

## A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED

### BANDWIDTH

Test Date	2023/03/09 ~ 13	Temp./Hum.	20 ~ 24°C/45 ~ 53%
Cable Loss	2.70dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

#### A.3.1 Average Output Power and Emission/Occupied Bandwidth

Mode 802.11a	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5180	22.86	22.65	16.600	16.594	15.40	15.38	N/A	24	N/A	
	5200	22.95	23.27	16.622	16.662	15.36	15.41				
	5240	22.61	23.28	16.604	16.604	15.13	15.33				
U-NII Band 2A	5260	21.89	22.82	16.618	16.535	15.20	15.42	N/A	24	24.40	
	5300	22.59	23.16	16.610	16.550	15.22	15.43			24.54	
	5320	23.31	23.05	16.624	16.656	15.11	15.34			24.63	
U-NII Band 2C	5500	23.11	21.69	16.677	16.586	15.47	15.35	N/A	24	24.36	
	5580	23.38	21.77	16.529	16.599	15.70	15.53			24.38	
	5700	22.92	22.46	16.627	16.582	15.45	15.33			24.51	
	5720	21.95	22.08	16.617	16.538	15.36	15.41			24.41	
Mode 802.11a	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5745	13.20	15.13	16.661	16.603	15.48	15.50	N/A	30	N/A	
	5785	12.61	15.56	16.580	16.620	15.52	15.51				
	5825	13.18	10.61	16.573	16.576	15.38	15.39				

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

2. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11n-HT20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>						
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main										
		Aux	Main	Aux	Main												
U-NII Band 1	5180	23.55	23.90	17.734	17.789	15.24	15.14	N/A	24	N/A							
	5200	22.44	22.61	17.687	17.744	15.23	15.15										
	5240	22.97	23.03	17.723	17.662	15.25	15.16										
U-NII Band 2A	5260	22.92	22.00	17.737	17.705	15.01	15.05			N/A	24	24.42					
	5300	22.96	23.11	17.753	17.729	15.06	15.15					24.61					
	5320	23.78	24.43	17.714	17.770	15.03	15.07					24.76					
U-NII Band 2C	5500	22.70	23.27	17.721	17.754	15.30	15.10					N/A	24	24.56			
	5580	23.25	23.53	17.743	17.710	15.44	15.37							24.66			
	5700	22.59	23.58	17.717	17.742	15.29	15.12							24.54			
	5720	23.02	22.98	17.673	17.754	15.21	15.13							24.61			
Mode 802.11n-HT20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)								Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main										
		Aux	Main	Aux	Main												
U-NII Band 3	5745	13.44	11.93	17.707	17.741	15.33	15.26	N/A	30					N/A			
	5785	14.36	15.09	17.716	17.764	15.35	15.27										
	5825	12.30	13.21	17.728	17.683	15.21	15.17										

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11n-HT40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm+1 0 log B) <sup>Note 3</sup>		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 1	5190	42.73	40.96	36.059	36.086	15.34	15.41	N/A	24	N/A			
	5230	42.33	40.58	36.082	35.996	15.35	15.42				18.40		
U-NII Band 2A	5270	42.23	40.80	36.032	36.020	15.32	15.37			18.36	27.11		
	5310	43.07	40.25	36.034	36.015	15.31	15.35			18.34	27.05		
U-NII Band 2C	5510	42.03	39.86	35.922	35.919	15.62	15.22			18.43	27.01		
	5550	42.83	40.53	36.045	36.111	15.63	15.40			18.53	27.08		
	5670	42.57	39.49	36.061	36.019	15.60	15.25			18.44	26.96		
	5710	42.00	40.34	36.028	35.882	15.51	15.07			18.31	27.06		
Mode 802.11n-HT40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)				Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm+1 0 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 3	5755	28.32	35.17	36.009	36.056	15.51	15.01	N/A	30	N/A			
	5795	35.15	35.18	36.038	36.052	15.45	14.85				18.17		

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ac- VHT80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth							
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1	5210	85.25	82.69	75.199	75.070	13.47	13.54	N/A	24	N/A	
U-NII Band 2A	5290	82.32	82.24	75.231	75.152	14.55	14.56			30.15	
U-NII Band 2C	5530	82.73	81.42	75.079	75.123	13.98	14.13			30.11	
	5610	84.70	82.51	75.055	74.984	14.09	14.22			30.17	
	5690	82.51	82.04	75.070	75.007	13.87	14.09			30.14	
Mode 802.11ac- VHT80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
Emission (6dB) Bandwidth		Occupied (99%) Bandwidth									
Aux	Main	Aux	Main	Aux	Main						
U-NII Band 3	5775	73.79	73.97	74.982	74.933	14.07	14.12	N/A	17.11	30	N/A

Mode 802.11ac- VHT160	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11d Bm+10 log B) <sup>Note 3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth							
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1/2A	5250	163.70	162.70	152.86	153.64	10.62	10.57	N/A	13.61	24	33.11
U-NII Band 2C	5570	162.40	162.40	153.56	152.70	13.02	13.15		16.10		33.11

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>				
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main								
		Aux	Main	Aux	Main										
U-NII Band 1	5180	22.27	22.86	18.947	18.870	15.36	15.30	N/A	24	N/A					
	5200	24.13	23.04	18.952	18.929	15.30	15.32								
	5240	23.81	23.72	18.905	18.944	15.38	15.29								
U-NII Band 2A	5260	23.97	23.80	18.916	18.902	15.16	15.24			N/A	24	24.77			
	5300	23.40	22.17	18.920	18.870	15.11	15.23					24.46			
	5320	22.17	23.33	18.897	18.929	15.15	15.22					24.46			
U-NII Band 2C	5500	23.64	23.90	18.886	18.865	15.39	15.22					N/A	24	24.74	
	5580	23.28	23.50	18.906	18.932	15.38	15.21							24.67	
	5700	23.86	23.78	18.919	18.928	15.37	15.19							24.76	
	5720	22.79	24.26	18.885	18.890	15.38	15.33							24.58	
Mode 802.11ax- HE20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>					Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main								
		Aux	Main	Aux	Main										
U-NII Band 3	5745	16.04	18.90	18.863	18.851	15.29	15.31	N/A	30	N/A					
	5785	15.56	18.51	18.872	18.942	15.32	15.29								
	5825	17.49	18.96	18.886	18.857	15.33	15.32								

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 1	5190	41.57	42.28	37.516	37.454	15.42	15.32	N/A	24	N/A			
	5230	41.63	41.01	37.570	37.421	15.39	15.37						
U-NII Band 2A	5270	40.93	41.25	37.594	37.505	15.31	15.33			N/A	24	27.12	
	5310	42.65	41.52	37.534	37.592	15.29	15.31					27.18	
U-NII Band 2C	5510	40.92	41.68	37.456	37.502	15.48	15.25					18.38	27.12
	5550	41.57	41.02	37.484	37.511	15.53	15.48					18.52	27.13
	5670	40.89	41.07	37.449	37.415	15.50	15.20			18.36	27.12		
	5710	41.35	40.95	37.507	37.503	15.49	15.05			18.29	27.12		
Mode 802.11ax- HE40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)				Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 3	5755	35.77	26.92	37.409	37.421	15.47	15.34	N/A	30	N/A			
	5795	36.01	32.62	37.551	37.553	15.50	15.33						

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dBm +10 log B) <sup>Note 3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Average Output Power (dBm)					
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1	5210	82.67	85.61	76.721	76.640	13.34	13.33	N/A	24	N/A	
U-NII Band 2A	5290	82.58	83.39	76.687	76.522	14.48	14.23			30.17	
U-NII Band 2C	5530	83.11	81.47	76.772	76.945	13.86	13.84			30.11	
	5610	81.42	81.63	76.622	76.533	13.99	14.08			30.11	
	5690	82.60	83.42	76.412	76.542	13.92	14.23			30.17	
Mode 802.11ax- HE80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)				Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>
Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Average Output Power (dBm)							
Aux	Main	Aux	Main	Aux	Main						
U-NII Band 3	5775	69.07	69.99	76.527	76.519	14.00	13.92	N/A	30	N/A	

Mode 802.11ax- HE160	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11dB m+10 log B) <sup>Note 3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Average Output Power (dBm)					
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1/2A	5250	162.90	162.80	154.61	154.57	10.38	10.40	0.092	24	33.12	
U-NII Band 2C	5570	162.70	162.10	154.57	154.24	12.77	12.86			33.10	

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE20	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11 dB m+10 log B) <sup>Note 3</sup>
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5180	26/0	22.27	22.86	18.947	18.870	9.60	9.56	0.259	12.85	24	N/A
		52/37	22.27	22.86	18.947	18.870	13.41	13.34	N/A	16.39		
		106/53	22.27	22.86	18.947	18.870	15.39	15.20	N/A	18.31		
U-NII Band 2A	5320	26/8	22.17	23.33	18.897	18.929	9.54	9.55	0.259	12.81	24	24.46
		52/40	22.17	23.33	18.897	18.929	13.28	13.18	N/A	16.24		
		106/54	22.17	23.33	18.897	18.929	15.33	15.30	N/A	18.33		
U-NII Band 2C	5500	26/0	23.64	23.90	18.886	18.865	9.67	9.47	0.259	12.84	24	24.74
		52/37	23.64	23.90	18.886	18.865	13.40	13.14	N/A	16.28		
		106/53	23.64	23.90	18.886	18.865	15.45	15.17	N/A	18.32		
	5700	26/8	23.86	23.78	18.919	18.928	9.72	9.30	0.259	12.78		
		52/40	23.86	23.78	18.919	18.928	13.46	12.98	N/A	16.24		
		106/54	23.86	23.78	18.919	18.928	15.54	15.06	N/A	18.32		
U-NII Band 3	5745	26/0	16.04	18.90	18.863	18.851	15.42	14.98	0.259	18.47	30	N/A
		52/37	16.04	18.90	18.863	18.851	13.45	13.03	N/A	16.26		
		106/53	16.04	18.90	18.863	18.851	15.49	15.02	N/A	18.27		
5825	26/8	17.49	18.96	18.886	18.857	15.45	14.87	0.259	18.44			
	52/40	17.49	18.96	18.886	18.857	13.45	13.02	N/A	16.25			
	106/54	17.49	18.96	18.886	18.857	15.43	14.88	N/A	18.17			

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.



Mode 802.11ax- HE40	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11d Bm+10 log B) <sup>Note 3</sup>
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5190	242/61	41.57	42.28	37.516	37.454	15.35	15.27	0.182	24	N/A	
U-NII Band 2A	5310	242/62	42.65	41.52	37.534	37.592	15.20	15.07				
U-NII Band 2C	5510	242/61	40.92	41.68	37.456	37.502	15.61	15.27				
	5670	242/62	40.89	41.07	37.449	37.415	15.62	15.16				
Mode 802.11ax- HE40	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11d Bm+10 log B) <sup>Note 3</sup>
Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
Aux	Main	Aux	Main									
U-NII Band 3	5755	242/61	35.77	26.92	37.409	37.421	15.48	15.00	0.182	30	N/A	
	5795	242/62	36.01	32.62	37.551	37.553	15.47	15.03				

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

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE80	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11d Bm+10 log B) <sup>Note 3</sup>
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5210	484/65	82.67	85.61	76.721	76.640	14.55	14.40	N/A	24	N/A	
U-NII Band 2A	5290	484/66	82.58	83.39	76.687	76.522	12.20	12.13			30.17	
U-NII Band 2C	5530	484/65	83.11	81.47	76.772	76.945	15.62	15.20			30.11	
	5610	484/66	81.42	81.63	76.622	76.533	15.63	15.14			30.11	
Mode 802.11ax- HE80	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11d Bm+10 log B) <sup>Note 3</sup>
			Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 3	5775	484/65	69.07	69.99	76.527	76.519	15.51	15.01	N/A	30	N/A	
		484/66	69.07	69.99	76.527	76.519	15.46	14.95			18.22	

Mode 802.11ax- HE160	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) <sup>Note 2</sup>	Limit (dBm)	Limit(11d Bm+10 log B) <sup>Note 3</sup>
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	996/97	162.90	162.80	154.61	154.57	13.14	12.99	0.132	24	33.12	
		996/S67	162.90	162.80	154.61	154.57	11.76	11.52			33.12	
U-NII Band 2C	5570	996/97	162.70	162.10	154.57	154.24	12.91	12.65			33.10	
		996/S67	162.70	162.10	154.57	154.24	13.89	13.87			17.02	33.10

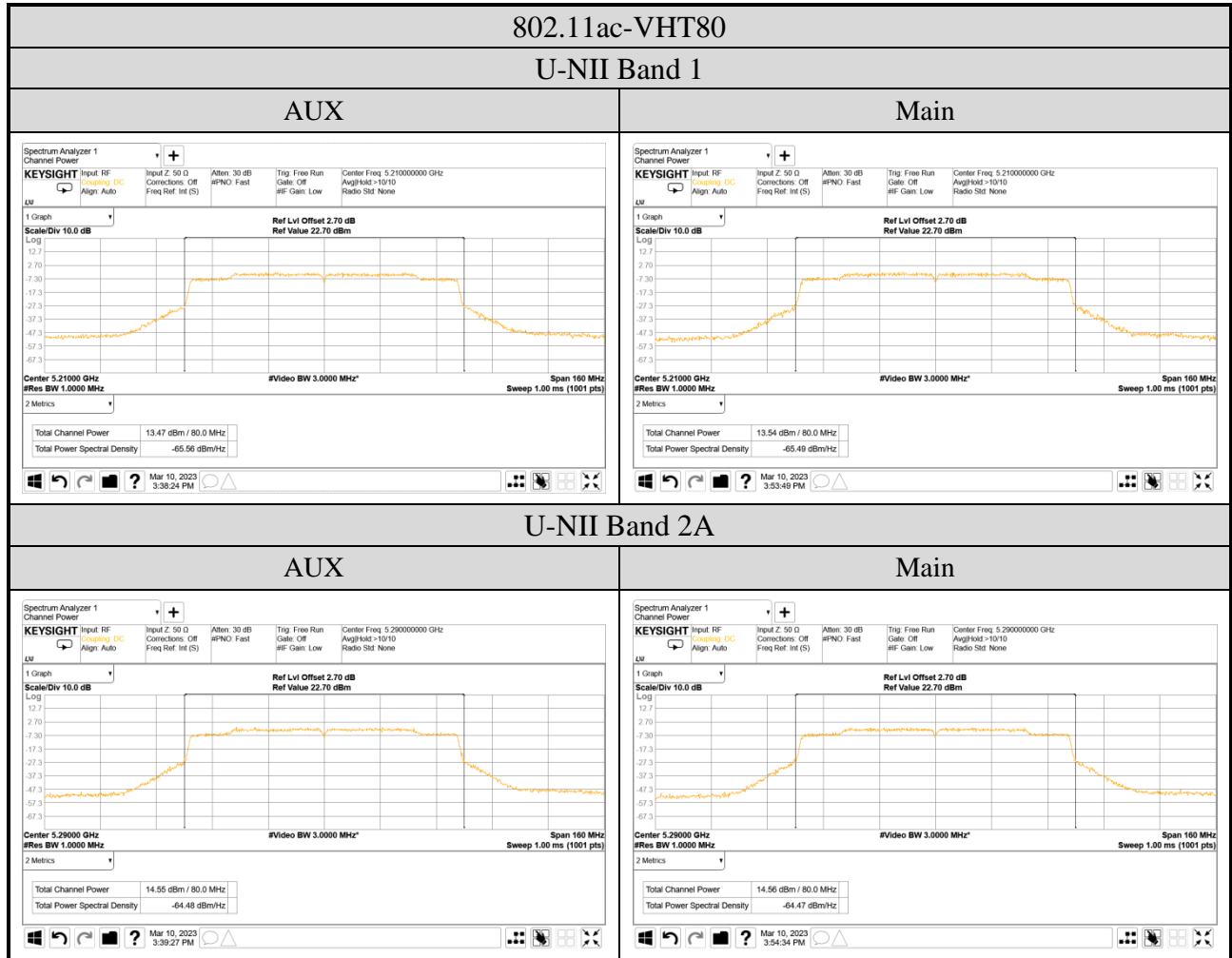
Note: 1. The results have been included cable loss.

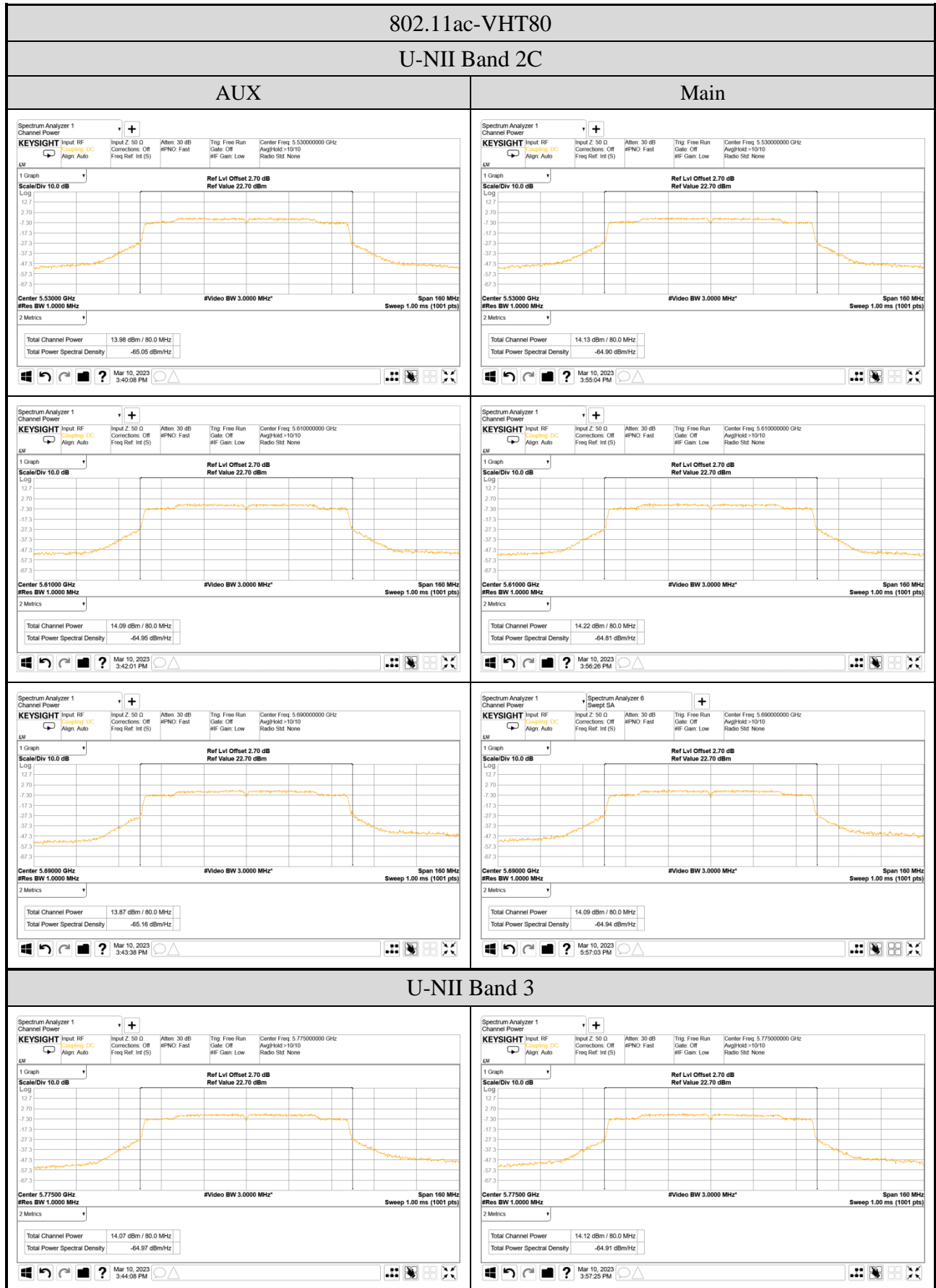
2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

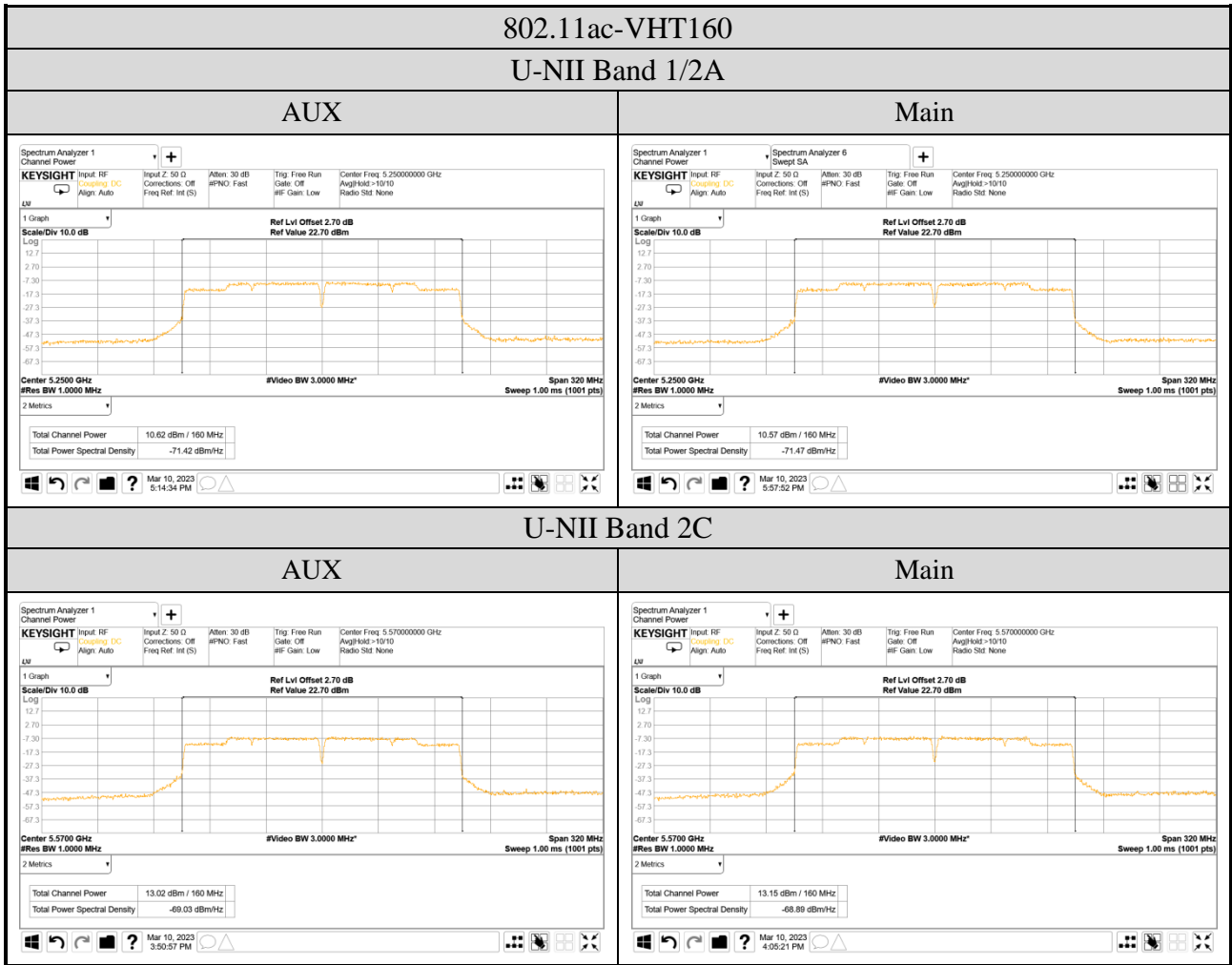
3. B is the 26 dB emission bandwidth.

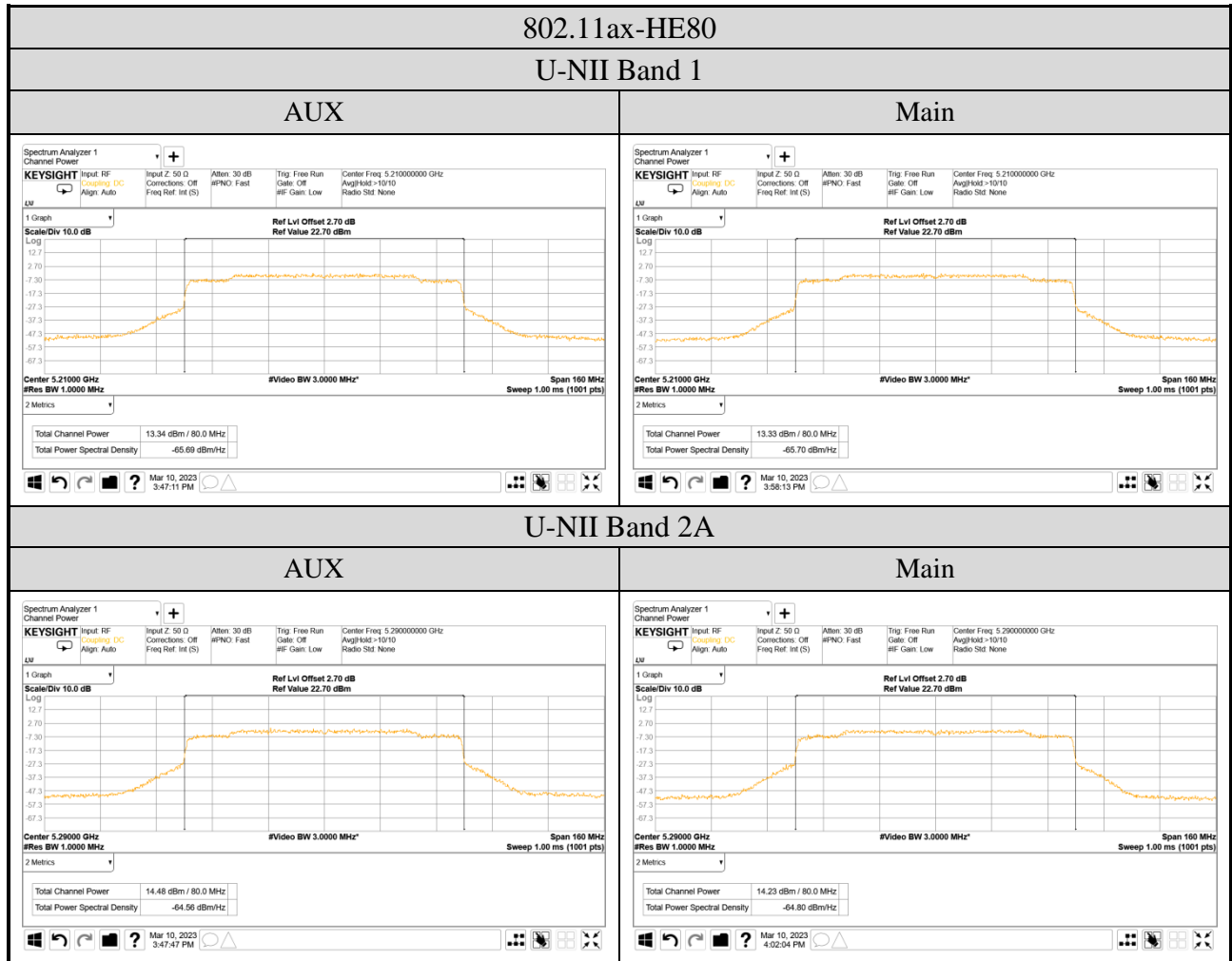
A.3.2 Measurement Plots

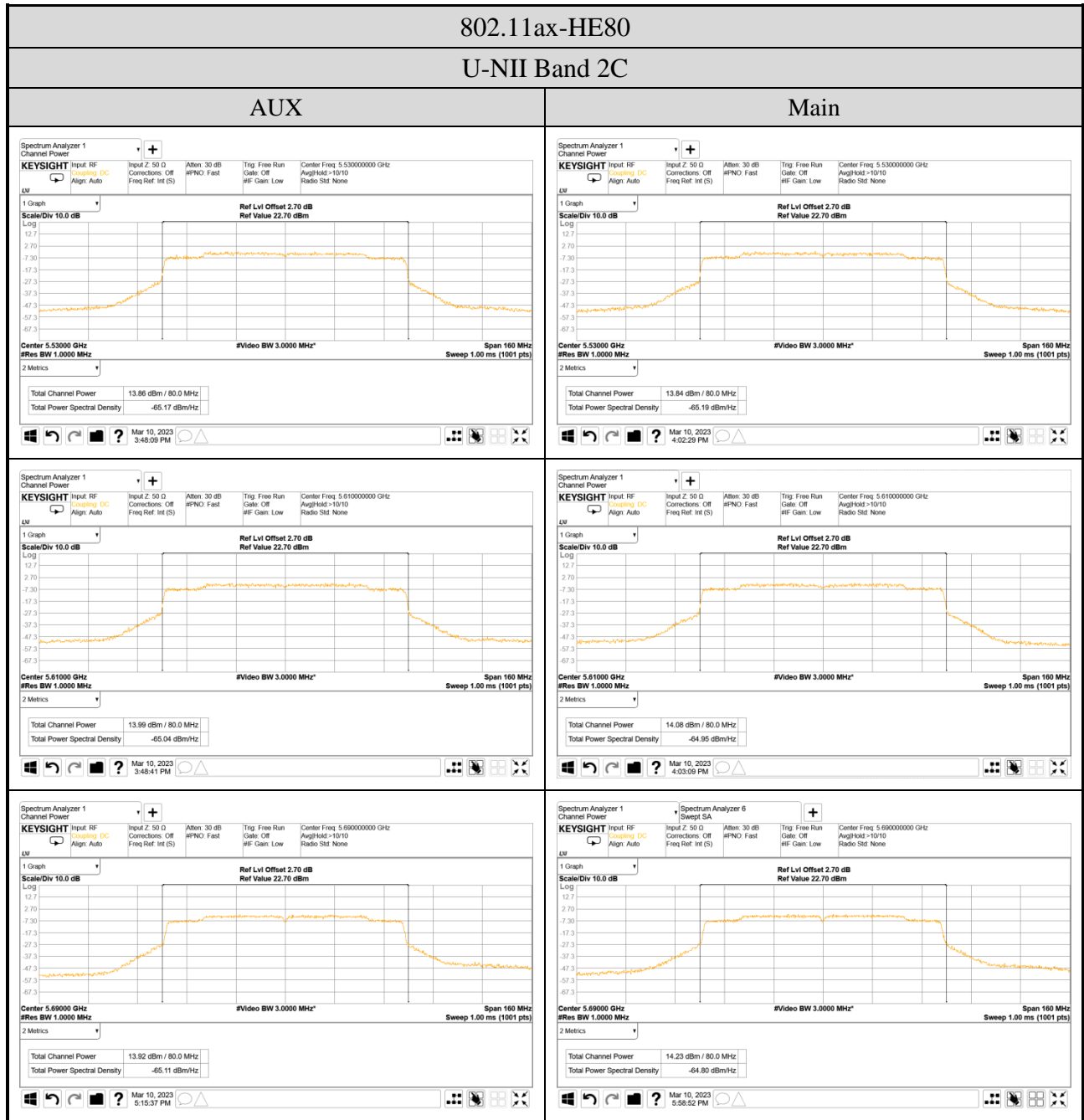
- Maximum Output Power

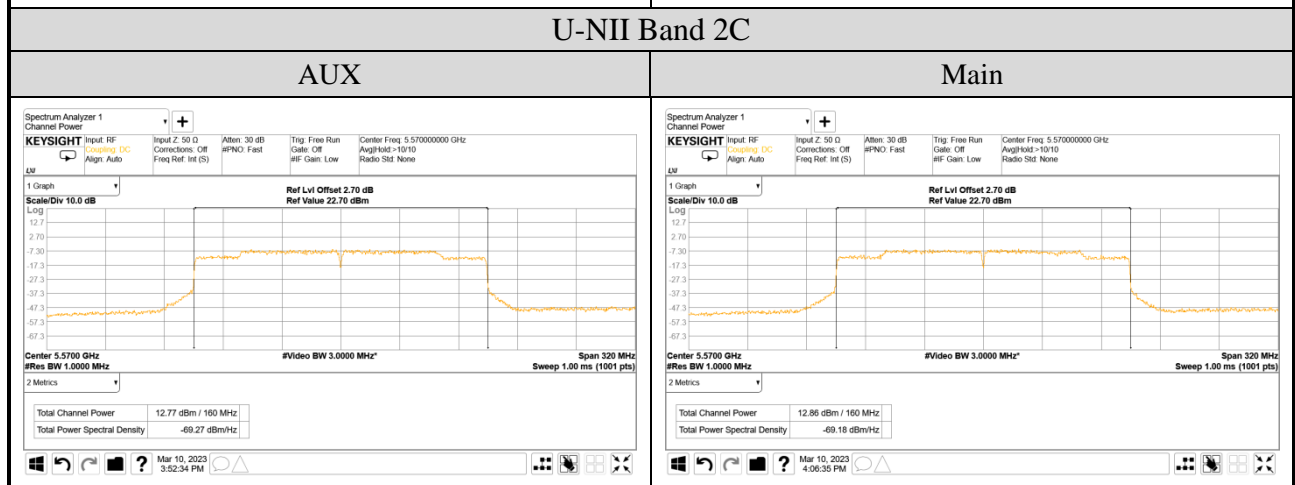
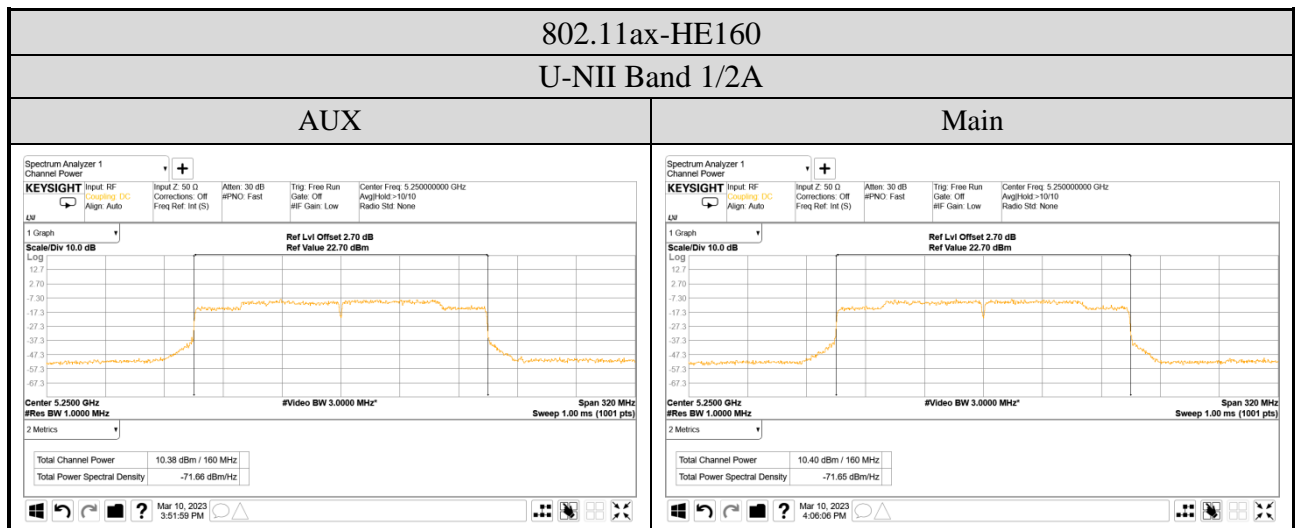
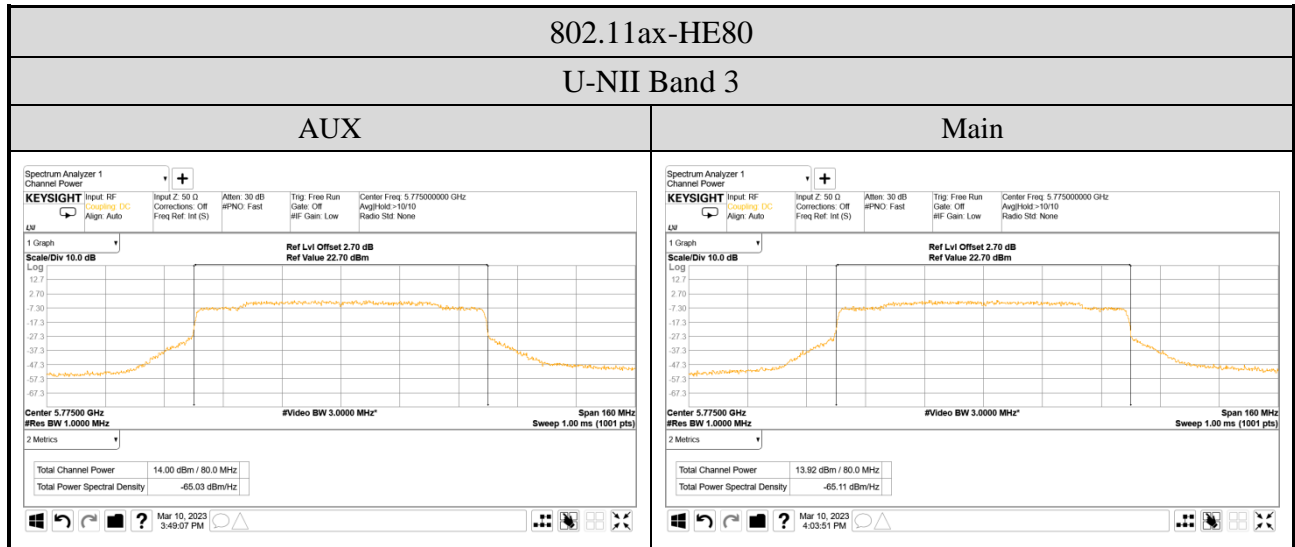




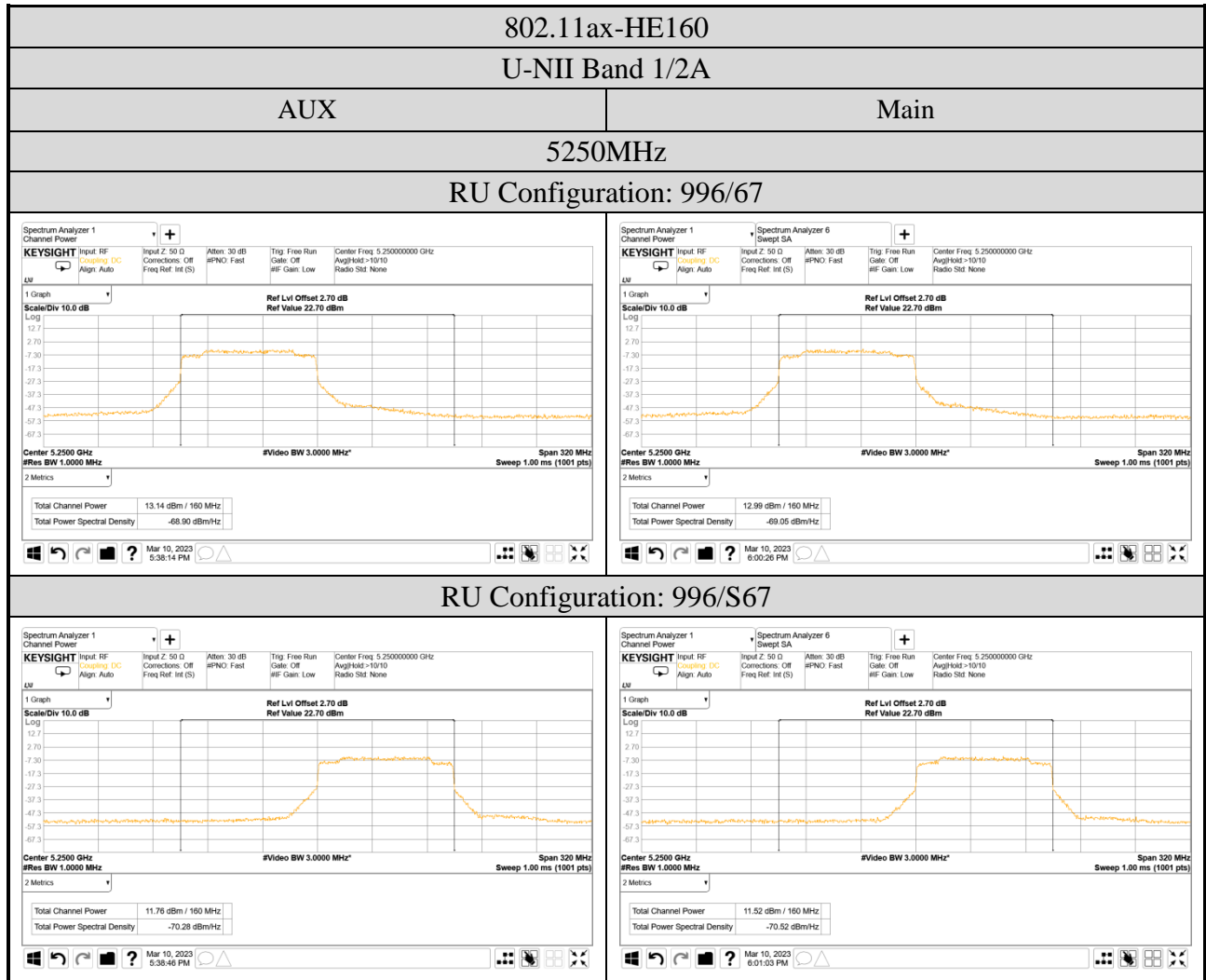


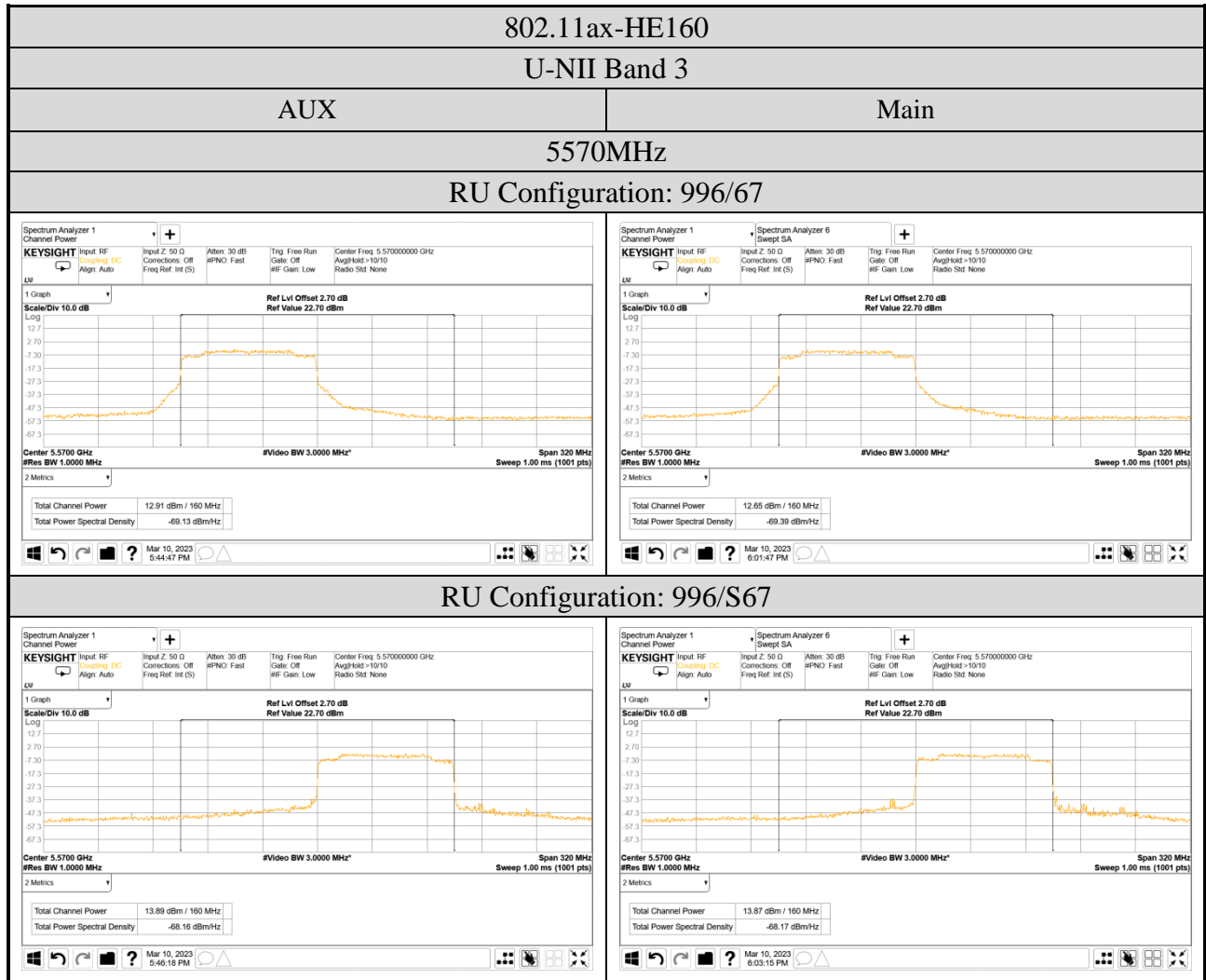












● Emission (26dB) Bandwidth (U-NII Band 1~2C)

