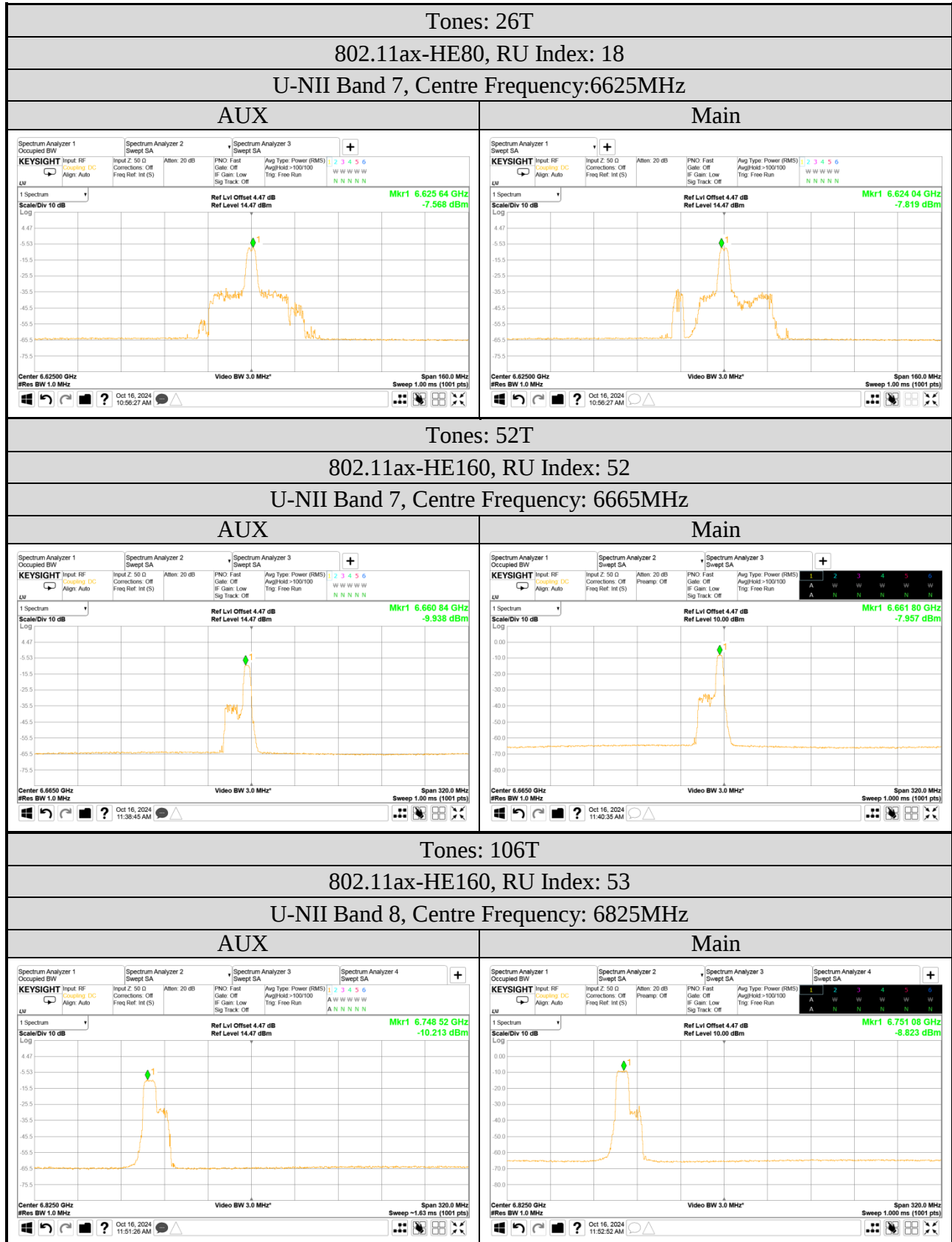


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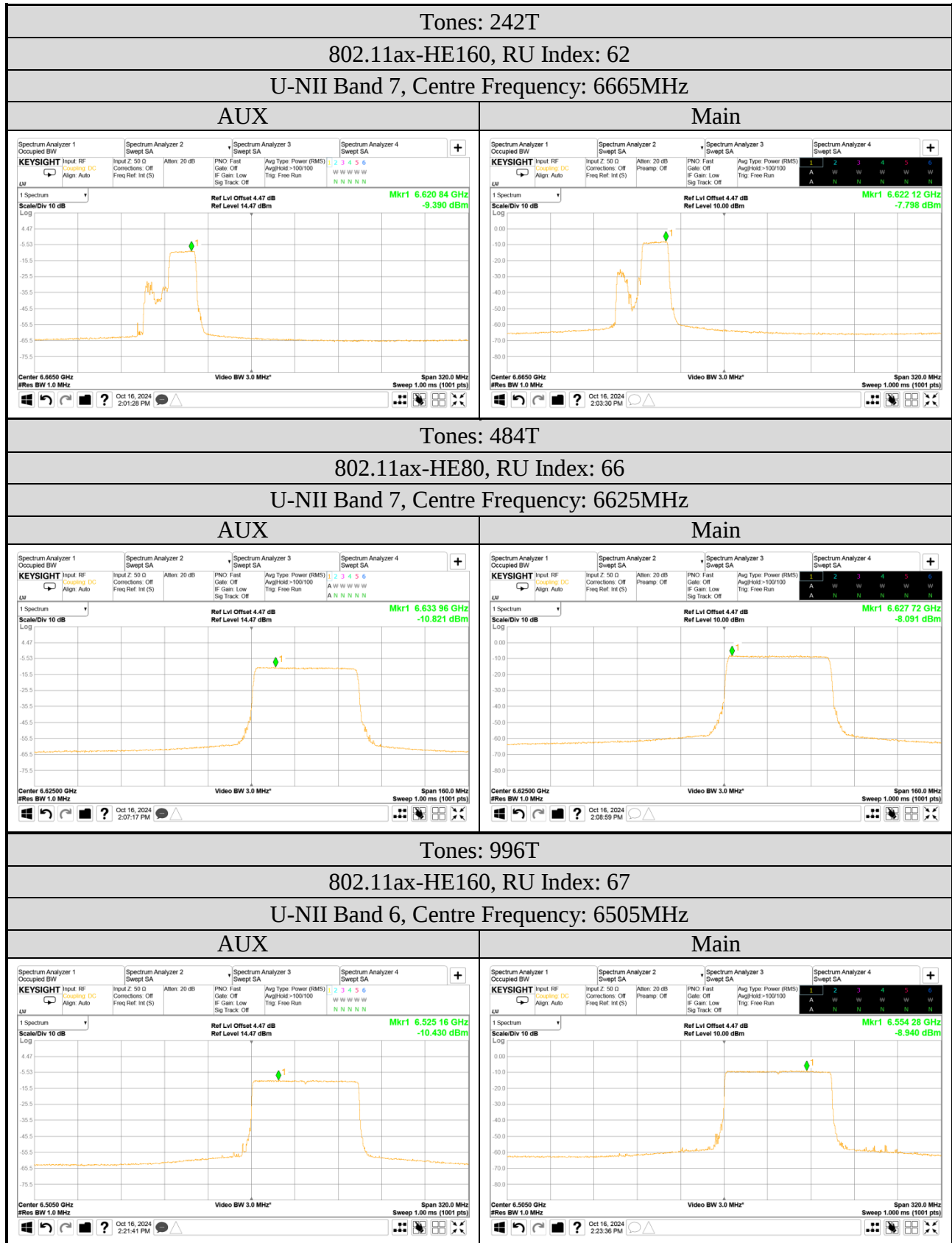
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● OFDMA Modulation



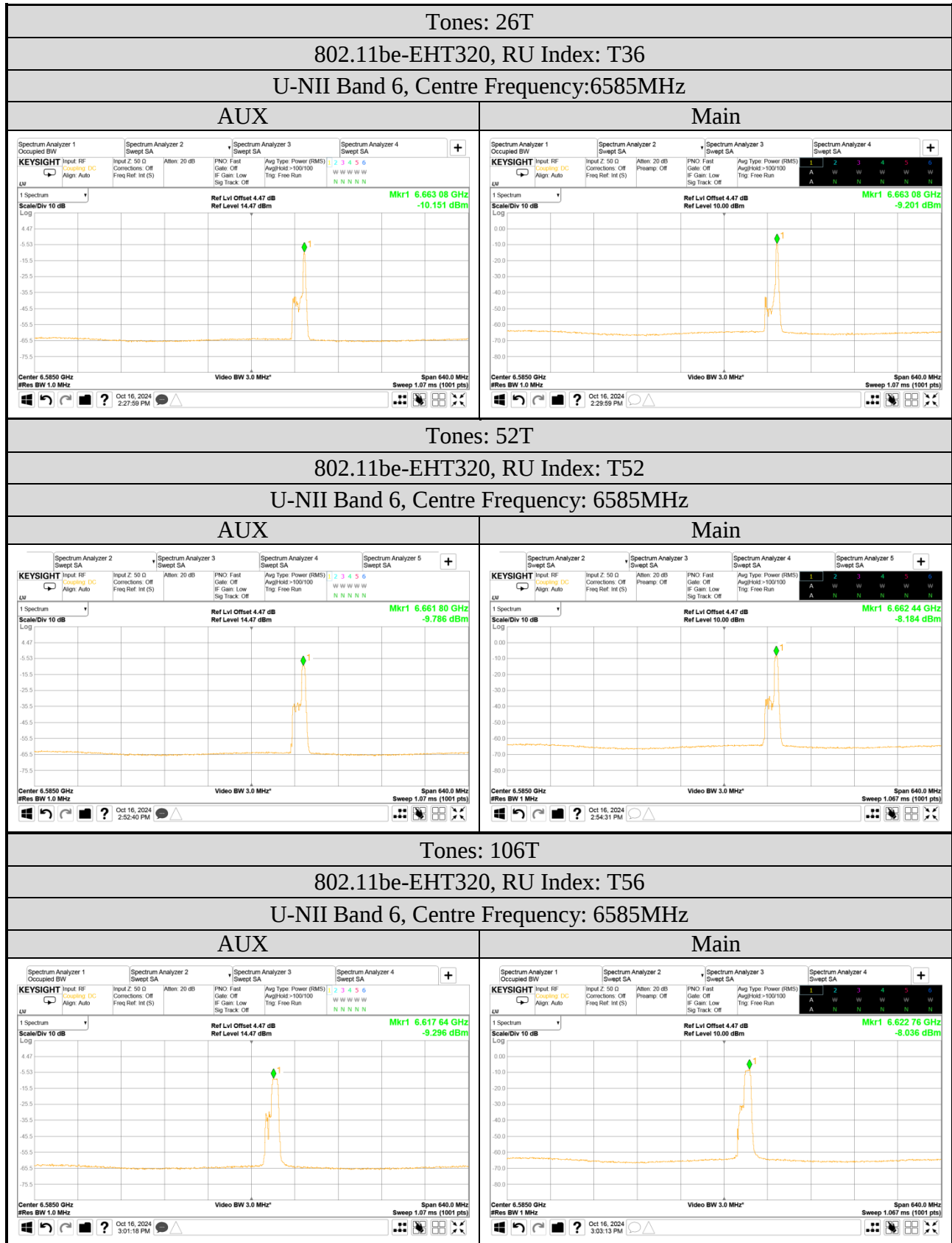
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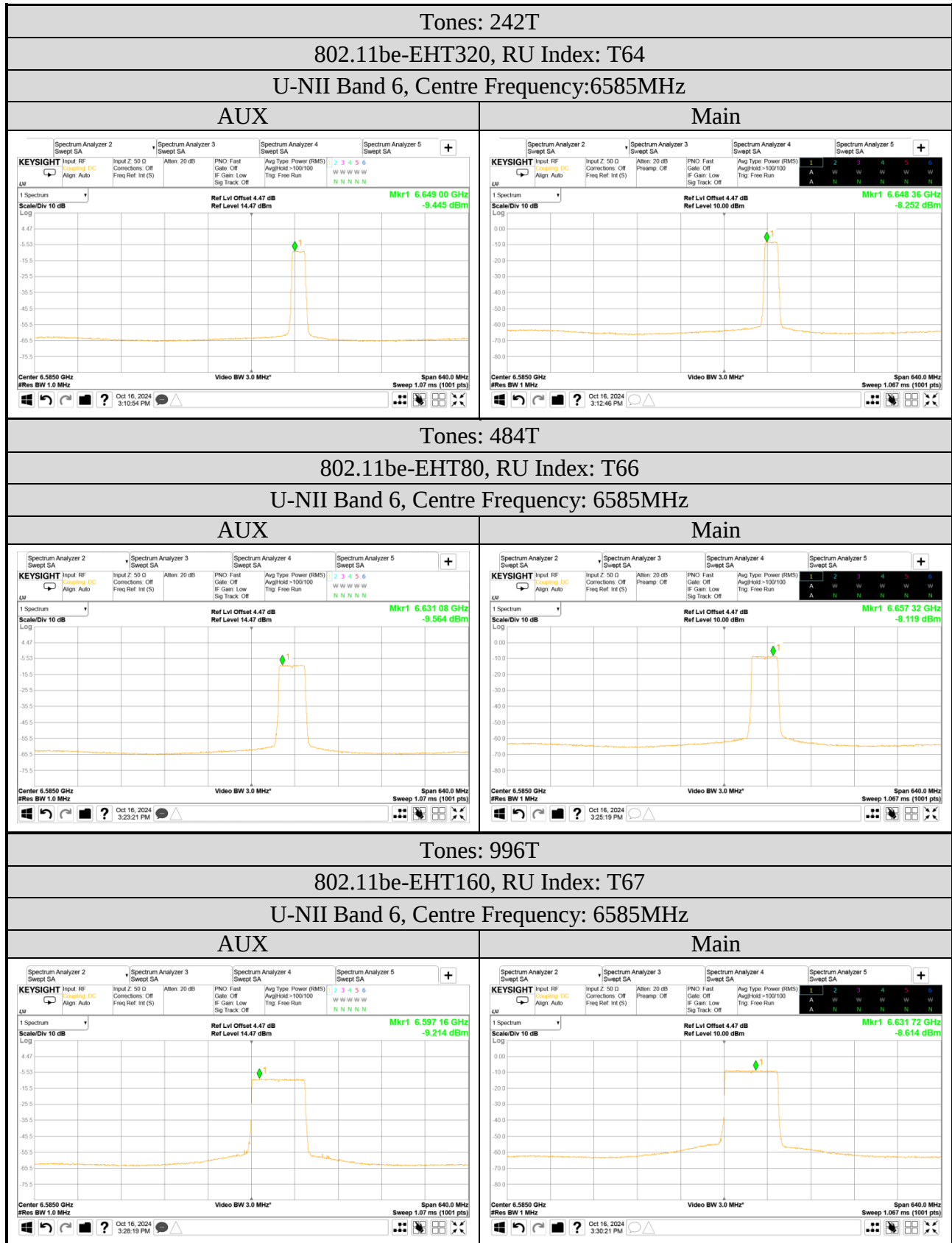
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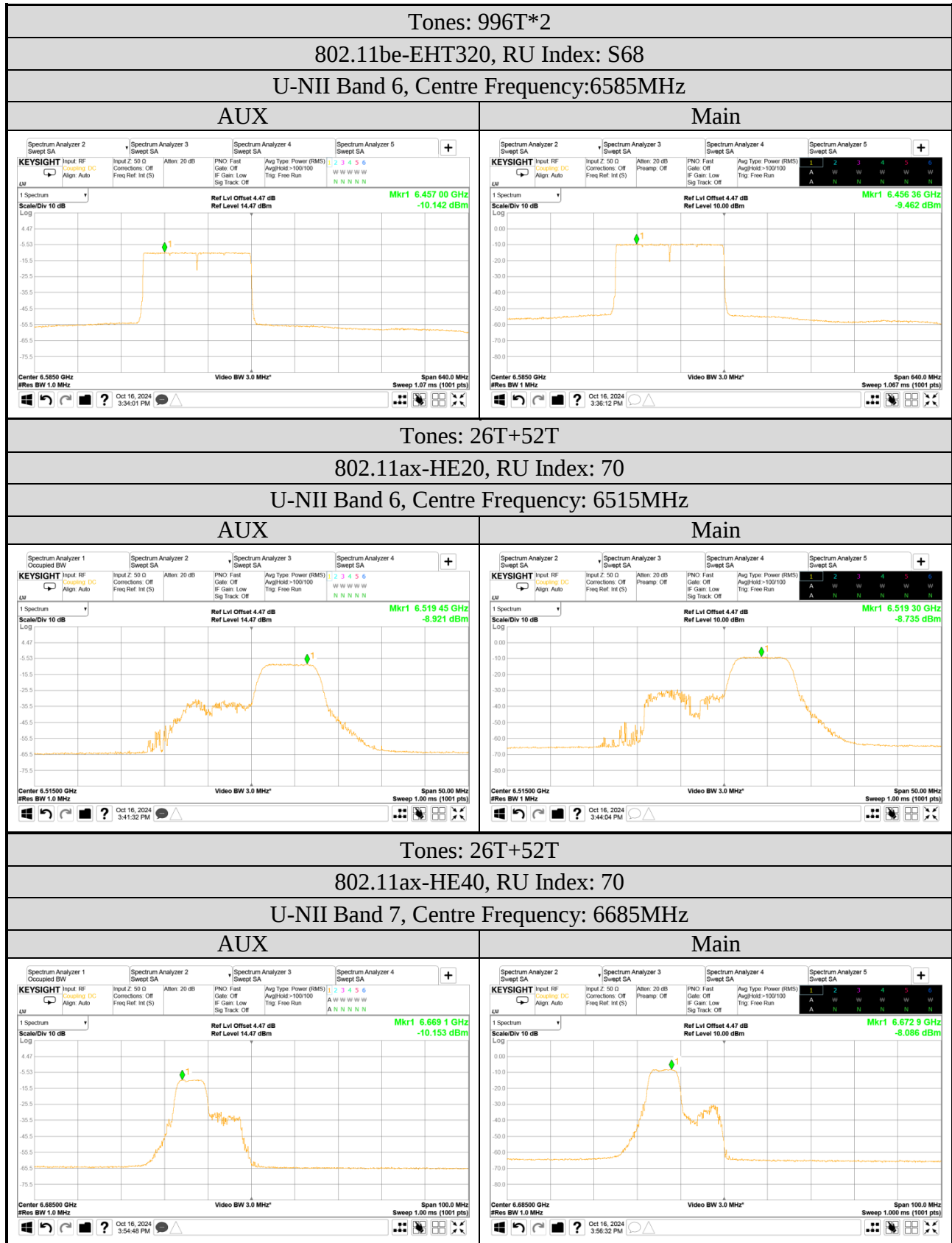
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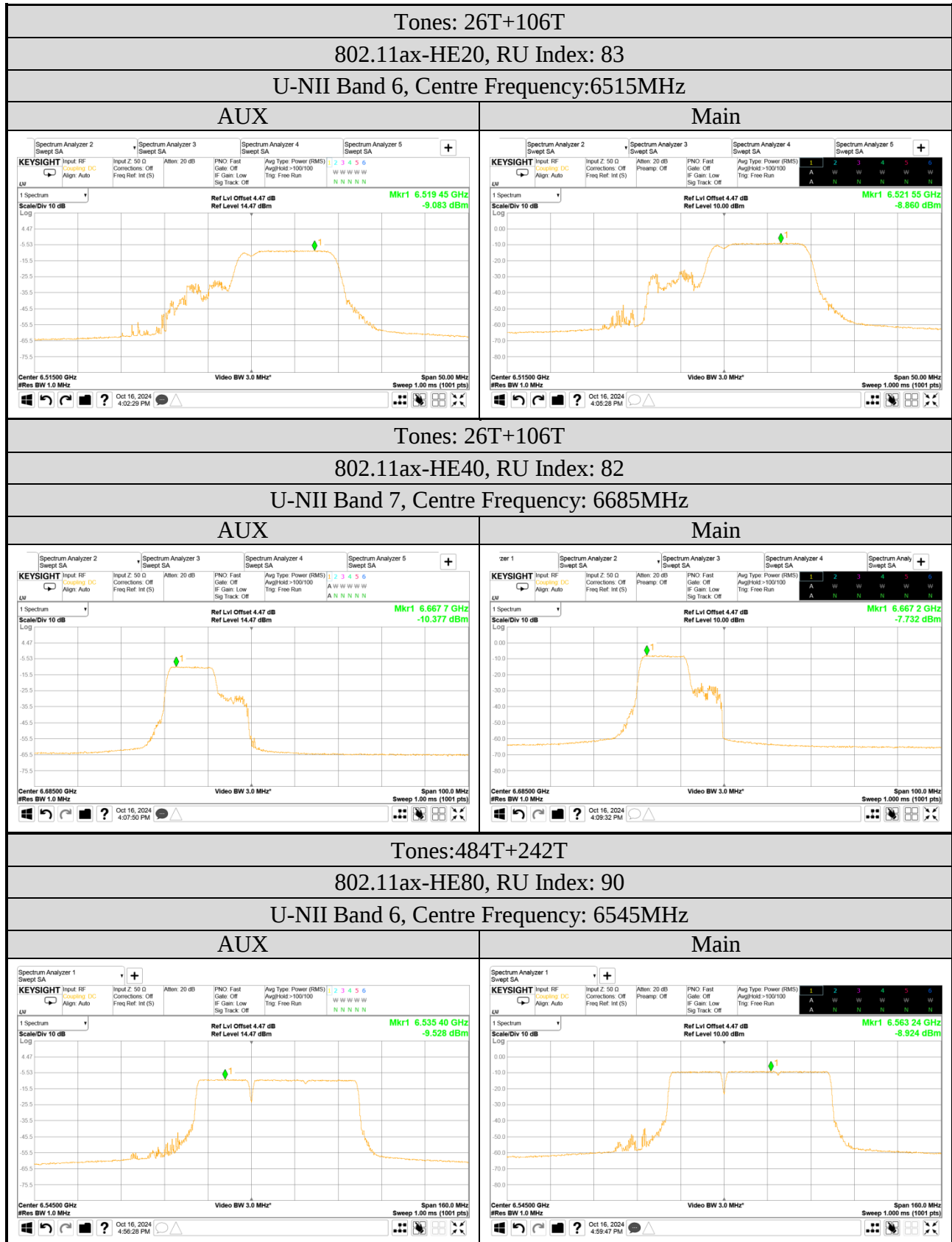
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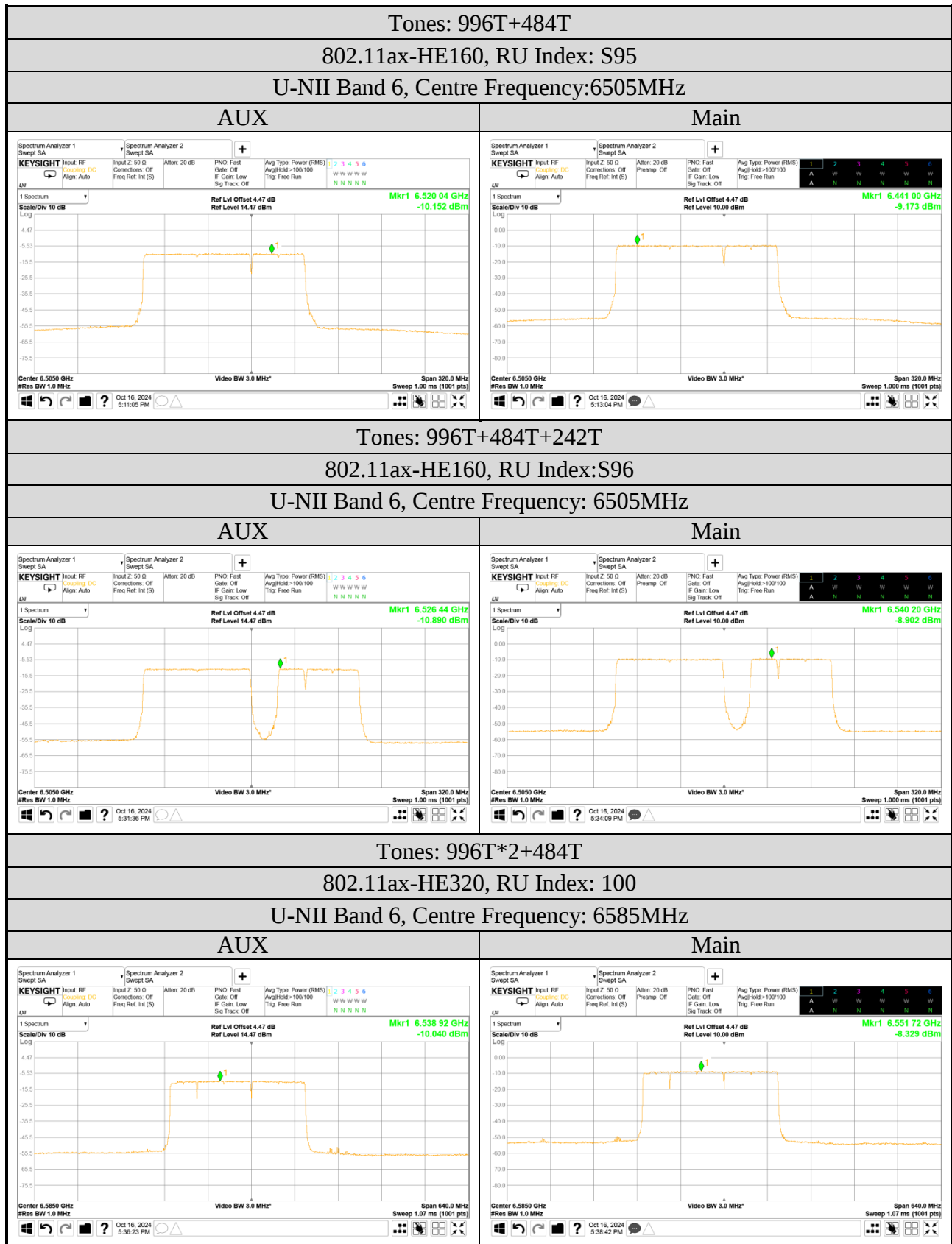
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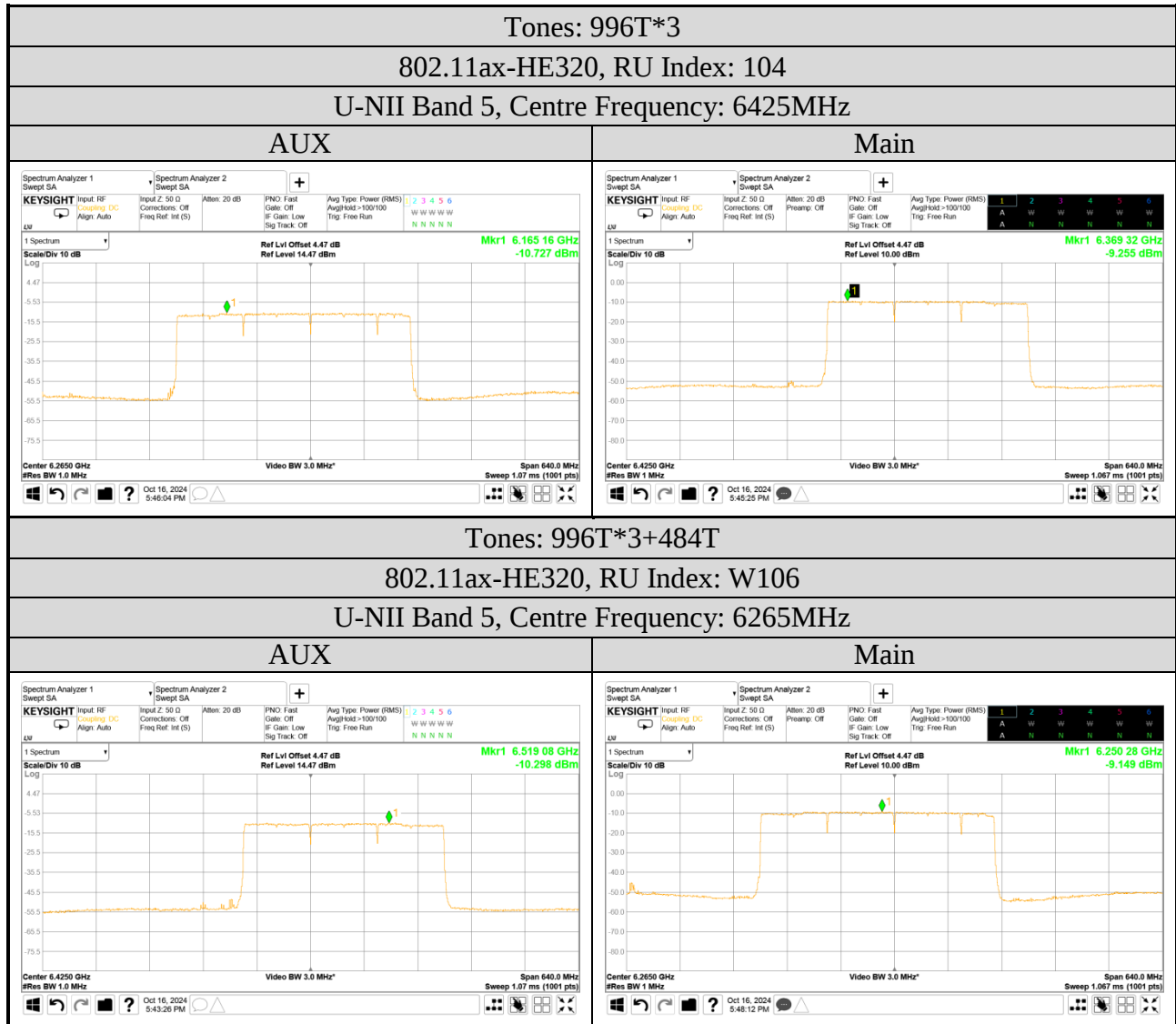
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A.4 MAXIMUM CONDUCTED OUTPUT POWER

Test Date	2024/10/07 ~ 08	Temp./Hum.	24°C/59 ~ 61%
Cable Loss	4.47dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Conducted Output Power Result

● OFDM Modulation

Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note2}	Limit
			AUX	Main				
802.11ax-HE20	5	5955	2.85	2.61	N/A	2.46	8.20	24dBm
		6175	2.40	2.29		2.46	7.82	
		6415	2.60	2.29		2.46	7.92	
	6	6435	2.73	2.15		2.50	7.96	
		6475	2.85	1.87		2.50	7.90	
		6515	3.25	2.17		2.50	8.25	
	7	6535	3.25	2.28		2.31	8.11	
		6695	2.97	3.01		2.31	8.31	
		6855	3.19	2.65		2.31	8.25	
	8	6875	3.21	2.51		2.11	7.99	
		6995	2.93	2.39		2.11	7.79	
		7115	-5.62	-5.22		2.11	-0.30	
802.11ax-HE40	5	5965	5.73	5.48	N/A	2.46	11.08	24dBm
		6165	5.47	5.13		2.46	10.77	
		6405	5.45	5.14		2.46	10.77	
	6	6445	5.63	4.90		2.50	10.79	
		6485	5.73	4.77		2.50	10.79	
		6525	6.15	5.11		2.31	10.98	
	7	6685	5.89	5.88		2.31	11.21	
		6845	6.12	5.43		2.31	11.11	
		6885	5.95	5.40		2.11	10.80	
	8	7005	5.77	5.30		2.11	10.66	
		7085	5.41	5.83		2.11	10.75	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ Directional gain (dBi) + duty cycle factor(dB) when duty cycle is less than 98%.

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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Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note 2}	Limit
			AUX	Main				
802.11ax-HE80	5	5985	8.83	8.26	N/A	2.46	14.02	24dBm
		6145	8.29	7.94		2.46	13.59	
		6385	9.02	8.55		2.46	14.26	
	6	6465	8.94	8.52		2.50	14.25	
		6545	8.98	8.68		2.50	14.34	
		6625	8.97	8.77		2.31	14.19	
	7	6705	8.23	8.32		2.31	13.60	
		6785	8.17	8.01		2.31	13.41	
	8	6865	8.34	8.28		2.11	13.43	
		6945	8.38	8.72		2.11	13.67	
		7025	8.61	9.01		2.11	13.93	
802.11ax-HE160	5	6025	11.69	11.54	N/A	2.46	17.09	24dBm
		6185	11.45	11.16		2.46	16.78	
		6345	11.83	11.30		2.46	17.04	
	6	6505	12.16	11.70		2.50	17.45	
		6665	11.67	11.55		2.31	16.93	
		6825	11.47	11.43		2.31	16.77	
	8	6985	11.59	11.77		2.11	16.80	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ Directional gain (dBi) + duty cycle factor(dB) when duty cycle is less than 98%.

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 = $10 \log[(10^{3.1/10} + 10^{1.7/10})/2]$ = 2.46dBi

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

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

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

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Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note 2}	Limit
			AUX	Main				
802.11be-EHT20	5	5955	2.86	2.60	N/A	2.46	8.20	24dBm
		6175	2.38	2.31		2.46	7.82	
		6415	2.59	2.32		2.46	7.93	
	6	6435	2.75	2.15		2.50	7.97	
		6475	2.82	1.87		2.50	7.88	
		6515	3.26	2.17		2.50	8.26	
	7	6535	3.24	2.29		2.31	8.11	
		6695	2.94	3.01		2.31	8.30	
		6855	3.19	2.65		2.31	8.25	
	8	6875	3.19	2.51		2.11	7.98	
		6995	2.91	2.39		2.11	7.78	
		7115	-5.60	-5.21		2.11	-0.28	
802.11be-EHT40	5	5965	5.72	5.46	N/A	2.46	11.06	
		6165	5.43	5.08		2.46	10.73	
		6405	5.42	5.11		2.46	10.74	
	6	6445	5.62	4.86		2.50	10.77	
		6485	5.70	4.76		2.50	10.77	
	7	6525	6.15	5.08		2.31	10.97	
		6685	5.86	5.84		2.31	11.17	
		6845	6.11	5.41		2.31	11.09	
	8	6885	5.92	5.38		2.11	10.78	
		7005	5.75	5.30		2.11	10.65	
		7085	5.36	5.78		2.11	10.70	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ Directional gain (dBi) + duty cycle factor(dB) when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

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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

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Modulation Type	U-NII Band	Centre Frequency (MHz)	Average Coneduted Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Directional Gain (dBi) ^{Note3}	Total E.I.R.P. (dBm) ^{Note 2}	Limit
			AUX	Main				
802.11be-EHT80	5	5985	8.92	8.59	N/A	2.46	14.23	24dBm
		6145	8.39	8.23		2.46	13.78	
		6385	9.11	8.79		2.46	14.42	
	6	6465	8.99	8.75		2.50	14.38	
		6545	9.20	8.91		2.50	14.57	
		6625	9.08	9.01		2.31	14.37	
	7	6705	8.32	8.48		2.31	13.72	
		6785	9.20	8.22		2.31	14.06	
	8	6865	8.48	8.54		2.11	13.63	
		6945	8.44	8.96		2.11	13.83	
		7025	8.45	8.92		2.11	13.81	
802.11be-EHT160	5	6025	11.73	11.54	N/A	2.46	17.11	24dBm
		6185	11.67	11.44		2.46	17.03	
		6345	11.85	11.27		2.46	17.04	
	6	6505	12.17	11.76		2.50	17.48	
		6665	11.68	11.63		2.31	16.98	
		6825	11.46	11.47		2.31	16.79	
	8	6985	11.62	11.82		2.11	16.84	
802.11be-EHT3200	5	6105	13.82	13.67	N/A	2.46	19.22	24dBm
		6265	14.10	13.35		2.46	19.21	
		6425	14.56	13.98		2.46	19.75	
	6	6585	14.76	14.07		2.50	19.94	
		6745	14.25	14.04		2.31	19.47	
		6905	13.00	12.67		2.11	17.96	

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

2. According to KDB 662911 D01 E)1), Total E.I.R.P.(dBm) = Sum to individual output power (dBm)+ Directional gain (dBi) + duty cycle factor(dB) when duty cycle is less than 98%.

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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

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