Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2025/11/03~05	Temp./Hum.	23~24℃/65~68%
Cable Loss	1.5dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Power Spectral Density Result

- OFDM Modulation

Mode		Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Antenna Gain (dBi)		Total Power Spectral Density (dBm/1MHz)(EIRP) Note 2	Limit
			Aux	Main		AUX	Main		
802.11a	U-NII Band 5	5955	**-2.653**	-4.217	0.899	0.13	1.18	-1.624	-1dBm/MHz
		6175	-3.126	-3.573		0.13	1.18	-1.494	
		6415	-3.015	**-3.572**		0.13	1.18	-1.493	
	U-NII Band 6	6435	-5.806	**-2.224**	0.899	2.84	-0.51	-1.835	
		6475	-5.696	-2.731		2.84	-0.51	-1.957	
		6515	**-5.695**	-2.251		2.84	-0.51	-1.862	
	U-NII Band 7	6535	-6.087	**-2.350**	0.899	2.84	-0.51	-1.961	
		6695	-5.777	-2.827		2.84	-0.51	-2.038	
		6855	**-5.687**	-2.383		2.84	-0.51	-1.948	
	U-NII Band 8	6875	-3.175	-3.847	0.899	0.47	0.91	-1.806	
		6995	-3.491	**-3.437**		0.47	0.91	-1.628	
		7115	**-3.045**	-3.676		0.47	0.91	-1.676	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Antenna Gain (dBi).
3. We only presented max result (worst case) plots for each test mode.

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Mode		Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi)[Note 2]	Total Power Spectral Density (dBm/1MHz)(EIRP) [Note 2]	Limit
			Aux	Main				
802.11ax-HE20	U-NII Band 5	5955	**-6.242**	-5.894	0.867	0.69	-1.497	-1dBm/MHz
		6175	-6.953	**-5.592**		0.69	-1.652	
		6415	-6.571	-5.982		0.69	-1.699	
	U-NII Band 6	6435	-7.861	-6.672	0.867	1.48	-1.869	
		6475	-7.912	-6.449		1.48	-1.762	
		6515	**-7.645**	**-6.333**		1.48	-1.582	
	U-NII Band 7	6535	-7.351	**-6.462**	0.867	1.48	-1.526	
		6695	**-6.735**	-7.110		1.48	-1.561	
		6855	-7.768	-6.493		1.48	-1.727	
	U-NII Band 8	6875	-6.836	**-5.518**	0.867	0.70	-1.550	
		6995	-6.668	-6.094		0.70	-1.794	
		7115	**-6.387**	-6.052		0.70	-1.639	
802.11ax-HE40	U-NII Band 5	5965	**-5.293**	-6.023	0.742	0.69	-1.200	-1dBm/MHz
		6165	-6.297	**-5.743**		0.69	-1.569	
		6405	-6.285	-6.281		0.69	-1.841	
	U-NII Band 6	6445	-7.065	-6.709	0.742	1.48	-1.651	
		6485	**-6.835**	**-6.430**		1.48	-1.395	
	U-NII Band 7	6525	**-6.648**	-6.759	0.742	1.48	-1.471	
		6685	-6.957	-7.033		1.48	-1.763	
		6845	-6.973	**-6.160**		1.48	-1.315	
	U-NII Band 8	6885	-6.766	**-5.816**	0.742	0.70	-1.813	
		7005	**-5.874**	-6.074		0.70	-1.521	
		7085	-5.930	-5.981		0.70	-1.503	
802.11ax-HE80	U-NII Band 5	5985	**-8.468**	**-8.967**	1.337	0.69	-3.673	-1dBm/MHz
		6145	-9.171	-9.556		0.69	-4.322	
		6385	-9.415	-9.209		0.69	-4.273	
	U-NII Band 6	6465	-9.664	**-8.770**	1.337	1.48	-3.367	
		6545	**-9.505**	-9.606		1.48	-3.728	
	U-NII Band 7	6625	**-9.003**	-9.768	1.337	1.48	-3.541	
		6705	-9.036	-9.423		1.48	-3.398	
		6785	-9.226	**-9.025**		1.48	-3.297	
	U-NII Band 8	6865	-10.392	**-8.966**	1.337	0.70	-4.573	
		6945	-9.773	-9.596		0.70	-4.636	
		7025	**-8.826**	-9.262		0.70	-3.991	
802.11ax-HE160	U-NII Band 5	6025	**-7.879**	**-7.420**	0.357	0.69	-3.586	-1dBm/MHz
		6185	-8.688	-8.078		0.69	-4.315	
		6345	-8.042	-7.755		0.69	-3.839	
	U-NII Band 6	6505	**-6.456**	**-6.910**	0.357	1.48	-1.830	
	U-NII Band 7	6665	**-8.182**	**-7.322**	0.357	1.48	-2.883	
		6825	-8.660	-7.461		1.48	-3.172	
	U-NII Band 8	6985	**-7.920**	**-7.229**	0.357	0.70	-3.493	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.

3. According to KDB 662911 D01 d) i), transmit signals are completely uncorrelated, then
Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + … + $10^{GN/10}$)/N_{ANT}] dBi
5925~6425MHz: Directional gain = 10 log[($10^{0.13/10}$ +$10^{1.18/10}$)/2]= 0.69dBi
6425~6525MHz: Directional gain = 10 log[($10^{2.84/10}$ +$10^{-0.51/10}$)/2]= 1.48dBi
6525~6825MHz: Directional gain = 10 log[($10^{2.84/10}$ +$10^{-0.51/10}$)/2]= 1.48dBi
6925~7125MHz: Directional gain = 10 log[($10^{0.47/10}$ +$10^{0.91/10}$)/2]= 0.7dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. We only presented max result (worst case) plots for each test mode.

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Mode		Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 2	Total Power Spectral Density (dBm/1MHz)(EIRP) Note 2	Limit
			Aux	Main				
802.11be-EHT20	U-NII Band 5	5955	**-5.989**	-6.237	0.747	0.69	-1.664	-1dBm/MHz
		6175	-6.255	**-5.693**		0.69	-1.518	
		6415	-6.374	-6.436		0.69	-1.958	
	U-NII Band 6	6435	-7.567	-7.003	0.747	1.48	-2.039	
		6475	**-6.973**	-6.814		1.48	-1.655	
		6515	-7.570	**-6.386**		1.48	-1.700	
	U-NII Band 7	6535	-6.697	-6.785	0.747	1.48	-1.503	
		6695	**-6.635**	-7.543		1.48	-1.828	
		6855	-7.863	**-6.485**		1.48	-1.882	
	U-NII Band 8	6875	-6.860	-6.091	0.747	0.70	-2.001	
		6995	-6.766	**-6.035**		0.70	-1.928	
		7115	**-6.015**	-6.241		0.70	-1.669	
802.11be-EHT40	U-NII Band 5	5965	**-5.571**	-5.482	0.625	0.69	-1.201	-1dBm/MHz
		6165	-5.815	**-5.292**		0.69	-1.220	
		6405	-5.698	-5.965		0.69	-1.504	
	U-NII Band 6	6445	-6.671	-6.790	0.625	1.48	-1.615	
		6485	**-6.477**	**-6.619**		1.48	-1.432	
	U-NII Band 7	6525	-6.886	-6.397	0.625	1.48	-1.519	
		6685	**-6.781**	-6.456		1.48	-1.500	
		6845	-7.061	**-6.386**		1.48	-1.595	
	U-NII Band 8	6885	-6.110	**-5.422**	0.625	0.70	-1.417	
		7005	-5.841	-5.743		0.70	-1.456	
		7085	**-5.452**	-5.709		0.70	-1.243	
802.11be-EHT80	U-NII Band 5	5985	-9.214	-9.079	1.198	0.69	-4.248	-1dBm/MHz
		6145	-9.415	-9.167		0.69	-4.391	
		6385	**-9.129**	**-8.822**		0.69	-4.074	
	U-NII Band 6	6465	**-8.211**	**-8.202**	1.198	1.48	-2.518	
		6545	-9.194	-9.595		1.48	-3.702	
	U-NII Band 7	6625	-8.933	-9.369	1.198	1.48	-3.457	
		6705	**-8.533**	**-8.784**		1.48	-2.968	
		6785	-9.945	-8.903		1.48	-3.705	
	U-NII Band 8	6865	-9.009	**-8.111**	1.198	0.70	-3.629	
		6945	**-8.440**	-8.144		0.70	-3.381	
		7025	-9.081	-9.171		0.70	-4.217	
802.11be-EHT160	U-NII Band 5	6025	**-7.797**	**-7.727**	0.301	0.69	-3.761	-1dBm/MHz
		6185	-8.957	-7.908		0.69	-4.400	
		6345	-7.873	-7.838		0.69	-3.854	
	U-NII Band 6	6505	**-6.513**	**-7.271**	0.301	1.48	-2.084	
	U-NII Band 7	6665	**-8.316**	**-7.442**	0.301	1.48	-3.066	
		6825	-8.587	-7.488		1.48	-3.212	
	U-NII Band 8	6985	**-6.960**	**-7.925**	0.301	0.70	-3.404	

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.
3. According to KDB 662911 D01 d) i), transmit signals are completely uncorrelated, then
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6525~6825MHz: Directional gain = 10 log[$(10^{2.84/10} + 10^{-0.51/10})/2$]= 1.48dBi
6925~7125MHz: Directional gain = 10 log[$(10^{0.47/10} + 10^{0.91/10})/2$]= 0.7dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).
4. We only presented max result (worst case) plots for each test mode.

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- OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 6	Total Power Spectral Density (dBm/1MHz) (EIRP) Note 4	Limit
					Aux	Main				
26T	8	802.11ax-HE20	6	6475	-8.884	-8.600	0.630	1.48	-3.619	-1dBm/MHz
52T	40	802.11ax-HE20	6	6515	-8.091	-8.096	0.630	1.48	-2.973	-1dBm/MHz
106T	54	802.11ax-HE20	7	6695	-8.216	-8.385	0.665	1.48	-3.144	-1dBm/MHz
26T	4	802.11be-EHT20	6	6475	-9.289	-8.387	0.620	1.48	-3.704	-1dBm/MHz
52T	37	802.11be-EHT20	6	6515	-7.607	-7.528	0.630	1.48	-2.447	-1dBm/MHz
106T	53	802.11be-EHT20	6	6475	-7.909	-7.931	0.670	1.48	-2.760	-1dBm/MHz
26T+52T	71	802.11be-EHT20	6	6515	-7.898	-7.972	0.496	1.48	-2.949	-1dBm/MHz
26T+106T	83	802.11be-EHT20	6	6475	-8.694	-7.631	0.443	1.48	-3.197	-1dBm/MHz
484T+242T	91	802.11be-EHT80	7	6705	-7.548	-8.201	0.926	1.48	-2.446	-1dBm/MHz
996T+484T	s95	802.11be-EHT160	6	6505	-8.742	-9.230	0.395	1.48	-4.094	-1dBm/MHz
996T+484T+242T	s99	802.11be-EHT160	5	6505	-8.545	-9.017	0.487	1.48	-3.797	-1dBm/MHz

Note: 1. All results have been included cable loss [Please refer to KDB 662911 E 2) c)]
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%. + Directional Gain.
3. According to KDB 662911 D01 d) i), transmit signals are completely uncorrelated, then
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6425~6525MHz: Directional gain = 10 log[($10^{2.84/10}$ +$10^{-0.51/10}$)/2]= 1.48dBi
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6925~7125MHz: Directional gain = 10 log[($10^{0.47/10}$ +$10^{0.91/10}$)/2]= 0.7dBi
The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

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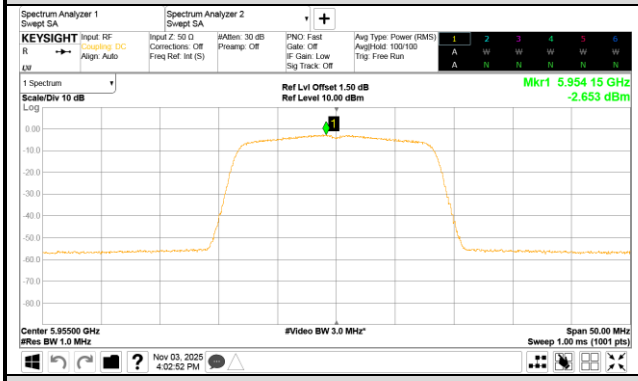
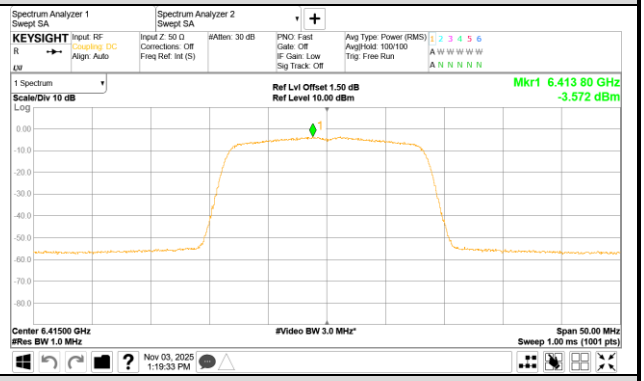
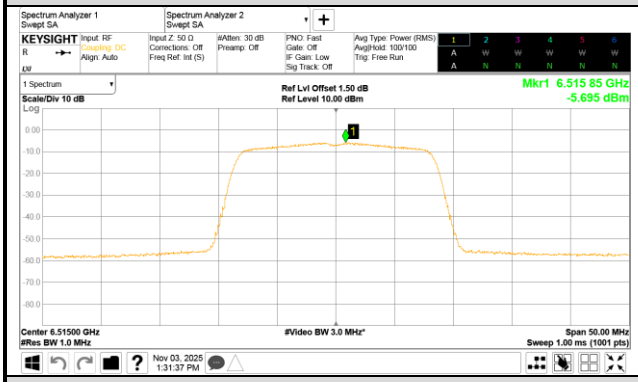
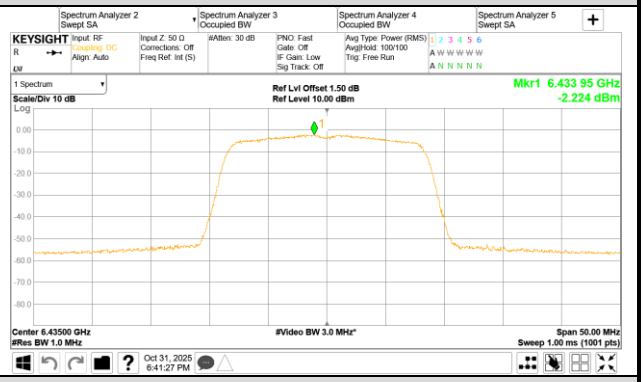
A.3.2 Measurement Plots

- OFDM Modulation

Mode: 802.11a	
AUX	Main
U-NII Band 5	U-NII Band 5
	
U-NII Band 6	U-NII Band 6
	
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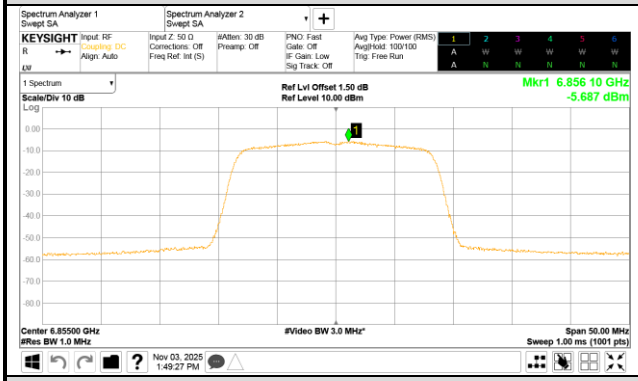
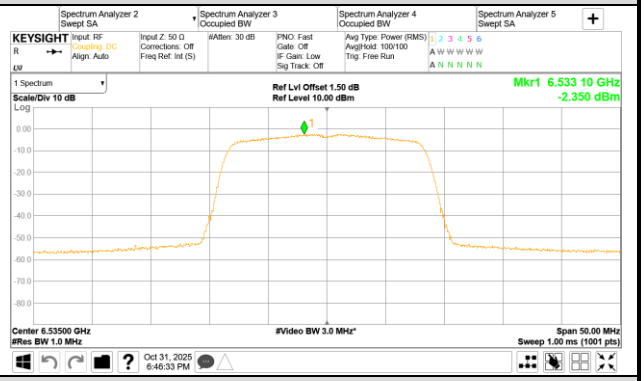
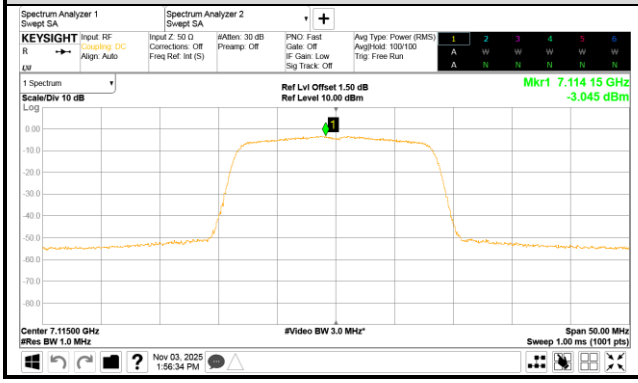
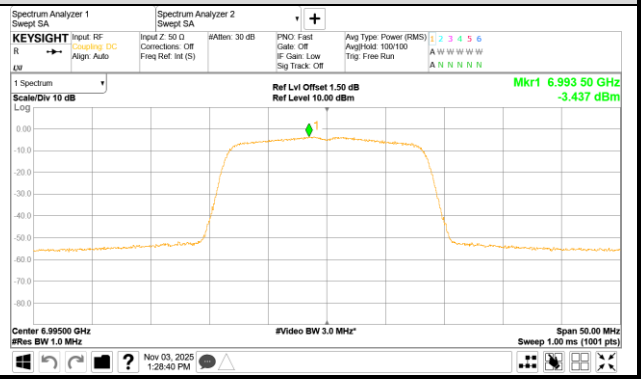
	
U-NII Band 8	U-NII Band 8
	

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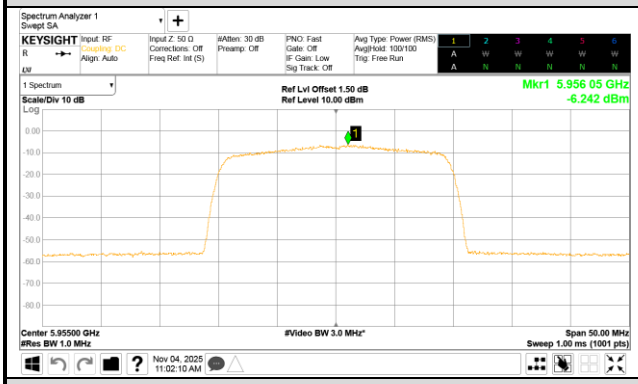
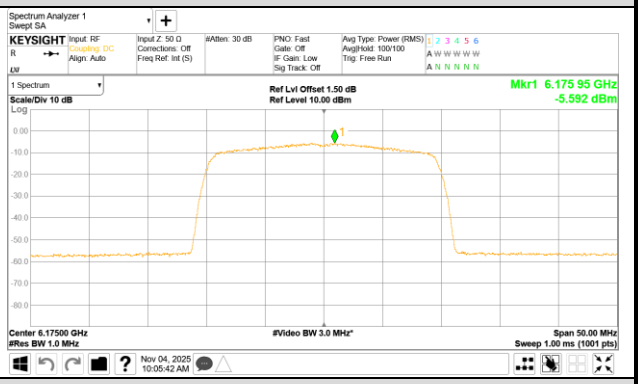
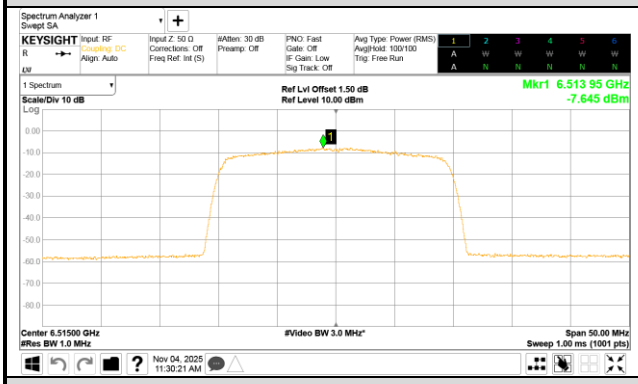
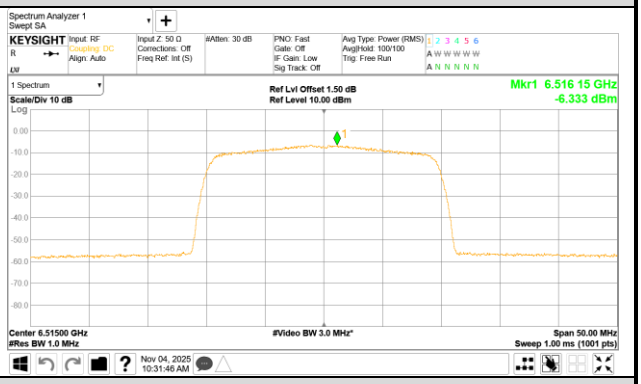
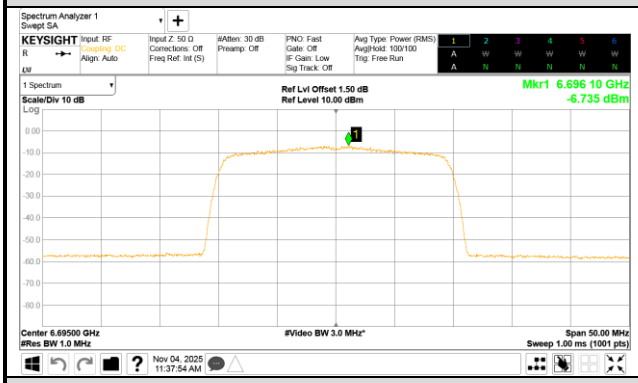
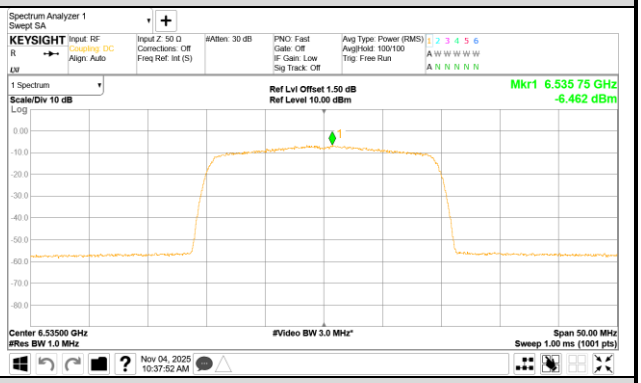
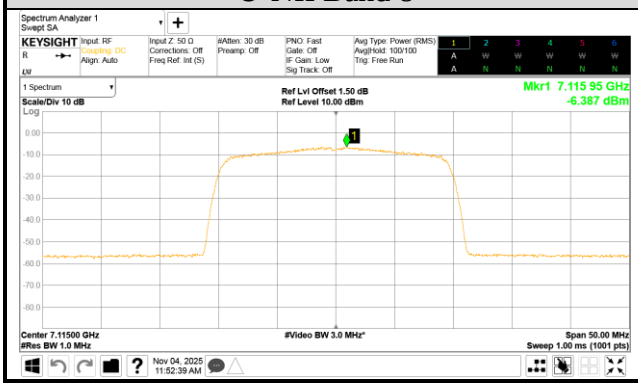
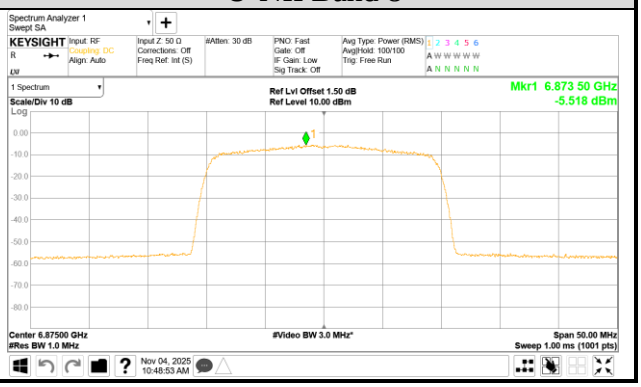
Fax: +886 2 26099303

Mode: 802.11ax-HE20	
AUX	Main
U-NII Band 5	U-NII Band 5
	
U-NII Band 6	U-NII Band 6
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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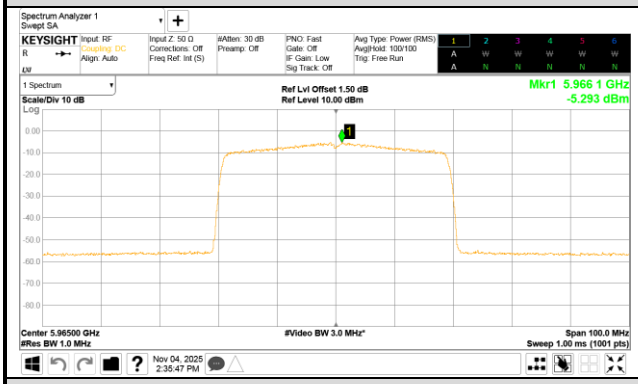
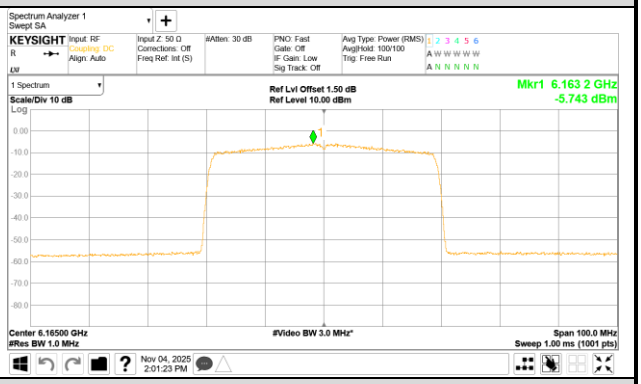
Mode: 802.11ax-HE40	
AUX	Main
U-NII Band 5	U-NII Band 5
	
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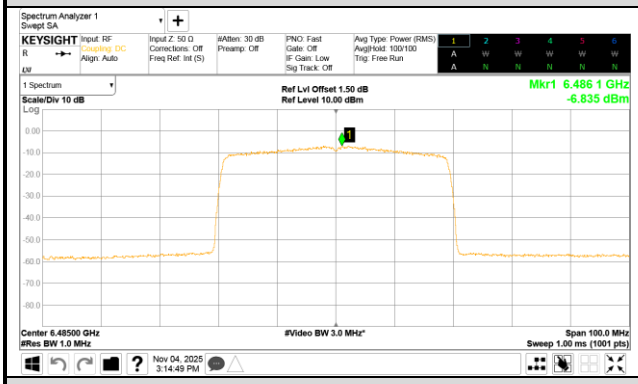
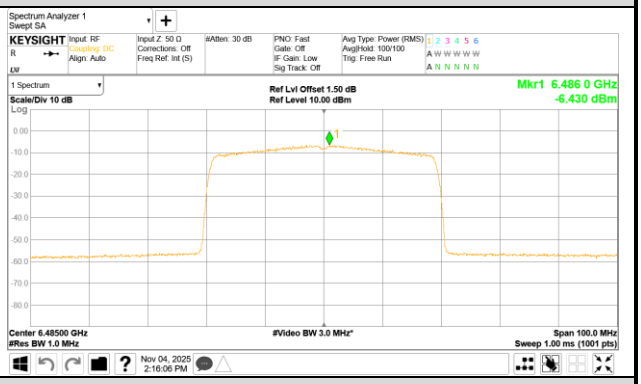
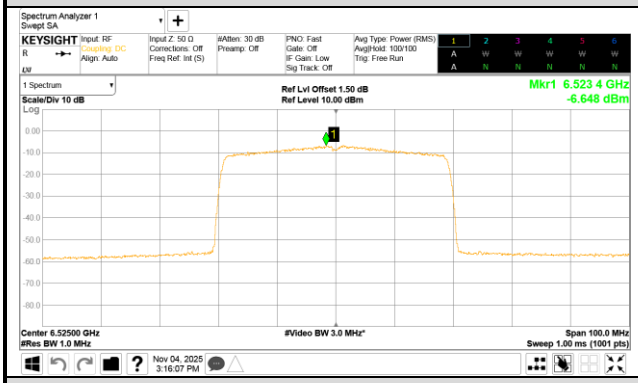
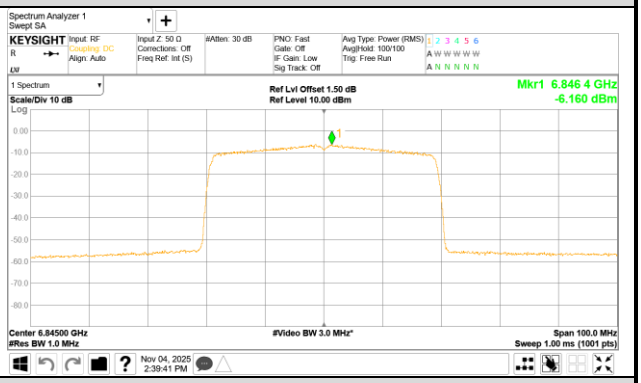
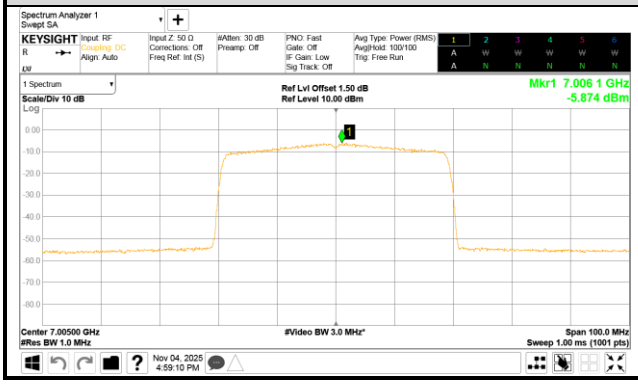
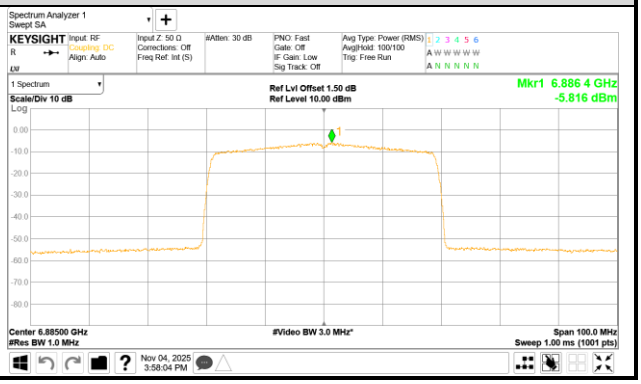
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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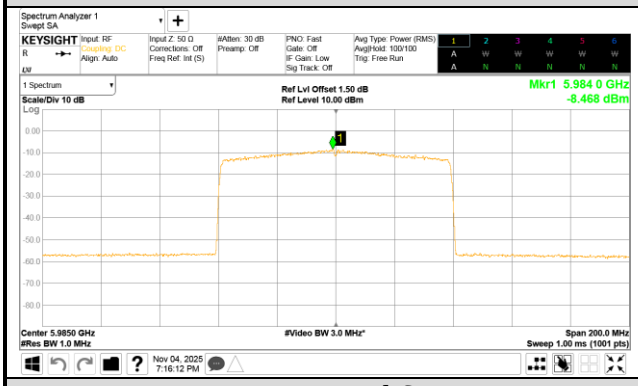
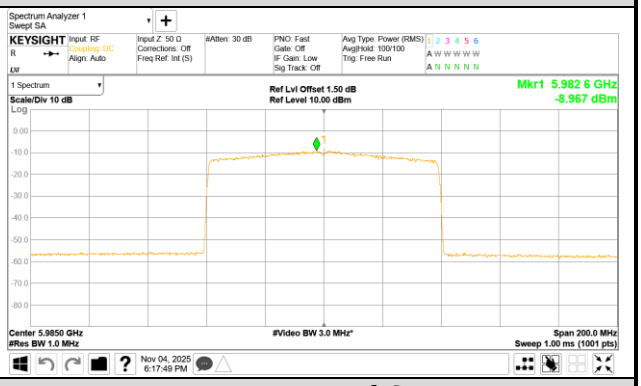
Mode: 802.11ax-HE80	
AUX	Main
U-NII Band 5	U-NII Band 5
	
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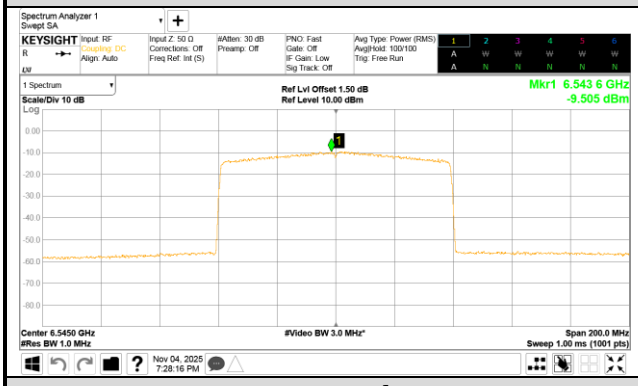
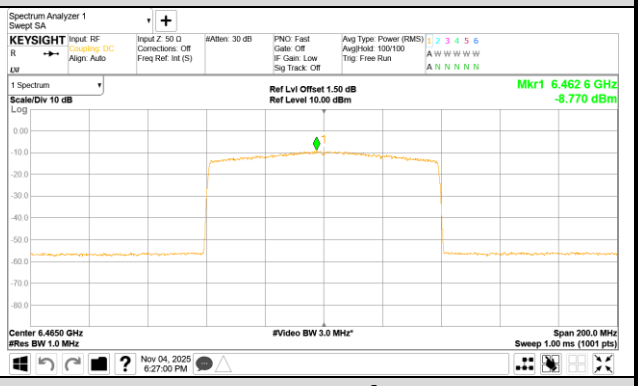
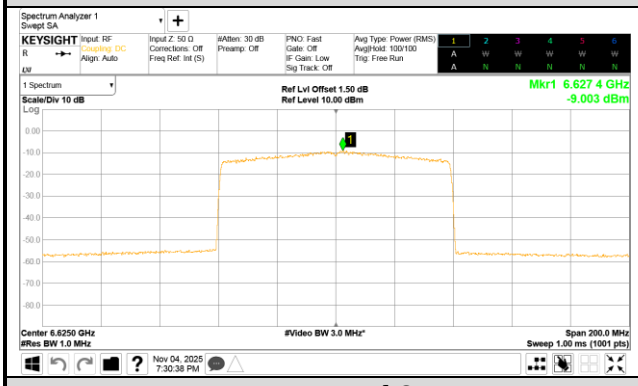
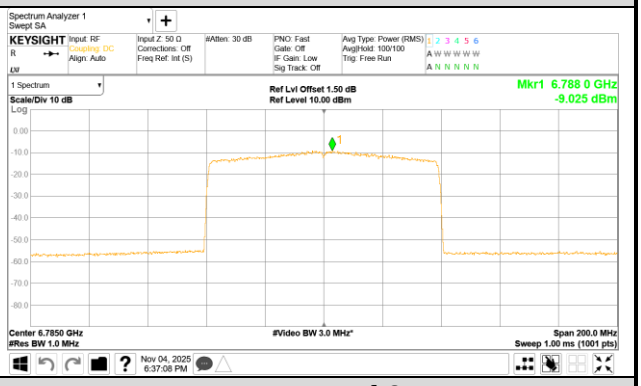
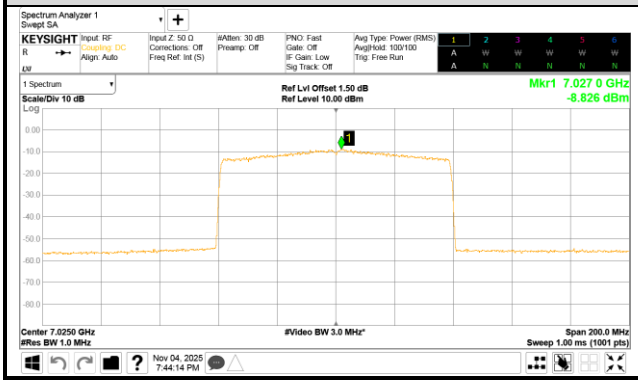
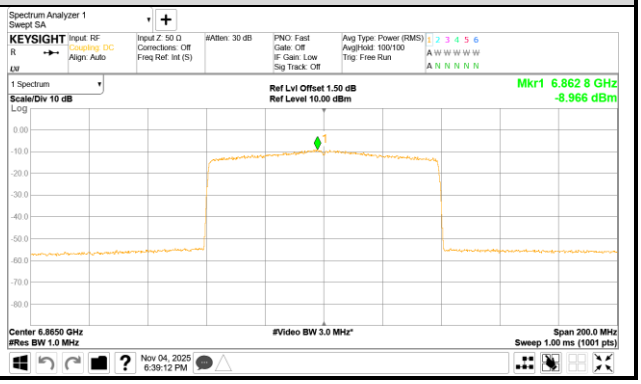
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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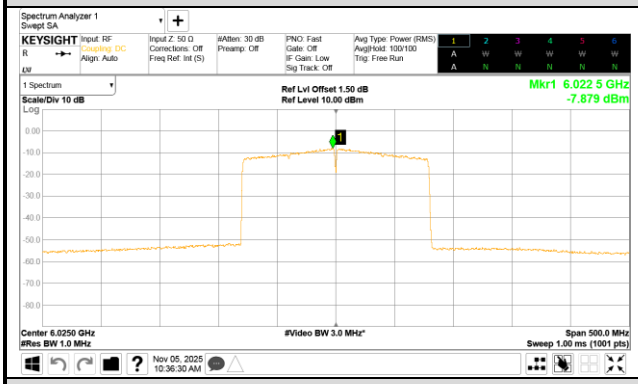
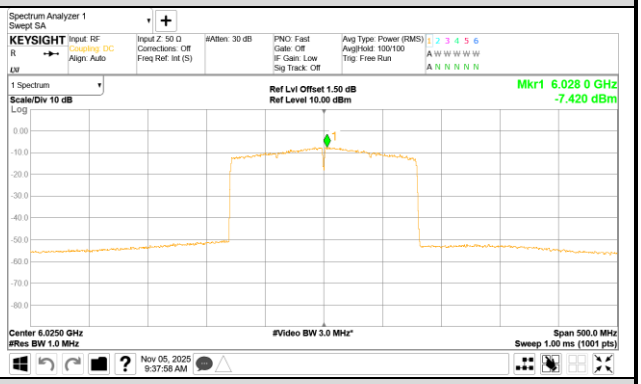
Mode: 802.11ax-HE160	
AUX	Main
U-NII Band 5	U-NII Band 5
	
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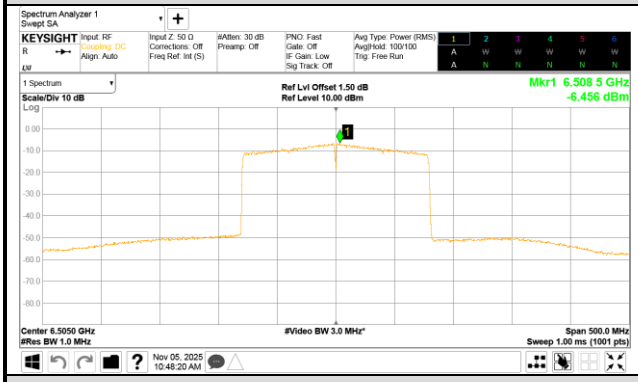
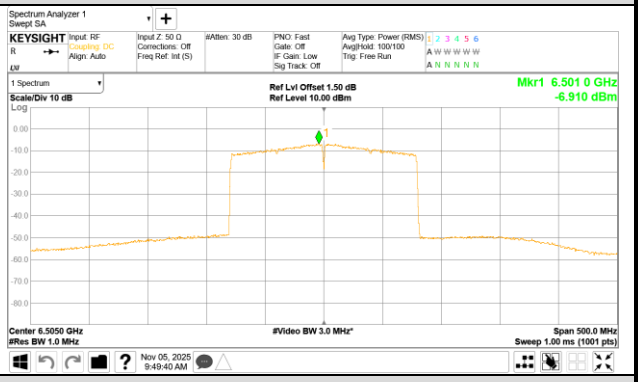
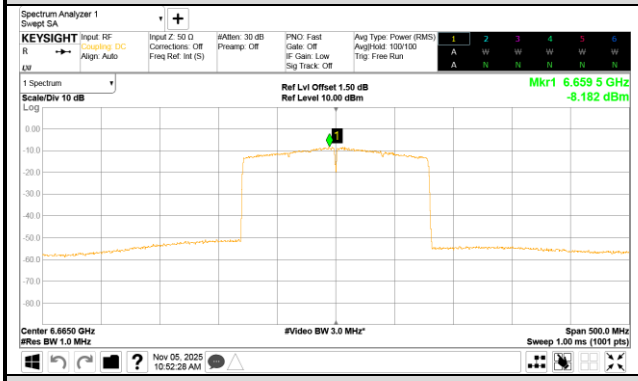
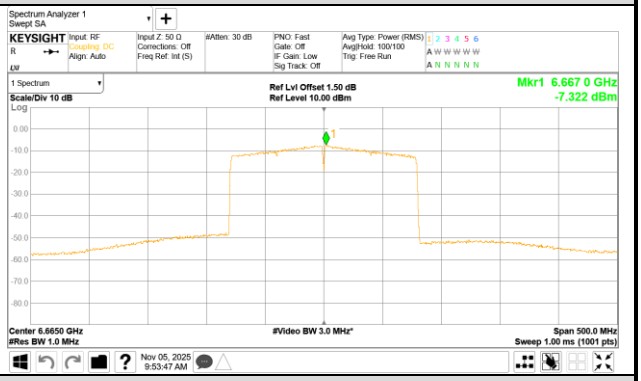
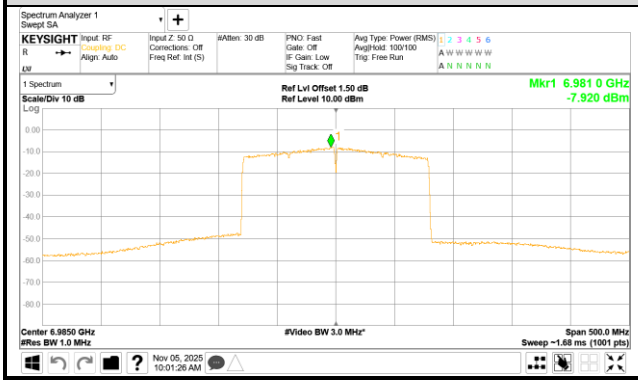
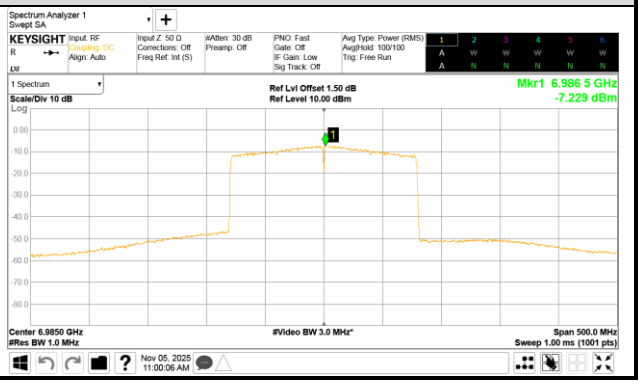
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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Mode: 802.11be-EHT20	
AUX	Main
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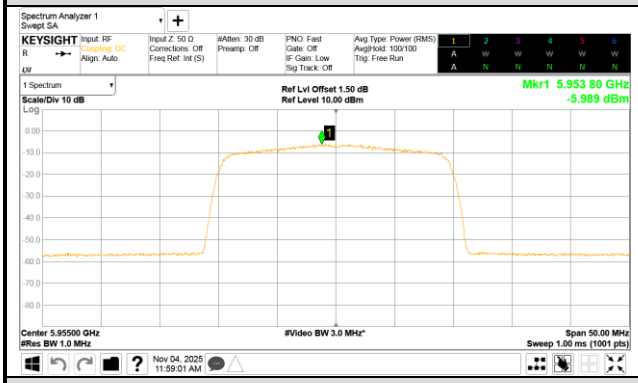
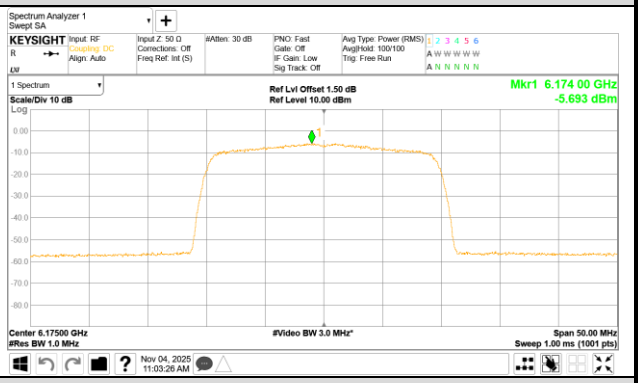
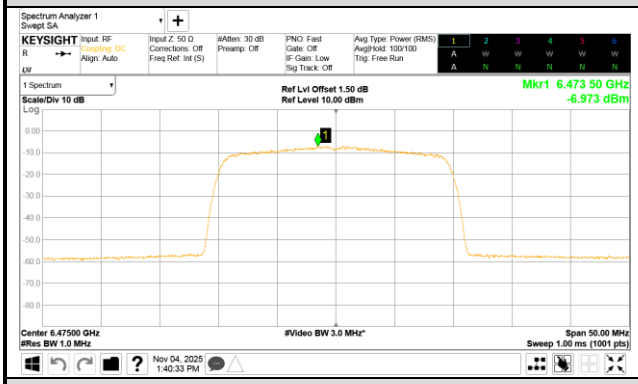
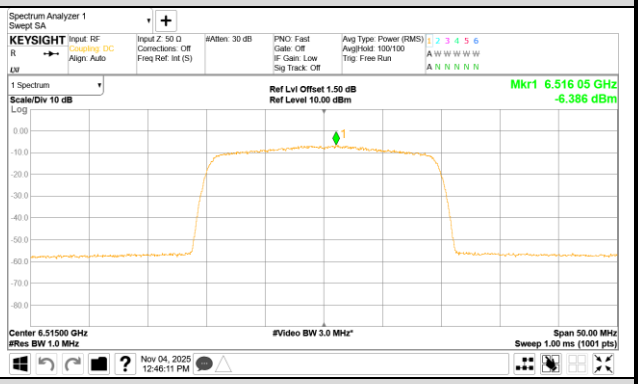
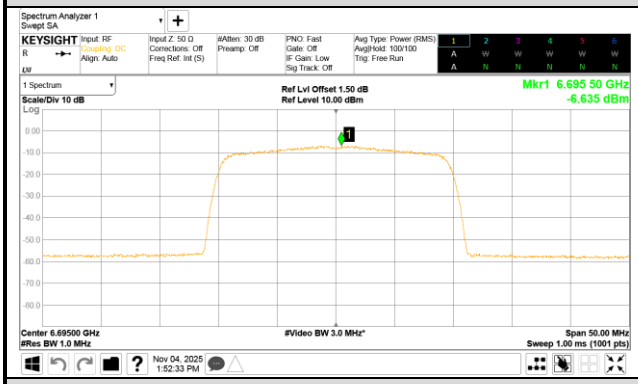
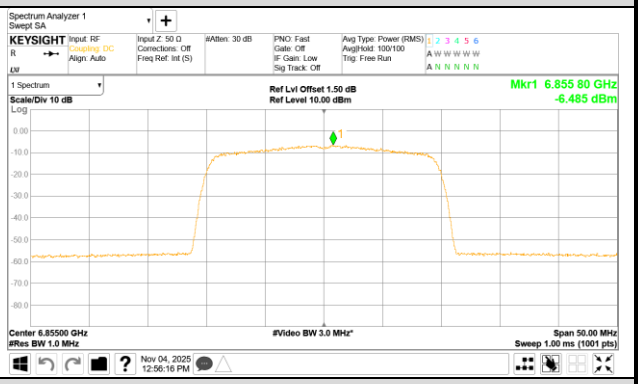
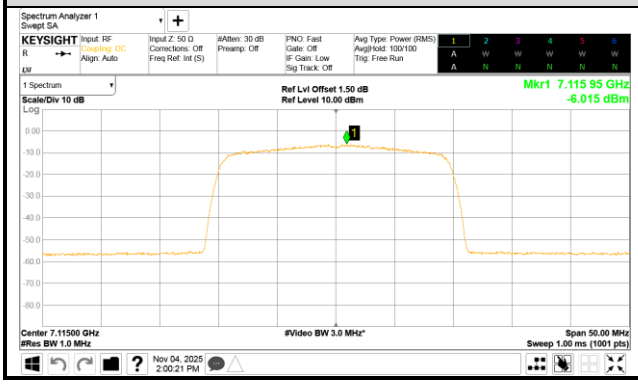
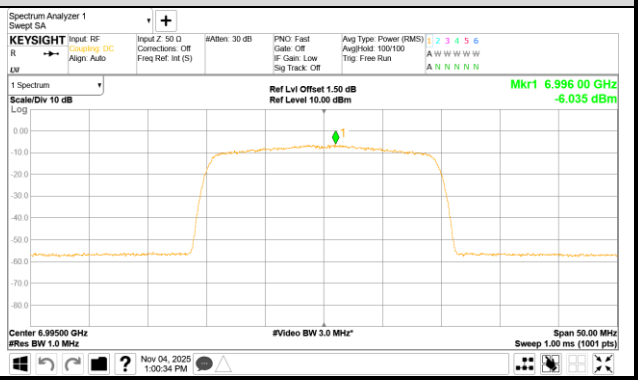
	
U-NII Band 6	U-NII Band 6
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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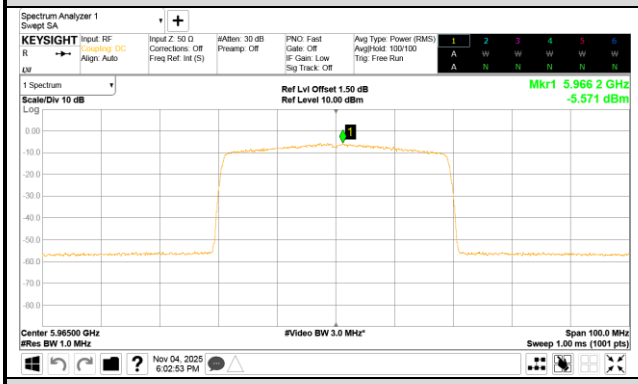
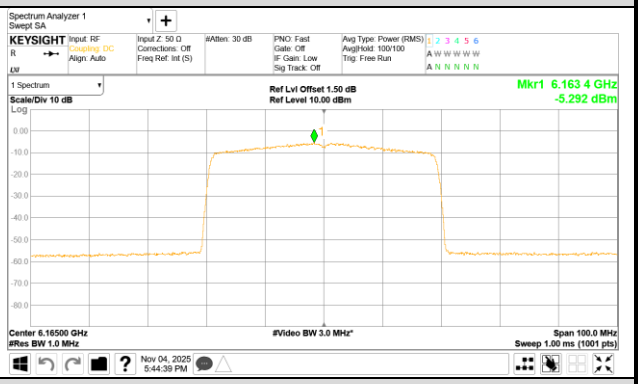
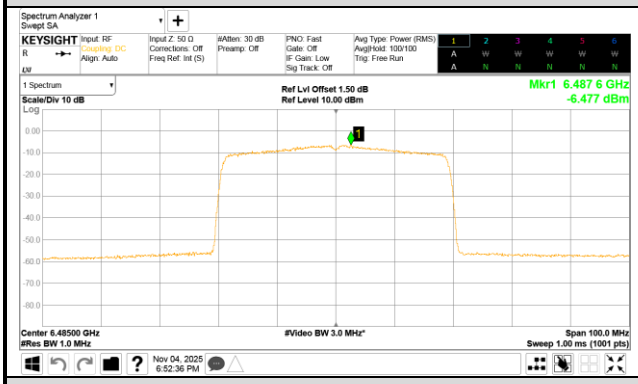
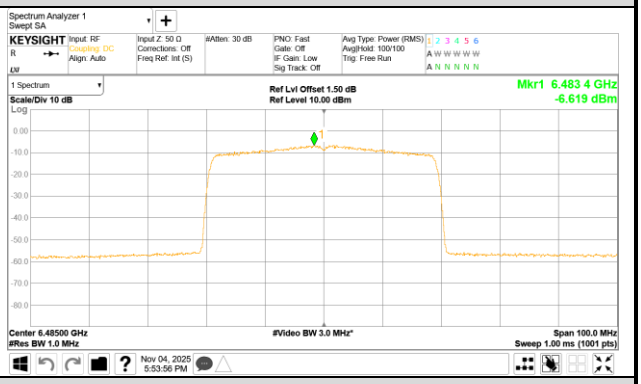
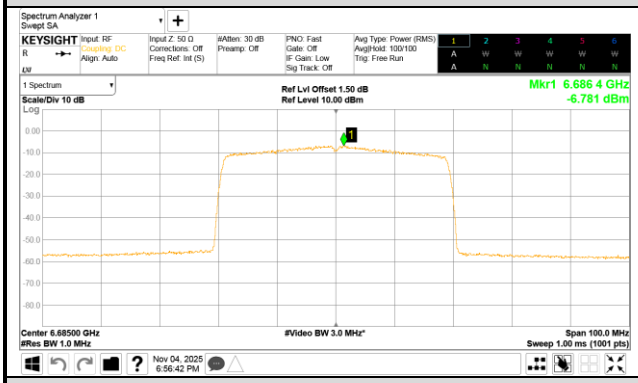
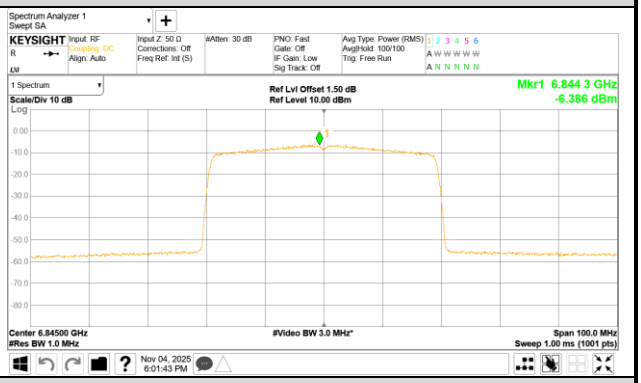
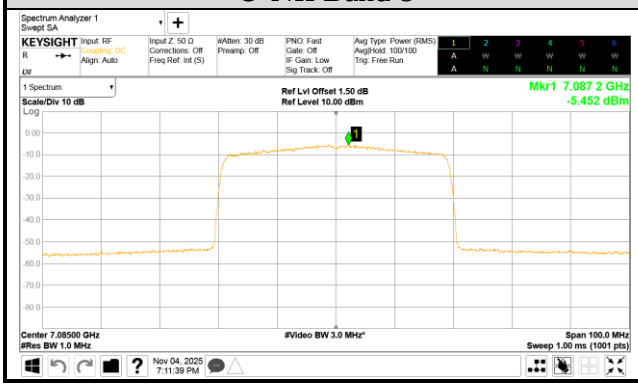
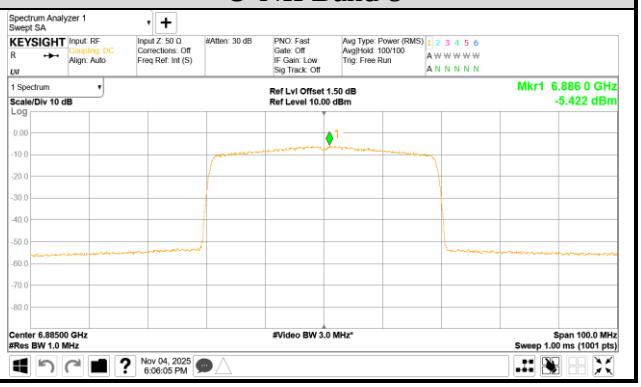
Mode: 802.11be-EHT40	
AUX	Main
U-NII Band 5	U-NII Band 5
	
U-NII Band 6	U-NII Band 6
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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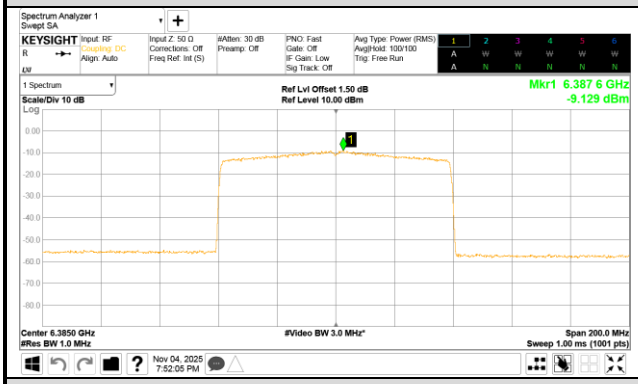
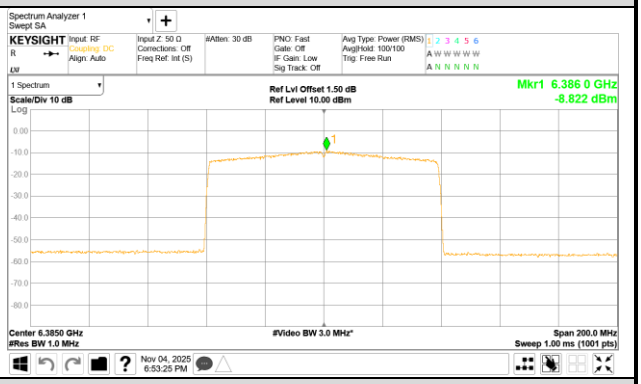
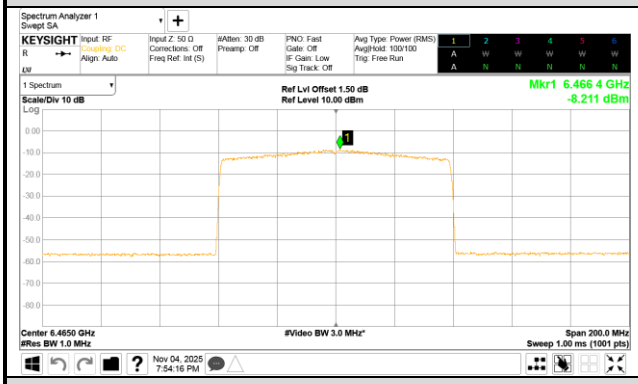
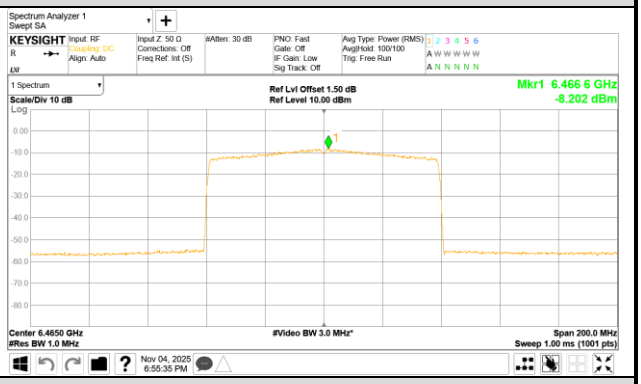
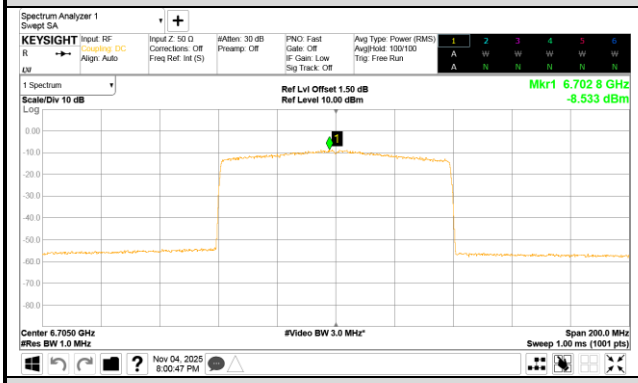
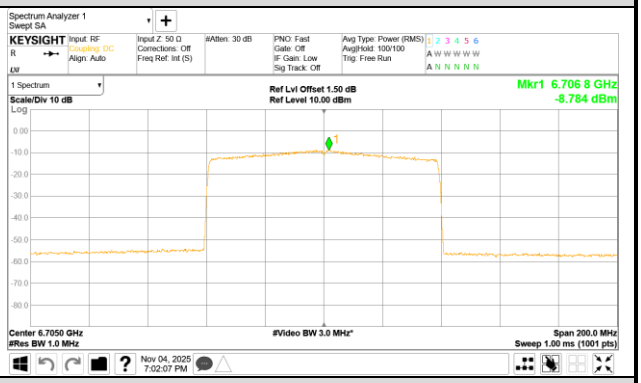
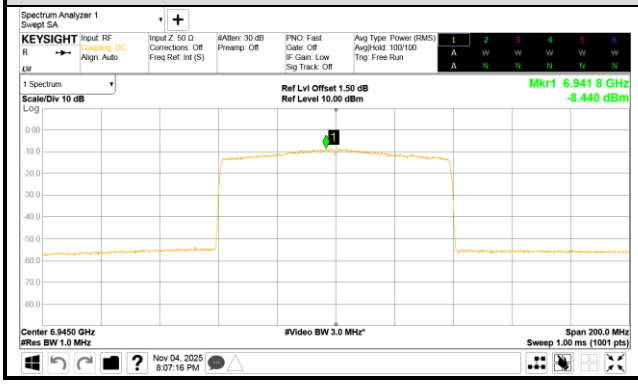
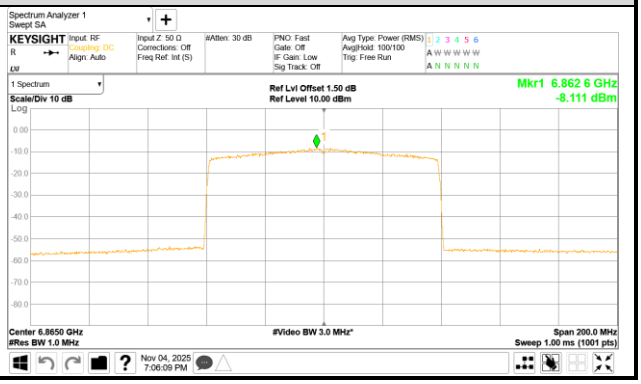
Mode: 802.11be-EHT80	
AUX	Main
U-NII Band 5	U-NII Band 5
	
U-NII Band 6	U-NII Band 6
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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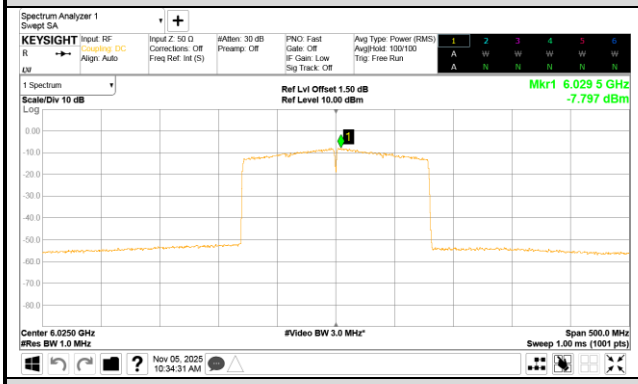
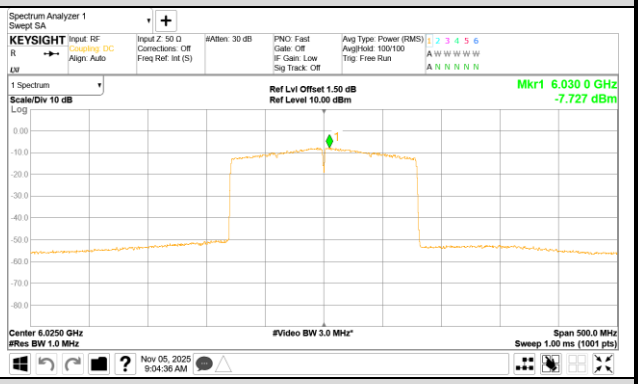
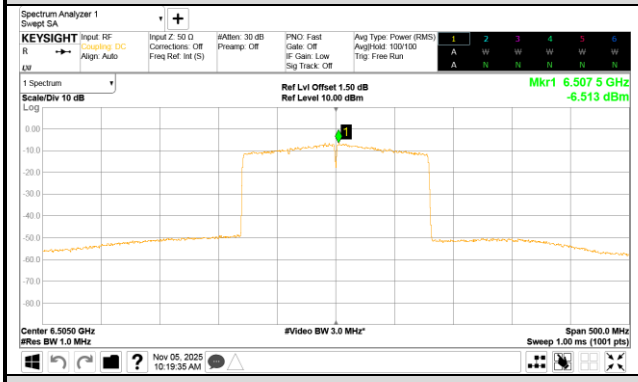
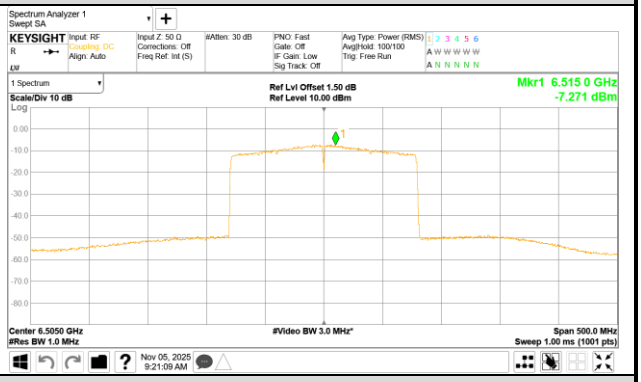
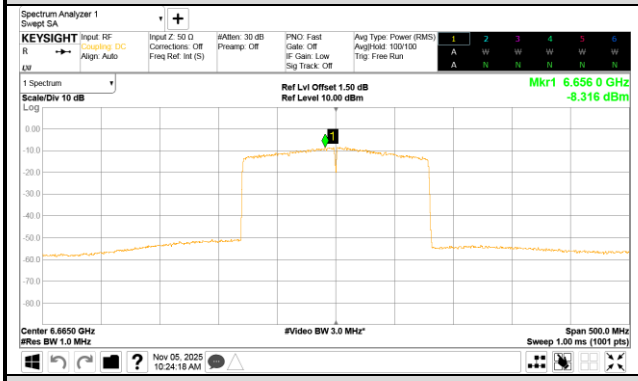
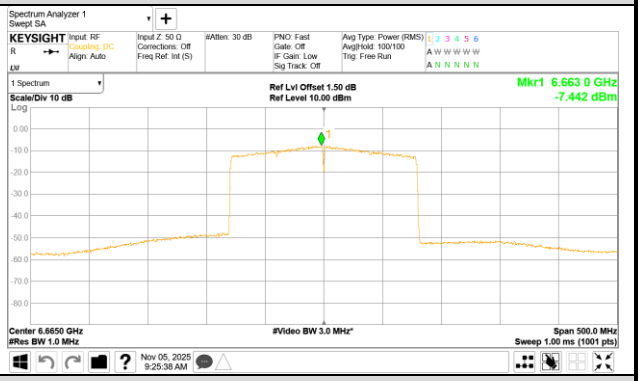
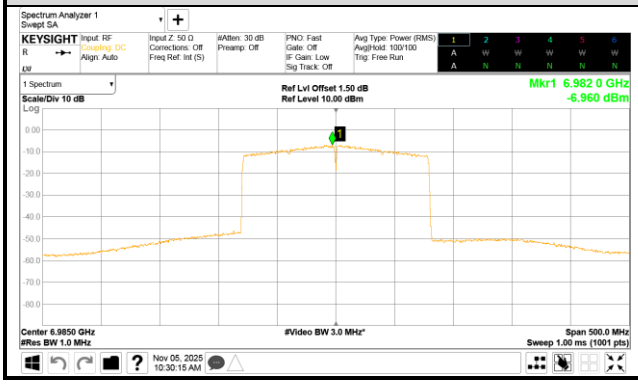
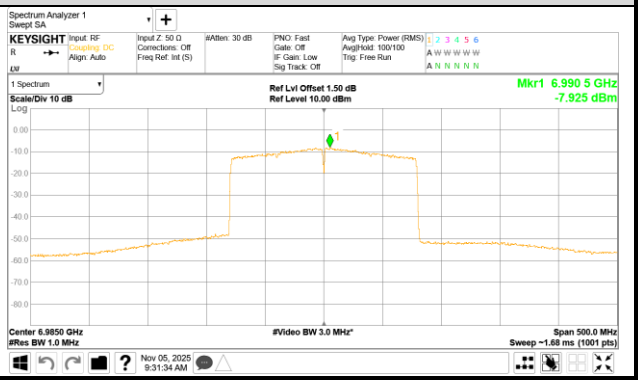
Mode: 802.11be-EHT160	
AUX	Main
U-NII Band 5	U-NII Band 5
	
U-NII Band 6	U-NII Band 6
	
U-NII Band 7	U-NII Band 7
	
U-NII Band 8	U-NII Band 8
	

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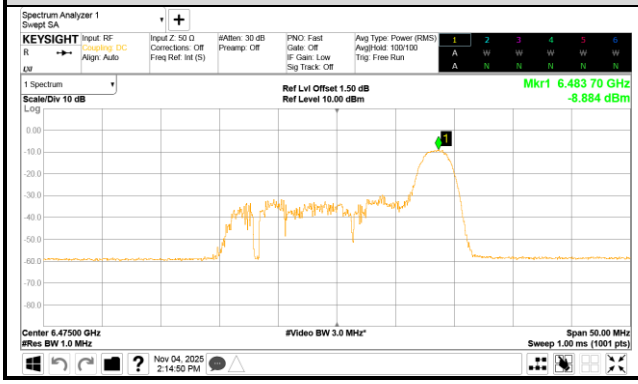
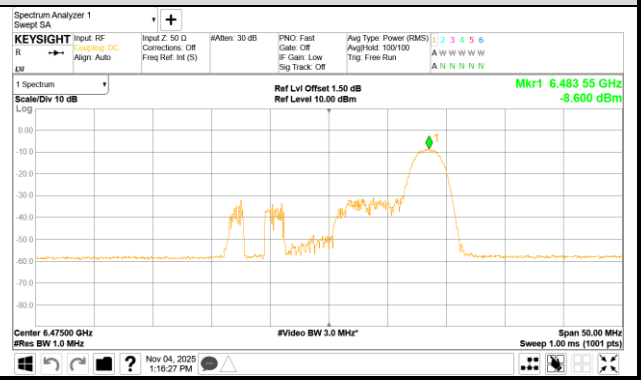
- OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
26T	8	802.11ax-HE20	6	6475

AUX

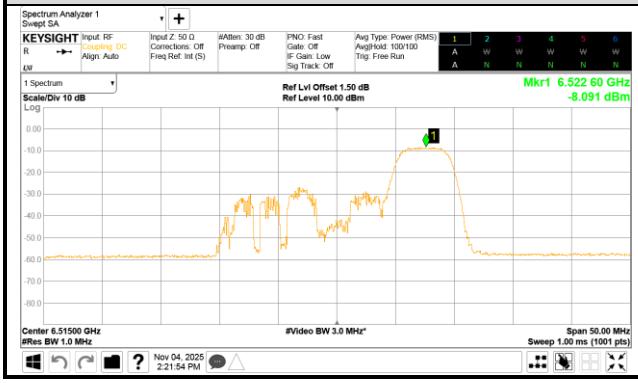


Main

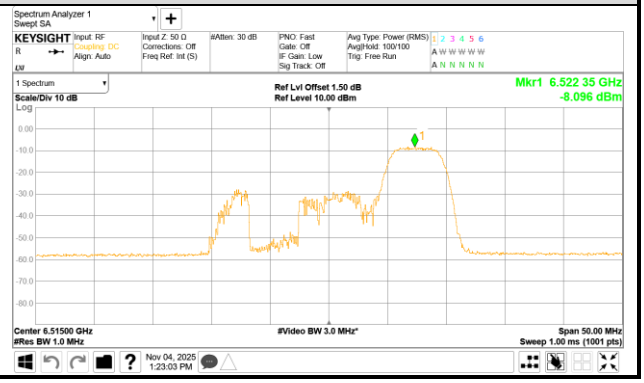


Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
52T	40	802.11ax-HE20	6	6515

AUX

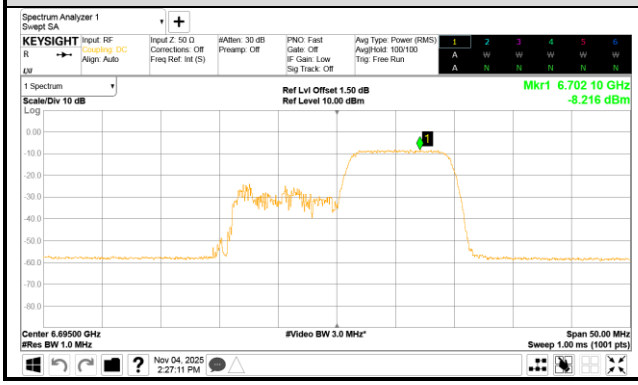


Main

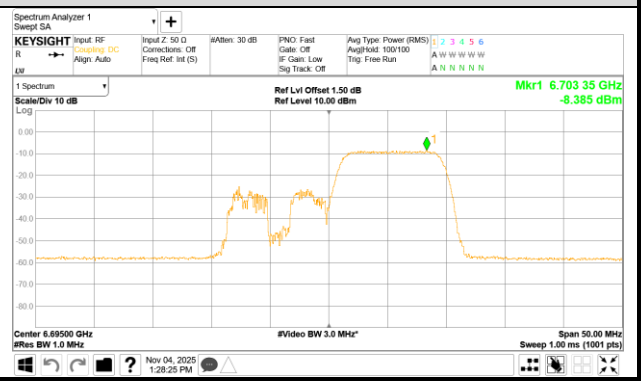


Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
106T	54	802.11ax-HE20	7	6695

AUX



Main



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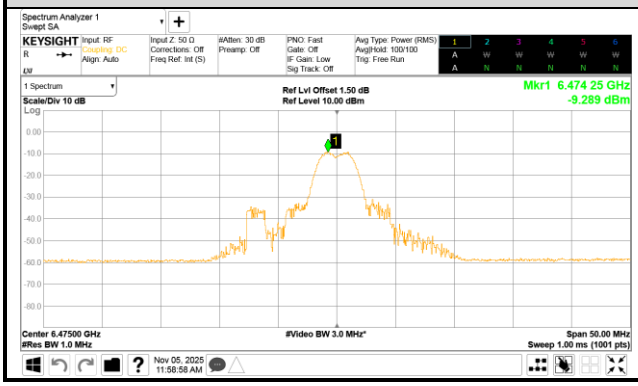
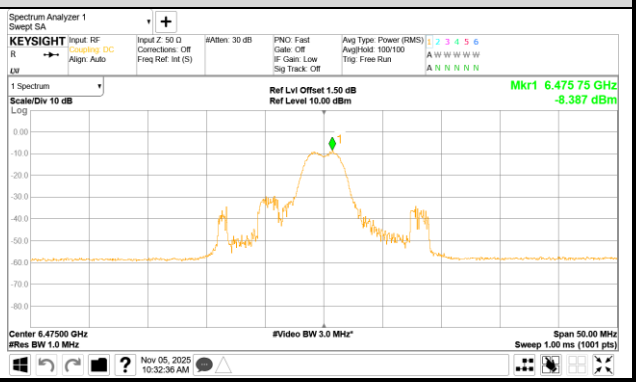
Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
26T	4	802.11be-EHT20	6	6475

AUX

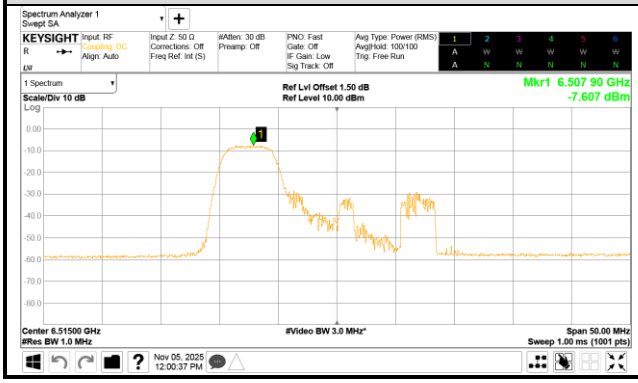


Main

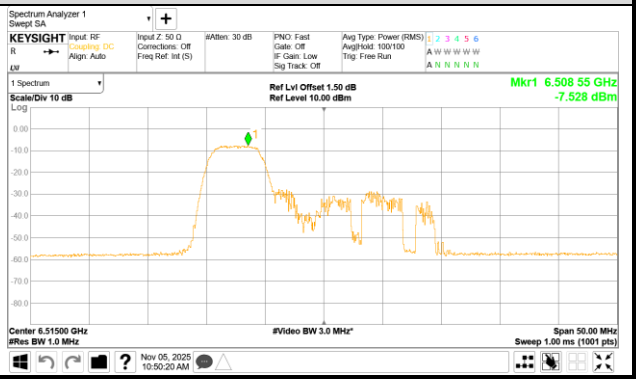


Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
52T	37	802.11be-EHT20	6	6515

AUX

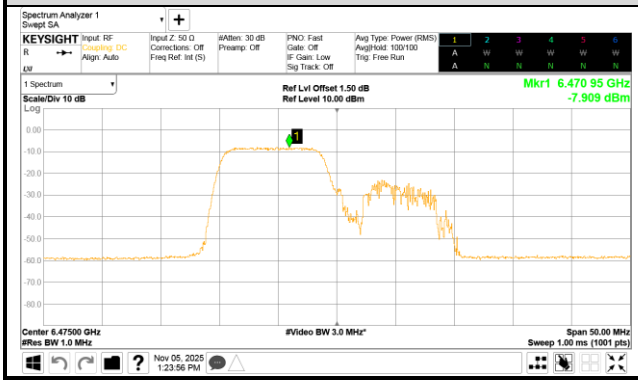


Main

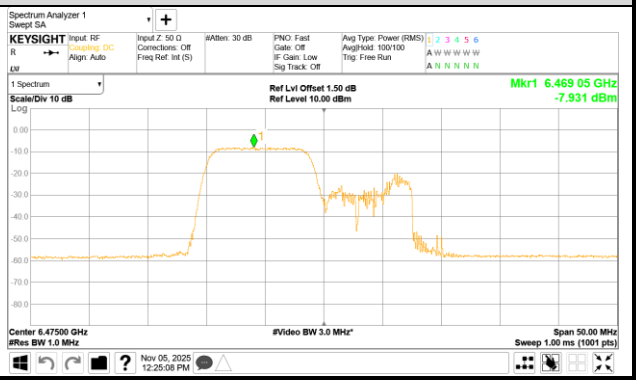


Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
106T	53	802.11be-EHT20	6	6475

AUX



Main



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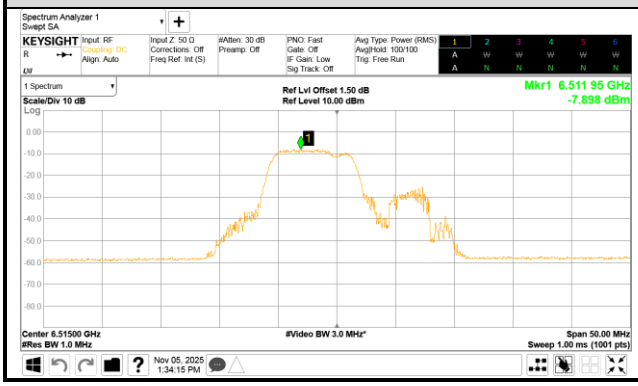
Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
26T+52T	71	802.11be-EHT20	6	6515

AUX



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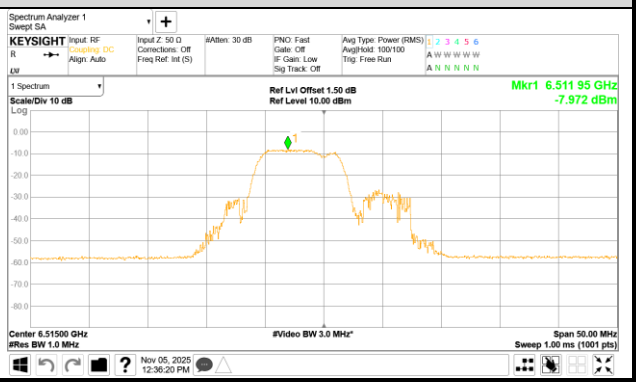
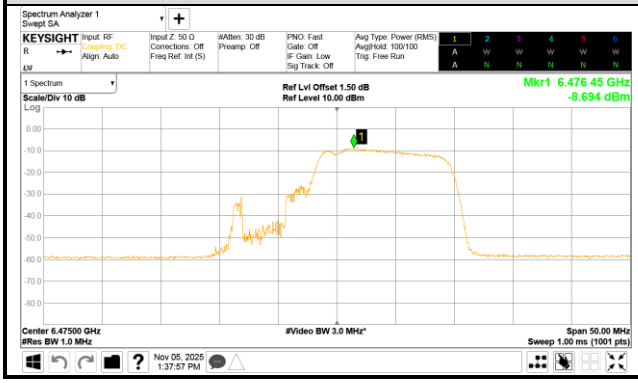
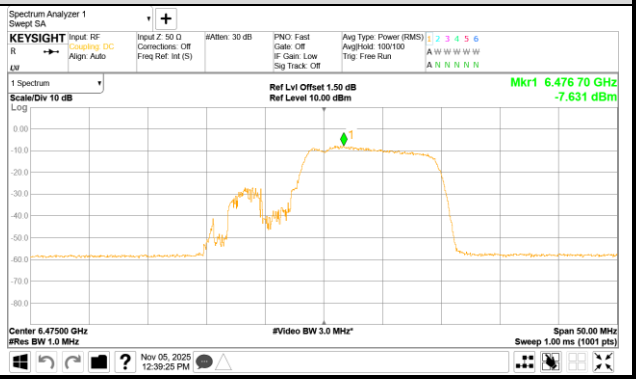


Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
26T+106T	83	802.11be-EHT20	6	6475

AUX

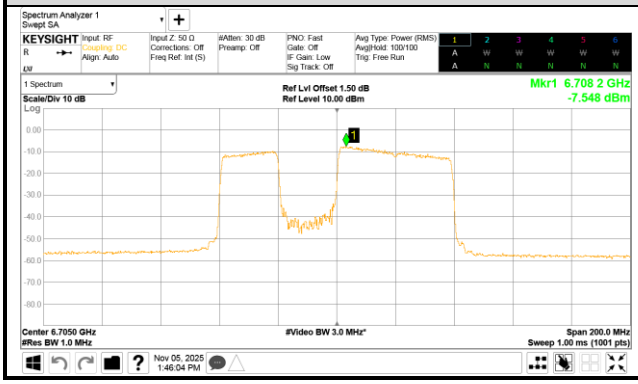


Main

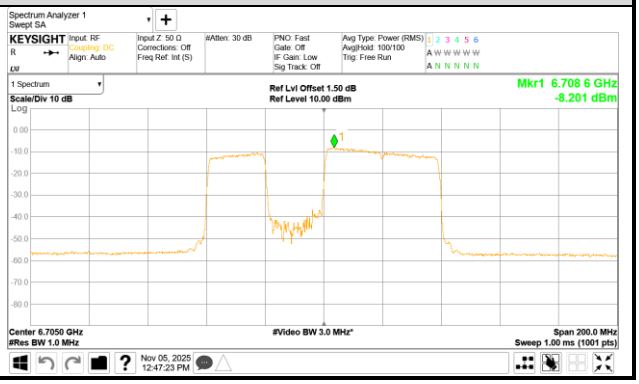


Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
484T+242T	91	802.11be-EHT80	7	6705

AUX



Main



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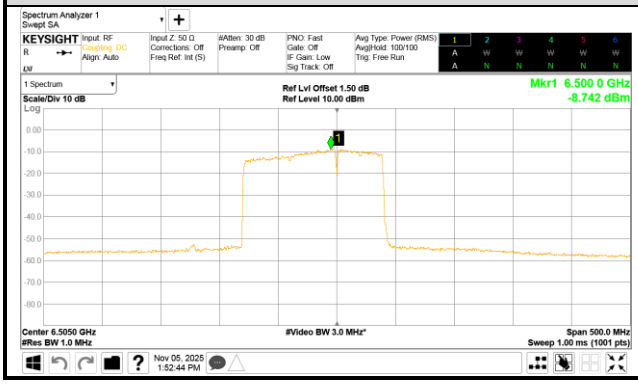
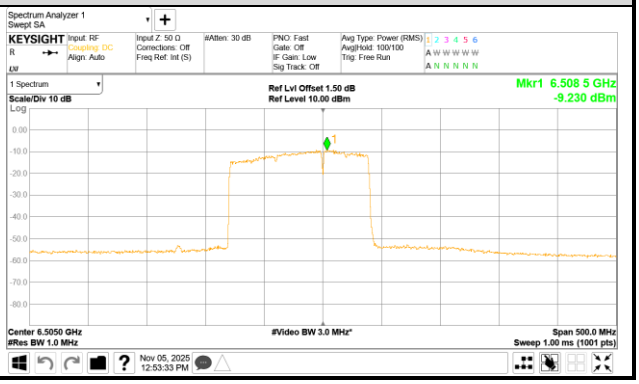
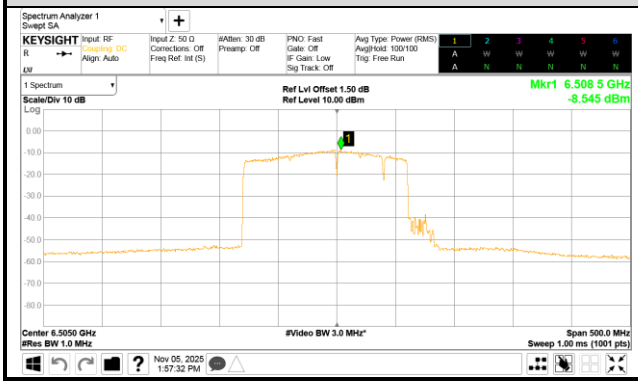
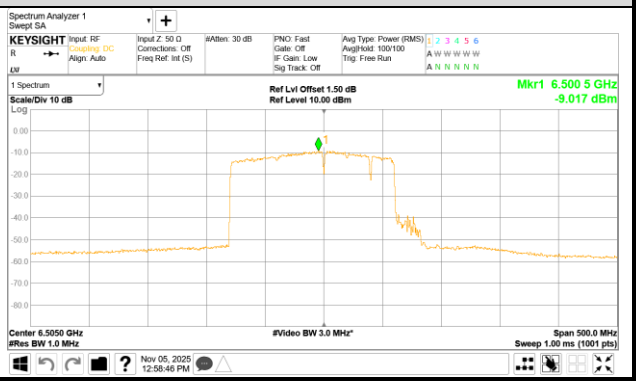
Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
996T+484T	s95	802.11be-EHT160	6	6505

AUX	Main
	

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)
996T+484T+242T	s99	802.11be-EHT160	5	6505

AUX	Main
	

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