

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	2024/10/14~16	Temp./Hum.	23 ~ 24°C/59 ~ 62%
Cable Loss	4.47dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Power Spectral Density Result

● OFDM Modulation

Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total Power Spectral Density (dBm/1MHz) ^{Note2}	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-9.043	-10.812	N/A	2.46	-4.37	-1
		6175	-9.655	-10.332		2.46	-4.51	
		6415	-9.115	-10.136		2.46	-4.13	
	6	6435	-9.169	-9.869		2.50	-3.99	
		6475	-9.396	-10.815		2.50	-4.54	
		6515	-8.973	-10.608		2.50	-4.20	
	7	6535	-8.981	-10.154		2.31	-4.21	
		6695	-9.792	-9.145		2.31	-4.14	
		6855	-9.179	-9.892		2.31	-4.20	
	8	6875	-9.022	-9.726		2.11	-4.24	
		6995	-9.306	-9.449		2.11	-4.26	
		7115	-18.483	-17.914		2.11	-13.07	
802.11ax-HE40	5	5965	-8.945	-9.346	N/A	2.46	-3.67	-1
		6165	-9.154	-9.517		2.46	-3.86	
		6405	-9.105	-10.094		2.46	-4.10	
	6	6445	-9.086	-10.063		2.50	-4.04	
		6485	-9.095	-10.351		2.50	-4.17	
	7	6525	-8.763	-9.509		2.31	-3.80	
		6685	-9.454	-8.956		2.31	-3.88	
		6845	-8.917	-10.616		2.31	-4.36	
	8	6885	-8.961	-10.177		2.11	-4.41	
		7005	-9.523	-10.006		2.11	-4.64	
		7085	-9.747	-9.059		2.11	-4.27	

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) ii), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi

5925~6425MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2] = 2.46$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{2.6/10} + 10^{2.4/10})/2] = 2.50$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.2/10} + 10^{3.2/10})/2] = 2.31$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

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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			AUX	Main				
802.11ax-HE80	5	5985	-9.945	-10.090	N/A	2.46	-4.55	-1
		6145	-10.152	-10.204		2.46	-4.71	
		6385	-9.745	-10.569		2.46	-4.67	
	6	6465	-9.751	-10.334		2.50	-4.52	
		6545	-9.452	-9.632		2.50	-4.03	
	7	6625	-9.667	-9.174		2.31	-4.09	
		6705	-9.967	-9.467		2.31	-4.39	
		6785	-9.835	-10.034		2.31	-4.61	
	8	6865	-9.309	-10.183		2.11	-4.60	
		6945	-9.422	-9.447		2.11	-4.31	
		7025	-10.182	-9.539		2.11	-4.73	
802.11ax-HE160	5	6025	-9.872	-11.113	N/A	2.46	-4.98	-1
		6185	-10.145	-10.567		2.46	-4.88	
		6345	-9.666	-10.773		2.46	-4.71	
	6	6505	-9.727	-9.676		2.50	-4.19	
		6665	-9.591	-9.332		2.31	-4.14	
	7	6825	-9.647	-9.897		2.31	-4.45	
		6985	-9.995	-9.562		2.11	-4.65	
	8	6985	-9.995	-9.562		2.11	-4.65	

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

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6875~7125MHz: Directional gain = $10 \log[(10^{1.3/10} + 10^{2.8/10})/2] = 2.11$ dBi

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			AUX	Main				
802.11be-EHT20	5	5955	-10.054	-10.251	N/A	2.46	-4.68	-1
		6175	-10.178	-10.044		2.46	-4.64	
		6415	-9.695	-10.421		2.46	-4.57	
	6	6435	-9.501	-10.181		2.50	-4.32	
		6475	-9.738	-10.551		2.50	-4.62	
		6515	-9.215	-10.063		2.50	-4.11	
	7	6535	-9.261	-9.314		2.31	-3.97	
		6695	-9.938	-9.056		2.31	-4.15	
		6855	-9.325	-9.731		2.31	-4.20	
	8	6875	-9.378	-10.124		2.11	-4.61	
		6995	-9.841	-9.670		2.11	-4.63	
		7115	-17.908	-16.964		2.11	-12.29	
802.11be-EHT40	5	5965	-9.408	-9.876	N/A	2.46	-4.17	-1
		6165	-9.458	-10.123		2.46	-4.31	
		6405	-8.876	-9.521		2.46	-3.72	
	6	6445	-9.054	-9.396		2.50	-3.71	
		6485	-9.336	-9.334		2.50	-3.82	
	7	6525	-8.781	-9.052		2.31	-3.59	
		6685	-9.318	-9.188		2.31	-3.93	
		6845	-9.068	-9.853		2.31	-4.12	
	8	6885	-8.573	-9.524		2.11	-3.90	
		7005	-9.636	-9.446		2.11	-4.42	
		7085	-9.813	-8.731		2.11	-4.12	

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

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			AUX	Main				
802.11be-EHT80	5	5985	-9.687	-9.569	N/A	2.46	-4.16	-1
		6145	-9.883	-9.825		2.46	-4.38	
		6385	-9.594	-9.811		2.46	-4.23	
	6	6465	-9.728	-9.715		2.50	-4.21	
		6545	-9.377	-9.199		2.50	-3.78	
		6625	-9.375	-9.083		2.31	-3.91	
	7	6705	-9.839	-9.312		2.31	-4.25	
		6785	-9.588	-9.853		2.31	-4.40	
	8	6865	-9.189	-10.415		2.11	-4.64	
		6945	-9.440	-9.716		2.11	-4.46	
		7025	-9.489	-9.311		2.11	-4.28	
802.11be-EHT160	5	6025	-9.841	-9.971	N/A	2.46	-4.44	-1
		6185	-10.236	-10.190		2.46	-4.74	
		6345	-9.776	-10.362		2.46	-4.59	
	6	6505	-9.614	-9.650		2.50	-4.12	
		6665	-9.584	-8.849		2.31	-3.88	
		6825	-9.496	-9.739		2.31	-4.30	
	8	6985	-9.596	-9.391		2.11	-4.37	
		6105	-10.037	-9.884		2.46	-4.49	
802.11be-EHT320	5	6265	-9.609	-9.927	N/A	2.46	-4.29	-1
		6425	-9.521	-10.073		2.46	-4.32	
		6585	-9.452	-9.414		2.50	-3.92	
	7	6745	-9.156	-9.265		2.31	-3.89	
		6905	-10.786	-10.493		2.11	-5.52	

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

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● OFDMA Modulation

Tones	RU Index	Modulation Type	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) Note3	Total Power Spectral Density (dBm/1MHz) Note2	Limit (dBm/MHz)
					AUX	Main				
26T	18	802.11ax-HE80	7	6625	-7.568	-7.819	N/A	2.31	-2.37	-1
52T	52	802.11ax-HE160	7	6665	-9.938	-7.957	N/A	2.31	-3.52	
106T	53	802.11ax-HE160	8	6825	-10.213	-8.823	N/A	2.31	-4.14	
242T	62	802.11ax-HE1160	7	6665	-9.390	-7.798	N/A	2.31	-3.20	
484T	66	802.11ax-HE80	7	6625	-10.821	-8.091	N/A	2.31	-3.92	
996T	67	802.11ax-HE160	6	6505	-10.430	-8.940	N/A	2.31	-4.30	

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					AUX	Main				
26	T36	802.11be-EHT320	6	6585	-10.151	-9.201	N/A	2.50	-4.14	-1
52	T52	802.11be-EHT320	6	6585	-9.786	-8.184	N/A	2.50	-3.40	
106	T56	802.11be-EHT320	6	6585	-9.296	-8.036	N/A	2.50	-3.11	
242	T64	802.11be-EHT320	6	6585	-9.445	-8.252	N/A	2.50	-3.30	
484	T66	802.11be-EHT320	6	6585	-9.564	-8.119	N/A	2.50	-3.27	
996	T67	802.11be-EHT320	6	6585	-9.214	-8.614	N/A	2.50	-3.39	
996x2	S68	802.11be-EHT320	6	6585	-10.142	-9.462	N/A	2.50	-4.28	
26+52	70	802.11be-EHT20	7	6515	-8.921	-8.735	N/A	2.50	-3.32	
26+52	70	802.11be-EHT40	7	6685	-10.153	-8.086	N/A	2.31	-3.68	
26+106	82	802.11be-EHT20	7	6515	-9.083	-8.860	N/A	2.50	-3.46	
26+106	82	802.11be-EH40	7	6685	-10.377	-7.732	N/A	2.31	-3.54	
484+242	90	802.11be-EHT80	6	6545	-9.528	-8.924	N/A	2.50	-3.71	
996+484	S95	802.11be-EHT160	6	6505	-10.152	-9.173	N/A	2.50	-4.12	
996+484+242	S96	802.11be-EHT160	6	6505	-10.890	-8.902	N/A	2.50	-4.27	
996x2+484	100	802.11be-EHT320	6	6585	-10.040	-8.329	N/A	2.50	-3.59	
996x3	104	802.11be-EHT320	5	6425	-10.727	-9.255	N/A	2.46	-4.46	
996x3+484	W106	802.11be-EHT320	5	6265	-10.298	-9.149	N/A	2.46	-4.22	

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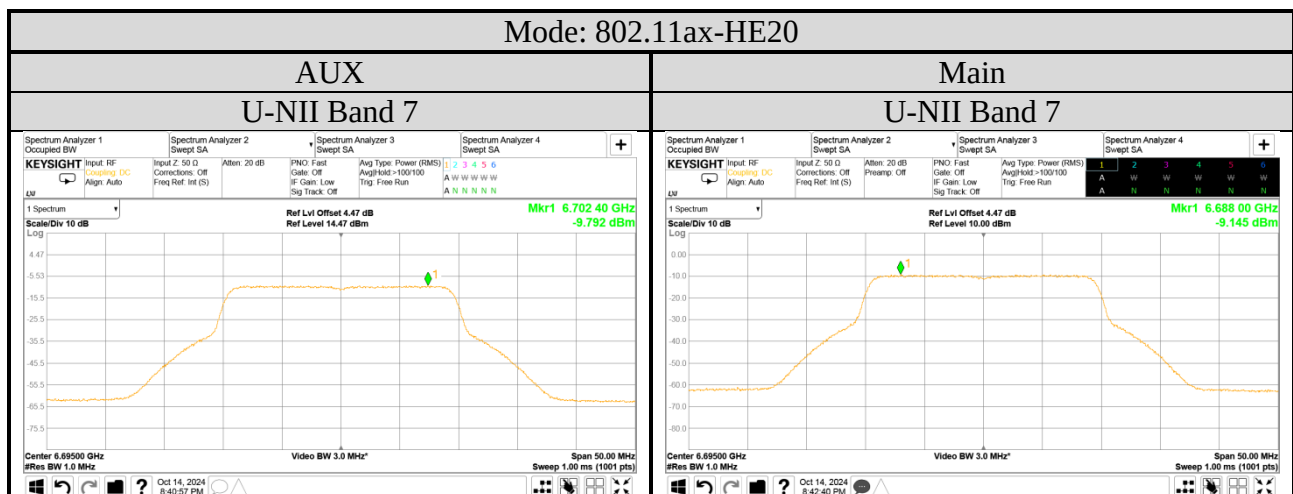
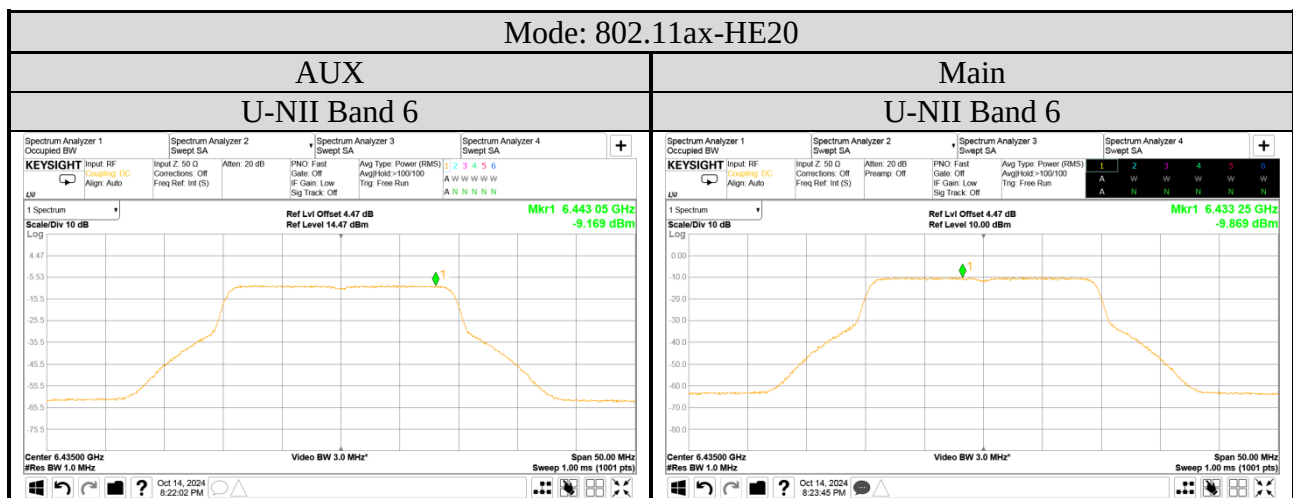
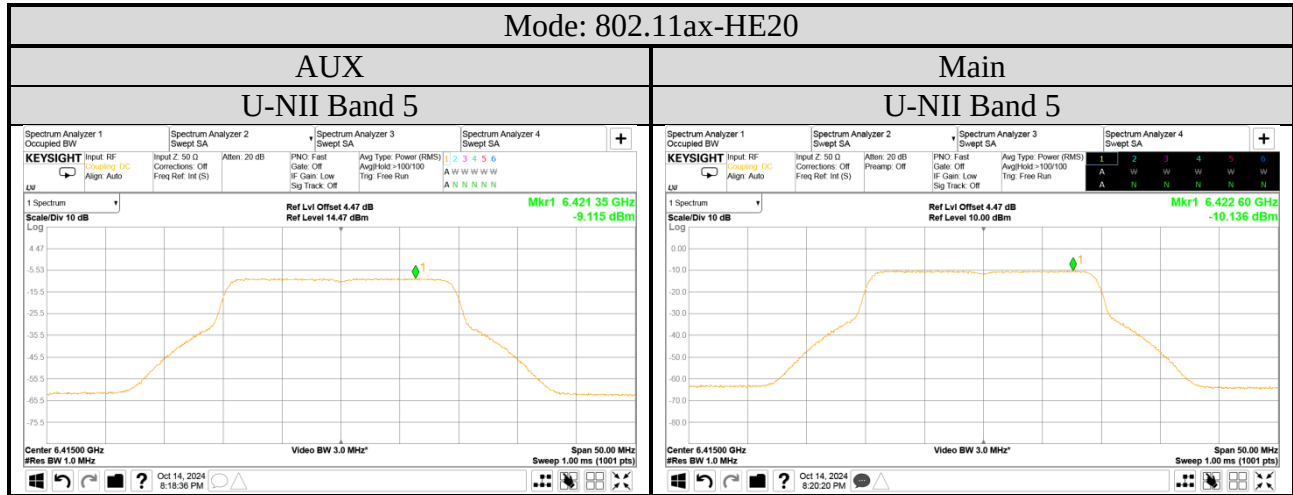
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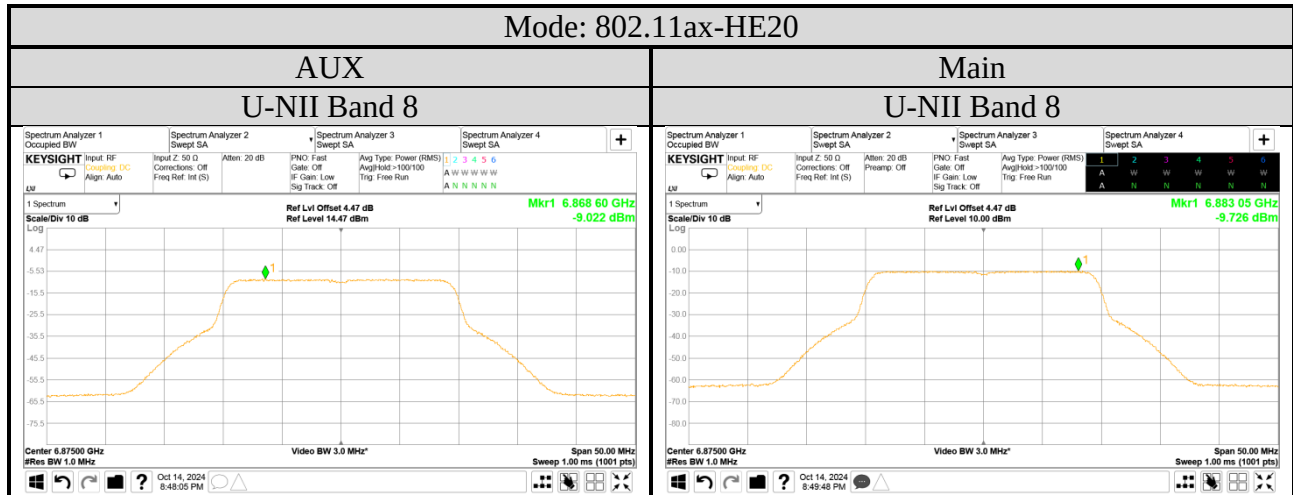
A.3.2 Measurement Plots

● OFDM Modulation



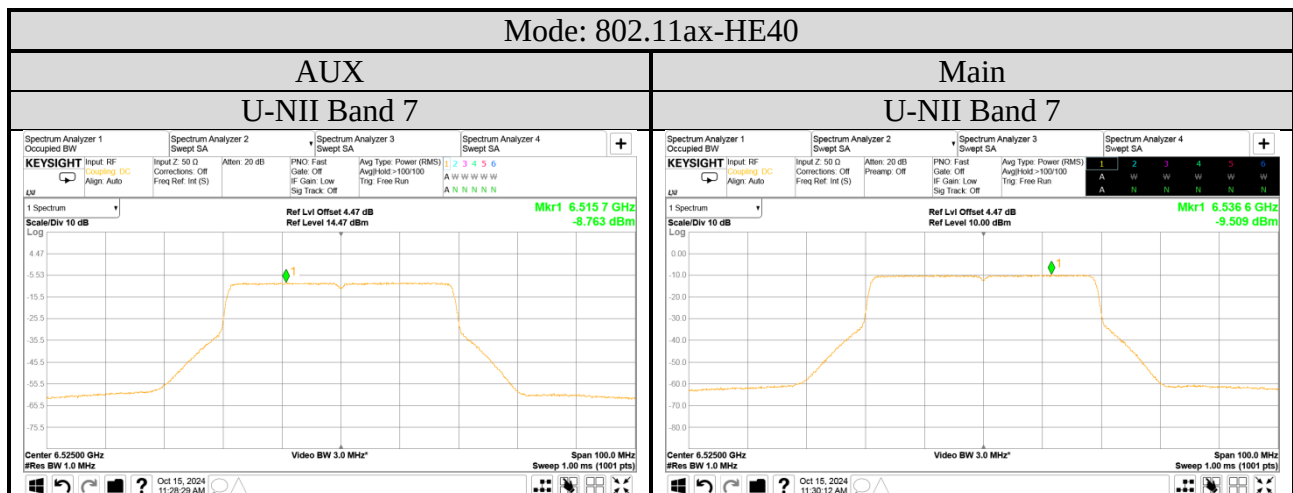
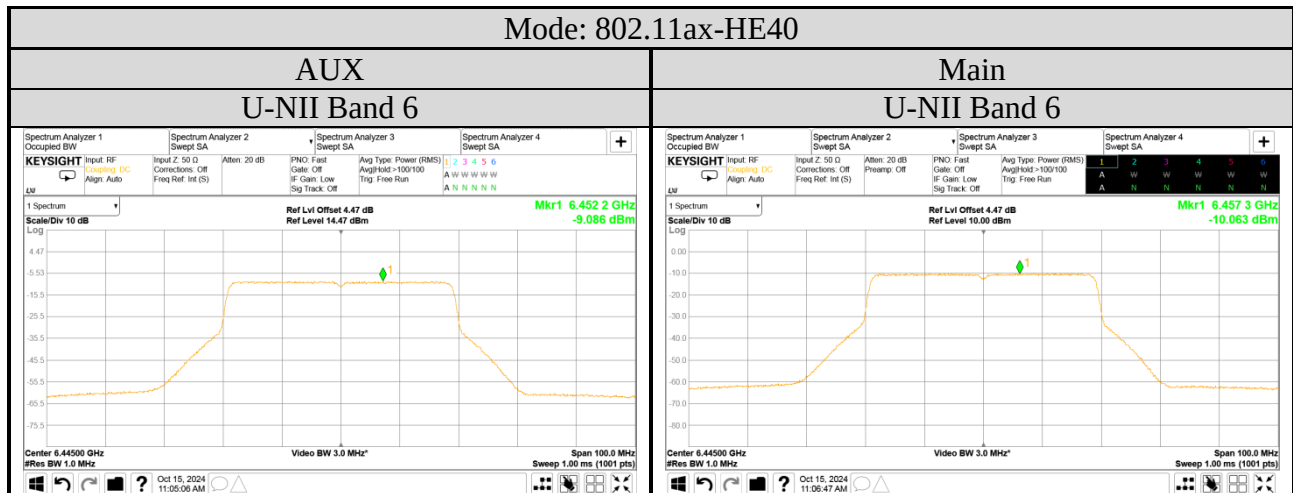
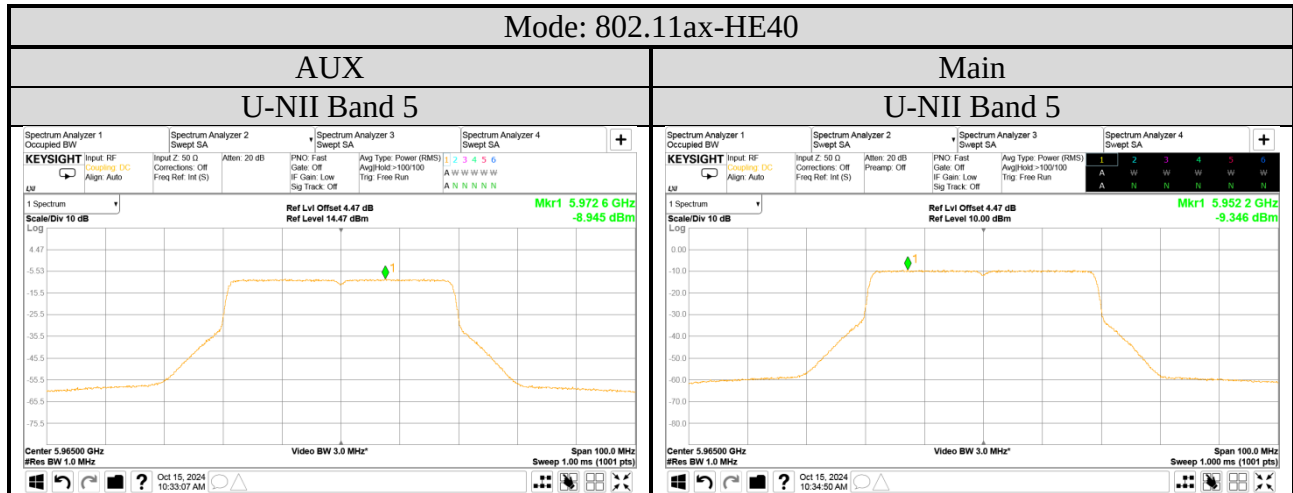
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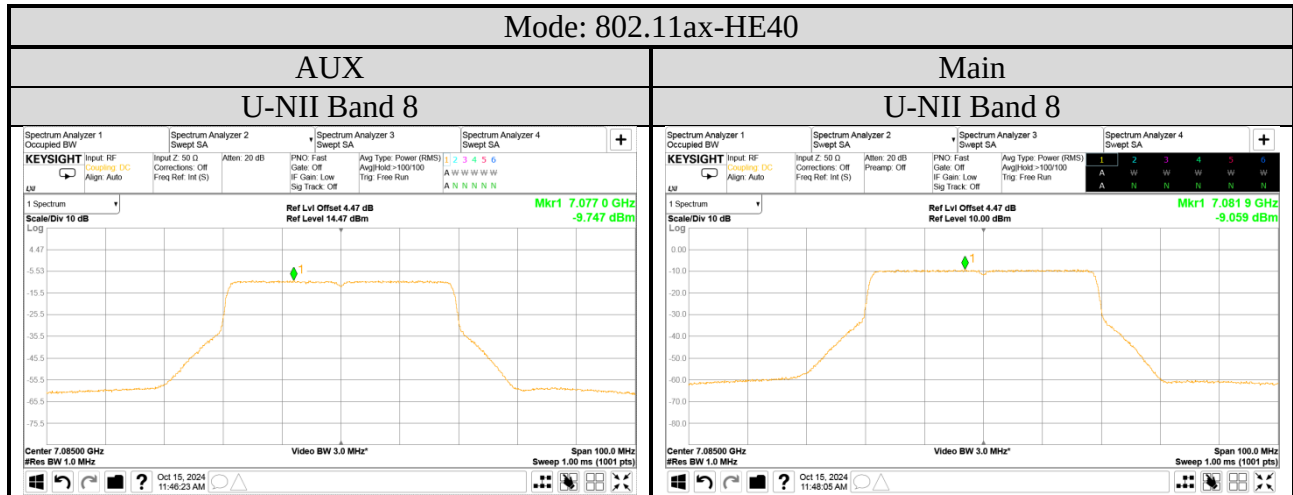
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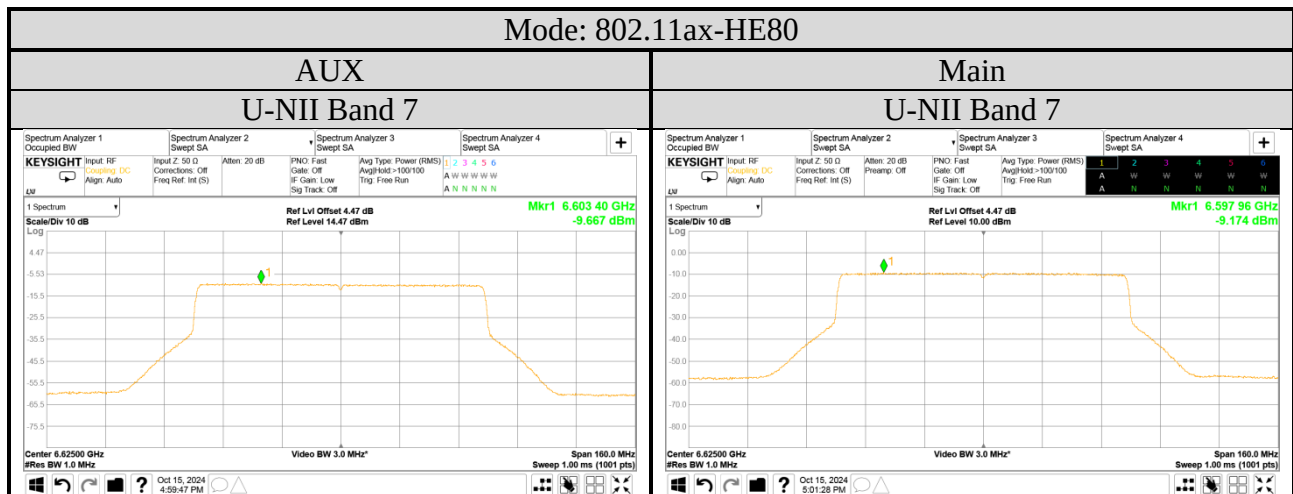
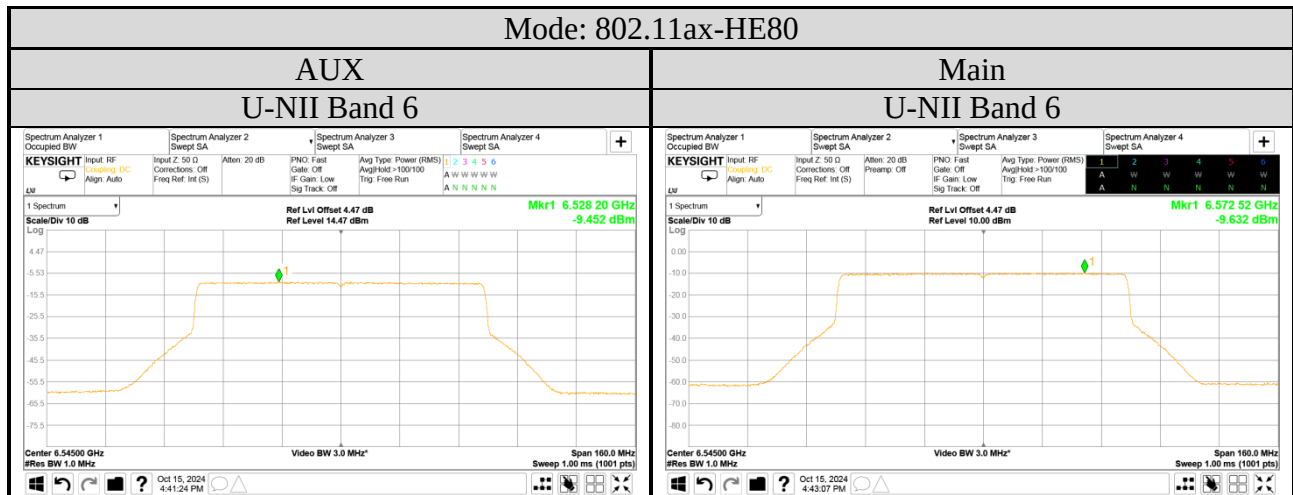
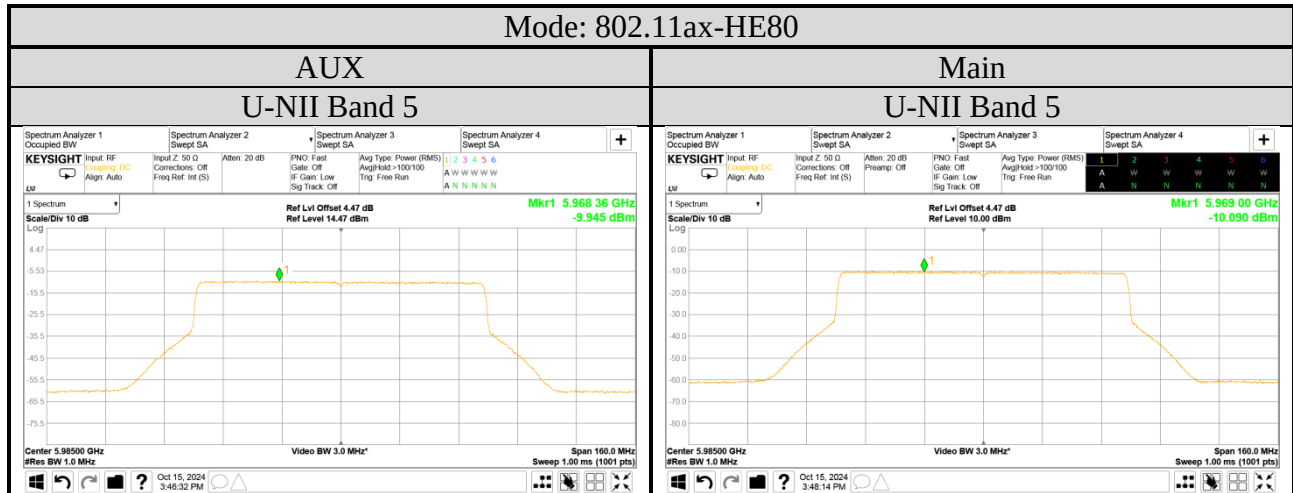
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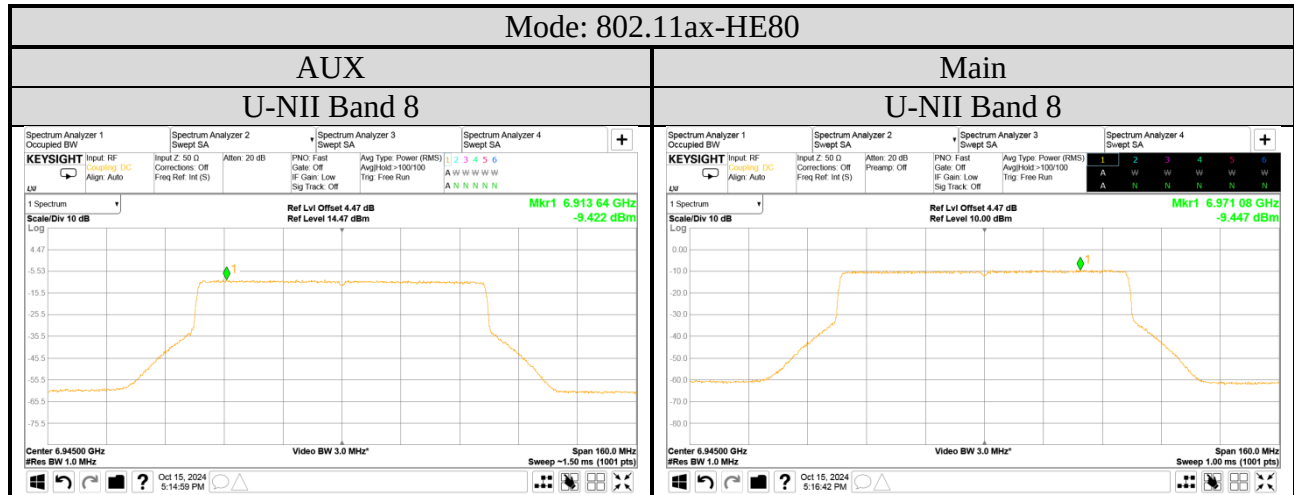
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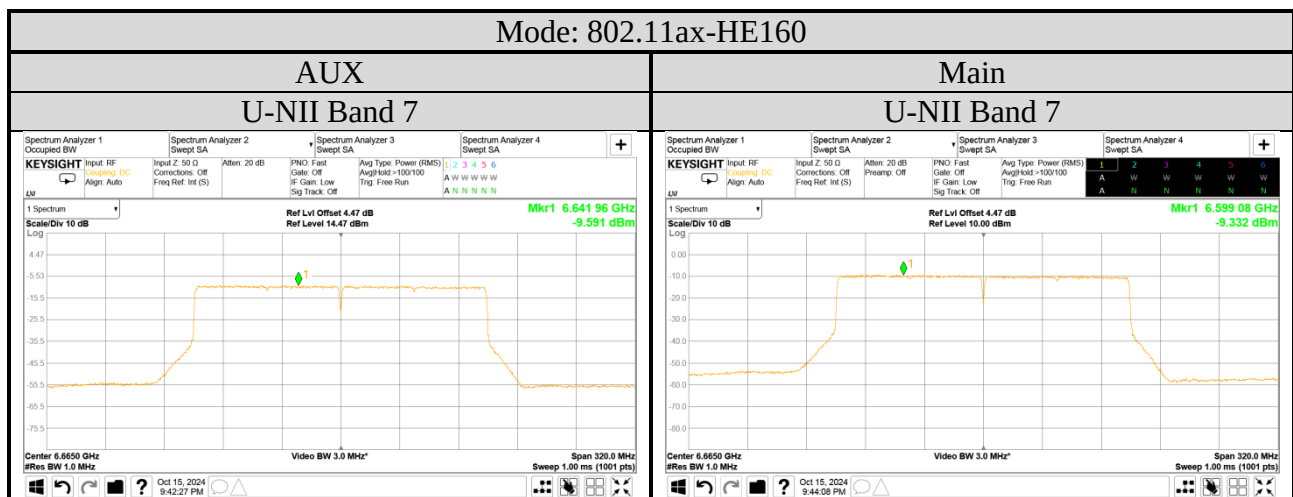
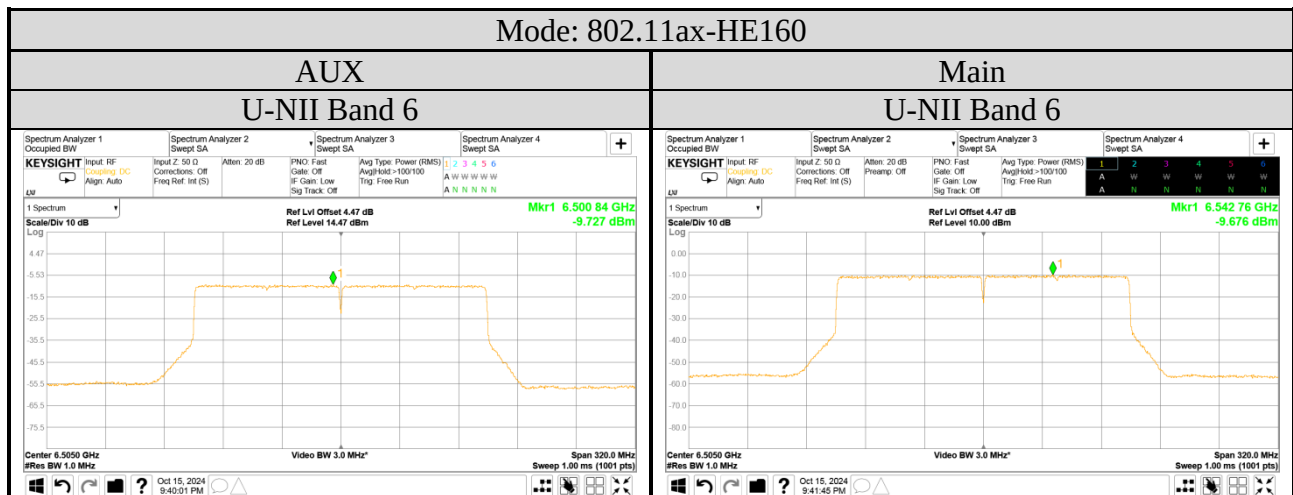
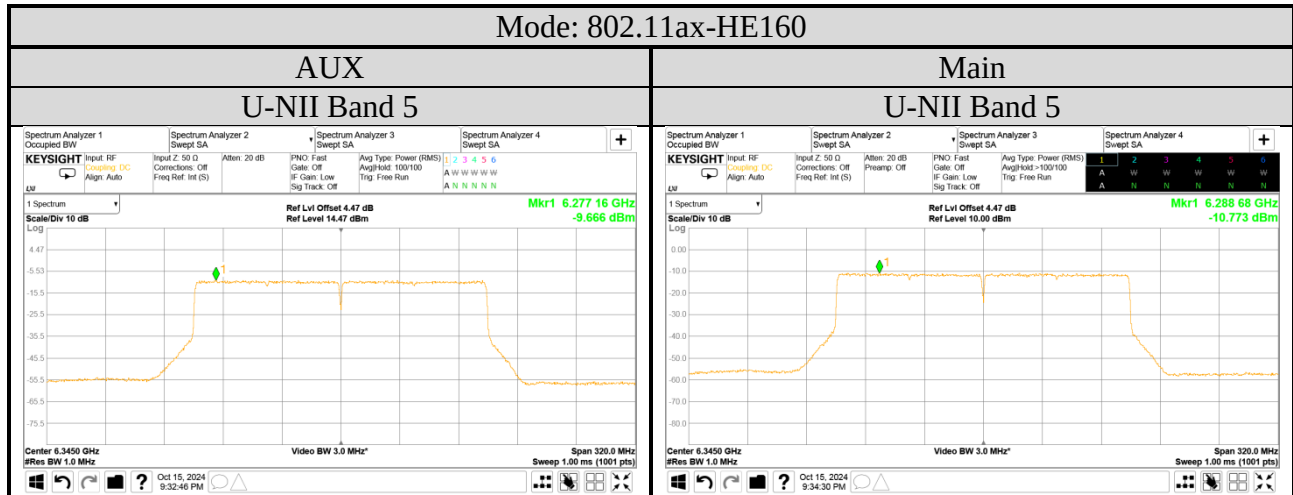
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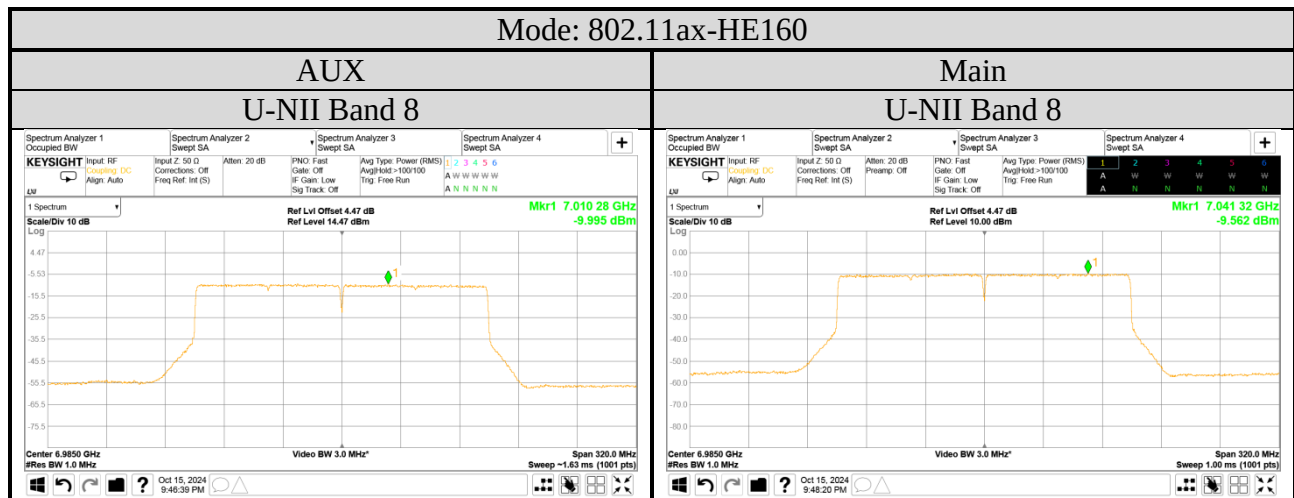
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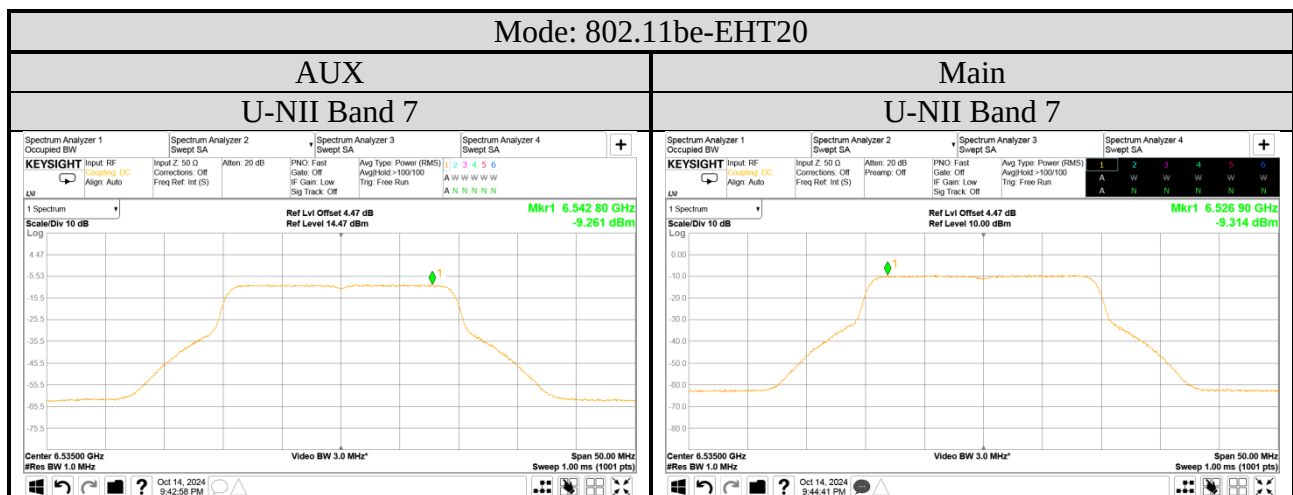
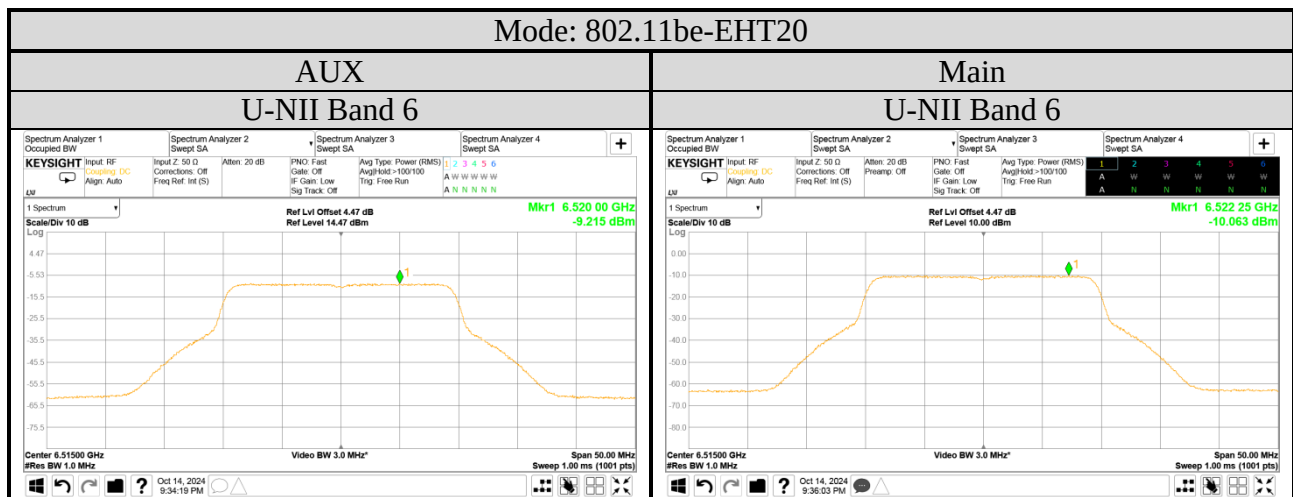
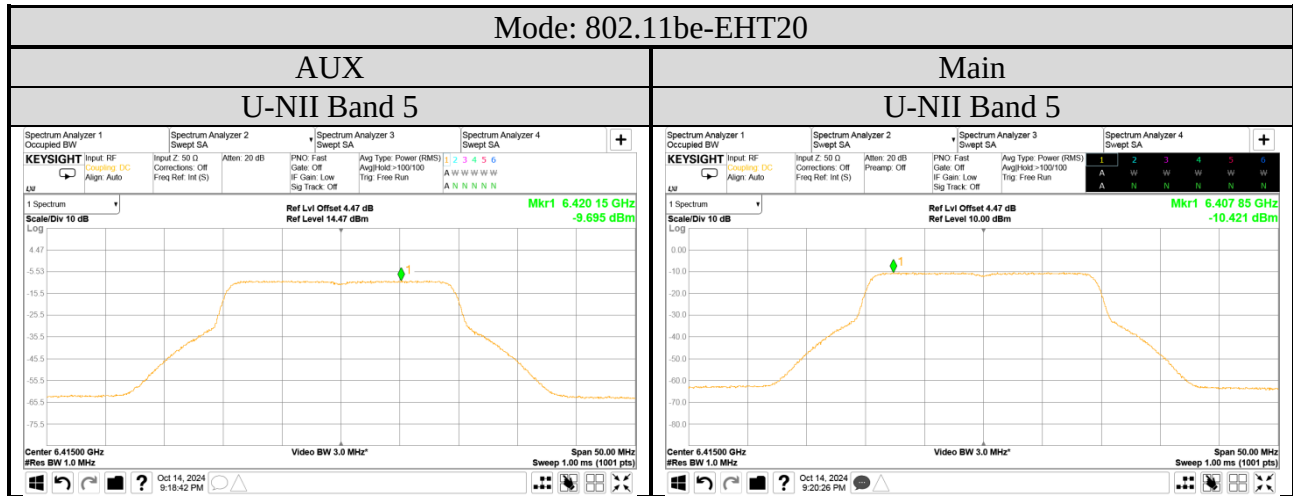
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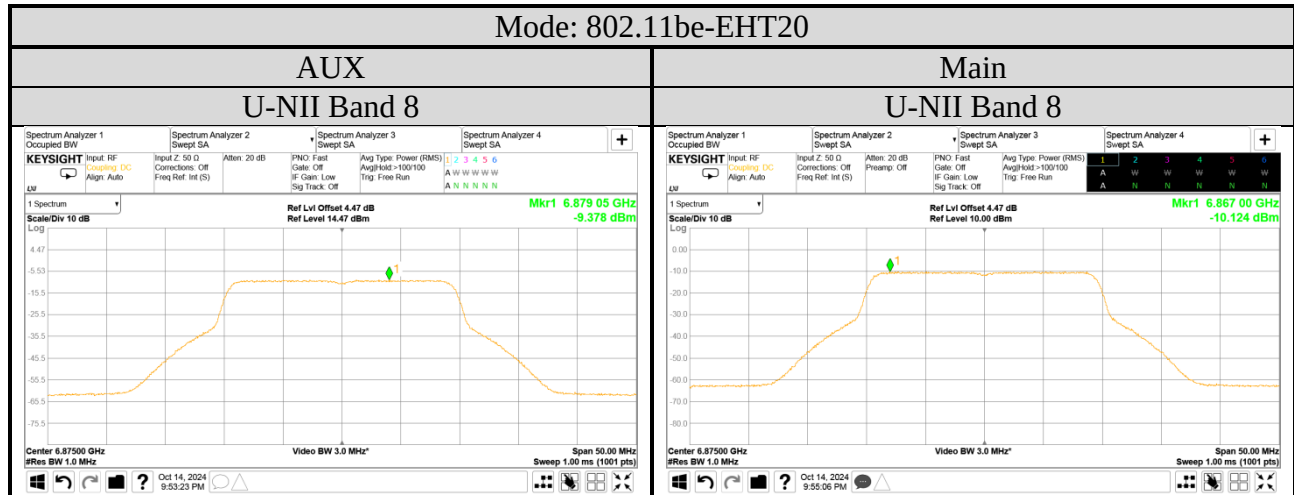
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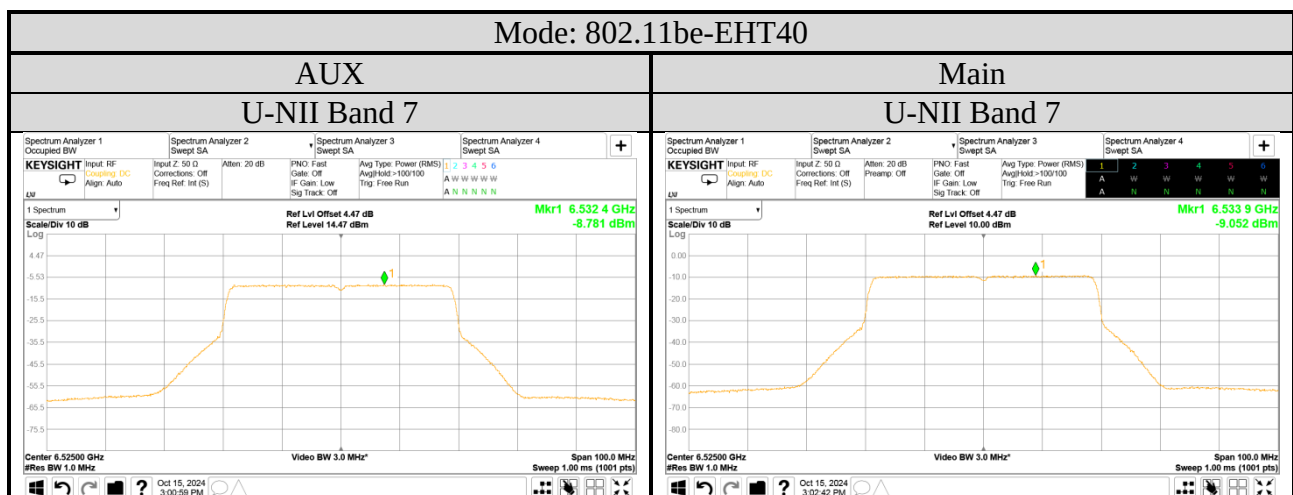
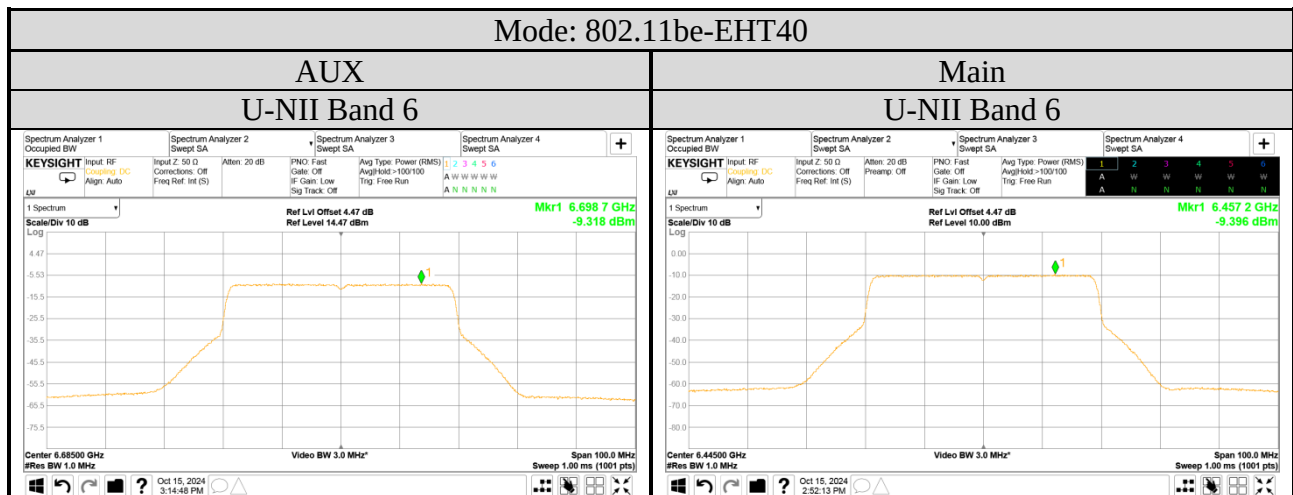
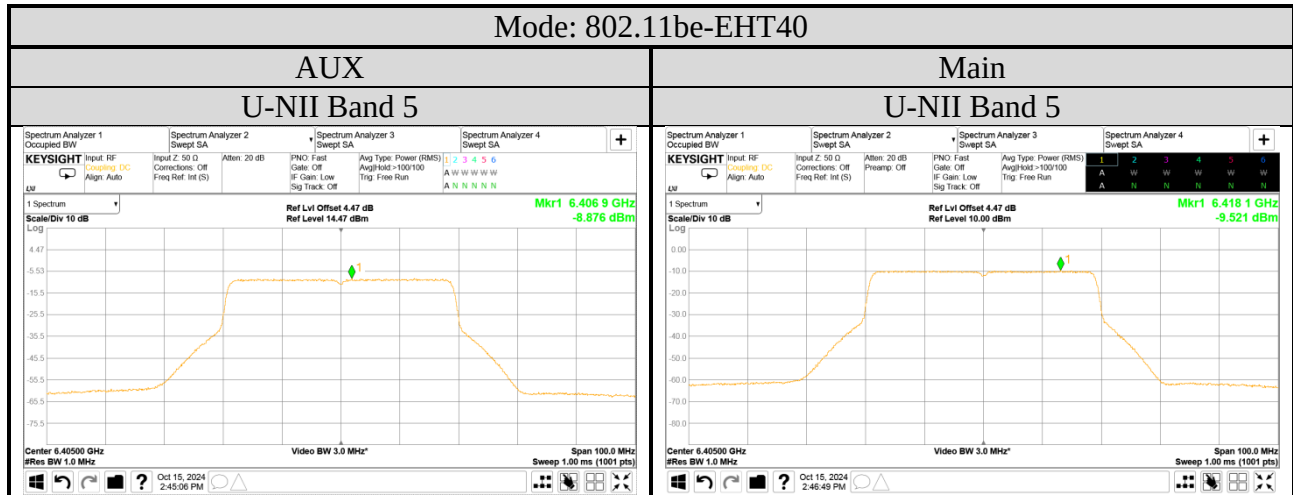
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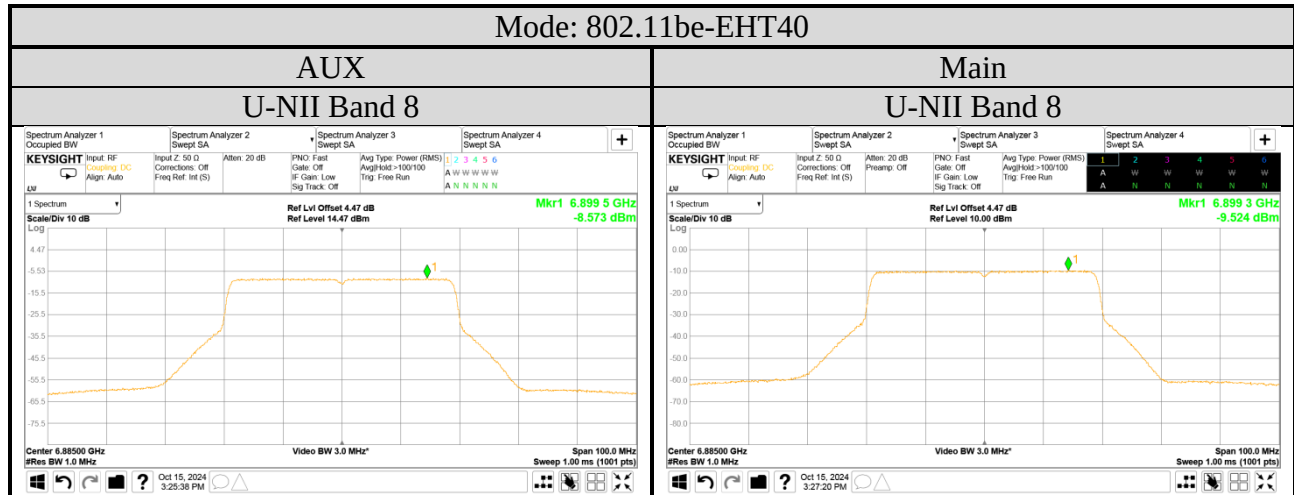
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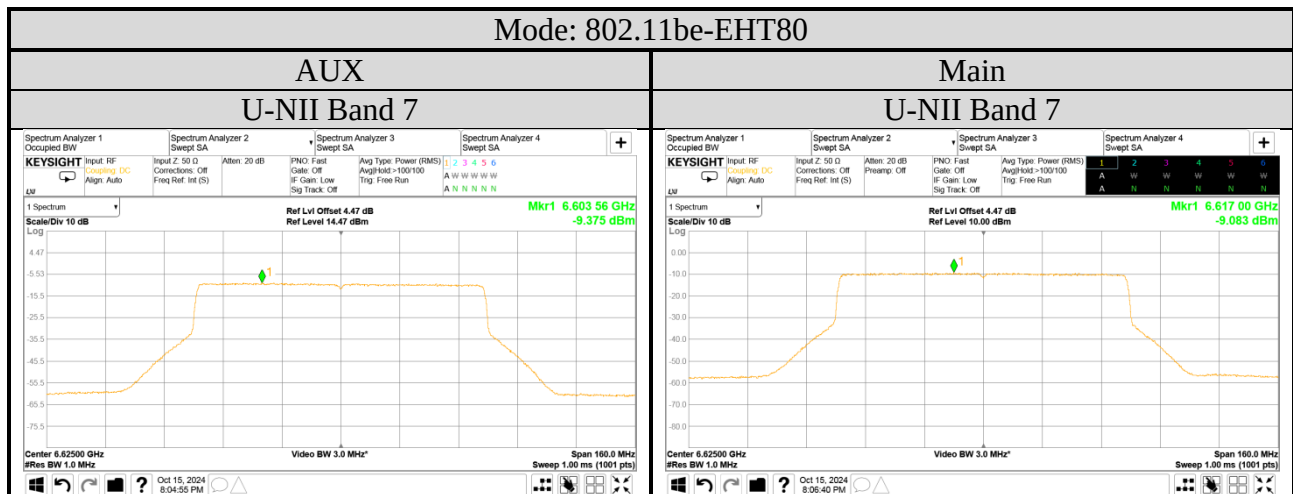
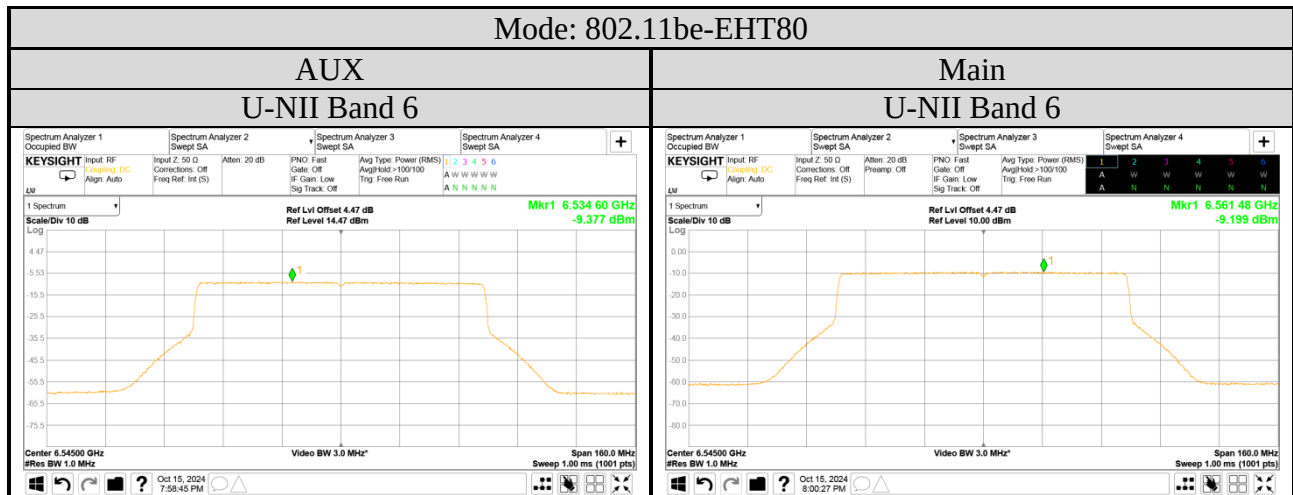
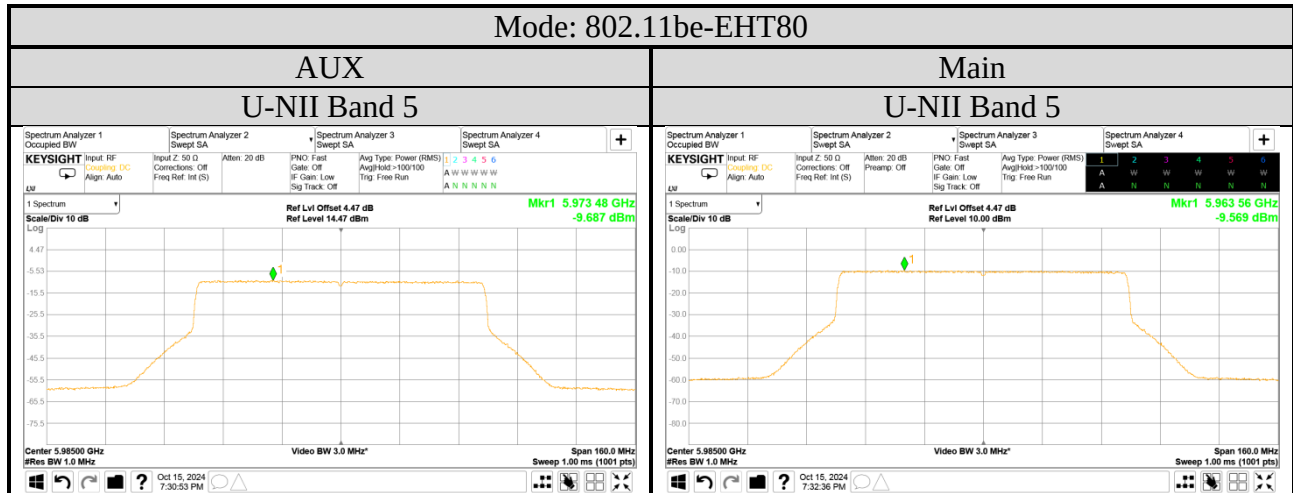
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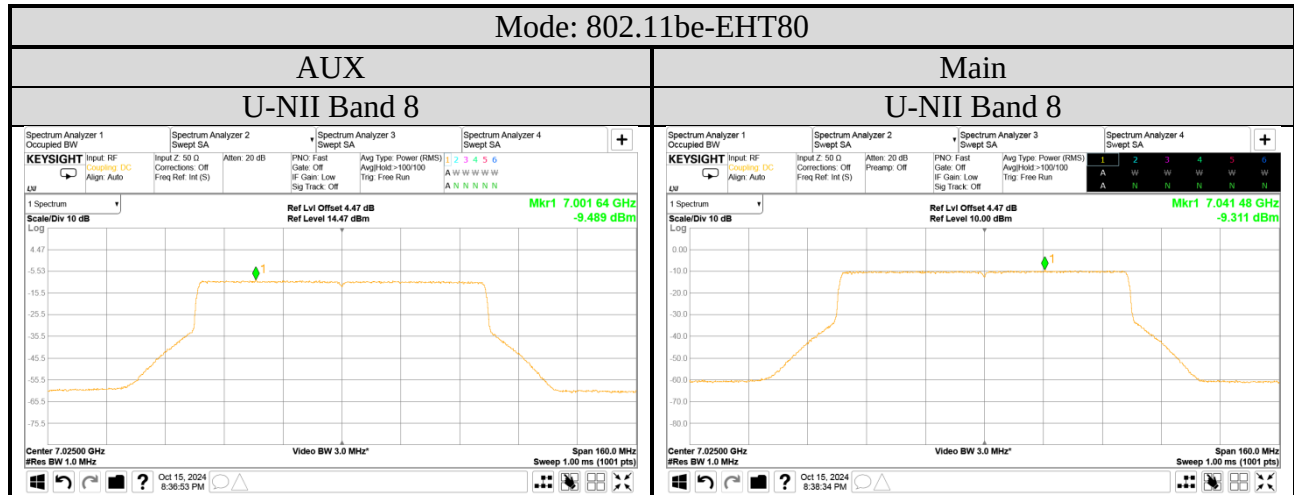
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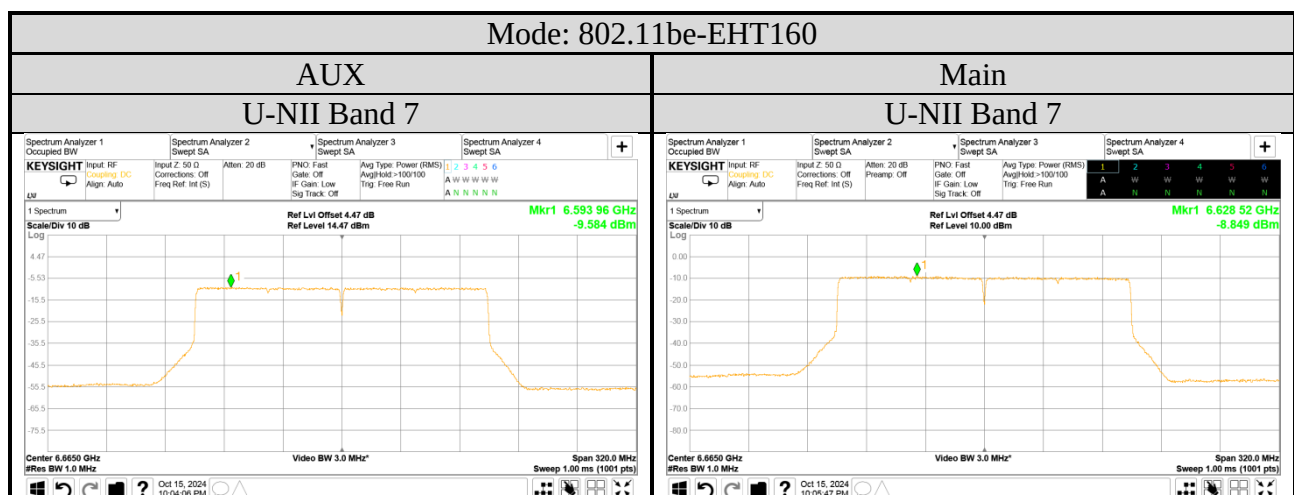
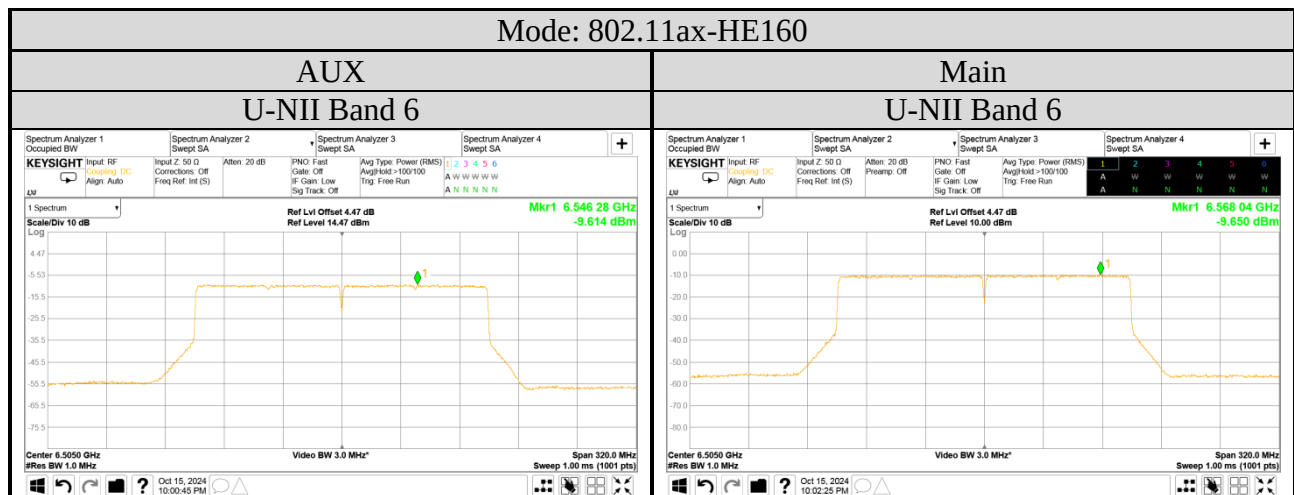
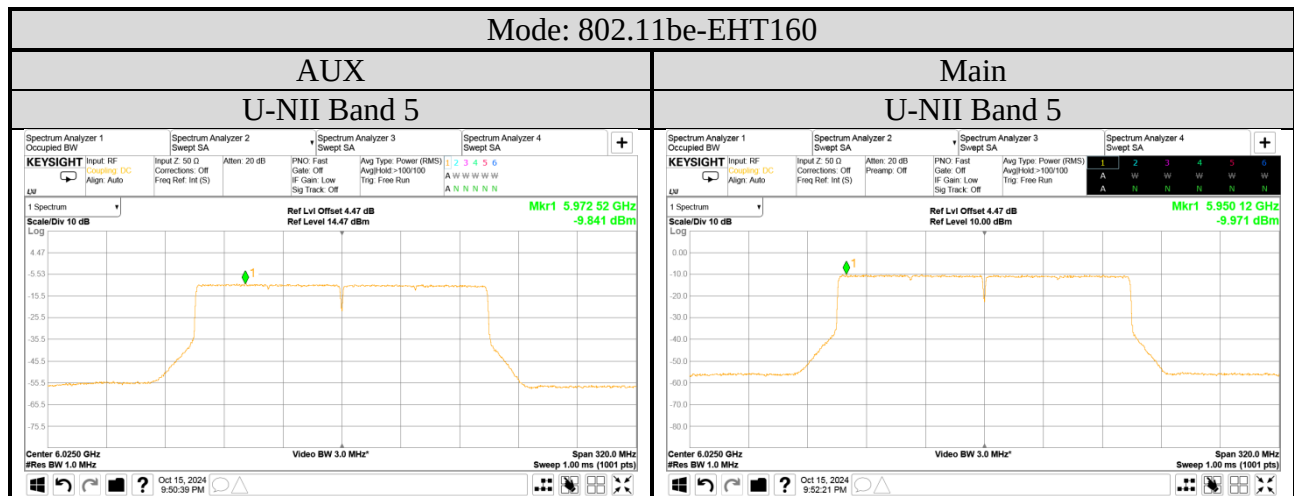
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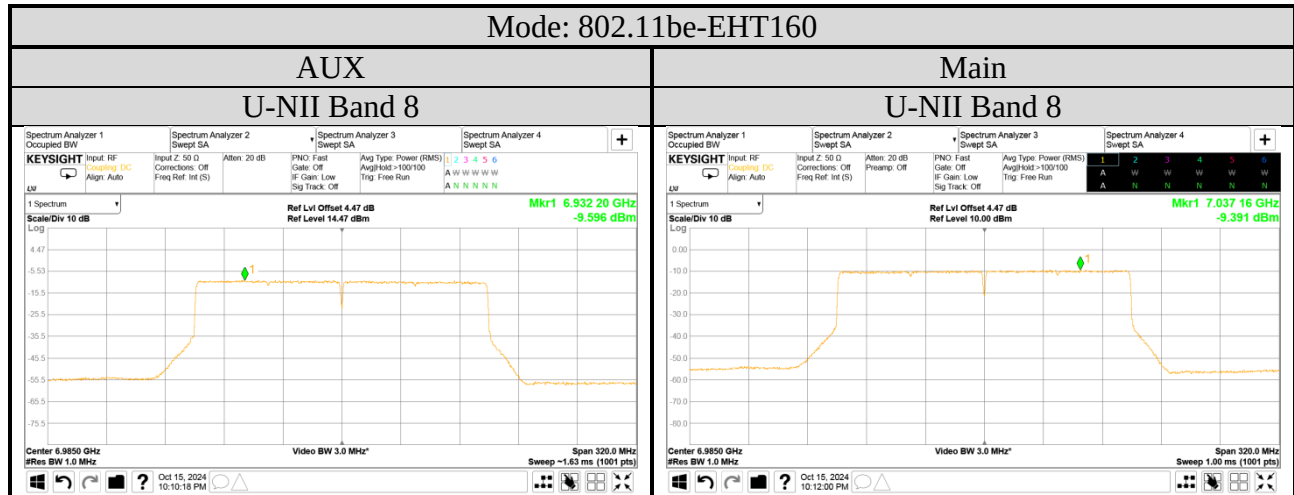
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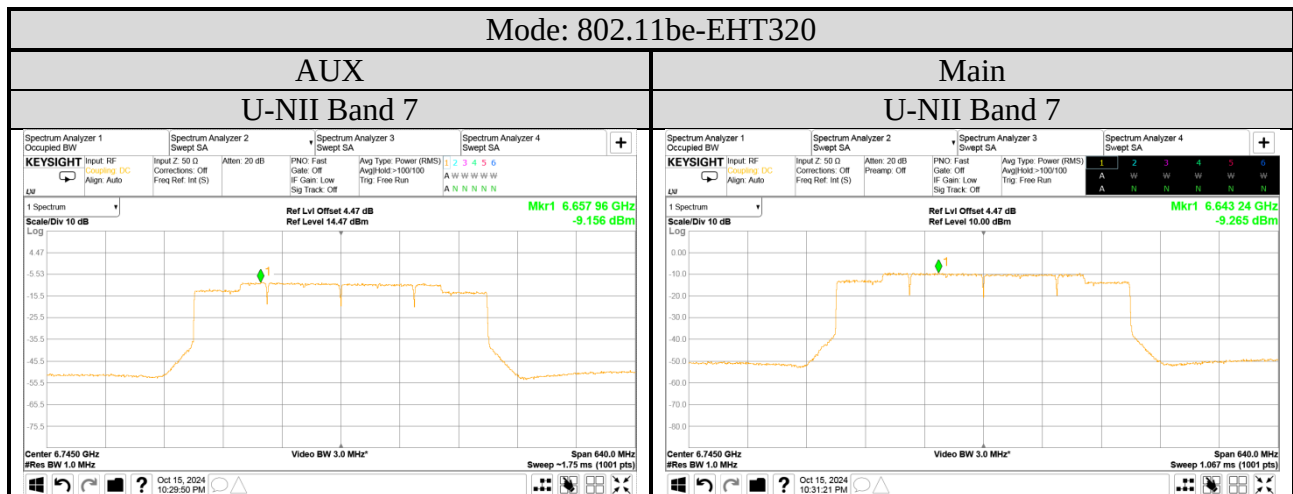
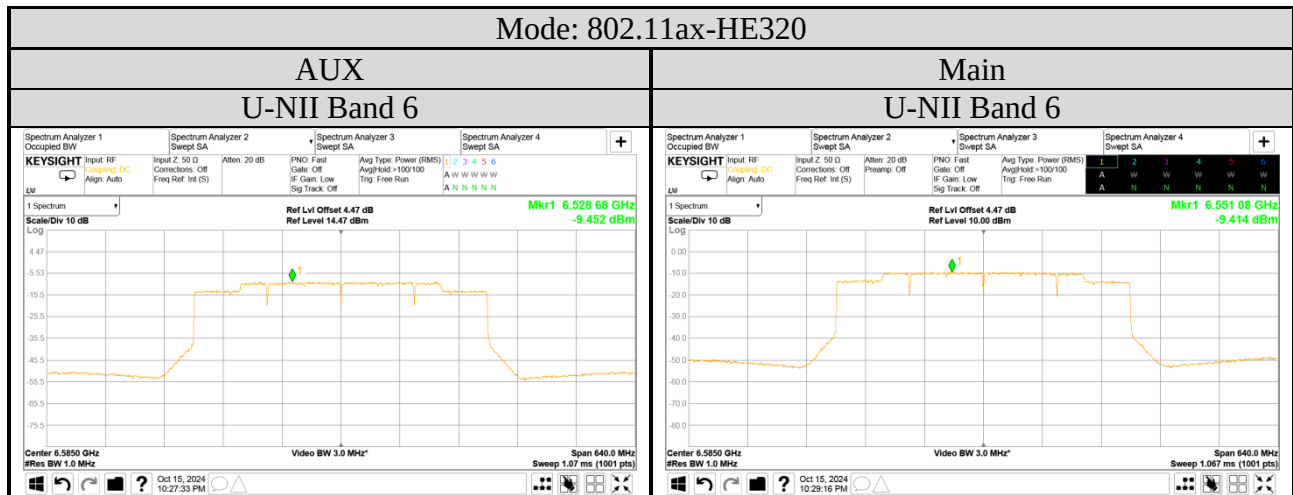
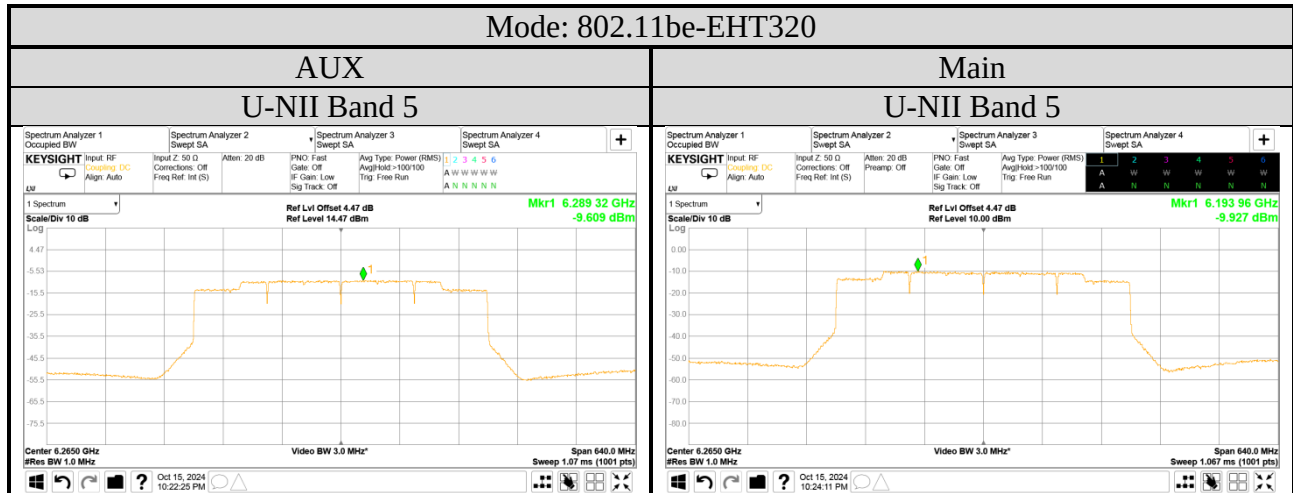
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