

TEST REPORT

Report Number: 14982479-E10V4.1

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

Model : A3084 (Parent Model)
A3295, A3296, A3297 (Variant Models)

Brand : APPLE

FCC ID : BCG-E8684A (Parent Model)
BCG-E8685A, BCG-E8686A, BCG-E8687A (Variant Models)

EUT Description : SMARTPHONE

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

Date Of Issue:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024/08/01	Initial Review	Tony Li
V2	2024/08/07	Addressed TCB Questions on Sections 6 and 9	Tony Li
V3	2024/08/15	Updated section 2, 9.2 and 9.3 to identify the 320MHz limit for emissions bandwidths	Tony Li
V4.1	2024/08/23	Updated Section 2, 9.2, 9.3 statements regarding limit for emissions bandwidths Updated Section 10 to add set up diagram	Tony Li

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3084 (Parent Model) A3295, A3296, A3297 (Variant Models)
Brand	APPLE
FCC ID	BCG-E8684A (Parent Model) BCG-E8685A, BCG-E8686A, BCG-E8687A (Variant Models)
EUT Description	SMARTPHONE
Serial Number	MGXPFL2G61 LX61C6R73G, DWYRQGJ4X5
Sample Receipt Date	2024/02/26
Date Tested	2024/03/22 to 2024/08/01
Applicable Standards	CFR 47 Part 15 Subpart E
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. 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.	
Approved & Released By:	Prepared & Reviewed By:
	
Francisco de Anda Staff Engineer UL Verification Services, Inc.	Tony Li Lead Test Engineer UL Verification Services, Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

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

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

Requirement Description	Requirement Clause Number (FCC)	Result	Comment
Duty Cycle	See Comment	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 (Ave) 1.300 dB (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 db
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 db
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 db
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 db
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 db
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 db
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 db

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), WPT and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

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

6.1.1. EUT DEVICE CLASS

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	8.63	7.29
5965-6405	802.11be EHT40	11.63	14.55
5985-6385	802.11be EHT80	14.62	28.97
6025-6345	802.11be EHT160	16.84	48.31
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	5.63	3.66
5955-6415	802.11be EHT20 SDM	8.58	7.21
5965-6405	802.11be EHT40 CDD	8.61	7.26
5965-6405	802.11be EHT40 SDM	11.65	14.62
5985-6385	802.11be EHT80 CDD	11.62	14.52
5985-6385	802.11be EHT80 SDM	14.64	29.11
6025-6345	802.11be EHT160 CDD	13.88	24.43
6025-6345	802.11be EHT160 SDM	16.86	48.53

UNII-6 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-6 Band, 1TX			
6435 - 6515	802.11be EHT20	8.54	7.14
6445 - 6525	802.11be EHT40	11.51	14.16
6465	802.11be EHT80	14.48	28.05
6505	802.11be EHT160, Straddle Channel	16.68	46.56
UNII-6 band, 2TX			
6435 - 6515	802.11be EHT20 CDD	5.71	3.72
6435 - 6515	802.11be EHT20 SDM	8.67	7.36
6445 - 6525	802.11be EHT40 CDD	8.92	7.80
6445 - 6525	802.11be EHT40 SDM	11.92	15.56
6465	802.11be EHT80 CDD	11.69	14.76
6465	802.11be EHT80 SDM	14.64	29.11
6505	802.11be EHT160 CDD, Straddle	14.18	26.18
6505	802.11be EHT160 SDM Straddle	17.17	52.12

UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535 - 6875	802.11be EHT20	8.67	7.36
6565 - 6845	802.11be EHT40	11.53	14.22
6545 - 6865	802.11be EHT80	14.65	29.17
6665 - 6825	802.11be EHT160	16.92	49.20
UNII-7 Band 2TX			
6535-6875	802.11be EHT20 CDD	5.92	3.91
6535-6875	802.11be EHT20 SDM	8.95	7.85
6565-6845	802.11be EHT40 CDD	8.68	7.38
6565-6845	802.11be EHT40 SDM	11.68	14.72
6545-6865	802.11be EHT80 CDD	11.96	15.70
6545-6865	802.11be EHT80 SDM	14.94	31.19
6665-6825	802.11be EHT160 CDD	14.23	26.49
6665-6825	802.11be EHT160 SDM	17.20	52.48

UNII-8 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-8 Band 1TX			
6895-7115	802.11a Mode	-4.34	0.37
6895-7115	802.11be EHT20	8.66	7.35
6885-7085	802.11be EHT40	11.66	14.66
6945-7025	802.11be EHT80	14.63	29.04
6985	802.11be EHT160	16.92	49.20
UNII-8 Band 2TX			
6895-7115	802.11be EHT20 CDD	5.71	3.72
6895-7115	802.11be EHT20 SDM	8.52	7.11
6885-7085	802.11be EHT40 CDD	8.94	7.83
6885-7085	802.11be EHT40 SDM	11.97	15.74
6945-7025	802.11be EHT80 CDD	11.75	14.96
6945-7025	802.11be EHT80 SDM	14.49	28.12
6985	802.11be EHT160 CDD	13.97	24.95
6985	802.11be EHT160 SDM	16.75	47.32

6.2.1. 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	21.25	133.35
5965-6405	802.11be EHT40	21.28	134.28
5985-6385	802.11be EHT80	21.28	134.28
6025-6345	802.11be EHT160	21.28	134.28
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	23.25	211.35
5955-6415	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
5965-6405	802.11be EHT40 CDD	23.28	212.81
5955-6405	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
5985-6385	802.11be EHT80 CDD	23.27	212.32
5985-6385	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6025-6345	802.11be EHT160 CDD	23.28	212.81
6025-6345	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

UNII-7 BAND (FCC)

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535-6855	802.11be EHT20	20.27	106.41
6565-6845	802.11be EHT40	20.28	106.66
6625-6785	802.11be EHT80	20.26	106.17
6665	802.11be EHT160	20.26	106.17
UNII-7 Band 2TX			
6535-6855	802.11be EHT20 CDD	23.18	207.97
6535-6855	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
6565-6845	802.11be EHT40 CDD	23.17	207.49
6565-6845	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
6625-6785	802.11be EHT80 CDD	23.18	207.97
6625-6785	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6665	802.11be EHT160 CDD	23.17	207.49
6665	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

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

Type: IFA

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	-0.20	-0.20	-0.20	2.81
	Sub-band 2 (6115 - 6255)	-1.20	0.40	-0.33	2.65
	Sub-band 3 (6275 - 6415)	-2.00	0.80	-0.38	2.52
6425 - 6525 UNII-6	N/A	-1.70	0.80	-0.27	2.65
UNII-6/7 (Straddle Channel)	N/A	0.10	0.80	0.46	3.47
6525 - 6875 UNII-7	N/A	0.10	0.30	0.20	3.21
UNII-7/8 (Straddle Channel)	N/A	0.70	0.30	0.50	3.51
6875 - 7125 UNII-8	N/A	0.70	-1.40	-0.22	2.72

Type: SMA

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)
5925-6105	-3.00	-3.40
6105-6265	-3.00	-3.40
6265-6425	-3.00	-3.40
6425-6525	-3.00	-3.40
6525-6875	-3.20	-3.50
6875-7125	-3.20	-3.50

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

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

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was 27_20_193_15.

6.5. WORST-CASE CONFIGURATION AND MODE

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

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

The 802.11a mode 20MHz covered by the 802.11be mode since both have the same power. Only UNII-8 CH233 was tested because it has a higher tune up than 802.11be mode.

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 modes with power setting equal or higher than SISO modes as worst-case scenario.

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

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

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

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

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

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

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

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

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

6.5.1. LP

BW (MHz)	Tone (T)	RU Index	RU Index (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								
	52	37 ~ 40	37 ~ 40								
	52 + 26	70 ~ 81	70, 71, 72								
	106	53 ~ 54	53 ~ 54				X		X		
	106 + 26	82 ~ 89	82, 83		X		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		X		X		X		
	484	65	65								
80	SU	--	--	X		X		X		X	
	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		X		X		X		X
	242	61 ~ 64	61 ~ 64								
160	484	65 ~ 66	65 ~ 66								
	484 + 242	90 ~ 93	90, 91, 92, 93								
	996	67	67								
	SU	--	--	X		X		X		X	
	26	0 ~ S36	0 ~ S36								
	52	37 ~ S52	37 ~ S52		X		X		X		
	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				X				X
	242	61 ~ S64	61 ~ S64								
	484	65 ~ S66	65 ~ S66								
	484 + 242	90 ~ S93	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93								
	996	67 ~ S67	67 ~ S67								
160	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	

6.5.1. SP

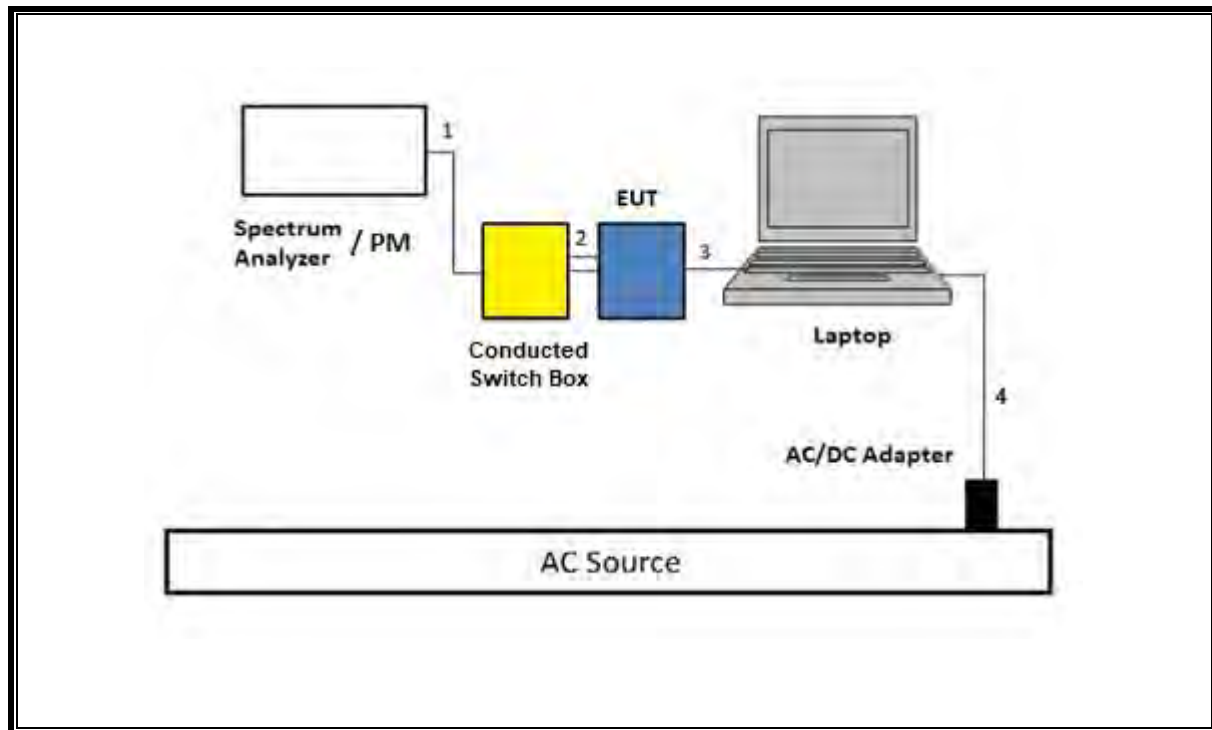
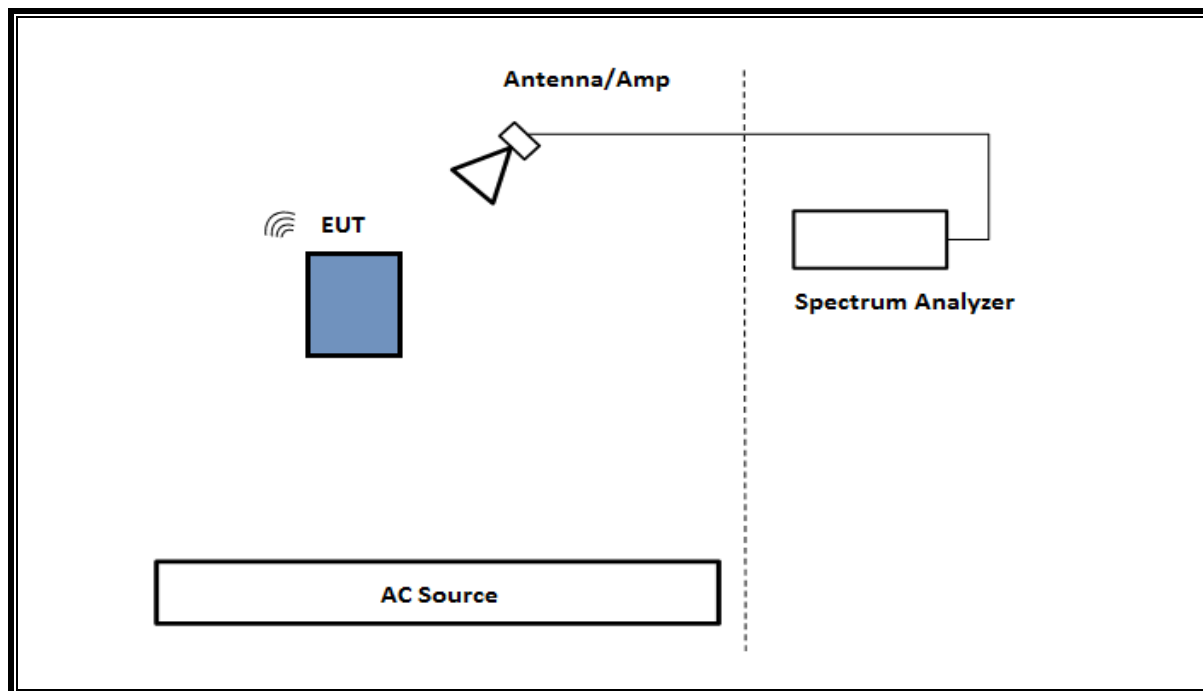
BW (MHz)	Tone (T)	RU Index	RU Index (Chipset Support only)	Worst Case Tone (UNII-5)		Worst Case Tone (UNII-6)		Worst Case Tone (UNII-7)		Worst Case Tone (UNII-8)	
				Highest Power	Highest PSD	Highest Power	Highest PSD	Highest Power	Highest PSD	Highest Power	Highest PSD
20	26	0 ~ 8	0 ~ 8								
	52	37 ~ 40	37 ~ 40								
	52 + 26	70 ~ 81	70, 71, 72								
	106	53 ~ 54	53 ~ 54		X				X		
	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								
80	SU	--	--	X				X			
	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		
160	484	65 ~ 66	65 ~ 66								
	484 + 242	90 ~ 93	90, 91, 92, 93								
	996	67	67								
	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	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								
160	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			

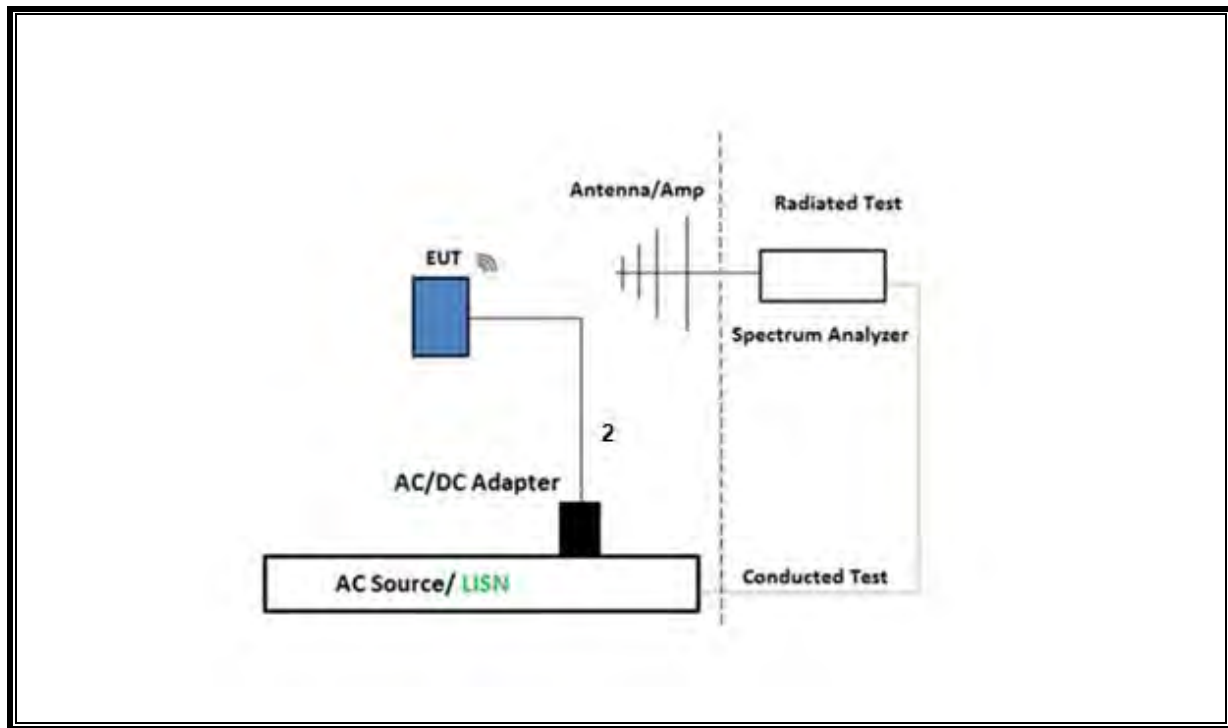
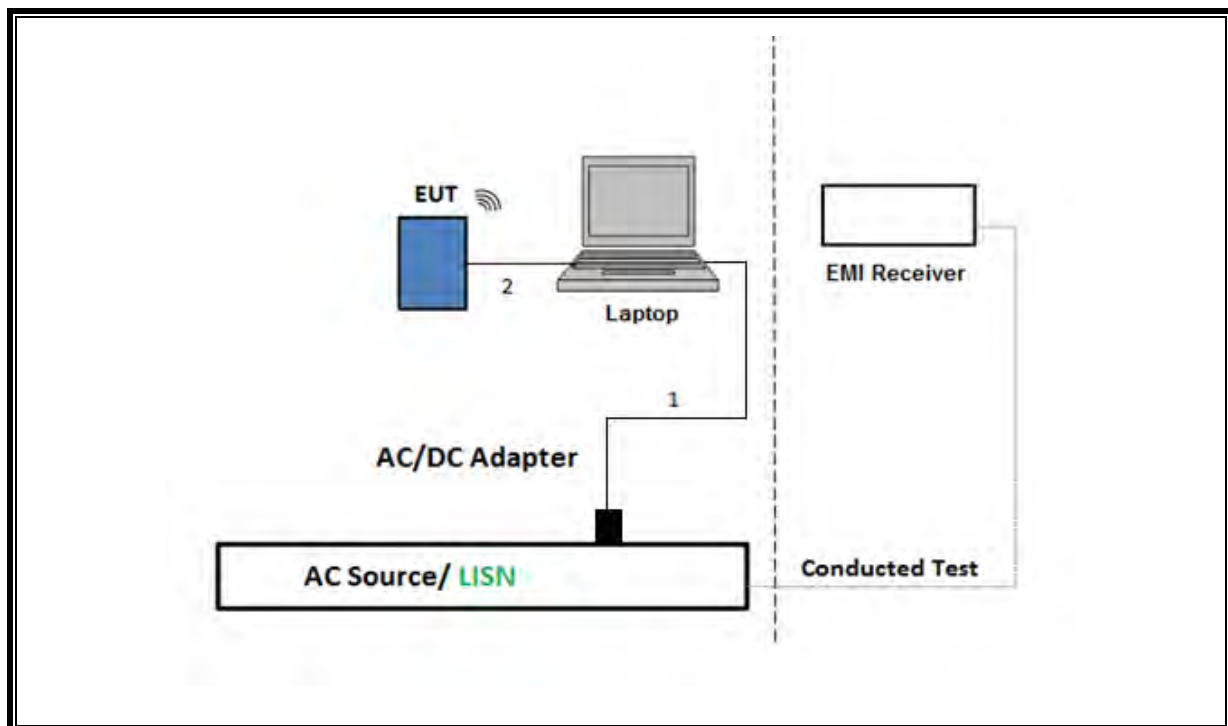
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter		Apple	A1720	C3D8417A7R93KVPA8		DoC
Conducted Switch Box		UL	n/a	208281		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	To Conducted Switch Box
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	DC	1	DC	Shielded	2	From AC/DC adapter
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Shielded	2	From AC/DC adapter
2	USB	1	USB-C	Shielded	1	From AC/DC adapter

TEST SETUP

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

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

SETUP DIAGRAM FOR 30-1000MHz and AC LINE CONDUCTED TEST**TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

7. MEASUREMENT METHOD

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

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

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

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

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

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

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

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

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

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

8. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	226674	2025/01/31
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	226780	2025/04/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226079	2025/02/17
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	230299	2025/01/31
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225575	2025/04/27
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2025/02/17
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	223084	2024/10/31
RF Filter Box, 1-18GHz, 17 Ports	RATS 2	UL-FR1	225079	2025/04/30
*EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2024/04/30
*Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200897	2024/03/31
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2024/10/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2025/02/17
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80430	2024/08/31
RF Filter Box, 1-18GHz	UL-FR1	Frankenstein, 2 Amp version	237597	2024/09/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	80403	2024/06/30
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	236726	2024/10/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2025/02/28
*Antenna, Broadband Hybrid, 30MHz to 3GHz	SunAR rf motion	JB3	235174	2024/04/30
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	235412	2025/01/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235266	2025/02/28
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172354	2024/10/31
RF Amplifier Assembly, 18- 26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2025/03/31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172369	2025/11/30
RF Amplifier Assembly, 26- 40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	221834	2025/03/31

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 2Hz to 44GHz	Keysight Technologies Inc	N9030B	231739	2025/01/31
Conducted Switch Box	N/A	CSB	187984	2025/05/31
Conducted Switch Box	N/A	CSB	208281	2025/05/30
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170013	2024/07/31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2024/07/31

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	

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

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

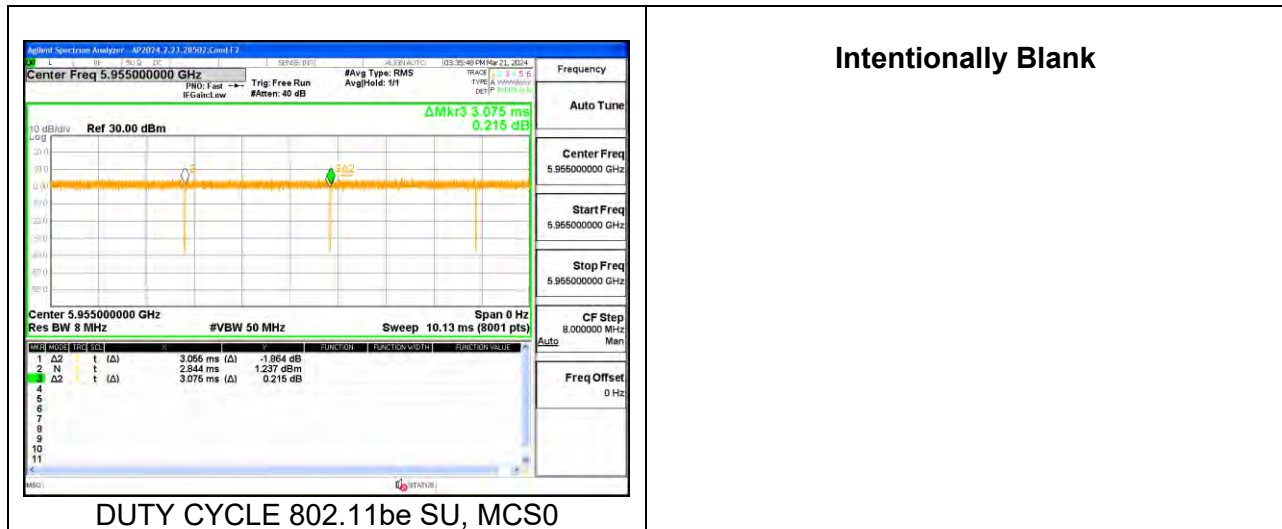
PROCEDURE

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)
11a	--	6Mbps	4.064	4.083	0.9953	99.53%	0.00	0.010
EHT20	SU	MCS0	3.055	3.076	0.9934	99.34%	0.00	0.010
		MCS11	0.247	0.267	0.9251	92.51%	0.34	4.049
	106T	MCS0	3.518	3.556	0.9893	98.93%	0.00	0.010
		MCS11	0.264	0.301	0.8771	87.71%	0.57	3.788
	MRU 106 + 26T	MCS0	3.545	3.585	0.9890	98.90%	0.00	0.010
		MCS11	0.258	0.259	0.9931	99.31%	0.00	0.010
EHT40	SU	MCS0	1.560	1.580	0.9873	98.73%	0.00	0.010
		MCS11	0.157	0.177	0.8870	88.70%	0.52	6.369
	242T	MCS0	3.043	3.064	0.9930	99.30%	0.00	0.010
		MCS11	0.235	0.256	0.9164	91.64%	0.38	4.263
	MRU 106 + 26T	MCS0	3.545	3.583	0.9894	98.94%	0.00	0.010
		MCS11	0.263	0.302	0.8727	87.27%	0.59	3.799
EHT80	SU	MCS0	0.783	0.804	0.9739	97.39%	0.11	1.277
		MCS11	0.111	0.132	0.8403	84.03%	0.76	9.050
	242T	MCS0	3.043	3.064	0.9930	99.30%	0.00	0.010
		MCS11	0.235	0.257	0.9166	91.66%	0.38	4.250
	MRU 106 + 26T	MCS0	3.546	3.586	0.9888	98.88%	0.00	0.010
		MCS11	0.263	0.303	0.8680	86.80%	0.61	3.802
EHT160	SU	MCS0	0.428	0.449	0.9532	95.32%	0.21	2.339
		MCS11	0.089	0.109	0.8104	81.04%	0.91	11.299
	52T	MCS0	3.789	3.858	0.9819	98.19%	0.00	0.010
		MCS11	0.246	0.316	0.7785	77.85%	1.09	4.065
	242T	MCS0	3.789	3.858	0.9819	98.19%	0.00	0.010
		MCS11	0.246	0.316	0.7785	77.85%	1.09	4.065
	MRU 106 + 26T	MCS0	3.547	3.586	0.9891	98.91%	0.00	0.010
		MCS11	0.263	0.302	0.8709	87.09%	0.60	3.802
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	3.055	3.076	0.9934	99.34%	0.00	0.010
	106T	MCS0	3.518	3.556	0.9893	98.93%	0.00	0.010
	MRU 106 + 26T	MCS0	3.547	3.583	0.9898	98.98%	0.00	0.010
EHT40 SDM	SU	MCS0	1.562	1.582	0.9874	98.74%	0.00	0.010
	242T	MCS0	3.041	3.081	0.9872	98.72%	0.00	0.010
	MRU 106 + 26T	MCS0	3.530	3.585	0.9847	98.47%	0.00	0.010
EHT80 SDM	SU	MCS0	0.783	0.804	0.9744	97.44%	0.11	1.276
	MRU 106 + 26T	MCS0	3.545	3.585	0.9888	98.88%	0.00	0.010
EHT160 SDM	SU	MCS0	0.428	0.448	0.9540	95.40%	0.20	2.338
	52T	MCS0	3.786	3.858	0.9813	98.13%	0.00	0.010
	MRU 106 + 26T	MCS0	3.545	3.585	0.9888	98.88%	0.00	0.010

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

DUTY CYCLE PLOTS

9.2. LP 26 dB AND 99% BANDWIDTH

LIMITS

§15.407 (a) (11)

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

PROCEDURE

ANSI C63.10: 2013 §6.9

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

RESULTS

ID:	12491	Date:	2024/07/22
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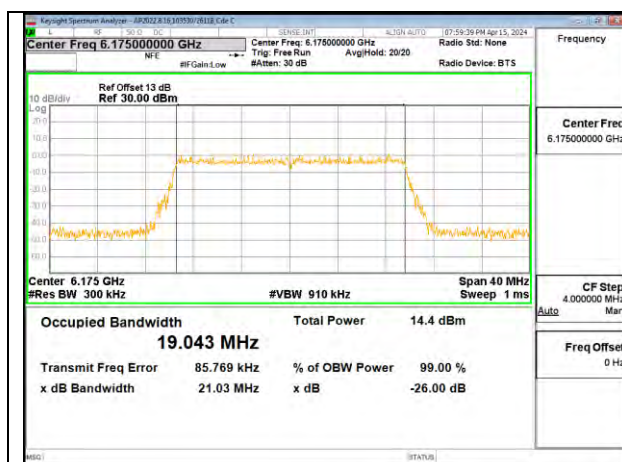
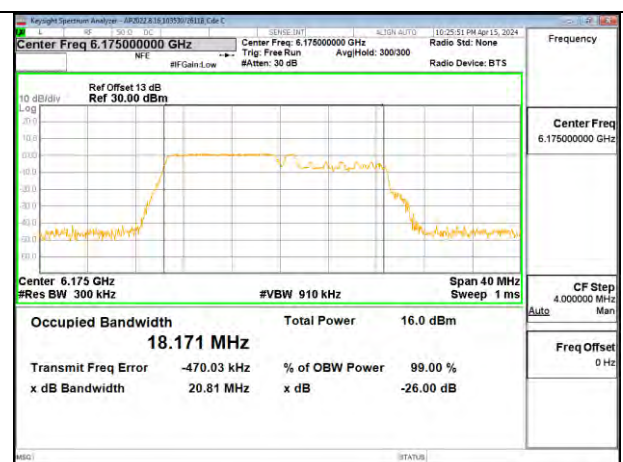
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

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

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

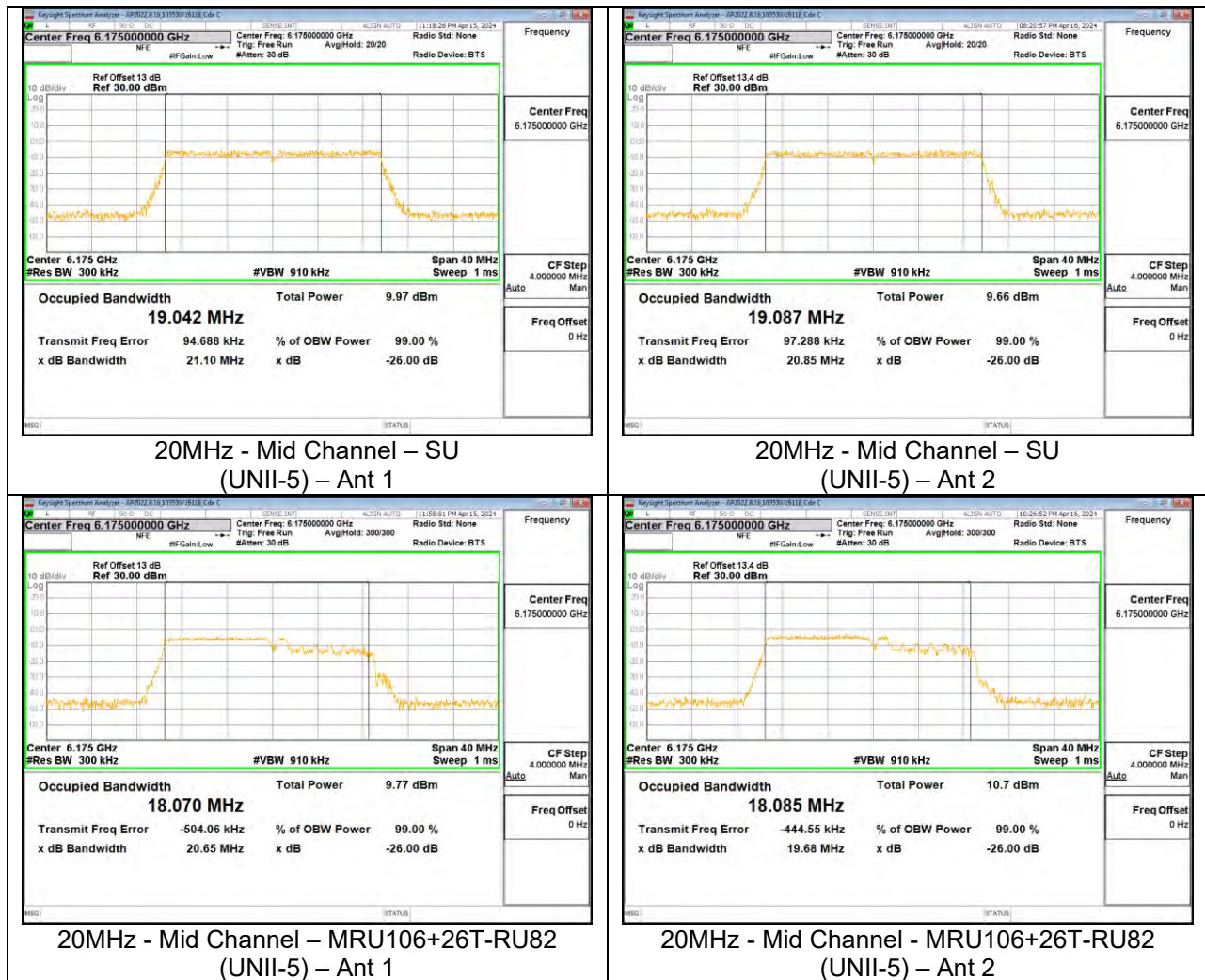
9.2.1. 802.11be SISO MODE IN THE UNII-5 BAND

UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20 MHz	5955	1	SU	--	21.23	20.96	19.0740	19.0580
			MRU106+26T	82	20.87	20.68	18.1720	18.0940
				83	21.02	21.04	18.1850	18.2400
	6175	45	SU	--	21.03	21.00	19.0430	19.0450
			MRU106+26T	82	20.81	20.71	18.1710	18.1640
				83	20.87	20.74	18.2310	18.3040
	6415	93	SU	--	21.06	20.93	19.0120	19.0690
			MRU106+26T	82	21.01	20.72	18.1370	18.1370
				83	21.15	21.01	18.2880	18.3140
40 MHz	5965	3	SU	--	40.99	41.39	37.9460	37.9760
			242T	61	32.43	29.39	19.2690	19.2780
				62	31.26	27.43	19.3440	19.4270
			MRU106+26T	82	24.14	24.74	18.0180	17.6800
				--	--	--	--	--
				85	24.48	24.11	18.2670	18.1860
	6165	43	SU	--	40.69	41.04	37.9400	38.0100
			242T	61	30.36	27.32	19.1820	19.2700
				62	27.87	29.94	19.1444	19.2920
			MRU106+26T	82	25.00	24.07	17.9860	17.9320
				84	27.42	27.97	19.4760	19.5310
				85	24.26	23.66	18.2020	18.2210
	6405	91	SU	--	41.43	40.71	37.9870	37.9790
			242T	61	28.84	26.53	19.3510	19.1860
				62	27.59	28.80	19.2510	19.2980
			MRU106+26T	82	25.03	24.26	18.0790	17.9460
				--	--	--	--	--
				85	24.15	24.38	18.2470	18.0390
80MHz	5985	7	SU	--	81.04	81.58	77.5230	77.4970
			MRU106+26T	82	21.96	20.35	17.9130	17.9230
				--	--	--	--	--
				89	24.06	24.64	18.1490	17.9460
	6145	39	SU	--	81.32	81.17	77.6050	77.5130
			MRU106+26T	82	20.19	21.07	17.9720	18.0570
				85	28.83	27.66	19.5500	19.2950
				89	25.39	24.62	18.0290	18.0930
	6385	87	SU	--	81.34	81.22	77.5030	77.5200
			MRU106+26T	82	22.71	21.76	18.0210	17.9480
				--	--	--	--	--
				89	24.71	28.09	18.1090	18.5940
160MHz	6025	15	SU	--	164.00	165.30	157.0900	156.9800
			52T	37	20.00	20.71	18.0650	18.1520
				--	--	--	--	--
				S52	20.31	22.51	18.2590	19.7590
	6185	47	SU	--	164.00	165.50	157.0800	156.6100
			52T	37	20.08	20.66	18.1830	18.6880
				52	23.11	27.18	19.4220	23.3280
				S52	21.58	20.86	18.2920	18.5150
	6345	79	SU	--	164.20	166.90	157.2500	156.8300
			52T	37	19.99	20.49	18.0790	18.5240
				--	--	--	--	--
				S52	21.08	23.57	18.2850	20.1260

20MHz - Mid Channel – SU
(UNII-5) – Ant 120MHz - Mid Channel – MRU106+26T-RU82
(UNII-5) – Ant 1

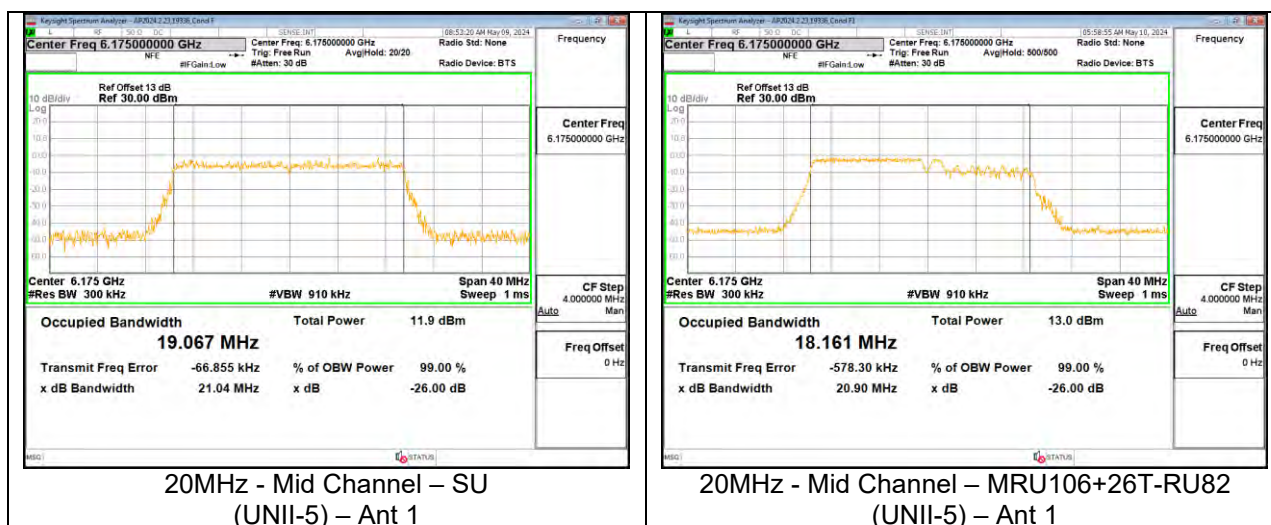
9.2.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND

UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20 MHz	5955	1	SU	--	20.78	21.20	19.0130	19.1020
			MRU106+26T	82	20.67	19.70	18.1710	18.0780
				83	20.87	19.94	18.2440	18.0580
	6175	45	SU	--	21.10	20.85	19.0420	19.0870
			MRU106+26T	82	20.65	19.68	18.0700	18.0850
				83	20.97	20.12	18.2050	17.9810
	6415	93	SU	--	21.11	21.15	19.0610	19.0380
			MRU106+26T	82	20.52	19.71	18.1100	18.1130
				83	20.71	20.15	18.2340	18.0630
40 MHz	5965	3	SU	--	20.99	41.50	37.9580	37.9740
			242T	61	31.52	28.56	19.4270	19.2510
				62	31.64	26.65	19.5280	19.2020
			MRU106+26T	82	23.59	19.89	18.0610	17.8620
				--	--	--	--	--
				85	24.94	20.57	18.0670	17.9460
	6165	43	SU	--	41.35	41.17	38.0380	37.9730
			242T	61	31.83	26.59	19.3810	19.2980
				62	27.49	26.28	19.2740	19.2610
			MRU106+26T	82	24.98	19.87	18.0280	17.7230
				84	27.71	24.01	19.3910	18.9610
				85	23.27	20.36	18.1320	17.8750
	6405	91	SU	--	41.05	41.31	38.0140	38.0610
			242T	61	26.90	34.76	19.2230	19.1720
				62	27.85	27.14	19.4550	19.2640
			MRU106+26T	82	21.60	19.79	17.9950	17.8710
				--	--	--	--	--
				85	25.58	20.67	18.0770	17.9260
80MHz	5985	7	SU	--	81.28	81.52	77.5940	77.5310
			MRU106+26T	82	22.10	19.75	17.5300	17.6770
				--	--	--	--	--
				89	23.94	19.98	18.1550	17.8870
	6145	39	SU	--	81.22	81.04	77.4820	77.5590
			MRU106+26T	82	20.18	19.70	17.9450	17.7550
				85	29.49	22.45	19.4130	18.5280
				89	24.47	20.92	18.1290	17.7880
	6385	87	SU	--	81.61	81.36	77.4420	77.4310
			MRU106+26T	82	21.24	20.03	17.9460	17.8460
				--	--	--	--	--
				89	23.65	20.01	18.2030	17.8180
160MHz	6025	15	SU	--	165.10	164.90	157.0800	156.7700
			52T	37	19.96	19.96	18.3490	18.3470
				--	--	--	--	--
				S52	21.19	19.84	19.5900	18.7040
	6185	47	SU	--	163.80	163.90	157.0300	156.9800
			52T	37	20.14	20.09	18.2050	17.9260
				52	23.52	21.80	18.9390	18.4960
				S52	21.06	20.00	18.1310	17.9430
	6345	79	SU	--	164.60	164.30	157.1600	157.0600
			52T	37	19.96	19.61	17.5390	17.9640
				--	--	--	--	--
				S52	21.73	19.91	18.2500	18.4900



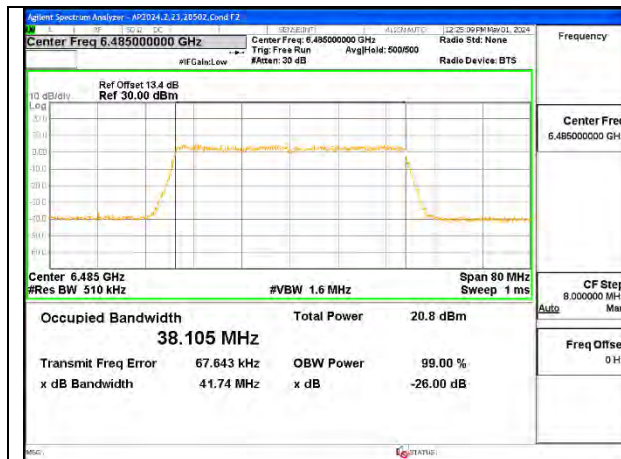
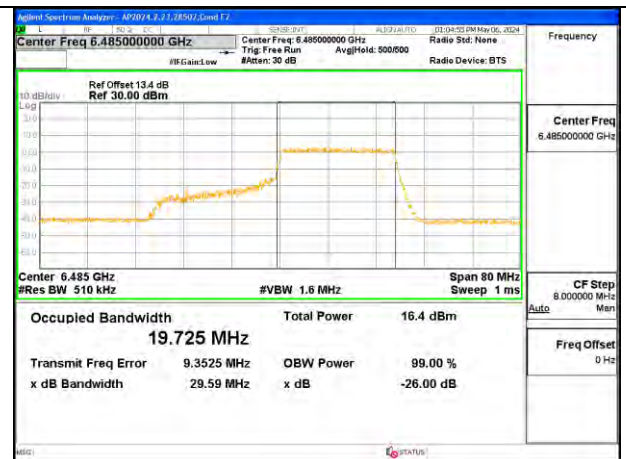
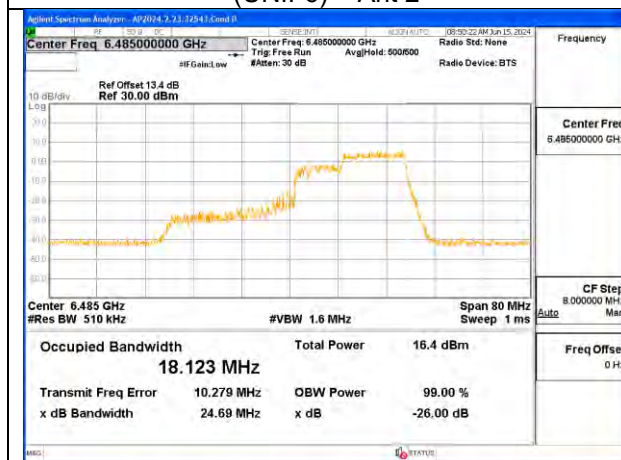
9.2.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND

UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20 MHz	5955	1	SU	--	21.23	20.97	19.0160	19.0410
			MRU106+26T	82	20.88	21.05	18.1650	18.1380
				83	20.95	20.94	18.2890	18.3010
	6175	45	SU	--	21.04	21.08	19.0670	19.0670
			MRU106+26T	82	20.90	20.36	18.1610	18.1020
				83	20.86	19.95	18.2790	18.1100
	6415	93	SU	--	21.18	21.16	19.0400	19.1100
			MRU106+26T	82	20.54	20.26	18.0610	18.0440
				83	21.04	20.06	18.2220	18.0290
40 MHz	5965	3	SU	--	41.24	41.29	38.0520	38.1470
			242T	61	28.18	30.75	19.4380	19.4800
				62	31.00	29.41	19.3910	19.3840
			MRU106+26T	82	20.66	20.96	17.9710	17.8740
				--	--	--	--	--
	6165	43	SU	--	41.35	41.48	38.0630	38.0210
			242T	61	27.94	27.37	19.4520	19.4230
				62	29.50	27.25	19.4550	19.4810
			MRU106+26T	82	20.43	21.00	17.8480	17.9800
				84	26.65	26.44	19.1620	18.7380
	6405	91	SU	--	41.32	41.39	38.0060	38.0700
			242T	61	31.90	27.81	19.8560	19.4490
				62	37.48	29.18	19.7080	19.4220
			MRU106+26T	82	20.88	20.65	17.4970	17.9770
				--	--	--	--	--
	5985	7	SU	--	82.52	80.78	77.5070	77.4550
			MRU106+26T	82	21.26	19.60	18.0170	17.8740
				--	--	--	--	--
			MRU106+26T	89	24.29	19.62	19.0280	17.9340
				--	--	--	--	--
	6145	39	SU	--	81.66	80.91	77.6020	77.4780
			MRU106+26T	82	20.99	19.90	18.0600	17.7670
				85	31.42	22.84	19.6460	18.1970
			MRU106+26T	89	25.39	20.24	19.1990	17.8850
				--	--	--	--	--
	6385	87	SU	--	82.44	80.98	77.6210	77.4890
			MRU106+26T	82	20.87	19.81	18.0370	17.8920
				--	--	--	--	--
			MRU106+26T	89	24.94	20.09	19.1260	17.3200
				--	--	--	--	--
160MHz	6025	15	SU	--	165.60	164.00	157.0900	156.9900
			52T	37	20.24	19.97	18.1180	17.9440
				--	--	--	--	--
			52T	S52	22.20	20.29	18.4830	18.1160
	6185	47	SU	--	165.80	164.70	157.3200	157.4500
			52T	37	20.44	20.06	18.1250	17.9980
				52	23.01	21.83	19.9710	18.8230
			52T	S52	20.28	20.40	18.1700	18.0320
	6345	79	SU	--	165.10	164.30	157.3900	157.1600
			52T	37	20.23	19.81	18.1170	17.8590
				--	--	--	--	--
			52T	S52	20.86	20.20	18.2940	18.0360



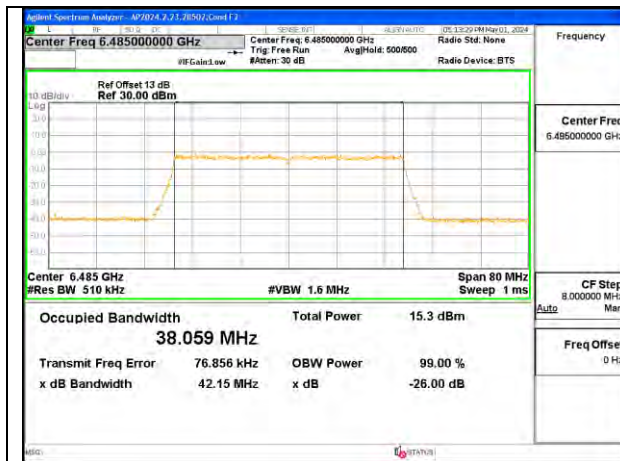
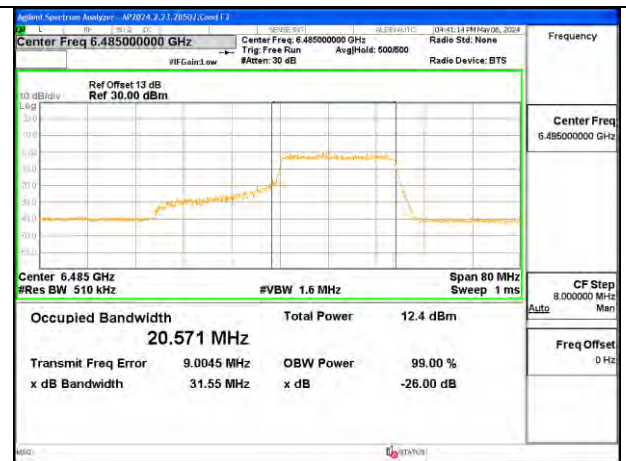
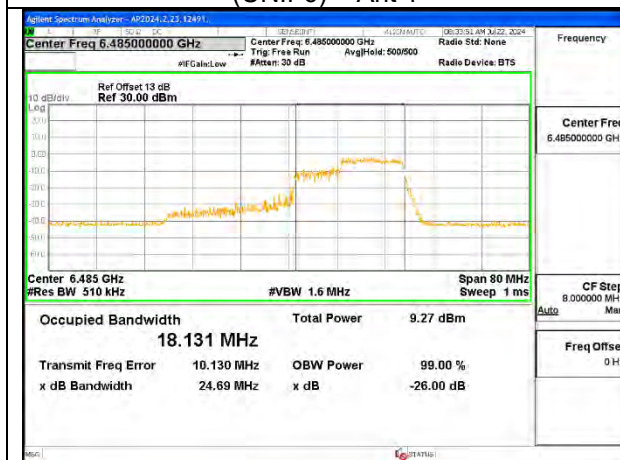
9.2.4. 802.11be SISO MODE IN THE UNII-6 BAND

UNII-6 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6435	97	SU	--	21.24	21.21	19.1140	19.0970
			106T	53	20.64	20.25	18.1980	18.2260
				54	21.14	20.96	18.3440	18.3630
			MRU106+26T	82	20.08	20.76	18.2130	18.1210
				83	21.07	20.30	18.3220	18.2520
	6475	105	SU	--	21.42	21.35	19.1140	19.0620
			106T	53	20.66	20.10	18.1560	18.2090
				54	20.90	21.06	18.2850	18.3660
			MRU106+26T	82	20.93	20.96	18.1780	18.1220
				83	21.17	21.04	18.3380	18.2690
	6515	113	SU	--	21.54	21.32	19.0770	19.1040
			106T	53	20.62	20.89	18.2290	18.2750
				54	20.86	21.14	18.2880	18.3720
			MRU106+26T	82	20.84	20.63	18.1190	18.1240
				83	21.07	21.13	18.2570	18.2940
40MHz	6445	99	SU	--	41.41	41.83	38.0340	38.0170
			242T	61	31.34	33.61	20.1700	20.3950
				62	30.02	30.08	20.5300	20.3050
			MRU106+26T	82	23.99	24.85	18.0430	18.2160
				--	--	--	--	--
	6485	107	SU	--	41.15	41.74	37.9920	38.1050
				--	41.15	41.74	37.9920	38.1050
			242T	61	31.83	29.13	20.2210	20.1720
				62	35.25	29.59	20.2910	19.7250
			MRU106+26T	82	24.46	25.22	18.1340	18.0300
	84	28.12		27.61	20.2000	20.5190		
	85	24.28		24.69	18.1890	18.1230		
	6525 (Straddle)	115	SU	--	41.73	41.60	38.0170	38.0670
				--	41.73	41.60	38.0170	38.0670
			242T	61	33.95	29.56	20.0050	20.1790
62				32.30	30.40	20.3500	20.4350	
MRU106+26T			82	24.17	23.96	18.1440	18.1410	
--	--	--	--	--	--			
85	24.32	24.80	18.1360	18.1710				
80MHz	6465	103	SU	--	80.34	81.14	77.3150	77.3880
			MRU106+26T	82	20.93	21.51	18.0440	18.0110
				--	--	--	--	--
				89	23.22	24.64	18.1800	18.3160
160MHz	6505 (Straddle)	111	SU	--	164.00	164.60	157.1100	157.3100
			52T	37	20.24	23.66	18.2720	20.2620
				--	--	--	--	--
				S52	21.23	21.35	19.4280	19.2720
			MRU106+26T	82	20.19	21.56	17.9180	17.9900
				--	--	--	--	--
				89 (sb1)	23.90	23.01	18.3700	18.1420

40MHz - Mid Channel - SU
(UNII-6) – Ant 240MHz - Mid Channel – 242T-RU62
(UNII-6) – Ant 240MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 2

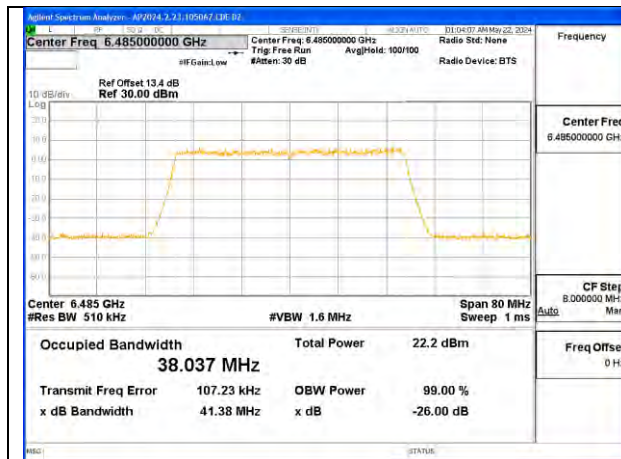
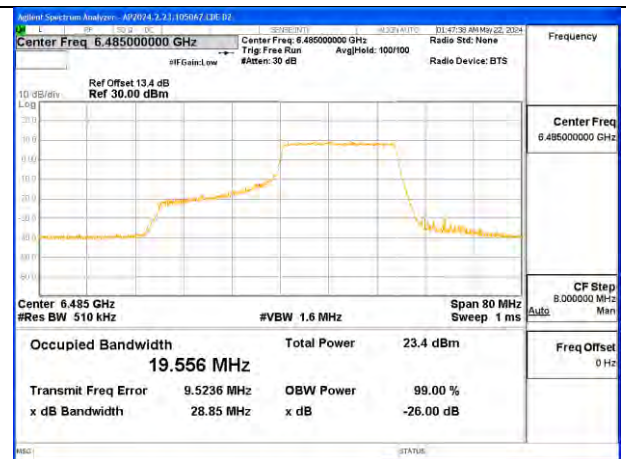
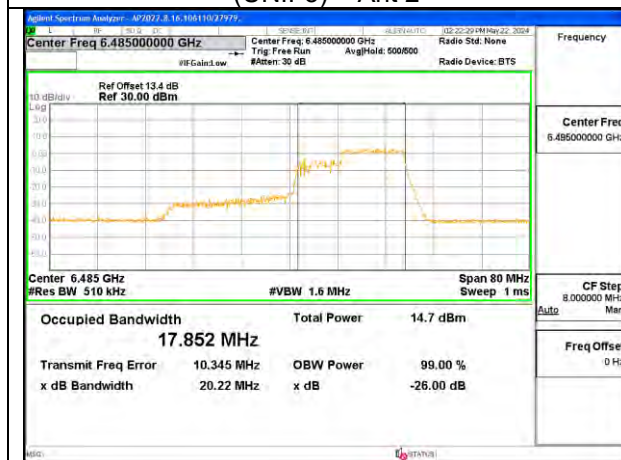
9.2.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND

UNII-6 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6435	97	SU	--	21.64	21.37	19.0730	19.0920
			106T	53	20.62	20.27	18.2520	18.1220
				54	20.99	20.00	18.3290	18.1160
			MRU106+26T	82	20.78	19.88	18.1740	18.1730
				83	21.19	19.88	18.3310	18.1780
	6475	105	SU	--	21.50	21.26	19.1090	19.1190
			106T	53	20.94	19.75	18.2460	18.0900
				54	21.19	20.20	18.3890	18.0500
			MRU106+26T	82	20.91	19.79	18.1670	18.0960
				83	21.10	20.10	18.3620	18.1370
	6515	113	SU	--	21.41	21.24	19.1270	19.1120
			106T	53	20.65	20.07	18.1210	18.0670
				54	21.03	20.20	18.3880	18.1760
			MRU106+26T	82	20.98	19.64	18.1220	18.1110
				83	20.82	20.02	18.2870	18.1310
40MHz	6445	99	SU	--	41.48	41.11	38.1760	38.0890
			242T	61	31.80	28.84	20.4580	19.7900
				62	32.17	26.95	20.4650	19.5320
			MRU106+26T	82	23.99	20.59	18.0880	17.8740
				--	--	--	--	--
	6485	107	SU	--	25.91	21.14	18.3880	17.9540
			242T	61	42.15	41.58	38.0590	38.1390
				62	31.26	28.44	20.2600	19.4630
			MRU106+26T	62	31.55	28.28	20.5710	19.5460
				82	22.92	22.57	18.0790	17.9150
	6525 (Straddle)	115	MRU106+26T	84	26.93	26.57	20.5490	19.8090
				85	24.69	20.33	18.1310	17.6900
			SU	--	41.54	41.56	38.1110	38.0060
			242T	61	37.04	27.24	20.1860	19.4130
				62	33.25	28.97	20.6080	19.4200
80MHz	6465	103	MRU106+26T	82	26.49	20.24	18.0590	17.9110
				--	--	--	--	--
			SU	--	81.00	81.66	77.3880	77.2820
				82	21.10	20.51	17.9880	18.0000
			MRU106+26T	--	--	--	--	--
160MHz	6505 (Straddle)	111	MRU106+26T	89	24.80	19.98	18.2020	17.8670
				89	24.80	19.98	18.2020	17.8670
			SU	--	163.60	162.60	157.0300	156.9600
				37	20.27	21.93	18.1900	19.5330
			52T	--	--	--	--	--
				S52	21.41	19.84	18.1930	17.9870
			MRU106+26T	82	20.85	20.27	18.2850	17.9740
				--	--	--	--	--
			89 (sb1)	--	23.76	19.94	21.2200	18.4680

40MHz - Mid Channel - SU
(UNII-6) – Ant 140MHz - Mid Channel – 242T-RU62
(UNII-6) – Ant 140MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 1

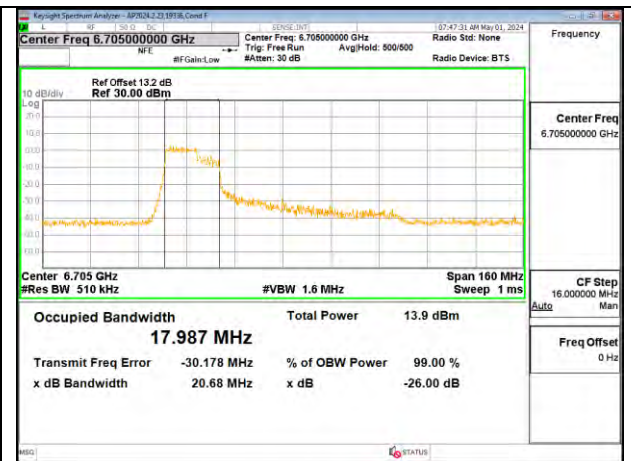
9.2.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND

UNII-6 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6435	97	SU	--	21.35	21.48	19.1280	21.1180
			106T	53	20.68	19.69	18.2510	18.0310
				54	20.84	20.00	18.3460	18.1390
			MRU106+26T	82	20.89	19.64	18.1720	17.9020
				83	21.06	19.92	18.2900	18.1470
	6475	105	SU	--	21.42	21.37	19.1540	19.0750
			106T	53	20.71	20.18	18.2130	18.1180
				54	20.95	19.99	18.3340	18.1160
			MRU106+26T	82	20.93	19.80	18.2060	18.0950
				83	21.21	20.07	18.2890	18.0980
	6515	113	SU	--	21.55	21.35	19.0930	19.1370
			106T	53	20.77	19.89	18.1430	18.0860
				54	21.02	20.11	18.3430	18.0760
			MRU106+26T	82	20.79	19.75	18.1900	18.1140
				83	21.31	19.95	18.3270	18.1000
40MHz	6445	99	SU	--	41.76	41.35	38.1050	38.0890
			242T	61	35.08	28.95	20.1090	19.8020
				62	29.42	29.53	19.9710	19.6520
			MRU106+26T	82	23.49	20.52	17.9760	17.7790
				--	--	--	--	--
	6485	107	SU	--	41.80	41.38	38.1210	38.0370
			242T	61	29.48	30.44	20.0790	19.8390
				62	28.60	28.85	19.9170	19.5560
			MRU106+26T	82	22.96	19.89	18.1340	17.8670
				84	27.19	26.96	20.6070	20.0090
	6525 (Straddle)	115	SU	--	41.70	41.60	38.0750	38.0590
			242T	61	29.55	28.74	19.9680	19.6330
				62	30.61	28.83	20.2570	19.7760
			MRU106+26T	82	24.18	20.60	18.0940	17.9440
				--	--	--	--	--
80MHz	6465	103	SU	--	82.51	81.71	77.4910	77.5400
			MRU106+26T	82	22.12	20.26	18.0220	18.0320
				--	--	--	--	--
				89	25.99	19.94	18.6060	17.4470
160MHz	6505 (Straddle)	111	SU	--	165.60	164.30	157.3000	157.2300
			52T	37	20.30	20.11	18.1390	18.0510
				--	--	--	--	--
				S52	21.72	20.25	18.2770	17.9180
			MRU106+26T	82	20.93	19.92	17.9720	17.9910
				--	--	--	--	--
				89 (sb1)	24.34	20.93	18.2770	17.9950

40MHz - Mid Channel - SU
(UNII-5) – Ant 240MHz - Mid Channel – 242T-RU62
(UNII-5) – Ant 240MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 2

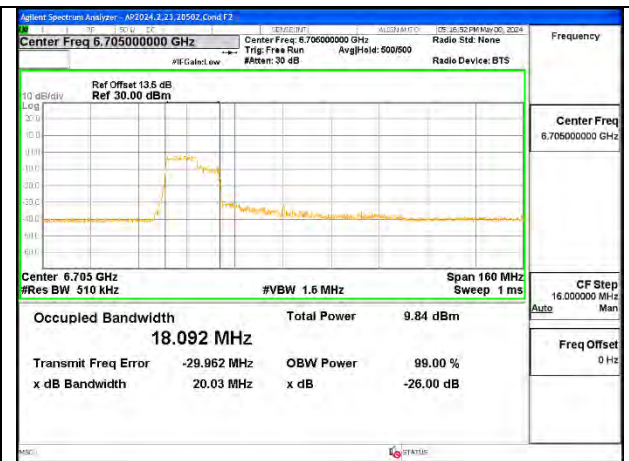
9.2.7. 802.11be SISO MODE IN THE UNII-7 BAND

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6535	117	SU	--	21.29	21.17	19.0950	19.0780
			106T	53	20.46	20.34	18.1780	18.2110
				54	20.82	21.06	18.3570	18.3750
			MRU106+26T	82	20.90	21.09	18.2000	18.1460
				83	21.37	21.40	18.3190	18.2910
	6715	153	SU	--	21.34	20.55	19.0650	19.0500
			106T	53	20.71	20.61	18.2380	18.2400
				54	20.89	21.00	18.3280	18.3670
			MRU106+26T	82	20.76	20.90	18.2210	18.1970
				83	21.12	21.07	18.3100	18.3580
	6875 (Straddle)	185	SU	--	21.59	21.13	19.1280	19.0340
			106T	53	20.83	20.63	18.2150	18.2210
				54	21.16	20.95	18.3860	18.3410
			MRU106+26T	82	21.08	20.92	18.2190	18.1900
				83	21.13	21.15	18.3490	18.3030
40MHz	6565	123	SU	--	41.46	41.90	38.0460	38.0620
			242T	61	31.06	36.30	20.1060	19.8380
				62	32.16	33.79	20.0710	20.0210
			MRU106+26T	82	24.34	25.54	18.0870	18.1260
				--	--	--	--	--
	6685	147	SU	--	41.27	41.38	37.9930	38.0480
			242T	61	31.63	32.45	20.0240	20.0540
				62	31.73	30.54	19.9890	19.7320
			MRU106+26T	82	23.08	24.21	18.0790	18.1030
				84	30.96	28.46	20.2090	20.1690
	6845	179	SU	--	41.07	41.46	38.0860	37.9720
			242T	61	30.48	30.78	19.9150	19.6320
				62	29.76	29.46	20.0440	19.6560
			MRU106+26T	82	24.22	24.20	18.0780	18.0550
				--	--	--	--	--
80MHz	6545 (Straddle)	119	SU	--	82.11	81.00	77.5290	77.4720
			MRU106+26T	82	21.23	21.76	17.9210	18.0190
				--	--	--	--	--
			89	24.22	23.09	18.5470	18.5660	
	6705	151	SU	--	81.21	81.74	77.5800	77.4710
			MRU106+26T	82	20.68	21.10	17.9870	18.1600
				85	28.35	32.78	19.0910	19.8970
				89	25.63	25.47	18.1720	18.3640
	6865 (Straddle)	183	SU	--	81.52	81.34	77.4160	77.4640
			MRU106+26T	82	21.54	22.00	18.0190	18.1630
				--	--	--	--	--
				89	25.66	26.55	18.1550	18.5040
160MHz	6665	143	SU	--	164.20	166.90	157.3400	157.2900
			52T	37	20.67	20.36	18.4260	18.6730
				--	--	--	--	--
				S52	23.36	21.02	20.7480	18.9040
	6825 (Straddle)	175	SU	--	167.20	166.20	157.3000	157.0000
			52T	37	20.64	20.77	18.6080	18.4740
				--	--	--	--	--
S52	22.47	24.00	20.3290	19.8960				

80MHz - Mid Channel - SU
(UNII-7) – Ant 180MHz - Mid Channel – MRU106+26T-RU82
(UNII-7) – Ant 1

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

UNII-7 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 1	Ant 2	Ant 1	Ant 2	
20MHz	6535	117	SU	--	21.32	20.98	19.0820	19.0690	
			106T	53	20.64	19.89	18.2190	18.0600	
				54	20.94	20.25	18.3580	18.1430	
			MRU106+26T	82	20.79	19.92	18.1820	18.1460	
				83	21.16	20.09	18.3370	18.0990	
	6715	153	SU	--	21.24	21.35	19.0900	19.1030	
			106T	53	20.68	20.03	18.2600	18.1530	
				54	20.94	19.85	18.3330	18.1100	
			MRU106+26T	82	21.11	19.79	18.3230	18.1540	
				83	21.18	20.18	18.3430	18.0650	
	6875 (Straddle)	185	SU	--	21.39	21.01	19.0880	19.0730	
			106T	53	20.62	20.05	18.1970	18.1460	
				54	21.18	20.23	18.3470	18.1130	
			MRU106+26T	82	20.89	19.86	18.2070	18.1490	
				83	21.14	20.20	18.3440	18.1160	
40MHz	6565	123	SU	--	41.44	41.60	38.1160	38.0000	
			242T	61	28.28	28.88	19.7630	19.5500	
				62	33.02	29.39	20.1920	19.6390	
			MRU106+26T	82	25.47	20.75	18.0710	18.0040	
				--	--	--	--	--	
	6685	147	SU	--	41.02	41.50	38.1260	38.0530	
			242T	61	30.19	31.17	19.8390	19.6980	
				62	30.41	27.39	20.1700	19.4020	
			MRU106+26T	82	24.68	21.14	18.1800	18.0350	
				84	27.33	25.60	20.1990	19.5550	
	6845	179	SU	--	25.01	20.88	18.2690	17.9890	
			242T	61	40.99	41.73	38.0690	38.0490	
				62	29.19	27.77	20.2180	19.4380	
			MRU106+26T	62	31.09	27.03	20.2930	19.7500	
				82	23.98	20.25	18.1150	17.9910	
80MHz	6545 (Straddle)	119	SU	--	85	26.88	20.90	18.6100	18.0150
			MRU106+26T	82	22.18	20.38	18.1030	17.9420	
				--	--	--	--	--	
	6705	151	SU	--	89	25.57	20.00	19.0740	18.1980
			MRU106+26T	82	21.34	20.03	18.0530	18.0920	
				85	28.26	24.84	19.9460	20.2750	
				89	23.95	20.38	18.4090	18.1910	
			6865 (Straddle)	183	SU	--	81.33	81.15	77.4930
	MRU106+26T	82			20.30	19.79	18.0260	18.0630	
		--			--	--	--	--	
		89			24.28	20.43	18.7800	18.0920	
	160MHz	6665			143	SU	--	163.40	163.80
			52T	37		20.52	20.41	18.5620	18.7370
--				--		--	--	--	
S52			25.54	24.24		23.5600	21.9680		
6825 (Straddle)		175	SU	--	164.60	163.10	157.1700	157.1400	
			52T	37	20.91	22.29	18.9290	23.6230	
				--	--	--	--	--	
				S52	24.33	21.85	22.5930	20.6610	

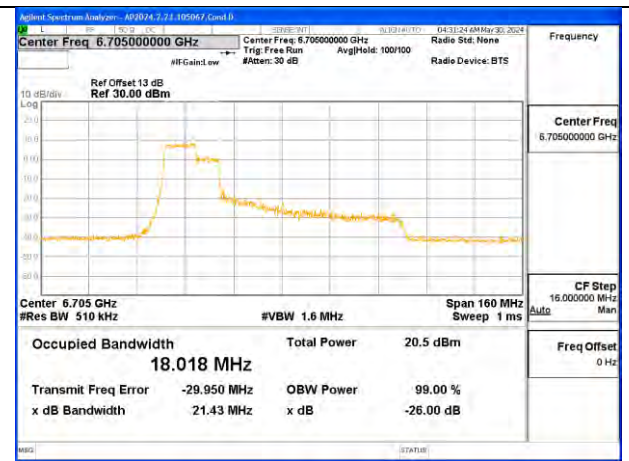
80MHz - Mid Channel - SU
(UNII-7) – Ant 280MHz - Mid Channel – MRU106+26T-RU82
(UNII-7) – Ant 2

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 1	Ant 2	Ant 1	Ant 2	
20MHz	6535	117	SU	--	20.93	21.04	19.0610	19.0160	
			106T	53	20.62	20.06	18.2150	17.8720	
				54	20.87	20.10	18.3500	18.0810	
			MRU106+26T	82	20.86	19.76	18.1760	18.1090	
				83	21.23	20.23	18.3010	18.0290	
	6715	153	SU	--	21.27	21.29	19.0330	19.0680	
			106T	53	20.90	19.99	18.2020	18.1230	
				54	21.05	20.00	18.3350	18.0430	
			MRU106+26T	82	20.94	19.87	18.1810	18.1220	
				83	21.13	20.08	18.2660	18.1150	
	6875 (Straddle)	185	SU	--	21.71	21.15	19.0390	19.0220	
			106T	53	20.57	20.10	18.2660	17.9910	
				54	20.90	20.09	18.3160	18.0700	
			MRU106+26T	82	20.78	19.88	18.1690	18.1370	
				83	21.05	20.18	18.3060	18.1400	
40MHz	6565	123	SU	--	41.20	41.55	37.9790	37.9850	
			242T	61	32.58	21.64	19.8230	19.1810	
				62	33.61	29.93	20.2090	19.5530	
			MRU106+26T	82	23.91	20.20	18.1320	18.0330	
				--	--	--	--	--	
	6685	147	SU	85	23.13	21.09	18.8280	18.0180	
				--	41.37	41.73	37.9720	37.9100	
			242T	61	32.09	29.57	20.0590	19.5830	
				62	31.69	31.00	20.0090	19.5730	
			MRU106+26T	82	24.59	20.03	18.1940	17.9650	
	84	28.97		25.65	20.4290	19.7960			
	6845	179	SU	85	25.04	20.61	18.5290	17.9900	
				--	41.14	41.68	37.9590	38.0750	
			242T	61	35.69	28.99	19.9100	19.5360	
				62	31.09	27.89	20.2660	19.4920	
			MRU106+26T	82	24.26	20.76	18.1460	17.9720	
	--	--		--	--	--			
	80MHz	6545 (Straddle)	119	SU	--	82.24	82.31	77.3030	77.3040
				MRU106+26T	82	21.30	20.10	18.0470	17.9760
--					--	--	--	--	
89				25.57	20.35	19.6780	18.0770		
6705		151	SU	--	81.95	82.93	77.2970	77.2530	
			MRU106+26T	82	21.43	20.23	18.0180	18.0800	
				85	32.43	25.38	20.8630	19.2490	
			89	24.22	20.10	18.3580	17.9800		
6865 (Straddle)		183	SU	--	82.10	82.93	77.3680	77.5020	
			MRU106+26T	82	21.00	19.92	18.0430	17.9660	
				--	--	--	--	--	
			89	26.70	19.67	19.1590	18.0740		
160MHz	6665	143	SU	--	164.80	164.20	157.5200	157.5000	
			52T	37	20.01	19.98	18.1510	18.0870	
				--	--	--	--	--	
			S52	21.53	20.23	18.4480	17.9670		
	6825 (Straddle)	175	SU	--	165.90	164.60	157.2100	157..24	
			52T	37	20.35	20.14	18.1230	18.0960	
				--	--	--	--	--	
S52	22.05	19.78	18.3250	17.8970					

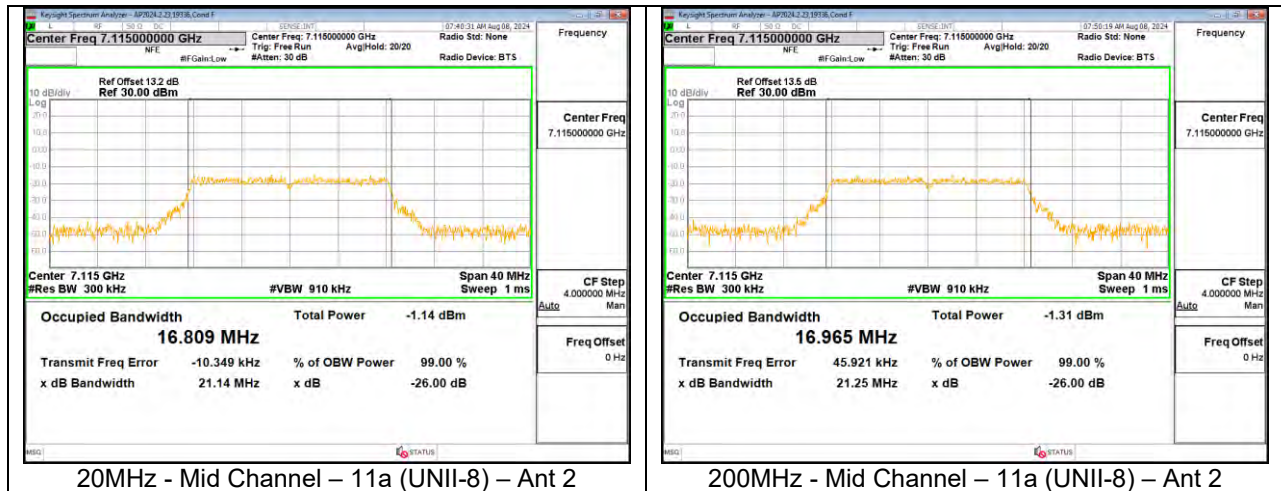


80MHz - Mid Channel - SU (UNII-7) – Ant 1

80MHz - Mid Channel – MRU106+26T-RU82
(UNII-7) – Ant 1

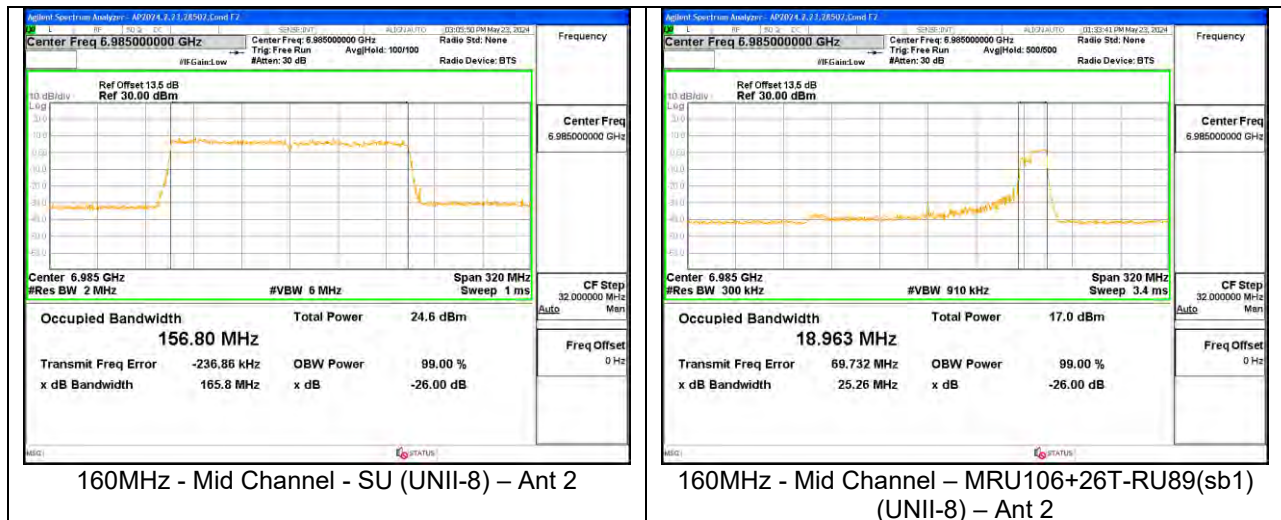
9.2.10. 802.11a SISO MODE IN THE UNII-8 BAND

UNII-8 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	7115	233	--	--	21.14	21.25	16.8090	16.9650



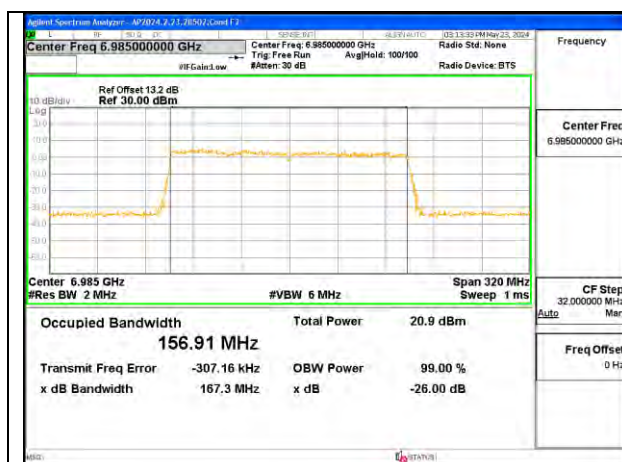
9.2.11. 802.11be SISO MODE IN THE UNII-8 BAND

UNII-8 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6895	189	SU	--	21.59	21.51	19.1270	19.1350
			MRU106+26T	82	20.45	20.54	18.1590	18.0670
				83	21.10	21.05	18.2660	18.2480
	6995	209	SU	--	21.63	21.49	19.1090	19.0840
			MRU106+26T	82	20.92	20.85	18.1240	17.9250
				83	21.09	20.78	18.2890	18.2680
	7095	229	SU	--	21.65	21.58	19.0900	19.1310
			MRU106+26T	82	21.03	20.90	18.0840	18.1730
				83	21.14	21.08	18.3340	18.3270
	7115	233	SU	--	21.57	23.00	19.1750	19.2200
40MHz	6885 (Straddle)	187	SU	--	41.81	41.65	38.0680	38.0640
			MRU106+26T	82	24.35	24.87	18.2230	18.1420
				--	--	--	--	--
	6965	203	SU	--	41.72	41.82	38.0330	38.0930
			MRU106+26T	82	24.30	24.63	18.1290	18.1030
				84	27.09	29.39	20.4320	19.9150
	7085	227	SU	--	41.40	41.44	38.0820	38.0940
			MRU106+26T	82	23.10	24.13	18.1280	18.1130
				--	--	--	--	--
	7085	227	SU	--	41.40	41.44	38.0820	38.0940
			MRU106+26T	82	23.10	24.13	18.1280	18.1130
				--	--	--	--	--
80MHz	6945	199	SU	--	82.52	82.89	77.4380	77.3640
			MRU106+26T	82	21.64	21.38	17.9120	18.1890
				--	--	--	--	--
	7025	215	SU	--	82.78	82.34	77.3590	77.4050
			MRU106+26T	82	21.51	21.54	18.0810	18.0760
				--	--	--	--	--
	7025	215	SU	--	82.78	82.34	77.3590	77.4050
			MRU106+26T	82	21.51	21.54	18.0810	18.0760
				--	--	--	--	--
	7025	215	SU	--	82.78	82.34	77.3590	77.4050
			MRU106+26T	82	21.51	21.54	18.0810	18.0760
				--	--	--	--	--
160MHz	6985	207	SU	--	165.50	165.80	156.9700	156.8000
			MRU106+26T	82 (sb0)	22.09	21.57	18.0680	18.2050
				89 (sb0)	28.54	30.26	20.7190	19.6710
				89 (sb1)	26.23	25.26	19.2350	18.9630
				--	--	--	--	--
				--	--	--	--	--

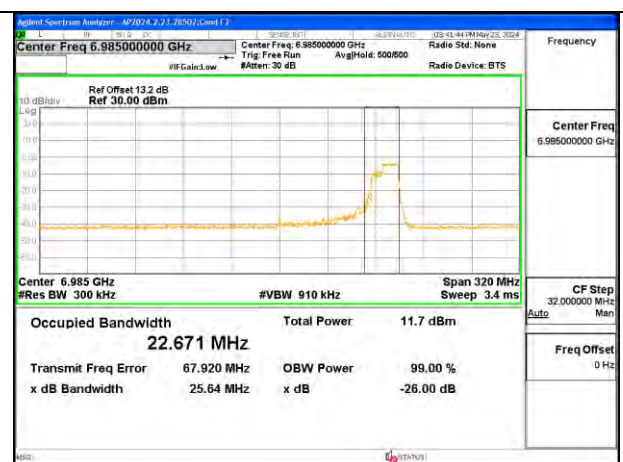


9.2.12. 802.11be MIMO CDD MODE IN THE UNII-8 BAND

UNII-8 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6895	189	SU	--	21.35	21.38	19.1360	19.0800
			MRU106+26T	82	21.13	19.78	18.1640	18.1730
				83	21.01	20.40	18.2720	18.0520
	6995	209	SU	--	21.42	21.37	19.1330	19.1170
			MRU106+26T	82	20.90	19.82	18.1540	18.0210
				83	20.99	20.37	18.2090	18.0250
	7095	229	SU	--	21.59	21.28	19.1110	19.1340
			MRU106+26T	82	21.10	19.75	18.2180	18.1200
				83	21.15	20.10	18.3460	18.1560
	7115	233	SU	--	21.86	21.85	19.2360	19.1730
40MHz	6885 (Straddle)	187	SU	--	41.56	41.35	38.0320	38.0320
			MRU106+26T	82	24.87	21.42	18.2880	18.0730
				--	--	--	--	--
	6965	203	MRU106+26T	85	25.23	21.12	19.0750	18.0770
				--	41.46	41.48	38.0750	38.0350
				82	24.93	21.07	18.1130	17.9790
			MRU106+26T	84	28.86	27.35	20.8720	19.9190
				85	25.38	21.02	18.6100	18.0700
	7085	227	MRU106+26T	--	41.76	41.69	38.0700	38.0390
				82	23.67	21.08	18.2860	18.0830
				--	--	--	--	--
			MRU106+26T	--	--	--	--	--
				85	26.26	21.02	18.4600	18.0930
80MHz	6945	199	MRU106+26T	--	81.93	82.03	77.4650	77.4190
				82	20.77	20.05	18.1390	18.1360
			MRU106+26T	--	--	--	--	--
				89	26.40	20.37	18.3280	18.0380
	7025	215	MRU106+26T	--	82.47	82.53	77.5060	77.5320
				82	21.35	20.31	17.7570	18.0190
			MRU106+26T	--	--	--	--	--
160MHz	6985	207	MRU106+26T	89	25.09	20.11	18.1860	18.0490
				--	167.30	165.70	156.9100	156.7100
				82 (sb0)	21.90	20.58	18.4180	18.2880
				89 (sb0)	29.90	23.41	21.4580	19.5630
				89 (sb1)	25.64	21.44	22.6710	18.4730

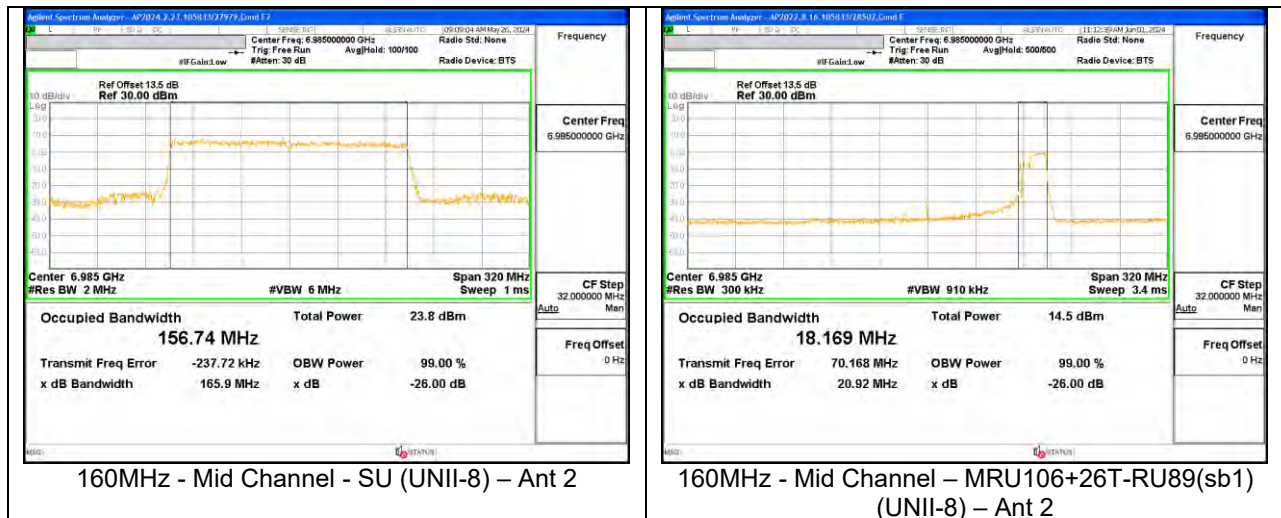


160MHz - Mid Channel - SU (UNII-8) – Ant 1

160MHz - Mid Channel – MRU106+26T-RU89(sb1)
(UNII-8) – Ant 1

9.2.13. 802.11be MIMO SDM MODE IN THE UNII-8 BAND

UNII-8 (MIMO SDM)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6895	189	SU	--	21.03	21.27	19.0850	19.0540
			MRU106+26T	82	20.67	19.87	17.1460	18.0050
				83	21.34	20.49	17.8920	17.9930
	6995	209	SU	--	19.96	21.30	18.1710	19.0520
			MRU106+26T	82	20.95	19.74	18.1800	18.1370
				83	20.51	20.20	18.1530	18.0890
	7095	229	SU	--	21.33	21.07	19.0450	19.0520
			MRU106+26T	82	21.09	19.79	18.1300	18.1640
				83	21.08	20.35	17.5580	18.1110
	7115	233	SU	--	21.04	20.96	19.0400	19.0720
40MHz	6885 (Straddle)	187	SU	--	41.36	41.45	37.9680	37.9770
			MRU106+26T	82	23.70	20.62	18.0030	17.9670
				--	--	--	--	--
	6965	203	SU	--	41.15	41.52	37.9620	37.9590
				--	--	--	--	--
			MRU106+26T	82	23.45	19.88	18.0830	17.8300
				84	29.08	26.06	20.1500	19.5660
				85	24.82	20.67	18.4620	17.9770
	7085	227	SU	--	41.29	41.78	38.0120	37.9860
				--	--	--	--	--
			MRU106+26T	82	24.39	20.18	18.0680	17.9670
				--	--	--	--	--
				85	24.62	20.42	18.2790	17.9510
80MHz	6945	199	SU	--	82.83	82.41	77.3350	77.4610
			MRU106+26T	82	23.24	19.87	18.0360	17.8220
				--	--	--	--	--
				89	25.15	20.64	19.2210	17.9990
	7025	215	SU	--	82.28	82.72	77.3220	77.3350
			MRU106+26T	82	20.26	20.11	18.0920	18.1170
				--	--	--	--	--
160MHz	6985	207	SU	--	164.30	165.90	156.6800	156.7400
				--	--	--	--	--
			MRU106+26T	82 (sb0)	22.11	20.31	18.3130	18.0050
				89 (sb0)	28.72	24.00	20.3730	18.8860
				89 (sb1)	27.33	20.92	18.5150	18.1690



9.3. SP 26 dB AND 99% BANDWIDTH

LIMITS

§15.407 (a) (11)

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

PROCEDURE

ANSI C63.10: 2013 §6.9

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

RESULTS

ID:	12491	Date:	2024/06/30
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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.

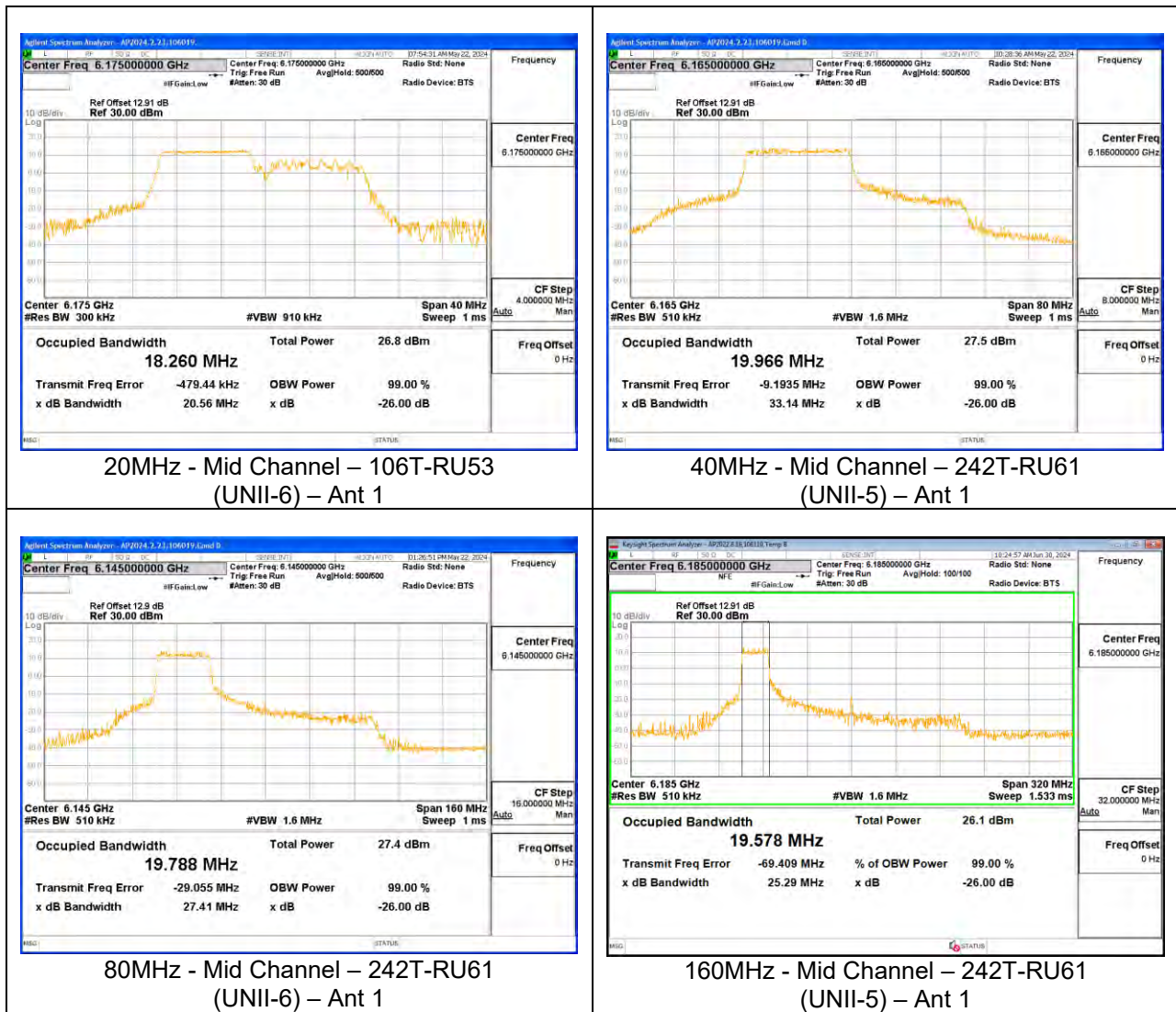
The data in these sections follow the same testing parameters used for LP and SP modes bandwidth tests, therefore, for test setting please refer to LP mode bandwidth test plots.

Only additional 20MHz 106T, 40MHz 242T, 80MHz 242T, and 160MHz 242T test plots are added in this section.

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

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

UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20 MHz	5955	1	SU	--	21.11	21.43	19.0310	19.0920
			106T	53	20.61	21.37	18.2360	18.2590
				54	21.03	22.44	18.3040	18.3560
	6175	45	SU	--	21.44	21.56	19.1240	19.0940
			106T	53	20.56	23.10	18.2600	18.3360
				54	20.85	23.12	18.3130	18.3150
	6415	93	SU	--	22.37	21.51	19.1560	19.1290
			106T	53	22.48	22.38	18.2580	18.2350
				54	21.05	22.63	18.3430	18.3440
40 MHz	5965	3	SU	--	41.97	41.64	38.0200	38.0370
			242T	61	42.67	34.21	20.0710	20.5630
				62	36.68	35.97	19.8530	19.9910
	6165	43	SU	--	41.67	21.75	38.0460	38.0660
			242T	61	33.14	38.78	19.9660	20.2950
				62	32.42	33.36	20.1460	20.0580
	6405	91	SU	--	42.49	42.36	37.1260	38.1850
			242T	61	42.16	40.53	20.7270	20.7450
				62	40.41	39.47	20.3140	20.6180
80MHz	5985	7	SU	--	82.42	82.07	77.5660	77.5240
			242T	61	33.89	30.02	20.6960	20.6190
				--	--	--	--	--
	6145	39		64	27.61	30.34	19.9410	20.0820
			SU	--	82.21	82.79	77.5870	77.6380
			242T	61	27.41	30.42	19.7880	19.9510
				62	49.69	49.50	36.7960	37.3590
				64	29.75	34.99	20.0190	20.3630
				--	83.08	82.74	77.6410	77.6500
	6385	87	SU	--	83.08	82.74	77.6410	77.6500
			242T	61	32.37	36.12	20.0800	20.1870
				--	--	--	--	--
				64	38.08	31.82	20.4970	20.2580
				--	165.30	166.90	157.2600	156.8700
				61	27.28	26.51	19.5580	20.2610
160MHz	6025	15	SU	--	165.30	166.90	157.2600	156.8700
			242T	--	--	--	--	--
				S64	27.28	30.49	19.4090	20.0620
	6185	47	SU	--	163.50	166.80	157.2600	157.4000
			242T	61	25.29	30.21	19.5780	20.2810
				62	33.05	32.13	19.7140	20.2520
				S64	31.15	28.44	19.7470	20.1980
	6345	79	SU	--	164.70	165.70	157.0300	157.6100
			242T	61	27.29	29.28	19.4730	20.4330
				--	--	--	--	--
				S64	28.80	28.08	19.5620	20.1260



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

UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20 MHz	5955	1	SU	--	21.56	21.50	19.1310	19.1260
			106T	53	20.79	21.16	18.2330	18.1280
				54	21.62	20.22	18.3350	18.2000
	6175	45	SU	--	21.46	21.31	19.1200	19.1120
			106T	53	20.53	21.22	17.9410	18.3210
				54	20.99	20.72	18.3070	18.2560
	6415	93	SU	--	31.09	34.03	19.1580	19.2200
			106T	53	21.35	19.59	18.1800	18.3800
				54	22.71	24.39	18.3890	18.3110
40 MHz	5965	3	SU	--	41.45	41.38	38.0110	38.1140
			242T	61	38.18	34.91	20.1780	19.6580
				62	32.59	28.70	19.7830	19.5210
	6165	43	SU	--	41.74	41.46	38.0240	38.1100
			242T	61	32.19	30.59	19.9560	19.6930
				62	34.75	31.34	19.9330	19.6300
	6405	91	SU	--	41.91	41.61	38.1250	38.1200
			242T	61	42.35	39.08	20.8930	20.2740
				62	40.43	42.50	20.5470	20.0740
80MHz	5985	7	SU	--	81.95	82.36	77.6050	77.5670
			242T	61	28.11	31.47	20.1340	19.5270
				64	27.76	28.72	19.9270	19.5490
	6145	39	SU	--	82.56	82.01	77.6220	77.4730
			242T	61	31.51	30.81	20.0460	19.4480
				62	46.30	45.18	37.4750	36.9620
	6385	87		64	29.08	29.76	20.2950	20.0200
			SU	--	83.30	83.97	77.5330	77.8550
			242T	61	40.75	37.39	20.2500	19.8290
160MHz	6025	15		64	33.97	34.23	20.6050	19.7600
			SU	--	166.00	165.90	156.6000	157.1700
			242T	61	27.80	31.61	20.1980	20.0570
	6185	47		S64	29.03	29.91	20.1940	21.3740
			SU	--	165.90	162.80	157.2700	157.0300
			242T	61	28.01	29.27	20.2360	19.8340
	6345	79		62	32.82	33.46	20.6990	19.7700
				S64	26.04	28.63	20.2300	20.9110
			SU	--	164.70	164.90	157.0400	157.2500
			242T	61	25.51	27.47	20.0930	19.5890
				S64	31.64	29.86	21.0000	20.2630

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

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6535	117	SU	--	21.45	21.56	19.0850	19.1090
			106T	53	20.72	20.83	18.2410	18.1980
				54	22.44	21.20	18.3510	18.3690
	6715	153	SU	--	21.68	21.50	19.1280	19.1050
			106T	53	21.74	23.06	18.2970	18.2730
				54	23.29	21.14	18.3700	18.3840
	6855	185	SU	--	21.61	21.64	19.1540	19.1490
			106T	53	21.79	20.58	18.1280	18.2100
				54	21.86	21.63	18.3770	18.3070
40MHz	6565	123	SU	--	41.61	40.69	38.0630	38.0380
			242T	61	35.53	35.54	19.8000	19.6950
				62	37.32	31.45	20.0760	20.0810
	6685	147	SU	--	41.70	41.63	38.1530	38.1200
			242T	61	42.89	40.65	20.6190	20.0190
				62	38.14	40.82	20.2990	20.6120
	6845	179	SU	--	42.04	41.98	38.1730	38.0490
			242T	61	36.98	39.64	20.0450	20.4620
				62	44.05	40.91	20.6590	21.0450
80MHz	6625	119	SU	--	82.87	82.22	77.5840	77.5660
			242T	61	33.20	34.93	19.9120	19.9380
				64	39.39	32.70	21.1600	20.1900
	6705	151	SU	--	82.84	82.92	77.7410	77.7760
			242T	61	37.93	35.80	21.2480	20.3810
				62	47.91	39.66	37.6770	36.7050
	64	36.80	35.97	20.4800	20.3220			
	6785	183	SU	--	82.56	82.48	77.5150	77.5340
			242T	61	34.00	36.23	20.5170	19.9830
64				30.31	36.47	20.0240	20.0210	
160MHz	6665	143	SU	--	164.50	165.00	157.3100	157.2800
			242T	61	26.41	28.57	19.4210	19.4590
				S64	28.53	27.12	19.4480	19.6110

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

UNII-7 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2
20MHz	6535	117	SU	--	21.44	21.23	19.0770	19.0920
			106T	53	20.62	20.78	18.1920	18.1720
				54	21.01	19.73	18.2860	18.1930
	6715	153	SU	--	21.46	21.43	19.1240	19.1070
			106T	53	21.76	22.61	18.3590	18.1910
				54	21.13	21.24	18.1840	18.2740
	6855	185	SU	--	22.09	21.51	19.1910	19.1640
			106T	53	22.03	21.09	18.2760	18.1650
				54	22.03	22.29	18.3920	18.0430
40MHz	6565	123	SU	--	41.42	41.52	38.0840	38.0630
			242T	61	31.05	29.47	19.6980	19.4910
				62	34.59	30.18	20.2090	19.6480
	6685	147	SU	--	42.43	41.71	38.1870	38.0530
			242T	61	37.19	44.50	20.5200	20.6550
				62	41.02	36.42	20.8770	20.6370
	6845	179	SU	--	41.88	41.67	38.0890	38.1030
			242T	61	42.10	42.16	20.2710	20.3570
				62	43.75	41.97	20.7620	20.5230
80MHz	6625	119	SU	--	82.23	82.53	77.5810	77.5770
			242T	61	42.03	30.78	20.2730	19.7600
				64	35.83	28.77	20.5820	20.0340
	6705	151	SU	--	83.29	82.25	77.6920	77.7530
			242T	61	40.33	37.10	20.9510	20.1120
				62	44.13	43.56	37.7690	32.3570
	6785	183		64	38.62	35.48	20.4810	20.1230
			SU	--	82.77	82.45	77.5820	77.5230
			242T	61	35.31	35.28	20.1610	19.8370
160MHz	6665	143		64	35.60	32.63	20.3840	19.9890
			SU	--	164.80	153.80	157.1800	157.2100
			242T	61	28.19	28.65	19.5130	19.5810
				S64	26.14	28.48	19.7770	19.3590

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)	-0.20	-0.20	-0.20	2.81
	Sub-band 2 (6115 - 6255)	-1.20	0.40	-0.33	2.65
	Sub-band 3 (6275 - 6415)	-2.00	0.80	-0.38	2.52
6425 - 6525 UNII-6	N/A	-1.70	0.80	-0.27	2.65
UNII-6/7 (Straddle Channel)	N/A	0.10	0.80	0.46	3.47
6525 - 6875 UNII-7	N/A	0.10	0.30	0.20	3.21
UNII-7/8 (Straddle Channel)	N/A	0.70	0.30	0.50	3.51
6875 - 7125 UNII-8	N/A	0.70	-1.40	-0.22	2.72

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

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

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

Sample Calculation at UNII-5 Band:

Ant6=-0.20, Ant5=-0.20

Uncorrelated Antenna gain= $10 \log[(10^{(-0.20/10)} + 10^{(-0.20/10)})/2] = -0.20 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(-0.20/20)} + 10^{(-0.20/20)})^2/2] = 2.81 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(20MHz Low Channel MRU106+26T-RU82) Power=6.47 dBm

EIRP corr'd power = 6.47 + (-0.20) = 6.27 dBm

2Tx

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

Sample Calculation at UNII-5 Band:

Ant6(20MHz Low Channel MRU106+26T-RU82) Power=0.46 dBm, Ant5 Power=0.46

EIRP corr'd power = $10 \cdot \log(10^{(0.46/10)} + 10^{(0.46/10)})$ + (-0.20) = 3.27 dBm

EIRP PSD Calculation:**1Tx**

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

Sample Calculation at UNII-5 Band:

Ant6(20MHz Low Channel MRU106+26T-RU82) PSD= -2.538 dBm/1MHz

EIRP corr'd PSD = 0 + (-2.538) + (-0.20) = -2.738 dBm/1MHz

2Tx (CDD)

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

Sample Calculation at UNII-5 Band:

Ant6(20MHz Low Channel MRU106+26T-RU82) PSD=-8.397 dBm/1MHz,
Ant5 PSD=-8.645 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \log(10^{((0 + (-8.397))/10)} + 10^{((0 + (-8.645))/10)}))$ + (2.81) = -2.699 dBm/1MHz

2Tx (SDM)

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

Sample Calculation at UNII-5 Band:

Ant6(20MHz Low Channel MRU106+26T-RU82) PSD=-5.947 dBm/1MHz,
Ant5 PSD=-5.829 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \log(10^{((0 + (-5.947))/10)} + 10^{((0 + (-5.829))/10)}))$ + (-0.20) = -3.077 dBm/1MHz

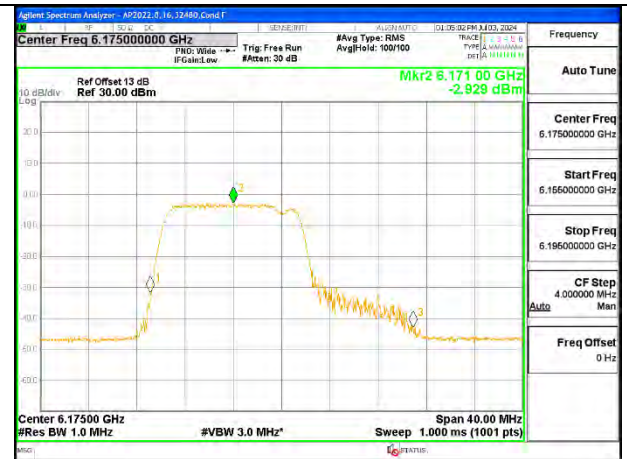
9.4.1. 802.11be SISO MODE IN THE UNII-5 BAND – LOW POWER

LP UNII-5 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)	
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
20MHz	0	0	-0.20	-0.20	5955	1	SU	--	8.69	8.72	8.49	8.52	-2.675	-2.593	-2.875	-2.793
							MRU106+26T	82	6.47	6.43	6.27	6.23	-2.538	-2.391	-2.738	-2.591
							MRU106+26T	83	6.45	6.44	6.25	6.24	-2.301	-2.354	-2.501	-2.554
			-1.20	0.40	6175	45	SU	--	8.23	8.23	7.03	8.63	-3.174	-3.126	-4.374	-2.726
							MRU106+26T	82	5.96	5.92	4.76	6.32	-2.929	-3.141	-4.129	-2.741
							MRU106+26T	83	5.95	5.91	4.75	6.31	-3.058	-2.903	-4.258	-2.503
			-2.00	0.80	6415	93	SU	--	7.72	7.73	5.72	8.53	-3.506	-3.390	-5.506	-2.590
							MRU106+26T	82	5.48	5.48	3.48	6.28	-3.479	-3.443	-5.479	-2.643
							MRU106+26T	83	5.47	5.45	3.47	6.25	-3.118	-3.233	-5.118	-2.433
40MHz	0	0	-0.20	-0.20	5965	3	SU	--	11.73	11.73	11.53	11.53	-2.696	-2.507	-2.896	-2.707
							242T	61	8.72	8.73	8.52	8.53	-3.012	-2.859	-3.212	-3.059
							MRU106+26T	62	8.73	8.73	8.53	8.53	-2.932	-3.053	-3.132	-3.253
							MRU106+26T	82	6.43	6.42	6.23	6.22	-2.339	-2.365	-2.539	-2.565
							MRU106+26T	84	6.47	6.48	6.27	6.28	-2.252	-2.260	-2.452	-2.460
							MRU106+26T	85	6.48	6.47	6.28	6.27	-2.460	-2.244	-2.660	-2.444
			-1.20	0.40	6165	43	SU	--	11.19	11.23	9.99	11.63	-3.325	-3.482	-4.525	-3.082
							242T	61	8.19	8.20	6.99	8.60	-3.358	-3.199	-4.558	-2.799
							MRU106+26T	62	8.17	8.22	6.97	8.62	-3.094	-3.017	-4.294	-2.617
							MRU106+26T	82	5.98	5.95	4.78	6.35	-3.202	-3.283	-4.402	-2.883
							MRU106+26T	84	5.96	5.96	4.78	6.36	-3.257	-2.959	-4.457	-2.559
							MRU106+26T	85	5.98	5.89	4.76	6.29	-3.195	-2.869	-4.395	-2.469
			-2.00	0.80	6405	91	SU	--	10.71	10.69	8.71	11.49	-3.435	-3.452	-5.435	-2.652
							242T	61	7.70	7.71	5.70	8.51	-4.192	-4.009	-6.192	-3.209
							MRU106+26T	62	7.70	7.71	5.70	8.51	-4.076	-3.895	-6.076	-3.095
							MRU106+26T	82	5.41	5.46	3.41	6.26	-3.663	-3.547	-5.663	-2.747
							MRU106+26T	84	5.44	5.47	3.44	6.27	-3.578	-3.518	-5.578	-2.718
							MRU106+26T	85	5.44	5.44	3.44	6.24	-3.833	-3.837	-5.833	-3.037
80MHz	0.11	0	-0.20	-0.20	5985	7	SU	--	14.69	14.73	14.49	14.53	-2.560	-2.471	-2.650	-2.561
							MRU106+26T	82	6.45	6.47	6.25	6.27	-2.331	-2.411	-2.531	-2.611
							MRU106+26T	85	6.45	6.47	6.25	6.27	-2.331	-2.147	-2.531	-2.347
							MRU106+26T	89	6.44	6.46	6.24	6.26	-2.479	-2.083	-2.679	-2.283
			-1.20	0.40	6145	39	SU	--	14.20	14.22	13.00	14.62	-3.055	-2.877	-4.145	-2.367
							MRU106+26T	82	5.97	5.98	4.77	6.38	-3.413	-3.380	-4.613	-2.980
							MRU106+26T	85	5.89	5.95	4.69	6.35	-3.113	-3.228	-4.313	-2.828
							MRU106+26T	89	5.98	5.97	4.78	6.37	-3.384	-3.402	-4.584	-3.002
			-2.00	0.80	6385	87	SU	--	13.74	13.72	11.74	14.52	-3.351	-3.414	-5.241	-2.504
							MRU106+26T	82	5.41	5.48	3.41	6.28	-3.588	-3.676	-5.588	-2.876
							MRU106+26T	85	5.46	5.48	3.46	6.28	-3.566	-3.608	-5.566	-2.808
							MRU106+26T	89	5.44	5.42	3.44	6.22	-3.500	-3.823	-5.500	-3.023
160MHz	0.21	0	-0.20	-0.20	6025	15	SU	--	16.92	16.94	16.72	16.74	-3.379	-3.277	-3.369	-3.267
							52T	37	2.47	2.39	2.27	2.19	-2.824	-2.806	-3.024	-3.006
							52T	52	2.45	2.46	2.25	2.26	-3.004	-2.976	-3.204	-3.176
							52T	S52	2.45	2.46	2.25	2.26	-2.930	-3.035	-3.130	-3.235
			-1.20	0.40	6185	47	SU	--	16.43	16.44	15.23	16.84	-3.709	-3.769	-4.699	-3.159
							52T	37	1.94	1.93	0.74	2.33	-3.149	-3.458	-4.349	-3.058
							52T	52	1.92	1.96	0.72	2.36	-3.545	-3.161	-4.745	-2.761
							52T	S52	1.91	1.97	0.71	2.37	-3.511	-3.115	-4.711	-2.715
			-2.00	0.80	6345	79	SU	--	15.96	15.96	13.96	16.76	-4.010	-4.019	-5.800	-3.009
							52T	37	1.43	1.44	-0.57	2.24	-3.872	-3.723	-5.872	-2.923
							52T	52	1.42	1.43	-0.58	2.23	-3.840	-3.949	-5.840	-3.149
							52T	S52	1.48	1.48	-0.52	2.28	-3.718	-3.903	-5.718	-3.103

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-6) – Ant 120MHz - Mid Channel – MRU106+26T-RU82
(UNII-5) – Ant 1

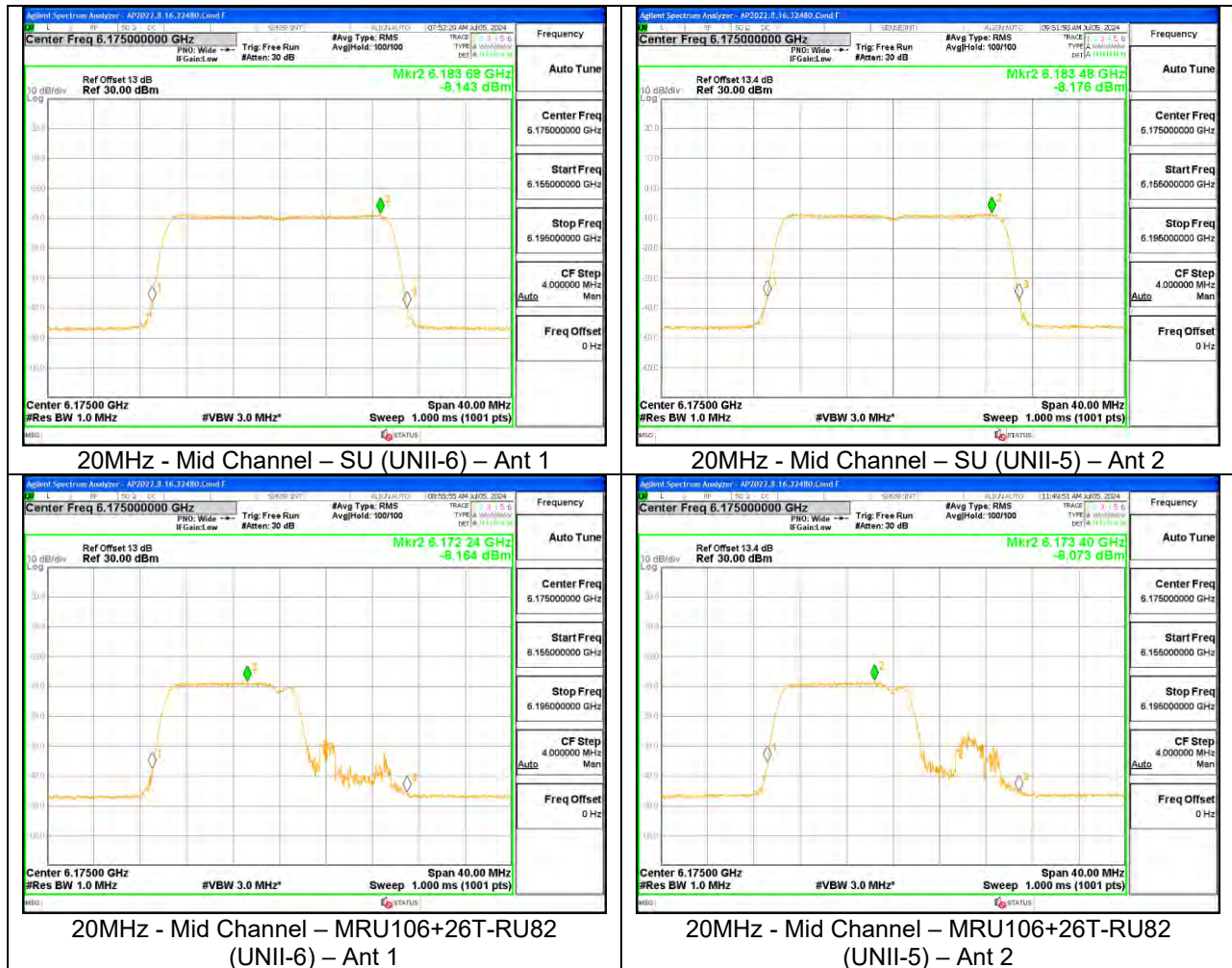
9.4.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – LOW POWER

LP CDD UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.20	2.81	5955	1	SU	--	2.72	2.73	5.54	-8.614	-8.633	-2.803
							MRU106+26T	82	0.46	0.46	3.27	-8.397	-8.645	-2.699
								83	0.44	0.42	3.24	-8.461	-8.519	-2.670
			-0.33	2.65	6175	45	SU	--	2.92	2.98	5.63	-8.143	-8.176	-2.499
							MRU106+26T	82	0.72	0.71	3.40	-8.164	-8.073	-2.458
								83	0.73	0.73	3.41	-8.191	-8.228	-2.549
			-0.38	2.52	6415	93	SU	--	2.93	2.95	5.57	-7.823	-8.002	-2.381
							MRU106+26T	82	0.73	0.73	3.36	-8.250	-8.129	-2.659
								83	0.70	0.73	3.35	-8.133	-8.247	-2.659
40MHz	0	0	-0.20	2.81	5965	3	SU	--	5.73	5.72	8.54	-8.818	-8.783	-2.980
							242T	61	2.72	2.71	5.53	-8.069	-7.941	-2.184
								62	2.73	2.72	5.54	-8.155	-7.951	-2.232
							MRU106+26T	82	0.47	0.48	3.29	-8.665	-8.646	-2.835
								84	0.44	0.42	3.24	-8.486	-8.527	-2.686
								85	0.46	0.41	3.25	-8.420	-8.556	-2.667
			-0.33	2.65	6165	43	SU	--	5.91	5.95	8.61	-8.135	-8.280	-2.547
							242T	61	2.95	2.95	5.63	-8.713	-8.133	-2.753
								62	2.96	2.96	5.64	-8.601	-8.195	-2.733
							MRU106+26T	82	0.73	0.69	3.39	-8.135	-8.094	-2.454
								84	0.72	0.73	3.41	-8.113	-8.074	-2.433
								85	0.73	0.72	3.41	-7.957	-8.061	-2.348
			-0.38	2.52	6405	91	SU	--	5.97	5.97	8.60	-8.211	-8.293	-2.722
							242T	61	2.98	2.93	5.59	-9.151	-8.957	-3.523
								62	2.95	2.98	5.60	-9.015	-8.853	-3.403
							MRU106+26T	82	0.74	0.74	3.37	-8.045	-8.049	-2.517
								84	0.74	0.74	3.37	-8.171	-7.881	-2.493
								85	0.73	0.74	3.37	-8.026	-7.958	-2.462
80MHz	0.11	0	-0.20	2.81	5985	7	SU	--	8.70	8.69	11.51	-8.758	-8.648	-2.772
							MRU106+26T	82	0.47	0.43	3.26	-8.682	-8.537	-2.789
								85	0.48	0.47	3.29	-8.401	-8.483	-2.622
								89	0.44	0.43	3.25	-8.516	-8.534	-2.705
			-0.33	2.65	6145	39	SU	--	8.95	8.92	11.62	-8.523	-8.343	-2.662
							MRU106+26T	82	0.73	0.69	3.39	-8.178	-8.180	-2.519
								85	0.72	0.72	3.40	-8.056	-7.843	-2.288
								89	0.74	0.68	3.39	-8.106	-8.203	-2.494
			-0.38	2.52	6385	87	SU	--	8.93	8.92	11.56	-8.589	-8.334	-2.819
							MRU106+26T	82	0.70	0.72	3.34	-8.031	-8.027	-2.499
								85	0.73	0.69	3.34	-7.820	-7.923	-2.341
								89	0.69	0.68	3.32	-8.186	-8.208	-2.667
160MHz	0.21	0	-0.20	2.81	6025	15	SU	--	10.93	10.98	13.77	-9.399	-9.271	-3.304
							52T	37	-3.55	-3.57	-0.75	-9.057	-9.104	-3.260
								52	-3.59	-3.65	-0.81	-9.167	-9.306	-3.416
								552	-3.61	-3.64	-0.81	-9.226	-9.288	-3.437
			-0.33	2.65	6185	47	SU	--	11.23	11.17	13.88	-8.817	-8.716	-2.896
							52T	37	-3.33	-3.34	-0.65	-8.717	-8.748	-3.072
								52	-3.27	-3.32	-0.61	-8.819	-8.704	-3.101
								552	-3.31	-3.26	-0.60	-8.917	-8.803	-3.199
			-0.38	2.52	6345	79	SU	--	11.21	11.17	13.82	-8.615	-8.719	-2.926
							52T	37	-3.34	-3.33	-0.70	-8.986	-8.973	-3.449
								52	-3.30	-3.28	-0.66	-8.895	-8.843	-3.339
								552	-3.30	-3.26	-0.65	-8.892	-8.805	-3.318

Note:

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

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



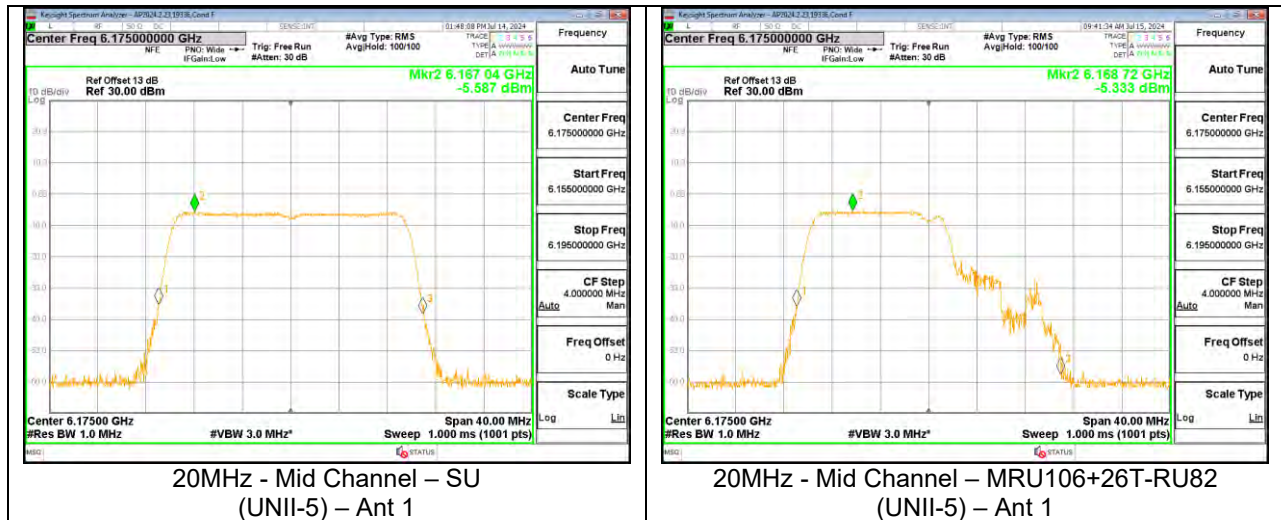
9.4.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND – LOW POWER

LP SDM UNII-5 (MIMO)	Duty Factor (dB)		Un- Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.20	2.81	5955	1	SU	--	5.71	5.72	8.53	-6.034	-5.815	-3.113
							MRU106+26T	82	3.48	3.41	6.26	-5.947	-5.829	-3.077
							MRU106+26T	83	3.45	3.47	6.27	-5.799	-5.974	-3.075
			-0.33	2.65	6175	45	SU	--	5.90	5.90	8.58	-5.587	-5.576	-2.901
							MRU106+26T	82	3.74	3.73	6.42	-5.333	-5.360	-2.666
							MRU106+26T	83	3.74	3.69	6.40	-5.336	-5.252	-2.613
			-0.38	2.52	6415	93	SU	--	5.96	5.93	8.58	-5.318	-5.457	-2.757
							MRU106+26T	82	3.71	3.74	6.36	-5.456	-5.323	-2.759
							MRU106+26T	83	3.68	3.67	6.31	-5.555	-5.573	-2.934
40MHz	0	0	-0.20	2.81	5965	3	SU	--	8.71	8.73	11.53	-5.551	-5.607	-2.769
							242T	61	5.74	5.73	8.55	-5.905	-5.939	-3.112
							242T	62	5.68	5.73	8.52	-5.779	-5.959	-3.058
							MRU106+26T	82	3.47	3.43	6.26	-5.739	-5.858	-2.988
							MRU106+26T	84	3.47	3.44	6.27	-5.746	-5.820	-2.973
							MRU106+26T	85	3.44	3.46	6.26	-5.815	-5.718	-2.956
			-0.33	2.65	6165	43	SU	--	8.98	8.95	11.65	-5.347	-5.318	-2.652
							242T	61	5.98	5.94	8.64	-5.438	-5.579	-2.828
							242T	62	5.94	5.92	8.61	-5.563	-5.639	-2.921
							MRU106+26T	82	3.74	3.74	6.42	-5.168	-5.362	-2.584
							MRU106+26T	84	3.74	3.73	6.42	-5.369	-5.393	-2.701
							MRU106+26T	85	3.67	3.72	6.38	-5.309	-5.441	-2.694
			-0.38	2.52	6405	91	SU	--	8.96	8.96	11.59	-5.327	-5.403	-2.735
							242T	61	5.96	5.90	8.56	-5.525	-5.699	-2.981
							242T	62	5.90	5.94	8.55	-5.670	-5.582	-2.995
							MRU106+26T	82	3.74	3.71	6.36	-5.346	-5.523	-2.803
							MRU106+26T	84	3.71	3.71	6.34	-5.120	-5.463	-2.658
							MRU106+26T	85	3.73	3.73	6.36	-5.382	-5.476	-2.798
80MHz	0.11	0	-0.20	2.81	5985	7	SU	--	11.74	11.68	14.52	-5.943	-5.736	-2.918
							MRU106+26T	82	3.41	3.40	6.22	-5.882	-5.933	-3.097
							MRU106+26T	85	3.41	3.46	6.25	-5.876	-5.592	-2.921
							MRU106+26T	89	3.45	3.46	6.27	-5.614	-5.580	-2.787
			-0.33	2.65	6145	39	SU	--	11.94	11.98	14.64	-5.522	-5.248	-2.593
							MRU106+26T	82	3.70	3.71	6.39	-5.170	-5.141	-2.475
							MRU106+26T	85	3.70	3.68	6.37	-5.177	-5.228	-2.522
							MRU106+26T	89	3.69	3.67	6.36	-5.190	-5.302	-2.565
			-0.38	2.52	6385	87	SU	--	11.94	11.97	14.59	-5.521	-5.454	-2.747
							MRU106+26T	82	3.67	3.71	6.32	-5.281	-5.141	-2.580
							MRU106+26T	85	3.60	3.74	6.30	-5.360	-5.024	-2.558
							MRU106+26T	89	3.66	3.65	6.29	-5.340	-5.363	-2.721
160MHz	0.20	0	-0.20	2.81	6025	15	SU	--	13.96	13.96	16.77	-6.150	-6.250	-3.189
							52T	37	-0.56	-0.54	2.26	-5.985	-5.926	-3.145
							52T	52	-0.54	-0.53	2.28	-6.085	-5.912	-3.187
							52T	S52	-0.51	-0.54	2.29	-5.782	-5.863	-3.012
			-0.33	2.65	6185	47	SU	--	14.15	14.20	16.86	-6.040	-5.922	-3.100
							52T	37	-0.29	-0.30	2.39	-5.428	-5.452	-2.760
							52T	52	-0.32	-0.41	2.32	-5.559	-5.561	-2.880
							52T	S52	-0.33	-0.35	2.34	-5.593	-5.700	-2.966
			-0.38	2.52	6345	79	SU	--	14.15	14.20	16.81	-6.040	-5.915	-3.147
							52T	37	-0.31	-0.33	2.31	-5.500	-5.565	-2.902
							52T	52	-0.35	-0.34	2.29	-5.493	-5.662	-2.946
							52T	S52	-0.35	-0.40	2.26	-5.515	-5.605	-2.929

Note:

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

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



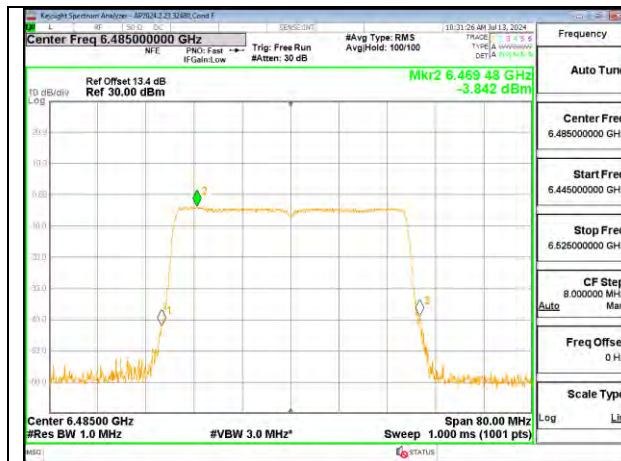
9.4.4. 802.11be SISO MODE IN THE UNII-6 BAND – LOW POWER

LP UNII-6 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)	
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
20MHz	0	0	-1.70	0.80	6435	97	SU	--	7.73	7.74	6.03	8.54	-3.792	-3.802	-5.492	-3.002
							106T	53	4.73	4.73	3.03	5.53	-2.930	-2.931	-4.630	-2.131
								54	4.69	4.68	2.99	5.48	-3.029	-2.876	-4.729	-2.076
							MRU106+26T	82	5.47	5.46	3.77	6.26	-3.350	-3.102	-5.050	-2.302
								83	5.44	5.41	3.74	6.21	-3.417	-3.243	-5.117	-2.443
					6475	105	SU	--	7.72	7.73	6.02	8.53	-3.609	-3.866	-5.309	-3.066
							106T	53	4.69	4.70	2.99	5.50	-3.033	-3.087	-4.733	-2.287
								54	4.68	4.70	2.98	5.50	-2.999	-3.073	-4.699	-2.273
							MRU106+26T	82	5.48	5.44	3.78	6.24	-3.320	-3.419	-5.020	-2.619
								83	5.46	5.41	3.76	6.21	-3.368	-3.492	-5.068	-2.692
					6515	113	SU	--	7.70	7.68	6.00	8.48	-3.728	-3.671	-5.428	-2.871
							106T	53	4.74	4.72	3.04	5.52	-3.154	-2.960	-4.854	-2.160
								54	4.72	4.71	3.02	5.51	-3.218	-3.095	-4.918	-2.295
							MRU106+26T	82	5.47	5.47	3.77	6.27	-3.359	-3.351	-5.059	-2.551
								83	5.45	5.45	3.75	6.25	-3.513	-3.304	-5.213	-2.504
40MHz	0	0	-1.70	0.80	6445	99	SU	--	10.74	10.70	9.04	11.50	-3.985	-4.085	-5.685	-3.285
							242T	61	7.70	7.68	6.00	8.48	-3.473	-3.298	-5.173	-2.498
								62	7.71	7.70	6.01	8.50	-3.322	-3.477	-5.022	-2.677
							MRU106+26T	82	5.48	5.43	3.78	6.23	-3.222	-3.335	-4.922	-2.535
								84	5.46	5.48	3.76	6.28	-3.154	-3.315	-4.854	-2.515
					85	5.41		5.45	3.71	6.25	-3.163	-3.292	-4.863	-2.492		
					6485	107	SU	--	10.68	10.68	8.98	11.48	-3.892	-3.842	-5.592	-3.042
							242T	61	7.68	7.68	5.98	8.48	-3.275	-3.271	-4.975	-2.471
								62	7.73	7.68	6.03	8.48	-3.408	-3.212	-5.108	-2.412
							MRU106+26T	82	5.46	5.47	3.76	6.27	-3.175	-3.255	-4.875	-2.455
								84	5.41	5.48	3.71	6.28	-3.155	-3.351	-4.855	-2.551
					85	5.46		5.43	3.76	6.23	-3.164	-3.202	-4.864	-2.402		
					6525 (Straddle)	115	SU	--	10.69	10.71	10.79	11.51	-3.865	-3.813	-3.765	-3.013
							242T	61	7.72	7.72	7.82	8.52	-3.487	-3.173	-3.387	-2.373
								62	7.71	7.73	7.81	8.53	-3.442	-3.409	-3.342	-2.609
							MRU106+26T	82	5.43	5.43	5.53	6.23	-3.339	-3.320	-3.239	-2.520
84	5.46	5.41	5.56	6.21				-3.366	-3.385	-3.266	-2.585					
85	5.47	5.46	5.57	6.26	-2.929	-3.359		-2.829	-2.559							
80MHz	0.11	0	-1.70	0.80	6465	103	SU	--	13.72	13.68	12.02	14.48	-3.780	-3.888	-5.370	-2.978
							MRU106+26T	82	5.47	5.45	3.77	6.25	-3.177	-3.235	-4.877	-2.435
								85	5.47	5.45	3.77	6.25	-3.437	-3.238	-5.137	-2.438
								89	5.48	5.41	3.78	6.21	-3.375	-3.505	-5.075	-2.705
160MHz	0.21	0	0.10	0.80	6505 (Straddle)	111	SU	--	15.91	15.88	16.01	16.68	-4.677	-4.788	-4.367	-3.778
							52T	37	1.46	1.45	1.56	2.25	-3.780	-3.774	-3.680	-2.974
								52	1.43	1.41	1.53	2.21	-3.639	-3.852	-3.539	-3.052
								S52	1.46	1.42	1.56	2.22	-3.659	-3.776	-3.559	-2.976
							MRU106+26T	82	5.43	5.43	5.53	6.23	-3.327	-3.467	-3.227	-2.667
								89	5.47	5.48	5.57	6.28	-3.377	-3.607	-3.277	-2.807
								89(sb1)	5.46	5.41	5.56	6.21	-3.307	-3.276	-3.207	-2.476

Note:

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

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

40MHz - Mid Channel – SU
(UNII-6) – Ant 240MHz - Mid Channel – 242T-RU62
(UNII-6) – Ant 240MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 2

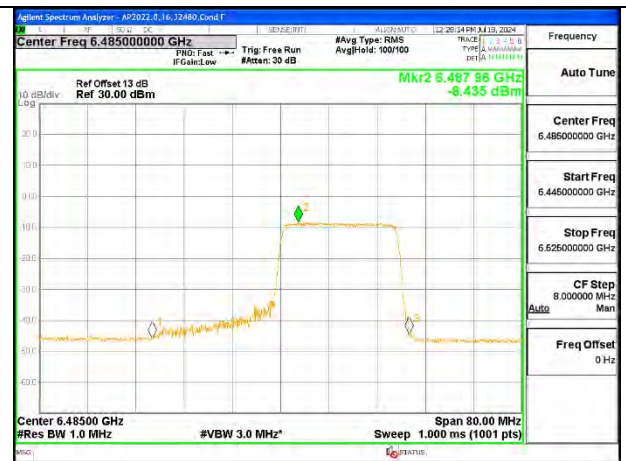
9.4.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND – LOW POWER

LP CDD UNII-6 (MIMO)	Duty Factor (dB)		Un- Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)	
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2		
20MHz	0	0	-0.27	2.65	6435	97	SU	--	2.94	2.96	5.69	-8.571	-8.260	-2.752	
							106T	53	-0.06	-0.04	2.69	-7.828	-7.747	-2.127	
								54	-0.03	-0.04	2.71	-7.785	-7.745	-2.105	
								MRU106+26T	82	0.73	0.73	3.47	-8.021	-8.028	-2.364
									83	0.74	0.71	3.47	-8.006	-8.058	-2.372
					6475	105	SU	--	2.91	2.91	5.65	-8.383	-8.383	-2.723	
							106T	53	-0.03	-0.10	2.68	-7.777	-7.852	-2.154	
								54	-0.13	-0.02	2.67	-7.538	-7.910	-2.060	
								MRU106+26T	82	0.74	0.74	3.48	-8.095	-8.104	-2.439
									83	0.71	0.73	3.46	-8.169	-7.867	-2.355
					6515	113	SU	--	2.98	2.95	5.71	-8.457	-8.528	-2.832	
							106T	53	-0.03	-0.02	2.72	-7.781	-7.800	-2.130	
								54	-0.04	-0.05	2.70	-7.748	-7.993	-2.208	
								MRU106+26T	82	0.72	0.72	3.46	-7.894	-8.032	-2.302
									83	0.72	0.74	3.47	-8.176	-7.836	-2.342
40MHz	0	0	-0.27	2.65	6445	99	SU	--	5.87	5.97	8.66	-8.486	-8.238	-2.700	
							242T	61	2.98	2.95	5.71	-8.250	-8.335	-2.632	
								62	2.93	2.95	5.68	-8.449	-8.470	-2.799	
								MRU106+26T	82	0.74	0.71	3.47	-8.133	-8.126	-2.469
									84	0.73	0.71	3.46	-8.225	-7.947	-2.423
									85	0.71	0.73	3.46	-8.284	-8.076	-2.518
					6485	107	SU	--	5.92	5.97	8.69	-8.366	-8.236	-2.640	
							242T	61	2.91	2.98	5.69	-8.202	-8.500	-2.688	
								62	2.91	2.91	5.65	-8.435	-8.424	-2.769	
								MRU106+26T	82	0.69	0.72	3.45	-8.259	-8.098	-2.517
									84	0.72	0.72	3.46	-7.933	-7.999	-2.306
									85	0.70	0.71	3.45	-8.315	-7.984	-2.486
			6525 (Straddle)	115	SU	--	5.42	5.48	8.92	-9.107	-8.937	-2.541			
					242T	61	2.47	2.48	5.95	-8.855	-8.773	-2.334			
						62	2.46	2.46	5.93	-8.733	-8.723	-2.248			
						MRU106+26T	82	0.24	0.22	3.70	-8.731	-8.630	-2.200		
							84	0.22	0.24	3.70	-8.713	-8.594	-2.173		
							85	0.23	0.23	3.70	-8.507	-8.749	-2.146		
80MHz	0.11	0	-0.27	2.65	6465	103	SU	--	8.98	8.91	11.69	-8.786	-8.735	-2.990	
							MRU106+26T	82	0.71	0.73	3.46	-8.576	-8.404	-2.829	
								85	0.69	0.69	3.43	-8.647	-8.641	-2.984	
								89	0.67	0.69	3.42	-8.711	-8.647	-3.019	
								--	10.70	10.72	14.18	-9.762	-9.712	-3.047	
160MHz	0.21	0	0.46	3.47	6505 (Straddle)	111	SU	--	10.70	10.72	14.18	-9.762	-9.712	-3.047	
							52T	37	-3.84	-3.79	-0.34	-8.960	-9.100	-2.549	
								52	-3.84	-3.85	-0.37	-9.213	-9.193	-2.723	
								552	-3.79	-3.82	-0.33	-9.094	-9.137	-2.635	
							MRU106+26T	82	0.24	0.20	3.69	-9.080	-9.211	-2.665	
								89	0.22	0.18	3.67	-9.022	-8.984	-2.523	
								89(sb1)	0.23	0.19	3.68	-9.014	-9.370	-2.708	

Note:

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

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

40MHz - Mid Channel – SU
(UNII-6) – Ant 140MHz - Mid Channel – 242T-RU62
(UNII-6) – Ant 140MHz - Mid Channel – MRU106+26T-RU85
(UNII-6) – Ant 1

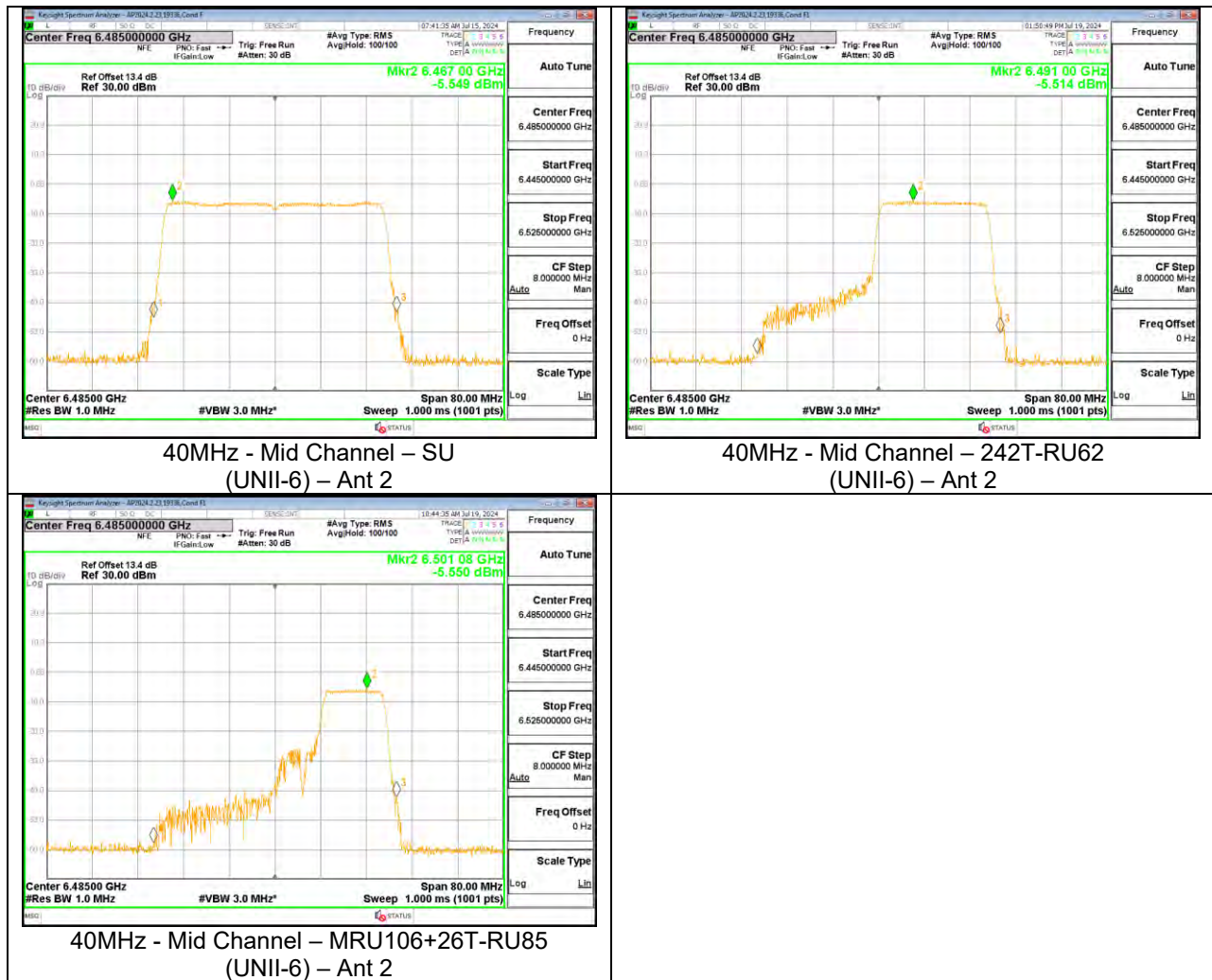
9.4.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND – LOW POWER

LP SDM UNII-6 (MIMO)	Duty Factor (dB)		Un- Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.27	2.65	6435	97	SU	--	5.93	5.92	8.67	-5.450	-5.440	-2.705
							106T	53	2.98	2.90	5.68	-5.064	-5.485	-2.529
								54	2.97	2.92	5.69	-5.171	-5.403	-2.545
							MRU106+26T	82	3.66	3.66	6.40	-5.763	-5.741	-3.012
								83	3.73	3.69	6.45	-5.525	-5.670	-2.857
					6475	105	SU	--	5.90	5.92	8.65	-5.585	-5.478	-2.791
							106T	53	2.95	2.98	5.71	-5.256	-5.193	-2.484
								54	2.97	2.91	5.68	-5.162	-5.368	-2.523
							MRU106+26T	82	3.72	3.70	6.45	-5.560	-5.616	-2.848
								83	3.72	3.70	6.45	-5.561	-5.623	-2.852
					6515	113	SU	--	5.90	5.91	8.65	-5.573	-5.539	-2.816
							106T	53	2.90	2.94	5.66	-5.486	-5.304	-2.654
								54	2.94	2.92	5.67	-5.304	-5.391	-2.607
							MRU106+26T	82	3.69	3.73	6.45	-5.677	-5.530	-2.863
40MHz	0	0	-0.27	2.65	6445	99	SU	--	8.93	8.96	11.69	-5.577	-5.351	-2.722
							242T	61	5.93	5.93	8.67	-5.759	-5.791	-3.035
								62	5.92	5.93	8.67	-5.815	-5.795	-3.065
							MRU106+26T	82	3.72	3.69	6.45	-5.341	-5.467	-2.663
								84	3.66	3.66	6.40	-5.539	-5.546	-2.802
								85	3.65	3.65	6.39	-5.589	-5.572	-2.840
					6485	107	SU	--	8.96	8.94	11.69	-5.431	-5.549	-2.749
							242T	61	5.90	5.90	8.64	-5.893	-5.906	-3.159
								62	5.94	5.95	8.69	-5.746	-5.514	-2.888
							MRU106+26T	82	3.69	3.73	6.45	-5.438	-5.298	-2.627
								84	3.65	3.70	6.42	-5.578	-5.453	-2.775
								85	3.71	3.66	6.43	-5.355	-5.550	-2.711
			0.46	3.47	6525 (Straddle)	115	SU	--	8.45	8.44	11.92	-6.028	-5.869	-2.477
							242T	61	5.46	5.40	8.90	-6.253	-6.480	-2.895
								62	5.44	5.43	8.91	-6.630	-6.385	-3.035
							MRU106+26T	82	3.18	3.18	6.65	-6.114	-6.138	-2.656
								84	3.15	3.16	6.63	-6.267	-6.223	-2.775
								85	3.15	3.19	6.64	-6.264	-6.107	-2.714
80MHz	0.11	0	-0.27	2.65	6465	103	SU	--	11.92	11.88	14.64	-6.084	-5.642	-3.007
							MRU106+26T	82	3.74	3.74	6.48	-5.708	-5.678	-2.953
								85	3.67	3.71	6.43	-5.820	-5.789	-3.064
								89	3.67	3.71	6.43	-5.830	-5.772	-3.061
160MHz	0.2	0	0.46	3.47	6505 (Straddle)	111	SU	--	13.70	13.70	17.17	-6.778	-6.778	-3.108
							52T	37	-0.76	-0.84	2.67	-6.230	-6.189	-2.739
								52	-0.78	-0.82	2.67	-6.188	-6.146	-2.697
								S52	-0.81	-0.76	2.69	-6.114	-6.237	-2.705
							MRU106+26T	82	3.74	3.72	7.20	-5.632	-5.580	-2.136
								89	3.65	3.70	7.15	-5.723	-5.729	-2.256
							89(sb1)		3.66	3.70	7.15	-5.821	-5.481	-2.177

Note:

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

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



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

LP UNII-7 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)				
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2			
20MHz	0	0	0.10	0.30	6535	117	SU	--	8.23	8.19	8.33	8.49	-3.480	-3.294	-3.380	-2.994			
							106T	53	5.24	5.24	5.34	5.54	-3.121	-3.305	-3.021	-3.005			
								54	5.20	5.21	5.30	5.51	-3.317	-3.297	-3.217	-2.997			
							MRU106+26T	82	5.94	5.98	6.04	6.28	-2.118	-2.281	-2.018	-1.981			
								83	5.93	5.97	6.03	6.27	-2.249	-2.230	-2.149	-1.930			
							SU	--	8.16	8.17	8.26	8.47	-3.365	-3.380	-3.265	-3.080			
			106T	53	5.18	5.21		5.28	5.51	-3.223	-3.399	-3.123	-3.099						
				54	5.17	5.16	5.27	5.46	-3.217	-3.079	-3.117	-2.779							
			82		5.97	5.96	6.07	6.26	-2.067	-2.049	-1.967	-1.749							
				MRU106+26T	83	5.98	5.95	6.08	6.25	-1.982	-1.872	-1.882	-1.572						
			0.70		0.30	6875 (Straddle)	185	SU	--	7.97	7.97	8.67	8.27	-3.675	-3.782	-2.975	-3.482		
				106T				53	4.96	4.92	5.66	5.22	-3.482	-3.663	-2.782	-3.363			
								54	4.95	4.95	5.65	5.25	-3.460	-3.510	-2.760	-3.210			
				82				5.93	5.89	6.63	6.19	-2.204	-2.205	-1.504	-1.905				
								83	5.92	5.95	6.62	6.25	-2.185	-2.188	-1.485	-1.888			
				40MHz				0	0	0.10	0.30	6565	123	SU	--	11.24	11.23	11.34	11.53
			242T		61	8.16	8.23							8.26	8.53	-2.766	-2.862	-2.666	-2.562
62	8.23	8.24			8.33	8.54	-2.671							-2.570	-2.571	-2.270			
MRU106+26T	82	5.91	5.89		6.01	6.19	-2.521							-2.677	-2.421	-2.377			
	84	5.92	5.92		6.02	6.22	-2.506							-2.613	-2.406	-2.313			
85	5.98	5.89	6.08		6.19	-2.654	-2.502							-2.554	-2.202				
0.10	0.30	6685	147		SU	--	11.19			11.19	11.29	11.49	-3.309	-3.148	-3.209	-2.848			
					242T	61	8.22			8.24	8.32	8.54	-2.782	-2.634	-2.682	-2.334			
						62	8.18			8.21	8.28	8.51	-2.596	-2.750	-2.496	-2.450			
					MRU106+26T	82	5.89			5.96	5.99	6.26	-2.201	-2.246	-2.101	-1.946			
						84	5.89			5.96	5.99	6.26	-2.285	-2.467	-2.185	-2.167			
				85	5.91	5.93	6.01	6.23	-2.440	-2.329	-2.340	-2.029							
0.70	0.30	6845	179	SU	--	11.17	11.23	11.27	11.53	-3.301	-3.385	-3.201	-3.085						
				242T	61	8.23	8.23	8.33	8.53	-2.990	-2.788	-2.890	-2.488						
					62	8.20	8.23	8.30	8.53	-2.805	-2.501	-2.705	-2.201						
				MRU106+26T	82	5.93	5.96	6.03	6.26	-2.320	-2.506	-2.220	-2.206						
					84	5.92	5.96	6.02	6.26	-2.670	-2.330	-2.570	-2.030						
				85	5.98	5.91	6.08	6.21	-2.506	-2.482	-2.406	-2.182							
80MHz	0.11	0	0.10	0.80	6545 (Straddle)	119	SU	--	13.70	13.71	13.80	14.51	-4.020	-4.035	-3.810	-3.125			
							MRU106+26T	82	5.45	5.46	5.55	6.26	-3.922	-3.956	-3.822	-3.156			
								85	5.45	5.41	5.55	6.21	-3.882	-3.855	-3.782	-3.055			
							MRU106+26T	89	5.46	5.42	5.56	6.22	-3.812	-3.811	-3.712	-3.011			
								--	14.23	14.19	14.33	14.49	-3.240	-3.406	-3.030	-2.996			
			0.10	0.30	6705	151	MRU106+26T	82	5.91	5.94	6.01	6.24	-3.201	-3.390	-3.101	-3.090			
								85	5.96	5.91	6.06	6.21	-3.051	-3.313	-2.951	-3.013			
							MRU106+26T	89	5.97	5.89	6.07	6.19	-3.095	-3.227	-2.995	-2.927			
								SU	--	13.95	13.96	14.65	14.26	-3.618	-3.706	-2.808	-3.296		
			0.70	0.30	6865 (Straddle)	183	MRU106+26T	82	5.74	5.72	6.44	6.02	-3.682	-3.532	-2.982	-3.232			
								85	5.69	5.73	6.39	6.03	-3.649	-3.602	-2.949	-3.302			
							MRU106+26T	89	5.70	5.73	6.40	6.03	-3.675	-3.653	-2.975	-3.353			
160MHz	0.21	0	0.10	0.30	6665	143	SU	--	16.42	16.44	16.52	16.74	-2.720	-2.869	-2.410	-2.359			
							52T	37	1.91	1.94	2.01	2.24	-3.171	-3.040	-3.071	-2.740			
								52	1.97	1.96	2.07	2.26	-3.205	-3.007	-3.105	-2.707			
							52T	S52	1.95	1.91	2.05	2.21	-3.147	-3.201	-3.047	-2.901			
								SU	--	16.22	16.23	16.92	16.53	-3.013	-3.003	-2.103	-2.493		
			0.70	0.30	6825 (Straddle)	175	52T	37	1.68	1.70	2.38	2.00	-3.467	-3.407	-2.767	-3.107			
								52	1.72	1.69	2.42	1.99	-3.559	-3.523	-2.859	-3.223			
							52T	S52	1.73	1.74	2.43	2.04	-3.411	-3.424	-2.711	-3.124			
								S52	1.73	1.74	2.43	2.04	-3.411	-3.424	-2.711	-3.124			

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 180MHz - Mid Channel – MRU106+26T-RU82
(UNII-7) – Ant 1

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

LP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un- Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	0.20	3.21	6535	117	SU	--	2.41	2.46	5.65	-8.674	-8.955	-2.592
							106T	53	-0.60	-0.55	2.64	-8.535	-8.787	-2.439
								54	-0.51	-0.57	2.67	-8.406	-8.860	-2.407
							MRU106+26T	82	0.17	0.18	3.39	-7.632	-7.469	-1.329
								83	0.22	0.18	3.41	-7.515	-7.571	-1.323
							SU	--	2.42	2.46	5.65	-8.886	-8.663	-2.553
			0.50	3.51	6715	153	106T	53	-0.59	-0.61	2.61	-8.505	-8.628	-2.346
								54	-0.57	-0.55	2.65	-8.570	-8.693	-2.411
							MRU106+26T	82	0.23	0.17	3.41	-7.539	-7.682	-1.390
								83	0.24	0.22	3.44	-7.636	-7.635	-1.415
							SU	--	2.40	2.41	5.92	-9.091	-9.026	-2.538
							106T	53	-0.61	-0.57	2.92	-8.640	-8.549	-2.074
								54	-0.56	-0.58	2.94	-8.651	-8.665	-2.138
							MRU106+26T	82	0.21	0.21	3.72	-7.662	-7.392	-1.005
								83	0.21	0.21	3.72	-7.531	-7.613	-1.052
			0.20	3.21	6565	123	SU	--	5.46	5.43	8.66	-8.889	-9.082	-2.764
							242T	61	2.45	2.48	5.68	-9.247	-9.357	-3.081
								62	2.41	2.45	5.64	-9.383	-9.389	-3.166
							MRU106+26T	82	0.19	0.21	3.41	-7.734	-7.742	-1.518
								84	0.18	0.22	3.41	-7.610	-7.817	-1.492
								85	0.22	0.24	3.44	-7.838	-7.695	-1.546
					6685	147	SU	--	5.43	5.47	8.66	-9.222	-9.246	-3.014
							242T	61	2.47	2.46	5.68	-9.445	-9.305	-3.154
								62	2.46	2.48	5.68	-9.210	-9.208	-2.989
							MRU106+26T	82	0.23	0.22	3.44	-7.837	-7.859	-1.628
								84	0.16	0.22	3.40	-7.945	-7.643	-1.571
								85	0.24	0.24	3.45	-7.805	-7.652	-1.508
					6845	179	SU	--	5.45	5.48	8.68	-9.163	-9.145	-2.934
							242T	61	2.42	2.47	5.66	-9.390	-9.579	-3.263
								62	2.46	2.46	5.67	-9.447	-9.402	-3.204
							MRU106+26T	82	0.21	0.16	3.40	-7.986	-7.699	-1.620
								84	0.17	0.17	3.38	-7.781	-7.723	-1.532
								85	0.16	0.18	3.38	-7.508	-7.872	-1.466
80MHz	0.11	0	0.46	3.47	6545 (Straddle)	119	SU	--	8.42	8.45	11.91	-9.110	-8.914	-2.420
							MRU106+26T	82	0.18	0.15	3.64	-8.649	-8.336	-2.009
								85	0.21	0.17	3.66	-8.407	-8.481	-1.964
								89	0.22	0.21	3.69	-8.547	-8.880	-2.230
			0.20	3.21	6705	151	SU	--	8.43	8.42	11.64	-9.283	-9.016	-2.817
							MRU106+26T	82	0.21	0.18	3.41	-8.502	-8.563	-2.312
								85	0.19	0.15	3.38	-8.641	-8.608	-2.404
								89	0.17	0.22	3.41	-8.496	-8.706	-2.379
			0.50	3.51	6865 (Straddle)	183	SU	--	8.44	8.46	11.96	-9.108	-9.036	-2.442
							MRU106+26T	82	0.21	0.19	3.71	-8.762	-8.508	-2.113
								85	0.19	0.24	3.73	-8.699	-8.723	-2.191
								89	0.18	0.23	3.72	-8.369	-8.796	-2.057
160MHz	0.21	0	0.20	3.21	6665	143	SU	--	10.73	10.68	13.92	-8.779	-8.610	-2.263
							52T	37	-3.79	-3.82	-0.59	-9.478	-9.251	-3.143
								52	-3.82	-3.83	-0.61	-9.561	-9.403	-3.261
								552	-3.83	-3.83	-0.62	-9.351	-9.233	-3.071
			0.50	3.51	6825 (Straddle)	175	SU	--	10.71	10.73	14.23	-8.598	-8.433	-1.784
							52T	37	-3.82	-3.84	-0.32	-9.365	-9.457	-2.890
								52	-3.83	-3.85	-0.33	-9.687	-9.669	-3.158
								552	-3.84	-3.77	-0.29	-9.375	-9.664	-2.997

Note:

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

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



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

80MHz - Mid Channel – MRU106+26T-RU82
(UNII-7) – Ant 2

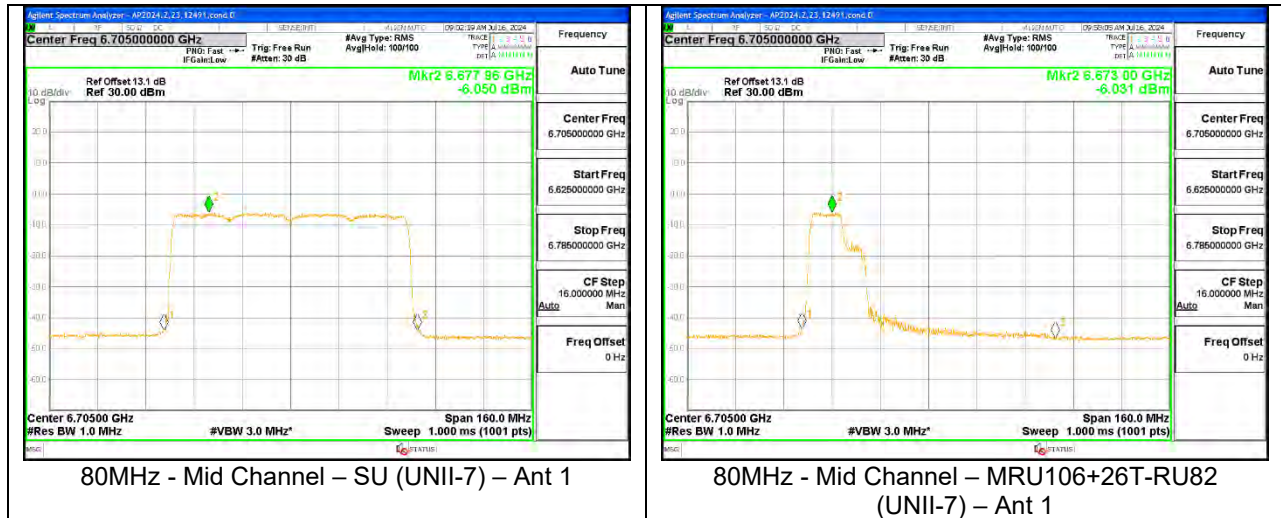
9.4.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND – LOW POWER

LP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un- Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	0.20	3.21	6535	117	SU	--	5.41	5.46	8.65	-5.978	-5.849	-2.703
							106T	53	2.45	2.41	5.64	-5.578	-5.595	-2.376
							MRU106+26T	54	2.47	2.45	5.67	-5.636	-5.684	-2.450
								82	3.19	3.15	6.38	-5.709	-5.846	-2.567
								83	3.19	3.19	6.40	-5.906	-6.037	-2.761
							SU	--	5.43	5.41	8.63	-6.005	-6.231	-2.906
			0.50	3.51	6715	153	106T	53	2.41	2.46	5.65	-5.347	-5.376	-2.151
							MRU106+26T	54	2.42	2.41	5.63	-5.435	-5.779	-2.393
								82	3.16	3.21	6.40	-6.002	-5.886	-2.733
								83	3.23	3.21	6.43	-5.678	-5.626	-2.442
							SU	--	5.45	5.43	8.95	-6.250	-6.026	-2.626
							106T	53	2.45	2.45	5.96	-5.680	-5.622	-2.141
							MRU106+26T	54	2.44	2.45	5.96	-5.466	-5.412	-1.929
								82	3.23	3.18	6.72	-6.021	-5.875	-2.437
					6875 (Straddle)	185	MRU106+26T	83	3.16	3.23	6.71	-6.192	-5.967	-2.568
								--	8.42	8.45	11.65	-6.008	-6.061	-2.824
							242T	61	5.46	5.47	8.68	-5.940	-5.805	-2.662
							MRU106+26T	62	5.41	5.41	8.62	-6.015	-6.037	-2.816
								82	3.23	3.20	6.43	-5.915	-6.070	-2.782
								84	3.23	3.19	6.42	-6.133	-6.244	-2.978
40MHz	0	0	0.20	3.21	6565	123	MRU106+26T	85	3.16	3.23	6.41	-6.186	-6.010	-2.887
								--	8.41	8.43	11.63	-6.074	-6.355	-3.002
							242T	61	5.42	5.42	8.63	-5.948	-6.058	-2.792
							MRU106+26T	62	5.45	5.43	8.65	-6.038	-6.031	-2.824
								82	3.21	3.18	6.41	-6.058	-6.205	-2.921
								84	3.22	3.18	6.41	-6.128	-6.088	-2.898
			0.20	3.21	6685	147	MRU106+26T	85	3.23	3.19	6.42	-6.086	-6.216	-2.940
								--	8.48	8.46	11.68	-6.312	-6.349	-3.120
							242T	61	5.45	5.45	8.66	-6.247	-6.166	-2.996
							MRU106+26T	62	5.46	5.41	8.65	-6.275	-6.261	-3.058
								82	3.23	3.23	6.44	-6.174	-6.052	-2.902
								84	3.19	3.23	6.42	-6.006	-6.216	-2.899
			0.50	3.51	6845	179	MRU106+26T	85	3.21	3.18	6.41	-6.185	-6.165	-2.965
								--	11.47	11.47	14.94	-5.938	-5.813	-2.295
							MRU106+26T	82	3.22	3.18	6.67	-5.979	-5.899	-2.469
								85	3.17	3.21	6.66	-6.080	-5.942	-2.540
							MRU106+26T	89	3.16	3.23	6.67	-6.357	-5.893	-2.649
								--	11.45	11.45	14.66	-6.050	-5.810	-2.608
80MHz	0.11	0	0.46	3.47	6545 (Straddle)	119	MRU106+26T	82	3.20	3.23	6.43	-6.031	-6.297	-2.952
								85	3.23	3.19	6.42	-6.212	-6.219	-3.005
			0.20	3.21	6705	151	MRU106+26T	89	3.23	3.17	6.41	-6.085	-6.094	-2.879
								--	11.45	11.41	14.94	-6.207	-5.957	-2.460
							MRU106+26T	82	3.15	3.22	6.70	-6.234	-6.160	-2.687
								85	3.18	3.16	6.68	-6.171	-6.380	-2.764
			0.50	3.51	6865 (Straddle)	183	MRU106+26T	89	3.16	3.18	6.68	-6.277	-6.212	-2.734
								--	13.72	13.67	16.91	-6.507	-6.264	-2.974
							MRU106+26T	37	-0.82	-0.82	2.39	-6.622	-6.502	-3.351
								S52	-0.81	-0.79	2.41	-6.510	-6.408	-3.248
							MRU106+26T	--	13.70	13.68	17.20	-6.567	-6.468	-2.807
								37	-0.84	-0.85	2.67	-6.664	-6.509	-3.076
160MHz	0.2	0	0.20	3.21	6665	143	MRU106+26T	S52	-0.88	-0.84	2.65	-6.734	-6.556	-3.134
								--	13.70	13.68	17.20	-6.567	-6.468	-2.807
							MRU106+26T	37	-0.84	-0.85	2.67	-6.664	-6.509	-3.076
								S52	-0.88	-0.84	2.65	-6.734	-6.556	-3.134
							MRU106+26T	37	-0.84	-0.85	2.67	-6.664	-6.509	-3.076
								S52	-0.88	-0.84	2.65	-6.734	-6.556	-3.134

Note:

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

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



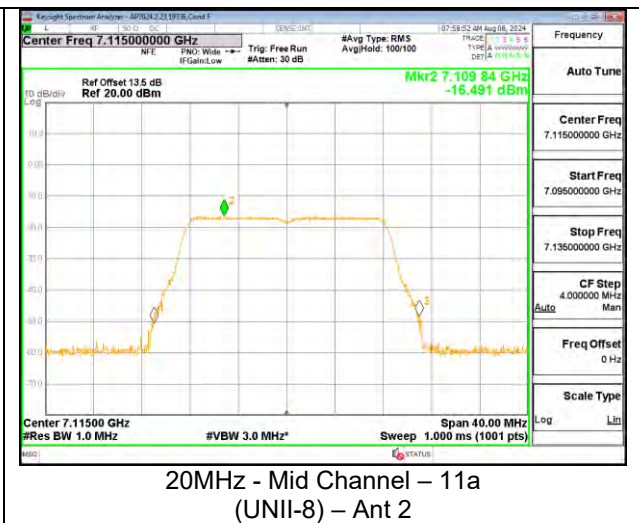
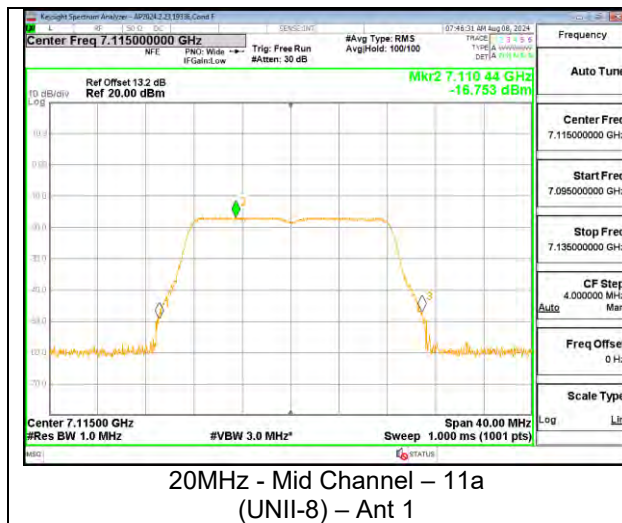
9.4.10. 802.11a SISO MODE IN THE UNII-8 BAND – LOW POWER

LP UNII-8 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)	
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
20MHz	0	0	0.70	-1.40	7115	233	--	--	-5.04	-5.08	-4.34	-6.48	-16.753	-16.491	-16.053	-17.891

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 SISO MODE IN THE UNII-8 BAND – LOW POWER

LP UNII-8 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)						
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2					
20MHz	0	0	0.70	-1.40	6895	189	SU	--	7.95	7.91	8.65	6.51	-3.296	-3.441	-2.596	-4.841					
							MRU106+26T	82	5.68	5.73	6.38	4.33	-3.663	-3.700	-2.963	-5.100					
								83	5.73	5.69	6.43	4.29	-3.505	-3.305	-2.805	-4.705					
					6995	209	SU	--	7.90	7.89	8.60	6.49	-3.329	-3.437	-2.629	-4.837					
							MRU106+26T	82	5.69	5.68	6.39	4.28	-3.449	-3.448	-2.749	-4.848					
								83	5.66	5.66	6.36	4.26	-3.488	-3.394	-2.788	-4.794					
					7095	229	SU	--	7.96	7.91	8.66	6.51	-3.514	-3.518	-2.814	-4.918					
							MRU106+26T	82	5.72	5.71	6.42	4.31	-3.442	-3.634	-2.742	-5.034					
								83	5.71	5.72	6.41	4.32	-3.671	-3.704	-2.971	-5.104					
					7115	233	SU	--	-6.06	-6.09	-5.36	-7.49	-17.850	-17.965	-17.150	-19.365					
SU	--	10.93	10.93	11.63			11.23	-3.446	-3.416	-2.746	-3.116										
40MHz	0	0	0.70	0.30	6885 (Straddle)	187	MRU106+26T	82	5.68	5.72	6.38	6.02	-2.869	-3.154	-2.169	-2.854					
								84	5.69	5.68	6.39	5.98	-2.916	-3.008	-2.216	-2.708					
							85	5.72	5.72	6.42	6.02	-3.083	-3.125	-2.383	-2.825						
							SU	--	10.96	10.93	11.66	9.53	-3.427	-3.599	-2.727	-4.999					
							MRU106+26T	82	5.67	5.74	6.37	4.34	-2.818	-3.227	-2.118	-4.627					
					84	5.73		5.71	6.43	4.31	-2.933	-3.281	-2.233	-4.681							
					85	5.68		5.69	6.38	4.29	-3.199	-3.295	-2.499	-4.695							
			7085	227	SU	--	10.89	10.97	11.59	9.57	-3.347	-3.474	-2.647	-4.874							
					MRU106+26T	82	5.68	5.73	6.38	4.33	-2.916	-3.199	-2.216	-4.599							
						84	5.69	5.68	6.39	4.28	-3.062	-3.056	-2.362	-4.456							
					85	5.68	5.71	6.38	4.31	-3.255	-3.063	-2.555	-4.463								
					80MHz	0.11	0	0.70	-1.40	6945	199	SU	--	13.93	13.94	14.63	12.54	-3.551	-3.583	-2.741	-4.873
												MRU106+26T	82	5.68	5.71	6.38	4.31	-3.853	-3.794	-3.153	-5.194
85	5.68	5.71	6.38	4.31									-3.943	-3.589	-3.243	-4.989					
89	5.67	5.71	6.37	4.31									-3.682	-3.978	-2.982	-5.378					
7025	215	SU	--	13.91				13.97	14.61	12.57	-3.454	-3.737	-2.644	-5.027							
		MRU106+26T	82	5.73				5.73	6.43	4.33	-3.825	-3.589	-3.125	-4.989							
			85	5.69				5.69	6.39	4.29	-3.766	-3.687	-3.066	-5.087							
			89	5.73				5.74	6.43	4.34	-3.767	-3.825	-3.067	-5.225							
160MHz	0.21	0	0.70	-1.40	6985	207	SU	--	16.22	16.23	16.92	14.83	-3.500	-3.212	-2.590	-4.402					
							MRU106+26T	82	5.73	5.70	6.43	4.30	-3.208	-3.162	-2.508	-4.562					
								89	5.71	5.72	6.41	4.32	-3.431	-3.589	-2.731	-4.989					
								89 (sb1)	5.71	5.68	6.41	4.28	-3.115	-3.381	-2.415	-4.781					

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)

160MHz - Mid Channel – SU
(UNII-8) – Ant 2160MHz - Mid Channel – MRU106+26T-RU 89(sb1)
(UNII-8) – Ant 2

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

LP CDD UNII-8 (MIMO)	Duty Factor (dB)		Un- Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.22	2.72	6895	189	SU	--	2.89	2.93	5.70	-8.745	-8.864	-3.074
							MRU106+26T	82	0.73	0.69	3.50	-7.334	-7.051	-1.460
								83	0.72	0.66	3.48	-7.240	-7.203	-1.491
					6995	209	SU	--	2.91	2.93	5.71	-8.481	-8.409	-2.715
							MRU106+26T	82	0.71	0.72	3.51	-6.945	-6.924	-1.204
								83	0.66	0.72	3.48	-6.947	-6.959	-1.223
					7095	229	SU	--	2.91	2.90	5.70	-8.721	-8.785	-3.023
							MRU106+26T	82	0.68	0.68	3.47	-7.218	-7.042	-1.399
								83	0.71	0.71	3.50	-7.107	-7.065	-1.356
					7115	233	SU	--	-5.55	-5.52	-2.74	-17.083	-17.002	-11.312
							MRU106+26T	82	0.22	0.22	3.73	-7.907	-7.706	-1.285
								84	0.19	0.24	3.73	-7.818	-7.874	-1.326
-0.22	2.72	6965	203	SU	--	5.96	5.93	8.74	-8.404	-8.582	-2.762			
				MRU106+26T	82	0.72	0.68	3.49	-7.421	-7.532	-1.746			
					84	0.73	0.72	3.52	-7.302	-7.661	-1.747			
7085	227	85	0.73	0.68	3.50	-7.383	-7.336	-1.629						
		SU	--	5.94	5.98	8.75	-8.490	-8.542	-2.786					
		MRU106+26T	82	0.71	0.71	3.50	-7.540	-7.546	-1.813					
			84	0.69	0.73	3.50	-7.686	-7.353	-1.786					
		85	0.67	0.72	3.49	-7.570	-7.504	-1.807						
MRU106+26T	82	0.72	0.68	3.49	-7.442	-7.699	-1.838							
	85	0.67	0.73	3.49	-7.558	-7.561	-1.829							
-0.22	2.72	7025	215	SU	--	8.98	8.93	11.75	-8.586	-8.872	-2.886			
				MRU106+26T	82	0.73	0.72	3.52	-7.295	-7.301	-1.568			
					85	0.73	0.72	3.52	-7.273	-7.343	-1.578			
				89	0.69	0.72	3.50	-7.473	-7.699	-1.854				
				MRU106+26T	82	0.69	0.74	3.51	-7.874	-7.909	-2.161			
89	0.74	0.71	3.52		-7.850	-8.034	-2.211							
89 (sb1)	0.72	0.73	3.52	-8.095	-7.909	-2.271								

Note:

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

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

160MHz - Mid Channel – SU
(UNII-8) – Ant 1160MHz - Mid Channel – MRU106+26T-RU 89(sb1)
(UNII-8) – Ant 1

9.4.13. 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 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.22	2.72	6895	189	SU	--	5.67	5.70	8.48	-6.048	-6.059	-3.263
							MRU106+26T	82	3.39	3.46	6.22	-5.981	-6.005	-3.203
								83	3.45	3.41	6.22	-5.988	-5.796	-3.101
					6995	209	SU	--	5.68	5.67	8.47	-5.821	-5.830	-3.035
							MRU106+26T	82	3.45	3.41	6.22	-5.887	-5.808	-3.057
								83	3.44	3.43	6.23	-5.826	-5.841	-3.043
					7095	229	SU	--	5.72	5.73	8.52	-6.048	-5.960	-3.213
							MRU106+26T	82	3.45	3.41	6.22	-6.020	-5.854	-3.146
								83	3.47	3.46	6.26	-5.904	-5.831	-3.077
					7115	233	SU	--	-5.54	-5.53	-2.74	-17.066	-17.028	-14.257
							MRU106+26T	82	3.19	3.19	6.70	-6.548	-6.709	-3.117
								84	3.16	3.18	6.68	-6.736	-6.539	-3.126
85	3.23	3.17	6.71	-6.626	-6.599	-3.102								
6965	203	SU	--	8.70	8.71	11.50	-5.873	-5.823	-3.058					
		MRU106+26T	82	3.45	3.48	6.26	-6.122	-6.022	-3.281					
			84	3.41	3.42	6.21	-6.355	-6.085	-3.428					
			85	3.48	3.45	6.26	-5.991	-5.932	-3.171					
-0.22	2.72	7085	227	SU	--	8.74	8.66	11.49	-6.112	-5.731	-3.127			
				MRU106+26T	82	3.45	3.42	6.23	-6.297	-6.243	-3.480			
					84	3.48	3.43	6.25	-6.269	-6.184	-3.436			
					85	3.46	3.42	6.23	-6.203	-6.021	-3.321			
		MRU106+26T	82	3.45	3.46	6.25	-6.140	-6.210	-3.385					
			85	3.46	3.43	6.24	-5.836	-6.236	-3.241					
89	3.46		3.45	6.25	-5.968	-5.821	-3.104							
-0.22	2.72	7025	215	SU	--	11.67	11.68	14.47	-5.306	-5.541	-2.522			
				MRU106+26T	82	3.41	3.48	6.24	-5.909	-6.061	-3.194			
					85	3.41	3.44	6.22	-5.803	-5.826	-3.024			
					89	3.43	3.44	6.23	-5.881	-5.911	-3.106			
		MRU106+26T	82	3.46	3.42	6.23	-5.874	-5.784	-3.038					
			89	3.41	3.45	6.22	-6.157	-6.143	-3.360					
89 (sb1)	3.46		3.46	6.25	-5.850	-5.939	-3.104							

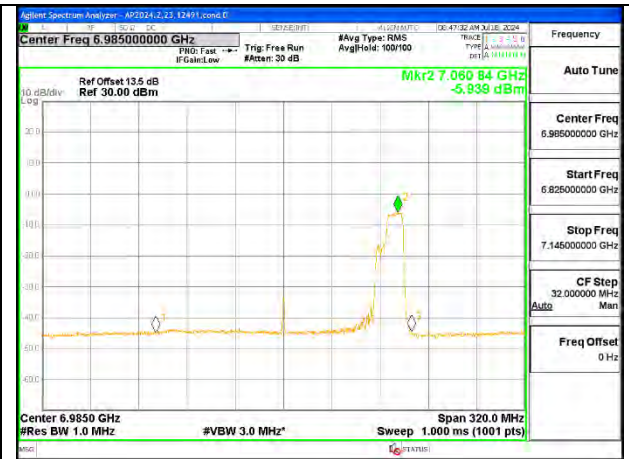
Note:

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

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



160MHz - Mid Channel – SU (UNII-8) – Ant 2

160MHz - Mid Channel – MRU106+26T-RU 89(sb1)
(UNII-8) – Ant 2

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)	-0.20	-0.20	-0.20	2.81
	Sub-band 2 (6115 - 6255)	-1.20	0.40	-0.33	2.65
	Sub-band 3 (6275 - 6415)	-2.00	0.80	-0.38	2.52
6425 - 6525 UNII-6	N/A	-1.70	0.80	-0.27	2.65
UNII-6/7 (Straddle Channel)	N/A	0.10	0.80	0.46	3.47
6525 - 6875 UNII-7	N/A	0.10	0.30	0.20	3.21
UNII-7/8 (Straddle Channel)	N/A	0.70	0.30	0.50	3.51
6875 - 7125 UNII-8	N/A	0.70	-1.40	-0.22	2.72

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

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

Sample Calculation at UNII-5 Band:

Ant6=-0.20, Ant5=-0.20

Uncorrelated Antenna gain= $10 \log[(10^{(-0.20/10)} + 10^{(-0.20/10)})/2] = -0.20 \text{ dBi}$ Correlated Antenna gain= $10 \log[(10^{(-0.20/20)} + 10^{(-0.20/20)})^2/2] = 2.81 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel SU) Power=20.46 dBm

EIRP corr'd power = 20.46 + (-0.2) = 20.26 dBm

2Tx

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

Sample Calculation at UNII-5 Band:

Ant6(low channel SU) Power=20.45 dBm, Ant5 Power=20.43

EIRP corr'd power = $10 \cdot \log(10^{(20.45/10)} + 10^{(20.43/10)}) + (-0.2) = 23.25 \text{ dBm}$

EIRP PSD Calculation:**1Tx**

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

Sample Calculation at UNII-5 Band:

Ant6(low channel SU) PSD= 8.88 dBm/1MHz

EIRP corr'd PSD = 0 + 8.88 + (-0.2) = 8.68 dBm/1MHz

2Tx (OFDMA)

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

Sample Calculation at UNII-5 Band:

Ant6(low channel SU) PSD= 8.978 dBm/1MHz, Ant5 PSD= 9.054 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \log(10^{((0 + (8.978))/10)} + 10^{((0 + (9.054))/10)})) + (2.81) = 14.836 \text{ dBm/1MHz}$

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

SP UNII-5 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)				
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2			
20MHz	0	0	-0.20	-0.20	5955	1	SU	--	20.46	20.43	20.26	20.23	8.880	8.830	8.680	8.630			
							106T	53	16.68	16.72	16.48	16.52	8.862	8.777	8.662	8.577			
								54	16.72	16.71	16.52	16.51	8.906	8.770	8.706	8.570			
			-1.20	0.40	6175	45	SU	--	20.45	20.43	19.25	20.83	9.022	9.029	7.822	9.429			
							106T	53	16.74	16.74	15.54	17.14	8.441	8.611	7.241	9.011			
								54	16.72	16.73	15.52	17.13	8.710	8.717	7.510	9.117			
			-2.00	0.80	6415	93	SU	--	20.46	20.45	18.46	21.25	9.015	9.127	7.015	9.927			
							106T	53	16.70	16.68	14.70	17.48	8.568	8.626	6.568	9.426			
								54	16.70	16.67	14.70	17.47	8.520	8.561	6.520	9.361			
40MHz	0	0	-0.20	-0.20	5965	3	SU	--	20.42	20.47	20.22	20.27	6.011	5.926	5.811	5.726			
							242T	61	20.43	20.42	20.23	20.22	8.819	8.910	8.619	8.710			
								62	20.46	20.45	20.26	20.25	8.992	8.848	8.792	8.648			
			-1.20	0.40	6165	43	SU	--	20.45	20.45	19.25	20.85	6.020	5.899	4.820	6.299			
							242T	61	20.45	20.48	19.25	20.88	8.702	8.780	7.502	9.180			
								62	20.43	20.45	19.23	20.85	8.746	8.811	7.546	9.211			
			-2.00	0.80	6405	91	SU	--	20.48	20.48	18.48	21.28	5.909	5.816	3.909	6.616			
							242T	61	20.48	20.46	18.48	21.26	8.609	8.777	6.609	9.577			
								62	20.43	20.42	18.43	21.22	8.833	8.845	6.833	9.645			
80MHz	0.11	0	-0.20	-0.20	5985	7	SU	--	20.48	20.45	20.28	20.25	3.123	3.294	3.033	3.204			
							242T	61	20.47	20.47	20.27	20.27	8.967	8.579	8.767	8.379			
								62	20.45	20.43	20.25	20.23	8.920	8.853	8.720	8.653			
			-1.20	0.40	6145	39	SU	--	20.45	20.48	19.25	20.88	3.165	3.167	2.075	3.677			
							242T	61	20.46	20.47	19.26	20.87	8.904	8.428	7.704	8.828			
								62	20.45	20.46	19.25	20.86	8.823	8.609	7.623	9.009			
			-2.00	0.80	6385	87	SU	--	20.46	20.41	18.46	21.21	2.945	3.293	1.055	4.203			
							242T	61	20.42	20.41	18.42	21.21	8.738	8.974	6.738	9.774			
								62	20.44	20.48	18.44	21.28	8.960	8.959	6.960	9.759			
160MHz	0.21	0	-0.20	-0.20	6025	15	SU	--	19.45	19.42	19.25	19.22	-0.696	-0.730	-0.686	-0.720			
							242T	61	20.41	20.46	20.21	20.26	8.857	8.766	8.657	8.566			
								62	20.48	20.45	20.28	20.25	9.021	9.039	8.821	8.839			
			-1.20	0.40	6185	47	SU	--	19.41	19.44	18.21	19.84	-0.855	-0.655	-1.845	-0.045			
							242T	61	20.44	20.44	19.24	20.84	9.023	8.942	7.823	9.342			
								62	20.46	20.45	19.26	20.85	8.958	8.977	7.758	9.377			
			-2.00	0.80	6345	79	SU	--	20.45	20.43	19.25	20.83	8.938	8.807	7.738	9.207			
							242T	61	20.46	20.47	18.46	21.27	0.595	0.623	-1.195	1.633			
								62	20.47	20.47	18.47	21.27	8.871	8.923	6.871	9.723			
										62	20.45	20.48	18.45	21.28	8.823	8.811	6.823	9.611	
											S64	20.47	20.46	18.47	21.26	8.804	9.057	6.804	9.857

Note:

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

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duct 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 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.20	2.81	5955	1	SU	--	20.45	20.43	23.25	8.978	9.054	14.836
							106T	53	16.73	16.67	19.51	8.535	8.710	14.444
								54	16.72	16.71	19.53	8.782	8.526	14.476
			-0.33	2.65	6175	45	SU	--	20.44	20.42	23.11	9.015	9.007	14.671
							106T	53	16.71	16.69	19.38	8.680	8.444	14.224
								54	16.70	16.73	19.40	8.602	8.406	14.165
			-0.38	2.52	6415	93	SU	--	20.43	20.39	23.04	9.001	9.013	14.537
							106T	53	16.70	16.69	19.33	8.550	8.773	14.193
								54	16.72	16.72	19.35	8.680	8.749	14.245
40MHz	0	0	-0.20	2.81	5965	3	SU	--	20.48	20.45	23.28	5.953	6.022	11.808
							242T	61	20.45	20.43	23.25	8.898	8.867	14.703
								62	20.48	20.45	23.28	8.865	8.847	14.676
			-0.33	2.65	6165	43	SU	--	20.46	20.41	23.12	5.955	6.230	11.755
							242T	61	20.48	20.46	23.15	8.849	8.909	14.539
								62	20.45	20.45	23.13	8.927	8.830	14.539
			-0.38	2.52	6405	91	SU	--	20.42	20.48	23.08	5.903	5.934	11.449
							242T	61	20.47	20.44	23.09	8.704	8.861	14.314
								62	20.44	20.46	23.08	8.714	8.959	14.369
80MHz	0.11	0	-0.20	2.81	5985	7	SU	--	20.45	20.47	23.27	2.809	2.958	8.814
							242T	61	20.42	20.39	23.22	8.553	8.683	14.439
								62	20.40	20.46	23.24	8.422	8.743	14.406
			-0.33	2.65	6145	39		64	20.46	20.44	23.26	8.437	8.540	14.309
							SU	--	20.47	20.46	23.15	2.831	2.770	8.571
							242T	61	20.40	20.42	23.09	8.541	8.578	14.220
			62	20.46	20.48	23.15		8.499	8.453	14.136				
			-0.38	2.52	6385	87		64	20.43	20.48	23.14	8.522	8.478	14.160
							SU	--	20.39	20.44	23.05	3.065	3.149	8.748
242T	61	20.45					20.41	23.06	8.998	8.622	14.344			
	62	20.45	20.48	23.10	8.606	8.986	14.330							
160MHz	0.21	0	-0.20	2.81	6025	15	SU	--	19.44	19.46	22.26	-0.466	-0.503	5.546
							242T	61	20.44	20.45	23.26	9.070	9.112	14.911
								62	20.45	20.43	23.25	8.990	9.123	14.877
			-0.33	2.65	6185	47		S64	20.48	20.46	23.28	9.178	9.129	14.974
							SU	--	19.47	19.47	22.15	-0.790	-0.798	5.076
							242T	61	20.46	20.48	23.15	9.144	9.054	14.760
			62	20.45	20.47	23.14		8.980	8.896	14.599				
			-0.38	2.52	6345	79		S64	20.43	20.45	23.12	9.000	9.071	14.696
							SU	--	20.41	20.44	23.06	0.468	0.680	6.316
242T	61	20.43					20.47	23.08	8.966	8.937	14.482			
	62	20.47	20.43	23.08	8.800	9.022	14.443							
							S64	20.46	20.46	23.09	8.801	8.901	14.382	

Note:

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

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duct
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 1 Gain (dBi)	Ant 2 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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
20MHz	0	0	0.10	0.30	6535	117	SU	--	19.96	19.92	20.06	20.22	8.266	8.434	8.366	8.734
							106T	53	16.19	16.19	16.29	16.49	8.067	8.140	8.167	8.440
								54	16.22	16.22	16.32	16.52	8.045	8.196	8.145	8.496
					6715	153	SU	--	19.92	19.97	20.02	20.27	8.434	8.576	8.534	8.876
							106T	53	16.20	16.17	16.30	16.47	8.492	8.406	8.592	8.706
								54	16.23	16.18	16.33	16.48	8.530	8.428	8.630	8.728
					6855	181	SU	--	19.91	19.93	20.01	20.23	8.413	8.470	8.513	8.770
							106T	53	16.23	16.22	16.33	16.52	8.196	8.211	8.296	8.511
								54	16.19	16.21	16.29	16.51	8.076	8.075	8.176	8.375
					6565	123	SU	--	19.96	19.92	20.06	20.22	5.505	5.564	5.605	5.864
							242T	61	19.92	19.89	20.02	20.19	9.096	8.945	9.196	9.245
								62	19.97	19.98	20.07	20.28	9.013	9.077	9.113	9.377
40MHz	0	0	0.10	0.30	6685	147	SU	--	19.92	19.96	20.02	20.26	5.665	5.573	5.765	5.873
							242T	61	19.93	19.95	20.03	20.25	8.834	9.232	8.934	9.532
								62	19.96	19.91	20.06	20.21	8.869	8.905	8.969	9.205
					6845	179	SU	--	19.90	19.97	20.00	20.27	5.623	5.630	5.723	5.930
							242T	61	19.89	19.92	19.99	20.22	8.672	8.852	8.772	9.152
								62	19.96	19.95	20.06	20.25	8.747	8.741	8.847	9.041
80MHz (FCC)	0.11	0	0.10	0.30	6625	135	SU	--	19.96	19.92	20.06	20.22	2.779	2.918	2.989	3.328
							242T	61	19.98	19.94	20.08	20.24	8.711	8.357	8.811	8.657
								62	19.92	19.93	20.02	20.23	8.567	8.323	8.667	8.623
								64	19.96	19.96	20.06	20.26	8.655	8.414	8.755	8.714
									19.92	19.91	20.02	20.21	2.677	2.902	2.887	3.312
									19.93	19.93	20.03	20.23	8.588	8.595	8.688	8.895
80MHz	0.11	0	0.10	0.30	6705	151	242T	62	19.95	19.92	20.05	20.22	8.503	8.516	8.603	8.816
								64	19.93	19.94	20.03	20.24	8.593	8.615	8.693	8.915
							SU	--	19.98	19.91	20.08	20.21	3.063	2.906	3.273	3.316
					6785	167	242T	61	19.94	19.89	20.04	20.19	8.612	8.486	8.712	8.786
								62	19.93	19.95	20.03	20.25	8.598	8.623	8.698	8.923
								64	19.94	19.94	20.04	20.24	8.356	8.346	8.456	8.646
160MHz	0.21	0	0.10	0.30	6665	143	SU	--	19.95	19.96	20.05	20.26	-0.738	-0.645	-0.428	-0.135
							242T	61	19.96	19.95	20.06	20.25	8.256	8.124	8.356	8.424
								62	19.94	19.92	20.04	20.22	8.190	8.052	8.290	8.352
								S64	19.89	19.89	19.99	20.19	8.012	8.148	8.112	8.448

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 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	0.20	3.21	6535	117	SU	--	19.98	19.94	23.17	8.304	8.492	14.619
							106T	53	16.23	16.18	19.42	8.137	8.397	14.489
								54	16.21	16.16	19.40	8.333	8.376	14.575
					6715	153	SU	--	19.93	19.93	23.14	8.468	8.466	14.687
							106T	53	16.16	16.22	19.40	8.280	8.640	14.684
								54	16.21	16.19	19.41	8.347	8.329	14.558
					6855	181	SU	--	19.95	19.98	23.18	8.529	8.605	14.787
							106T	53	16.19	16.22	19.42	8.100	7.842	14.193
								54	16.22	16.21	19.43	8.238	7.848	14.268
40MHz	0	0	0.20	3.21	6565	123	SU	--	19.93	19.98	23.17	5.428	5.669	11.770
							242T	61	19.97	19.92	23.16	8.685	8.629	14.877
								62	19.93	19.95	23.15	8.877	8.479	14.903
					6685	147	SU	--	19.91	19.93	23.13	5.645	5.783	11.935
							242T	61	19.94	19.98	23.17	8.912	8.523	14.942
								62	19.97	19.94	23.17	8.897	8.813	15.076
					6845	179	SU	--	19.93	19.93	23.14	5.690	5.298	11.719
							242T	61	19.95	19.95	23.16	8.709	8.792	14.971
								62	19.97	19.92	23.16	8.654	8.946	15.023
80MHz (FCC)	0.11	0	0.20	3.21	6625	135	SU	--	19.92	19.97	23.16	2.879	3.046	9.294
							242T	61	19.95	19.94	23.16	8.638	8.596	14.837
								62	19.92	19.96	23.15	8.505	8.653	14.800
								64	19.89	19.92	23.12	8.734	8.548	14.862
80MHz	0.11	0	0.20	3.21	6705	151	SU	--	19.94	19.92	23.14	2.954	2.840	9.228
							242T	61	19.94	19.92	23.14	8.616	8.494	14.776
								62	19.95	19.89	23.13	8.637	8.479	14.779
								64	19.95	19.94	23.16	8.387	8.348	14.588
					6785	167	SU	--	19.93	19.98	23.17	2.709	2.826	9.098
							242T	61	19.98	19.94	23.17	8.453	8.872	14.888
								62	19.98	19.92	23.16	8.719	8.816	14.988
								64	19.98	19.96	23.18	8.450	8.403	14.647
160MHz	0.21	0	0.20	3.21	6665	143	SU	--	19.89	19.91	23.11	-0.372	-0.443	6.023
							242T	61	19.92	19.96	23.15	8.355	8.359	14.577
								62	19.94	19.97	23.17	8.066	8.456	14.486
							S64		19.93	19.94	23.15	8.029	8.074	14.272

Note:

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

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

9.6. 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.

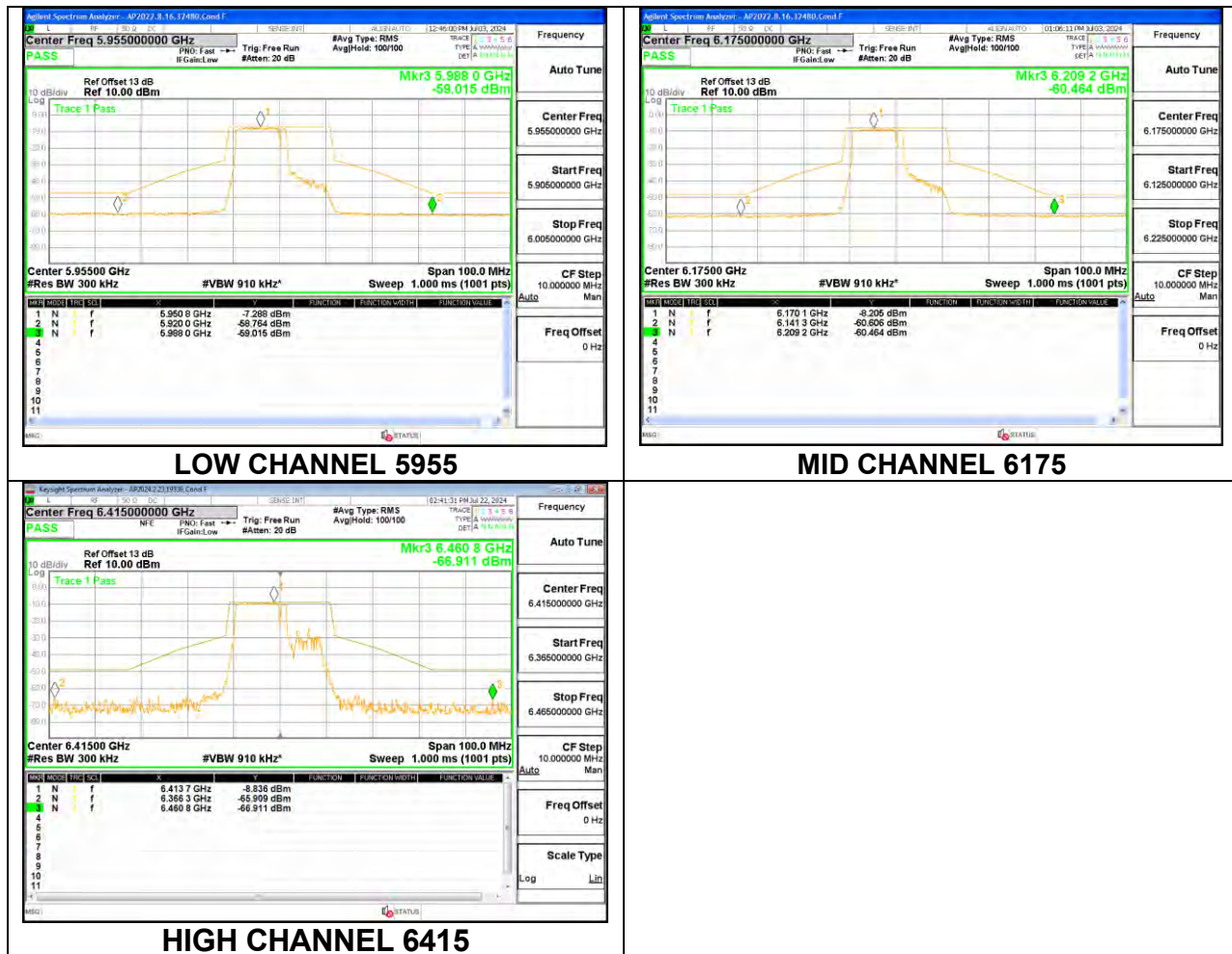
TEST PROCEDURE

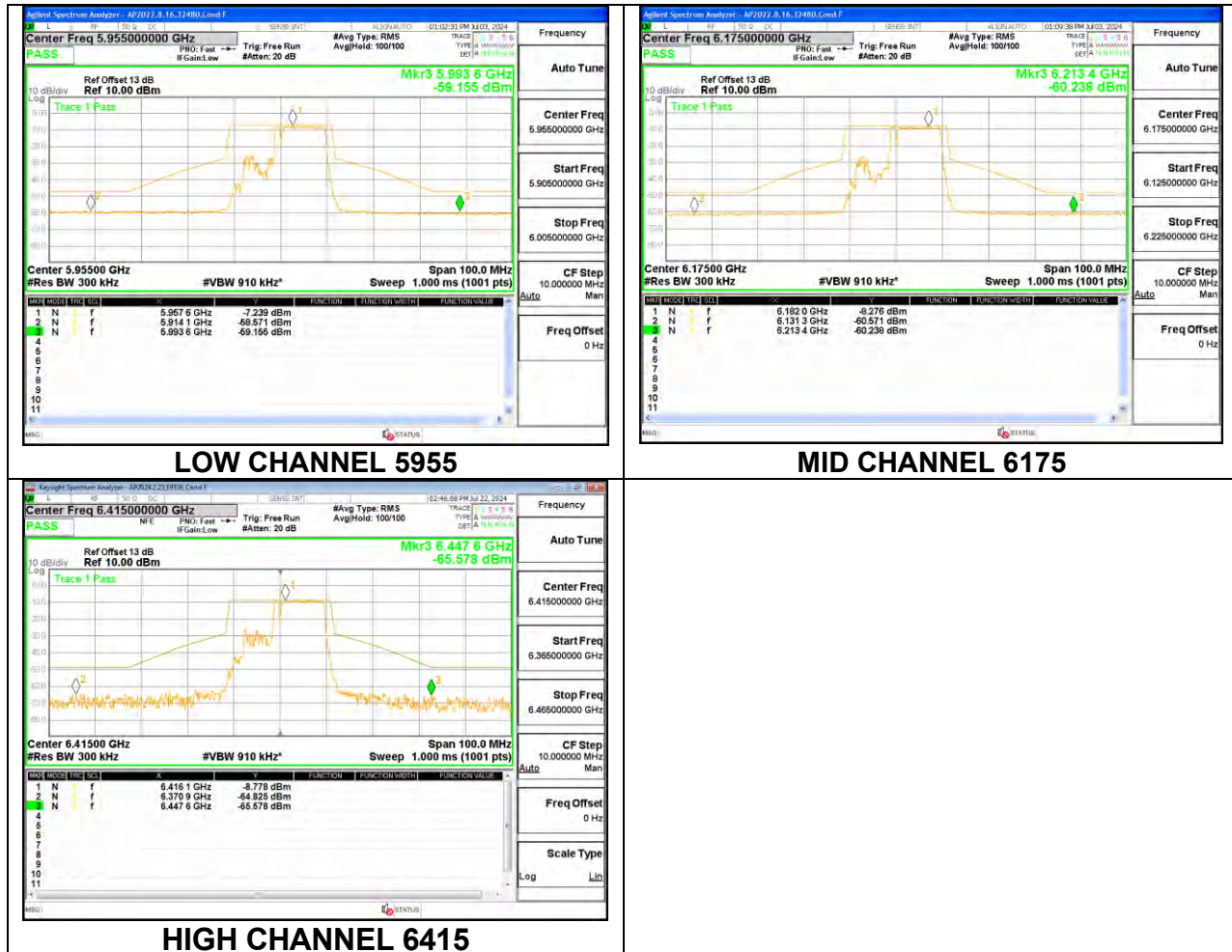
Follow KCB 987594 D02 v01r01, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Partial RU tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

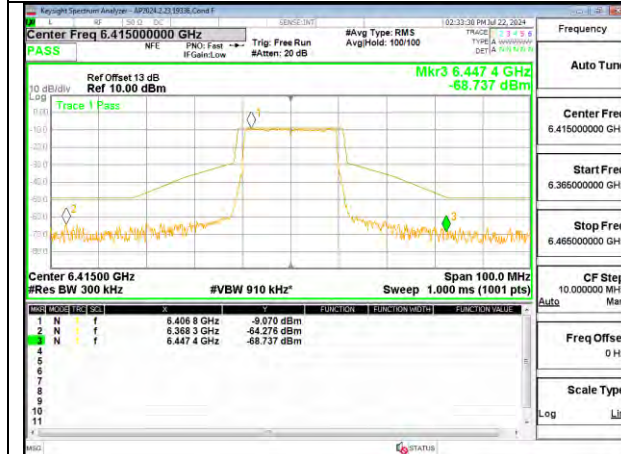
Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	300kHz/910kHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	300kHz/910kHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial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

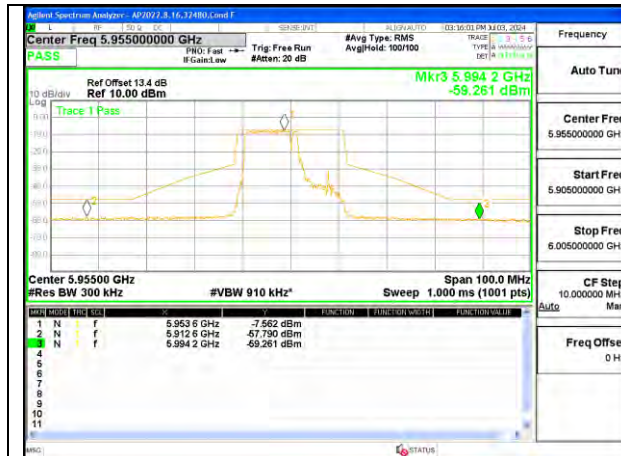
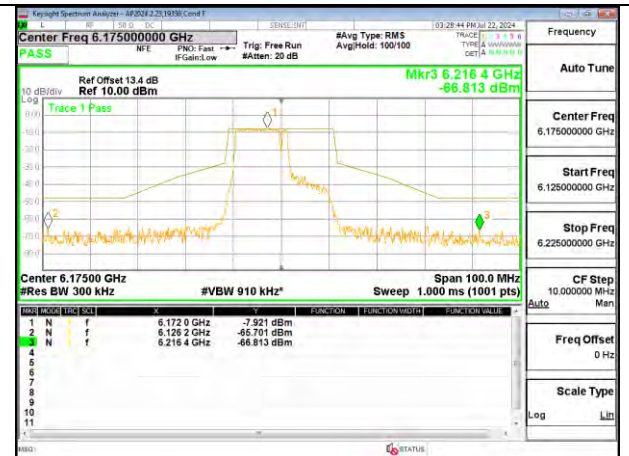
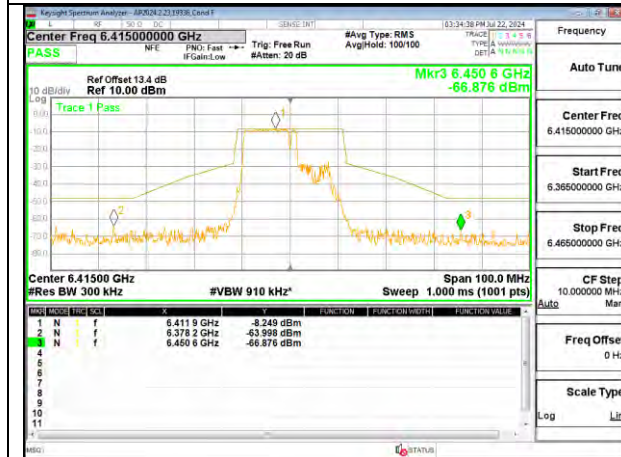
RESULTS

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.

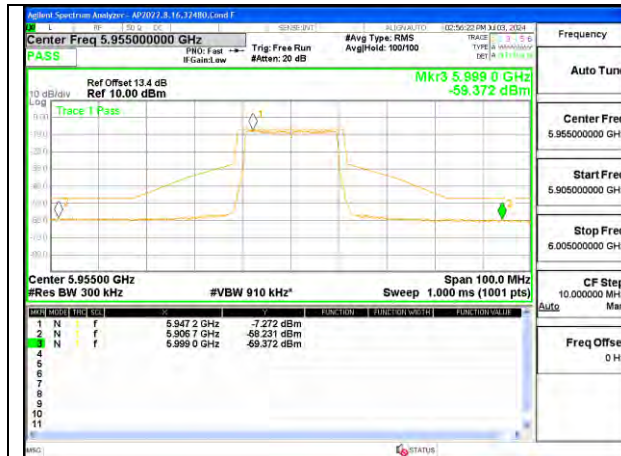
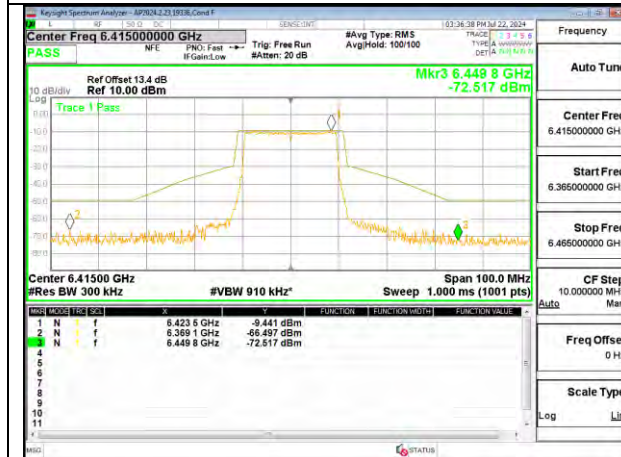
9.6.1. 802.11be EHT20 MODE IN THE UNII-5 BAND**1TX Antenna 6 MODE (FCC) MOBILE – MRU106+26-Tones, RU Index 82**

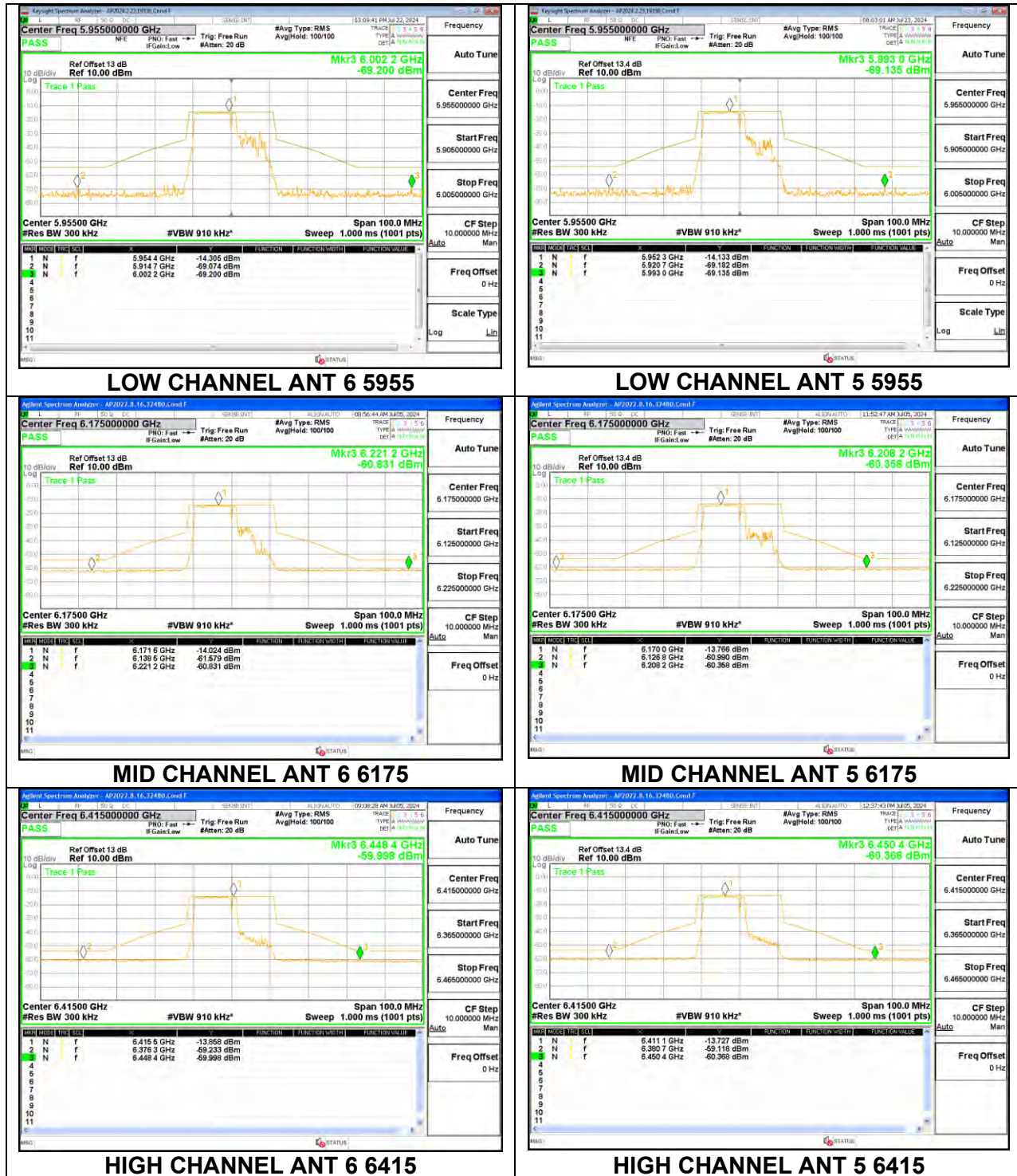
1TX Antenna 6 MODE (FCC) MOBILE – MRU106+26-Tones, RU Index 83

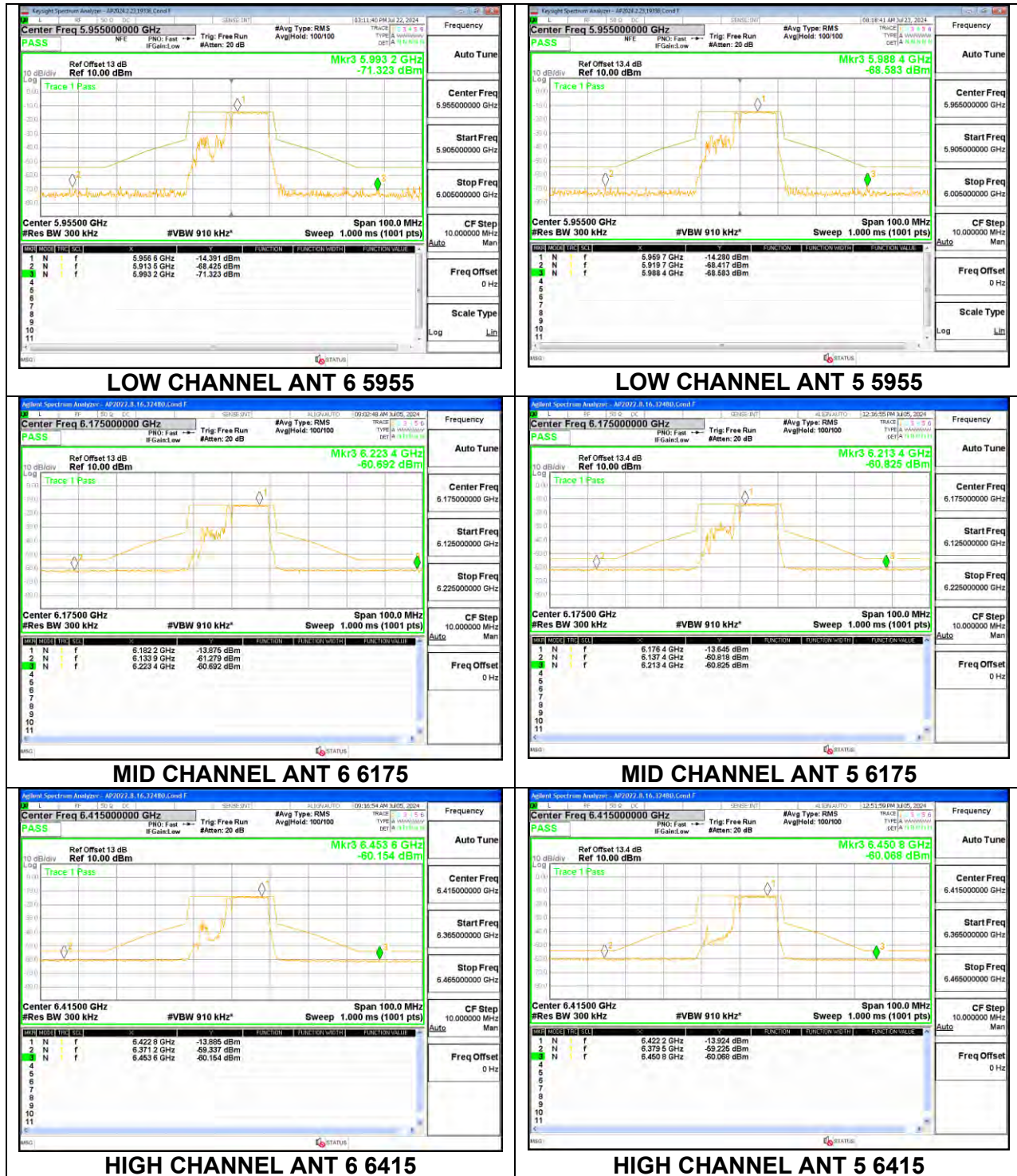
1TX Antenna 6 MODE (FCC) MOBILE – SU MODE**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

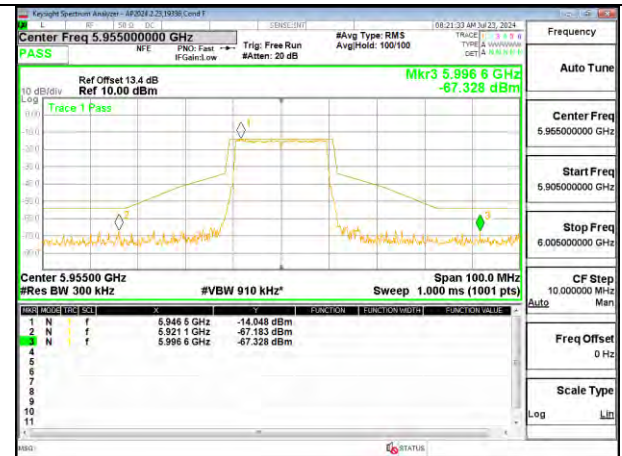
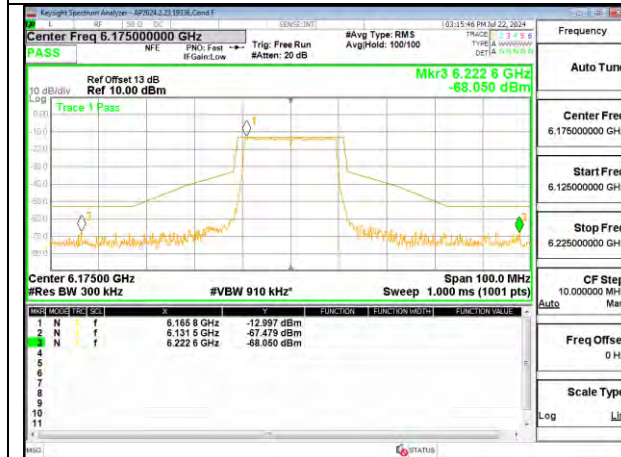
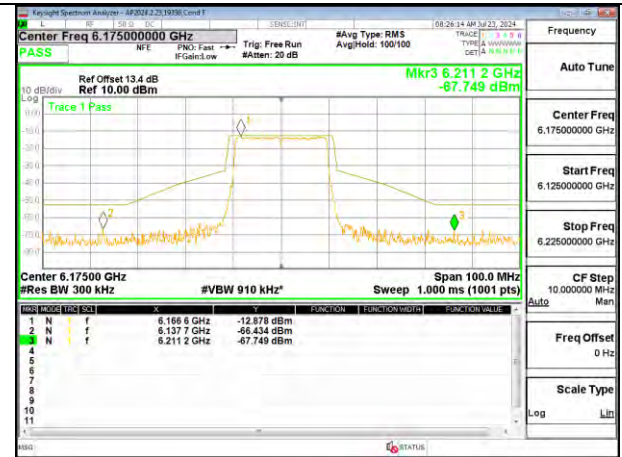
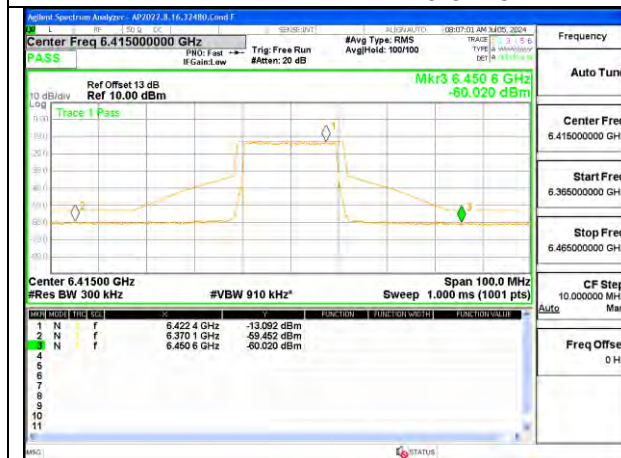
1TX Antenna 5 MODE (FCC) MOBILE – MRU106+26-Tones, RU Index 82**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

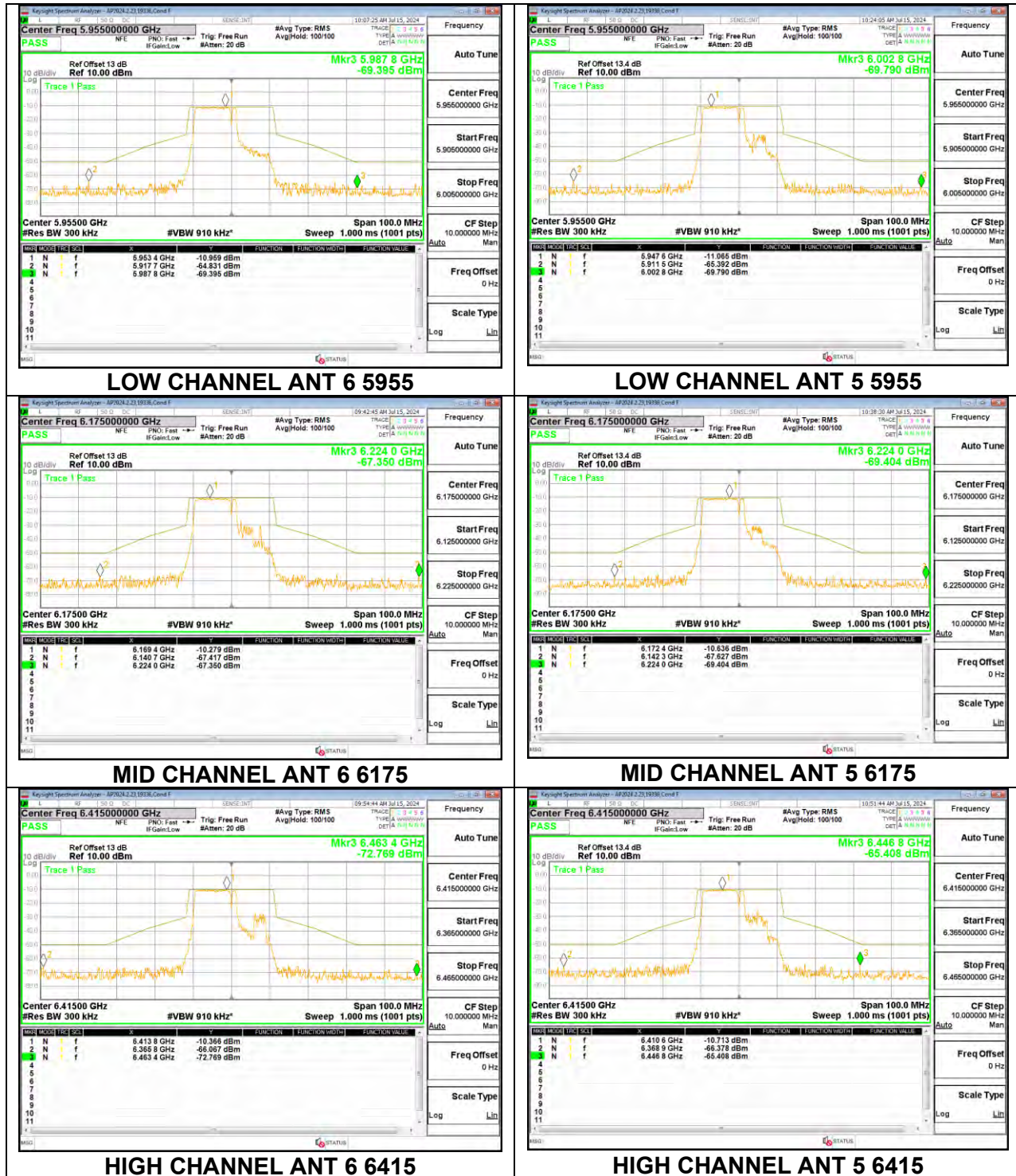
1TX Antenna 5 MODE (FCC) MOBILE – MRU106+26-Tones, RU Index 83**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

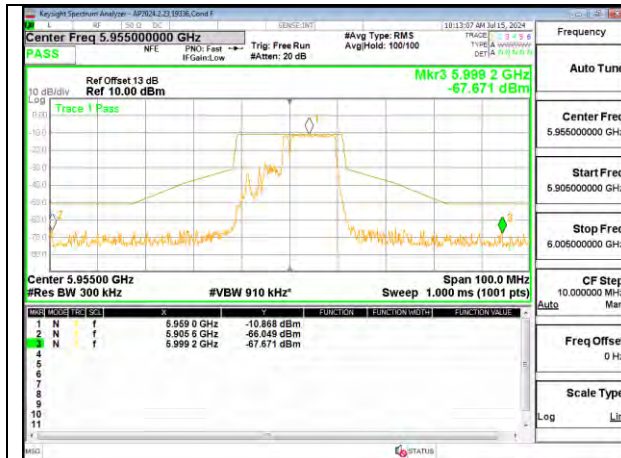
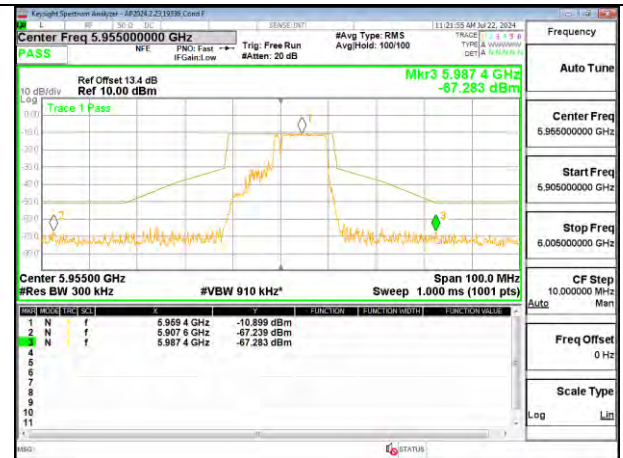
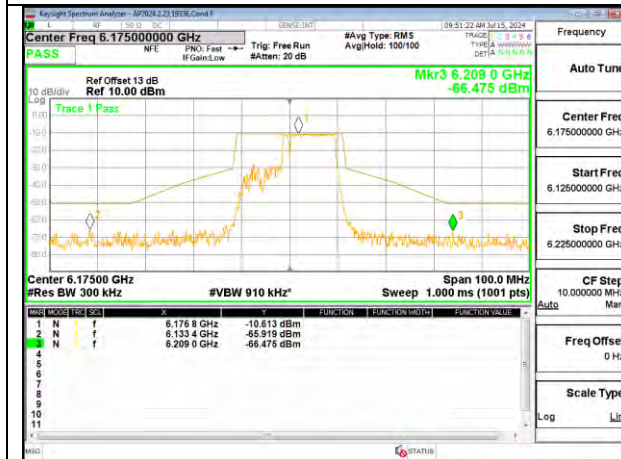
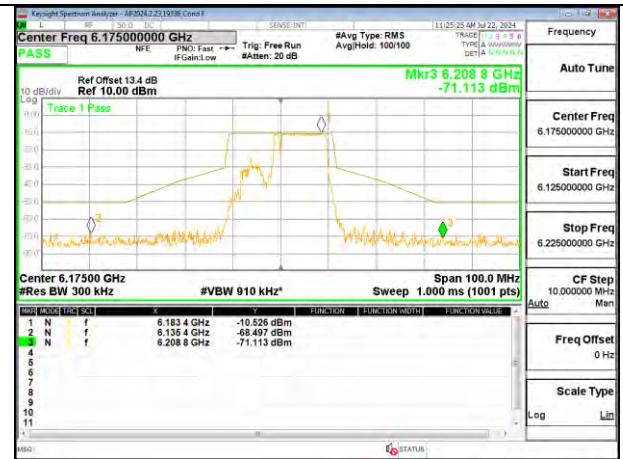
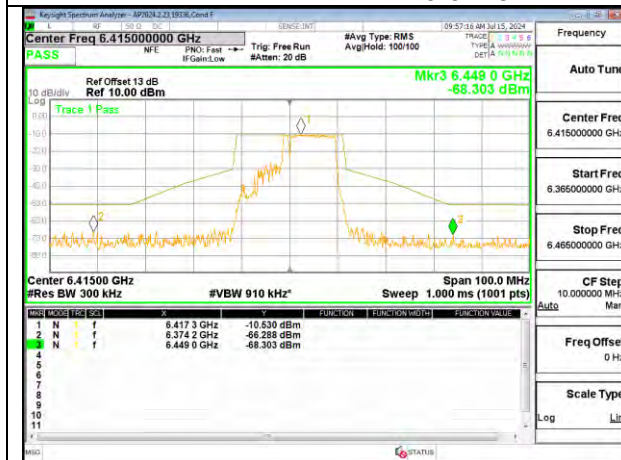
1TX Antenna 5 MODE (FCC) MOBILE – SU MODE**LOW CHANNEL 5955****MID CHANNEL 6175****HIGH CHANNEL 6415**

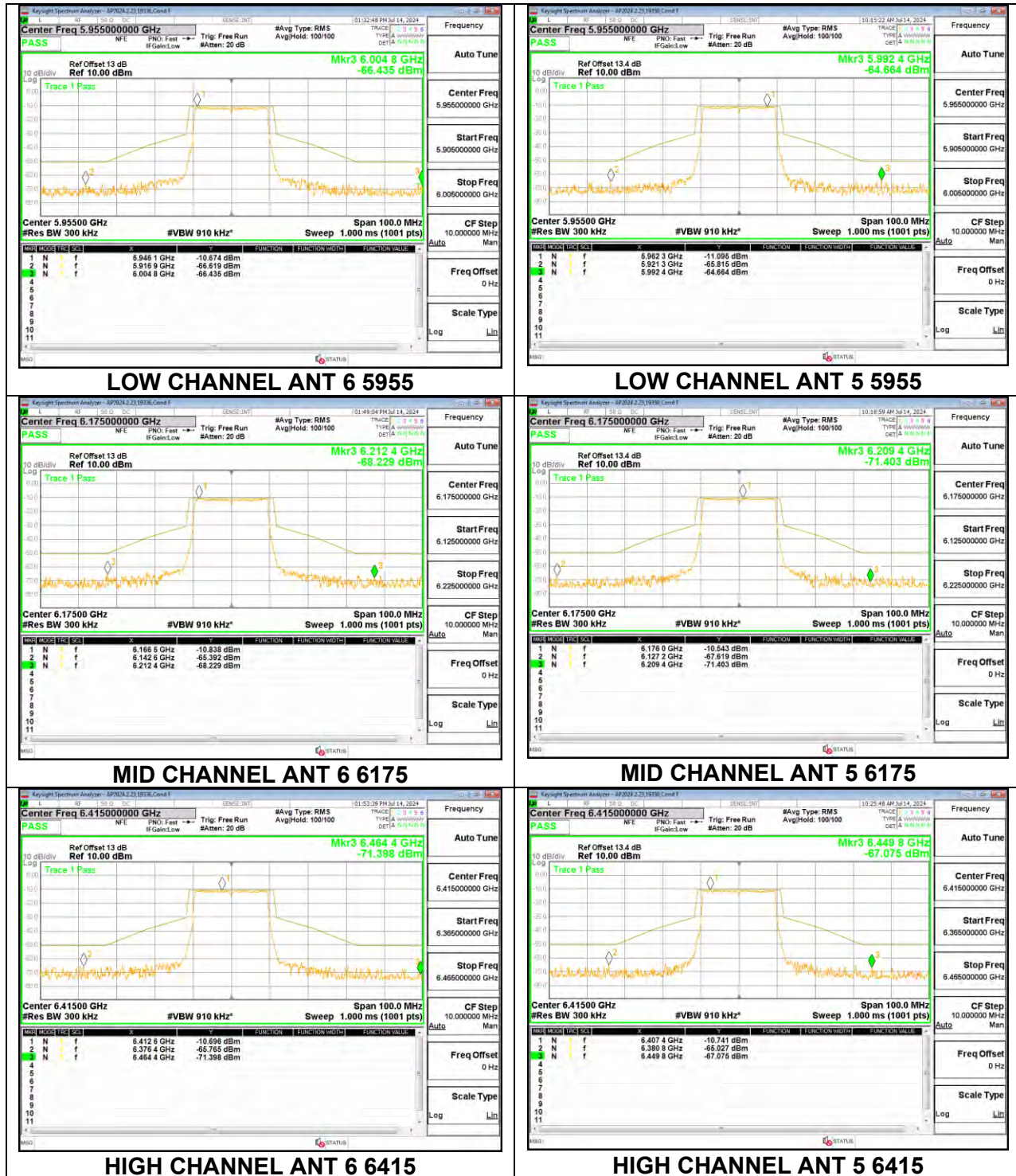
2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – MRU106+26-Tones, RU Index 82

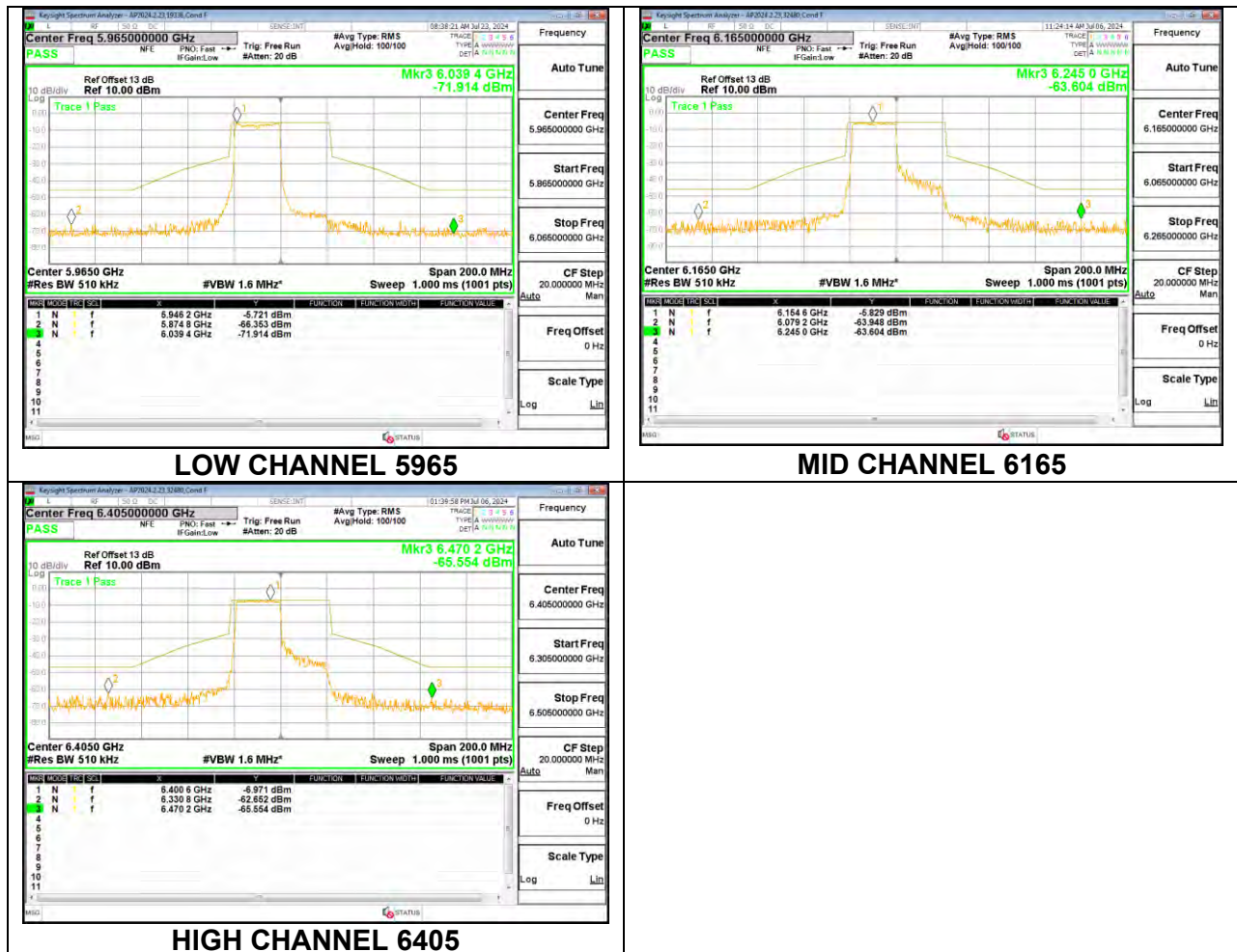
2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – MRU106+26-Tones, RU Index 83

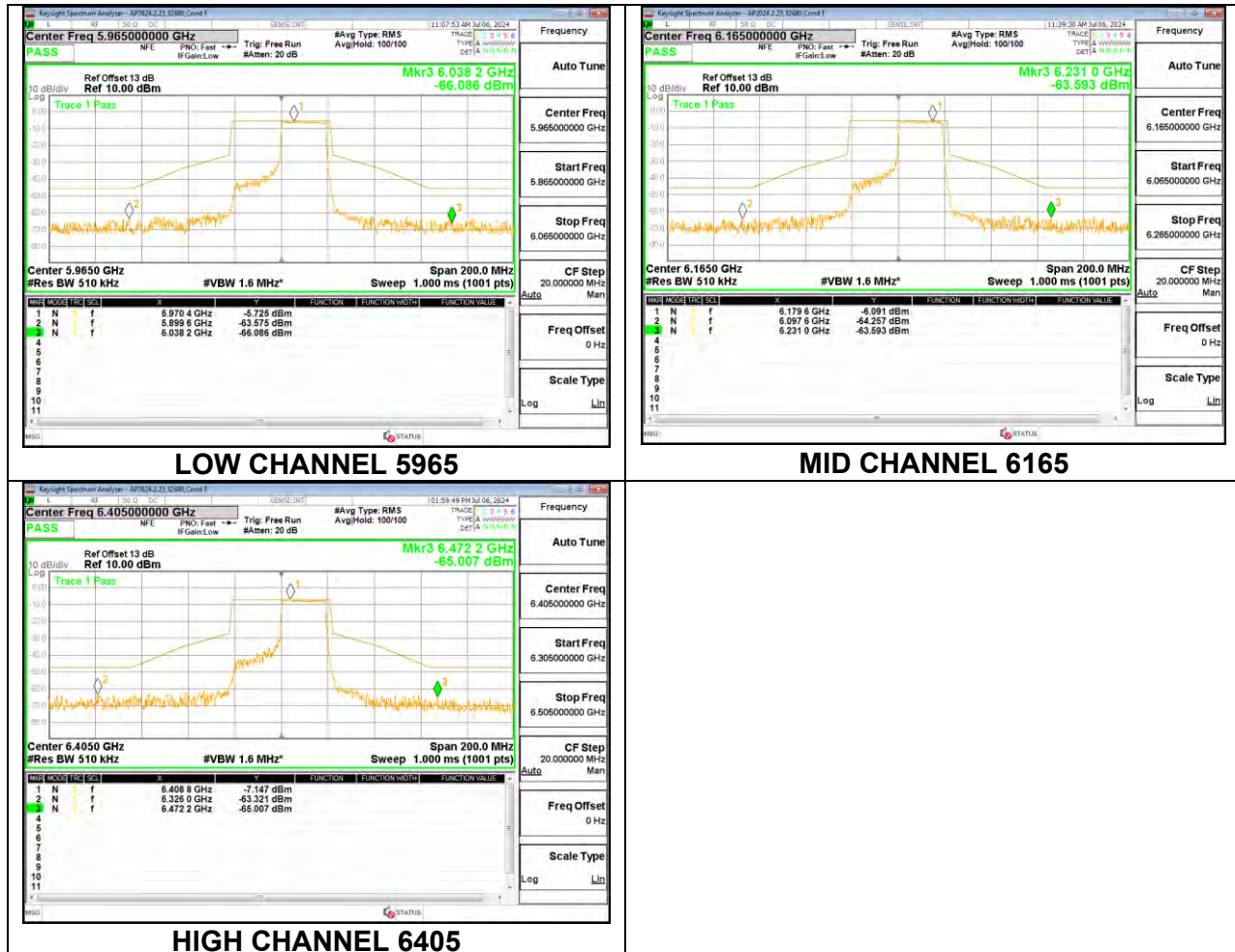
2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – SU MODE**LOW CHANNEL ANT 6 5955****LOW CHANNEL ANT 5 5955****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

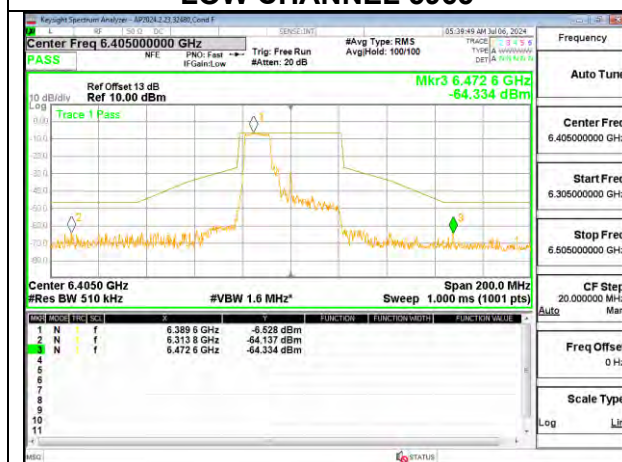
2TX Antenna 6 + Antenna 5 SDM MODE (FCC) – MRU106+26-Tones, RU Index 82

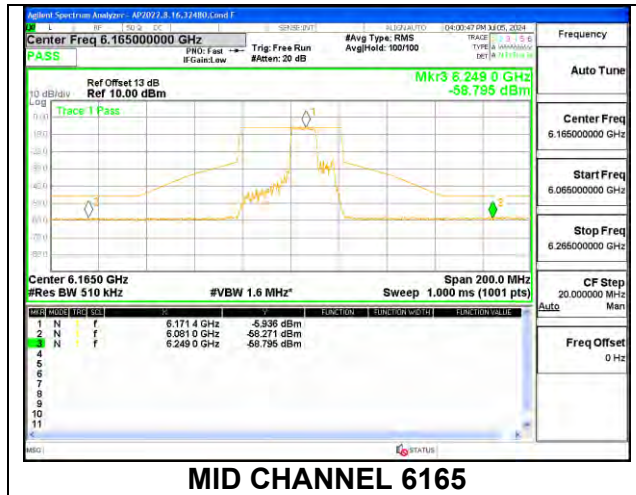
2TX Antenna 6 + Antenna 5 SDM MODE (FCC) – MRU106+26-Tones, RU Index 83**LOW CHANNEL ANT 6 5955****LOW CHANNEL ANT 5 5955****MID CHANNEL ANT 6 6175****MID CHANNEL ANT 5 6175****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

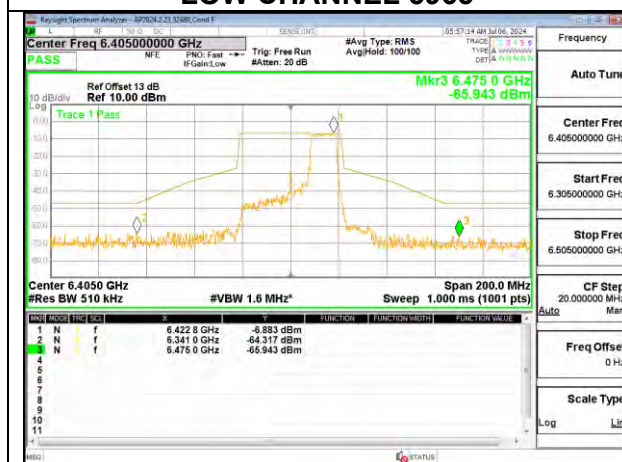
2TX Antenna 6 + Antenna 5 SDM MODE (FCC) – SU Mode

9.6.2. 802.11be EHT40 MODE IN THE UNII-5 BAND**1TX Antenna 6 MODE (FCC) MOBILE – 242-Tone, RU Index 61**

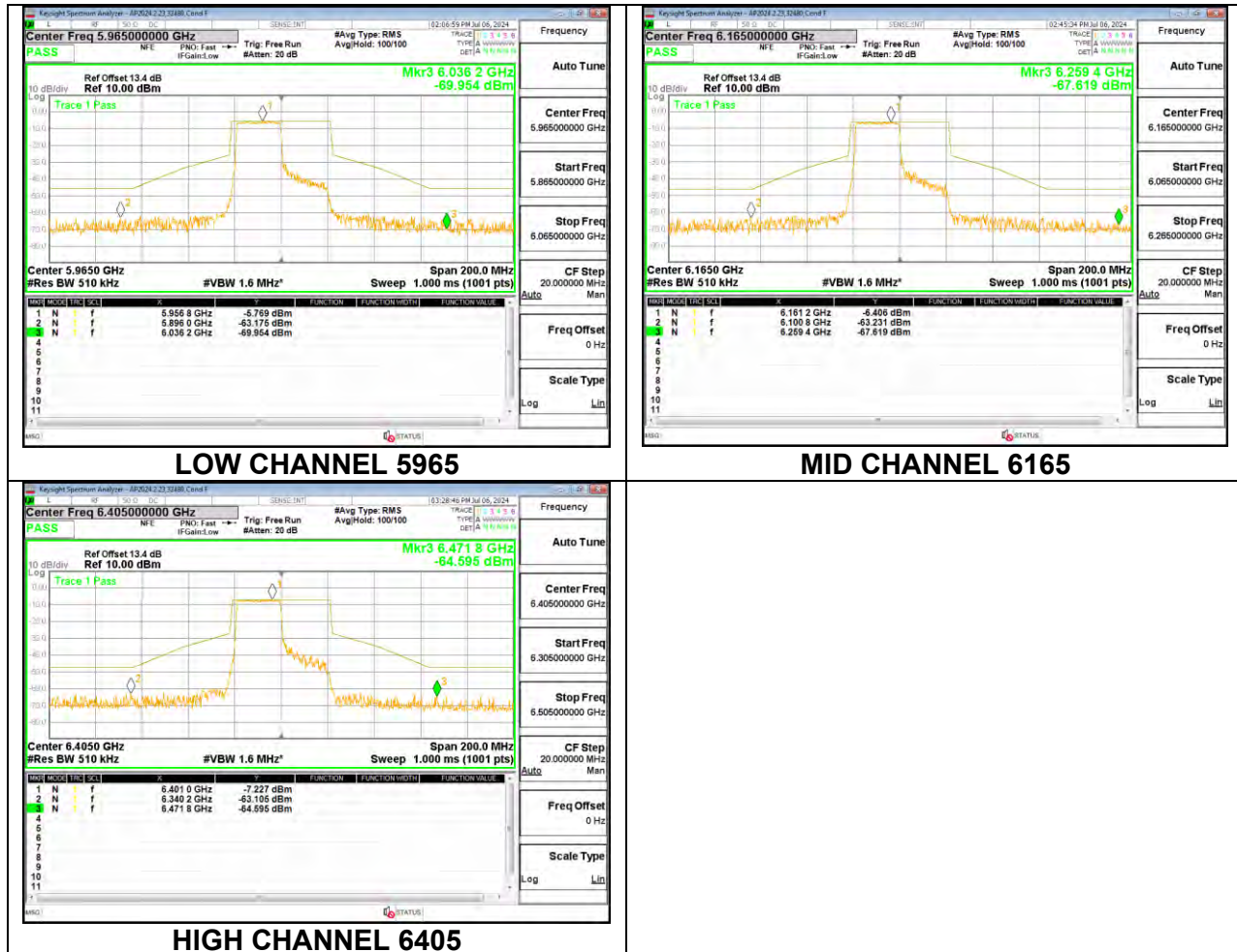
1TX Antenna 6 MODE (FCC) MOBILE – 242-Tone, RU Index 62

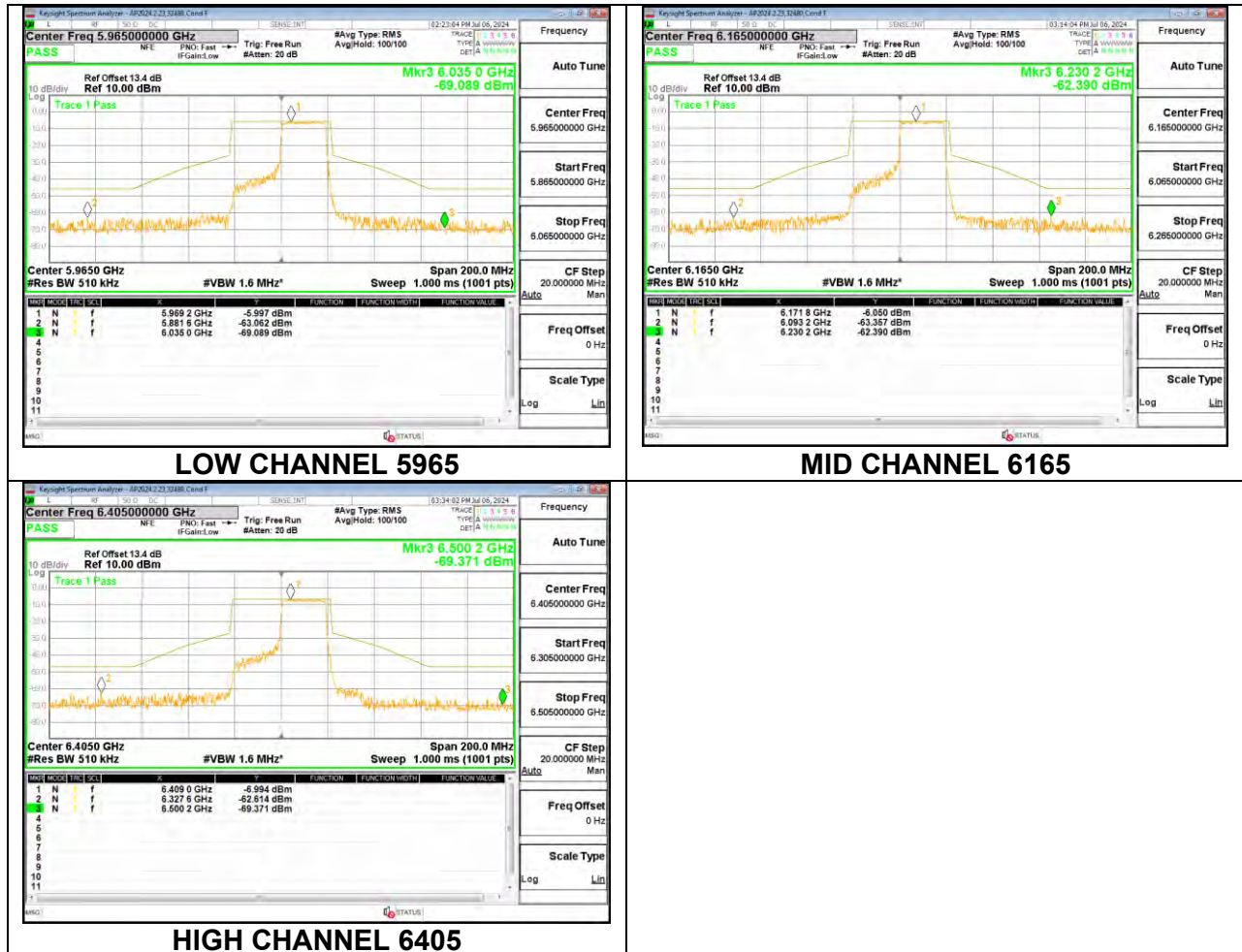
1TX Antenna 6 MODE (FCC) MOBILE – MRU106+26-Tone, RU Index 82**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

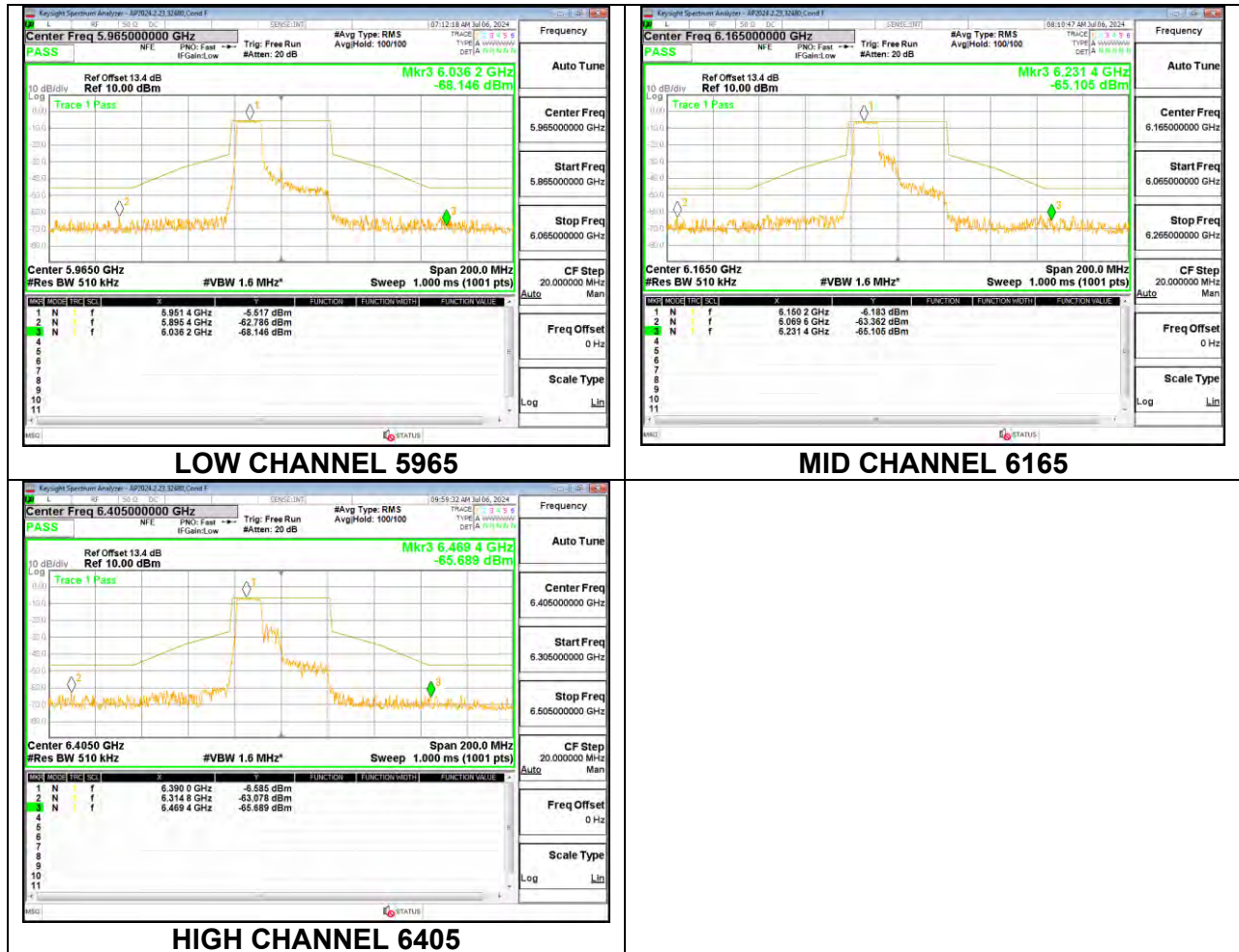
1TX Antenna 6 MODE (FCC) MOBILE – MRU106+26-Tone, RU Index 84

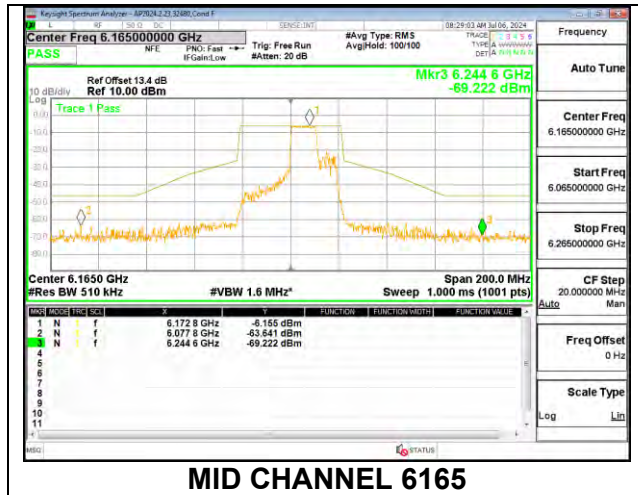
1TX Antenna 6 MODE (FCC) MOBILE – MRU106+26-Tone, RU Index 85**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

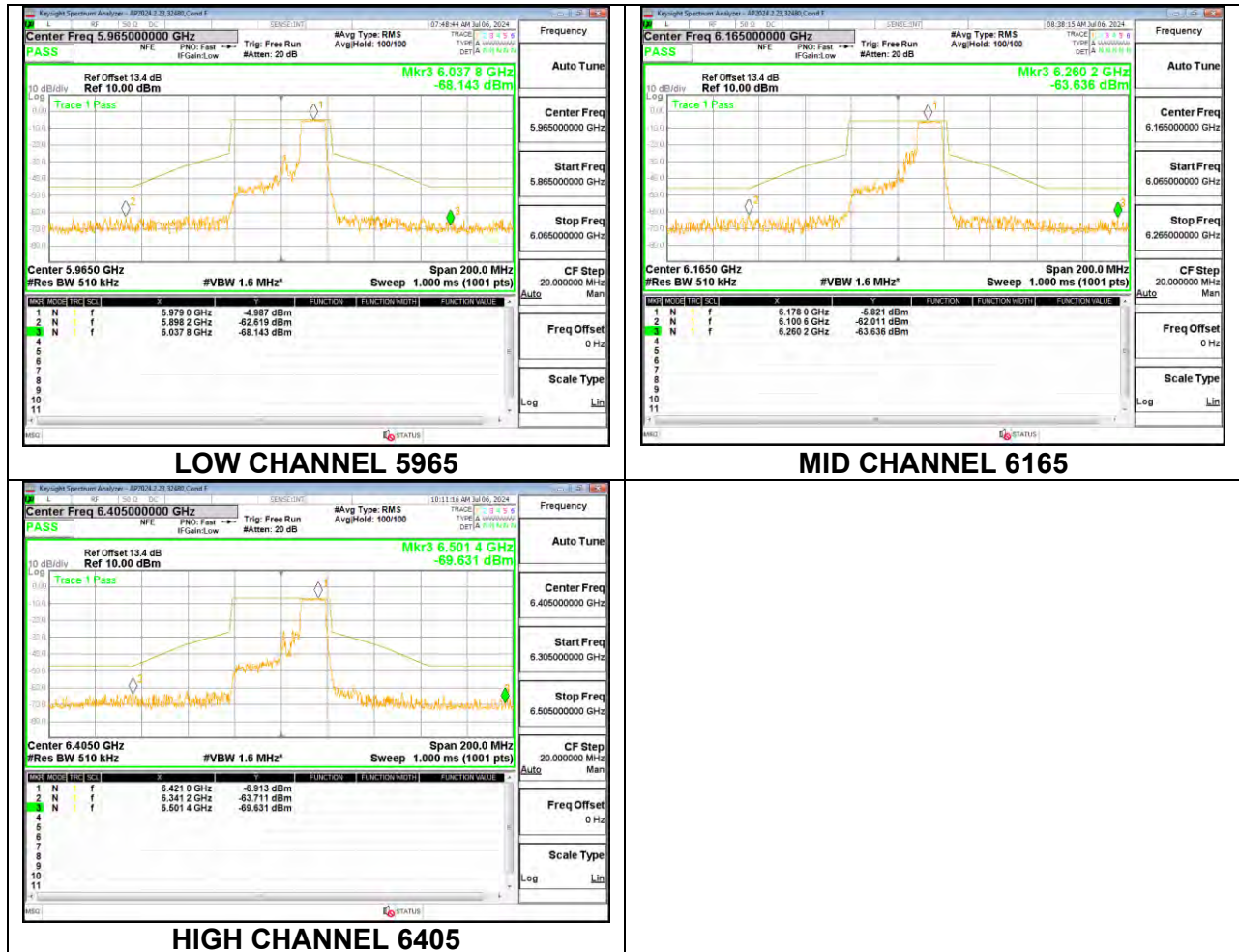
1TX Antenna 6 MODE (FCC) MOBILE – SU MODE**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

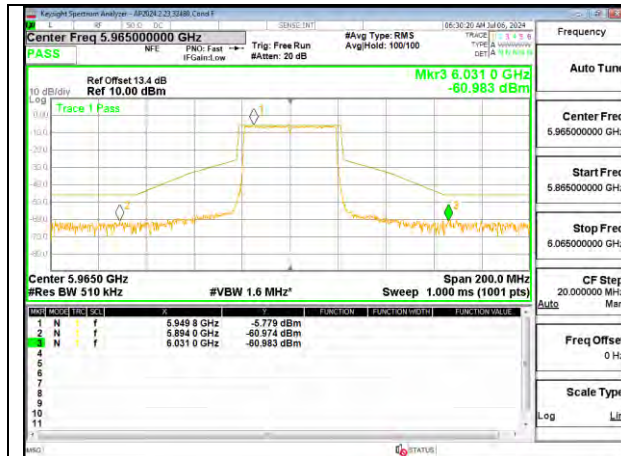
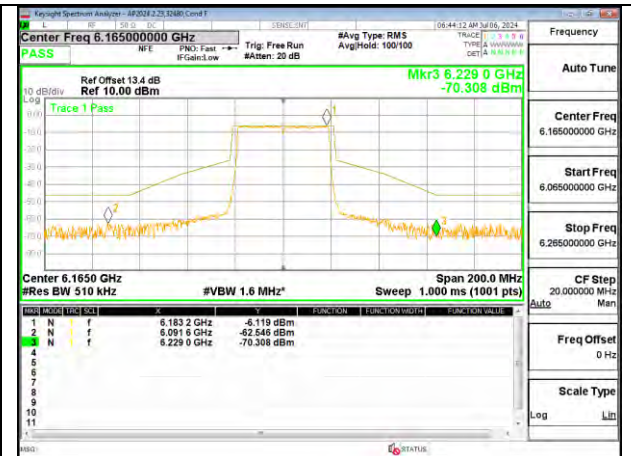
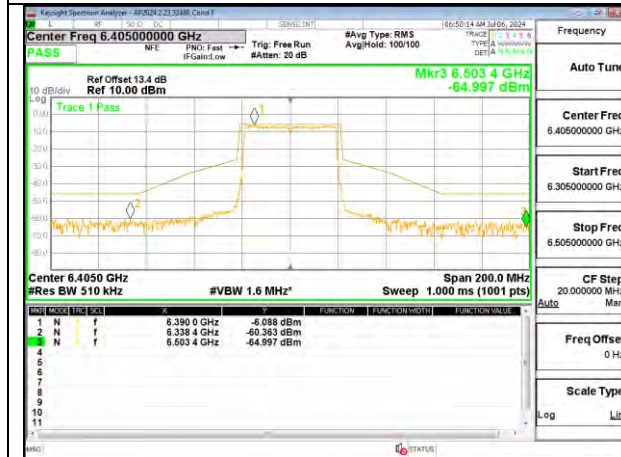
1TX Antenna 5 MODE (FCC) MOBILE – 242-Tone, RU Index 61

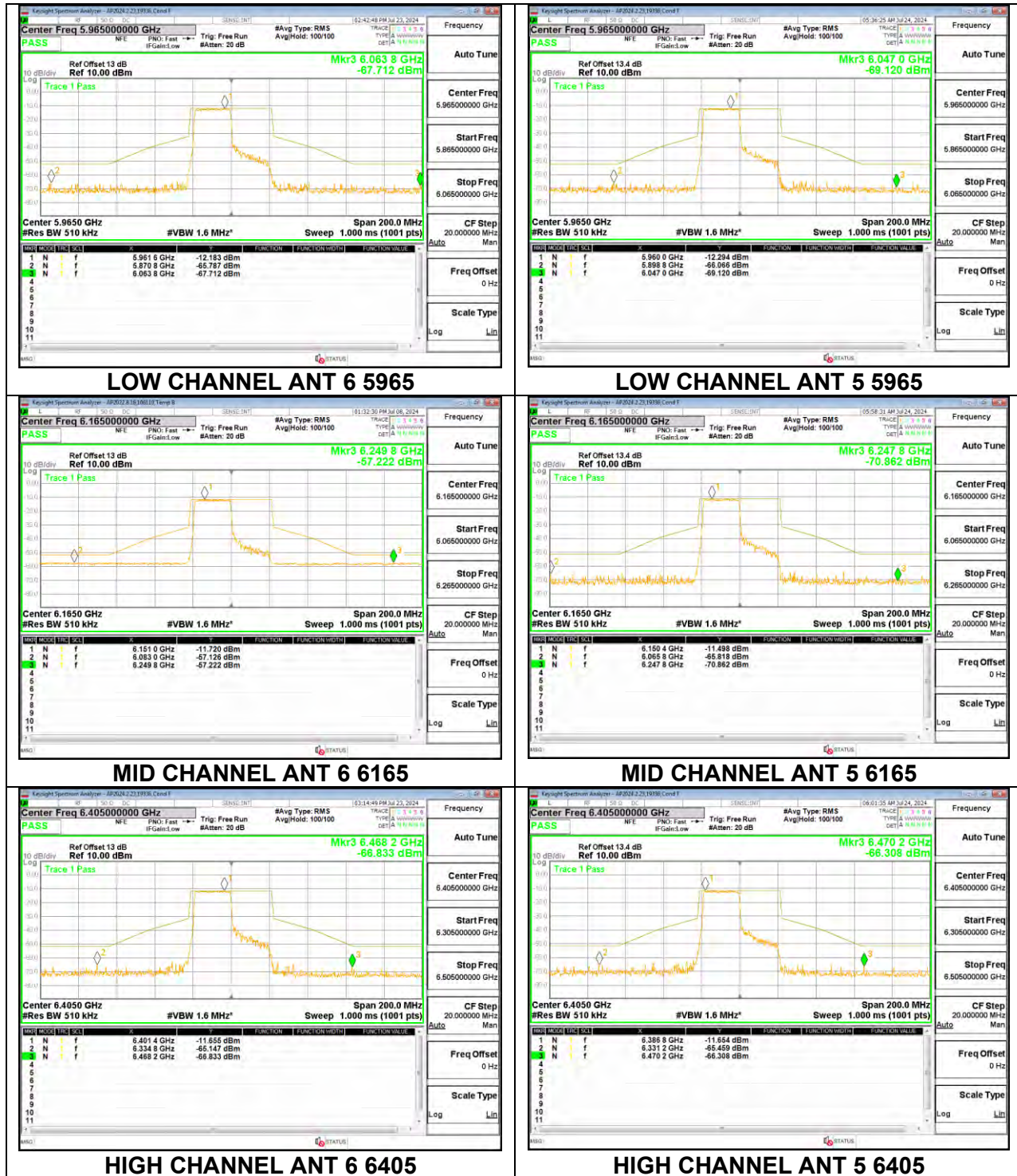
1TX Antenna 5 MODE (FCC) MOBILE – 242-Tone, RU Index 62

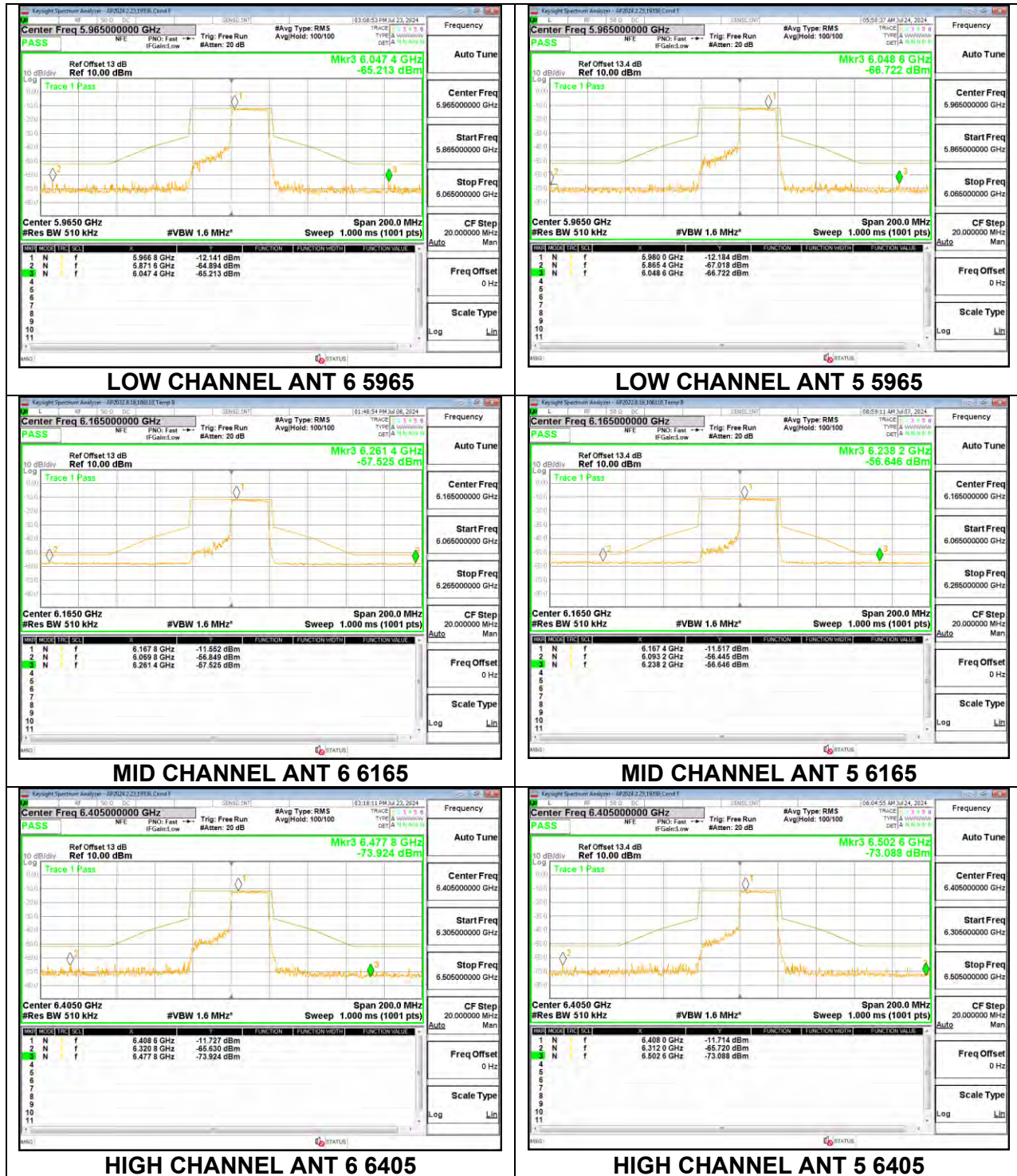
1TX Antenna 5 MODE (FCC) MOBILE – MRU106+26-Tone, RU Index 82

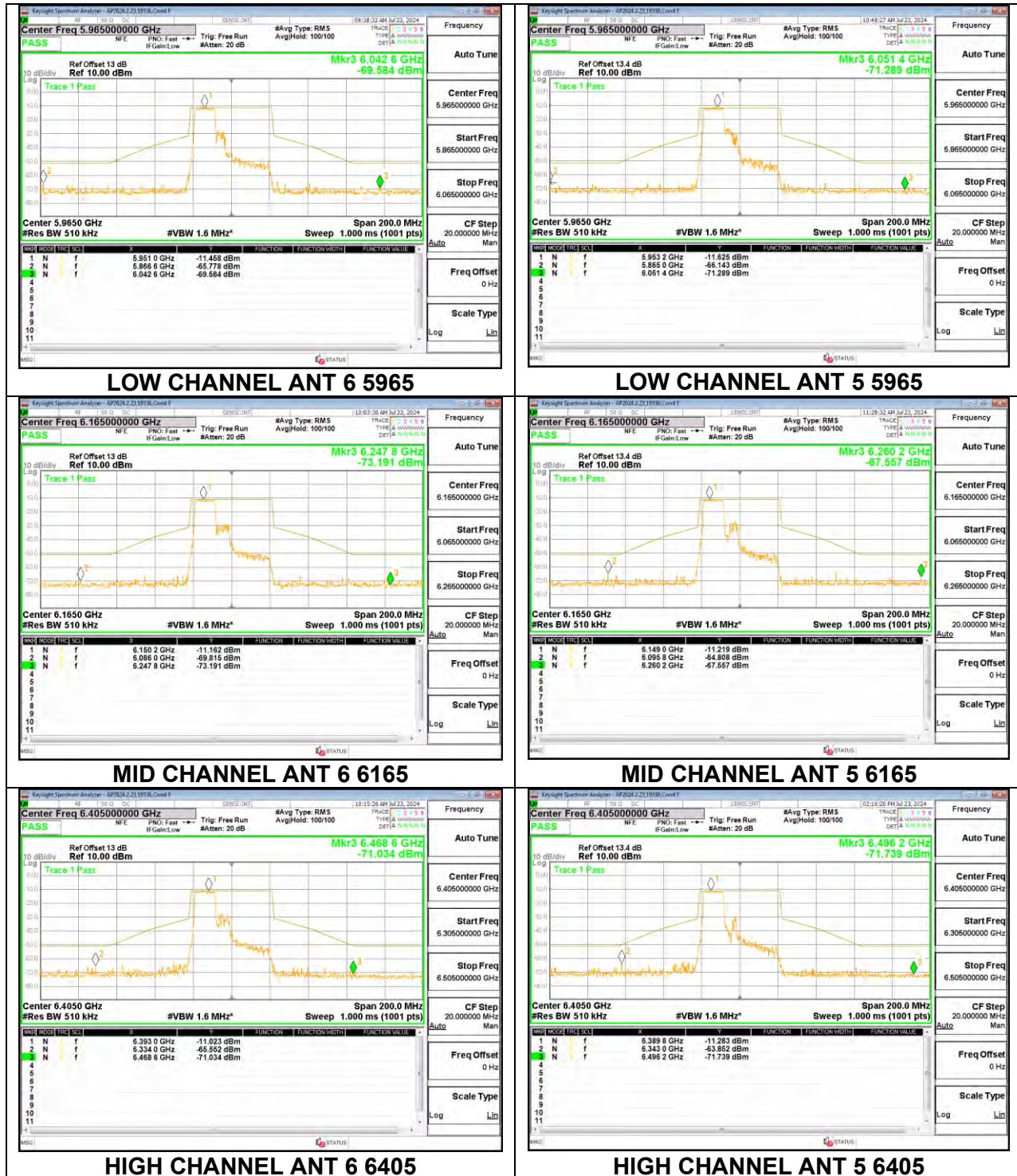
1TX Antenna 5 MODE (FCC) MOBILE – MRU106+26-Tone, RU Index 84

1TX Antenna 5 MODE (FCC) MOBILE – MRU106+26-Tone, RU Index 85

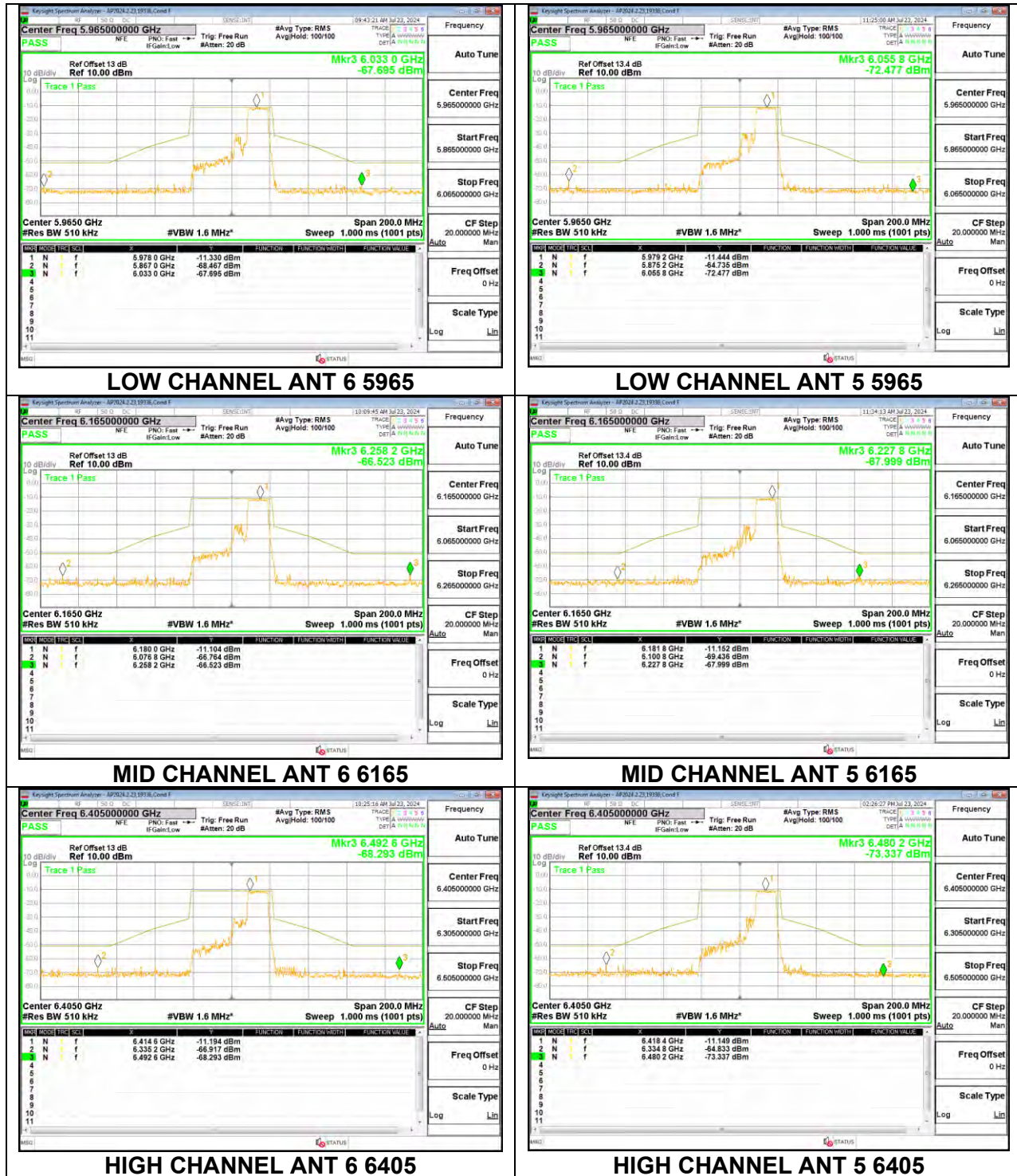
1TX Antenna 5 MODE (FCC) MOBILE – SU MODE**LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

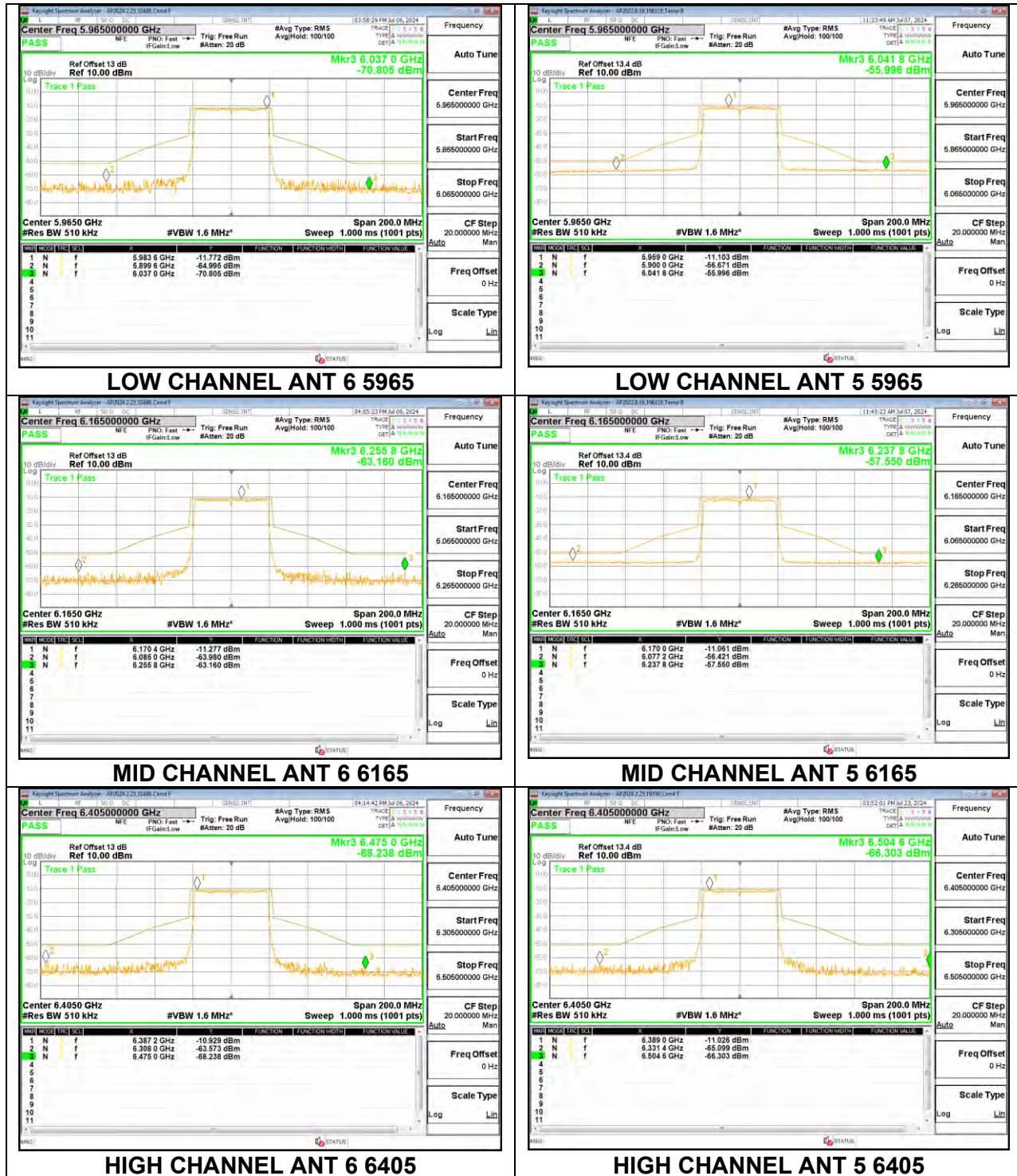
2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – 242-Tone, RU Index 61

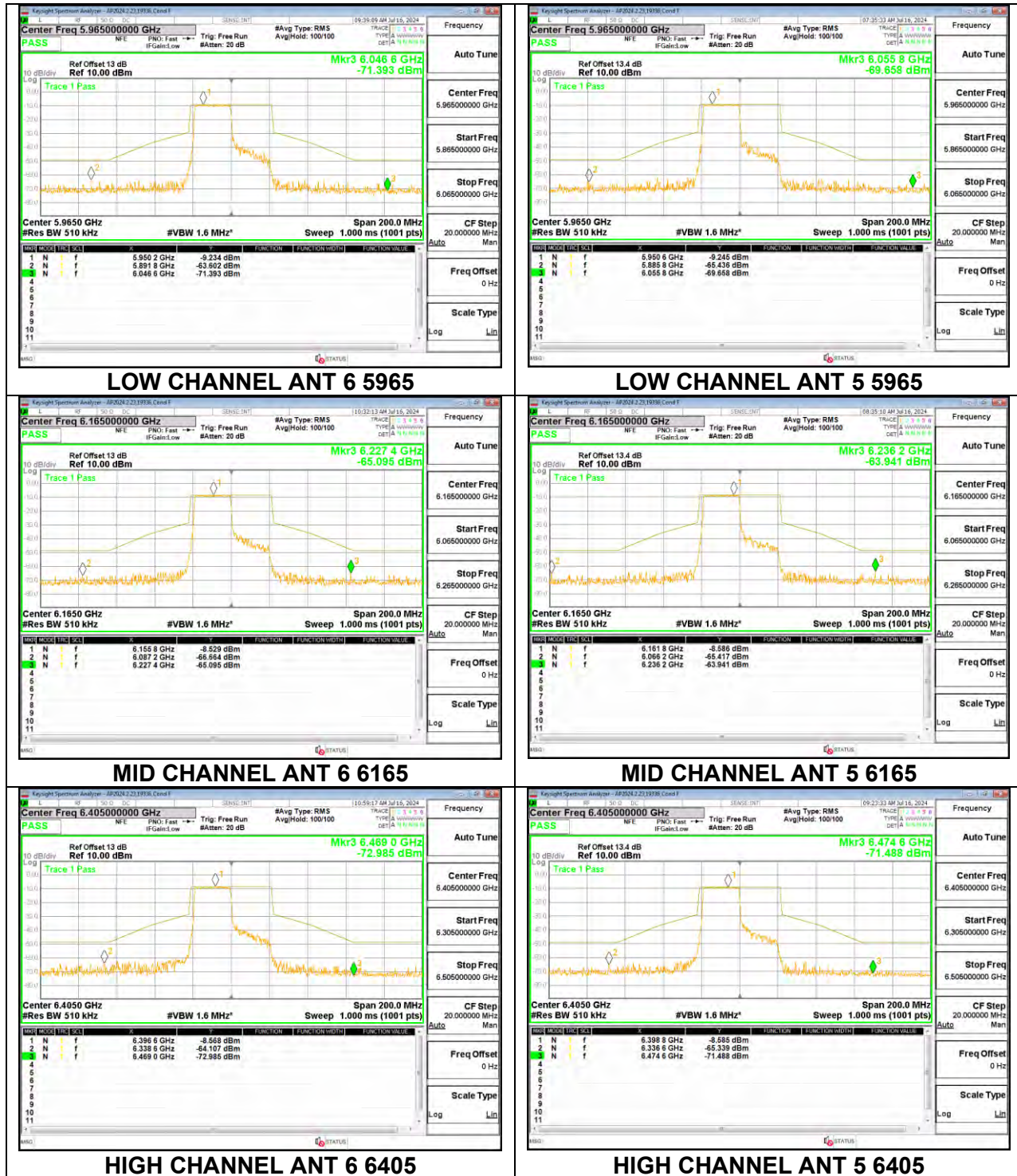
2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – 242-Tone, RU Index 62

2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – MRU106+26-Tone, RU Index 82

2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – MRU106+26-Tone, RU Index 84

2TX Antenna 6 + Antenna 5 CDD MODE (FCC) – MRU106+26-Tone, RU Index 85

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

2TX Antenna 6 + Antenna 5 SDM MODE (FCC) – 242-Tone, RU Index 61

2TX Antenna 6 + Antenna 5 SDM MODE (FCC) – 242-Tone, RU Index 62