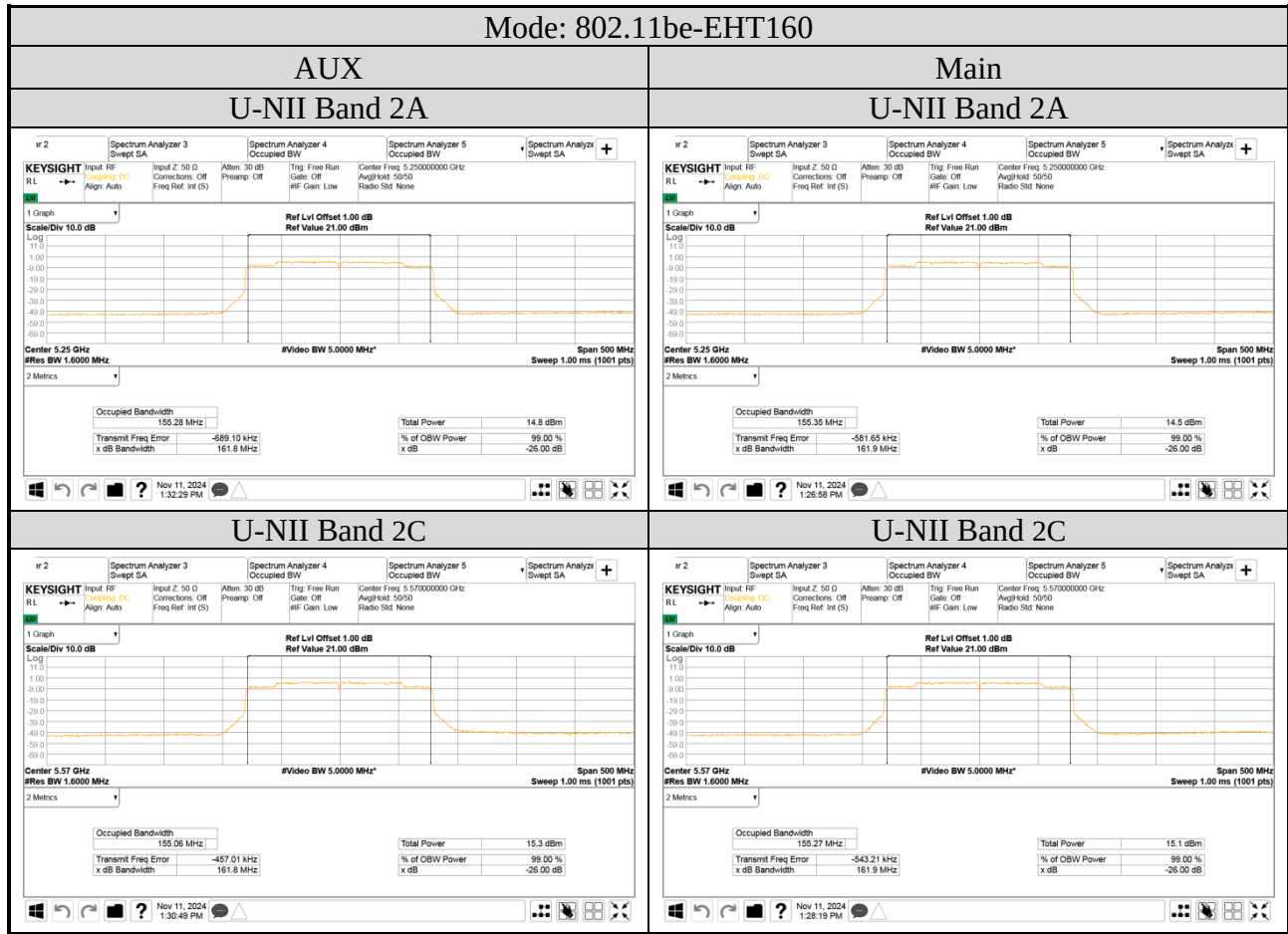


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A.4 POWER SPECTRAL DENSITY

Test Date	2024/11/07 ~ 12	Temp./Hum.	23 ~ 25°C/57 ~ 64%
Cable Loss	1.0dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Power Spectral Density Result

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11a	2A	5260	4.645	4.562	N/A	4.645	11 dBm/MHz
		5300	4.706	4.197		4.706	
		5320	4.477	4.320		4.477	
	2C	5500	5.134	4.698		5.134	
		5580	4.798	4.401		4.798	
		5700	4.529	4.577		4.577	
		5720	4.726	4.485		4.726	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11n-HT20	2A	5260	4.771	4.484	N/A	7.640	11 dBm/MHz
		5300	4.720	3.864		7.323	
		5320	4.575	3.774		7.203	
	2C	5500	5.073	4.372		7.747	
		5580	4.563	4.145		7.369	
		5700	4.393	4.394		7.404	
		5720	4.386	4.320		7.363	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11n-HT40	2A	5270	1.047	0.924	N/A	3.996	11 dBm/MHz
		5310	0.998	0.636		3.831	
	2C	5510	1.518	1.252		4.397	
		5550	1.238	1.372		4.316	
		5670	1.224	0.887		4.069	
		5710	0.709	1.177		3.960	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11ac-VHT80	2A	5290	-1.968	-2.377	N/A	0.843	11 dBm/MHz
	2C	5530	-1.599	-1.662		1.380	
		5610	-2.209	-2.347		0.733	
		5690	-2.042	-2.087		0.946	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11ac-VHT160	2A	5250	-5.381	-4.910	N/A	-2.129	11 dBm/MHz
	2C	5570	-4.920	-5.107		-2.002	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11ax-HE20	2A	5260	4.421	4.396	N/A	7.419	11 dBm/MHz
		5300	4.475	4.212		7.356	
		5320	4.419	3.682		7.076	
	2C	5500	4.907	4.608		7.770	
		5580	4.158	4.517		7.352	
		5700	4.227	4.517		7.385	
		5720	4.372	4.357		7.375	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE40	2A	5270	0.806	0.938	N/A	3.883	11 dBm/MHz
		5310	0.787	0.467		3.640	
	2C	5510	1.290	1.313		4.312	
		5550	1.057	1.258		4.169	
		5670	0.843	1.213		4.042	
		5710	0.630	0.863		3.758	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11ax-HE80	2A	5290	-1.636	-2.313	N/A	1.049	11 dBm/MHz
	2C	5530	-1.508	-1.745		1.385	
		5610	-1.990	-2.131		0.950	
		5690	-2.091	-1.944		0.993	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE160	2A	5250	-5.049	-5.475	N/A	-2.246	11 dBm/MHz
	2C	5570	-4.843	-4.864		-1.843	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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				AUX	Main			
802.11ax-HE20	2A	5320	26/8	5.539	5.420	N/A	8.490	11 dBm/MHz
			52/40	6.362	5.696	N/A	9.052	
			106/54	6.479	6.111	N/A	9.309	
	2C	5500	26/0	6.797	6.362	N/A	9.595	
			52/37	6.905	6.704	N/A	9.816	
			106/53	7.009	6.575	N/A	9.808	
		5700	26/8	5.984	5.900	N/A	8.953	
			52/40	6.168	6.746	N/A	9.477	
			106/54	6.418	6.296	N/A	9.368	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 2	Limit
				AUX	Main			
802.11ax-HE40	2A	5310	242/62	4.436	3.770	N/A	7.126	11 dBm/MHz
	2C	5510	242/61	4.499	4.568		7.544	
		5670	242/62	4.123	4.367		7.257	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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				AUX	Main			
802.11ax-HE80	2A	5290	484/66	1.075	0.477	N/A	3.797	11 dBm/MHz
	2C	5530	484/65	1.542	1.176		4.373	
		5610	484/66	0.872	0.627		3.762	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 2	Limit
				AUX	Main			
802.11ax-HE160	2A	5250	996/67	-2.201	-2.029	N/A	0.896	11 dBm/MHz
			996/S67	-2.069	-3.055		0.476	
	2C	5570	996/67	-2.433	-2.304		0.642	
			996/S67	-2.305	-2.395		0.661	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11be-EHT20	2A	5260	4.352	4.148	N/A	7.261	11 dBm/MHz
		5300	4.312	3.956		7.148	
		5320	4.114	4.062		7.098	
	2C	5500	4.715	4.681		7.708	
		5580	4.249	4.334		7.302	
		5700	4.158	4.118		7.148	
		5720	4.294	4.370		7.342	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11be-EHT40	2A	5270	1.032	1.055	N/A	4.054	11 dBm/MHz
		5310	0.589	0.642		3.626	
	2C	5510	1.493	1.319		4.417	
		5550	1.401	1.373		4.397	
		5670	0.902	0.971		3.947	
		5710	0.691	1.038		3.878	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11be-EHT80	2A	5290	-1.730	-1.834	N/A	1.229	11 dBm/MHz
	2C	5530	-1.410	-1.558		1.527	
		5610	-2.082	-2.000		0.969	
		5690	-1.807	-2.036		1.090	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main			
802.11be-EHT160	2A	5250	-5.249	-5.553	N/A	-2.388	11 dBm/MHz
	2C	5570	-4.775	-4.791		-1.773	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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				AUX	Main			
802.11be-EHT20	2A	5320	26/8	5.443	5.173	N/A	8.320	11 dBm/MHz
			52/40	6.024	5.471	N/A	8.767	
			106/54	6.288	5.792	N/A	9.057	
	2C	5500	26/0	6.325	6.071	N/A	9.210	
			52/37	6.697	6.425	N/A	9.573	
			106/53	6.667	6.508	N/A	9.599	
		5700	26/8	5.957	6.019	N/A	8.998	
			52/40	6.294	6.225	N/A	9.270	
			106/54	6.192	6.232	N/A	9.222	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 2	Limit
				AUX	Main			
802.11be-EHT40	2A	5310	242/62	4.412	3.892	N/A	7.170	11 dBm/MHz
	2C	5510	242/61	4.371	4.605		7.500	
		5670	242/62	4.057	4.368		7.226	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

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				AUX	Main			
802.11be-EHT80	2A	5290	484/66	1.090	0.590	N/A	3.857	11 dBm/MHz
	2C	5530	484/65	1.178	1.466		4.335	
		5610	484/66	0.399	0.717		3.571	

Note :1. All results have been included cable loss.

2. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

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

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 2	Limit
				AUX	Main			
802.11be-EHT160	2A	5250	996/67	-2.055	-5.387	N/A	-0.399	11 dBm/MHz
			996/S67	-2.145	-6.296		-0.732	
	2C	5570	996/67	-2.145	-5.451		-0.480	
			996/S67	-2.163	-5.404		-0.478	

Note :1. All results have been included cable loss.

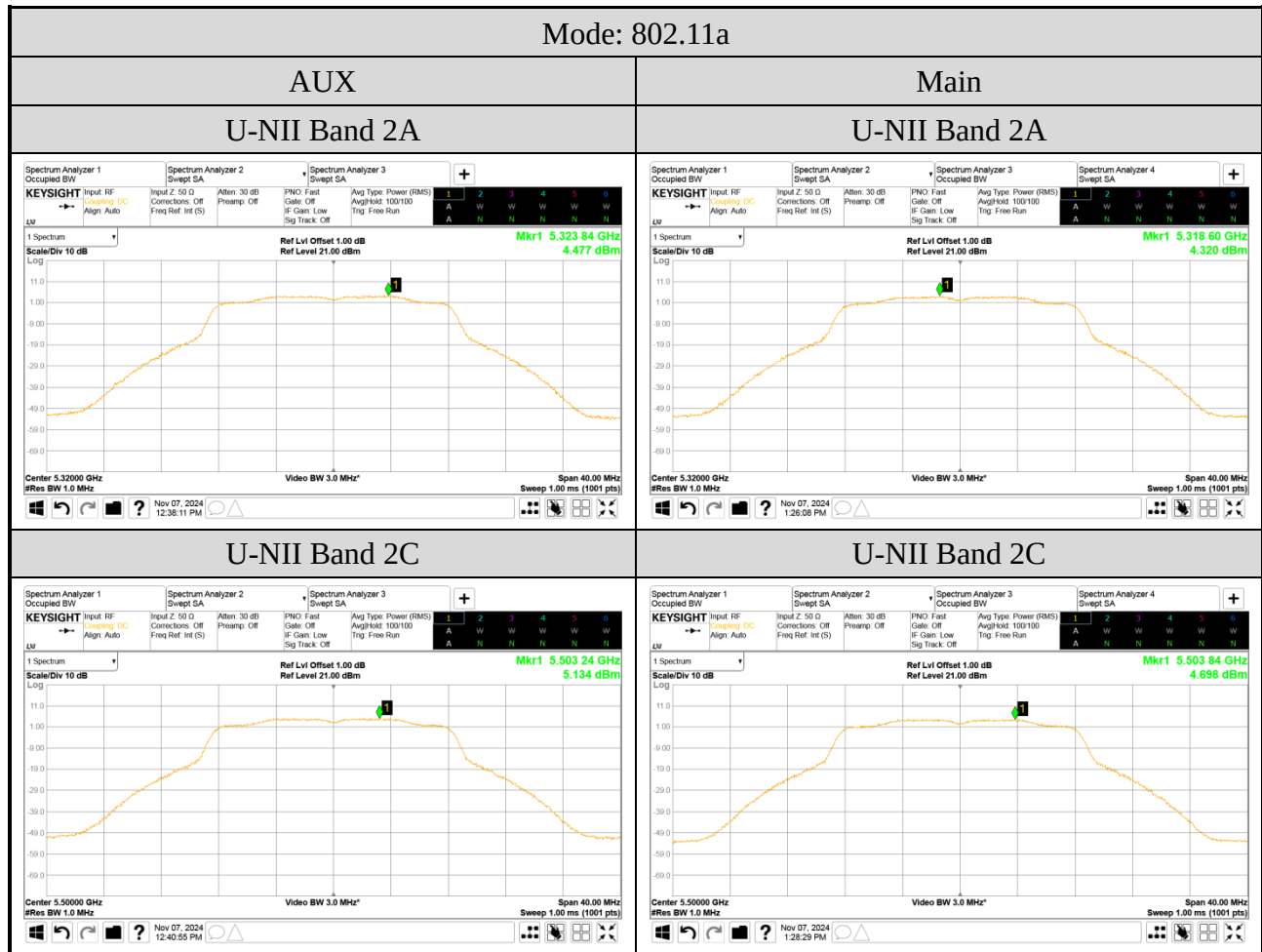
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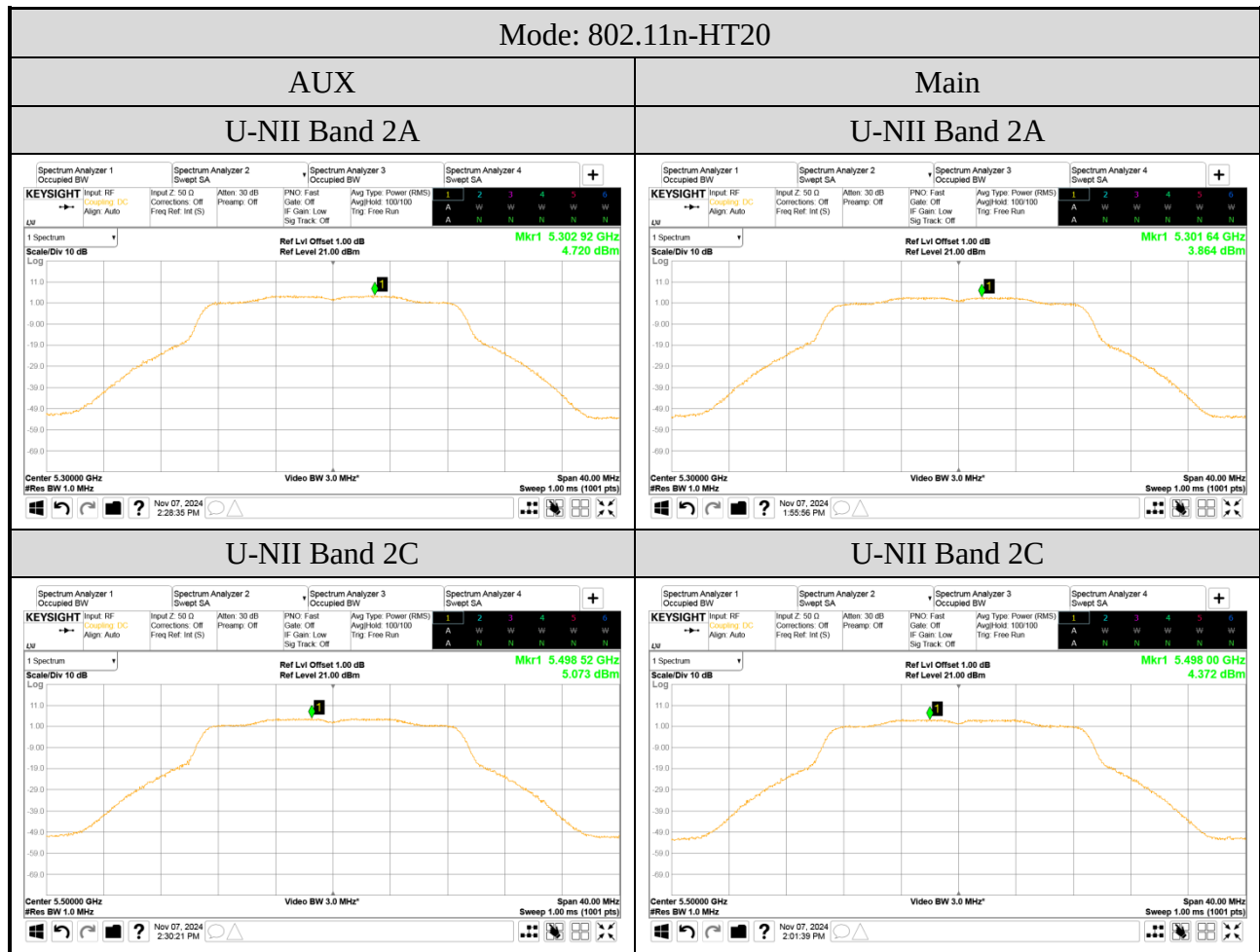
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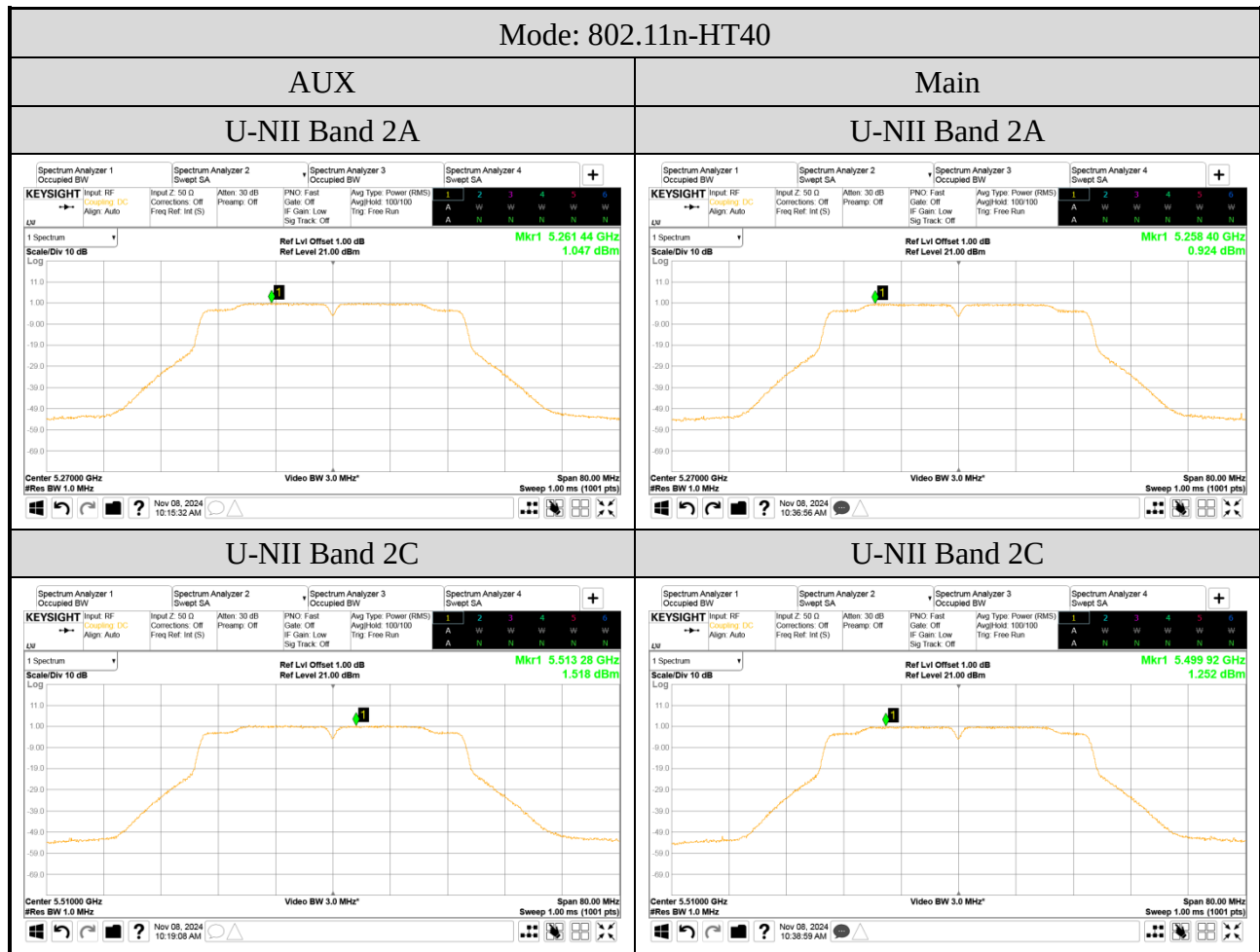
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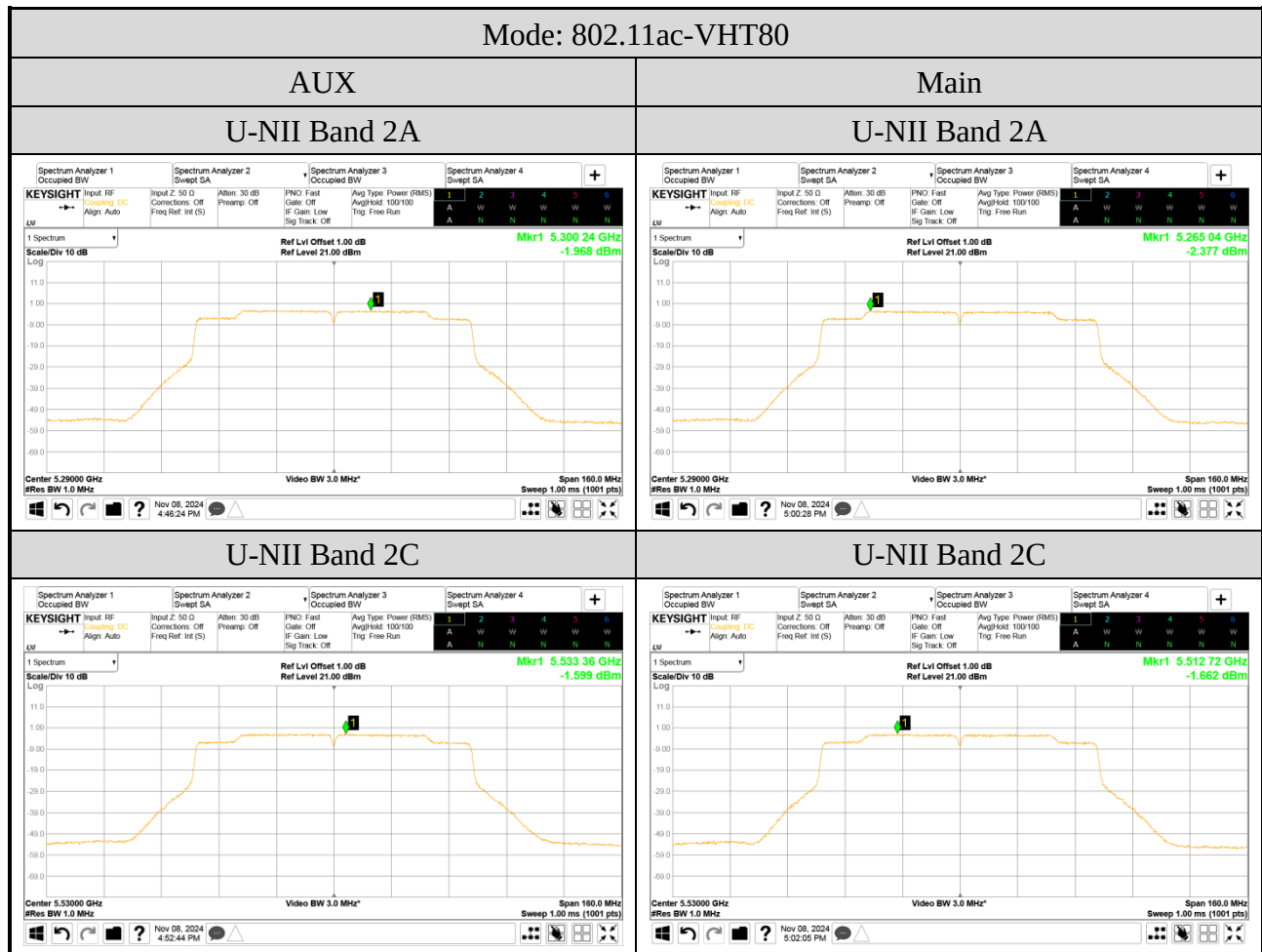
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A.4.2 Measurement Plots



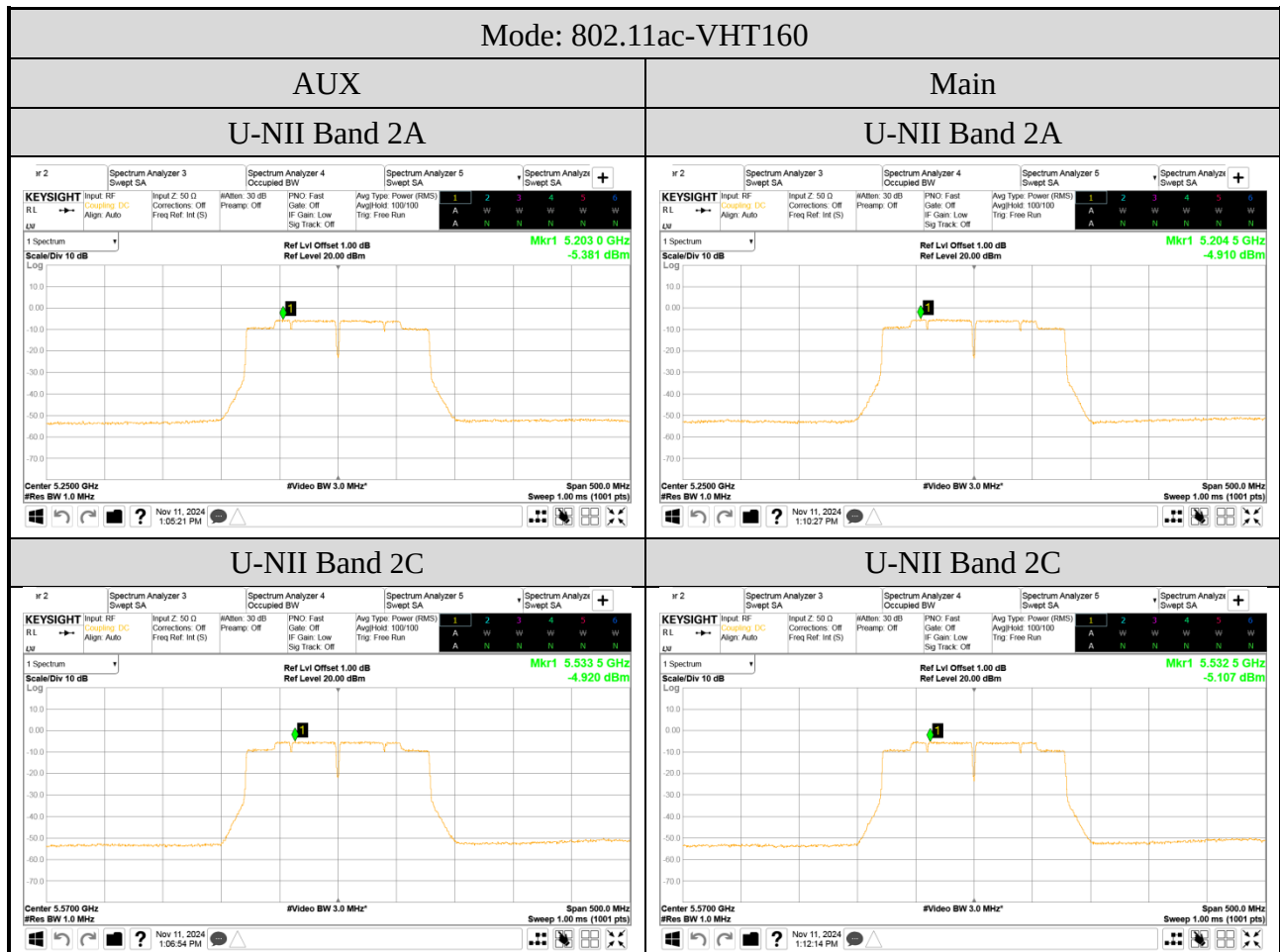


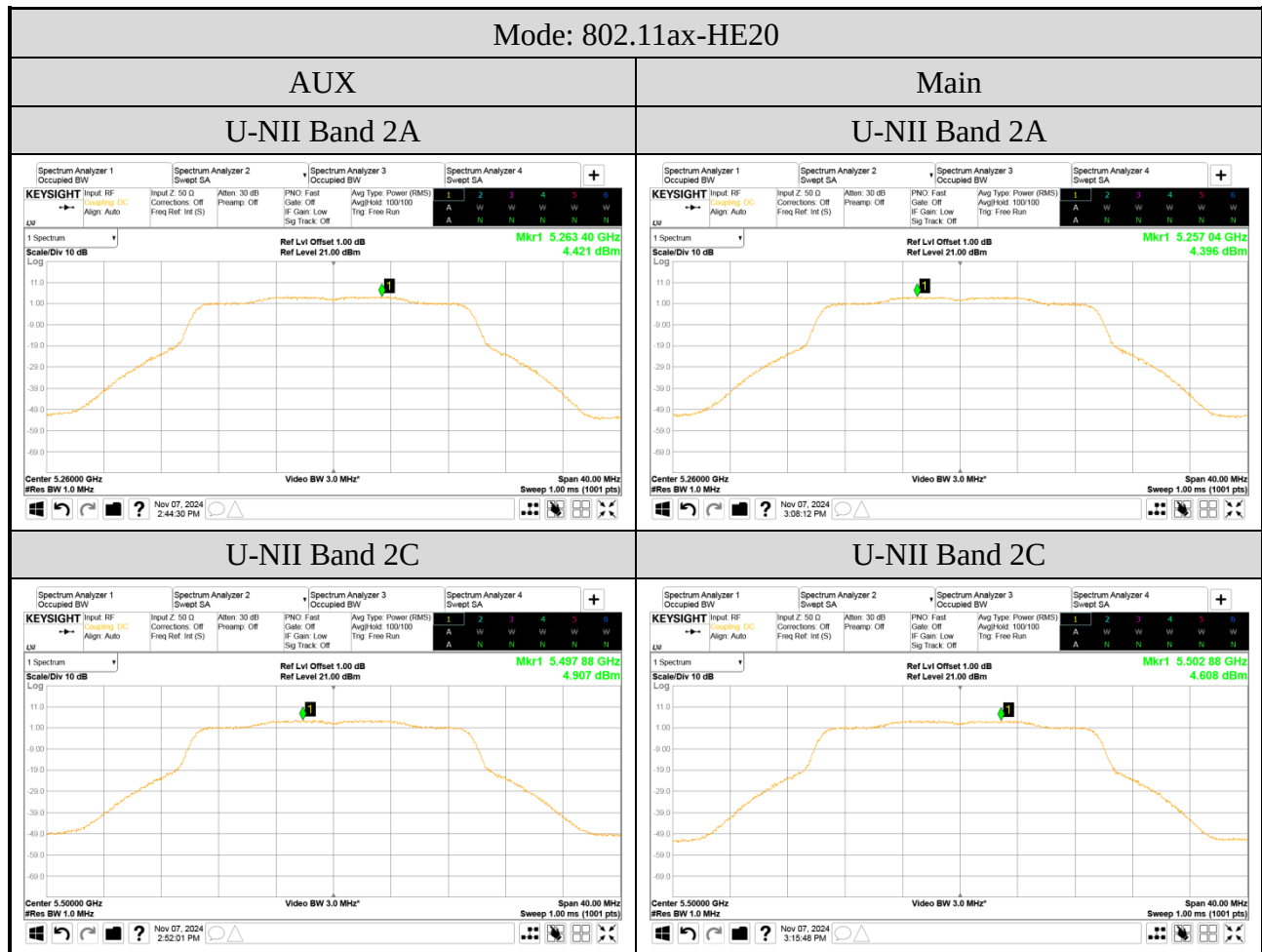


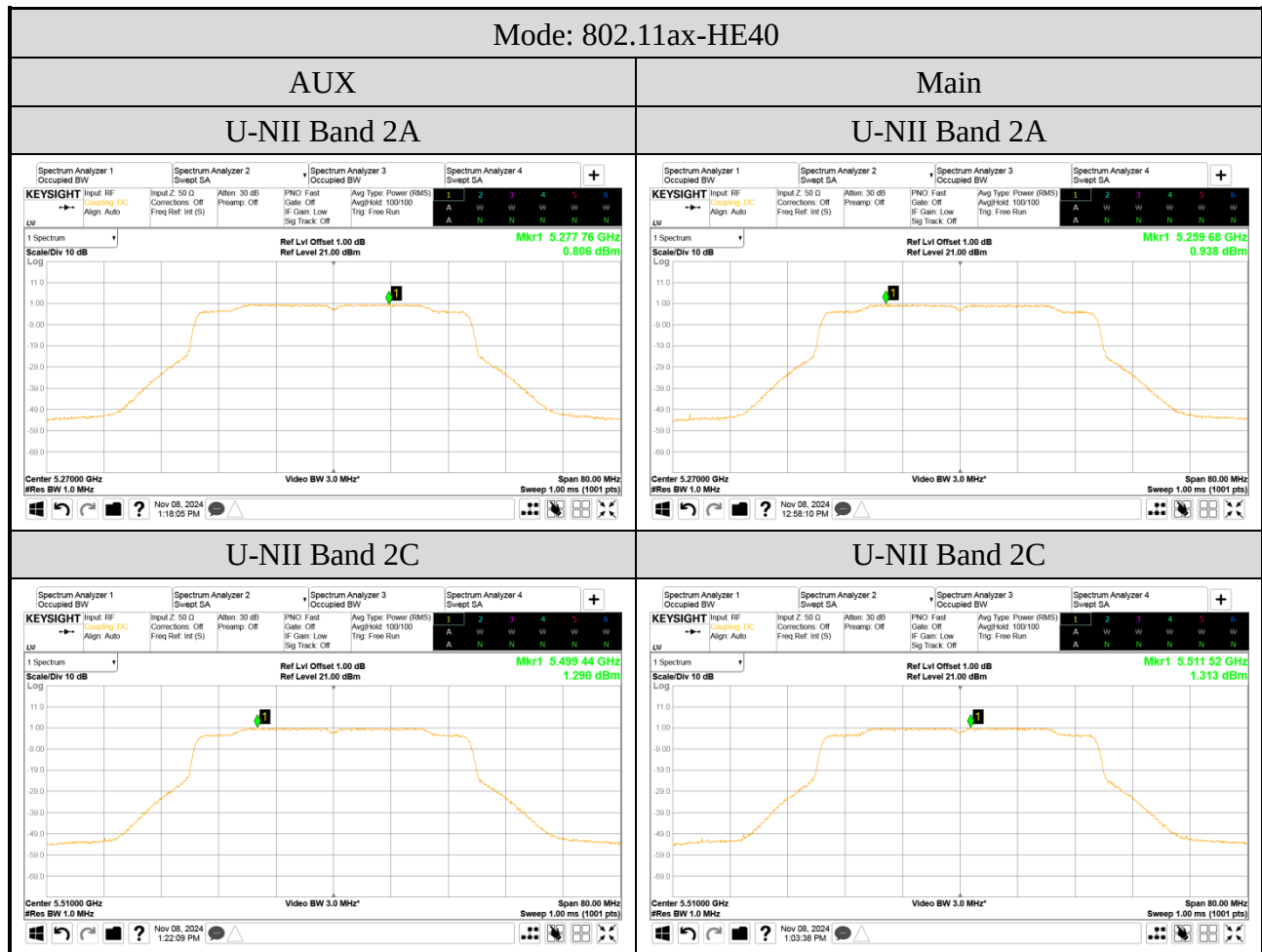


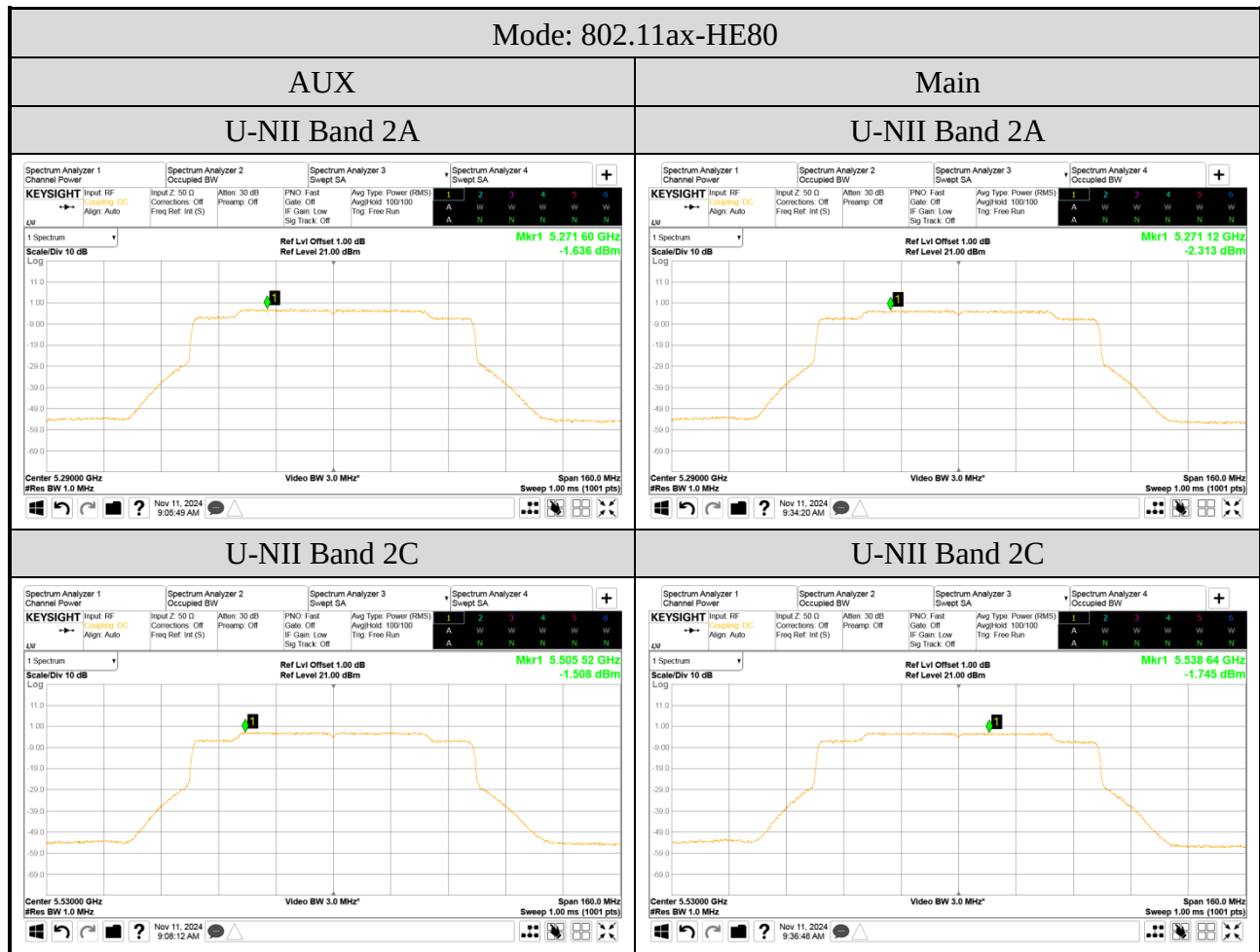
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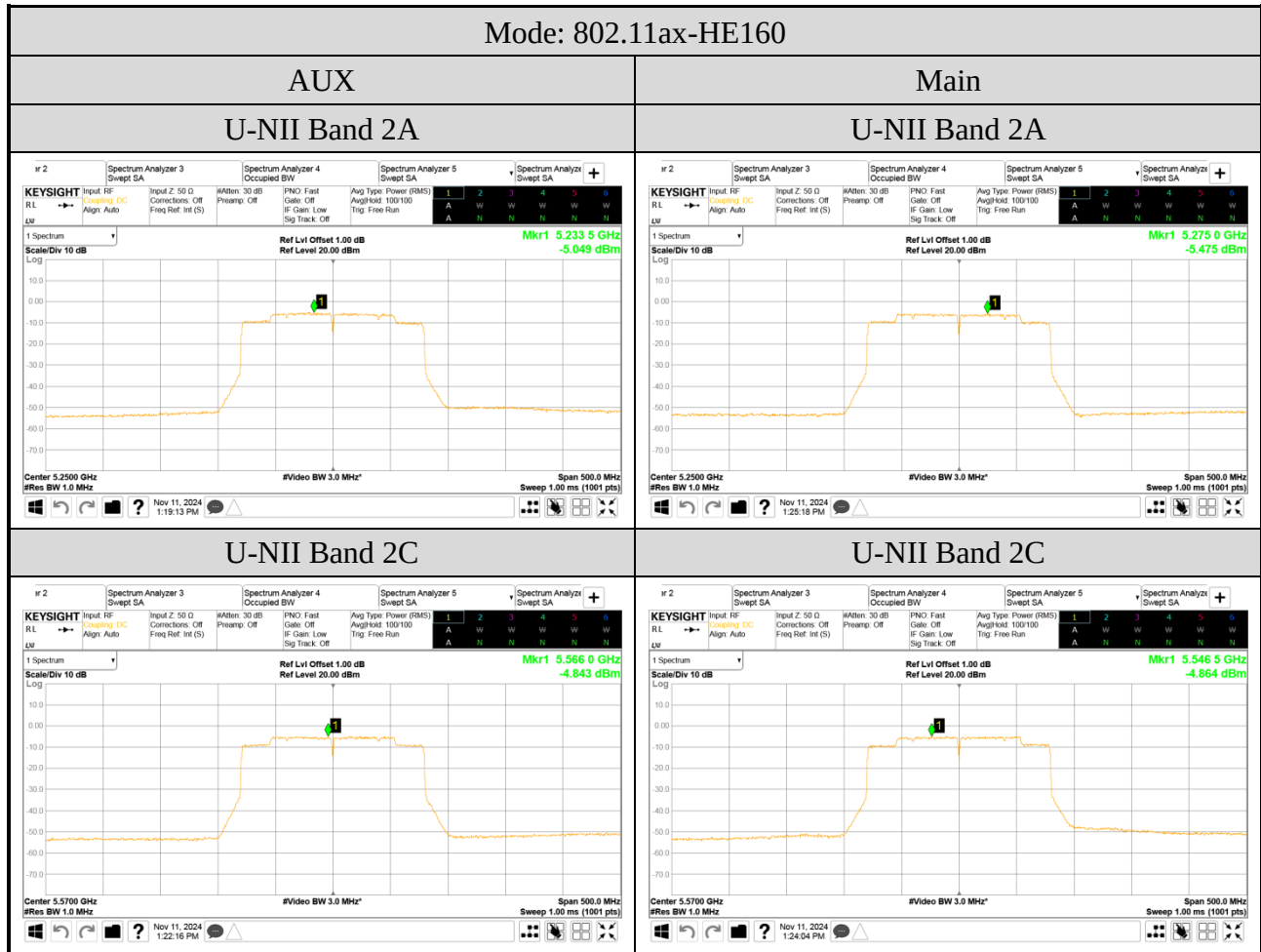
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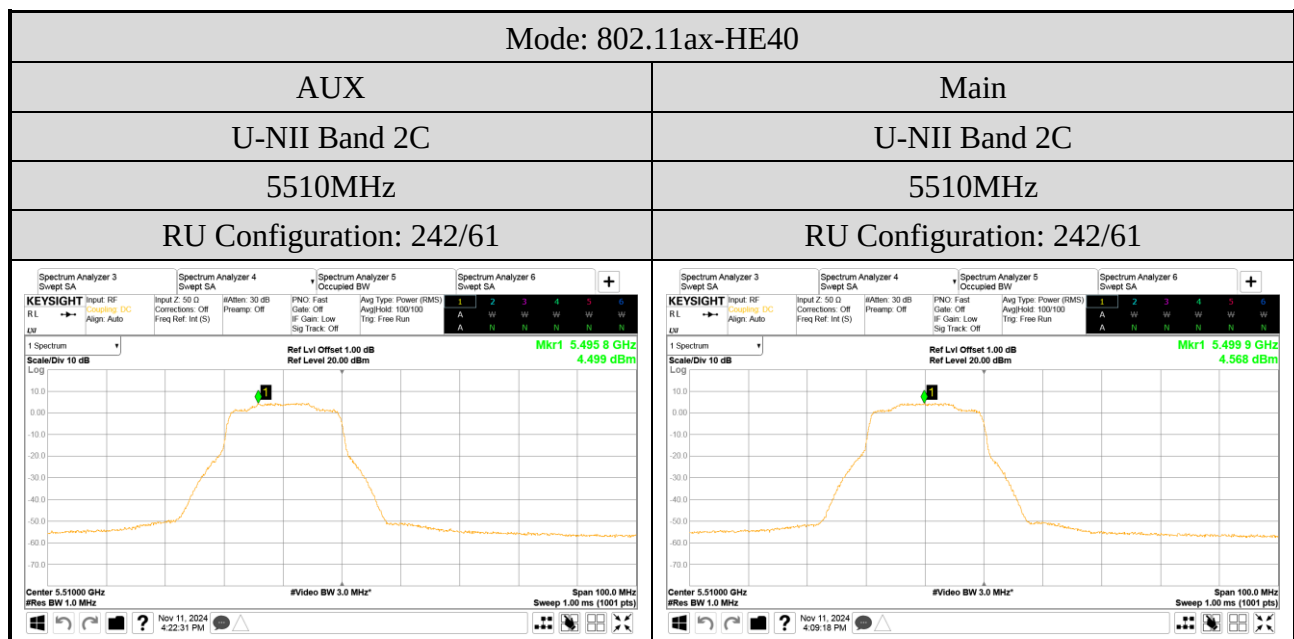
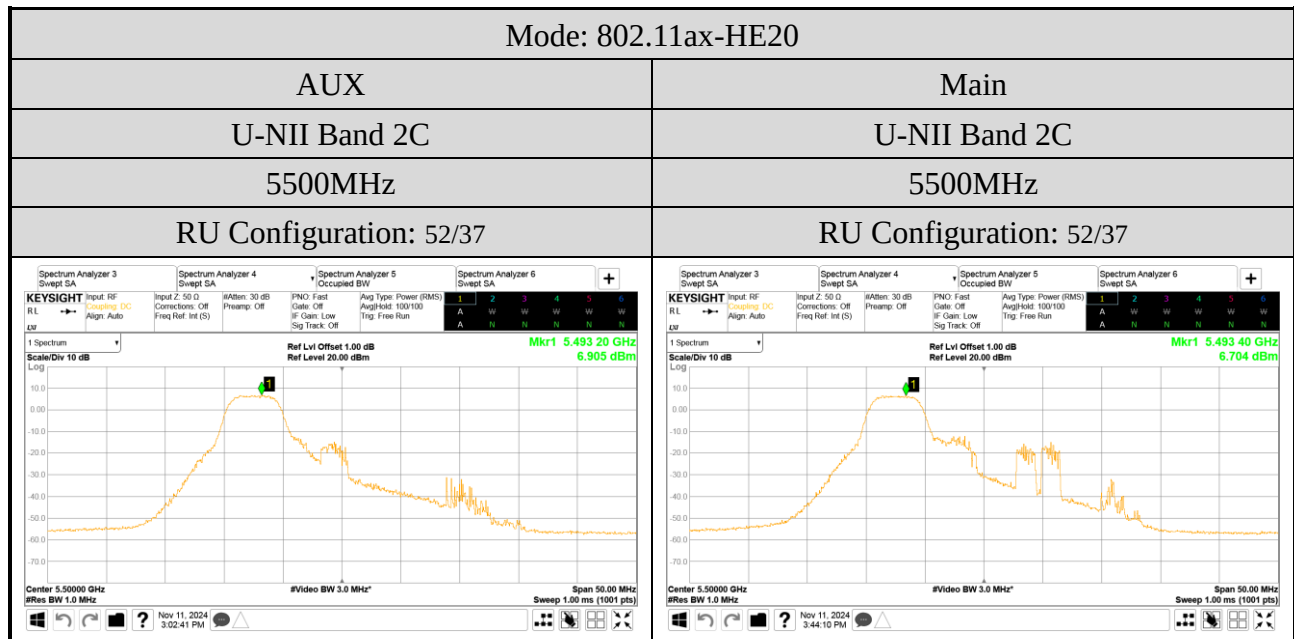


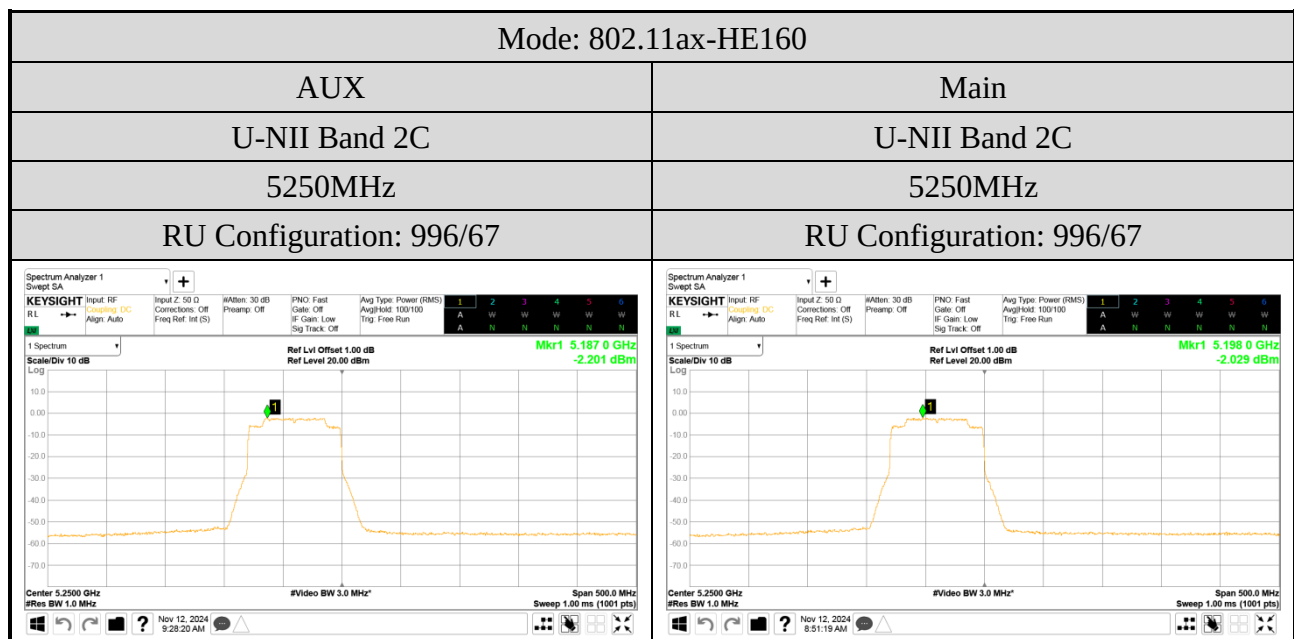
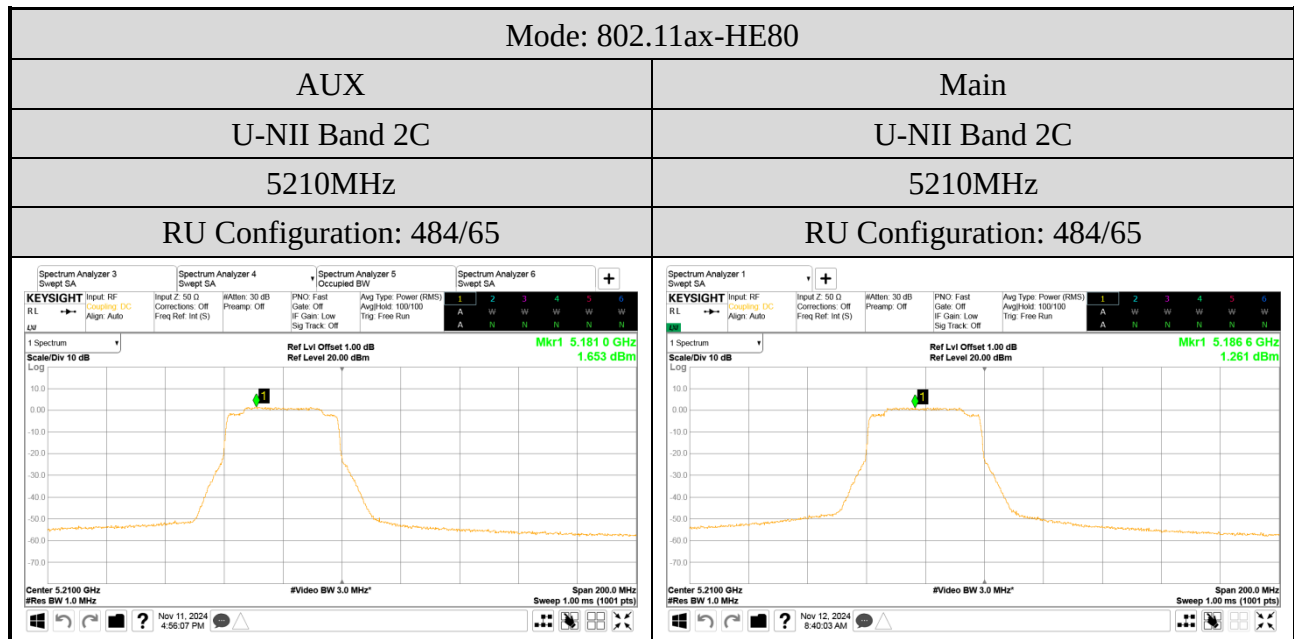


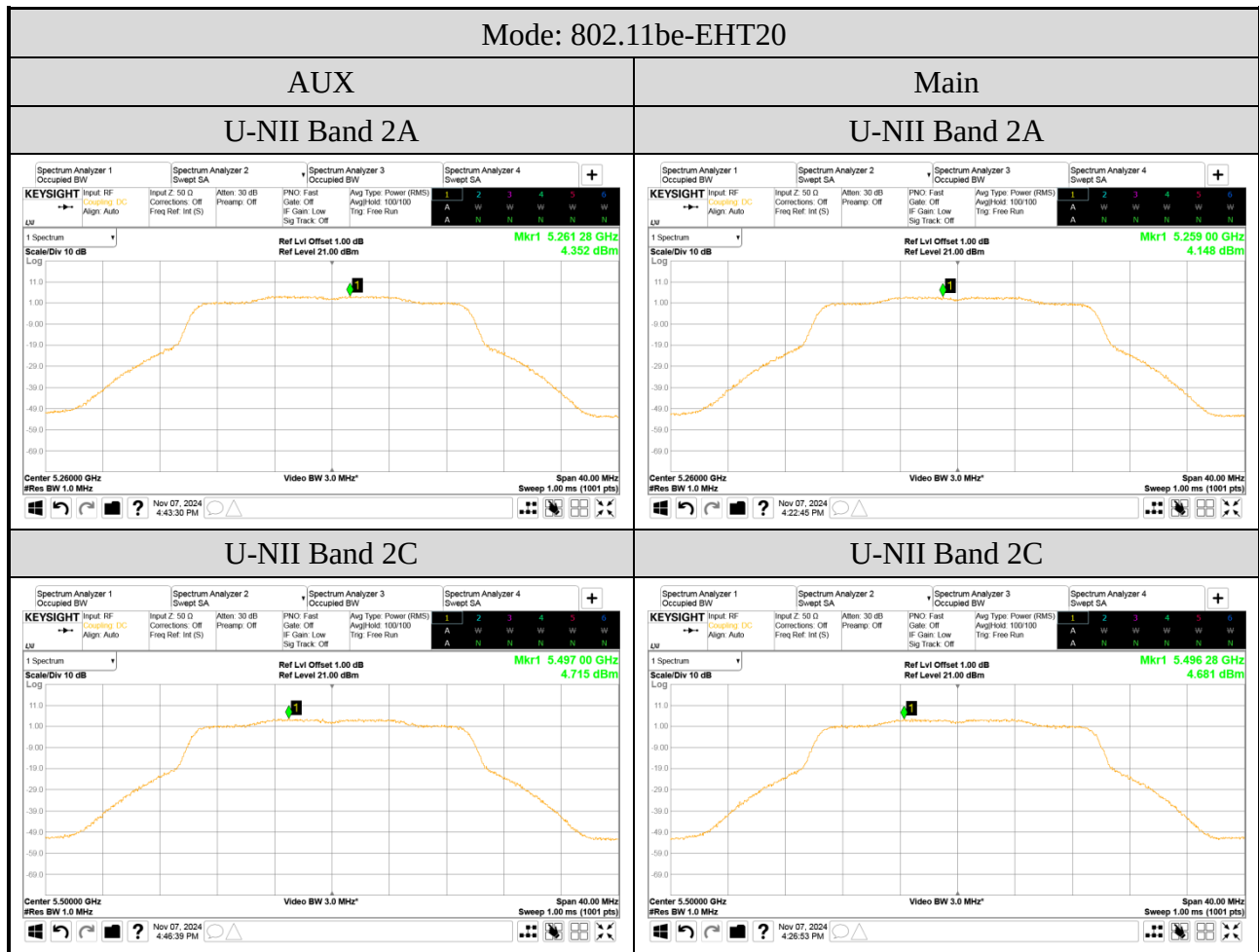


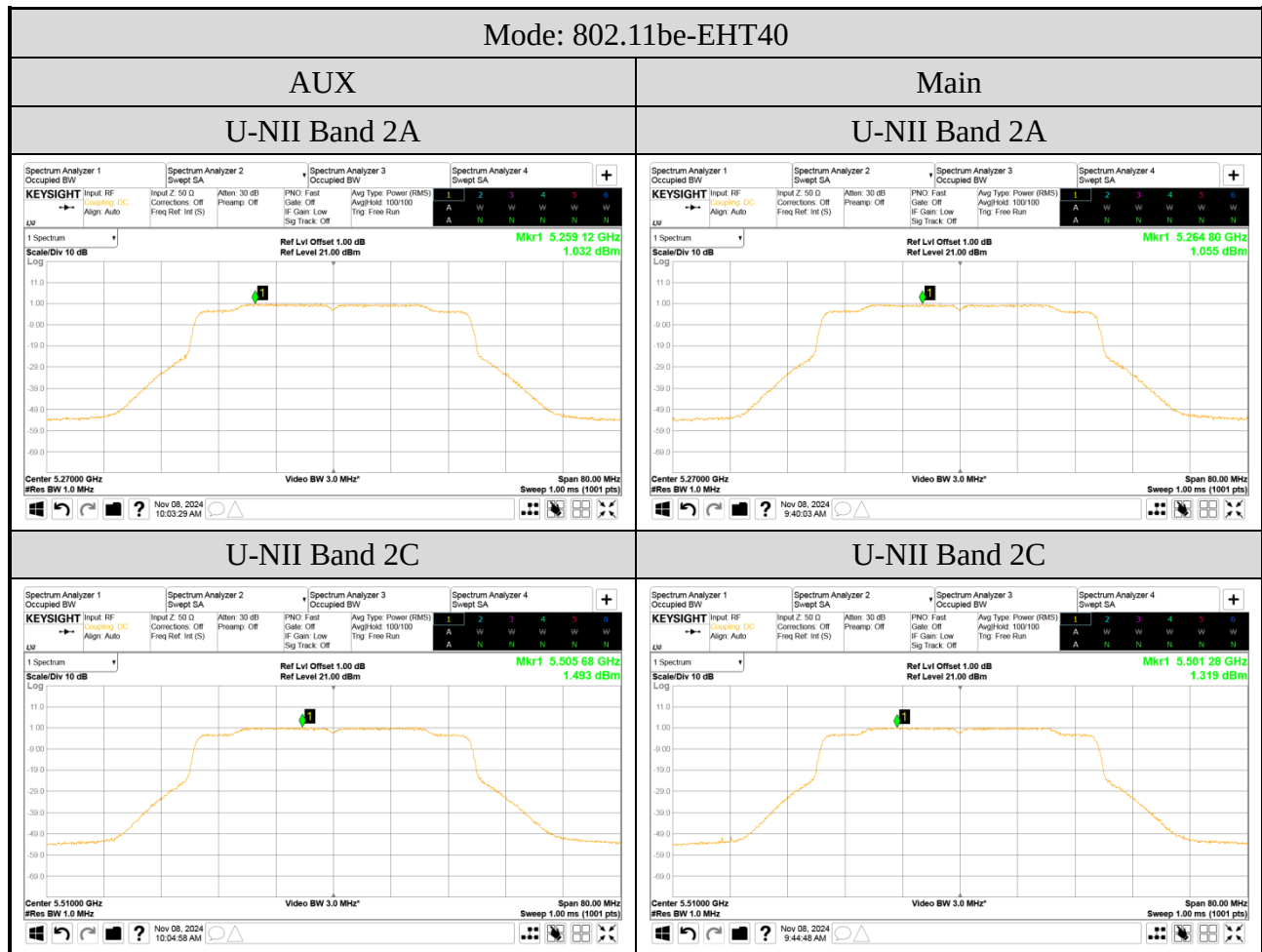


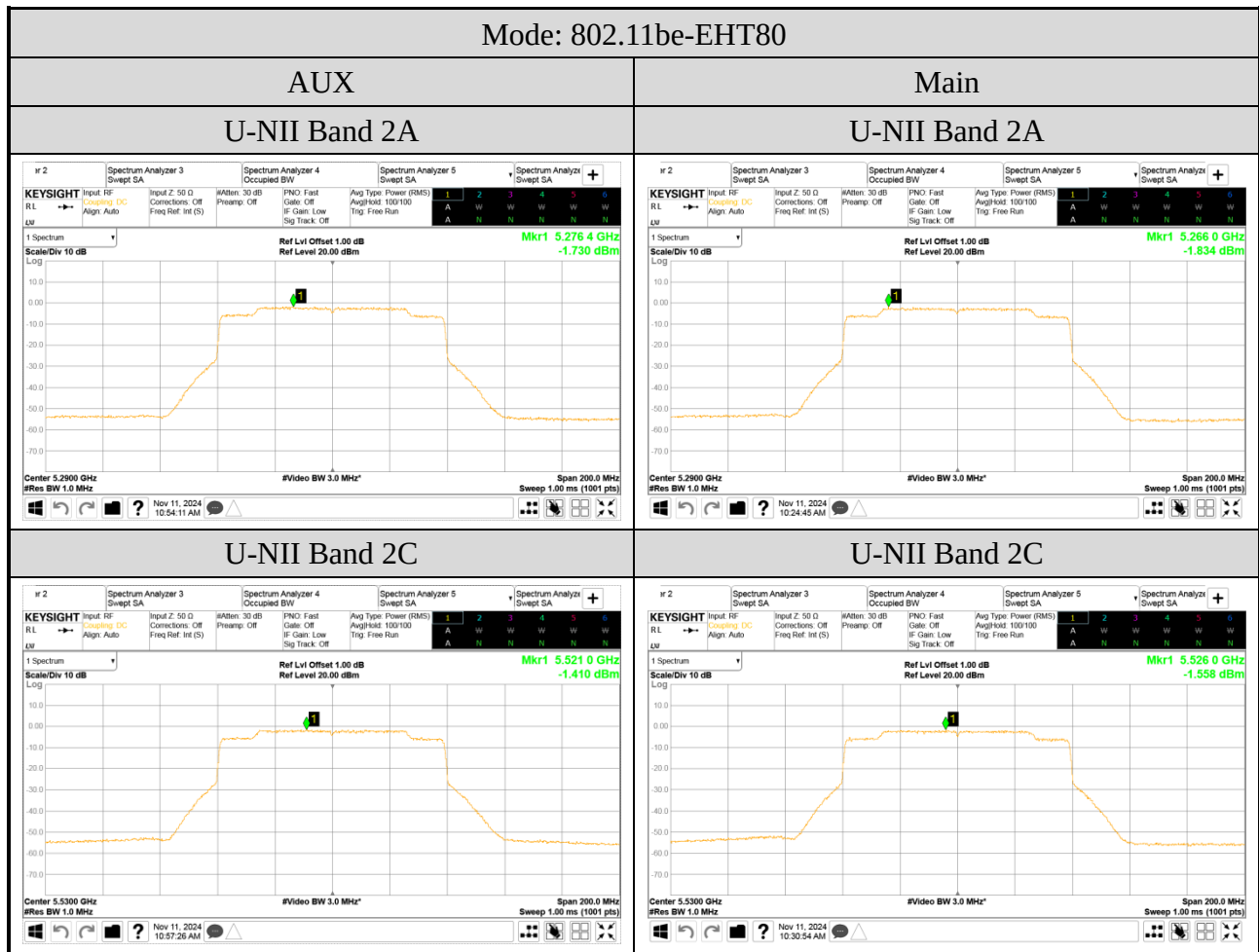


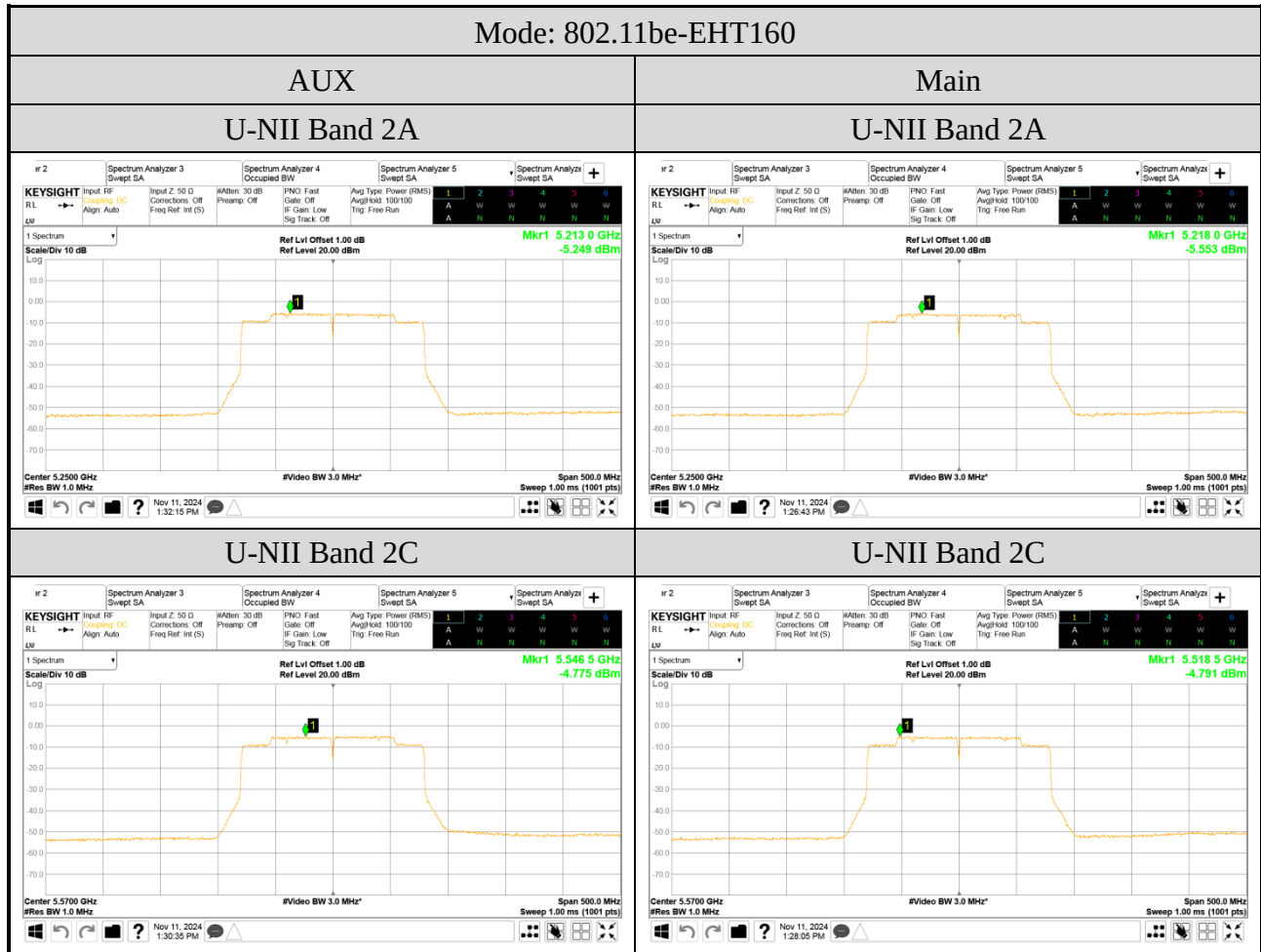






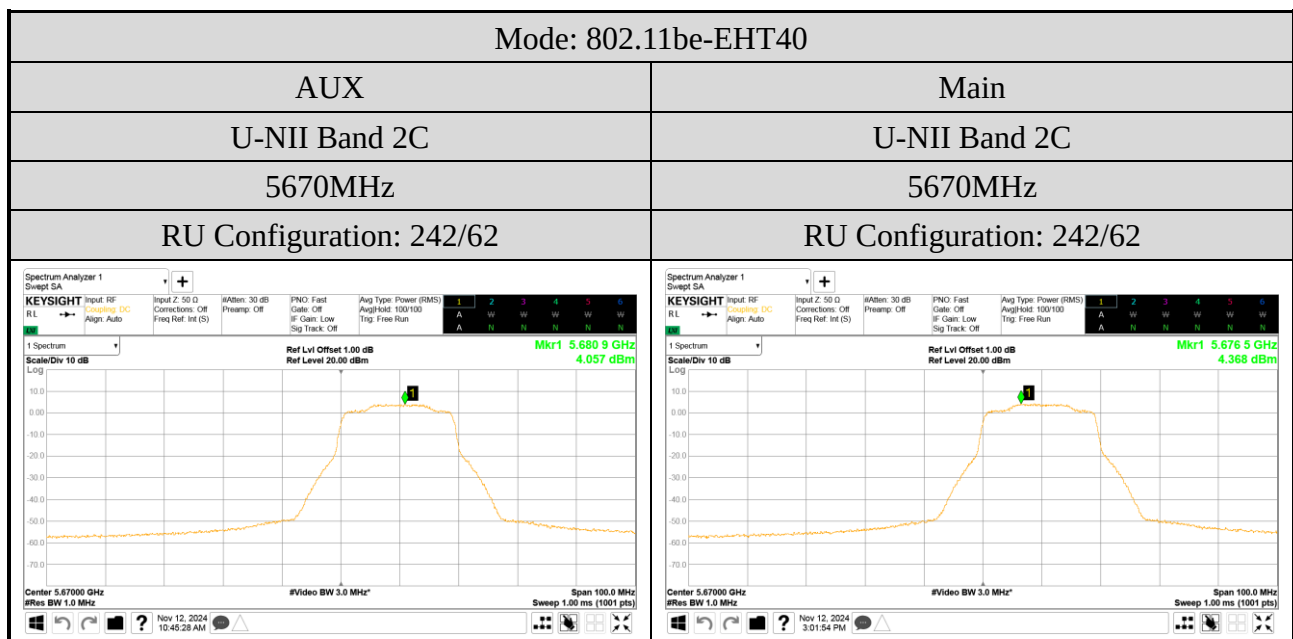
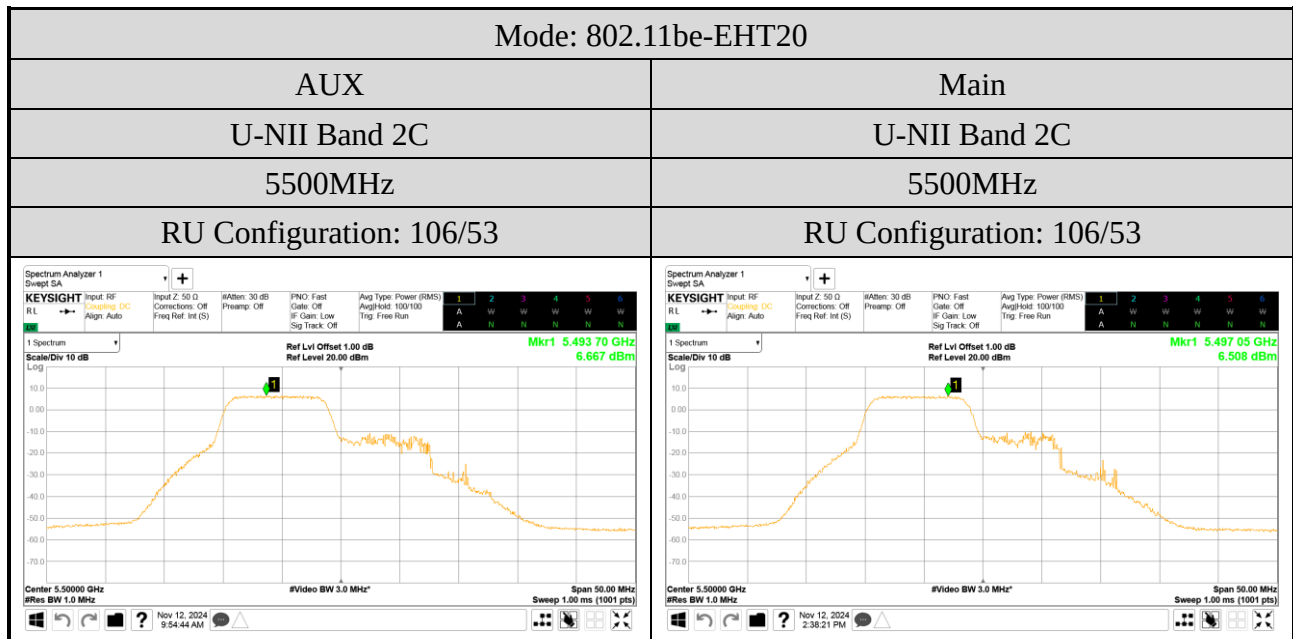






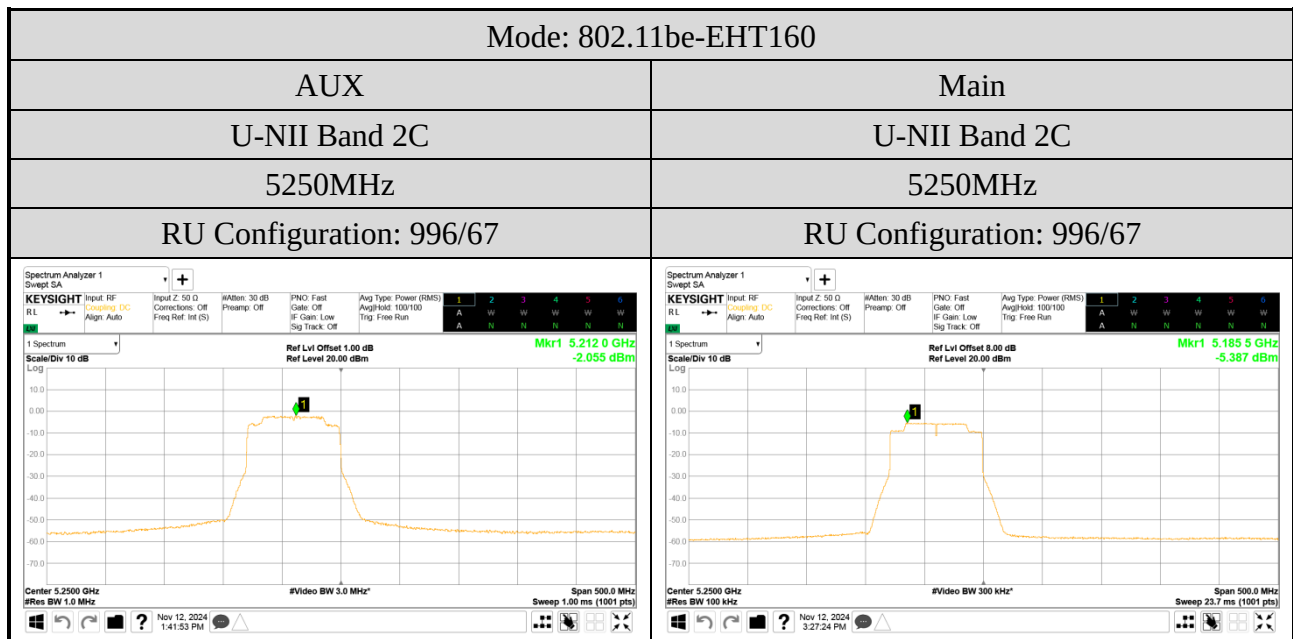
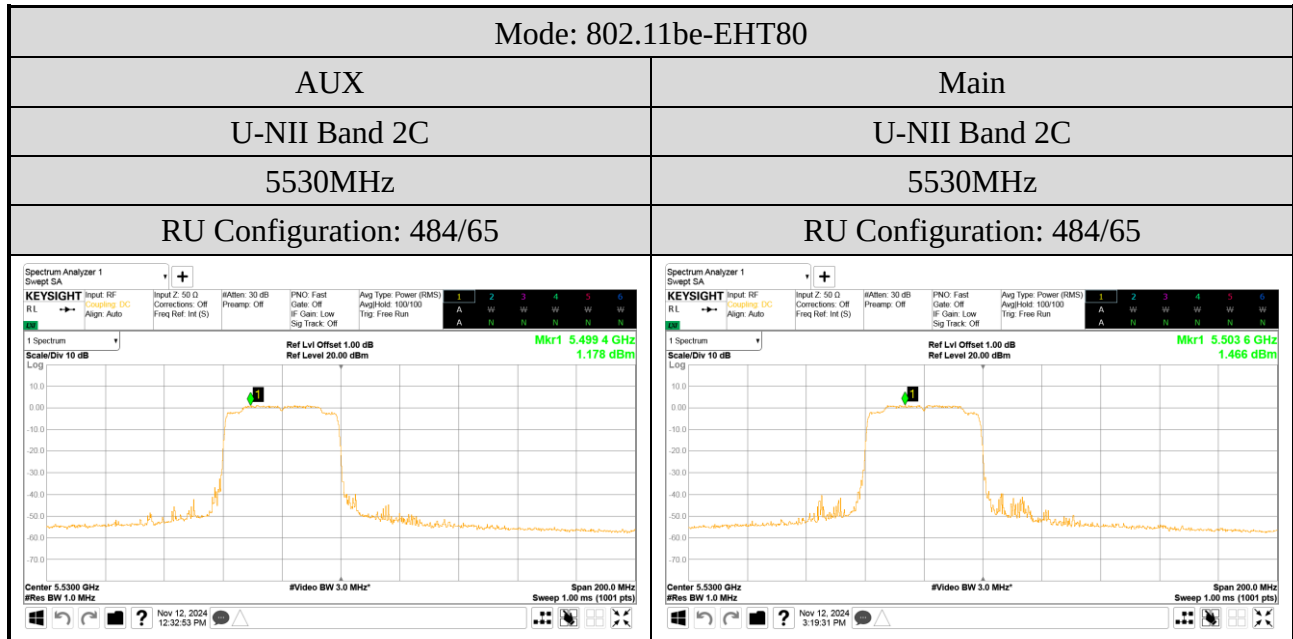
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A.5 FREQUENCY STABILITY

Test Date	2024/11/01	Temp./Hum.	24°C/60%
Cable Loss	---	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Frequency stability Result

Temperature (°C)	Voltage (Vac)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	120	5500	5499.980	-3.636
-30	102		5499.989	-2.000
	138		5499.979	-3.818
-20	102		5500.020	3.636
	138		5500.018	3.273
-10	102		5500.028	5.091
	138		5499.994	-1.091
0	102		5500.001	0.182
	138		5500.027	4.909
10	102		5499.982	-3.273
	138		5500.023	4.182
20	102		5500.007	1.273
	138		5499.996	-0.727
30	102		5499.972	-5.091
	138		5499.985	-2.727
40	102		5500.014	2.545
	138		5500.017	3.091
50	102		5500.029	5.273
	138		5499.981	-3.455