

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

### BANDWIDTH

Test Date	2023/01/16 ~ 02/02	Temp./Hum.	16 ~ 19°C/62 ~ 67%
Cable Loss	1.0dB	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	Aux	Main				
U-NII Band 1	5180	23.17	23.32	16.777	16.610	19.30	19.17	19.30	24	N/A	
	5200	22.21	22.58	16.626	16.617	20.14	19.70	20.14			
	5240	23.23	22.53	16.650	16.607	20.09	20.10	20.10			
U-NII Band 2A	5260	22.65	22.80	16.562	16.491	20.06	20.14	20.14	24	24.55	
	5300	22.85	23.12	16.589	16.695	20.13	20.15	20.15		24.59	
	5320	23.38	23.00	16.554	16.646	19.55	19.30	19.55		24.62	
U-NII Band 2C	5500	23.96	23.25	16.736	16.670	19.69	19.40	19.69	24	24.66	
	5580	21.77	22.85	16.646	16.724	20.35	20.12	20.35		24.38	
	5700	23.03	22.24	16.658	16.504	19.68	19.47	19.68		24.47	
	5720	23.64	23.46	16.745	16.608	20.10	19.93	20.10		24.70	
U-NII Band 3	5745	16.04	15.34	16.562	16.668	20.09	19.96	20.09	30	N/A	
	5785	16.23	16.35	16.586	16.553	20.15	20.04	20.15			
	5825	15.66	16.35	16.515	16.547	20.07	20.05	20.07			

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(11 dBm +10 log B) <sup>Note 3</sup>		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 1	5180	22.76	23.41	17.766	17.680	17.24	16.88	N/A	24	N/A			
	5200	23.25	23.13	17.775	17.733	18.15	17.83						
	5240	23.15	22.49	17.735	17.697	18.11	17.92						
U-NII Band 2A	5260	23.61	23.39	17.749	17.709	18.08	17.90						
	5300	22.50	22.61	17.755	17.736	18.13	17.87						
	5320	23.24	22.68	17.789	17.680	17.40	17.23						
U-NII Band 2C	5500	23.23	22.78	17.794	17.739	18.19	17.88						
	5580	23.61	23.36	17.776	17.780	18.26	17.88						
	5700	23.60	23.46	17.823	17.731	17.58	17.22						
	5720	23.31	22.63	17.734	17.729	18.50	18.41						
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(11 dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 3	5745	17.58	16.98	17.778	17.721	20.02	19.66	N/A	30	N/A			
	5785	17.59	10.46	17.635	17.722	20.11	19.69						
	5825	17.64	16.58	17.654	17.641	20.02	19.74						

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 +10 log B) <sup>Note 3</sup>			
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main									
U-NII Band 1	5190	41.75	41.78	36.012	36.026	15.92	15.50	N/A	24	N/A				
	5230	42.68	41.36	36.089	36.022	20.23	20.14							
U-NII Band 2A	5270	43.62	41.41	36.170	35.996	20.26	20.06							
	5310	40.91	41.93	36.077	36.066	15.79	15.43							
U-NII Band 2C	5510	40.54	41.24	36.041	35.974	17.72	17.28							
	5550	41.65	42.27	35.938	35.996	20.29	19.96							
	5670	41.09	41.57	35.960	36.016	19.37	18.85							
	5710	41.59	41.86	36.077	35.943	18.13	17.64							
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 +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main									
U-NII Band 3	5755	34.82	35.99	36.120	35.965	20.09	19.83	N/A	30	N/A				
	5795	35.32	28.47	36.122	36.025	20.12	19.89							

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	83.94	83.30	75.058	75.111	13.38	13.10	N/A	24	N/A	
U-NII Band 2A	5290	82.19	81.58	74.986	75.227	14.10	12.97			30.12	
U-NII Band 2C	5530	83.83	82.64	75.073	75.062	14.13	12.64			30.17	
	5610	84.93	88.21	75.281	75.396	20.21	19.80			30.29	
	5690	91.61	91.96	75.305	75.241	19.48	19.81			30.62	
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	50.53	73.53	75.116	75.184	18.20	18.17	N/A	21.20	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	161.00	162.40	152.880	153.360	11.21	11.07	N/A	14.15	24	33.07
U-NII Band 2C	5570	162.10	161.50	153.090	153.640	14.41	14.29		17.36		33.08

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>Note2</sup>	Limit (dBm)	Limit(11 dBm +10 log B) <sup>Note3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5180	22.69	23.65	18.946	18.898	17.36	17.04	N/A	24	N/A	
	5200	22.22	22.31	18.911	18.864	18.23	17.92				
	5240	22.92	23.66	18.879	18.910	18.17	18.02				
U-NII Band 2A	5260	22.38	22.94	18.860	18.931	18.13	18.05				
	5300	22.49	22.88	18.862	18.861	18.23	17.91				
	5320	22.74	22.30	18.853	18.903	17.64	17.33				
U-NII Band 2C	5500	22.70	22.98	18.843	18.907	18.27	18.05				
	5580	22.21	23.89	18.940	18.877	18.28	18.02				
	5700	22.96	22.94	18.913	18.887	17.72	17.31				
	5720	22.27	23.38	18.930	18.882	18.65	18.56				
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>Note2</sup>	Limit (dBm)	Limit(11 dBm +10 log B) <sup>Note3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5745	18.79	10.88	18.833	18.885	20.12	19.63	N/A	30	N/A	
	5785	18.80	14.42	18.831	18.930	20.09	19.79				
	5825	17.99	18.54	18.908	18.877	20.07	19.91				

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(11 dBm +10 log B) <sup>Note 3</sup>			
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main									
U-NII Band 1	5190	42.47	40.65	37.468	37.436	15.61	15.20	N/A	24	N/A				
	5230	41.70	42.27	37.513	37.468	20.19	19.87							
U-NII Band 2A	5270	42.09	40.96	37.690	37.414	20.29	19.92							
	5310	41.50	42.09	37.547	37.509	15.54	15.18							
U-NII Band 2C	5510	41.82	41.06	37.460	37.426	17.35	17.10							
	5550	43.15	40.84	37.591	37.586	20.27	20.10							
	5670	41.42	41.95	37.496	37.410	19.08	18.63							
	5710	42.23	41.07	37.513	37.428	17.87	17.40							
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(11 dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main									
U-NII Band 3	5755	34.30	37.47	37.563	37.463	20.04	19.71	N/A	30	N/A				
	5795	35.01	35.87	37.538	37.465	20.08	19.75							

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(11 dBm +10 log B) <sup>Note 3</sup>
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	82.38	82.92	76.722	76.790	13.08	12.75	N/A	24	N/A	
U-NII Band 2A	5290	80.68	83.02	76.461	76.736	13.83	12.78			30.07	
U-NII Band 2C	5530	83.83	82.18	76.762	76.446	13.82	12.18			30.15	
	5610	84.19	83.23	76.815	76.797	19.84	19.18			30.20	
	5690	82.57	85.71	76.679	76.703	19.73	19.54	22.65	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>	Limit (dBm)	Limit(11 dBm +10 log B) <sup>Note 3</sup>
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	51.28	67.67	76.543	76.848	18.11	18.36	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(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 1/2A	5250	162.10	163.00	154.45	154.88	11.01	10.89	0.092	24	33.10	
U-NII Band 2C	5570	163.00	162.80	154.72	154.90	14.31	14.10			17.31	33.12

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 dBm+1 0 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	22.69	23.65	18.946	18.898	9.63	9.84	0.269	13.02	24	N/A
		52/37	22.69	23.65	18.946	18.898	13.37	13.26	0.132	16.46		
		106/53	22.69	23.65	18.946	18.898	15.92	15.72	N/A	18.83		
U-NII Band 2A	5320	26/8	22.74	22.30	18.853	18.903	9.64	9.72	0.269	12.96	24	24.48
		52/40	22.74	22.30	18.853	18.903	13.28	13.17	0.132	16.37		24.48
		106/54	22.74	22.30	18.853	18.903	15.73	15.71	N/A	18.73		24.48
U-NII Band 2C	5500	26/0	22.70	22.98	18.843	18.907	10.01	9.91	0.269	13.24	24	24.56
		52/37	22.70	22.98	18.843	18.907	13.46	13.41	0.132	16.58		24.56
		106/53	22.70	22.98	18.843	18.907	15.39	15.28	N/A	18.35		24.56
	5700	26/8	22.96	22.94	18.913	18.887	9.53	9.66	0.269	12.87		24.61
		52/40	22.96	22.94	18.913	18.887	13.26	13.20	0.132	16.37		24.61
		106/54	22.96	22.94	18.913	18.887	16.26	16.08	N/A	19.18		24.61
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 dBm+1 0 log B) <sup>Note 3</sup>
			Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 3	5745	26/0	18.79	10.88	18.833	18.885	15.95	15.60	0.269	19.06	30	N/A
		52/37	18.79	10.88	18.833	18.885	13.14	13.11	0.132	16.27		
		106/53	18.79	10.88	18.833	18.885	17.81	17.59	N/A	20.71		
	5825	26/8	17.99	18.54	18.908	18.877	16.05	15.47	0.173	19.05		
		52/40	17.99	18.54	18.908	18.877	13.48	13.11	0.119	16.44		
		106/54	17.99	18.54	18.908	18.877	17.60	17.06	N/A	20.35		

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(1 dBm+ 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	42.47	40.65	37.468	37.436	16.31	16.24	0.150	24	N/A	
U-NII Band 2A	5310	242/62	41.50	42.09	37.547	37.509	15.82	16.06				
U-NII Band 2C	5510	242/61	41.82	41.06	37.460	37.426	18.21	18.00				
	5670	242/62	41.42	41.95	37.496	37.410	18.31	17.90				
U-NII Band 3	5755	242/61	34.30	37.47	37.563	37.463	20.11	19.82	0.150	30	N/A	
	5795	242/62	35.01	35.87	37.538	37.465	20.14	19.86				

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

2. According to KDB 662911 D01 E1), 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(11 d 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	82.38	82.92	76.722	76.790	14.22	14.35	0.092	24	N/A	
U-NII Band 2A	5290	484/66	80.68	83.02	76.461	76.736	12.09	12.11				
U-NII Band 2C	5530	484/65	83.83	82.18	76.762	76.446	15.27	15.39				
	5610	484/66	84.19	83.23	76.815	76.797	19.62	19.17				
U-NII Band 3	5775	484/65	51.28	67.67	76.543	76.848	19.77	19.31	0.092	30	N/A	
		484/66	51.28	67.67	76.543	76.848	20.33	19.98				

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(11 d 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	162.10	163.00	154.45	154.88	13.47	13.09	0.191	24	33.10	
		996/S67	162.10	163.00	154.45	154.88	11.71	11.21				
U-NII Band 2C	5570	996/97	163.00	162.80	154.72	154.90	13.61	13.39				
		996/S67	163.00	162.80	154.72	154.90	16.54	16.24				

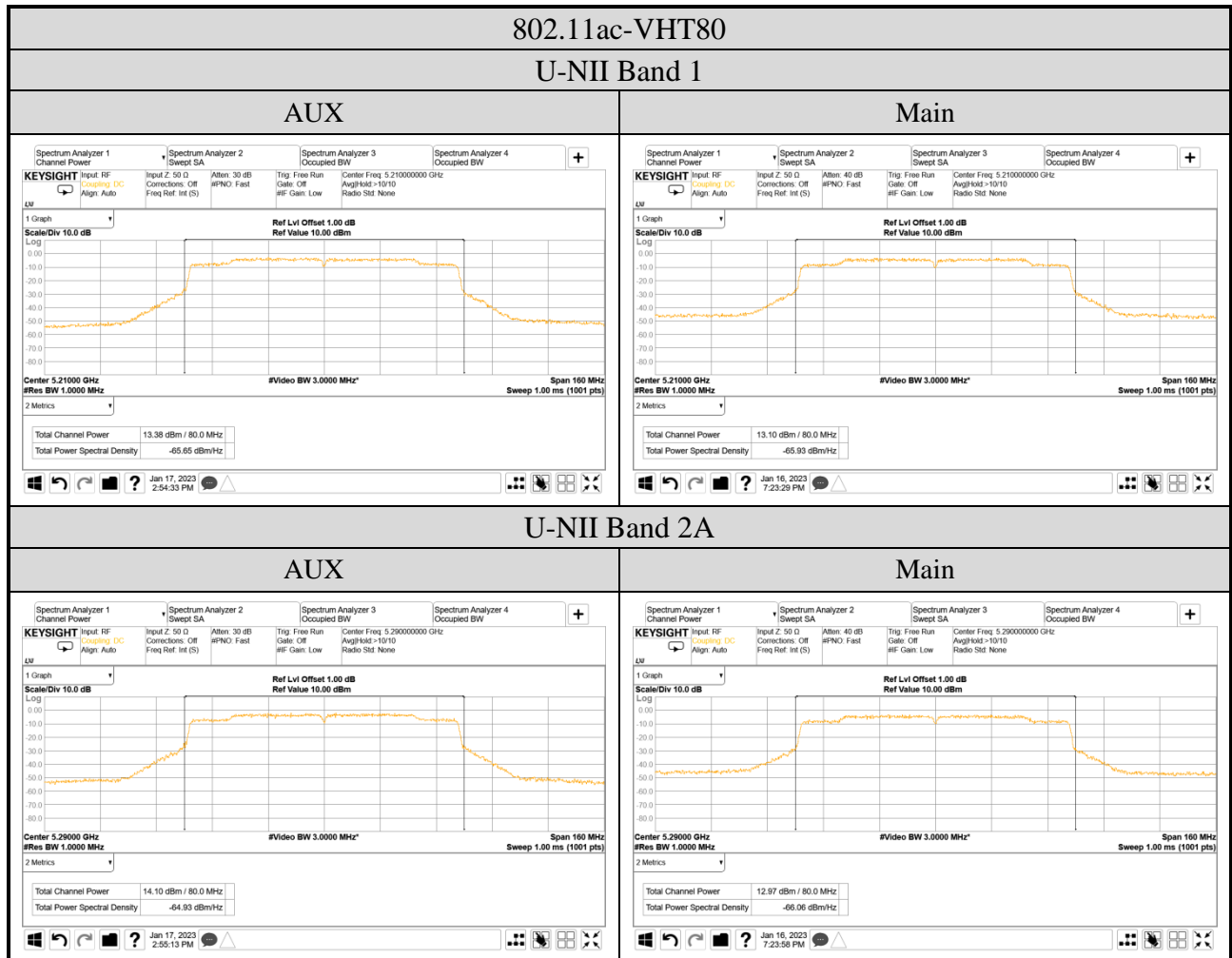
Note: 1. The results have been included cable loss.

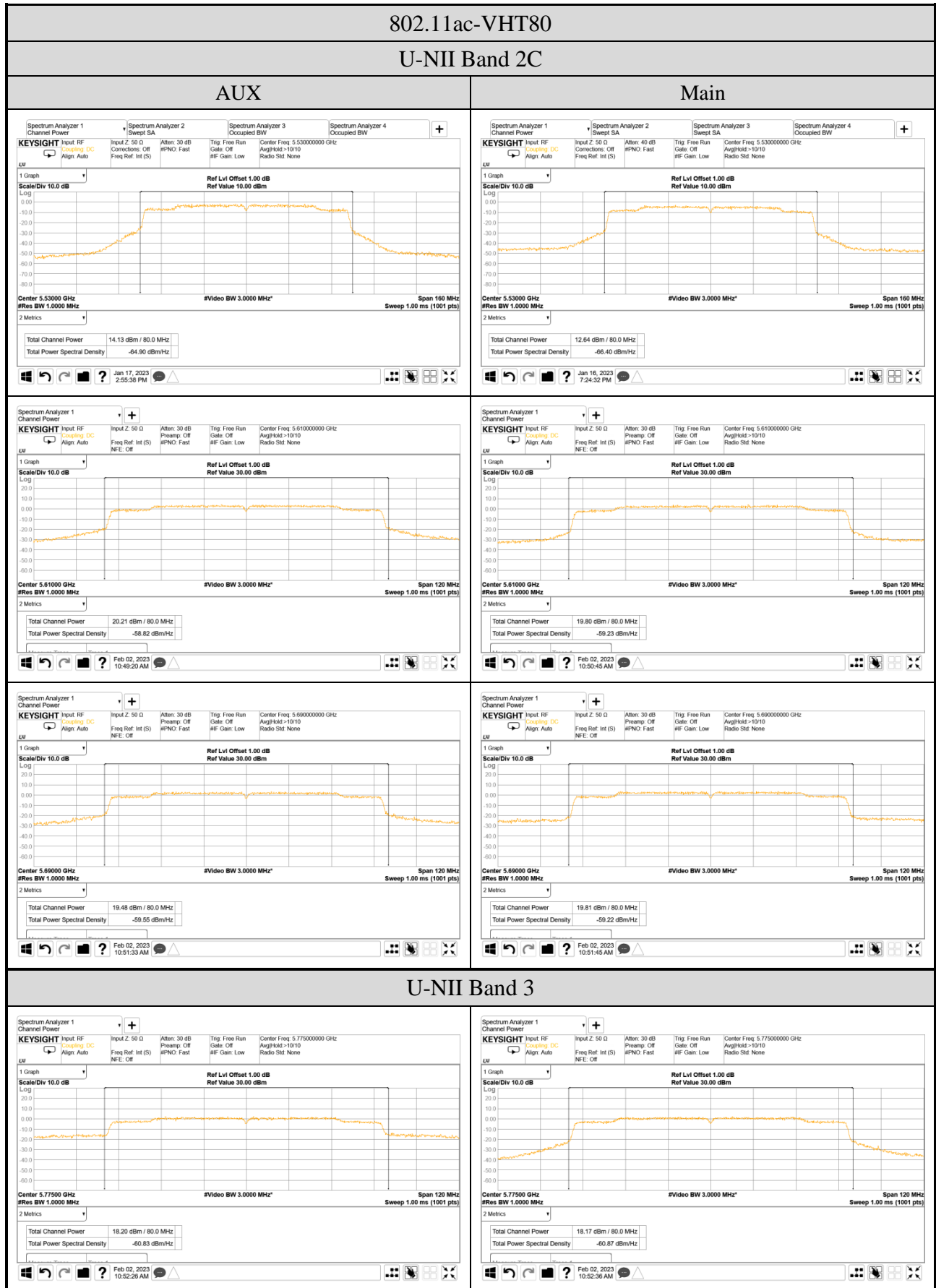
2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%, please refer to section 3.7.

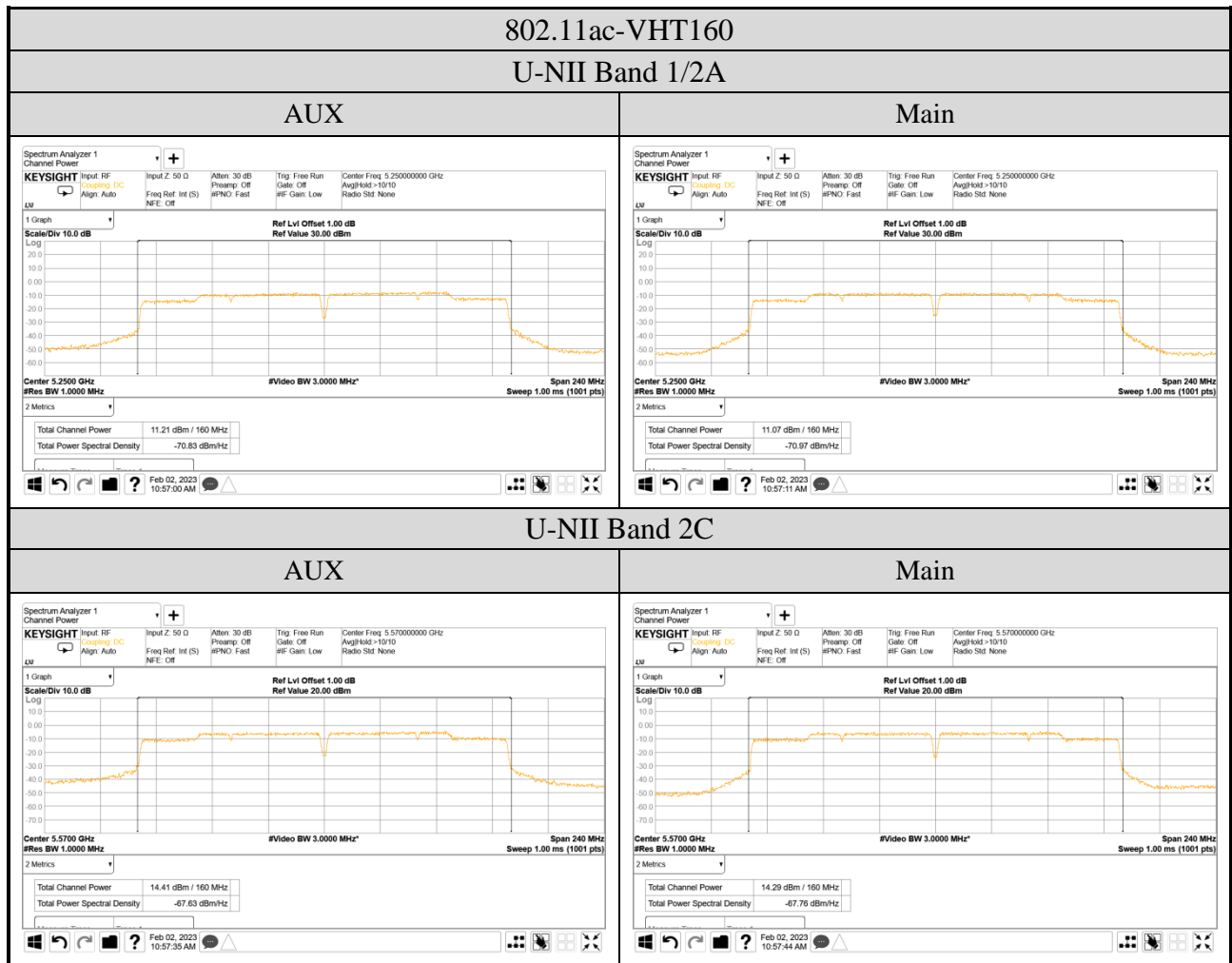
3. B is the 26 dB emission bandwidth.

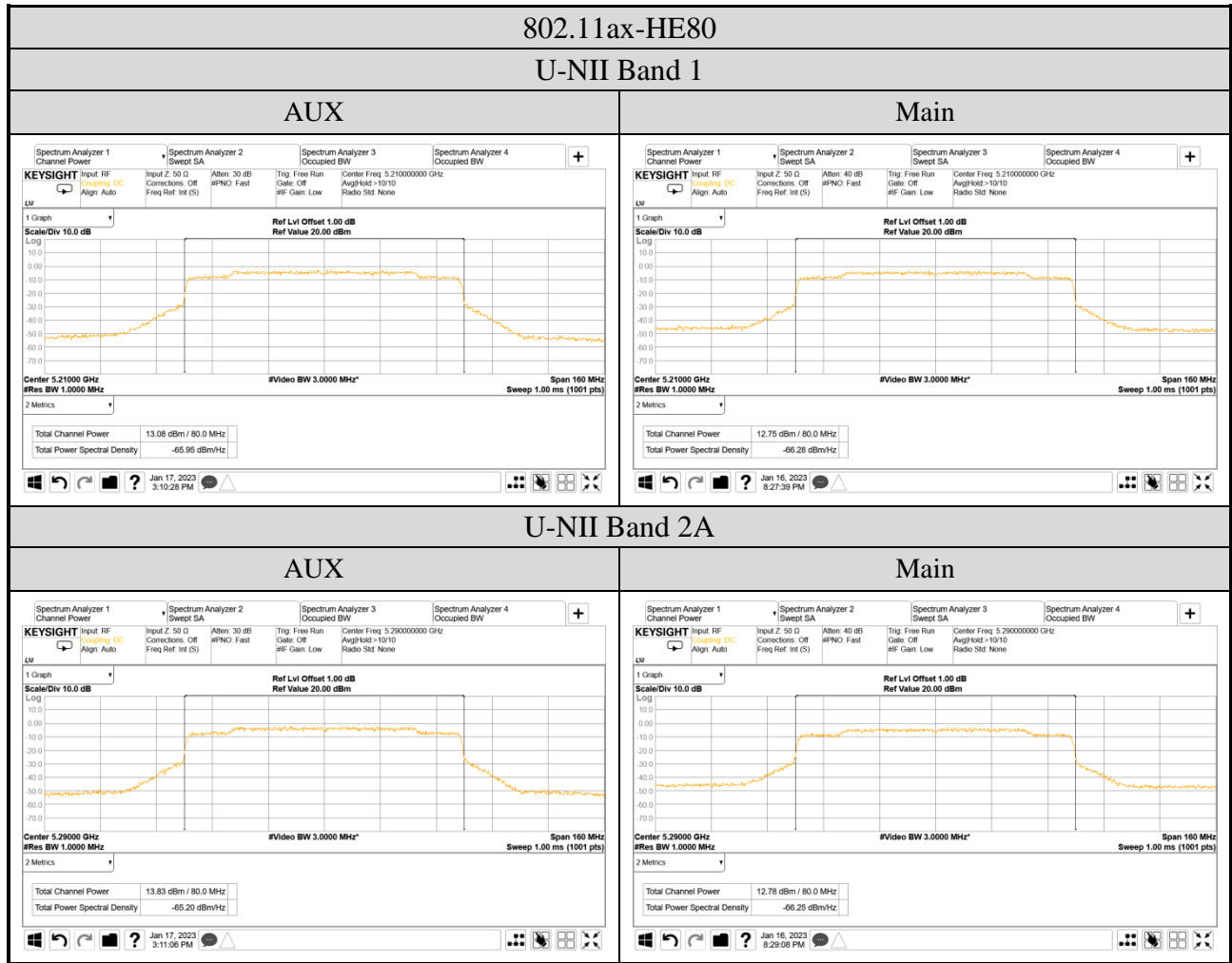
### A.3.2 Measurement Plots

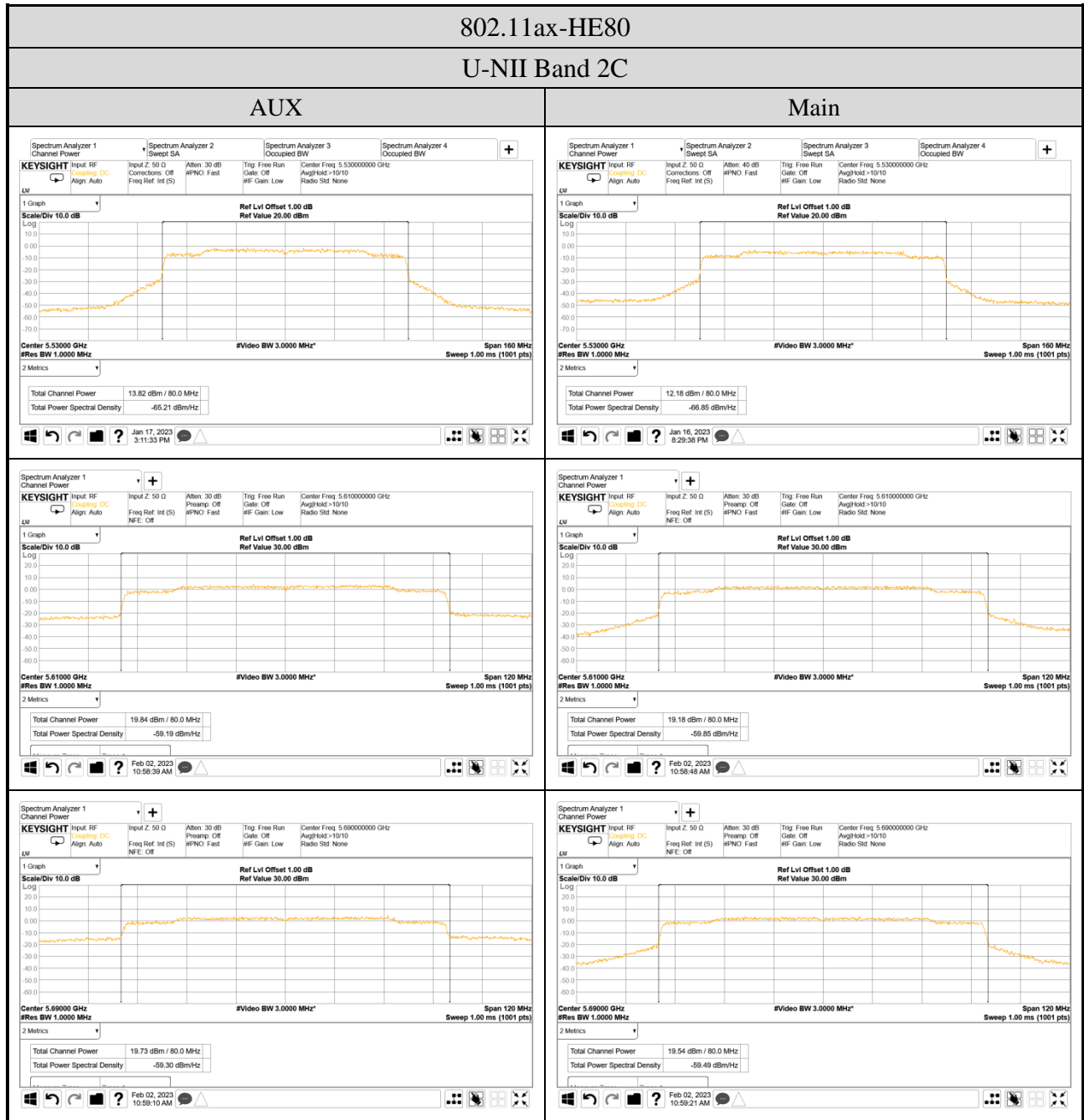
- Maximum Output Power

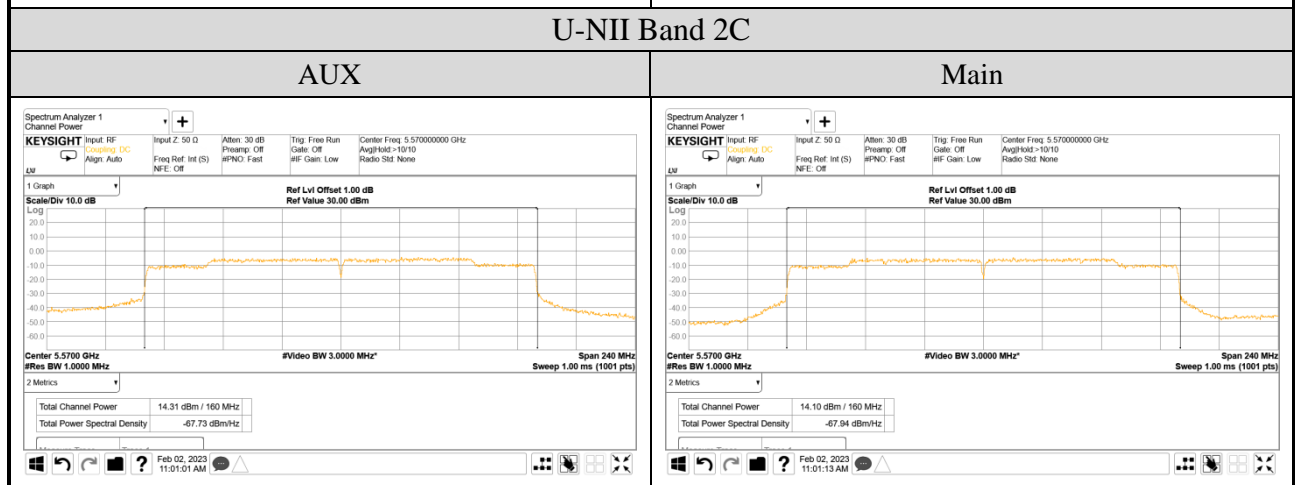
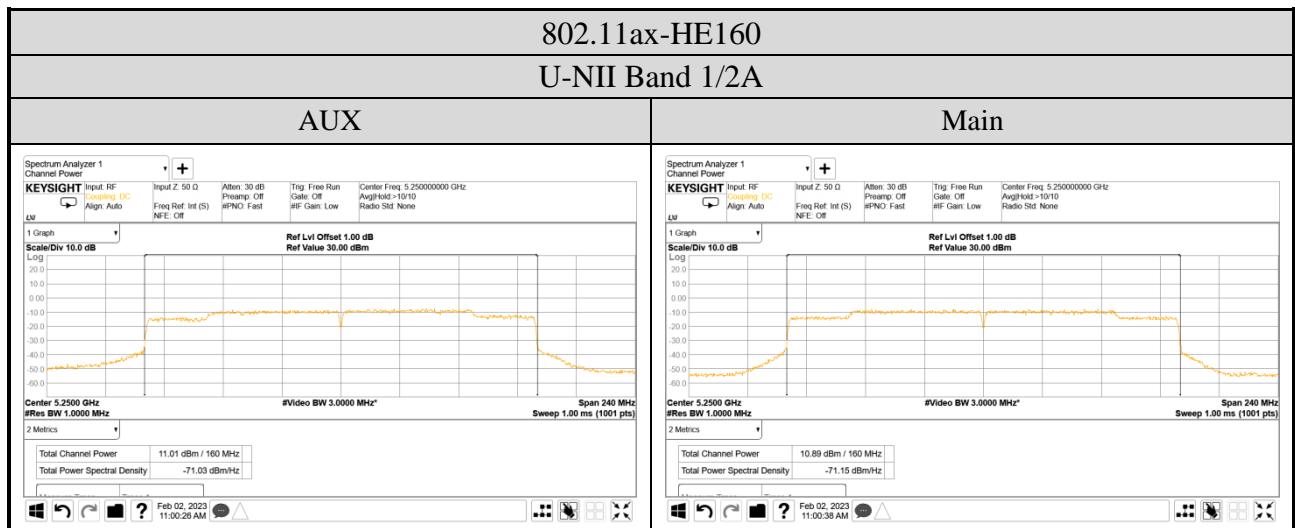
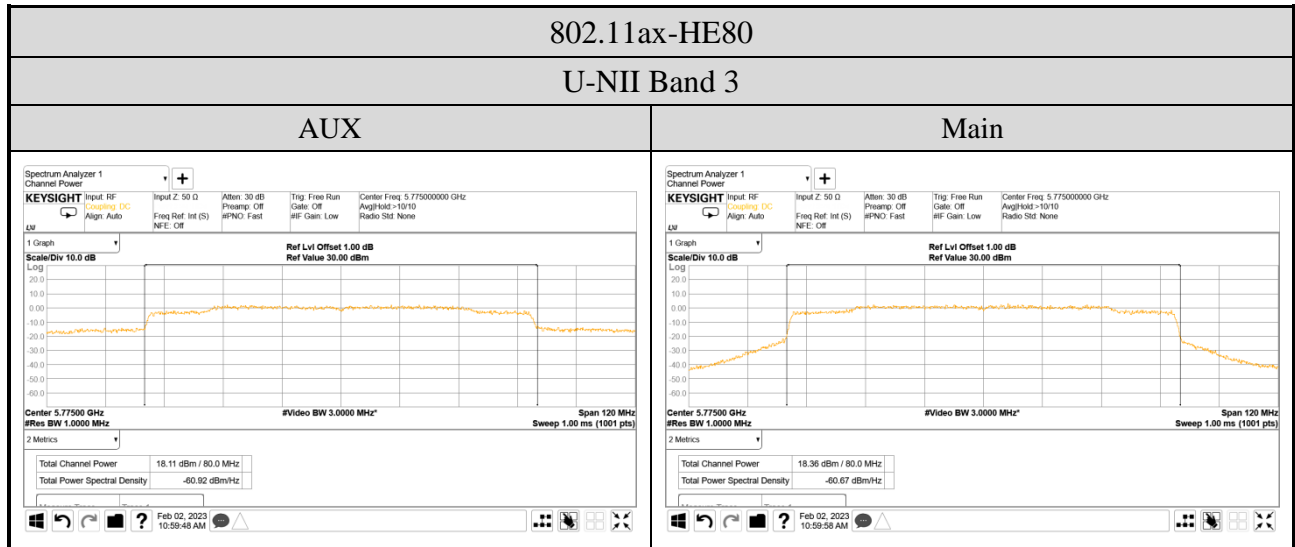




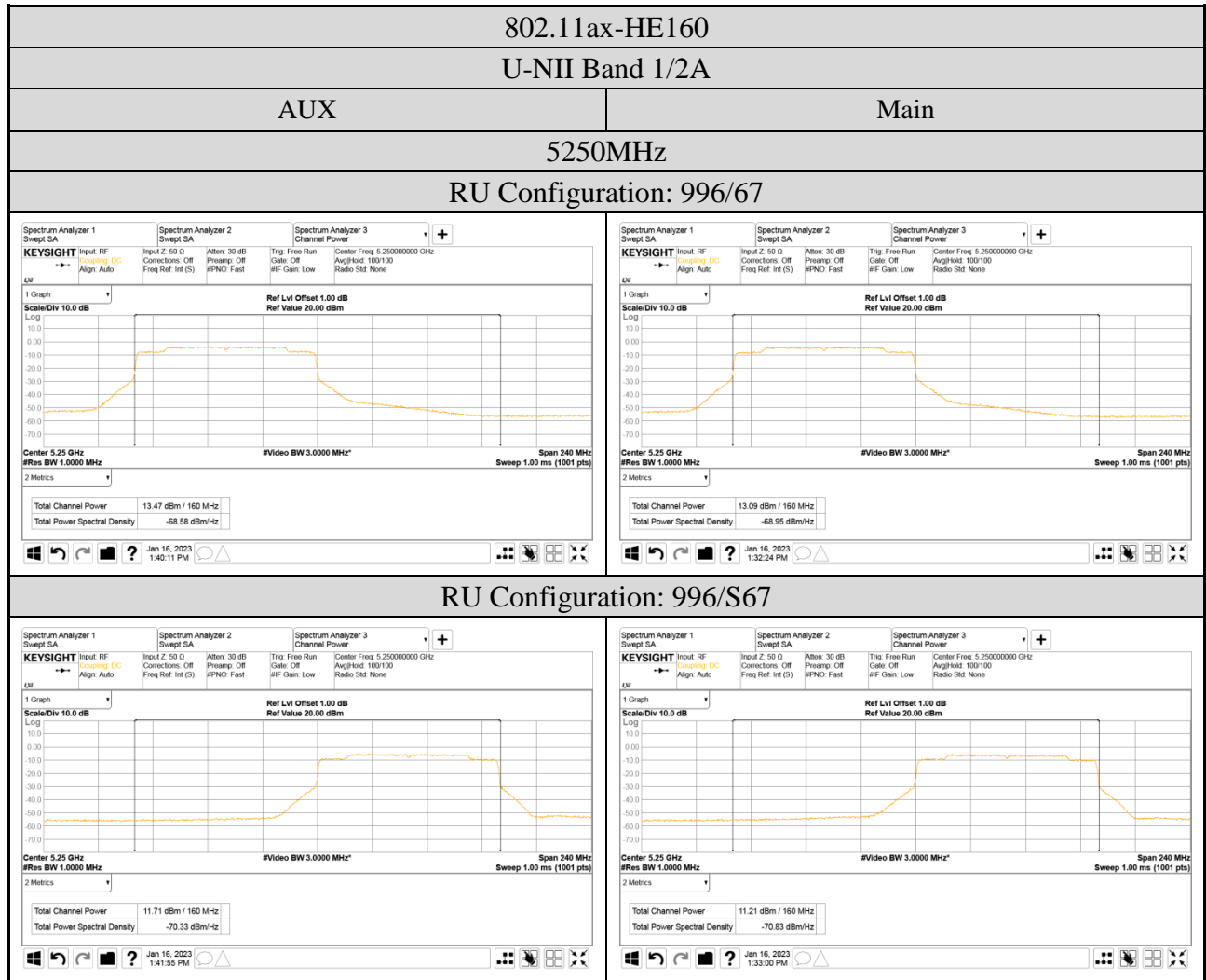


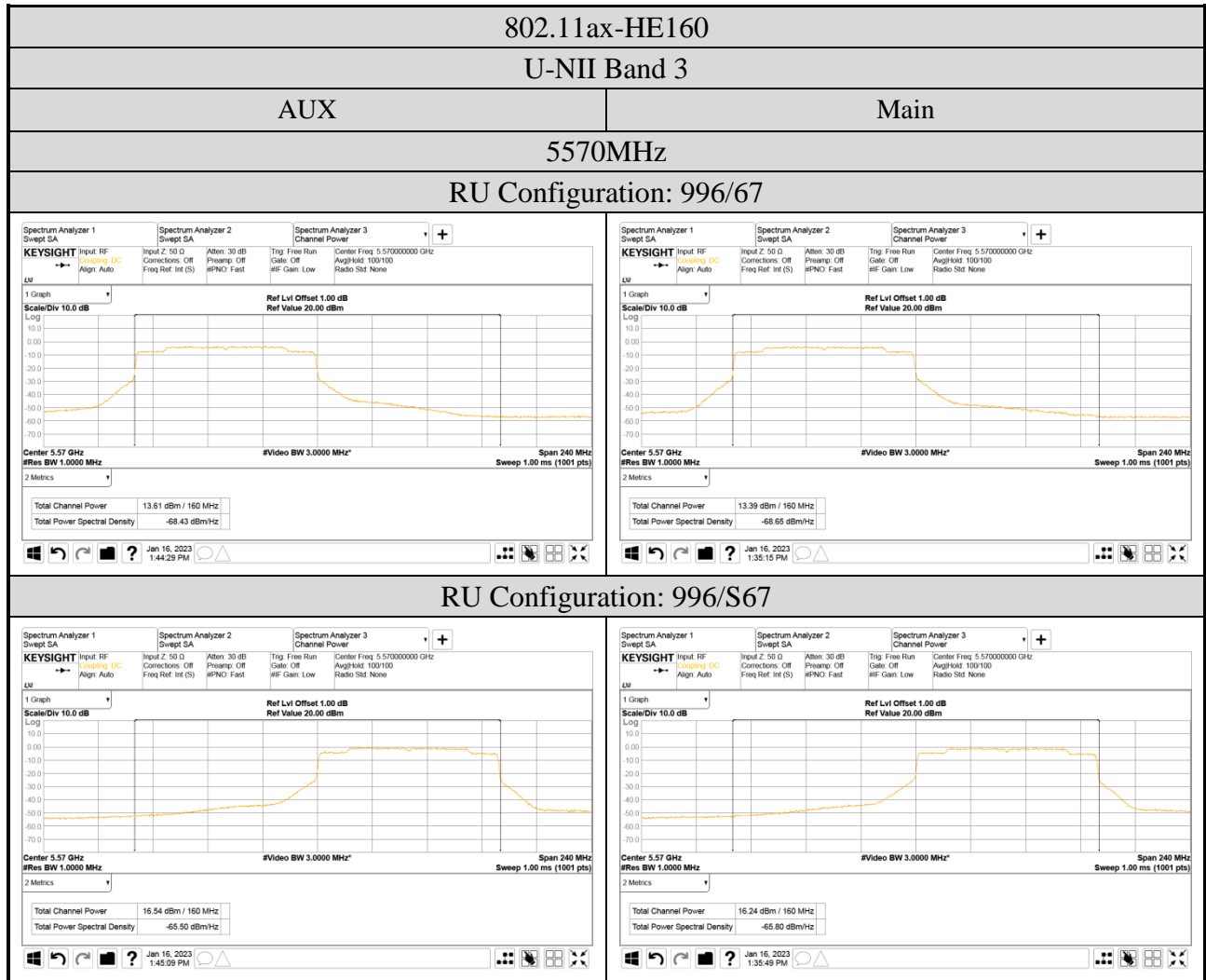












● Emission (26dB) Bandwidth (U-NII Band 1~2C)

