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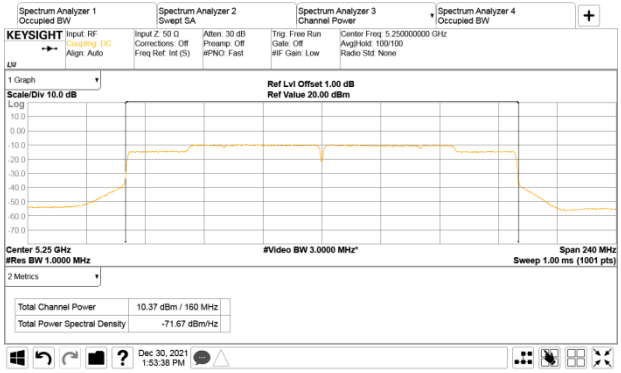
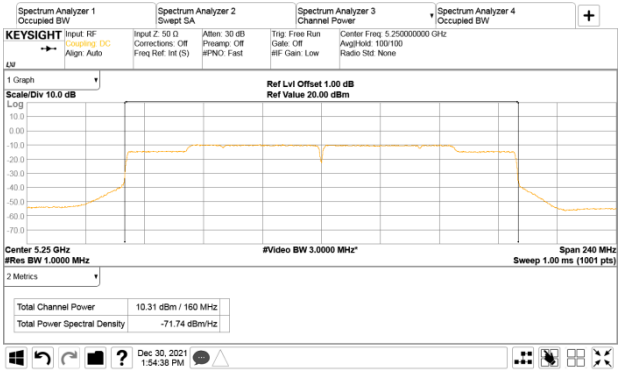
802.11ax-HE160	
U-NII Band I/2A	
Chain 0	Chain 1
	
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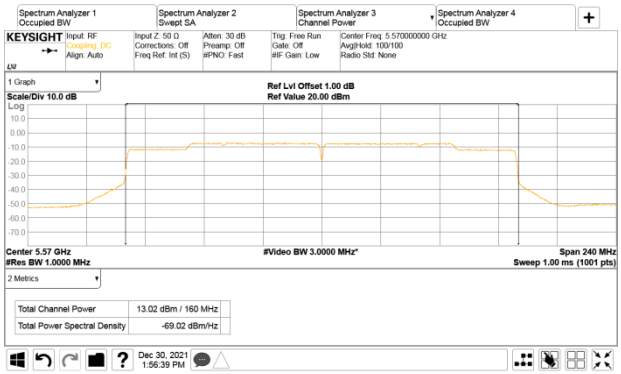
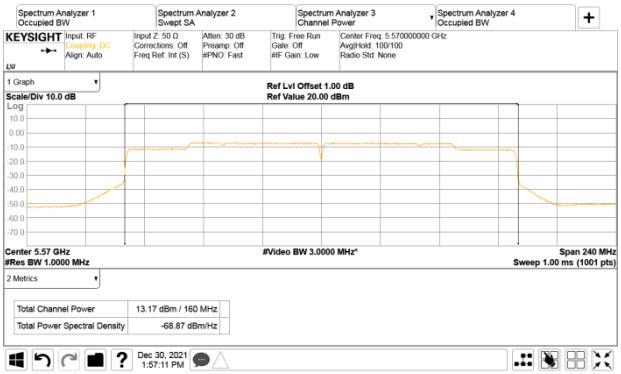
Chain 0	Chain 1
	

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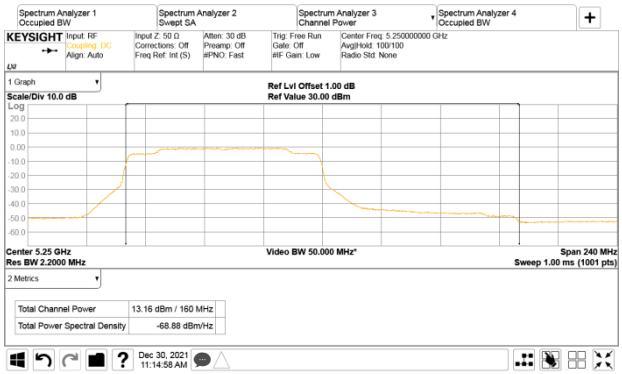
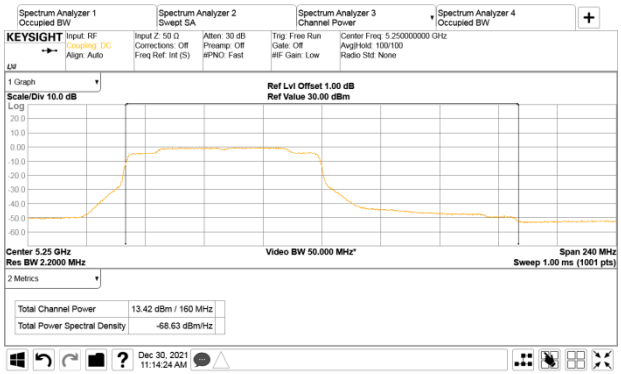
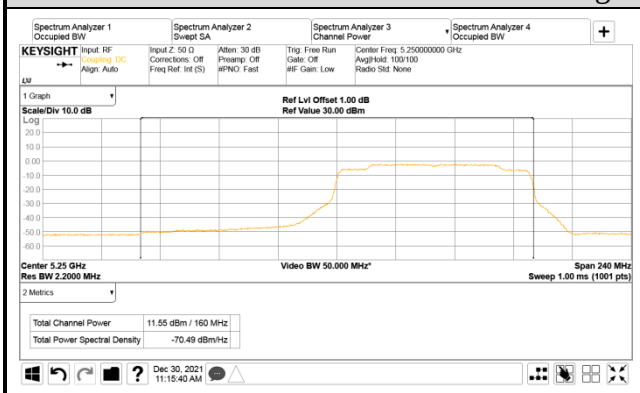
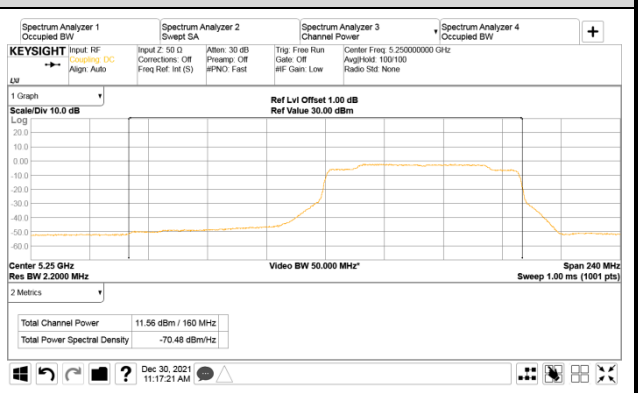
802.11ax-HE160	
U-NII Band I/2A	
Chain 0	Chain 1
5250MHz	
RU Configuration: 996/67	
	
RU Configuration: 996/S67	
	

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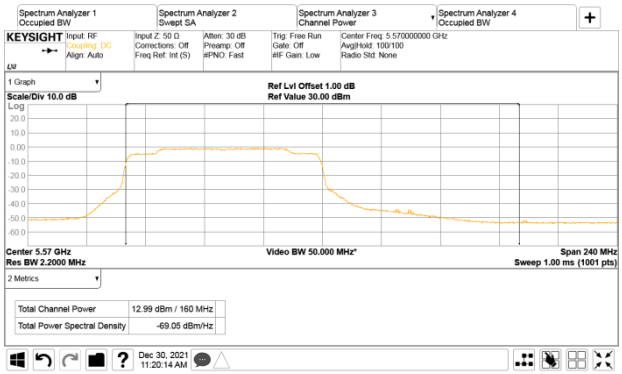
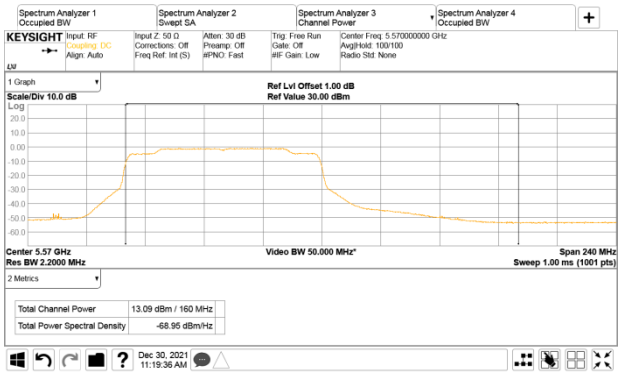
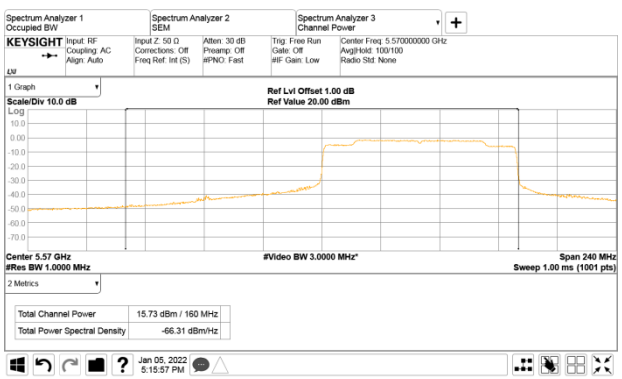
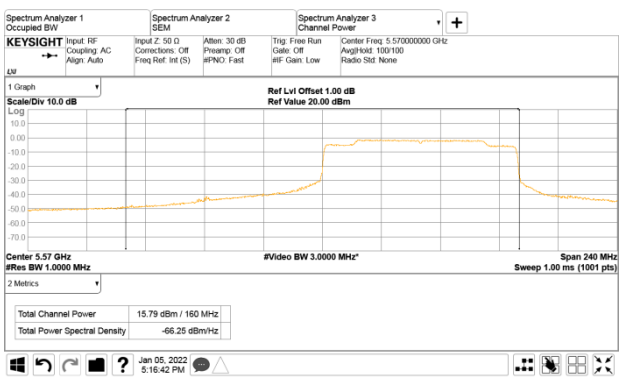
802.11ax-HE160	
U-NII Band III	
Chain 0	Chain 1
5570MHz	
RU Configuration: 996/67	
	
RU Configuration: 996/S67	
	

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A.5 POWER SPECTRAL DENSITY

Test Date	2021/12/27 ~ 2022/01/06	Temp./Hum.	14 ~ 17℃/61 ~ 70%
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	8.020	11 dBm/MHz
		5200	8.626	
		5240	8.733	
	2A	5260	8.686	
		5300	8.548	
		5320	7.865	
	2C	5500	6.143	
		5580	5.987	
		5700	5.580	
		5720	8.472	
	III[Note2]	5745	6.861	30dBm/500 kHz
		5785	7.142	
		5825	6.675	

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.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	I	5180	8.489	11 dBm/MHz
		5200	9.364	
		5240	8.999	
	2A	5260	9.142	
		5300	9.070	
		5320	8.535	
	2C	5500	8.587	
		5580	8.311	
		5700	3.269	
		5720	7.424	
	III[Note2]	5745	9.540	30dBm/500 kHz
		5785	9.625	
		5825	9.088	
802.11n-HT40	I	5190	3.963	11 dBm/MHz
		5230	8.391	
	2A	5270	8.214	
		5310	3.103	
	2C	5510	3.778	
		5550	5.396	
		5670	4.517	
		5710	5.204	
	III[Note2]	5755	6.683	30dBm/500 kHz
		5795	6.697	
802.11ac-VHT80	I	5210	-0.246	11 dBm/MHz
	2A	5290	0.186	
	2C	5530	0.040	
		5610	2.187	
		5690	5.039	
	III [Note2]	5775	2.345	30dBm/500 kHz
802.11ac-VHT160	I/2A	5250	-5.816	11 dBm/MHz
	2C	5570	-3.057	

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	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ax-HE20	I	5180	8.510	11 dBm/MHz
		5200	9.377	
		5240	9.219	
	2A	5260	9.160	
		5300	8.827	
		5320	8.765	
	2C	5500	8.670	
		5580	8.213	
		5700	6.087	
		5720	10.880	
	III[Note2]	5745	8.460	30dBm/500 kHz
		5785	8.472	
		5825	8.365	
802.11ax-HE40	I	5190	3.333	11 dBm/MHz
		5230	7.897	
	2A	5270	7.778	
		5310	3.078	
	2C	5510	3.293	
		5550	5.085	
		5670	4.612	
		5710	5.272	
	III[Note2]	5755	5.304	30dBm/500 kHz
		5795	5.410	
802.11ax-HE80	I	5210	-0.287	11 dBm/MHz
	2A	5290	0.306	
	2C	5530	0.035	
		5610	1.699	
		5690	4.740	
	III [Note2]	5775	1.359	30dBm/500 kHz
802.11ax-HE160	I/2A	5250	-6.589	11 dBm/MHz
	2C	5570	-3.472	

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	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm)	Limit
802.11ax-HE20	I	5180	26/0	8.701	11 dBm/MHz
			52/37	9.116	
			106/53	8.881	
	2A	5320	26/8	8.774	
			52/40	9.180	
			106/54	8.481	
	2C	5500	26/0	8.721	
			52/37	9.099	
			106/53	8.333	
		5700	26/8	8.466	
			52/40	8.932	
			106/54	9.035	
	III[Note2]	5745	26/0	12.221	30dBm/500 kHz
			52/37	6.584	
			106/53	8.366	
		5825	26/8	11.888	
			52/40	6.337	
			106/54	7.575	
802.11ax-HE40	I	5190	242/61	8.602	11 dBm/MHz
	2A	5310	242/62	6.726	
	2C	5510	242/61	9.537	
		5670	242/62	8.646	
	III[Note2]	5755	242/61	8.252	30dBm/500 kHz
		5795	242/62	8.612	
802.11ax-HE80	I	5210	484/65	3.525	11 dBm/MHz
	2A	5290	484/66	-0.242	
	2C	5530	484/65	2.500	
		5610	484/66	7.169	
	III [Note2]	5775	484/65	4.720	30dBm/500 kHz
			484/66	5.573	
802.11ax-HE160	I/2A	5250	996/67	0.227	11 dBm/MHz
			996/S67	-1.774	
	2C	5570	996/67	-0.081	
			996/S67	3.789	

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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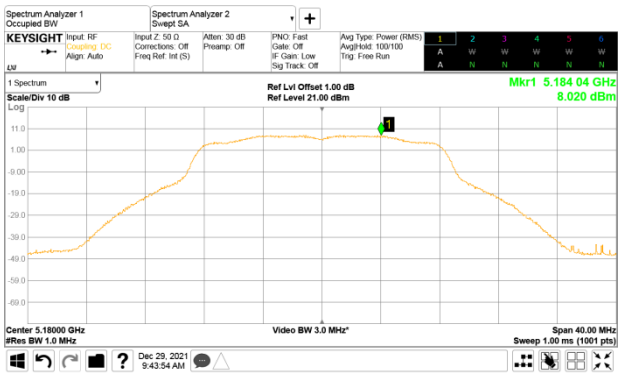
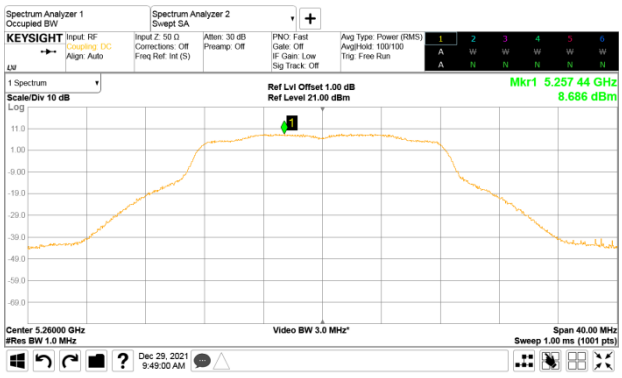
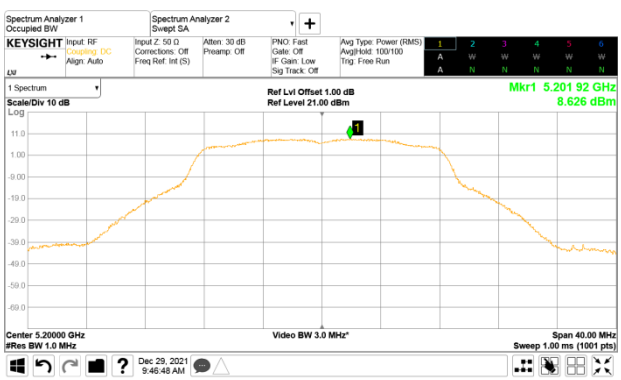
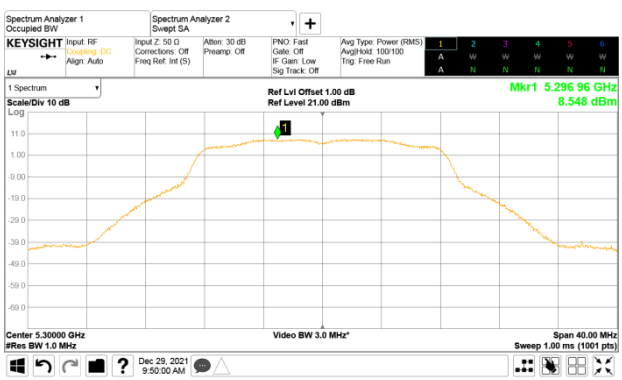
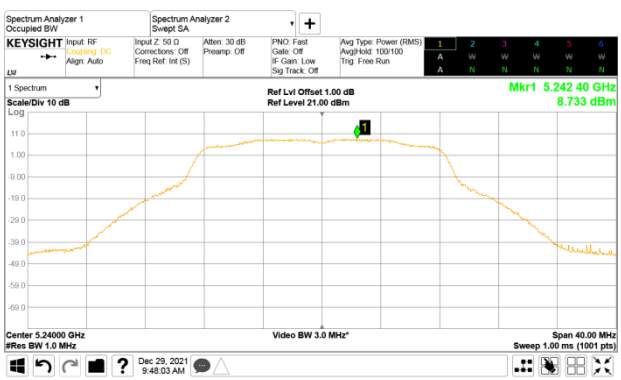
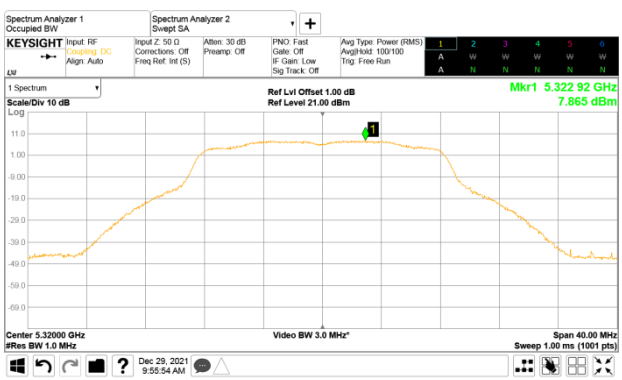
A.5.2 Measurement Plots

Mode: 802.11a	
U-NII Band I	U-NII Band 2A
	
	
	

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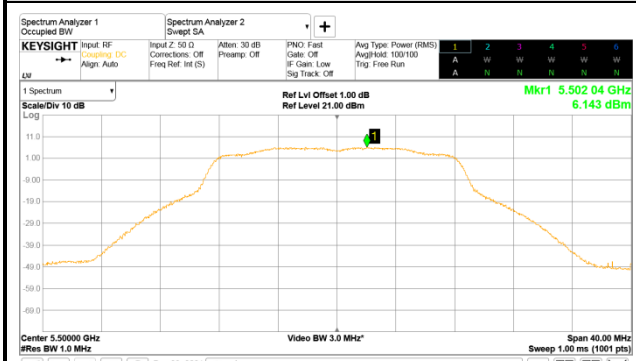
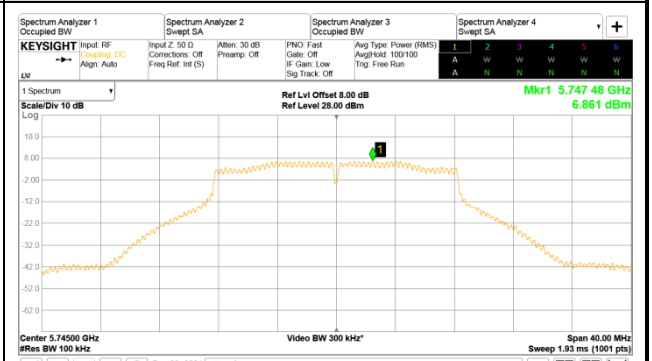
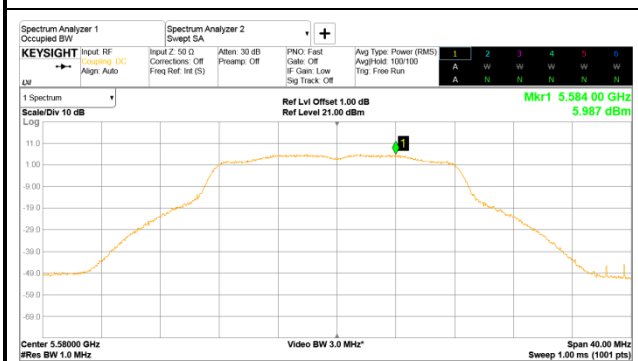
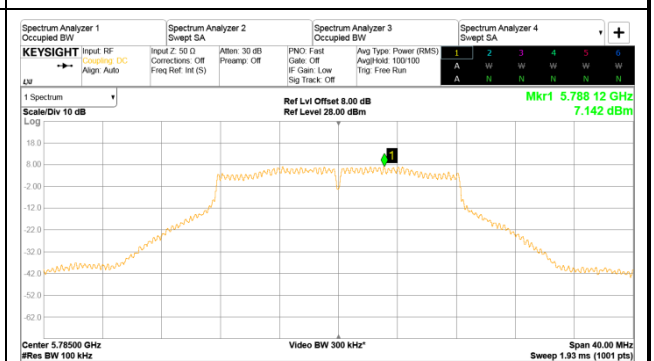
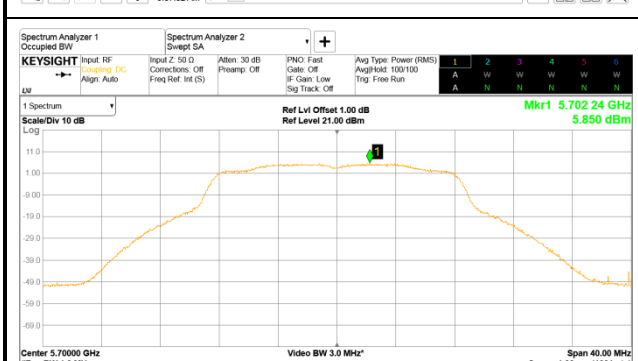
Mode: 802.11a	
U-NII Band 2C	U-NII Band III

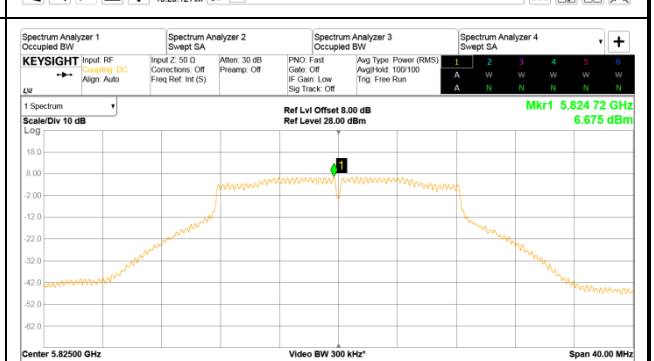


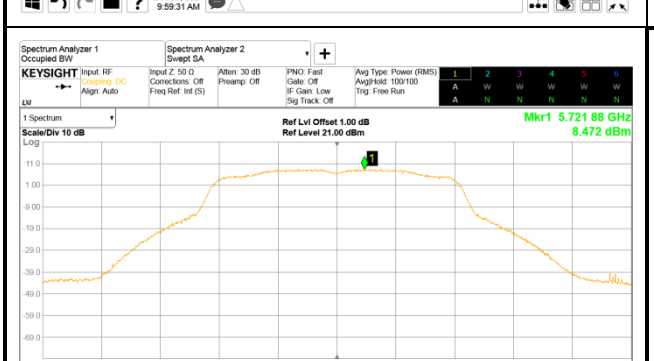












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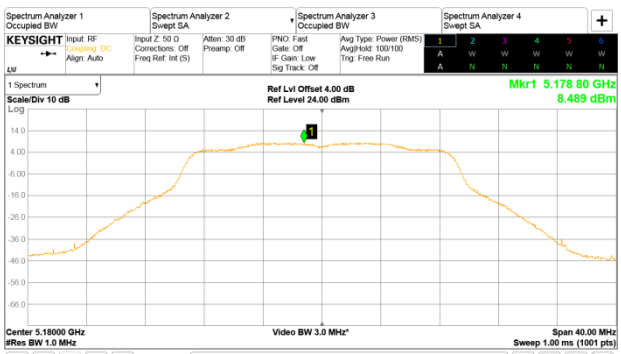
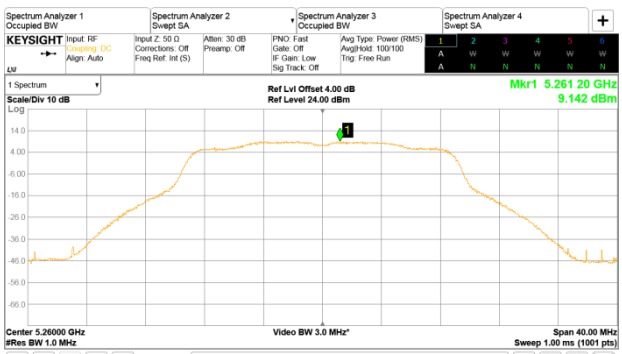
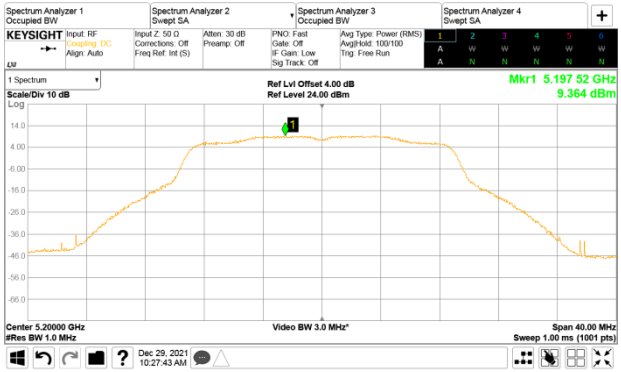
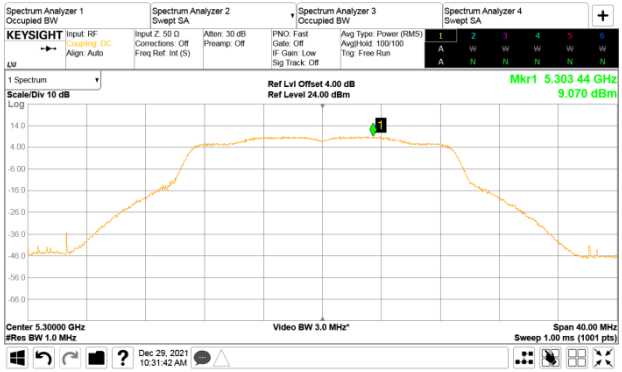
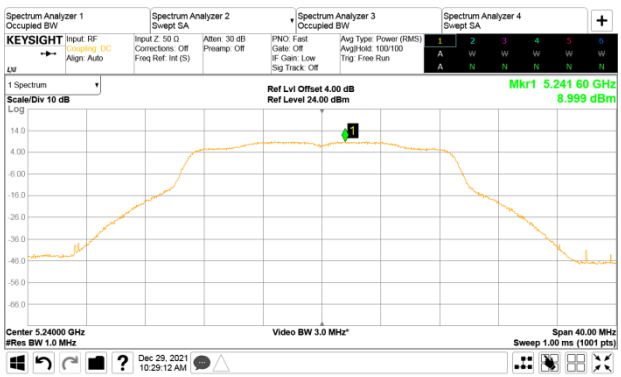
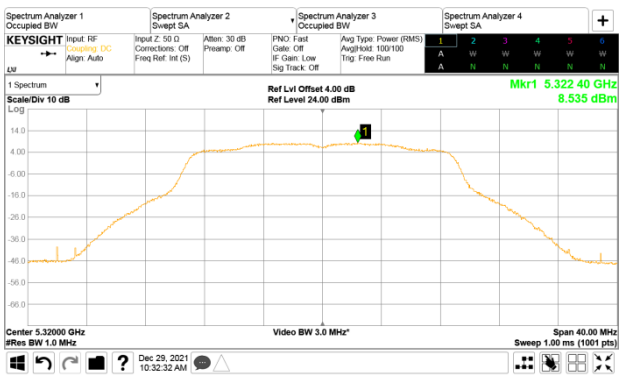
Mode: 802.11n-HT20	
U-NII Band I	U-NII Band 2A
	
	
	

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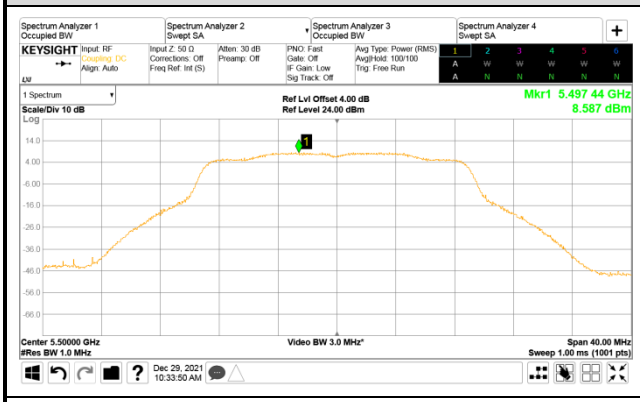
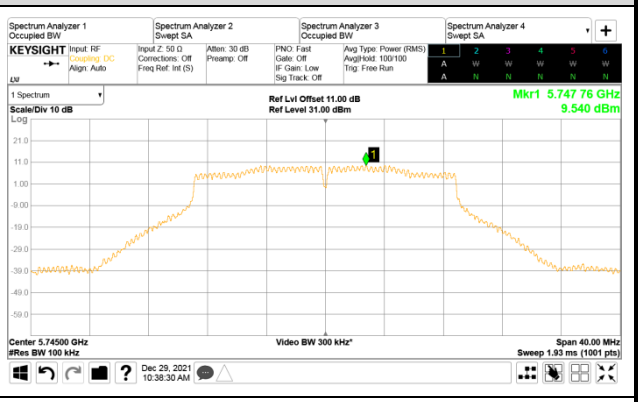
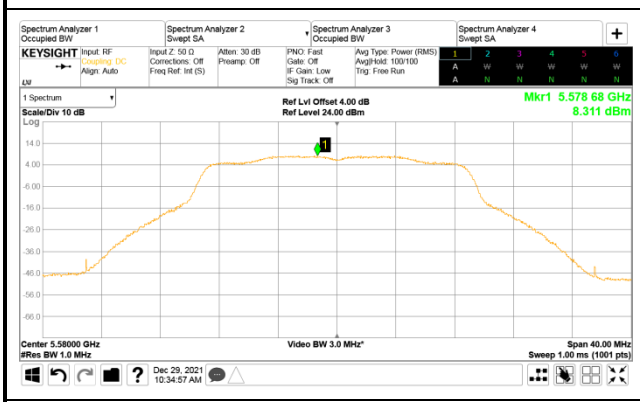
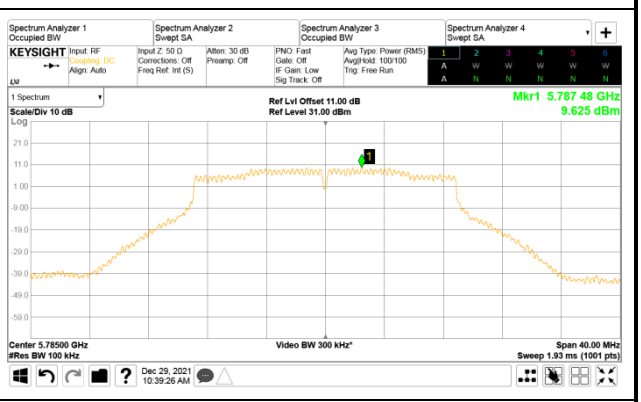
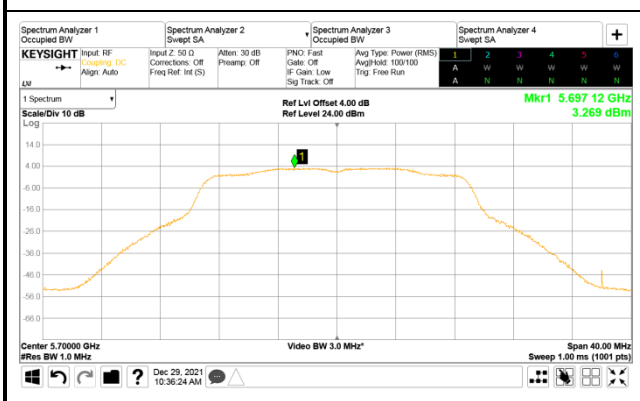
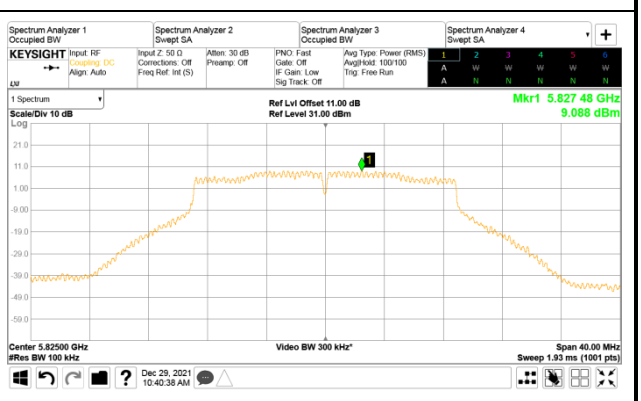
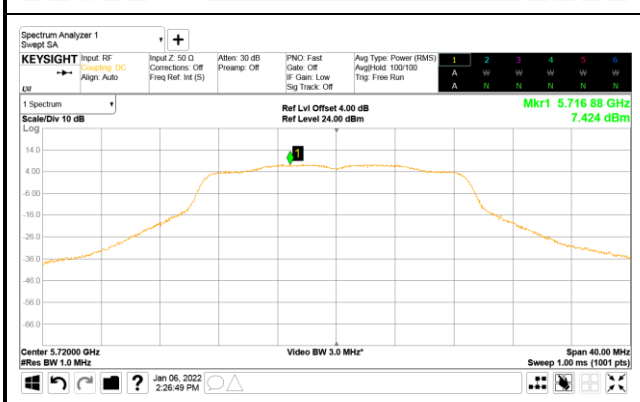
Mode: 802.11n-HT20	
U-NII Band 2C	U-NII Band III
	
	
	
	

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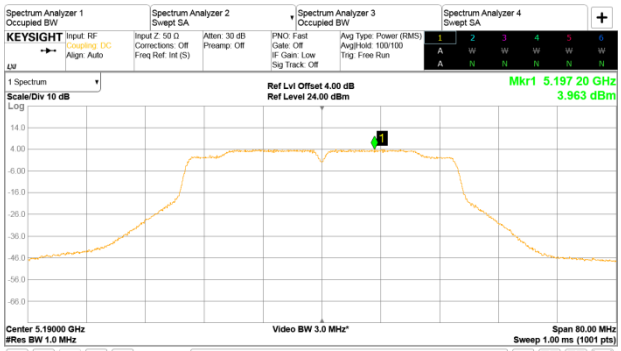
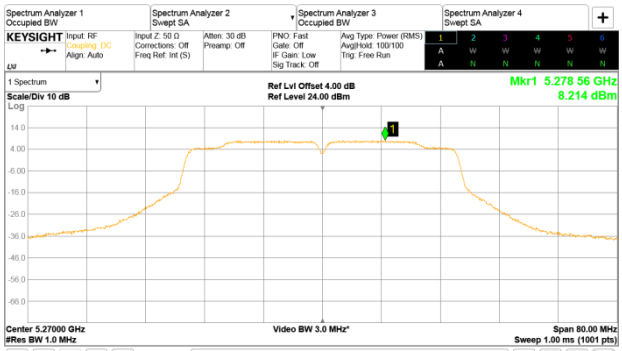
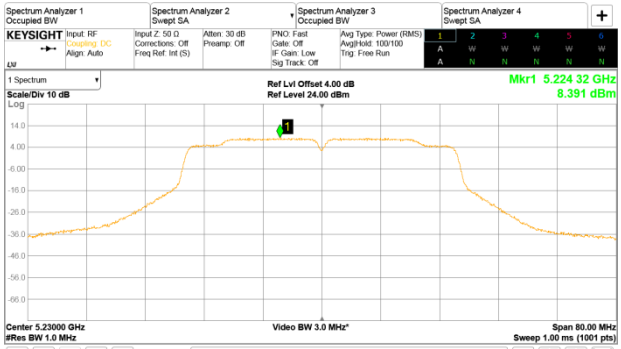
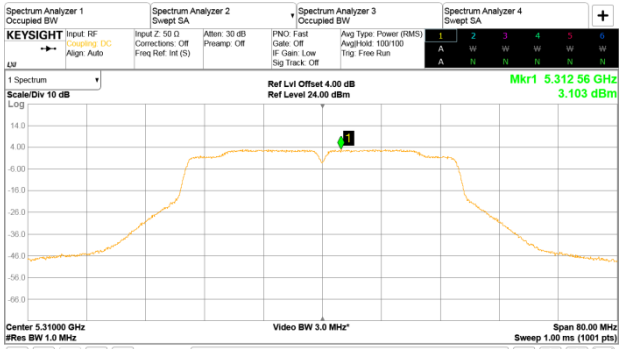
Mode: 802.11n-HT40	
U-NII Band I	U-NII Band 2A
	
	

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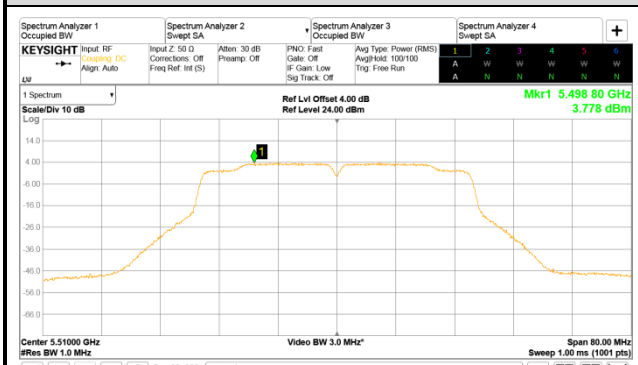
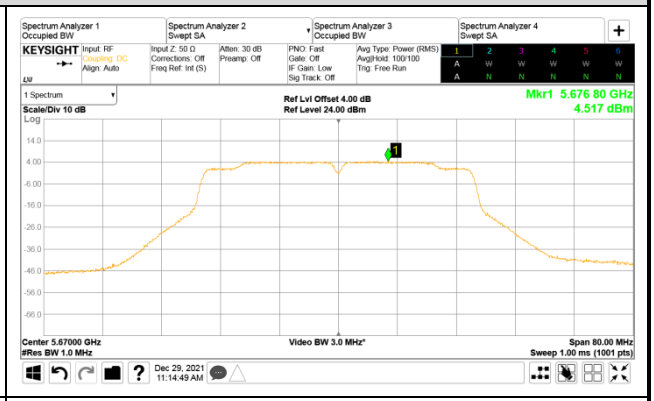
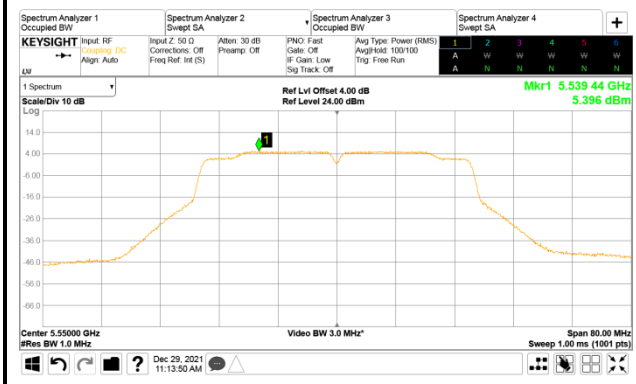
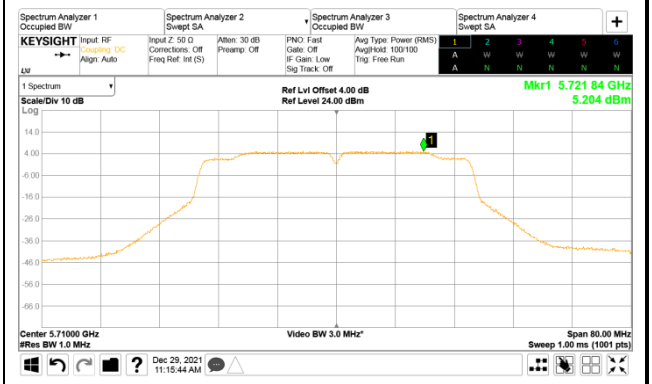
Mode: 802.11n-HT40

U-NII Band 2C

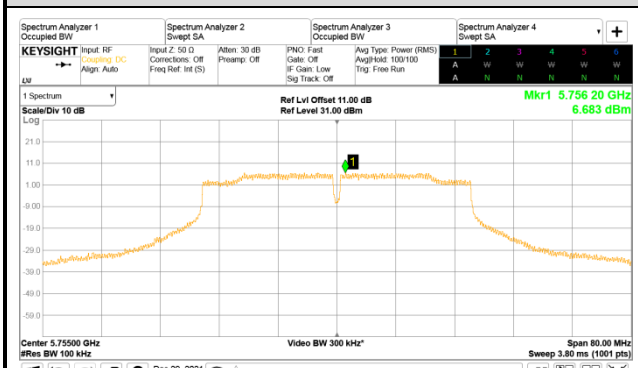


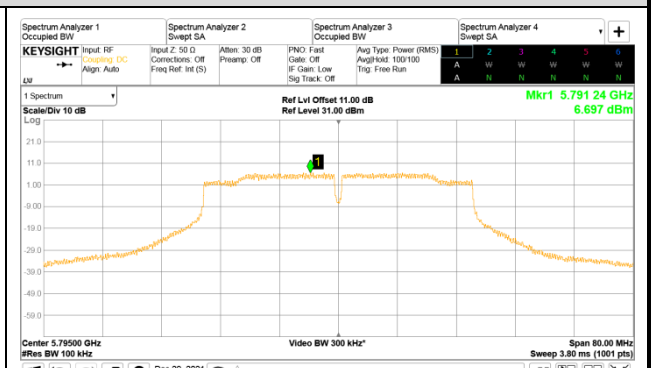






U-NII Band III





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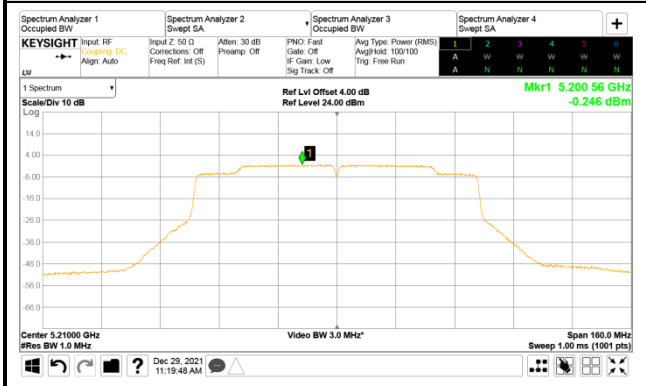
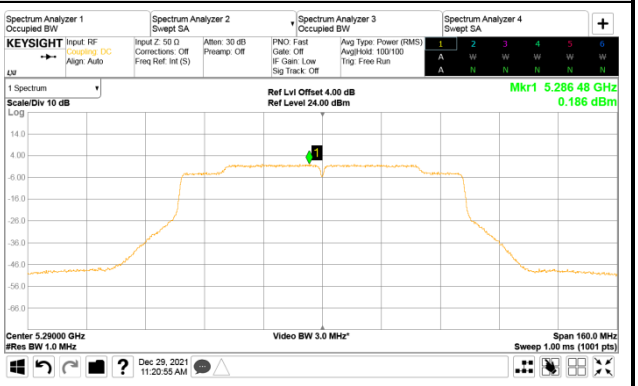
Mode: 802.11ac-VHT80

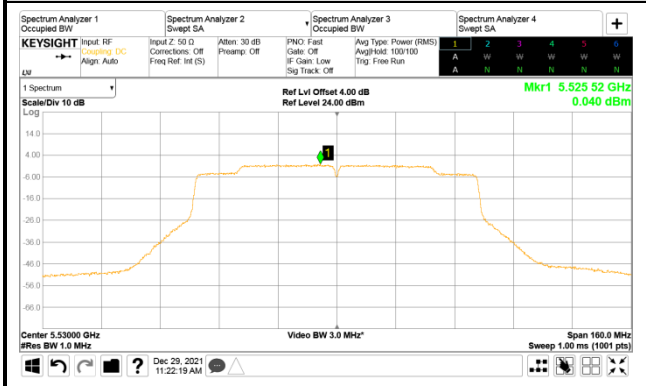
U-NII Band I



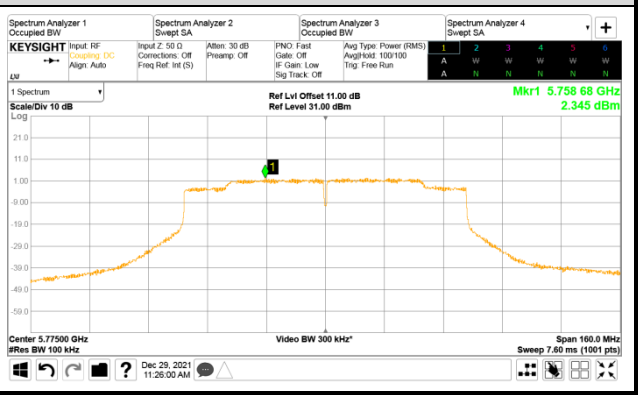
U-NII Band 2A

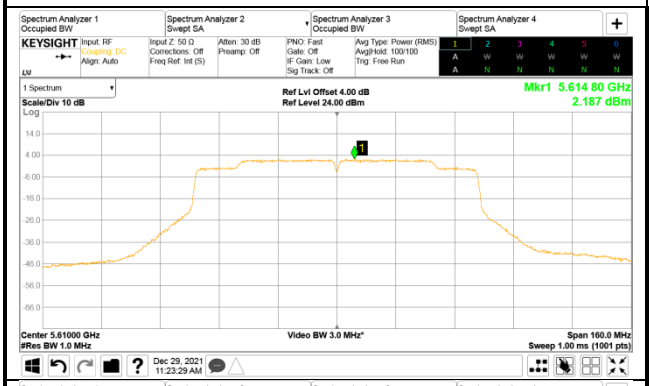


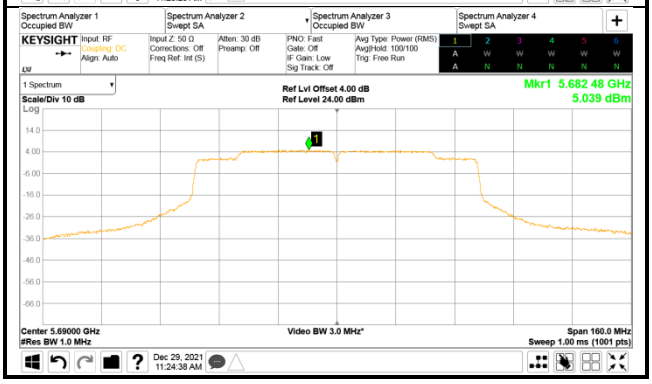
U-NII Band 2C



U-NII Band III







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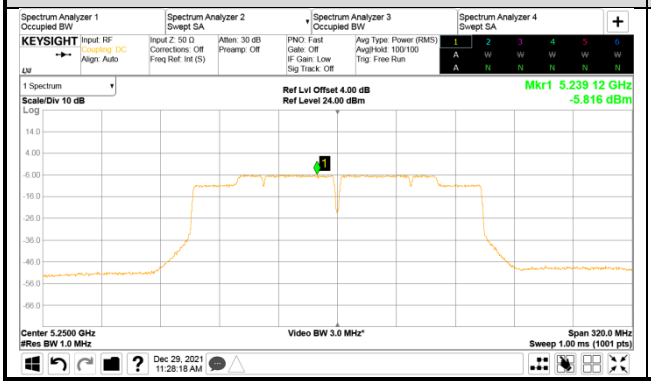
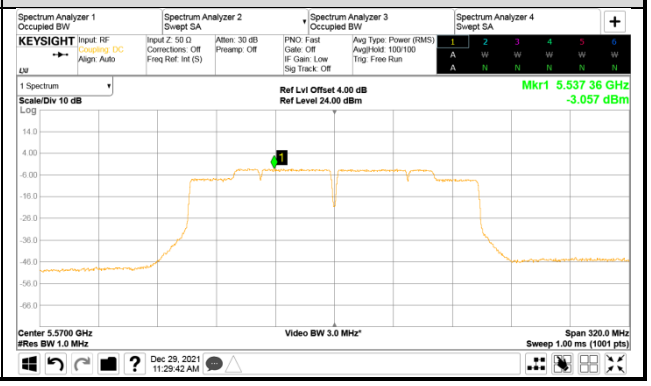
Mode: 802.11ac-VHT160

U-NII Band I

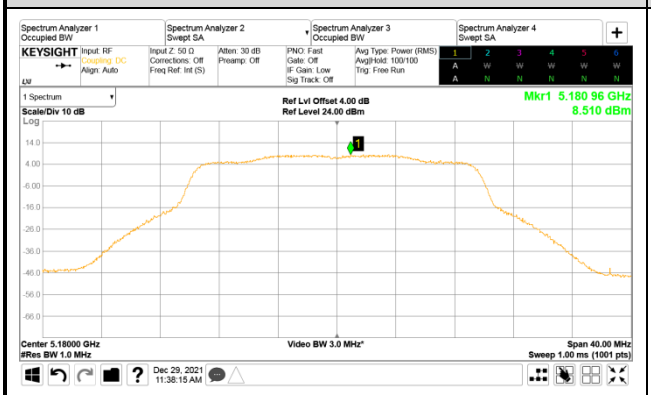


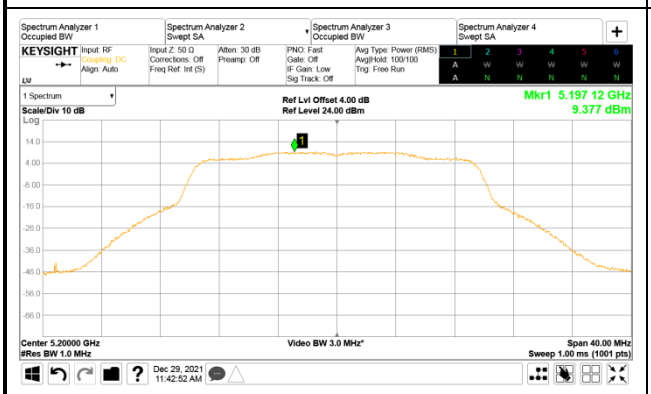
U-NII Band 2C

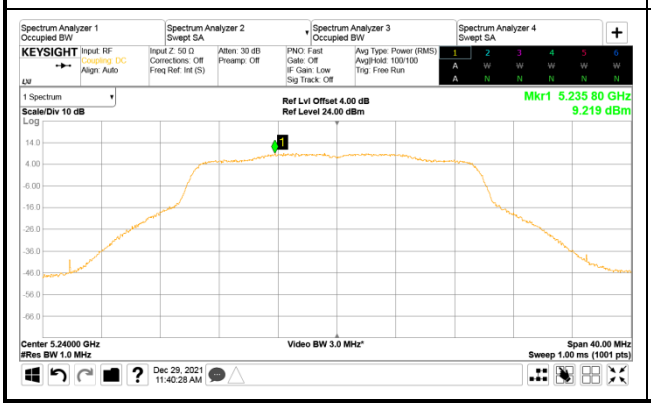


Mode: 802.11ax-HE20

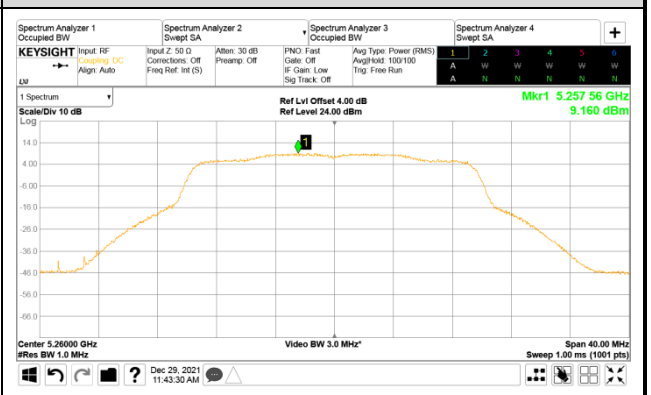
U-NII Band I

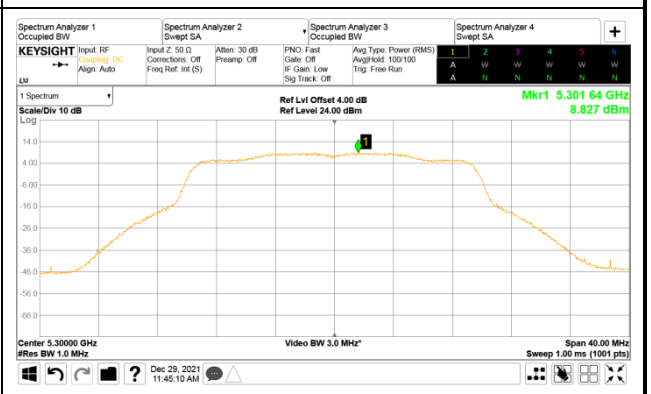


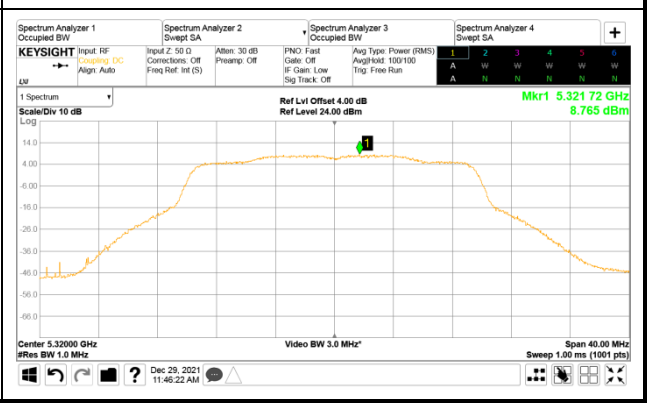




U-NII Band 2A







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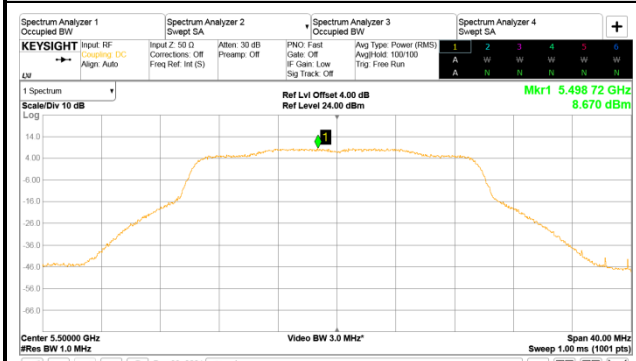
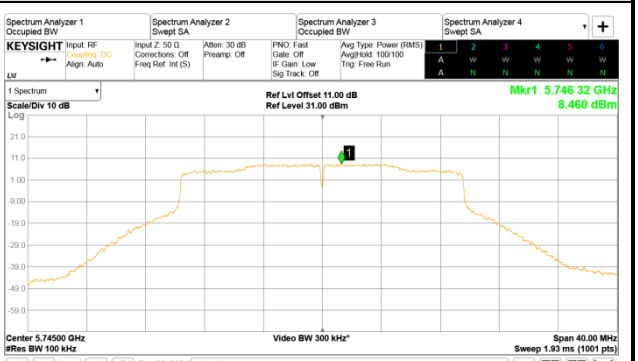
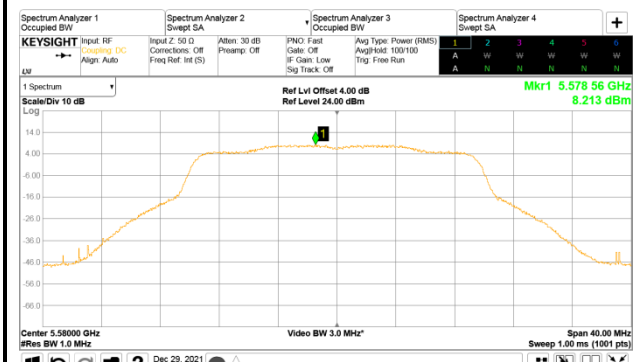
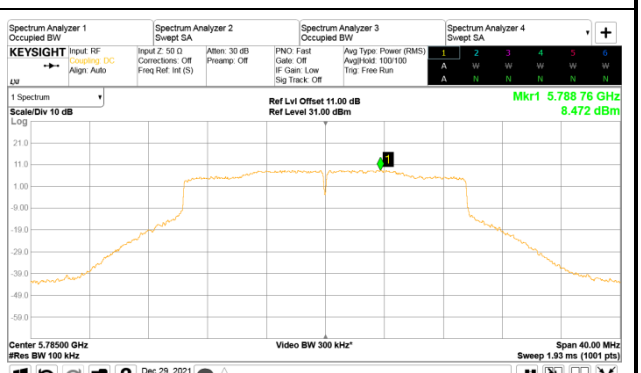
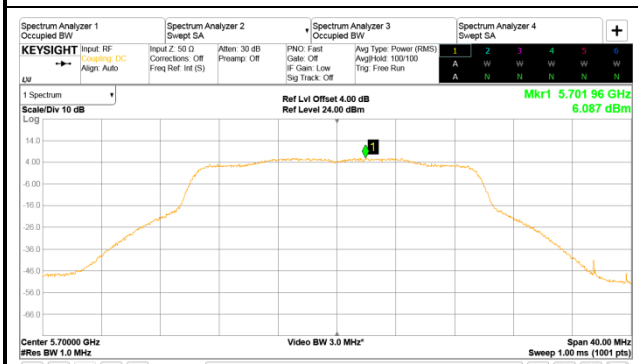
Mode: 802.11ax-HE20	
U-NII Band 2C	U-NII Band III

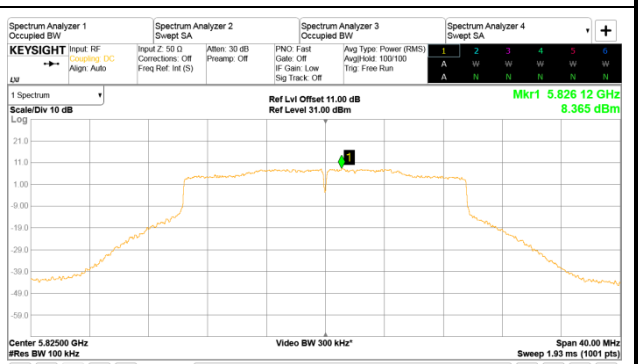


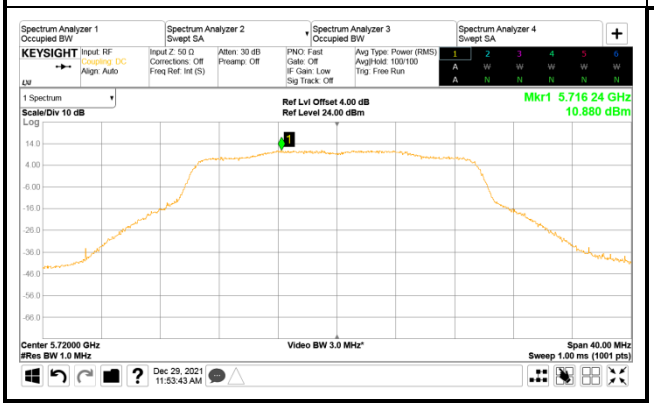












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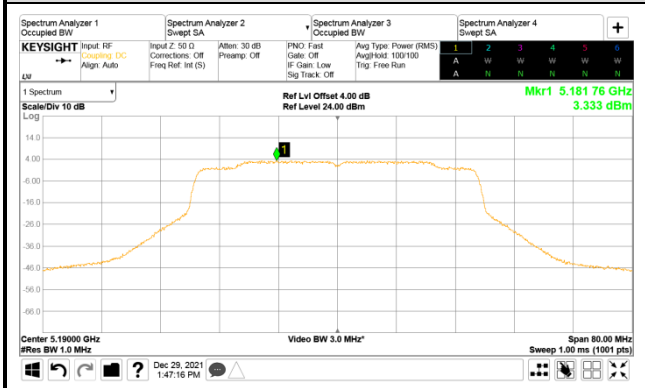
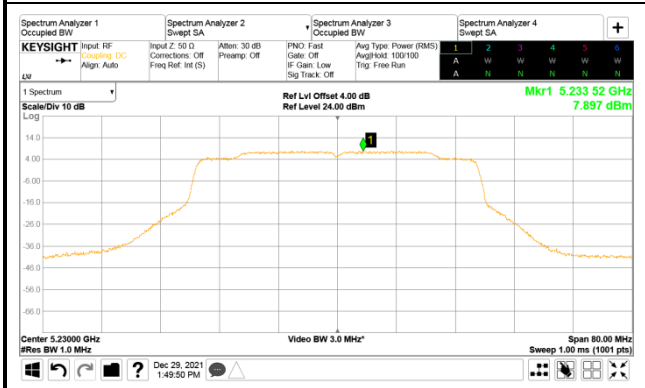
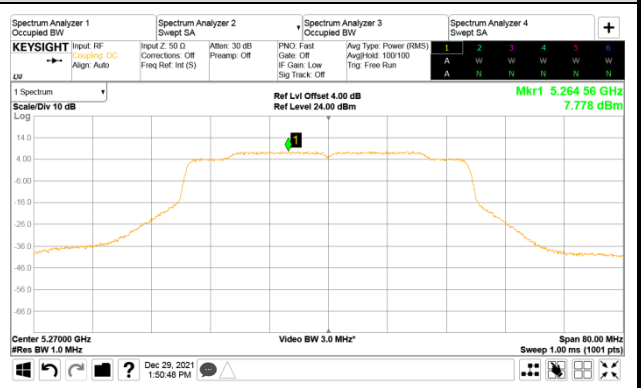
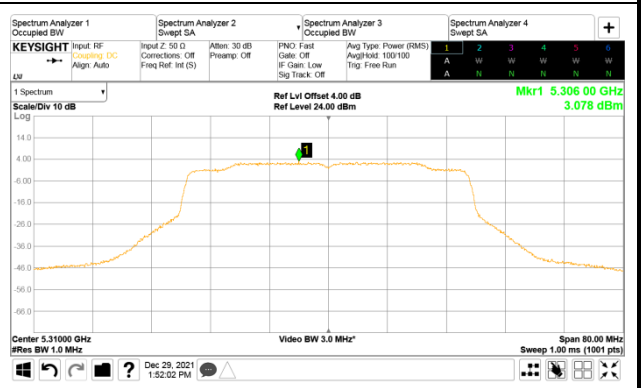
U-NII Band I



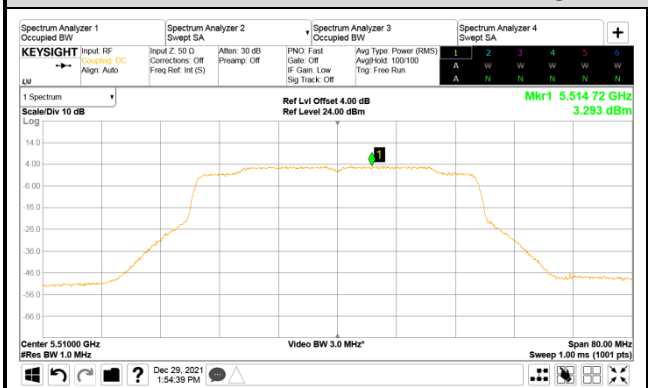


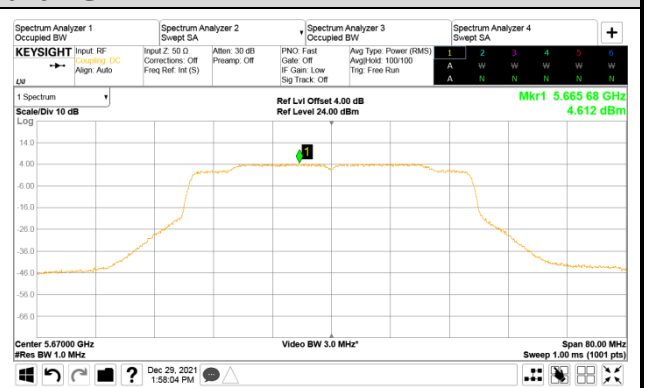
U-NII Band 2A

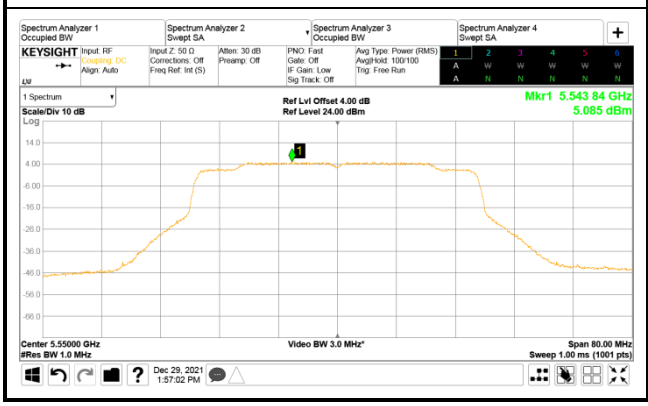


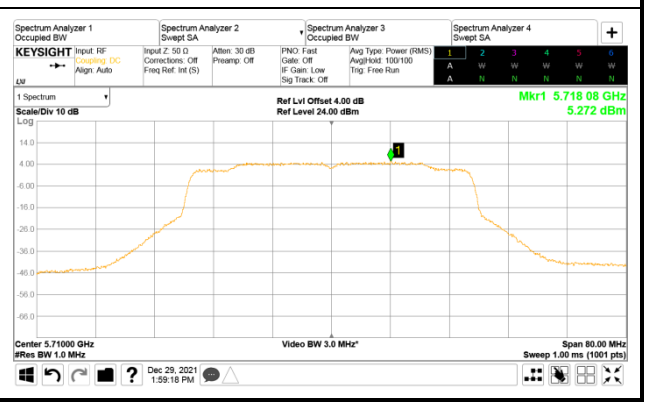


U-NII Band 2C









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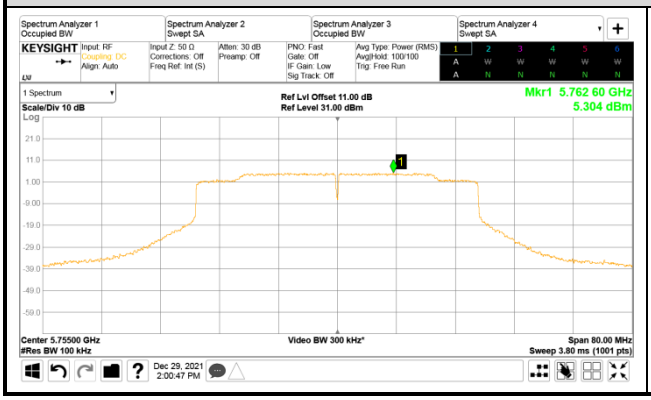
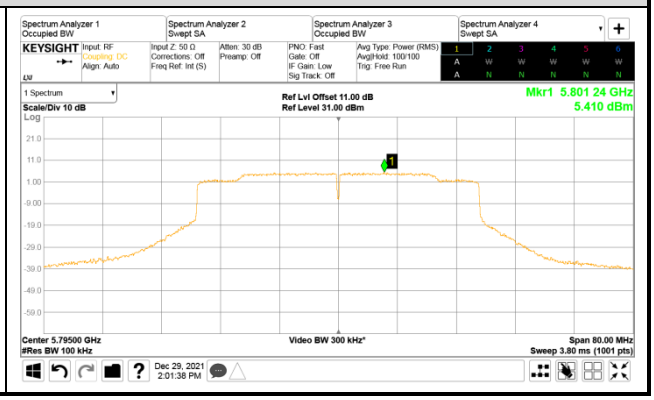
Mode: 802.11ax-HE40	
U-NII Band III	
	

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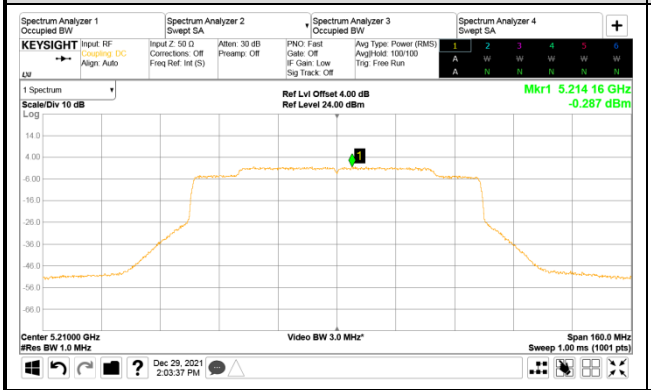
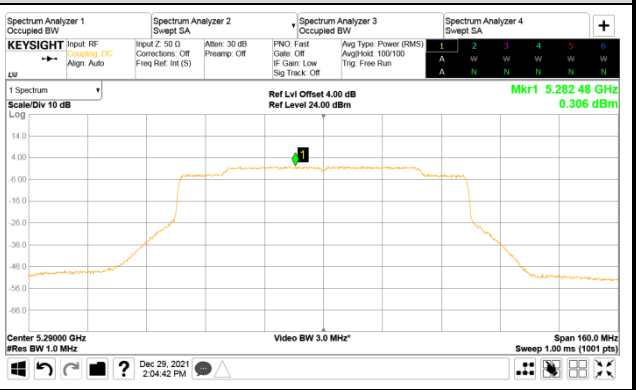
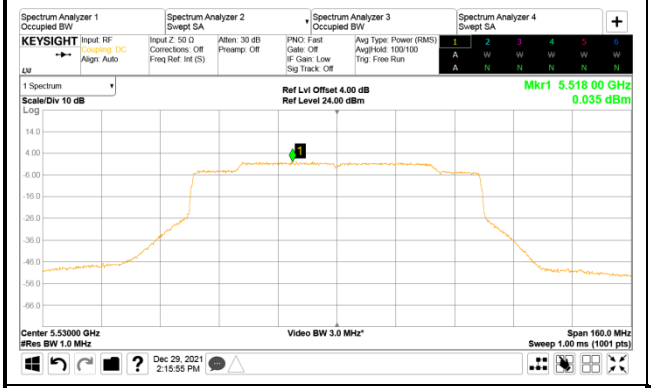
U-NII Band I



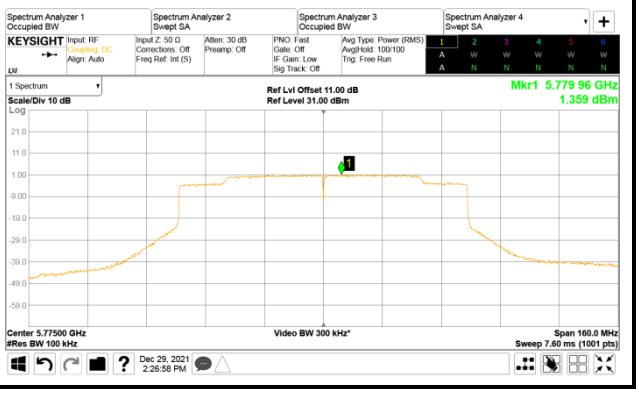
U-NII Band 2A

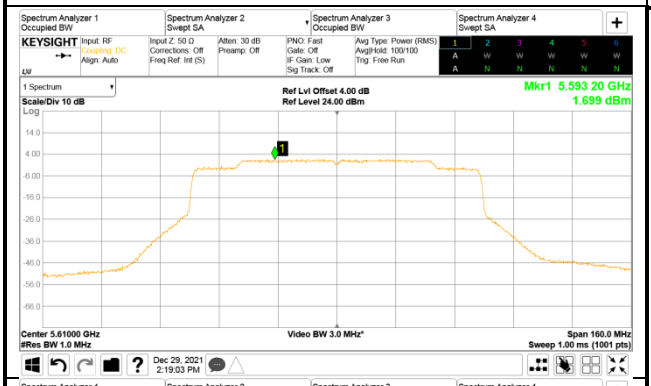


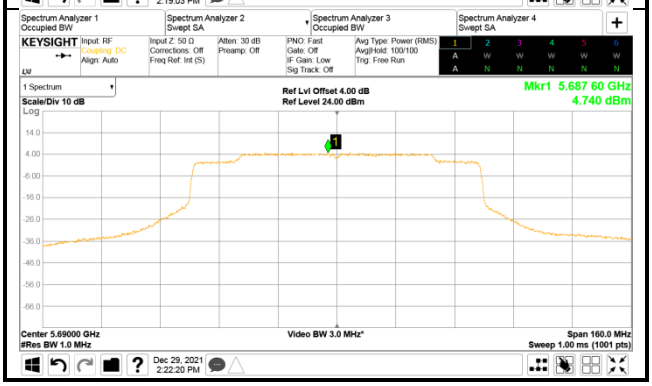
U-NII Band 2C



U-NII Band II







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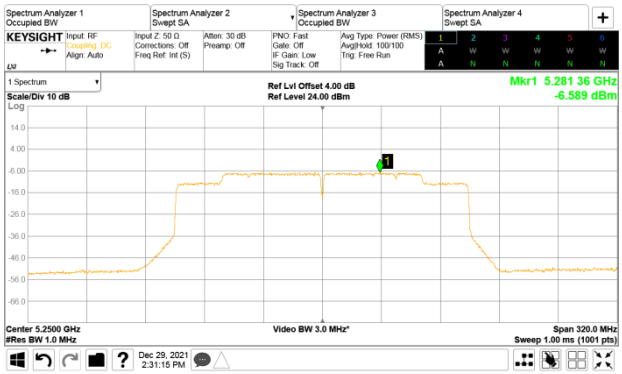
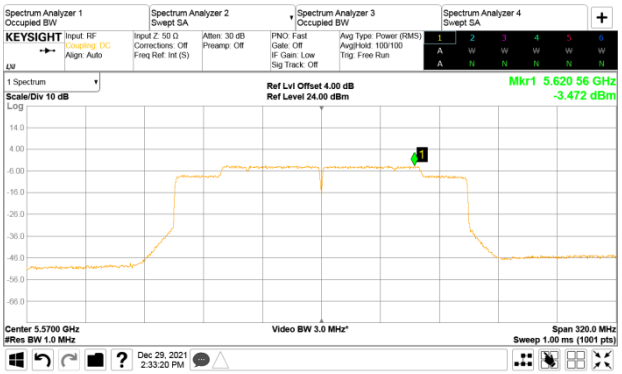
Mode: 802.11ax-HE160	
U-NII Band I	U-NII Band 2C
	

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