	--	6.65	6.81	8.60	-9.069	-7.562	-3.400
								82	1.24	1.6	3.29	-10.294	-7.134	-3.582
							106+26	84	1.41	1.72	3.44	-9.681	-7.493	-3.600
								85	1.32	1.68	3.37	-9.929	-7.357	-3.605
80MHz	0.00	0.00	-1.09	1.89	6545 (Straddle)	119	SU	--	9.74	9.97	11.78	-7.784	-7.245	-2.606
								37	-2.51	-2.40	-0.53	-8.172	-7.705	-3.032
							52	45	-2.53	-2.30	-0.49	-8.325	-7.878	-3.195
								52	-2.52	-2.30	-0.49	-7.907	-7.871	-2.989
			-1.14	1.84	6705	151	SU	--	9.67	9.94	11.68	-8.517	-7.629	-3.200
								37	-2.67	-2.35	-0.64	-8.494	-7.678	-3.217
							52	45	-2.61	-2.42	-0.64	-8.959	-7.941	-3.570
								52	-2.62	-2.28	-0.58	-8.691	-7.334	-3.109
			-1.14	1.84	6865 (Straddle)	183	SU	--	9.74	9.89	11.69	-8.597	-7.685	-3.267
								37	-2.51	-2.42	-0.59	-9.066	-7.986	-3.642
							52	45	-2.62	-2.44	-0.66	-8.986	-8.041	-3.638
								52	-2.50	-2.47	-0.61	-8.580	-7.785	-3.314
160MHz	0.18	0.00	-1.14	1.84	6665	143	SU	--	11.99	12.15	13.94	-8.631	-8.306	-3.435
							484	65	6.63	6.80	8.59	-7.900	-7.817	-3.008
								566	6.74	6.85	8.67	-8.110	-7.709	-3.055
			-1.14	1.84	6825 (Straddle)	175	SU	--	11.99	12.08	13.91	-8.463	-8.381	-3.392
							484	65	6.69	6.72	8.58	-8.174	-7.581	-3.017
								566	6.68	6.75	8.59	-7.791	-7.658	-2.874

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



80MHz - Mid Channel - SU (UNII-7) - Ant 6



80MHz - Mid Channel - SU (UNII-7) - Ant 5



80MHz - Mid Channel - 52T RU37 (UNII-7) - Ant 6



80MHz - Mid Channel - 52T RU37 (UNII-7) - Ant 5

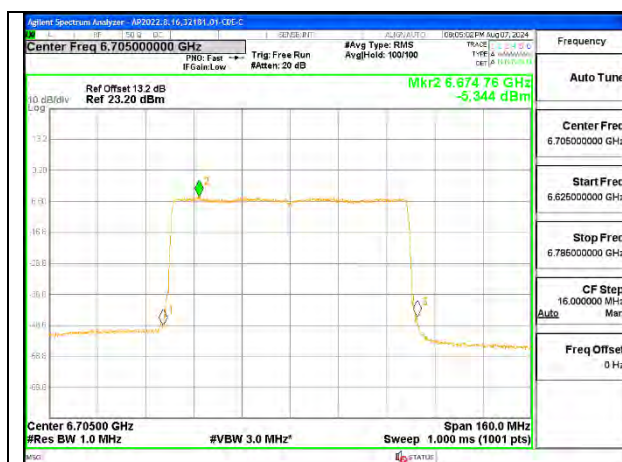
9.4.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND – LOW POWER

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 6	Ant 5		Ant 6	Ant 5	
20MHz	0.11	0.00	-1.14	1.84	6535	117	SU	--	6.67	6.99	8.70	-4.923	-4.521	-2.737
							0	--	-2.59	-2.01	-0.42	-4.985	-4.533	-2.883
							4	--	-2.5	-2.02	-0.38	-5.901	-5.387	-3.766
							8	--	-2.48	-2.13	-0.43	-4.947	-5.033	-3.119
					6695	149	SU	--	6.62	6.99	8.68	-4.906	-4.736	-2.840
							0	--	-2.49	-2.02	-0.38	-5.479	-4.836	-3.275
							4	--	-2.5	-2.01	-0.38	-6.133	-5.541	-3.957
							8	--	-2.66	-2.14	-0.52	-5.183	-4.7	-3.064
			-1.14	1.84	6875 (Straddle)	185	SU	--	6.61	6.91	8.63	-4.99	-4.888	-2.958
							0	--	-2.3	-2.15	-0.35	-5.493	-4.874	-3.302
							4	--	-2.33	-2.1	-0.34	-6.563	-6.037	-4.422
							8	--	-2.3	-2.13	-0.34	-5.212	-4.91	-3.188
40MHz	0.11	0.00	-1.14	1.84	6565	123	SU	--	9.74	9.80	11.64	-5.081	-4.715	-2.914
							82	--	4.49	4.58	6.41	-5.565	-4.494	-3.126
							84	--	4.46	4.65	6.43	-5.468	-4.726	-3.211
							85	--	4.47	4.62	6.42	-5.283	-4.808	-3.169
					6685	147	SU	--	9.58	9.92	11.62	-4.687	-4.752	-2.739
							82	--	4.47	4.55	6.41	-5.446	-4.814	-3.248
							84	--	4.49	4.6	7.52	-5.805	-4.611	-3.297
							85	--	4.45	4.52	6.36	-5.427	-4.751	-3.206
					6845	179	SU	--	9.69	9.95	11.69	-5.500	-4.96	-3.241
							82	--	4.45	4.61	6.40	-5.602	-4.974	-3.406
							84	--	4.41	4.63	6.39	-5.660	-5.171	-3.538
							85	--	4.42	4.62	6.39	-5.468	-5.084	-3.401
80MHz	0.13	0.00	-1.09	1.89	6545 (Straddle)	119	SU	--	12.61	12.78	14.62	-4.998	-4.613	-2.751
							37	--	0.31	0.69	2.42	-5.453	-5.438	-3.525
							45	--	0.38	0.74	2.48	-5.781	-5.219	-3.571
							52	--	0.48	0.74	2.53	-5.607	-5.194	-3.475
			-1.14	1.84	6705	151	SU	--	12.74	12.90	14.69	-5.344	-4.746	-3.034
							37	--	0.48	0.66	2.44	-5.165	-5.16	-3.292
							45	--	0.47	0.73	2.47	-5.515	-5.391	-3.582
							52	--	0.46	0.74	2.47	-5.367	-5.3	-3.463
			-1.14	1.84	6865 (Straddle)	183	SU	--	12.72	12.98	14.72	-5.465	-4.915	-3.181
							37	--	0.36	0.61	2.36	-5.893	-5.442	-3.791
							45	--	0.38	0.58	2.35	-5.958	-5.59	-3.900
							52	--	0.35	0.67	2.38	-6.198	-5.493	-3.961
160MHz	0.17	0.00	-1.14	1.84	6665	143	SU	--	14.99	15.17	16.95	-5.583	-5.137	-3.314
							65	--	9.74	9.94	11.71	-5.13	-4.59	-2.981
							S66	--	9.67	9.91	11.66	-5.177	-4.164	-2.771
			-1.14	1.84	6825 (Straddle)	175	SU	--	14.95	15.20	16.95	-5.549	-5.323	-3.394
							65	--	9.61	9.88	11.62	-5.305	-4.242	-2.871
							S66	--	9.74	9.85	11.67	-5.061	-4.541	-1.783

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



80MHz - Mid Channel – SU (UNII-7) – Ant 6



80MHz - Mid Channel – SU (UNII-7) – Ant 5



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 6



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 5

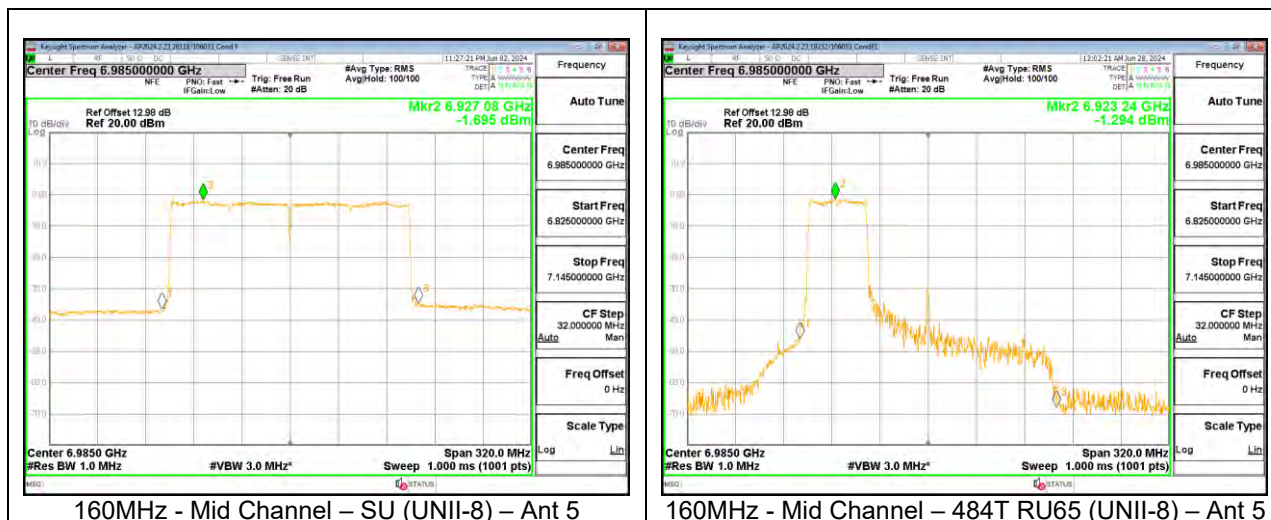
9.4.10. 802.11be SISO MODE IN THE UNII-8 BAND – LOW POWER

LP UNII-8 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 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 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5							
20MHz	0.00	0.00	-2.00	-3.60	6895	189	SU	--	10.63	10.13	8.63	6.53	-0.839	-1.358	-2.839	-4.958							
							106+26	82	8.49	7.91	6.49	4.31	-0.782	-1.05	-2.782	-4.650							
								83	8.38	7.94	6.38	4.34	-0.517	-1.054	-2.517	-4.654							
					6995	209	SU	--	10.74	10.19	8.74	6.59	-0.931	-1.022	-2.931	-4.622							
							106+26	82	8.49	7.97	6.49	4.37	-0.527	-1.202	-2.527	-4.802							
								83	8.45	7.91	6.45	4.31	-0.436	-1.248	-2.436	-4.848							
					7095	229	SU	--	10.69	10.24	8.69	6.64	-0.772	-1.209	-2.772	-4.809							
							106+26	82	8.44	7.86	6.44	4.26	-0.401	-1.326	-2.401	-4.926							
								83	8.46	7.80	6.46	4.20	-0.491	-1.325	-2.491	-4.925							
					7115	233	SU	--	-5.59	-5.67	-7.59	-9.27	-17.519	-17.513	-19.519	-21.113							
							40MHz	0.00	0.00	-0.50	-1.90	6885 (Straddle)	187	SU	--	12.23	12.68	11.73	10.78	-1.973	-1.291	-2.473	-3.191
														106+26	82	6.93	7.46	6.43	5.56	-1.824	-1.284	-2.324	-3.184
84	6.96	7.41	6.46	5.51	-1.487	-1.489									-1.987	-3.389							
-2.00	-3.60	6965	203	85	6.98	7.31				6.48	5.41	-1.627	-1.671	-2.127	-3.571								
				SU	--	13.72				13.12	11.72	9.52	-0.896	-1.174	-2.896	-4.774							
				106+26	82	8.48				7.88	6.48	4.28	-0.802	-1.229	-2.802	-4.829							
84	8.48	7.92	6.48		4.32	-0.634				-1.213	-2.634	-4.813											
7085	227	85	8.46	7.87	6.46	4.27				-0.878	-1.264	-2.878	-4.864										
		SU	--	13.74	13.24	11.74				9.64	-1.140	-1.621	-3.140	-5.221									
		106+26	82	8.48	7.86	6.48				4.26	-0.713	-1.536	-2.713	-5.136									
84	8.39		7.91	6.39	4.31	-0.841				-1.569	-2.841	-5.169											
80MHz	0.00	0.00	-2.00	-3.60	6945	199				SU	--	16.72	16.05	14.72	12.45	-0.812	-1.222	-2.812	-4.822				
							484	65	13.73	13.06	11.73	9.46	-1.109	-1.505	-3.109	-5.105							
								66	13.69	13.12	11.69	9.52	-0.883	-1.112	-2.883	-4.712							
160MHz	0.18	0.00	-2.00	-3.60	6985	207	SU	--	16.69	16.22	14.69	12.62	-0.741	-1.581	-2.741	-5.181							
							484	65	13.74	13.23	11.74	9.63	-0.914	-1.797	-2.914	-5.397							
								66	13.66	13.16	11.66	9.56	-0.736	-1.746	-2.736	-5.346							
160MHz	0.18	0.00	-2.00	-3.60	6985	207	SU	--	18.44	18.48	16.44	14.88	-1.432	-1.695	-3.252	-5.115							
							484	65	13.68	13.17	11.68	9.57	-0.768	-1.294	-2.768	-4.894							
								S66	13.71	13.23	11.71	9.63	-0.724	-1.572	-2.724	-5.172							

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)



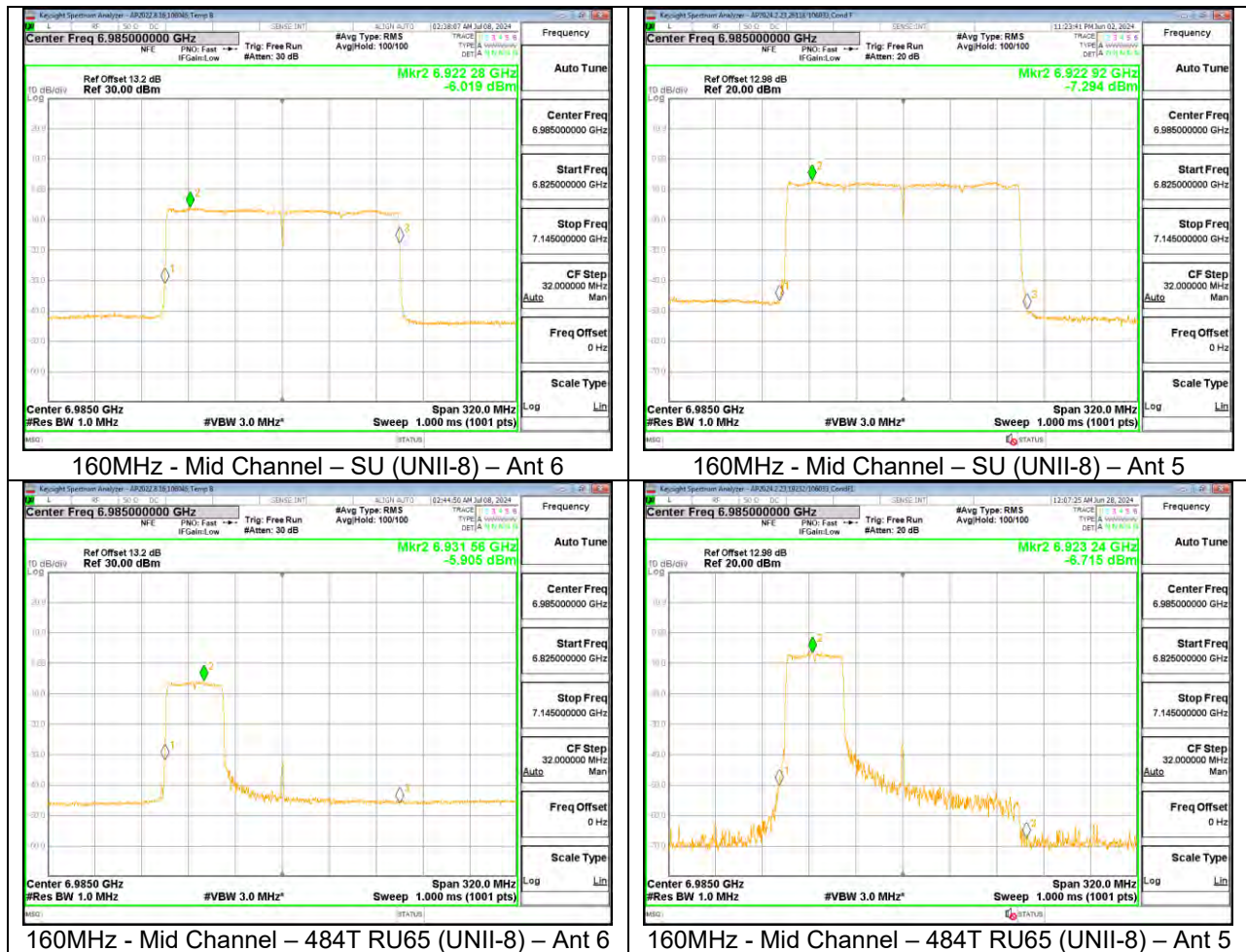
9.4.11. 802.11be MIMO CDD MODE IN THE UNII-8 BAND – LOW POWER

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 6	Ant 5		Ant 6	Ant 5				
20MHz	0.00	0.00	-2.73	0.25	6895	189	SU	--	5.67	4.94	5.60	-5.959	-6.482	-2.952			
							106+26	82	3.47	2.74	3.40	-5.588	-5.941	-2.501			
							83	3.36	2.72	3.33	-5.65	-6.007	-2.565				
					6995	209	SU	--	5.72	4.98	5.65	-5.797	-6.530	-2.888			
							106+26	82	3.49	2.73	3.41	-5.575	-6.322	-2.672			
							83	3.44	2.74	3.38	-5.543	-6.1	-2.552				
					7095	229	SU	--	5.71	4.56	5.45	-5.673	-6.580	-2.843			
							106+26	82	3.39	2.62	3.30	-5.493	-6.285	-2.611			
							83	3.49	2.56	3.33	-5.544	-6.417	-2.698				
					7115	233	SU	--	-6.66	-6.60	-6.35	-18.606	-18.412	-15.248			
40MHz	0.00	0.00	-1.14	1.84	6885 (Straddle)	187	SU	--	6.71	6.91	8.68	-7.829	-7.561	-2.843			
							82	1.5	1.63	3.44	-7.396	-7.132	-2.412				
							84	1.43	1.61	3.39	-7.038	-6.854	-2.095				
					-2.73	0.25	6965	203	85	1.49	1.64	3.44	-7.265	-7.187	-2.376		
									SU	--	8.72	7.92	8.62	-6.107	-6.61	-3.091	
									106+26	82	3.42	2.67	3.34	-5.742	-6.339	-2.770	
			7085	227			84	3.4	2.58	3.29	-5.947	-6.398	-2.906				
							85	3.49	2.58	3.34	-5.677	-6.799	-2.942				
							SU	--	8.74	7.94	8.64	-5.94	-6.403	-2.905			
			80MHz	0.00	0.00	-2.73	0.25	6945	199	82	3.49	2.55	3.33	-5.463	-6.502	-2.691	
										106+26	84	3.46	2.68	3.37	-5.646	-6.561	-2.819
										85	3.48	2.55	3.32	-5.574	-6.874	-2.915	
-2.73	0.25	7025				215	SU	--	11.65	10.99	11.61	-6.25	-6.934	-3.318			
							484	65	8.73	7.97	8.65	-5.947	-7.078	-3.215			
							66	8.73	7.87	8.60	-5.912	-7.092	-3.202				
160MHz	0.18	0.00	-2.73	0.25	6985	207	SU	--	11.72	10.89	11.61	-5.94	-7.074	-3.210			
							484	65	8.69	7.85	8.57	-5.709	-7.254	-3.153			
							66	8.67	7.84	8.56	-5.817	-7.168	-3.180				
							S66	--	13.91	13.12	13.81	-6.019	-7.294	-3.170			
								65	8.59	7.83	8.51	-5.905	-6.715	-3.031			
								484	S66	8.63	7.85	8.54	-5.8	-6.754	-2.991		

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Cycle Factor (dB) + Correlated Antenna Gain (dBi)



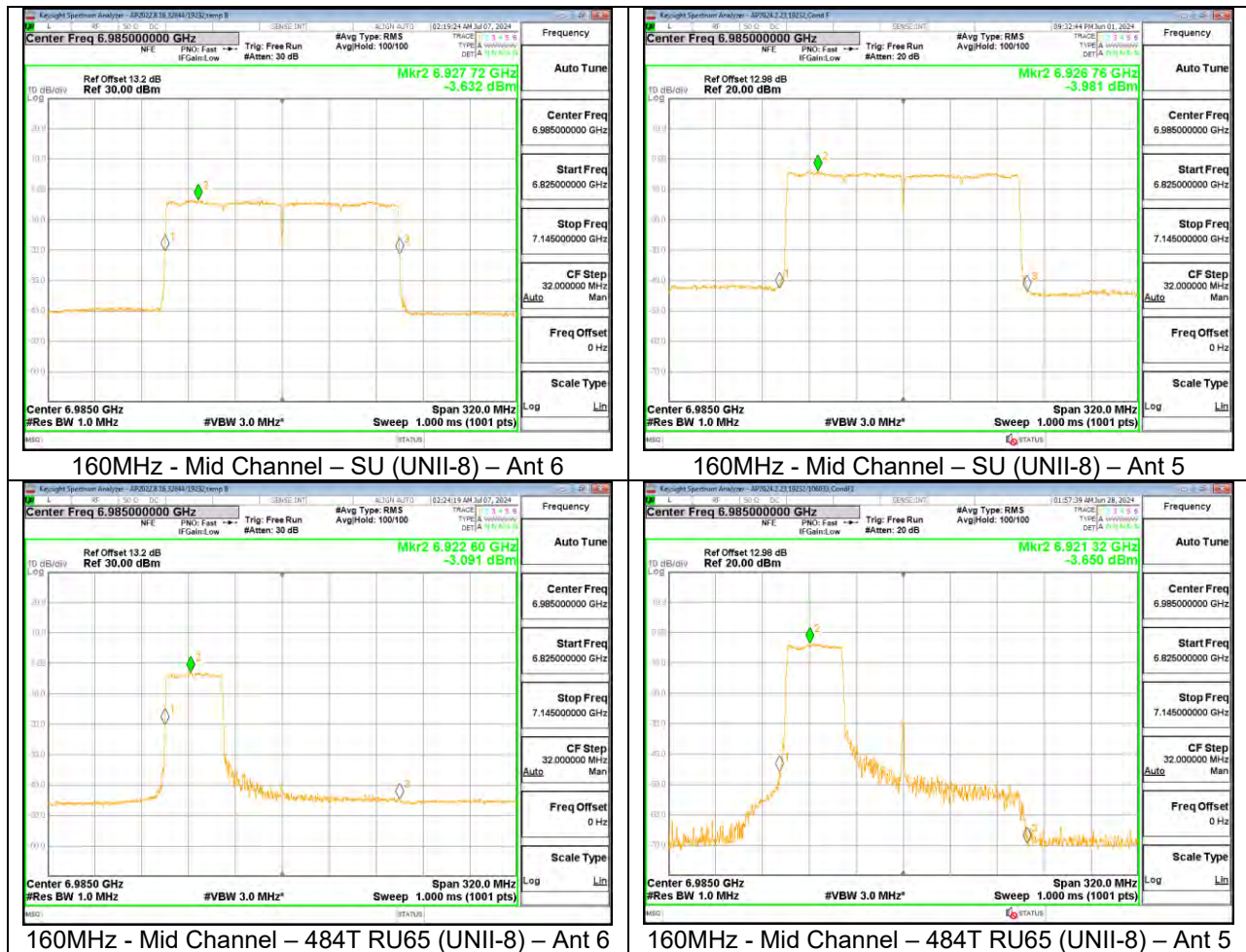
9.4.12. 802.11be MIMO SDM MODE IN THE UNII-8 BAND – LOW POWER

LP SDM 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 6	Ant 5		Ant 6	Ant 5			
20MHz	0.11	0.00	-2.73	0.25	6895	189	SU	--	8.69	7.84	8.57	-2.65	-3.156	-2.505		
							106+26	82	6.34	5.48	6.21	-2.628	-3.564	-2.791		
								83	6.46	5.56	6.31	-2.806	-3.701	-2.950		
					6995	209	SU	--	8.73	7.86	8.60	-2.806	-3.48	-2.740		
							106+26	82	6.49	5.66	6.38	-2.536	-3.786	-2.836		
								83	6.49	5.66	6.38	-2.616	-3.181	-2.609		
					7095	229	SU	--	8.74	7.57	8.47	-2.772	-3.557	-2.756		
							106+26	82	6.43	5.60	6.32	-2.492	-3.766	-2.802		
83	6.35	5.66	6.30	-2.516				-3.542	-2.718							
7115	233	SU	--	-6.55	-6.60	-6.29	-18.519	-18.704	-18.220							
		40MHz	0.11	0.00	-1.14	1.84	6885 (Straddle)	187	SU	--	9.74	9.85	11.67	-5.123	-4.846	-3.002
									106+26	82	4.49	4.74	6.49	-5.481	-5.372	-3.556
84	4.46									4.61	6.41	-5.443	-5.565	-3.633		
-2.73	0.25						85	4.47	4.72	6.47	-5.475	-5.697	-3.714			
							SU	--	11.73	10.94	11.63	-2.422	-3.601	-2.581		
							106+26	82	6.41	5.57	6.29	-3.156	-4.535	-3.511		
					84	6.37		5.73	6.34	-2.791	-4.234	-3.173				
					85	6.48	5.66	6.37	-2.655	-3.694	-2.863					
		6965	203	SU	--	11.74	10.89	11.62	-2.659	-3.221	-2.541					
				106+26	82	6.48	5.59	6.34	-2.687	-4.168	-3.084					
					84	6.45	5.6	6.33	-2.457	-3.898	-2.838					
		85	6.47	5.61	6.34	-2.591	-3.962	-2.942								
80MHz	0.13	0.00	-2.73	0.25	6945	199	SU	--	14.70	13.60	14.47	-3.096	-4.01	-3.119		
							484	65	11.61	10.55	11.39	-3.155	-3.942	-3.250		
								66	11.65	10.51	11.40	-2.904	-4.204	-3.225		
			-2.73	0.25	7025	215	SU	--	14.69	13.55	14.44	-3.06	-3.956	-3.075		
							484	65	11.72	10.55	11.45	-2.974	-3.915	-3.139		
								66	11.74	10.53	11.46	-2.516	-4.223	-3.006		
160MHz	0.17	0.00	-2.73	0.25	6985	207	SU	--	16.95	16.24	16.89	-3.632	-3.981	-3.353		
							484	65	11.74	10.87	11.61	-3.091	-3.65	-3.081		
								S66	11.65	10.89	11.57	-2.583	-3.811	-2.873		

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



9.5. SP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

(7)For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 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 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

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

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)	1.3	-2.60	-0.23	2.58
	Sub-band 2 (6115 - 6255)	-0.70	-2.20	-1.39	1.59
	Sub-band 3 (6275 - 6415)	0.40	-2.40	-0.78	2.12
6425 - 6525 UNII-6	N/A	-0.40	-2.50	-1.32	1.62
UNII-6/7 (Straddle Channel)	N/A	-0.40	-1.90	-1.09	1.89
6525 - 6875 UNII-7	N/A	-0.50	-1.90	-1.14	1.84
UNII-7/8 (Straddle Channel)	N/A	-0.50	-1.90	-1.14	1.84
6875 - 7125 UNII-8	N/A	-2.00	-3.60	-2.73	0.25

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

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

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

Sample Calculation at UNII-5 Band:

Ant6 = 1.3, Ant5 = -2.60

Uncorrelated Antenna gain= $10 \log[(10^{(1.3/10)} + 10^{(-2.60/10)})/2] = -0.23 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(0.3/20)} + 10^{(-2.60/20)})^2/2] = 2.58 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel 52T RU37) Power=12.71 dBm

EIRP corr'd power = 12.71 + (1.30) = 14.01 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 52T RU37) Power=12.74 dBm, Ant5 Power=12.6

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(12.74/10)} + 10^{(12.6/10)})$ + (-0.23) = 15.45 dBm

EIRP PSD Calculation:**1Tx**

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

Sample Calculation at UNII-5 Band:

Ant6(low channel 52T RU37) PSD= 7.367 dBm/1MHz

EIRP corr'd PSD = 0 + 7.367 + (1.30) = 8.667 dBm/1MHz

2Tx (CDD)

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 52T RU37) PSD=7.502 dBm/1MHz, Ant5 PSD=7.501dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0+7.502)/10)} + 10^{((0+7.501)/10)}))$ + (2.58) = 13.092 dBm/1MHz

9.5.1. 802.11be SISO MODE IN THE UNII-5 BAND – STANDARD POWER

SP UNII-5 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)				
	SU	Partial RU							Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5			
20MHz	0.00	0.00	1.30	-2.60	5955	1	SU	--	19.45	19.45	20.75	16.85	8.418	8.467	9.718	5.867			
							52	37	12.64	12.65	13.94	10.05	7.367	7.48	8.667	4.880			
								38	12.59	12.66	13.89	10.06	7.254	7.536	8.554	4.936			
								40	12.57	12.62	13.87	10.02	7.351	7.105	8.651	4.505			
			-0.70	-2.20	6175	45	SU	--	19.45	19.23	18.75	17.03	8.402	8.388	7.702	6.188			
							52	37	12.63	12.53	11.93	10.33	6.941	6.889	6.241	4.689			
								38	12.62	12.55	11.92	10.35	7.205	7.353	6.505	5.153			
								40	12.57	12.54	11.87	10.34	7.195	7.088	6.495	4.888			
			0.40	-2.40	6415	93	SU	--	19.45	19.33	19.85	16.93	8.310	8.353	8.710	5.953			
							52	37	12.66	12.57	13.06	10.17	7.199	7.397	7.599	4.997			
								38	12.52	12.63	12.92	10.23	7.222	7.345	7.622	4.945			
								40	12.73	12.61	13.13	10.21	7.231	7.07	7.631	4.670			
40MHz	0.00	0.00	1.30	-2.60	5965	3	SU	--	19.40	19.40	20.70	16.80	5.408	5.365	6.708	2.765			
							242	61	19.40	19.30	20.70	16.70	8.488	8.434	9.788	5.834			
								62	19.37	19.48	20.67	16.88	8.159	8.179	9.459	5.579			
								-0.70	-2.20	6165	43	SU	--	19.38	19.27	18.68	17.07	5.740	5.401
			242	61	19.42	19.48	18.72					17.28	8.126	8.182	7.426	5.982			
				62	19.39	19.41	18.69					17.21	8.284	8.171	7.584	5.971			
				0.40	-2.40	6405	91					SU	--	19.32	19.49	19.72	17.09	5.452	5.548
			242					61	19.35	19.32	19.75	16.92	8.422	8.219	8.822	5.819			
								62	19.31	19.38	19.71	16.98	8.460	8.381	8.860	5.981			
								80MHz	0.00	0.00	1.30	-2.60	5985	7	SU	--	19.39	19.42	20.69
			242	61	19.46	19.41	20.76								16.81	8.287	8.392	9.587	5.792
				62	19.30	19.49	20.60								16.89	8.188	8.292	9.488	5.692
64	19.44	19.46		20.74	16.86	8.474	8.102								9.774	5.502			
-0.70	-2.20	6145	39	SU	--	19.31	19.28				18.61	17.08	2.374	2.118	1.674	-0.082			
				242	61	19.43	19.31				18.73	17.11	8.208	7.865	7.508	5.665			
					62	19.32	19.34				18.62	17.14	8.078	7.852	7.378	5.652			
					64	19.30	19.42				18.60	17.22	8.400	8.074	7.700	5.874			
0.40	-2.40	6385	87	SU	--	19.33	19.39				19.73	16.99	2.400	2.503	2.800	0.103			
				242	61	19.40	19.40				19.80	17.00	8.484	8.159	8.884	5.759			
					62	19.40	19.31				19.80	16.91	8.364	8.159	8.764	5.759			
					64	19.38	19.44				19.78	17.04	8.374	8.245	8.774	5.845			
160MHz	0.18	0.00	1.30	-2.60	6025	15	SU	--	19.42	19.42	20.72	16.82	-0.559	-0.465	0.921	-2.885			
							242	61	19.43	19.32	20.73	16.72	8.409	8.233	9.709	5.633			
								64	19.31	19.33	20.61	16.73	8.240	8.062	9.540	5.462			
								S64	19.48	19.38	20.78	16.78	8.332	8.416	9.632	5.816			
			-0.70	-2.20	6185	47	SU	--	19.36	19.47	18.66	17.27	-0.649	-0.336	-1.169	-2.356			
							242	61	19.48	19.49	18.78	17.29	8.563	8.483	7.863	6.283			
								64	19.44	19.35	18.74	17.15	8.325	8.232	7.625	6.032			
								S64	19.45	19.40	18.75	17.20	5.560	8.090	4.860	5.890			
			0.40	-2.40	6345	79	SU	--	19.36	19.47	19.76	17.07	-0.614	-0.640	-0.034	-2.860			
							242	61	19.34	19.35	19.74	16.95	8.399	8.355	8.799	5.955			
								64	19.34	19.42	19.74	17.02	8.299	8.142	8.699	5.742			
								S64	19.41	19.47	19.81	17.07	8.163	8.215	8.563	5.815			

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)

9.5.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – STANDARD POWER

SP 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 = 30dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = 17 dBm/MHz EIRP)			
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5				
20MHz	0.00	0.00	-0.23	2.58	5955	1	SU	--	19.40	19.36	22.16	8.372	8.246	13.900			
							52	37	12.62	12.51	15.35	7.502	7.501	13.092			
								38	12.52	12.61	15.35	7.481	7.969	13.322			
			40	12.53	12.63	15.36		7.365	7.401	12.973							
			SU	--	19.40	19.24	20.94	8.412	8.630	13.123							
				52	37	12.56	12.59	14.20	7.21	7.129	11.770						
					38	12.62	12.67	14.27	6.96	7.279	11.723						
			40		12.56	12.59	14.20	7.124	7.257	11.791							
			SU	--	19.45	19.49	21.70	8.402	8.336	13.499							
				52	37	12.58	12.56	14.80	7.224	7.253	12.369						
					38	12.6	12.67	14.87	7.198	7.344	12.402						
			40		12.72	12.64	14.91	7.556	7.317	12.568							
40MHz	0.00	0.00	-0.23	2.58	5965	3	SU	--	19.35	19.36	22.14	5.773	5.437	11.199			
							242	61	19.38	19.35	22.15	8.175	8.290	13.823			
								62	19.45	19.28	22.15	8.274	8.250	13.852			
			SU	--	19.40	19.31	20.98	5.423	5.002	9.818							
				242	61	19.41	19.28	20.97	8.483	7.710	12.714						
					62	19.44	19.25	20.97	8.232	7.774	12.609						
			SU	--	19.33	19.21	21.50	5.711	5.394	10.686							
				242	61	19.30	19.33	21.55	8.305	8.524	13.546						
					62	19.41	19.30	21.59	8.311	8.098	13.336						
			80MHz	0.00	0.00	-0.23	2.58	5985	7	SU	--	19.21	19.44	22.11	2.030	2.499	7.861
										242	61	19.28	19.23	22.04	8.212	8.049	13.722
											62	19.34	19.43	22.17	7.768	8.097	13.526
64	19.29	19.27				22.06	8.114	8.030	13.663								
SU	--	19.40				19.45	21.05	2.346	2.268	6.907							
	242	61				19.30	19.41	20.98	8.180	8.005	12.694						
		62				19.35	19.30	20.95	8.252	7.960	12.709						
64		19.40				19.42	21.03	8.354	8.237	12.896							
SU	--	19.38				19.44	21.64	2.354	2.347	7.481							
	242	61				19.41	19.42	21.65	7.843	8.198	13.154						
		62				19.38	19.48	21.66	8.516	8.147	13.466						
64		19.43				19.40	21.65	8.312	8.607	13.592							
160MHz	0.18	0.00	-0.23	2.58	6025	15	SU	--	19.33	19.40	22.15	-0.715	-0.754	5.036			
							242	61	19.43	19.28	22.14	8.391	8.203	13.888			
								64	19.49	19.38	22.22	8.097	8.115	13.696			
			S64	19.31	19.38	22.13		8.354	8.151	13.844							
			SU	--	19.33	19.40	20.99	-0.817	-0.548	4.100							
				242	61	19.30	19.37	20.96	8.504	8.401	13.053						
					64	19.47	19.47	21.09	8.491	8.374	13.033						
			S64		19.42	19.47	21.07	8.196	8.184	12.790							
			SU	--	19.30	19.49	21.63	-0.551	-0.549	4.760							
				242	61	19.49	19.43	21.69	8.472	8.145	13.442						
					64	19.40	19.43	21.65	8.276	8.243	13.390						
			S64		19.31	19.48	21.63	8.454	8.322	13.519							

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.5.3. 802.11be SISO MODE IN THE UNII-7 BAND – STANDARD POWER

SP UNII-7 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)						
	SU	Partial RU							Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5					
20MHz	0.00	0.00	-0.50	-1.90	6535	117	SU	--	18.91	18.91	18.41	17.01	7.865	7.493	7.365	5.593					
								37	12.19	12.12	11.69	10.22	7.032	6.948	6.532	5.048					
								38	12.1	12.06	11.60	10.16	6.998	6.979	6.498	5.079					
													40	12.06	12.09	11.56	10.19	7.08	7.269	6.580	5.369
					6715	149	SU	--	18.86	18.81	18.36	16.91	7.672	7.468	7.172	5.568					
								37	12.11	12.15	11.61	10.25	6.509	6.721	6.009	4.821					
								38	12.07	12.12	11.57	10.22	6.712	6.664	6.212	4.764					
													40	12.09	12.13	11.59	10.23	6.769	6.592	6.269	4.692
					6855	181	SU	--	18.81	18.83	18.31	16.93	7.646	7.682	7.146	5.782					
								37	12.15	12.08	11.65	10.18	6.308	6.646	5.808	4.746					
								38	12.12	12.15	11.62	10.25	6.69	6.751	6.190	4.851					
													40	12.13	12.14	11.63	10.24	6.795	6.647	6.295	4.747
40MHz	0.00	0.00	-0.50	-1.90	6565	123	SU	--	18.94	18.99	18.44	17.09	4.110	4.291	3.610	2.391					
								61	18.92	18.98	18.42	17.08	6.893	7.353	6.393	5.453					
								62	18.92	18.99	18.42	17.09	7.181	7.460	6.681	5.560					
					6685	147	SU	--	18.84	18.97	18.34	17.07	4.512	4.557	4.012	2.657					
								61	18.92	18.92	18.42	17.02	7.255	7.338	6.755	5.438					
								62	18.84	18.93	18.34	17.03	7.366	7.370	6.866	5.470					
					6845	179	SU	--	18.97	18.96	18.47	17.06	4.519	4.498	4.019	2.598					
								61	18.91	18.93	18.41	17.03	7.261	7.446	6.761	5.546					
								62	18.95	18.97	18.45	17.07	7.429	7.384	6.929	5.484					
					80MHz (FCC)	0.00	0.00	-0.50	-1.90	6625	135	SU	--	18.81	18.84	18.31	16.94	1.482	1.364	0.982	-0.536
													61	18.85	18.75	18.35	16.85	7.440	7.260	6.940	5.360
													62	18.90	18.76	18.40	16.86	7.389	7.118	6.889	5.218
													64	18.92	18.94	18.42	17.04	7.471	7.485	6.971	5.585
6705	151	SU	--	18.87						18.99	18.37	17.09	1.557	1.597	1.057	-0.303					
			61	18.96						18.94	18.46	17.04	7.415	7.583	6.915	5.683					
			62	18.92	18.92	18.42	17.02	7.440	7.367	6.940	5.467										
80MHz	0.00	0.00	-0.50	-1.90	6785	167	SU	--	18.93	18.92	18.43	17.02	1.668	1.678	1.168	-0.222					
								61	18.91	18.85	18.41	16.95	7.393	7.573	6.893	5.673					
								62	18.94	18.79	18.44	16.89	7.478	7.366	6.978	5.466					
													64	18.97	18.88	18.47	16.98	7.488	7.654	6.988	5.754
					6665	143	SU	--	18.87	18.92	18.37	17.02	-1.162	-1.123	-1.482	-2.843					
								61	18.94	18.88	18.44	16.98	7.974	7.661	7.474	5.761					
64	18.80	18.72	18.30	16.82				7.304	7.062	6.804	5.162										
160MHz	0.18	0.00	-0.50	-1.90	6665	143	S64	--	18.81	18.83	18.31	16.93	7.655	7.500	7.155	5.600					

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)

9.5.4. 802.11be MIMO CDD MODE IN THE UNII-7 BAND – STANDARD POWER

SP 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 = 30dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = 17 dBm/MHz EIRP)
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5	
20MHz	0.00	0.00	-1.14	1.84	6535	117	SU	--	18.95	18.92	20.81	7.488	7.411	12.300
							52	37	12.14	12.14	14.01	7.193	6.976	11.936
								38	12.09	12.07	13.95	6.648	6.635	11.492
								40	12.09	12.1	13.97	6.944	6.948	11.796
					6715	149	SU	--	18.93	18.80	20.74	7.591	7.644	12.468
							52	37	12.06	12.16	13.98	6.832	6.86	11.696
								38	12.12	12.14	14.00	6.82	6.652	11.587
								40	12.14	12.12	14.00	6.765	6.884	11.675
					6855	181	SU	--	18.78	18.90	20.71	7.541	7.653	12.448
							52	37	12.14	12.14	14.01	6.903	7.063	11.834
								38	12.19	12.16	14.05	6.782	6.954	11.719
								40	12.17	12.17	14.04	6.722	6.976	11.701
40MHz	0.00	0.00	-1.14	1.84	6565	123	SU	--	18.91	18.88	20.77	4.788	4.552	9.522
							242	61	18.89	18.92	20.78	7.185	7.245	12.065
								62	18.87	18.82	20.72	7.284	7.515	12.251
								64	18.84	18.97	20.78	4.328	4.552	9.292
					6685	147	SU	--	18.84	18.97	20.78	4.328	4.552	9.292
							242	61	18.92	18.74	20.70	7.399	7.375	12.237
								62	18.90	18.99	20.82	7.487	7.572	12.380
								64	18.82	18.77	20.67	4.732	4.553	9.494
					6845	179	SU	--	18.82	18.77	20.67	4.732	4.553	9.494
							242	61	18.94	18.96	20.82	7.376	7.524	12.301
								62	18.87	18.99	20.80	7.620	7.713	12.517
								64	18.87	18.99	20.80	7.620	7.713	12.517
80MHz (FCC)	0.00	0.00	-1.14	1.84	6625	135	SU	--	18.95	18.88	20.79	1.396	1.691	6.396
							242	61	18.85	18.82	20.71	7.301	7.443	12.223
								62	18.83	18.80	20.69	7.405	7.438	12.272
								64	18.97	18.82	20.77	7.482	7.565	12.374
80MHz	0.00	0.00	-1.14	1.84	6705	151	SU	--	18.92	18.81	20.74	1.429	1.720	6.427
							242	61	18.97	18.87	20.79	7.387	7.776	12.436
								62	18.86	18.81	20.71	7.420	7.441	12.281
								64	18.88	18.80	20.71	7.510	7.296	12.255
					6785	167	SU	--	18.84	18.85	20.72	1.653	1.409	6.383
							242	61	18.87	18.81	20.71	7.272	7.185	12.079
								62	18.75	18.85	20.67	7.351	7.540	12.297
								64	18.97	18.80	20.76	7.568	7.656	12.463
					6665	143	SU	--	18.94	18.80	20.74	-0.962	-0.772	4.164
							242	61	18.96	18.81	20.76	7.524	7.838	12.534
								64	18.99	18.82	20.78	7.539	7.989	12.620
								S64	18.93	18.83	20.75	7.806	7.461	12.487
160MHz	0.18	0.00	-1.14	1.84	6665	143	SU	--	18.94	18.80	20.74	-0.962	-0.772	4.164

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.6. LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Follow KCB 987594 D02 v01r01, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only partial RU tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

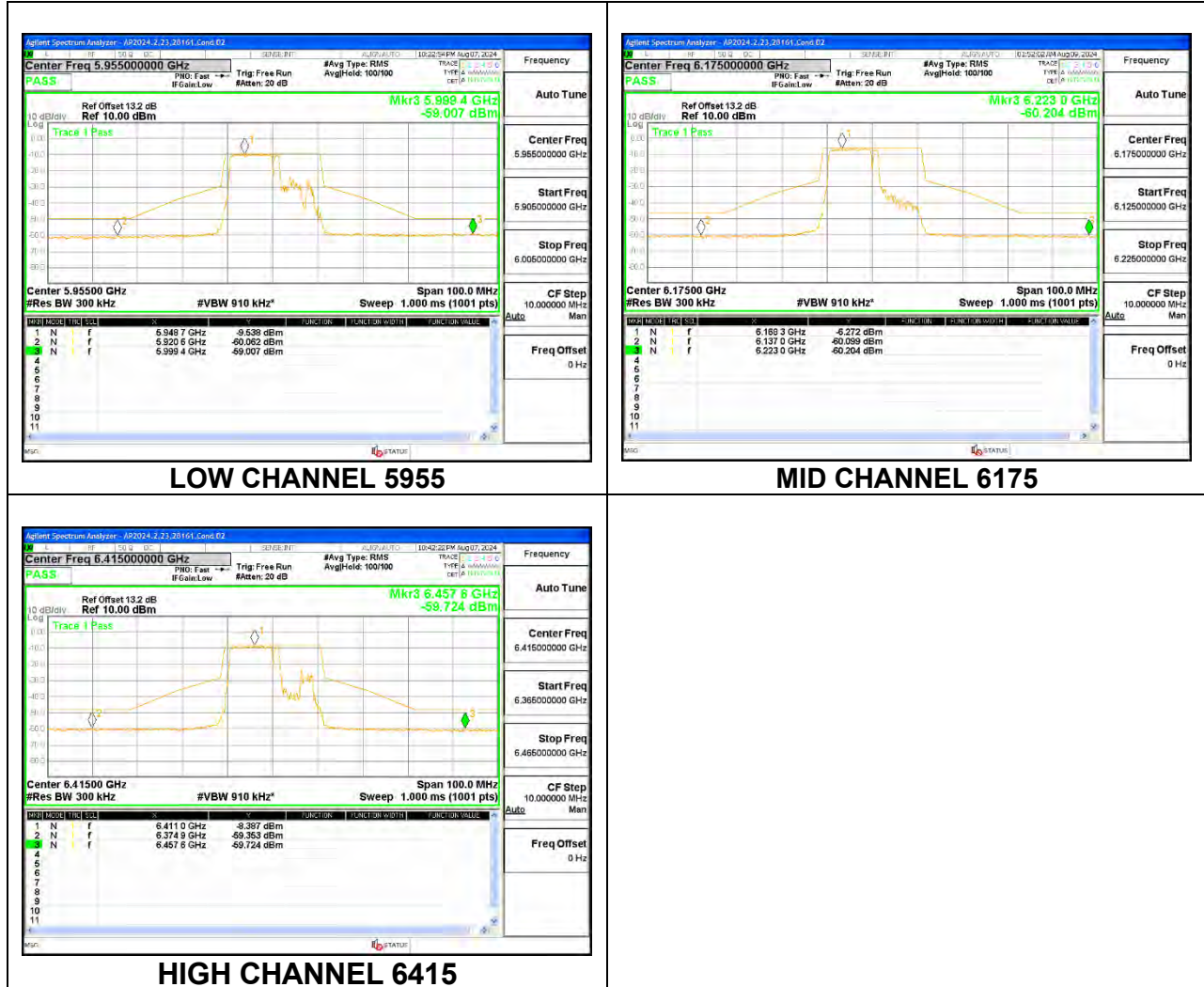
Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-8	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

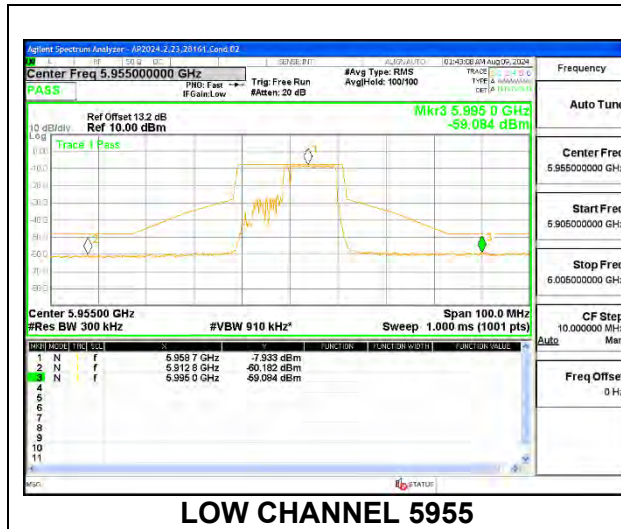
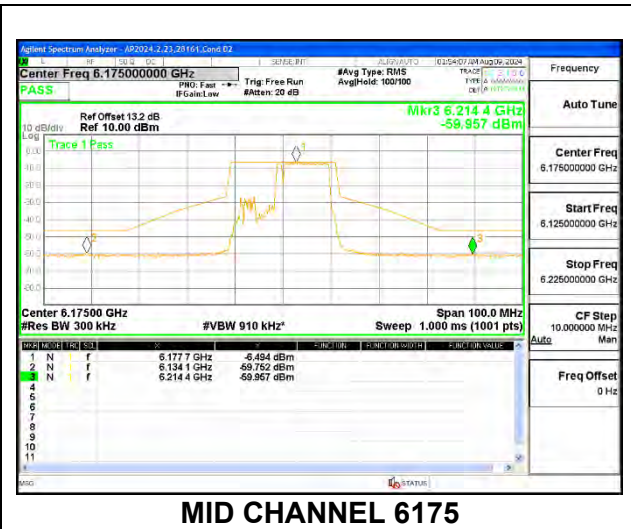
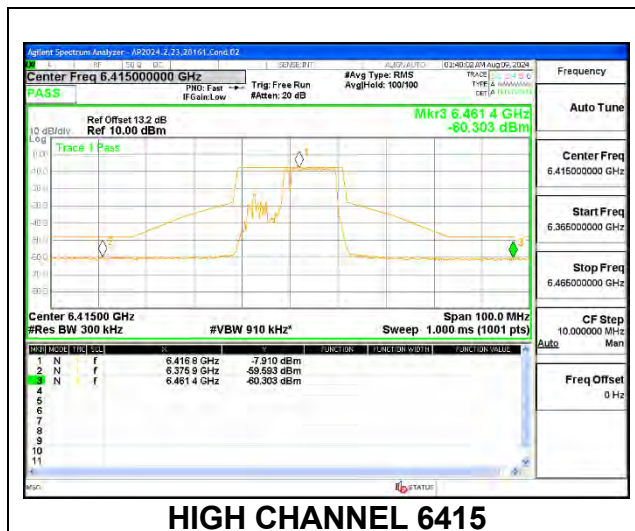
RESULTS

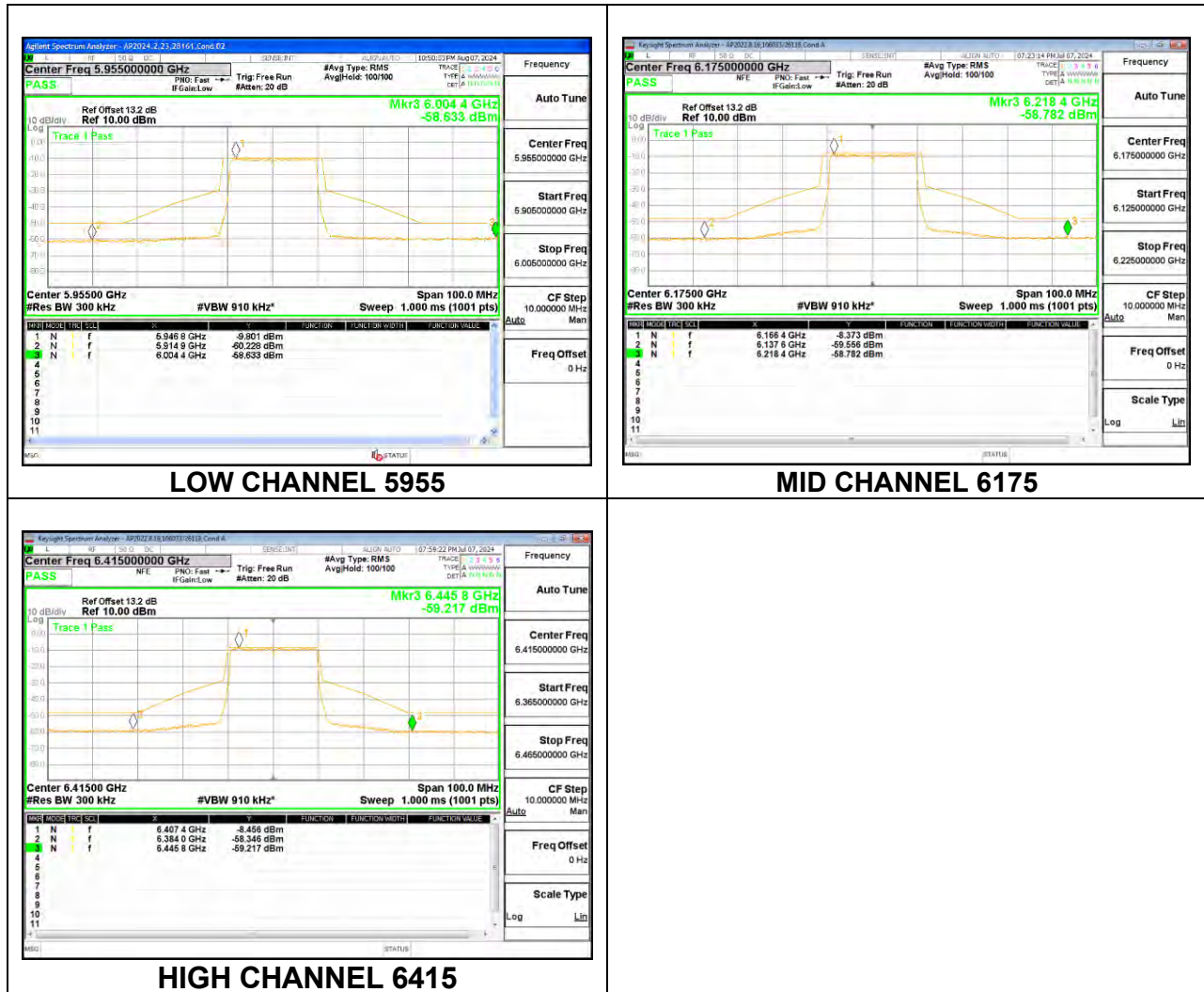
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify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

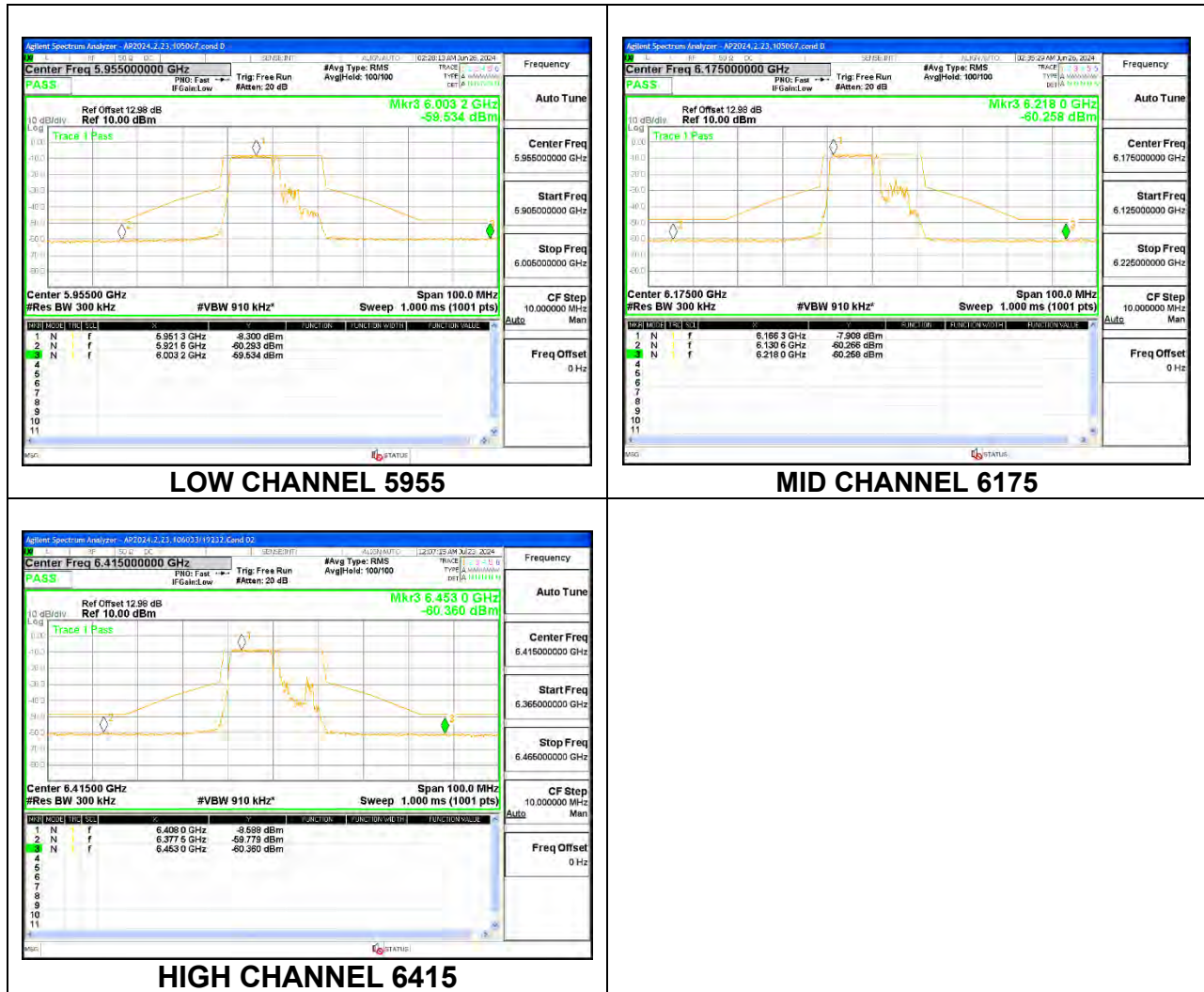
9.6.1. 802.11be EHT20 MODE IN THE UNII-5 BAND

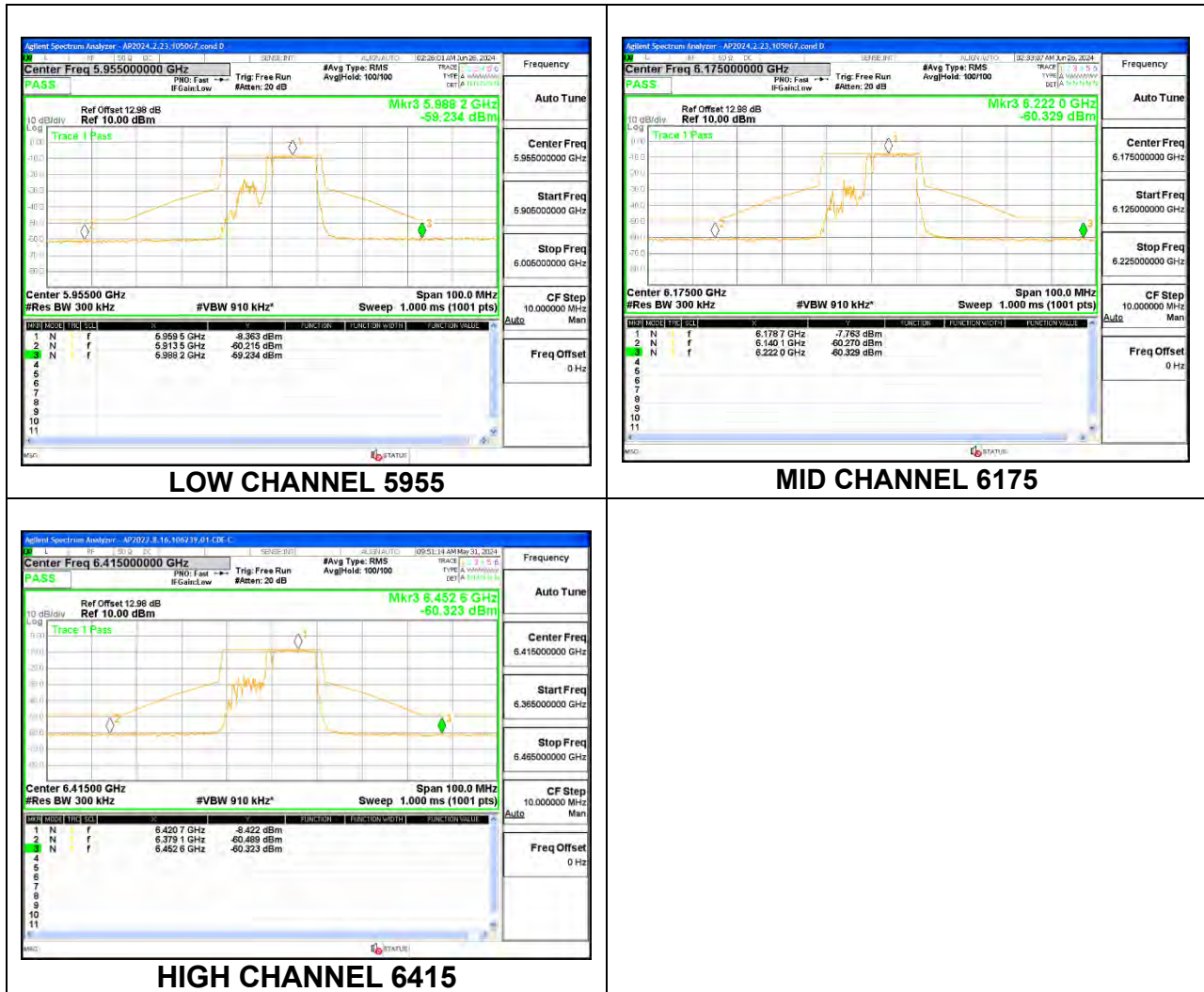
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82

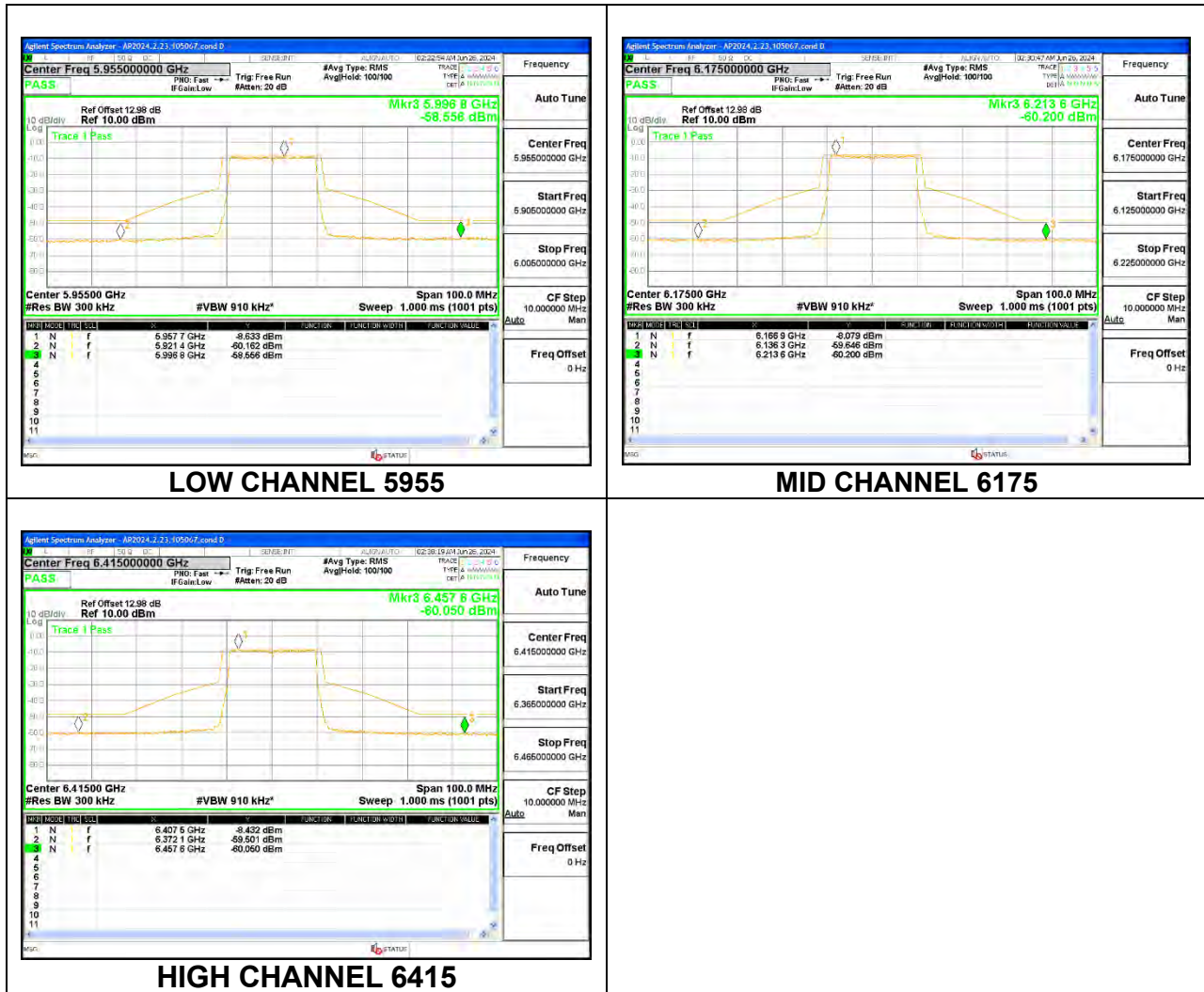


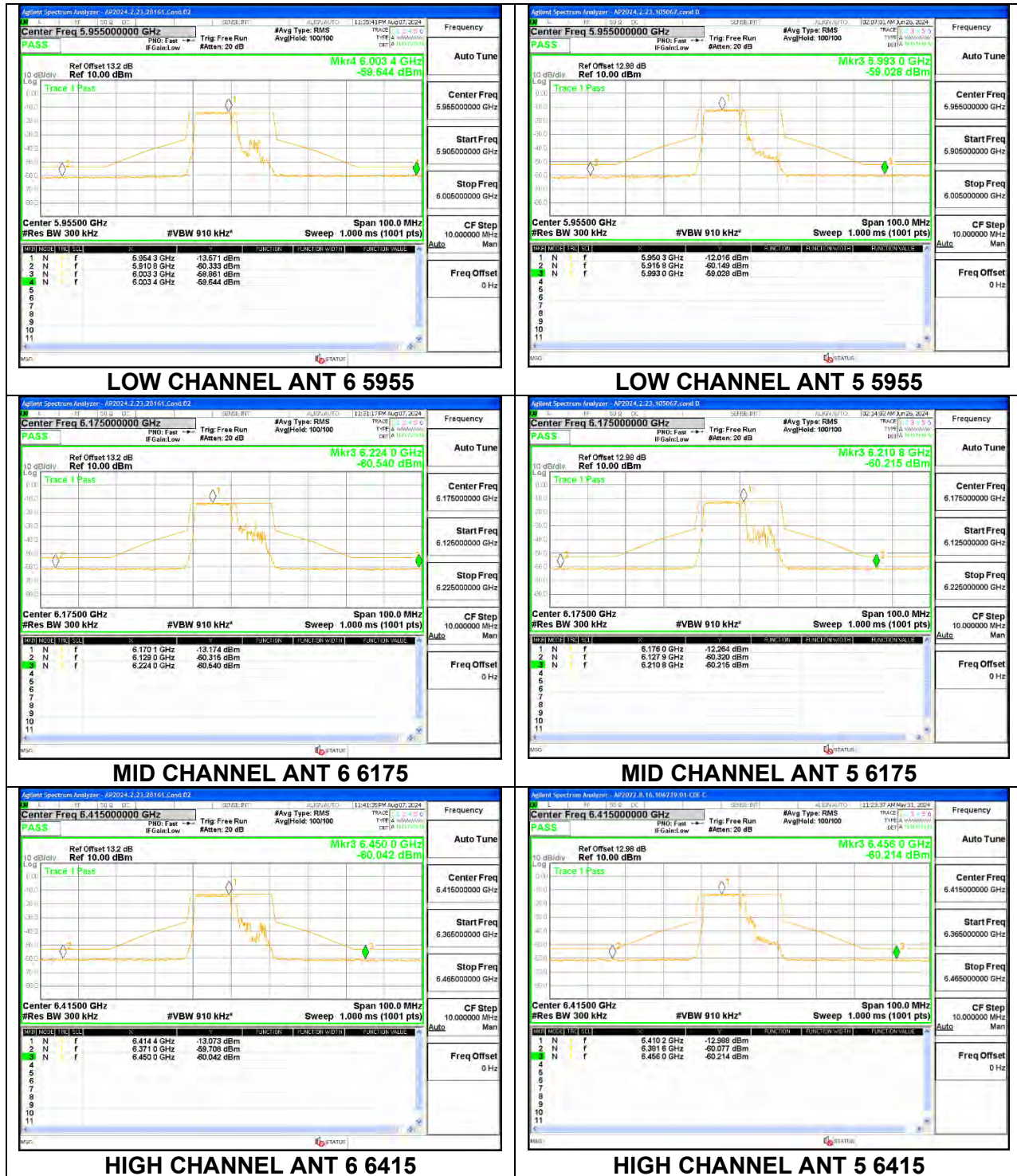
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 83

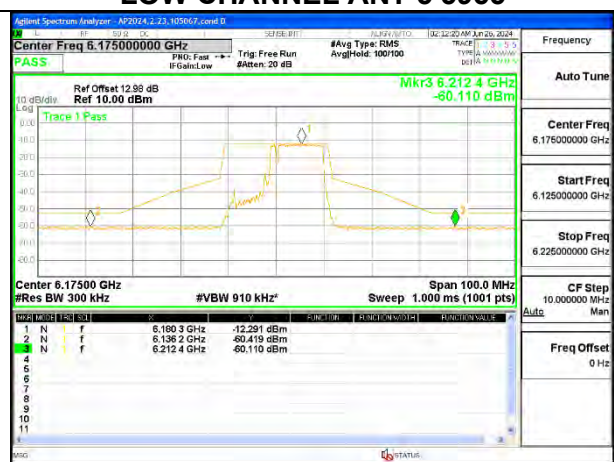
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE

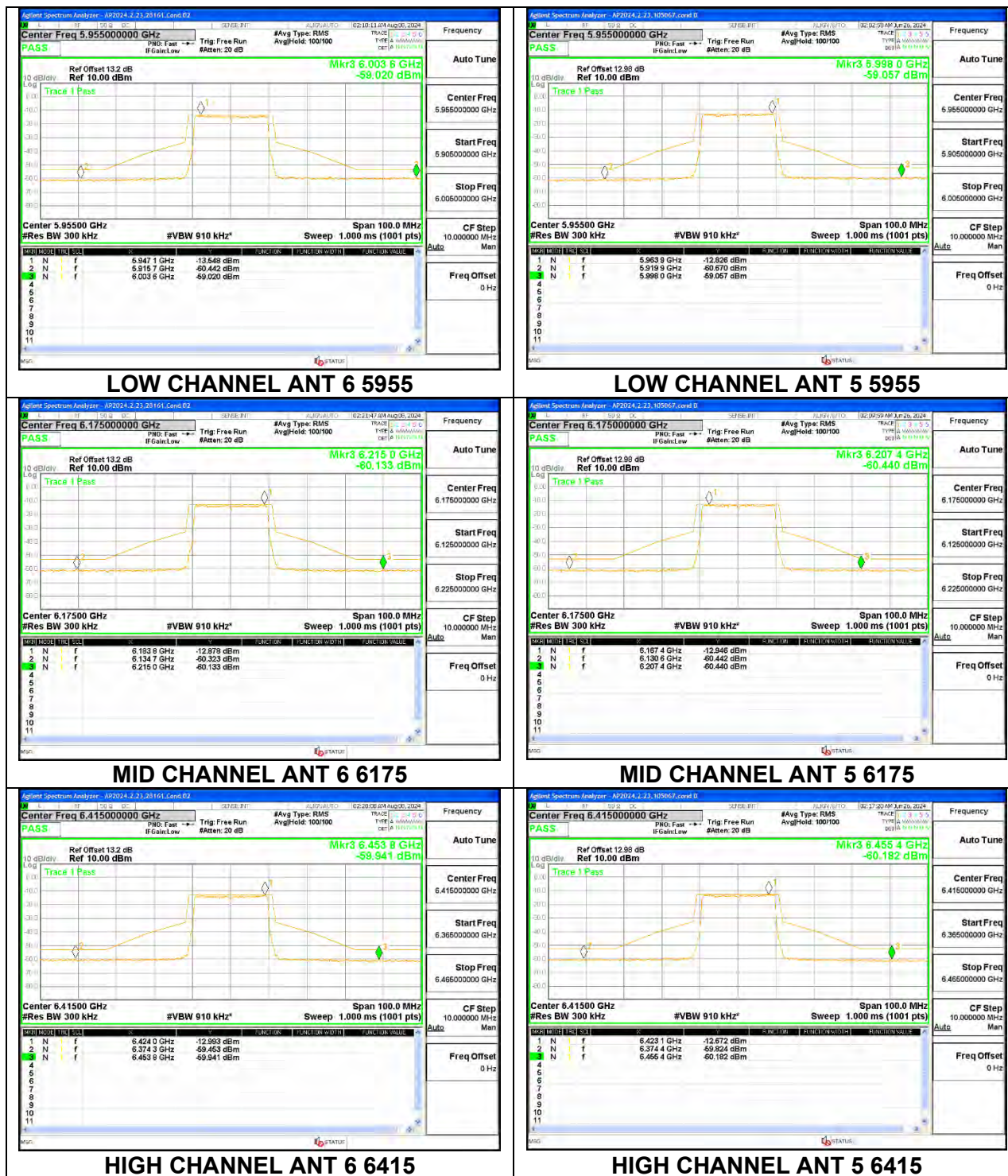
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82

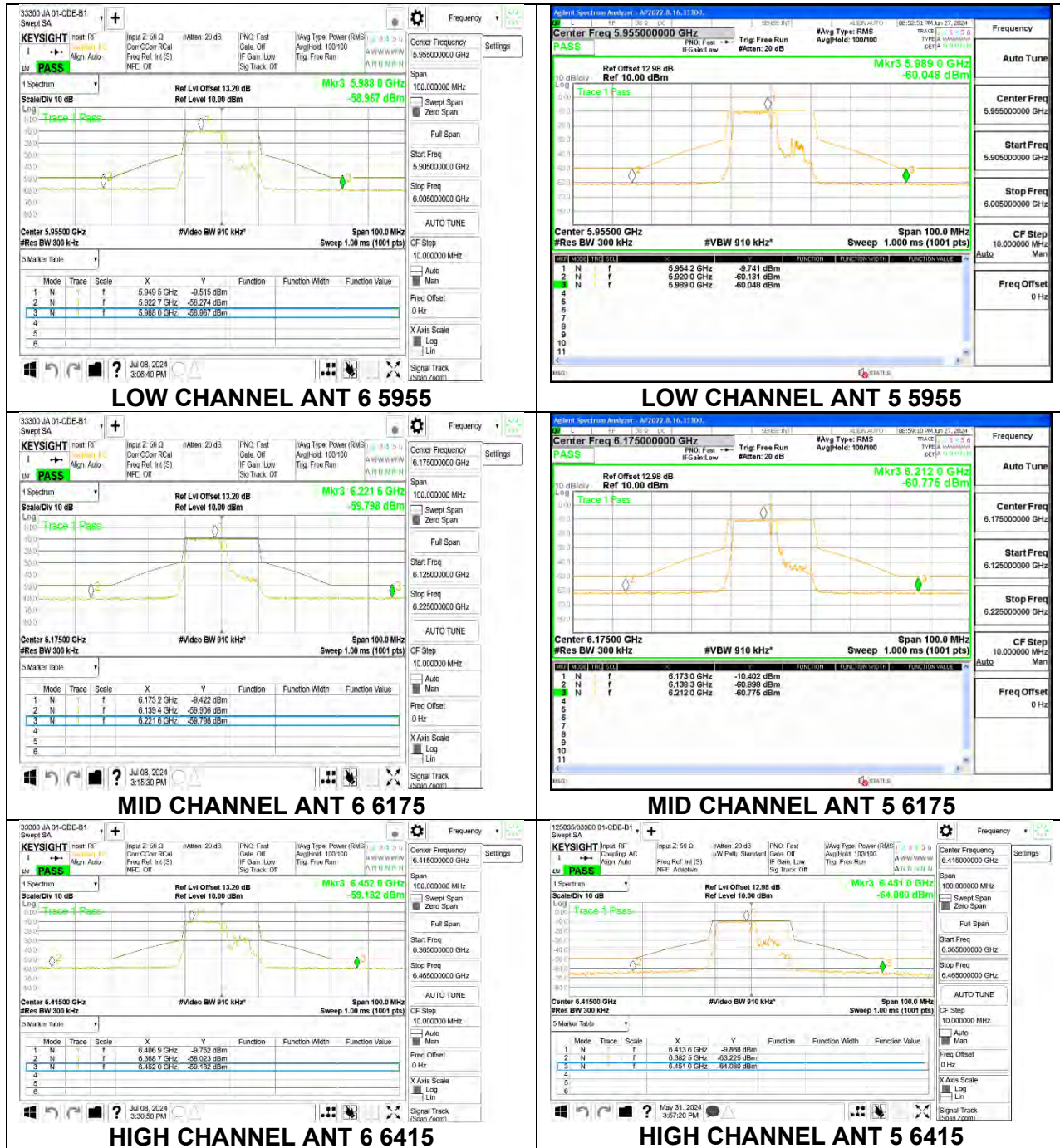
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 83

1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE

2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 82

2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 83**LOW CHANNEL ANT 6 5955****LOW CHANNEL ANT 5 5955****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – SU MODE

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26-Tones, RU Index 82

The figure displays four screenshots of a Keysight Spectrum Analyzer, each showing a frequency response plot for a different antenna and channel configuration. The plots are arranged in a 2x2 grid. Each plot includes a table of measured data points.

Top Left: LOW CHANNEL ANT 6 5955

Center Freq: 5.95500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Sweep: 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	5.9573 GHz	-9.607 dBm			
2	N	f	5.914 GHz	-58.169 dBm			
3	N	f	5.9818 GHz	-59.396 dBm			

Top Right: LOW CHANNEL ANT 5 5955

Center Freq: 5.95500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Sweep: 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	5.9573 GHz	-10.071 dBm			
2	N	f	5.9203 GHz	-60.961 dBm			
3	N	f	5.9914 GHz	-59.949 dBm			

Bottom Left: MID CHANNEL ANT 6 6175

Center Freq: 6.17500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Sweep: 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	6.1778 GHz	-9.617 dBm			
2	N	f	6.1278 GHz	-59.880 dBm			
3	N	f	6.2158 GHz	-60.246 dBm			

Bottom Right: MID CHANNEL ANT 5 6175

Center Freq: 6.17500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Sweep: 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	6.1803 GHz	-10.556 dBm			
2	N	f	6.1414 GHz	-60.948 dBm			
3	N	f	6.2203 GHz	-61.452 dBm			

Bottom Left: HIGH CHANNEL ANT 6 6415

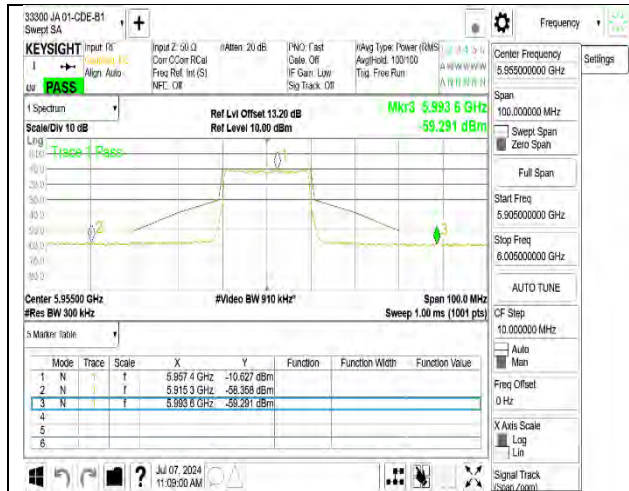
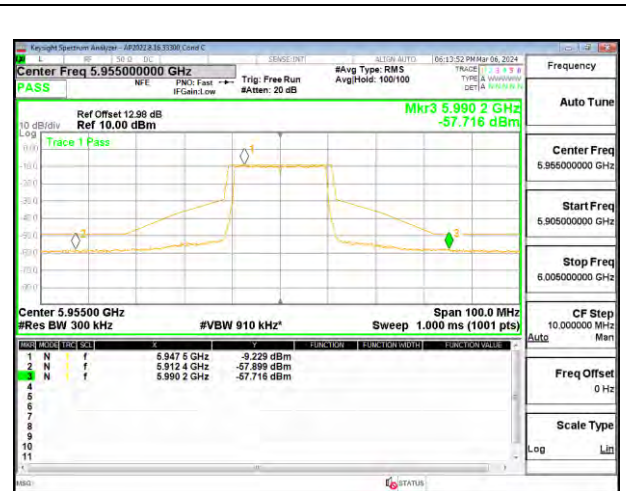
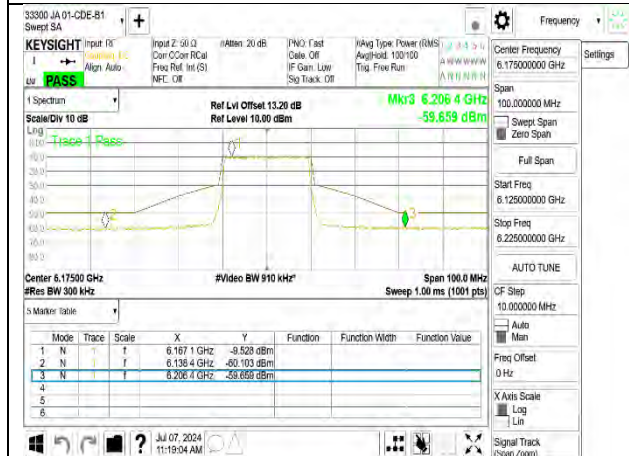
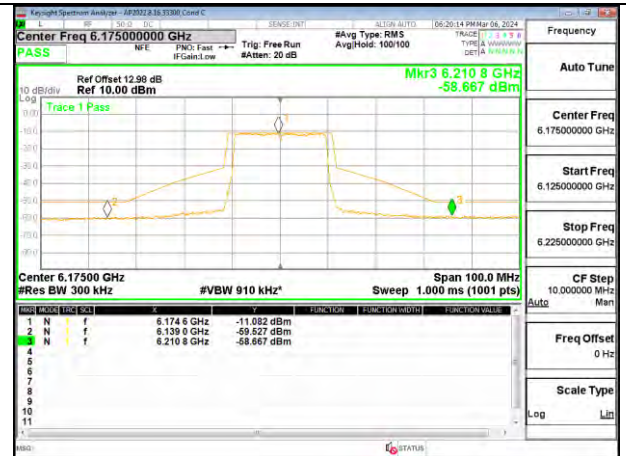
Center Freq: 6.41500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Sweep: 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	6.4170 GHz	-9.500 dBm			
2	N	f	6.3719 GHz	-58.077 dBm			
3	N	f	6.4472 GHz	-58.714 dBm			

Bottom Right: HIGH CHANNEL ANT 5 6415

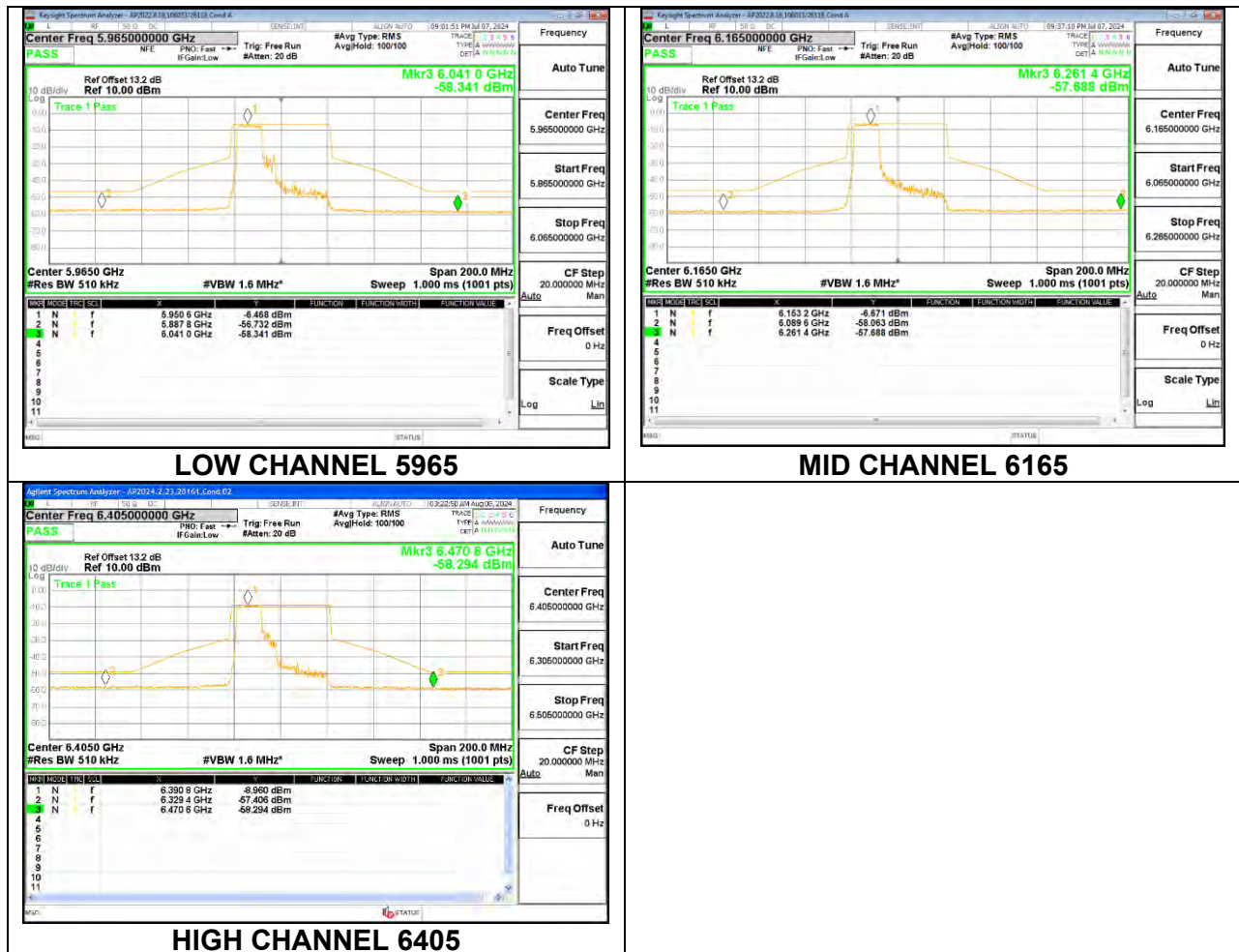
Center Freq: 6.41500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Sweep: 1.00 ms (1001 pts)

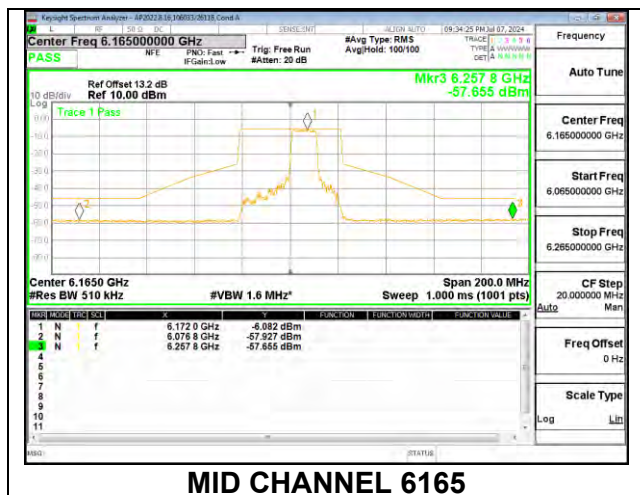
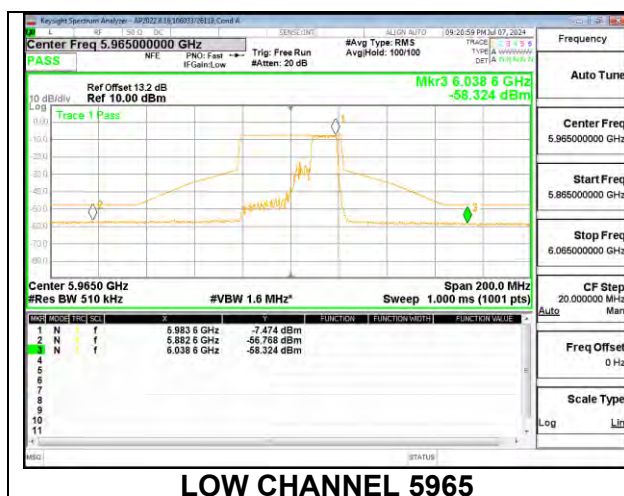
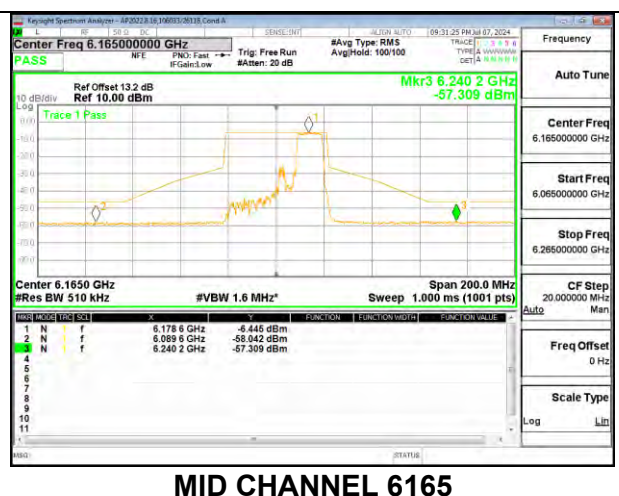
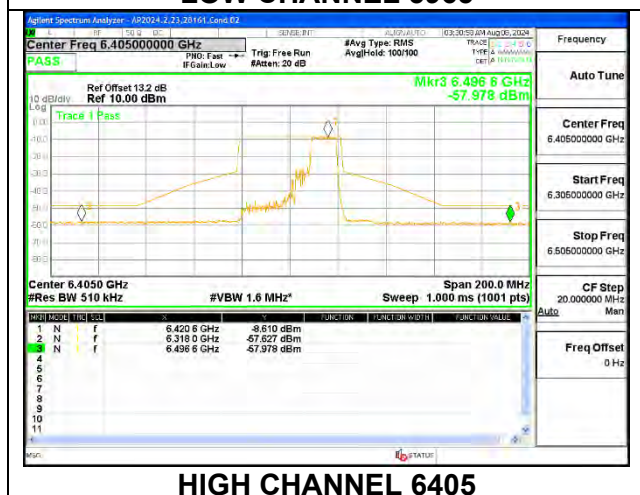
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	f	6.4203 GHz	-9.950 dBm			
2	N	f	6.3767 GHz	-58.319 dBm			
3	N	f	6.4502 GHz	-59.500 dBm			

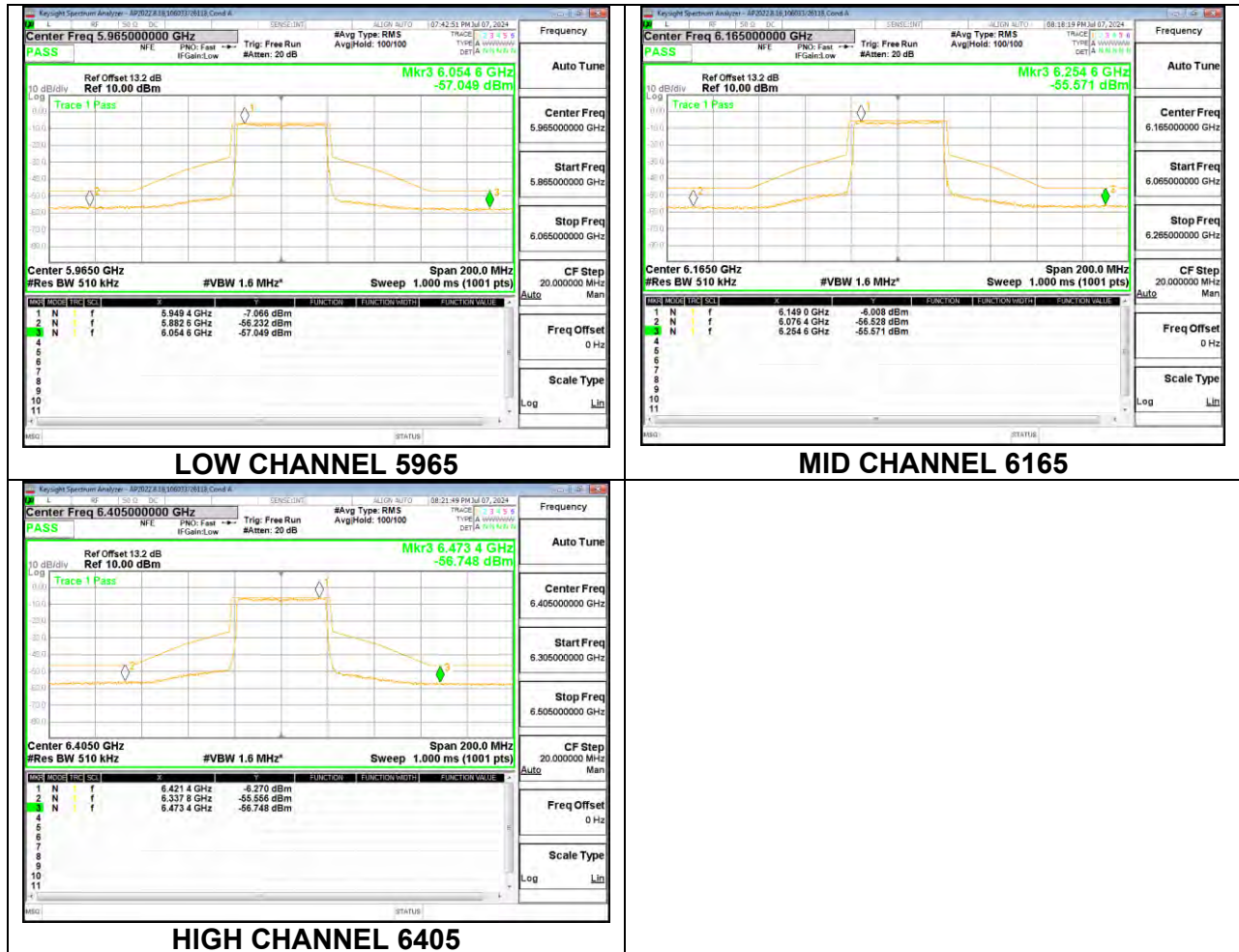
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode**LOW CHANNEL ANT 6 5955****LOW CHANNEL ANT 5 5955****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

9.6.2. 802.11be EHT40 MODE IN THE UNII-5 BAND

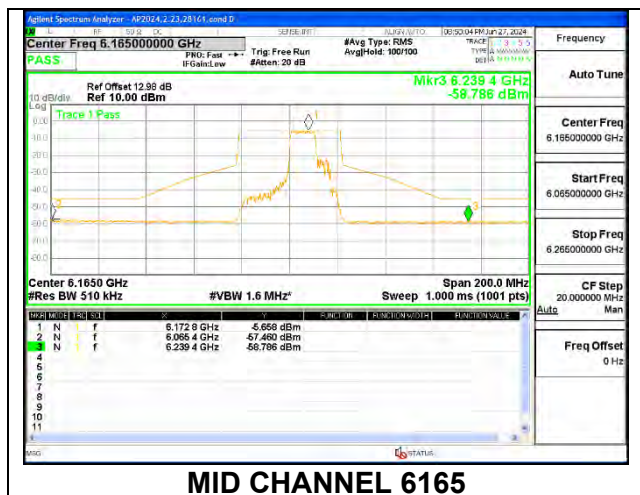
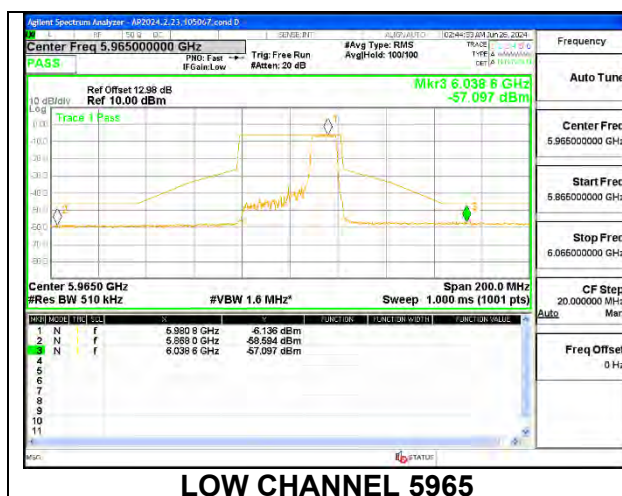
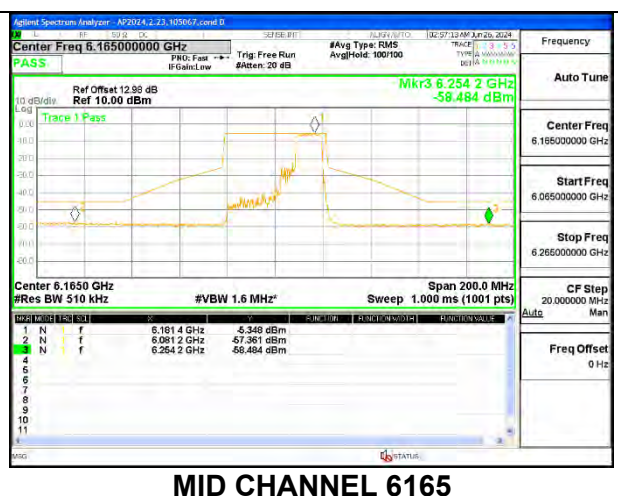
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82



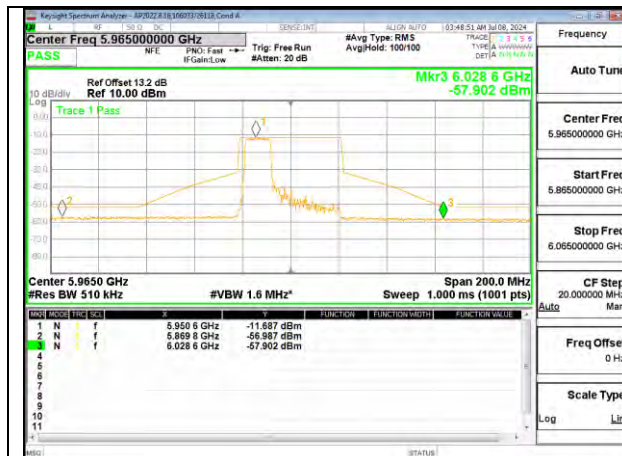
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 84**1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 85**

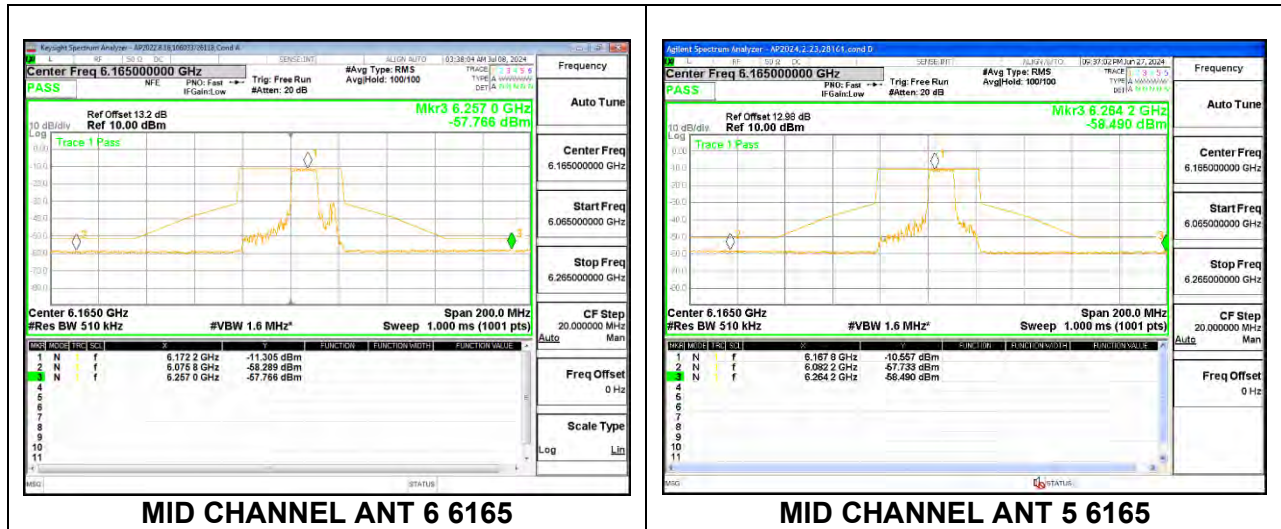
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE

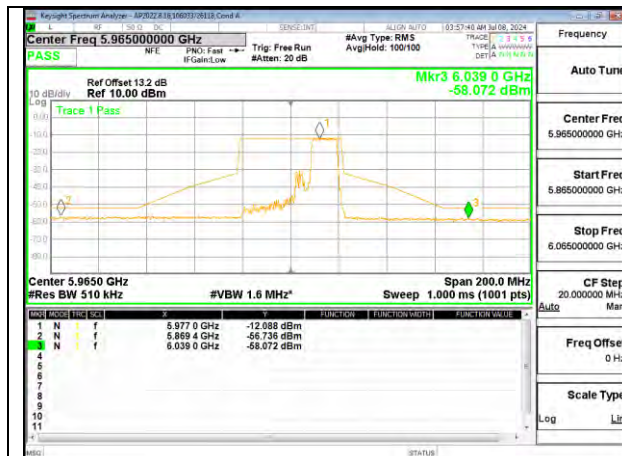
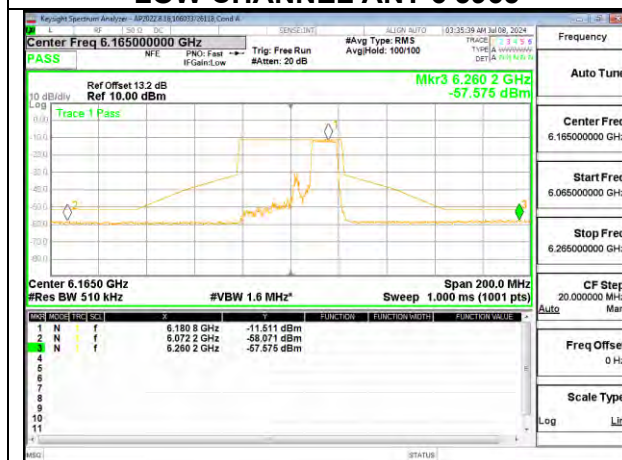
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

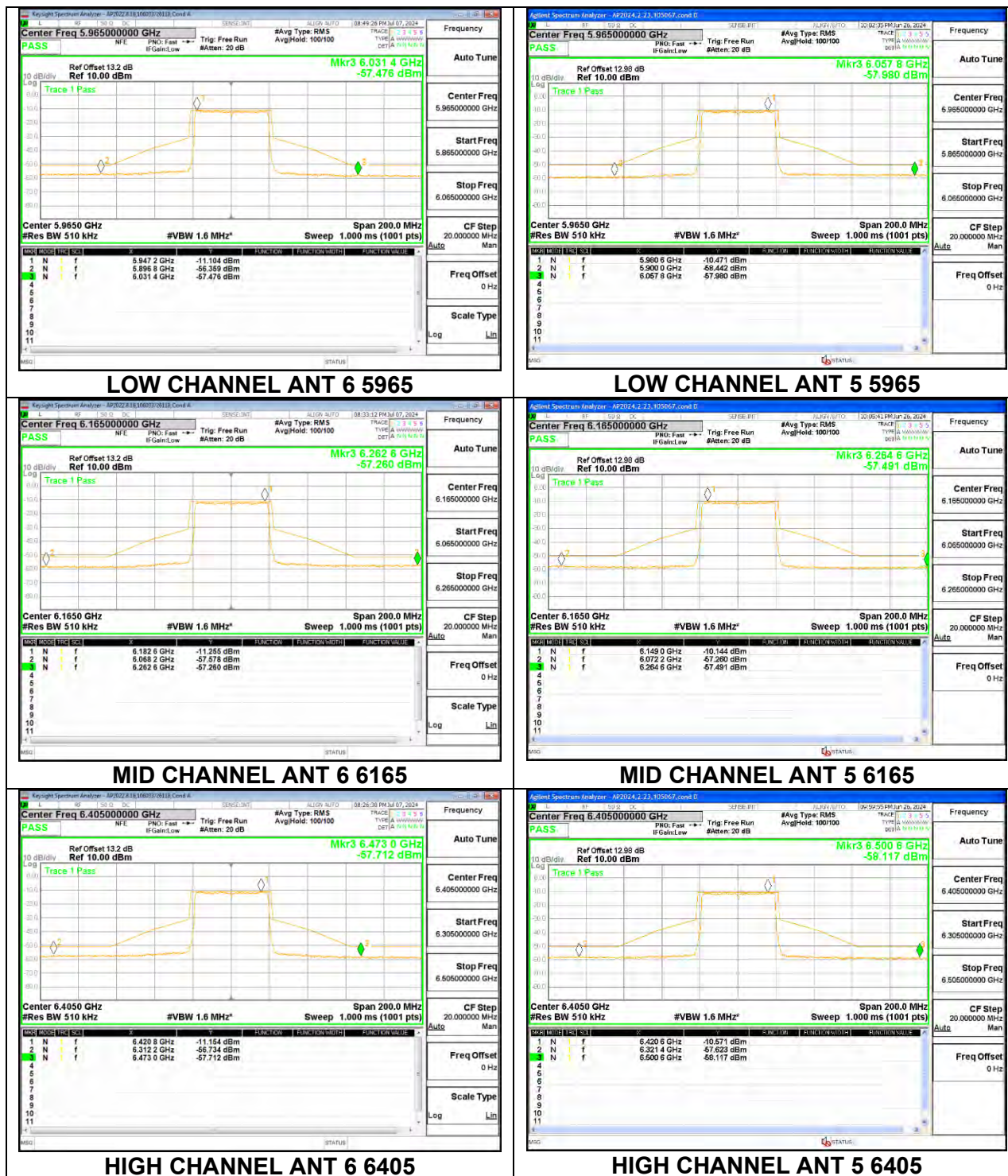
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 84**1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 85**

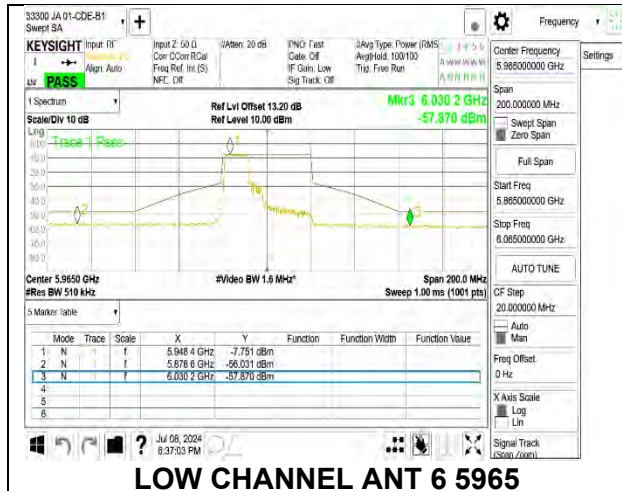
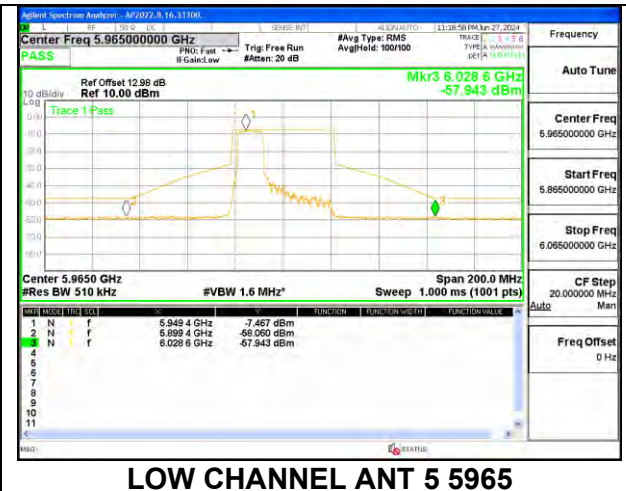
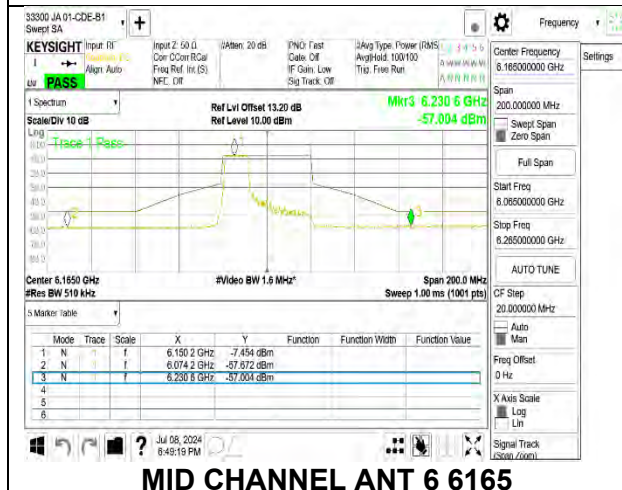
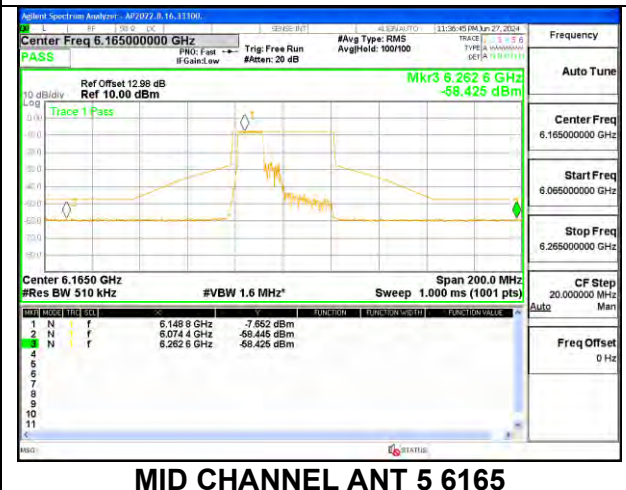
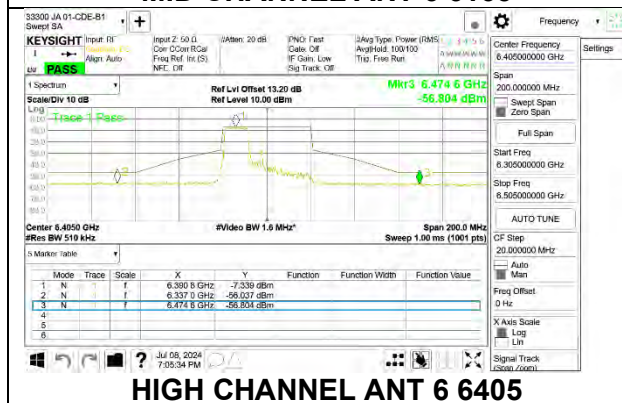
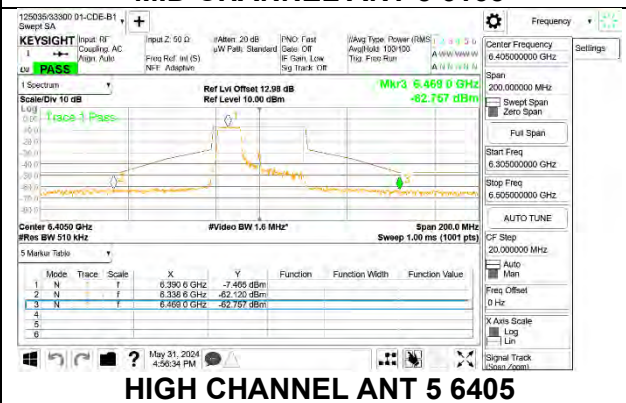
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

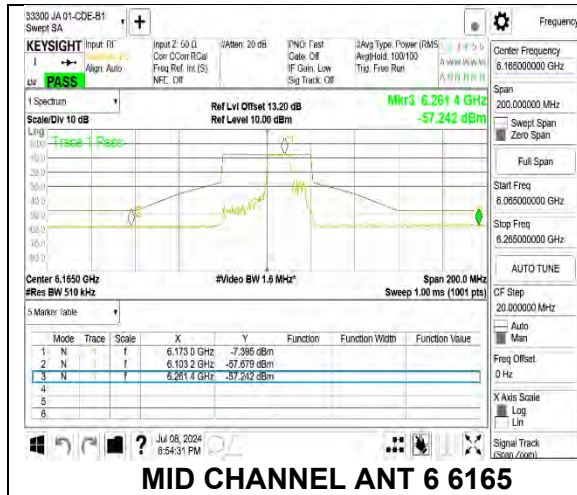
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 82**LOW CHANNEL ANT 6 5965****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 6 6165****MID CHANNEL ANT 5 6165****HIGH CHANNEL ANT 6 6405****HIGH CHANNEL ANT 5 6405**

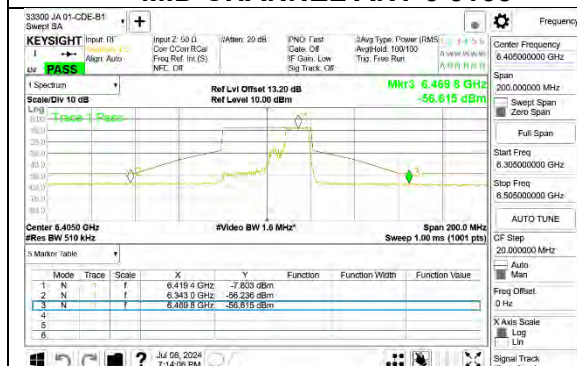
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 84

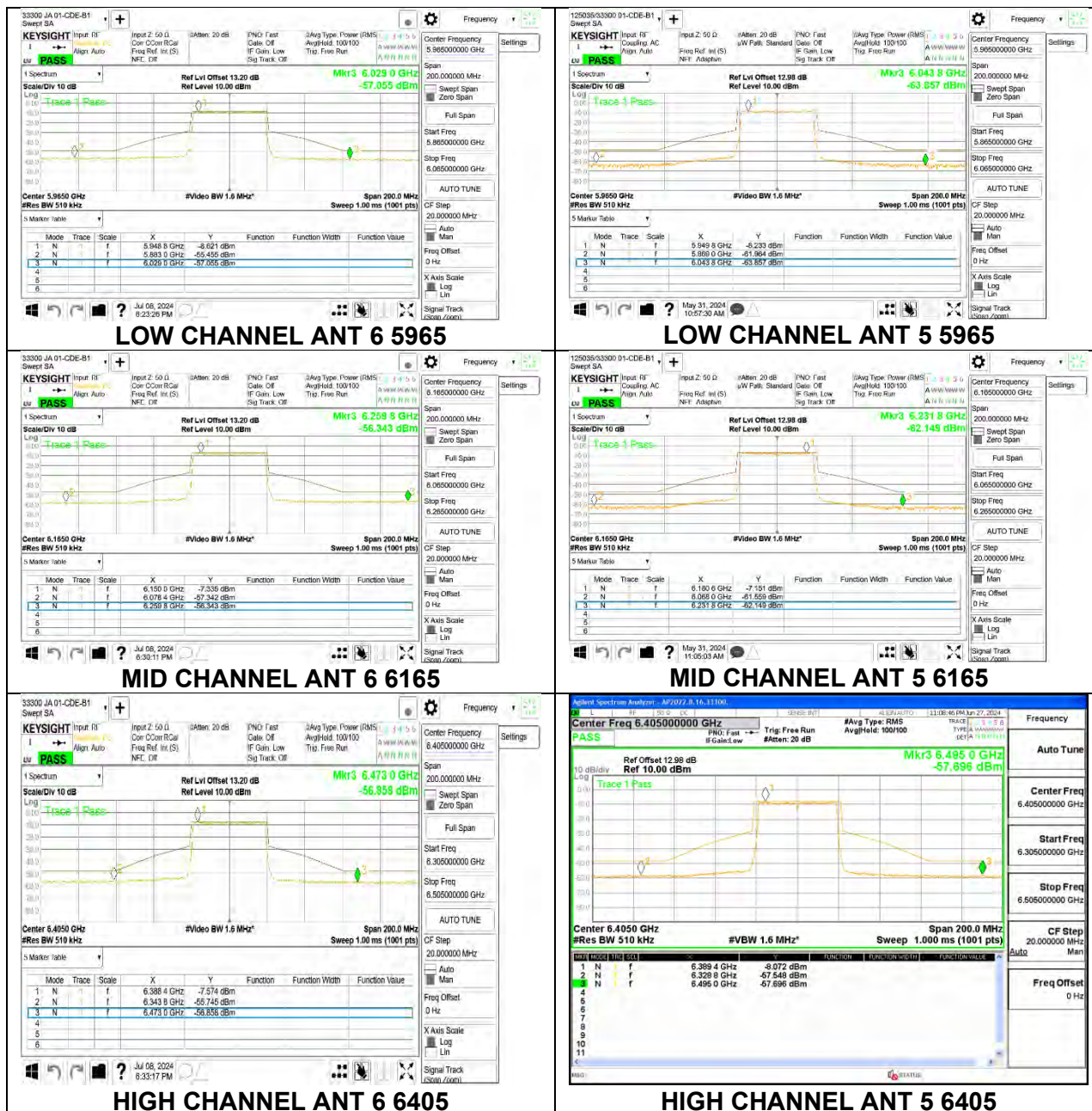
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 85**LOW CHANNEL ANT 6 5965****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 6 6165****MID CHANNEL ANT 5 6165****HIGH CHANNEL ANT 6 6405****HIGH CHANNEL ANT 5 6405**

2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – SU MODE

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26-Tones, RU Index 82

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26 -Tones, RU Index 84

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26 -Tones, RU Index 85**LOW CHANNEL ANT 6 5965****LOW CHANNEL ANT 5 5965****MID CHANNEL ANT 6 6165****MID CHANNEL ANT 5 6165****HIGH CHANNEL ANT 6 6405****HIGH CHANNEL ANT 5 6405**

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode

9.6.3. 802.11be EHT80 MODE IN THE UNII-5 BAND

1TX Antenna 6 MODE (FCC+IC) MOBILE – 52-Tones, RU Index 37

