

A.5. POWER SPECTRAL DENSITY

Test Date	2021/09/09~10/04	Temp./Hum.	23~25℃/49~56%
Cable Loss	1.0dB	Tested By	Kuper Hsu
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	7.281	11 dBm/MHz
		5200	8.241	
		5240	7.968	
	2A	5260	7.717	
		5300	7.696	
		5320	6.681	
	2C	5500	7.917	
		5580	8.473	
		5700	7.059	
		5720	9.026	
	III ^{Note2}	5745	6.701	30dBm/500 kHz
		5785	6.854	
		5825	7.265	

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

Note 2: BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	I	5180	7.523	11 dBm/MHz
		5200	7.575	
		5240	7.445	
	2A	5260	7.509	
		5300	7.510	
		5320	6.445	
	2C	5500	7.752	30dBm/500 kHz
		5580	8.663	
		5700	5.884	
		5720	8.853	
	III ^{Note2}	5745	6.291	
		5785	6.700	
		5825	6.544	
802.11n-HT40	I	5190	3.996	11 dBm/MHz
		5230	4.341	
	2A	5270	3.879	
		5310	2.520	
	2C	5510	3.722	
		5550	3.750	
		5670	5.247	
		5710	5.771	
	III ^{Note2}	5755	3.525	30dBm/500 kHz
		5795	3.664	
802.11ac-VHT80	I	5210	3.144	11 dBm/MHz
	2A	5290	1.731	
	2C	5530	1.880	
		5610	4.174	
	III ^{Note2}	5690	4.459	30dBm/500 kHz
		5775	0.230	
802.11ac-VHT160	I/2A	5250	-4.009	11 dBm/MHz
	2C	5570	-4.047	

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ax-HE20	I	5180	6.816	11 dBm/MHz
		5200	7.362	
		5240	7.068	
	2A	5260	7.118	
		5300	7.019	
		5320	6.267	
	2C	5500	7.167	30dBm/500 kHz
		5580	8.622	
		5700	5.861	
		5720	8.659	
	III ^{Note2}	5745	4.973	
		5785	5.664	
		5825	5.632	
802.11ax-HE40	I	5190	4.194	11 dBm/MHz
		5230	5.700	
	2A	5270	4.686	
		5310	2.585	
	2C	5510	3.319	
		5550	3.909	
		5670	4.390	
		5710	5.241	
	III ^{Note2}	5755	2.228	30dBm/500 kHz
		5795	2.606	
802.11ax-HE80	I	5210	2.268	11 dBm/MHz
	2A	5290	1.745	
	2C	5530	2.360	
		5610	3.904	
	III ^{Note2}	5690	4.068	30dBm/500 kHz
		5775	-0.609	
802.11ax-HE160	I/2A	5250	-4.556	11 dBm/MHz
	2C	5570	-5.118	

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

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Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm)	Limit
802.11ax-HE20	I	5180	26/0	10.645	11 dBm/MHz
			52/37	10.509	
			106/53	10.246	
	2A	5320	26/8	10.617	
			52/40	9.239	
			106/54	9.820	
	2C	5500	26/0	10.664	
			52/37	10.208	
			106/53	10.375	
		5700	26/8	10.181	
			52/40	9.786	
			106/54	8.520	
	III ^{Note2}	5745	26/0	7.130	30dBm/500 kHz
			52/37	8.184	
			106/53	8.078	
		5825	26/8	10.776	
			52/40	9.898	
			106/54	7.645	
802.11ax-HE40	I	5190	242/61	7.449	11 dBm/MHz
	2A	5310	242/62	5.751	
	2C	5510	242/61	5.109	
		5670	242/62	7..773	
	III ^{Note2}	5755	242/61	5.426	30dBm/500 kHz
		5795	242/62	5.050	
802.11ax-HE80	I	5210	484/65	3.796	11 dBm/MHz
	2A	5290	484/66	0.163	
	2C	5530	484/65	2.504	
		5610	484/66	3.799	
	III ^{Note2}	5775	484/65	0.655	30dBm/500 kHz
			484/66	0.821	
802.11ax-HE160	I/2A	5250	996/67	-2.991	11 dBm/MHz
			996/S67	-3.416	
	2C	5570	996/67	-3.121	
			996/S67	-2.540	

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

Note 2: BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

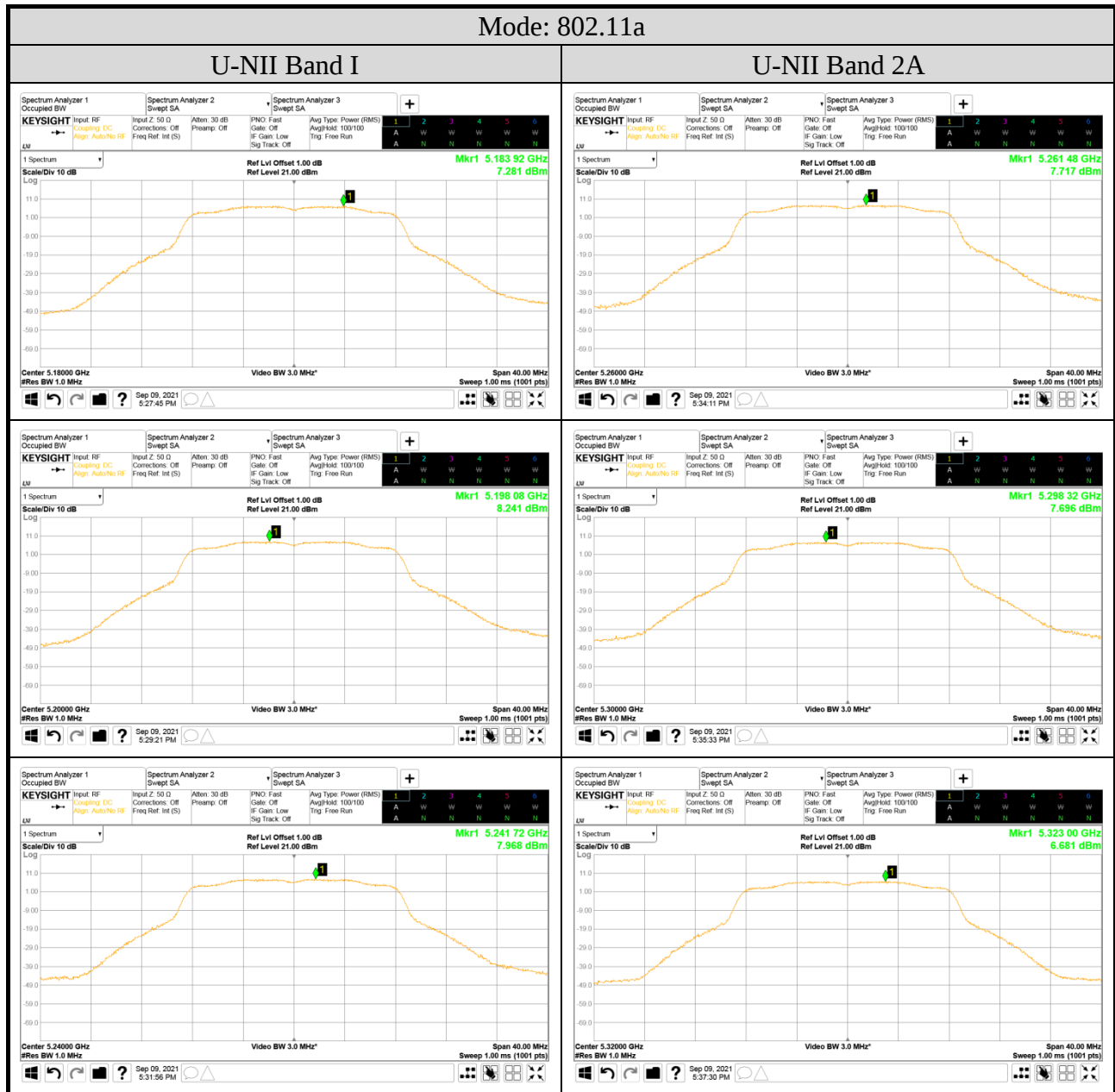
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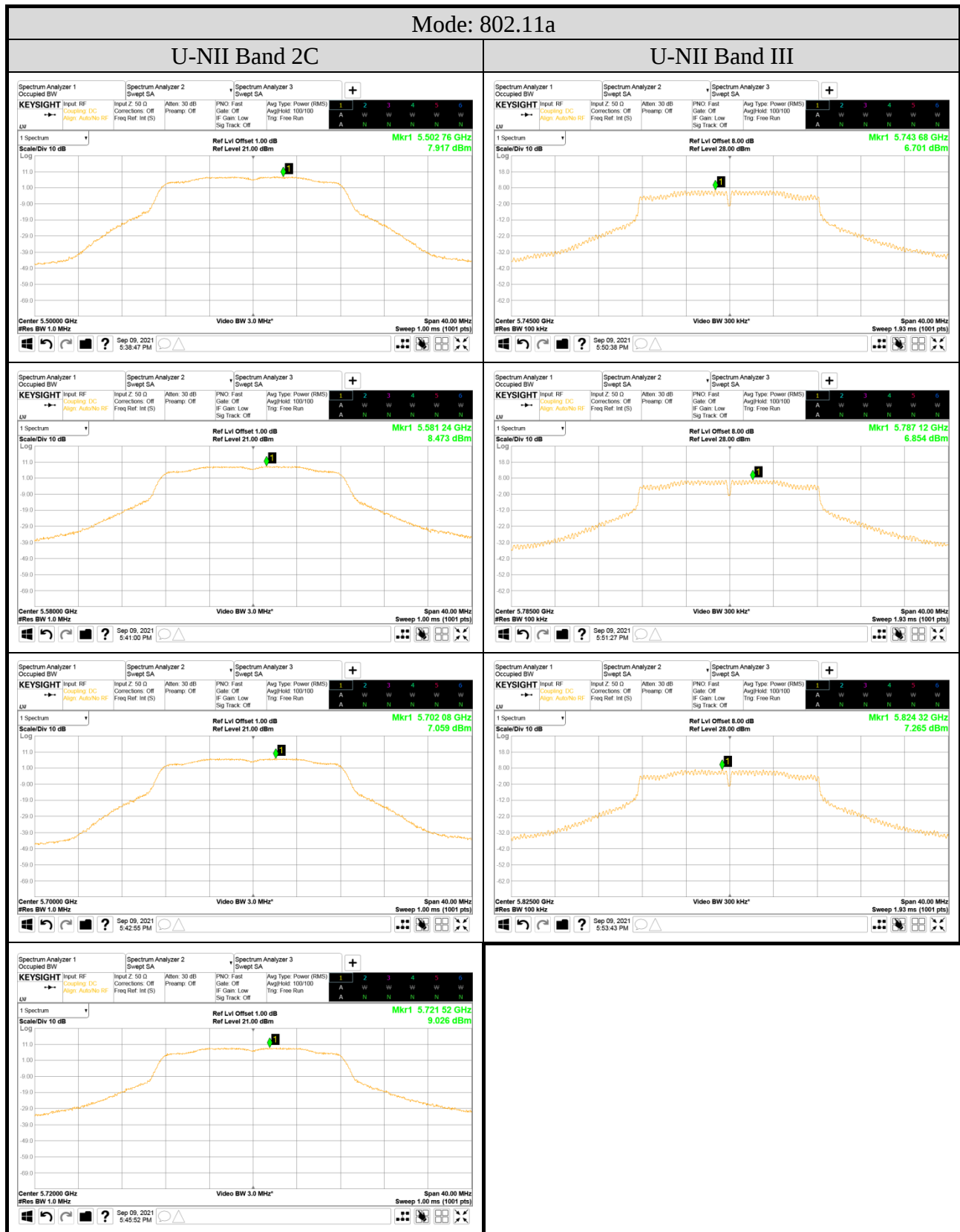
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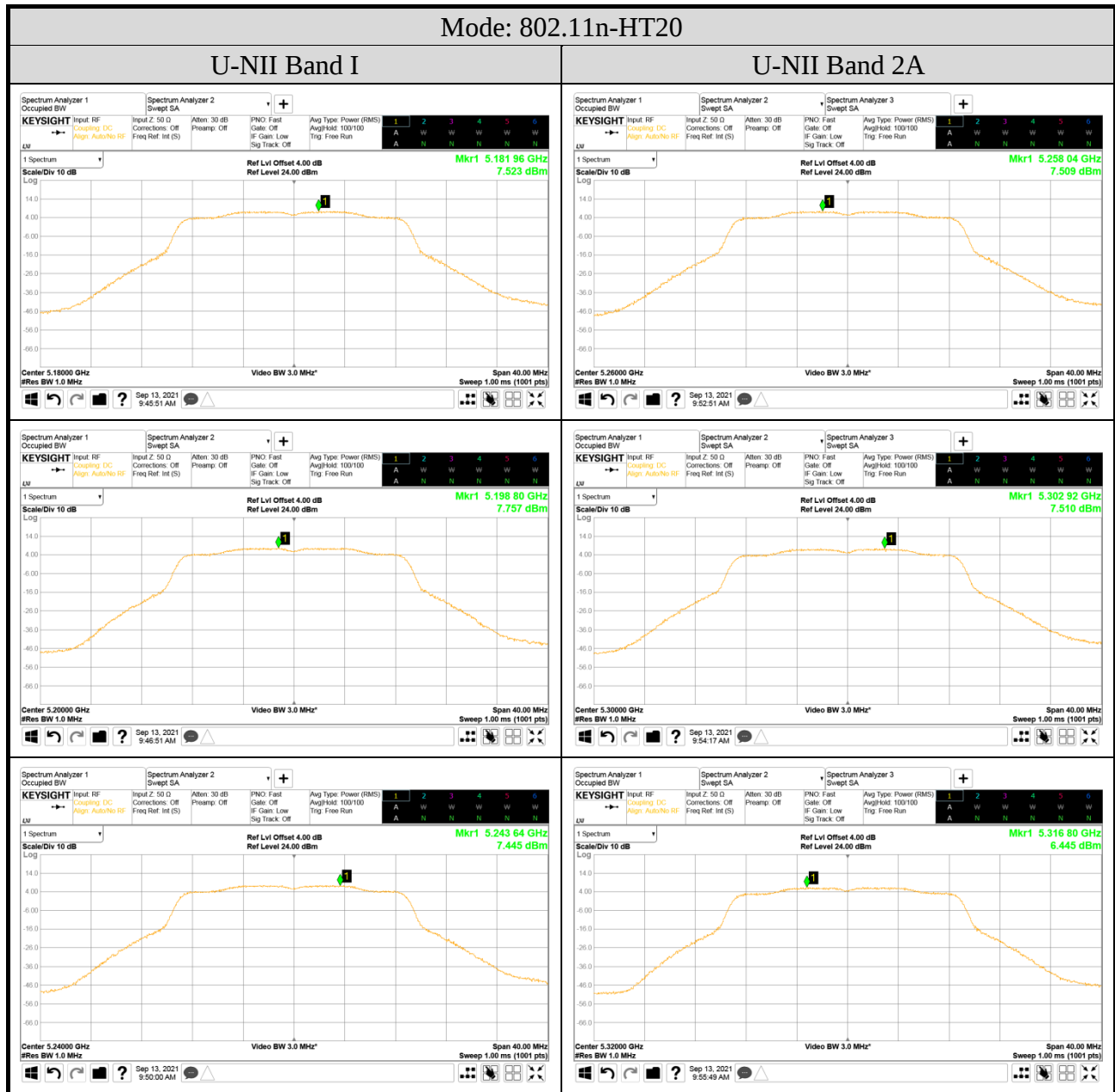
A.5.2 Measurement Plots





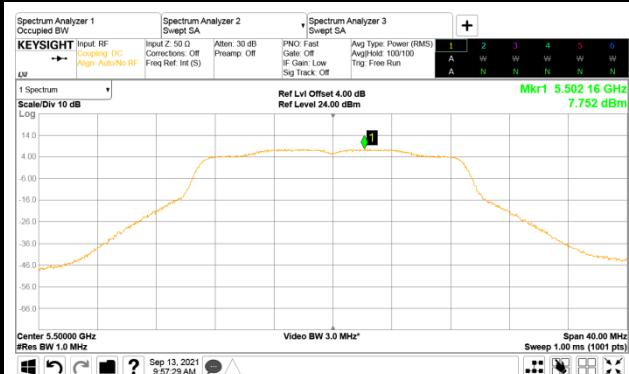
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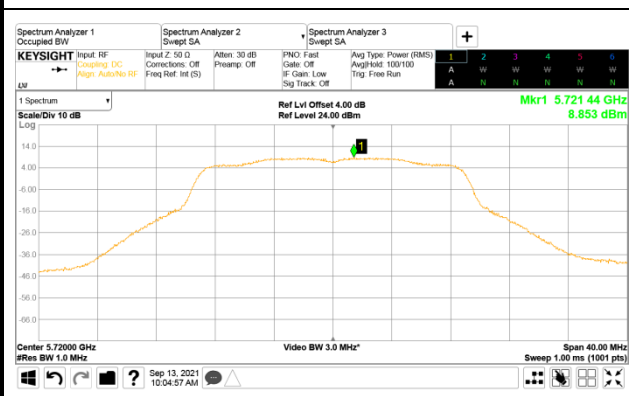
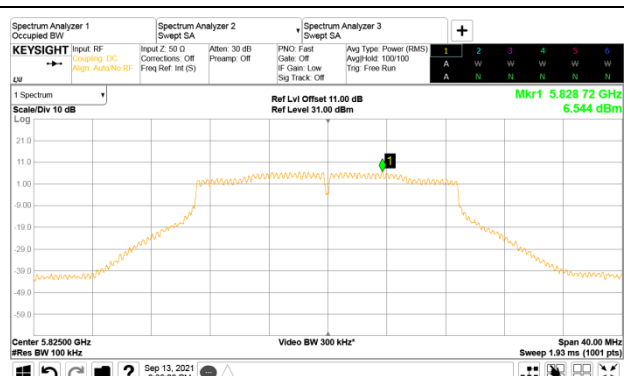
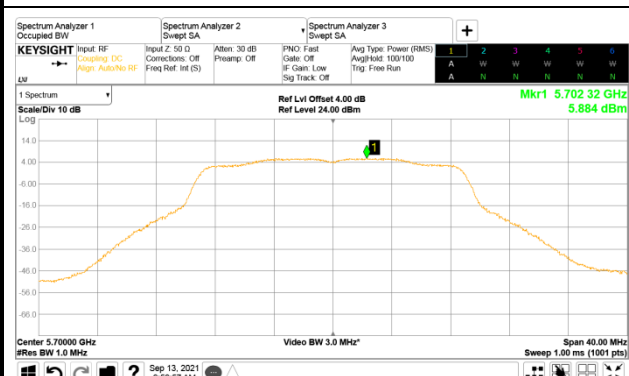
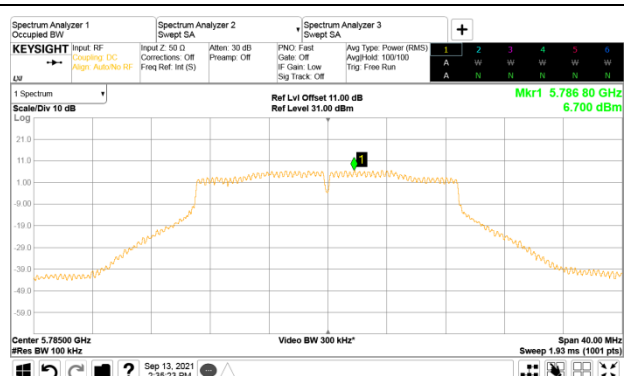
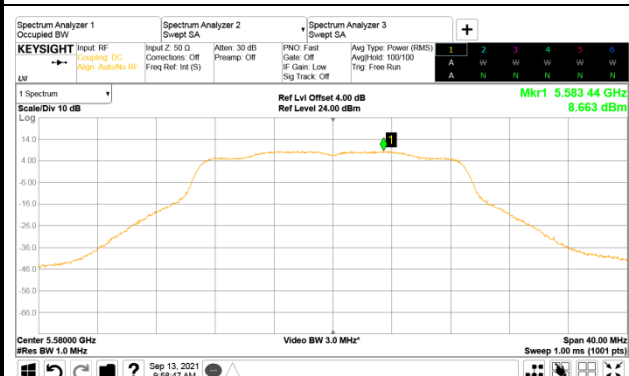
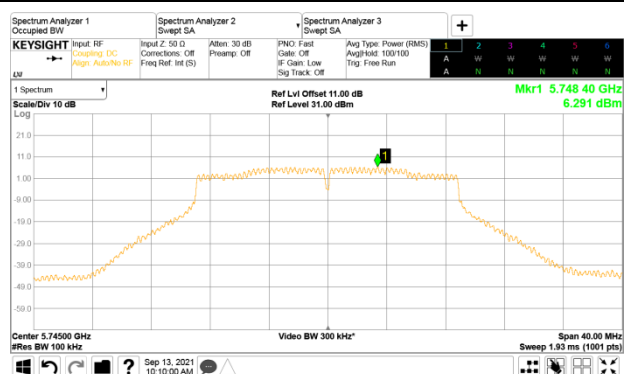


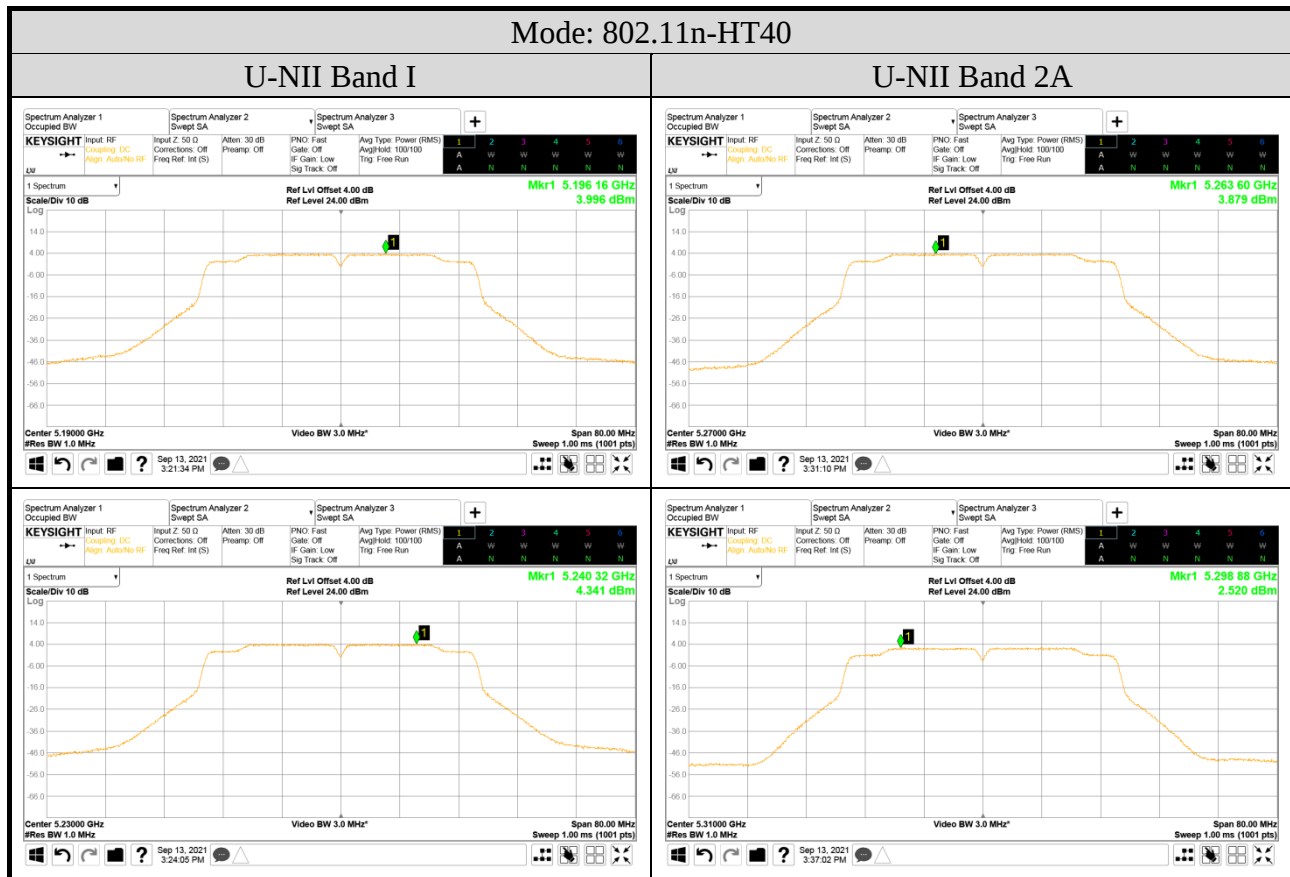
Mode: 802.11n-HT20

U-NII Band 2C



U-NII Band III





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