

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED

BANDWIDTH

Test Date	2022/12/23 ~ 26	Temp./Hum.	16°C/65%
Cable Loss	1.0dB	Tested By	Hua Wu
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)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm +10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth	Occupied (99%) Bandwidth							
U-NII Band 1	5180	20.99	16.602	10.44	0.292	10.73	24	N/A		
	5200	20.86	16.585	10.33		10.62				
	5240	21.15	16.615	10.49		10.78				
U-NII Band 2A	5260	21.10	16.653	10.20		10.49		24.24		
	5300	21.16	16.637	10.21		10.50		24.26		
	5320	21.12	16.614	10.26		10.55		24.25		
U-NII Band 2C	5500	21.22	16.644	10.60		10.89		24.27		
	5580	21.09	16.654	10.21		10.50		24.24		
	5700	20.92	16.671	10.32		10.61		24.21		
	5720	20.95	16.663	11.06		11.35		24.21		
Mode 802.11a	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	U-NII Band 3	5745	16.34		16.665		10.970	0.292	11.26
5785	16.33		16.661	10.420	10.71					
5825	16.35		16.630	10.250	10.54					

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

2. Total Average Output Power (dBm) = The 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) ^{Note 2}	Limit (dBm)	Limit(1 dBm +10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth	Occupied (99%) Bandwidth							
U-NII Band 1	5180	21.33	17.780	10.34	0.315	10.66	24	N/A		
	5200	21.19	17.722	10.26		10.58				
	5240	21.03	17.745	10.28		10.60				
U-NII Band 2A	5260	21.23	17.764	11.05		11.37			24.27	
	5300	21.08	17.731	10.98		11.30			24.24	
	5320	21.29	17.760	10.96		11.28			24.28	
U-NII Band 2C	5500	21.23	17.778	11.01		11.33		24.27		
	5580	21.61	17.772	11.20		11.52		24.35		
	5700	21.07	17.726	10.93		11.25		24.24		
	5720	21.08	17.784	10.66		10.98		24.24		
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) ^{Note 2}	Limit (dBm)	Limit(1 dBm +10 log B) ^{Note 3}
U-NII Band 3	5745	17.19	17.764	10.64		0.315		10.96	30	N/A
	5785	17.56	17.784	10.08	10.40					
	5825	17.31	17.805	10.65	10.97					

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

2. Total Average Output Power (dBm) = The 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-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(1 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth	Occupied (99%) Bandwidth					
U-NII Band 1	5190	39.46	36.199	8.28	0.610	8.89	24	N/A
	5230	39.51	36.200	8.45		9.06		
U-NII Band 2A	5270	39.55	36.167	8.31		8.92		26.97
	5310	39.55	36.160	8.29		8.90		26.97
U-NII Band 2C	5510	39.77	36.227	8.65		9.26		27.00
	5550	39.44	36.195	8.30		8.91		26.96
	5670	39.47	36.185	8.49		9.10		26.96
	5710	39.44	36.218	9.07		9.68		26.96
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(1 dBm +10 log B) ^{Note 3}
U-NII Band 3	5755	35.55	36.248	8.87	0.610	9.48	30	N/A
	5795	35.71	36.151	8.51		9.12		

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) ^{Note 2}	Limit (dBm)	Limit(1 dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth	Occupied (99%) Bandwidth					
U-NII Band 1	5210	80.46	75.480	6.93	1.129	8.06	24	N/A
U-NII Band 2A	5290	80.77	75.467	6.88		8.01		30.07
U-NII Band 2C	5530	80.61	75.418	6.59		7.72		30.06
	5610	81.69	75.628	6.64		7.77		30.12
	5690	81.72	75.740	7.10		8.23		30.12
Mode 802.11ac- VHT80	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(1 dBm +10 log B) ^{Note 3}
U-NII Band 3	5775	75.66	75.425	6.96	1.129	8.09	30	N/A

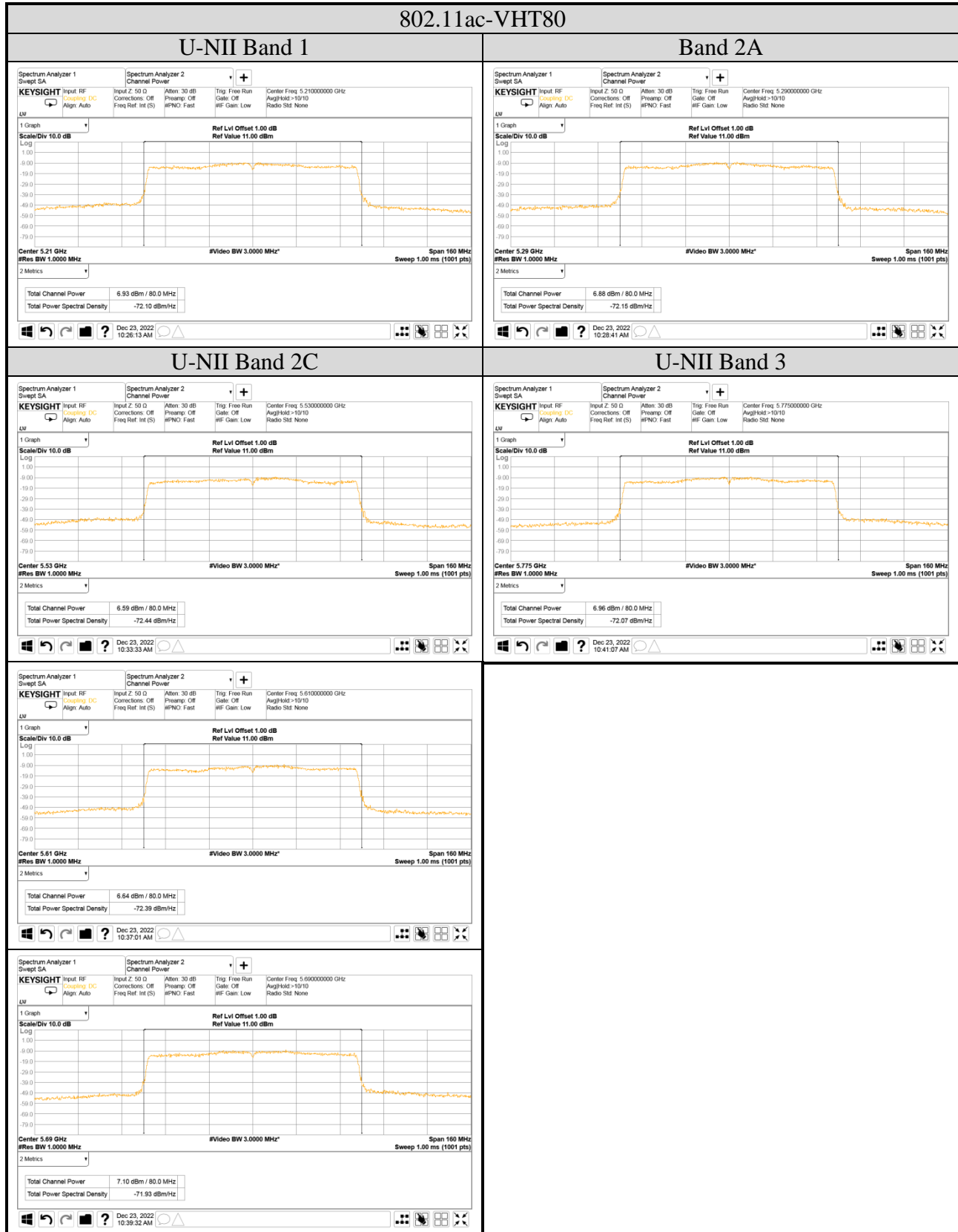
Note: 1. The results have been included cable loss.

2. Total Average Output Power (dBm) = The average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

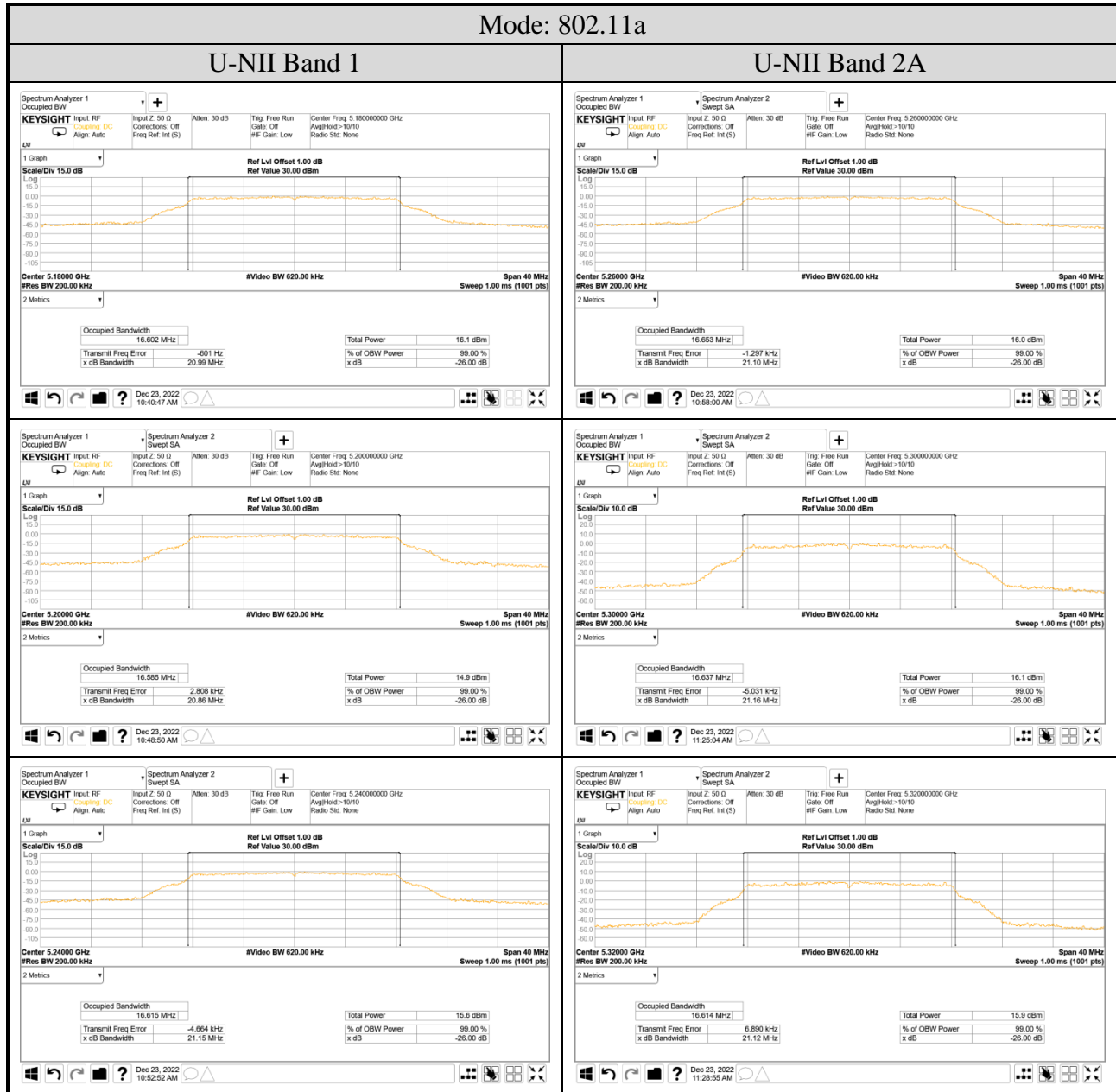
3. B is the 26 dB emission bandwidth.

A.3.2 Measurement Plots

- Maximum Output Power

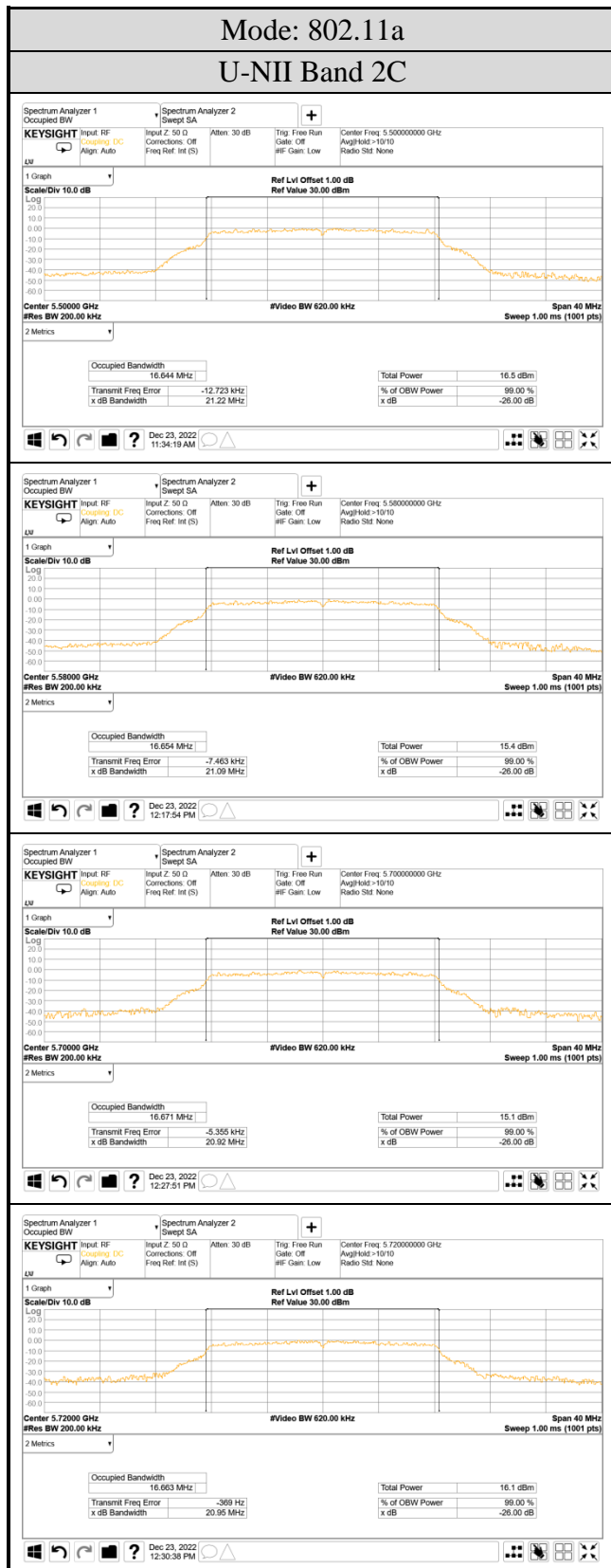


● Emission (26dB) Bandwidth



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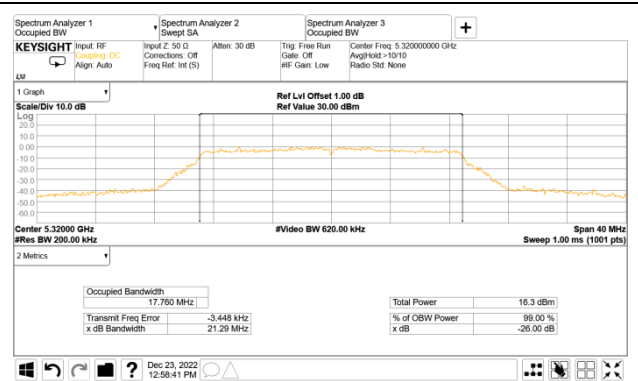
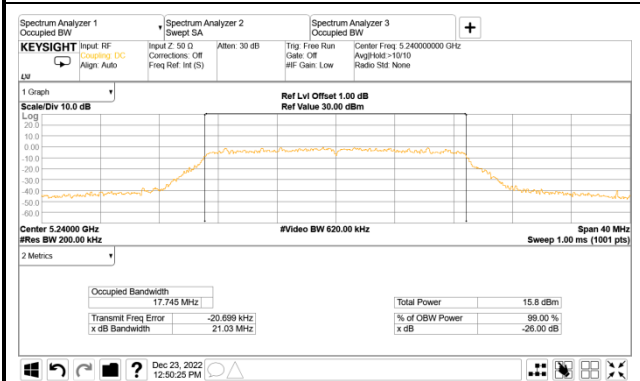
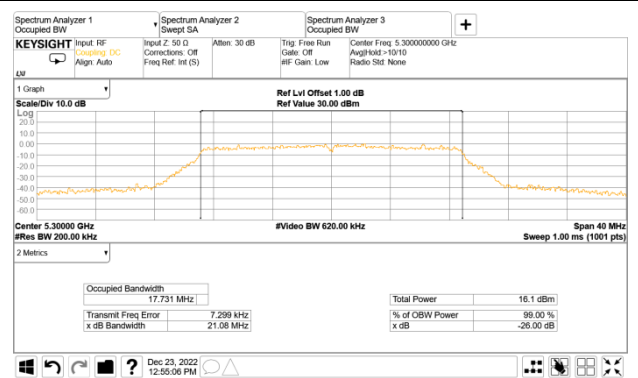
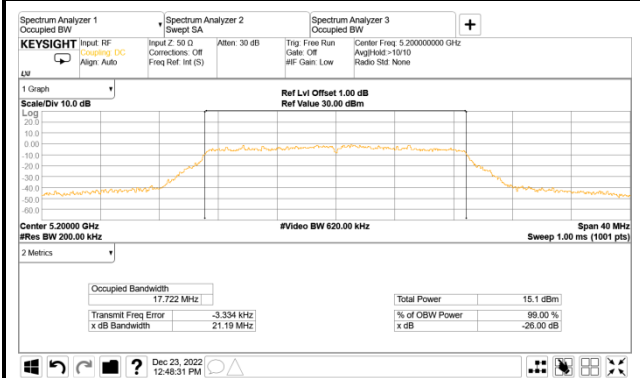
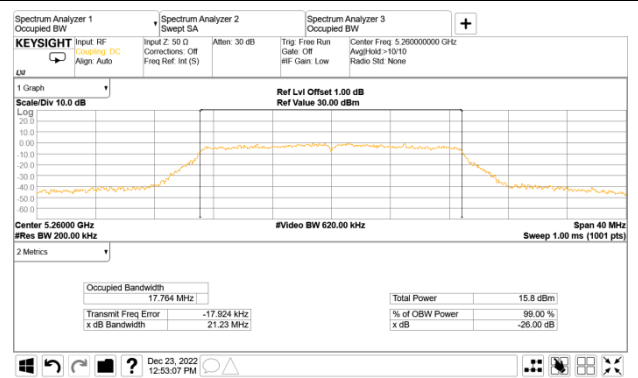
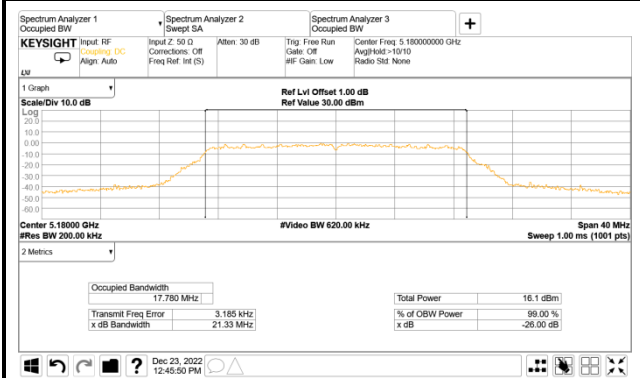
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Mode: 802.11n-HT20

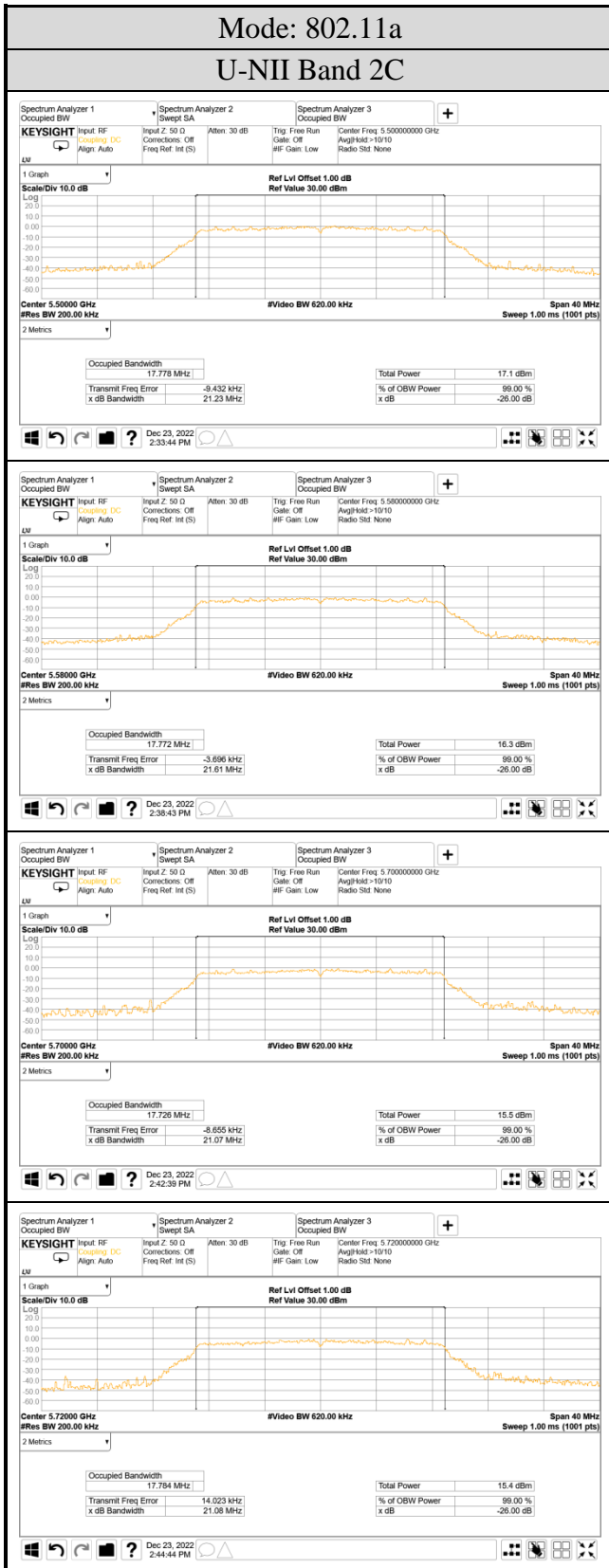
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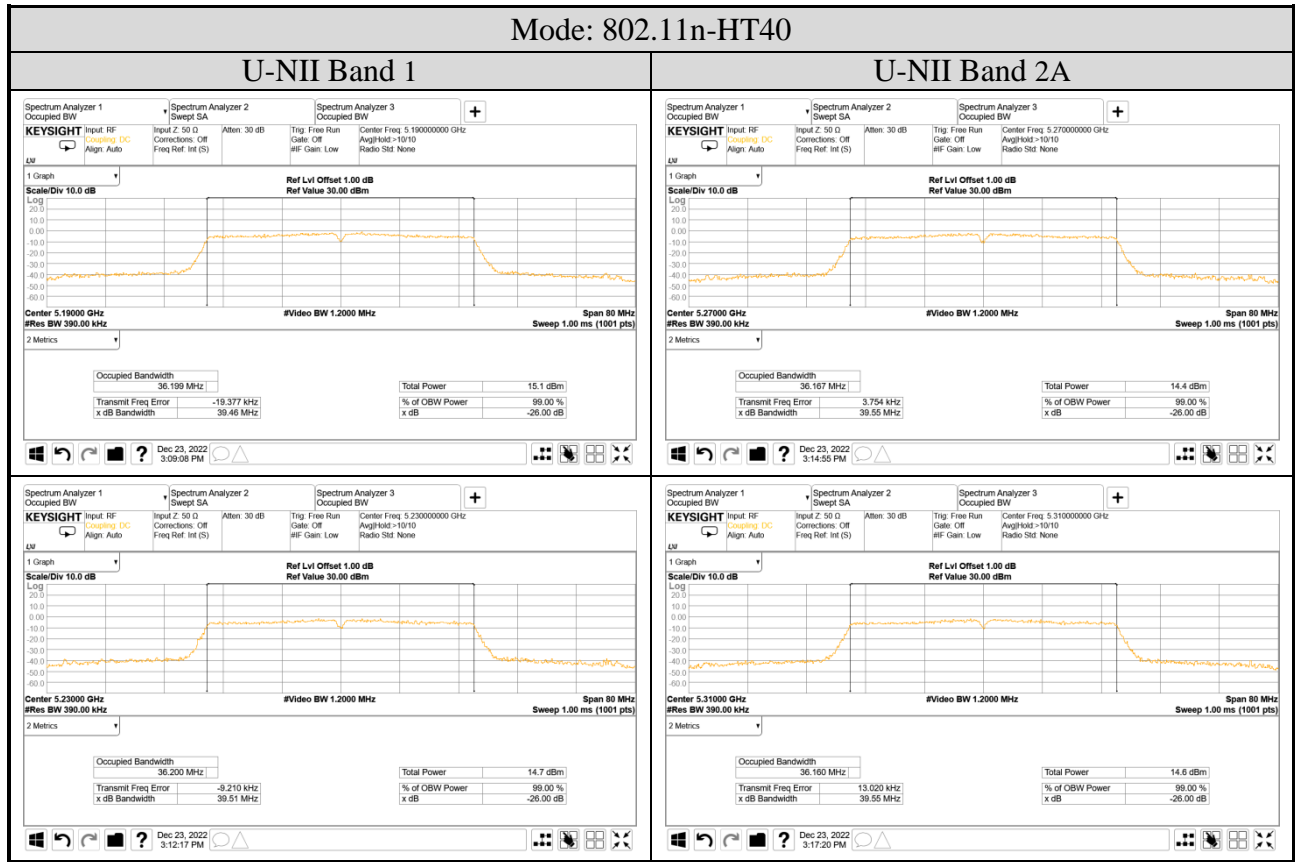
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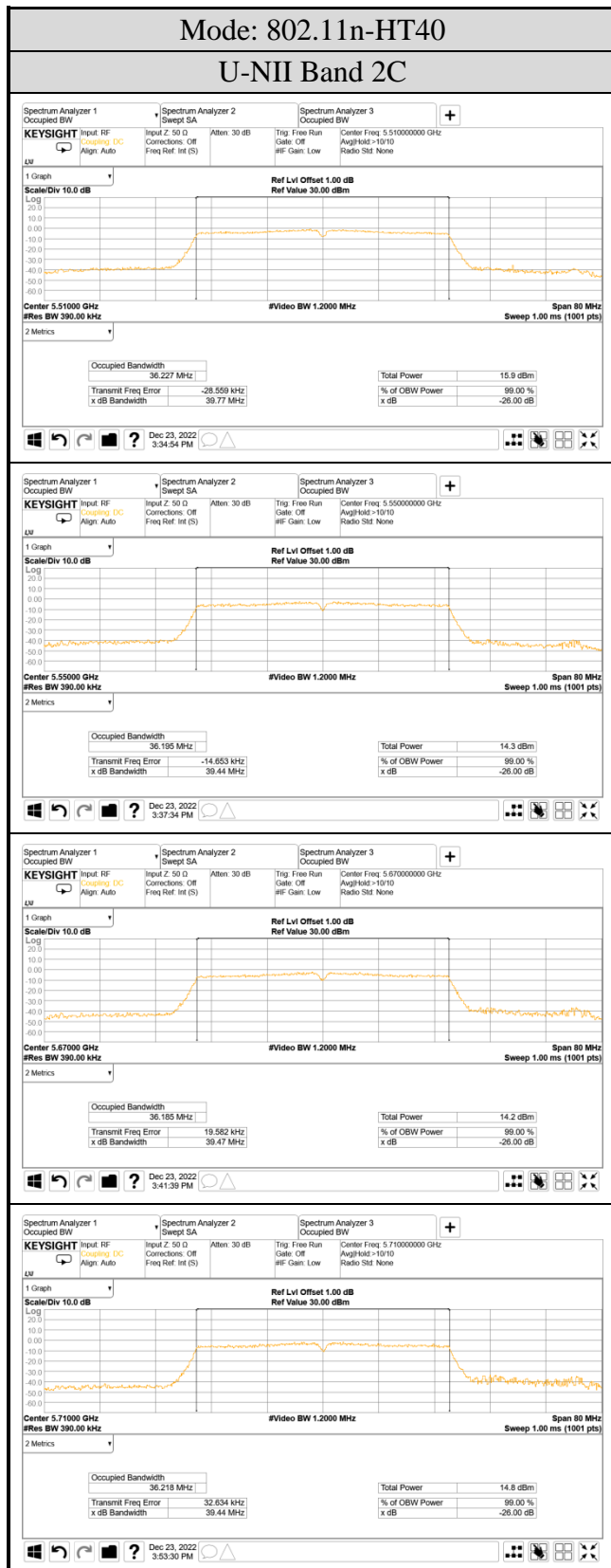


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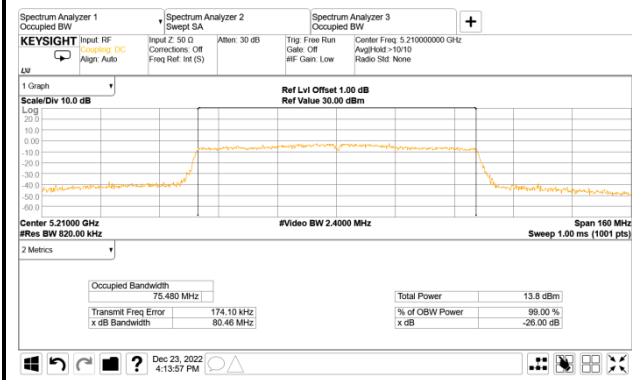




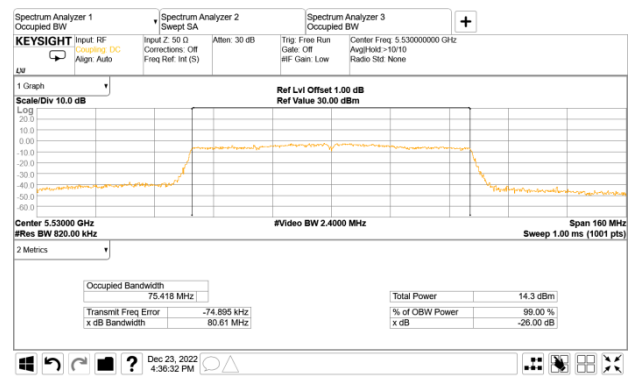


Mode: 802.11ac-VHT80

U-NII Band 1



U-NII Band 2C



U-NII Band 2A

