

A.5 POWER SPECTRAL DENSITY

Test Date	2021/08/05 ~ 13	Temp./Hum.	24°C/53 ~ 62%
Cable Loss	2dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	802.11a: 0dB 802.11n-HT20/40: 3dB 802.11ac-VHT80/160: 3dB 802.11ax-HE20/40/80/160: 3dB		

A.5.1 Power Spectral Density Result

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	I	5180	5.942	11 dBm/MHz
		5200	6.081	
		5240	5.936	
	2A	5260	8.306	
		5300	7.094	
		5320	6.026	
	2C	5500	6.919	
		5580	8.015	
		5700	6.263	
		5720	8.061	
	III ^{Note2}	5745	7.141	30dBm/500 kHz
		5785	7.000	
5825		6.583		

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit	
802.11n-HT20	I	5180	6.084	11 dBm/MHz	
		5200	5.915		
		5240	6.050		
	2A	5260	8.895		
		5300	7.252		
		5320	6.338		
	2C	5500	7.660		
		5580	8.655		
		5700	5.445		
		5720	8.415		
III ^{Note2}	5745	4.276	30dBm/500 kHz		
	5785	3.806			
	5825	3.099			
802.11n-HT40	I	5190	3.613	11 dBm/MHz	
		5230	5.592		
	2A	5270	4.395		
		5310	2.111		
	2C	5510	2.913		
		5550	3.200		
		5670	4.184		
		5710	4.996		
	III ^{Note2}	5755	1.140		30dBm/500 kHz
		5795	1.207		
802.11ac-VHT80	I	5210	1.681	11 dBm/MHz	
	2A	5290	0.513		
		5530	1.221		
		5610	3.465		
	2C	5690	3.737		
		III ^{Note2}	5775		-2.960
802.11ac-VHT160	I/2A	5250	-4.800	11 dBm/MHz	
	2C	5570	-5.504		

Note 1: All results have been included cable loss and Simultaneous Factor.

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

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ax-HE20	I	5180	5.627	11 dBm/MHz
		5200	6.535	
		5240	7.848	
	2A	5260	7.768	
		5300	5.166	
		5320	3.680	
	2C	5500	2.702	
		5580	4.173	
		5700	3.314	
		5720	5.385	
III ^{Note2}	5745	3.596	30dBm/500 kHz	
	5785	4.264		
	5825	4.598		
802.11ax-HE40	I	5190	4.001	11 dBm/MHz
		5230	5.388	
	2A	5270	4.004	
		5310	1.881	
	2C	5510	-1.559	
		5550	-1.186	
		5670	1.604	
		5710	2.529	
	III ^{Note2}	5755	0.083	30dBm/500 kHz
		5795	0.573	
802.11ax-HE80	I	5210	0.835	11 dBm/MHz
	2A	5290	-0.724	
		5530	-4.076	
	2C	5610	-0.628	
		5690	0.730	
	III ^{Note2}	5775	-2.938	30dBm/500 kHz
802.11ax-HE160	I/2A	5250	-6.550	11 dBm/MHz
	2C	5570	-10.267	

Note 1: All results have been included cable loss and Simultaneous Factor.

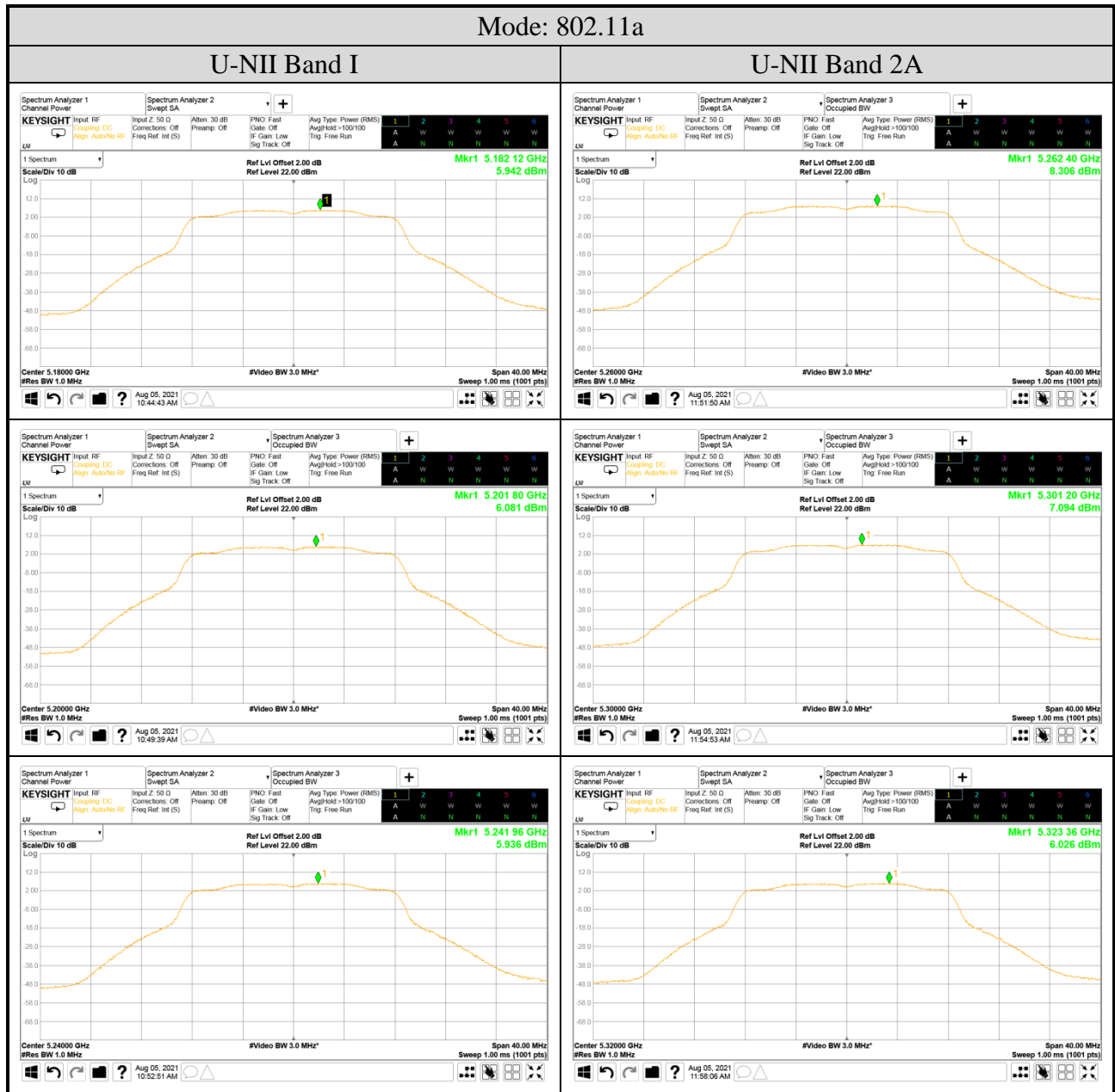
Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

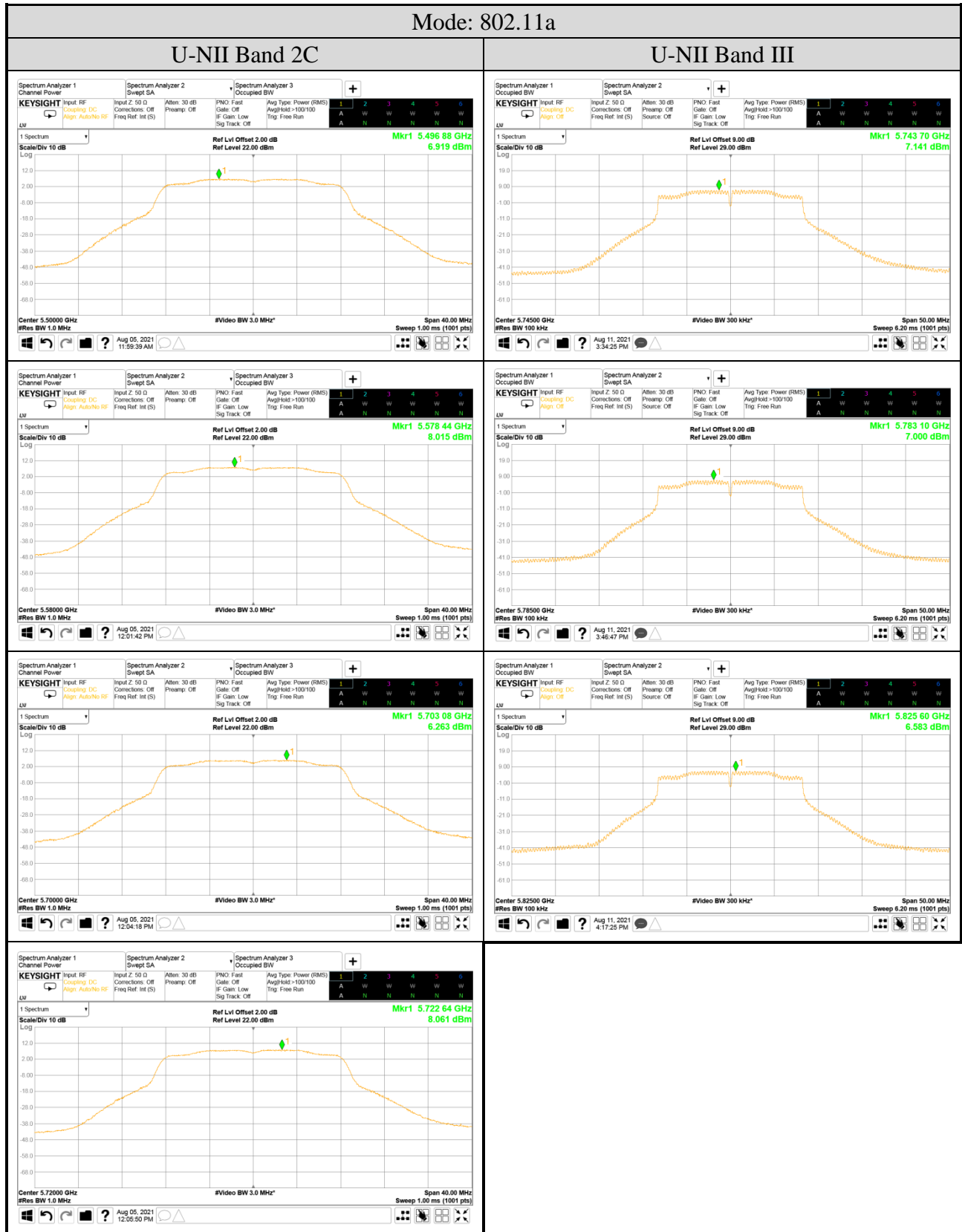
Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm)	Limit	
802.11ax-HE20	I	5180	26/0	10.581	11 dBm/MHz	
			52/37	10.547		
			106/53	10.523		
	2A	5320	26/8	10.028		
			52/40	8.622		
			106/54	9.088		
	2C	5500	26/0	10.241		
			52/37	10.416		
			106/53	8.945		
		5700	26/8	10.161		
			52/40	10.015		
			106/54	8.068		
	III ^{Note2}	5745	26/0	8.771		30dBm/500 kHz
			52/37	8.967		
			106/53	8.185		
5825		26/8	10.532			
		52/40	10.3337			
		106/54	7.229			
802.11ax-HE40	I	5190	242/61	7.222	11 dBm/MHz	
	2A	5310	242/62	5.880		
	2C	5510	242/61	5.510		
		5670	242/62	3.062		
	III ^{Note2}	5755	242/61	4.989	30dBm/500 kHz	
		5795	242/62	5.277		
802.11ax-HE80	I	5210	484/65	4.062	11 dBm/MHz	
	2A	5290	484/66	2.378		
	2C	5530	484/65	3.580		
		5610	484/66	-4.329		
	III ^{Note2}	5775	484/65	-1.019	30dBm/500 kHz	
			484/66	0.266		
802.11ax-HE160	I/2A	5250	996/67	0.120	11 dBm/MHz	
			996/S67	-0.419		
	2C	5570	996/67	-0.271		
			996/S67	-0.145		

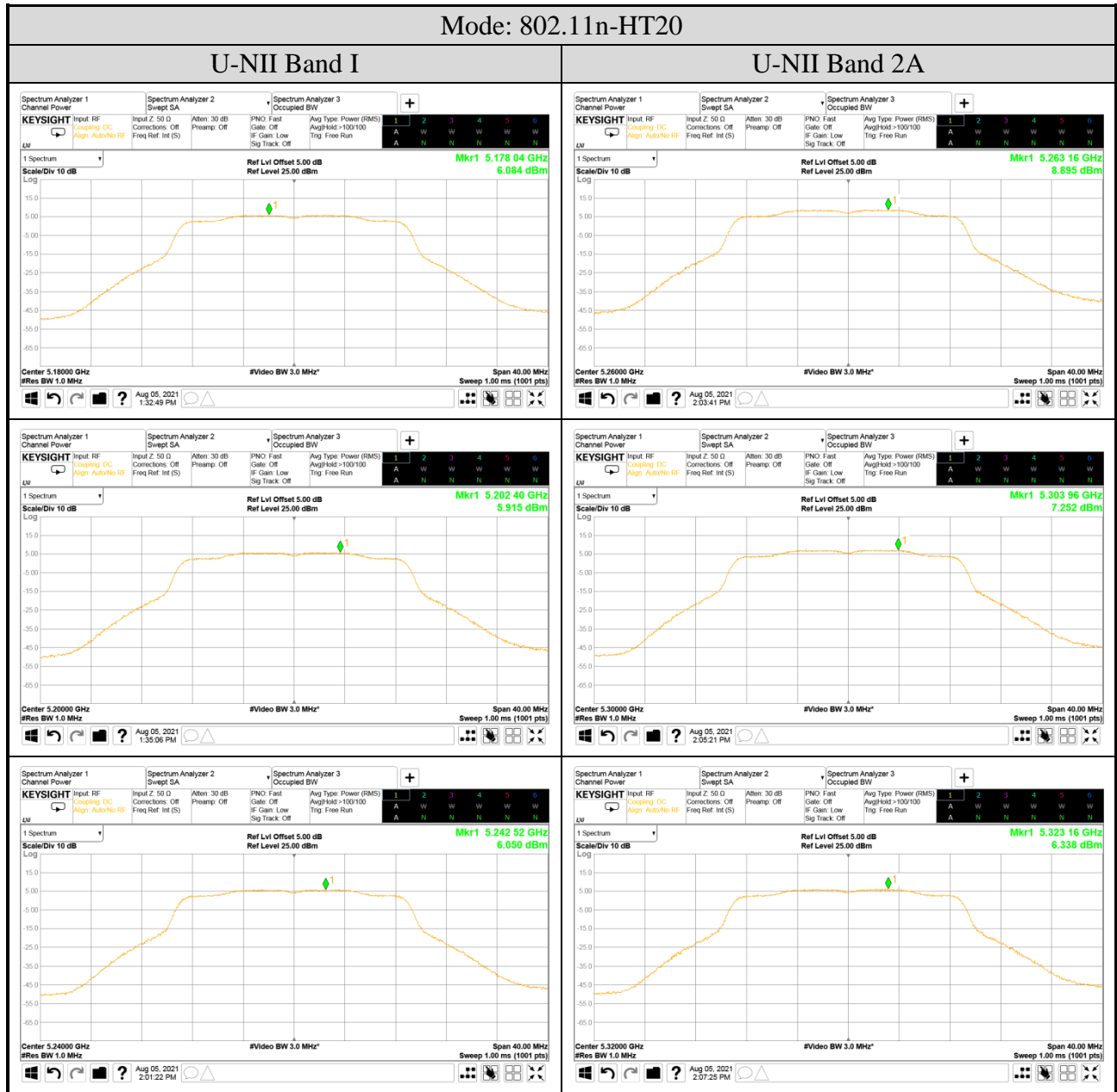
Note 1: All results have been included cable loss and Simultaneous Factor.

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

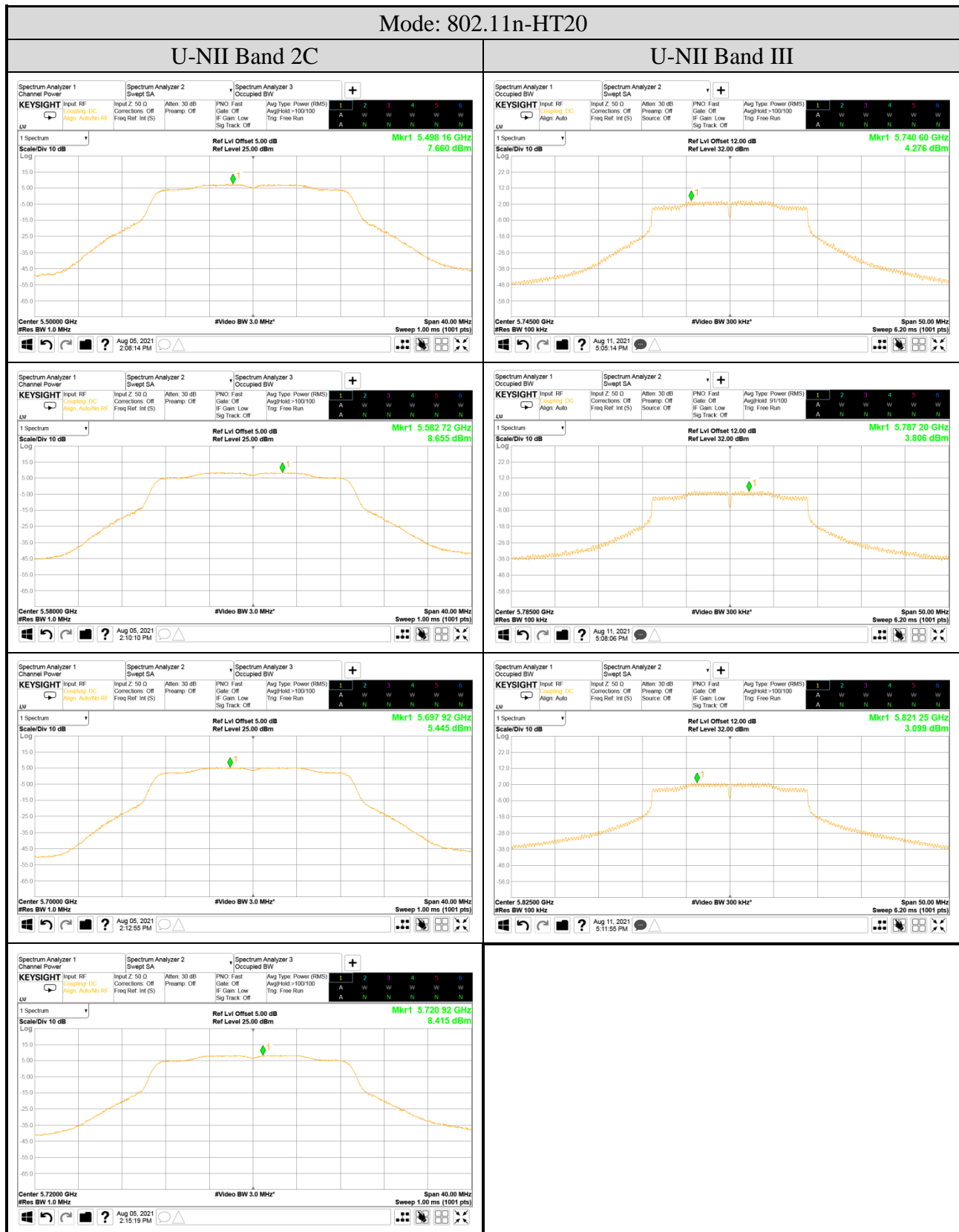
A.5.2 Measurement Plots

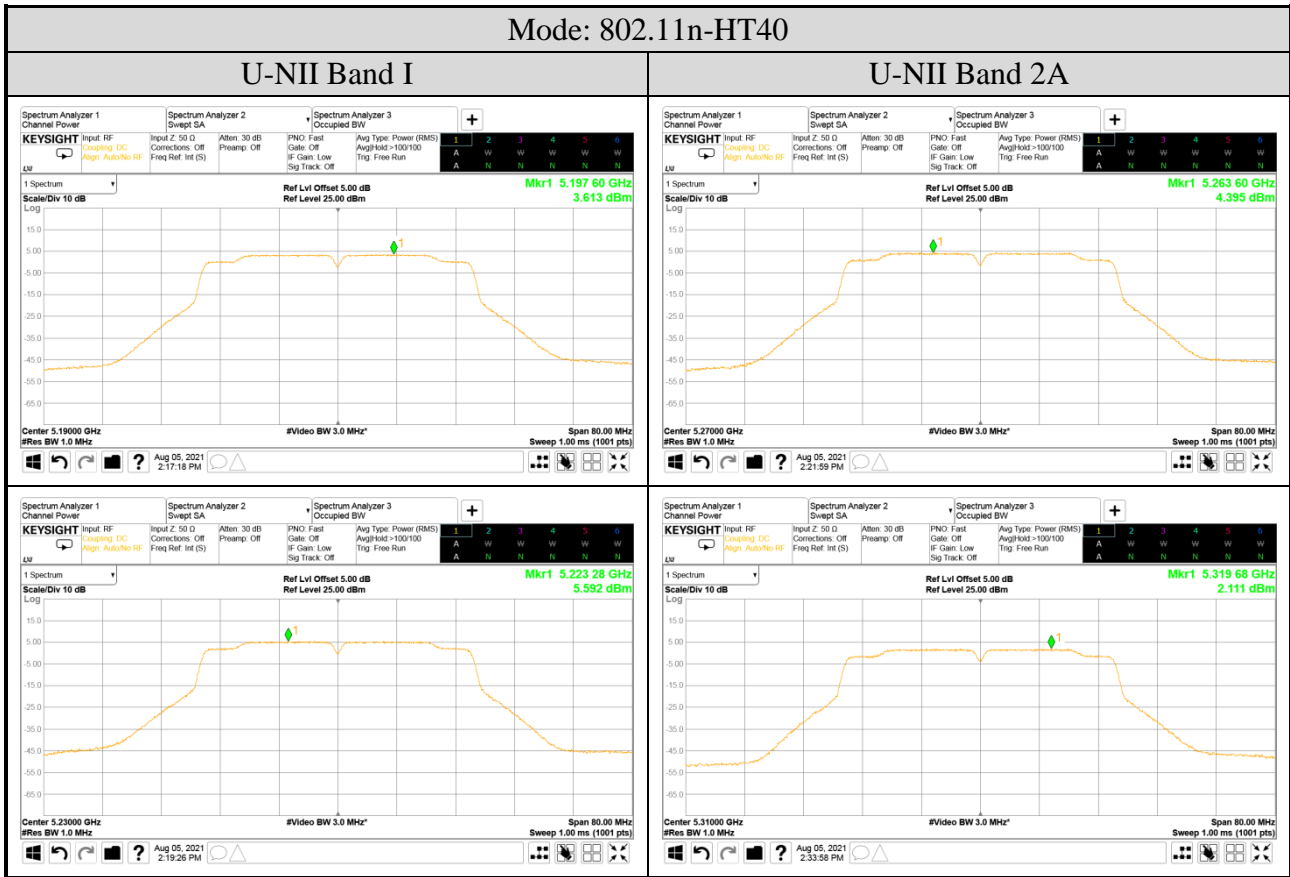






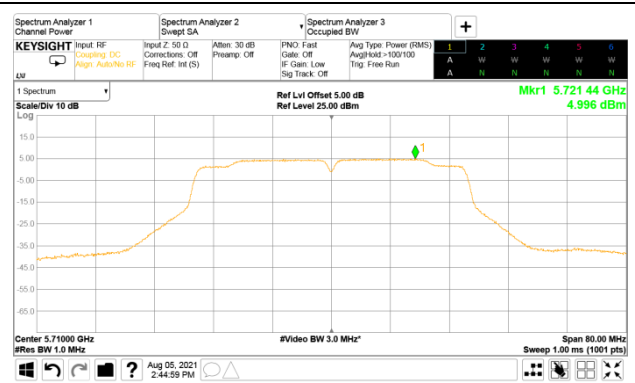
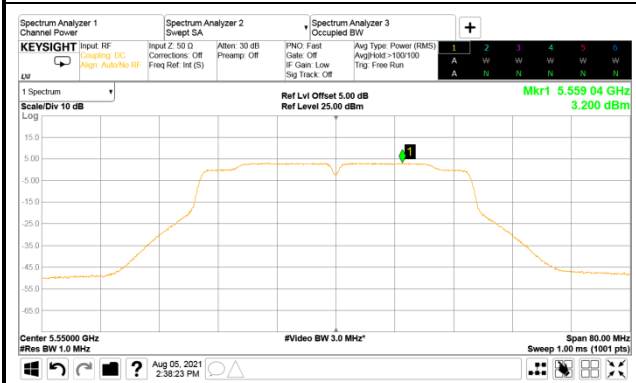
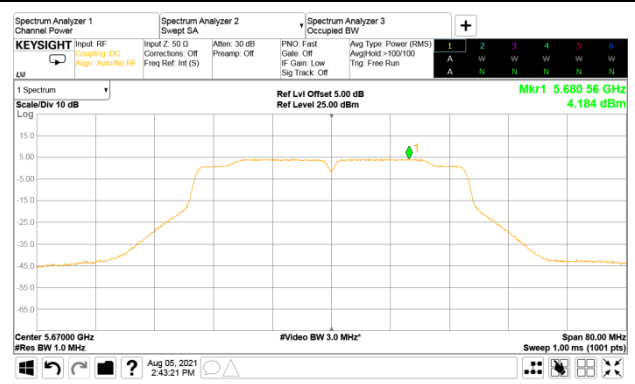
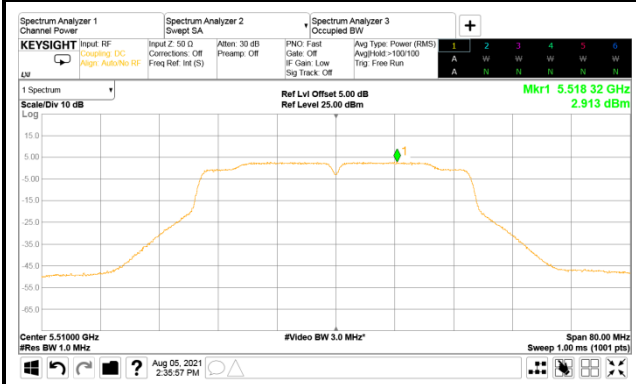
Mode: 802.11n-HT20





Mode: 802.11n-HT40

U-NII Band 2C



U-NII Band III

