RF TEST REPORT

Applicant	Aava Mobile Oy
FCC ID	2ABVH-INARI10E1
Product	10" Tablet Computer
Brand	AAVA
Model	INARI-E-10-WIG-1
Report No.	R2406A0726-R5
Issue Date	September 11, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2023)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Antenna Requirement	15.203	PASS
2	99% OBW & Emission Bandwidth	15.407(a) C63.10 6.9	PASS
3	Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	15.407(a)	PASS
4	Peak Power Spectral Density (E.I.R.P.)	15.407(a)	PASS
5	Frequency Stability	15.407(g)	PASS
6	In-Band Emission (Mask)	15.407(b)(6)	PASS
7	Contention-Based Protocol	15.407(d)	PASS
8	Unwanted Emissions	15.407(b)	PASS
9	Conducted Emissions	15.207	PASS
10	Operational restrictions for 6 GHz U-NII devices	15.407(d)	PASS
Date of Testing: June 24, 2024 ~ August 28, 2024 Date of Sample Received: June 24, 2024			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Aava Mobile Oy
Applicant address	Nahkatehtaankatu 2, FI-90130 Oulu, Finland
Manufacturer	Aava Mobile Oy
Manufacturer address	Nahkatehtaankatu 2, FI-90130 Oulu, Finland

2.2. General Information

EUT Description				
Model	INARI-E-10-WIG-1			
SN	Conducted: XBBA2FC1700102 Radiated: XBBA2FC1700039			
Hardware Version	EV1			
Software Version	007			
Power Supply	Battery / AC adapter			
Antenna Type	Chip Antenna			
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)			
Antenna Gain	Band		Antenna 1	Antenna 2
	U-NII-5		1.8dBi	0.2dBi
	U-NII-6		0.5dBi	1.3dBi
	U-NII-7		0.5dBi	1.3dBi
	U-NII-8		3.3dBi	3.2dBi
Directional Gain	MIMO	U-NII-5	1.07dBi	
		U-NII-6	0.92dBi	
		U-NII-7	0.92dBi	
		U-NII-8	3.25dBi	
	Beamforming	U-NII-5	4.81dBi	
		U-NII-6	4.31dBi	
		U-NII-7	4.31dBi	
		U-NII-8	6.31dBi	
Operating Frequency Range(s)	U-NII-5 (5925MHz-6425MHz) U-NII-6 (6425MHz-6525MHz) U-NII-7 (6525MHz-6875MHz) U-NII-8 (6875MHz-7125MHz)			
Modulation Type	802.11ax (HE20/ HE40/ HE80/ HE160): OFDMA			
Max. EIRP	19.11dBm			

Testing temperature range	-30 ° C to 50° C
Operating temperature range	-10 ° C to 50° C
Operating voltage range	3.2 V to 4.4 V
State DC voltage	3.85V
EUT Accessory	
Battery	Manufacturer: Shenzhen Guangwei Electronic Technology Co., Ltd. Model: AMME5260
Note:1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15E (2023) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 987594 D01 U-NII 6GHz General Requirements v02r02

KDB 987594 D02 U-NII 6GHz EMC Measurement v02r01

KDB 987594 D04 UN6GHZ Pre-Approval Guidance Checklist v02

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down (X axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Mode	Data Rate		
	SISO	MIMO	Beamforming
802.11ax (HE20)	MCS 0	MCS 0	MCS 0
802.11ax (HE40)	MCS 0	MCS 0	MCS 0
802.11ax (HE80)	MCS 0	MCS 0	MCS 0
802.11ax (HE160)	MCS 0	MCS 0	MCS 0

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	MIMO	Beamforming
Emission Bandwidth	--	--	--	O
Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	O	O	O	O
Peak Power Spectral Density (E.I.R.P.)	O	O	O	O
Frequency Stability	--	--	--	O
In-Band Emission (Mask)	--	--	--	O
Contention-Based Protocol	--	--	--	O
Unwanted Emissions	--	--	O	--
Conducted Emissions	--	--	802.11 ax HE20 CH209	--
Note: “O”: test all bands				

Wireless Technology and Frequency Range

Wireless Technology		Channel/ Frequency (MHz)	Channel/ Frequency (MHz)	Channel/ Frequency (MHz)	Channel/ Frequency (MHz)
		Bandwidth 20 MHz	Bandwidth 40 MHz	Bandwidth 80 MHz	Bandwidth 160 MHz
Wi-Fi	U-NII-5	1/5955	3/5965	7/5985	15/6025
		5/5975			
		9/5995	11/6005		
		13/6015			
		17/6035	19/6045	23/6065	
		21/6055			
		25/6075	27/6085		
		29/6095			
		33/6115	35/6125	39/6145	47/6185
		37/6135			
		41/6155	43/6165		
		45/6175			
		49/6195	51/6205	55/6225	
		53/6215			
		57/6235	59/6245		
		61/6255			
		65/6275	67/6285	71/6305	79/6345
		69/6295			
		73/6315	75/6325		
		77/6335			
		81/6355	83/6365	87/6385	
		85/6375			
		89/6395	91/6405		
		93/6415			
	U-NII-6	97/6435	99/6445	103/6465	111/6505
		101/6455			
		105/6475	107/6485		
		109/6495			
		113/6515	115/6525	119/6545	
	U-NII-7	117/6535			
		121/6555	123/6565		
		125/6575			
		129/6595	131/6605	135/6625	135/6665
		133/6615			
		137/6635	139/6645		

		141/6655			
		145/6675	147/6685	151/6705	
		149/6695			
		153/6715	155/6725		
		157/6735			
		161/6755	163/6765	167/6785	175/6825
		165/6775			
		169/6795	171/6805		
		173/6815			
		177/6835	179/6845	183/6865	
		181/6855			
		185/6875	187/6885		
	U-NII-8	189/6895			
		193/6915	195/6925	199/6945	207/6985
		197/6935			
		201/6955	203/6965		
		205/6975			
		209/6995	211/7005	215/7025	
		213/7015			
		217/7035	219/7045		
		221/7055			
		225/7075	227/7085	--	--
		229/7095			
		233/7115	--		

5. Test Case Results

5.1. Emission Bandwidth

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

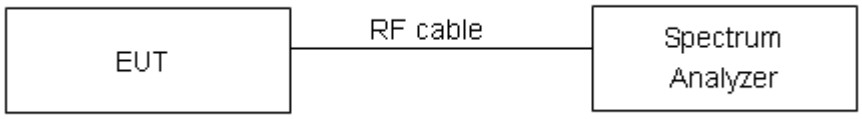
FOR 99% OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

FOR 26dB BANDWIDTH

a. Set RBW = approximately 1% of the emission bandwidth.
b. Set the VBW > RBW.
c. Detector = Peak.
d. Trace mode = max hold.
e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Test Setup



Limits

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320MHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

Test Results:

U-NII-5

Mode	Channel/ Frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20	CH 1/5955	18.942	21.343	PASS
	CH 45/6175	18.959	21.086	PASS
	CH 93/6415	18.950	20.876	PASS
802.11ax HE40	CH 03/5965	37.786	40.388	PASS
	CH 43/6165	37.771	40.690	PASS
	CH 91/6405	37.744	40.619	PASS
802.11ax HE80	CH 7/5985	77.441	83.684	PASS
	CH 39/6145	77.450	83.834	PASS
	CH 87/6385	77.503	83.530	PASS
802.11ax HE160	CH 15/6025	156.540	167.726	PASS
	CH 47/6185	156.170	167.655	PASS
	CH 79/6345	156.430	167.772	PASS

U-NII-6

Mode	Channel/ Frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20	CH 97/6435	18.935	21.274	PASS
	CH 105/6475	18.973	20.973	PASS
	CH 113/6515	18.934	20.981	PASS
802.11ax HE40	CH 99/6445	37.757	40.524	PASS
	CH 107/6485	37.778	40.786	PASS
	CH 115/6525	37.792	40.547	PASS
802.11ax HE80	CH 103/6465	77.444	84.168	PASS
	CH 119/6545	77.485	82.792	PASS
802.11ax HE160	CH 111/6505	156.470	166.934	PASS

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Mode	Channel/ Frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20	CH 117/6535	18.919	20.699	PASS
	CH 149/6695	18.939	21.072	PASS
	CH 181/6855	18.925	20.889	PASS
	CH 185/6875	18.939	21.150	PASS
802.11ax HE40	CH 115/6525	37.792	40.547	PASS
	CH 123/6565	37.750	40.549	PASS
	CH 147/6685	37.798	40.493	PASS
	CH 179/6845	37.823	40.356	PASS
	CH 187/6885	37.808	40.336	PASS
802.11ax HE80	CH 119/6545	77.485	82.792	PASS
	CH 135/6625	77.424	84.029	PASS
	CH 151/6705	77.487	83.752	PASS
	CH 167/6785	77.443	84.492	PASS
	CH 183/6865	77.391	84.227	PASS
802.11ax HE160	CH 111/6505	156.470	166.934	PASS
	CH 143/6665	156.810	168.447	PASS
	CH 175/6825	156.580	169.131	PASS

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Mode	Channel/ Frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20	CH 185/6875	18.939	21.150	PASS
	CH 189/6895	18.955	20.882	PASS
	CH 209/6995	18.913	21.026	PASS
	CH 229/7095	18.919	21.065	PASS
802.11ax HE40	CH 187/6885	37.808	40.336	PASS
	CH 203/6965	37.764	40.334	PASS
	CH 227/7085	37.761	40.357	PASS
802.11ax HE80	CH 183/6865	77.391	84.227	PASS
	CH 199/6945	77.506	83.609	PASS
	CH 215/7025	77.499	83.601	PASS
802.11ax HE160	CH 175/6825	156.580	169.131	PASS
	CH 207/6985	156.420	167.214	PASS

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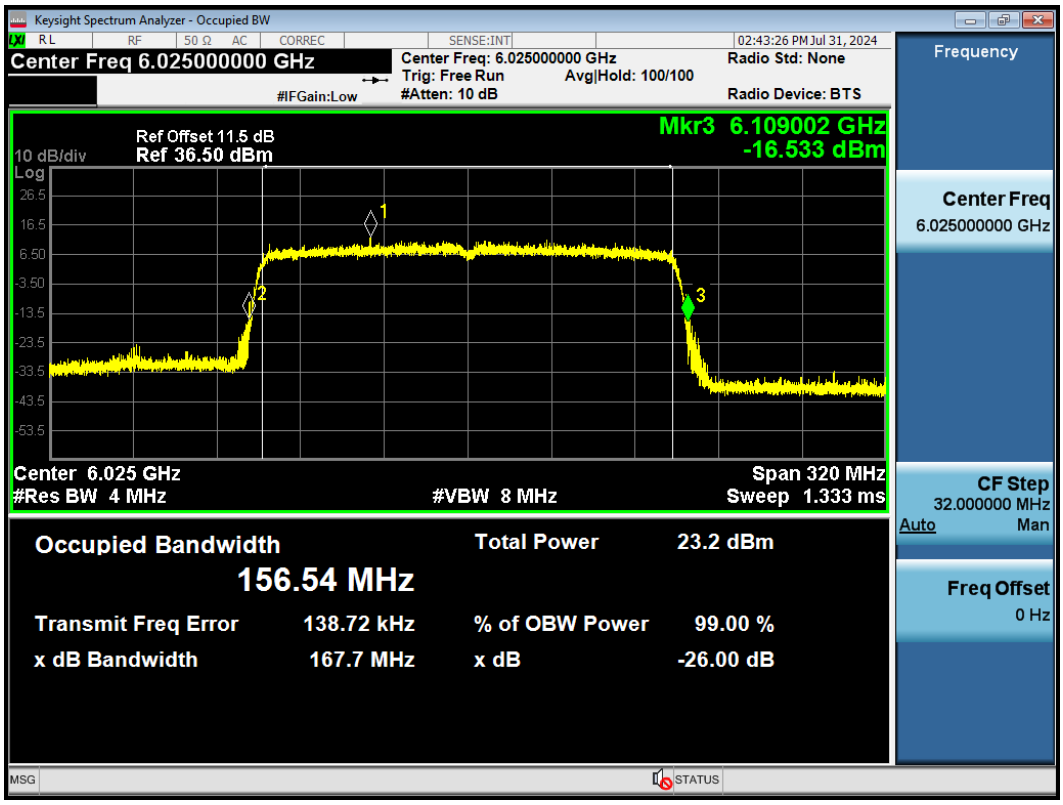
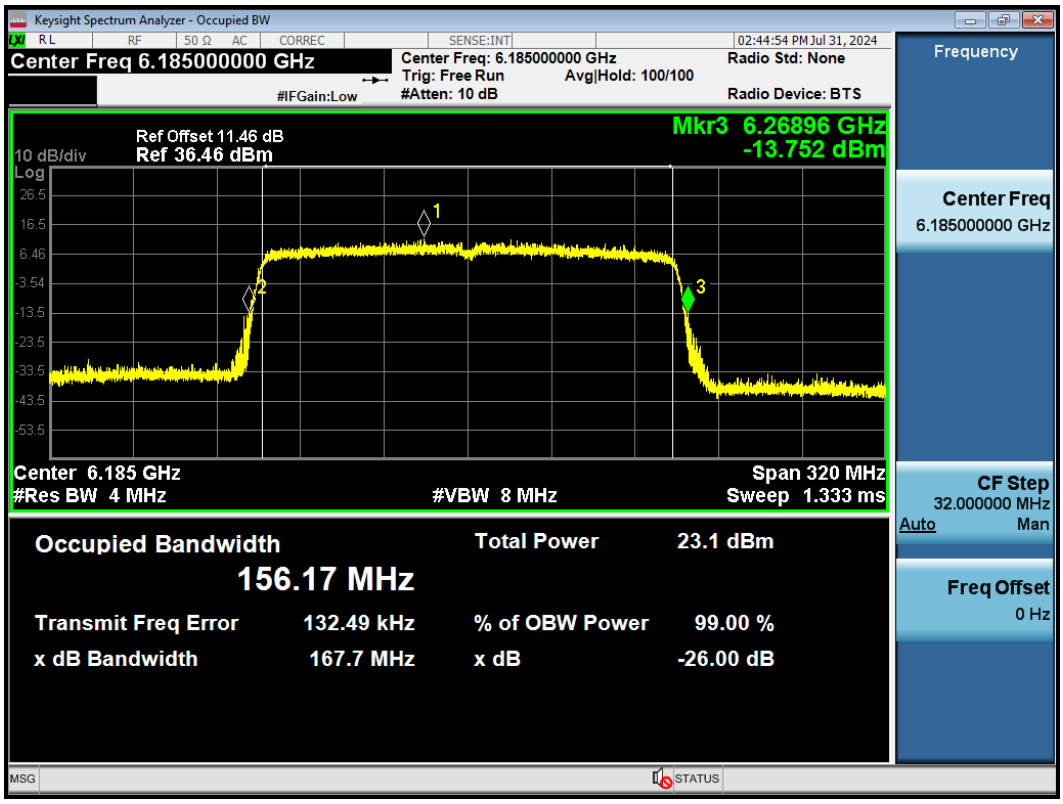
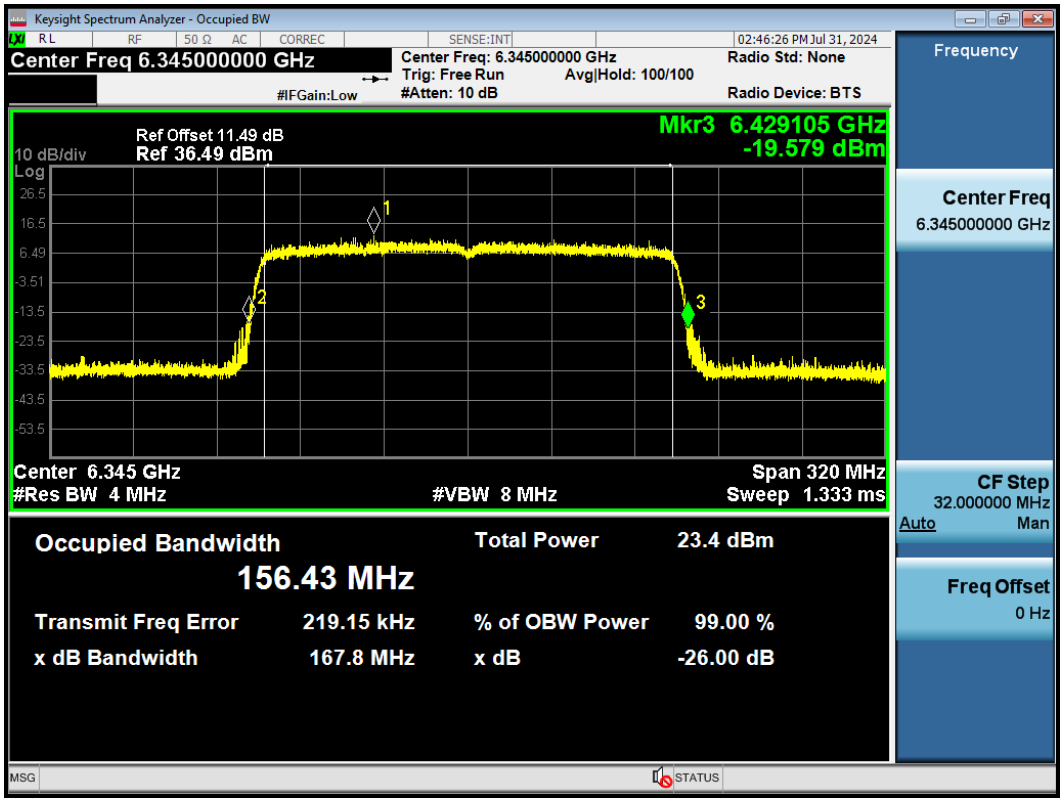
-26dB Bandwidth 802.11ax HE160 6025MHz



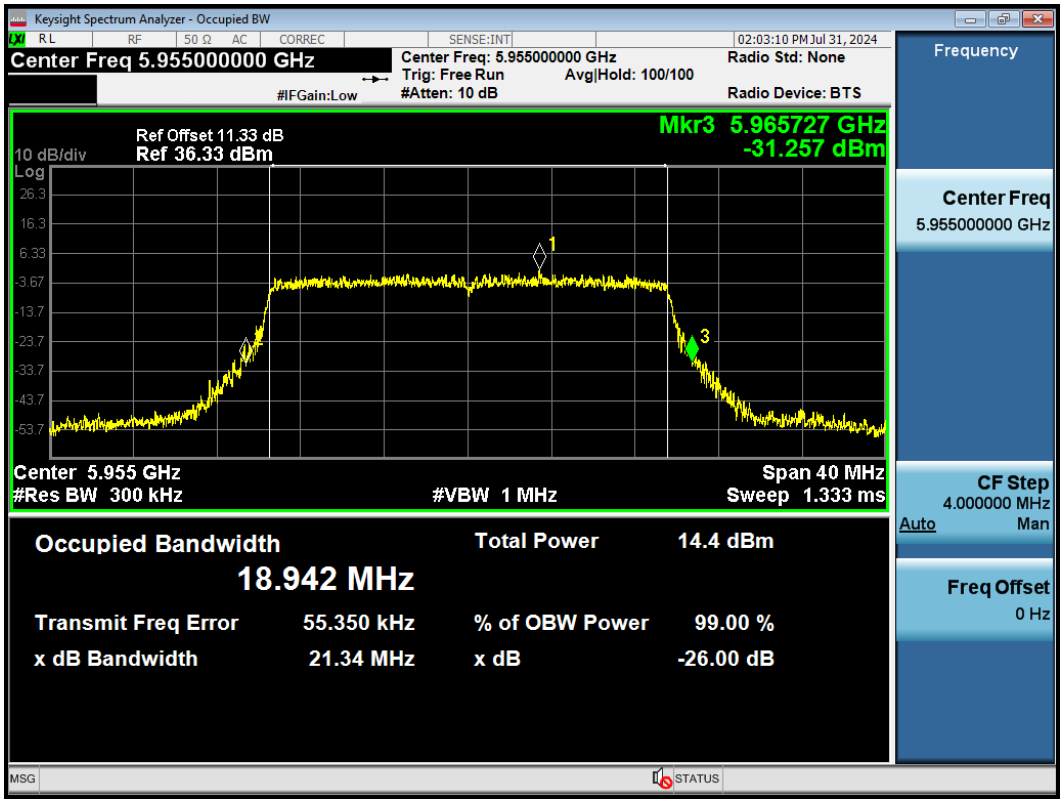
-26dB Bandwidth 802.11ax HE160 6185MHz



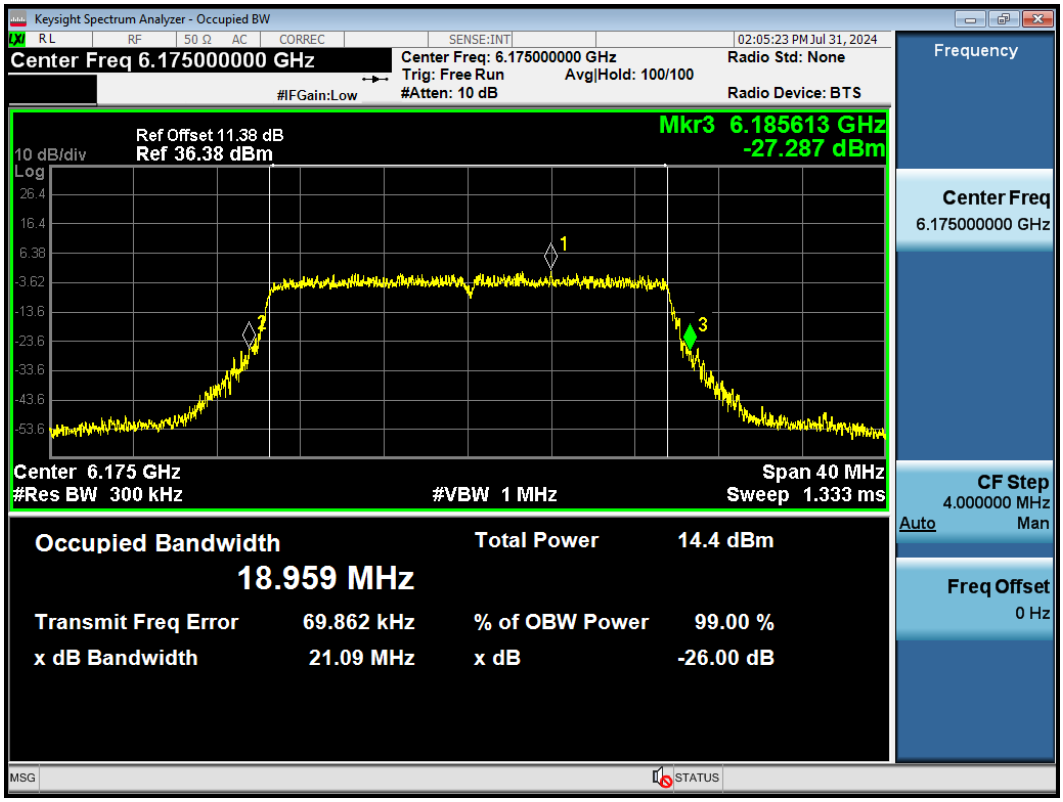
-26dB Bandwidth 802.11ax HE160 6345MHz



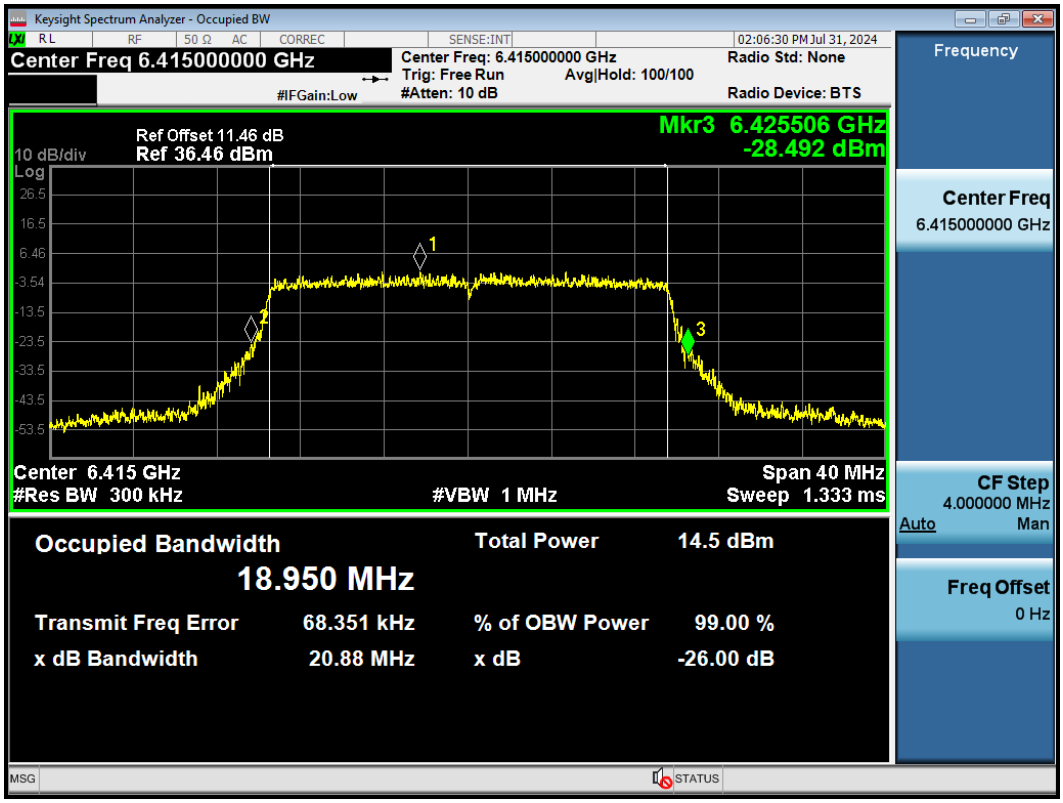
-26dB Bandwidth 802.11ax HE20 5955MHz



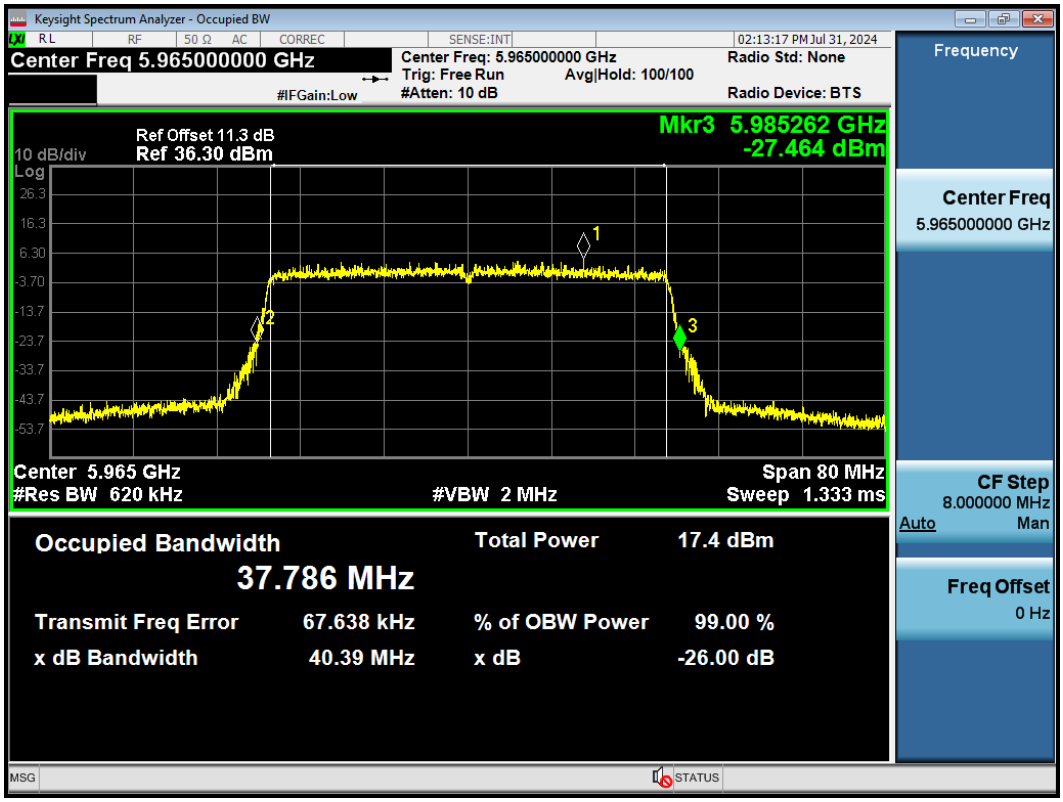
-26dB Bandwidth 802.11ax HE20 6175MHz



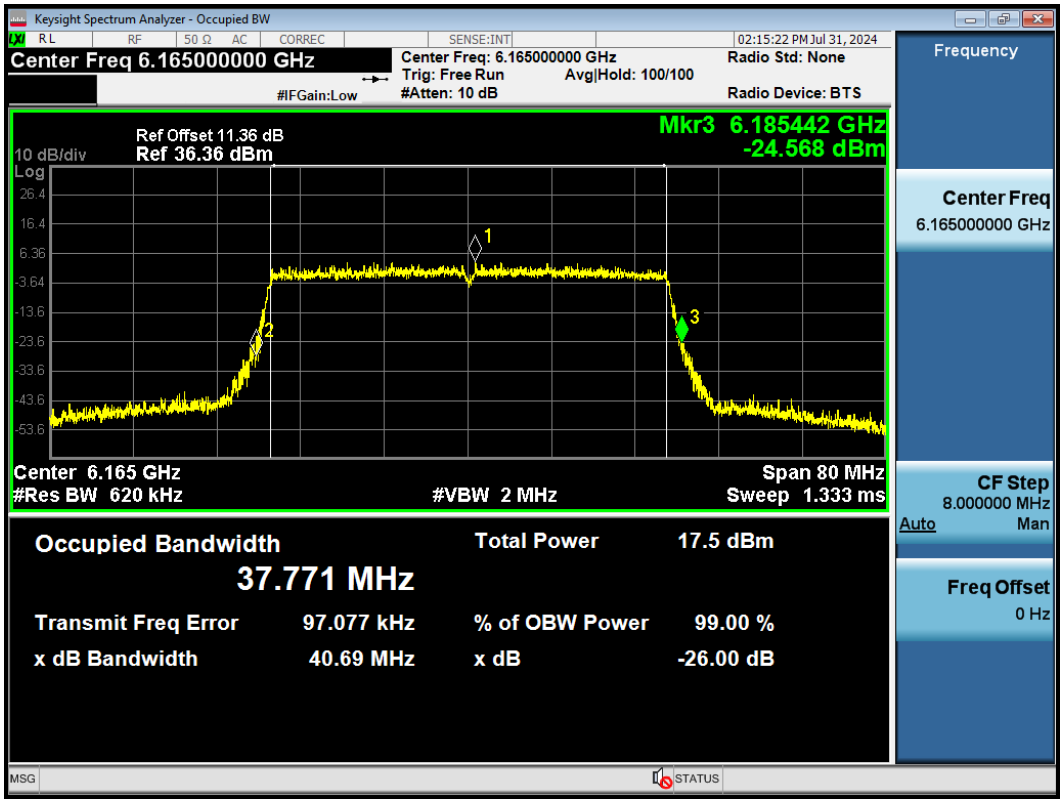
-26dB Bandwidth 802.11ax HE20 6415MHz



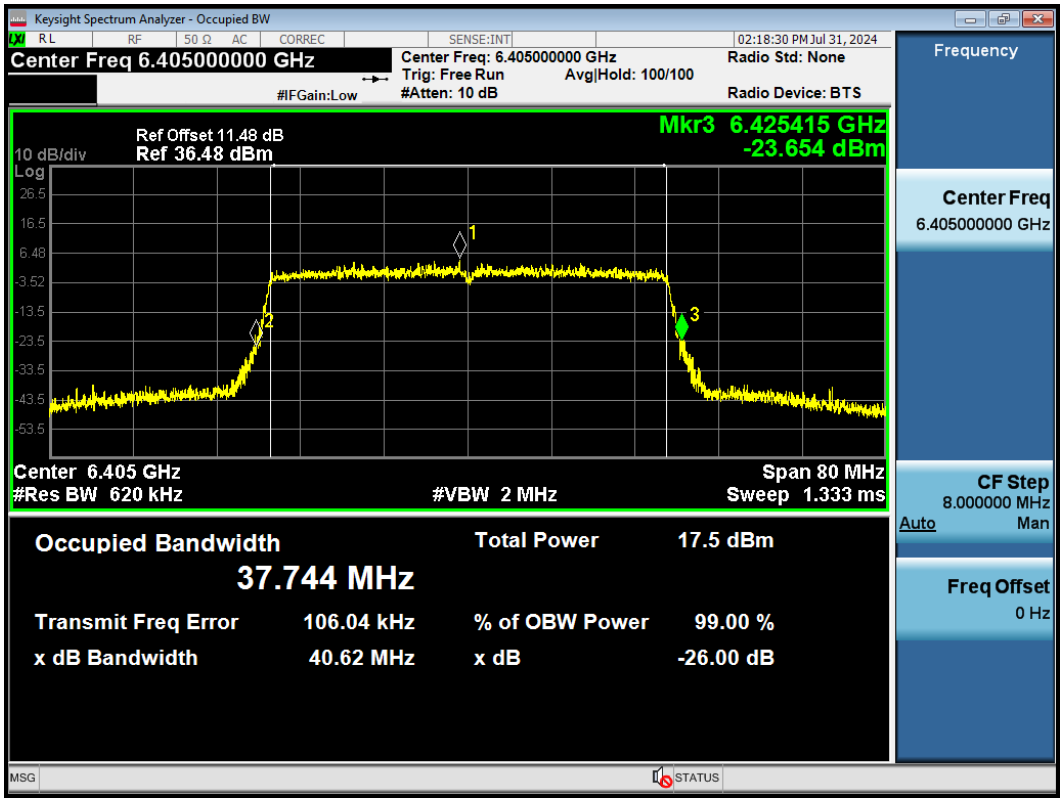
-26dB Bandwidth 802.11ax HE40 5965MHz



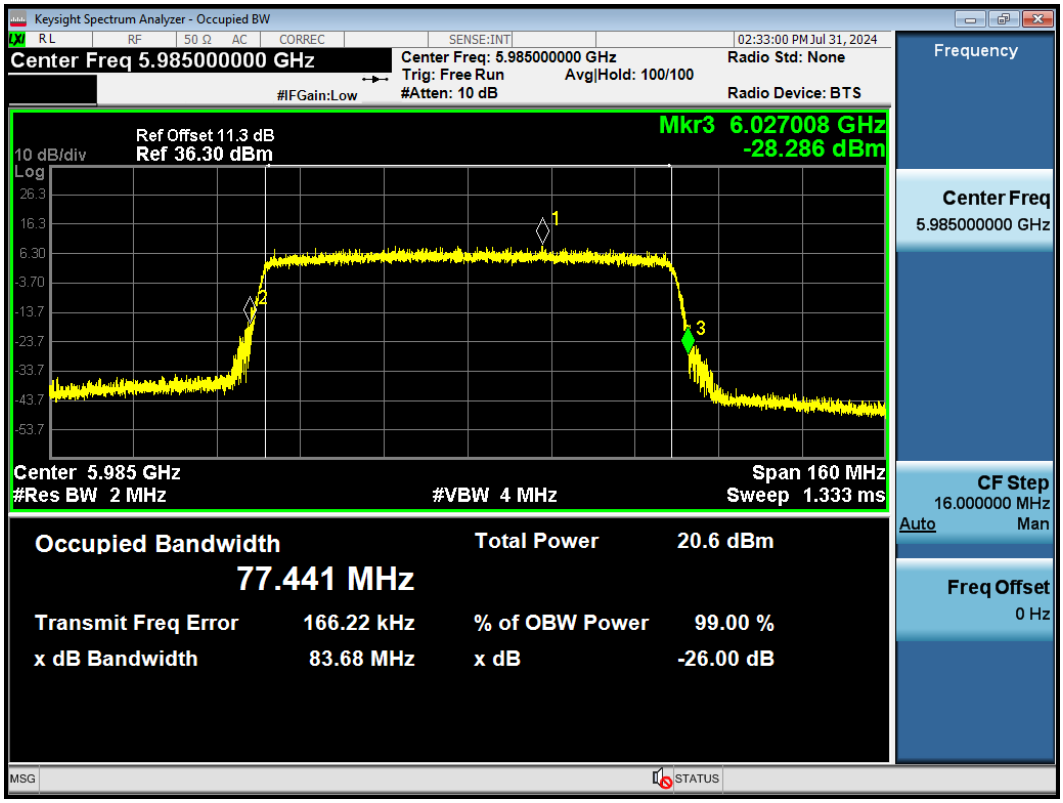
-26dB Bandwidth 802.11ax HE40 6165MHz



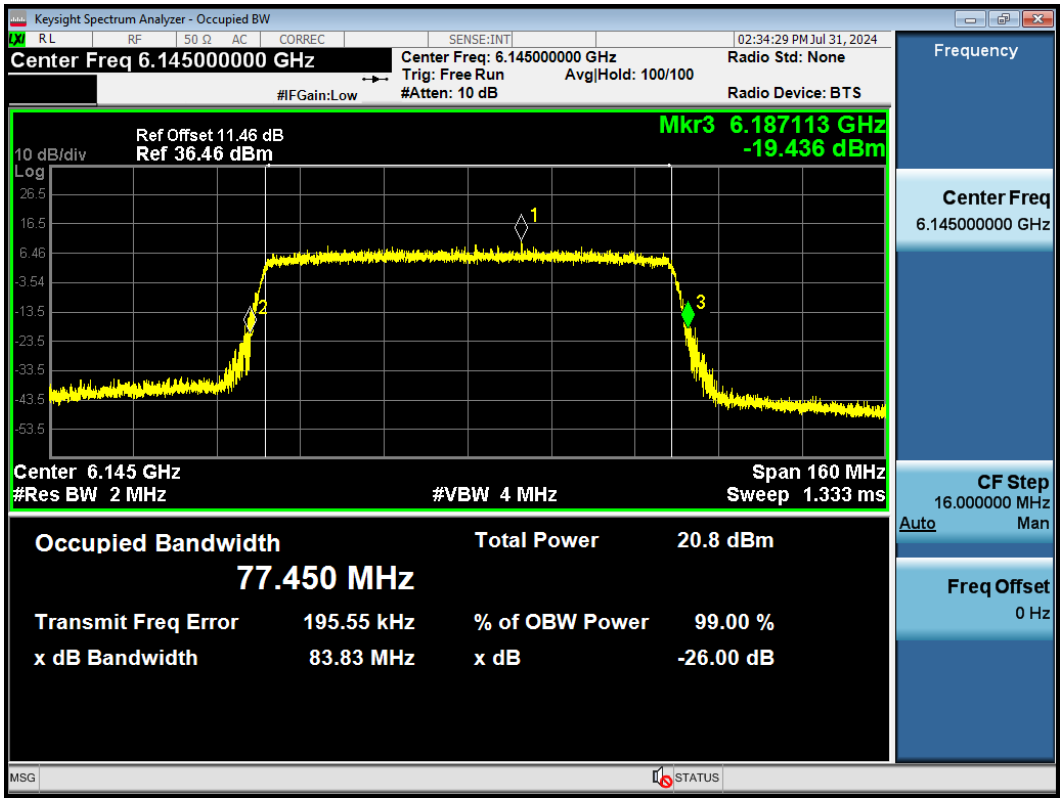
-26dB Bandwidth 802.11ax HE40 6405MHz



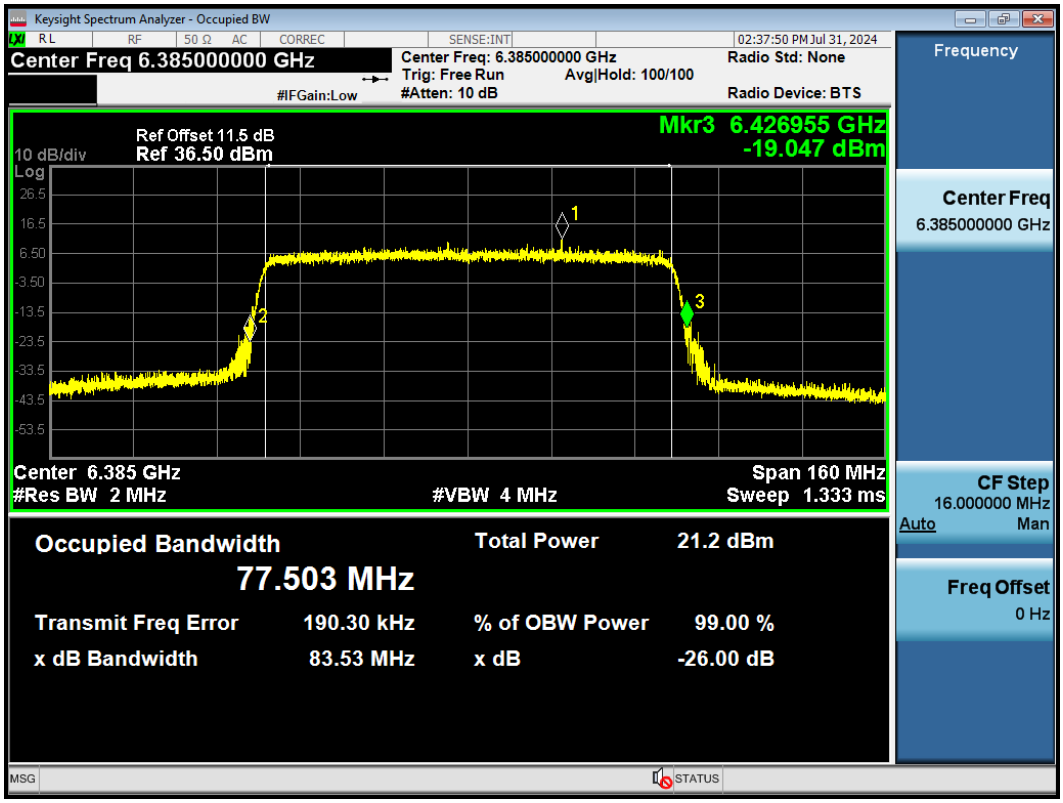
-26dB Bandwidth 802.11ax HE80 5985MHz



-26dB Bandwidth 802.11ax HE80 6145MHz



-26dB Bandwidth 802.11ax HE80 6385MHz



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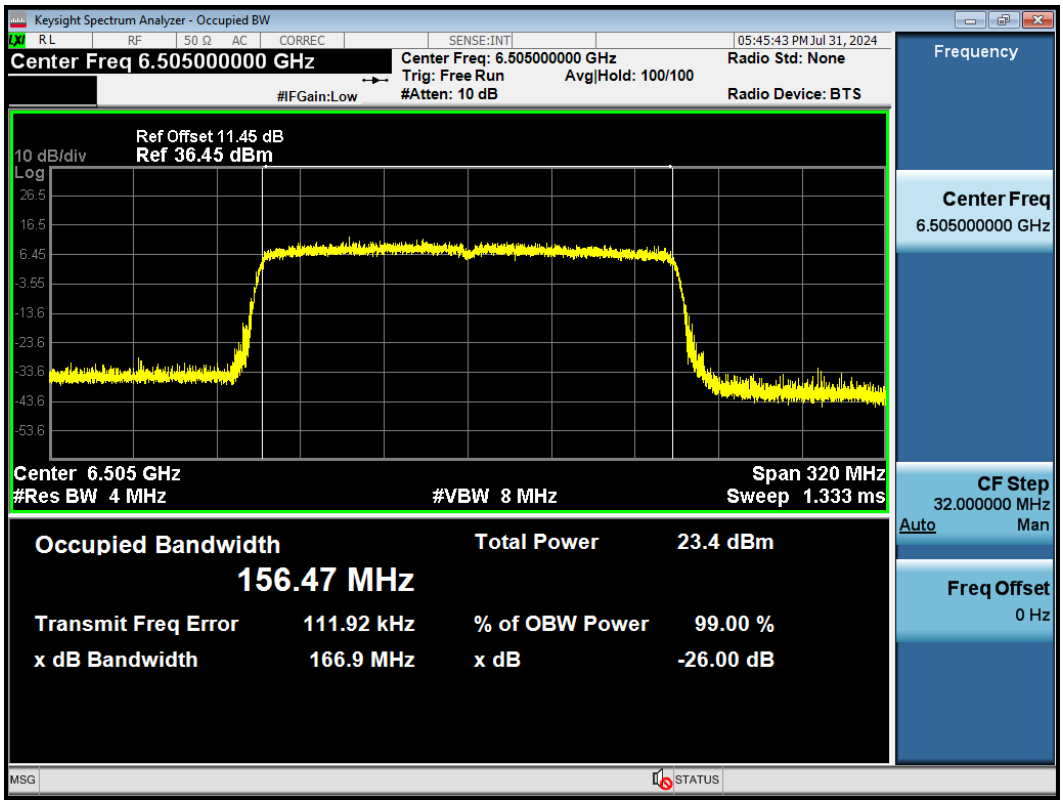
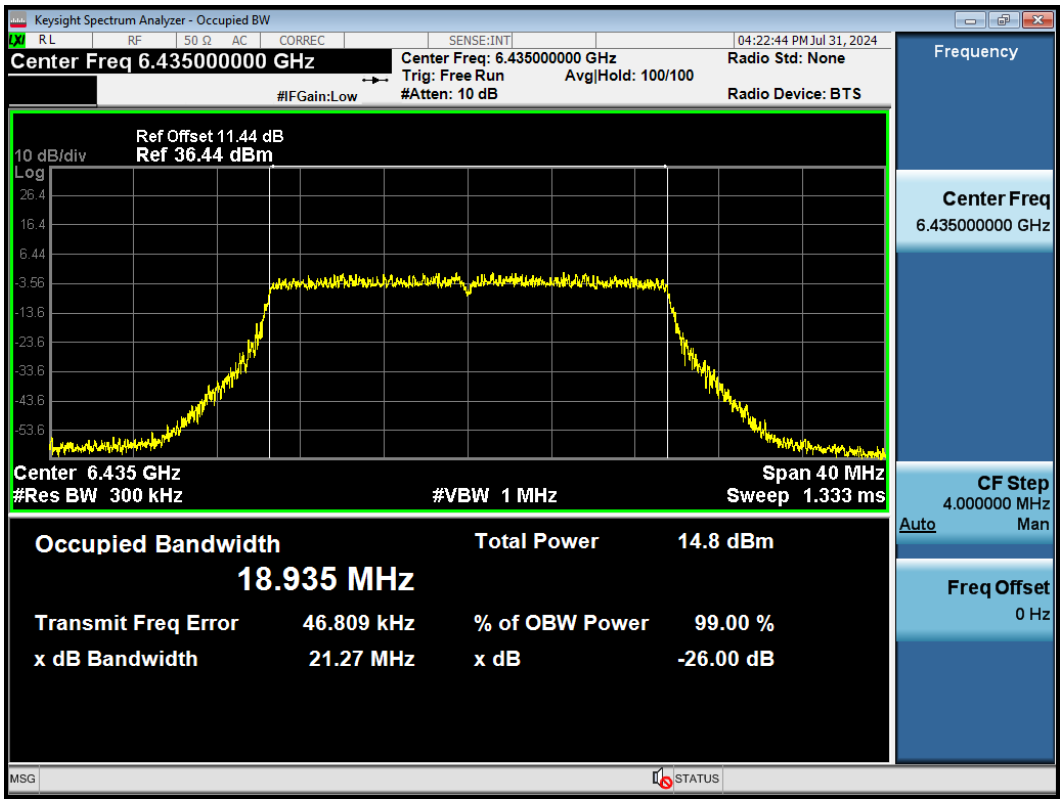
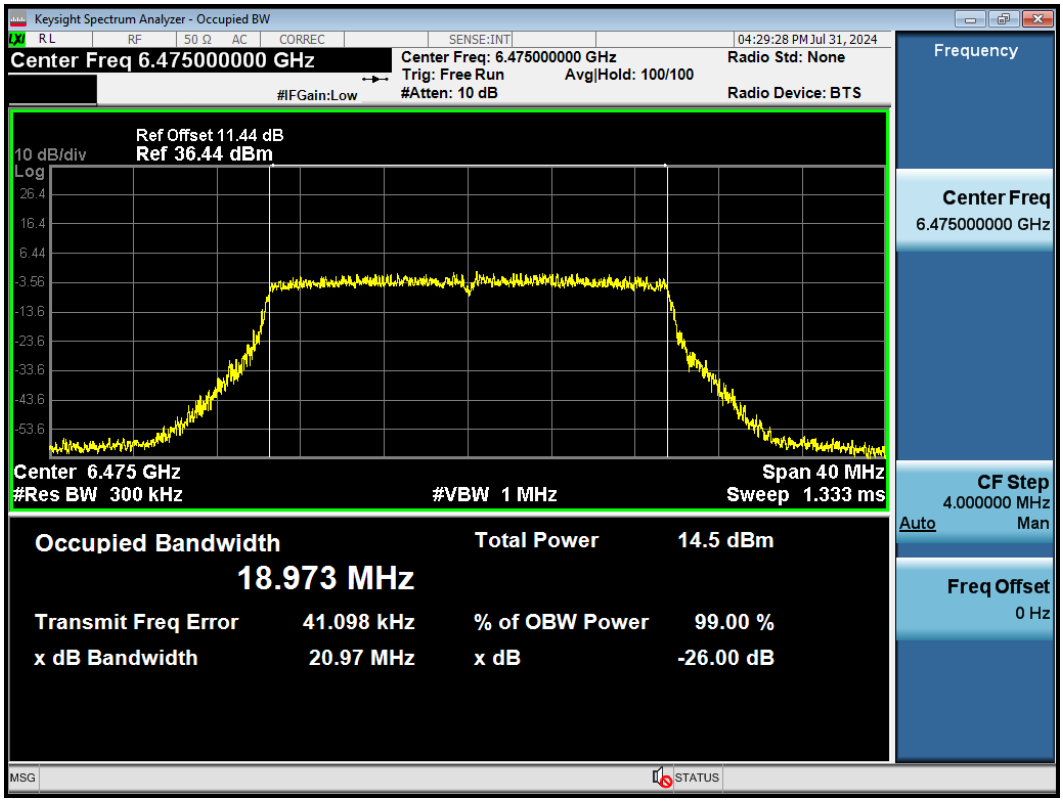
-26dB Bandwidth 802.11ax HE160 6505MHz



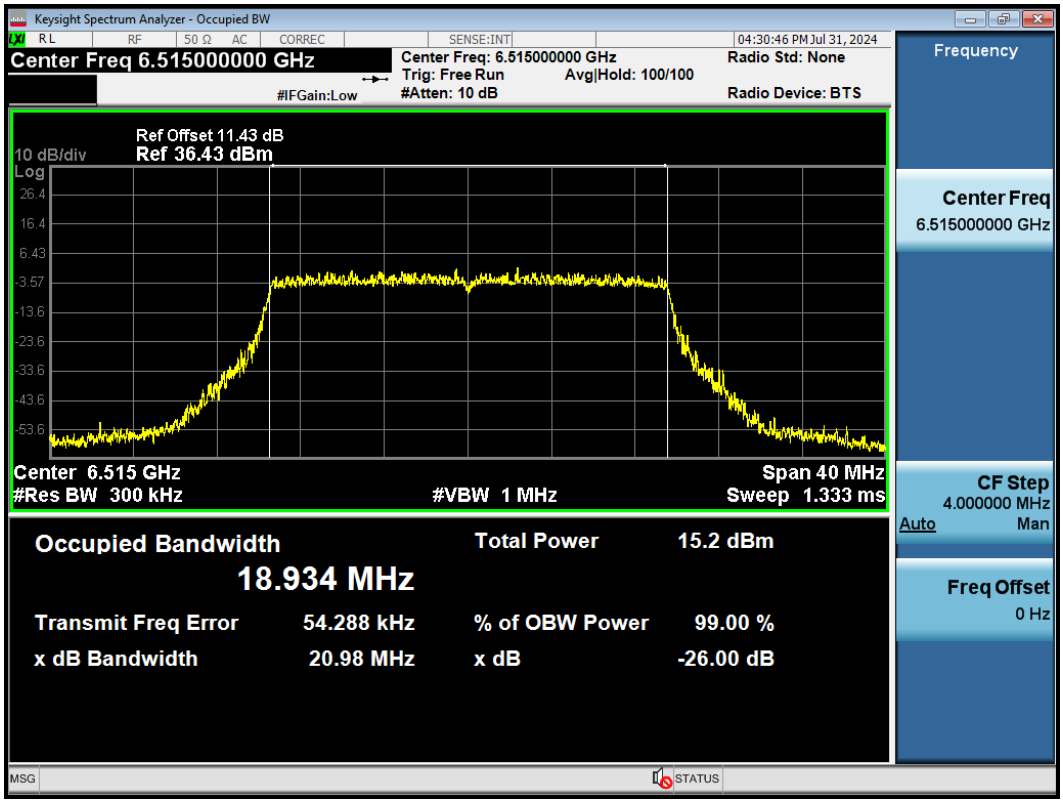
-26dB Bandwidth 802.11ax HE20 6435MHz



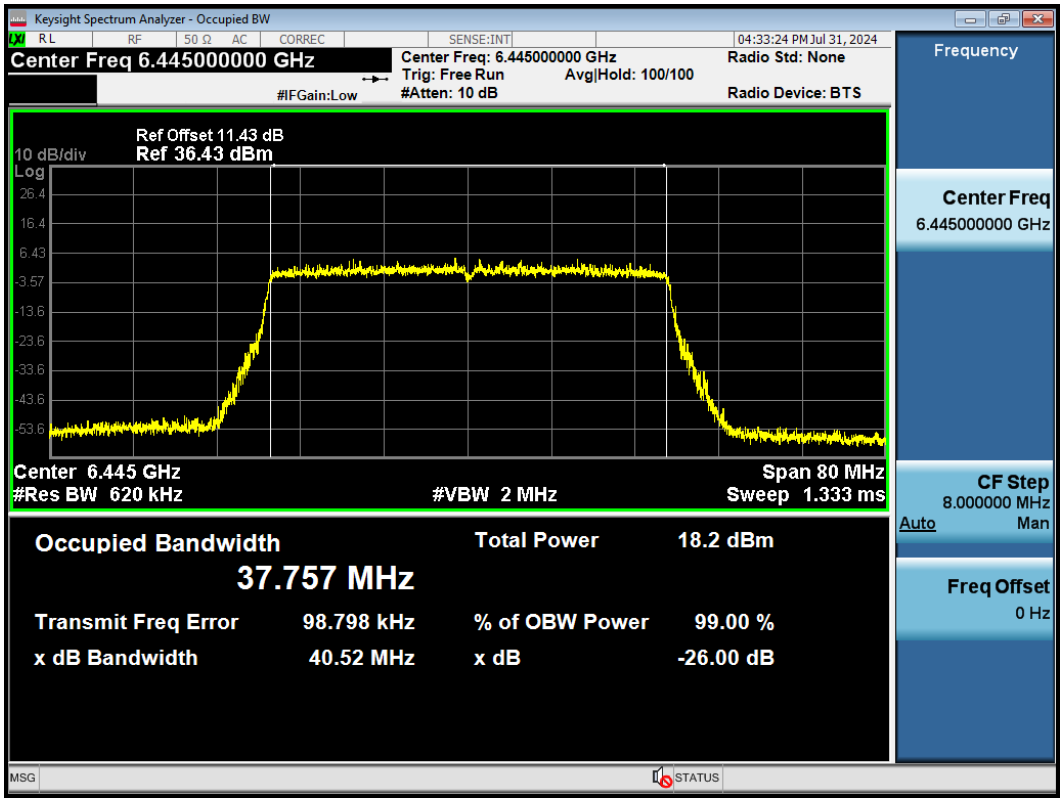
-26dB Bandwidth 802.11ax HE20 6475MHz



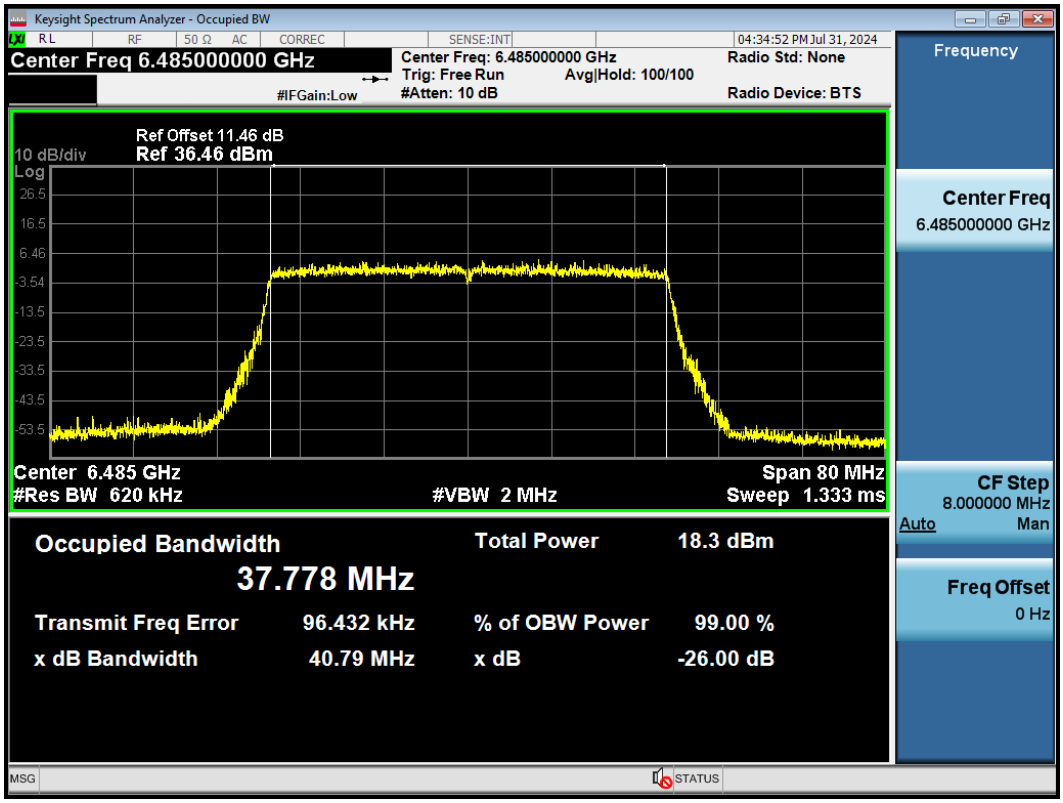
-26dB Bandwidth 802.11ax HE20 6515MHz



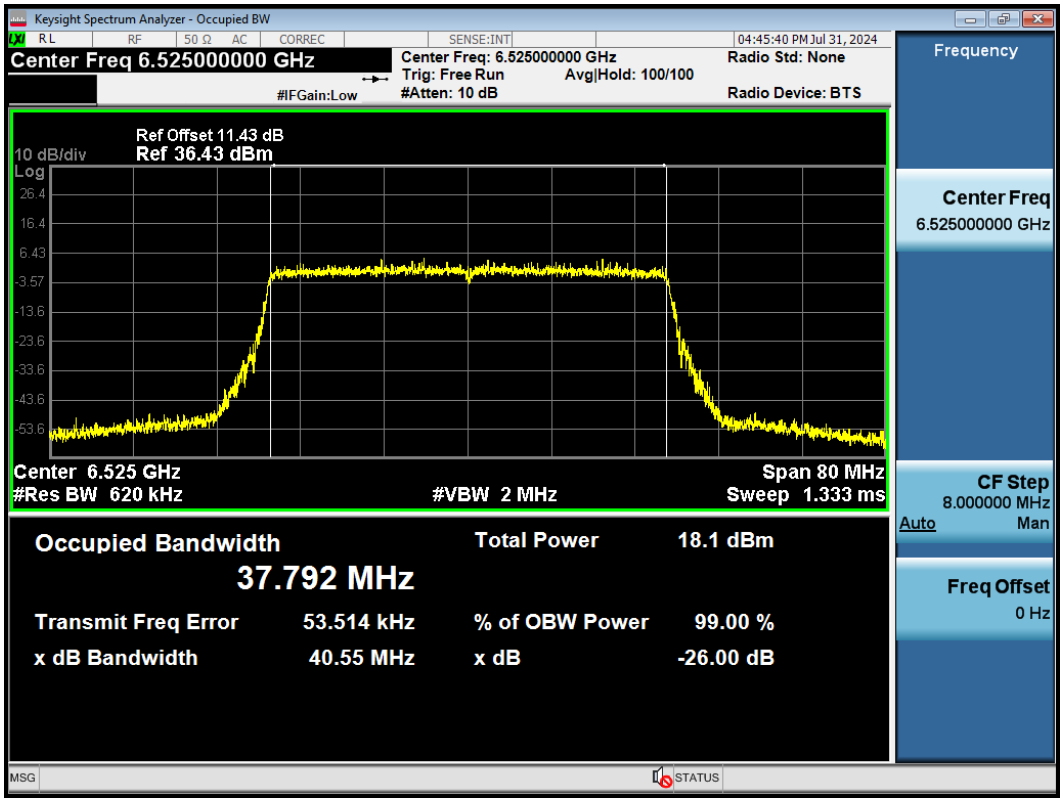
-26dB Bandwidth 802.11ax HE40 6445MHz



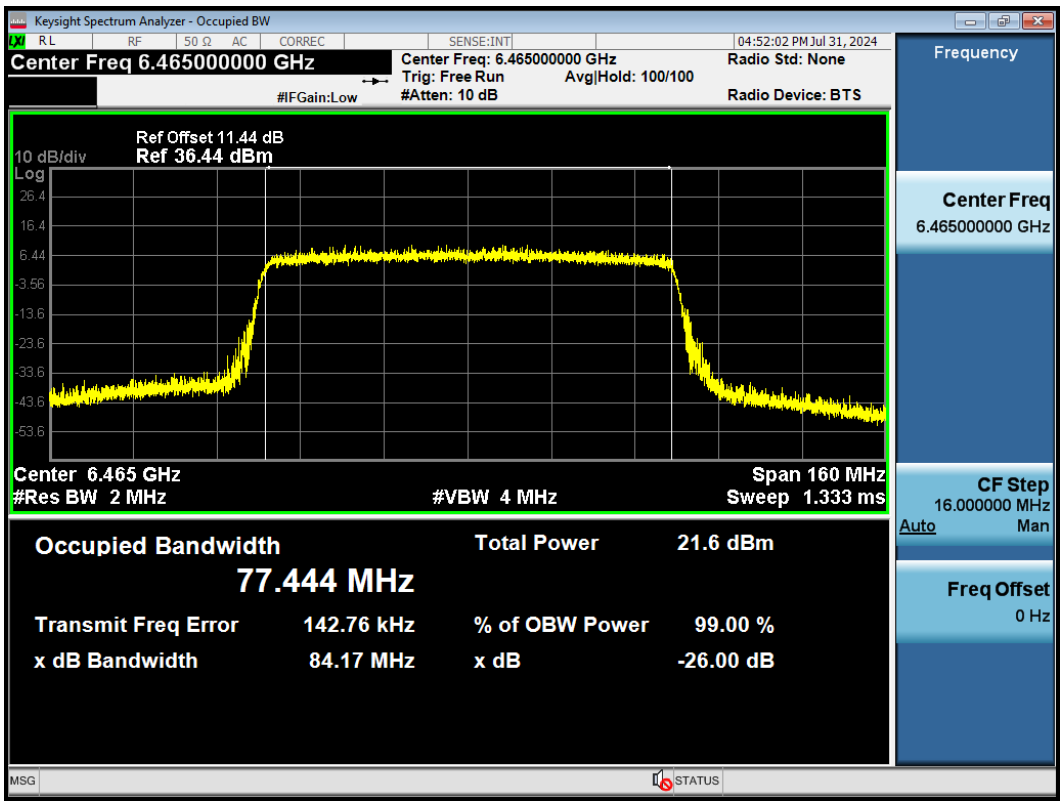
-26dB Bandwidth 802.11ax HE40 6485MHz



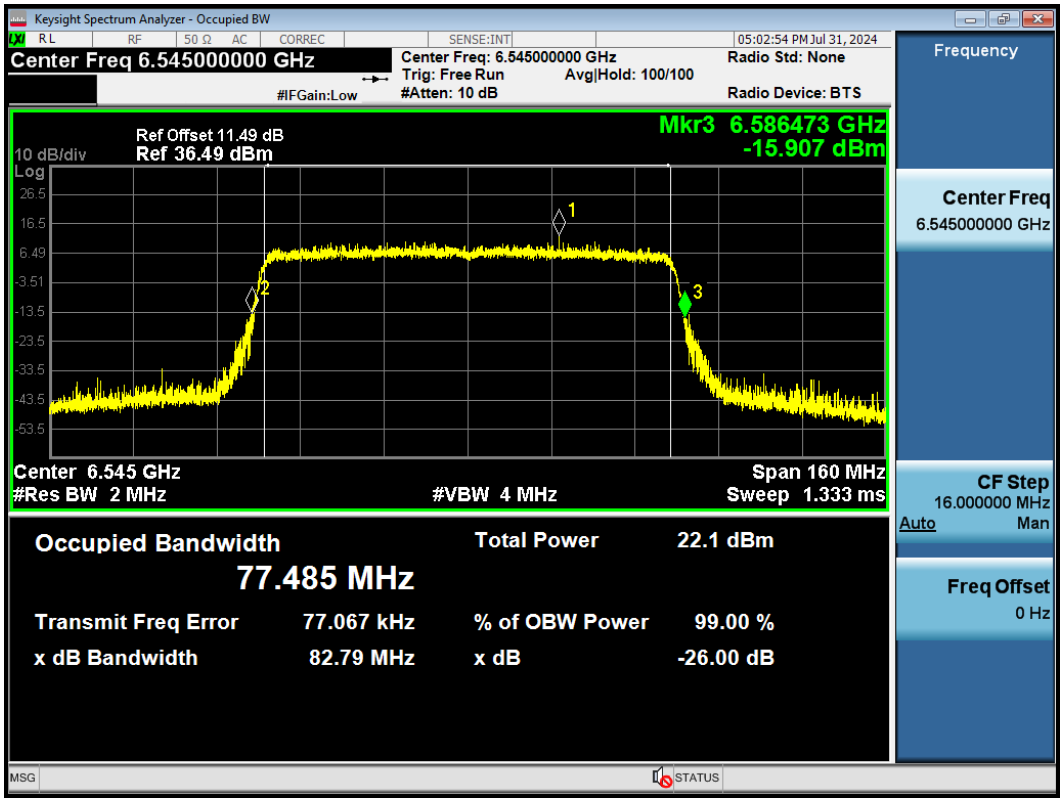
-26dB Bandwidth 802.11ax HE40 6525MHz



-26dB Bandwidth 802.11ax HE80 6465MHz

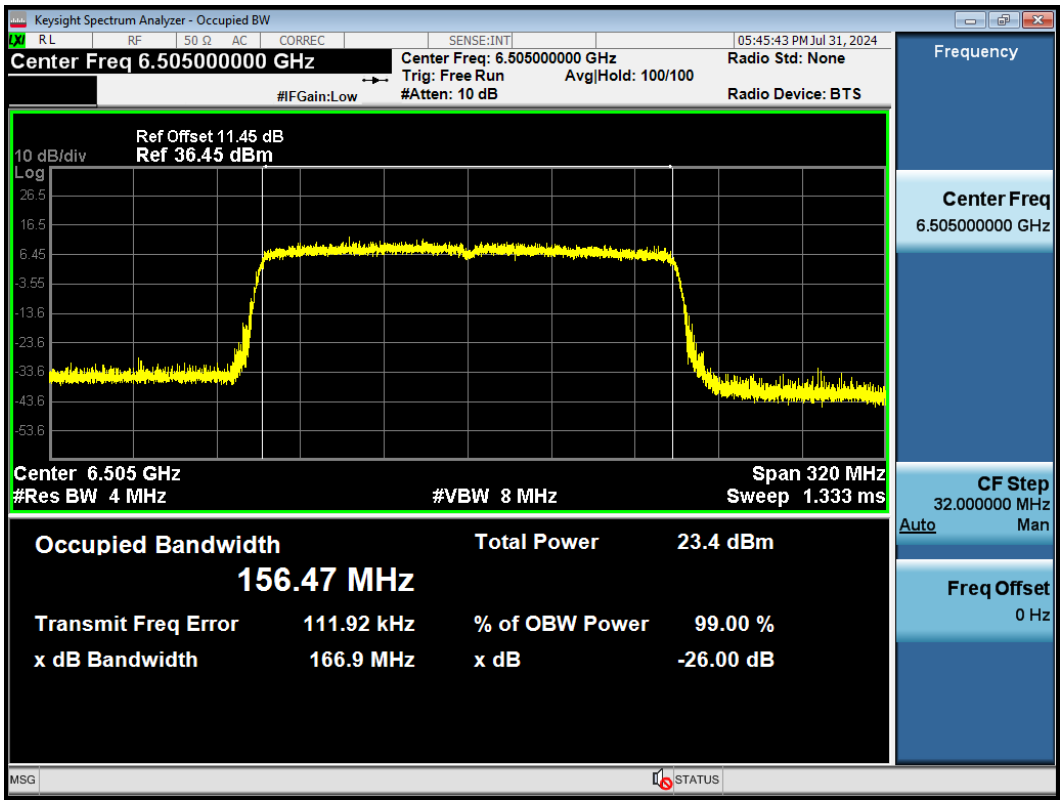


-26dB Bandwidth 802.11ax HE80 6545MHz

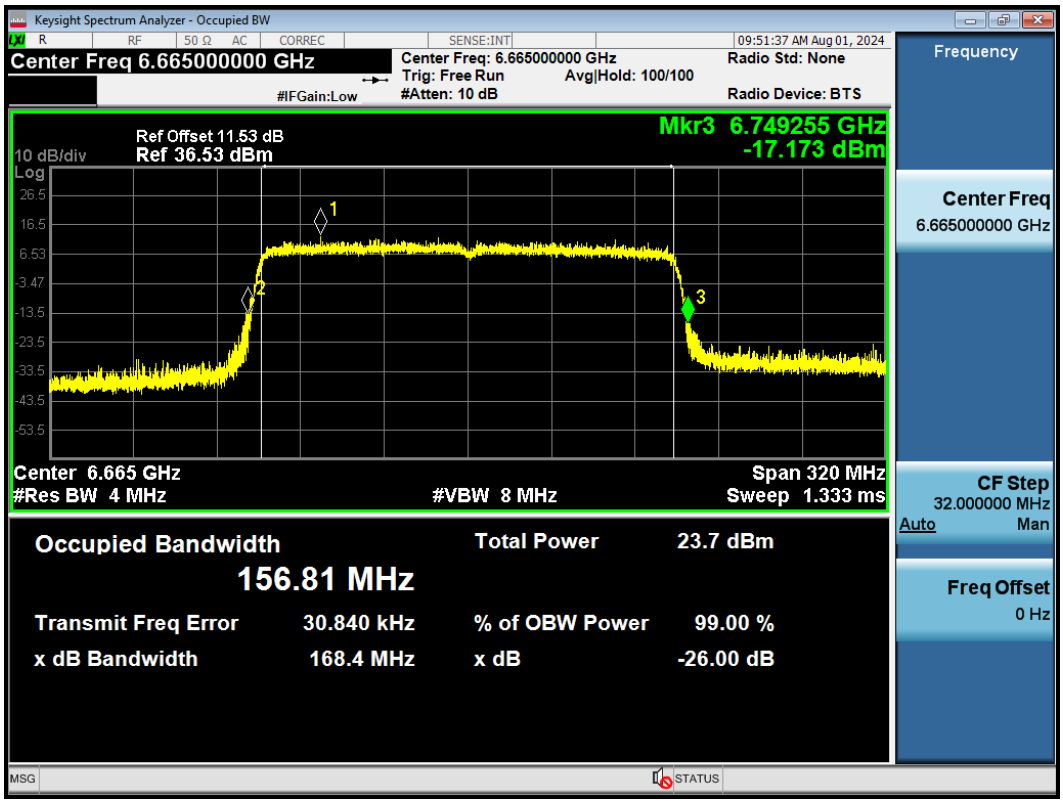


U-NII-7

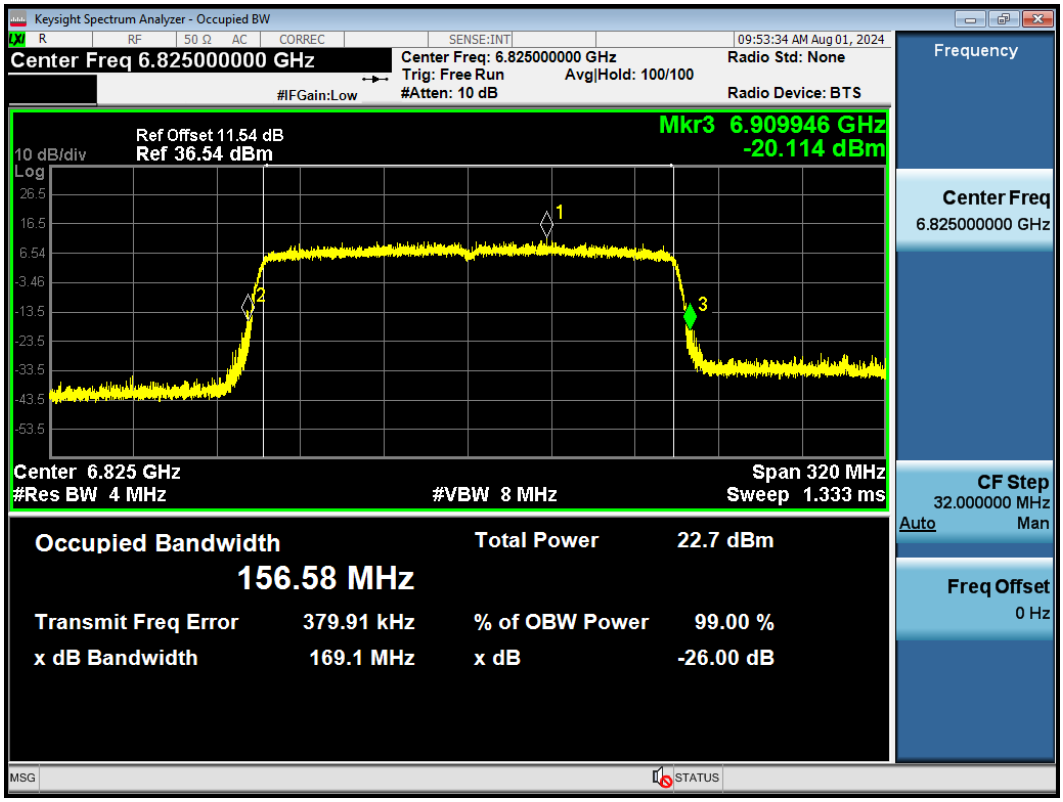
-26dB Bandwidth 802.11ax HE160 6505MHz



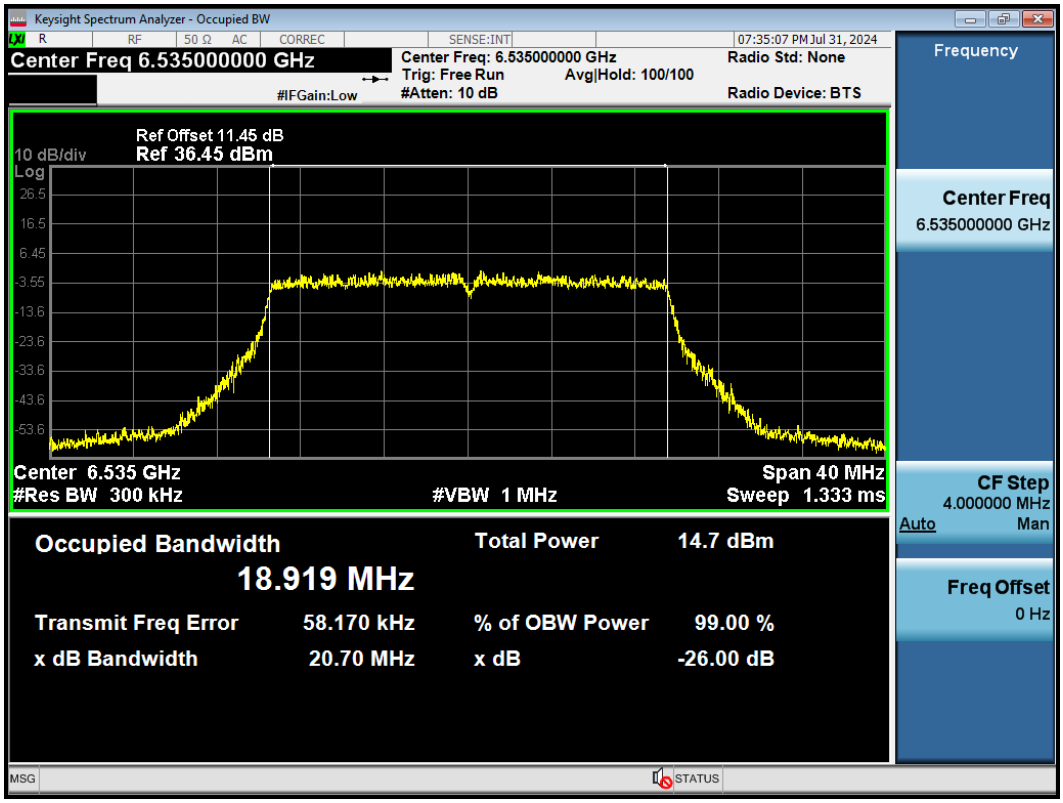
-26dB Bandwidth 802.11ax HE160 6665MHz



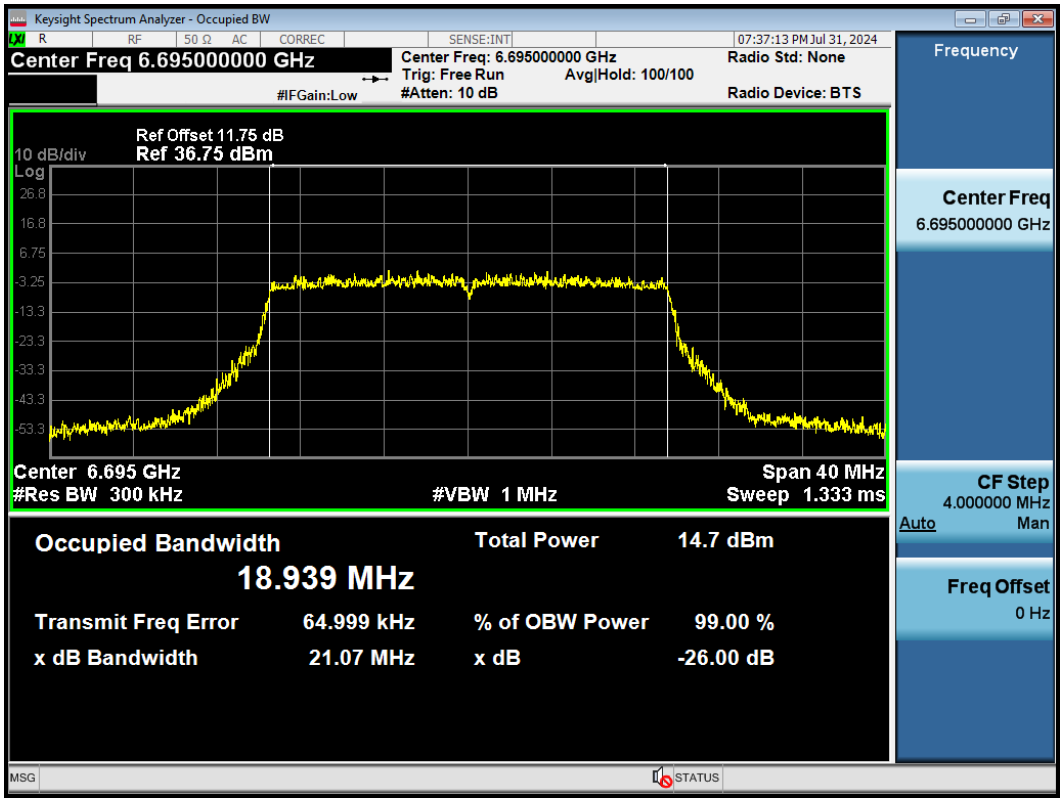
-26dB Bandwidth 802.11ax HE160 6825MHz



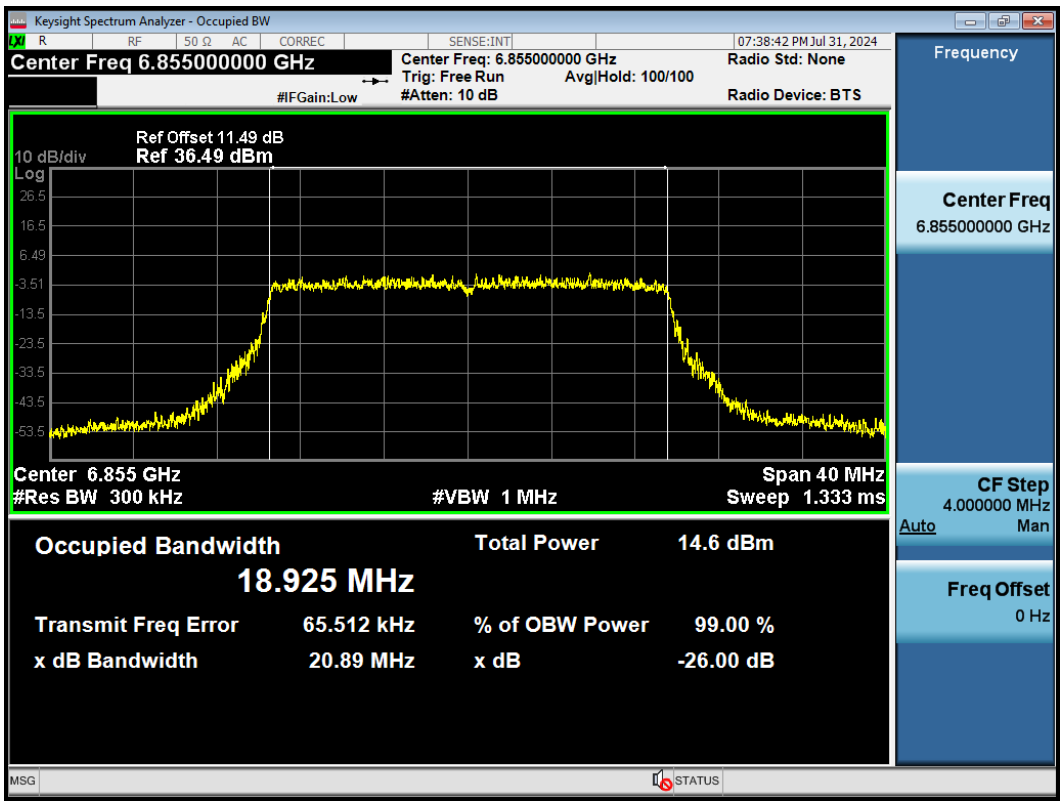
-26dB Bandwidth 802.11ax HE20 6535MHz



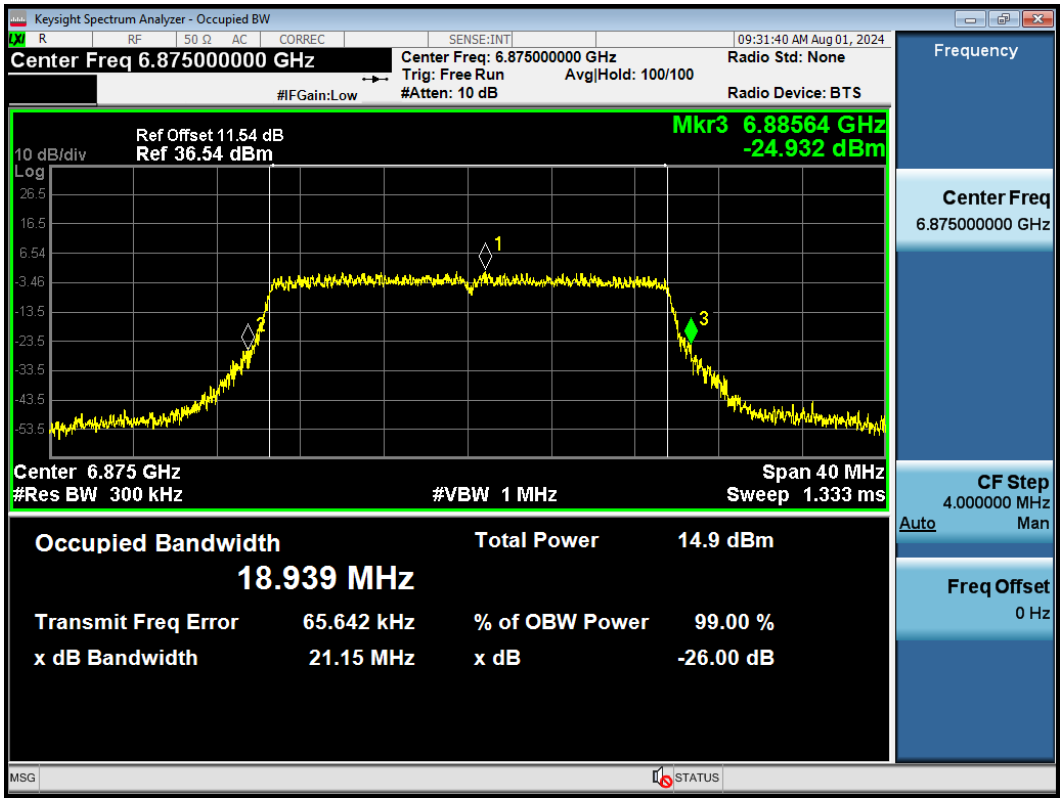
-26dB Bandwidth 802.11ax HE20 6695MHz



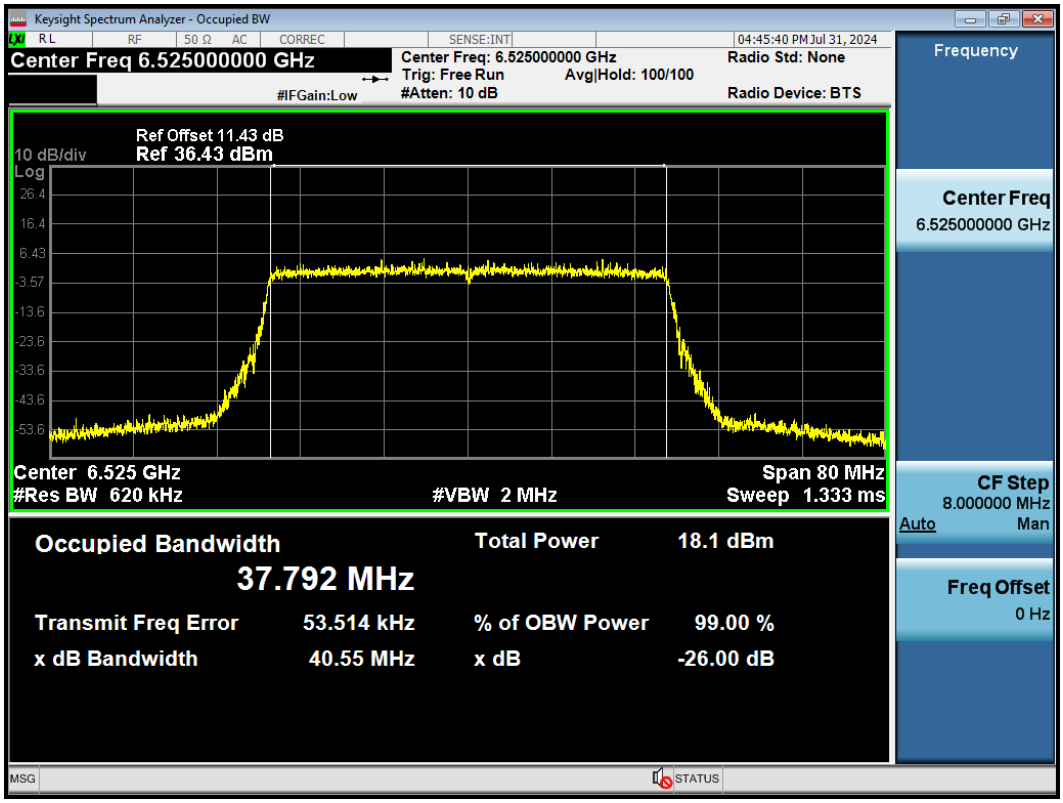
-26dB Bandwidth 802.11ax HE20 6855MHz



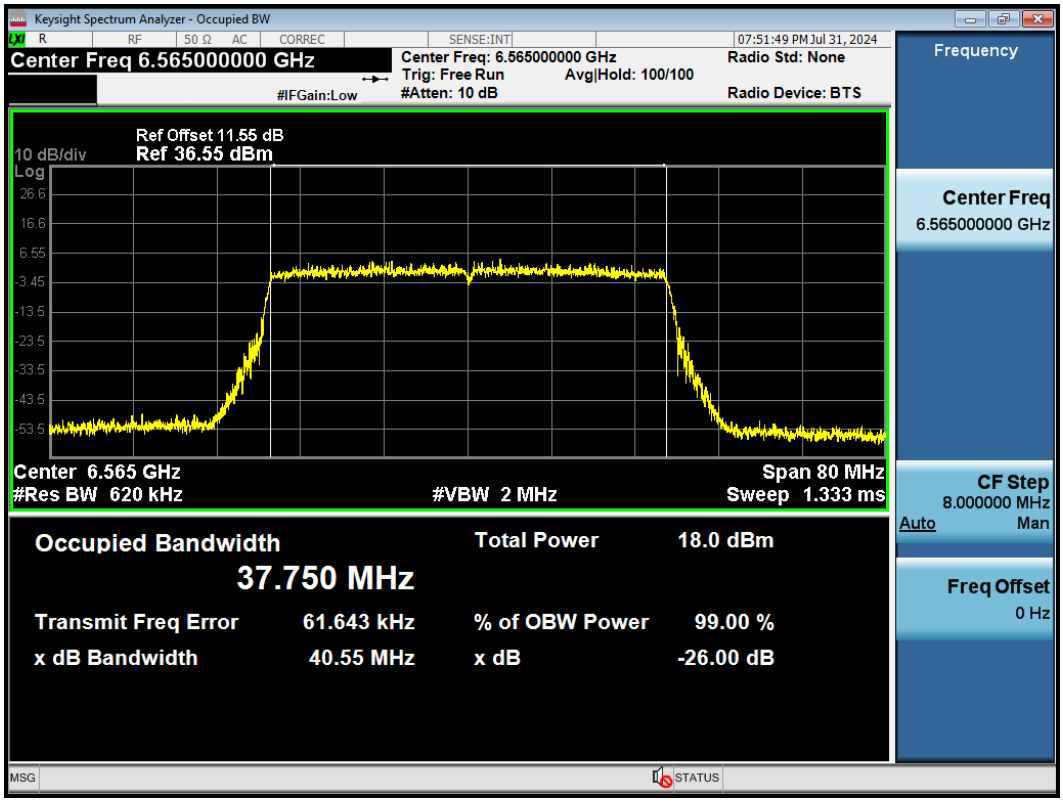
-26dB Bandwidth 802.11ax HE20 6875MHz



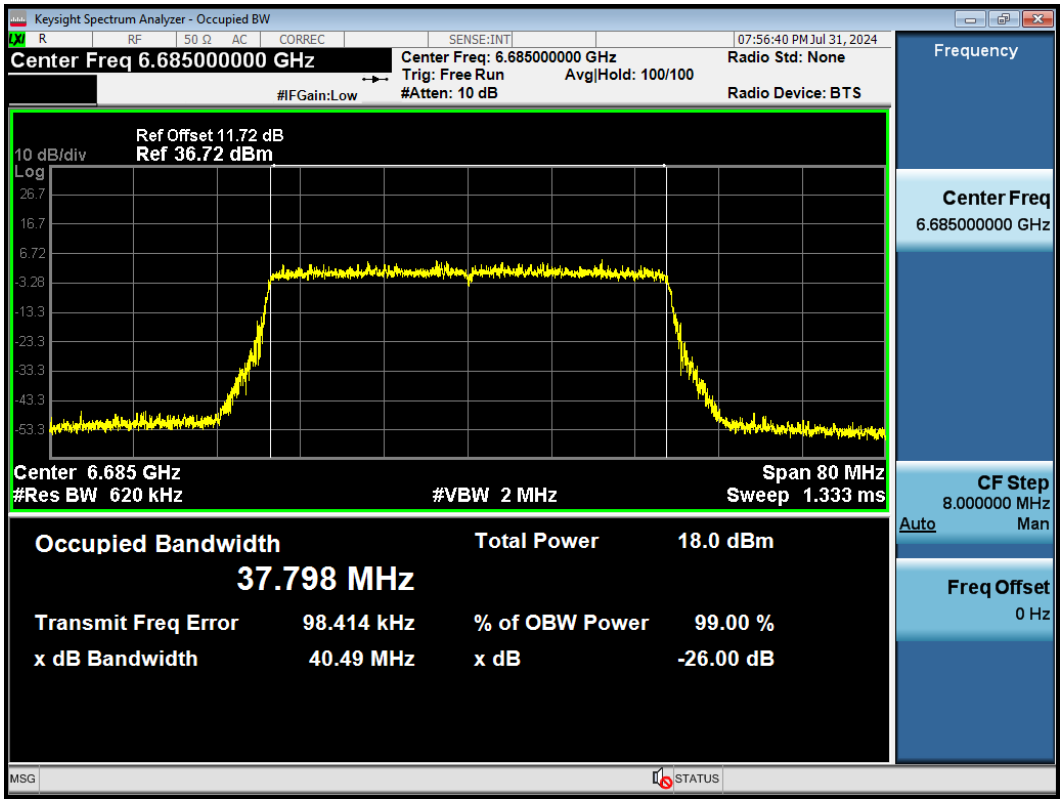
-26dB Bandwidth 802.11ax HE40 6525MHz



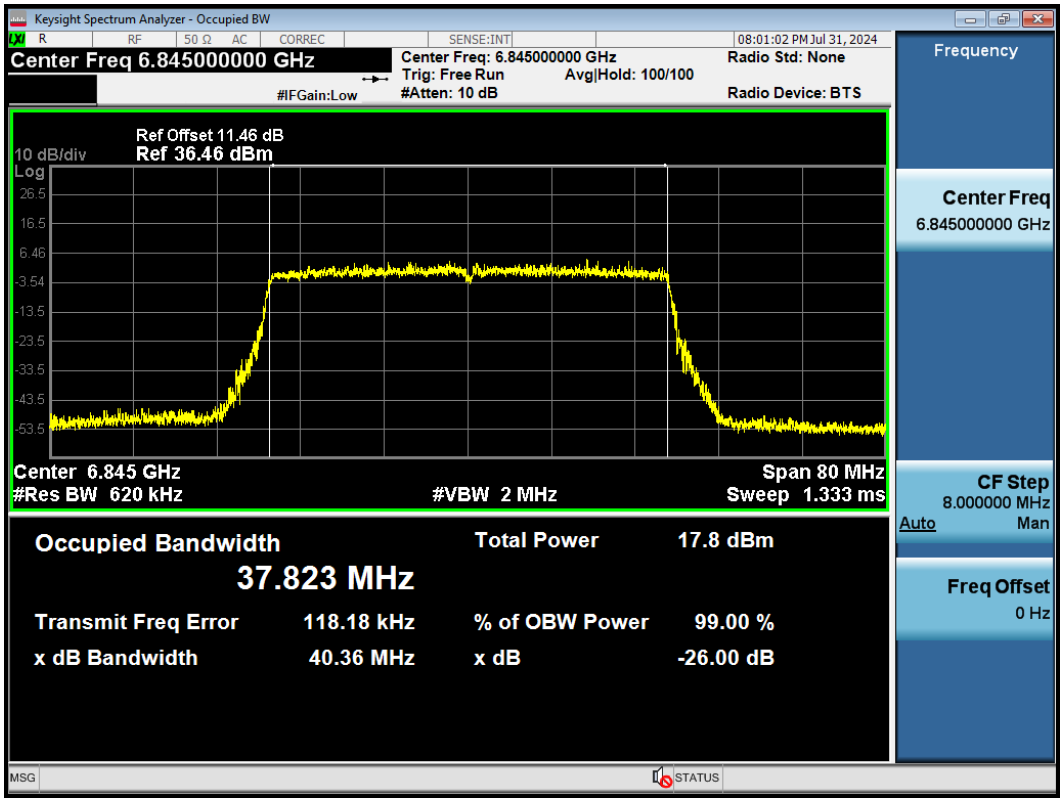
-26dB Bandwidth 802.11ax HE40 6565MHz



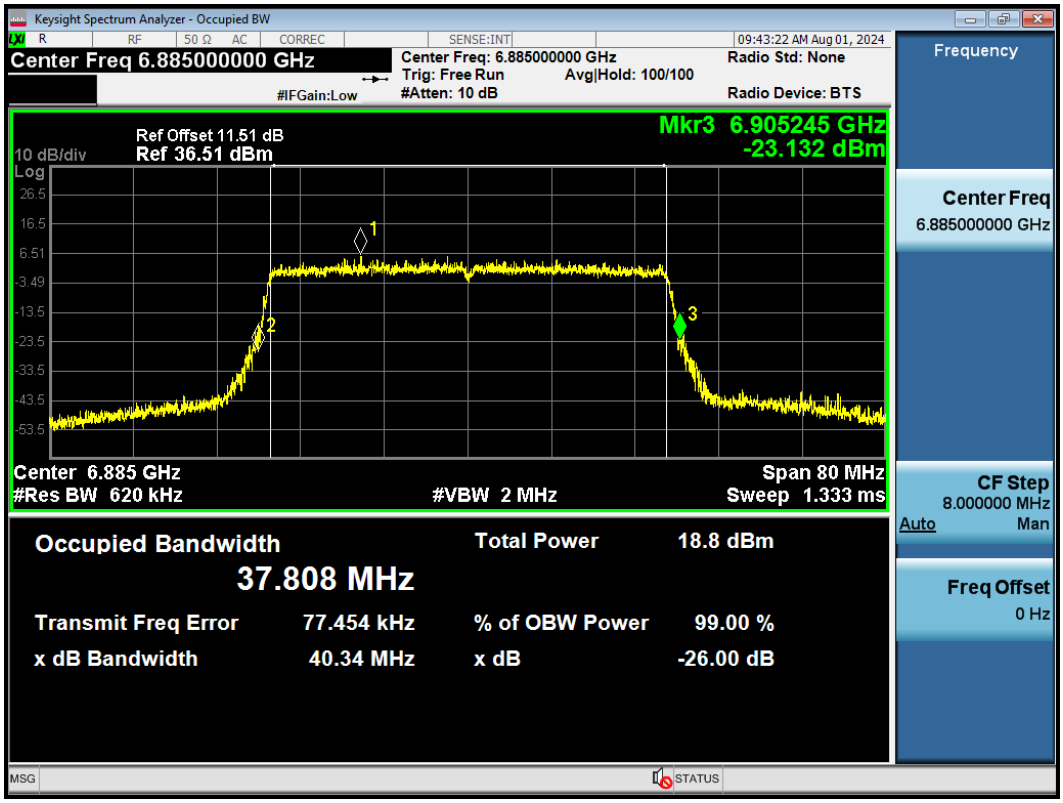
-26dB Bandwidth 802.11ax HE40 6685MHz



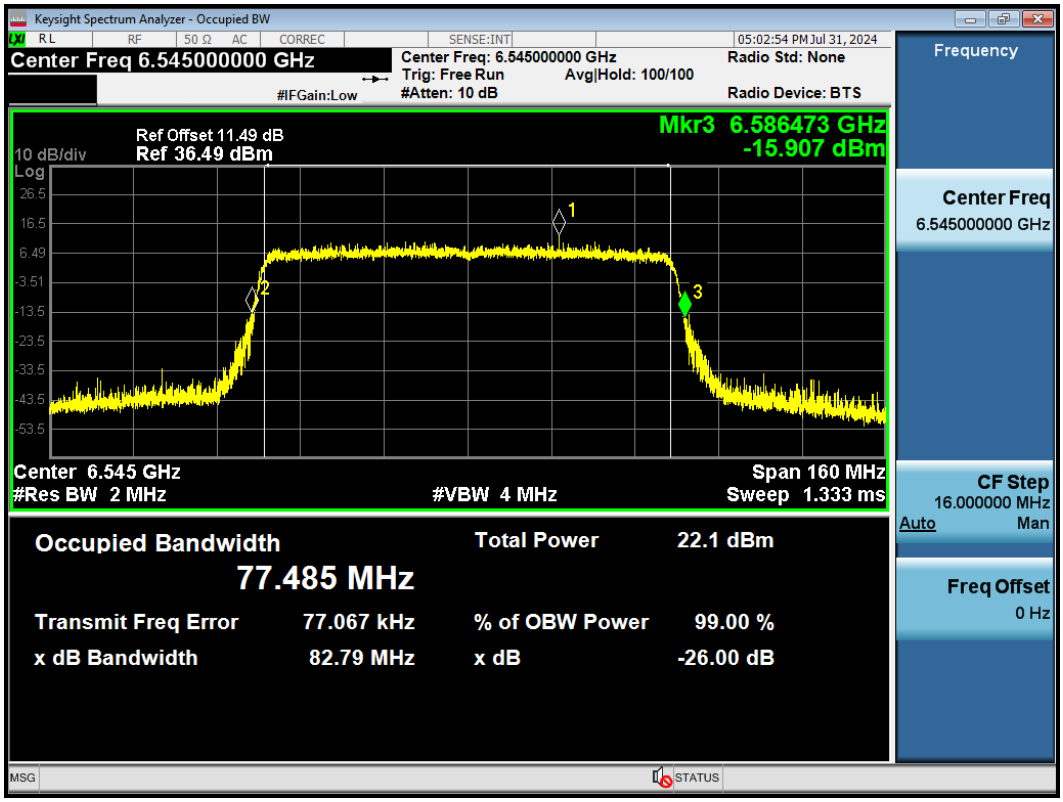
-26dB Bandwidth 802.11ax HE40 6845MHz



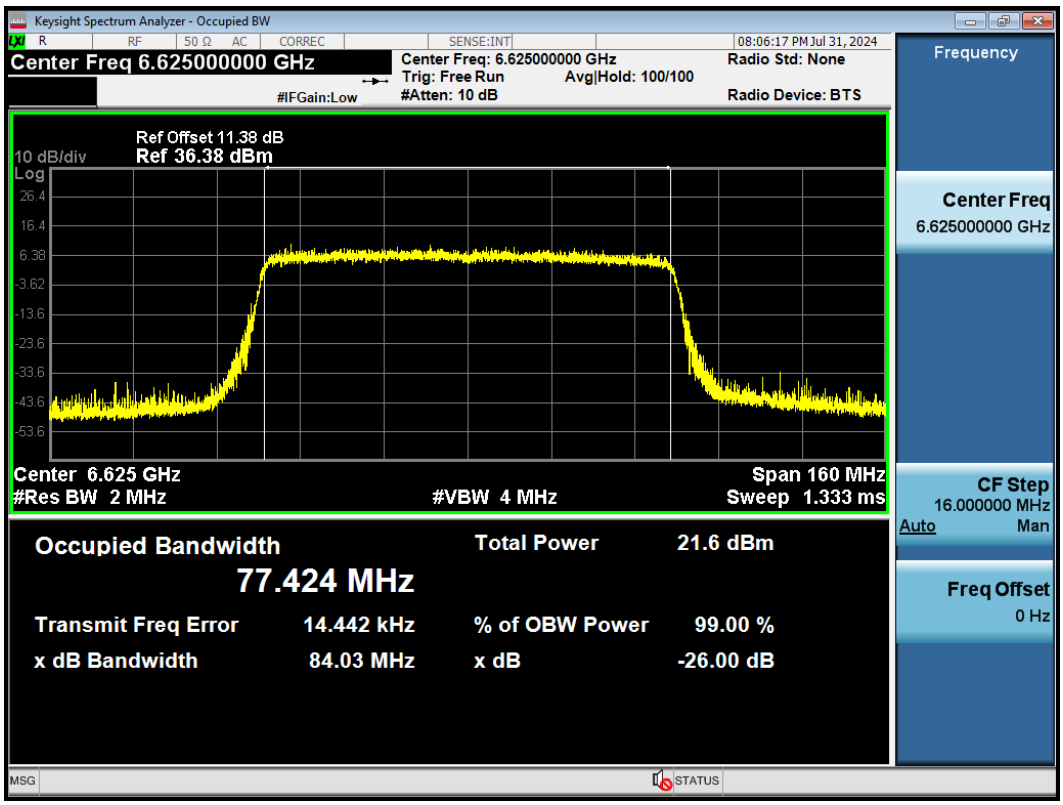
-26dB Bandwidth 802.11ax HE40 6885MHz



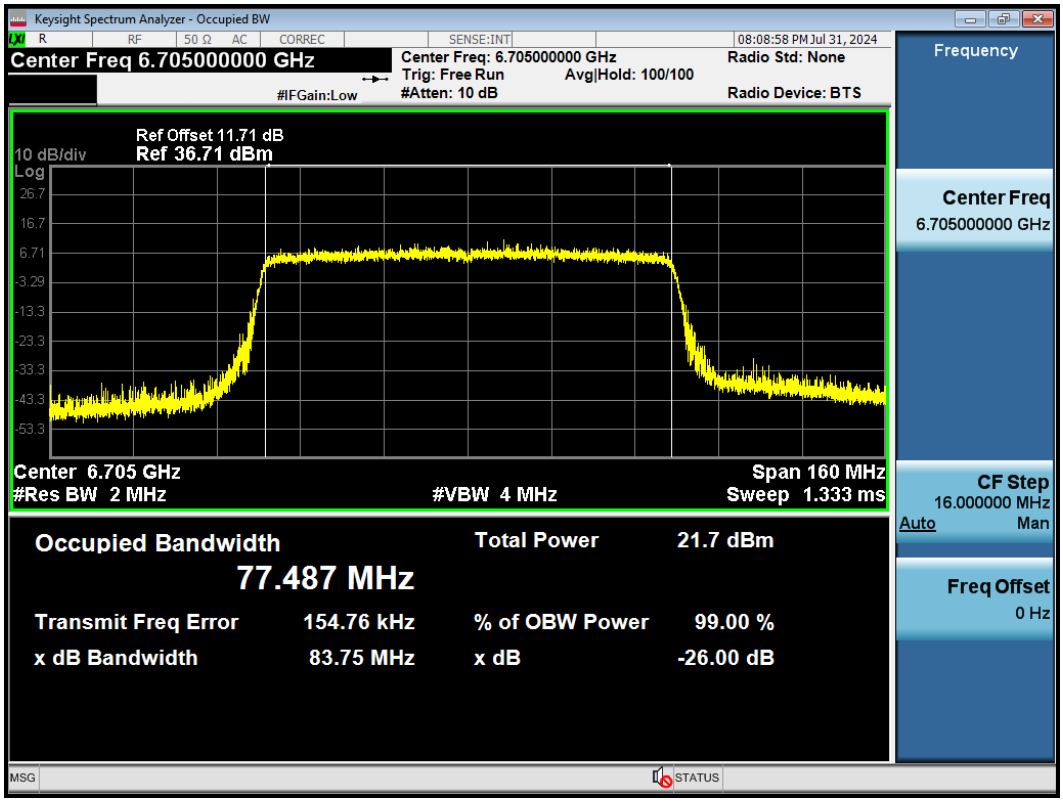
-26dB Bandwidth 802.11ax HE80 6545MHz



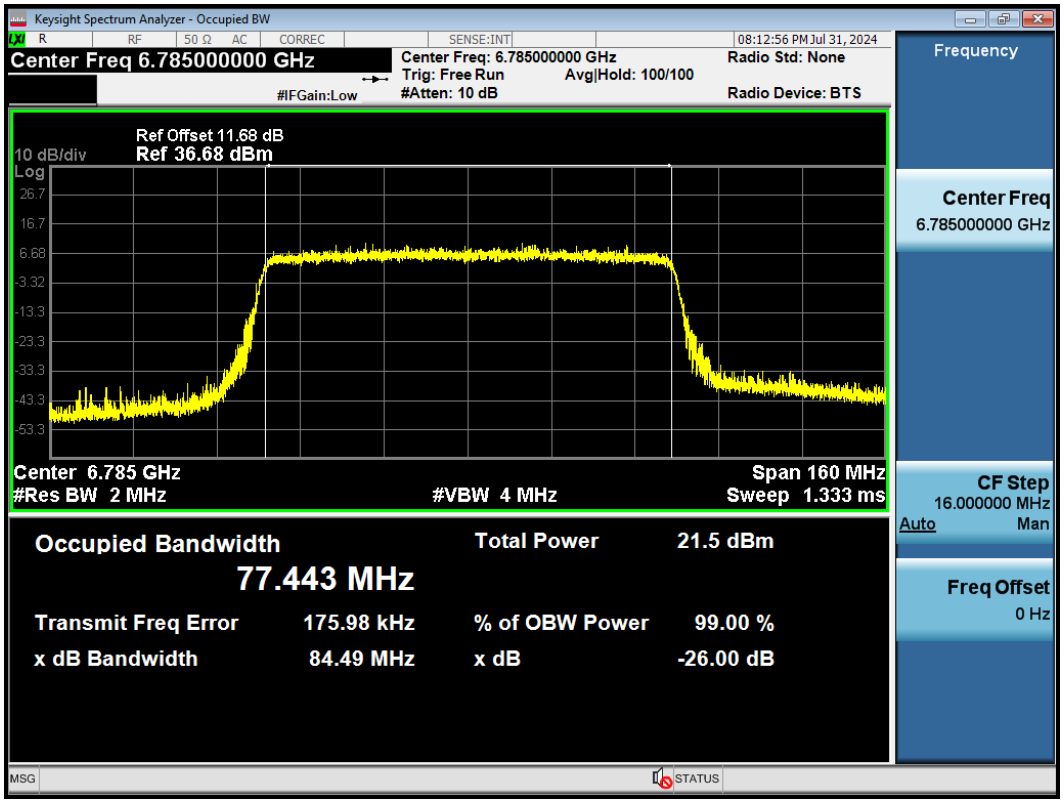
-26dB Bandwidth 802.11ax HE80 6625MHz



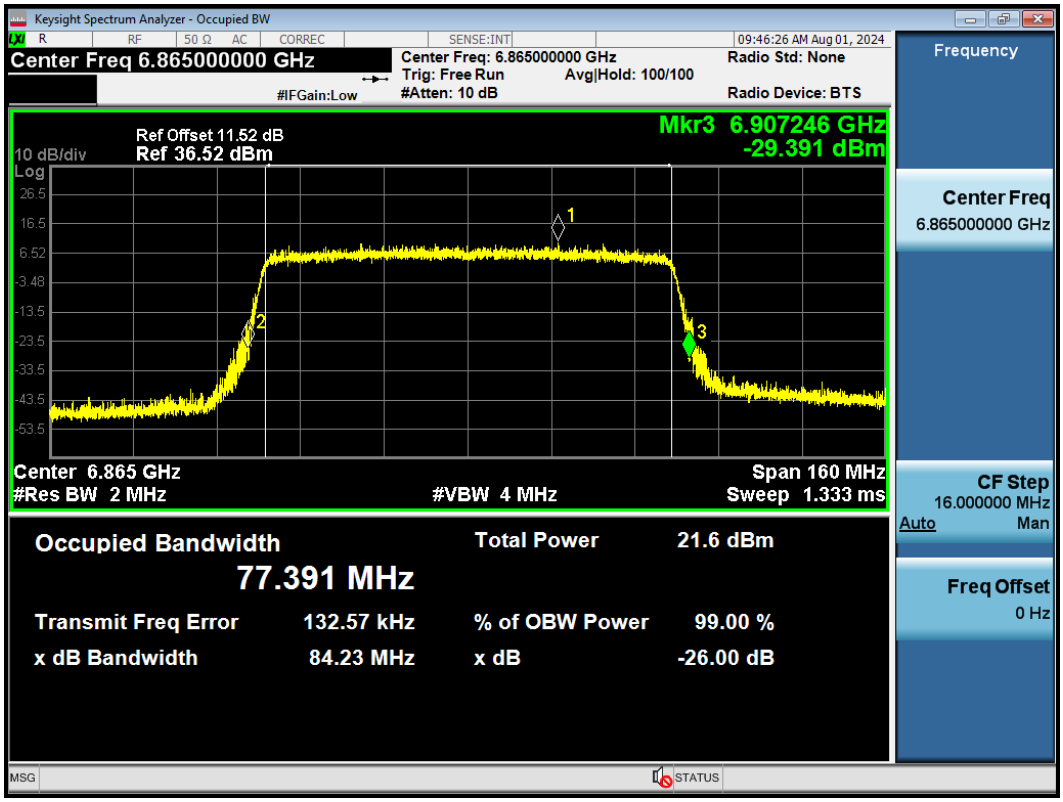
-26dB Bandwidth 802.11ax HE80 6705MHz



-26dB Bandwidth 802.11ax HE80 6785MHz

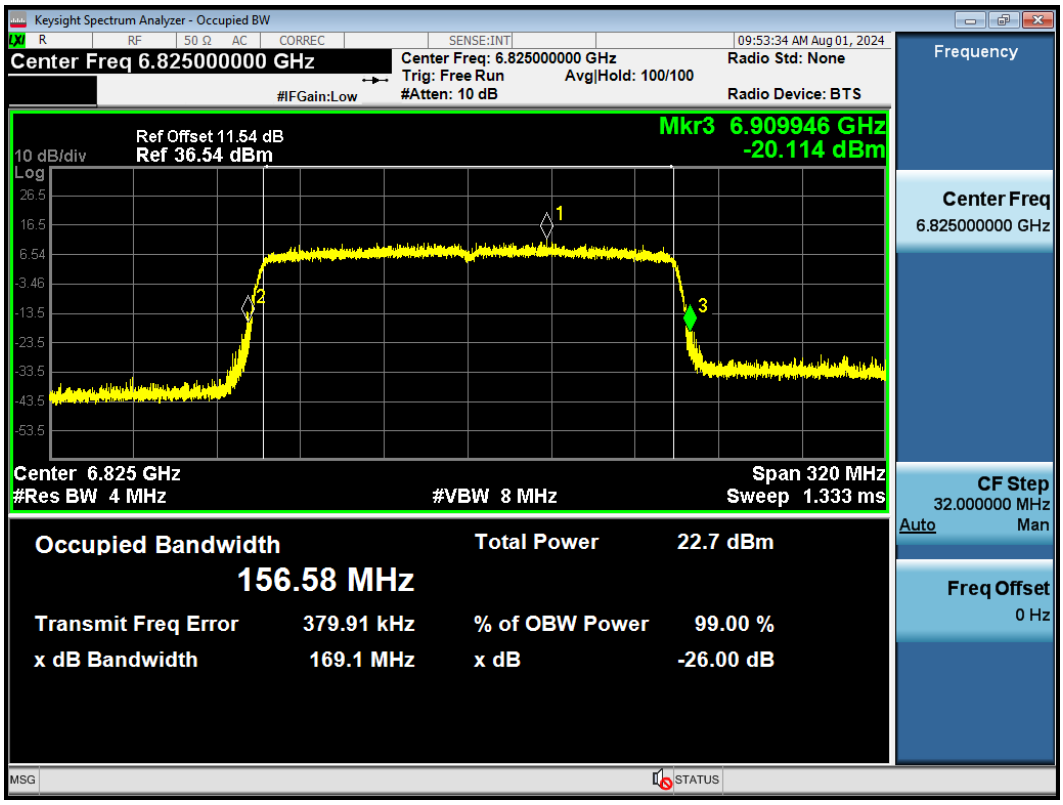


-26dB Bandwidth 802.11ax HE80 6865MHz

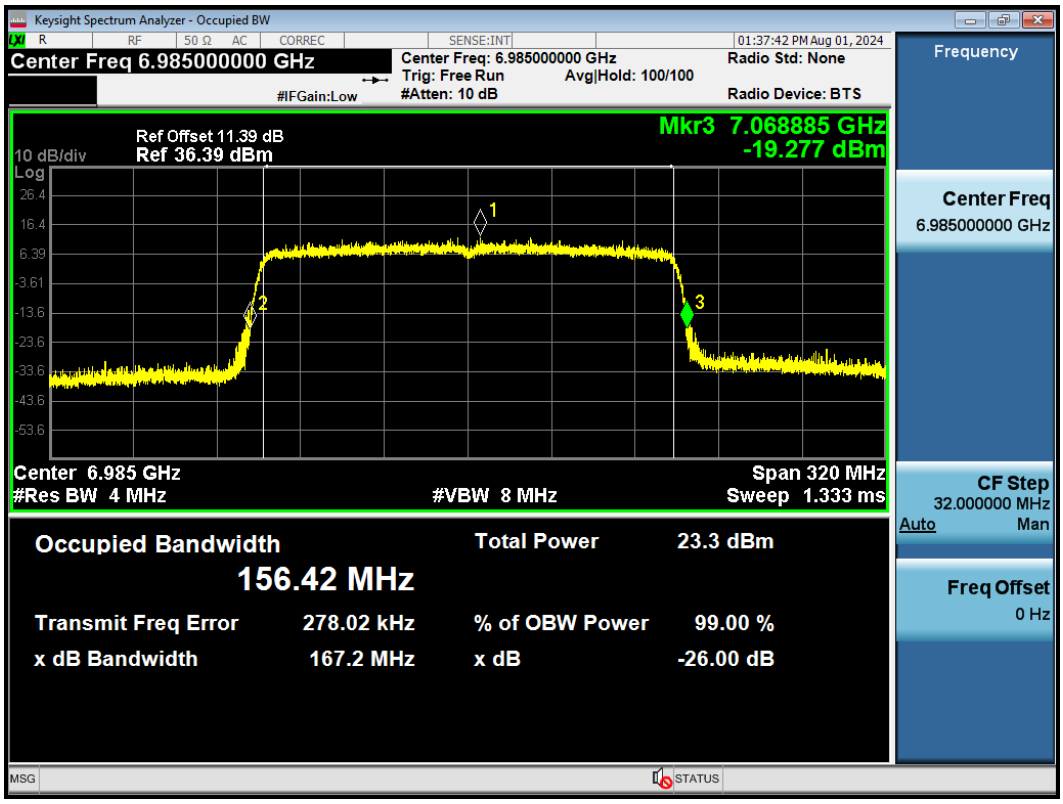


U-NII-8

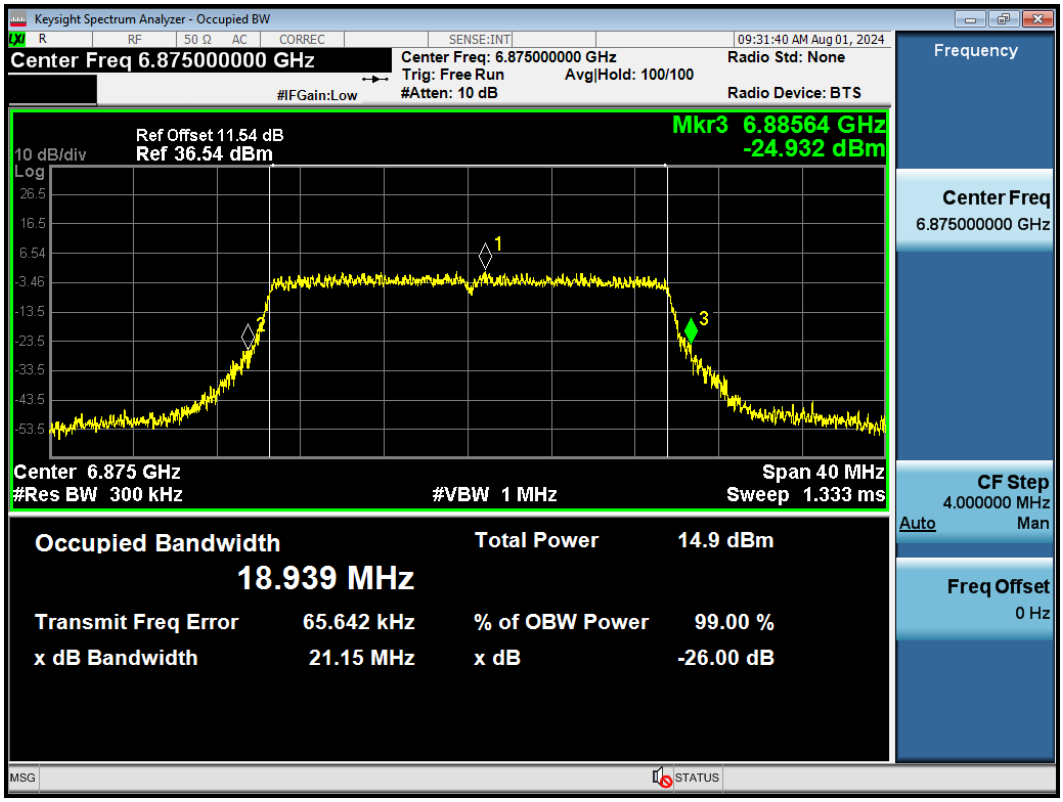
-26dB Bandwidth 802.11ax HE160 6825MHz



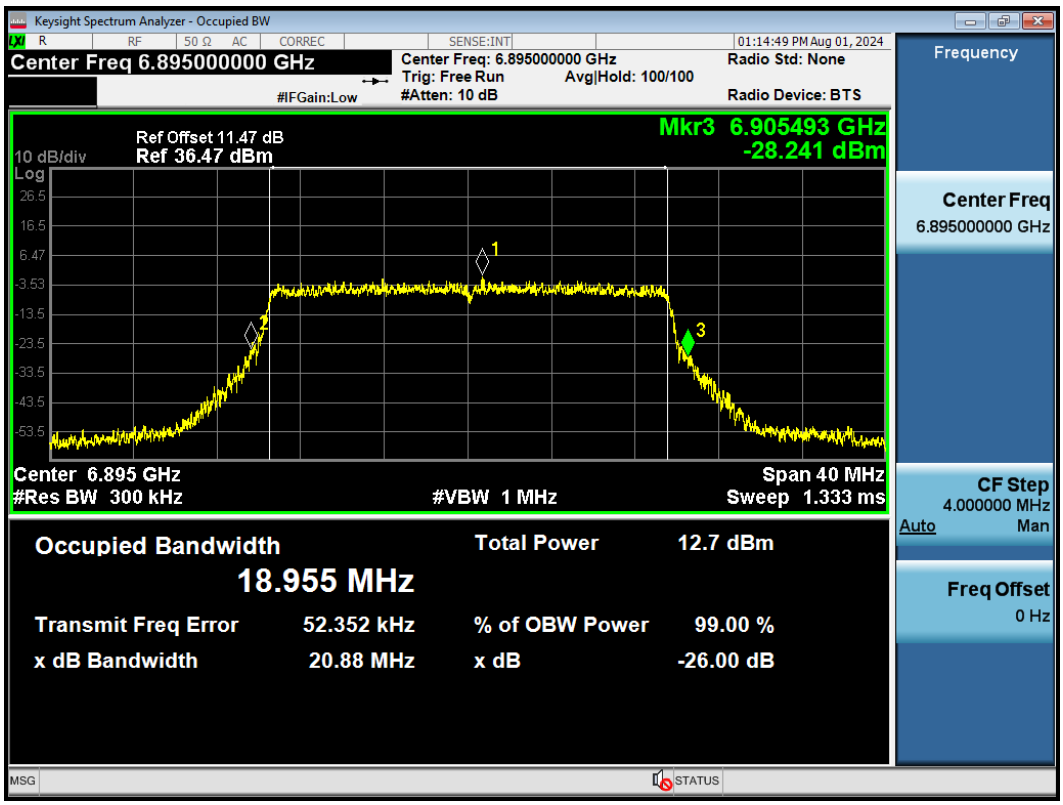
-26dB Bandwidth 802.11ax HE160 6985MHz



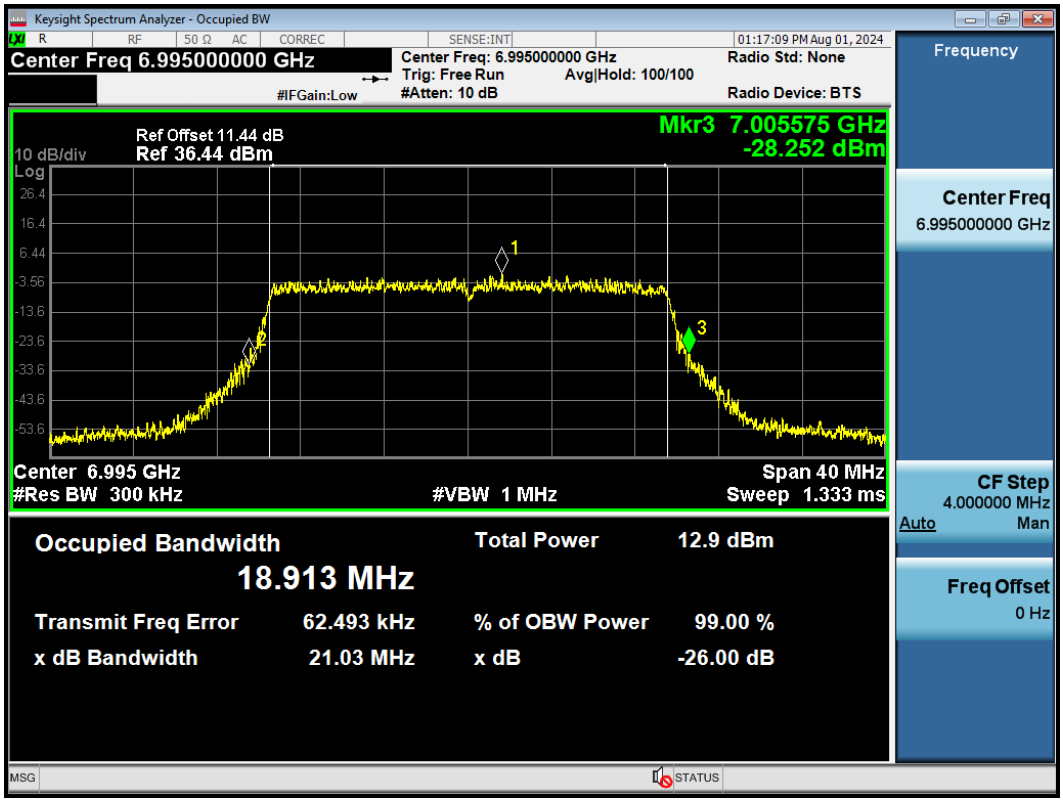
-26dB Bandwidth 802.11ax HE20 6875MHz



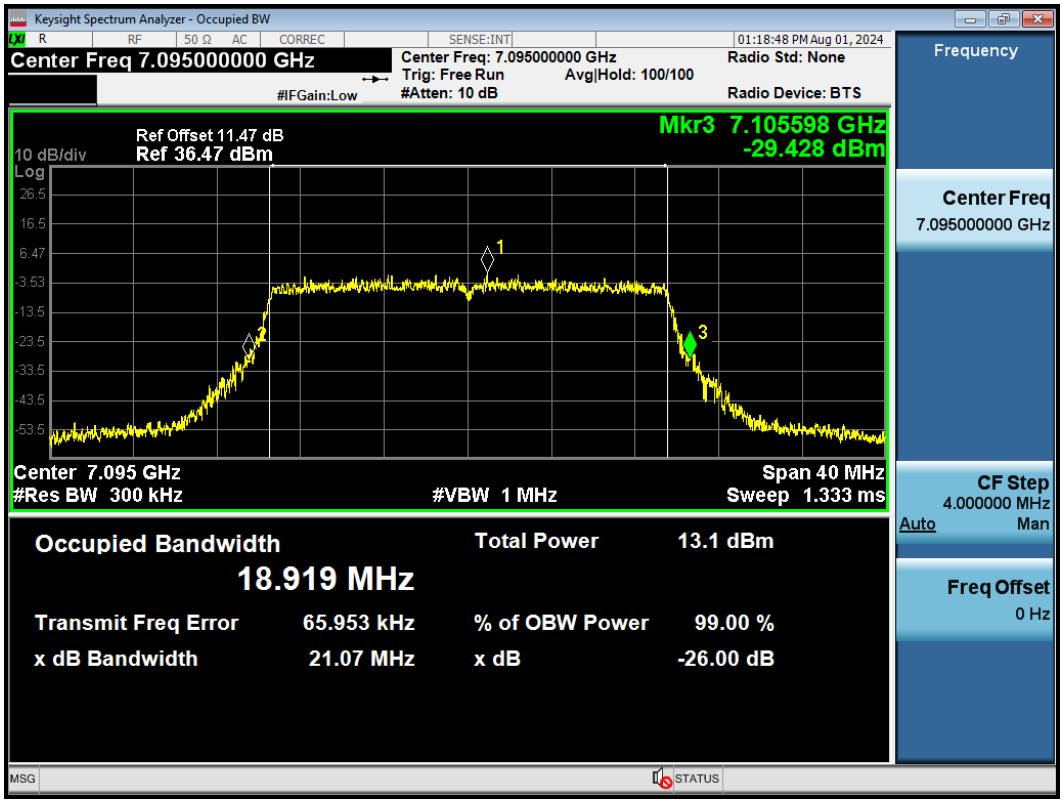
-26dB Bandwidth 802.11ax HE20 6895MHz



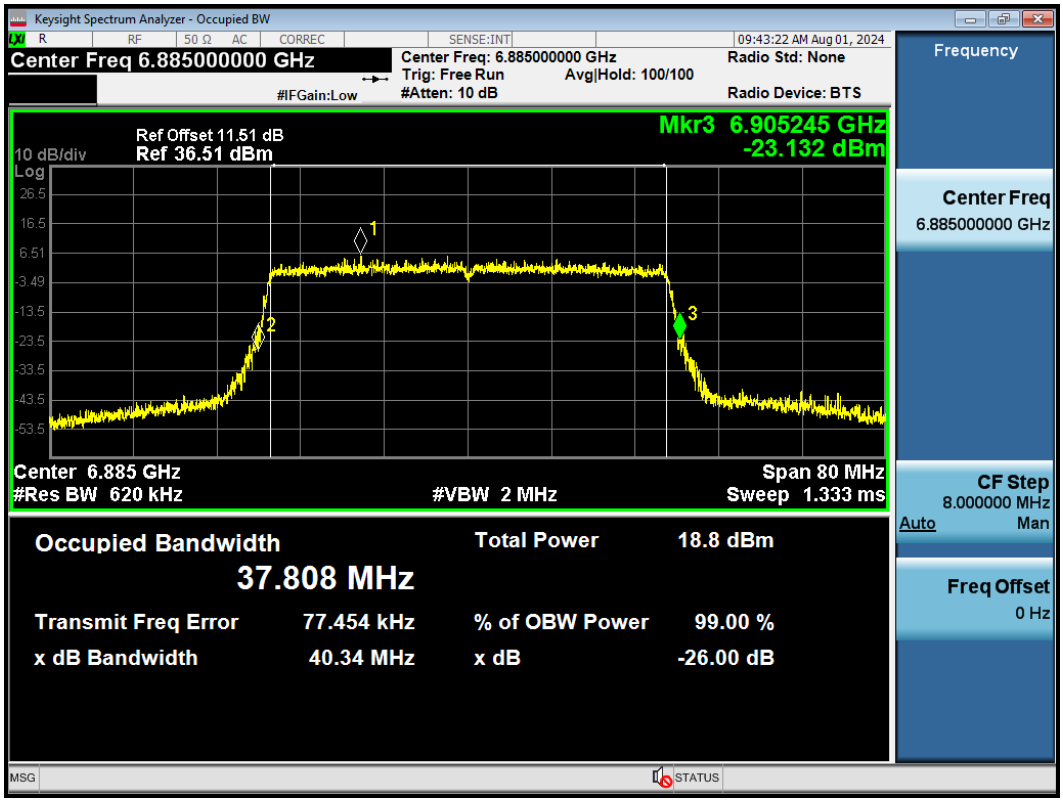
-26dB Bandwidth 802.11ax HE20 6995MHz



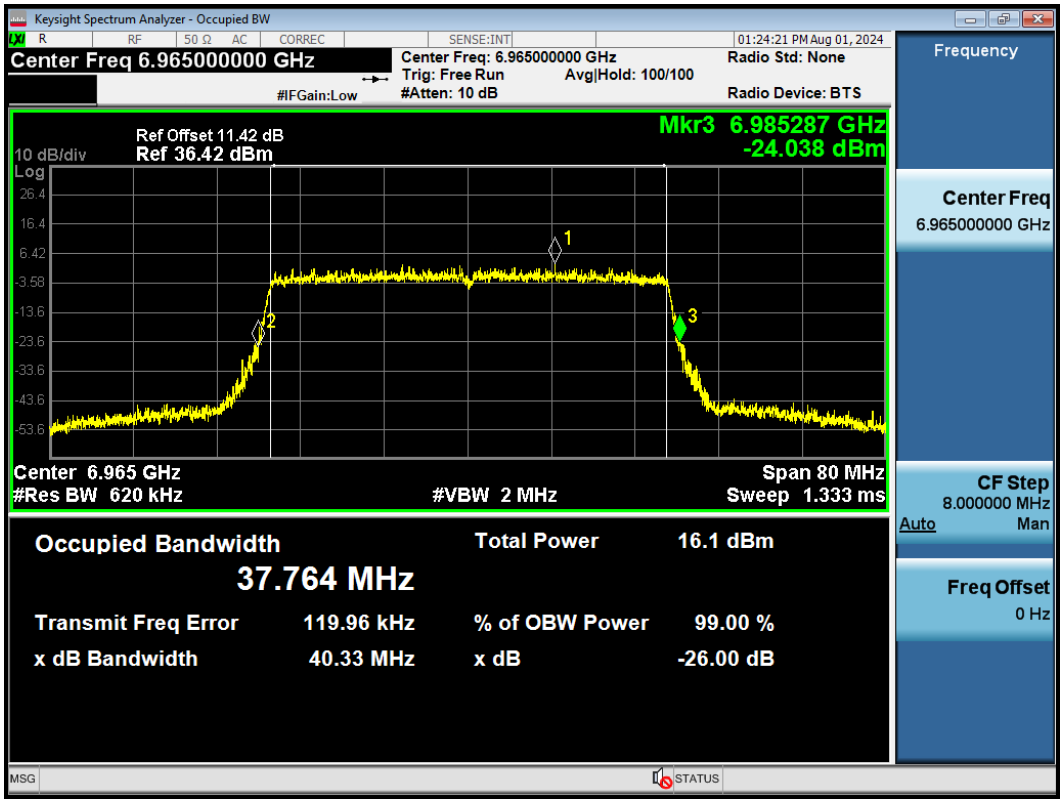
-26dB Bandwidth 802.11ax HE20 7095MHz



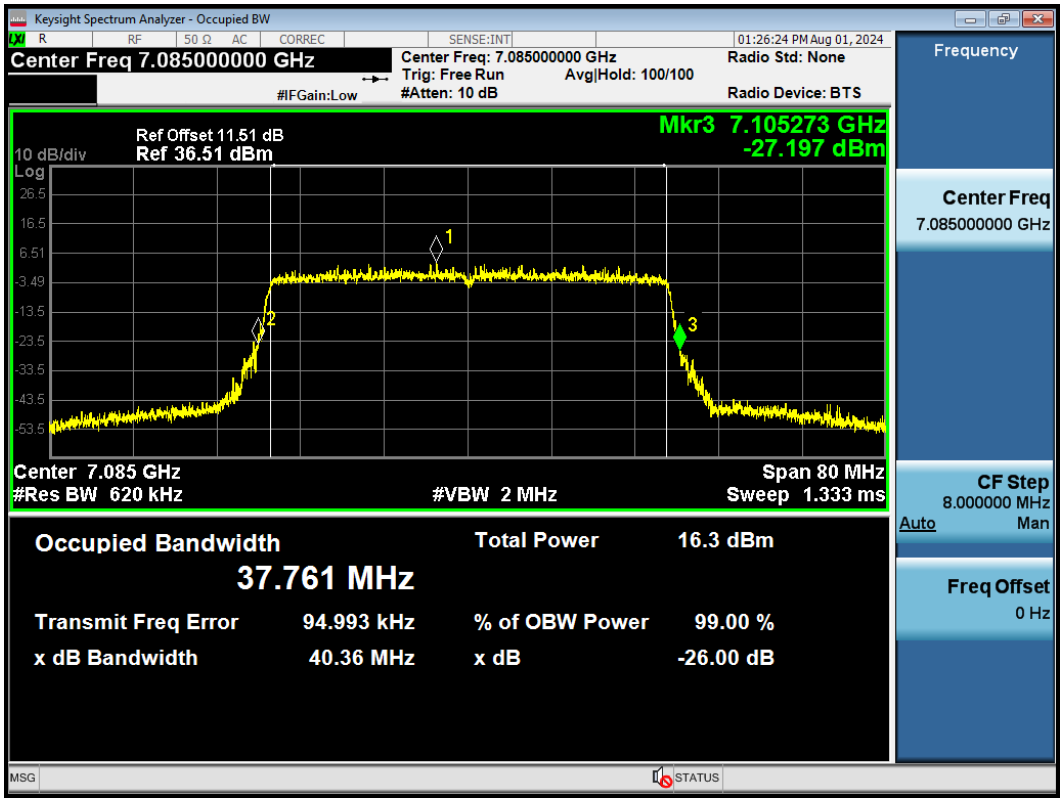
-26dB Bandwidth 802.11ax HE40 6885MHz



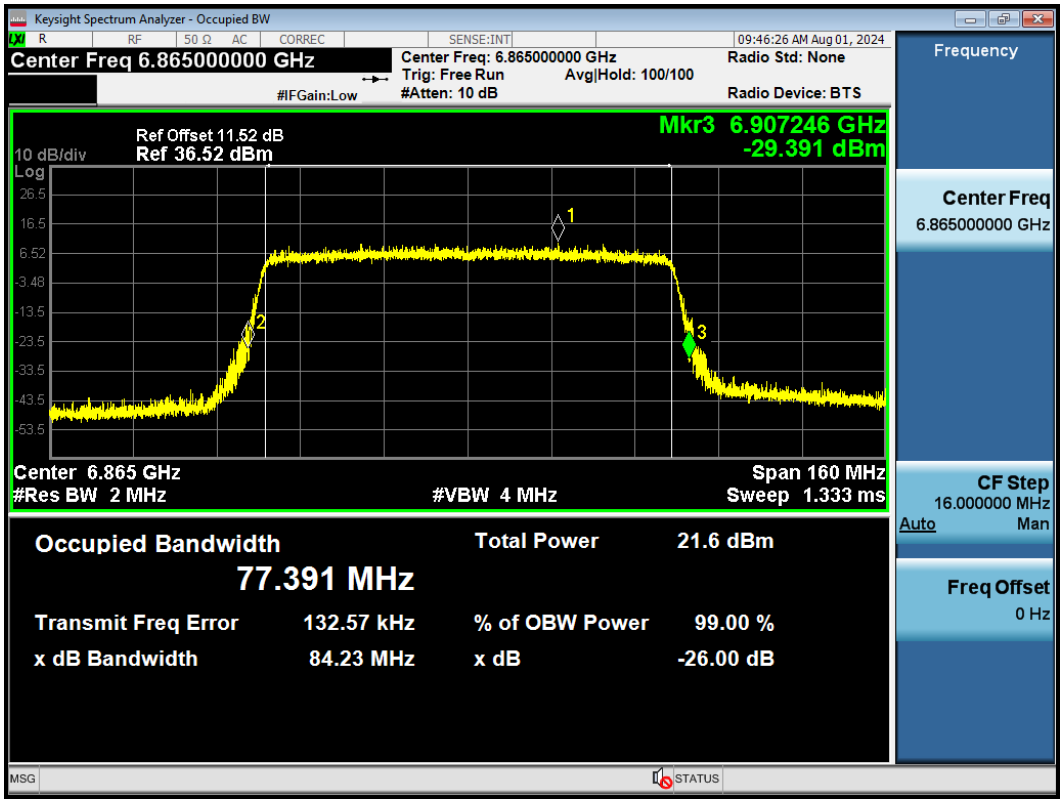
-26dB Bandwidth 802.11ax HE40 6965MHz



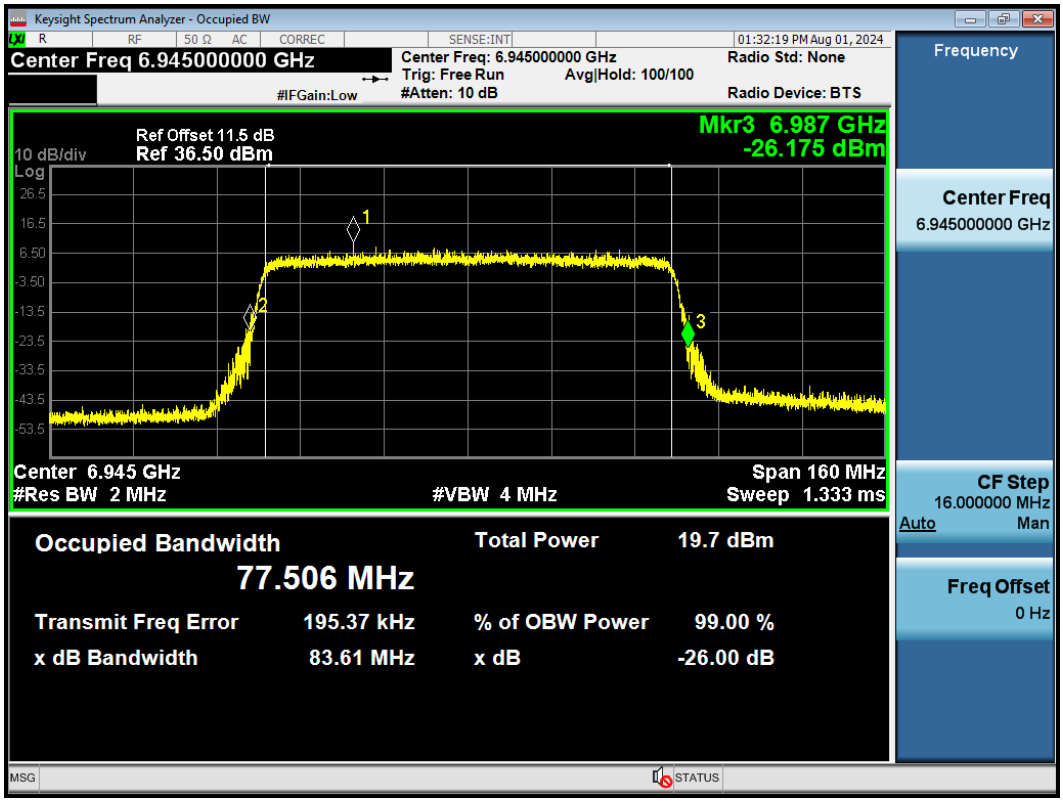
-26dB Bandwidth 802.11ax HE40 7085MHz



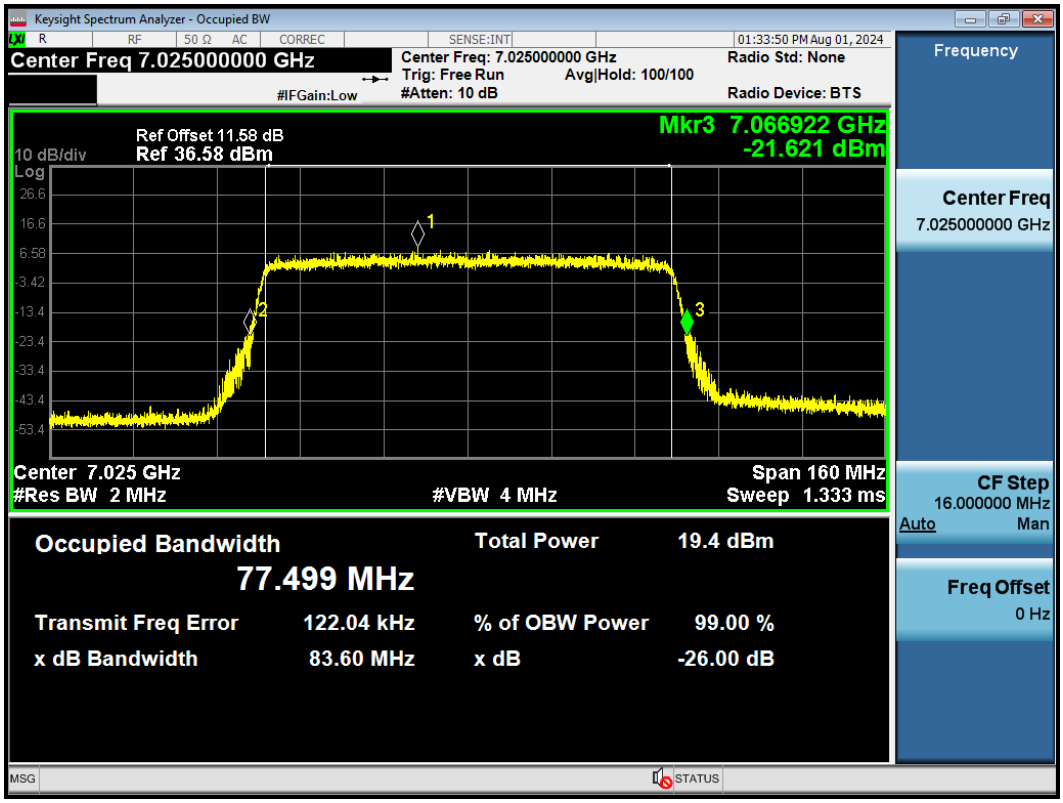
-26dB Bandwidth 802.11ax HE80 6865MHz



-26dB Bandwidth 802.11ax HE80 6945MHz



-26dB Bandwidth 802.11ax HE80 7025MHz



5.2. Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

For Power output Measurement

For channel straddling 6525MHz & 6875MHz:

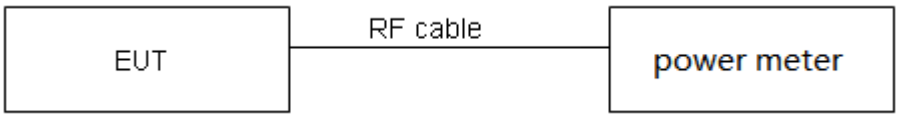
Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

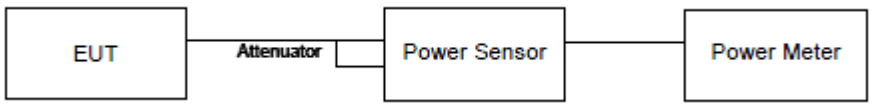
The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test Setup

For Power output Measurement



For other channels:



Limits

☒**For the 5.925 ~ 6.425 GHz band:**

For standard power access point and fixed client device: e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
For indoor ace ss point: e.i.r.p < 30 dBm.

For subordinate device control of an indoor access point: e.i.r.p < 30 dBm.

For client device control of a standard power access point: e.i.r.p < 30 dBm.

For client device control of an indoor access point: e.i.r.p < 24 dBm**.**

☒**For the 6.425 ~ 6.525 GHz band:**

For indoor access point: e.i.r.p < 30 dBm.

For client device control of an indoor access point: e.i.r.p < 24 dBm.

☒**For the 6.525 ~ 6.875 GHz band:**

For standard power access point and fixed client device: e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).

For indoor access point: e.i.r.p < 30 dBm.

For subordinate device control of an indoor access point: e.i.r.p < 30 dBm.

For client device control of a standard power access point: e.i.r.p < 30 dBm.

For client device control of an indoor access point: e.i.r.p < 24 dBm.

☒**For the 6.875 ~ 7.125 GHz band:**

For indoor access point: e.i.r.p < 30 dBm.

For client device control of an indoor access point: e.i.r.p < 24 dBm.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.44 dB.

Test Results

Mode	Duty cycle	Duty cycle correction Factor(dB)
802.11ax HE20	1.00	0.00
802.11ax HE40	1.00	0.00
802.11ax HE80	1.00	0.00
802.11ax HE160	1.00	0.00
Note: when Duty cycle≥0.98, Duty cycle correction Factor not required.		

Power Index						
Band	Network Standards	Channel/ Frequency (MHz)	SISO Antenna 1	SISO Antenna 2	MIMO	Beamforming
U-NII-5	802.11ax HE20	CH 1/5955	9	10.5	6	2.5
		CH 45/6175	9	10	6	3
		CH 93/6415	9	10	6	2.5
	802.11ax HE40	CH 03/5965	12	12	9	6
		CH 43/6165	11.5	12	9	6
		CH 91/6405	11.5	12	9	6
	802.11ax HE80	CH 7/5985	13	13	12	9
		CH 39/6145	13	13	12	9
		CH 87/6385	13	13	12	9
	802.11ax HE160	CH 15/6025	13	13	13	12
		CH 47/6185	13	13	13	12
		CH 79/6345	13	12	13	11.5
U-NII-6	802.11ax HE20	CH 97/6435	10	9.5	6.5	1
		CH 105/6475	10	9	6	3
		CH 113/6515	10.5	9.5	6	3
	802.11ax HE40	CH 99/6445	11	10	9.5	6
		CH 107/6485	11	10	9.5	6
		CH 115/6525	13	12.5	8.5	5.5
	802.11ax HE80	CH 103/6465	13	13	12.5	9
		CH 119/6545	15	15	12	9
	802.11ax HE160	CH 111/6505	15	14	14	12
U-NII-7	802.11ax HE20	CH 117/6535	10.5	9	5.5	3
		CH 149/6695	10	8.5	5.5	2.5
		CH 181/6855	10	8.5	6	3
		CH 185/6875	7.5	6.5	4	1
	802.11ax HE40	CH 115/6525	13	12.5	8.5	5.5
		CH 123/6565	13	12	8.5	5.5
		CH 147/6685	13.5	11.5	8.5	5.5

		CH 179/6845	13.5	12	9	6
		CH 187/6885	10.5	10	7	4
	802.11ax HE80	CH 119/6545	15	15	12	9
		CH 135/6625	13.5	12.5	12.5	9
		CH 151/6705	13.5	12.5	12	8.5
		CH 167/6785	13.5	13.5	11.5	8.5
		CH 183/6865	13.5	13	10	7
	802.11ax HE160	CH 111/6505	16	14	14	12
		CH 143/6665	13.5	13.5	13.5	12
		CH 175/6825	14	14	14	11
U-NII-8	802.11ax HE20	CH 185/6875	7.5	6.5	4	1
		CH 189/6895	7.5	6.5	4	1
		CH 209/6995	7.5	6.5	4	1
		CH 229/7095	8	7.5	4.5	2
	802.11ax HE40	CH 187/6885	10.5	10	7	4
		CH 203/6965	10	10	7	4
		CH 227/7085	10.5	10.5	7.5	4.5
	802.11ax HE80	CH 183/6865	13.5	13	10	7
		CH 199/6945	13.5	13	10	7
		CH 215/7025	13.5	13	10.5	7
	802.11ax HE160	CH 175/6825	14	14	14	11
		CH 207/6985	15	14.5	14	10.5

SISO Antenna 1

U-NII-5

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 1/5955	7.92	7.92	9.72	24	PASS
	CH 45/6175	7.78	7.78	9.58	24	PASS
	CH 93/6415	8.04	8.04	9.84	24	PASS
802.11ax HE40	CH 03/5965	10.56	10.56	12.36	24	PASS
	CH 43/6165	10.60	10.60	12.40	24	PASS
	CH 91/6405	10.71	10.71	12.51	24	PASS
802.11ax HE80	CH 7/5985	11.96	11.96	13.76	24	PASS
	CH 39/6145	11.53	11.53	13.33	24	PASS
	CH 87/6385	12.03	12.03	13.83	24	PASS
802.11ax HE160	CH 15/6025	11.79	11.79	13.59	24	PASS
	CH 47/6185	11.52	11.52	13.32	24	PASS
	CH 79/6345	12.10	12.10	13.90	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

U-NII-6

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 97/6435	8.79	8.79	9.29	24	PASS
	CH 105/6475	8.99	8.99	9.49	24	PASS
	CH 113/6515	9.42	9.42	9.92	24	PASS
802.11ax HE40	CH 99/6445	9.82	9.82	10.32	24	PASS
	CH 107/6485	9.77	9.77	10.27	24	PASS
	CH 115/6525	9.36	9.36	9.86	24	PASS
802.11ax HE80	CH 103/6465	11.89	11.89	12.39	24	PASS
	CH 119/6545	6.93	6.93	7.43	24	PASS
802.11ax HE160	CH 111/6505	12.05	12.05	12.55	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

U-NII-7

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 117/6535	9.34	9.34	9.84	24	PASS
	CH 149/6695	8.96	8.96	9.46	24	PASS
	CH 181/6855	8.72	8.72	9.22	24	PASS
	CH 185/6875	3.45	3.45	3.95	24	PASS
802.11ax HE40	CH 115/6525	8.96	8.96	9.46	24	PASS
	CH 123/6565	12.14	12.14	12.64	24	PASS
	CH 147/6685	12.43	12.43	12.93	24	PASS
	CH 179/6845	12.38	12.38	12.88	24	PASS
	CH 187/6885	2.70	2.70	3.20	24	PASS
802.11ax HE80	CH 119/6545	12.53	12.53	13.03	24	PASS
	CH 135/6625	12.15	12.15	12.65	24	PASS
	CH 151/6705	12.78	12.78	13.28	24	PASS
	CH 167/6785	12.77	12.77	13.27	24	PASS
	CH 183/6865	10.71	10.71	11.21	24	PASS
802.11ax HE160	CH 111/6505	10.53	10.53	11.03	24	PASS
	CH 143/6665	12.31	12.31	12.81	24	PASS
	CH 175/6825	12.86	12.86	13.36	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

U-NII-8

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 185/6875	3.53	3.53	6.83	24	PASS
	CH 189/6895	6.42	6.42	9.72	24	PASS
	CH 209/6995	6.45	6.45	9.75	24	PASS
	CH 229/7095	6.09	6.09	9.39	24	PASS
802.11ax HE40	CH 187/6885	8.18	8.18	11.48	24	PASS
	CH 203/6965	9.16	9.16	12.46	24	PASS
	CH 227/7085	9.20	9.20	12.50	24	PASS
802.11ax HE80	CH 183/6865	7.82	7.82	11.12	24	PASS
	CH 199/6945	12.12	12.12	15.42	24	PASS
	CH 215/7025	12.13	12.13	15.43	24	PASS
802.11ax HE160	CH 175/6825	4.67	4.67	7.97	24	PASS
	CH 207/6985	13.59	13.59	16.89	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

SISO Antenna 2

U-NII-5

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 1/5955	9.60	9.60	9.80	24	PASS
	CH 45/6175	9.38	9.38	9.58	24	PASS
	CH 93/6415	9.19	9.19	9.39	24	PASS
802.11ax HE40	CH 03/5965	10.73	10.73	10.93	24	PASS
	CH 43/6165	10.63	10.63	10.83	24	PASS
	CH 91/6405	10.90	10.90	11.10	24	PASS
802.11ax HE80	CH 7/5985	12.29	12.29	12.49	24	PASS
	CH 39/6145	11.67	11.67	11.87	24	PASS
	CH 87/6385	11.92	11.92	12.12	24	PASS
802.11ax HE160	CH 15/6025	11.85	11.85	12.05	24	PASS
	CH 47/6185	11.59	11.59	11.79	24	PASS
	CH 79/6345	11.02	11.02	11.22	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 97/6435	8.26	8.26	9.56	24	PASS
	CH 105/6475	8.06	8.06	9.36	24	PASS
	CH 113/6515	8.72	8.72	10.02	24	PASS
802.11ax HE40	CH 99/6445	8.86	8.86	10.16	24	PASS
	CH 107/6485	8.89	8.89	10.19	24	PASS
	CH 115/6525	8.42	8.42	9.72	24	PASS
802.11ax HE80	CH 103/6465	11.94	11.94	13.24	24	PASS
	CH 119/6545	7.61	7.61	8.91	24	PASS
802.11ax HE160	CH 111/6505	11.47	11.47	12.77	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 117/6535	8.15	8.15	9.45	24	PASS
	CH 149/6695	8.28	8.28	9.58	24	PASS
	CH 181/6855	8.18	8.18	9.48	24	PASS
	CH 185/6875	3.18	3.18	4.48	24	PASS
802.11ax HE40	CH 115/6525	8.26	8.26	9.56	24	PASS
	CH 123/6565	11.22	11.22	12.52	24	PASS
	CH 147/6685	11.15	11.15	12.45	24	PASS
	CH 179/6845	11.10	11.10	12.40	24	PASS
	CH 187/6885	2.63	2.63	3.93	24	PASS
802.11ax HE80	CH 119/6545	12.81	12.81	14.11	24	PASS
	CH 135/6625	11.67	11.67	12.97	24	PASS
	CH 151/6705	12.38	12.38	13.68	24	PASS
	CH 167/6785	12.78	12.78	14.08	24	PASS
	CH 183/6865	10.47	10.47	11.77	24	PASS
802.11ax HE160	CH 111/6505	8.17	8.17	9.47	24	PASS
	CH 143/6665	12.85	12.85	14.15	24	PASS
	CH 175/6825	12.26	12.26	13.56	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
802.11ax HE20	CH 185/6875	3.33	3.33	6.53	24	PASS
	CH 189/6895	6.28	6.28	9.48	24	PASS
	CH 209/6995	6.31	6.31	9.51	24	PASS
	CH 229/7095	6.50	6.50	9.70	24	PASS
802.11ax HE40	CH 187/6885	8.13	8.13	11.33	24	PASS
	CH 203/6965	9.18	9.18	12.38	24	PASS
	CH 227/7085	9.50	9.50	12.70	24	PASS
802.11ax HE80	CH 183/6865	7.75	7.75	10.95	24	PASS
	CH 199/6945	12.39	12.39	15.59	24	PASS
	CH 215/7025	12.03	12.03	15.23	24	PASS
802.11ax HE160	CH 175/6825	4.31	4.31	7.51	24	PASS
	CH 207/6985	14.02	14.02	17.22	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

MIMO

U-NII-5

Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 1/5955	4.59	4.59	4.85	4.85	7.73	8.81	24.00	PASS
	CH 45/6175	4.54	4.54	4.83	4.83	7.70	8.77	24.00	PASS
	CH 93/6415	5.01	5.01	4.92	4.92	7.98	9.05	24.00	PASS
802.11ax HE40	CH 03/5965	7.57	7.57	7.77	7.77	10.68	11.75	24.00	PASS
	CH 43/6165	7.52	7.52	7.69	7.69	10.62	11.69	24.00	PASS
	CH 91/6405	7.72	7.72	7.97	7.97	10.86	11.93	24.00	PASS
802.11ax HE80	CH 7/5985	10.15	10.15	10.71	10.71	13.45	14.52	24.00	PASS
	CH 39/6145	10.49	10.49	10.76	10.76	13.64	14.71	24.00	PASS
	CH 87/6385	10.83	10.83	10.58	10.58	13.72	14.79	24.00	PASS
802.11ax HE160	CH 15/6025	11.77	11.77	11.75	11.75	14.77	15.84	24.00	PASS
	CH 47/6185	11.52	11.52	11.68	11.68	14.61	15.68	24.00	PASS
	CH 79/6345	12.12	12.12	12.03	12.03	15.09	16.16	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)})$.

EIRP = Total Power + Gain

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10} + 10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{1.8/10} + 10^{0.2/10})/2]$ =1.07 dBi<6dBi.

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Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 97/6435	5.41	5.41	5.42	5.42	8.43	9.34	24.00	PASS
	CH 105/6475	4.98	4.98	5.06	5.06	8.03	8.95	24.00	PASS
	CH 113/6515	5.05	5.05	5.10	5.10	8.09	9.00	24.00	PASS
802.11ax HE40	CH 99/6445	8.18	8.18	8.14	8.14	11.17	12.09	24.00	PASS
	CH 107/6485	8.26	8.26	8.20	8.20	11.24	12.16	24.00	PASS
	CH 115/6525	4.33	4.33	4.66	4.66	7.51	8.43	24.00	PASS
802.11ax HE80	CH 103/6465	11.20	11.20	11.42	11.42	14.32	15.24	24.00	PASS
	CH 119/6545	4.08	4.08	4.33	4.33	7.22	8.14	24.00	PASS
802.11ax HE160	CH 111/6505	11.54	11.54	12.16	12.16	14.87	15.79	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)})$.

EIRP = Total Power + Gain

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10}+10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{0.5/10}+10^{1.3/10})/2]$ =0.92 dBi<6dBi

U-NII-7

Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 117/6535	4.69	4.69	4.75	4.75	7.73	8.65	24.00	PASS
	CH 149/6695	4.84	4.84	5.65	5.65	8.27	9.19	24.00	PASS
	CH 181/6855	5.07	5.07	5.52	5.52	8.31	9.23	24.00	PASS
	CH 185/6875	-0.12	-0.12	0.59	0.59	3.26	4.18	24.00	PASS
802.11ax HE40	CH 115/6525	4.65	4.65	4.86	4.86	7.77	8.68	24.00	PASS
	CH 123/6565	7.72	7.72	8.24	8.24	11.00	11.92	24.00	PASS
	CH 147/6685	7.75	7.75	8.31	8.31	11.05	11.97	24.00	PASS
	CH 179/6845	8.07	8.07	8.60	8.60	11.35	12.27	24.00	PASS
	CH 187/6885	-0.75	-0.75	0.03	0.03	2.67	3.59	24.00	PASS
802.11ax HE80	CH 119/6545	9.70	9.70	9.65	9.65	12.69	13.60	24.00	PASS
	CH 135/6625	10.98	10.98	11.75	11.75	14.39	15.31	24.00	PASS
	CH 151/6705	10.34	10.34	11.27	11.27	13.84	14.76	24.00	PASS
	CH 167/6785	11.28	11.28	11.07	11.07	14.19	15.10	24.00	PASS
	CH 183/6865	7.14	7.14	7.39	7.39	10.28	11.20	24.00	PASS
802.11ax HE160	CH 111/6505	8.47	8.47	8.39	8.39	11.44	12.36	24.00	PASS
	CH 143/6665	12.23	12.23	13.13	13.13	15.71	16.63	24.00	PASS
	CH 175/6825	12.79	12.79	12.47	12.47	15.64	16.56	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)})$.

EIRP = Total Power + Gain

2Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10}+10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{0.5/10}+10^{1.3/10})/2]$ =0.92 dBi<6dBi

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Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 185/6875	0.09	0.09	0.64	0.64	3.38	6.63	24.00	PASS
	CH 189/6895	3.01	3.01	3.65	3.65	6.35	9.60	24.00	PASS
	CH 209/6995	3.06	3.06	3.45	3.45	6.27	9.52	24.00	PASS
	CH 229/7095	2.84	2.84	2.99	2.99	5.93	9.18	24.00	PASS
802.11ax HE40	CH 187/6885	4.82	4.82	5.54	5.54	8.21	11.46	24.00	PASS
	CH 203/6965	5.68	5.68	6.59	6.59	9.17	12.42	24.00	PASS
	CH 227/7085	5.63	5.63	6.20	6.20	8.93	12.18	24.00	PASS
802.11ax HE80	CH 183/6865	4.33	4.33	4.52	4.52	7.44	10.69	24.00	PASS
	CH 199/6945	8.78	8.78	9.20	9.20	12.01	15.26	24.00	PASS
	CH 215/7025	9.16	9.16	9.18	9.18	12.18	15.43	24.00	PASS
802.11ax HE160	CH 175/6825	4.73	4.73	4.92	4.92	7.84	11.09	24.00	PASS
	CH 207/6985	12.07	12.07	12.54	12.54	15.32	18.57	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)})$.

EIRP = Total Power + Gain

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10} + 10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{3.3/10} + 10^{3.2/10})/2]$ =3.25 dBi<6dBi.

Beamforming

U-NII-5

Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 1/5955	1.63	1.63	2.05	2.05	4.86	9.67	24.00	PASS
	CH 45/6175	1.49	1.49	2.37	2.37	4.96	9.77	24.00	PASS
	CH 93/6415	1.69	1.69	1.33	1.33	4.52	9.33	24.00	PASS
802.11ax HE40	CH 03/5965	4.54	4.54	4.98	4.98	7.78	12.59	24.00	PASS
	CH 43/6165	4.52	4.52	4.97	4.97	7.76	12.57	24.00	PASS
	CH 91/6405	5.05	5.05	5.05	5.05	8.06	12.87	24.00	PASS
802.11ax HE80	CH 7/5985	7.56	7.56	7.93	7.93	10.76	15.57	24.00	PASS
	CH 39/6145	7.70	7.70	7.90	7.90	10.81	15.62	24.00	PASS
	CH 87/6385	7.45	7.45	7.99	7.99	10.74	15.55	24.00	PASS
802.11ax HE160	CH 15/6025	10.69	10.69	10.95	10.95	13.83	18.64	24.00	PASS
	CH 47/6185	10.58	10.58	11.14	11.14	13.88	18.69	24.00	PASS
	CH 79/6345	10.75	10.75	10.61	10.61	13.69	18.50	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm/10})}+10^{(\text{Power antenna 2 in dBm/10})})$.

EIRP = Total Power + Gain

2. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX} + 10\log(N_{ANT}/Nss)=1.8+10\log(2/1)=4.81$ dBi< 6dBi.

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Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 97/6435	2.62	2.62	1.29	1.29	5.02	9.33	24.00	PASS
	CH 105/6475	2.57	2.57	1.51	1.51	5.08	9.39	24.00	PASS
	CH 113/6515	2.65	2.65	1.42	1.42	5.09	9.40	24.00	PASS
802.11ax HE40	CH 99/6445	4.94	4.94	5.05	5.05	8.01	12.32	24.00	PASS
	CH 107/6485	5.05	5.05	5.11	5.11	8.09	12.40	24.00	PASS
	CH 115/6525	2.06	2.06	2.25	2.25	5.17	9.48	24.00	PASS
802.11ax HE80	CH 103/6465	7.83	7.83	7.93	7.93	10.89	15.20	24.00	PASS
	CH 119/6545	1.11	1.11	1.75	1.75	4.45	8.76	24.00	PASS
802.11ax HE160	CH 111/6505	9.28	9.28	9.36	9.36	12.33	16.64	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)})$.

EIRP = Total Power + Gain

2. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX} + 10\log(N_{ANT}/Nss)=1.3+10\log(2/1)=4.31$ dBi< 6dBi.

U-NII-7

Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 117/6535	2.50	2.50	2.11	2.11	5.32	9.63	24.00	PASS
	CH 149/6695	1.94	1.94	0.78	0.78	4.41	8.72	24.00	PASS
	CH 181/6855	1.96	1.96	2.64	2.64	5.32	9.63	24.00	PASS
	CH 185/6875	-3.52	-3.52	-2.81	-2.81	-0.14	4.17	24.00	PASS
802.11ax HE40	CH 115/6525	1.76	1.76	1.83	1.83	4.81	9.12	24.00	PASS
	CH 123/6565	4.94	4.94	5.31	5.31	8.14	12.45	24.00	PASS
	CH 147/6685	4.83	4.83	5.72	5.72	8.31	12.62	24.00	PASS
	CH 179/6845	5.01	5.01	5.52	5.52	8.28	12.59	24.00	PASS
	CH 187/6885	-3.70	-3.70	-3.11	-3.11	-0.38	3.93	24.00	PASS
802.11ax HE80	CH 119/6545	6.89	6.89	7.28	7.28	10.10	14.41	24.00	PASS
	CH 135/6625	7.84	7.84	8.39	8.39	11.13	15.44	24.00	PASS
	CH 151/6705	7.70	7.70	8.45	8.45	11.10	15.41	24.00	PASS
	CH 167/6785	8.18	8.18	8.14	8.14	11.17	15.48	24.00	PASS
	CH 183/6865	3.97	3.97	4.89	4.89	7.46	11.77	24.00	PASS
802.11ax HE160	CH 111/6505	6.89	6.89	6.31	6.31	9.62	13.93	24.00	PASS
	CH 143/6665	10.40	10.40	11.41	11.41	13.94	18.25	24.00	PASS
	CH 175/6825	9.75	9.75	9.51	9.51	12.64	16.95	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power $=10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)}$.

EIRP = Total Power + Gain

2. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX} + 10\log(N_{ANT}/Nss)=1.3+10\log(2/1)=4.31$ dBi< 6dBi.

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Test Mode	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)				
802.11ax HE20	CH 185/6875	-3.08	-3.08	-2.51	-2.51	0.22	6.53	24.00	PASS
	CH 189/6895	-0.29	-0.29	0.28	0.28	3.01	9.32	24.00	PASS
	CH 209/6995	-0.30	-0.30	0.04	0.04	2.88	9.19	24.00	PASS
	CH 229/7095	-0.03	-0.03	0.27	0.27	3.13	9.44	24.00	PASS
802.11ax HE40	CH 187/6885	1.90	1.90	2.53	2.53	5.24	11.55	24.00	PASS
	CH 203/6965	2.74	2.74	3.36	3.36	6.07	12.38	24.00	PASS
	CH 227/7085	2.81	2.81	3.02	3.02	5.93	12.24	24.00	PASS
802.11ax HE80	CH 183/6865	1.28	1.28	2.05	2.05	4.69	11.00	24.00	PASS
	CH 199/6945	5.51	5.51	6.79	6.79	9.21	15.52	24.00	PASS
	CH 215/7025	5.64	5.64	6.10	6.10	8.89	15.20	24.00	PASS
802.11ax HE160	CH 175/6825	1.78	1.78	1.85	1.85	4.83	11.14	24.00	PASS
	CH 207/6985	9.64	9.64	9.94	9.94	12.80	19.11	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

Average Power with duty factor = Average Power Measured +Duty cycle correction factor

The Total Power =$10\log(10^{(\text{Power antenna 1 in dBm}/10)}+10^{(\text{Power antenna 2 in dBm}/10)})$.

EIRP = Total Power + Gain

2. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX} + 10\log(N_{ANT}/Nss)=3.3+10\log(2/1)=6.31$ dBi>6dBi.

5.3. Peak Power Spectral Density (E.I.R.P.)

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

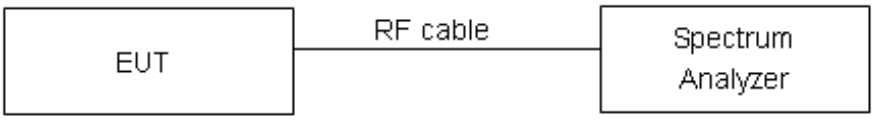
The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to “free run”.
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

☒**For the 5.925 ~ 6.425 GHz band:**
For standard power access point and fixed client device: e.i.r.p PSD < 23 dBm/MHz.
For indoor access point: e.i.r.p PSD < 5 dBm/MHz.
For subordinate device control of an indoor access point: e.i.r.p PSD < 5 dBm/MHz.
For client device control of a standard power access point: e.i.r.p PSD < 17 dBm/MHz.
For client device control of an indoor access point: e.i.r.p PSD < -1 dBm/MHz.
☒**For the 6.425 ~ 6.525 GHz band:**
For indoor access point: e.i.r.p PSD < 5 dBm/MHz.
For client device control of an indoor access point: e.i.r.p PSD < -1 dBm/MHz.
☒**For the 6.525 ~ 6.875 GHz band:**
For standard power access point and fixed client device: e.i.r.p PSD < 23 dBm/MHz.
For indoor access point: e.i.r.p PSD < 5 dBm/MHz.
For subordinate device control of an indoor access point: e.i.r.p PSD < 5 dBm/MHz.
For client device control of a standard power access point: e.i.r.p PSD < 17 dBm/MHz.
For client device control of an indoor access point: e.i.r.p PSD < -1 dBm/MHz.
☒**For the 6.875 ~ 7.125 GHz band:**
For indoor access point: e.i.r.p PSD < 5 dBm/MHz.

For client device control of an indoor access point: e.i.r.p PSD < -1 dBm/MHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.75dB.

Test Results:

SISO Antenna 1

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 1/5955	-2.86	-2.86	-1.06	-1.00	PASS
	CH 45/6175	-3.25	-3.25	-1.45	-1.00	PASS
	CH 93/6415	-2.85	-2.85	-1.05	-1.00	PASS
802.11ax HE40	CH 03/5965	-3.35	-3.35	-1.55	-1.00	PASS
	CH 43/6165	-3.14	-3.14	-1.34	-1.00	PASS
	CH 91/6405	-3.26	-3.26	-1.46	-1.00	PASS
802.11ax HE80	CH 7/5985	-4.95	-4.95	-3.15	-1.00	PASS
	CH 39/6145	-5.23	-5.23	-3.43	-1.00	PASS
	CH 87/6385	-4.87	-4.87	-3.07	-1.00	PASS
802.11ax HE160	CH 15/6025	-7.79	-7.79	-5.99	-1.00	PASS
	CH 47/6185	-8.22	-8.22	-6.42	-1.00	PASS
	CH 79/6345	-7.75	-7.75	-5.95	-1.00	PASS
Note: Power Spectral Density = Read Value + Duty cycle correction factor e.i.r.p PSD = Power Spectral Density + Gain						

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 97/6435	-2.07	-2.07	-1.57	-1.00	PASS
	CH 105/6475	-1.64	-1.64	-1.14	-1.00	PASS
	CH 113/6515	-1.67	-1.67	-1.17	-1.00	PASS
802.11ax HE40	CH 99/6445	-3.63	-3.63	-3.13	-1.00	PASS
	CH 107/6485	-4.17	-4.17	-3.67	-1.00	PASS
	CH 115/6525	-1.80	-1.80	-1.30	-1.00	PASS
802.11ax HE80	CH 103/6465	-4.82	-4.82	-4.32	-1.00	PASS
	CH 119/6545	-4.35	-4.35	-3.85	-1.00	PASS
802.11ax HE160	CH 111/6505	-6.08	-6.08	-5.58	-1.00	PASS
Note: Power Spectral Density = Read Value + Duty cycle correction factor e.i.r.p PSD = Power Spectral Density + Gain						

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 117/6535	-1.58	-1.58	-1.08	-1.00	PASS
	CH 149/6695	-1.80	-1.80	-1.30	-1.00	PASS
	CH 181/6855	-2.31	-2.31	-1.81	-1.00	PASS
	CH 185/6875	-4.41	-4.41	-3.91	-1.00	PASS
802.11ax HE40	CH 115/6525	-1.98	-1.98	-1.48	-1.00	PASS
	CH 123/6565	-1.90	-1.90	-1.40	-1.00	PASS
	CH 147/6685	-1.52	-1.52	-1.02	-1.00	PASS
	CH 179/6845	-1.56	-1.56	-1.06	-1.00	PASS
	CH 187/6885	-5.01	-5.01	-4.51	-1.00	PASS
802.11ax HE80	CH 119/6545	-3.38	-3.38	-2.88	-1.00	PASS
	CH 135/6625	-4.81	-4.81	-4.31	-1.00	PASS
	CH 151/6705	-4.05	-4.05	-3.55	-1.00	PASS
	CH 167/6785	-4.02	-4.02	-3.52	-1.00	PASS
	CH 183/6865	-4.11	-4.11	-3.61	-1.00	PASS
802.11ax HE160	CH 111/6505	-5.26	-5.26	-4.76	-1.00	PASS
	CH 143/6665	-7.81	-7.81	-7.31	-1.00	PASS
	CH 175/6825	-6.73	-6.73	-6.23	-1.00	PASS

Note: Power Spectral Density = Read Value + Duty cycle correction factor
e.i.r.p PSD = Power Spectral Density + Gain

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 185/6875	-4.40	-4.40	-1.10	-1.00	PASS
	CH 189/6895	-4.39	-4.39	-1.09	-1.00	PASS
	CH 209/6995	-4.51	-4.51	-1.21	-1.00	PASS
	CH 229/7095	-4.60	-4.60	-1.30	-1.00	PASS
802.11ax HE40	CH 187/6885	-4.67	-4.67	-1.37	-1.00	PASS
	CH 203/6965	-4.63	-4.63	-1.33	-1.00	PASS
	CH 227/7085	-4.67	-4.67	-1.37	-1.00	PASS
802.11ax HE80	CH 183/6865	-4.63	-4.63	-1.33	-1.00	PASS
	CH 199/6945	-4.61	-4.61	-1.31	-1.00	PASS
	CH 215/7025	-4.53	-4.53	-1.23	-1.00	PASS
802.11ax HE160	CH 175/6825	-8.17	-8.17	-4.87	-1.00	PASS
	CH 207/6985	-6.53	-6.53	-3.23	-1.00	PASS

Note: Power Spectral Density = Read Value + Duty cycle correction factor
e.i.r.p PSD = Power Spectral Density + Gain

SISO Antenna 2

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 1/5955	-1.37	-1.37	-1.17	-1.00	PASS
	CH 45/6175	-1.56	-1.56	-1.36	-1.00	PASS
	CH 93/6415	-1.38	-1.38	-1.18	-1.00	PASS
802.11ax HE40	CH 03/5965	-3.31	-3.31	-3.11	-1.00	PASS
	CH 43/6165	-3.35	-3.35	-3.15	-1.00	PASS
	CH 91/6405	-3.01	-3.01	-2.81	-1.00	PASS
802.11ax HE80	CH 7/5985	-4.72	-4.72	-4.52	-1.00	PASS
	CH 39/6145	-5.22	-5.22	-5.02	-1.00	PASS
	CH 87/6385	-4.84	-4.84	-4.64	-1.00	PASS
802.11ax HE160	CH 15/6025	-7.80	-7.80	-7.60	-1.00	PASS
	CH 47/6185	-8.48	-8.48	-8.28	-1.00	PASS
	CH 79/6345	-8.62	-8.62	-8.42	-1.00	PASS
Note: Power Spectral Density = Read Value + Duty cycle correction factor e.i.r.p PSD = Power Spectral Density + Gain						

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 97/6435	-2.62	-2.62	-1.32	-1.00	PASS
	CH 105/6475	-2.64	-2.64	-1.34	-1.00	PASS
	CH 113/6515	-2.36	-2.36	-1.06	-1.00	PASS
802.11ax HE40	CH 99/6445	-4.87	-4.87	-3.57	-1.00	PASS
	CH 107/6485	-4.87	-4.87	-3.57	-1.00	PASS
	CH 115/6525	-2.46	-2.46	-1.16	-1.00	PASS
802.11ax HE80	CH 103/6465	-5.02	-5.02	-3.72	-1.00	PASS
	CH 119/6545	-3.39	-3.39	-2.09	-1.00	PASS
802.11ax HE160	CH 111/6505	-6.70	-6.70	-5.40	-1.00	PASS
Note: Power Spectral Density = Read Value + Duty cycle correction factor e.i.r.p PSD = Power Spectral Density + Gain						

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 117/6535	-2.57	-2.57	-1.27	-1.00	PASS
	CH 149/6695	-2.67	-2.67	-1.37	-1.00	PASS
	CH 181/6855	-2.48	-2.48	-1.18	-1.00	PASS
	CH 185/6875	-4.29	-4.29	-2.99	-1.00	PASS
802.11ax HE40	CH 115/6525	-2.57	-2.57	-1.27	-1.00	PASS
	CH 123/6565	-2.74	-2.74	-1.44	-1.00	PASS
	CH 147/6685	-2.72	-2.72	-1.42	-1.00	PASS
	CH 179/6845	-2.71	-2.71	-1.41	-1.00	PASS
	CH 187/6885	-5.03	-5.03	-3.73	-1.00	PASS
802.11ax HE80	CH 119/6545	-2.89	-2.89	-1.59	-1.00	PASS
	CH 135/6625	-5.25	-5.25	-3.95	-1.00	PASS
	CH 151/6705	-4.43	-4.43	-3.13	-1.00	PASS
	CH 167/6785	-4.13	-4.13	-2.83	-1.00	PASS
	CH 183/6865	-4.39	-4.39	-3.09	-1.00	PASS
802.11ax HE160	CH 111/6505	-7.58	-7.58	-6.28	-1.00	PASS
	CH 143/6665	-7.13	-7.13	-5.83	-1.00	PASS
	CH 175/6825	-6.92	-6.92	-5.62	-1.00	PASS

Note: Power Spectral Density = Read Value + Duty cycle correction factor
e.i.r.p PSD = Power Spectral Density + Gain

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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	e.i.r.p PSD (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20	CH 185/6875	-4.62	-4.62	-1.42	-1.00	PASS
	CH 189/6895	-4.46	-4.46	-1.26	-1.00	PASS
	CH 209/6995	-4.37	-4.37	-1.17	-1.00	PASS
	CH 229/7095	-4.43	-4.43	-1.23	-1.00	PASS
802.11ax HE40	CH 187/6885	-4.55	-4.55	-1.35	-1.00	PASS
	CH 203/6965	-4.50	-4.50	-1.30	-1.00	PASS
	CH 227/7085	-4.35	-4.35	-1.15	-1.00	PASS
802.11ax HE80	CH 183/6865	-4.67	-4.67	-1.47	-1.00	PASS
	CH 199/6945	-4.47	-4.47	-1.27	-1.00	PASS
	CH 215/7025	-4.53	-4.53	-1.33	-1.00	PASS
802.11ax HE160	CH 175/6825	-8.65	-8.65	-5.45	-1.00	PASS
	CH 207/6985	-6.27	-6.27	-3.07	-1.00	PASS

Note: Power Spectral Density = Read Value + Duty cycle correction factor
e.i.r.p PSD = Power Spectral Density + Gain

MIMO

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Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 1/5955	-6.31	-6.31	-5.63	-5.63	-2.95	-1.87	-1.00	PASS
	CH 45/6175	-6.05	-6.05	-6.03	-6.03	-3.03	-1.96	-1.00	PASS
	CH 93/6415	-6.08	-6.08	-6.02	-6.02	-3.04	-1.97	-1.00	PASS
802.11ax HE40	CH 03/5965	-6.42	-6.42	-5.97	-5.97	-3.18	-2.11	-1.00	PASS
	CH 43/6165	-6.24	-6.24	-6.00	-6.00	-3.11	-2.03	-1.00	PASS
	CH 91/6405	-6.22	-6.22	-5.89	-5.89	-3.04	-1.97	-1.00	PASS
802.11ax HE80	CH 7/5985	-6.84	-6.84	-6.47	-6.47	-3.64	-2.57	-1.00	PASS
	CH 39/6145	-6.11	-6.11	-6.04	-6.04	-3.06	-1.99	-1.00	PASS
	CH 87/6385	-5.96	-5.96	-6.25	-6.25	-3.09	-2.02	-1.00	PASS
802.11ax HE160	CH 15/6025	-7.74	-7.74	-7.91	-7.91	-4.81	-3.74	-1.00	PASS
	CH 47/6185	-8.40	-8.40	-8.19	-8.19	-5.28	-4.21	-1.00	PASS
	CH 79/6345	-7.45	-7.45	-7.39	-7.39	-4.41	-3.34	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD =$10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10} + 10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{1.8/10} + 10^{0.2/10})/2]$ =1.07 dBi<6dBi.

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Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 97/6435	-5.55	-5.55	-5.48	-5.48	-2.50	-1.59	-1.00	PASS
	CH 105/6475	-5.76	-5.76	-5.91	-5.91	-2.82	-1.91	-1.00	PASS
	CH 113/6515	-5.57	-5.57	-5.65	-5.65	-2.60	-1.68	-1.00	PASS
802.11ax HE40	CH 99/6445	-5.72	-5.72	-5.74	-5.74	-2.72	-1.80	-1.00	PASS
	CH 107/6485	-5.23	-5.23	-5.64	-5.64	-2.42	-1.50	-1.00	PASS
	CH 115/6525	-6.44	-6.44	-6.25	-6.25	-3.33	-2.42	-1.00	PASS
802.11ax HE80	CH 103/6465	-5.57	-5.57	-5.62	-5.62	-2.58	-1.67	-1.00	PASS
	CH 119/6545	-6.77	-6.77	-6.49	-6.49	-3.62	-2.70	-1.00	PASS
802.11ax HE160	CH 111/6505	-6.38	-6.38	-6.04	-6.04	-3.20	-2.28	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD $=10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10} + 10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{0.5/10} + 10^{1.3/10})/2]$ =0.92 dBi<6dBi.

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Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 117/6535	-5.84	-5.84	-5.80	-5.80	-2.81	-1.89	-1.00	PASS
	CH 149/6695	-5.82	-5.82	-5.12	-5.12	-2.45	-1.53	-1.00	PASS
	CH 181/6855	-5.58	-5.58	-5.42	-5.42	-2.49	-1.57	-1.00	PASS
	CH 185/6875	-7.65	-7.65	-7.29	-7.29	-4.46	-3.54	-1.00	PASS
802.11ax HE40	CH 115/6525	-5.63	-5.63	-5.82	-5.82	-2.71	-1.80	-1.00	PASS
	CH 123/6565	-6.03	-6.03	-5.35	-5.35	-2.67	-1.75	-1.00	PASS
	CH 147/6685	-5.82	-5.82	-5.60	-5.60	-2.70	-1.78	-1.00	PASS
	CH 179/6845	-5.95	-5.95	-5.14	-5.14	-2.52	-1.60	-1.00	PASS
	CH 187/6885	-8.74	-8.74	-7.71	-7.71	-5.18	-4.27	-1.00	PASS
802.11ax HE80	CH 119/6545	-5.60	-5.60	-5.95	-5.95	-2.76	-1.84	-1.00	PASS
	CH 135/6625	-5.49	-5.49	-5.27	-5.27	-2.37	-1.45	-1.00	PASS
	CH 151/6705	-5.86	-5.86	-5.37	-5.37	-2.60	-1.68	-1.00	PASS
	CH 167/6785	-5.63	-5.63	-5.85	-5.85	-2.73	-1.81	-1.00	PASS
	CH 183/6865	-7.87	-7.87	-7.52	-7.52	-4.68	-3.76	-1.00	PASS
802.11ax HE160	CH 111/6505	-7.14	-7.14	-6.67	-6.67	-3.89	-2.97	-1.00	PASS
	CH 143/6665	-7.60	-7.60	-6.53	-6.53	-4.02	-3.10	-1.00	PASS
	CH 175/6825	-6.54	-6.54	-6.78	-6.78	-3.65	-2.73	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD $=10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10} + 10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{0.5/10} + 10^{1.3/10})/2]$ =0.92 dBi<6dBi.

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Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 185/6875	-7.70	-7.70	-7.38	-7.38	-4.53	-1.28	-1.00	PASS
	CH 189/6895	-7.69	-7.69	-7.19	-7.19	-4.42	-1.17	-1.00	PASS
	CH 209/6995	-7.70	-7.70	-7.35	-7.35	-4.51	-1.26	-1.00	PASS
	CH 229/7095	-7.93	-7.93	-7.62	-7.62	-4.76	-1.51	-1.00	PASS
802.11ax HE40	CH 187/6885	-7.85	-7.85	-7.10	-7.10	-4.45	-1.20	-1.00	PASS
	CH 203/6965	-7.95	-7.95	-7.14	-7.14	-4.52	-1.27	-1.00	PASS
	CH 227/7085	-8.04	-8.04	-7.16	-7.16	-4.57	-1.32	-1.00	PASS
802.11ax HE80	CH 183/6865	-7.87	-7.87	-7.42	-7.42	-4.63	-1.38	-1.00	PASS
	CH 199/6945	-7.82	-7.82	-7.44	-7.44	-4.62	-1.37	-1.00	PASS
	CH 215/7025	-7.58	-7.58	-7.26	-7.26	-4.41	-1.16	-1.00	PASS
802.11ax HE160	CH 175/6825	-8.04	-8.04	-7.69	-7.69	-4.85	-1.60	-1.00	PASS
	CH 207/6985	-8.01	-8.01	-7.69	-7.69	-4.84	-1.59	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD =$10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)d)(ii): If antenna gains are not equal, If all transmit signals are completely uncorrelated, then

Directional gain = $10\log[(10^{G1/10} + 10^{G2/10})/N_{ANT}]$ dBi = $10\log[(10^{3.3/10} + 10^{3.2/10})/2]$ =3.25 dBi<6dBi.

Beamforming

U-NII-5

Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 1/5955	-9.22	-9.22	-8.77	-8.77	-5.98	-1.17	-1.00	PASS
	CH 45/6175	-9.50	-9.50	-8.49	-8.49	-5.96	-1.15	-1.00	PASS
	CH 93/6415	-9.14	-9.14	-9.20	-9.20	-6.16	-1.35	-1.00	PASS
802.11ax HE40	CH 03/5965	-9.23	-9.23	-8.92	-8.92	-6.06	-1.25	-1.00	PASS
	CH 43/6165	-9.45	-9.45	-8.81	-8.81	-6.11	-1.30	-1.00	PASS
	CH 91/6405	-8.89	-8.89	-8.91	-8.91	-5.89	-1.08	-1.00	PASS
802.11ax HE80	CH 7/5985	-9.36	-9.36	-9.07	-9.07	-6.20	-1.39	-1.00	PASS
	CH 39/6145	-9.03	-9.03	-8.89	-8.89	-5.95	-1.14	-1.00	PASS
	CH 87/6385	-9.19	-9.19	-8.60	-8.60	-5.87	-1.06	-1.00	PASS
802.11ax HE160	CH 15/6025	-9.06	-9.06	-8.74	-8.74	-5.89	-1.08	-1.00	PASS
	CH 47/6185	-9.06	-9.06	-8.85	-8.85	-5.94	-1.13	-1.00	PASS
	CH 79/6345	-9.10	-9.10	-9.23	-9.23	-6.15	-1.34	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD =$10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/Nss)=1.8+10log (2/1）=4.81 dBi< 6dBi.

U-NII-6

Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 97/6435	-8.46	-8.46	-9.27	-9.27	-5.84	-1.53	-1.00	PASS
	CH 105/6475	-8.48	-8.48	-8.93	-8.93	-5.69	-1.38	-1.00	PASS
	CH 113/6515	-8.38	-8.38	-9.30	-9.30	-5.81	-1.50	-1.00	PASS
802.11ax HE40	CH 99/6445	-8.91	-8.91	-8.65	-8.65	-5.77	-1.46	-1.00	PASS
	CH 107/6485	-8.75	-8.75	-8.68	-8.68	-5.70	-1.39	-1.00	PASS
	CH 115/6525	-8.64	-8.64	-8.81	-8.81	-5.71	-1.40	-1.00	PASS
802.11ax HE80	CH 103/6465	-8.68	-8.68	-9.10	-9.10	-5.87	-1.56	-1.00	PASS
	CH 119/6545	-9.33	-9.33	-8.89	-8.89	-6.09	-1.78	-1.00	PASS
802.11ax HE160	CH 111/6505	-8.53	-8.53	-8.74	-8.74	-5.62	-1.31	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD $=10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/Nss)=1.3+10log (2/1）=4.31 dBi< 6dBi..

U-NII-7

Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 117/6535	-8.19	-8.19	-8.65	-8.65	-5.40	-1.09	-1.00	PASS
	CH 149/6695	-8.90	-8.90	-9.53	-9.53	-6.19	-1.88	-1.00	PASS
	CH 181/6855	-8.87	-8.87	-8.16	-8.16	-5.49	-1.18	-1.00	PASS
	CH 185/6875	-11.70	-11.70	-10.87	-10.87	-8.25	-3.94	-1.00	PASS
802.11ax HE40	CH 115/6525	-8.63	-8.63	-8.55	-8.55	-5.58	-1.27	-1.00	PASS
	CH 123/6565	-8.66	-8.66	-8.64	-8.64	-5.64	-1.33	-1.00	PASS
	CH 147/6685	-8.77	-8.77	-8.23	-8.23	-5.48	-1.17	-1.00	PASS
	CH 179/6845	-8.75	-8.75	-8.20	-8.20	-5.46	-1.15	-1.00	PASS
	CH 187/6885	-11.74	-11.74	-10.31	-10.31	-7.96	-3.65	-1.00	PASS
802.11ax HE80	CH 119/6545	-8.61	-8.61	-8.27	-8.27	-5.43	-1.12	-1.00	PASS
	CH 135/6625	-8.85	-8.85	-8.62	-8.62	-5.72	-1.41	-1.00	PASS
	CH 151/6705	-8.62	-8.62	-8.27	-8.27	-5.43	-1.12	-1.00	PASS
	CH 167/6785	-8.49	-8.49	-8.80	-8.80	-5.63	-1.32	-1.00	PASS
	CH 183/6865	-10.98	-10.98	-10.09	-10.09	-7.50	-3.19	-1.00	PASS
802.11ax HE160	CH 111/6505	-8.51	-8.51	-8.91	-8.91	-5.70	-1.38	-1.00	PASS
	CH 143/6665	-9.38	-9.38	-8.54	-8.54	-5.93	-1.62	-1.00	PASS
	CH 175/6825	-9.58	-9.58	-9.80	-9.80	-6.68	-2.37	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD $=10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

3. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/Nss)=1.3+10log (2/1）=4.31 dBi< 6dBi.

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Mode	Channel/ Frequency (MHz)	Power Spectral Density						Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)	Total e.i.r.p PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm /MHz)	Read Value (dBm/MHz)	PSD (dBm /MHz)				
802.11ax HE20	CH 185/6875	-10.80	-10.80	-10.43	-10.43	-7.60	-1.29	-1.00	PASS
	CH 189/6895	-10.51	-10.51	-10.27	-10.27	-7.38	-1.07	-1.00	PASS
	CH 209/6995	-10.90	-10.90	-10.34	-10.34	-7.60	-1.29	-1.00	PASS
	CH 229/7095	-10.73	-10.73	-10.61	-10.61	-7.66	-1.35	-1.00	PASS
802.11ax HE40	CH 187/6885	-10.68	-10.68	-10.06	-10.06	-7.35	-1.04	-1.00	PASS
	CH 203/6965	-10.84	-10.84	-10.23	-10.23	-7.51	-1.20	-1.00	PASS
	CH 227/7085	-10.88	-10.88	-10.62	-10.62	-7.74	-1.43	-1.00	PASS
802.11ax HE80	CH 183/6865	-11.26	-11.26	-10.04	-10.04	-7.60	-1.29	-1.00	PASS
	CH 199/6945	-11.36	-11.36	-9.75	-9.75	-7.47	-1.16	-1.00	PASS
	CH 215/7025	-10.98	-10.98	-10.39	-10.39	-7.66	-1.35	-1.00	PASS
802.11ax HE160	CH 175/6825	-10.52	-10.52	-10.68	-10.68	-7.59	-1.28	-1.00	PASS
	CH 207/6985	-10.69	-10.69	-10.13	-10.13	-7.39	-1.08	-1.00	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

Total e.i.r.p PSD $=10\log(10^{(\text{PSD antenna1 in dBm/10})}+10^{(\text{PSD antenna2 in dBm/10})})$ + Gain

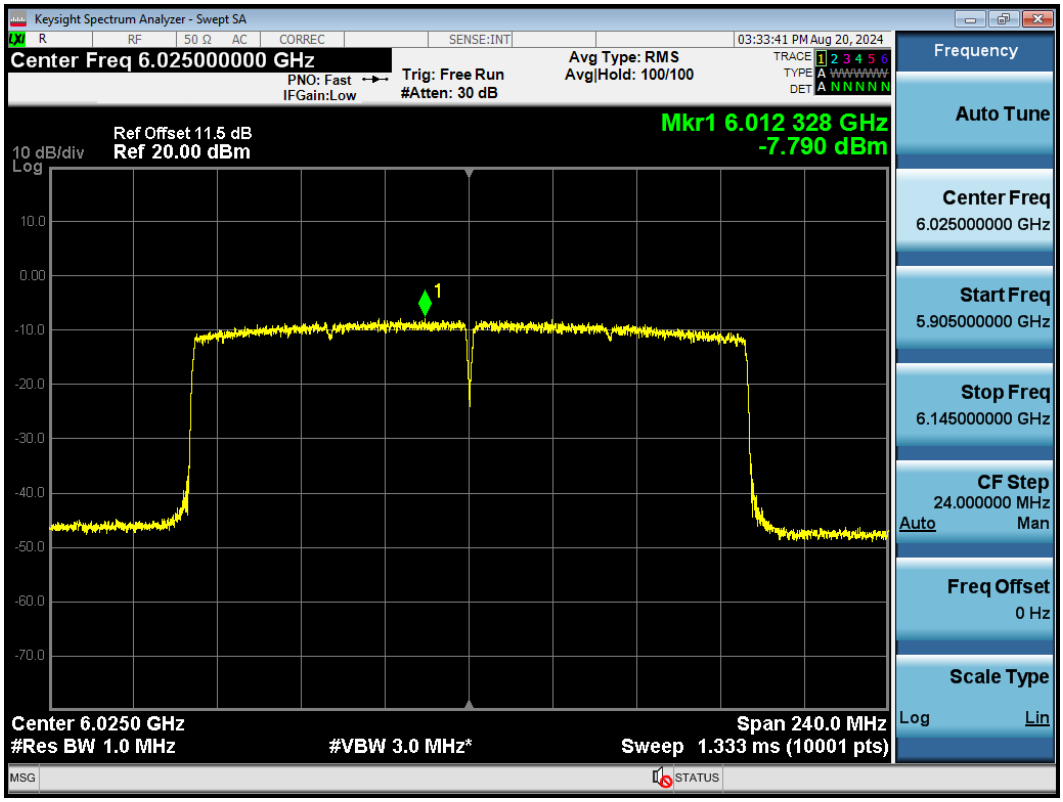
3. According to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/Nss)=3.3+10log (2/1）=6.31 dBi>6dBi.

SISO Antenna1

U-NII-5

PSD 802.11ax HE160 6025MHz



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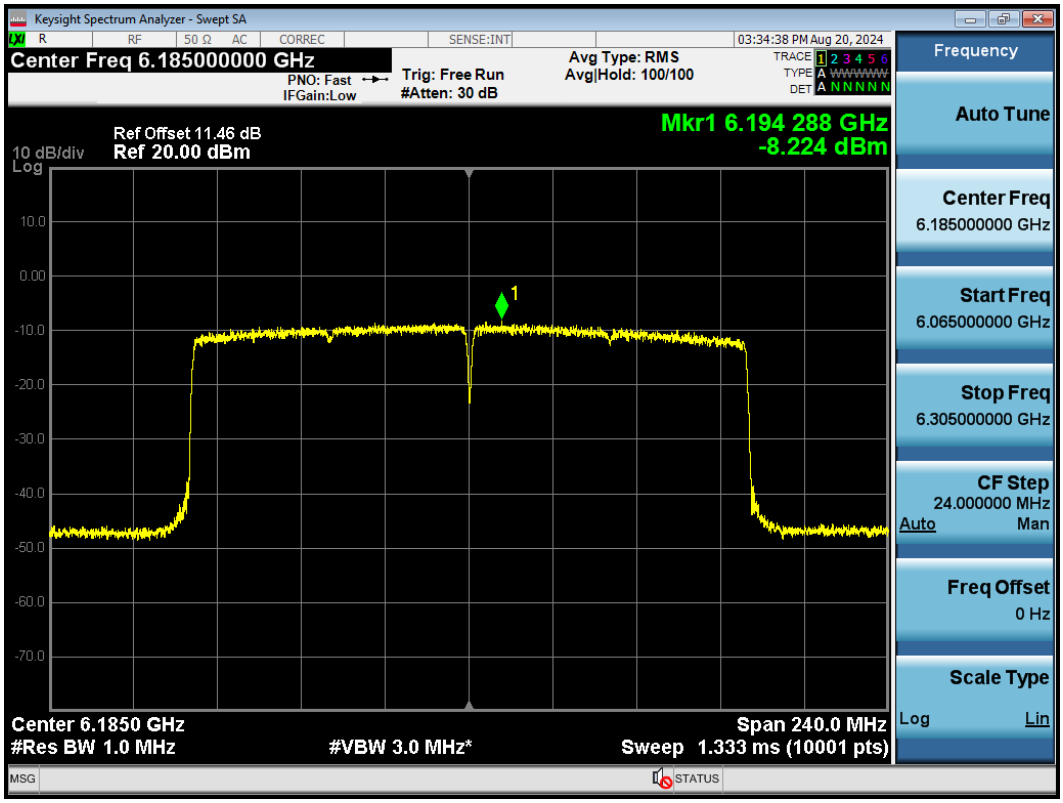
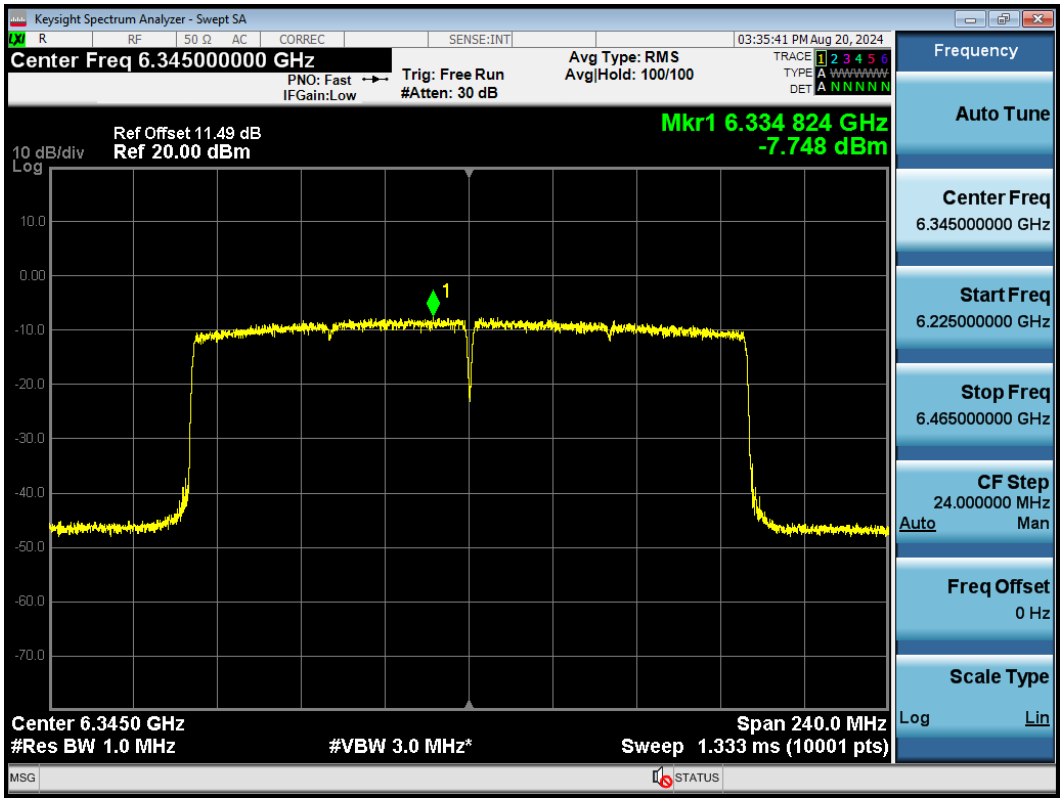


PSD 802.11ax HE160 6345MHz



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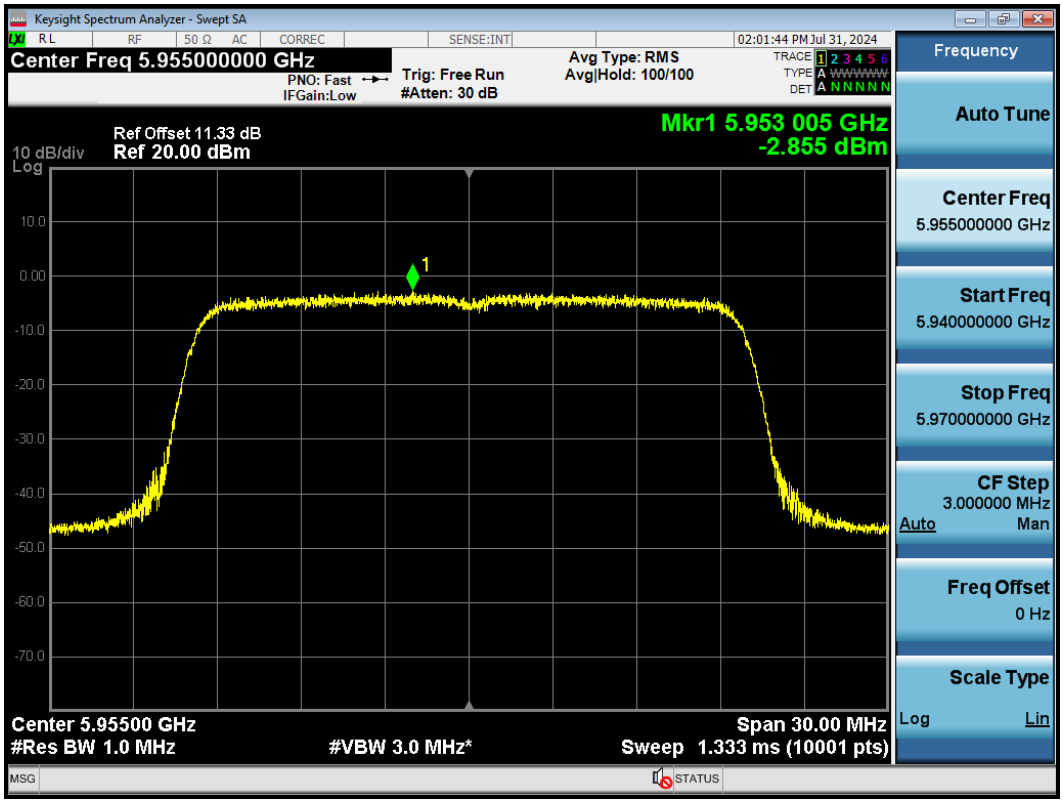
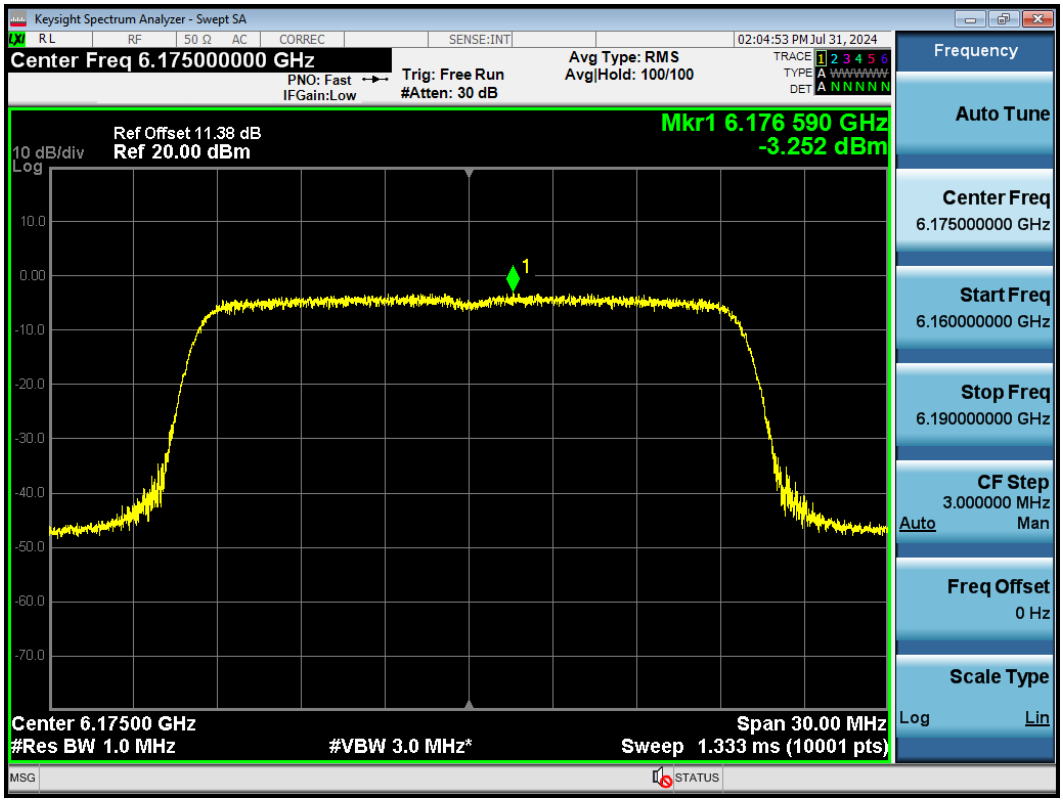
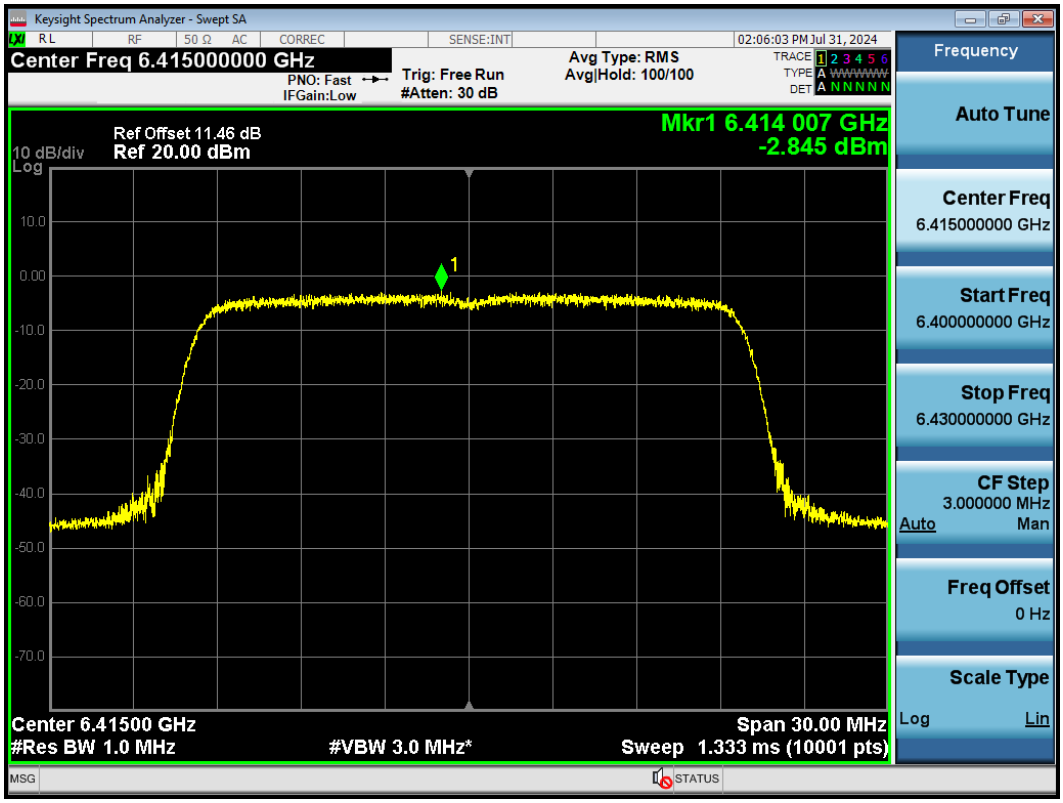


PSD 802.11ax HE20 6175MHz

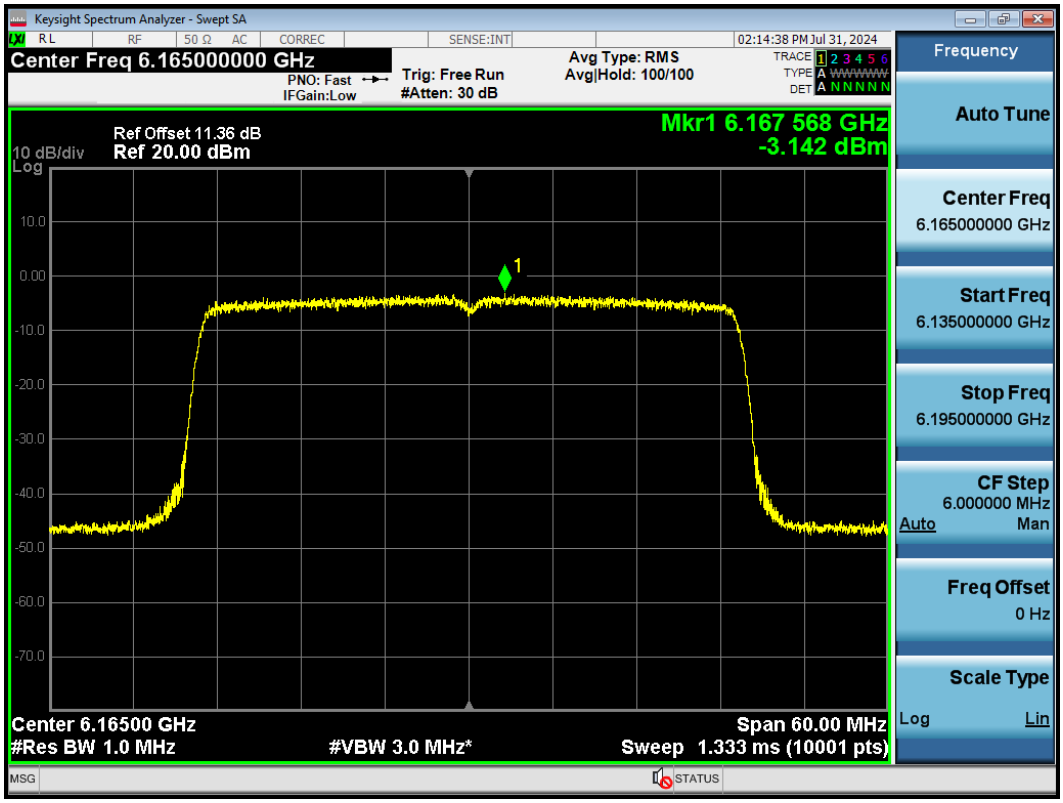


PSD 802.11ax HE20 6415MHz



PSD 802.11ax HE40 5965MHz

PSD 802.11ax HE40 6165MHz



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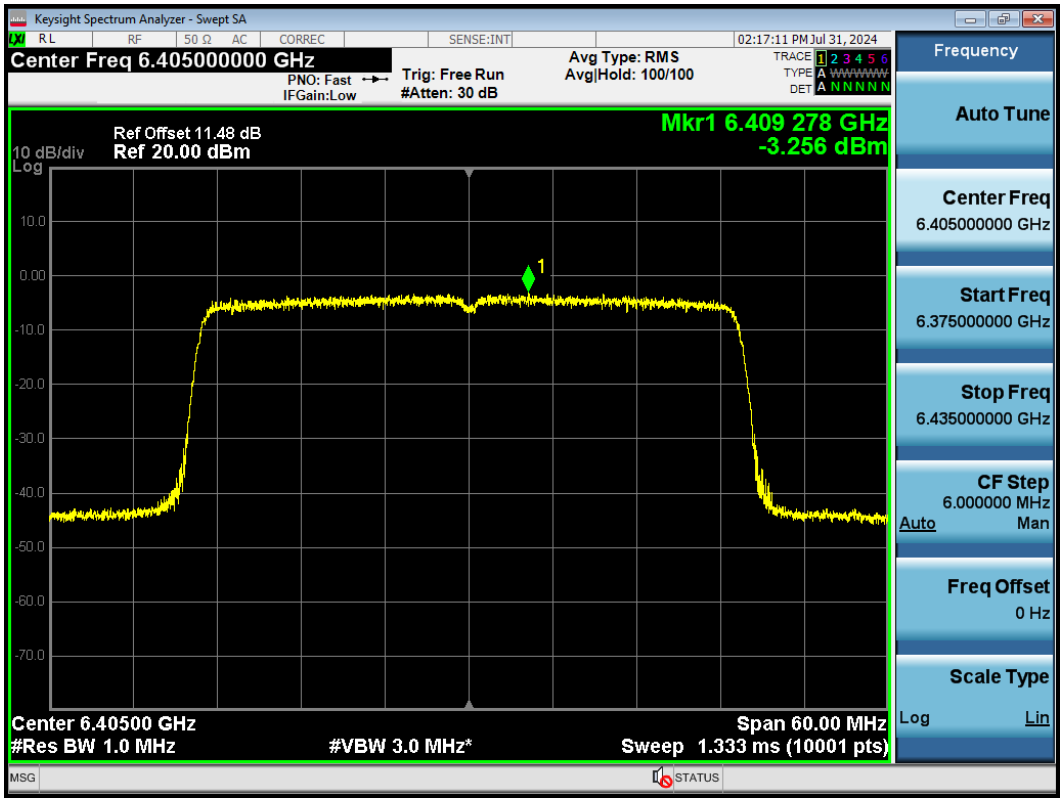
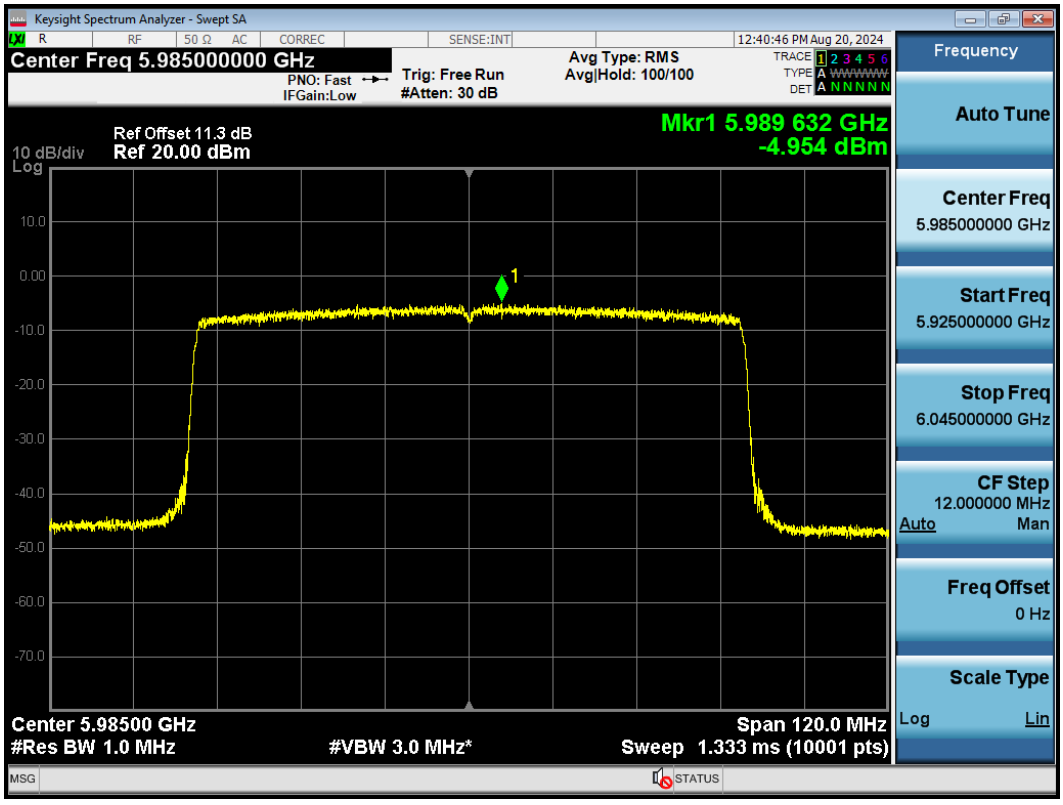
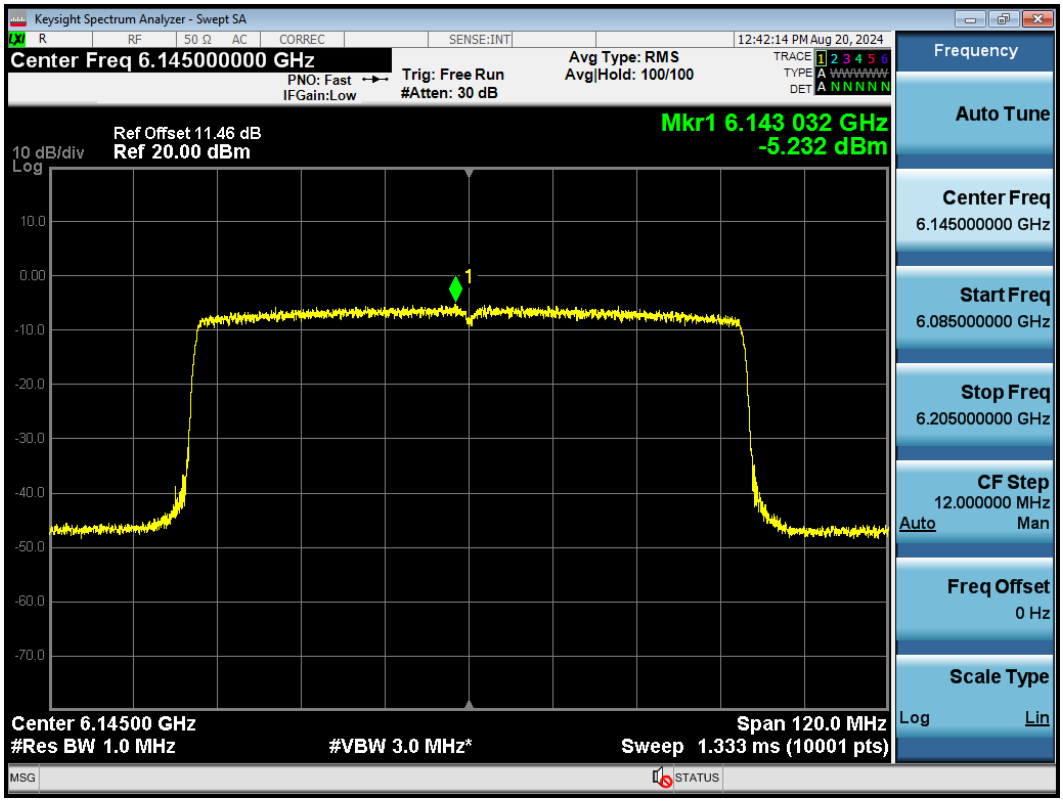


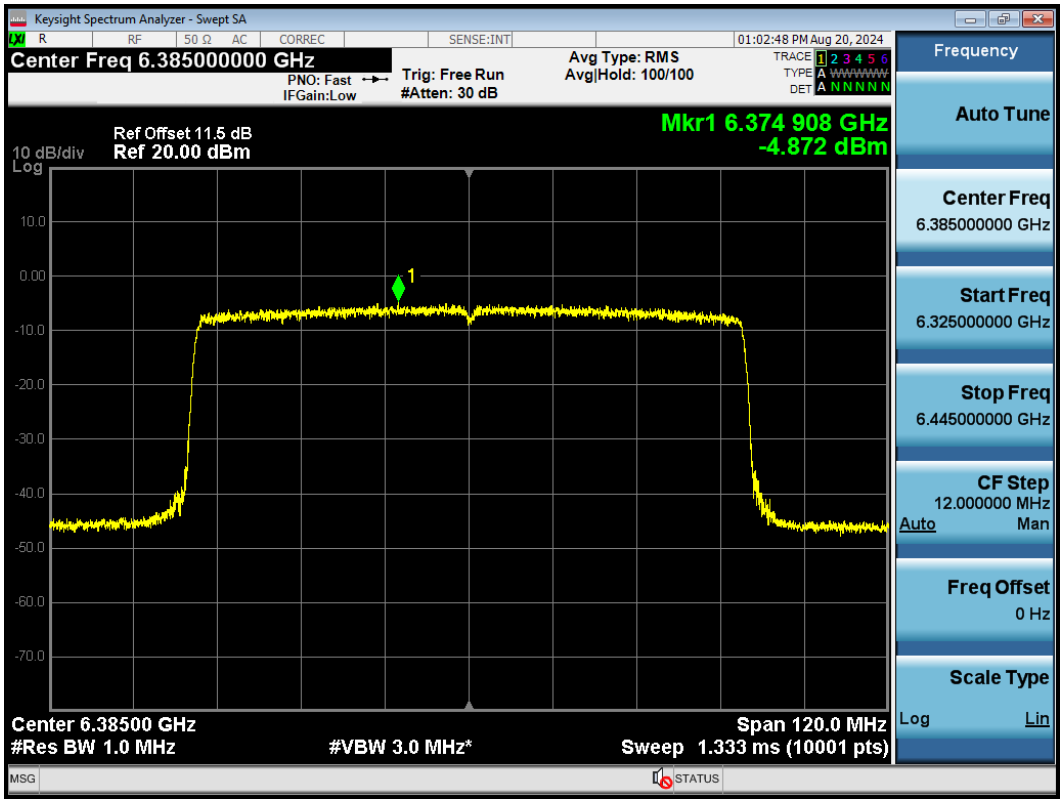
PSD 802.11ax HE80 5985MHz



PSD 802.11ax HE80 6145MHz



PSD 802.11ax HE80 6385MHz



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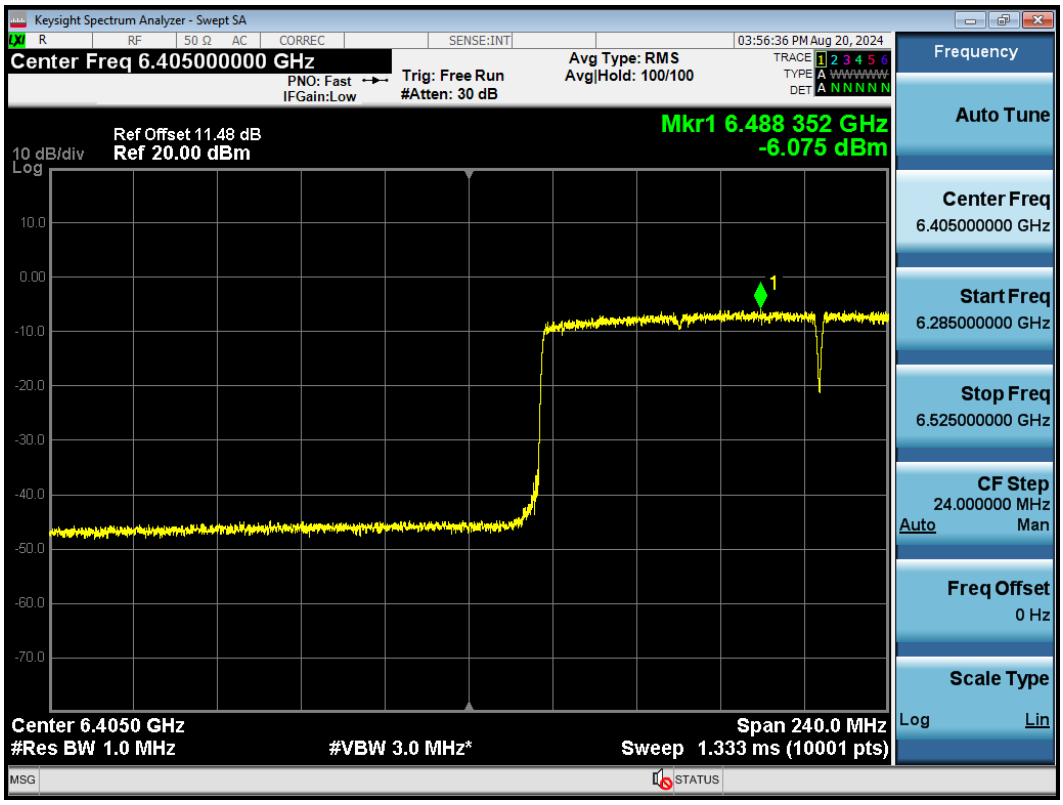
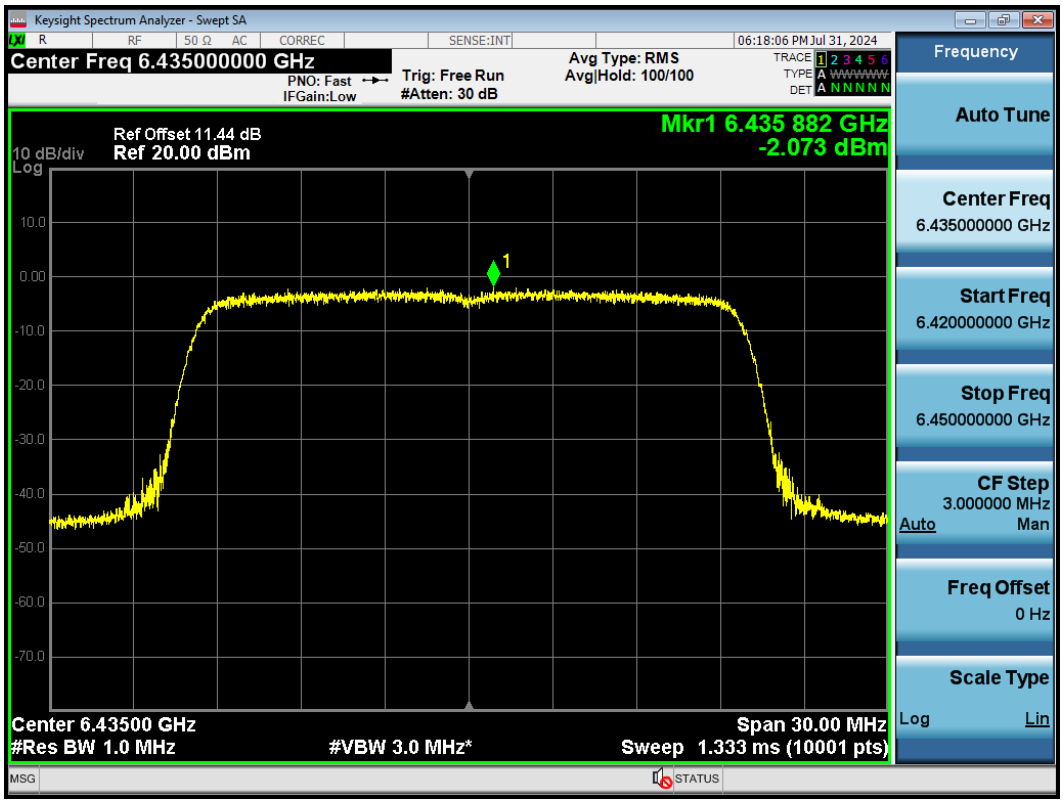
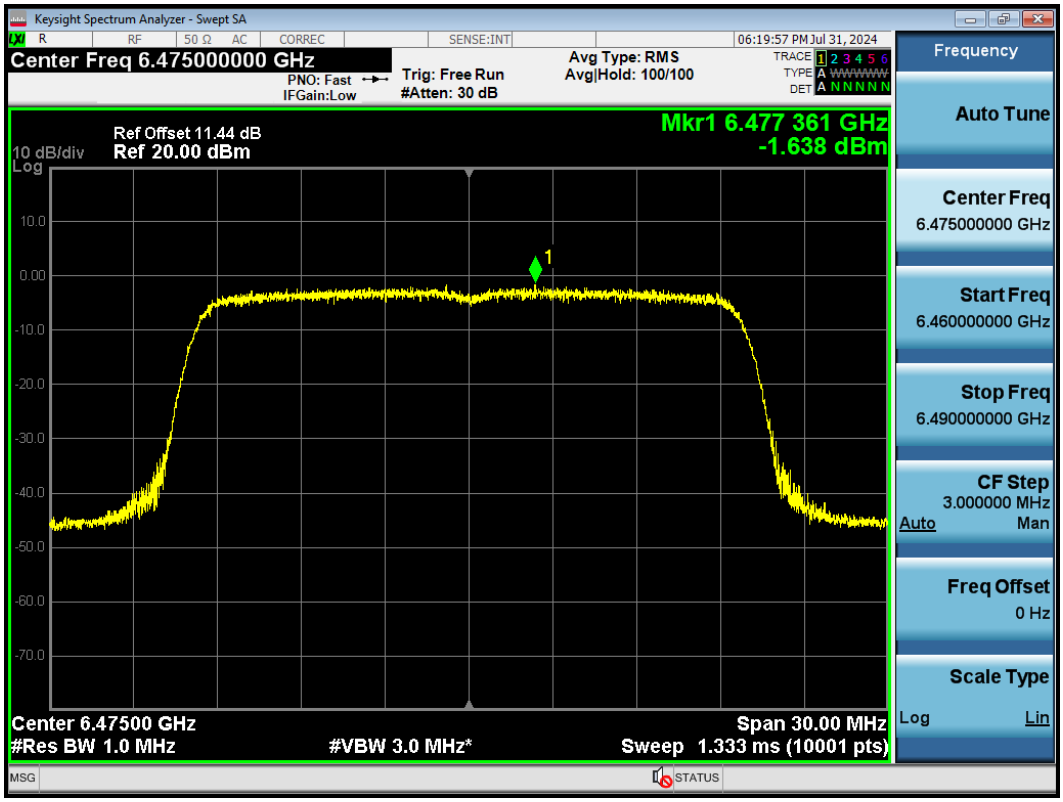
PSD 802.11ax HE160 6505MHz



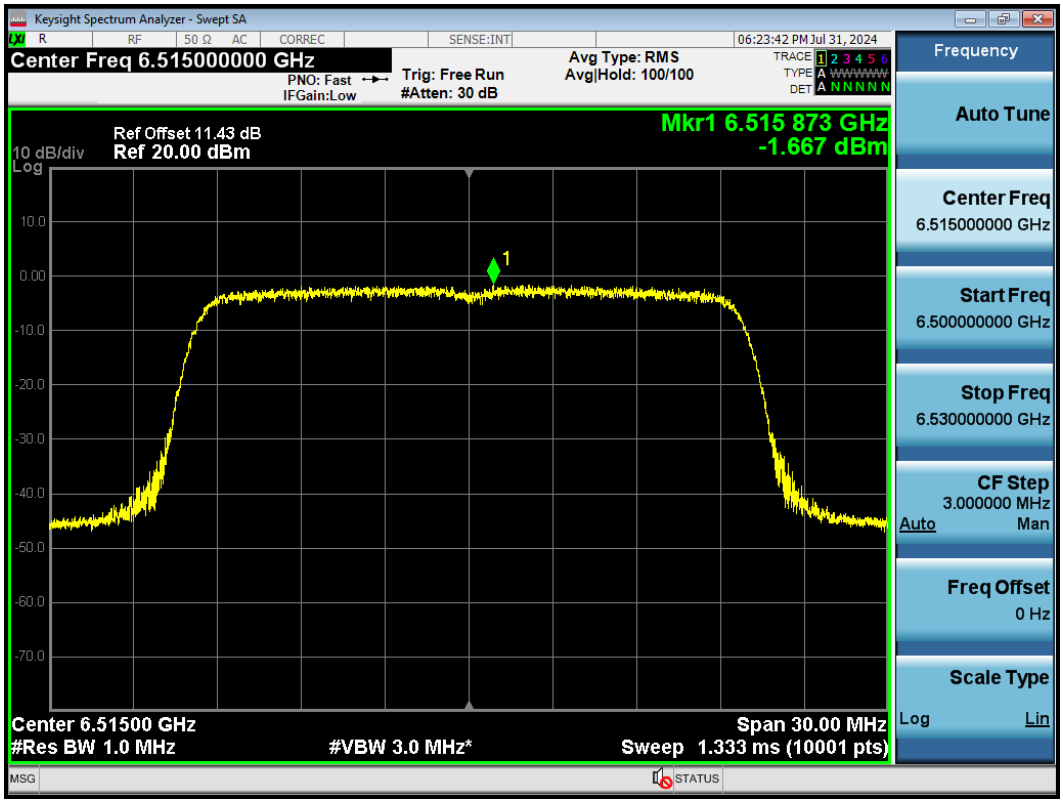
PSD 802.11ax HE20 6435MHz



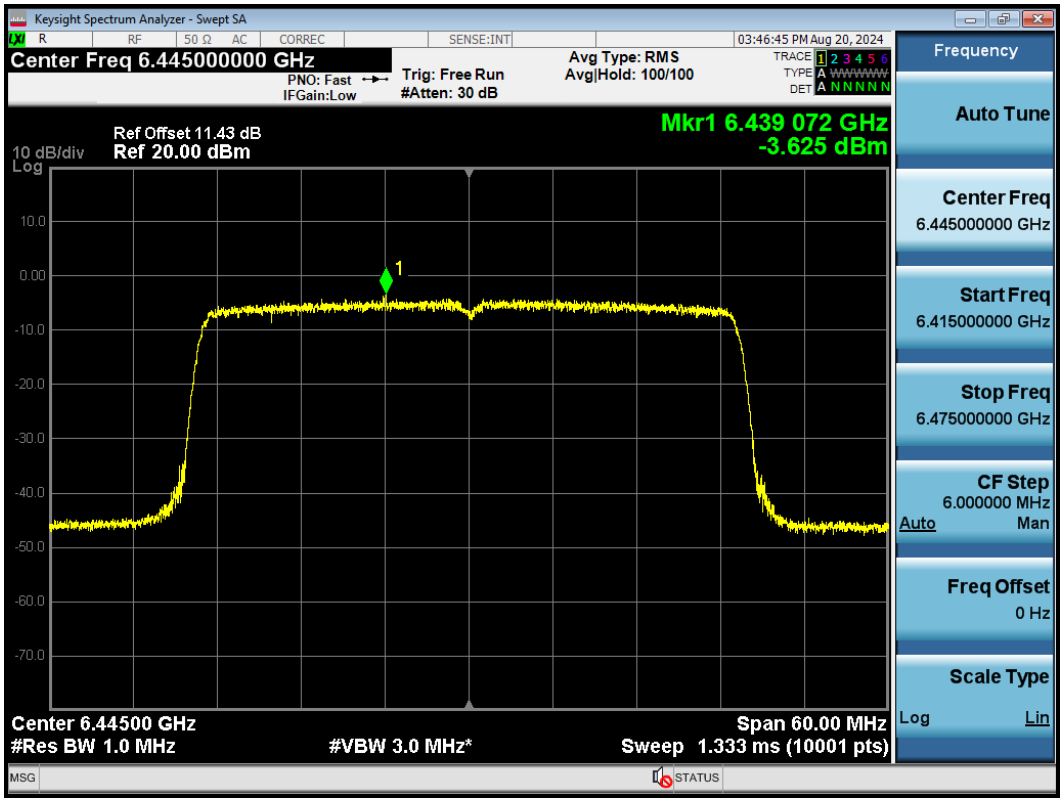
PSD 802.11ax HE20 6475MHz



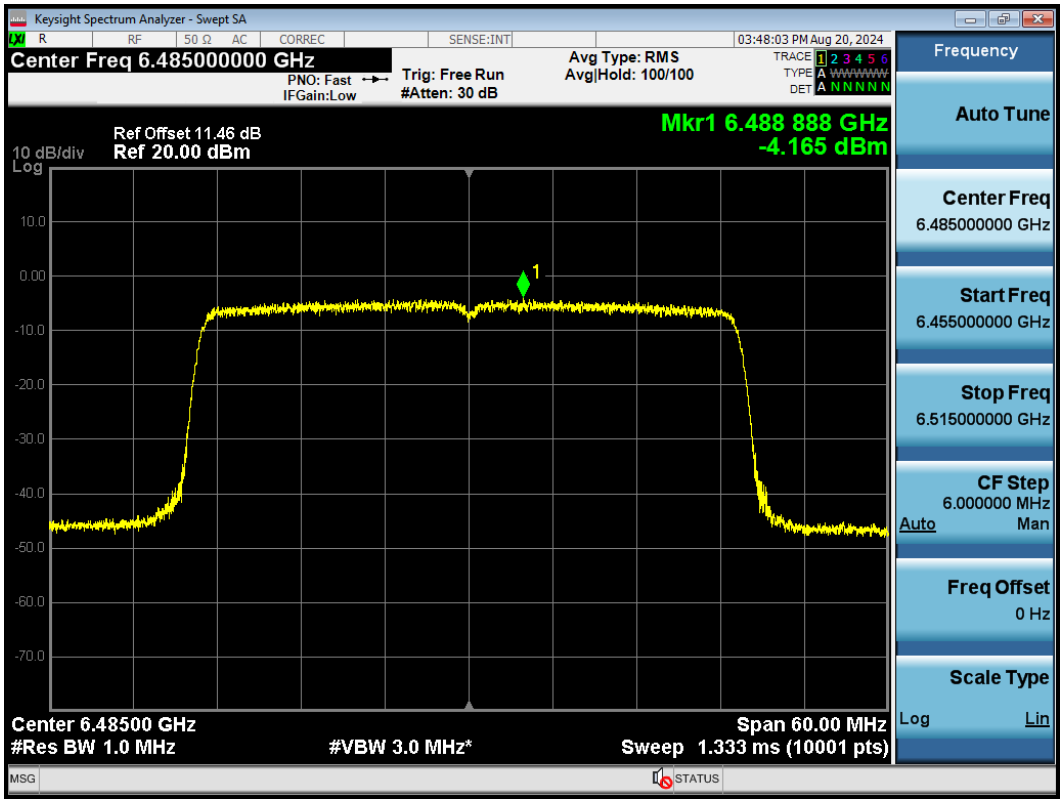
PSD 802.11ax HE20 6515MHz



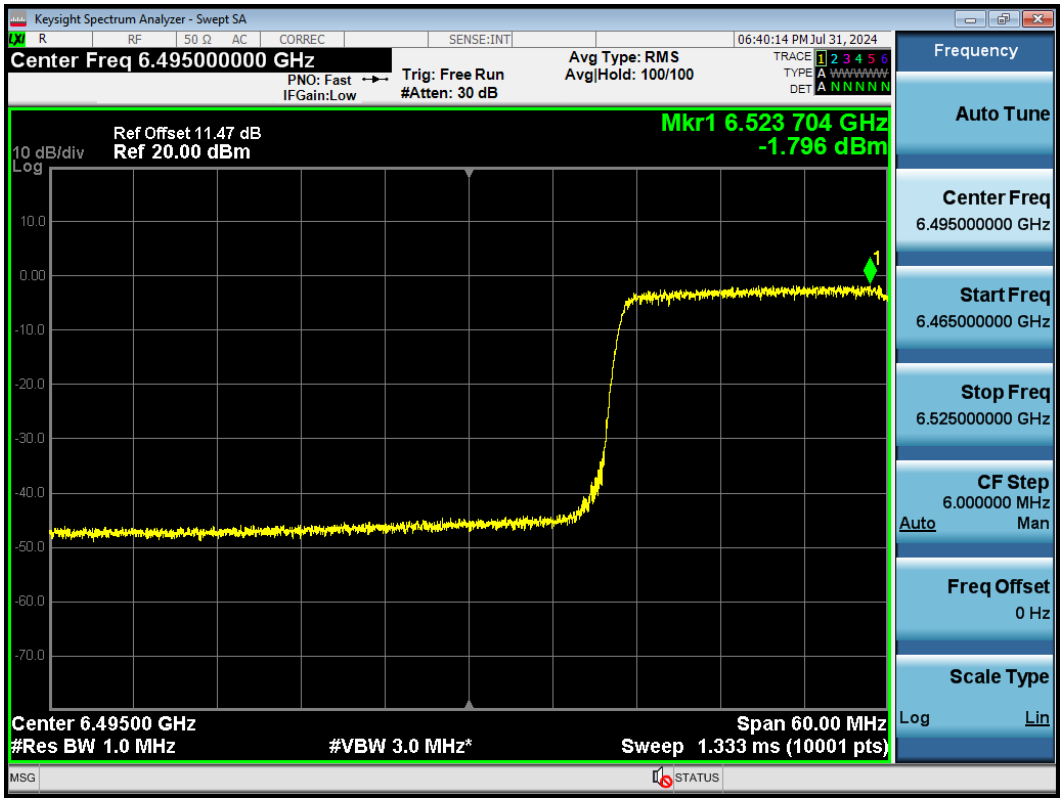
PSD 802.11ax HE40 6445MHz



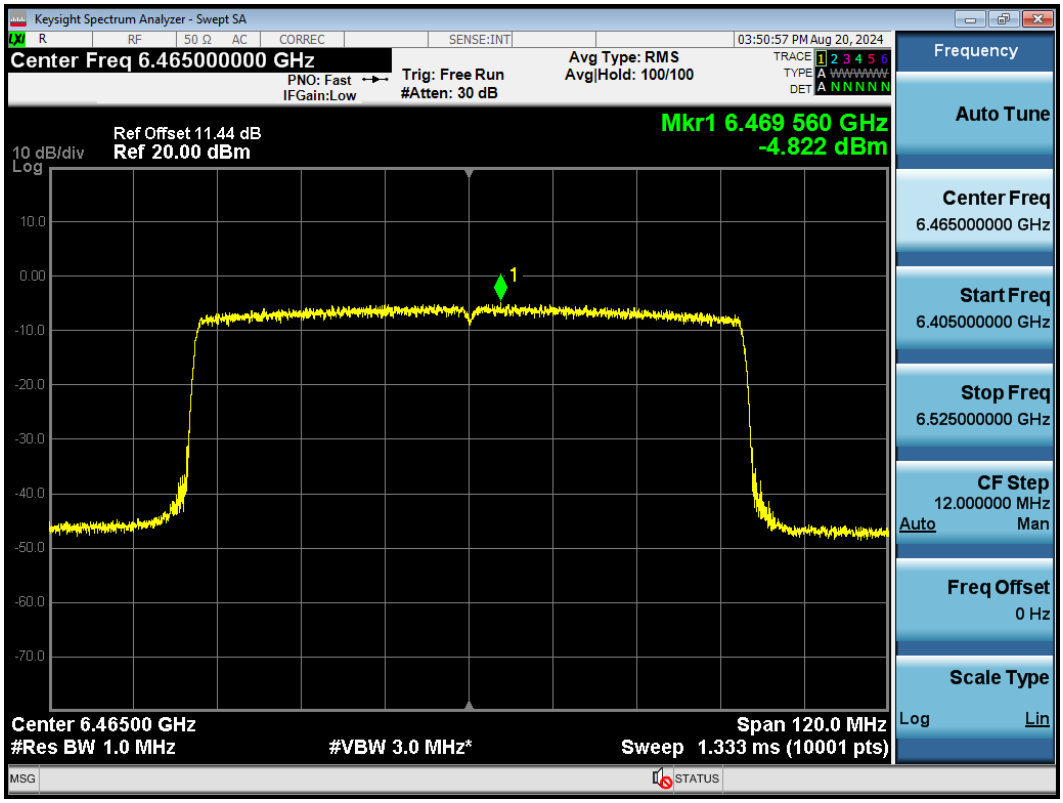
PSD 802.11ax HE40 6485MHz



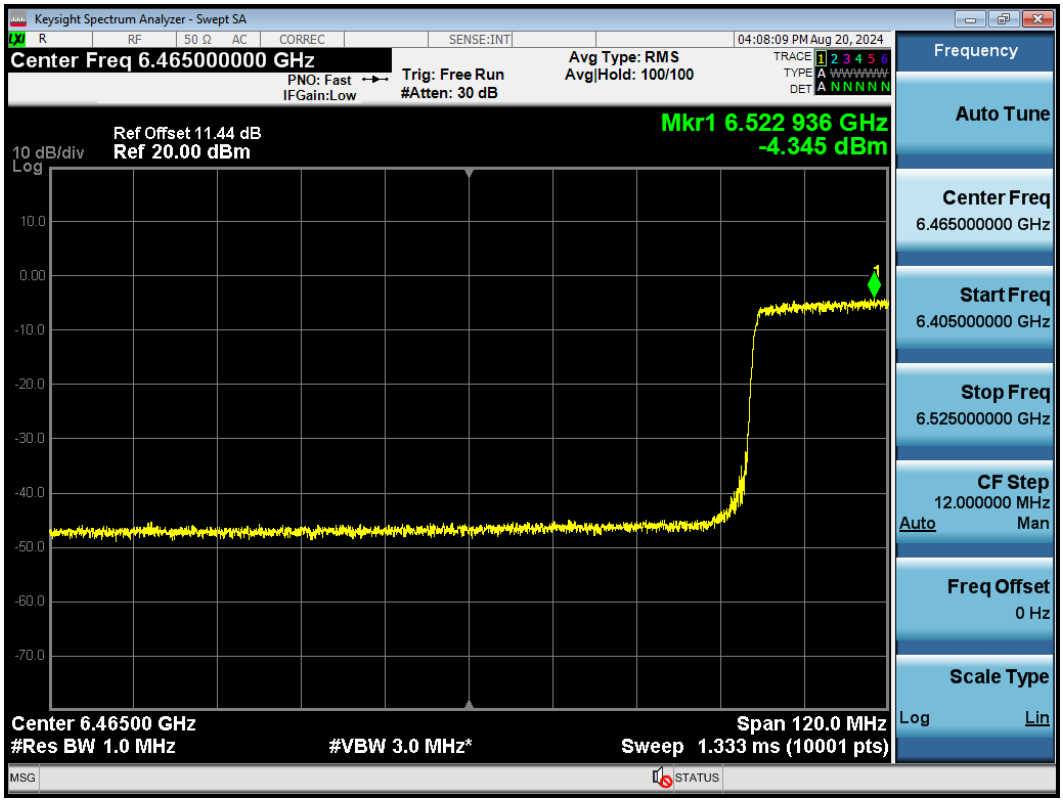
PSD 802.11ax HE40 6525MHz



PSD 802.11ax HE80 6465MHz



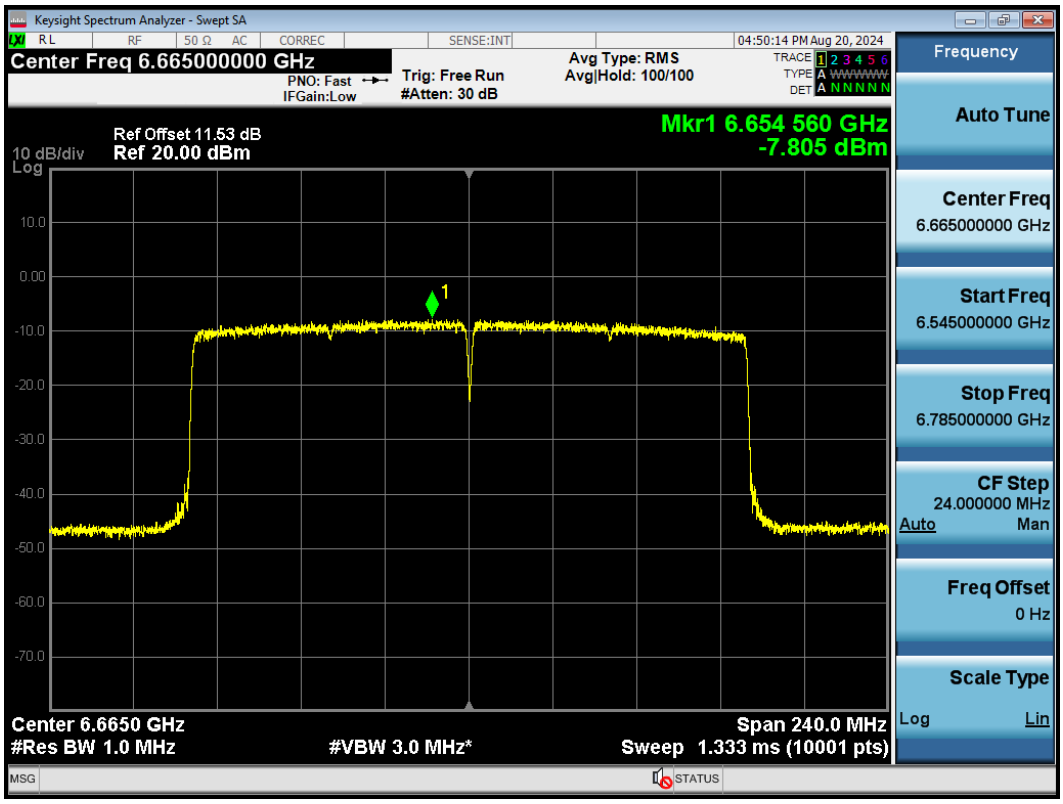
PSD 802.11ax HE80 6545MHz



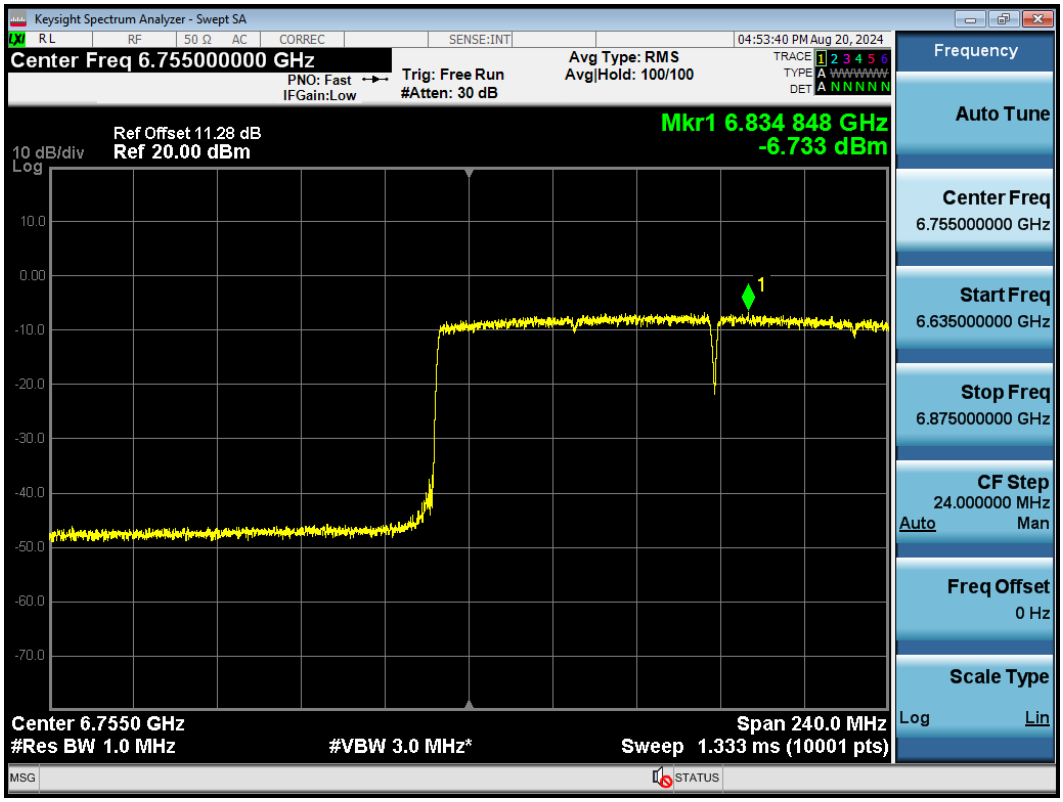
U-NII-7

PSD 802.11ax HE160 6505MHz

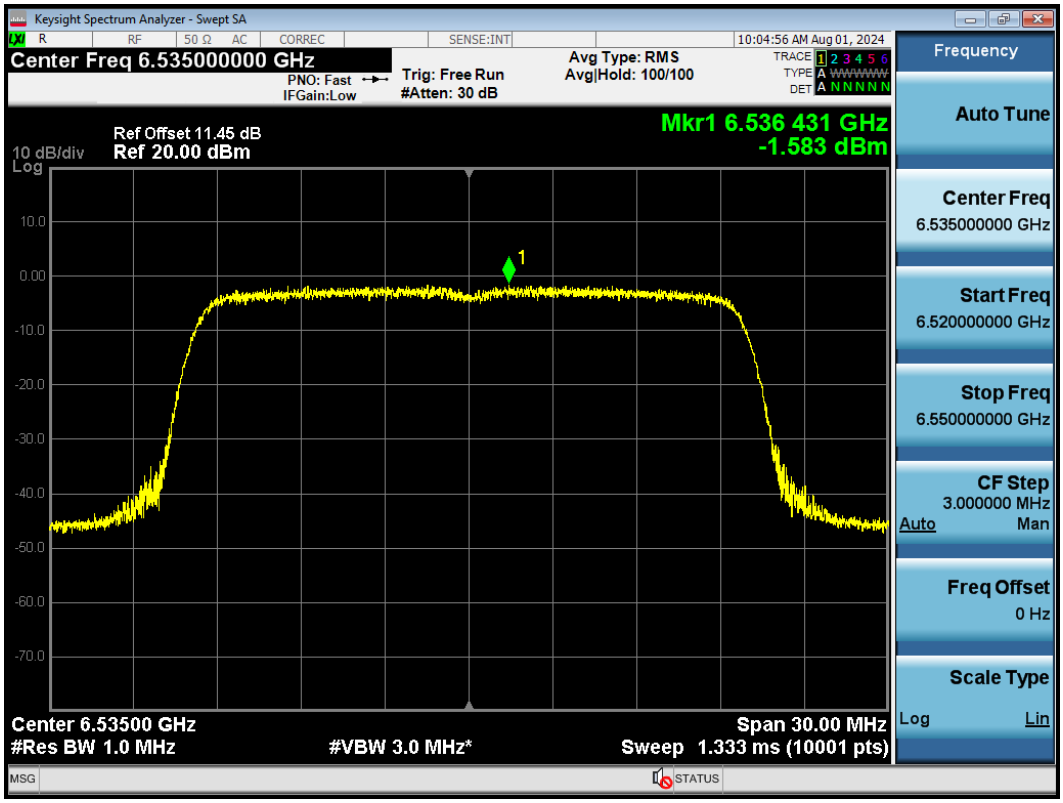
PSD 802.11ax HE160 6665MHz



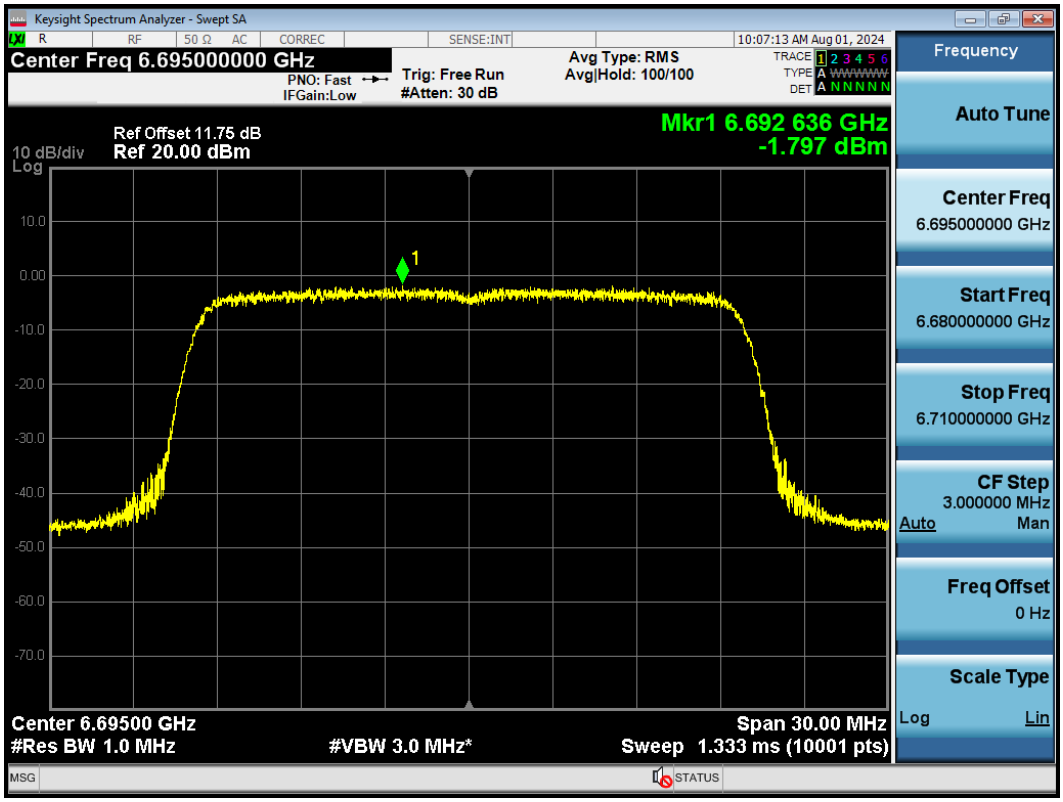
PSD 802.11ax HE160 6825MHz



PSD 802.11ax HE20 6535MHz



PSD 802.11ax HE20 6695MHz



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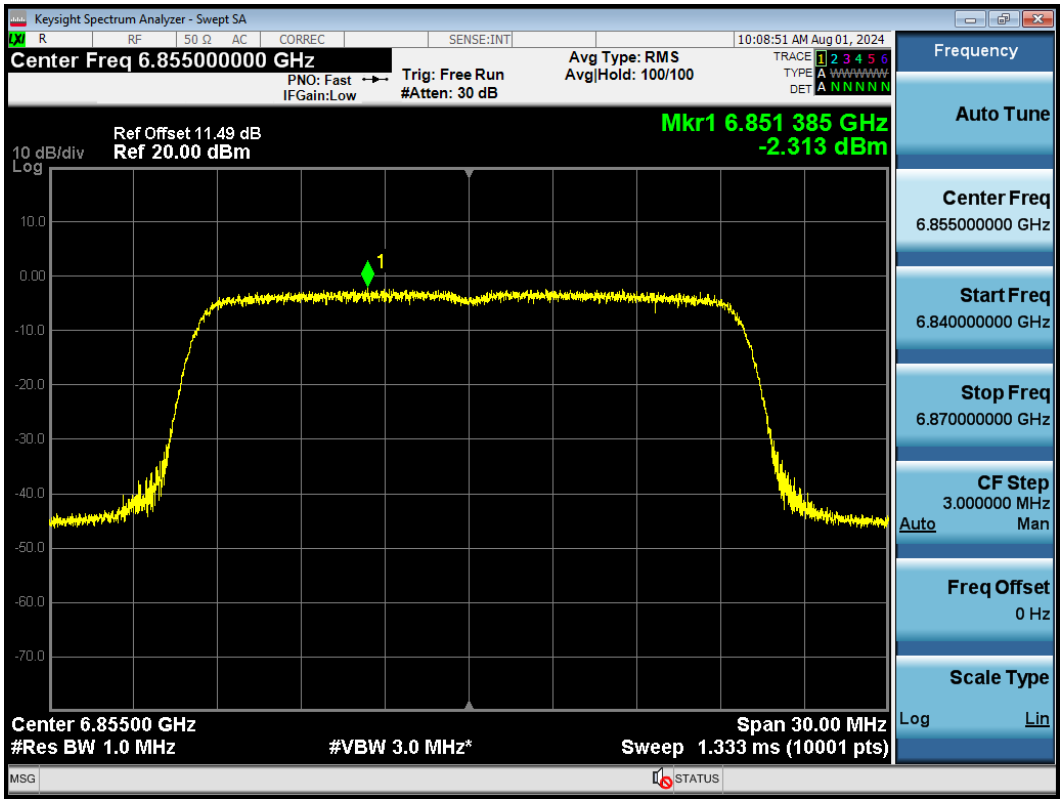
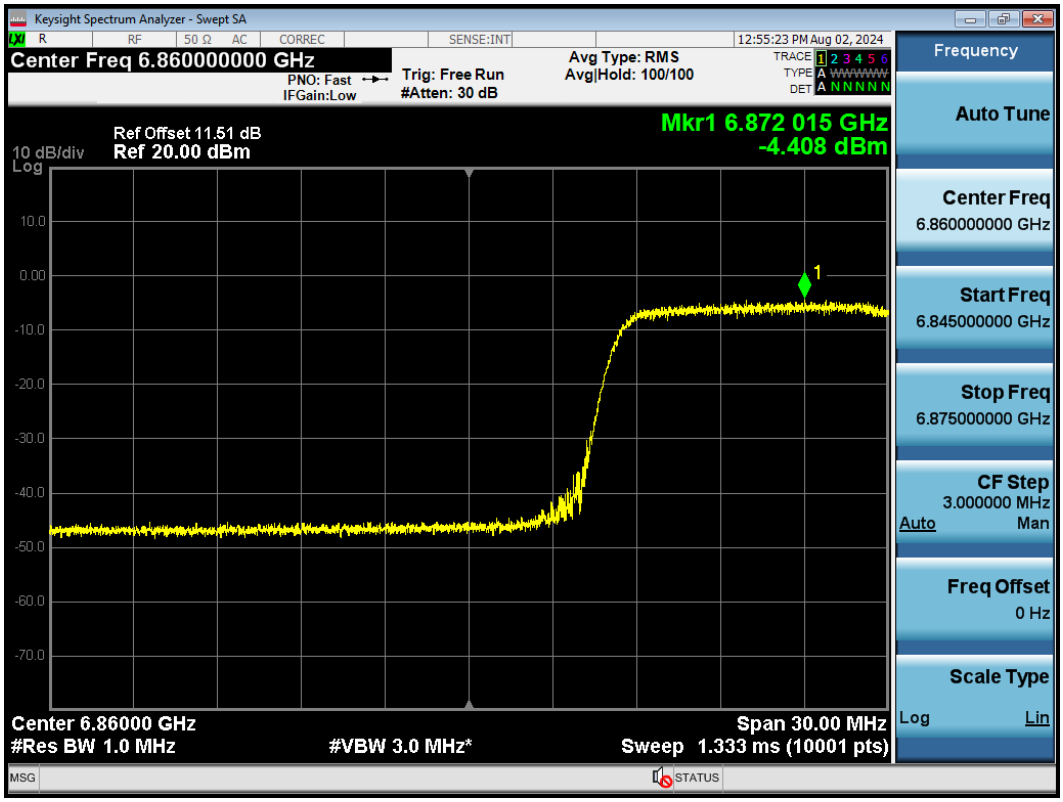
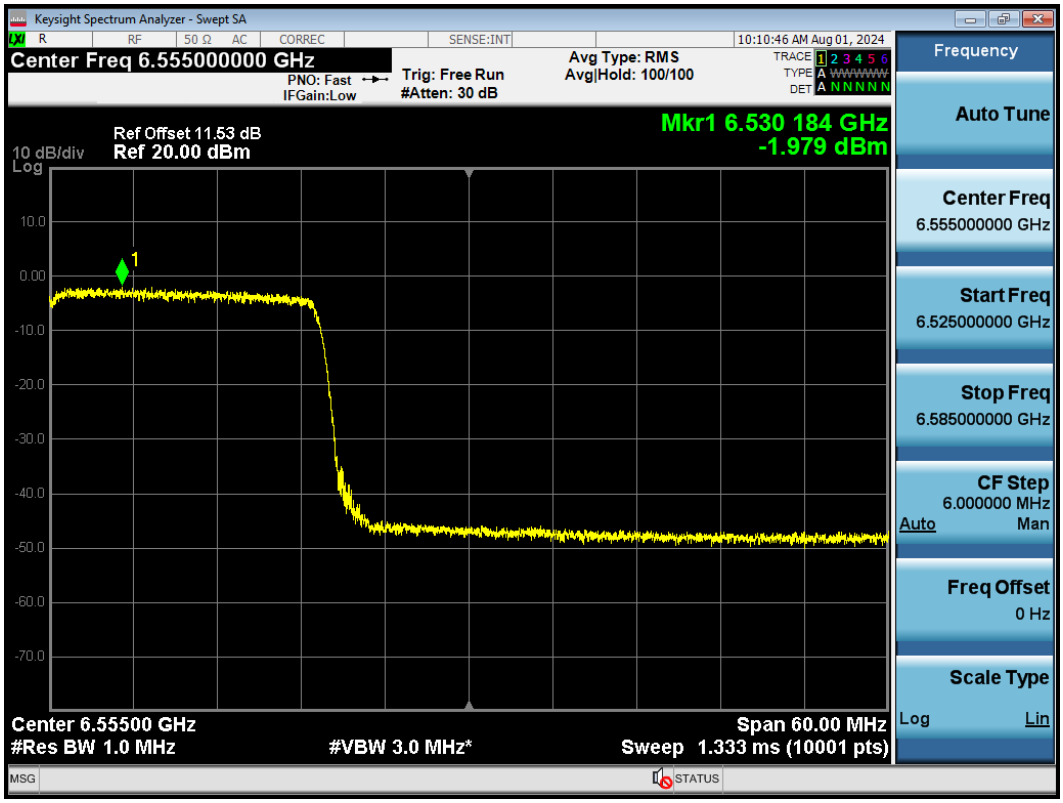


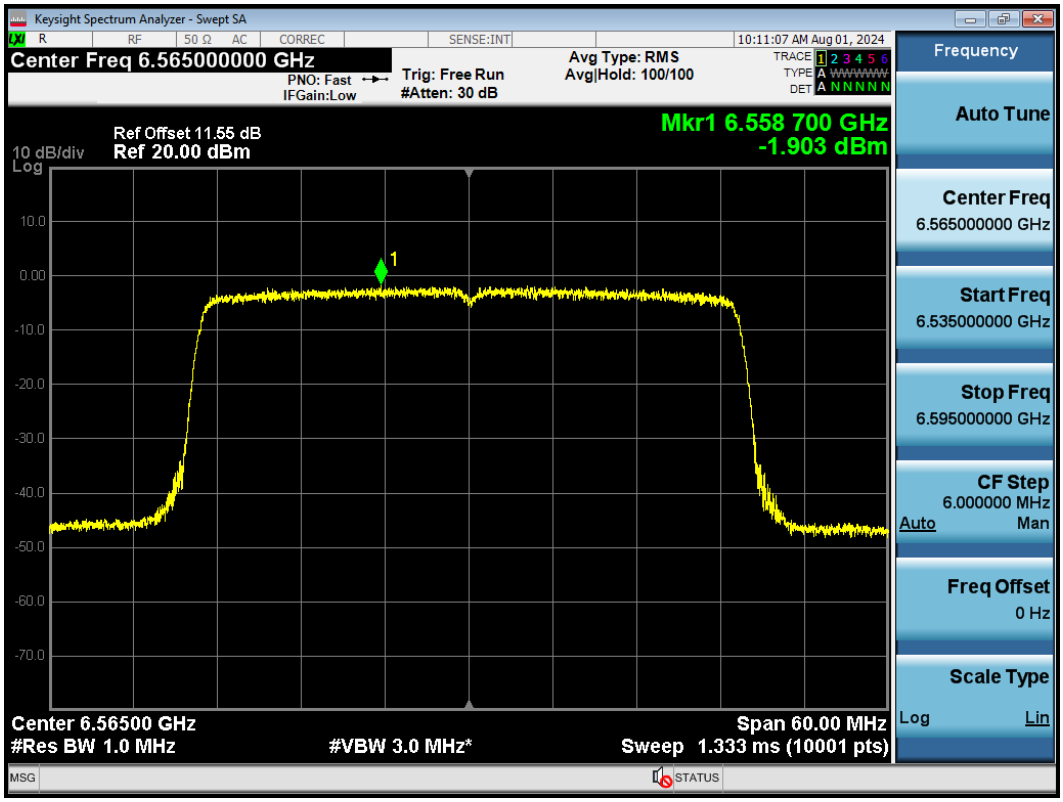
PSD 802.11ax HE20 6875MHz



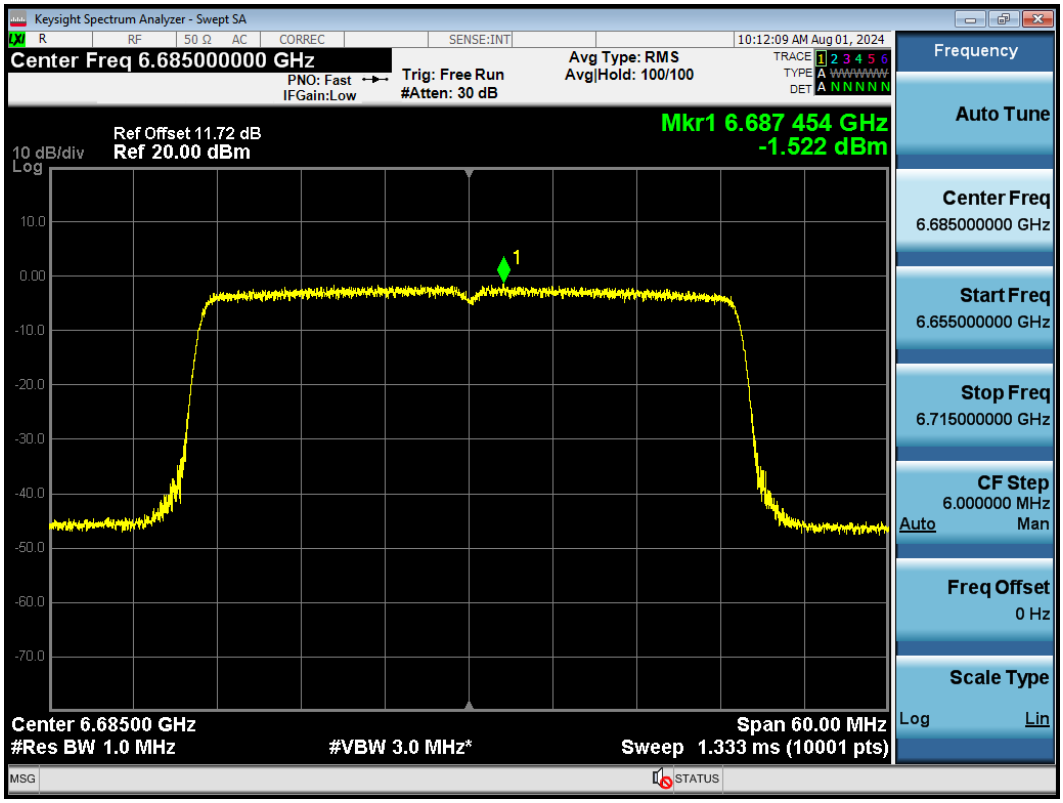
PSD 802.11ax HE40 6525MHz



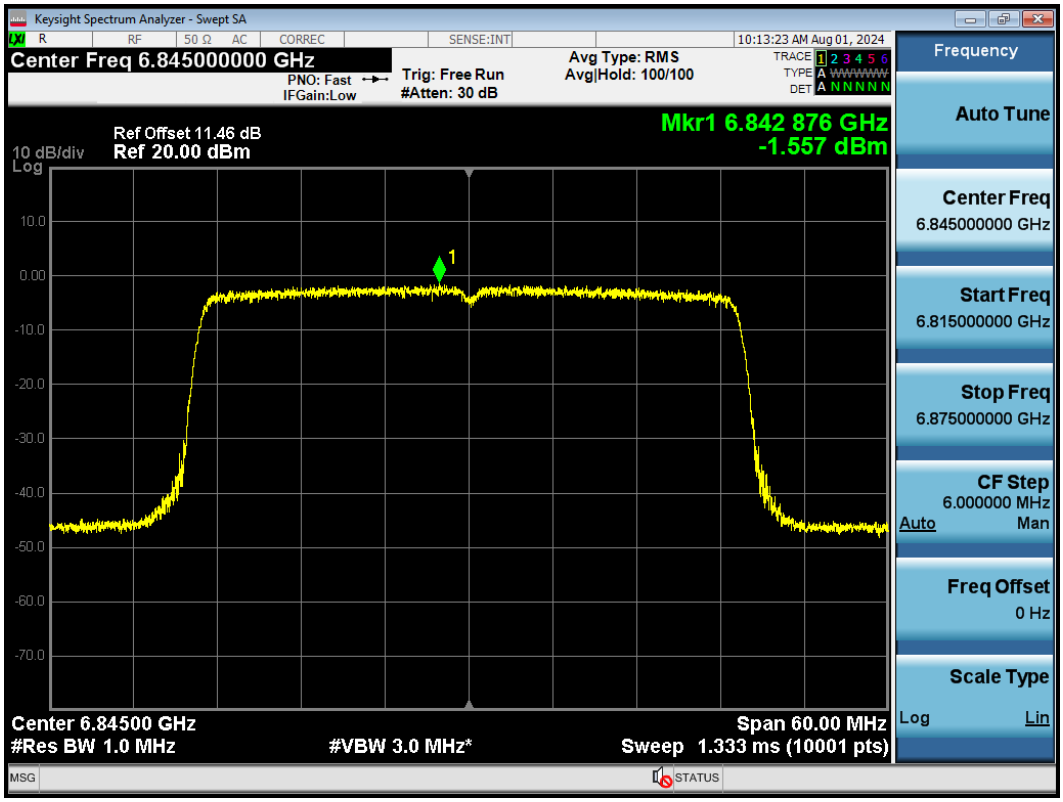
PSD 802.11ax HE40 6565MHz



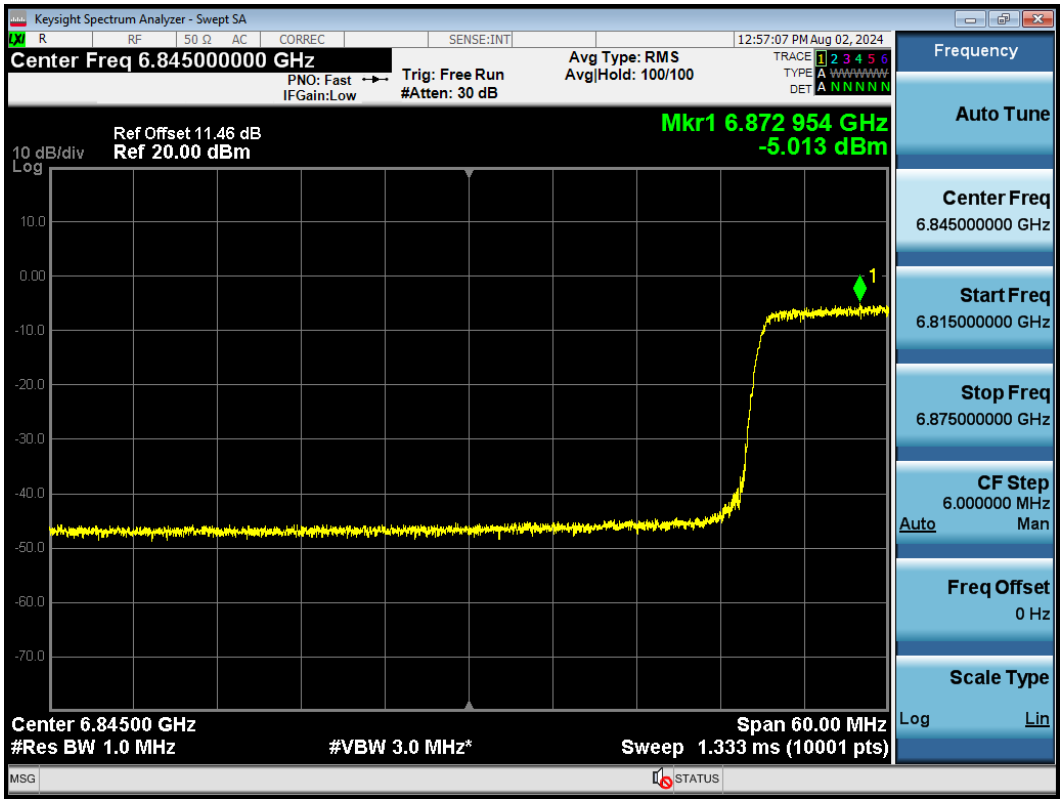
PSD 802.11ax HE40 6685MHz



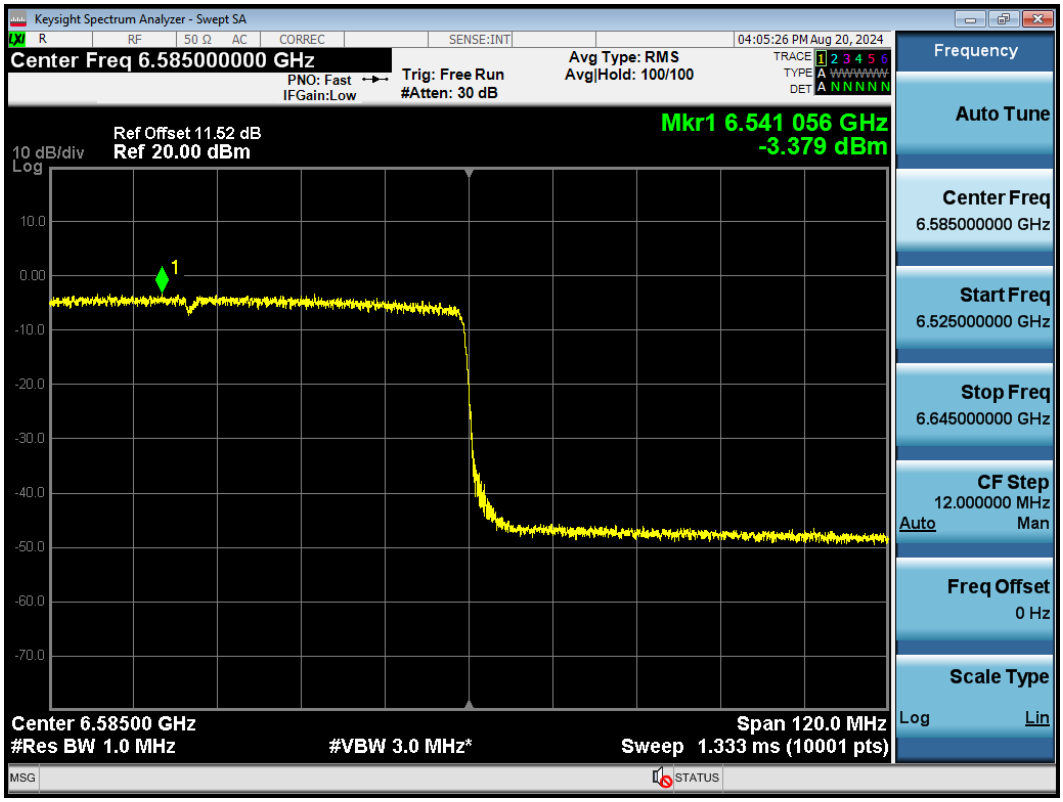
PSD 802.11ax HE40 6845MHz



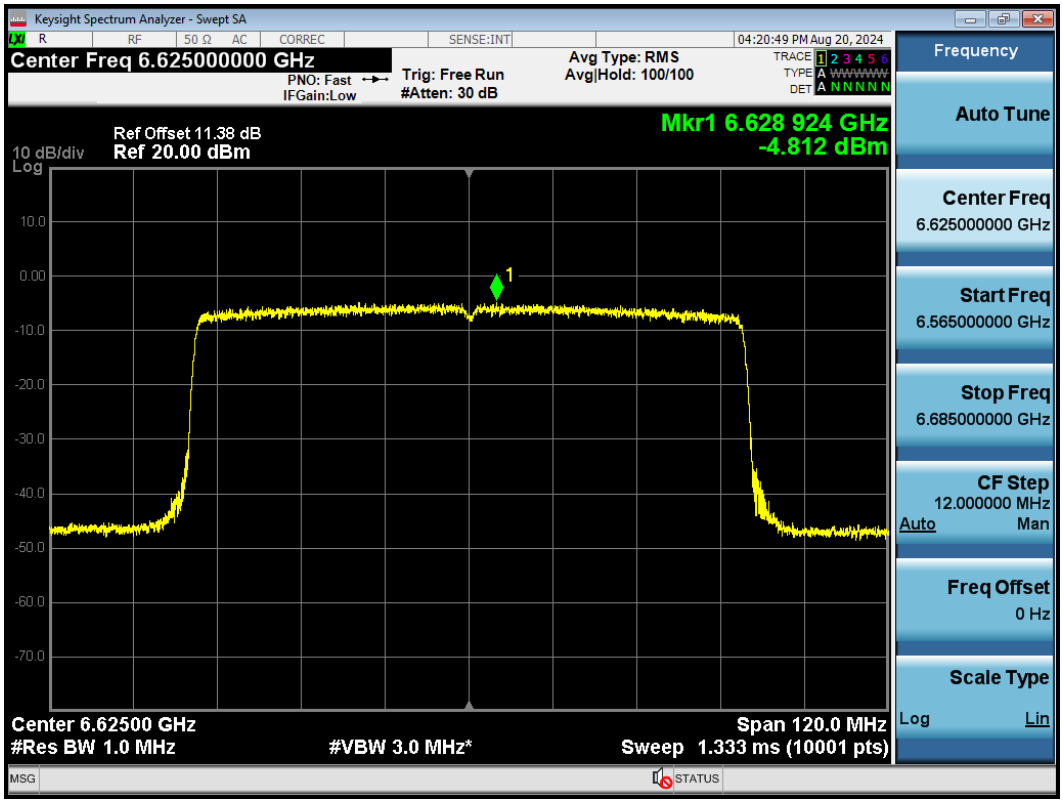
PSD 802.11ax HE40 6885MHz



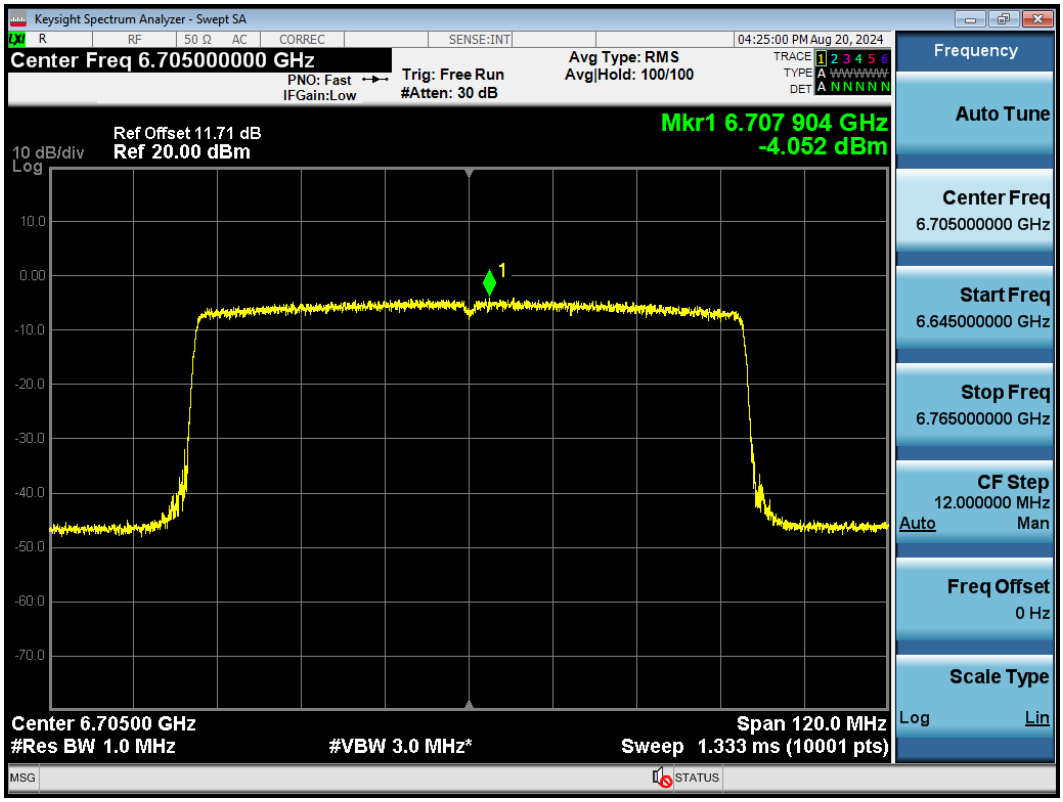
PSD 802.11ax HE80 6545MHz



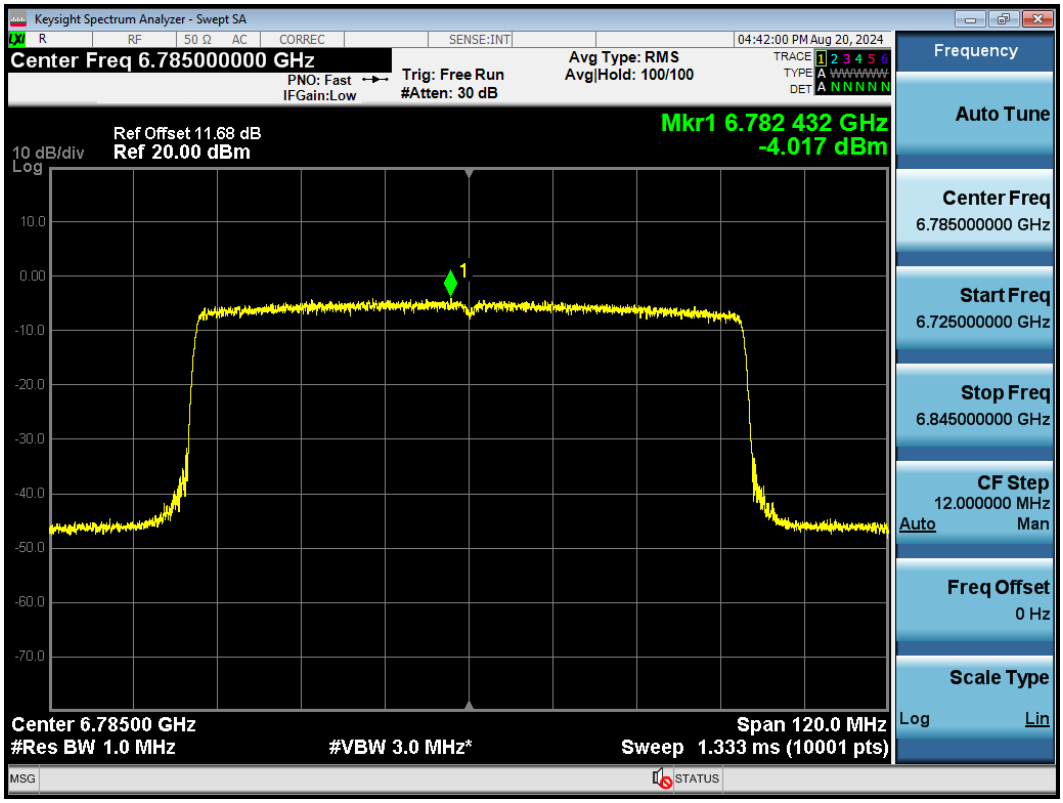
PSD 802.11ax HE80 6625MHz



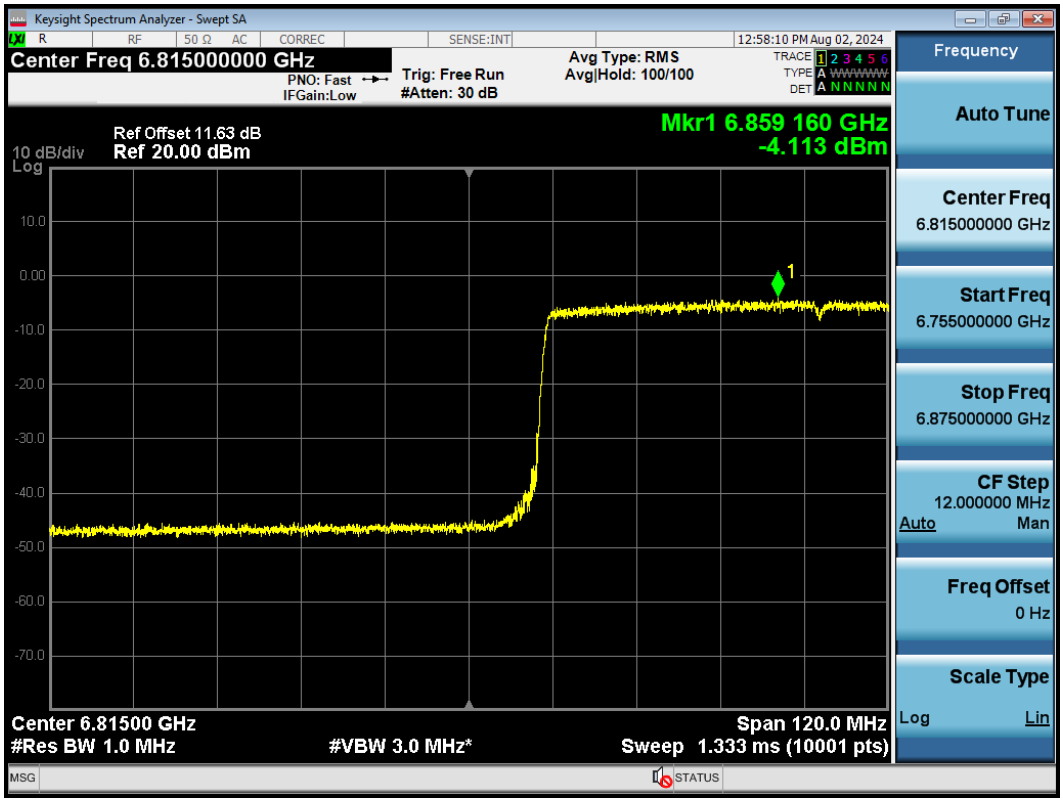
PSD 802.11ax HE80 6705MHz



PSD 802.11ax HE80 6785MHz

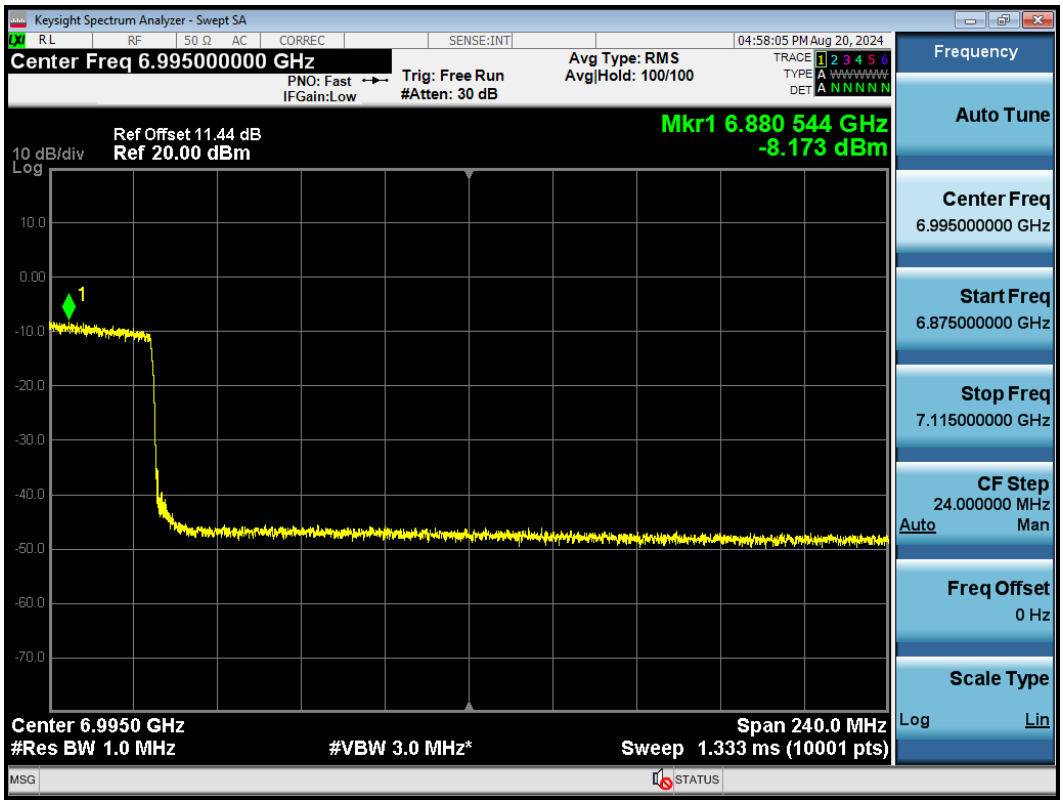


PSD 802.11ax HE80 6865MHz

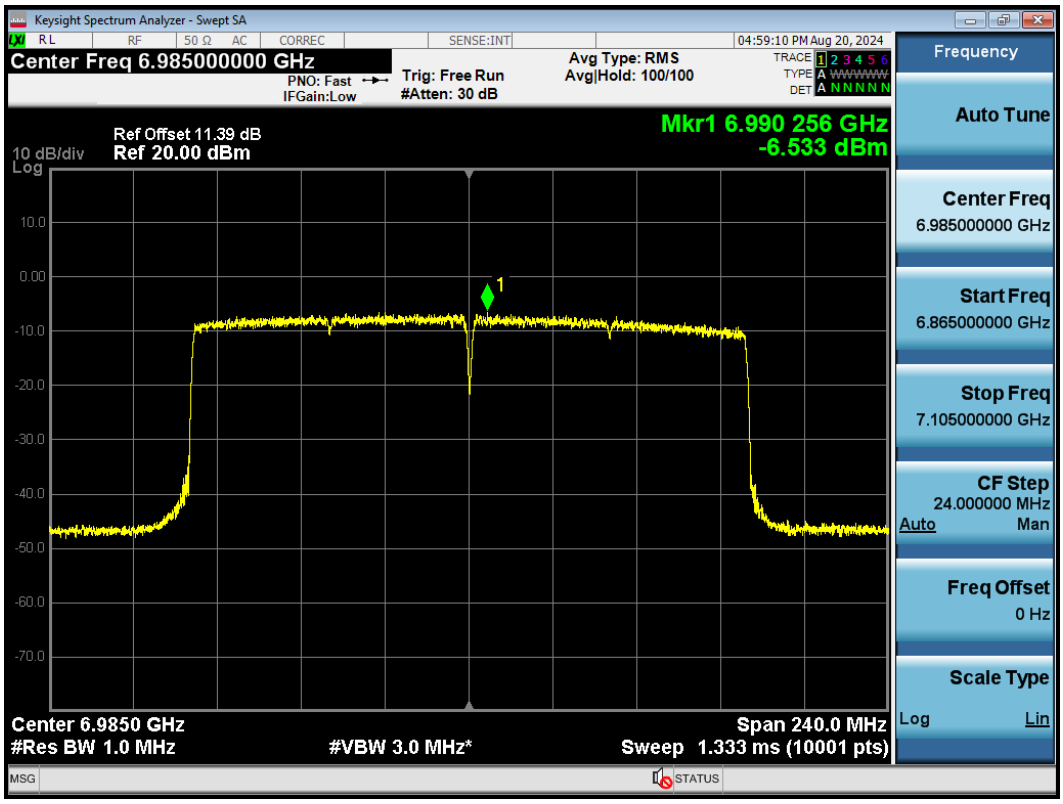


U-NII-8

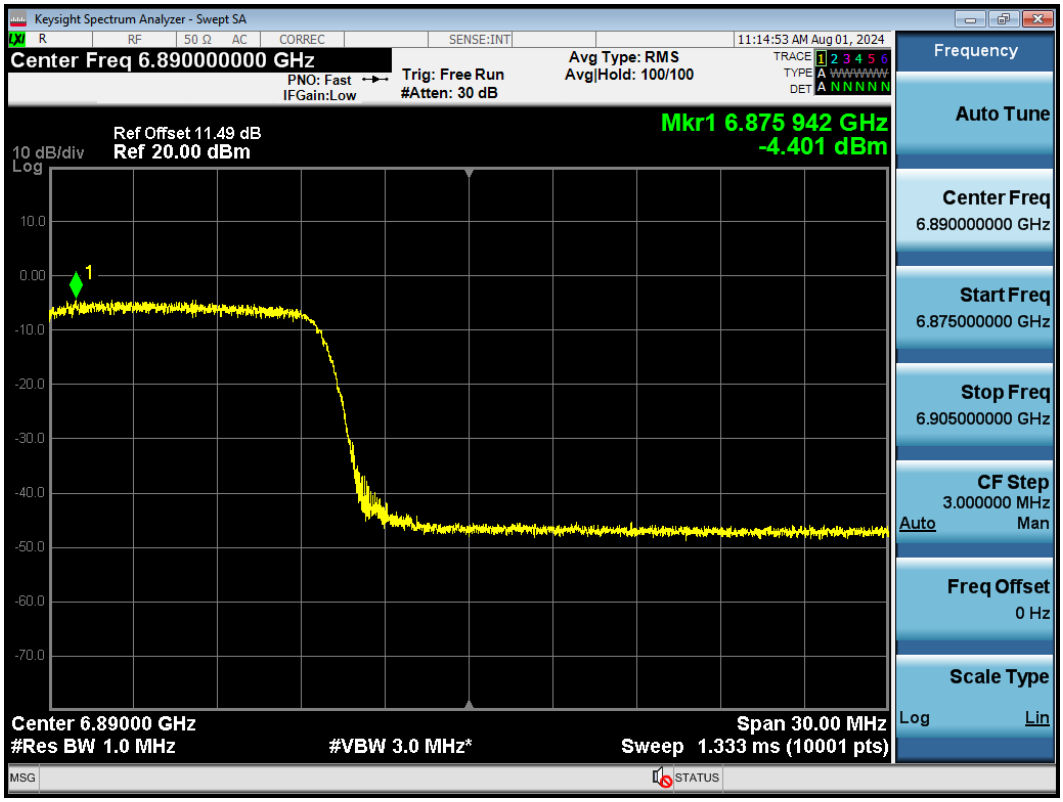
PSD 802.11ax HE160 6825MHz



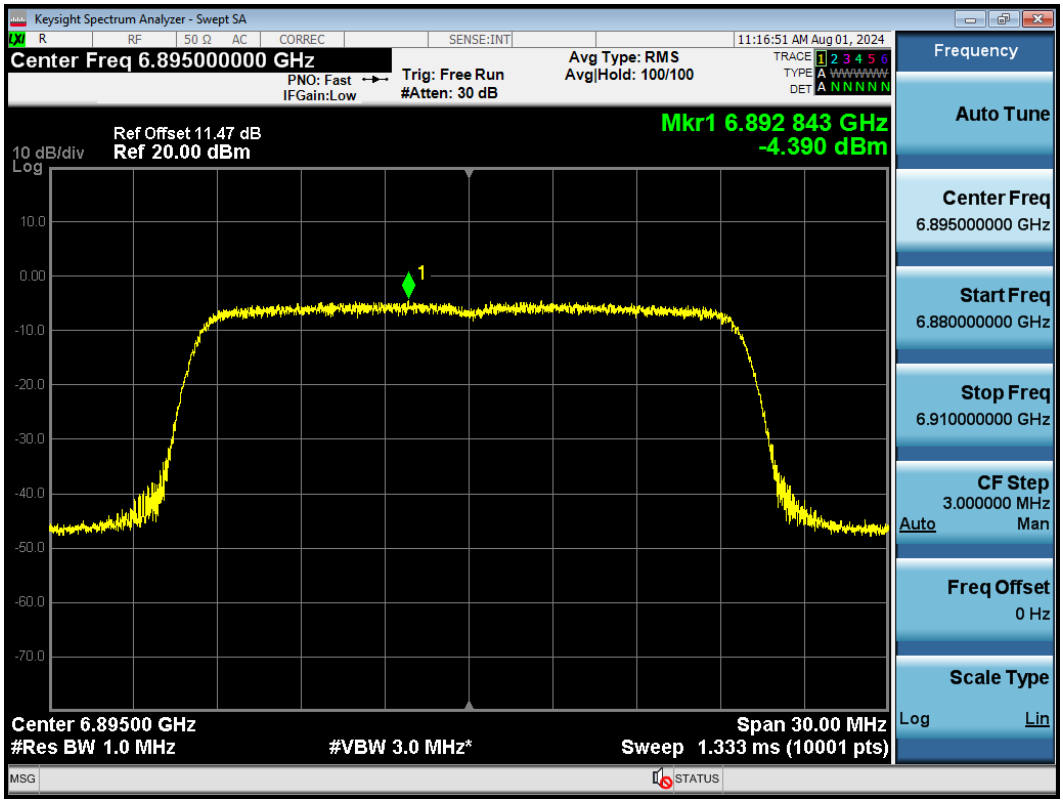
PSD 802.11ax HE160 6985MHz



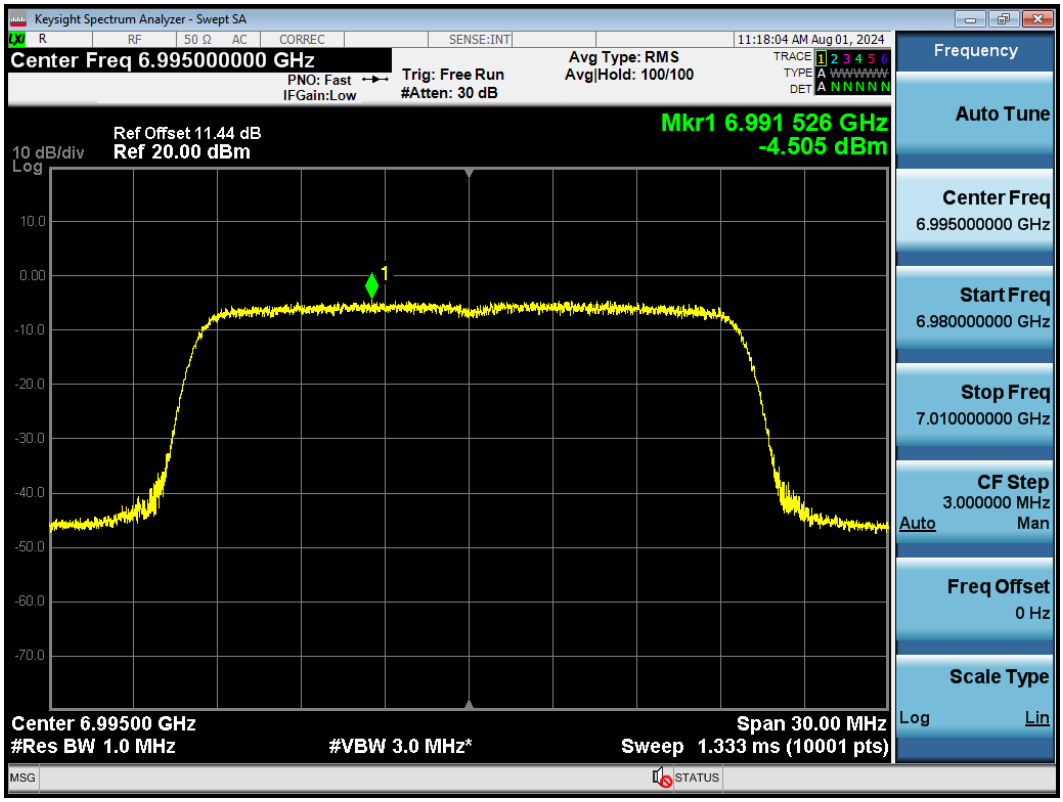
PSD 802.11ax HE20 6875MHz



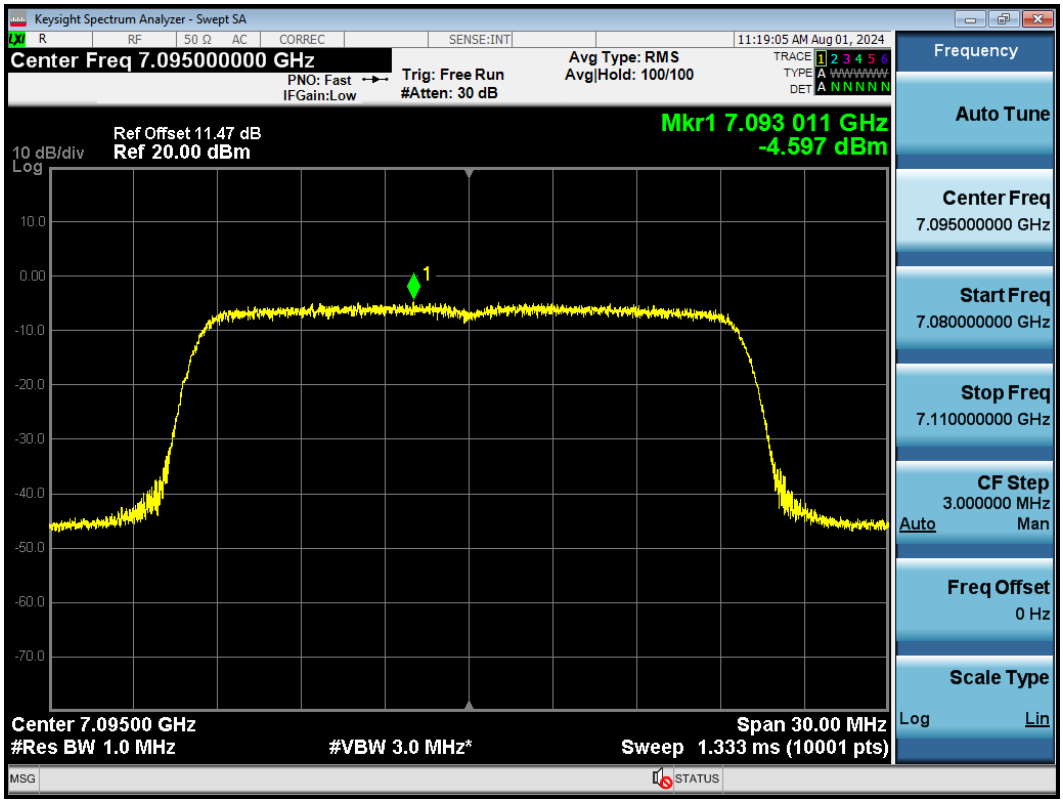
PSD 802.11ax HE20 6895MHz



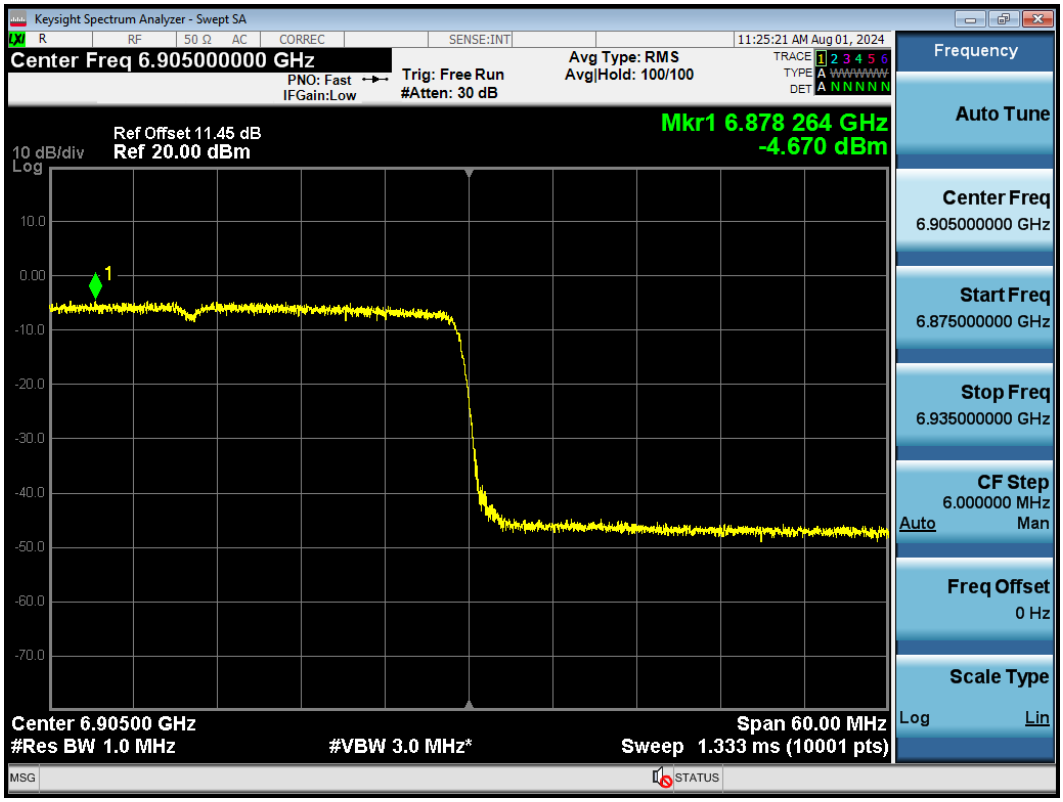
PSD 802.11ax HE20 6995MHz



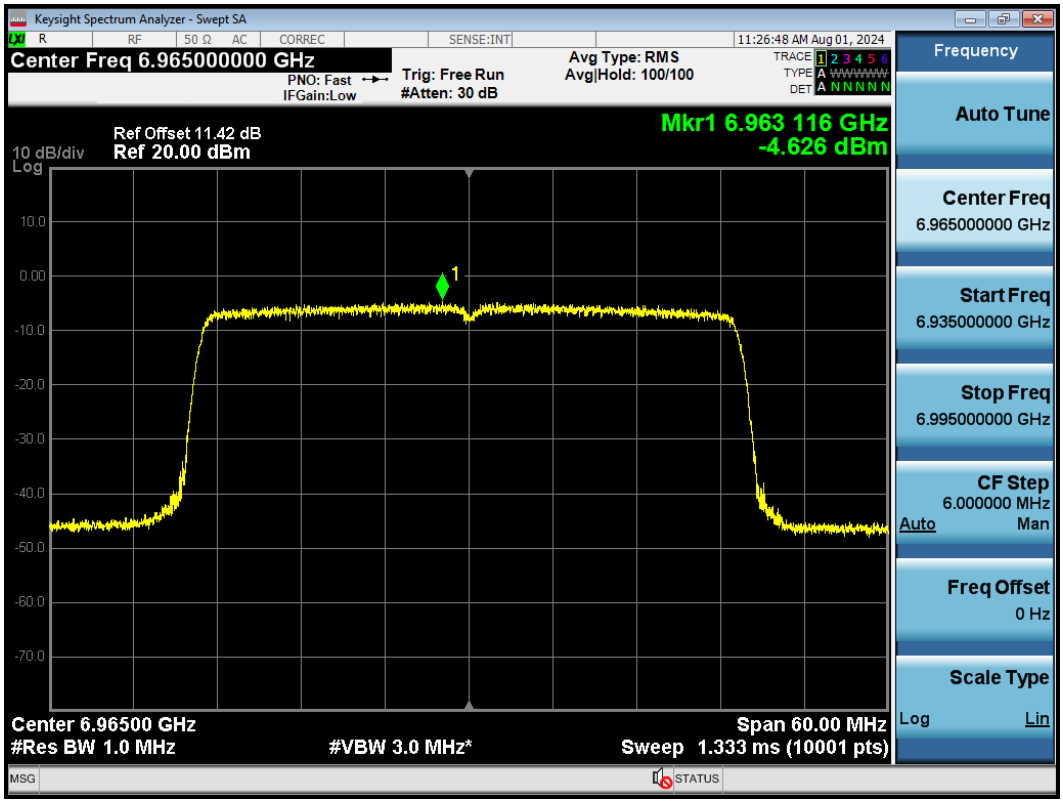
PSD 802.11ax HE20 7095MHz



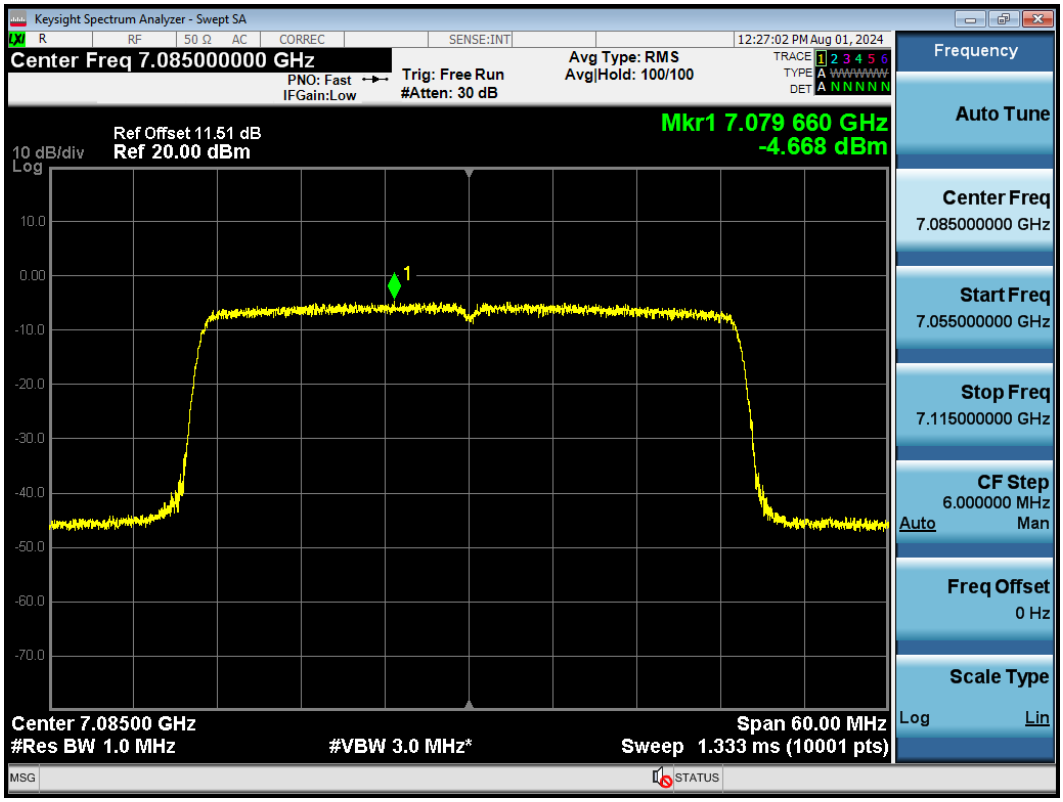
PSD 802.11ax HE40 6885MHz



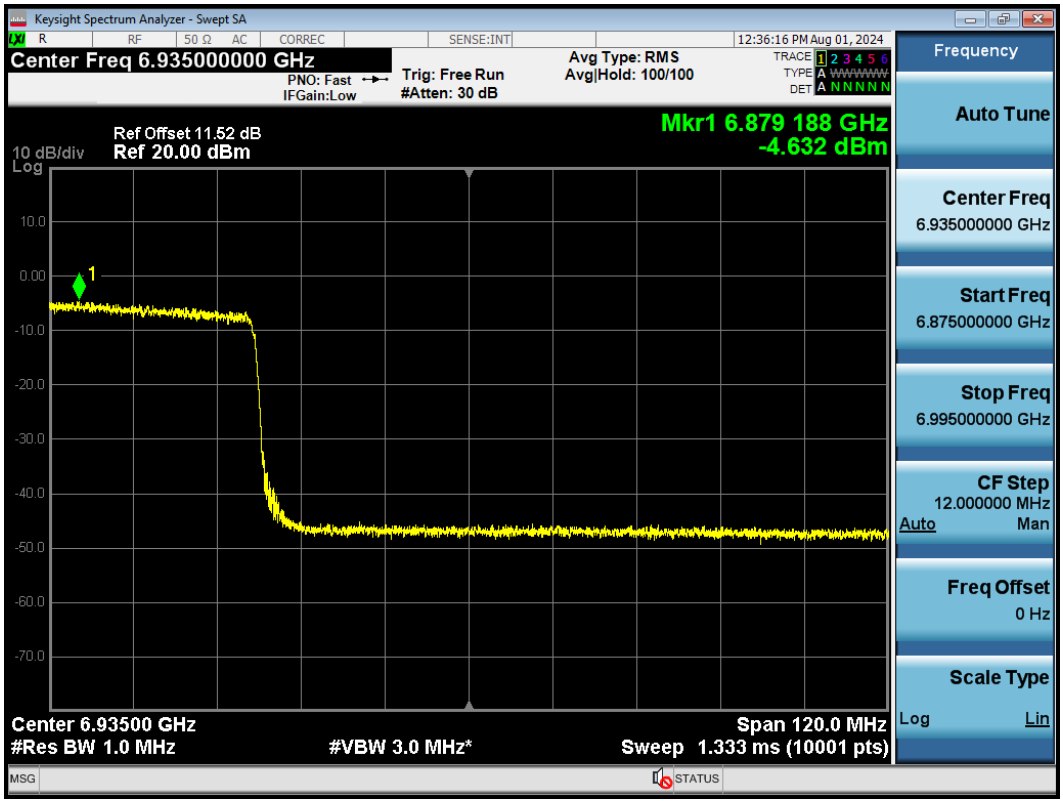
PSD 802.11ax HE40 6965MHz



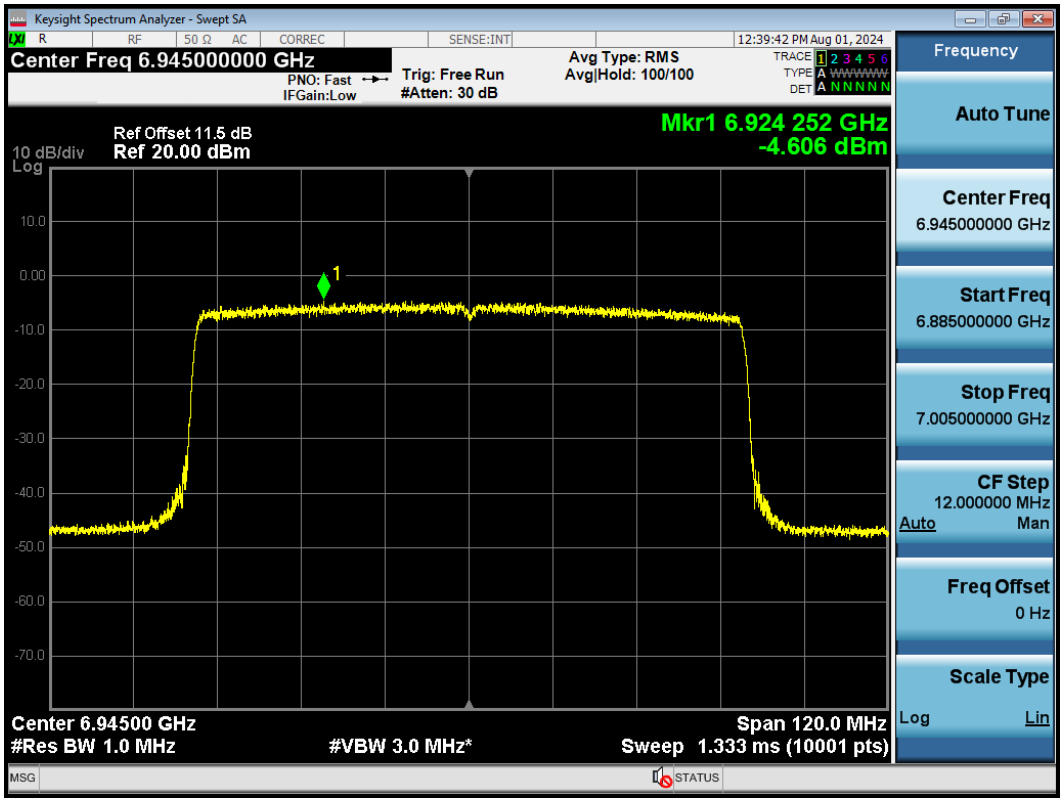
PSD 802.11ax HE40 7085MHz



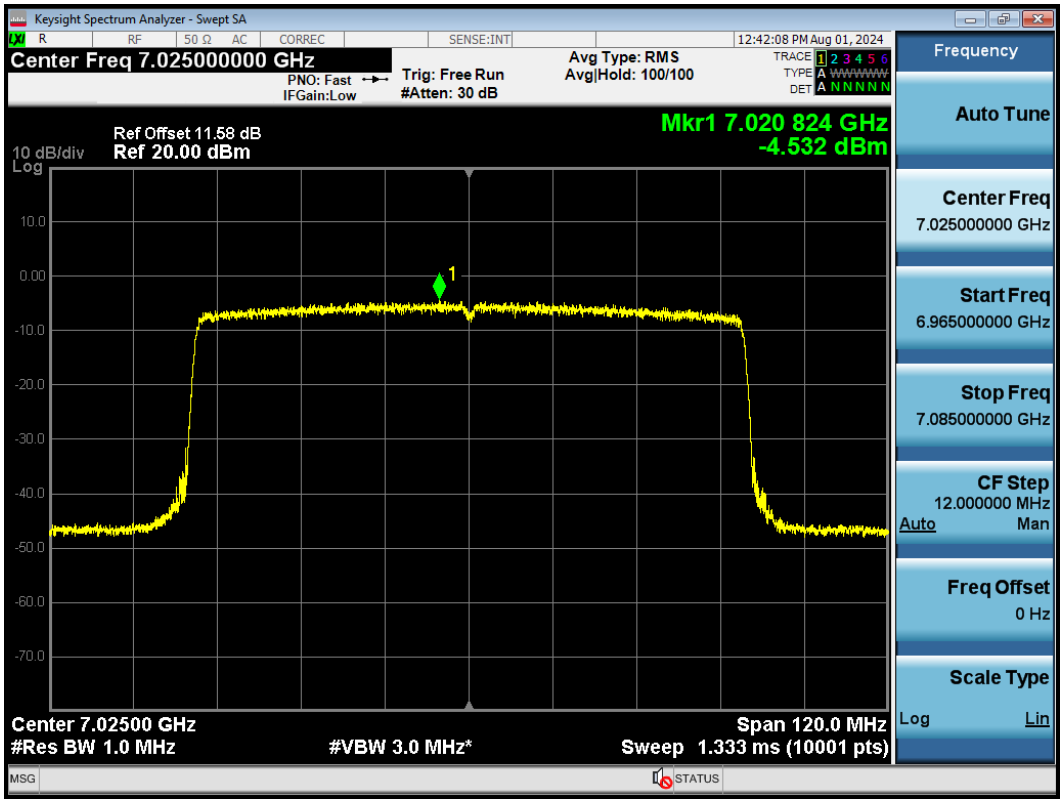
PSD 802.11ax HE80 6865MHz



PSD 802.11ax HE80 6945MHz



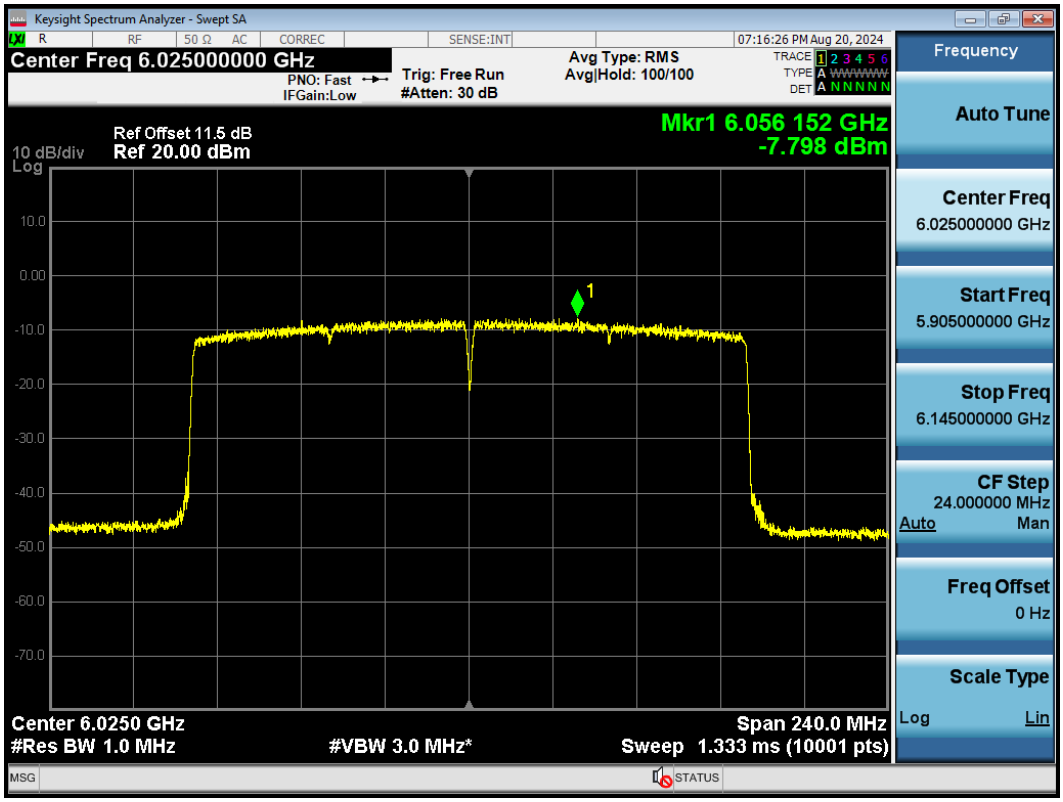
PSD 802.11ax HE80 7025MHz



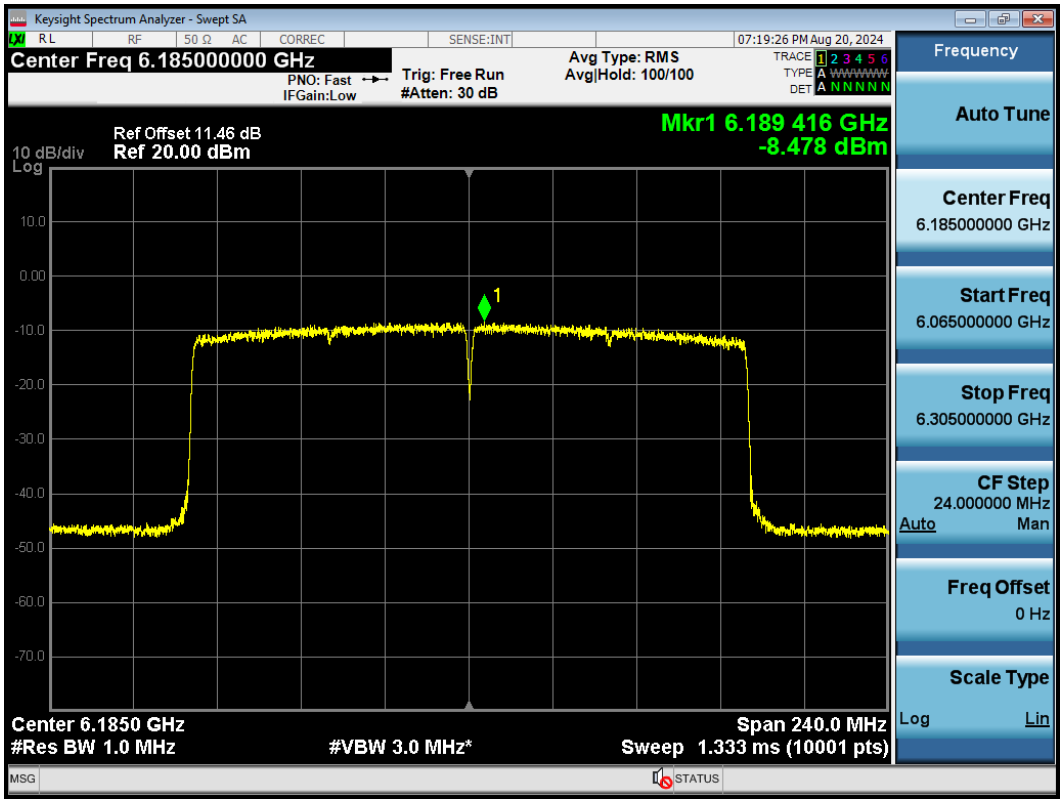
SISO Antenna2

U-NII-5

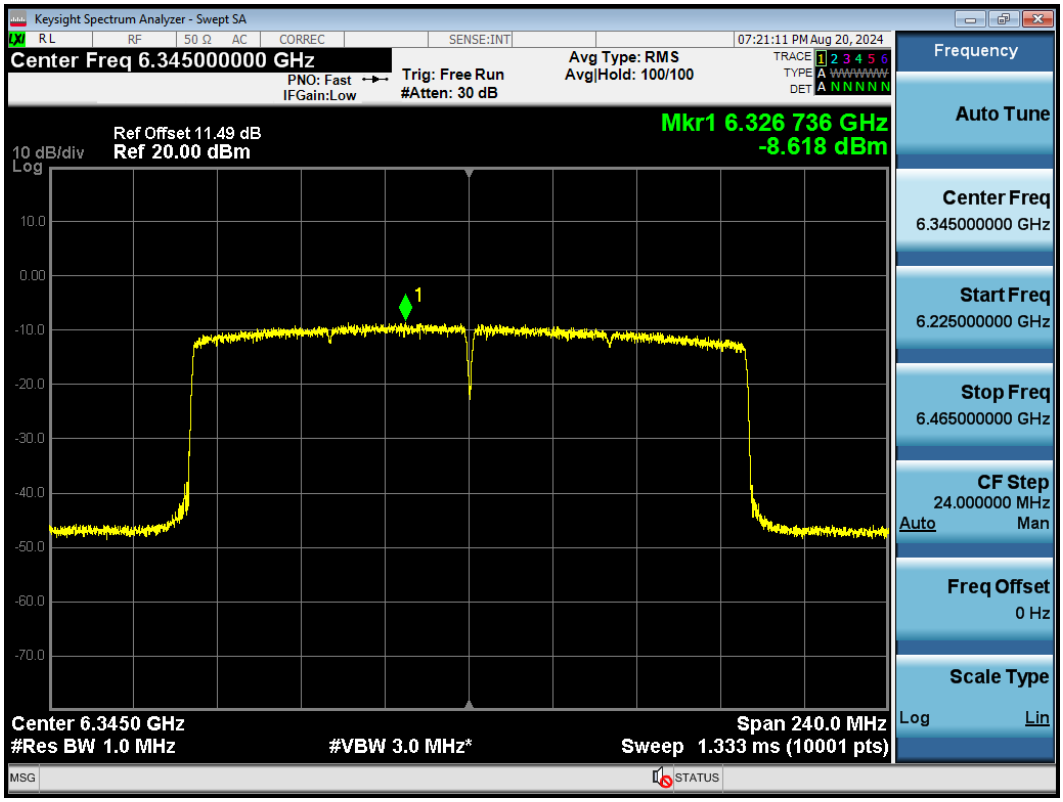
PSD 802.11ax HE160 6025MHz



PSD 802.11ax HE160 6185MHz



PSD 802.11ax HE160 6345MHz



PSD 802.11ax HE20 5955MHz