

A.5 POWER SPECTRAL DENSITY

Test Date	2020/03/18~20	Temp./Hum.	21~24°C/55~61%
Cable Loss	5.3dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test SKU	SKU #1
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		802.11a: 0 802.11n-HT20/40: 3 802.11ac-VHT80/160: 3 802.11ax-HE80/160: 3	

A.5.1 Power Spectral Density Result

Mode	Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	NII-I	5180	4.111	11 dBm/MHz
		5200	5.943	
		5240	7.218	
	NII-2A	5260	6.615	
		5300	5.052	
		5320	4.519	
	NII-2C	5500	4.981	
		5580	6.222	
		5700	5.245	
		5720	6.776	
	NII-III ^{Note2}	5745	5.530	30dBm/500 kHz
		5785	5.928	
		5825	6.394	

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	Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	NII-I	5180	4.766	11 dBm/MHz
		5200	5.746	
		5240	6.103	
	NII-2A	5260	6.562	
		5300	4.792	
		5320	4.063	
	NII-2C	5500	4.726	
		5580	7.350	
		5700	4.164	
		5720	6.710	
	NII-III ^{Note2}	5745	5.064	30dBm/500 kHz
		5785	5.390	
		5825	5.334	
802.11n-HT40	NII-I	5190	2.310	11 dBm/MHz
		5230	4.965	
	NII-2A	5270	1.837	
		5310	1.053	
	NII-2C	5510	2.216	
		5550	2.050	
		5670	4.092	
		5710	3.832	
	NII-III ^{Note2}	5755	2.671	30dBm/500 kHz
		5795	2.349	
802.11ac-VHT80	NII-I	5210	1.646	11 dBm/MHz
	NII-2A	5290	-0.610	
	NII-2C	5530	0.749	
		5610	2.809	
		5690	2.787	
	NII-III ^{Note2}	5775	-1.189	30dBm/500 kHz
802.11ac-VHT160	NII-I/NII-2A	5250	-4.607	11 dBm/MHz
	NII-2C	5570	-4.705	

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	Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ax-HE20	NII-I	5180	6.120	11 dBm/MHz
		5200	5.730	
		5240	7.058	
	NII-2A	5260	6.356	
		5300	6.129	
		5320	5.461	
	NII-2C	5500	4.377	
		5580	6.847	
		5700	3.319	
		5720	3.491	
	NII-III ^{Note2}	5745	1.347	30dBm/500 kHz
		5785	1.806	
		5825	1.675	
802.11ax-HE40	NII-I	5190	1.366	11 dBm/MHz
		5230	3.626	
	NII-2A	5270	1.332	
		5310	-0.866	
	NII-2C	5510	-0.170	
		5550	1.422	
		5670	2.985	
		5710	2.850	
	NII-III ^{Note2}	5755	1.409	30dBm/500 kHz
		5795	1.276	
802.11ax-HE80	NII-I	5210	0.725	11 dBm/MHz
	NII-2A	5290	-1.213	
	NII-2C	5530	0.533	
		5610	2.619	
		5690	2.472	
	NII-III ^{Note2}	5775	-2.476	30dBm/500 kHz
802.11ax-HE160	NII-I/NII-2A	5250	-4.484	11 dBm/MHz
	NII-2C	5570	-5.199	

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.

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Mode	Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm)	Limit
802.11ax-HE20	NII-I	5180	26/10	9.104	11 dBm/MHz
			52/37	9.044	
			106/53	6.120	
	NII-2A	5320	26/8	8.805	
			52/40	6.413	
			106/54	6.505	
	NII-2C	5500	26/10	9.430	
			52/37	9.543	
			106/53	7.065	
		5700	26/8	10.686	
			52/40	11.112	
			106/54	9.967	
	NII-III ^{Note2}	5745	26/10	7.931	30dBm/500 kHz
			52/37	8.605	
			106/53	6.881	
		5825	26/8	12.981	
			52/40	9.987	
			106/54	7.044	
802.11ax-HE40	NII-I	5190	242/61	4.975	11 dBm/MHz
	NII-2A	5310	242/62	3.005	
	NII-2C	5510	242/61	2.980	
		5670	242/62	7.225	
	NII-III ^{Note2}	5755	242/61	4.993	30dBm/500 kHz
		5795	242/62	4.672	
802.11ax-HE80	I	5210	484/65	1.440	11 dBm/MHz
	NII-2A	5290	484/66	-0.063	
	NII-2C	5530	484/65	1.813	
		5610	484/66	5.627	
	NII-III ^{Note2}	5775	484/65	2.937	30dBm/500 kHz
			484/66	3.396	
802.11ax-HE160	NII-I/ NII-2A	5250	996/67	-4.119	11 dBm/MHz
			996/S67	-4.761	
	NII-2C	5570	996/67	-2.859	
			996/S67	-3.350	

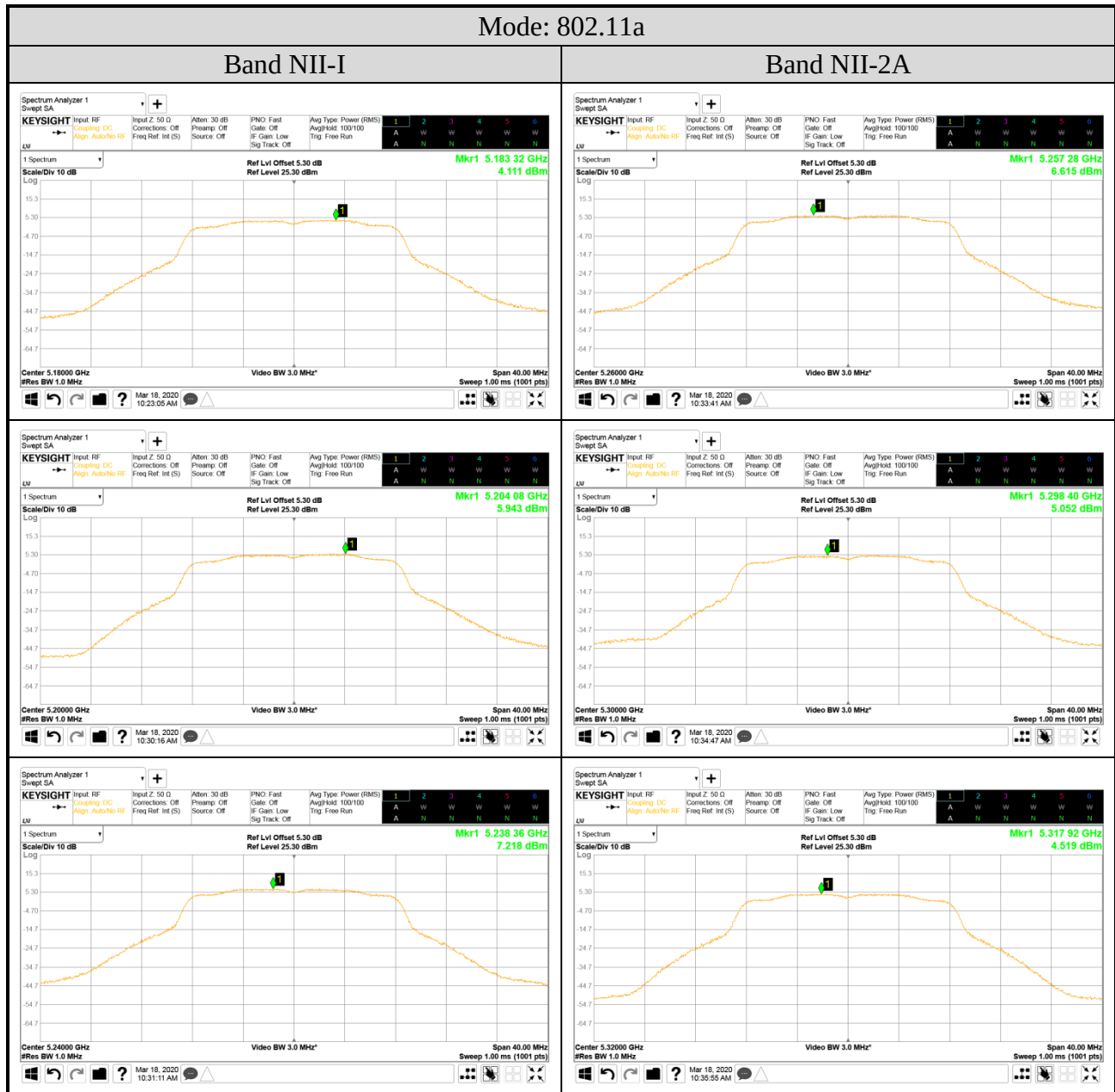
Note 1: All results have been included cable loss and Simultaneous Factor.

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

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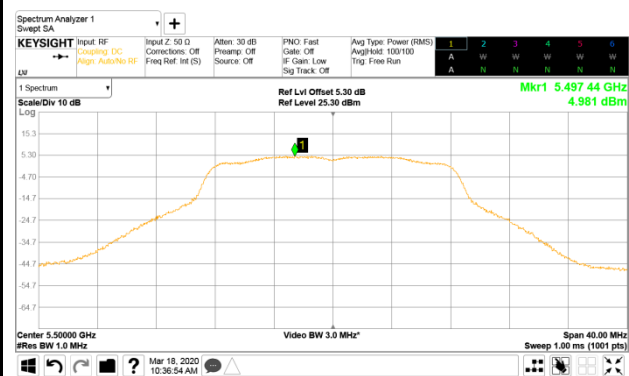
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A.5.2 Measurement Plots

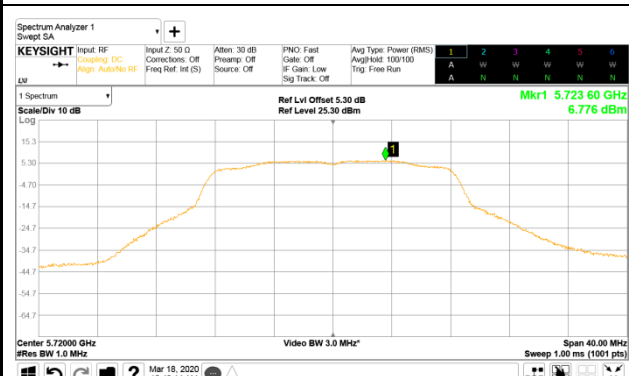
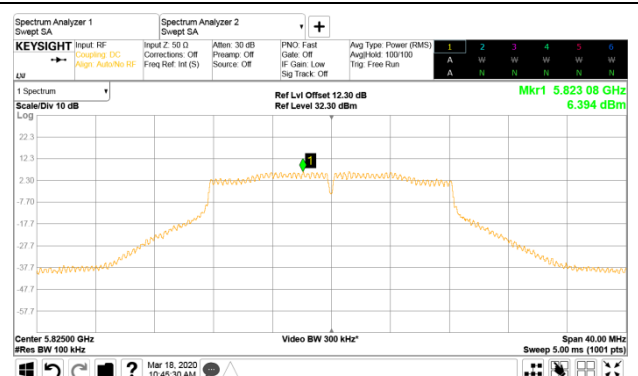
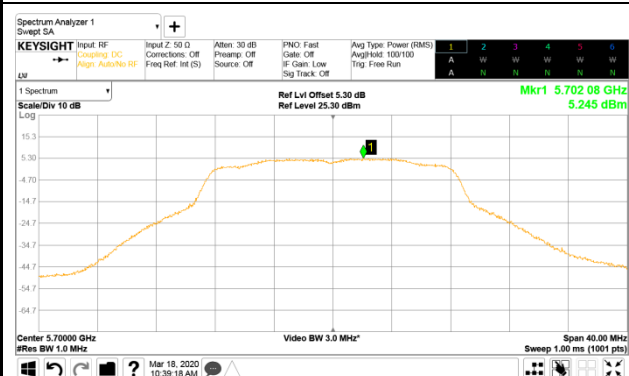
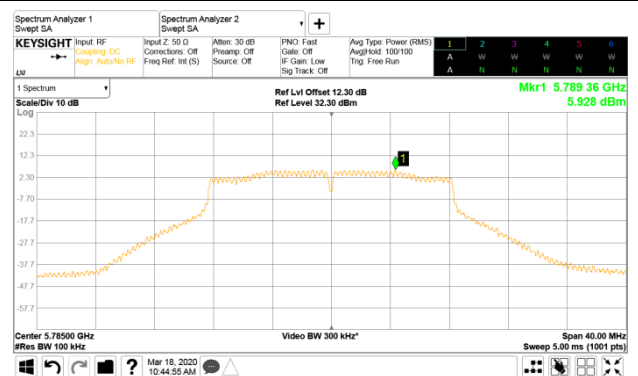
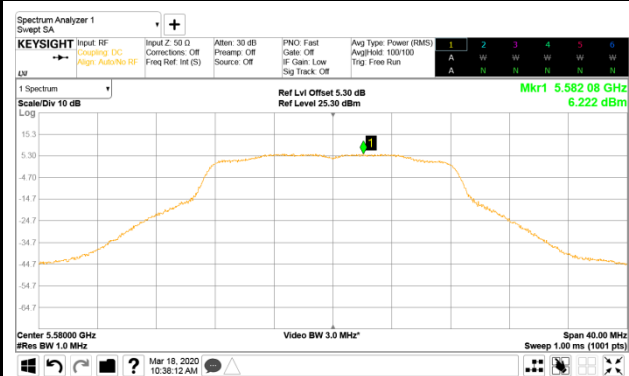
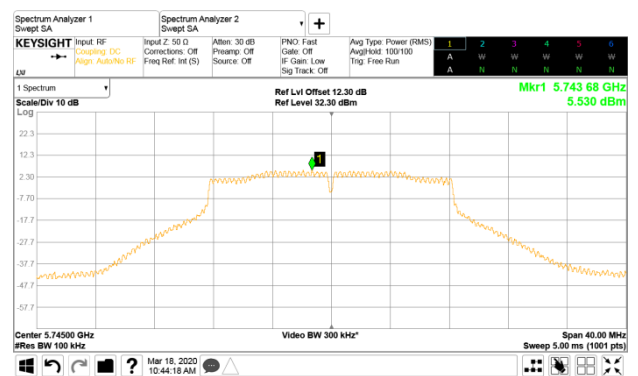


Mode: 802.11a

Band NII-2C

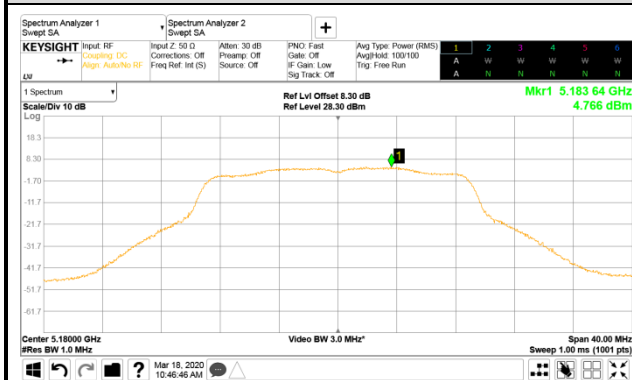


Band NII-III

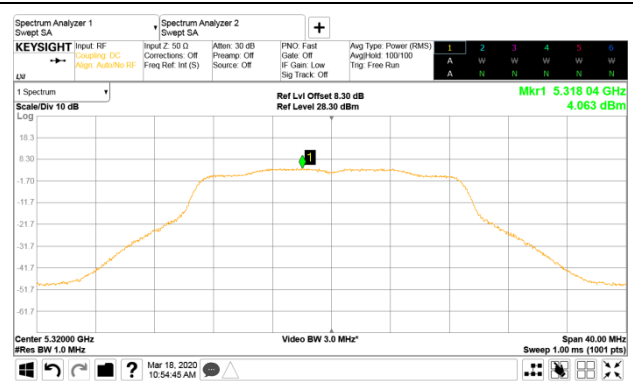
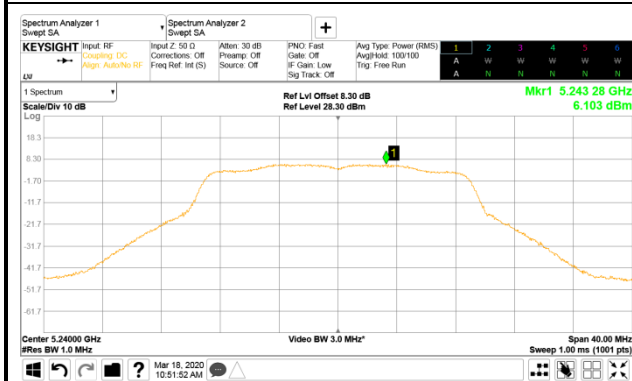
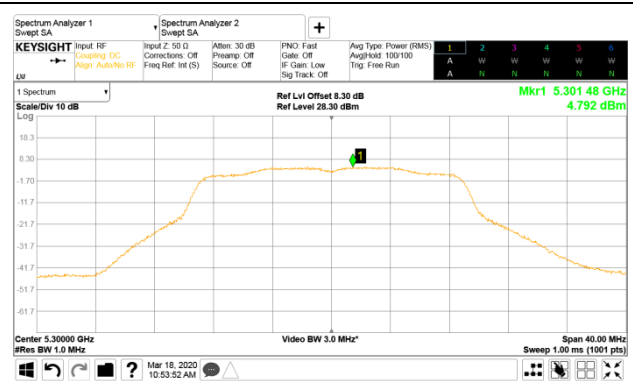
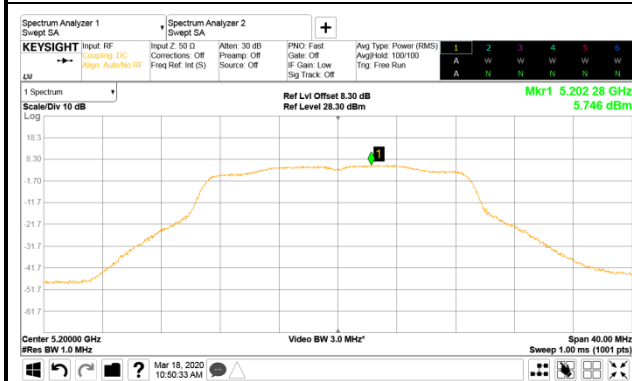
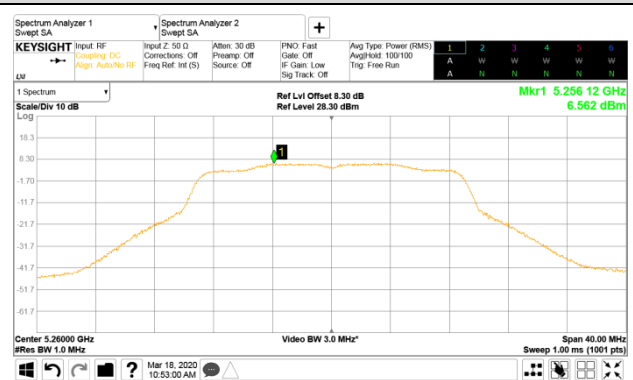


Mode: 802.11n-HT20

Band NII-1

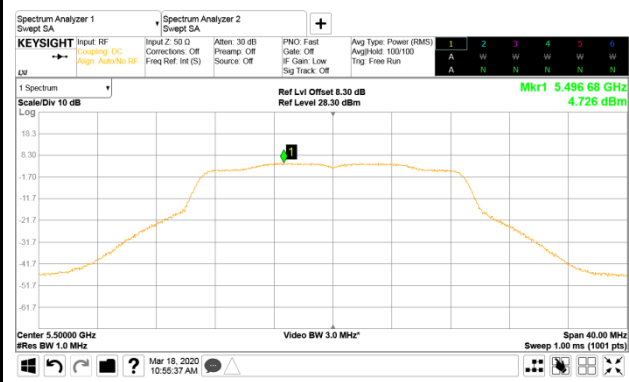


Band NII-2A

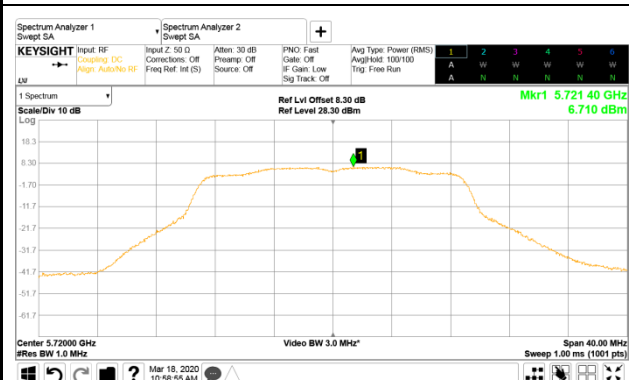
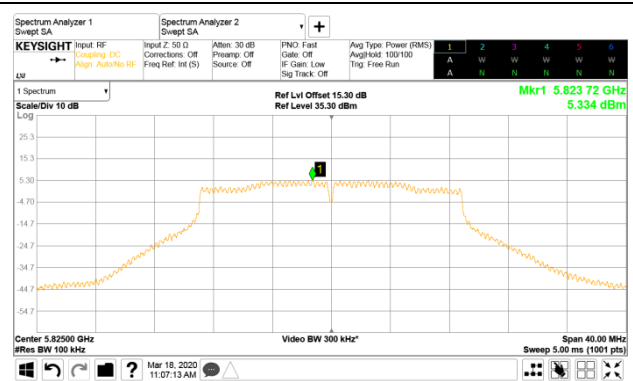
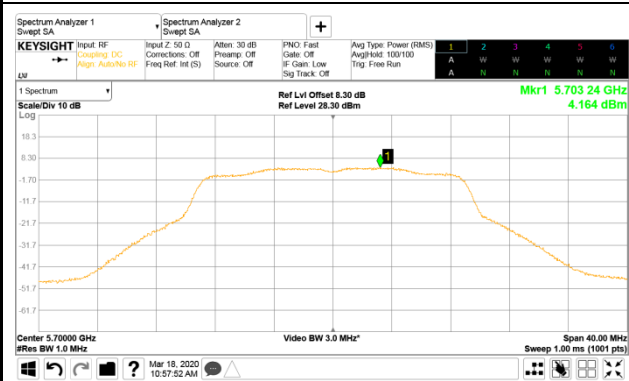
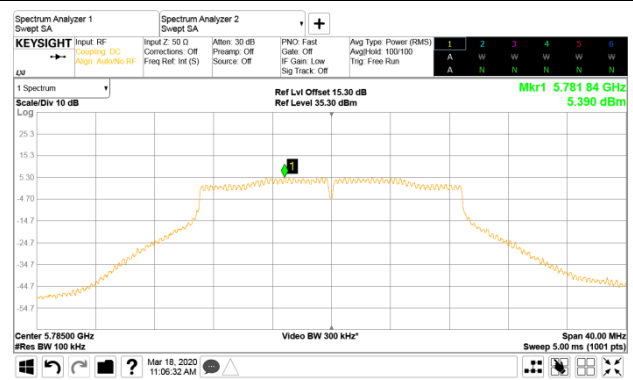
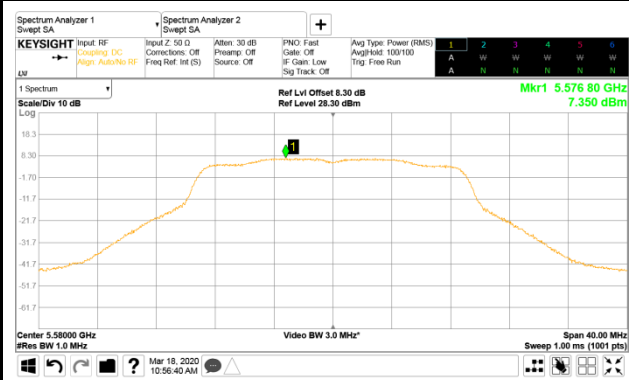
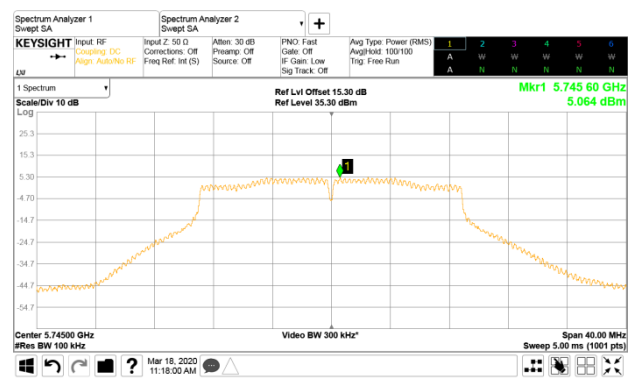


Mode: 802.11n-HT20

Band NII-2C

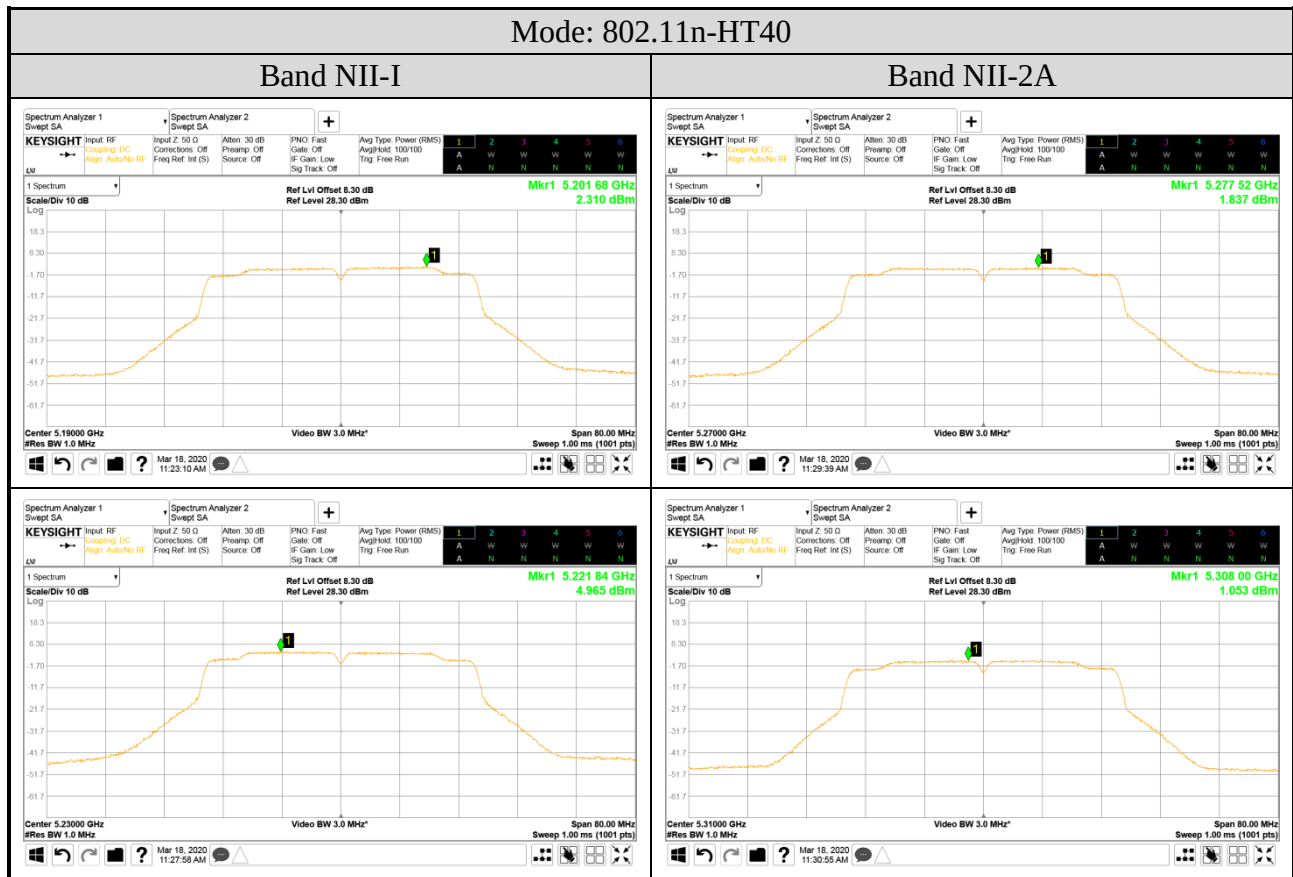


Band NII-III



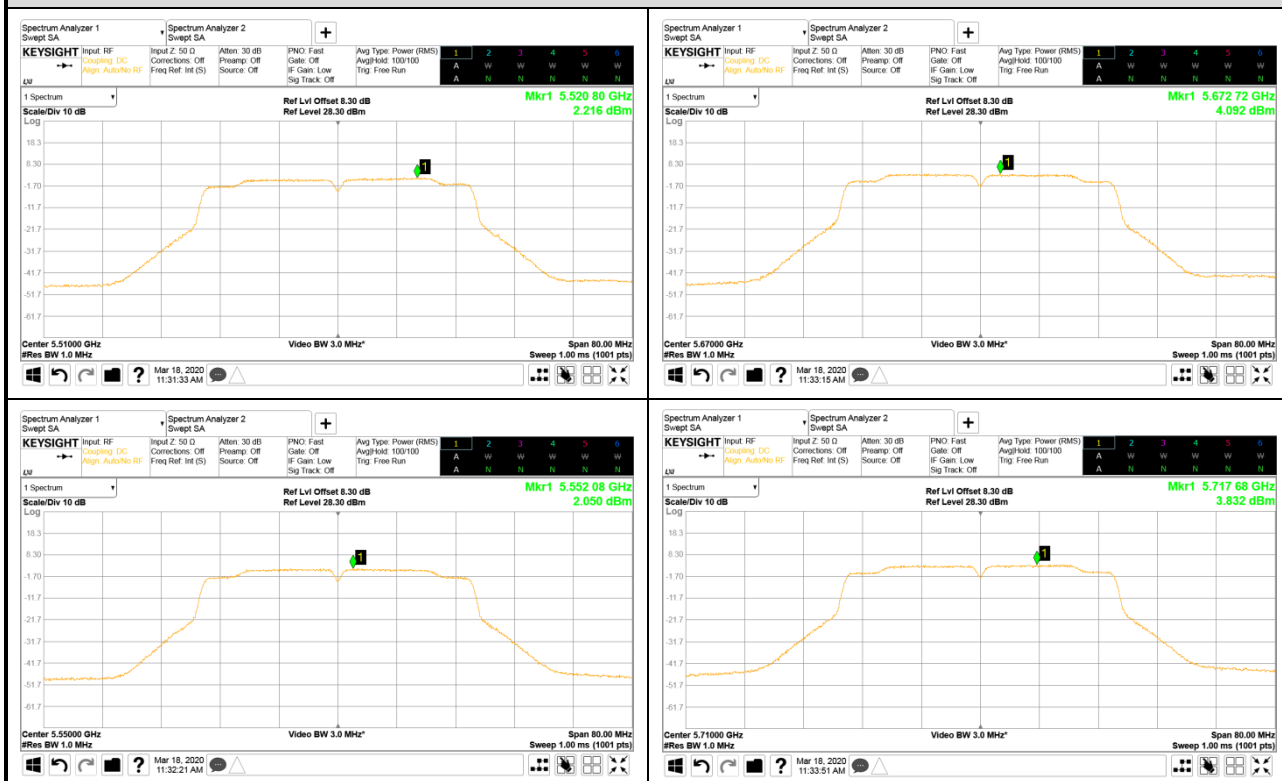
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Mode: 802.11n-HT40

Band NII-2C



Band NII-III

