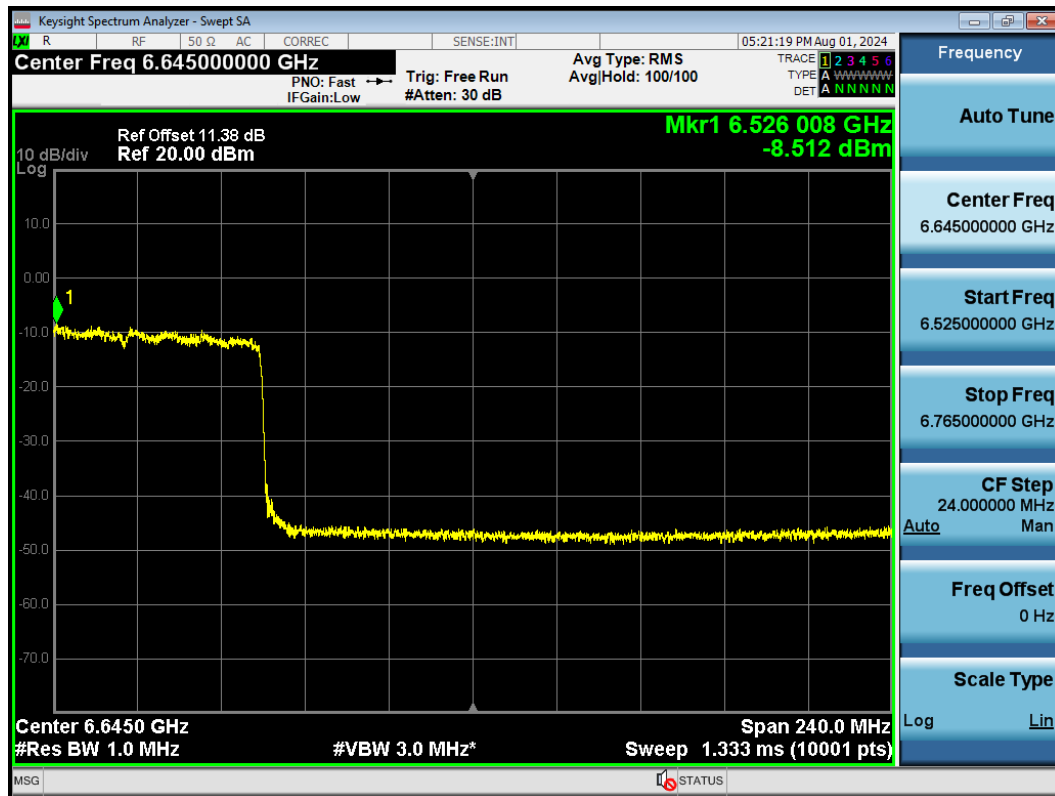


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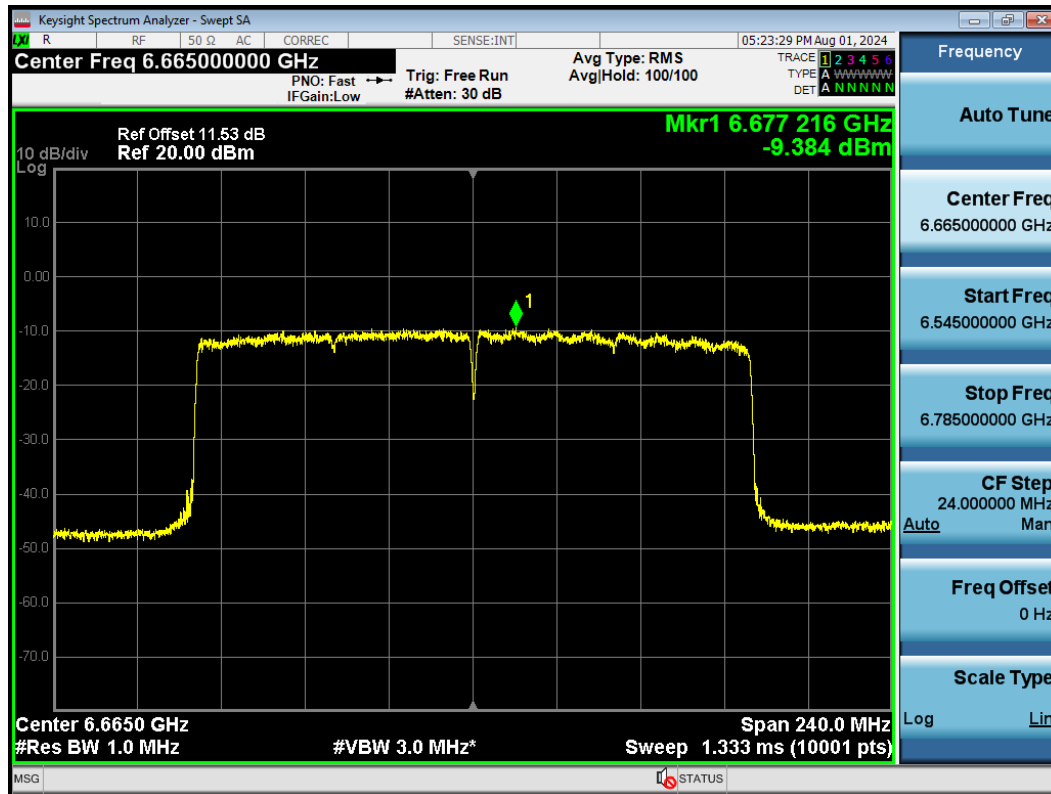
PSD 802.11ax HE160 6505MHz Ant1



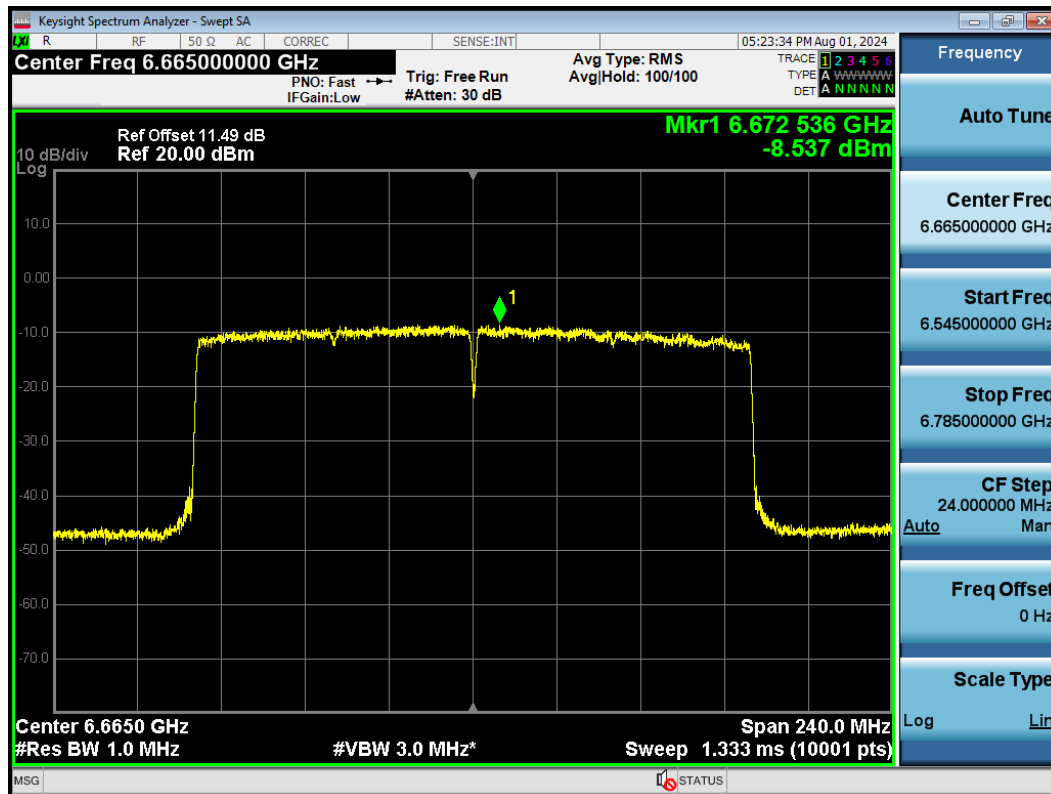
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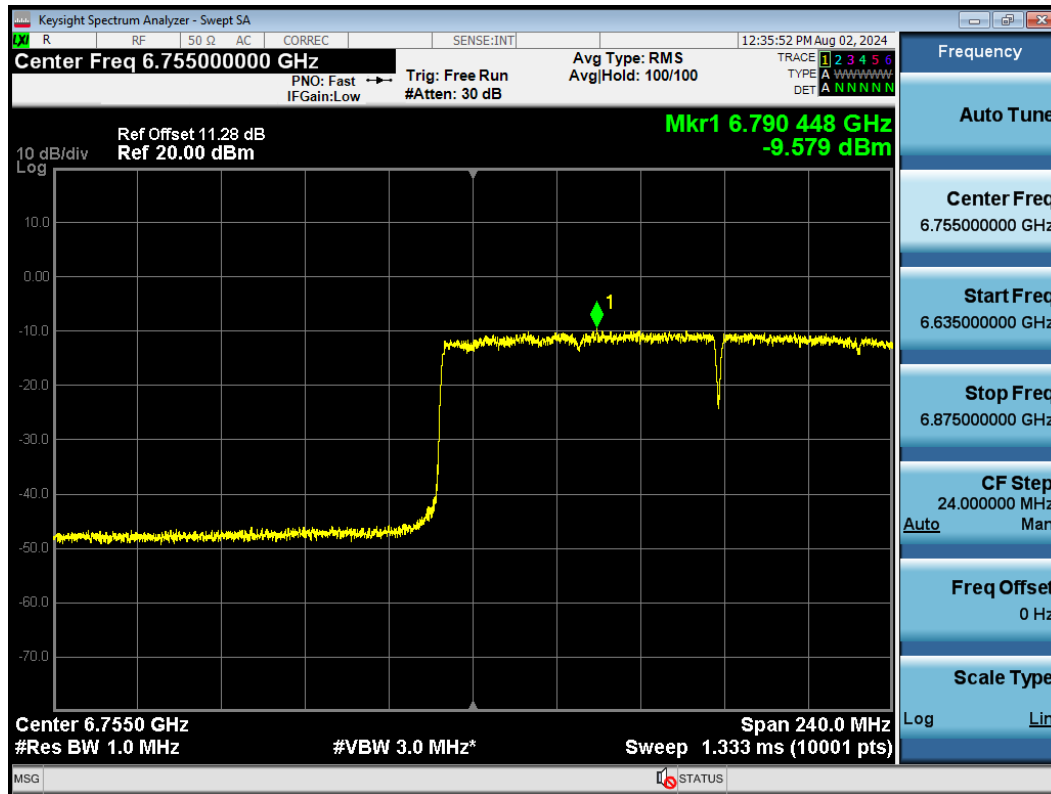
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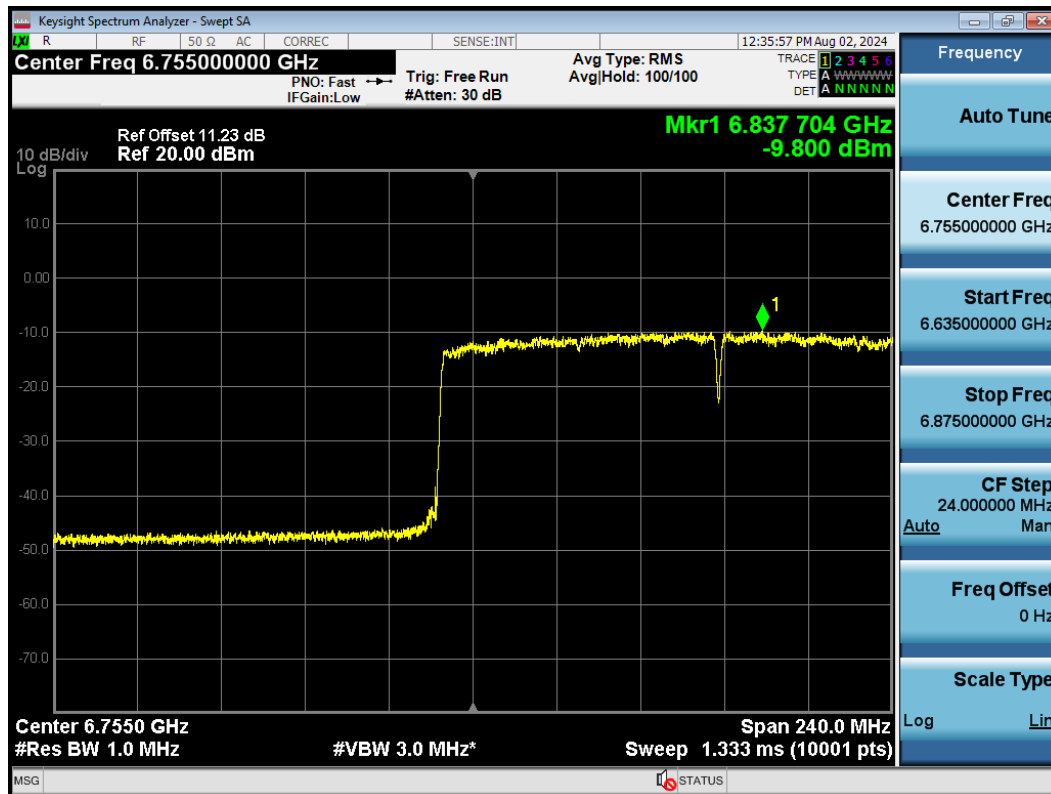
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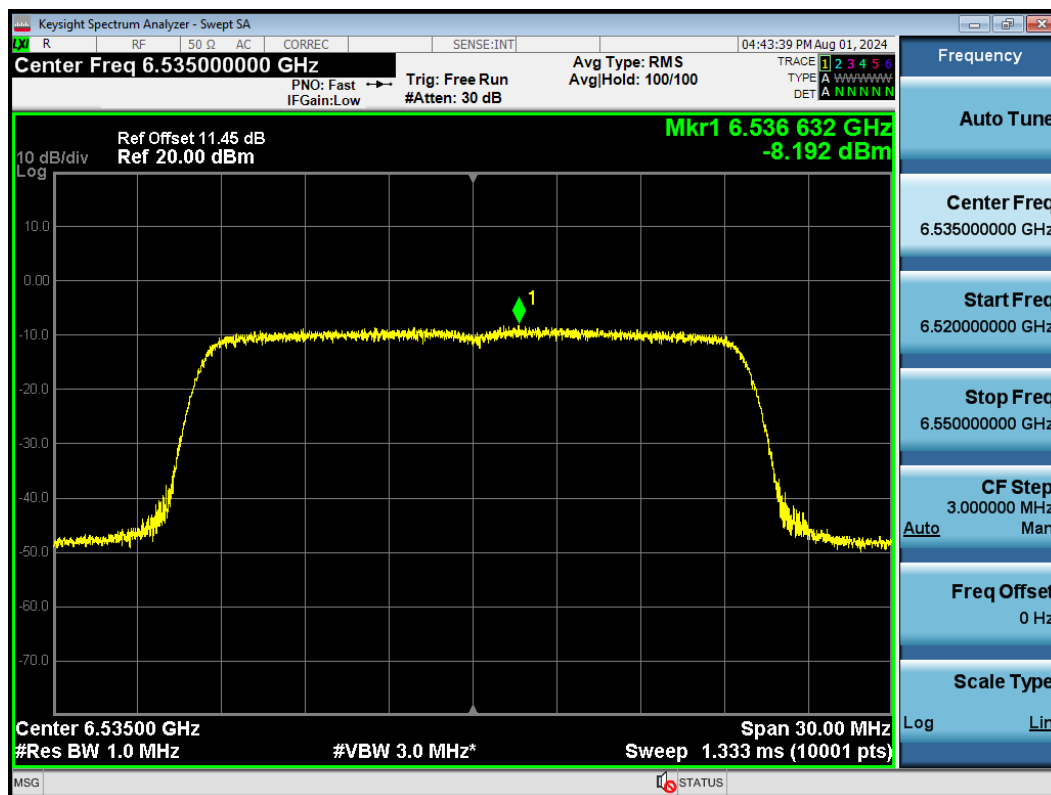
PSD 802.11ax HE160 6825MHz Ant1



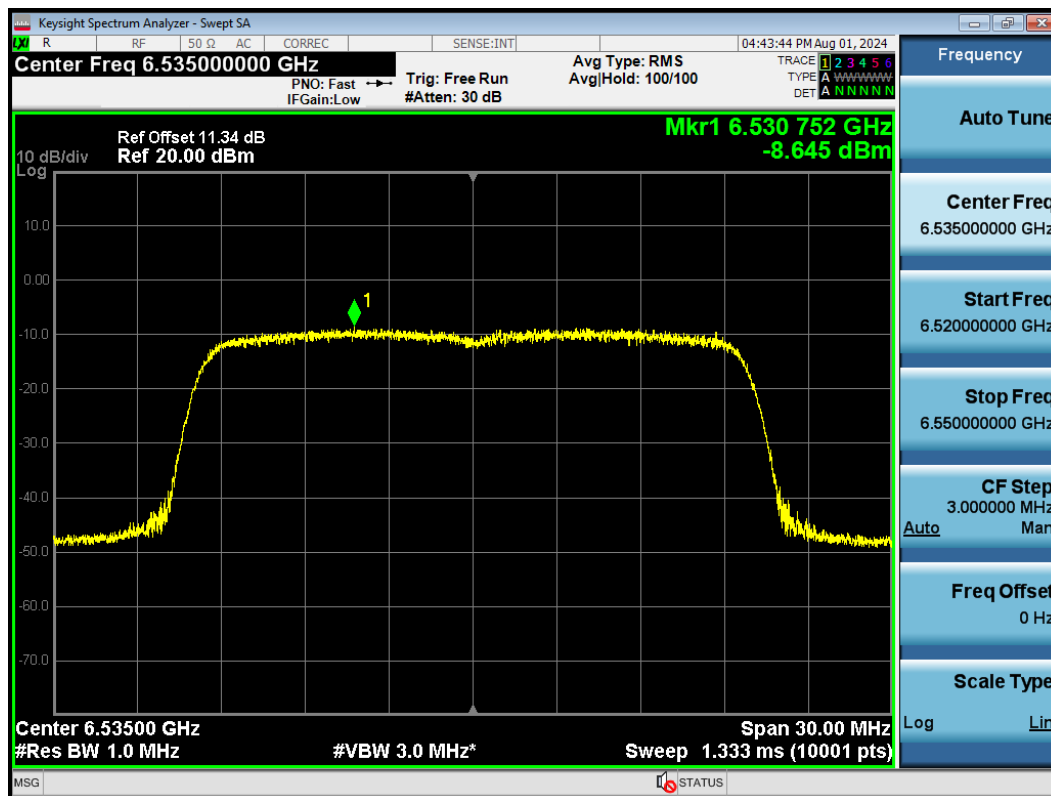
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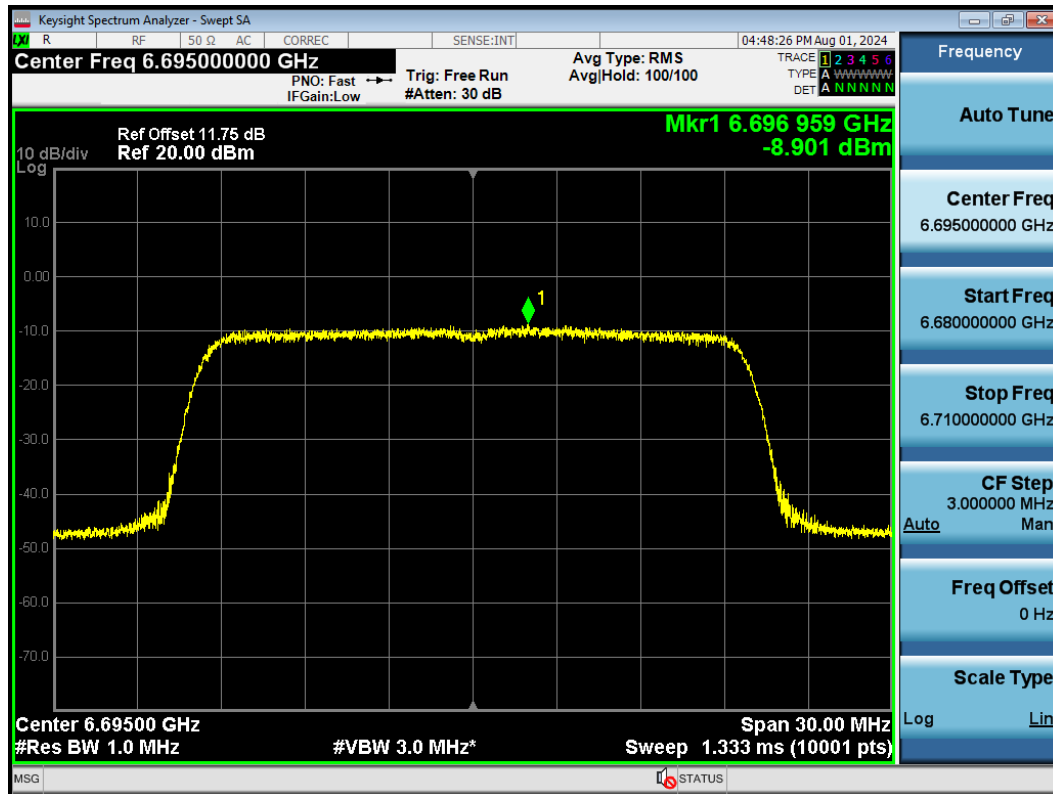
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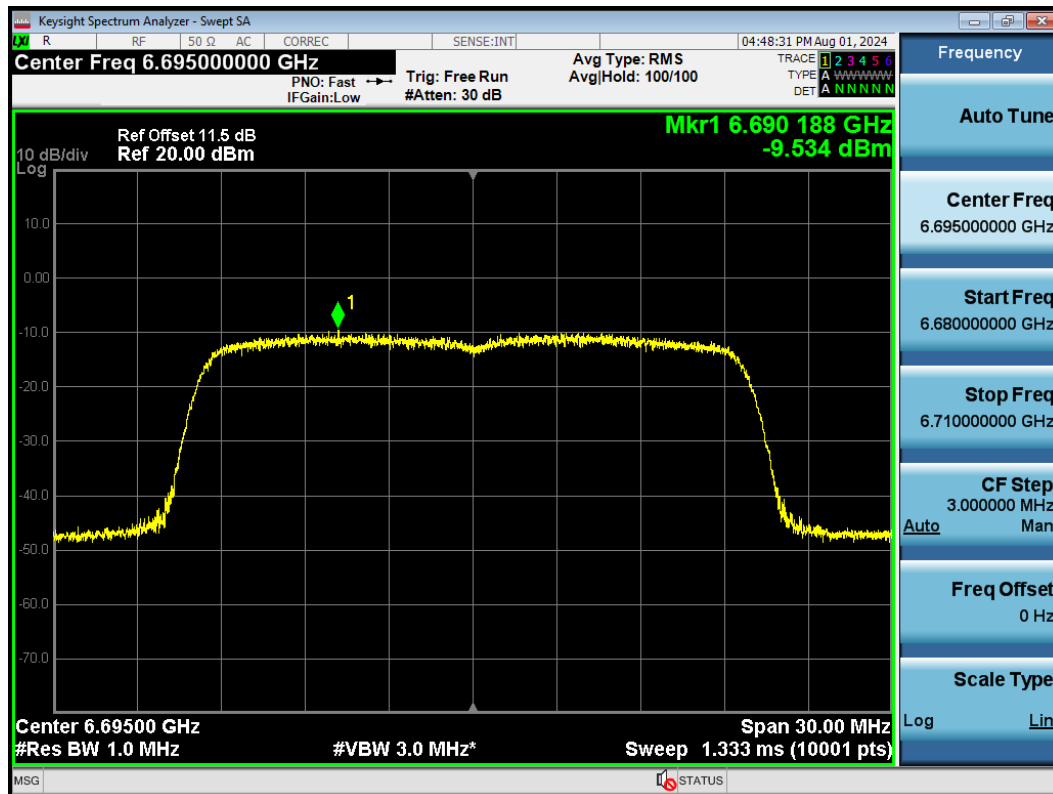
PSD 802.11ax HE20 6535MHz Ant2



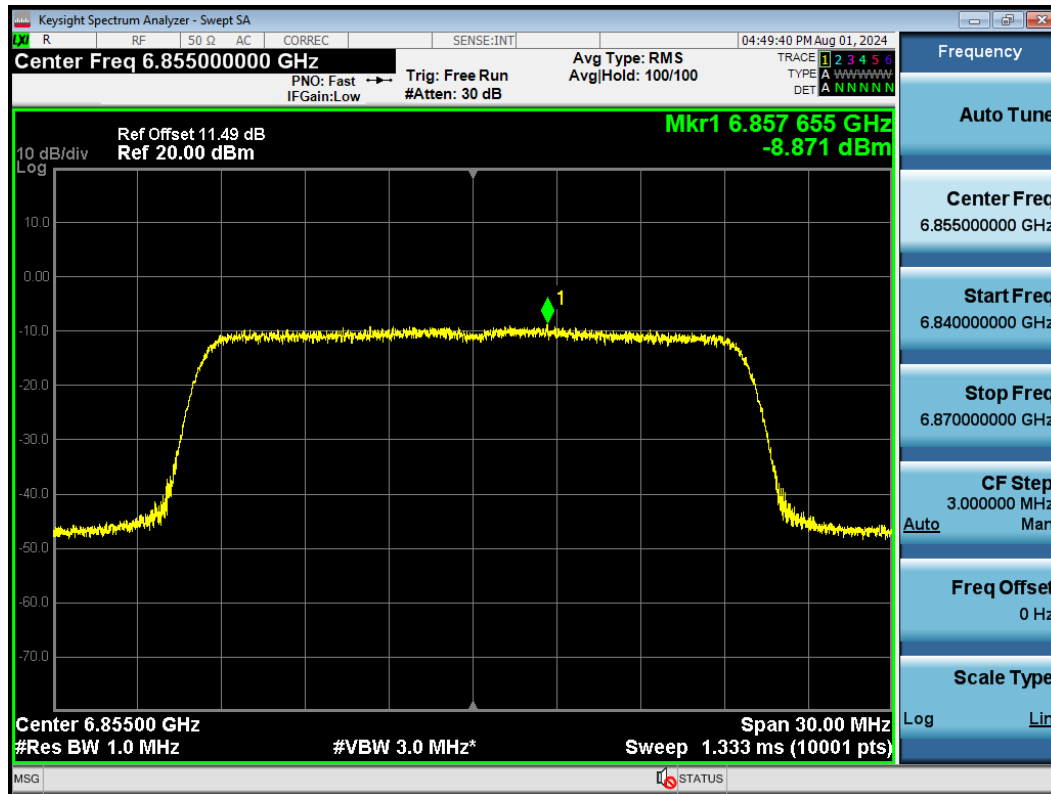
PSD 802.11ax HE20 6695MHz Ant1



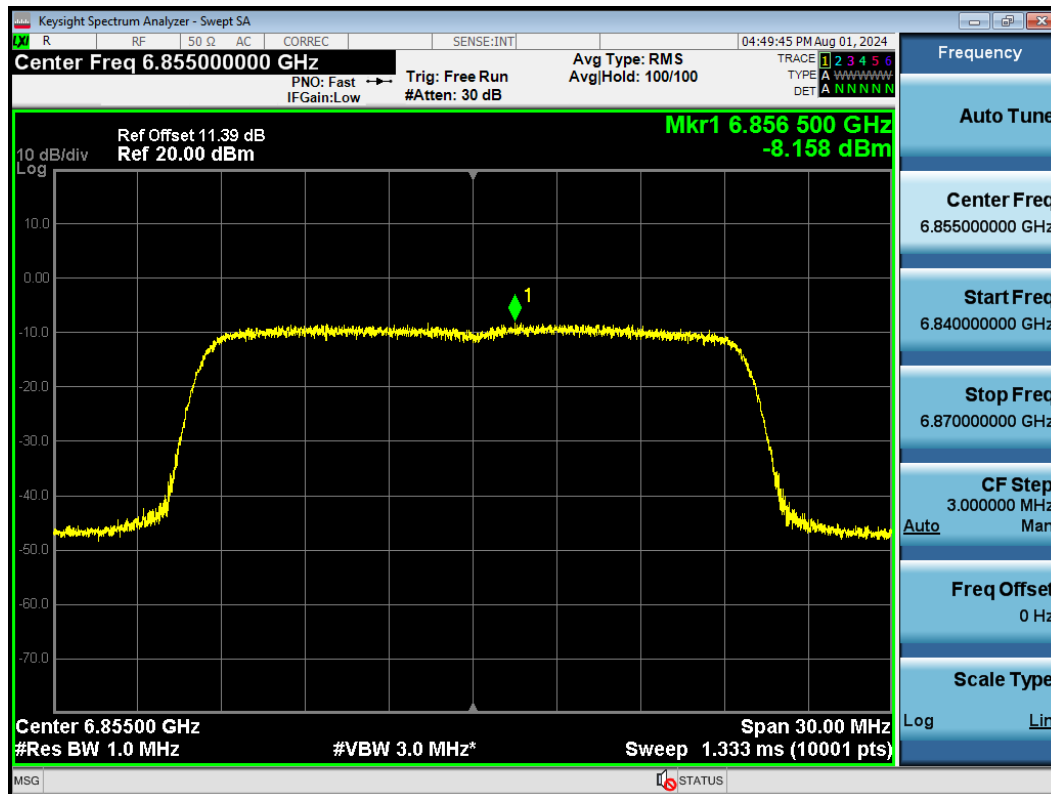
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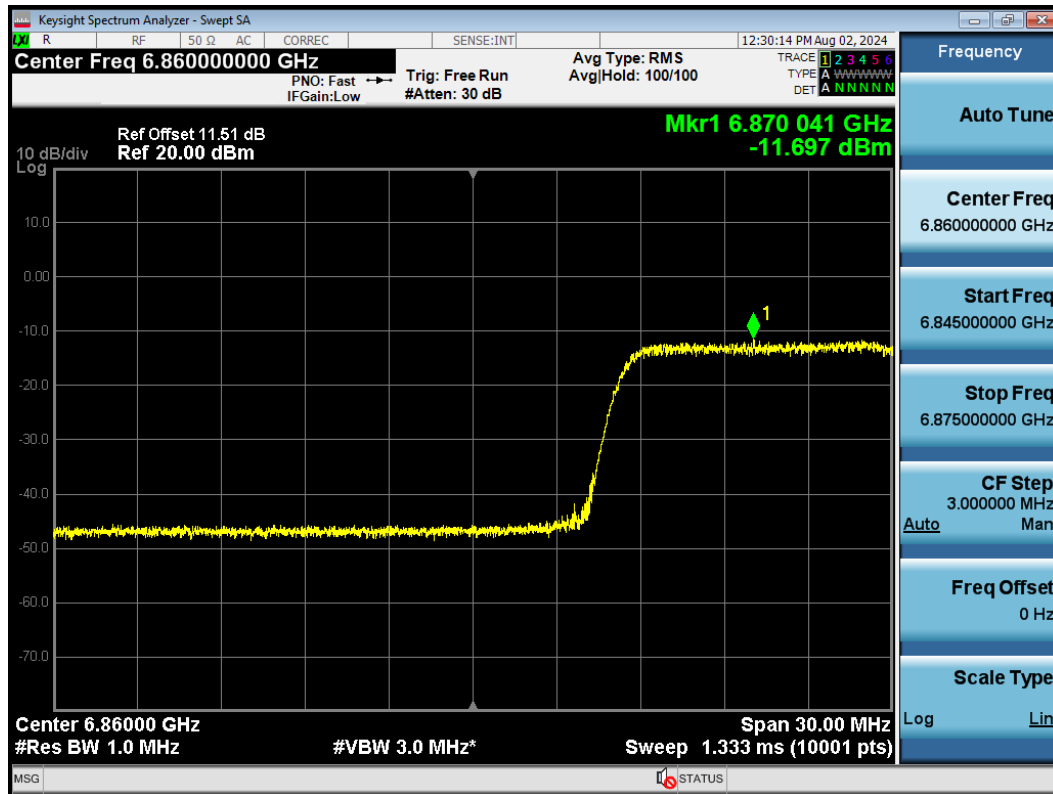
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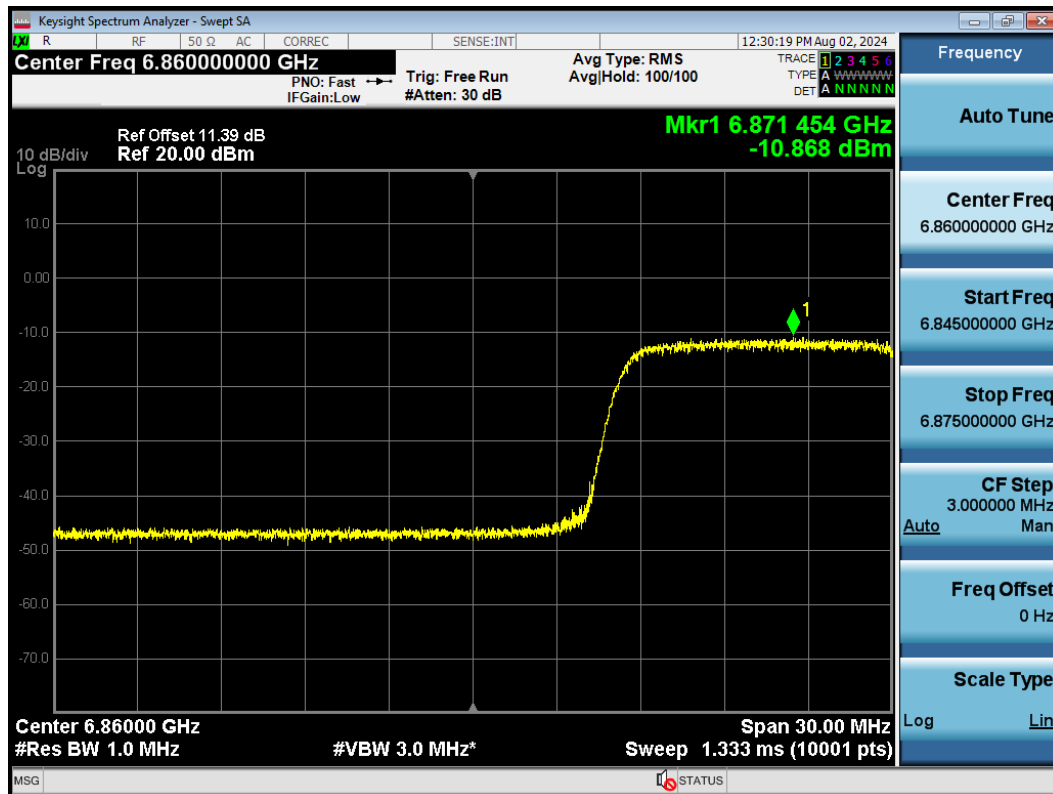
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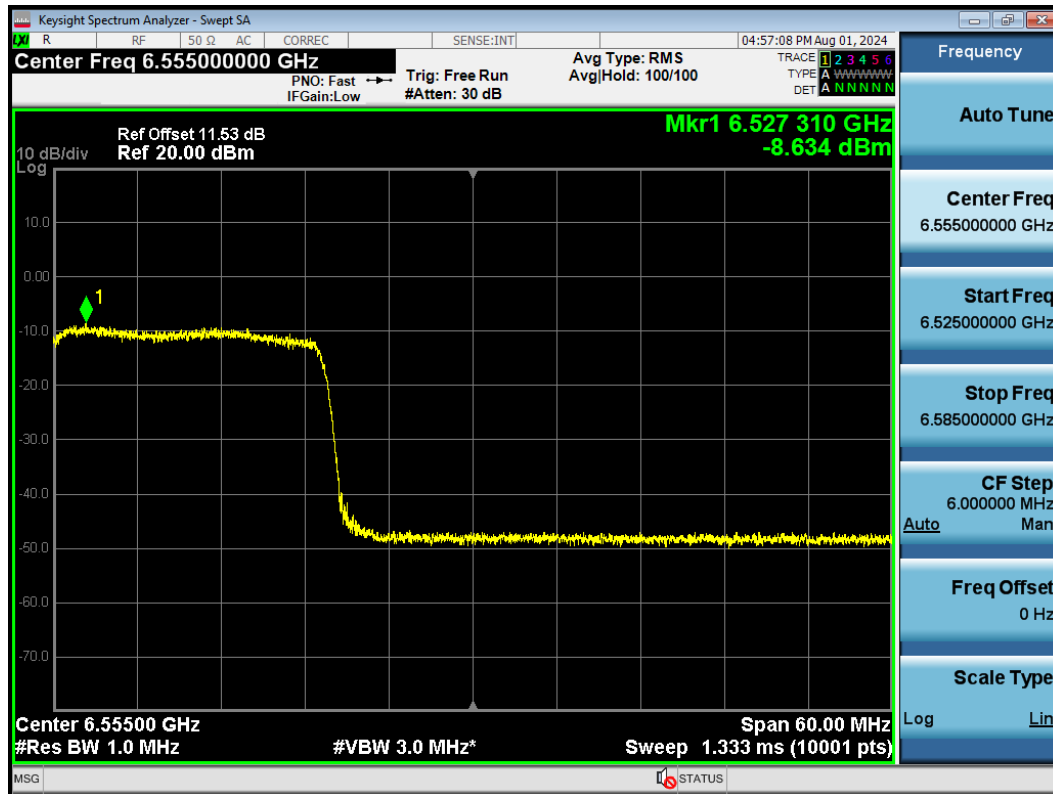
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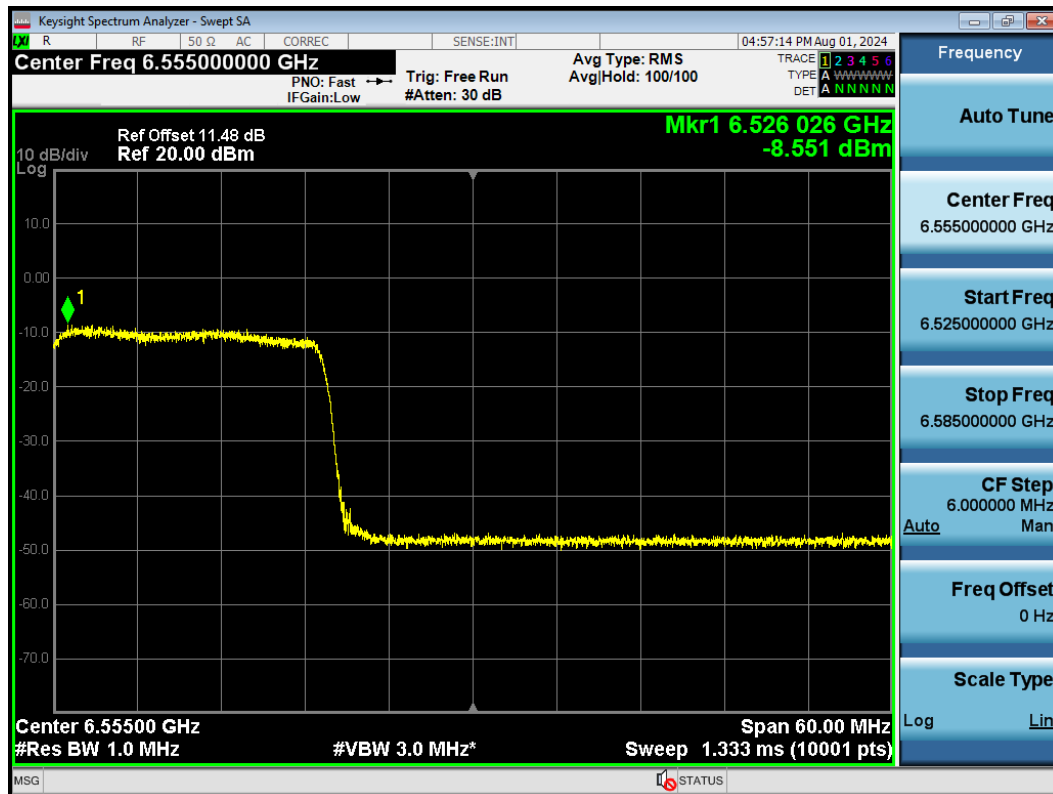
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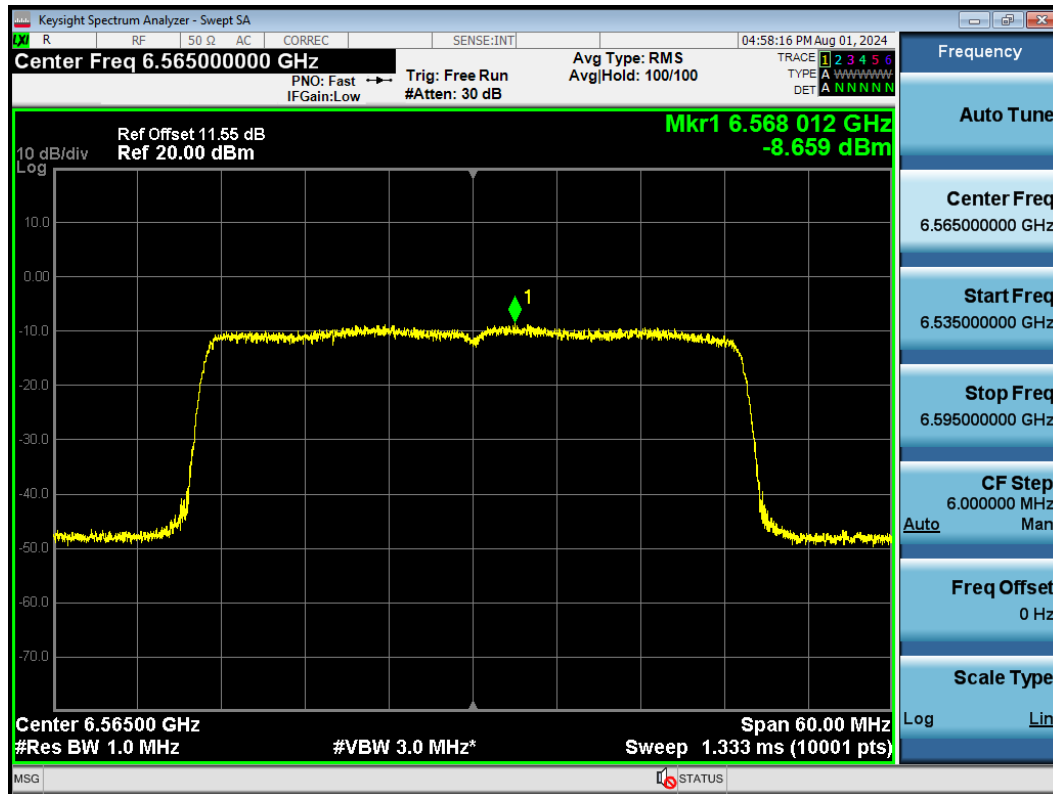
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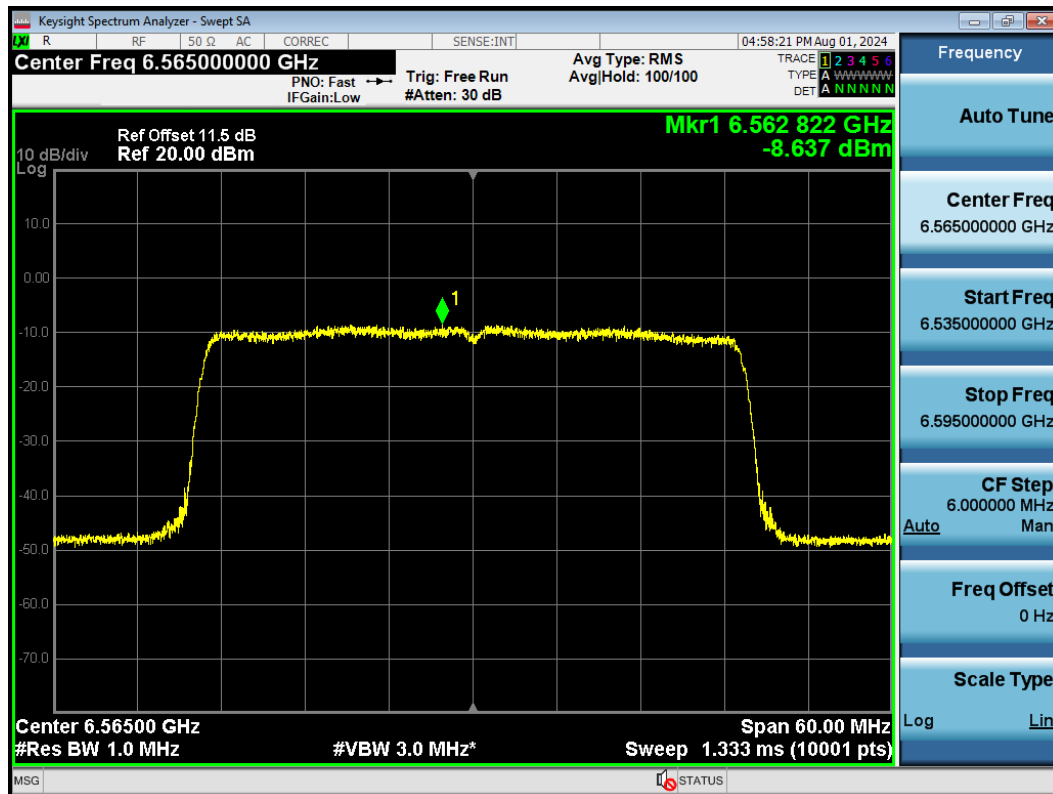
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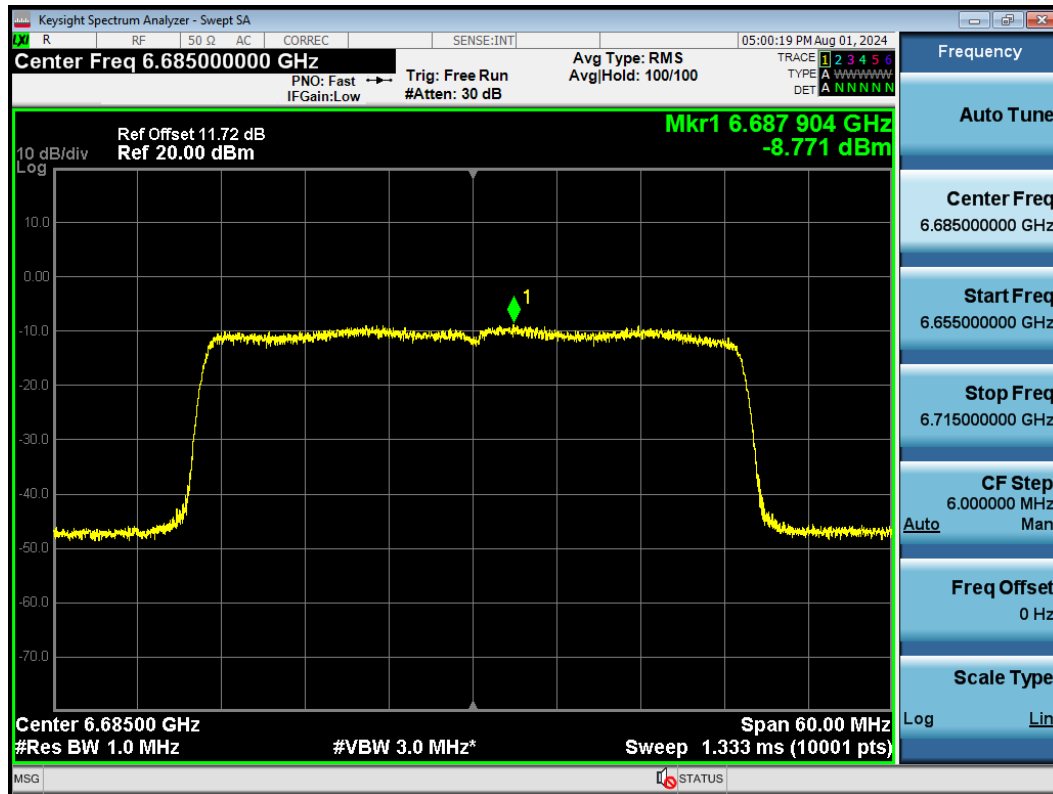
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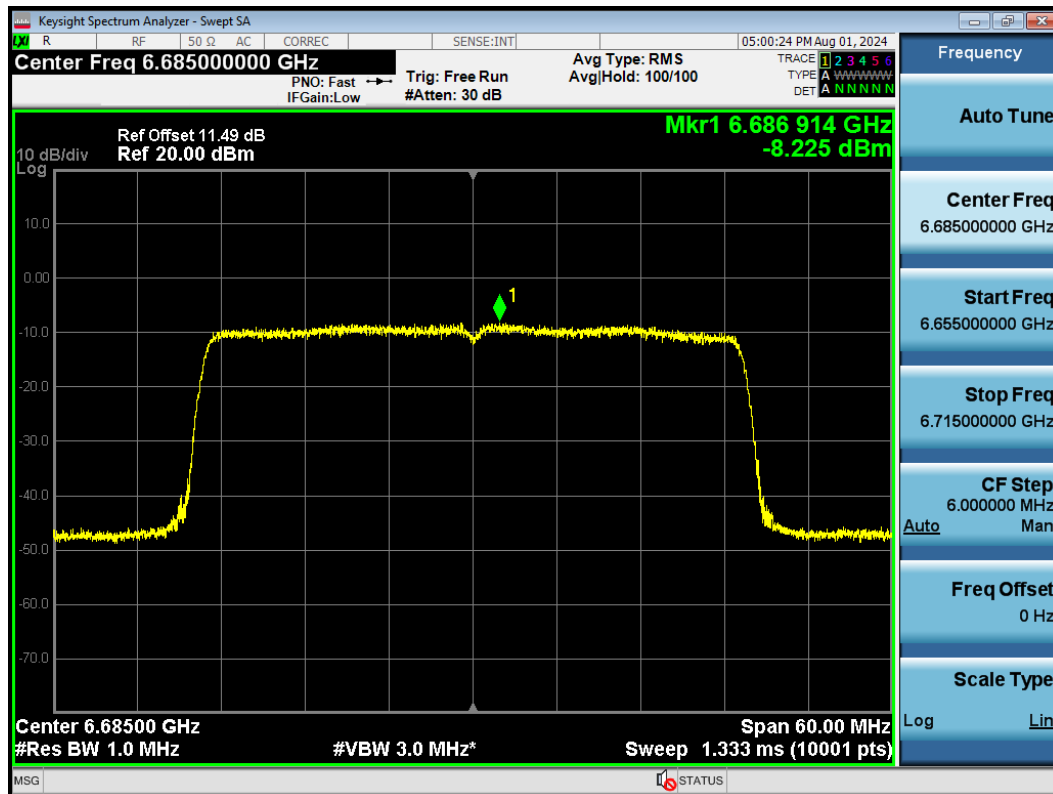
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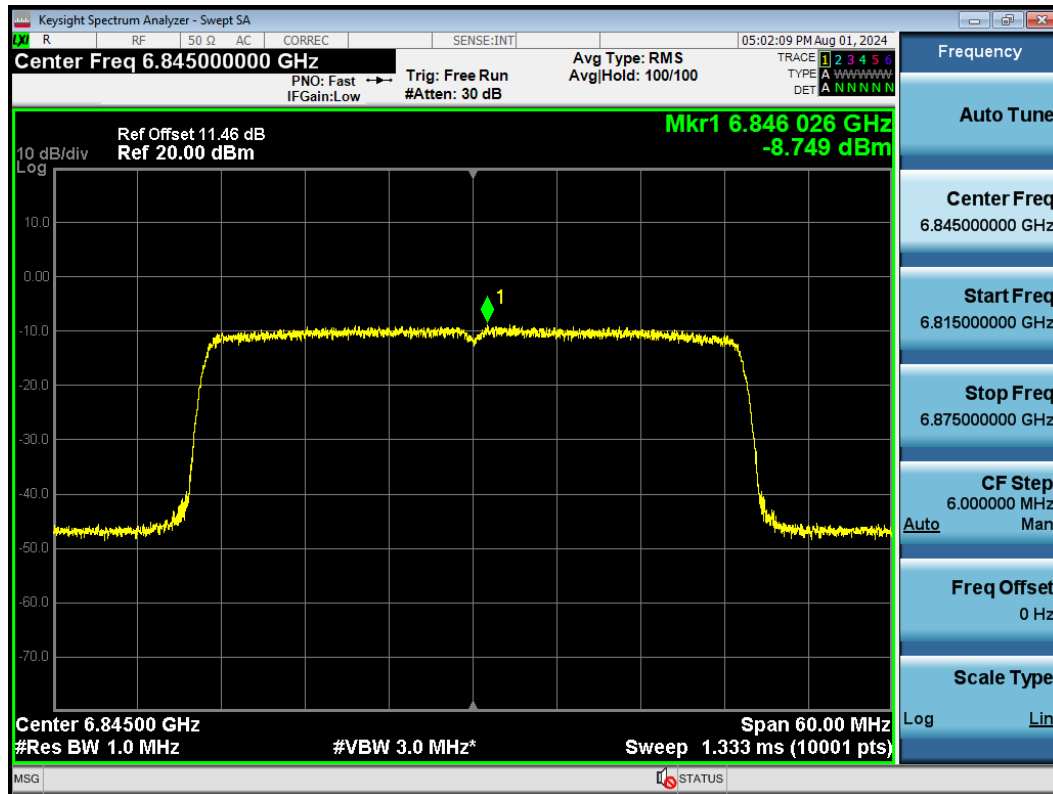
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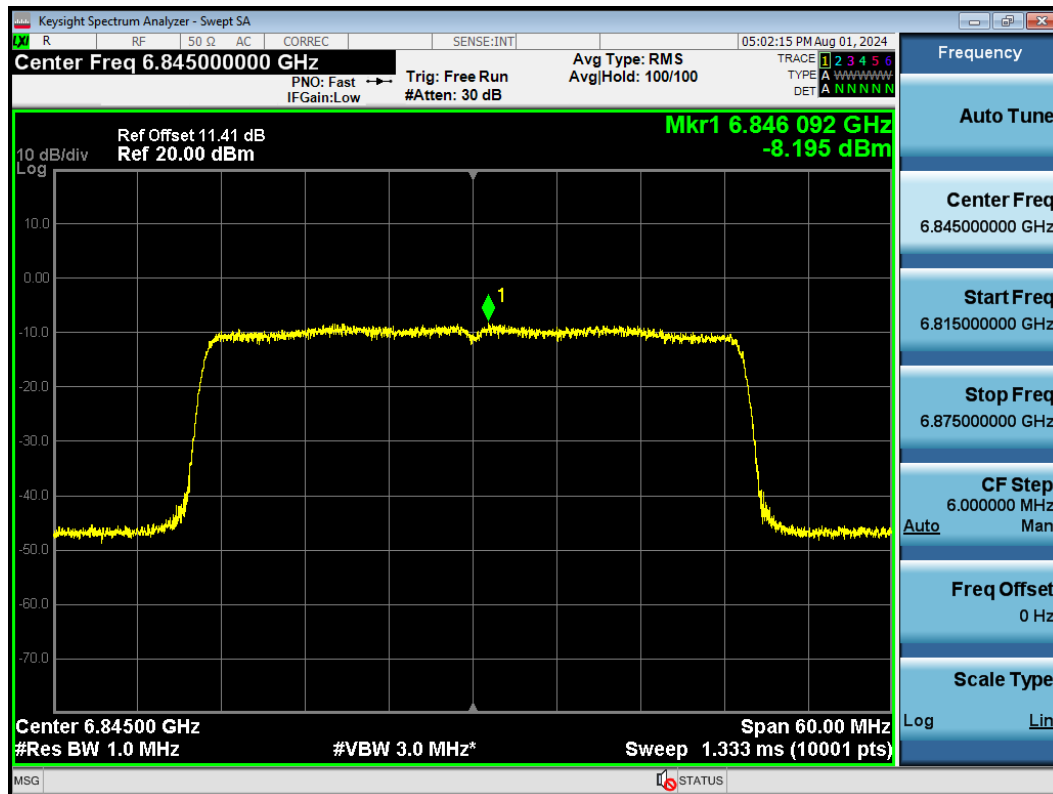
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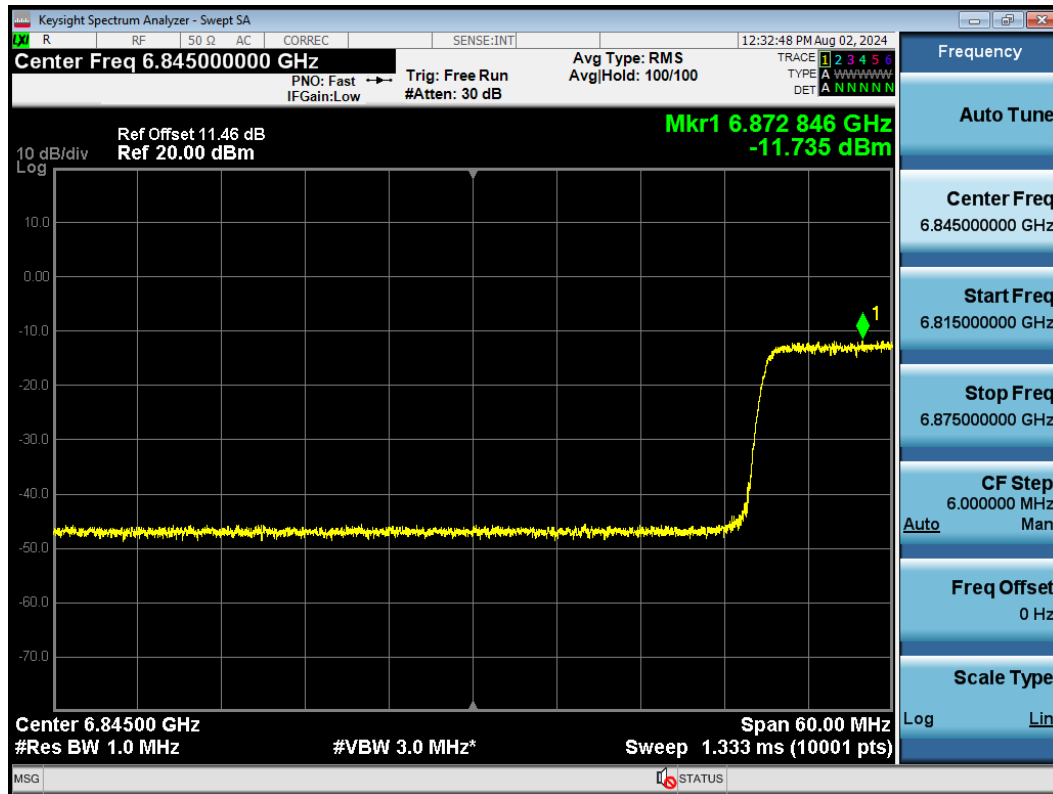
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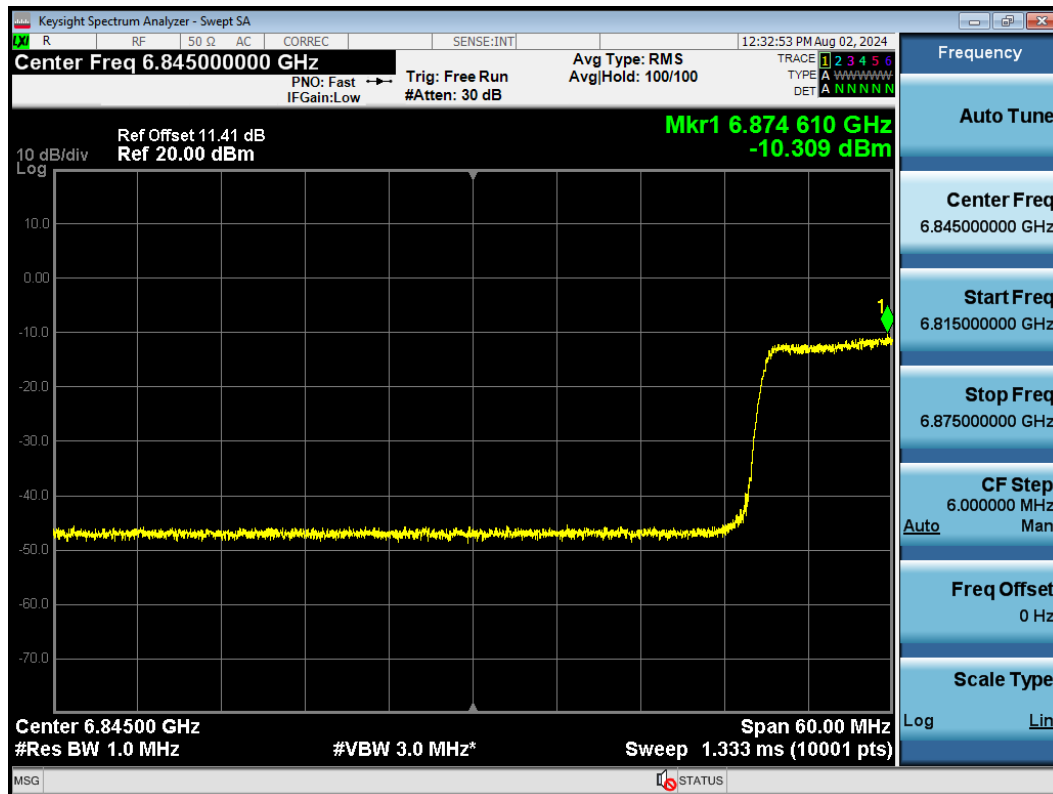
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PSD 802.11ax HE40 6885MHz Ant1



PSD 802.11ax HE40 6885MHz Ant2



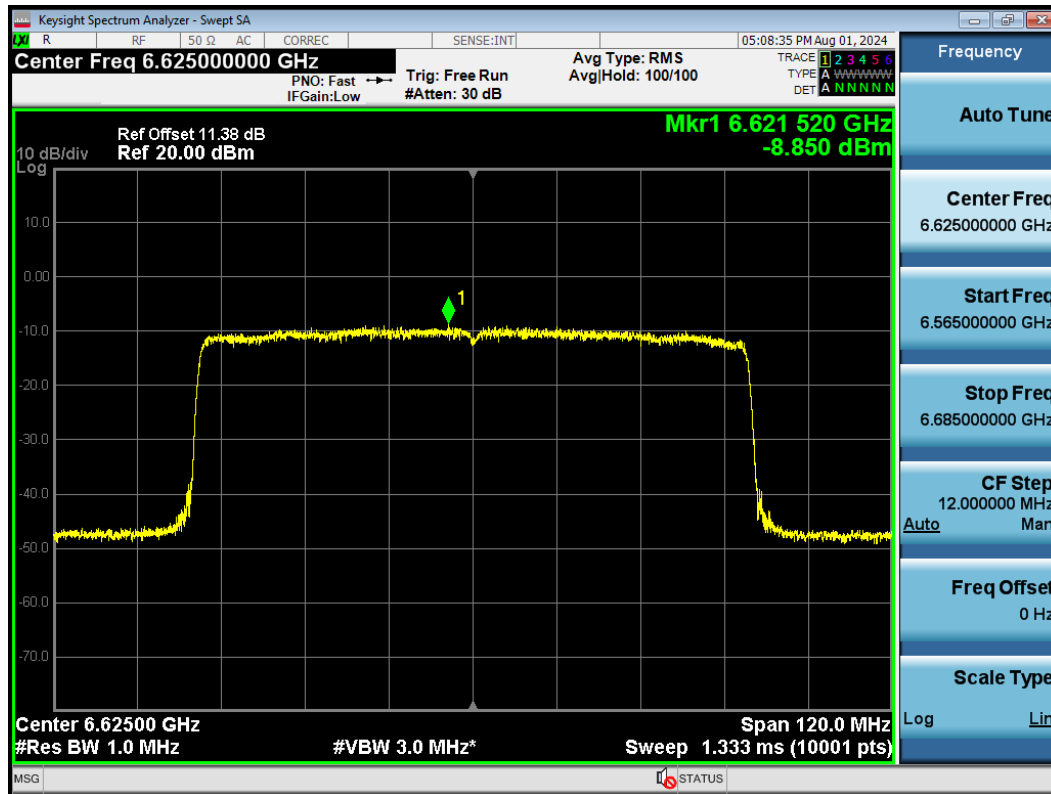
PSD 802.11ax HE80 6545MHz Ant1



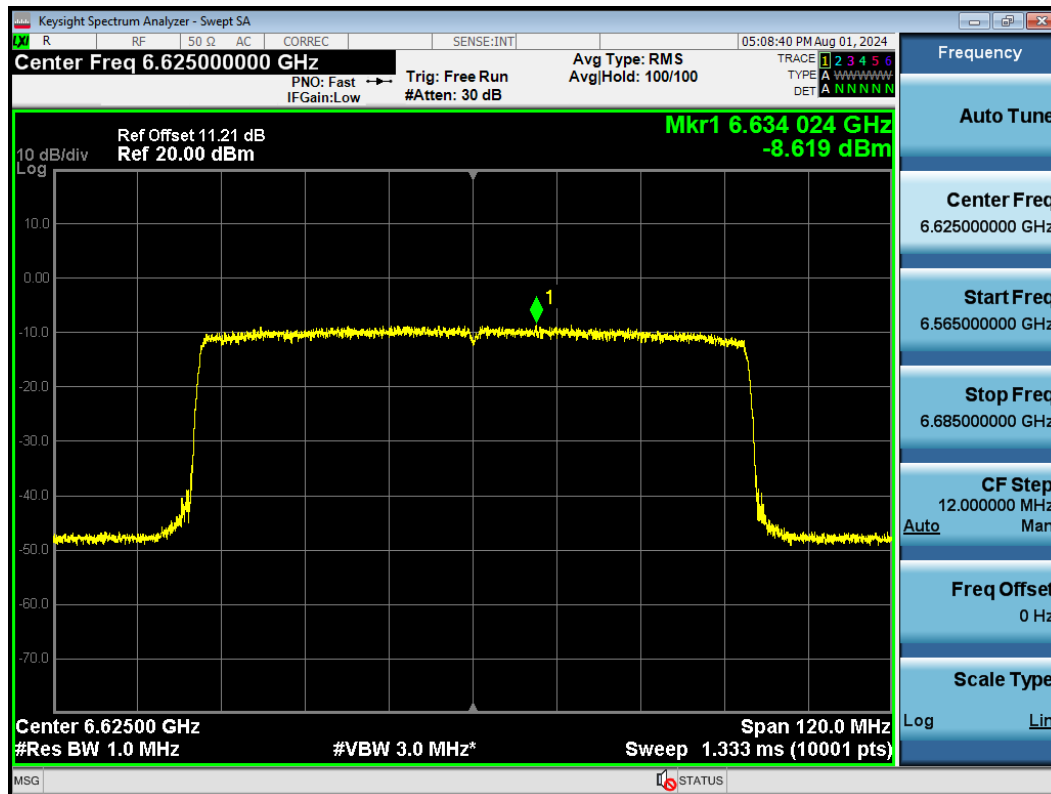
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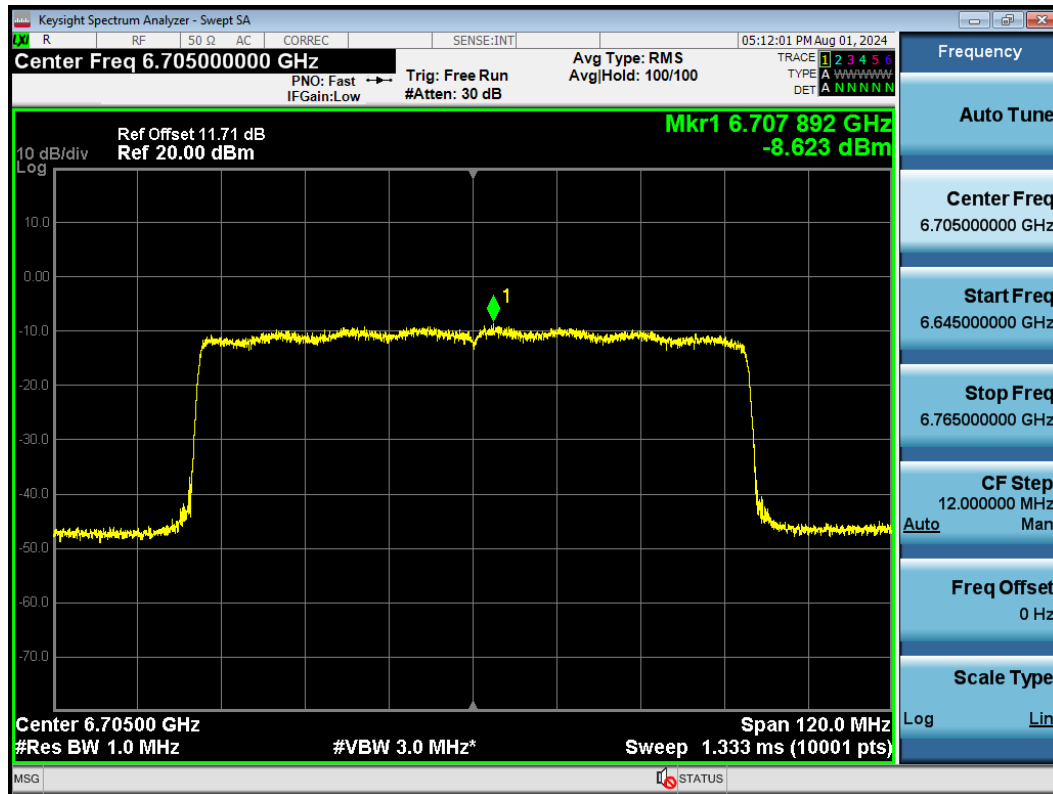
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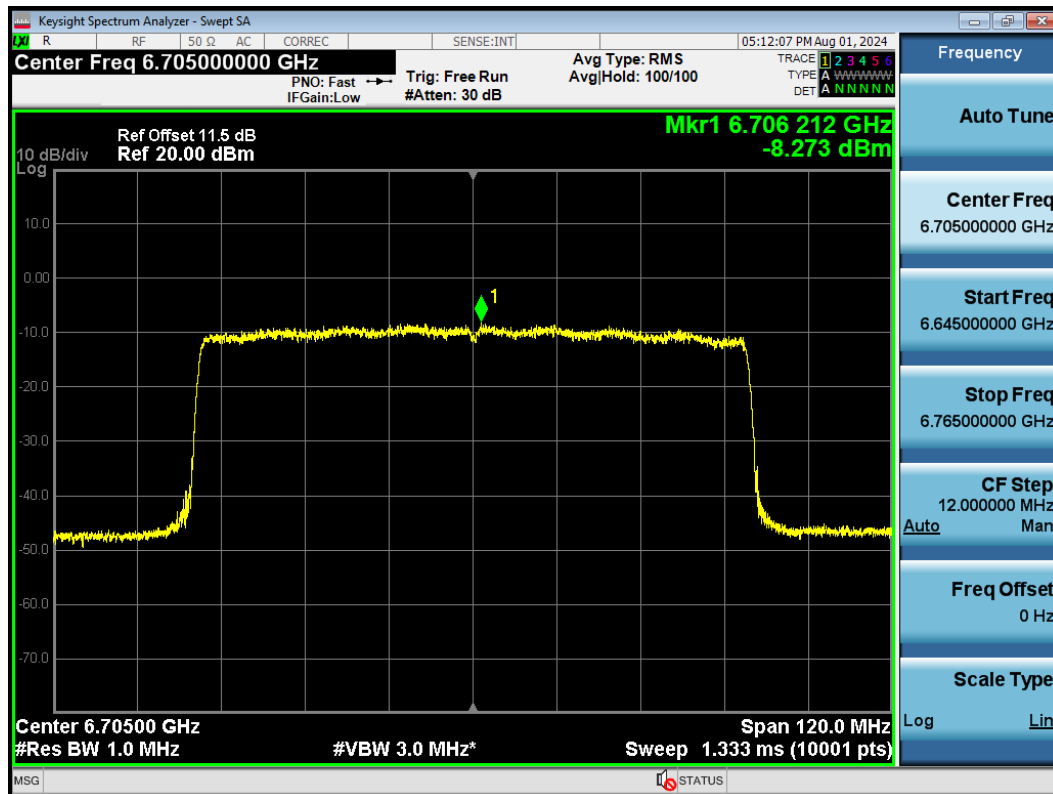
PSD 802.11ax HE80 6625MHz Ant2



PSD 802.11ax HE80 6705MHz Ant1



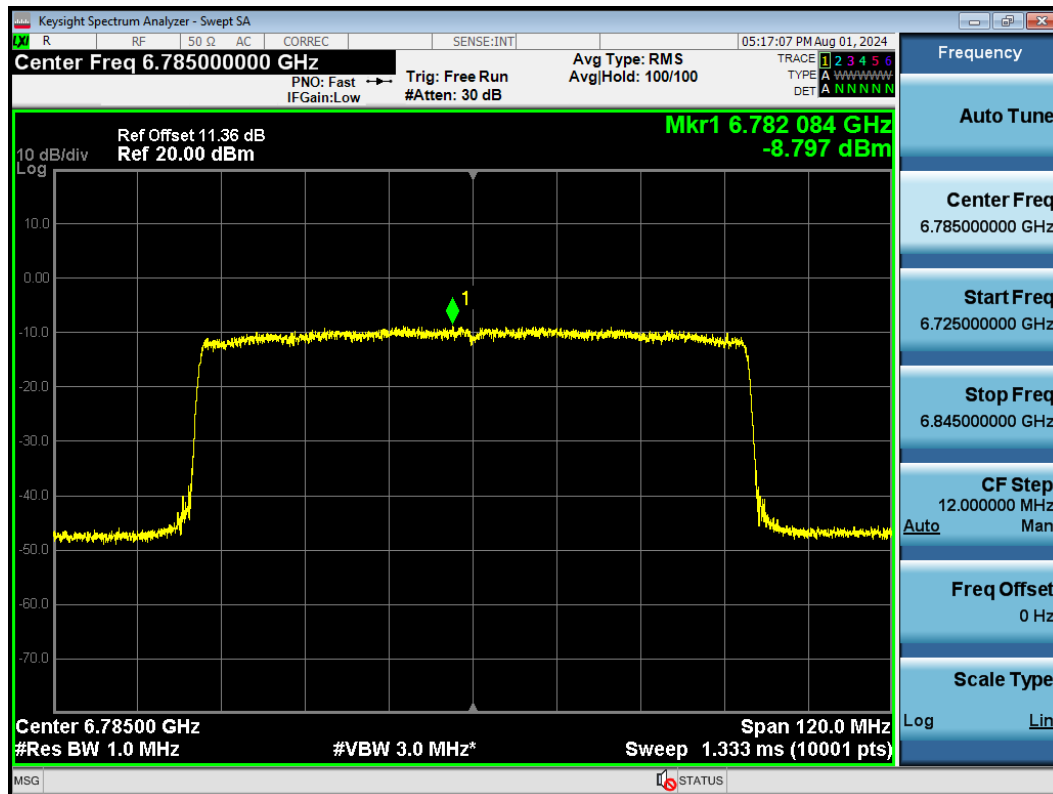
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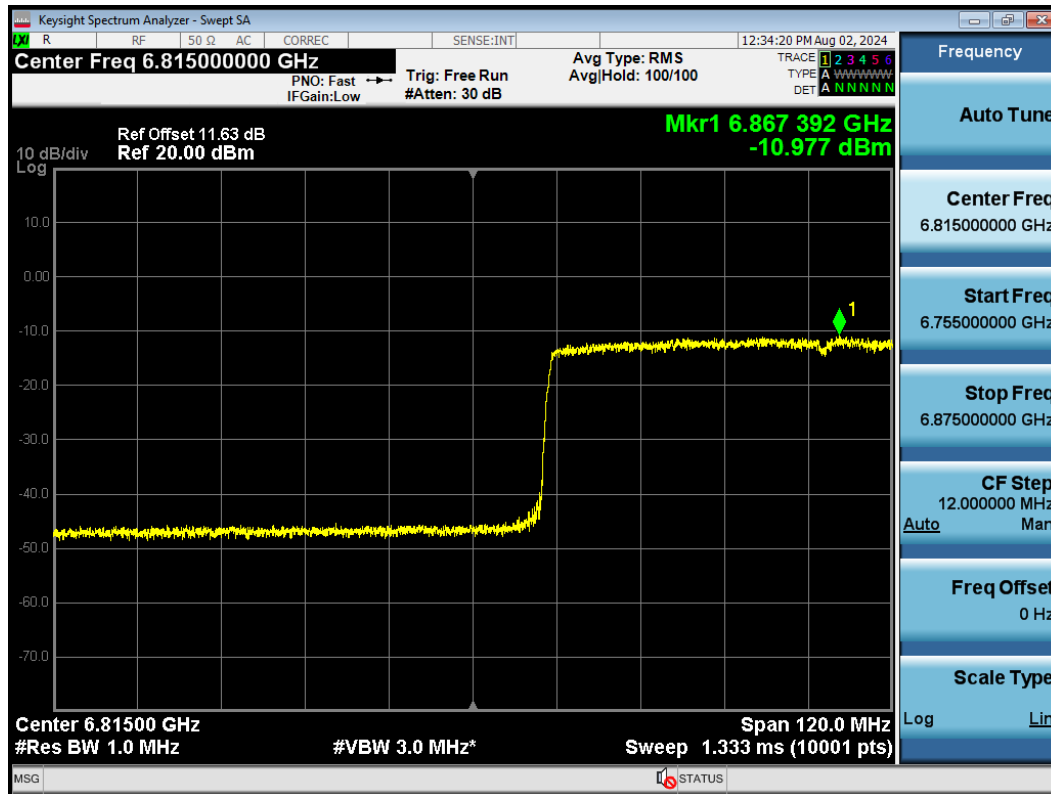
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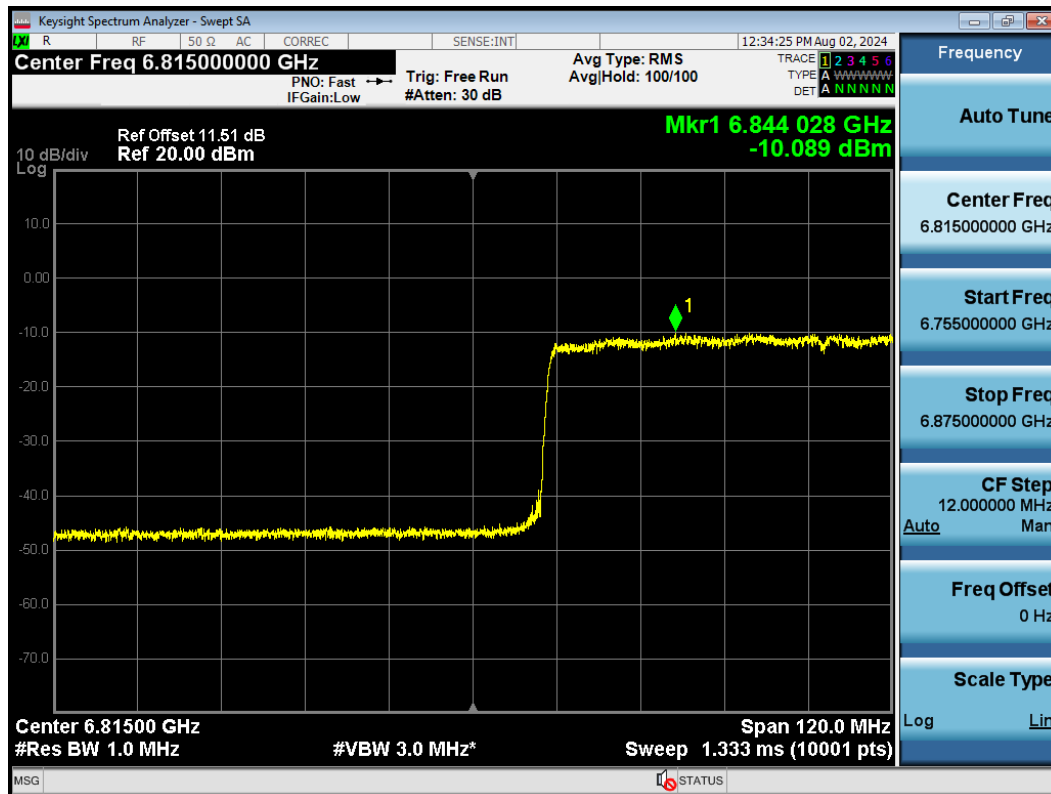
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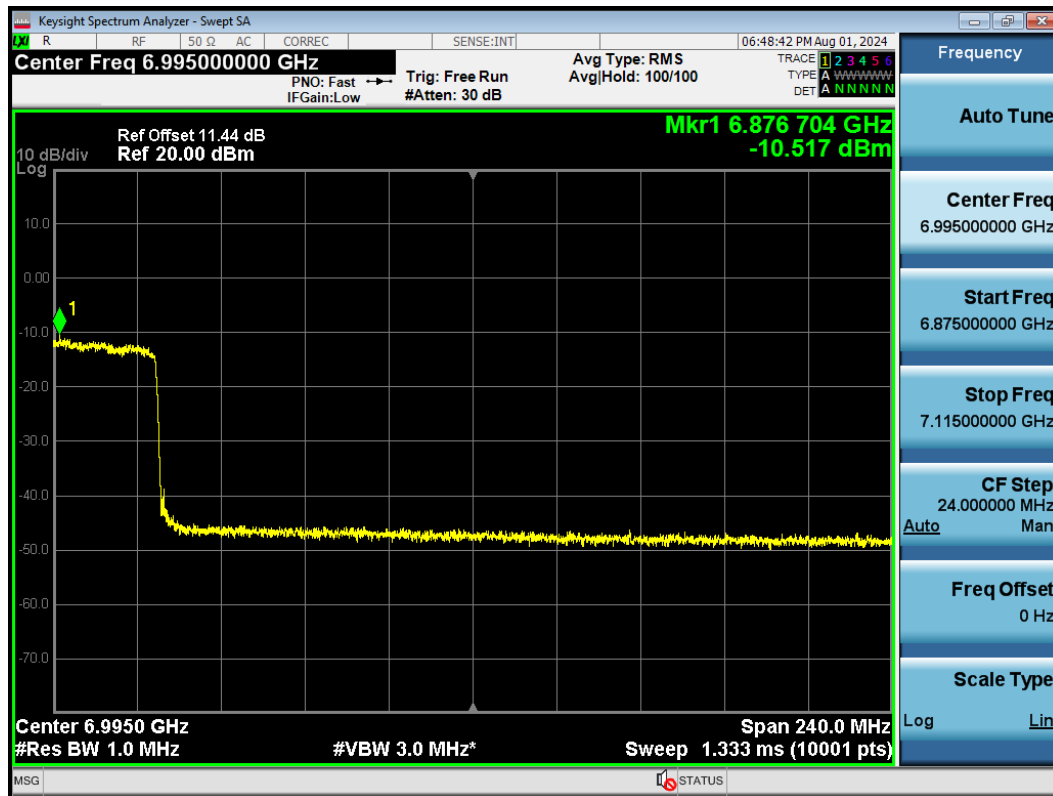


PSD 802.11ax HE80 6865MHz Ant2

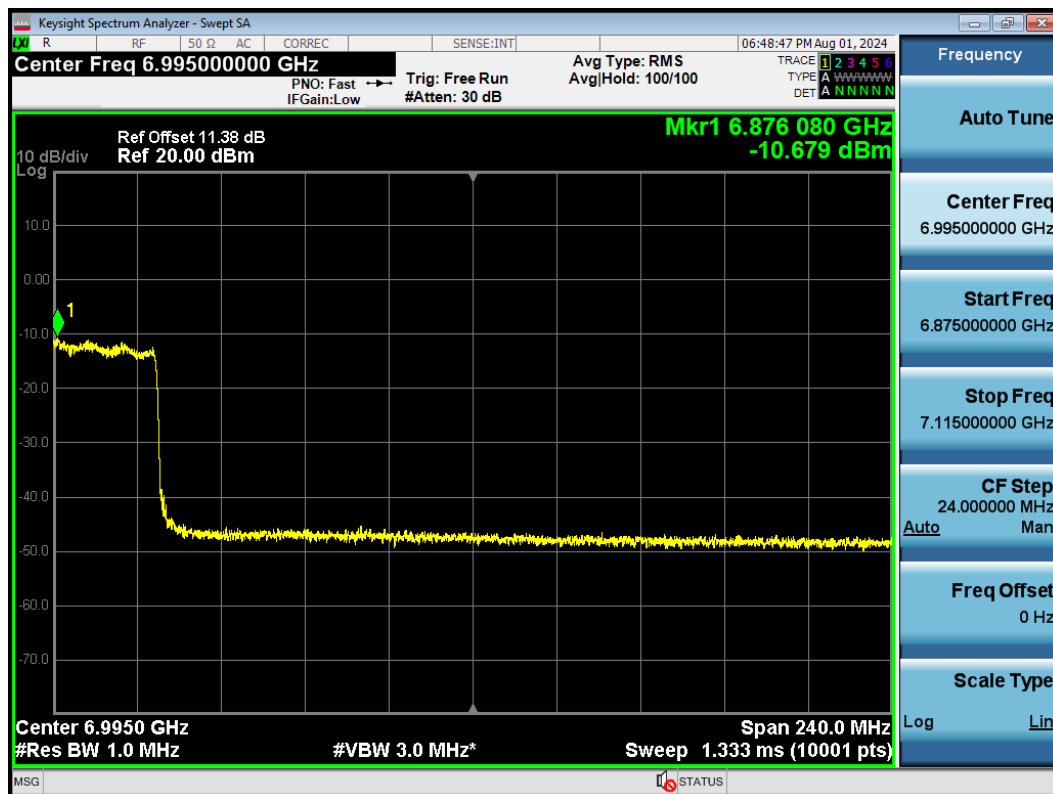


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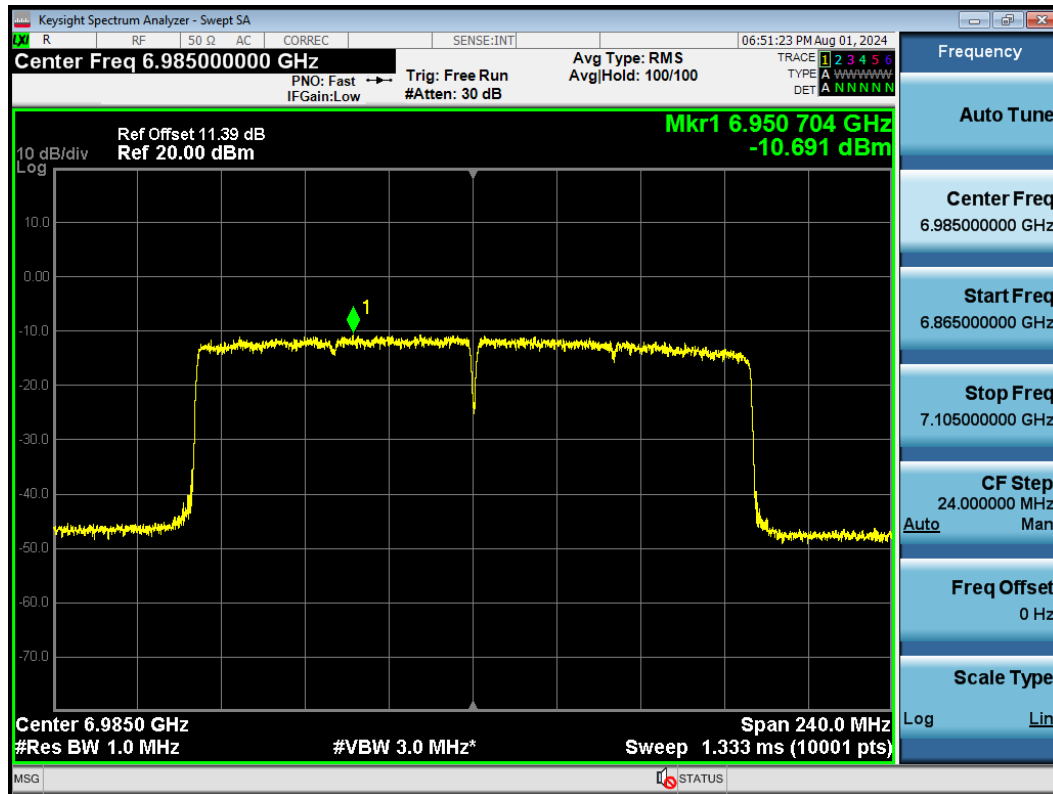
PSD 802.11ax HE160 6825MHz Ant1



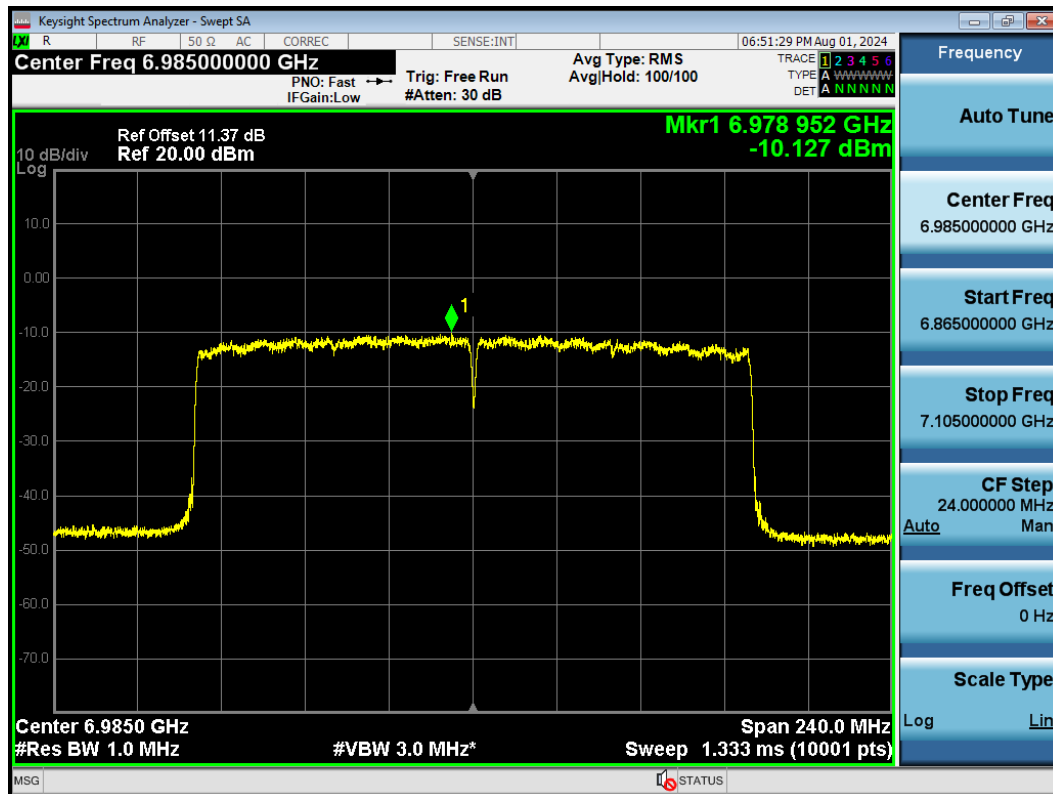
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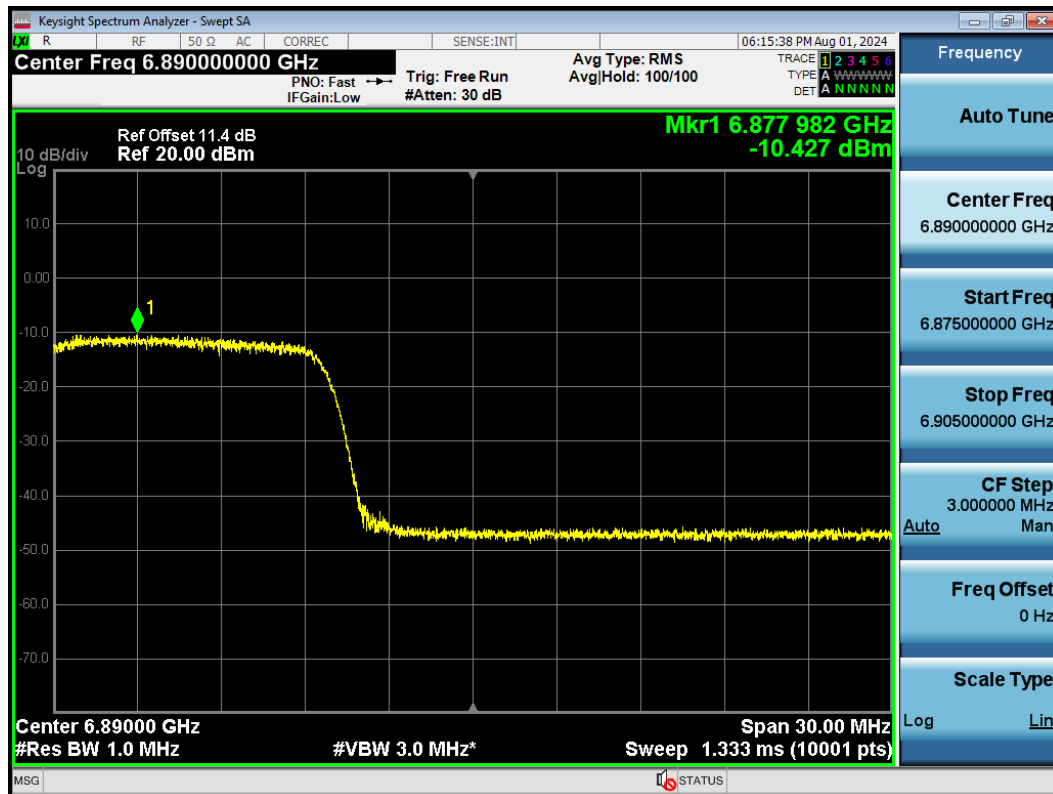
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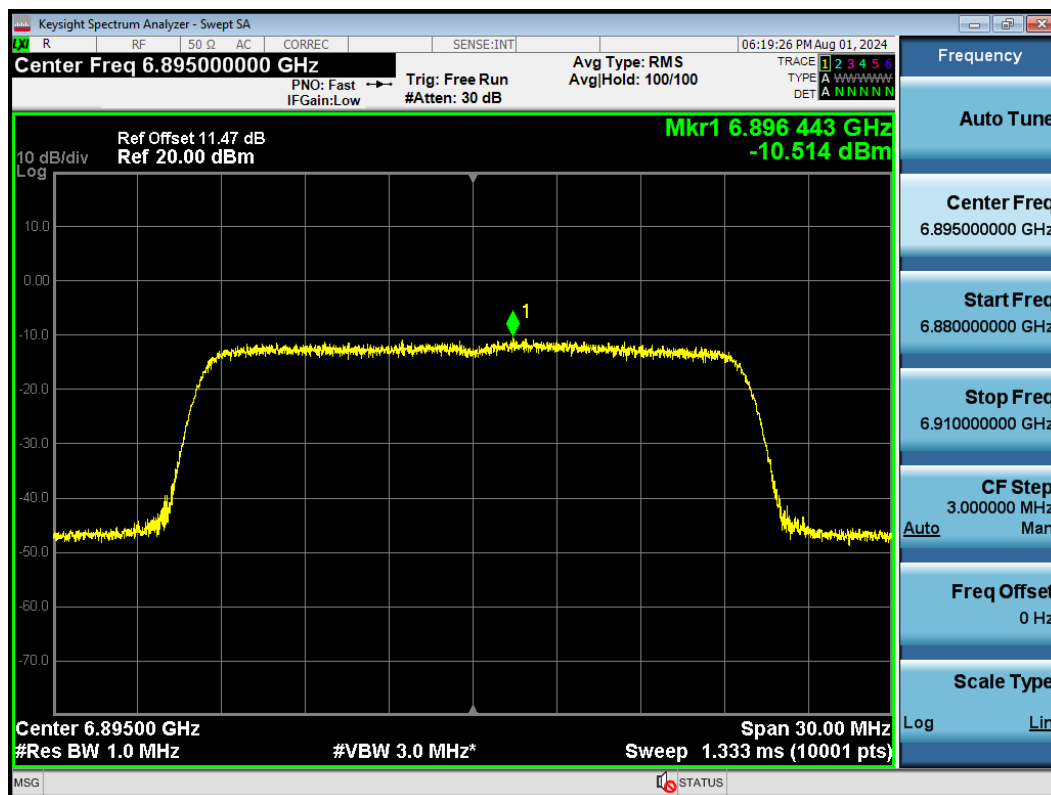
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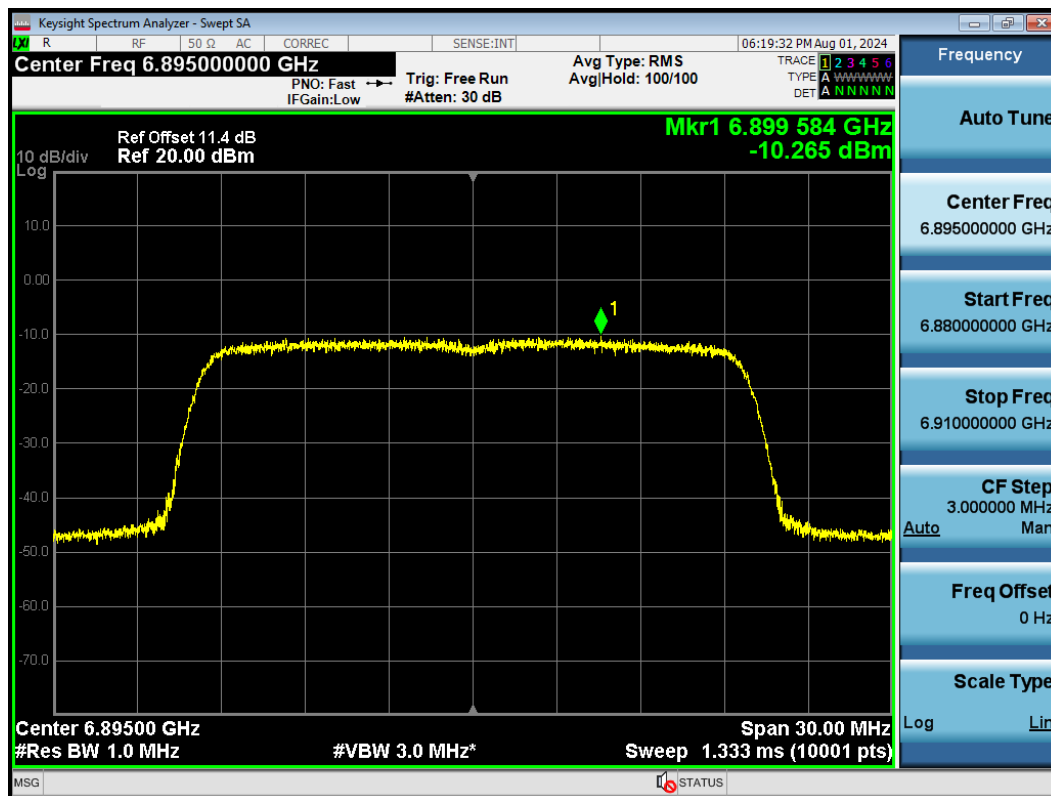
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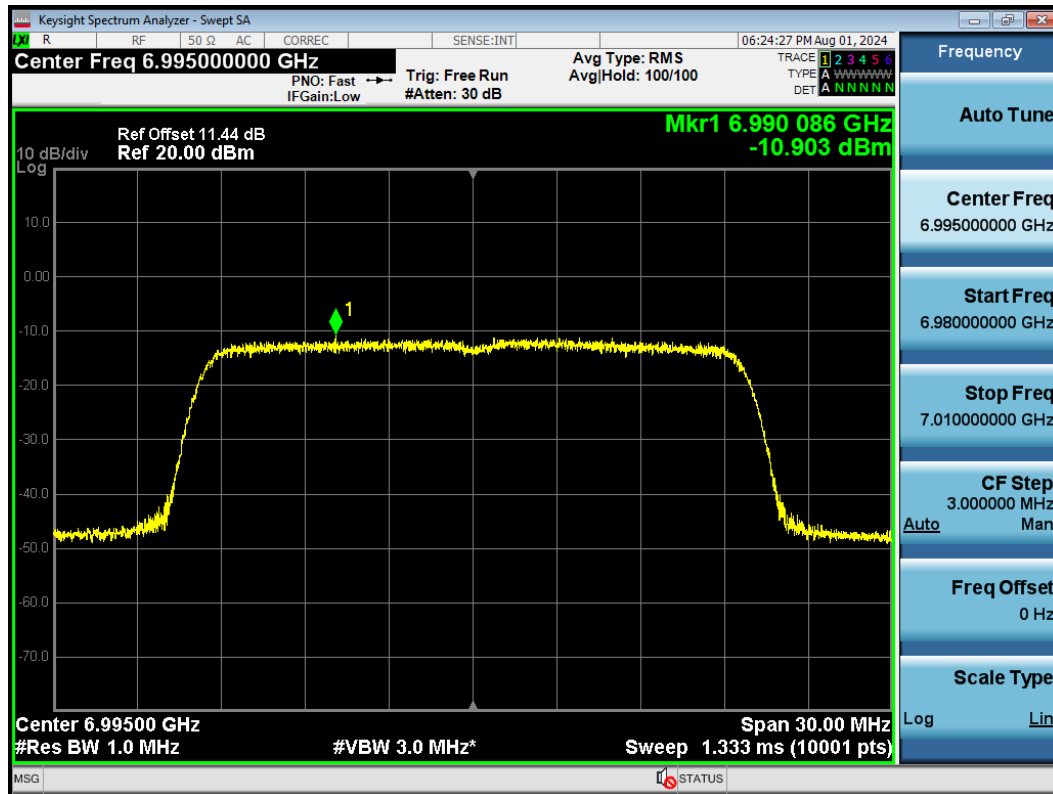
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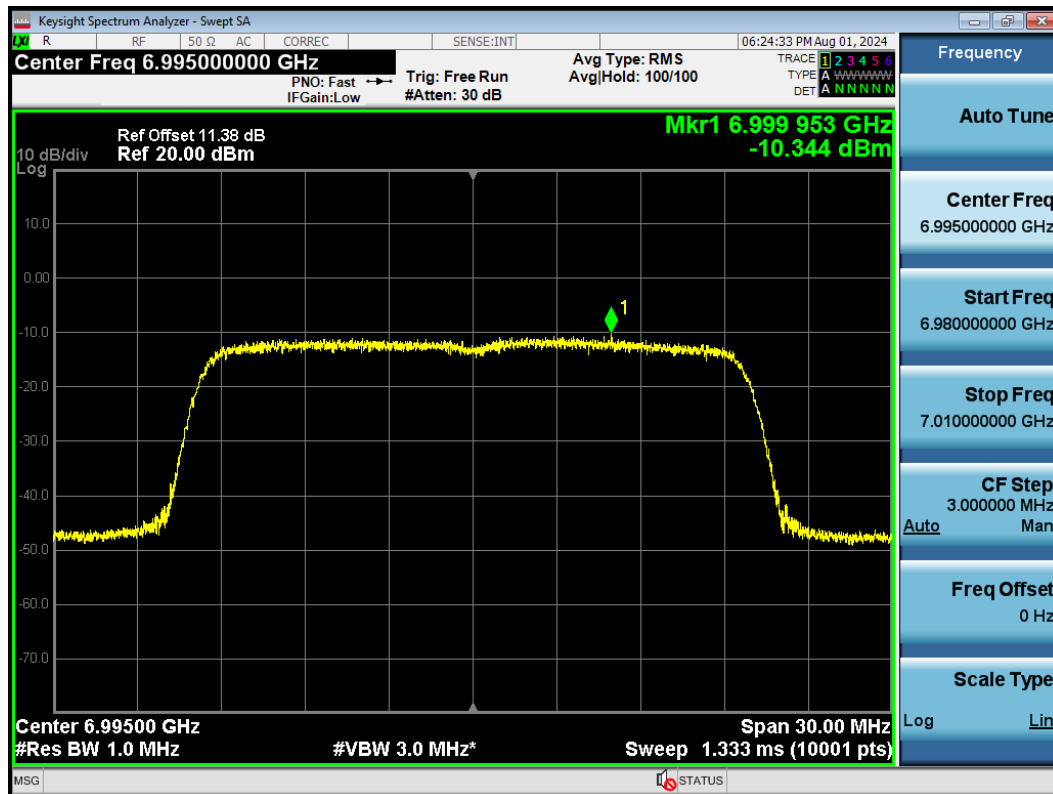
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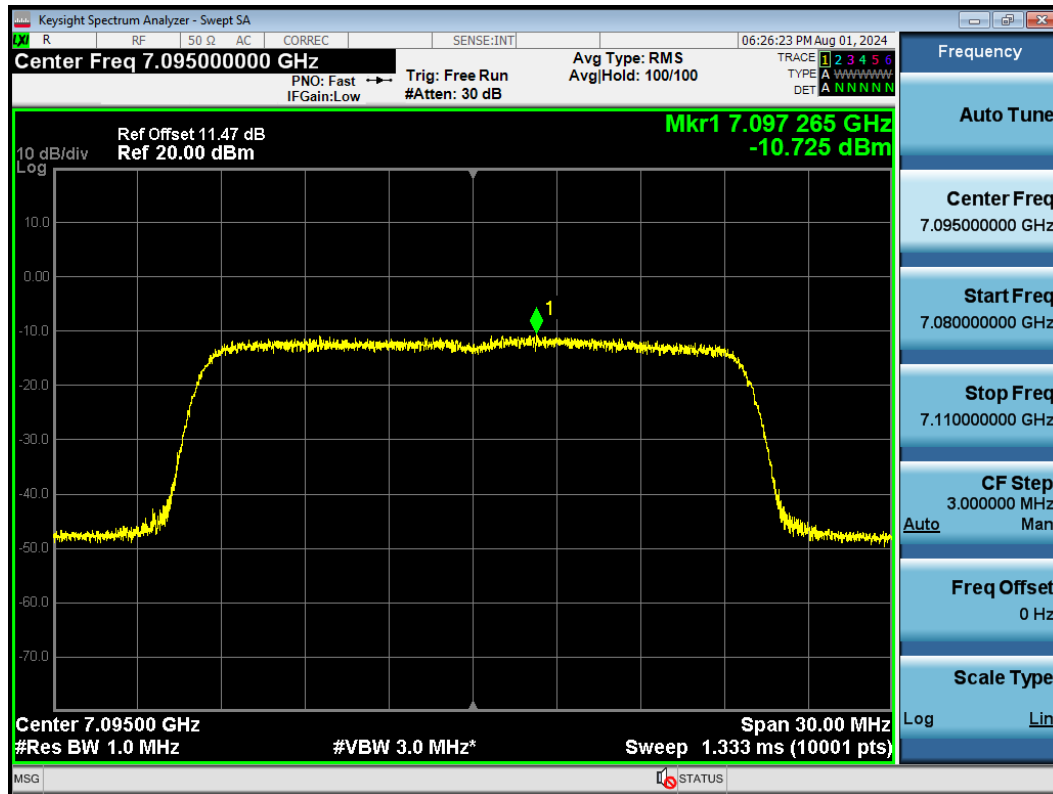
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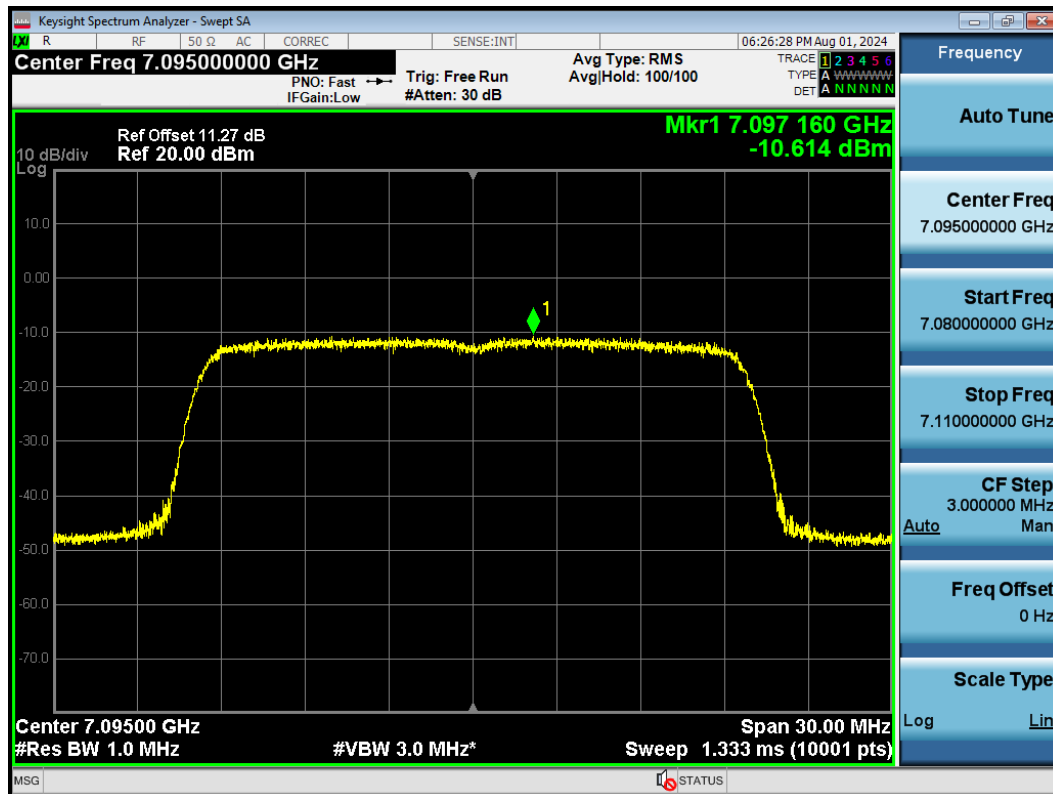
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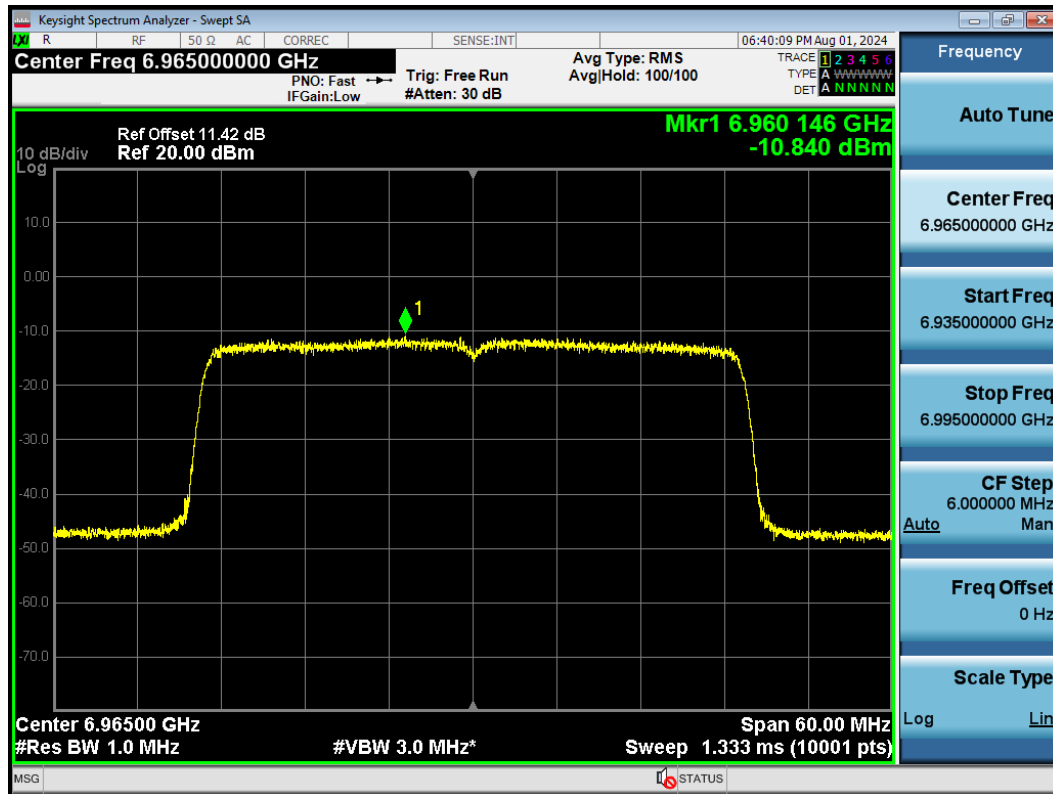
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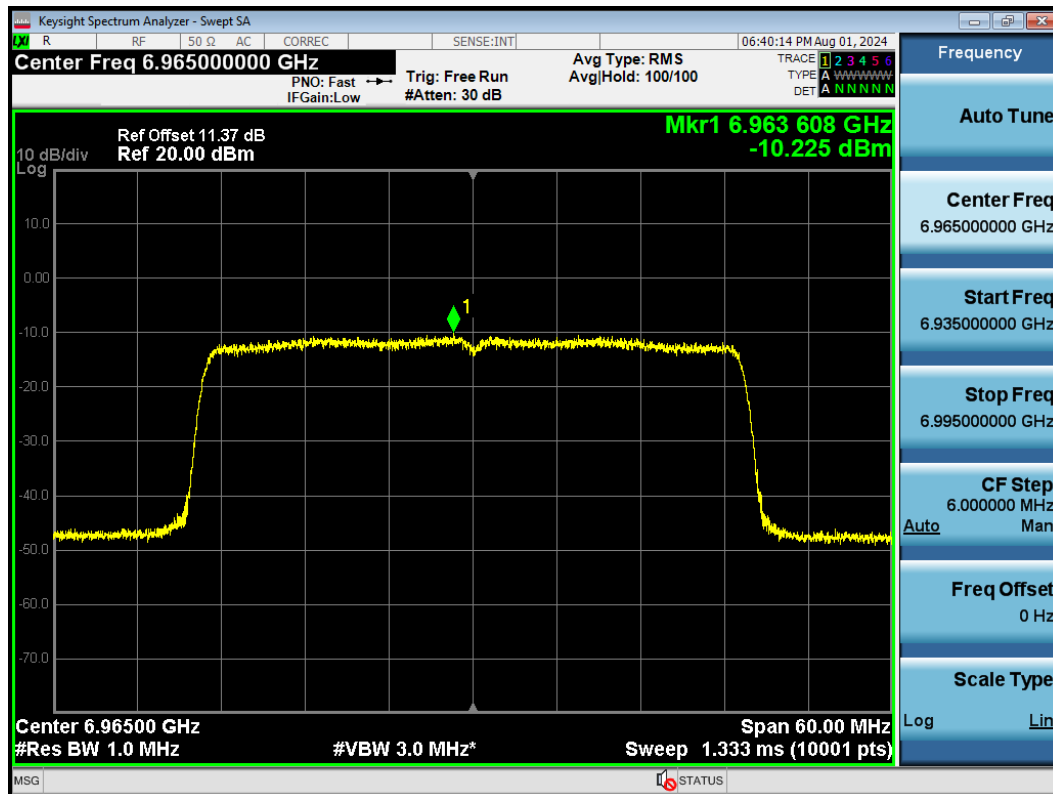
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PSD 802.11ax HE40 6965MHz Ant1



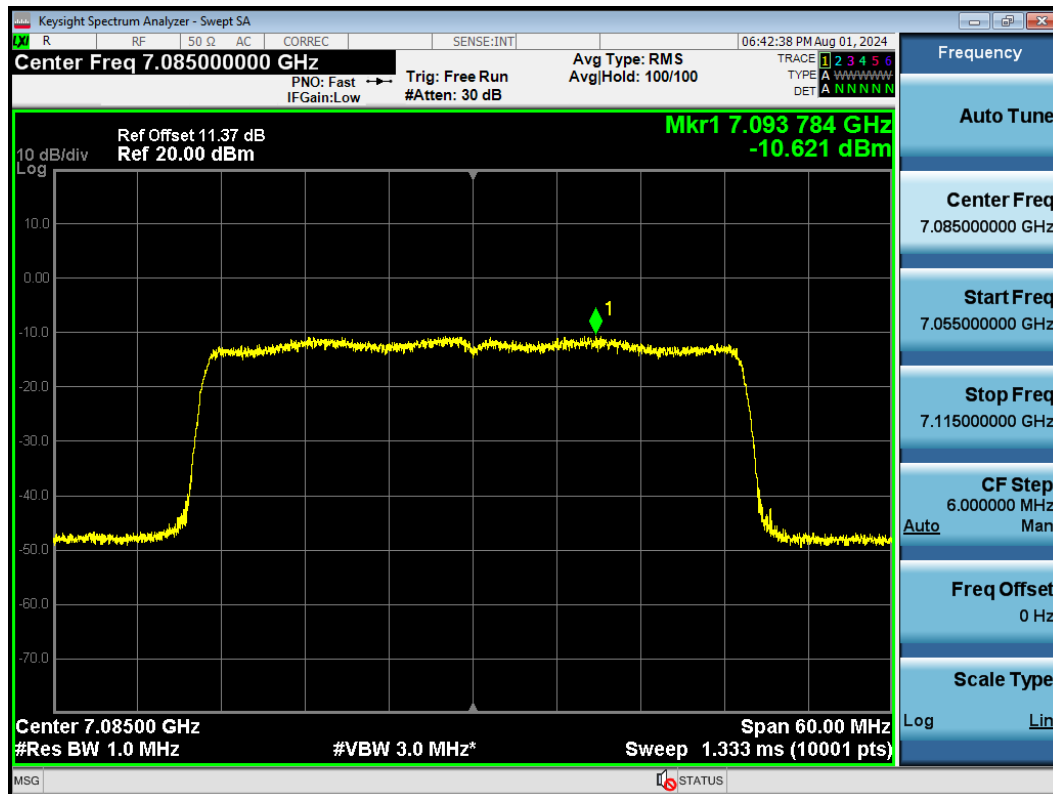
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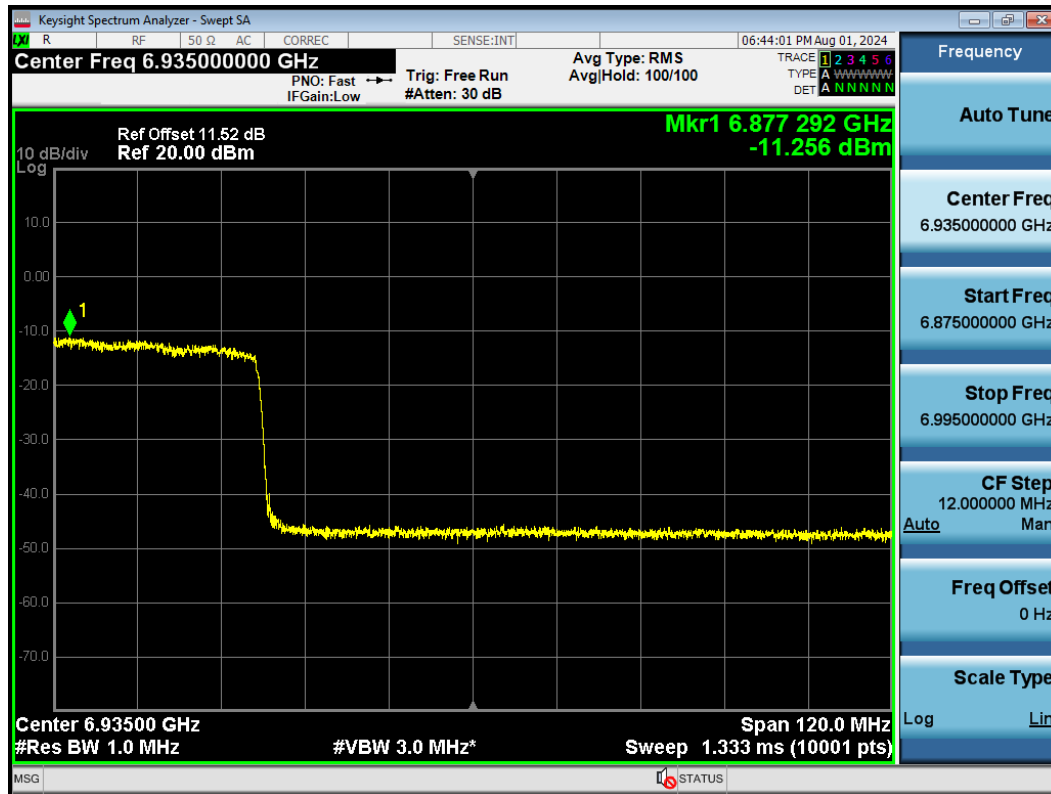
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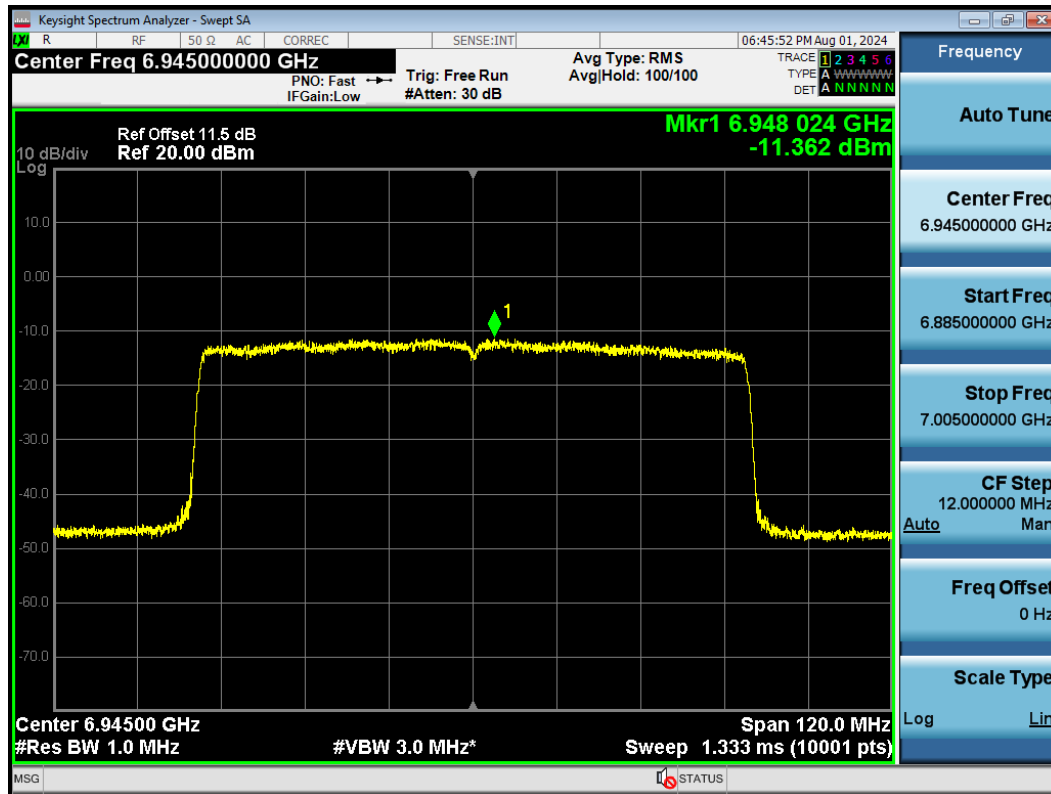
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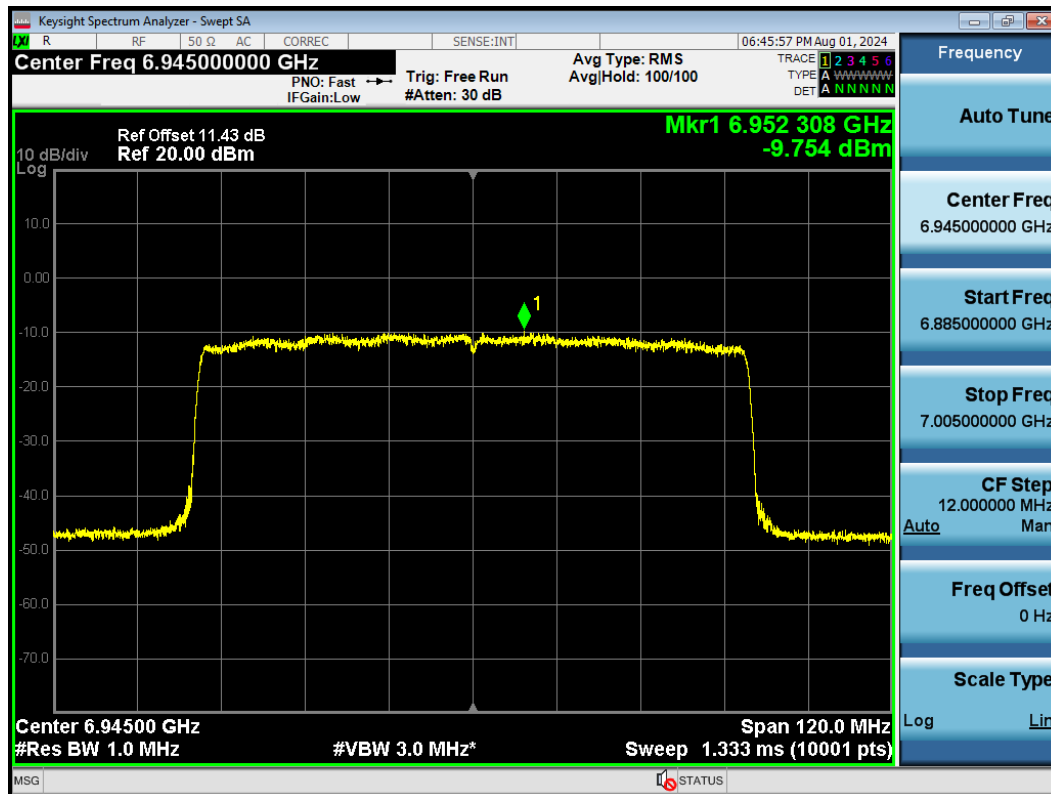
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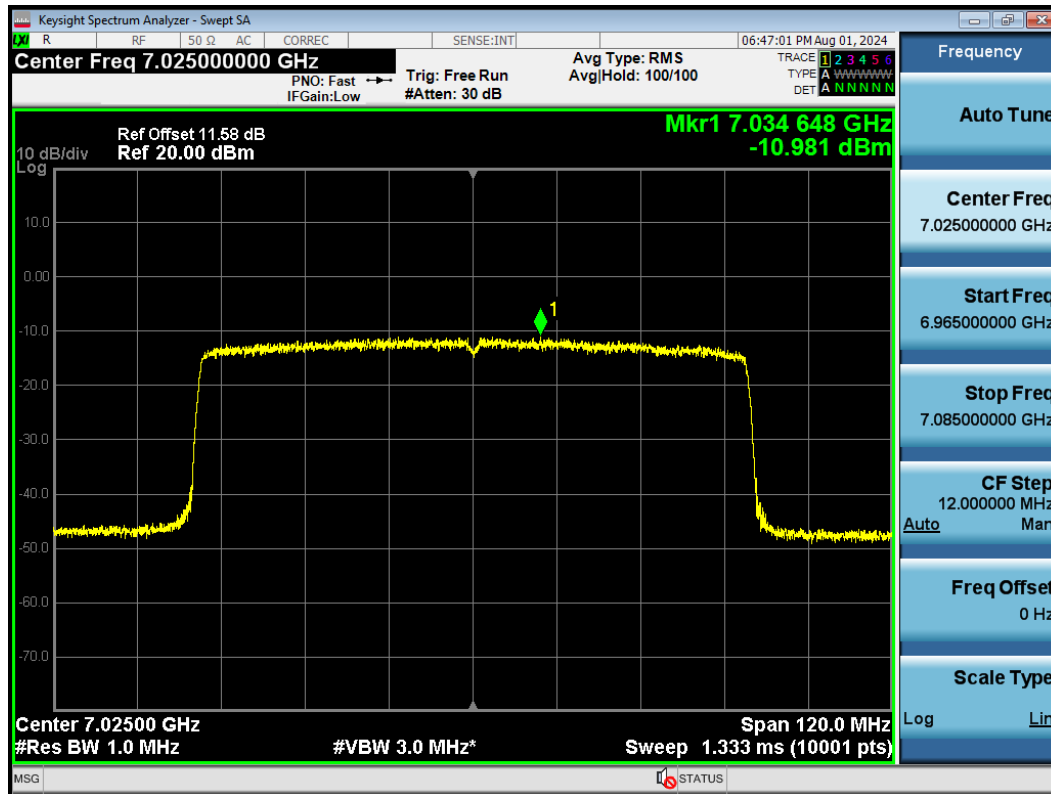
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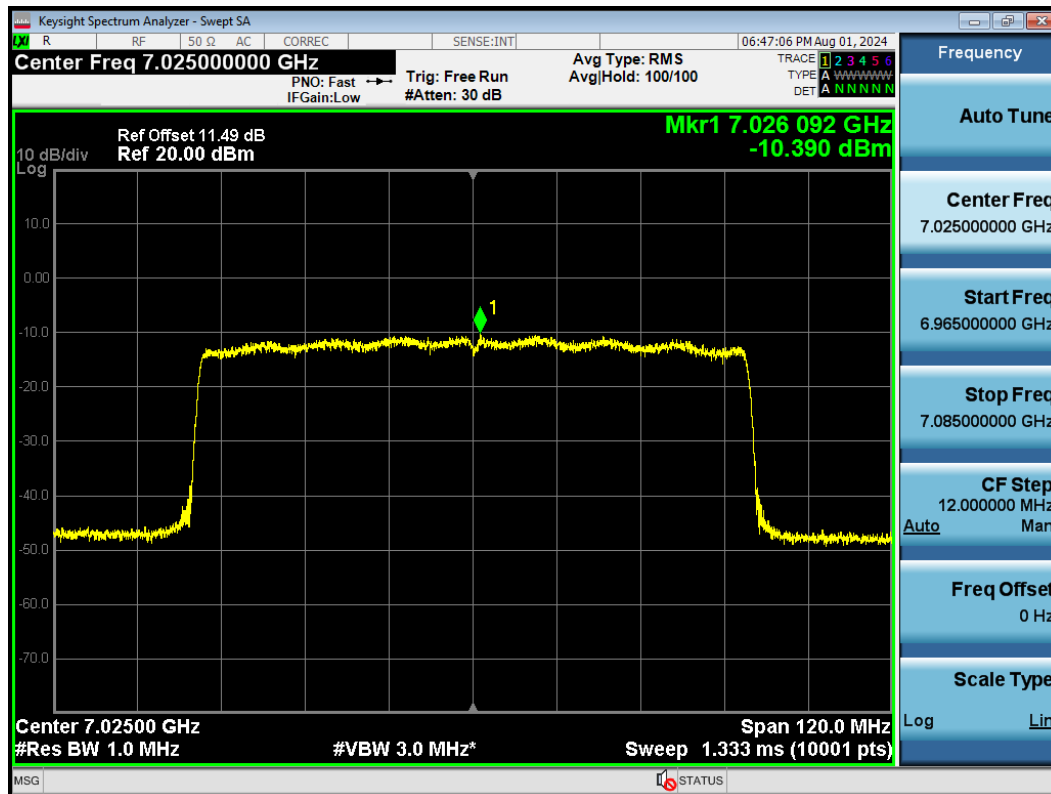
PSD 802.11ax HE80 6945MHz Ant2



PSD 802.11ax HE80 7025MHz Ant1



PSD 802.11ax HE80 7025MHz Ant2



5.4. Frequency Stability

Ambient Condition

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

Method of Measurement

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

Limit

The frequency of the carrier signal shall be maintained within band of operation.

Measurement Uncertainty

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

Test Results

Voltage (V)	Temperature (°C)	Test Results			
		6175 MHz			
		1min	2min	5min	10min
3.85	-30	6175.002761	6174.993189	6174.989018	6174.983770
3.85	-20	6175.006053	6175.001528	6174.994950	6174.988774
3.85	-10	6175.009484	6175.000780	6174.991718	6174.980906
3.85	0	6175.008869	6174.998128	6174.987587	6174.973871
3.85	10	6175.003357	6174.990465	6174.982805	6174.973142
3.85	20	6175.001866	6174.988880	6174.981020	6174.973126
3.85	30	6174.993407	6174.979953	6174.977014	6174.966876
3.85	40	6174.985584	6174.971527	6174.972021	6174.963702
3.85	50	6174.979607	6174.967184	6174.970666	6174.959163
3.2	20	6174.974626	6174.965848	6174.967235	6174.957041
4.4	20	6174.966098	6174.964351	6174.960173	6174.951437
MHz		-0.033902	-0.035649	-0.039827	-0.048563
PPM		-5.490202	-5.773117	-6.449717	-7.864453

Voltage (V)	Temperature (°C)	Test Results			
		6475 MHz			
		1min	2min	5min	10min
3.85	-30	6475.001491	6474.998074	6474.993132	6474.988374
3.85	-20	6475.009823	6475.008407	6474.999168	6474.995602
3.85	-10	6475.005638	6475.001894	6474.990057	6474.989400
3.85	0	6474.999197	6474.998350	6474.983302	6474.982104
3.85	10	6474.991540	6474.990971	6474.981277	6474.972959
3.85	20	6474.991515	6474.982358	6474.980123	6474.963201
3.85	30	6474.986131	6474.976025	6474.975283	6474.957520
3.85	40	6474.977002	6474.974833	6474.972289	6474.956204
3.85	50	6474.975886	6474.965983	6474.963929	6474.947254
3.2	20	6474.972680	6474.964549	6474.956662	6474.938328
4.4	20	6474.972301	6474.956229	6474.949456	6474.933278
MHz		-0.027699	-0.043771	-0.050544	-0.066722
PPM		-4.277838	-6.760000	-7.806023	-10.304556

Voltage (V)	Temperature (°C)	Test Results			
		6695 MHz			
		1min	2min	5min	10min
3.85	-30	6694.997943	6694.996545	6694.992756	6694.986620
3.85	-20	6694.999152	6694.992666	6694.988102	6694.982131
3.85	-10	6694.996551	6694.986713	6694.984344	6694.977172
3.85	0	6694.991324	6694.985571	6694.976114	6694.971731
3.85	10	6694.986310	6694.978153	6694.967133	6694.969865
3.85	20	6694.980247	6694.972949	6694.963165	6694.965798
3.85	30	6694.979566	6694.969177	6694.962802	6694.959344
3.85	40	6694.973535	6694.968919	6694.961813	6694.954888
3.85	50	6694.970879	6694.968210	6694.954262	6694.953641
3.2	20	6694.967790	6694.966662	6694.945173	6694.949269
4.4	20	6694.959775	6694.957910	6694.943238	6694.940652
MHz		-0.040225	-0.042090	-0.056762	-0.059348
PPM		-6.008215	-6.286781	-8.478267	-8.864526

Voltage (V)	Temperature (°C)	Test Results			
		6995 MHz			
		1min	2min	5min	10min
3.85	-30	6994.990818	6994.984014	6994.979092	6994.972101
3.85	-20	6995.000741	6995.000383	6994.990459	6994.989401
3.85	-10	6994.999278	6994.999668	6994.981029	6994.983556
3.85	0	6994.989563	6994.995503	6994.980130	6994.975968
3.85	10	6994.982389	6994.993368	6994.972517	6994.974385
3.85	20	6994.977558	6994.988129	6994.965087	6994.972113
3.85	30	6994.976240	6994.984402	6994.964939	6994.969681
3.85	40	6994.973835	6994.978689	6994.963384	6994.965231
3.85	50	6994.966175	6994.972474	6994.954539	6994.961773
3.2	20	6994.961041	6994.970605	6994.948861	6994.953743
4.4	20	6994.953688	6994.970169	6994.942324	6994.951387
MHz		-0.046312	-0.029831	-0.057676	-0.048613
PPM		-6.620729	-4.264618	-8.245318	-6.949678

5.5. In-Band Emission (Mask)

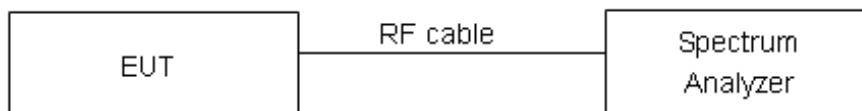
Ambient Condition

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

Method of Measurement

1. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
2. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10. (Determine the channel edge.)
3. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
4. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
5. Adjust the span to encompass the entire mask as necessary and clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

Test Setup



Limits

Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	t one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

*1: The power spectral density must be suppressed by “x” dB

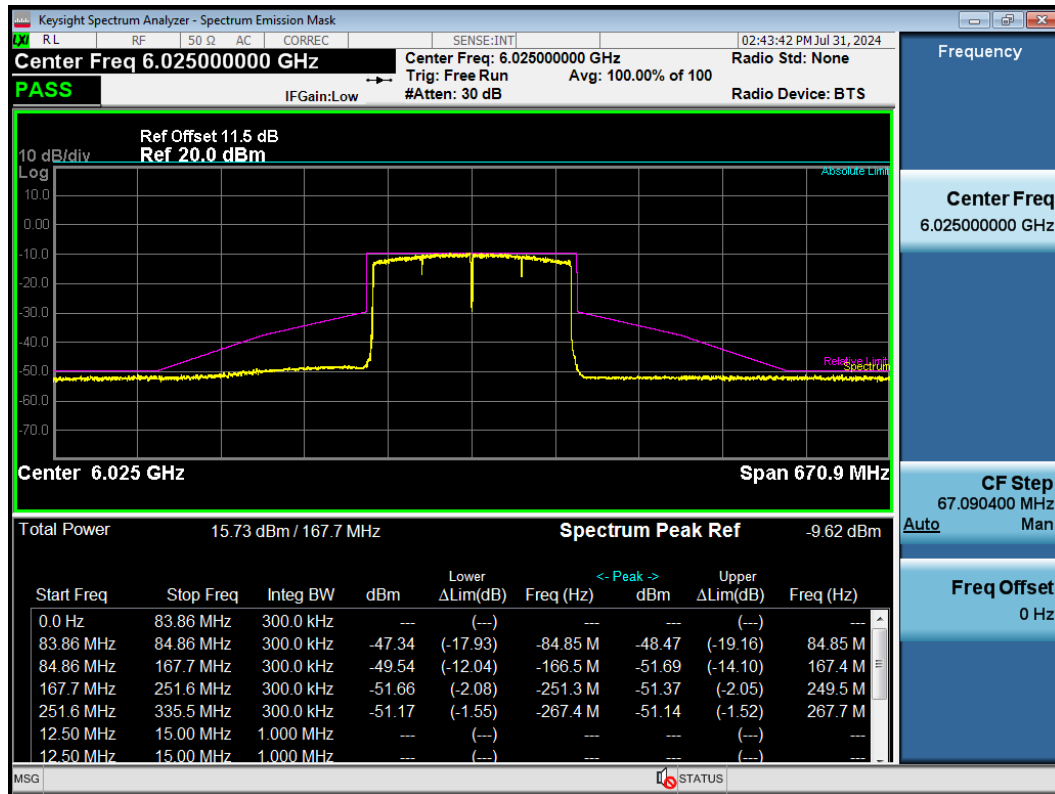
*2: At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

3: At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

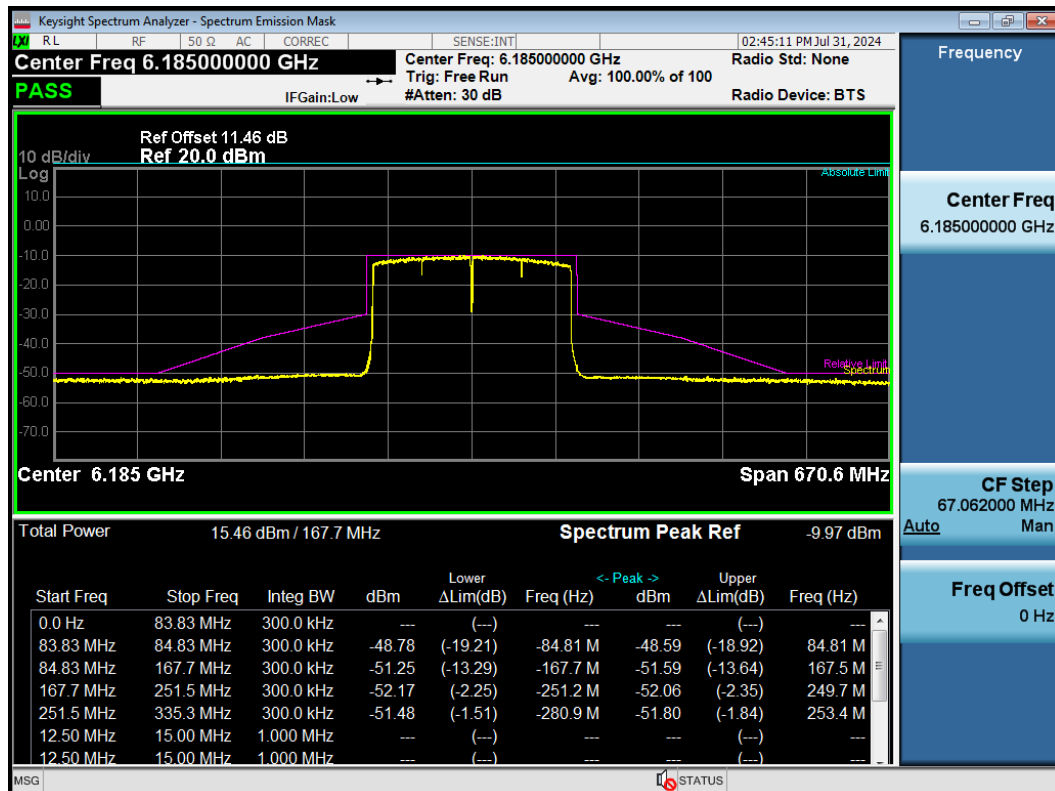
Test Results:

U-NII-5

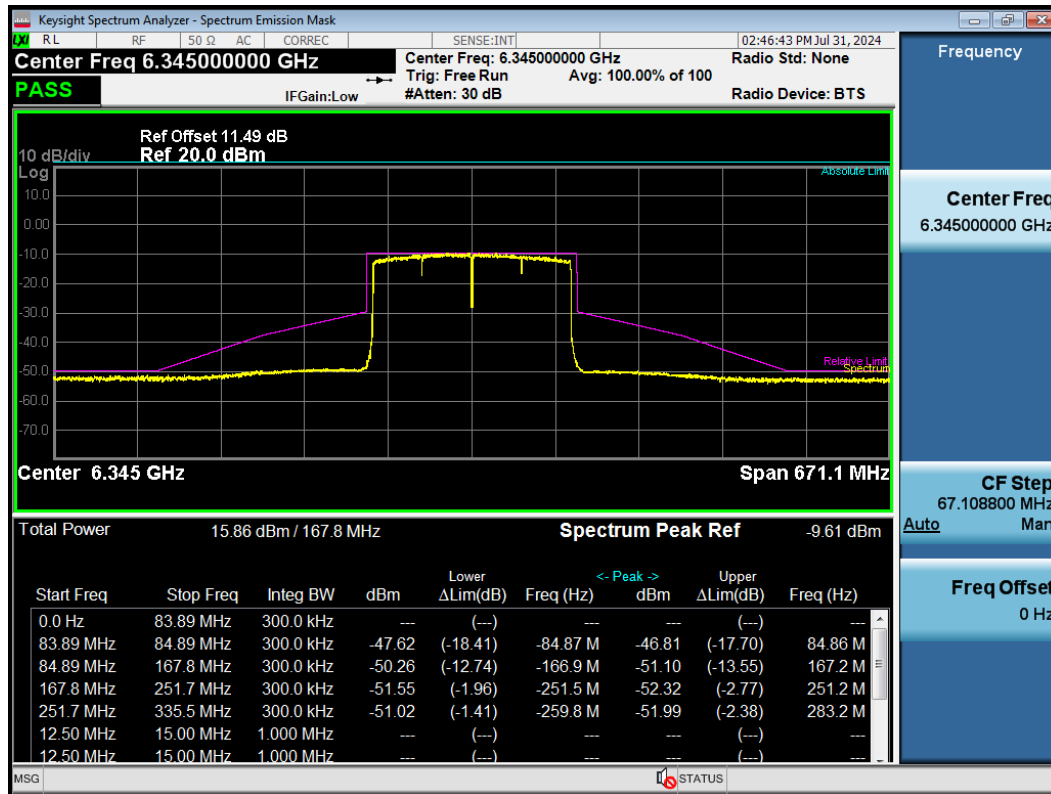
Power spectral mask 802.11ax HE160 6025MHz



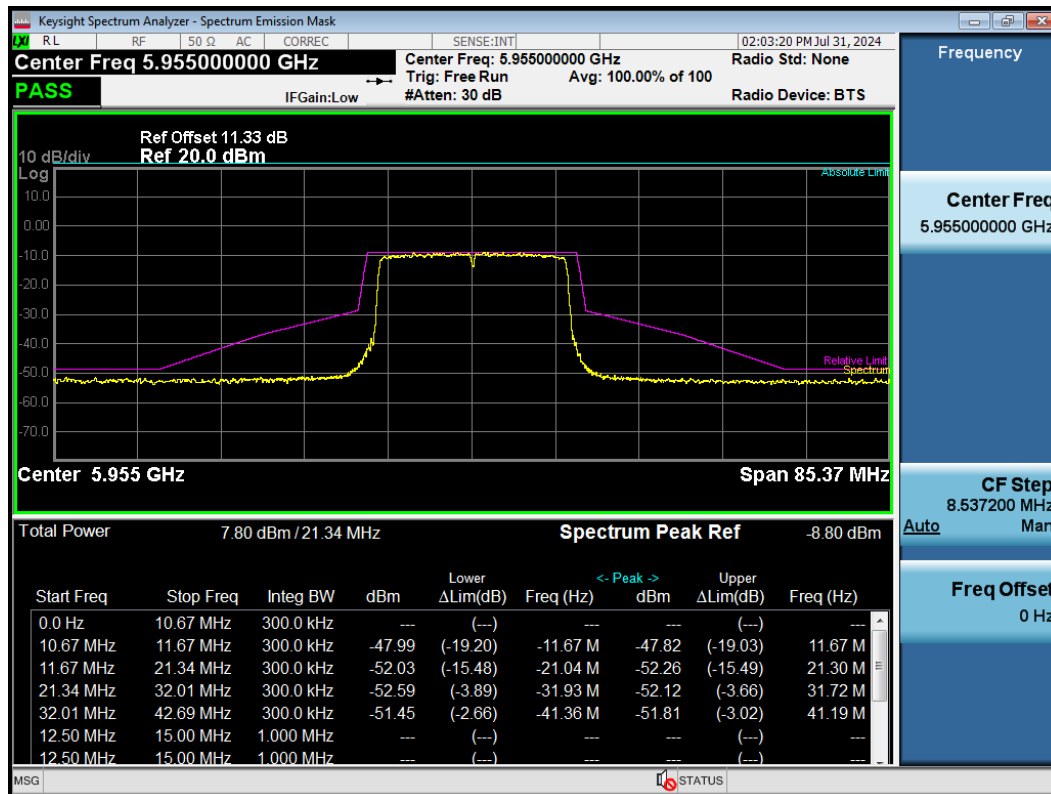
Power spectral mask 802.11ax HE160 6185MHz



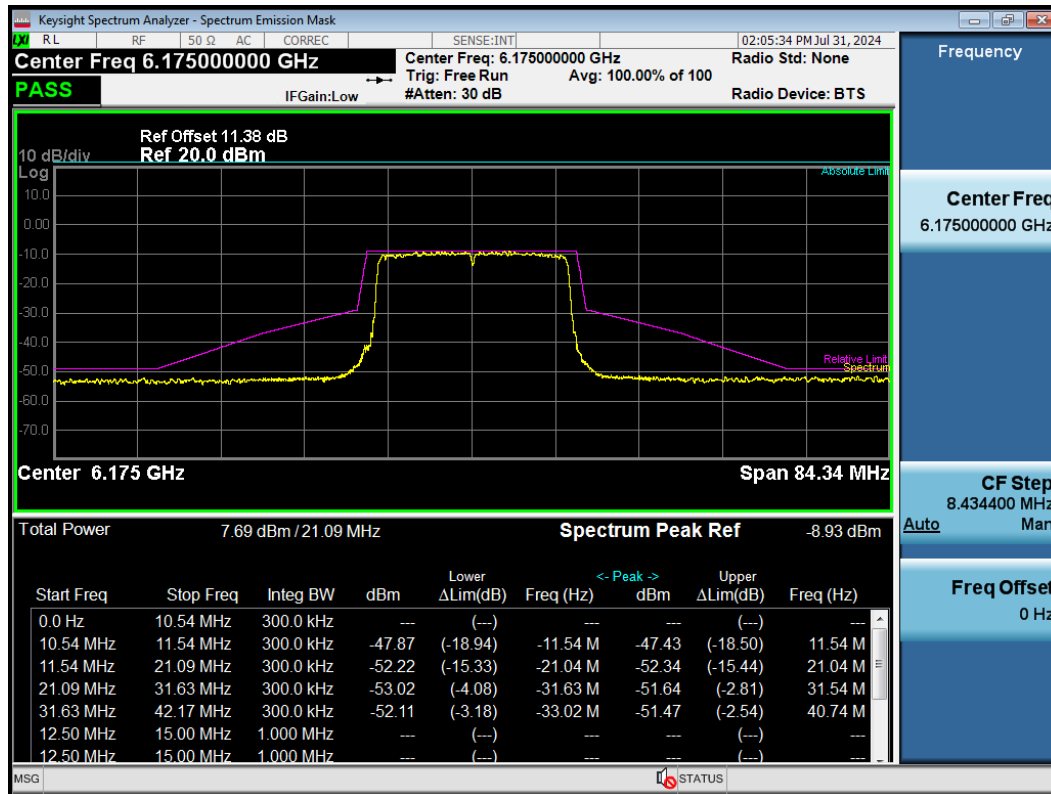
Power spectral mask 802.11ax HE160 6345MHz



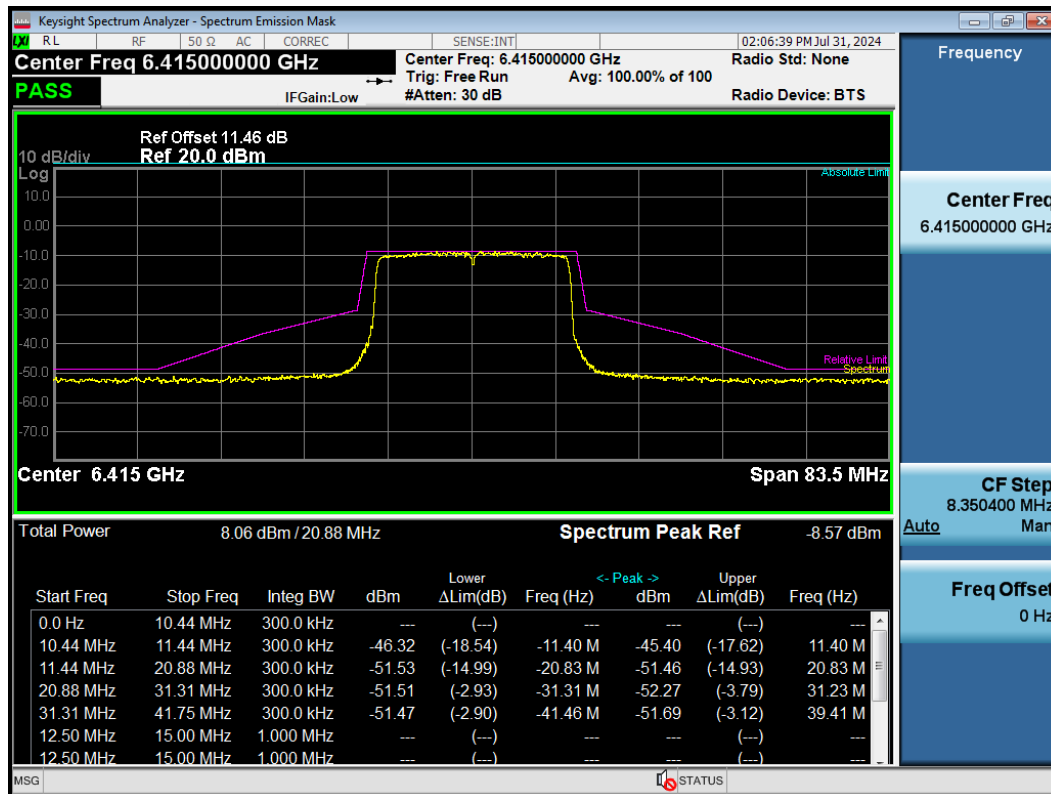
Power spectral mask 802.11ax HE20 5955MHz



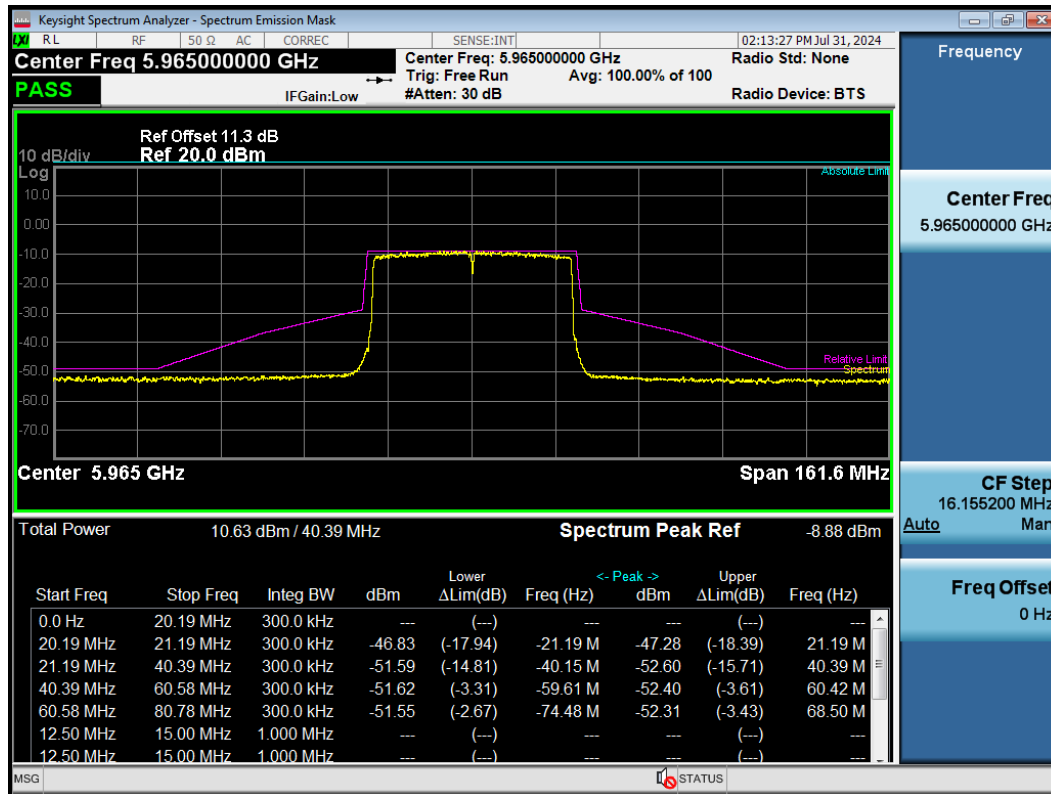
Power spectral mask 802.11ax HE20 6175MHz



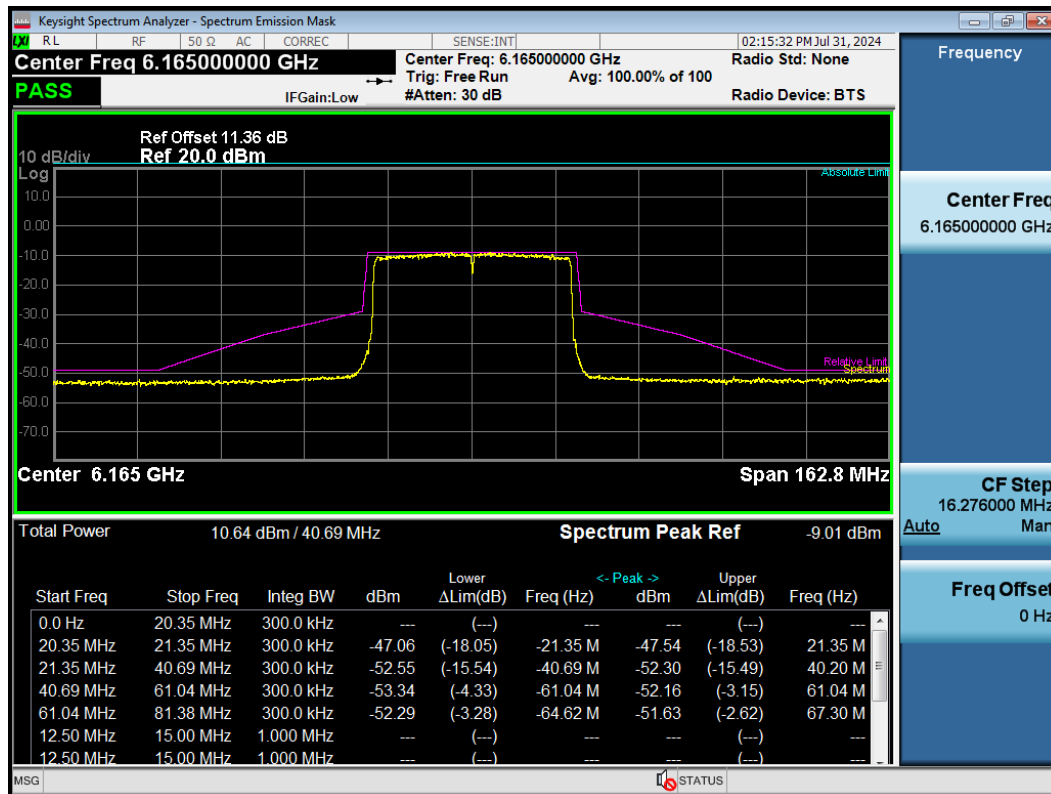
Power spectral mask 802.11ax HE20 6415MHz



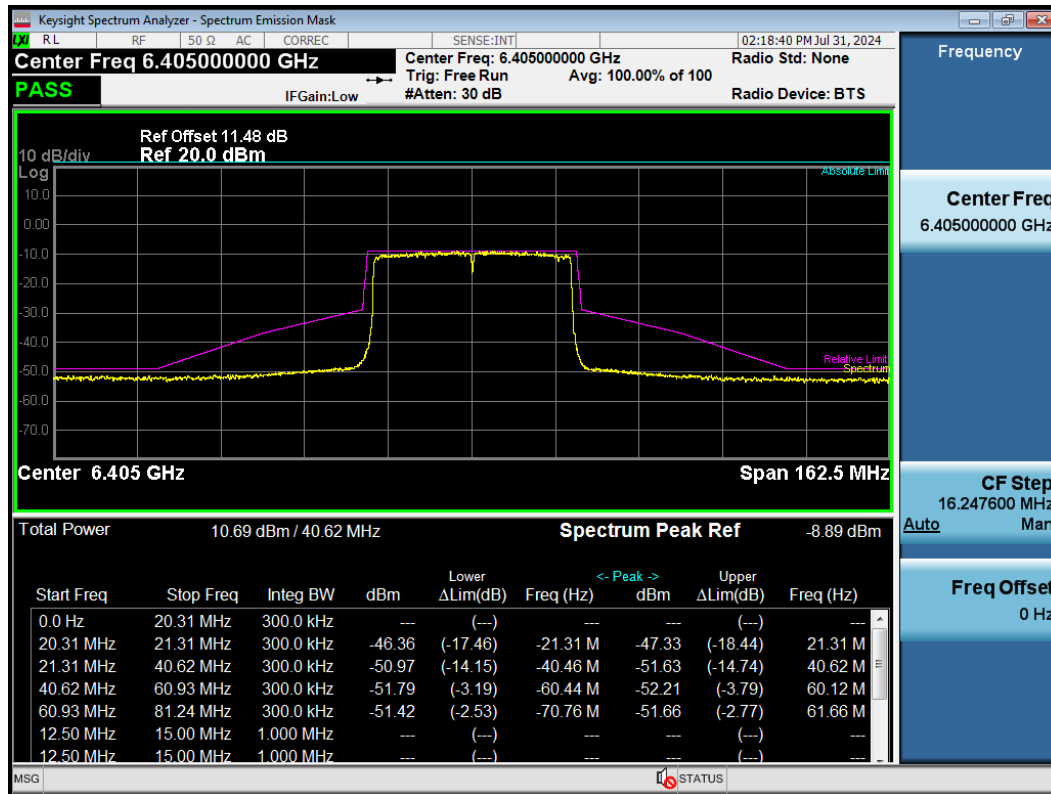
Power spectral mask 802.11ax HE40 5965MHz



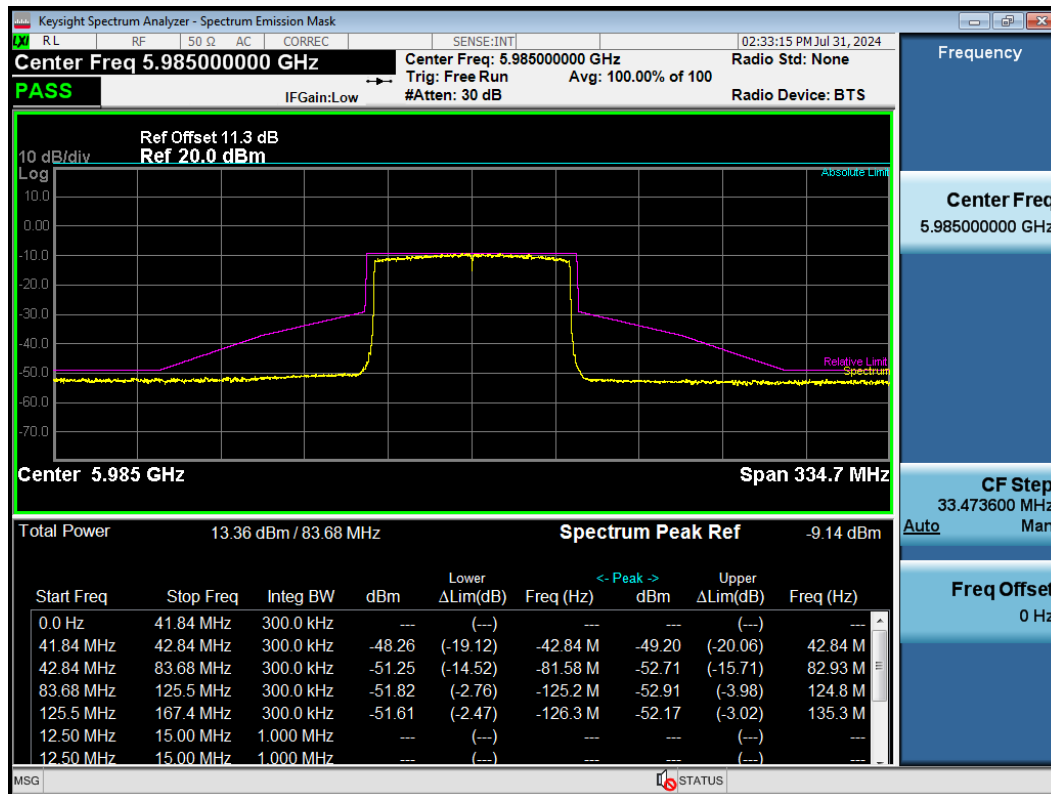
Power spectral mask 802.11ax HE40 6165MHz



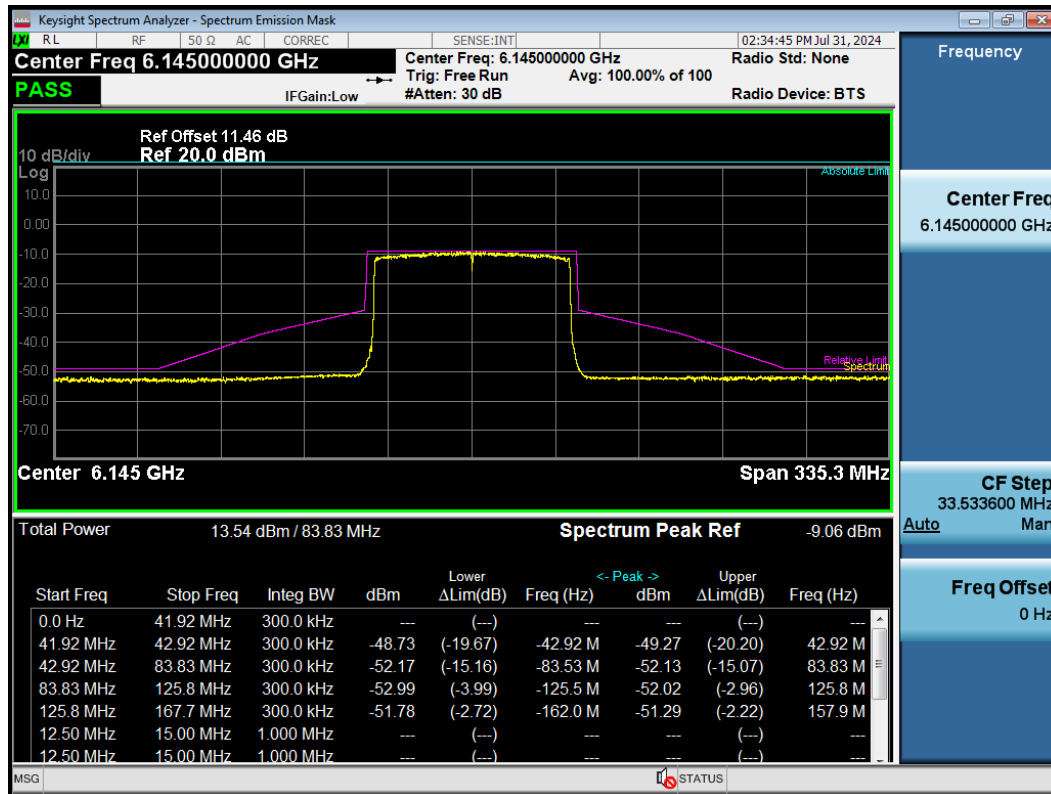
Power spectral mask 802.11ax HE40 6405MHz



Power spectral mask 802.11ax HE80 5985MHz



Power spectral mask 802.11ax HE80 6145MHz



Power spectral mask 802.11ax HE80 6385MHz

