

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
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A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Date	2024/11/22 ~ 12/03	Temp./Hum.	21 ~ 23°C/57 ~ 68%
Cable Loss	4.47dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Power Spectral Density Result

● OFDM Modulation

Antenna: INPAQ

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) ^{Note 2}	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-9.349	-9.437	N/A	1.80	-4.58	-1
		6175	-9.018	-10.165		1.80	-4.74	
		6415	-9.012	-9.699		1.80	-4.53	
	6	6435	-7.979	-9.846		1.16	-4.64	
		6475	-8.266	-9.911		1.16	-4.84	
		6515	-7.866	-9.857		1.16	-4.58	
	7	6535	-7.997	-9.771		1.76	-4.02	
		6695	-8.556	-10.047		1.76	-4.47	
		6855	-8.498	-9.549		1.76	-4.22	
	8	6875	-8.260	-9.399		1.60	-4.18	
		6995	-8.893	-9.671		1.60	-4.65	
		7115	-17.125	-18.270		1.60	-13.05	
802.11ax-HE40	5	5965	-9.172	-10.059	N/A	1.80	-4.78	-1
		6165	-9.003	-9.921		1.80	-4.63	
		6405	-8.587	-10.433		1.80	-4.60	
	6	6445	-8.302	-10.300		1.16	-5.02	
		6485	-8.385	-10.048		1.16	-4.97	
	7	6525	-8.356	-9.668		1.76	-4.19	
		6685	-8.825	-9.663		1.76	-4.45	
		6845	-8.698	-10.027		1.76	-4.54	
	8	6885	-8.631	-9.619		1.60	-4.49	
		7005	-8.265	-9.580		1.60	-4.26	
		7085	-8.860	-9.305		1.60	-4.47	

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 = $10 \log[(10^{1.7/10} + 10^{1.9/10})/2] = 1.80$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{0.9/10} + 10^{1.4/10})/2] = 1.16$ dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.5/10} + 10^{2.0/10})/2] = 1.76$ dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.4/10} + 10^{1.8/10})/2] = 1.60$ 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).

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

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			AUX	Main				
802.11ax-HE80	5	5985	-9.974	-9.624	N/A	1.80	-4.99	-1
		6145	-10.276	-10.213		1.80	-5.43	
		6385	-10.171	-10.116		1.80	-5.33	
	6	6465	-10.002	-10.282		1.16	-5.97	
		6545	-9.997	-9.834		1.16	-5.74	
	7	6625	-9.885	-9.152		1.76	-4.73	
		6705	-10.325	-9.790		1.76	-5.28	
		6785	-10.336	-9.764		1.76	-5.27	
	8	6865	-10.071	-9.758		1.76	-5.14	
		6945	-9.829	-9.855		1.60	-5.23	
		7025	-9.516	-9.387		1.60	-4.84	
802.11ax-HE160	5	6025	-9.901	-9.340	N/A	1.80	-4.80	
		6185	-10.692	-9.648		1.80	-5.33	
		6345	-9.977	-9.430		1.80	-4.88	
	6	6505	-9.683	-9.135		1.16	-5.23	
		6665	-9.788	-9.077		1.76	-4.65	
	7	6825	-9.914	-9.410		1.76	-4.88	
		6985	-10.048	-9.528		1.60	-5.17	
	8	6985	-10.048	-9.528		1.60	-5.17	

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.

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6425~6525MHz: Directional gain = $10 \log[(10^{0.9/10} + 10^{1.4/10})/2]$ = 1.16dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.5/10} + 10^{2.0/10})/2]$ = 1.76dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.4/10} + 10^{1.8/10})/2]$ = 1.60dBi

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			AUX	Main				
802.11be-EHT20	5	5955	-9.071	-9.744	N/A	1.80	-4.58	-1
		6175	-9.197	-11.264		1.80	-5.30	
		6415	-8.908	-10.507		1.80	-4.82	
	6	6435	-8.664	-10.110		1.16	-5.16	
		6475	-8.530	-9.932		1.16	-5.00	
		6515	-8.357	-9.668		1.16	-4.79	
	7	6535	-8.507	-9.623		1.76	-4.26	
		6695	-8.892	-10.391		1.76	-4.81	
		6855	-9.175	-9.866		1.76	-4.74	
	8	6875	-9.100	-9.887		1.60	-4.87	
		6995	-8.601	-9.518		1.60	-4.43	
		7115	-17.215	-17.479		1.60	-12.73	
802.11be-EHT40	5	5965	-9.102	-10.276	N/A	1.80	-4.84	-1
		6165	-9.351	-10.860		1.80	-5.23	
		6405	-8.460	-10.654		1.80	-4.61	
	6	6445	-8.584	-10.859		1.16	-5.40	
		6485	-8.212	-10.588		1.16	-5.07	
	7	6525	-8.423	-10.122		1.76	-4.42	
		6685	-9.012	-10.074		1.76	-4.74	
		6845	-8.876	-10.065		1.76	-4.66	
	8	6885	-8.766	-9.950		1.60	-4.71	
		7005	-8.357	-9.835		1.60	-4.42	
		7085	-8.795	-9.644		1.60	-4.59	

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

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6425~6525MHz: Directional gain = $10 \log[(10^{0.9/10} + 10^{1.4/10})/2]$ = 1.16dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.5/10} + 10^{2.0/10})/2]$ = 1.76dBi

6875~7125MHz: Directional gain = $10 \log[(10^{1.4/10} + 10^{1.8/10})/2]$ = 1.60dBi

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			AUX	Main				
802.11be-EHT80	5	5985	-9.96	-9.12	N/A	1.80	-4.71	-1
		6145	-10.29	-9.64		1.80	-5.14	
		6385	-10.09	-9.70		1.80	-5.08	
	6	6465	-9.78	-9.80		1.16	-5.62	
		6545	-9.64	-9.34		1.16	-5.32	
		6625	-9.72	-9.06		1.76	-4.61	
	7	6705	-9.95	-9.44		1.76	-4.91	
		6785	-9.72	-9.37		1.76	-4.77	
	8	6865	-9.90	-9.46		1.76	-4.90	
		6945	-9.57	-9.55		1.60	-4.95	
		7025	-9.69	-9.43		1.60	-4.95	
802.11be-EHT160	5	6025	-10.00	-9.46	N/A	1.80	-4.91	-1
		6185	-10.06	-9.30		1.80	-4.85	
		6345	-9.91	-9.56		1.80	-4.92	
	6	6505	-9.50	-9.27		1.16	-5.21	
		6665	-9.84	-9.46		1.76	-4.87	
		6825	-9.87	-9.22		1.76	-4.76	
	8	6985	-9.90	-9.40		1.60	-5.03	
802.11be-EHT320	5	6105	-9.74	-9.21	N/A	1.80	-4.66	-1
		6265	-9.76	-9.21		1.80	-4.66	
		6425	-9.45	-9.22		1.80	-4.52	
	6	6585	-9.13	-8.82		1.76	-4.20	
		6745	-9.57	-8.89		1.76	-4.45	
	8	6905	-10.61	-10.12		1.60	-5.75	

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

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

5925~6425MHz: Directional gain = $10 \log[(10^{1.7/10} + 10^{1.9/10})/2]$ = 1.80dBi

6425~6525MHz: Directional gain = $10 \log[(10^{0.9/10} + 10^{1.4/10})/2]$ = 1.16dBi

6525~6875MHz: Directional gain = $10 \log[(10^{1.5/10} + 10^{2.0/10})/2]$ = 1.76dBi

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Antenna: LUXSHARE-ICT

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) ^{Note 2}	Limit (dBm/MHz)
			AUX	Main				
802.11ax-HE20	5	5955	-9.349	-9.437	N/A	4.61	-1.77	-1
		6175	-9.018	-10.165		4.61	-1.93	
		6415	-9.012	-9.699		4.61	-1.72	
	6	6435	-7.979	-9.846		2.36	-3.44	
		6475	-8.266	-9.911		2.36	-3.64	
		6515	-7.866	-9.857		2.36	-3.38	
	7	6535	-7.997	-9.771		2.44	-3.34	
		6695	-8.556	-10.047		2.44	-3.79	
		6855	-8.498	-9.549		2.51	-3.47	
	8	6875	-8.260	-9.399		2.51	-3.27	
		6995	-8.893	-9.671		2.51	-3.74	
		7115	-17.125	-18.270		2.51	-12.14	
802.11ax-HE40	5	5965	-9.172	-10.059	N/A	4.61	-1.97	-1
		6165	-9.003	-9.921		4.61	-1.82	
		6405	-8.587	-10.433		4.61	-1.79	
	6	6445	-8.302	-10.300		2.36	-3.82	
		6485	-8.385	-10.048		2.36	-3.77	
	7	6525	-8.356	-9.668		2.44	-3.51	
		6685	-8.825	-9.663		2.44	-3.77	
		6845	-8.698	-10.027		2.51	-3.79	
	8	6885	-8.631	-9.619		2.51	-3.58	
		7005	-8.265	-9.580		2.51	-3.35	
		7085	-8.860	-9.305		2.51	-3.56	

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 = $10 \log[(10^{4.9/10} + 10^{4.3/10})/2]$ = 4.61dBi

6425~6525MHz: Directional gain = $10 \log[(10^{1.6/10} + 10^{3.0/10})/2]$ = 2.36dBi

6525~6825MHz: Directional gain = $10 \log[(10^{1.8/10} + 10^{3.0/10})/2]$ = 2.44dBi

6825~7125MHz: Directional gain = $10 \log[(10^{2.8/10} + 10^{2.2/10})/2]$ = 2.51dBi

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			AUX	Main				
802.11ax-HE80	5	5985	-9.974	-9.624	N/A	4.61	-2.18	-1
		6145	-10.276	-10.213		4.61	-2.62	
		6385	-10.171	-10.116		4.61	-2.52	
	6	6465	-10.002	-10.282		2.36	-4.77	
		6545	-9.997	-9.834		2.44	-4.46	
		6625	-9.885	-9.152		2.44	-4.05	
	7	6705	-10.325	-9.790		2.44	-4.60	
		6785	-10.336	-9.764		2.44	-4.59	
	8	6865	-10.071	-9.758		2.51	-4.39	
		6945	-9.829	-9.855		2.51	-4.32	
		7025	-9.516	-9.387		2.51	-3.93	
802.11ax-HE160	5	6025	-9.901	-9.340	N/A	4.61	-1.99	
		6185	-10.692	-9.648		4.61	-2.52	
		6345	-9.977	-9.430		4.61	-2.07	
	6	6505	-9.683	-9.135		2.36	-4.03	
		6665	-9.788	-9.077		2.44	-3.97	
		6825	-9.914	-9.410		2.51	-4.13	
	8	6985	-10.048	-9.528		2.51	-4.26	

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

5925~6425MHz: Directional gain = $10 \log[(10^{4.3}/10 + 10^{4.3}/10)^2] = 4.61\text{dBi}$

6425~6525MHz: Directional gain = $10 \log[(10^{1.6}/10 + 10^{3.0}/10)^2] = 2.36\text{dBi}$

6525~6825MHz: Directional gain = $10 \log[(10^{1.8}/10 + 10^{3.0}/10)^2] = 2.44\text{dBi}$

6825~7125MHz: Directional gain = $10 \log[(10^{2.8/10} + 10^{2.2/10})^2] = 2.51\text{dBi}$

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			AUX	Main				
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		6695	-8.892	-10.391		2.44	-4.13	
		6855	-9.175	-9.866		2.51	-3.99	
	8	6875	-9.100	-9.887		2.51	-3.96	
		6995	-8.601	-9.518		2.51	-3.52	
		7115	-17.215	-17.479		2.51	-11.82	
802.11be-EHT40	5	5965	-9.102	-10.276	N/A	4.61	-2.03	-1
		6165	-9.351	-10.860		4.61	-2.42	
		6405	-8.460	-10.654		4.61	-1.80	
	6	6445	-8.584	-10.859		2.36	-4.20	
		6485	-8.212	-10.588		2.36	-3.87	
	7	6525	-8.423	-10.122		2.44	-3.74	
		6685	-9.012	-10.074		2.44	-4.06	
		6845	-8.876	-10.065		2.51	-3.91	
	8	6885	-8.766	-9.950		2.51	-3.80	
		7005	-8.357	-9.835		2.51	-3.51	
		7085	-8.795	-9.644		2.51	-3.68	

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

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5925~6425MHz: Directional gain = $10 \log[(10^{4.9/10} + 10^{4.3/10})/2] = 4.61$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{1.6/10} + 10^{3.0/10})/2] = 2.36$ dBi

6525~6825MHz: Directional gain = $10 \log[(10^{1.8/10} + 10^{3.0/10})/2] = 2.44$ dBi

6825~7125MHz: Directional gain = $10 \log[(10^{2.8/10} + 10^{2.2/10})/2] = 2.51$ 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).

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

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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				
802.11be-EHT80	5	5985	-9.96	-9.12	N/A	4.61	-1.90	-1
		6145	-10.29	-9.64		4.61	-2.33	
		6385	-10.09	-9.70		4.61	-2.27	
	6	6465	-9.78	-9.80		2.36	-4.42	
		6545	-9.64	-9.34		2.44	-4.04	
		6625	-9.72	-9.06		2.44	-3.93	
	7	6705	-9.95	-9.44		2.44	-4.23	
		6785	-9.72	-9.37		2.44	-4.09	
	8	6865	-9.90	-9.46		2.51	-4.15	
		6945	-9.57	-9.55		2.51	-4.04	
		7025	-9.69	-9.43		2.51	-4.04	
802.11be-EHT160	5	6025	-10.00	-9.46	N/A	4.61	-2.10	-1
		6185	-10.06	-9.30		4.61	-2.04	
		6345	-9.91	-9.56		4.61	-2.11	
	6	6505	-9.50	-9.27		2.36	-4.01	
		6665	-9.84	-9.46		2.44	-4.19	
	7	6825	-9.87	-9.22		2.51	-4.01	
		6985	-9.90	-9.40		2.51	-4.12	
	8	6985	-9.90	-9.40		2.51	-4.12	
802.11be-EHT320	5	6105	-9.74	-9.21	N/A	4.61	-1.85	-1
		6265	-9.76	-9.21		4.61	-1.85	
		6425	-9.45	-9.22		4.61	-1.71	
	6	6585	-9.13	-8.82		2.44	-3.52	
	7	6745	-9.57	-8.89		2.44	-3.77	
	8	6905	-10.61	-10.12		2.51	-4.84	

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 = $10 \log[(10^{4.9/10} + 10^{4.3/10})/2] = 4.61$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{1.6/10} + 10^{3.0/10})/2] = 2.36$ dBi

6525~6825MHz: Directional gain = $10 \log[(10^{1.8/10} + 10^{3.0/10})/2] = 2.44$ dBi

6825~7125MHz: Directional gain = $10 \log[(10^{2.8/10} + 10^{2.2/10})/2] = 2.51$ 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).

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

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● OFDMA Modulation

Antenna: INPAQ

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	-9.46	-10.53	N/A	1.76	-5.19	-1
52T	52	802.11ax-HE80	7	6625	-11.80	-12.44	N/A	1.76	-7.34	
106T	60	802.11ax-HE160	7	6665	-11.04	-11.24	N/A	1.76	-6.37	
242T	62	802.11ax-HE160	7	6665	-10.86	-10.97	N/A	1.76	-6.14	
484T	65	802.11ax-HE80	7	6625	-11.07	-11.78	N/A	1.76	-6.64	
996T	67	802.11ax-HE160	7	6665	-10.63	-11.75	N/A	1.76	-6.38	

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

6525~6875MHz: Directional gain = $10 \log[(10^{1.5/10} + 10^{2.0/10})/2] = 1.76$ 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).

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				
26	19	802.11be-EHT80	7	6625	-10.67	-11.26	N/A	1.76	-6.18	-1
52	52	802.11be-EHT160	7	6665	-11.60	-11.02	N/A	1.76	-6.53	
106	56	802.11be-EHT80	7	6625	-10.90	-10.76	N/A	1.76	-6.06	
242	62	802.11be-EHT80	7	6625	-10.12	-11.84	N/A	1.76	-6.13	
484	66	802.11be-EHT160	7	6665	-10.16	-11.71	N/A	1.76	-6.10	
996	67	802.11be-EHT160	7	6665	-10.82	-11.70	N/A	1.76	-6.47	
996x2	W68	802.11be-EHT320	5	6105	-11.34	-11.43	N/A	1.80	-6.57	
26+52	72	802.11be-EHT20	7	6535	-10.79	-12.15	N/A	1.76	-6.65	
26+52	70	802.11be-EHT40	7	6685	-10.21	-10.99	N/A	1.76	-5.81	
26+106	82	802.11be-EHT20	7	6695	-12.75	-12.20	N/A	1.76	-7.70	
26+106	82	802.11be-EHT40	7	6685	-10.71	-11.07	N/A	1.76	-6.12	
484+242	92	802.11be-EHT80	5	5985	-10.75	-10.07	N/A	1.80	-5.59	
996+484	S94	802.11be-EHT160	5	6025	-11.91	-10.87	N/A	1.80	-6.55	
996+484+242	98	802.11be-EHT160	7	6665	-11.13	-11.50	N/A	1.76	-6.54	
996x2+484	103	802.11be-EHT320	7	6745	-10.75	-11.60	N/A	1.76	-6.38	
996x3	W104	802.11be-EHT320	5	6265	-10.72	-11.12	N/A	1.80	-6.11	
996x3+484	W106	802.11be-EHT320	5	6105	-11.86	-11.22	N/A	1.80	-6.72	

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 = $10 \log[(10^{1.7/10} + 10^{1.9/10})/2] = 1.80$ dBi

6425~6525MHz: Directional gain = $10 \log[(10^{0.9/10} + 10^{1.4/10})/2] = 1.16$ 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).

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

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Antenna: LUXSHARE-ICT

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	5	5985	-12.84	-12.78	N/A	4.61	-5.19	-1
52T	44	802.11ax-HE40	5	5965	-14.85	-13.78	N/A	4.61	-6.66	
106T	60	802.11ax-HE80	5	5985	-13.07	-12.03	N/A	4.61	-4.90	
242T	62	802.11ax-HE80	5	5985	-12.66	-11.90	N/A	4.61	-4.64	
484T	65	802.11ax-HE40	5	5965	-13.71	-12.00	N/A	4.61	-5.15	
996T	67	802.11ax-HE80	5	5985	-13.32	-11.99	N/A	4.61	-4.98	

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 = $10 \log[(10^{4.9/10} + 10^{4.3/10})/2] = 4.61$ 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).

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

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				
26	W36	802.11be-EHT320	5	6425	-14.39	-13.29	N/A	4.61	-6.18	-1
52	S37	802.11be-EHT160	5	6025	-13.60	-13.72	N/A	4.61	-6.04	
106	W60	802.11be-EHT320	5	6425	-12.05	-12.97	N/A	4.61	-4.87	
242	W62	802.11be-EHT320	5	6425	-12.16	-11.93	N/A	4.61	-4.42	
484	65	802.11be-EHT40	5	5965	-12.41	-13.42	N/A	4.61	-5.27	
996	67	802.11be-EHT160	5	6025	-12.24	-13.25	N/A	4.61	-5.10	
996x2	W68	802.11be-EHT320	5	6105	-12.69	-12.25	N/A	4.61	-4.84	
26+52	72	802.11be-EHT20	5	5955	-14.28	-12.10	N/A	4.61	-5.43	
26+52	75	802.11be-EHT40	5	5965	-12.87	-11.73	N/A	4.61	-4.64	
26+106	83	802.11be-EHT20	5	5955	-13.03	-12.16	N/A	4.61	-4.95	
26+106	82	802.11be-EHT40	5	5965	-13.14	-12.31	N/A	4.61	-5.08	
484+242	92	802.11be-EHT80	5	5985	-12.42	-11.59	N/A	4.61	-4.36	
996+484	S94	802.11be-EHT160	5	6025	-12.85	-12.48	N/A	4.61	-5.04	
996+484+242	99	802.11be-EHT160	5	6025	-13.16	-11.99	N/A	4.61	-4.92	
996x2+484	T102	802.11be-EHT320	5	6425	-12.18	-12.26	N/A	4.61	-4.60	
996x3	W104	802.11be-EHT320	5	6265	-12.05	-11.53	N/A	4.61	-4.16	
996x3+484	W106	802.11be-EHT320	5	6105	-12.98	-12.62	N/A	4.61	-5.18	

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 = $10 \log[(10^{4.9/10} + 10^{4.3/10})/2] = 4.61$ 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).

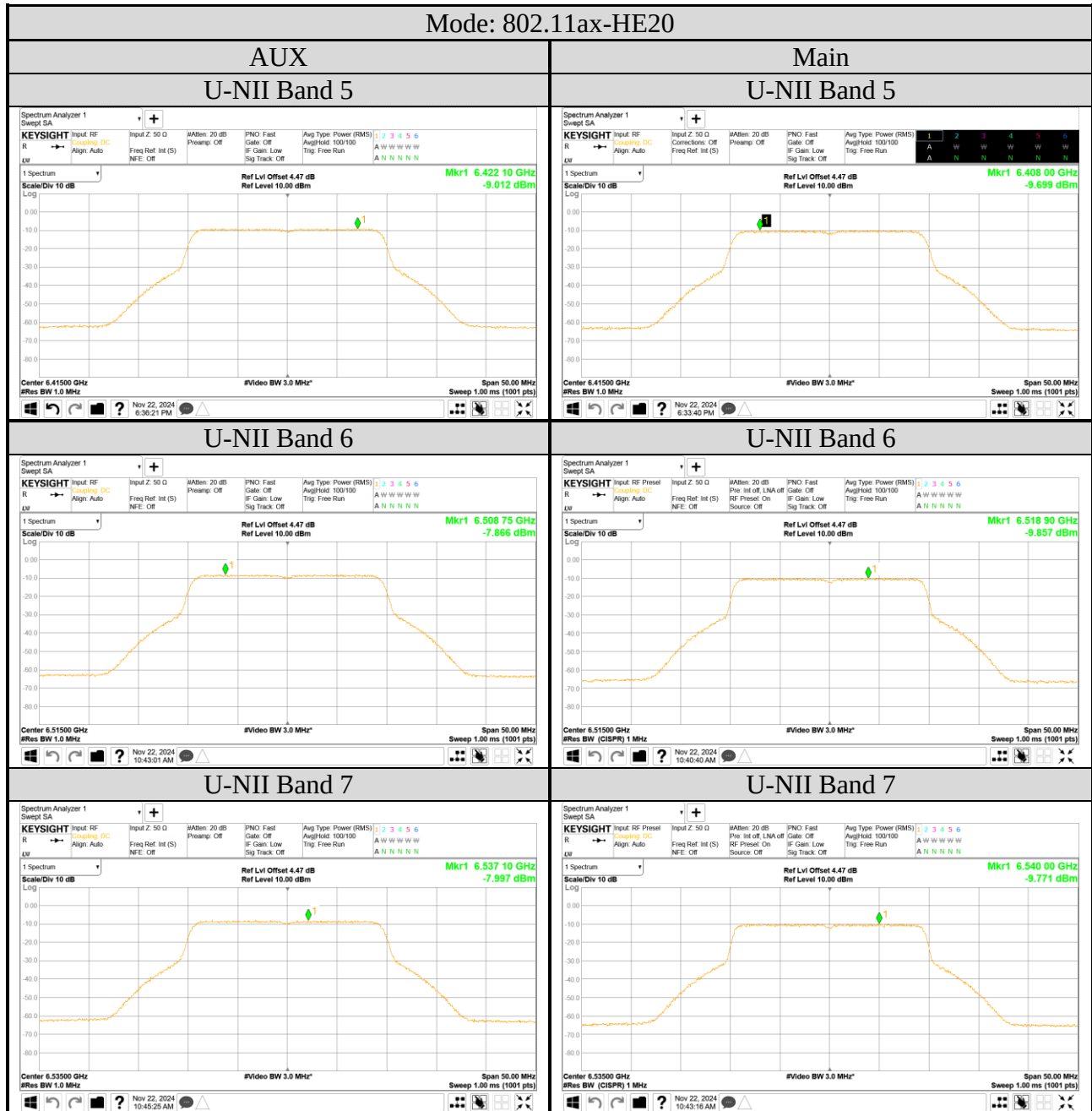
4. We only presented max result (worst case) plots for each test mode.

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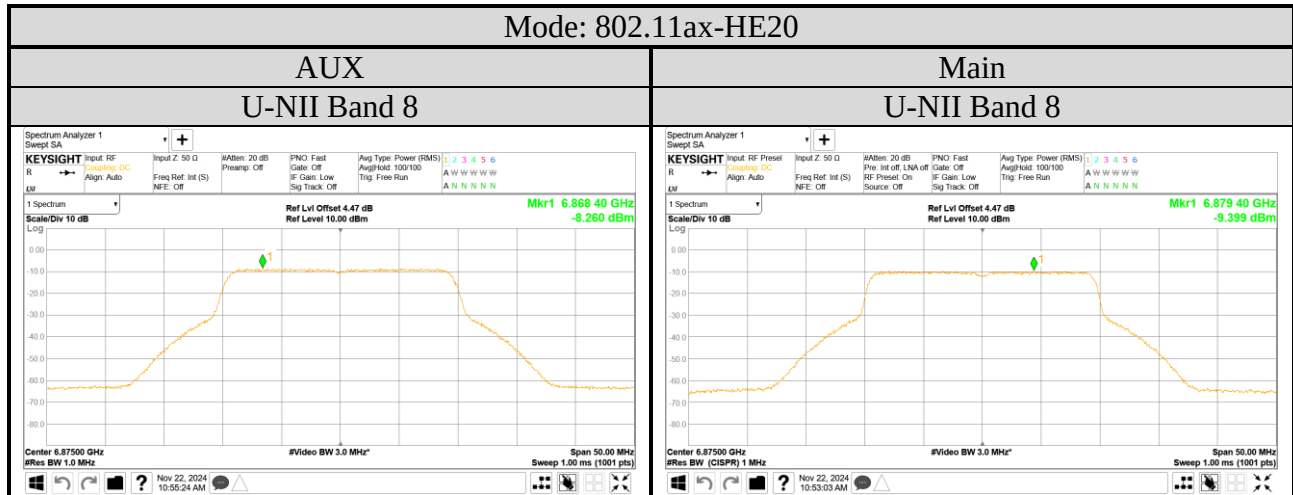
A.3.2 Measurement Plots

● OFDM Modulation



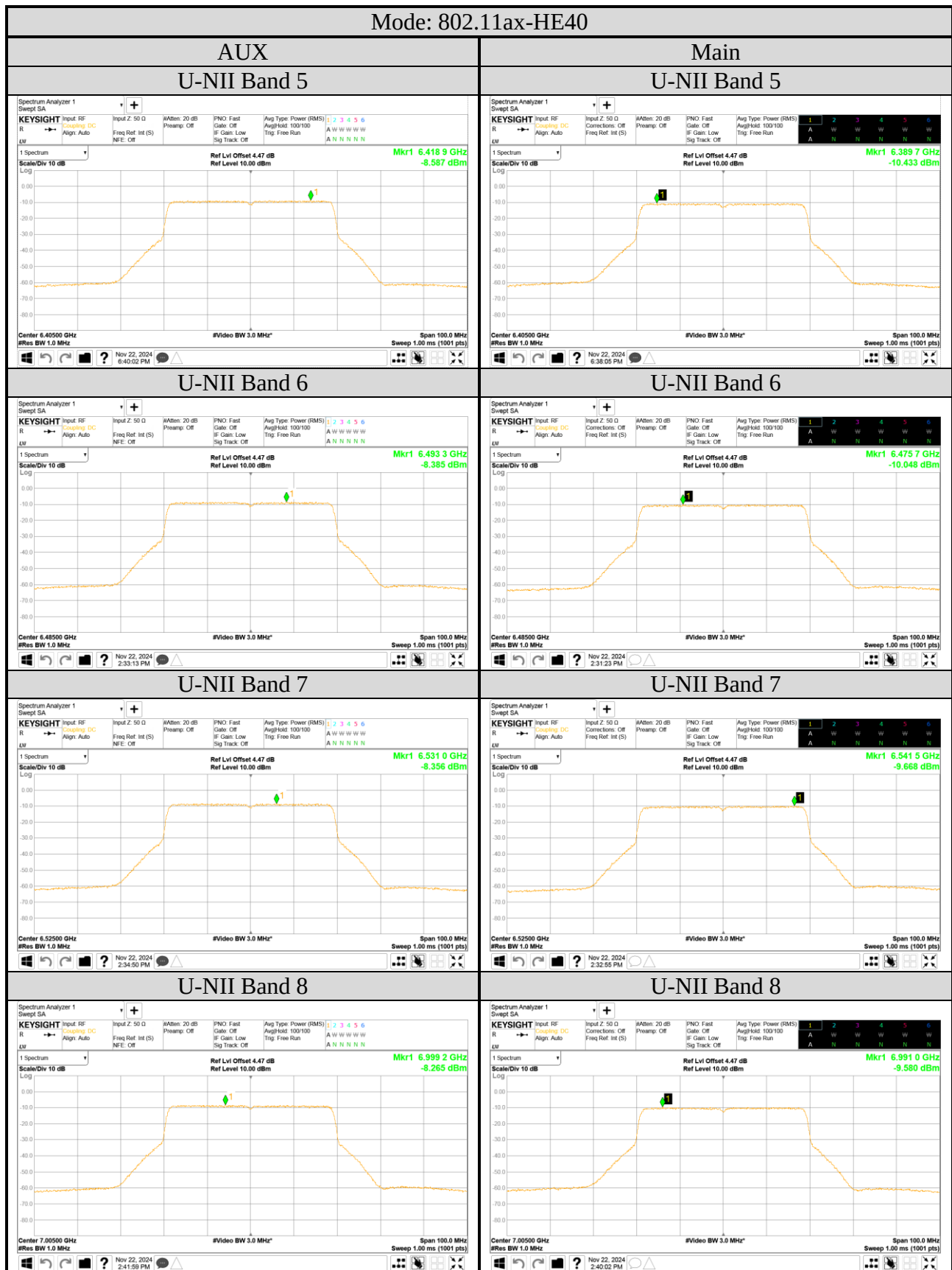
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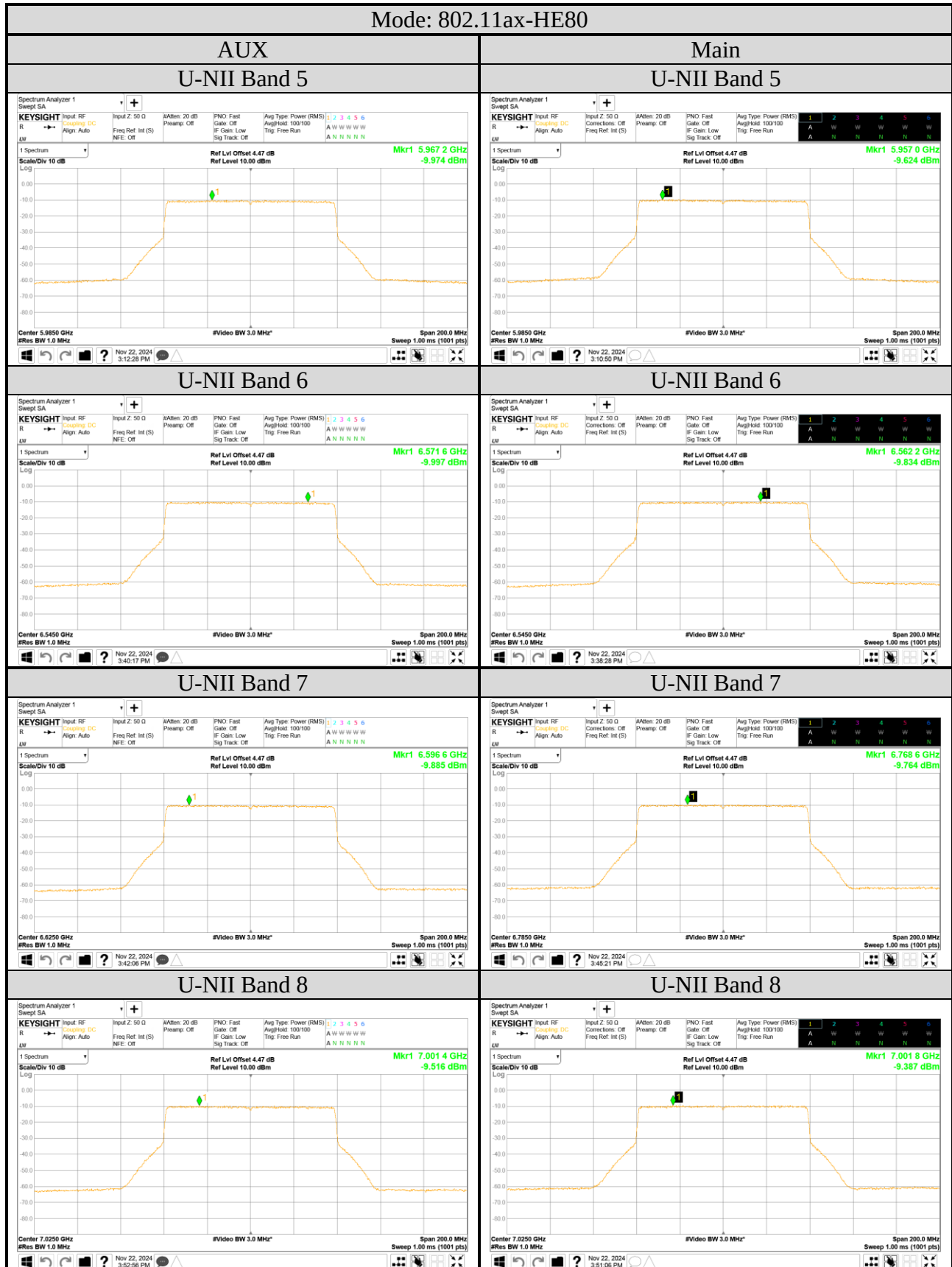
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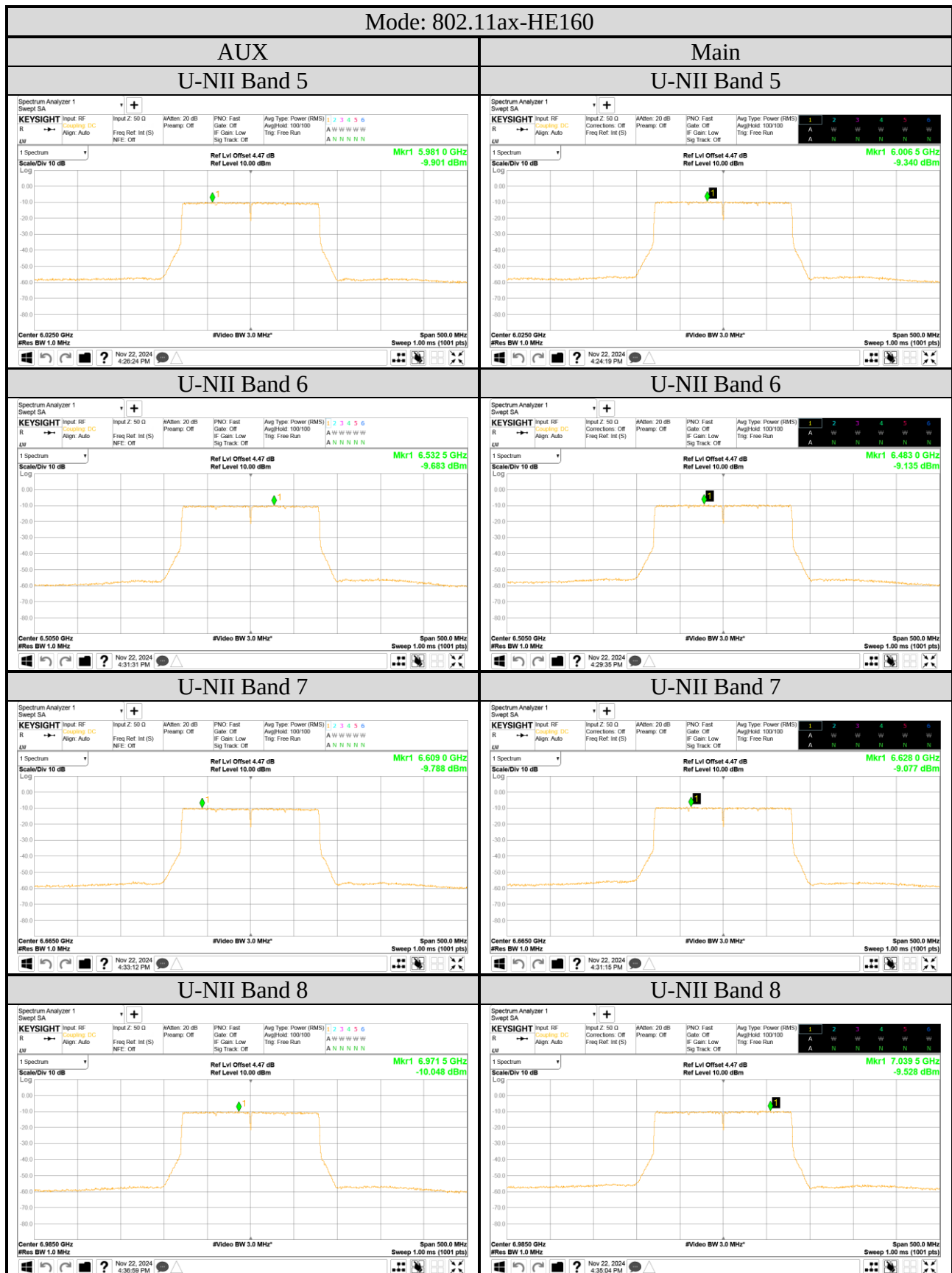
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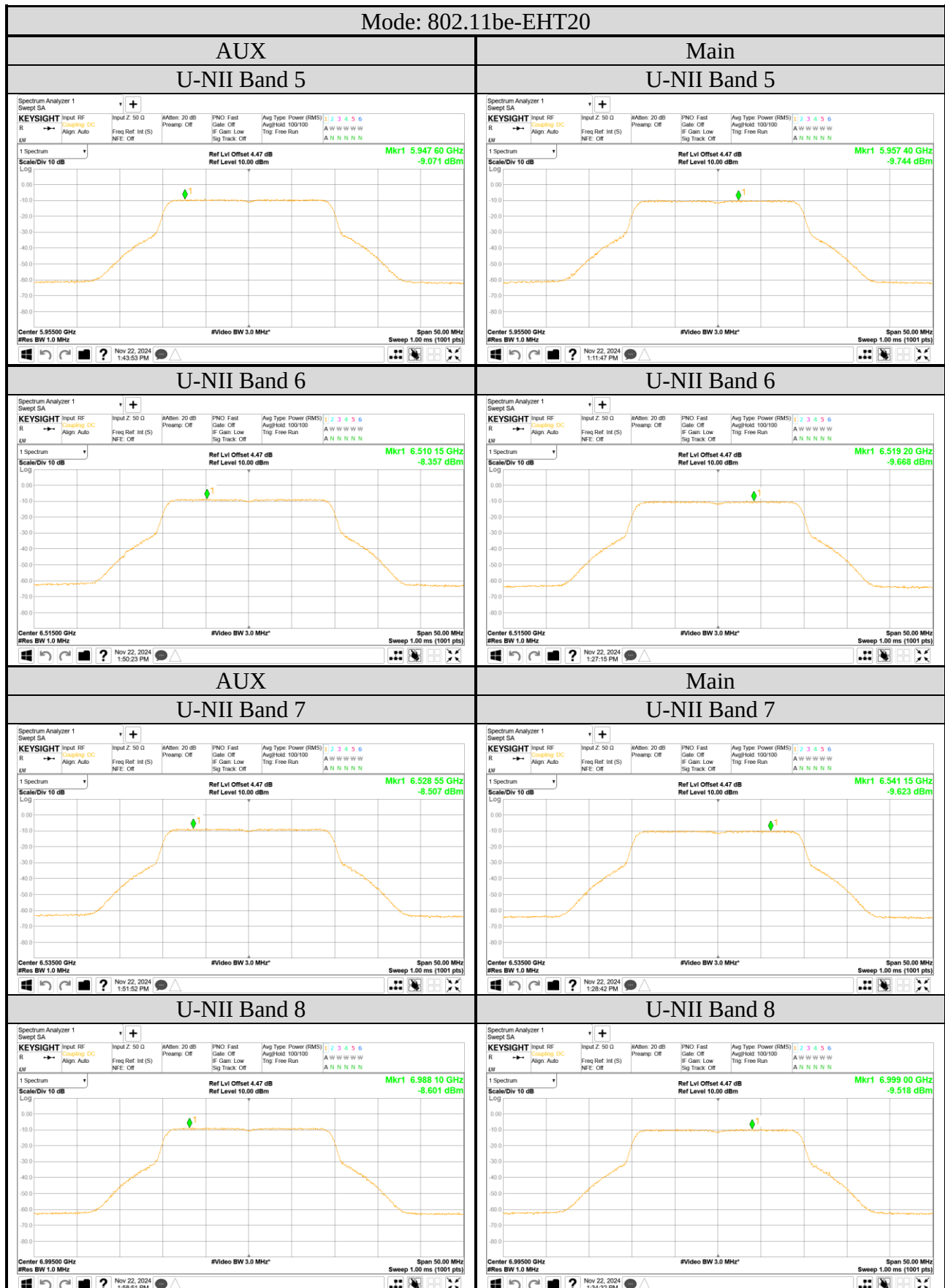
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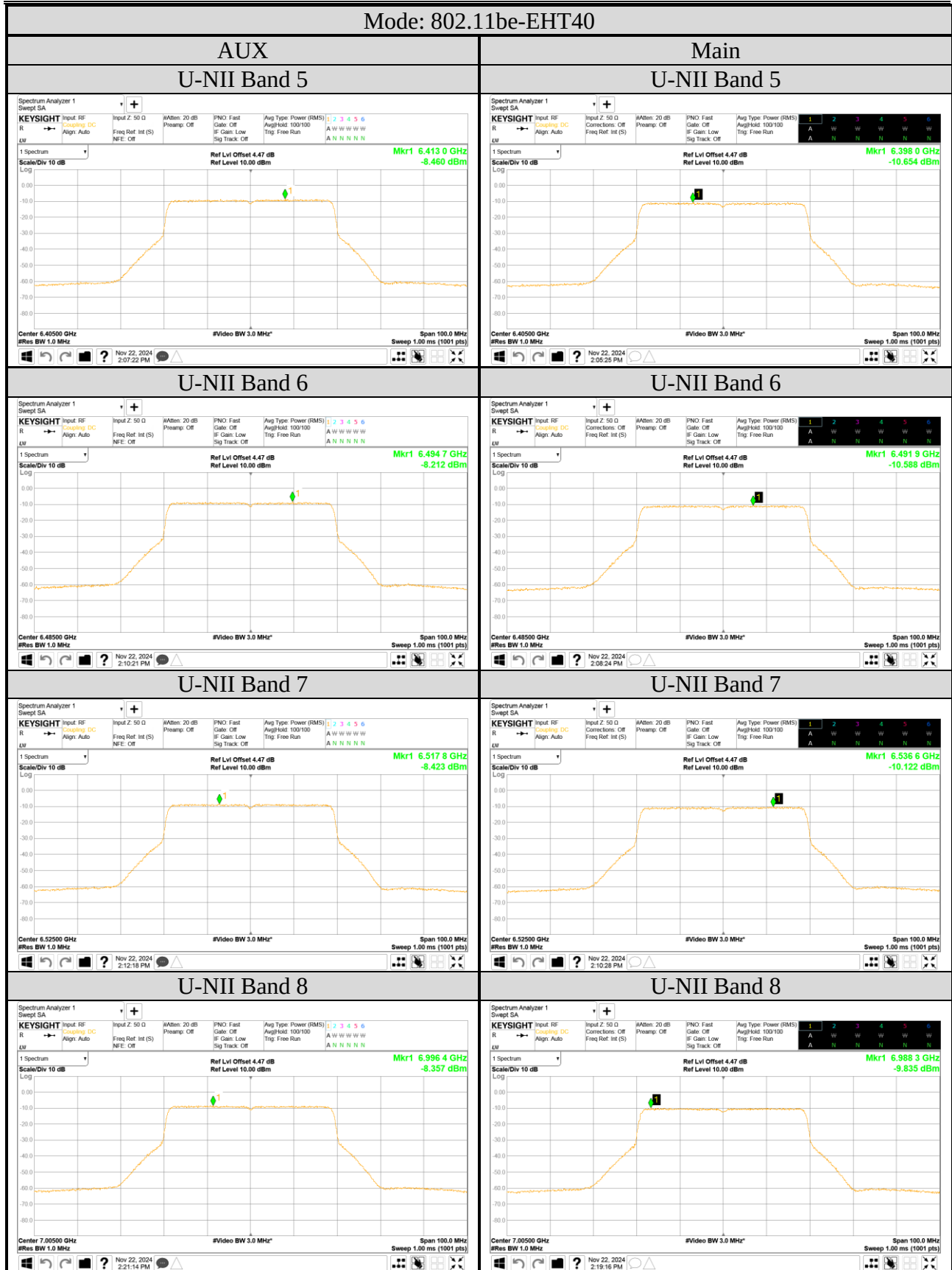
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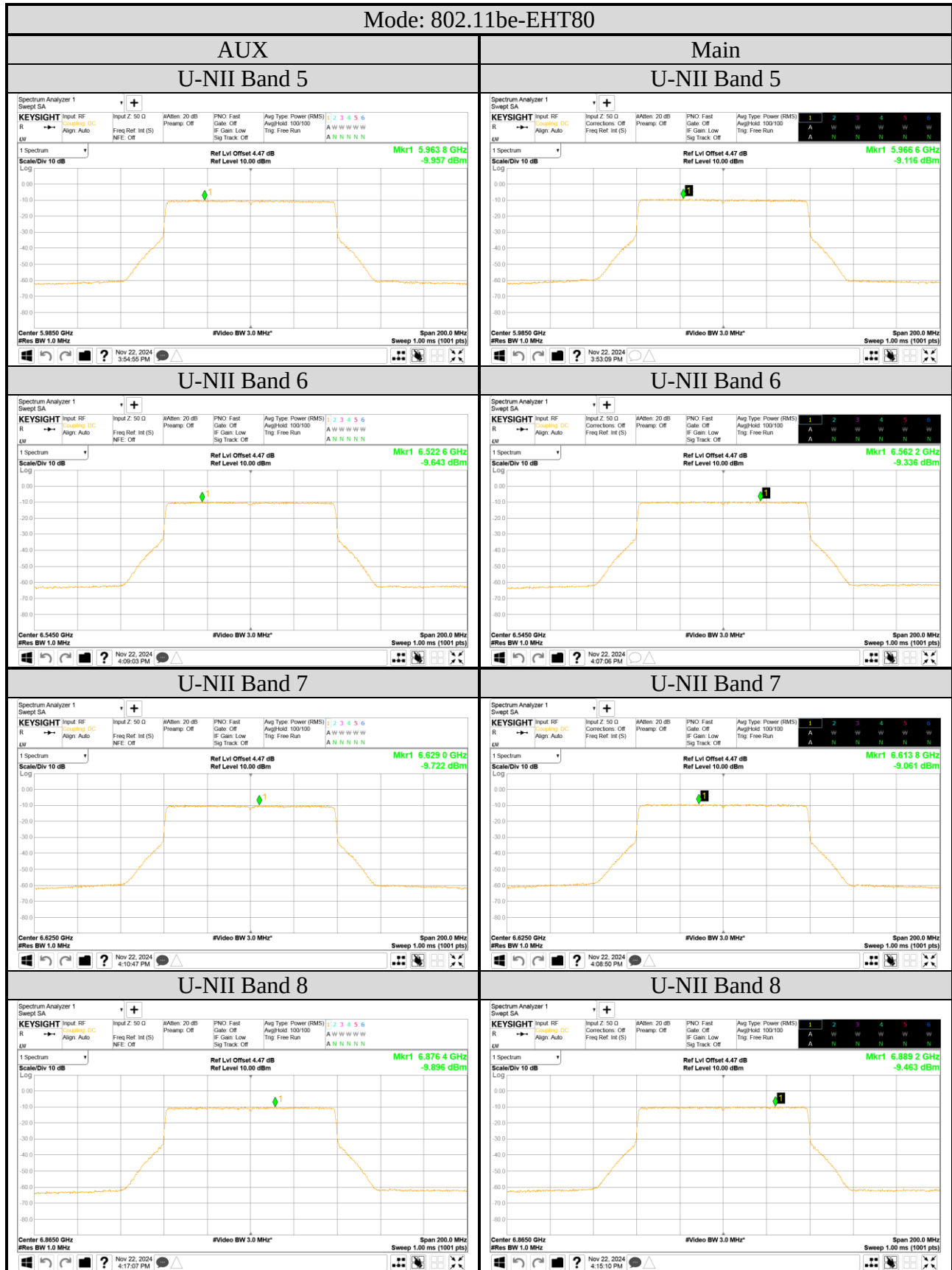
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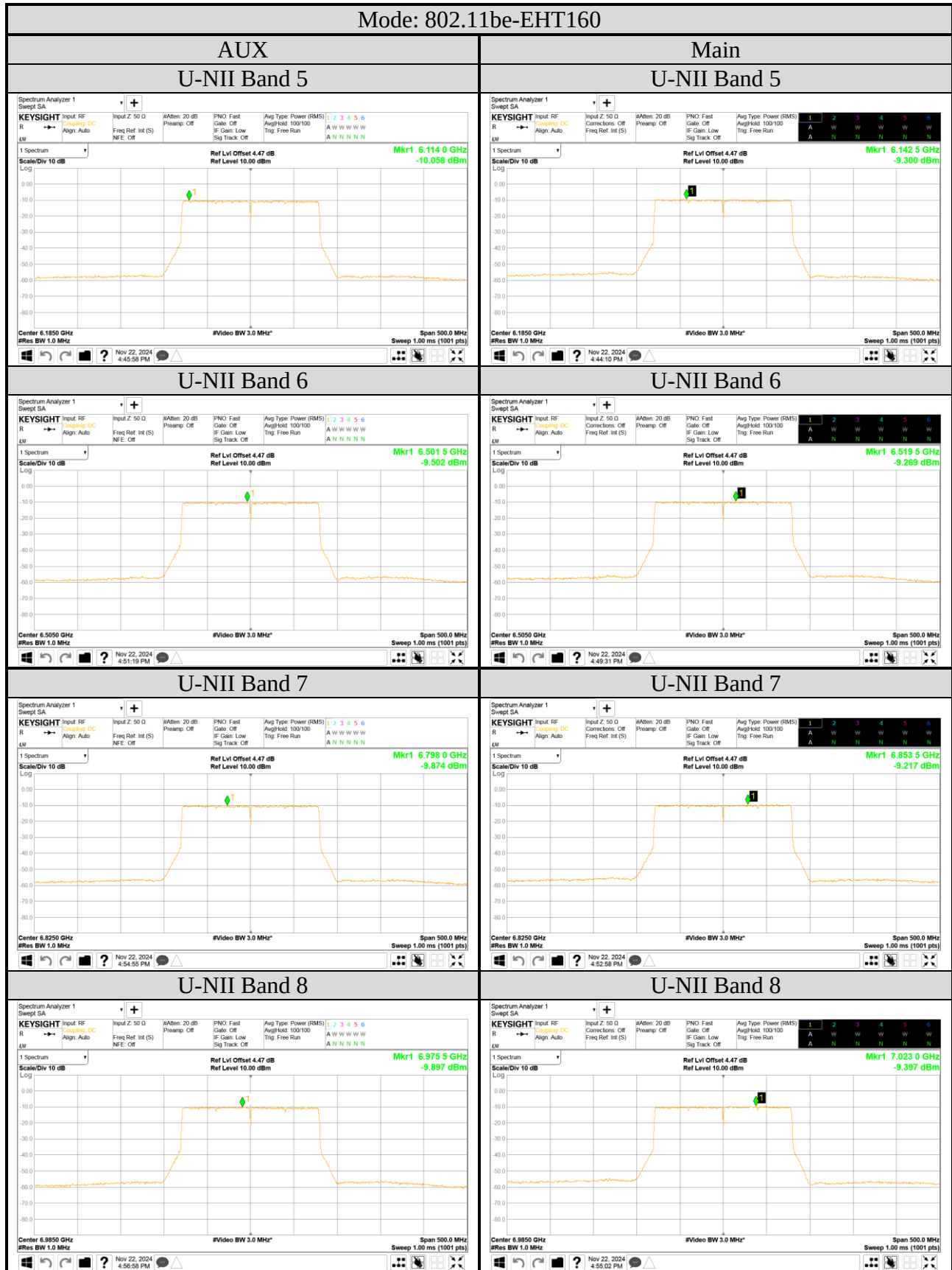
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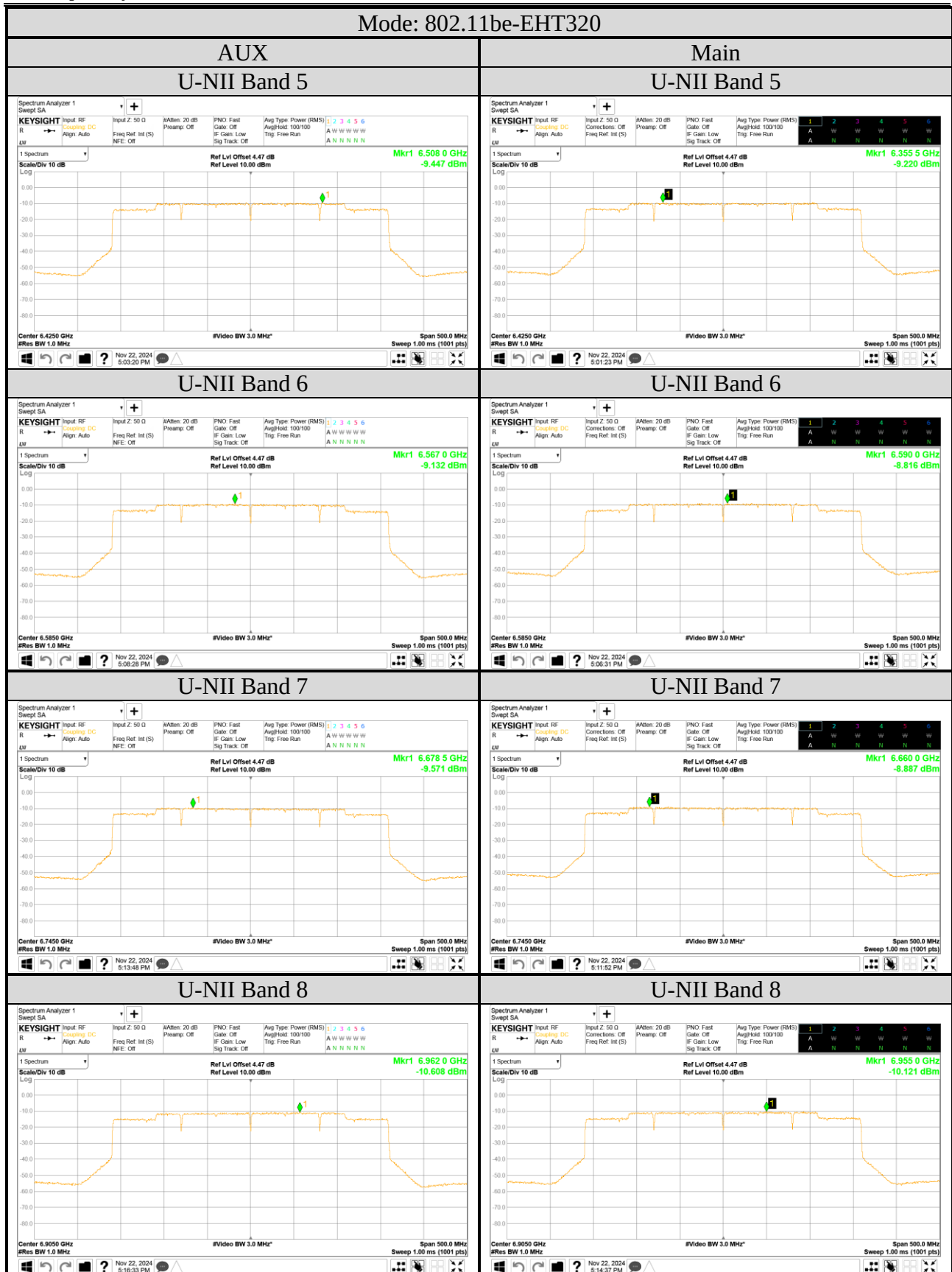
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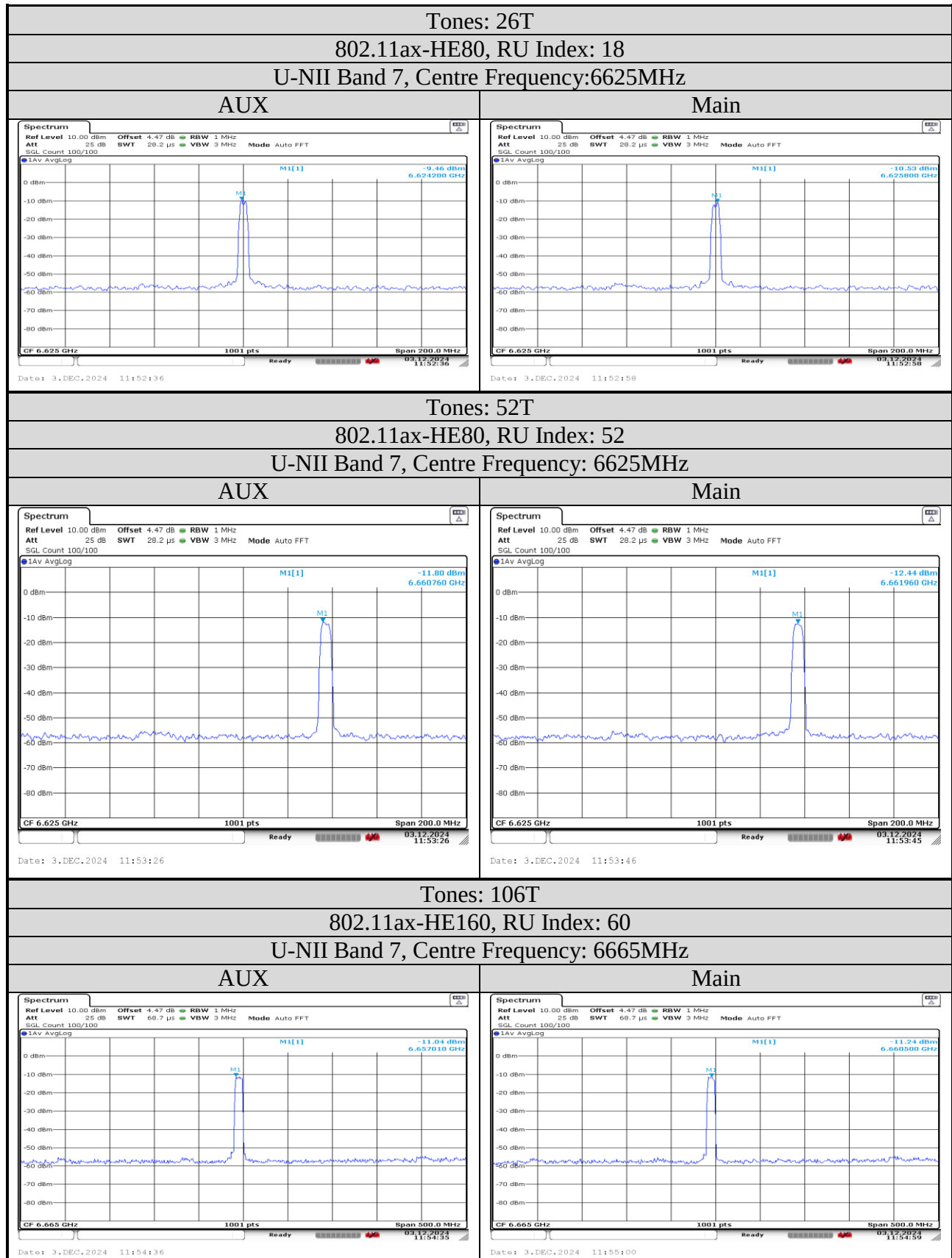


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● OFDMA Modulation

Antenna: INPAQ



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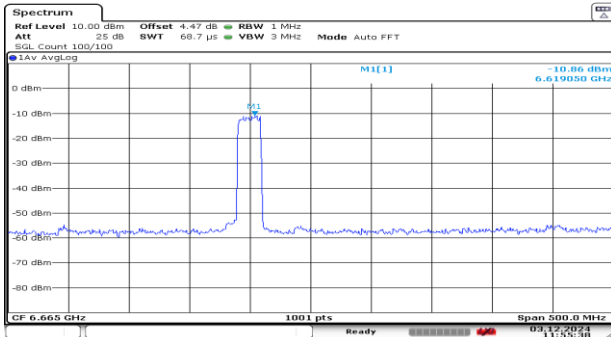
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802.11ax-HE160, RU Index: 62

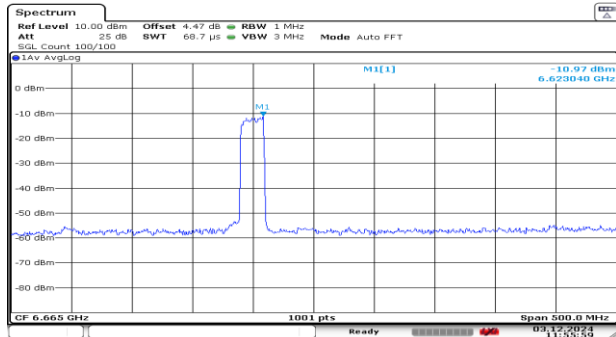
U-NII Band 7, Centre Frequency: 6665MHz

AUX

Main



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Date: 3.DEC.2024 11:56:00

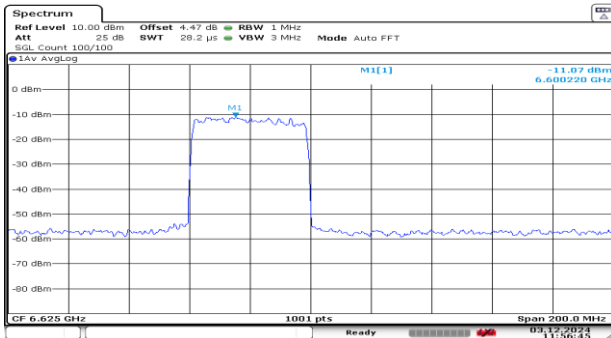
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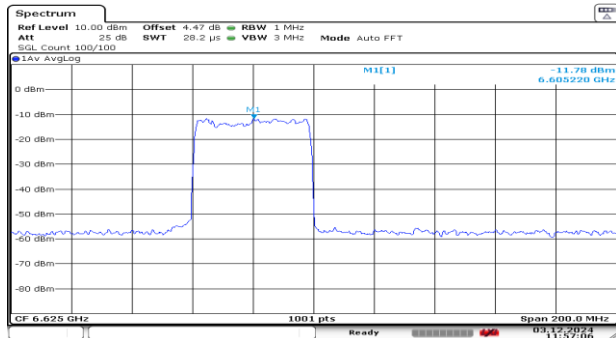
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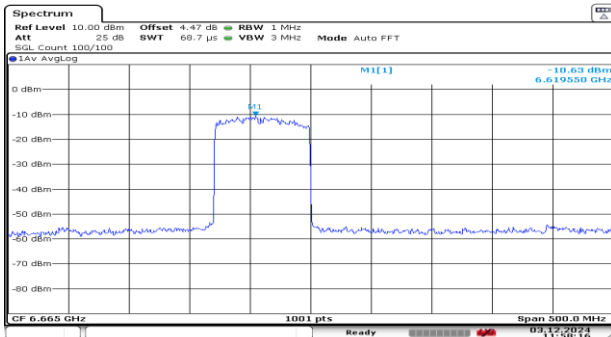
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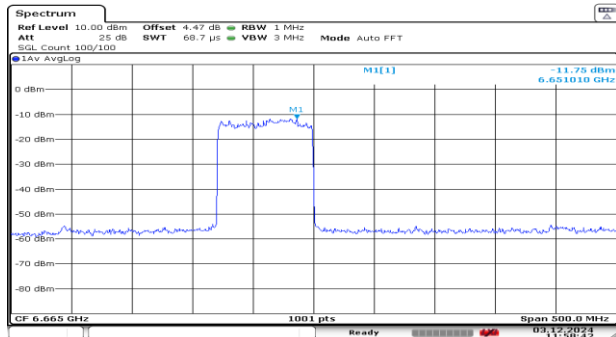
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AUX

Main



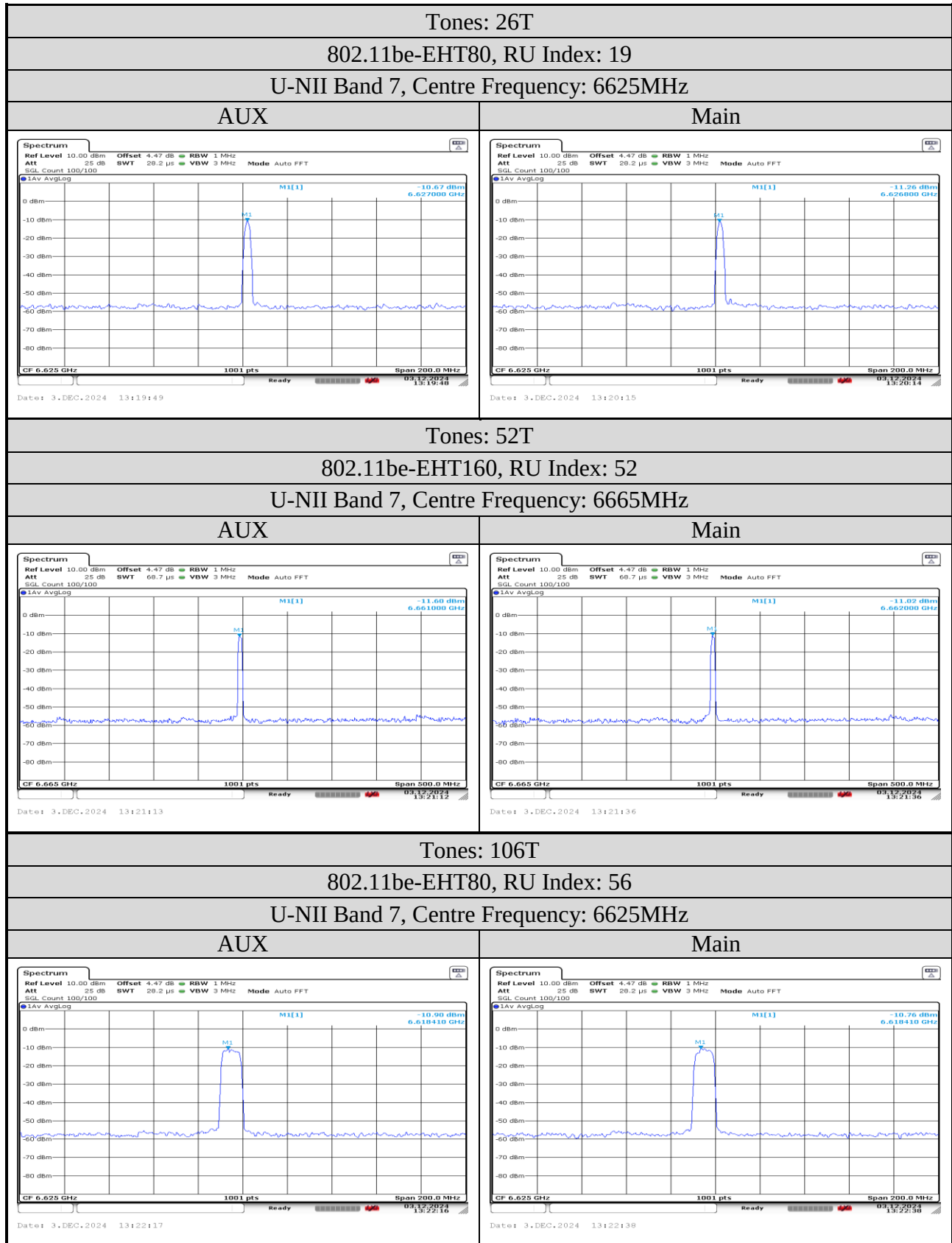
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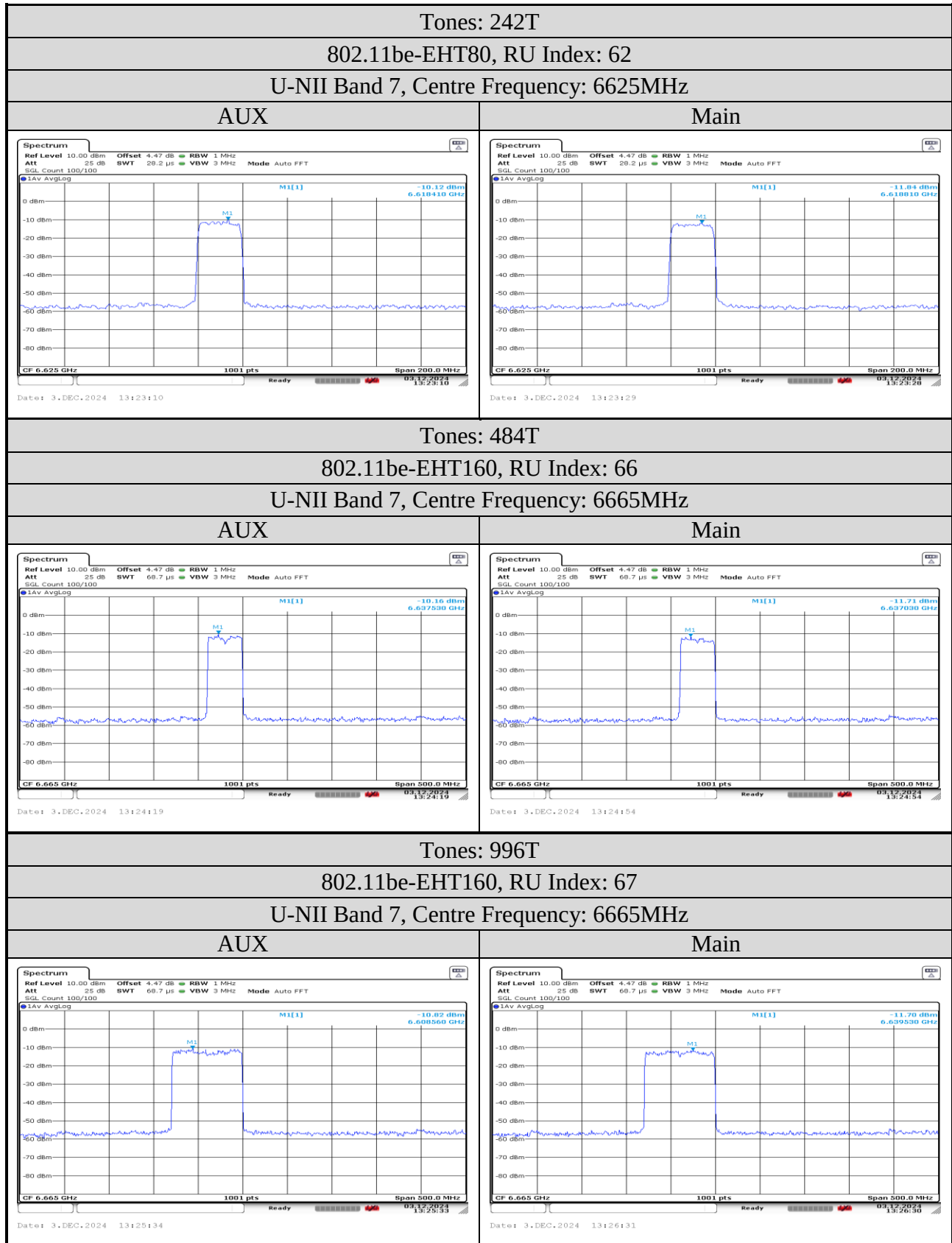
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