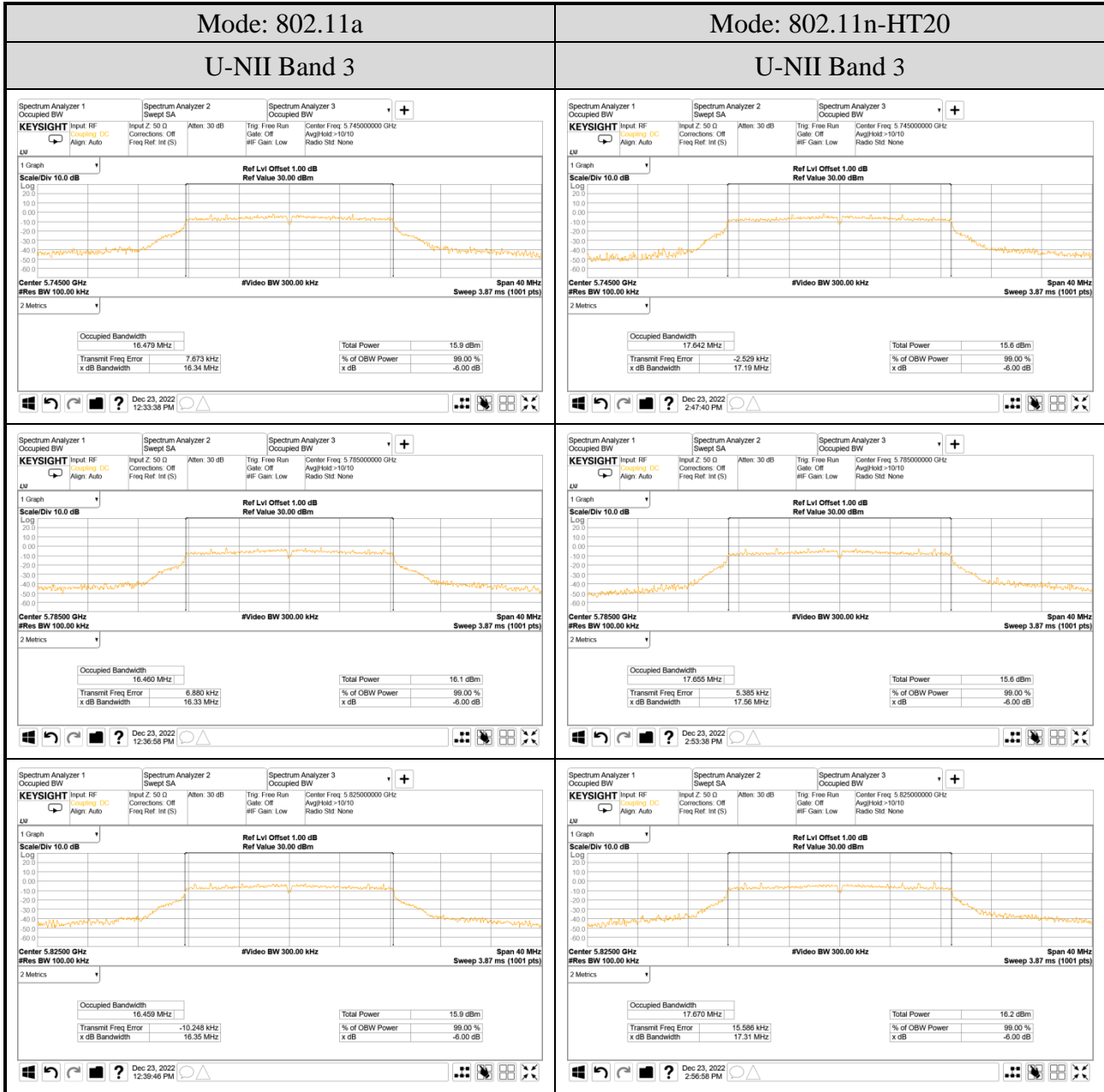
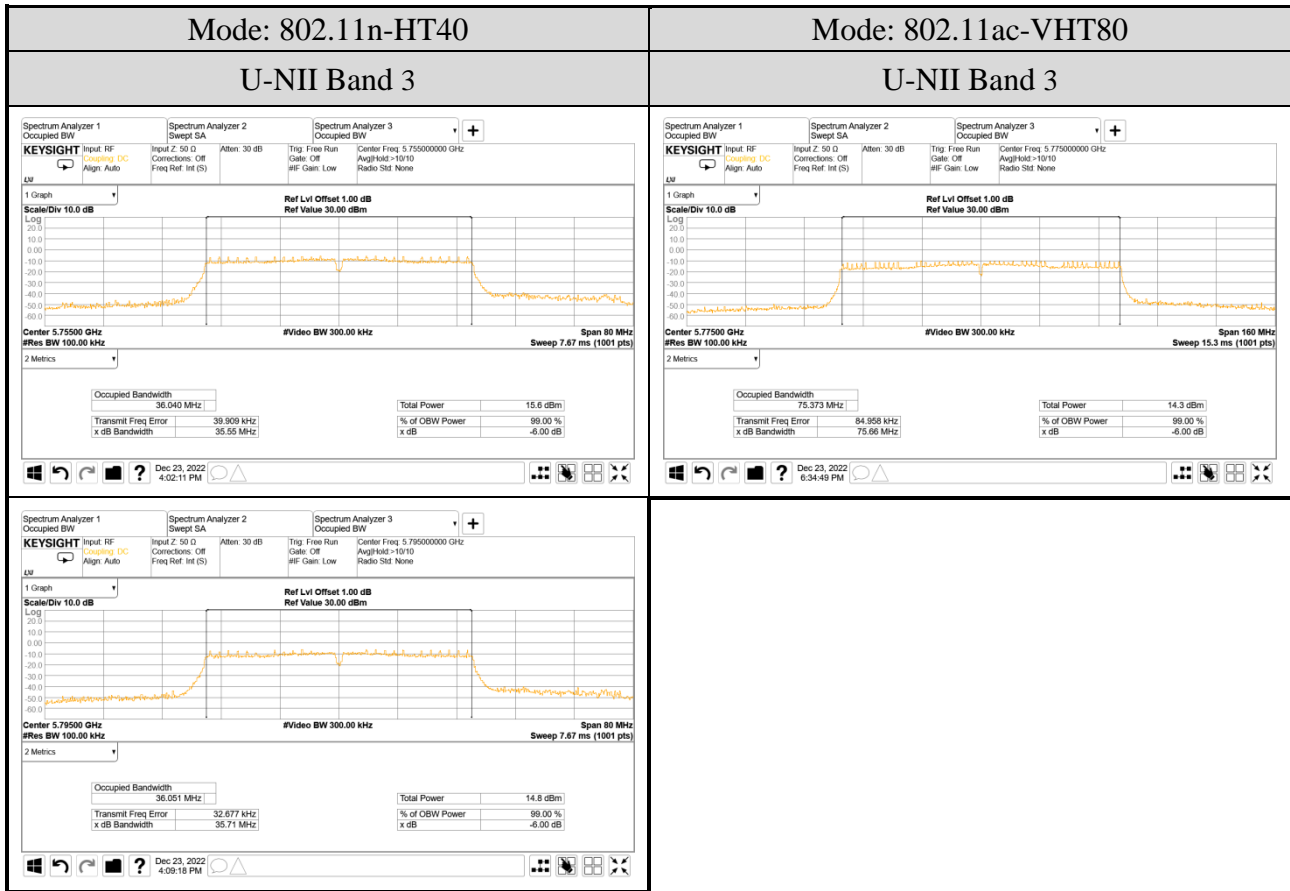
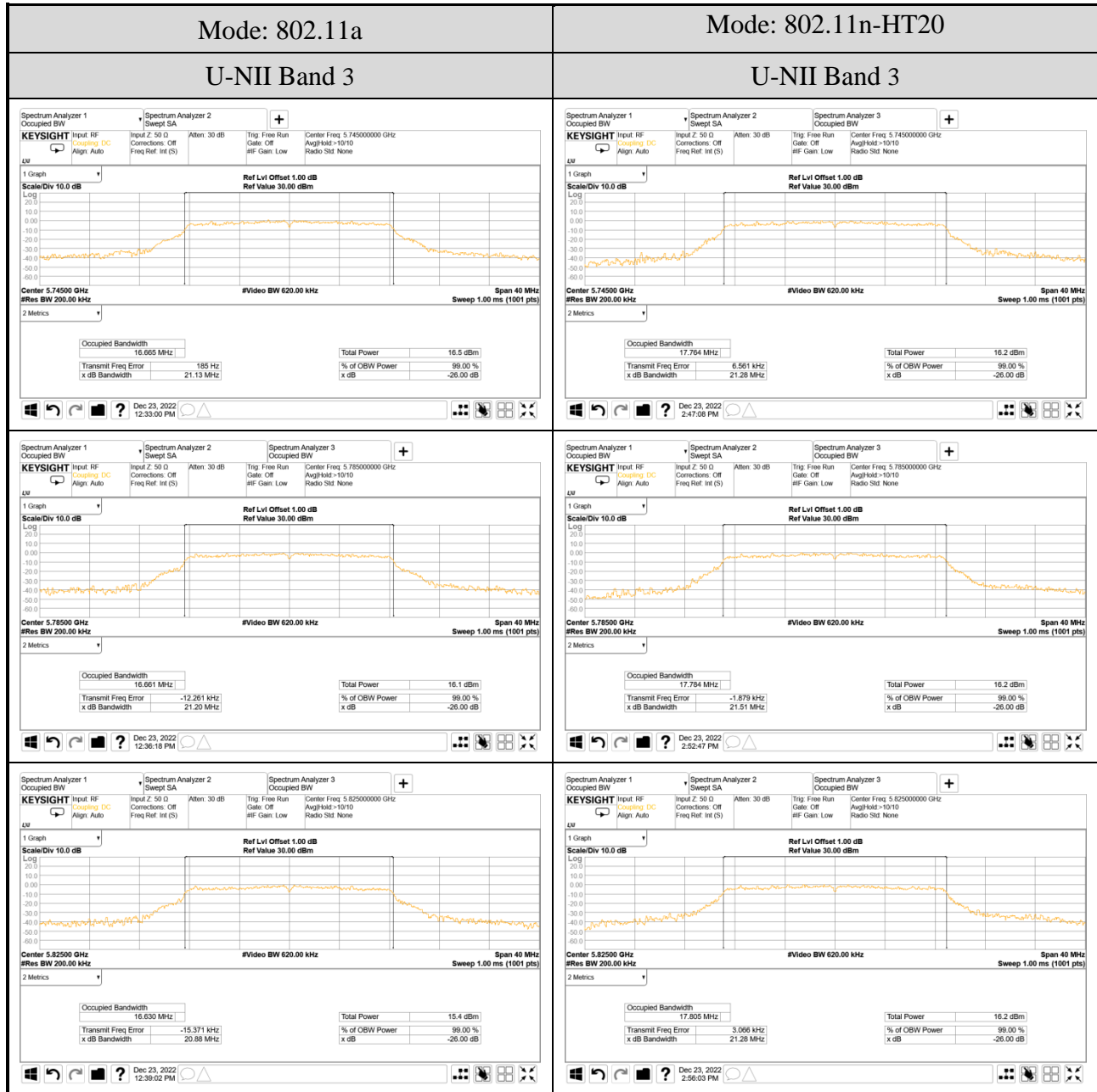


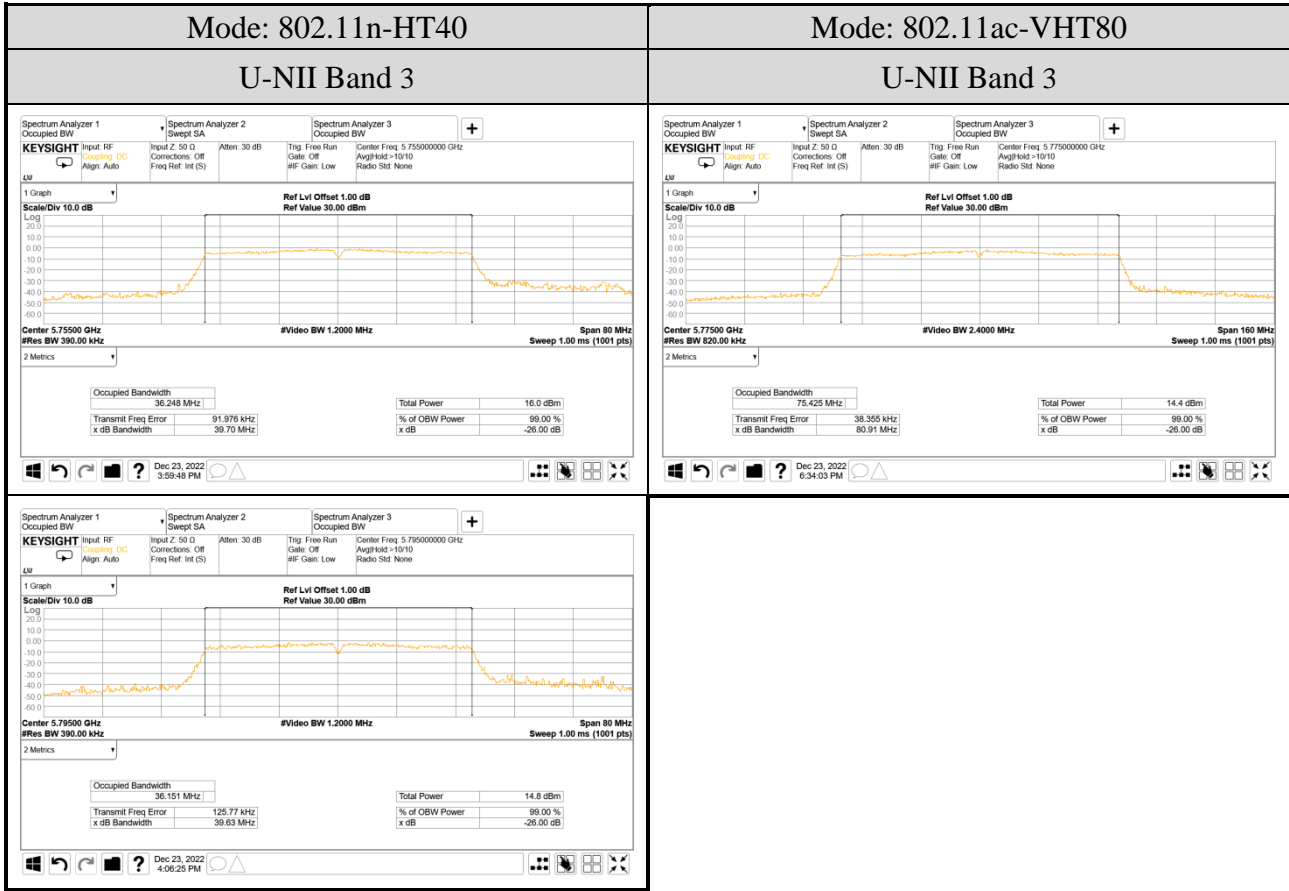
● For Emission (6dB) Bandwidth





● For Occupied (99%) Bandwidth





A.4 POWER SPECTRAL DENSITY

Test Date	2022/12/23	Temp./Hum.	16°C/65%
Cable Loss	1.0dB	Tested By	Hua Wu
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 $10\log(1/X)$	Total Power Spectral Density (dBm/1MHz) <small>Note 3</small>	Limit
802.11a	1	5180	-0.951	0.292	-0.659	11 dBm/MHz
		5200	-0.856		-0.564	
		5240	-0.572		-0.280	
	2A	5260	-1.123		-0.831	
		5300	-0.201		0.091	
		5320	-0.694		-0.402	
	2C	5500	-0.135		0.157	
		5580	-1.368		-1.076	
		5700	-1.258		-0.966	
		5720	-0.151		0.141	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/1MHz) <small>Note 4</small>	Limit
802.11a	3 ^{Note2}	5745	-2.014	0.292	-1.722	30dBm/500 kHz
		5785	-2.078		-1.786	
		5825	-2.533		-2.241	

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

2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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

4. Total Power Spectral Density (dBm/500kHz) = PSD (dBm/500kHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/1MHz) <small>Note 3</small>	Limit
802.11n-HT 20	1	5180	-1.180	0.315	-0.865	11 dBm/MHz
		5200	-1.047		-0.732	
		5240	-1.106		-0.791	
	2A	5260	-0.472		-0.157	
		5300	0.122		0.437	
		5320	-0.298		0.017	
	2C	5500	-0.054		0.261	
		5580	-0.965		-0.650	
		5700	-0.582		-0.267	
		5720	-1.183		-0.868	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/500kHz) <small>Note 4</small>	Limit
802.11n-HT 20	3 ^{Note2}	5745	-2.774	0.315	-2.459	30dBm/500 kHz
		5785	-2.643		-2.328	
		5825	-2.276		-1.961	

- Note :1. All results have been included cable loss.
 2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.
 3. Total Power Spectral Density (dBm/1MHz) = PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.
 4. Total Power Spectral Density (dBm/500kHz) = PSD (dBm/500kHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/1MHz) <small>Note 3</small>	Limit
802.11n-HT 40	1	5190	-5.436	0.610	-4.826	11 dBm/MHz
		5230	-5.606		-4.996	
	2A	5270	-5.952		-5.342	
		5310	-5.258		-4.648	
	2C	5510	-5.541		-4.931	
		5550	-6.378		-5.768	
		5670	-6.367		-5.757	
		5710	-5.454		-4.844	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/500kHz) <small>Note 4</small>	Limit
802.11n-HT 40	3 ^{Note2}	5755	-7.989	0.610	-7.379	30dBm/500 kHz
		5795	-8.119		-7.509	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/1MHz) <small>Note 3</small>	Limit
802.11ac-VHT80	1	5210	-9.852	1.129	-8.723	11 dBm/MHz
		5290	-9.201		-8.072	
	2C	5530	-9.578		-8.449	
		5610	-9.246		-8.117	
		5690	-8.746		-7.617	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/500kHz) <small>Note 4</small>	Limit
802.11ac-VHT80	3 ^{Note2}	5775	-12.406	1.129	-11.277	30dBm/500 kHz

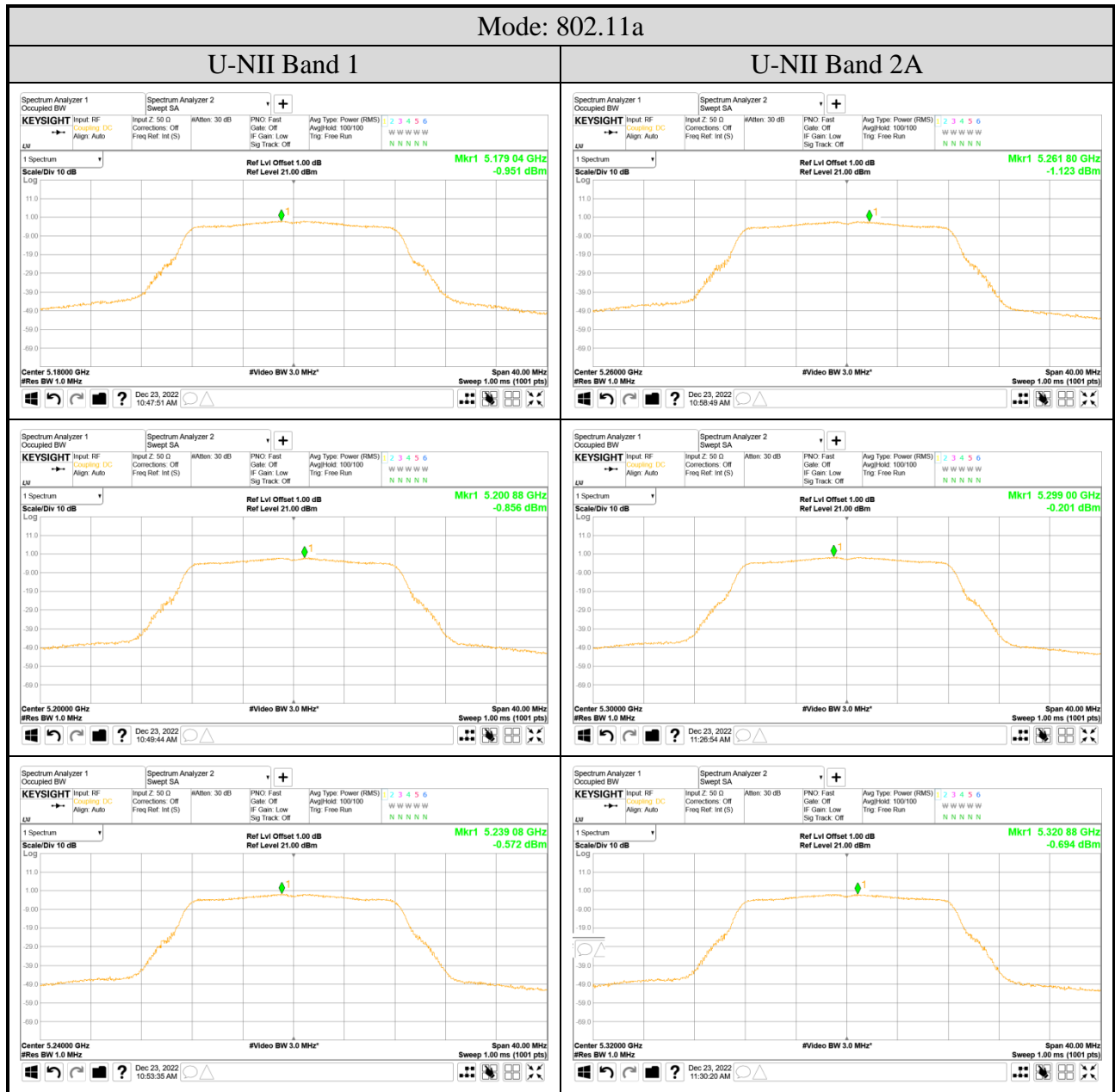
Note :1. All results have been included cable loss.

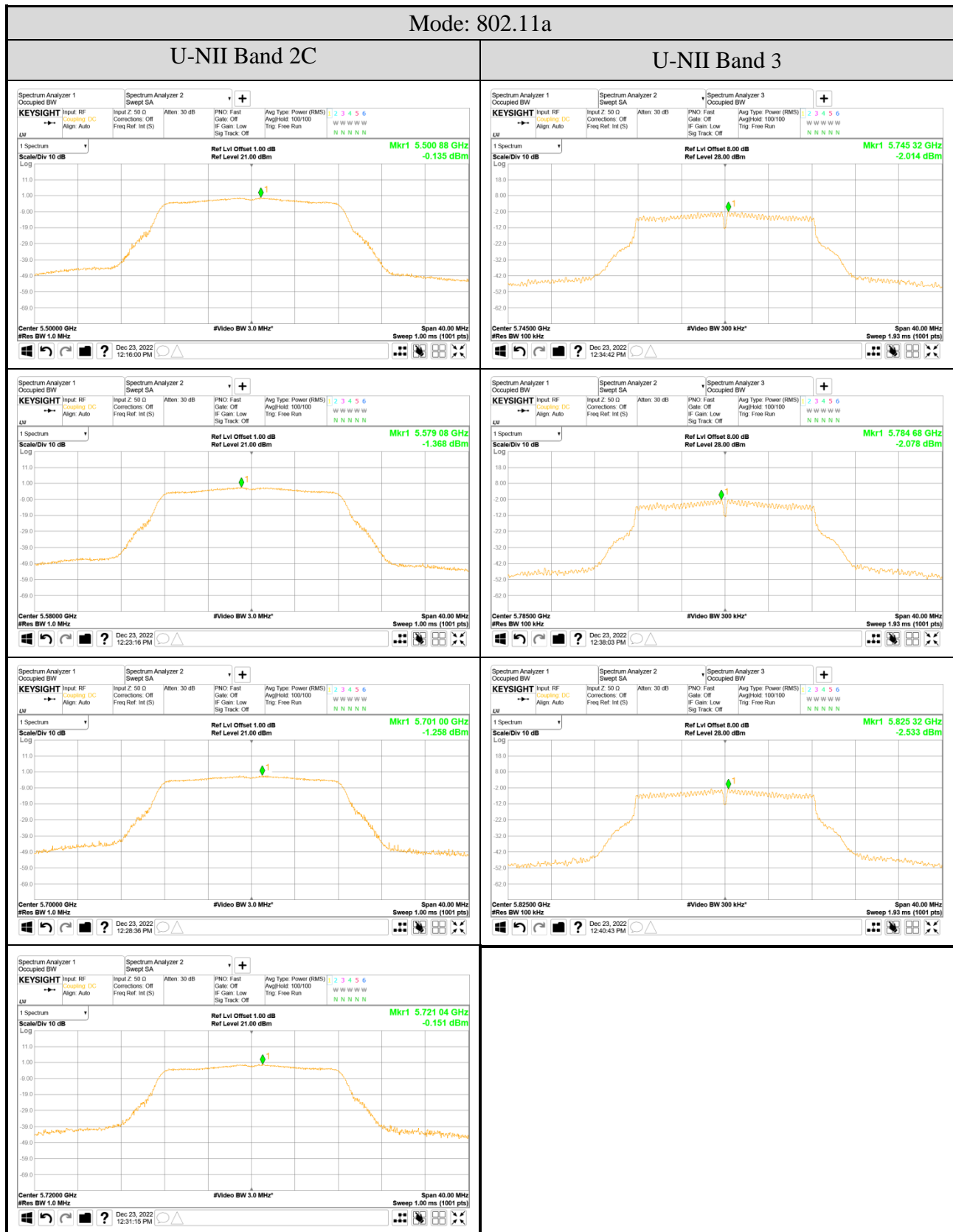
2. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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

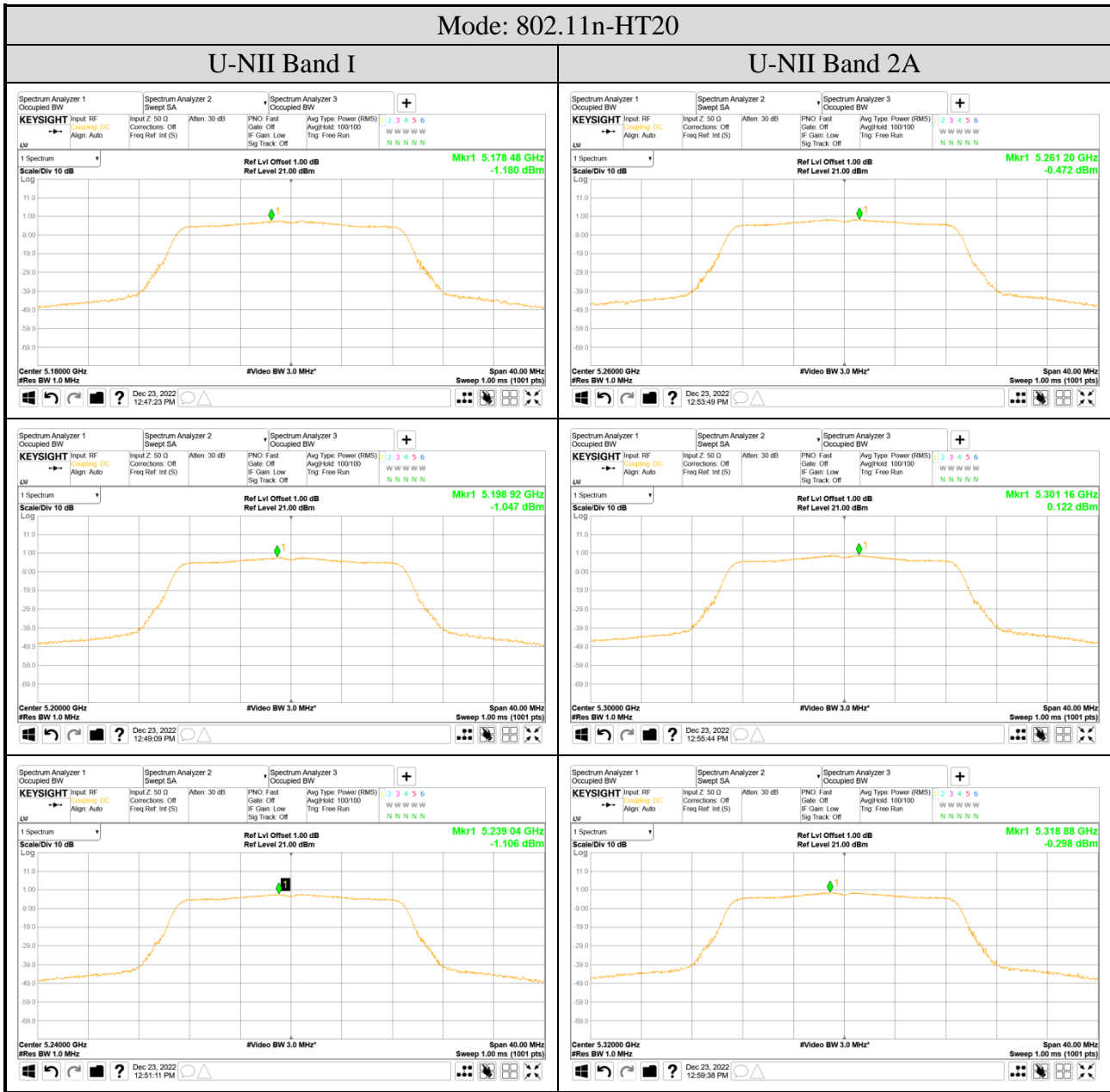
4. Total Power Spectral Density (dBm/500kHz) = PSD (dBm/500kHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

A.4.2 Measurement Plots





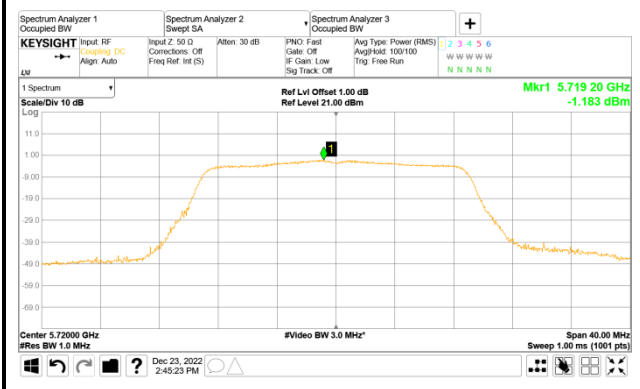
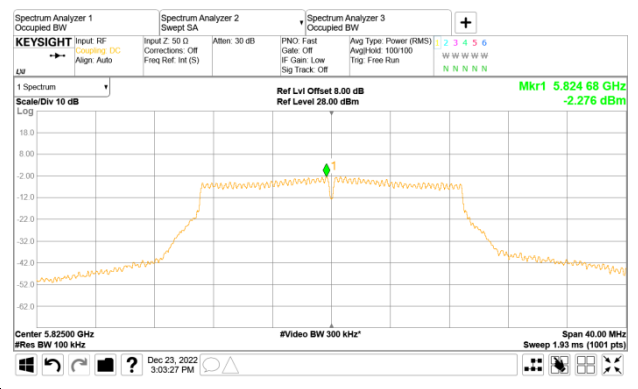
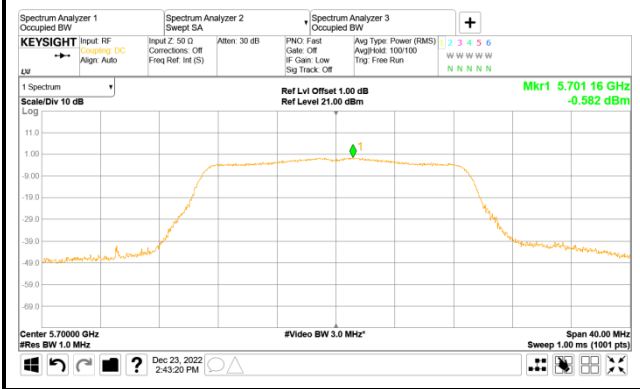
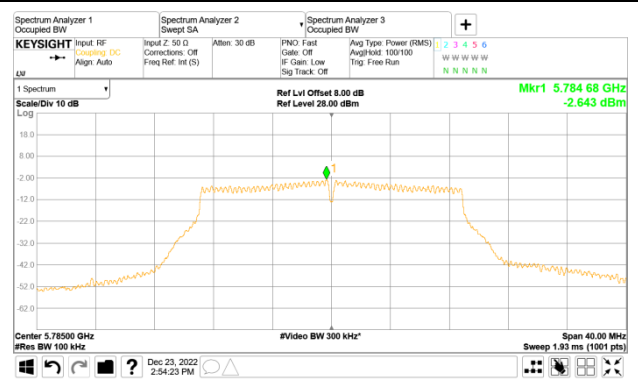
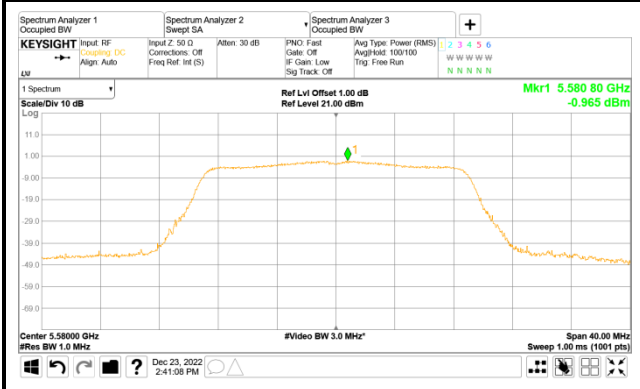
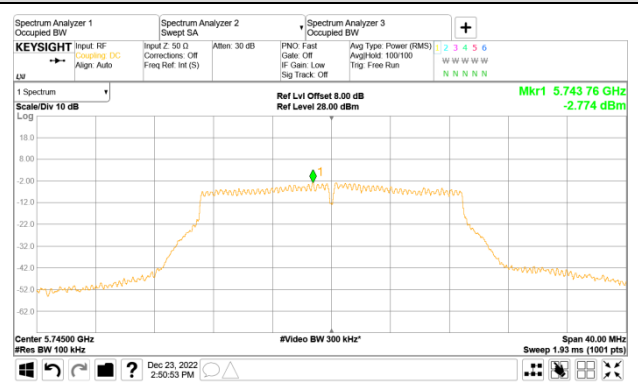
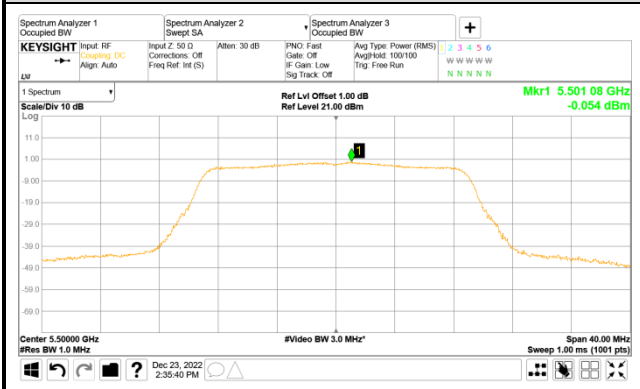
Mode: 802.11n-HT20

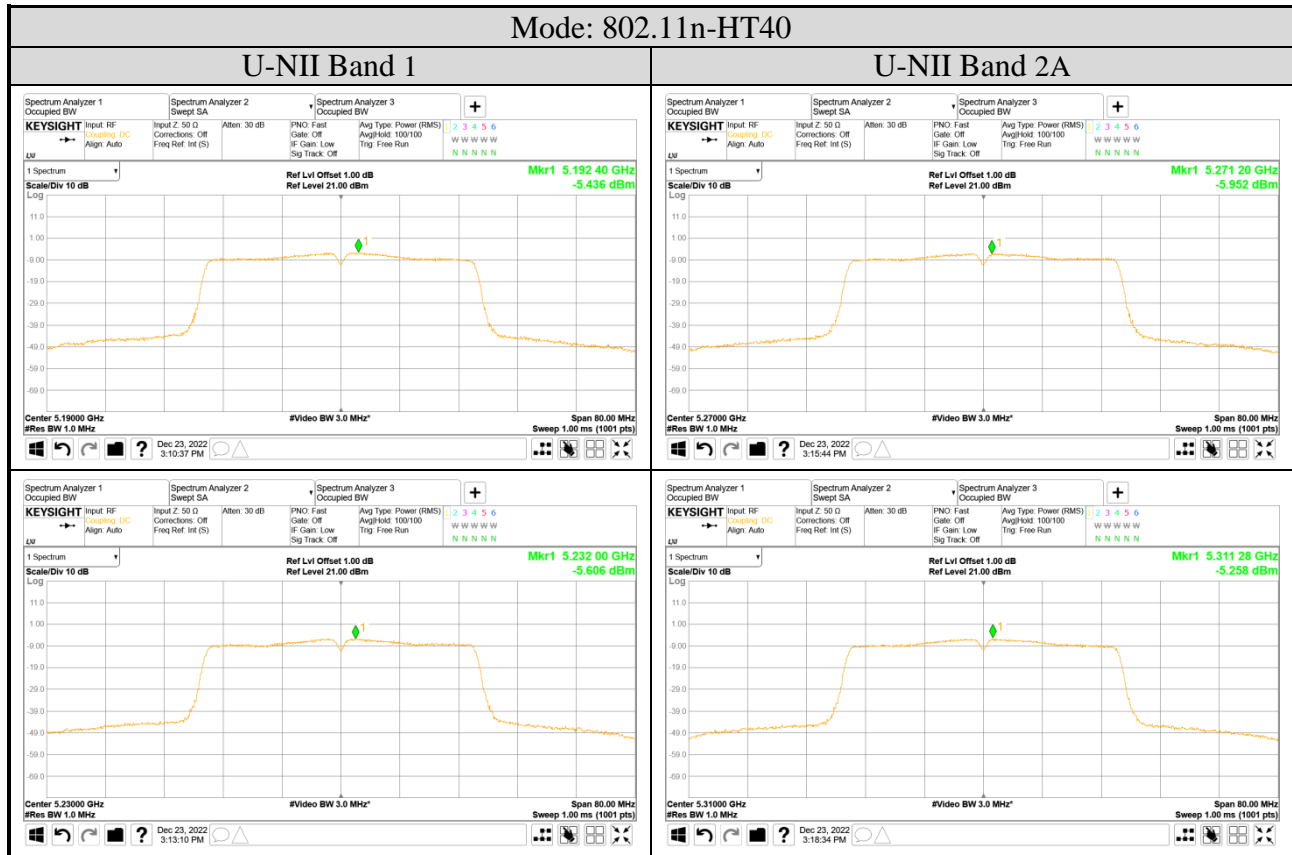


Mode: 802.11n-HT20

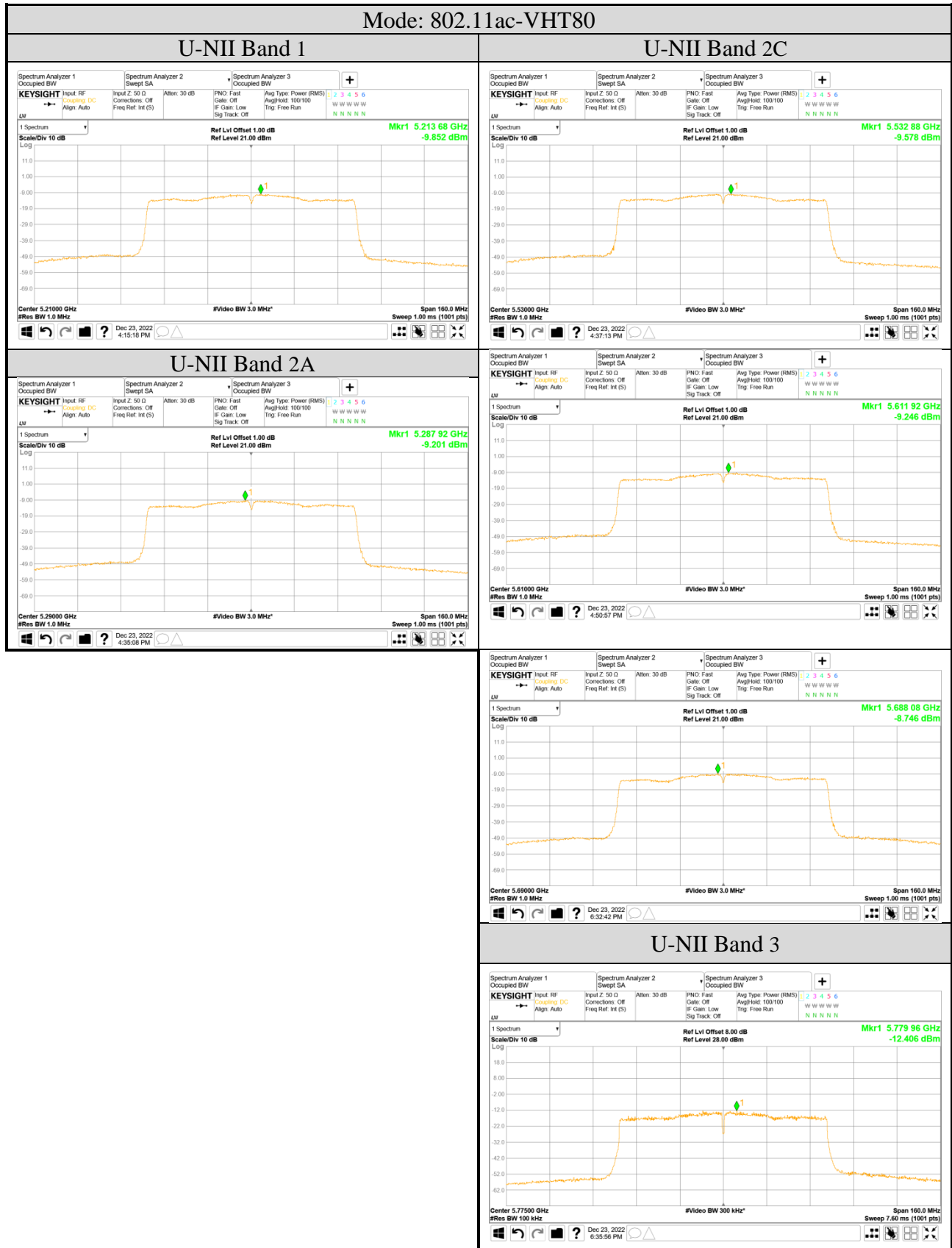
U-NII Band 2C

U-NII Band 3









A.5 FREQUENCY STABILITY

Test Date	2022/12/26	Temp./Hum.	16°C/57%
Cable Loss	---	Tested By	Hua Wu
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	5180	5180.001	0.193
-30	102		5180.004	0.772
	138		5179.98	-3.861
-20	102		5179.97	-5.792
	138		5180.003	0.579
-10	102		5179.97	-5.792
	138		5179.998	-0.386
0	102		5179.983	-3.282
	138		5180.029	5.598
10	102		5180.016	3.089
	138		5180.008	1.544
20	102		5179.998	-0.386
	138		5179.985	-2.896
30	102		5179.97	-5.792
	138		5180.021	4.054
40	102		5179.980	-3.861
	138		5180.029	5.598
50	102		5179.988	-2.317
	138		5180.023	4.440