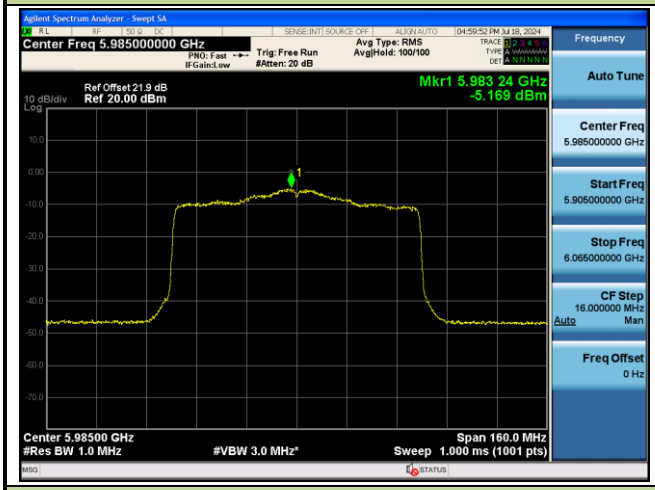
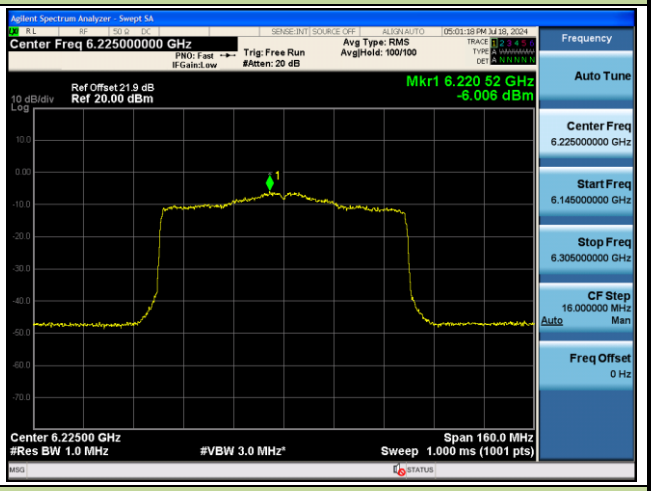
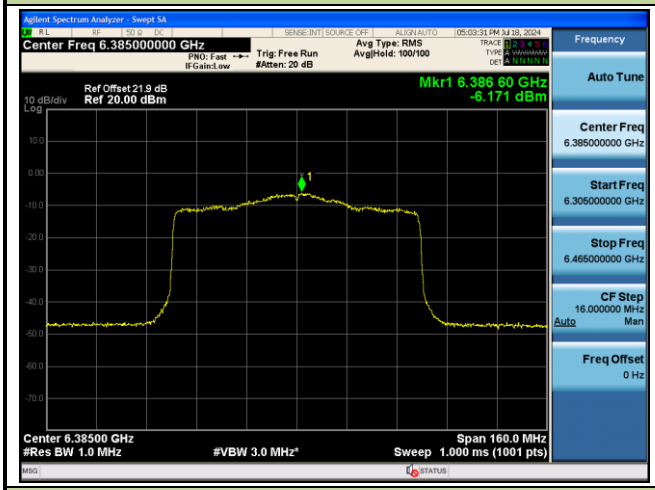
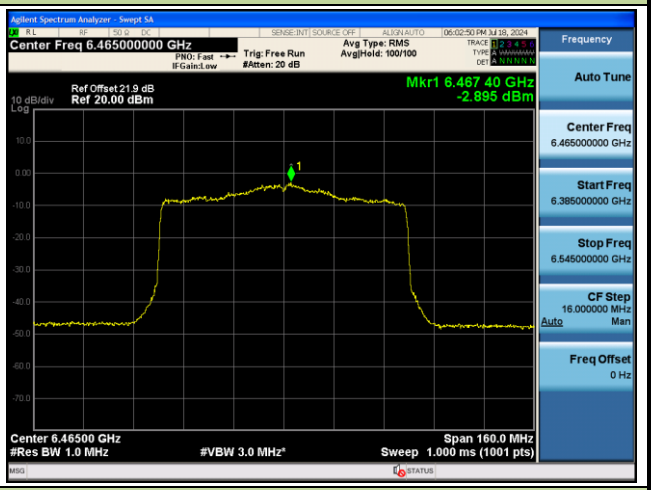
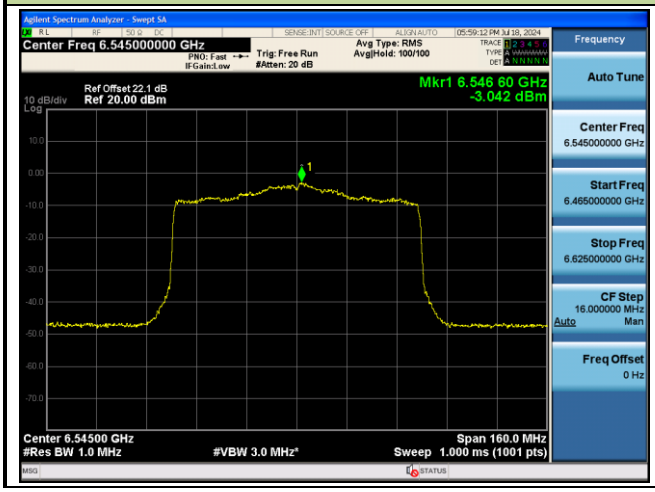
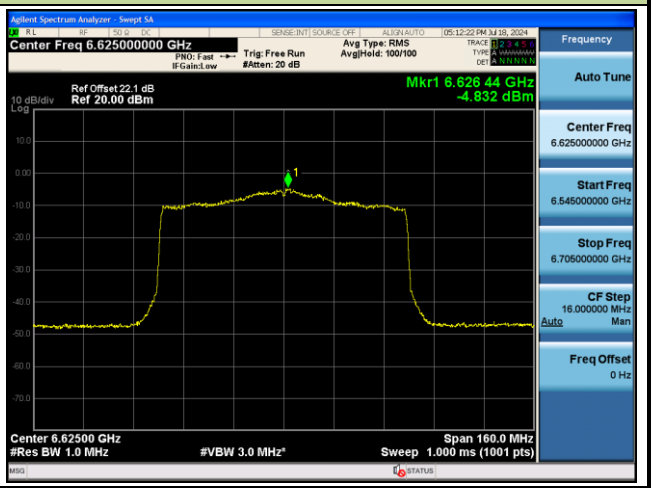
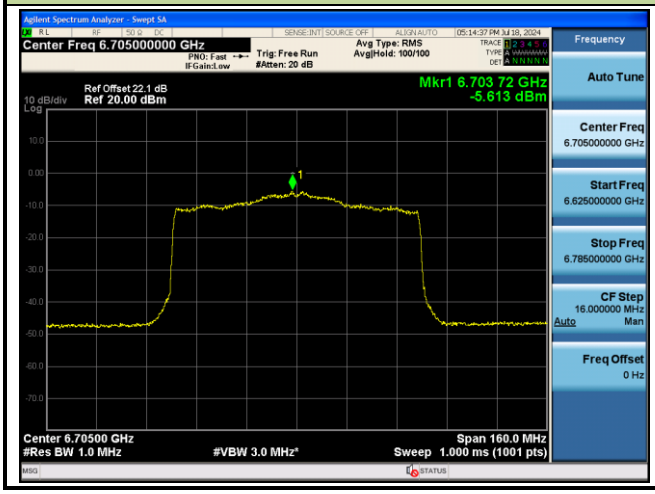
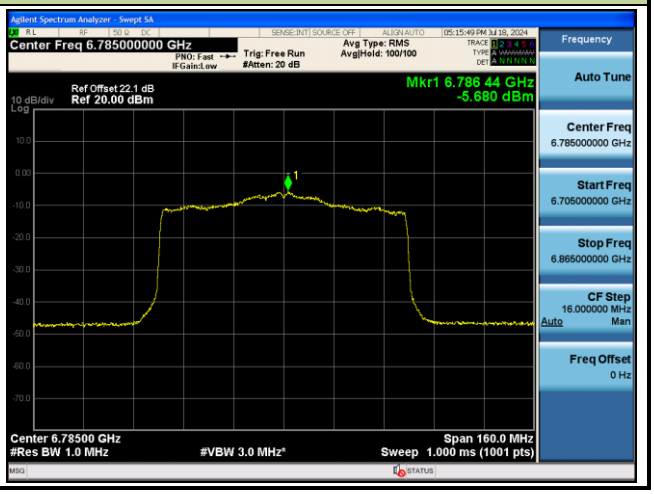
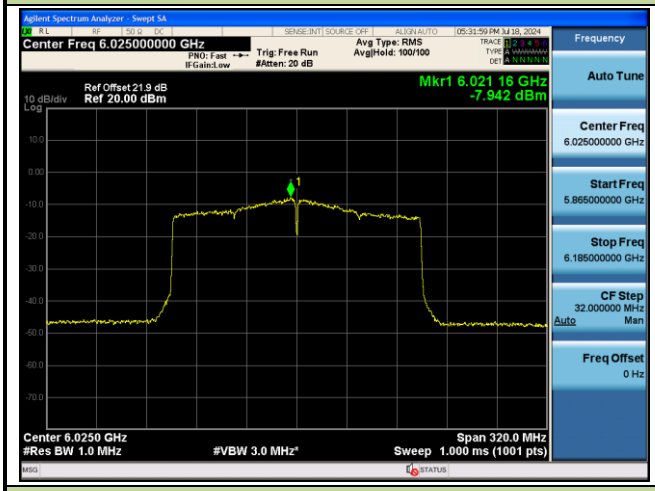
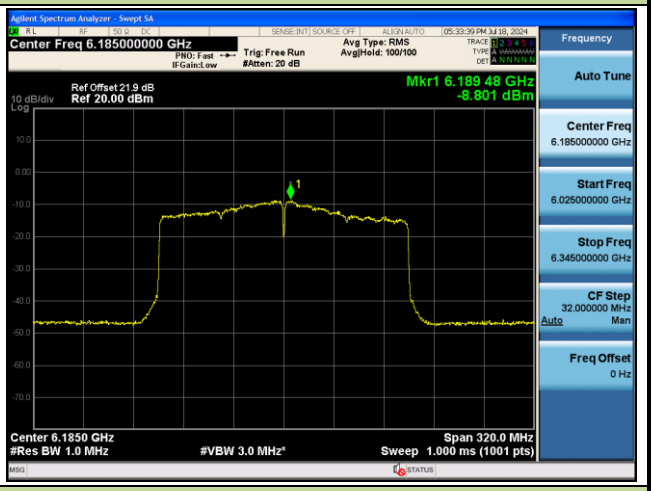
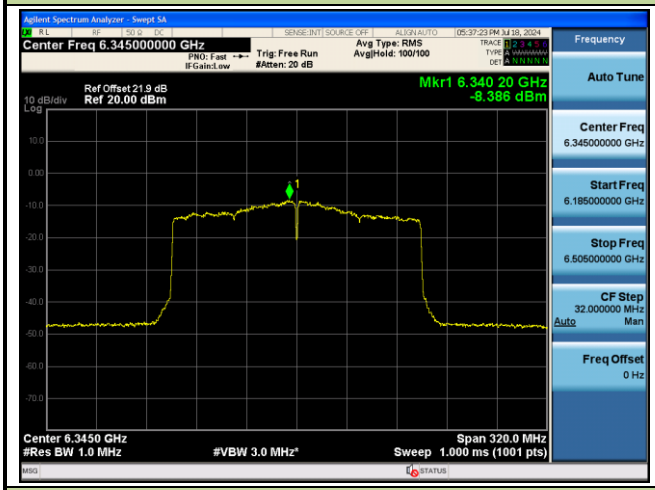
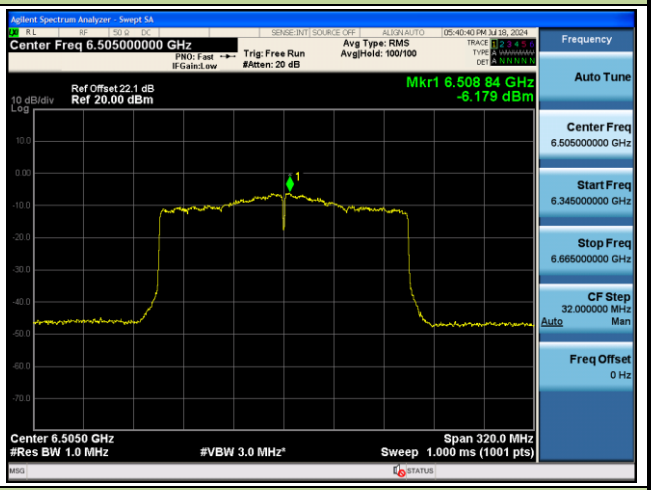
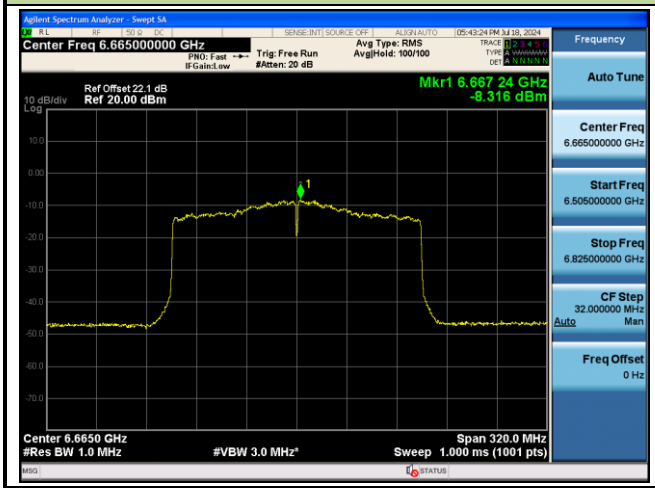
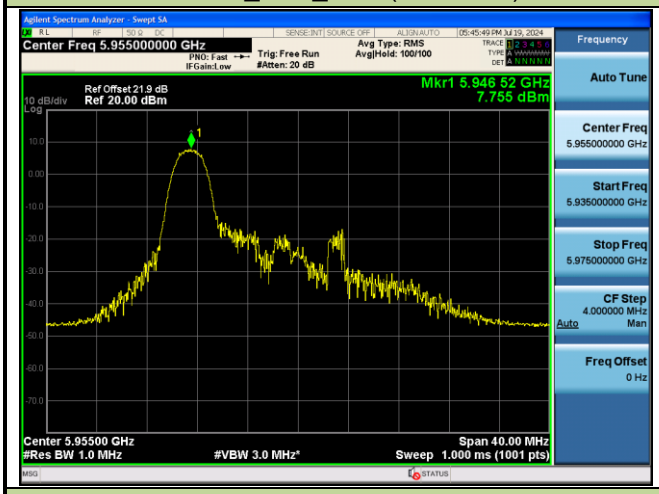
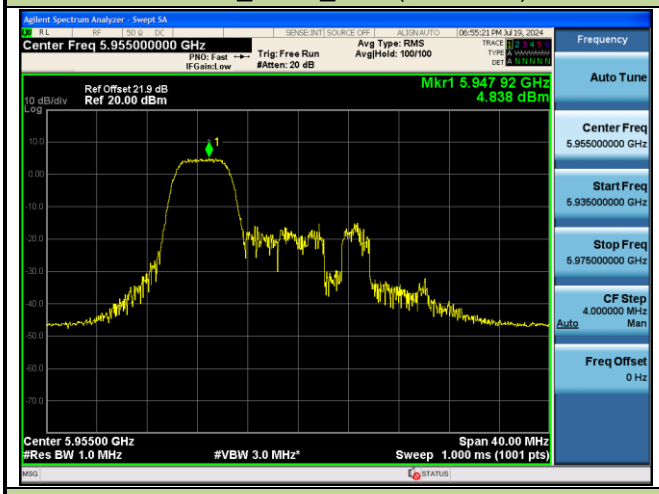
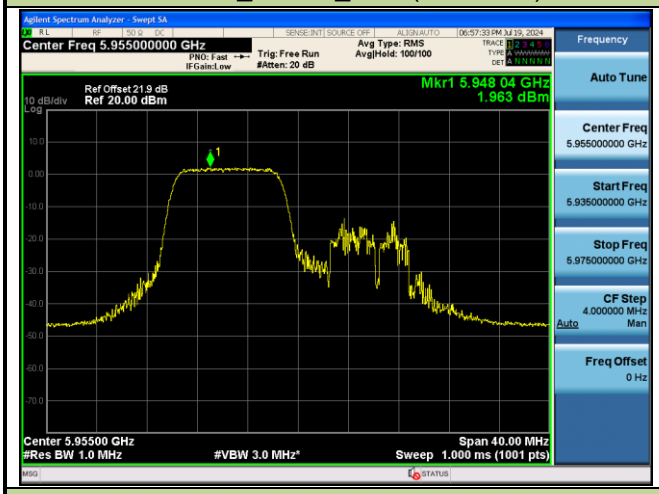
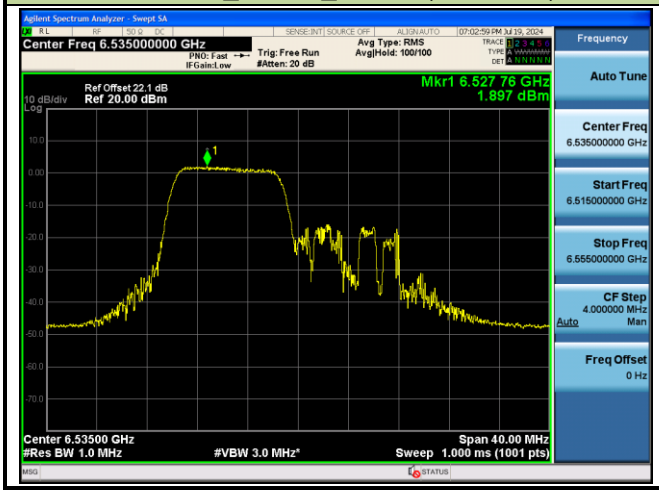
802.11ax-HE80 Power Spectral Density – Ant 1	
Channel 7 (5985MHz)	Channel 55 (6225MHz)
	
Channel 87 (6385MHz)	Channel 103 (6465MHz)
	
Channel 119 (6545MHz)	Channel 135 (6625MHz)
	

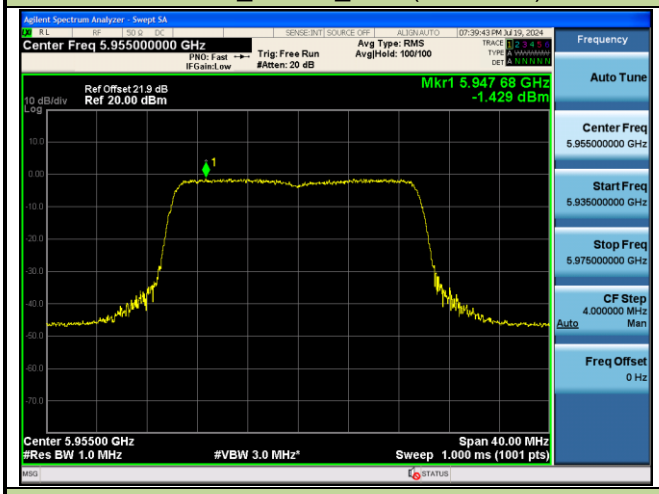
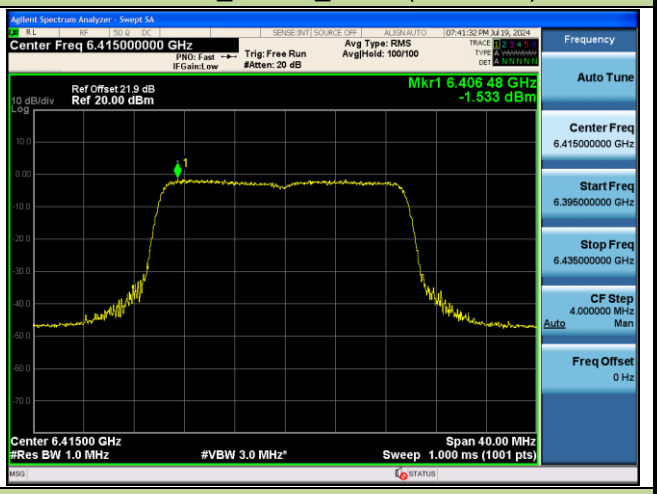
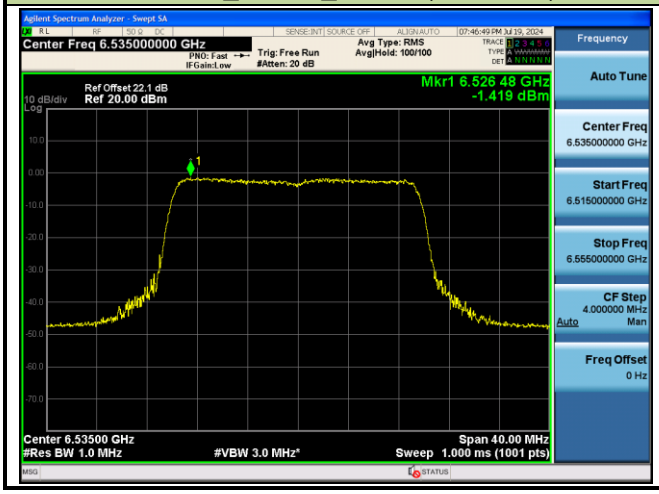
Channel 151 (6705MHz)	Channel 167 (6785MHz)
	

802.11ax-HE160 Power Spectral Density – Ant 1	
Channel 15 (6025MHz)	Channel 47 (6185MHz)
	
Channel 79 (6345MHz)	Channel 111 (6505MHz)
	
Channel 143 (6665MHz)	
	

802.11ax-HE20 Power Spectral Density - Ant 1	
26 Tone_RU0_CH1 (5955MHz)	26 Tone_RU8_CH93 (6415MHz)
	
26 Tone_RU0_CH117 (6535MHz)	26 Tone_RU8_CH181 (6855MHz)
	

802.11ax-HE20 Power Spectral Density - Ant 1	
52 Tone_RU74_CH1 (5955MHz)	52 Tone_RU77_CH93 (6415MHz)
	
52 Tone_RU74_ CH117 (6535MHz)	52 Tone_RU77_ CH181 (6855MHz)
	

802.11ax-HE20 Power Spectral Density - Ant 1	
106 Tone_RU106_CH1 (5955MHz)	106 Tone_RU107_CH93 (6415MHz)
	
106 Tone_RU106_CH117 (6535MHz)	106 Tone_RU107_CH181 (6855MHz)
	

802.11ax-HE20 Power Spectral Density - Ant 1	
242 Tone_RU122_CH1 (5955MHz)	242 Tone_RU122_CH93 (6415MHz)
	
242 Tone_RU122_CH117 (6535MHz)	242 Tone_RU122_CH181 (6855MHz)
	

6.5. In-Band Emission Measurement

6.5.1. Test Limit

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.)

Suppressed by 28 dB at one channel bandwidth from the channel center.

Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

6.5.2. Test Procedure used

KDB 987594 D02v02r01- Section J

6.5.3. Test Setting

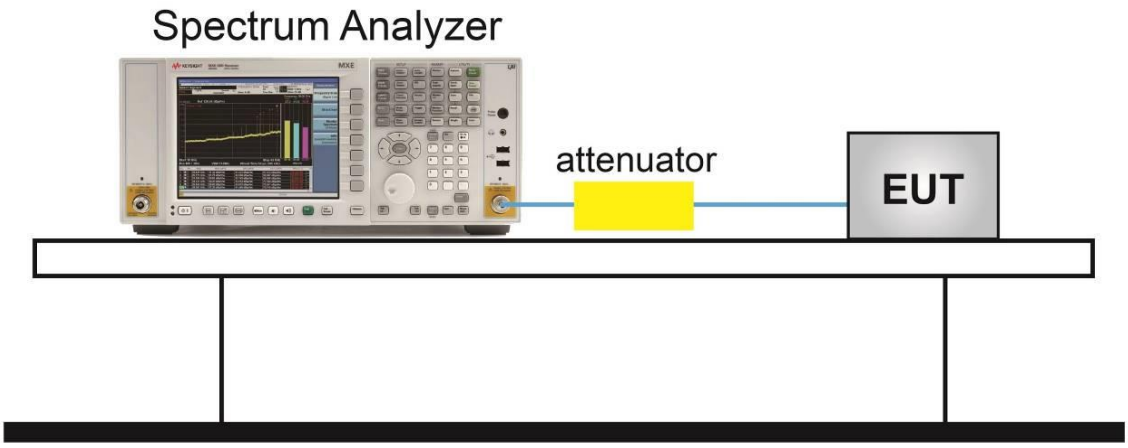
Emissions Mask Reference Level Measurement

1. Set the span to encompass the entire 26 dB EBW of the signal.
2. Set RBW = same RBW used for 26 dB EBW measurement.
3. Set VBW ≥ 3 X RBW.
4. Number of points in sweep ≥ [2 x span / RBW].
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

In-Band Emission

1. Using the measuring equipment limit line function, develop the emissions mask based on rule.
2. Adjust the span to encompass the entire mask as necessary.
3. Clear trace.
4. Trace average at least 100 traces in power averaging (rms) mode.
5. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

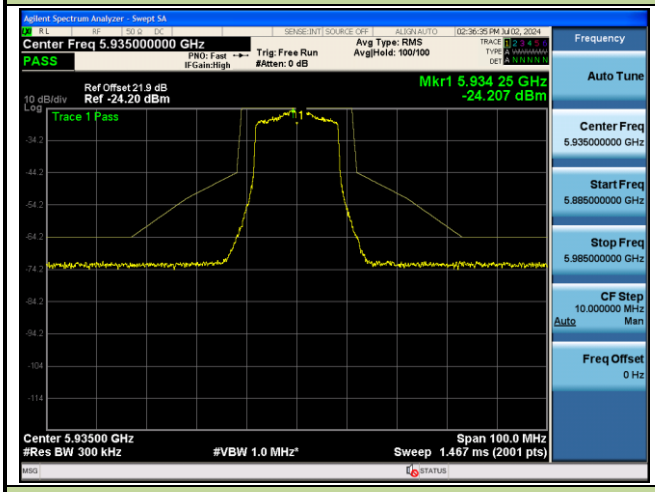
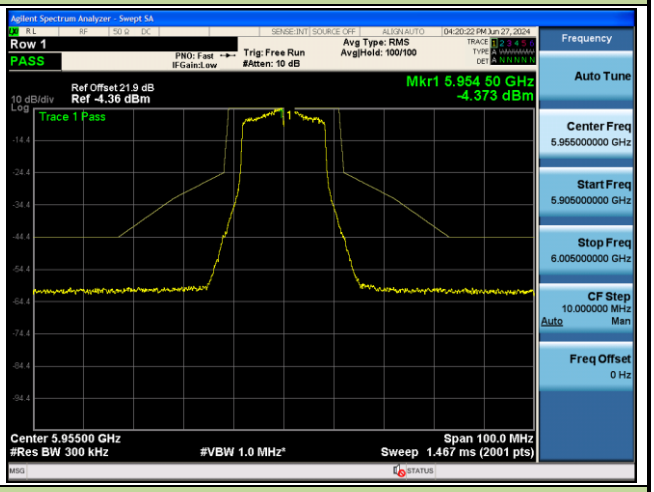
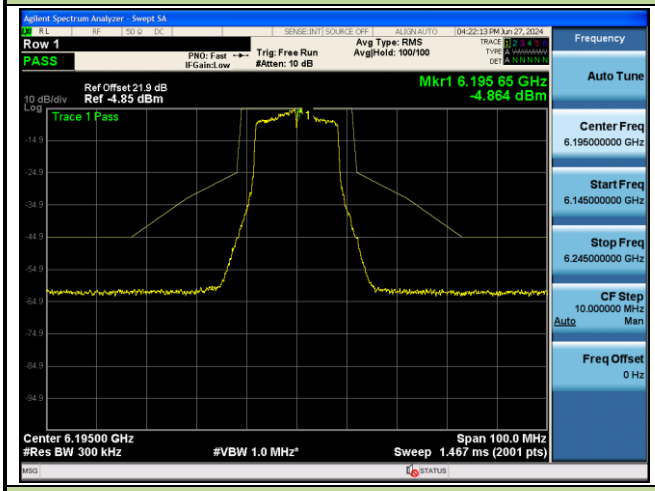
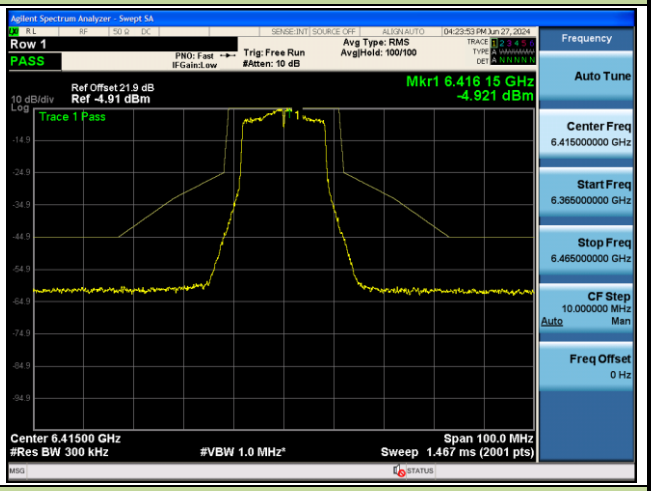
6.5.4. Test Setup

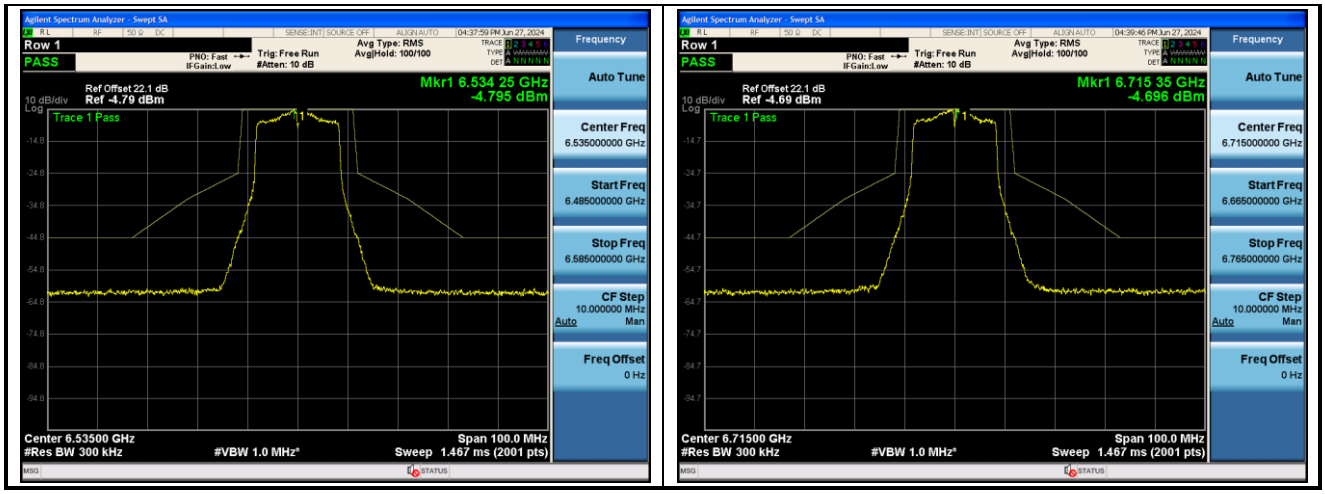


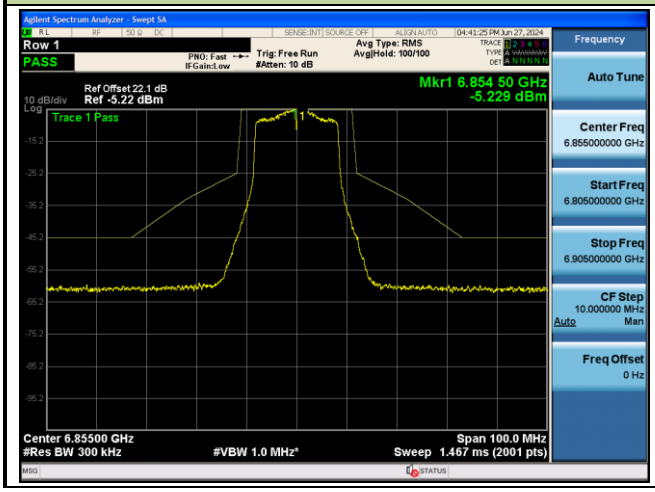
6.5.5. Test Result

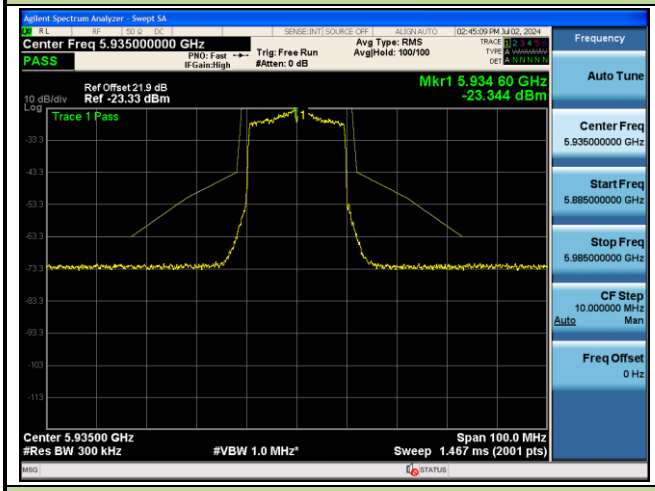
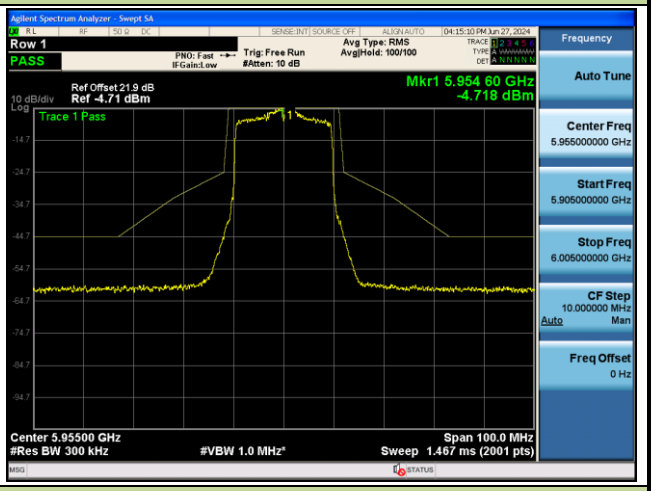
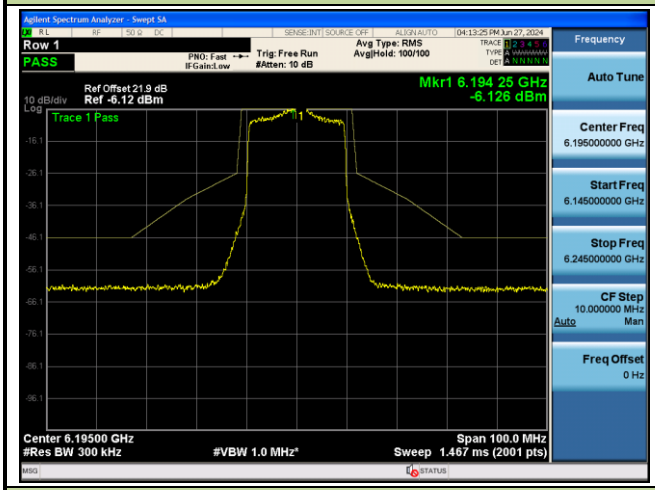
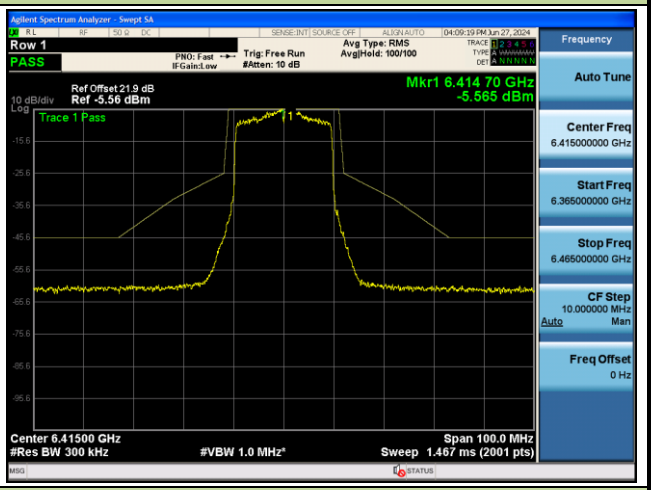
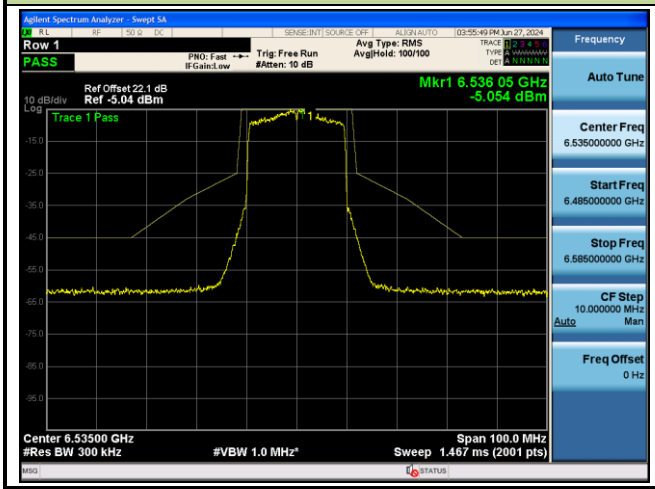
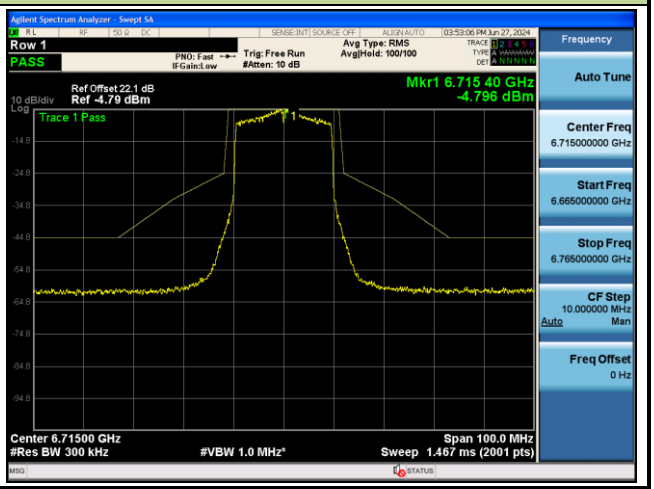
Test Site	SR6	Test Engineer	Owen
Test Date	2024/6/24~2024/7/2		

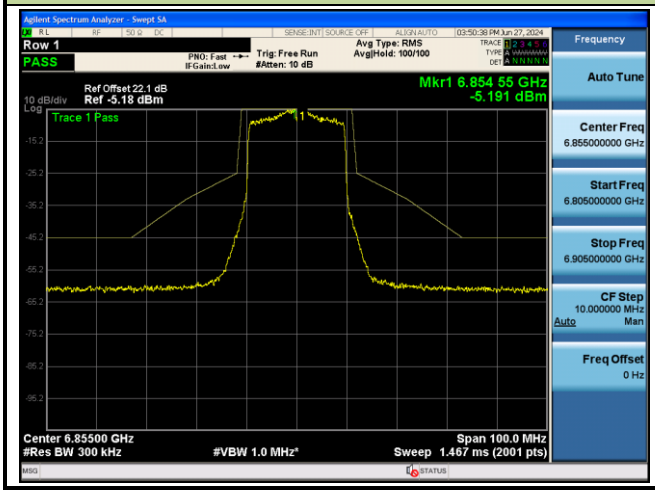
Client Standard Power

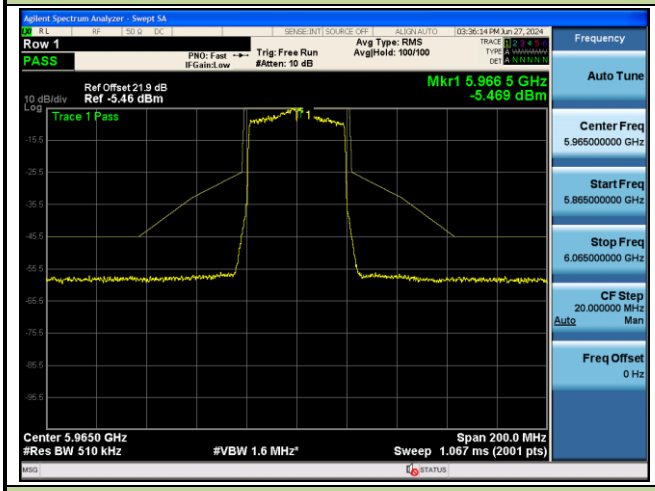
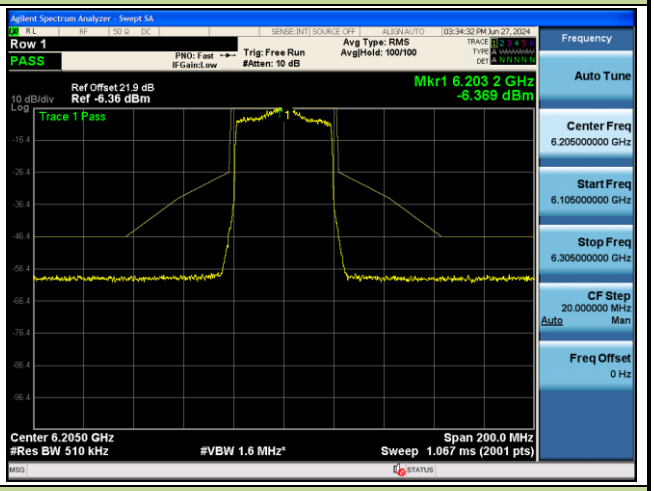
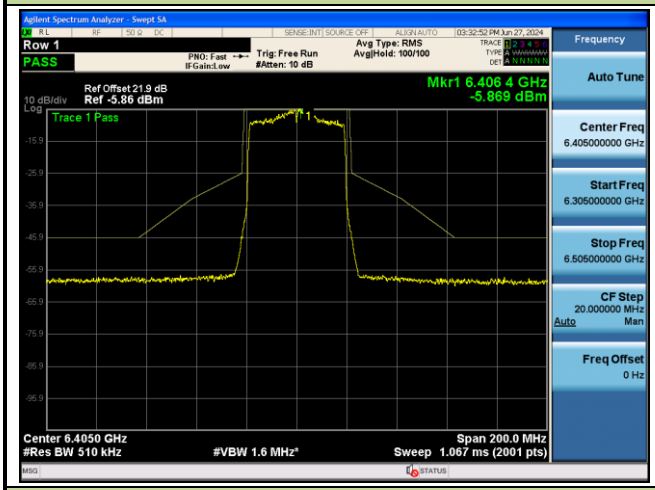
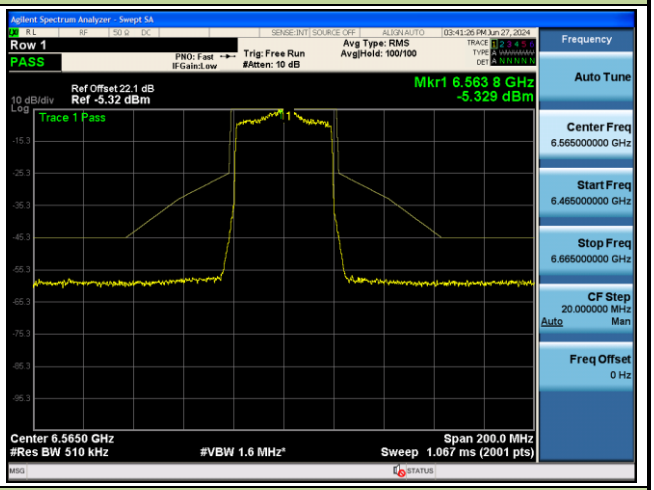
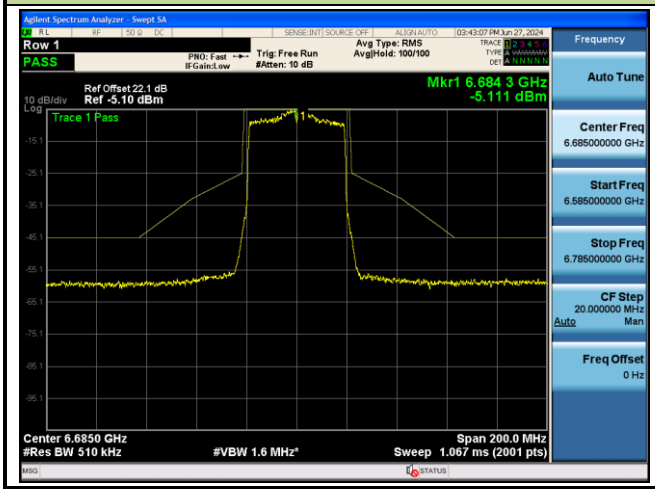
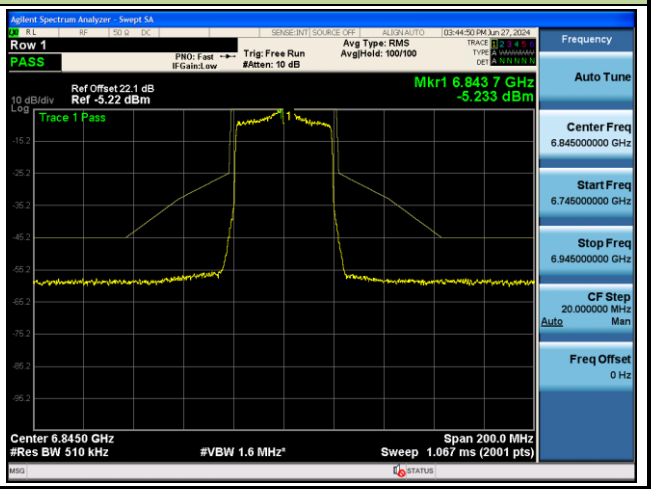
802.11a - Ant 0	
Channel 2 (5935MHz)	Channel 1 (5955MHz)
	
Channel 49 (6195MHz)	Channel 93 (6415MHz)
	
Channel 117 (6535MHz)	Channel 153 (6715MHz)

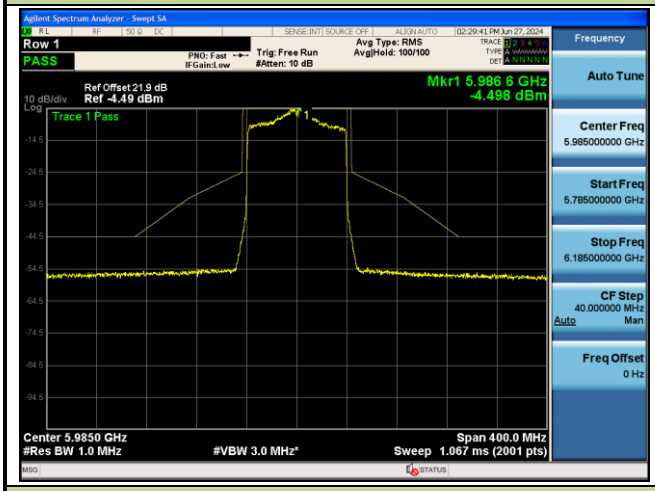
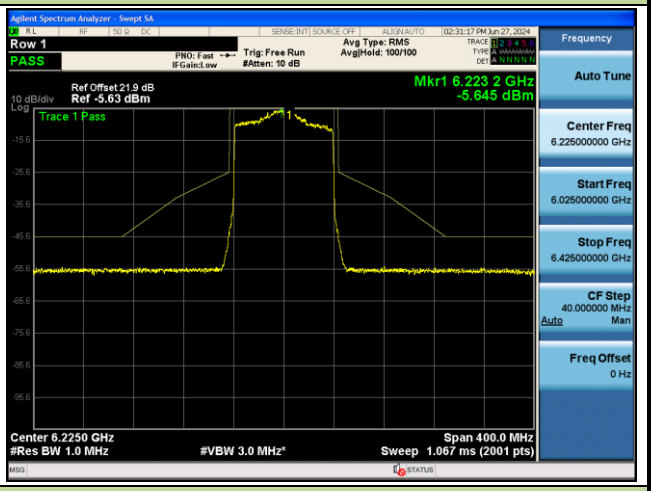
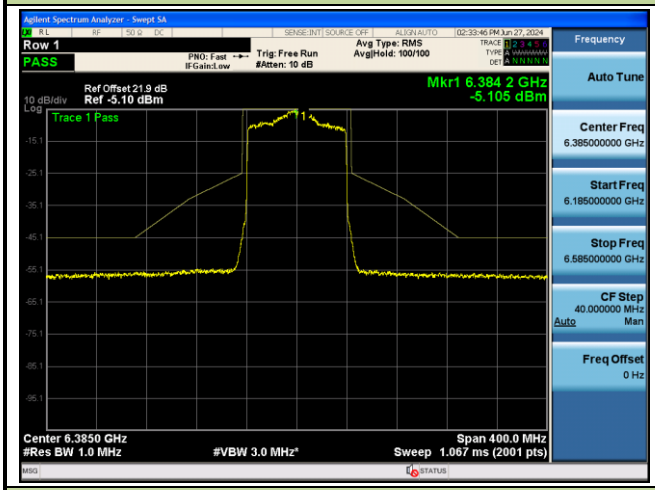
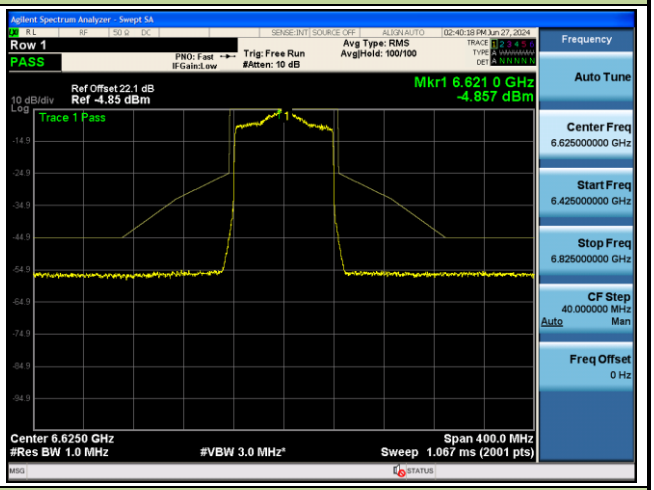
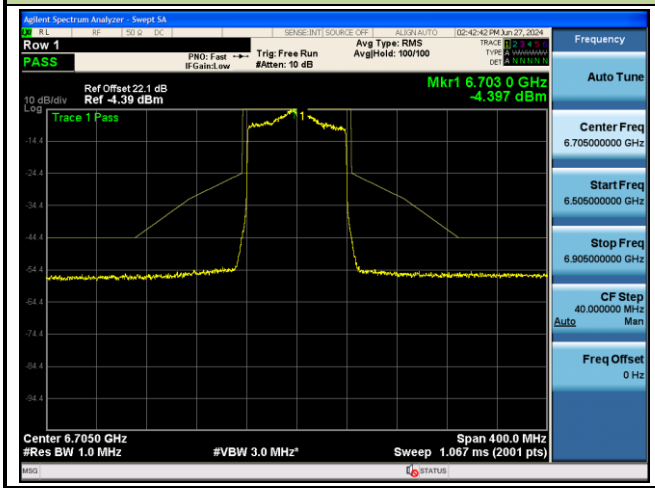
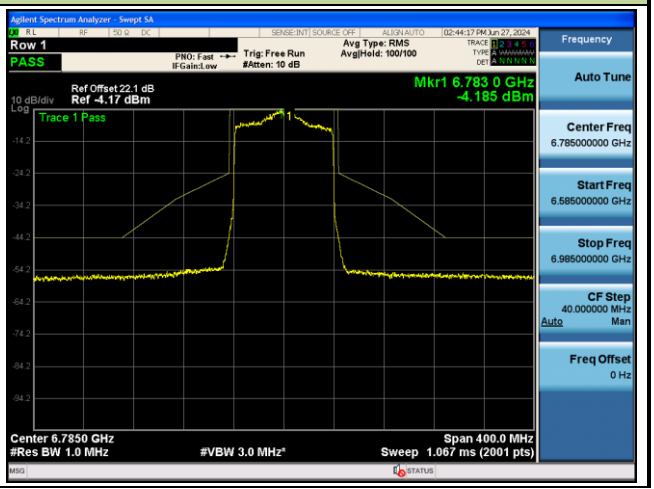

Agilent Spectrum Analyzer - Swept SA
Row 1
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 22.1 dB
10 dB/div
Ref -4.70 dBm
Log
Mkr1 6.534 25 GHz
-4.795 dBm
Trace 1 Pass
Center 6.53500 GHz
#Res BW 300 kHz
#VBW 1.0 MHz*
Span 100.0 MHz
Sweep 1.467 ms (2001 pts)
Frequency
Auto Tune
Center Freq
6.535000000 GHz
Start Freq
6.485000000 GHz
Stop Freq
6.585000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Row 1
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 22.1 dB
10 dB/div
Ref -4.69 dBm
Log
Mkr1 6.715 35 GHz
-4.696 dBm
Trace 1 Pass
Center 6.71500 GHz
#Res BW 300 kHz
#VBW 1.0 MHz*
Span 100.0 MHz
Sweep 1.467 ms (2001 pts)
Frequency
Auto Tune
Center Freq
6.715000000 GHz
Start Freq
6.665000000 GHz
Stop Freq
6.765000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

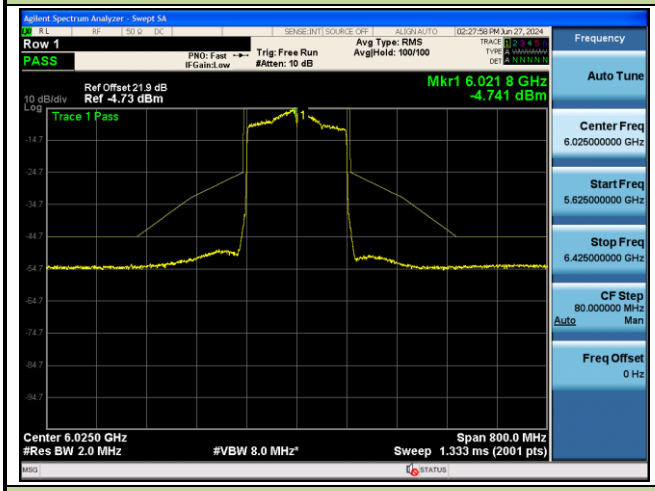
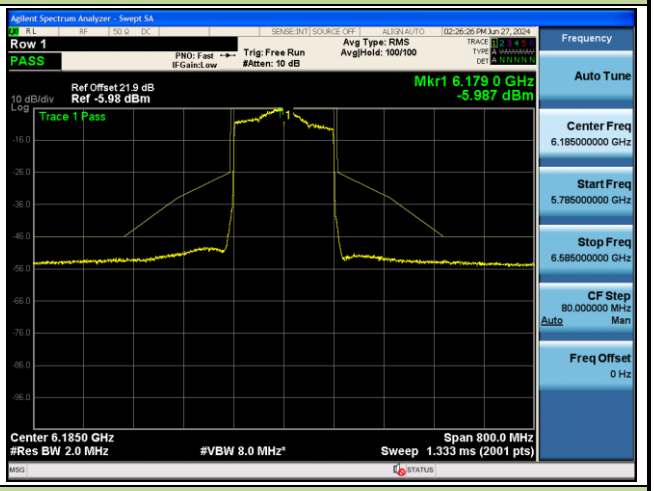
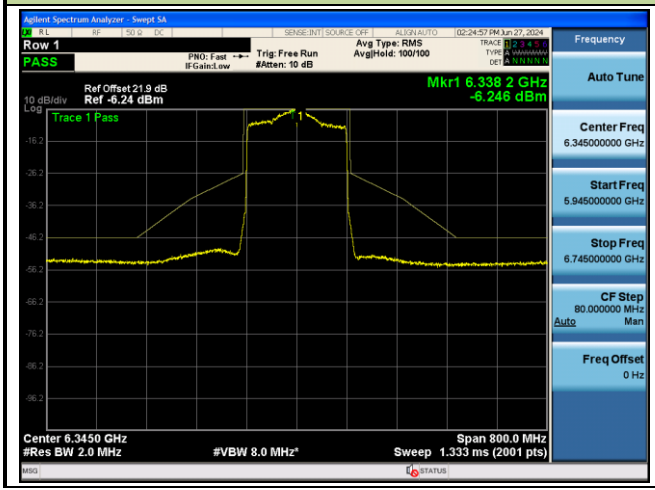
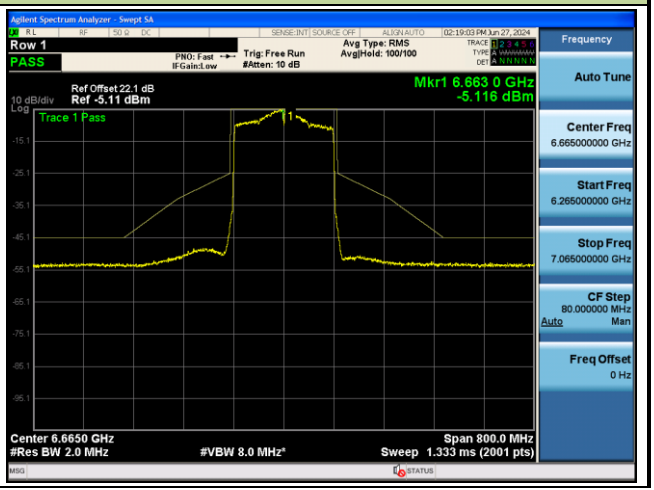
Channel 181 (6855MHz)	
	

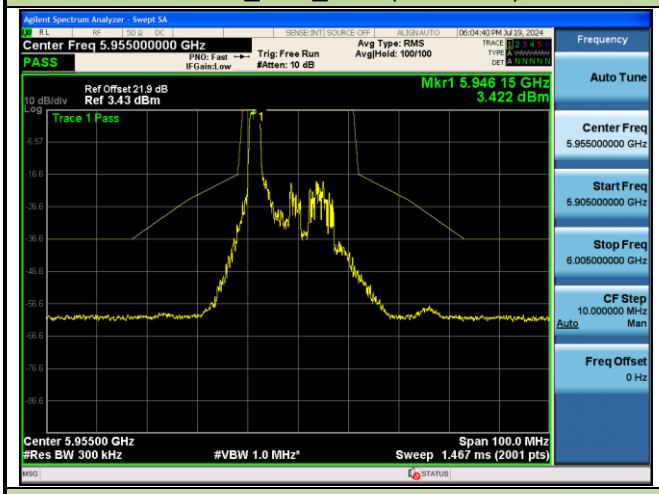
802.11ax-HE20 - Ant 0	
Channel 2 (5935MHz)	Channel 1 (5955MHz)
	
Channel 49 (6195MHz)	Channel 93 (6415MHz)
	
Channel 117 (6535MHz)	Channel 153 (6715MHz)
	

Channel 181 (6855MHz)	
	

802.11ax-HE40 - Ant 0	
Channel 3 (5965MHz)	Channel 51 (6205MHz)
	
Channel 91 (6405MHz)	Channel 123 (6565MHz)
	
Channel 147 (6685MHz)	Channel 179 (6845MHz)
	

802.11ax-HE80 - Ant 0	
Channel 7 (5985MHz)	Channel 55 (6225MHz)
	
Channel 87 (6385MHz)	Channel 135 (6625MHz)
	
Channel 151 (6705MHz)	Channel 167 (6785MHz)
	

802.11ax-HE160 - Ant 0	
Channel 15 (6025MHz)	Channel 47 (6185MHz)
	
Channel 79 (6345MHz)	Channel 143 (6665MHz)
	

802.11ax-HE20 Power Spectral Density - Ant 0	
26 Tone_RU0_CH1 (5955MHz)	26 Tone_RU8_CH93 (6415MHz)
	
26 Tone_RU0_CH117 (6535MHz)	26 Tone_RU8_CH181 (6855MHz)