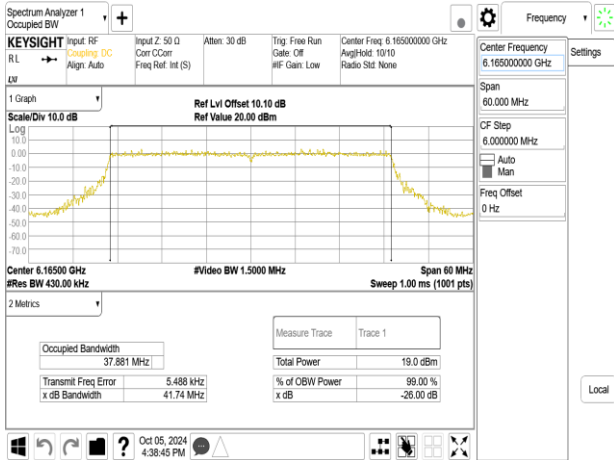
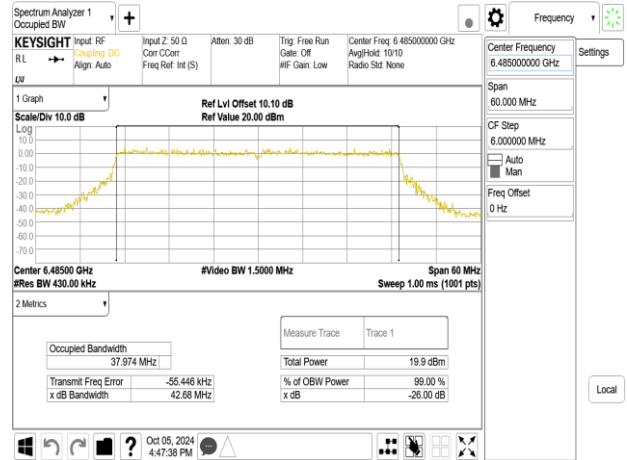


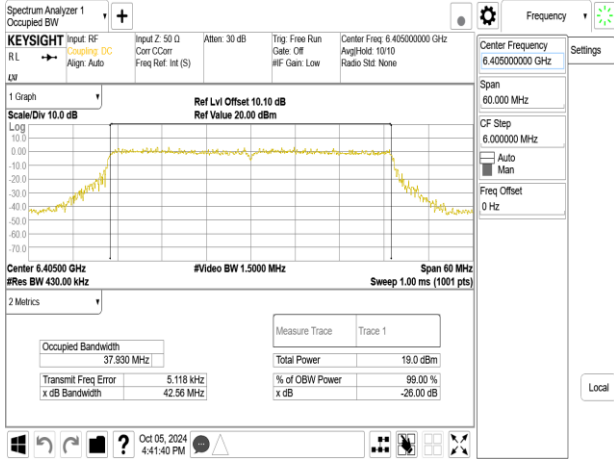
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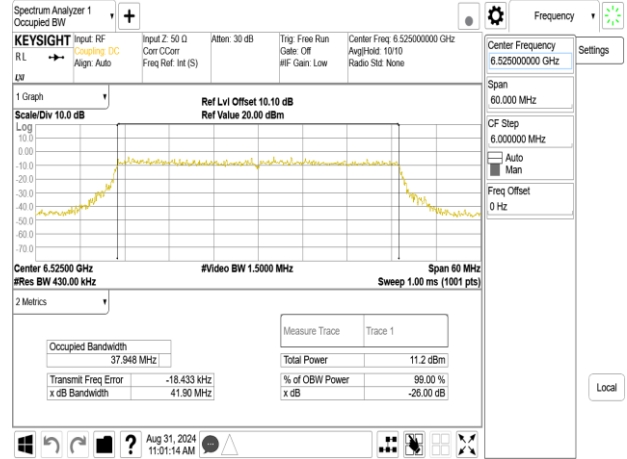
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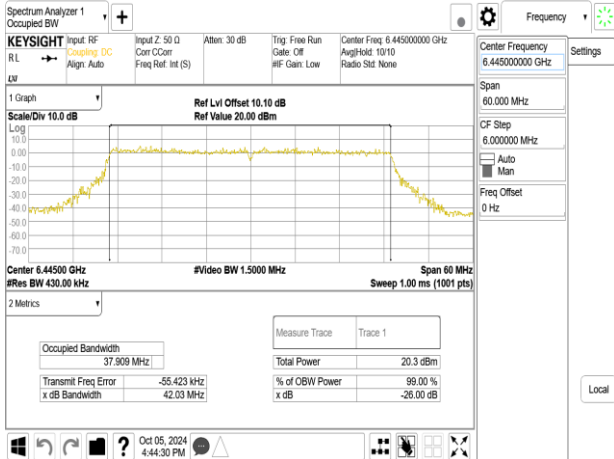
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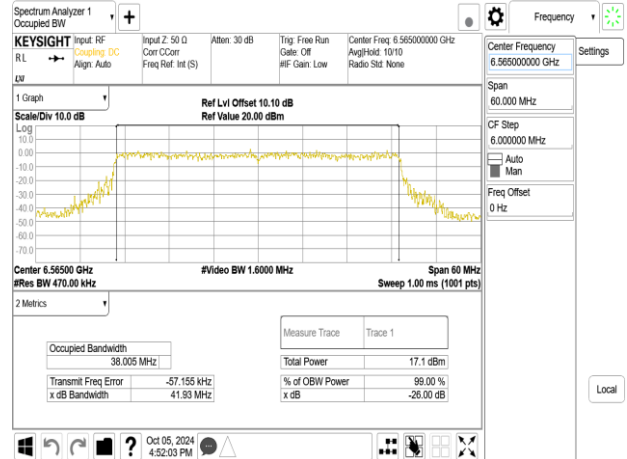
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802.11be\_40MHz\_Chain1\_6445MHz



802.11be\_40MHz\_Chain1\_6565MHz

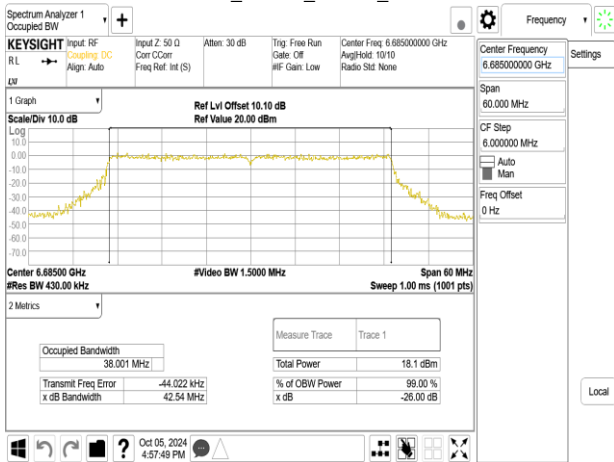


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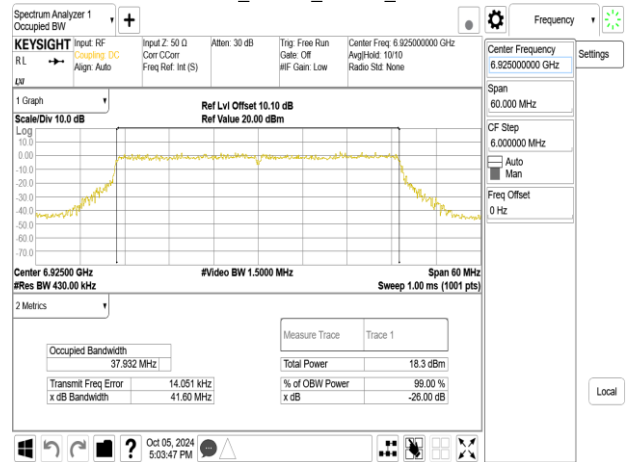
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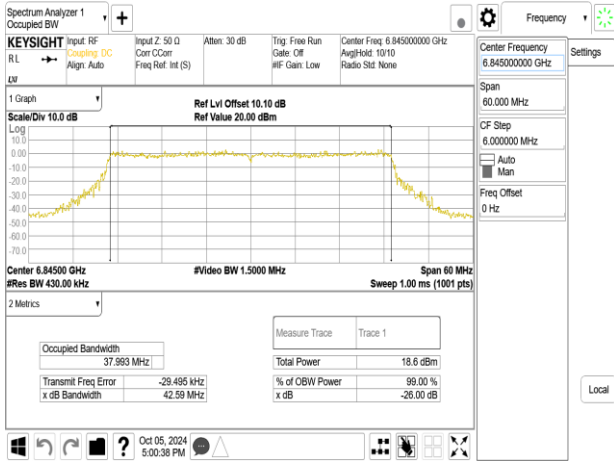
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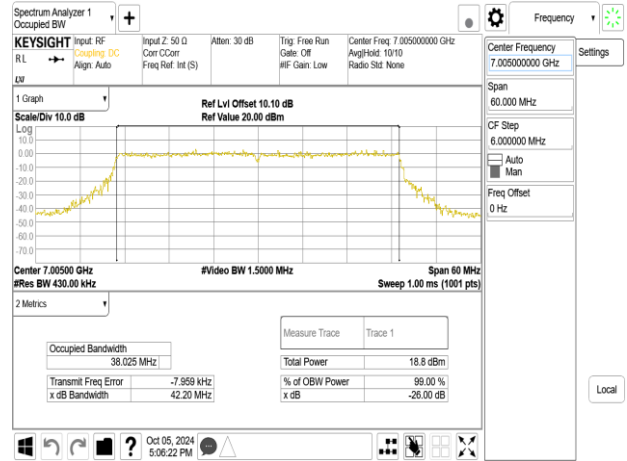
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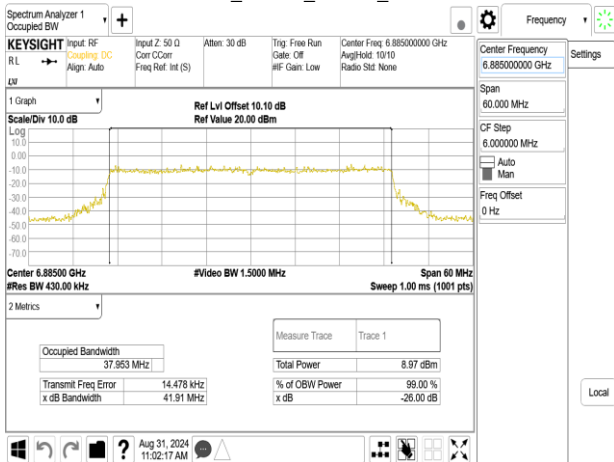
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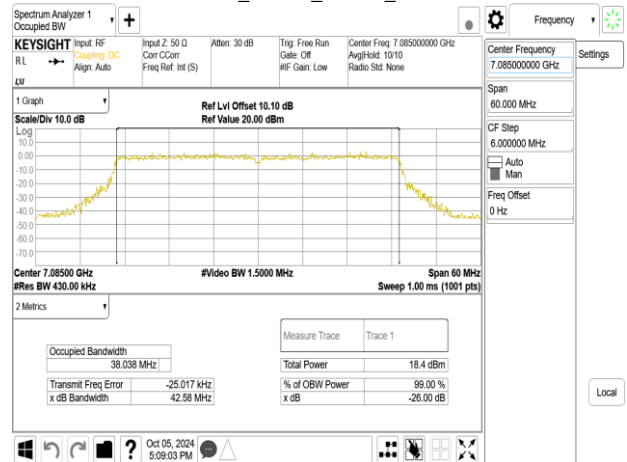
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802.11be\_40MHz\_Chain1\_6885MHz



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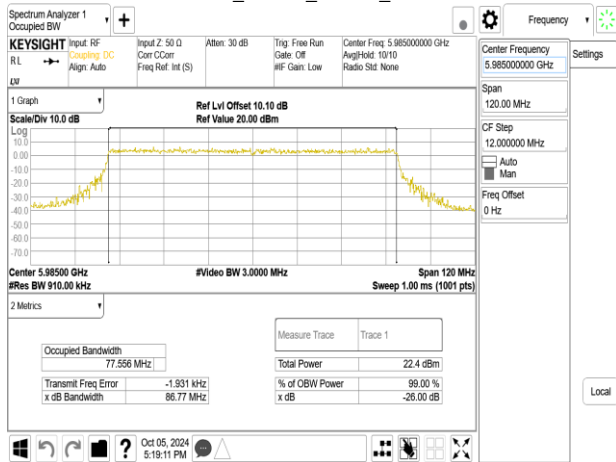


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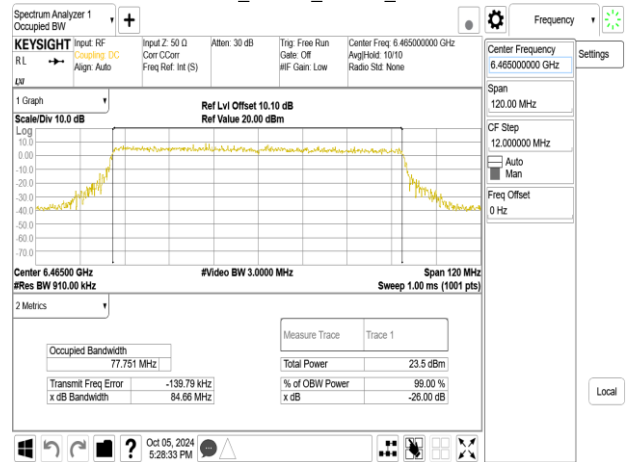
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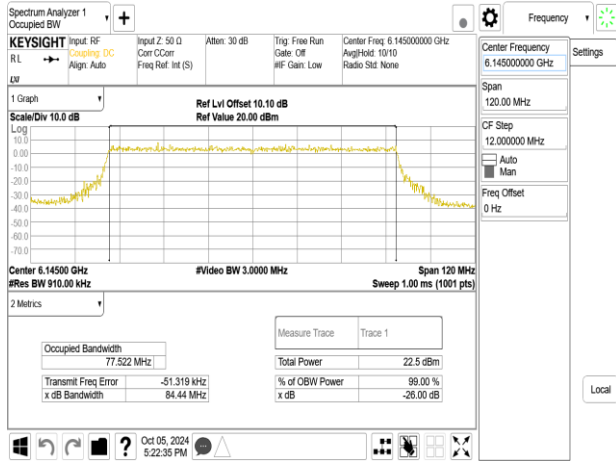
802.11be\_80MHz\_Chain0\_5985MHz



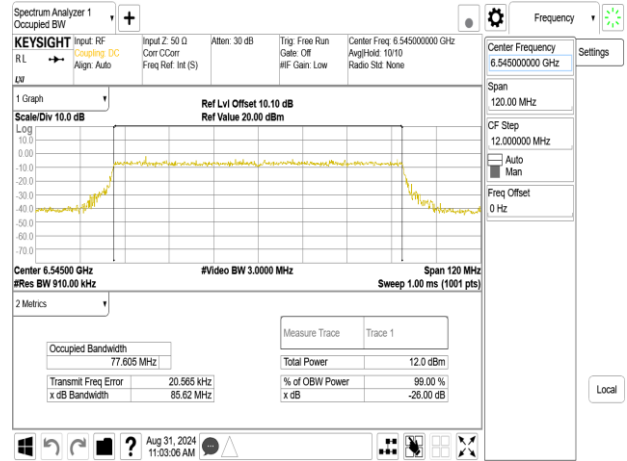
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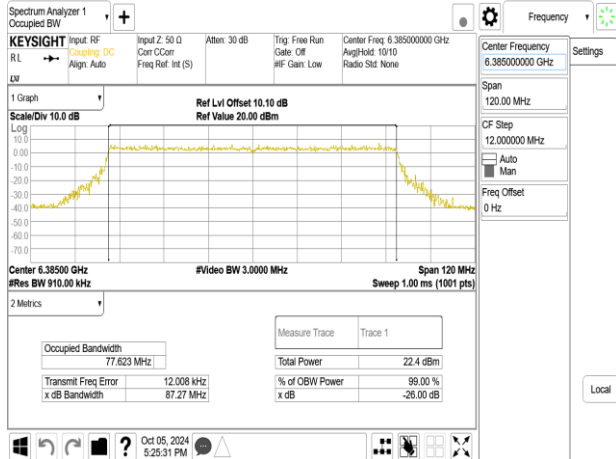
802.11be\_80MHz\_Chain0\_6145MHz



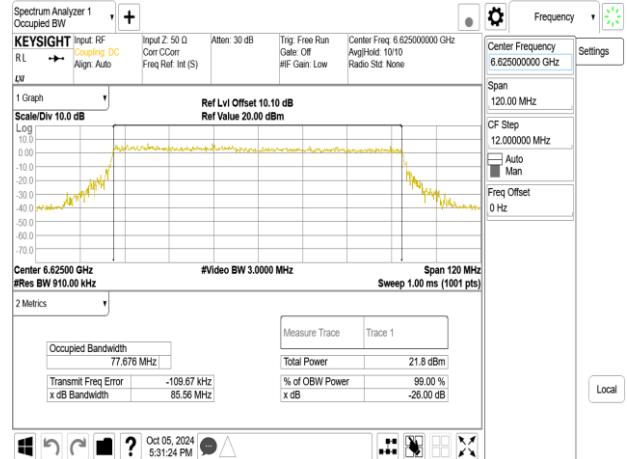
802.11be\_80MHz\_Chain0\_6545MHz



802.11be\_80MHz\_Chain0\_6385MHz



802.11be\_80MHz\_Chain0\_6625MHz

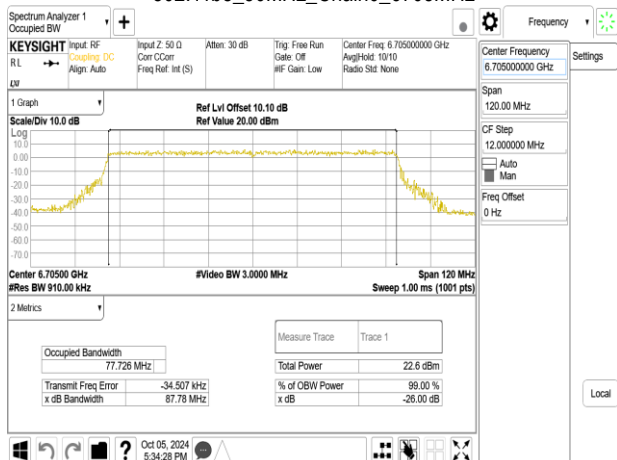


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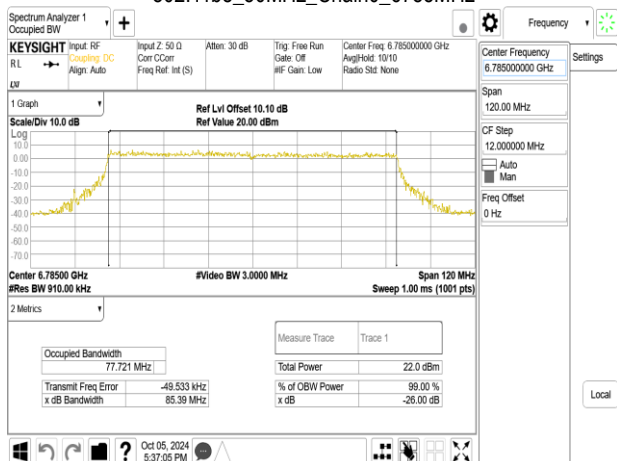
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802.11be\_80MHz\_Chain0\_6945MHz



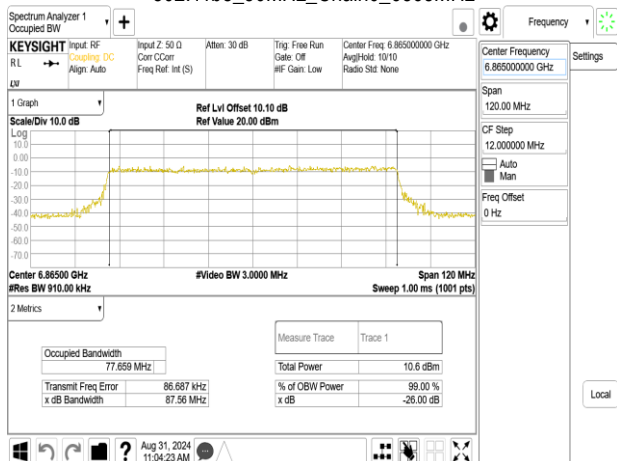
802.11be\_80MHz\_Chain0\_6785MHz



802.11be\_80MHz\_Chain0\_7025MHz



802.11be\_80MHz\_Chain0\_6865MHz



802.11be\_80MHz\_Chain1\_5985MHz

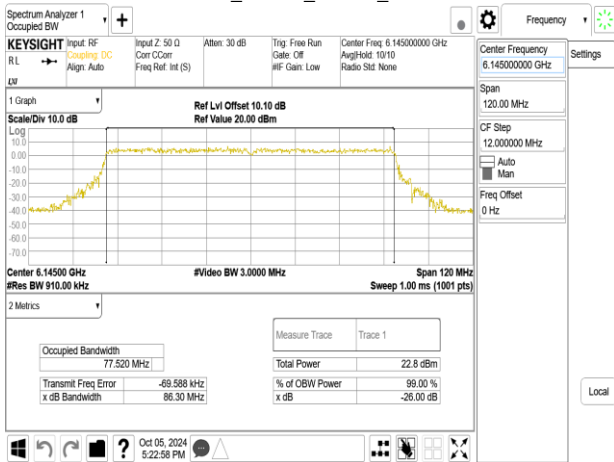


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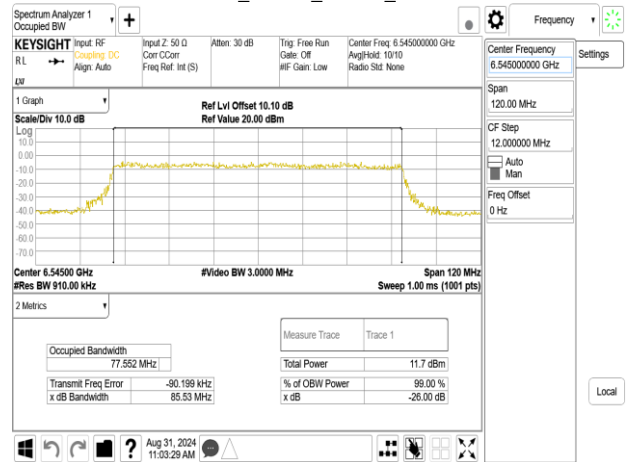
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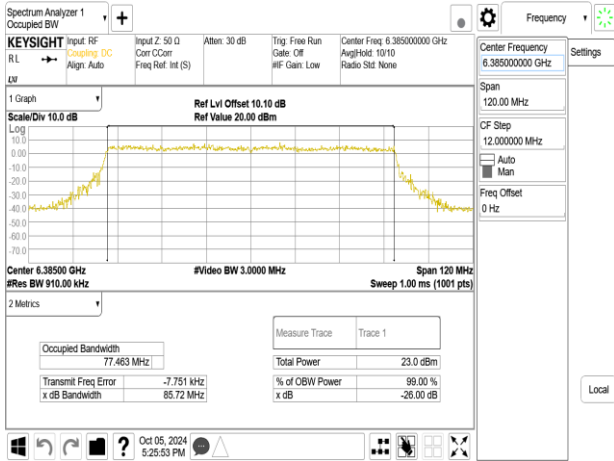
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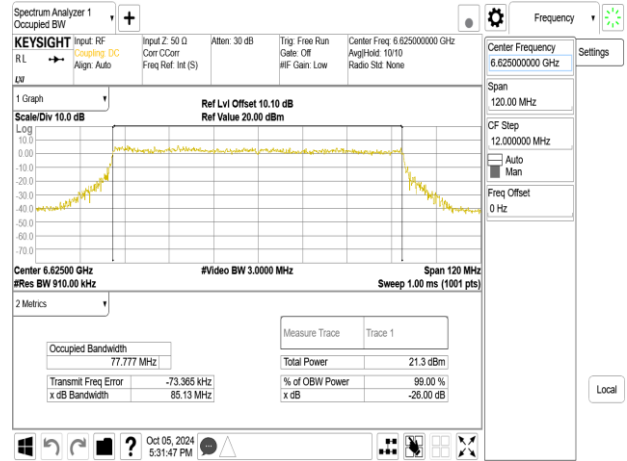
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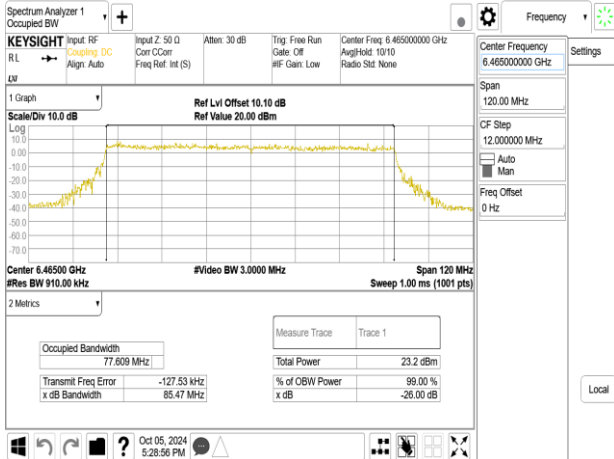
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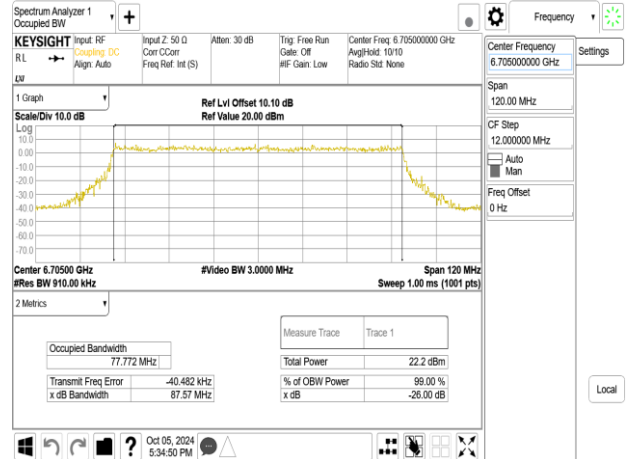
802.11be\_80MHz\_Chain1\_6625MHz



802.11be\_80MHz\_Chain1\_6465MHz



802.11be\_80MHz\_Chain1\_6705MHz



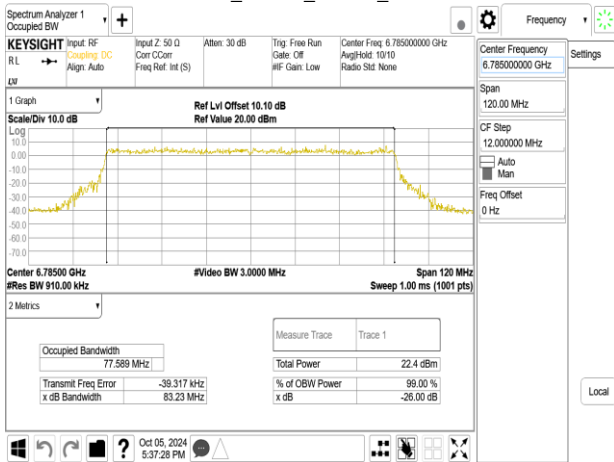
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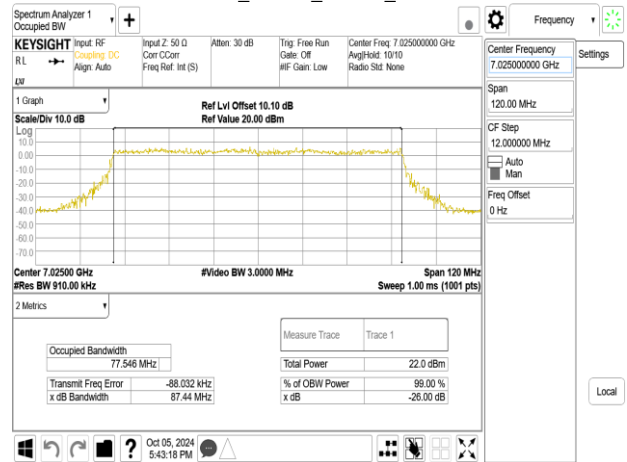
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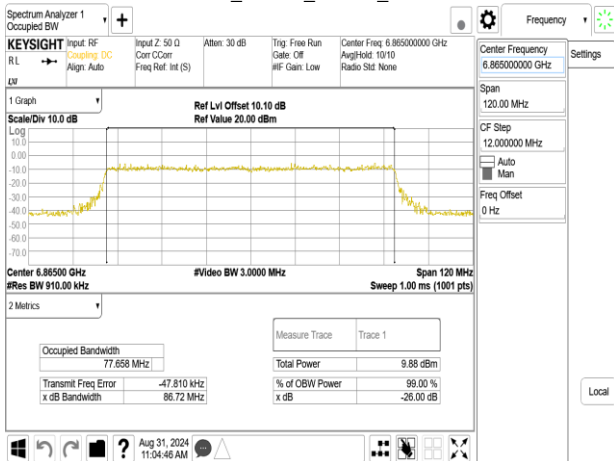
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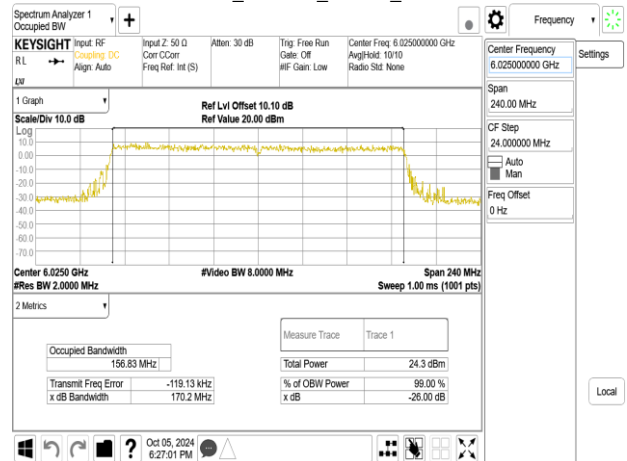
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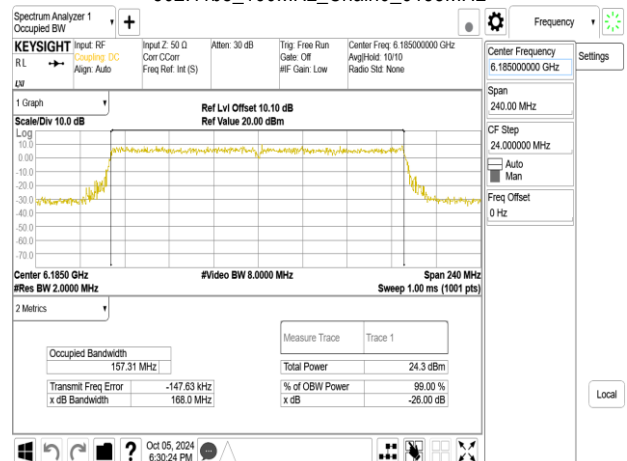
802.11be\_160MHz\_Chain0\_6025MHz



802.11be\_80MHz\_Chain1\_6945MHz



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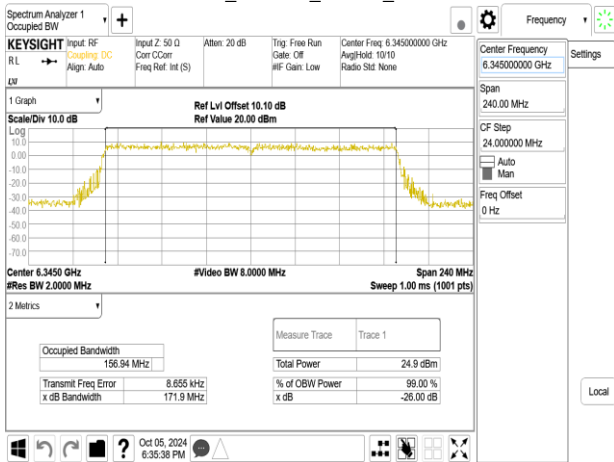


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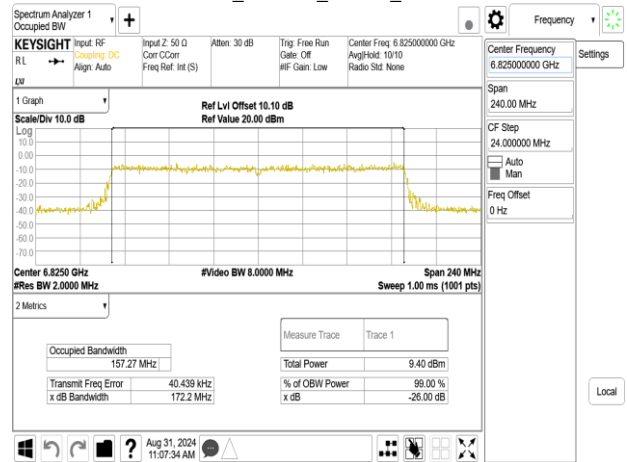
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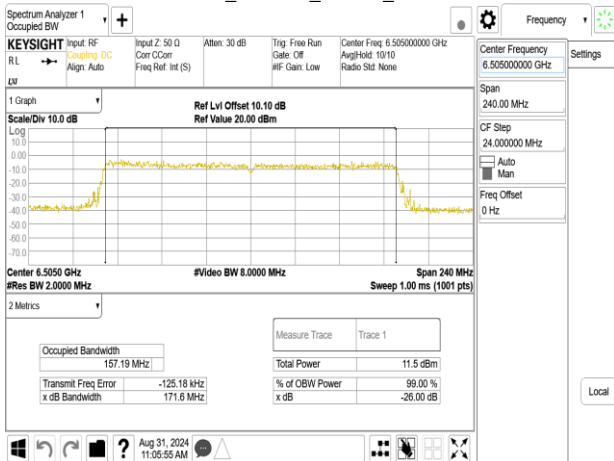
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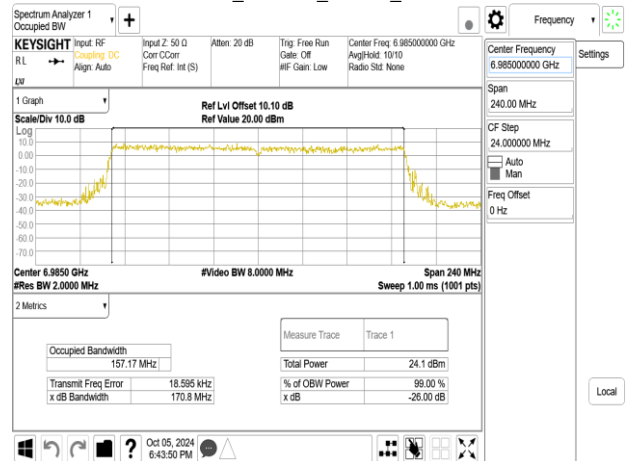
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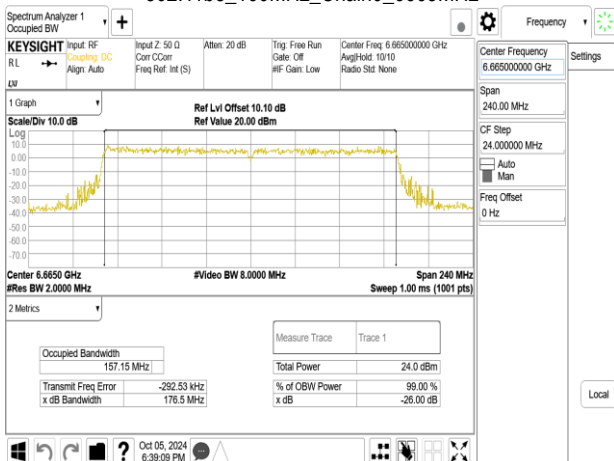
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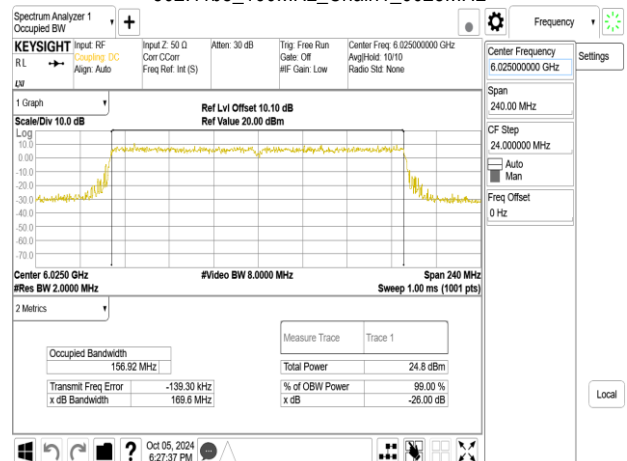
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802.11be\_160MHz\_Chain0\_6665MHz



802.11be\_160MHz\_Chain1\_6025MHz

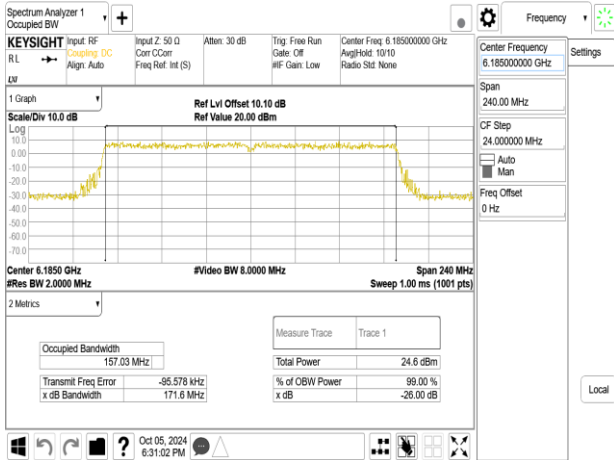


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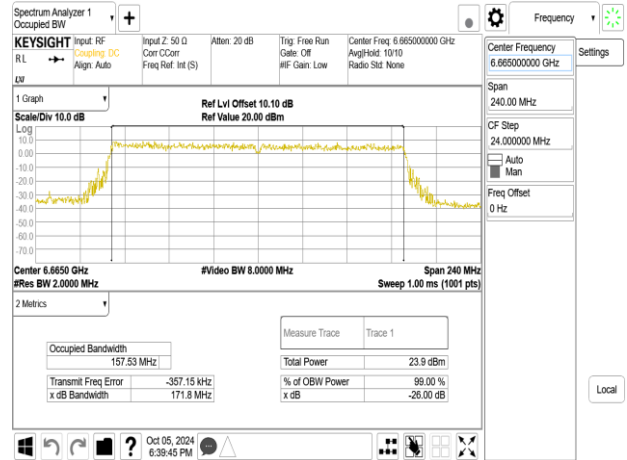
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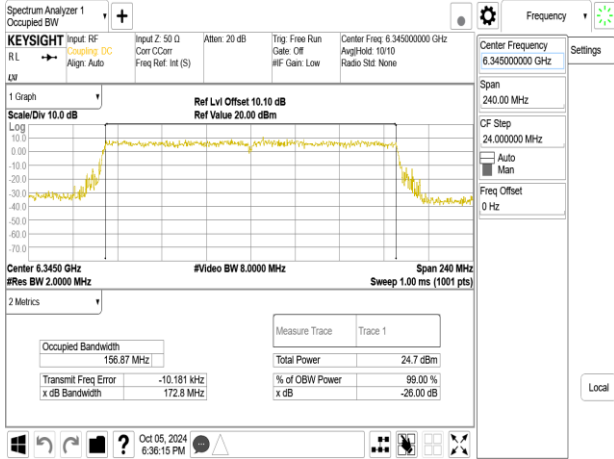
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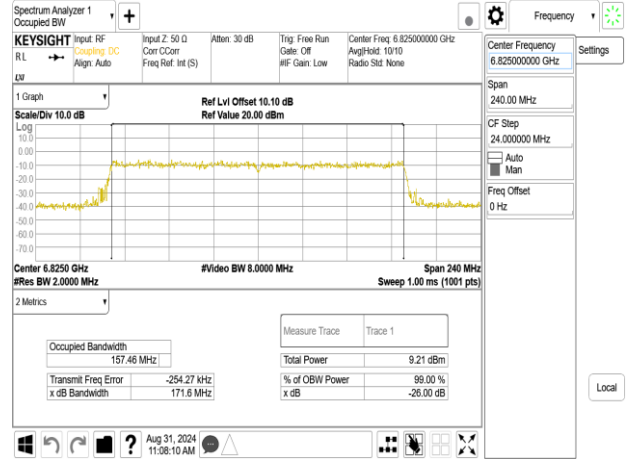
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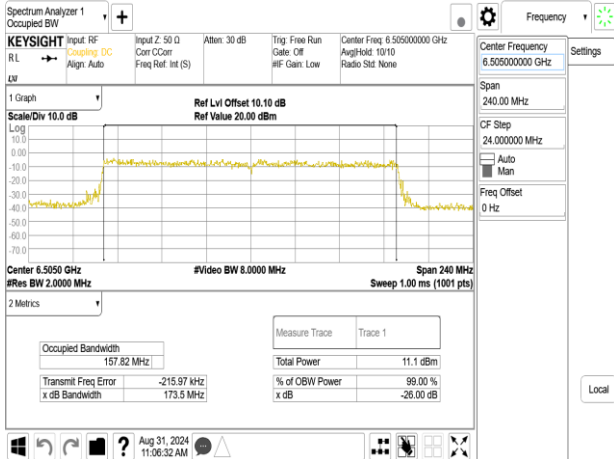
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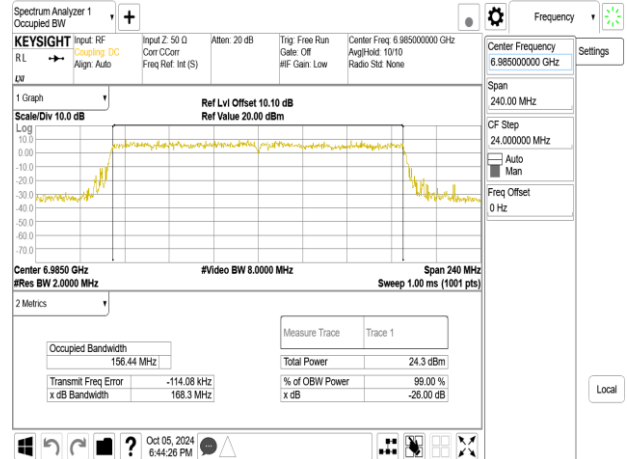
802.11be\_160MHz\_Chain1\_6825MHz



802.11be\_160MHz\_Chain1\_6505MHz



802.11be\_160MHz\_Chain1\_6985MHz



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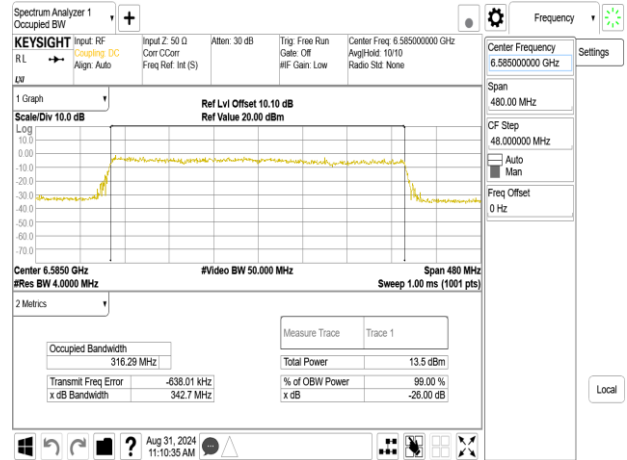
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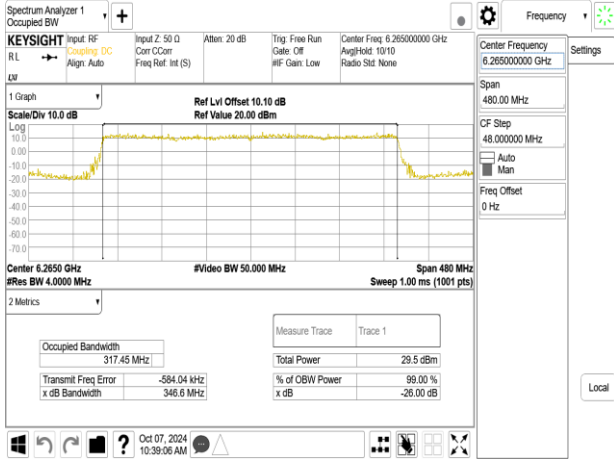
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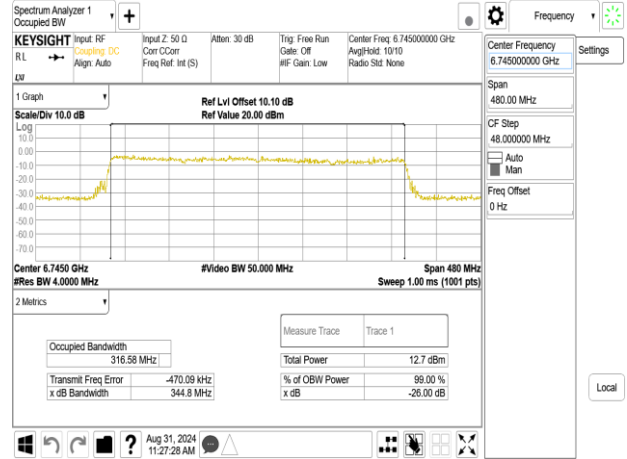
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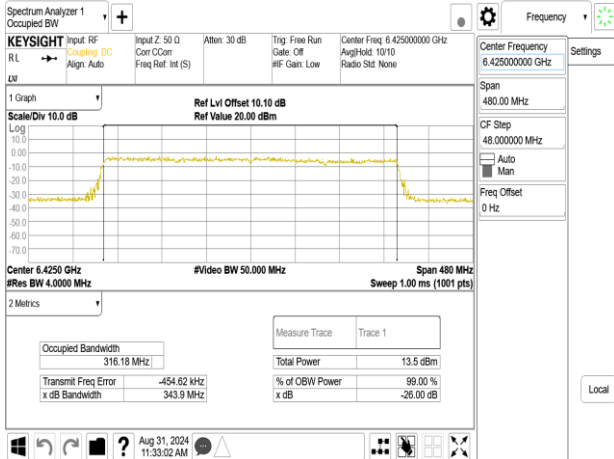
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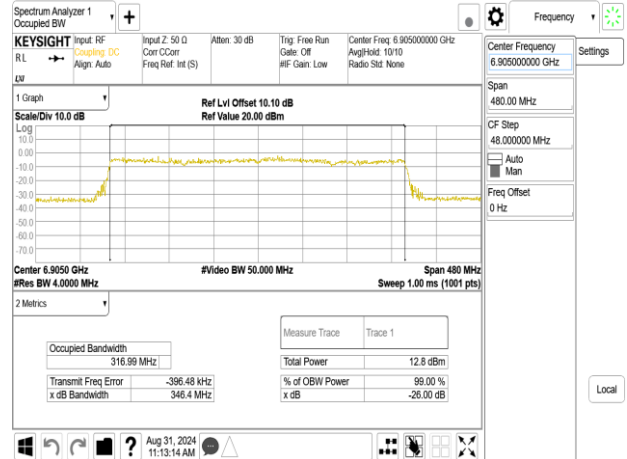
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802.11be\_320MHz\_Chain0\_6425MHz



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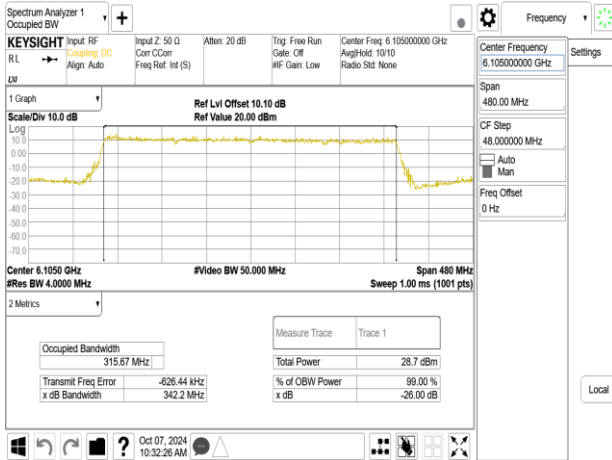


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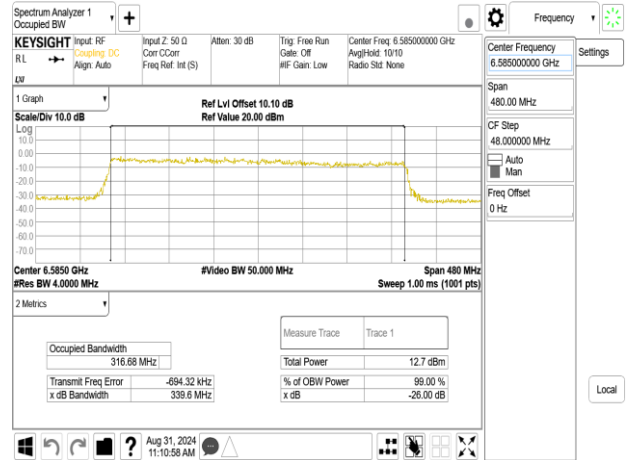
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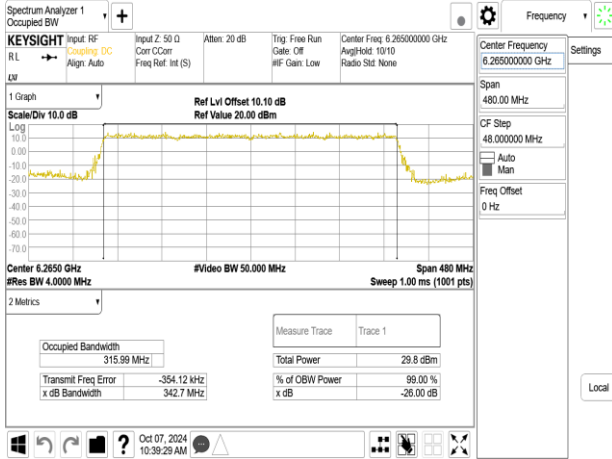
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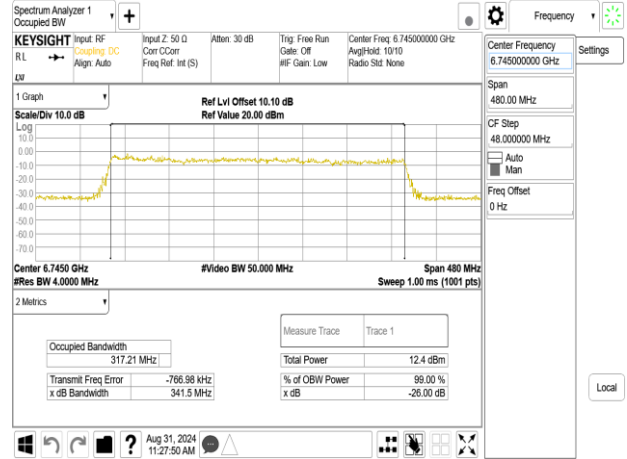
802.11be\_320MHz\_Chain1\_6585MHz



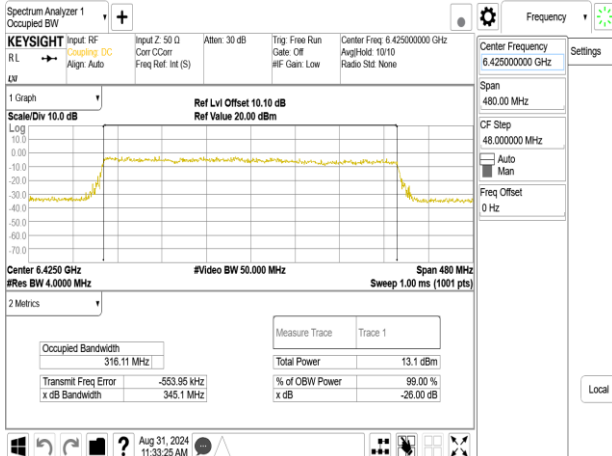
802.11be\_320MHz\_Chain1\_6265MHz



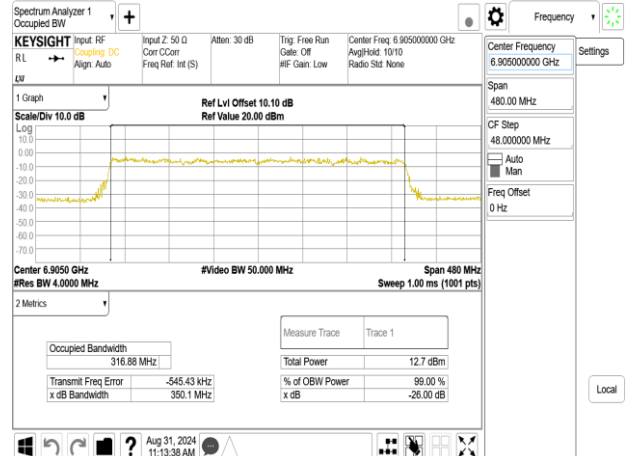
802.11be\_320MHz\_Chain1\_6745MHz



802.11be\_320MHz\_Chain1\_6425MHz



802.11be\_320MHz\_Chain1\_6905MHz



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## 9 MAXIMUM OUTPUT POWER

### 9.1 Standard Applicable

#### 9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 9.1.2 Output Power

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.  
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (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 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.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

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EUT CATEGORY		Equipment Class	§15.407(a)
	Very low power devices	VLP	EIRP < 14dBm
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
	indoor Access Point	6ID	EIRP < 30dBm
	Subordinate Device	6PP	EIRP < 30dBm
	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
V	Indoor Client	6XD	EIRP < 24dBm
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized trans-mit power
	Dual Client	6CD	Compliance both indoor client and standard client line it

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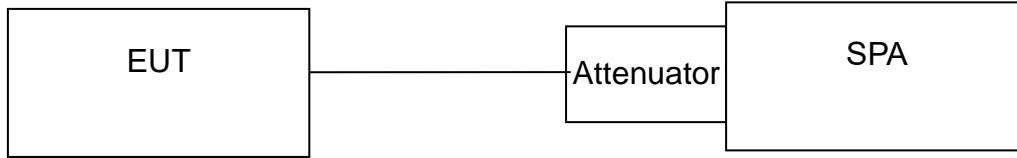
f (886-2) 2298-0488

www.sgs.com.tw

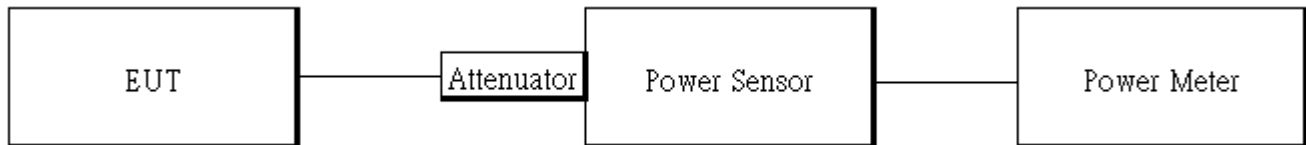
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## 9.2 Test Setup

### 9.2.1 Duty Cycle



### 9.2.2 Output Power



**Note:**

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

## 9.3 Measurement Procedure

### 9.3.1 Duty Cycle

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

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### 9.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss +  $10 \log (N)$ , where N is number of transmitting antenna, cable loss is specified below.

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## 9.4 Duty Cycle Measurement Result

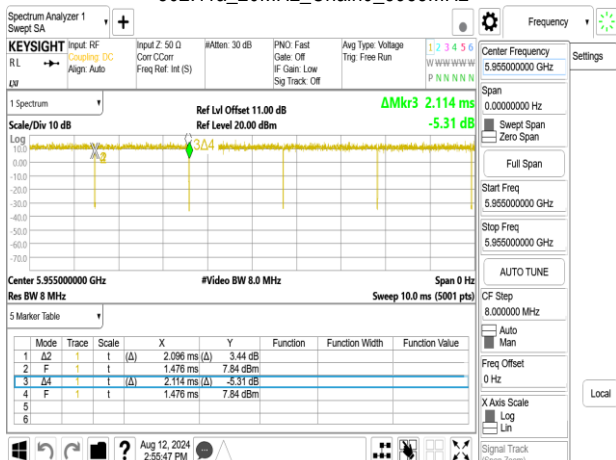
Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a		99.15	0.04	0.48	0.01
802.11n_20		99.67	0.01	0.18	0.01
802.11ac_20		99.67	0.01	0.18	0.01
802.11n_40		99.67	0.01	0.18	0.01
802.11ac_40		99.67	0.01	0.18	0.01
802.11ac_80		99.67	0.01	0.18	0.01
802.11ac_160		99.67	0.01	0.18	0.01
Mode	RU Config	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	99.63	0.02	0.18	0.01
802.11ax_40	Full	99.71	0.01	0.18	0.01
802.11ax_80	Full	99.67	0.01	0.18	0.01
802.11ax_160	Full	99.67	0.01	0.18	0.01
802.11be_20	Full	99.67	0.01	0.18	0.01
	26 RU	99.03	0.04	0.20	0.01
	52 RU	99.61	0.02	0.20	0.01
	106 RU	99.35	0.03	0.33	0.01
	52+26 MRU	99.56	0.02	0.22	0.01
	106+26 MRU	99.54	0.02	0.23	0.01
802.11be_40	Full	99.67	0.01	0.18	0.01
802.11be_80	Full	99.67	0.01	0.18	0.01
	SU_Punct20_Mid2	99.63	0.02	0.18	0.01
	RU484+242_Punc20	98.23	0.08	0.90	0.01
802.11be_160	Full	99.67	0.01	0.18	0.01
	996/67	99.09	0.04	0.61	0.01
	SU_Punct20_Mid3	99.63	0.02	0.18	0.01
	SU_Punct40_Mid2	99.63	0.02	0.18	0.01
	RU996+484_Punc40	97.89	0.09	1.08	2.00
	996+484 MRU4	98.41	0.07	1.08	0.01
802.11be_320	Full	99.71	0.01	0.18	0.01
	RU996x2+484_Punc40	96.67	0.15	1.72	2.00
	2*996+484 MRU6	97.48	0.11	1.72	2.00
	3*996 MRU4	97.03	0.13	2.04	3.00
	3*996+484 MRU8	95.56	0.20	2.33	3.00

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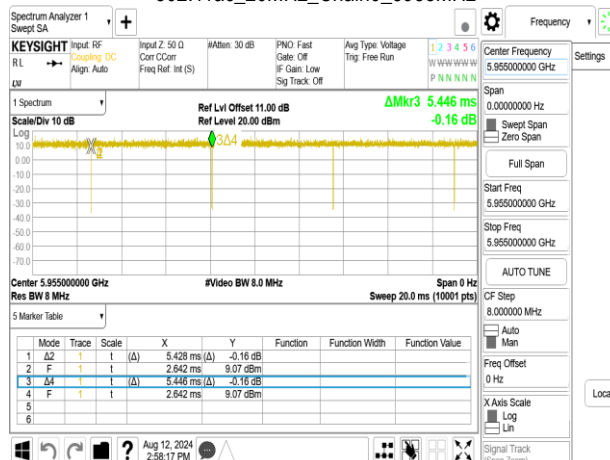
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802.11a\_20MHz\_Chain0\_5955MHz



802.11ac\_20MHz\_Chain0\_5955MHz



802.11n\_20MHz\_Chain0\_5955MHz



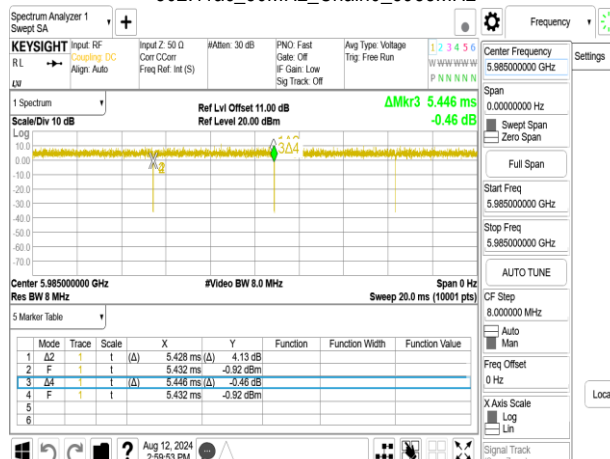
802.11ac\_40MHz\_Chain0\_5965MHz



802.11n\_40MHz\_Chain0\_5965MHz



802.11ac\_80MHz\_Chain0\_5985MHz



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802.11ac\_160MHz\_Chain0\_6025MHz



802.11ax\_80MHz\_Chain0\_5985MHz



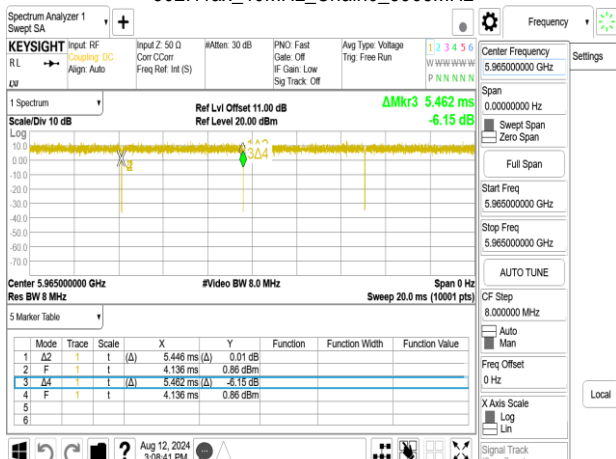
802.11ax\_20MHz\_Chain0\_5955MHz



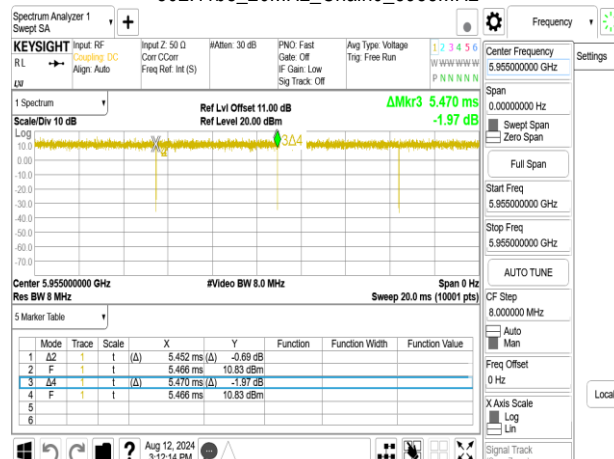
802.11ax\_160MHz\_Chain0\_6025MHz



802.11ax\_40MHz\_Chain0\_5965MHz



802.11be\_20MHz\_Chain0\_5955MHz



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