

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED

BANDWIDTH

Test Date	2022/10/17 ~ 27	Temp./Hum.	23-24°C/63-76%
Cable Loss	1.0dB	Tested By	Kuper Hsu
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) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 1	5180	22.77	23.85	16.663	16.687	16.77	17.05	N/A	24	N/A			
	5200	22.45	21.91	16.638	16.530	16.85	16.89						
	5240	22.35	21.81	16.581	16.584	16.72	16.71						
U-NII Band 2A	5260	22.32	22.99	16.559	16.677	16.73	16.74				16.740	24.49	
	5300	22.66	22.26	16.559	16.603	16.78	16.81				16.810	24.48	
	5320	23.27	23.09	16.604	16.606	16.79	16.89				16.890	24.63	
U-NII Band 2C	5500	22.78	22.21	16.527	16.526	16.78	17.09			17.090	24.47		
	5580	22.47	22.76	16.535	16.617	16.82	16.78			16.820	24.52		
	5700	22.70	22.93	16.565	16.570	16.68	16.62			16.680	24.56		
	5720	21.66	22.90	16.560	16.652	16.70	16.65			16.700	24.36		
Mode 802.11a	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)				Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 3	5745	14.39	12.92	16.589	16.525	16.72	16.82	N/A	30	N/A			
	5785	11.32	15.15	16.545	16.520	17.38	16.92						
	5825	16.29	16.38	16.661	16.868	16.89	16.85						

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%.

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) ^{Note2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note3}			
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main	Aux	Main							
U-NII Band 1	5180	22.45	23.49	17.729	17.696	16.66	16.65	N/A	24	N/A				
	5200	22.49	22.89	17.702	17.723	16.66	16.46							
	5240	22.95	22.90	17.726	17.731	16.56	16.22							
U-NII Band 2A	5260	24.04	2.06	17.714	17.741	16.51	16.31							
	5300	23.37	22.82	17.703	17.708	16.59	16.39							
	5320	22.22	22.05	17.700	17.701	17.11	16.98							
U-NII Band 2C	5500	23.18	22.22	17.692	17.683	16.67	16.74							
	5580	23.51	23.87	17.730	17.698	16.61	16.48							
	5700	23.27	22.98	17.764	17.702	17.05	16.85							
	5720	22.28	22.38	17.719	17.698	16.58	16.35							
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) ^{Note2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main	Aux	Main							
U-NII Band 3	5745	12.62	14.48	17.707	17.721	16.62	16.53	N/A	30	N/A				
	5785	16.09	15.68	17.719	17.703	16.75	16.57							
	5825	17.58	15.67	17.754	17.694	16.81	16.63							

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%.

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) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5190	41.25	39.92	36.031	35.999	15.32	15.23	N/A	24	N/A	
	5230	41.67	41.53	36.073	36.052	17.06	16.69				
U-NII Band 2A	5270	43.10	80.00	36.047	36.099	17.02	16.75				
	5310	43.42	41.75	36.054	36.041	15.17	15.03				
U-NII Band 2C	5510	41.57	41.78	35.974	36.044	17.16	17.29				
	5550	42.43	41.49	36.033	36.111	17.12	17.00				
	5670	41.53	42.10	36.018	35.994	16.94	16.60				
	5710	41.48	40.93	36.015	36.060	17.57	17.28				
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) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5755	28.60	32.53	36.070	36.065	17.06	16.89	N/A	30	N/A	
	5795	29.17	30.09	36.045	36.076	17.16	16.95				

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%.

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) ^{Note2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	82.58	82.86	75.128	75.171	13.92	13.88	N/A	24	N/A	
U-NII Band 2A	5290	83.63	82.03	75.002	75.115	14.34	14.39			30.14	
U-NII Band 2C	5530	84.74	82.19	74.995	75.054	15.00	15.16			30.15	
	5610	84.99	89.20	75.044	75.140	16.66	16.59			30.29	
	5690	86.63	89.74	75.150	75.204	16.45	16.46			30.38	
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) ^{Note2}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	55.32	61.28	75.013	75.133	17.34	17.34	N/A	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) ^{Note2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	161.90	161.70	153.600	153.120	11.02	10.71	N/A	24	33.09	
U-NII Band 2C	5570	163.00	162.10	153.270	153.010	14.16	14.33			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%.

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) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}						
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main										
		Aux	Main	Aux	Main												
U-NII Band 1	5180	23.77	22.41	18.900	18.895	16.80	16.73	N/A	24	N/A							
	5200	22.88	23.10	18.925	18.883	16.78	16.61										
	5240	22.77	22.71	18.833	18.891	16.71	16.51										
U-NII Band 2A	5260	23.43	22.60	18.916	18.896	16.59	16.37			N/A	24	24.54					
	5300	22.90	22.29	18.911	18.895	16.71	16.44					24.48					
	5320	24.26	23.27	18.865	18.919	17.13	17.04					24.67					
U-NII Band 2C	5500	22.79	23.00	18.878	18.884	16.71	16.82					N/A	24	24.58			
	5580	23.04	22.27	18.880	18.903	16.73	16.56							24.48			
	5700	23.77	21.76	18.914	18.815	17.09	16.95							24.38			
	5720	23.10	22.09	18.919	18.890	16.73	16.37							24.44			
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) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main										
		Aux	Main	Aux	Main												
U-NII Band 3	5745	15.08	15.15	18.922	18.930	16.68	16.57	N/A	30					N/A			
	5785	12.59	13.91	18.875	18.891	16.81	16.62										
	5825	17.82	14.59	18.849	18.918	16.85	16.68										

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%.

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) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}			
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main									
U-NII Band 1	5190	42.56	43.16	37.515	37.622	15.08	14.87	N/A	24	N/A				
	5230	41.58	41.23	37.643	37.540	16.82	16.46							
U-NII Band 2A	5270	40.92	41.65	37.578	37.460	16.80	16.51				27.12			
	5310	42.66	42.01	37.528	37.523	14.90	14.62				27.23			
U-NII Band 2C	5510	41.41	41.51	37.482	37.469	16.94	17.00				27.17			
	5550	41.28	40.36	37.549	37.478	16.92	16.67				27.06			
	5670	41.91	42.01	37.421	37.565	16.59	16.32				27.22			
	5710	42.42	40.85	37.515	37.535	17.14	16.91				27.11			
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) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main							
		Aux	Main	Aux	Main									
U-NII Band 3	5755	36.36	28.58	37.532	37.454	16.67	16.58	N/A	30	N/A				
	5795	33.49	35.05	37.434	37.430	16.86	16.64							

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%.

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) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	81.25	81.10	76.408	76.677	13.64	13.54	N/A	16.601	24	N/A
U-NII Band 2A	5290	81.20	80.47	76.842	76.560	14.09	14.13		17.120		30.06
U-NII Band 2C	5530	80.75	80.88	76.529	76.453	14.69	14.87		17.791		30.07
	5610	82.05	83.54	76.556	76.865	16.35	16.35		19.360		30.14
	5690	81.50	80.63	76.741	76.835	16.07	16.23		19.161		30.06
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) ^{Note 2}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	75.13	64.43	76.430	76.540	16.82	17.02	N/A	19.931	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) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	162.40	162.50	154.94	154.68	10.65	10.50	N/A	13.586	24	33.11
U-NII Band 2C	5570	162.70	162.60	154.72	154.52	13.73	14.14		16.950		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%.

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) ^{Note 2}	Limit (dBm)	Limit(11 dBm+1 0 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5180	26/0	23.77	22.41	18.900	18.895	9.18	9.26	0.168	12.398	24	N/A
		52/37	23.77	22.41	18.900	18.895	12.76	12.74	0.119	15.879		
		106/53	23.77	22.41	18.900	18.895	15.67	15.71	N/A	18.700		
U-NII Band 2A	5320	26/8	24.26	23.27	18.865	18.919	9.57	9.42	0.168	12.674	24	24.67
		52/40	24.26	23.27	18.865	18.919	13.11	12.83	0.119	16.102		24.67
		106/54	24.26	23.27	18.865	18.919	15.43	15.41	N/A	18.430		24.67
U-NII Band 2C	5500	26/0	22.79	23.00	18.878	18.884	9.58	9.38	0.168	12.659	24	24.58
		52/37	22.79	23.00	18.878	18.884	13.12	12.82	0.119	16.102		24.58
		106/53	22.79	23.00	18.878	18.884	14.89	15.11	N/A	18.012		24.58
	5700	26/8	23.77	21.76	18.914	18.815	9.46	9.21	0.168	12.515		24.38
		52/40	23.77	21.76	18.914	18.815	13.12	12.65	0.119	16.021		24.38
		106/54	23.77	21.76	18.914	18.815	15.71	15.55	N/A	18.641		24.38
U-NII Band 3	5745	26/0	15.08	15.15	18.922	18.930	15.15	15.17	0.168	18.338	30	N/A
		52/37	15.08	15.15	18.922	18.930	12.98	12.83	0.119	16.035		
		106/53	15.08	15.15	18.922	18.930	17.25	17.10	N/A	20.186		
5825	26/8	17.82	14.59	18.849	18.918	15.59	15.43	0.168	18.689			
	52/40	17.82	14.59	18.849	18.918	13.16	12.91	0.119	16.166			
	106/54	17.82	14.59	18.849	18.918	17.07	16.93	N/A	20.011			

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%.

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) ^{Note 2}	Limit (dBm)	Limit(1 dBm+ 10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5190	242/61	42.56	43.16	37.515	37.622	16.18	16.28	0.119	24	N/A	
U-NII Band 2A	5310	242/62	42.66	42.01	37.528	37.523	15.80	15.71				
U-NII Band 2C	5510	242/61	41.41	41.51	37.482	37.469	17.16	17.30				
	5670	242/62	41.91	42.01	37.421	37.565	17.59	17.36				
U-NII Band 3	5755	242/61	36.36	28.58	37.532	37.454	17.13	17.06	0.119	30	N/A	
	5795	242/62	33.49	35.05	37.434	37.430	17.86	17.64				

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%.

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) ^{Note 2}	Limit (dBm)	Limit(11 d Bm+10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5210	484/65	81.25	81.10	76.408	76.677	14.06	13.91	N/A	16.996	24	N/A
U-NII Band 2A	5290	484/66	81.20	80.47	76.842	76.560	12.18	11.74				30.06
U-NII Band 2C	5530	484/65	80.75	80.88	76.529	76.453	15.22	14.99				30.07
	5610	484/66	82.05	83.54	76.556	76.865	17.36	16.76				30.14
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) ^{Note 2}	Limit (dBm)	Limit(11 d Bm+10 log B) ^{Note 3}
			Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 3	5775	484/65	75.13	64.43	76.430	76.540	17.38	17.05	N/A	20.228	30	N/A
		484/66	75.13	64.43	76.430	76.540	17.62	17.12				

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) ^{Note 2}	Limit (dBm)	Limit(11 d Bm+10 log B) ^{Note 3}	
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main					
			Aux	Main	Aux	Main							
U-NII Band 1/2A	5250	996/97	162.40	162.50	154.94	154.68	13.21	13.37	0.159	16.460	24	33.11	
		996/S67	162.40	162.50	154.94	154.68	11.55	11.53				33.11	
U-NII Band 2C	5570	996/97	162.70	162.60	154.72	154.52	13.32	13.72				16.694	33.11
		996/S67	162.70	162.60	154.72	154.52	15.98	16.37				19.349	33.11

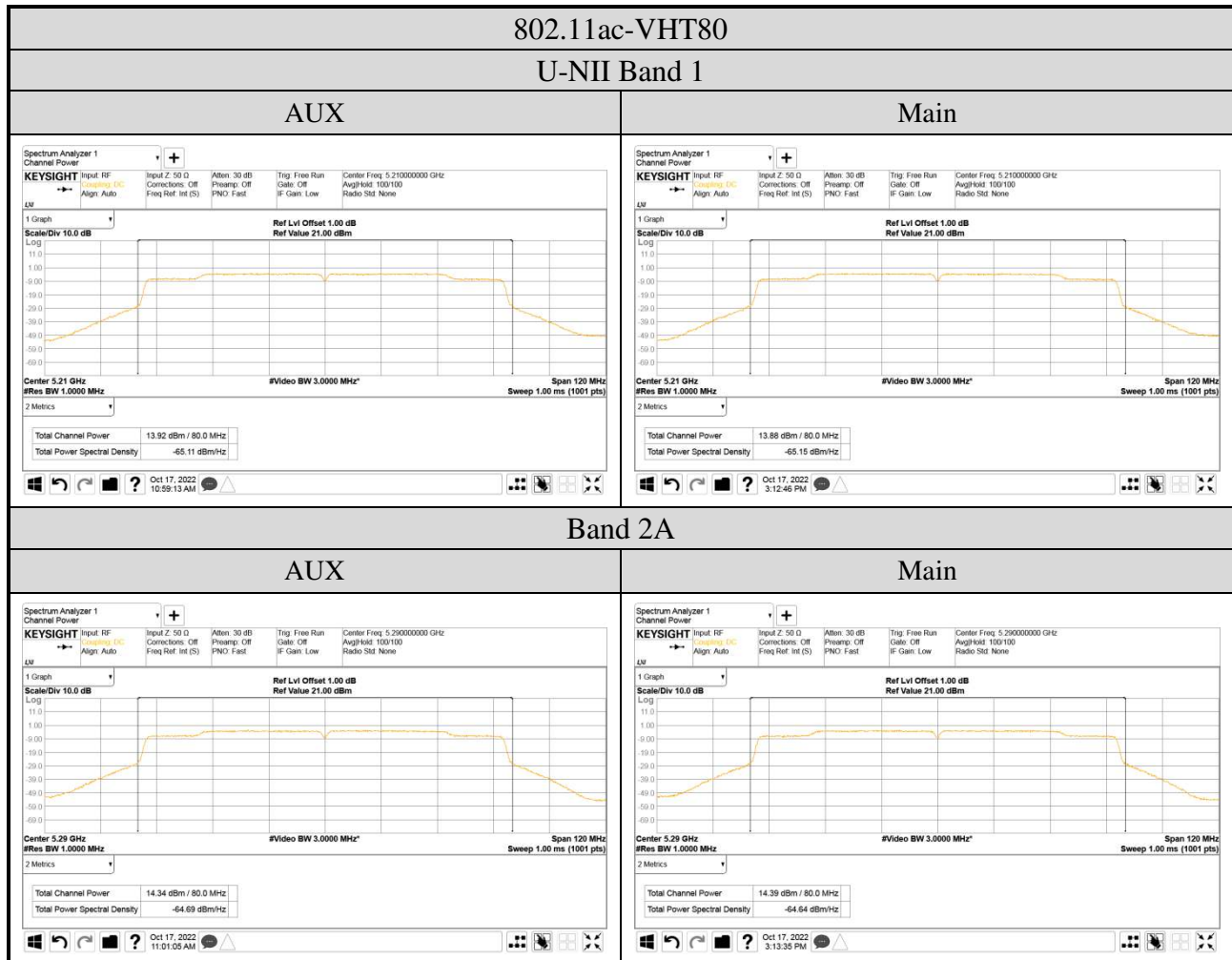
Note: 1. The results have been included cable loss.

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%.

3. B is the 26 dB emission bandwidth

A.3.2 Measurement Plots

- Maximum Output Power



802.11ac-VHT80

U-NII Band 2C

AUX

Main

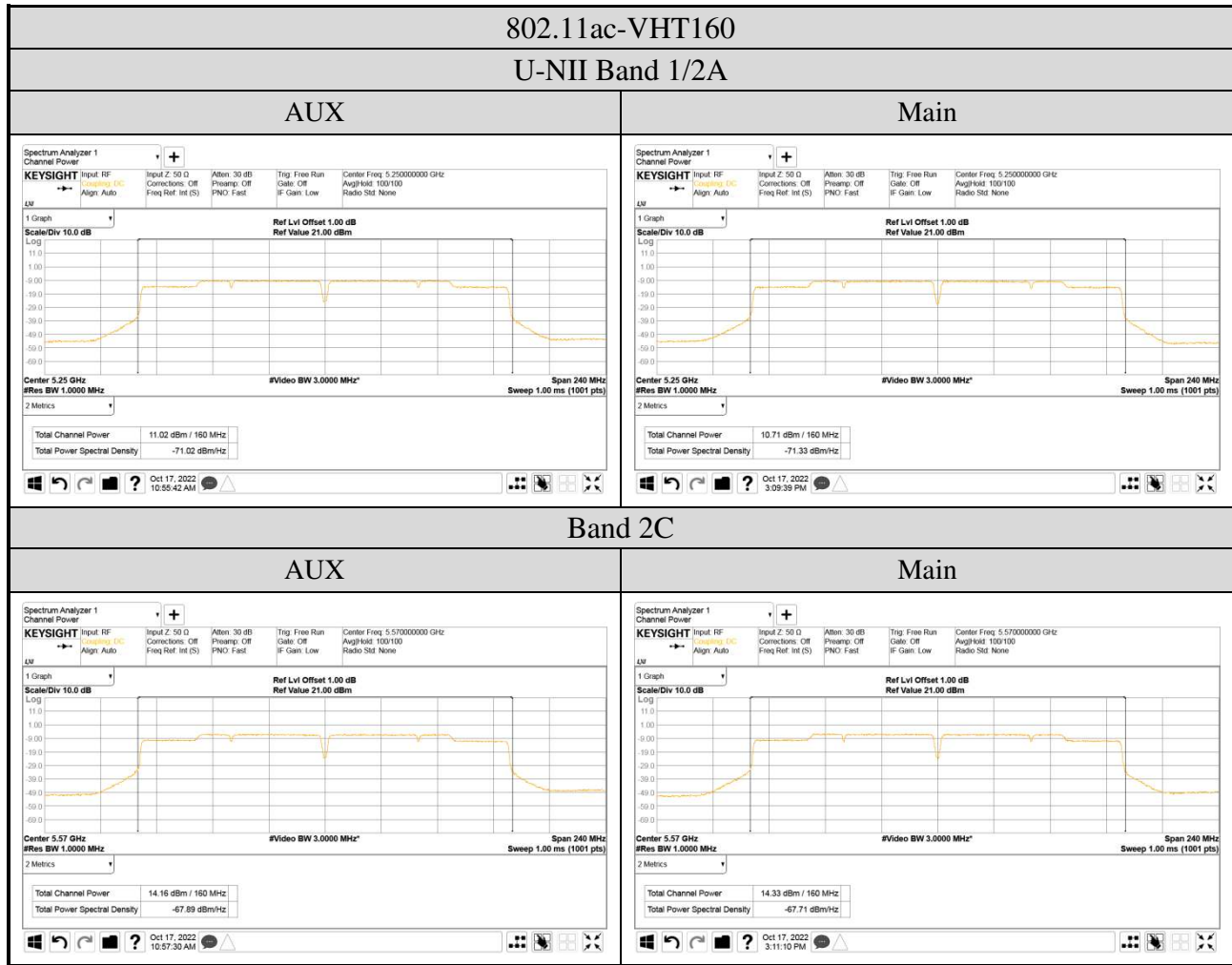


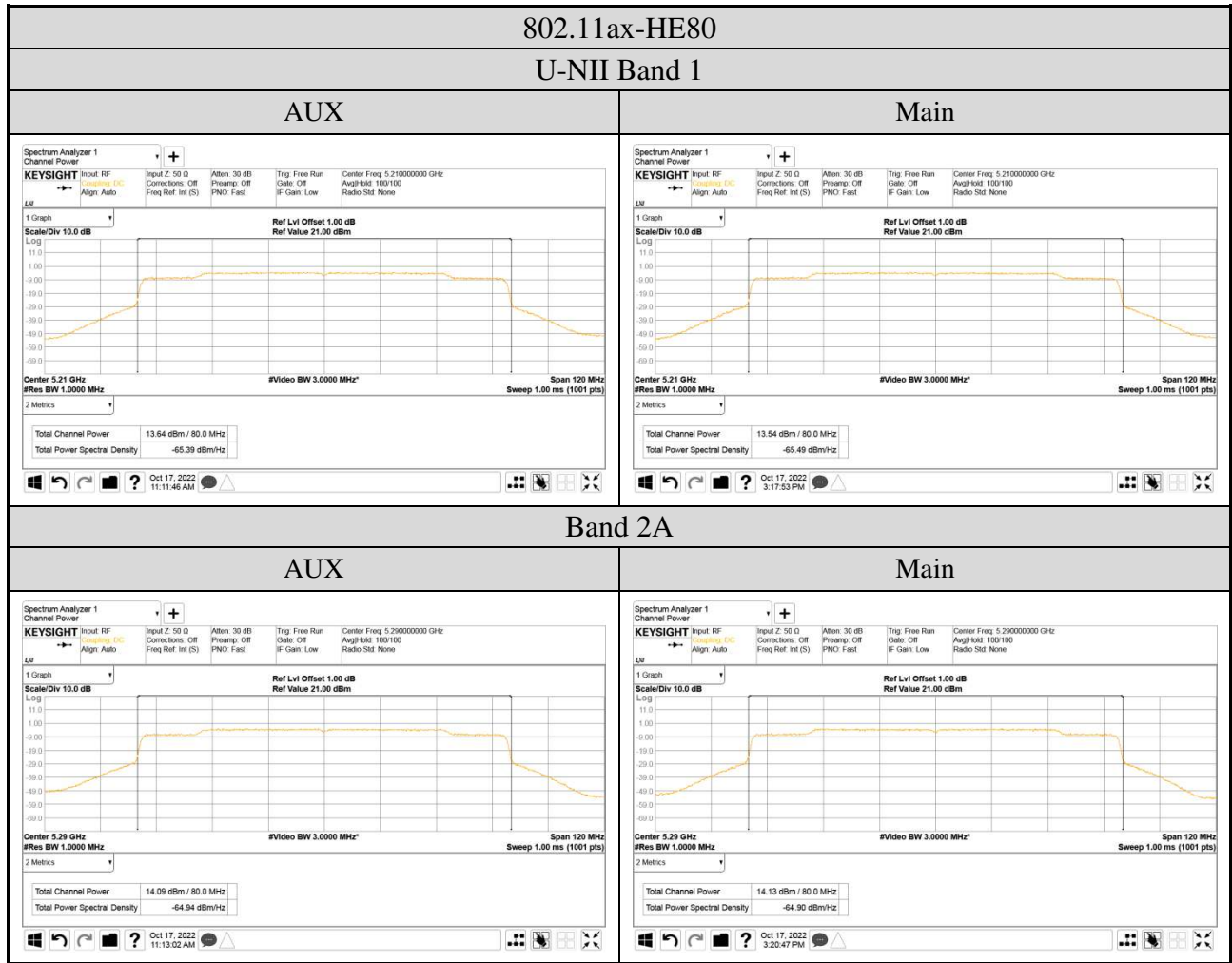
Band 3

AUX

Main







802.11ax-HE80

U-NII Band 2C

AUX

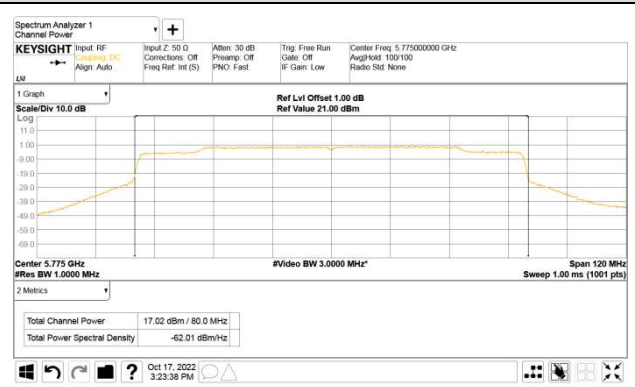
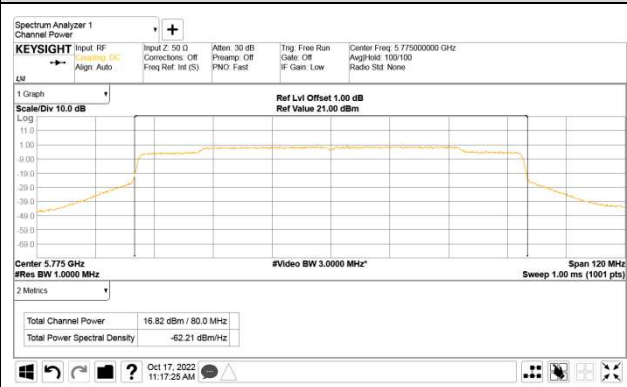
Main

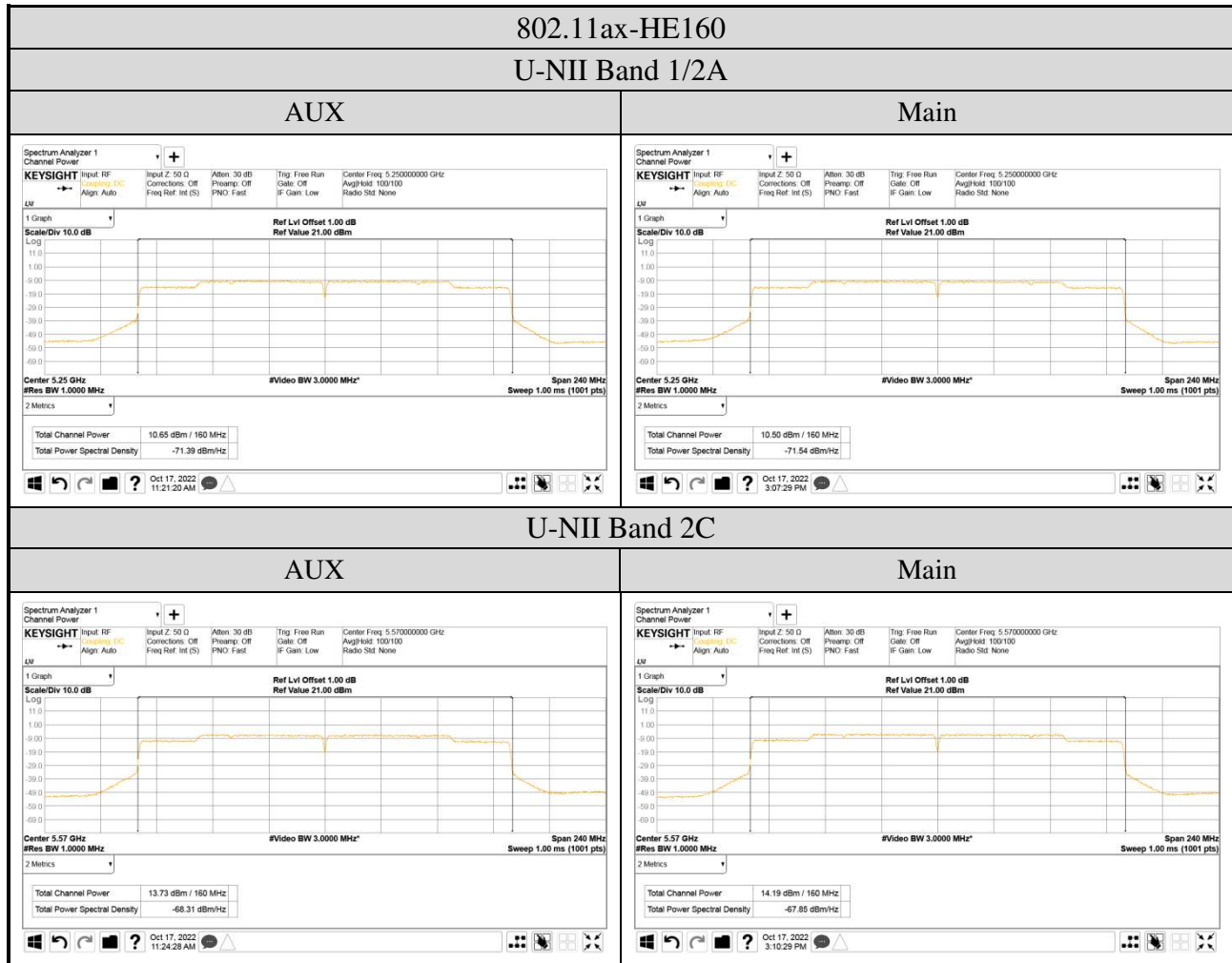


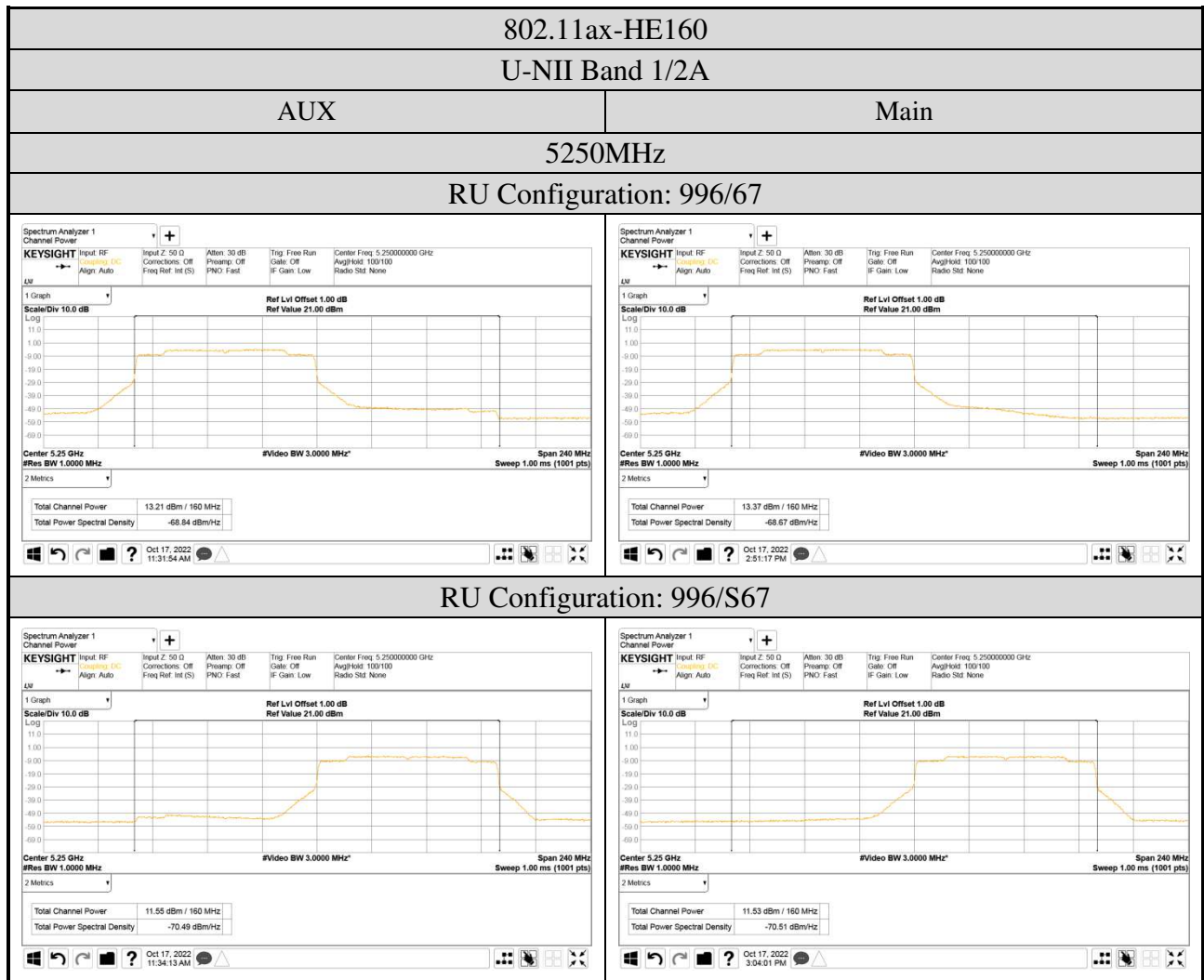
U-NII Band 3

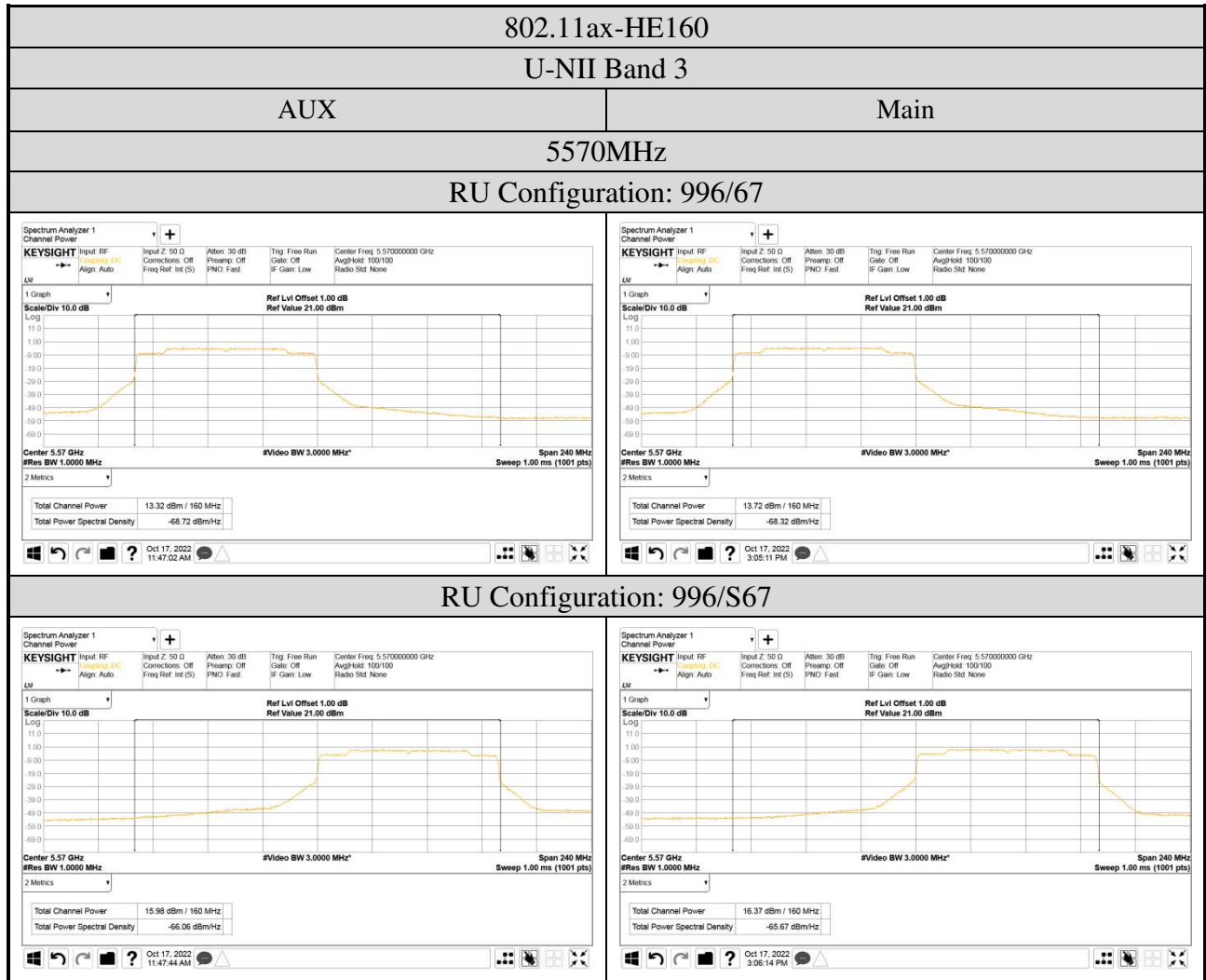
AUX

Main









● Emission (26dB) Bandwidth

