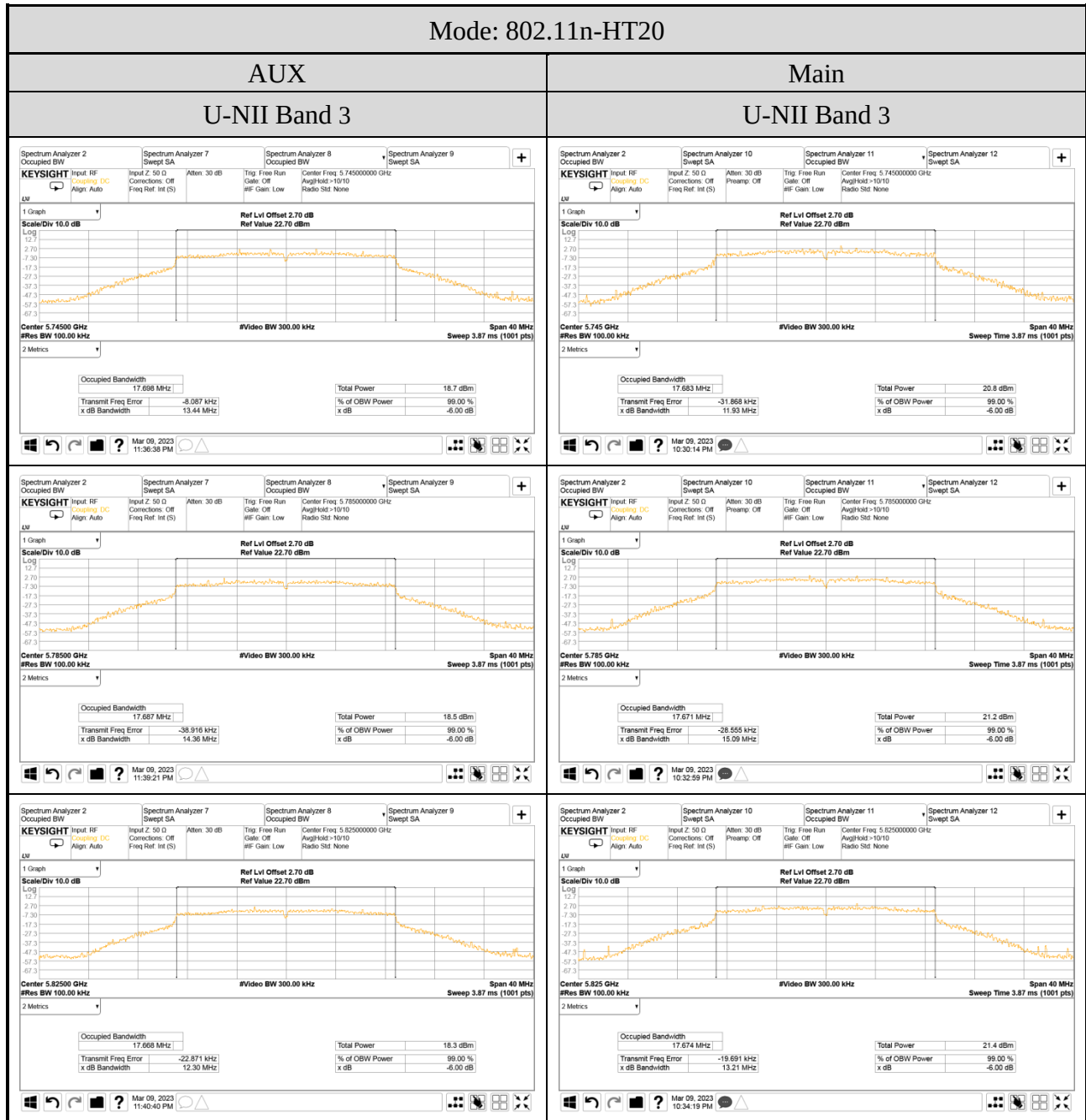
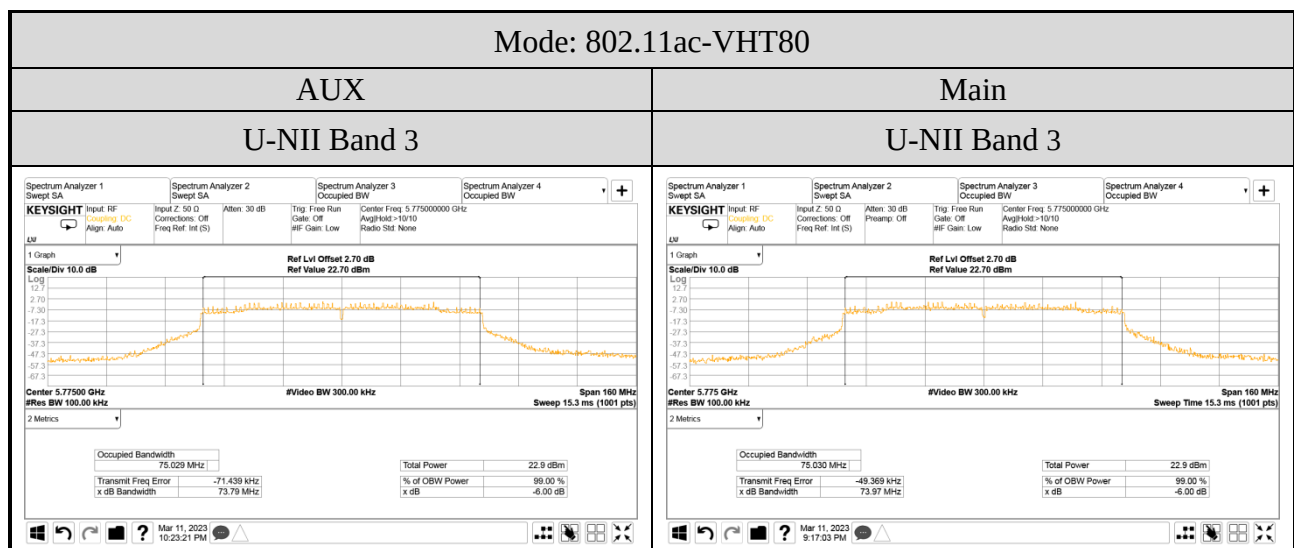
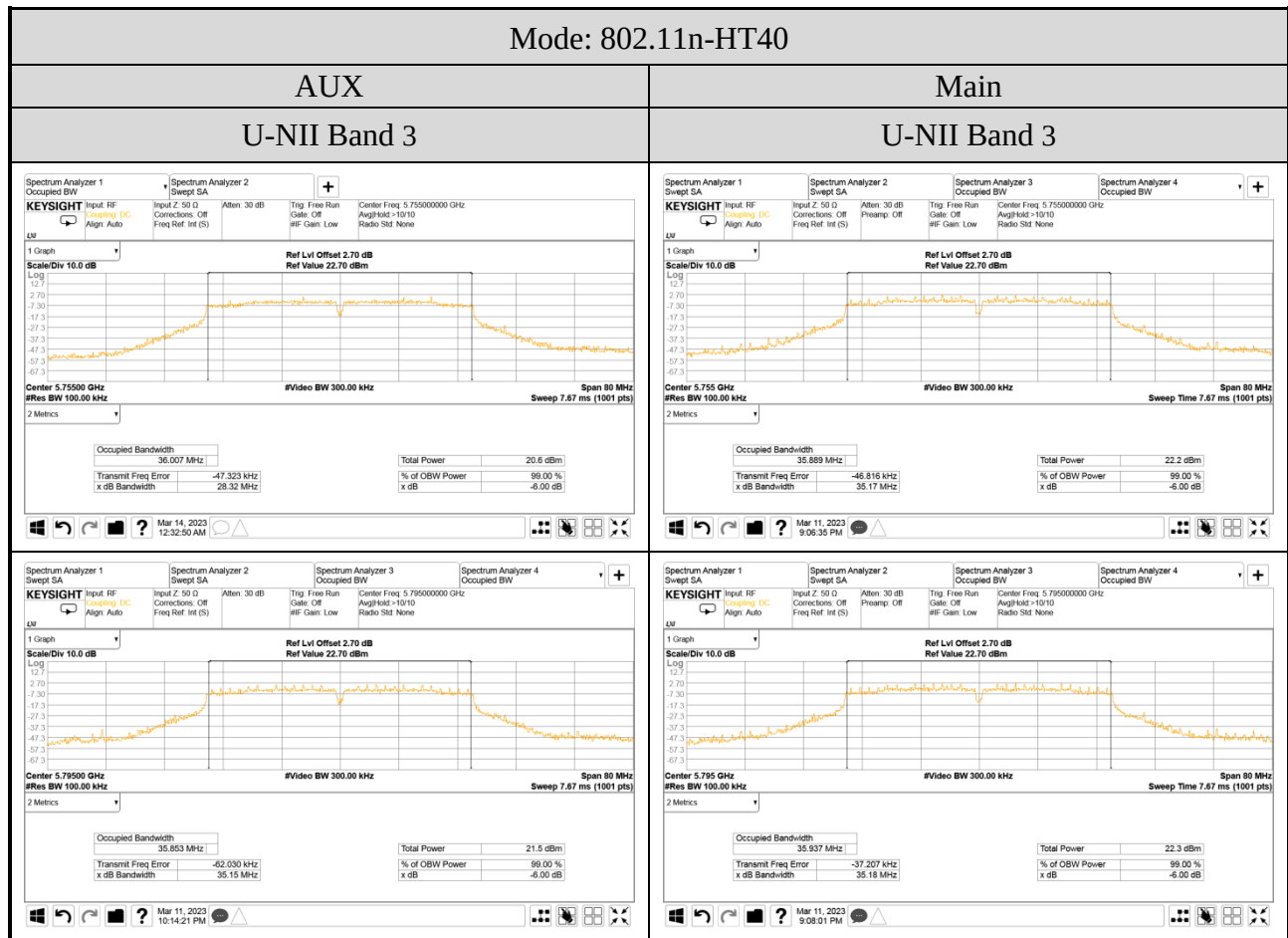


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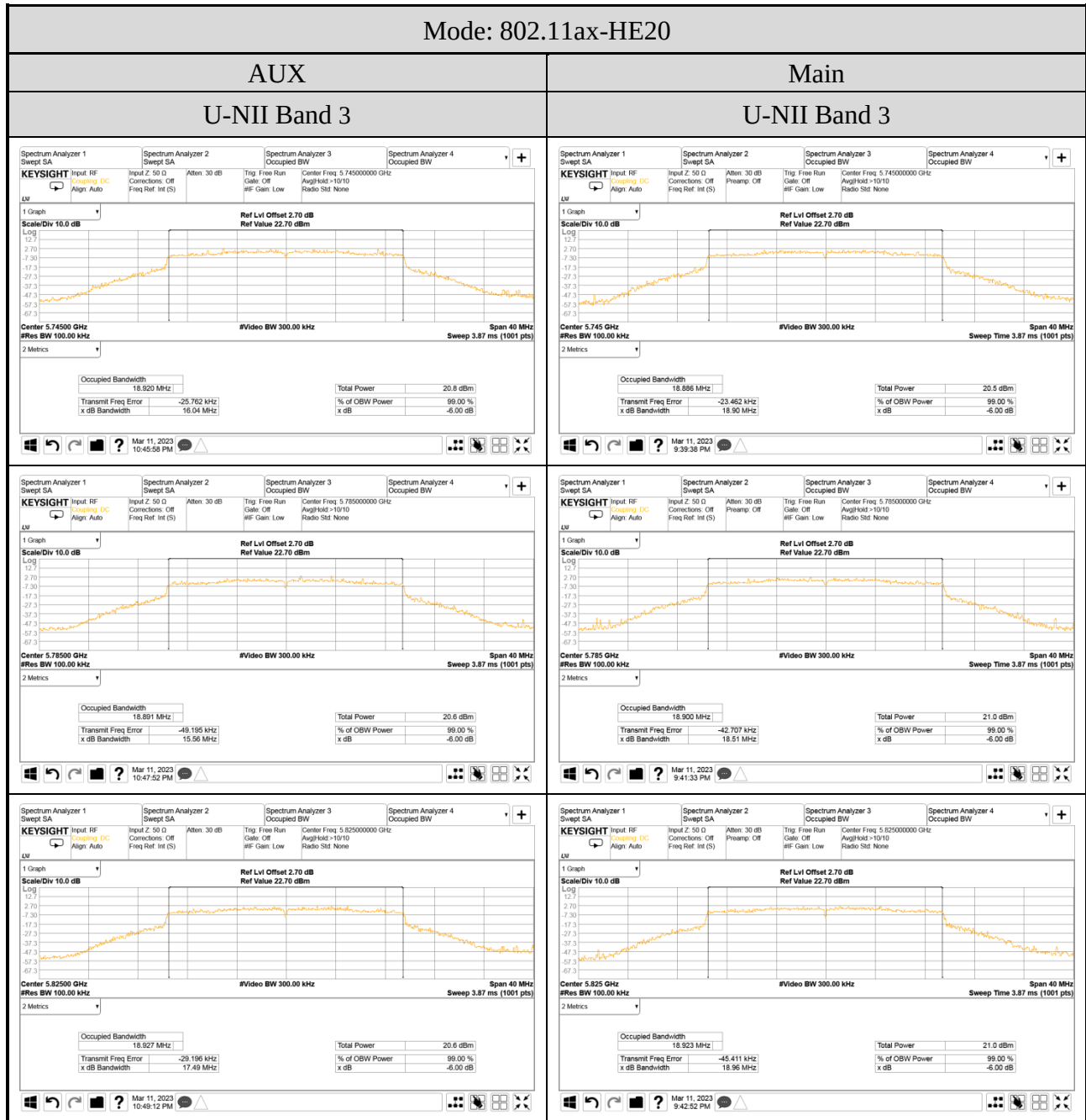
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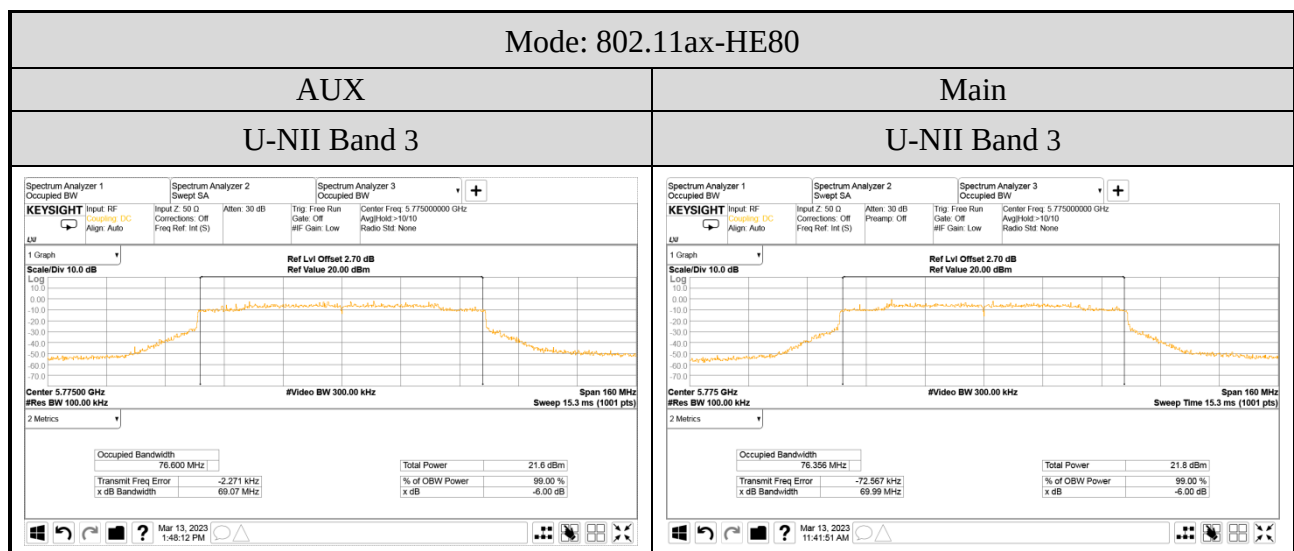
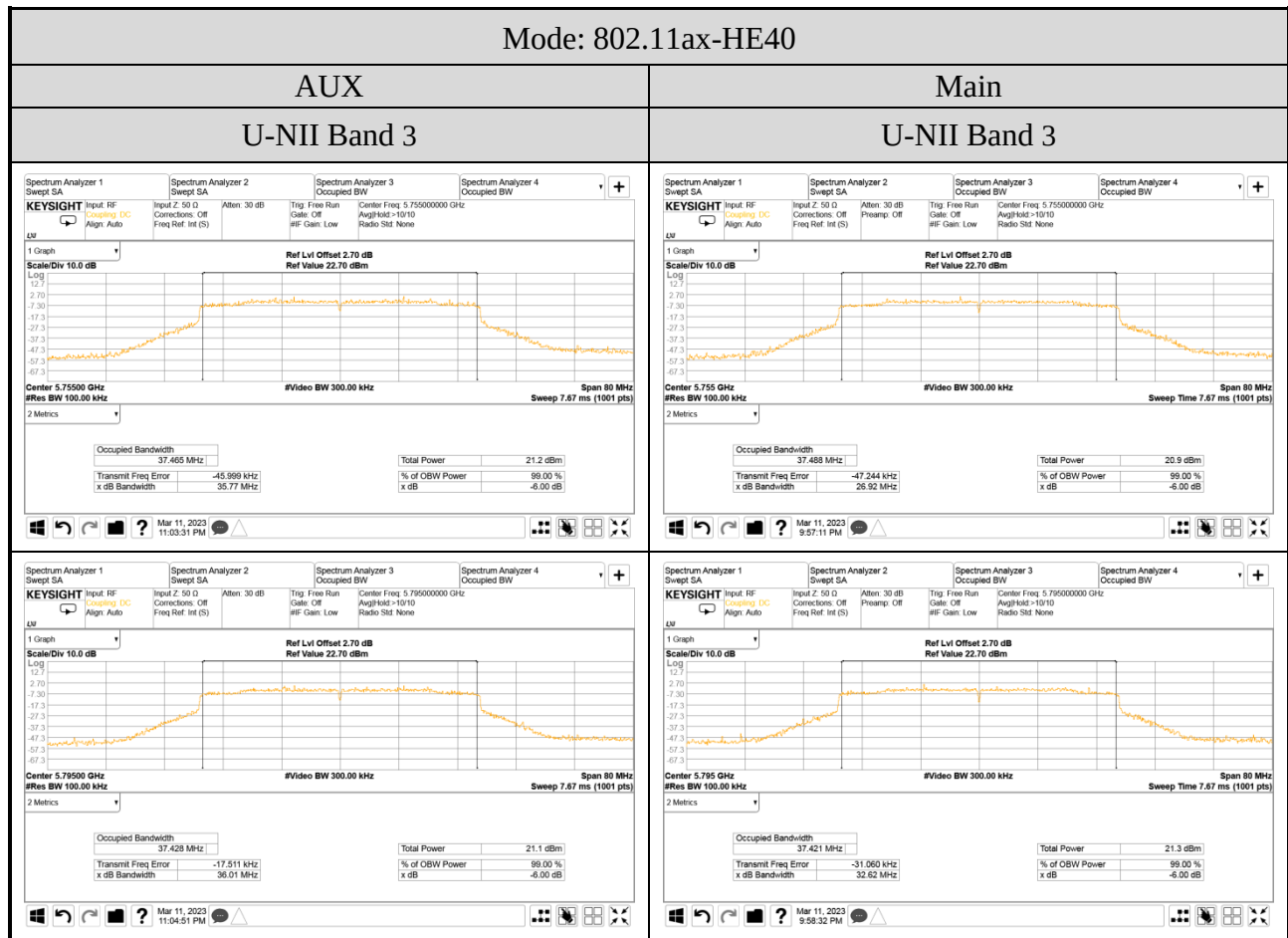




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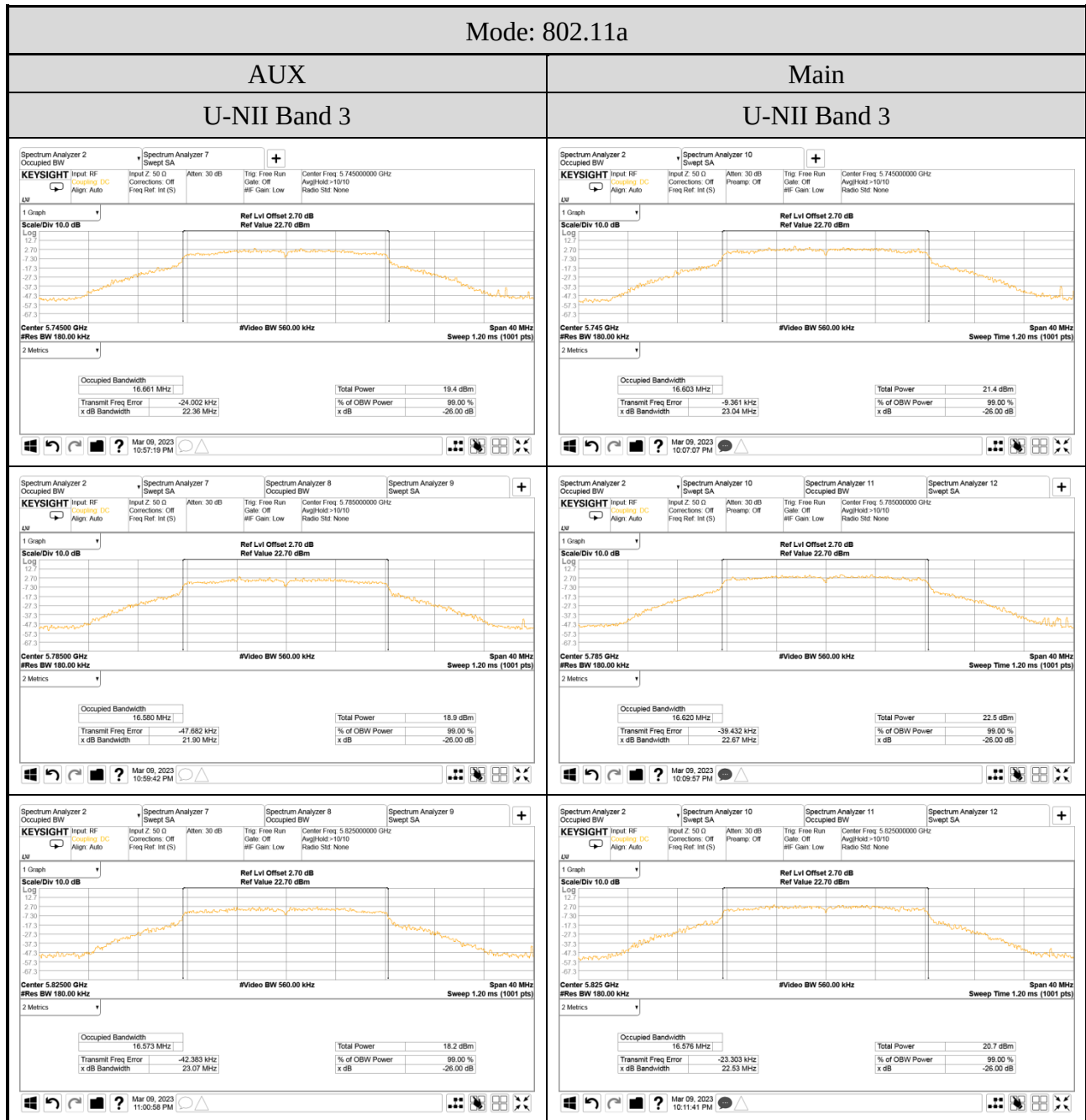


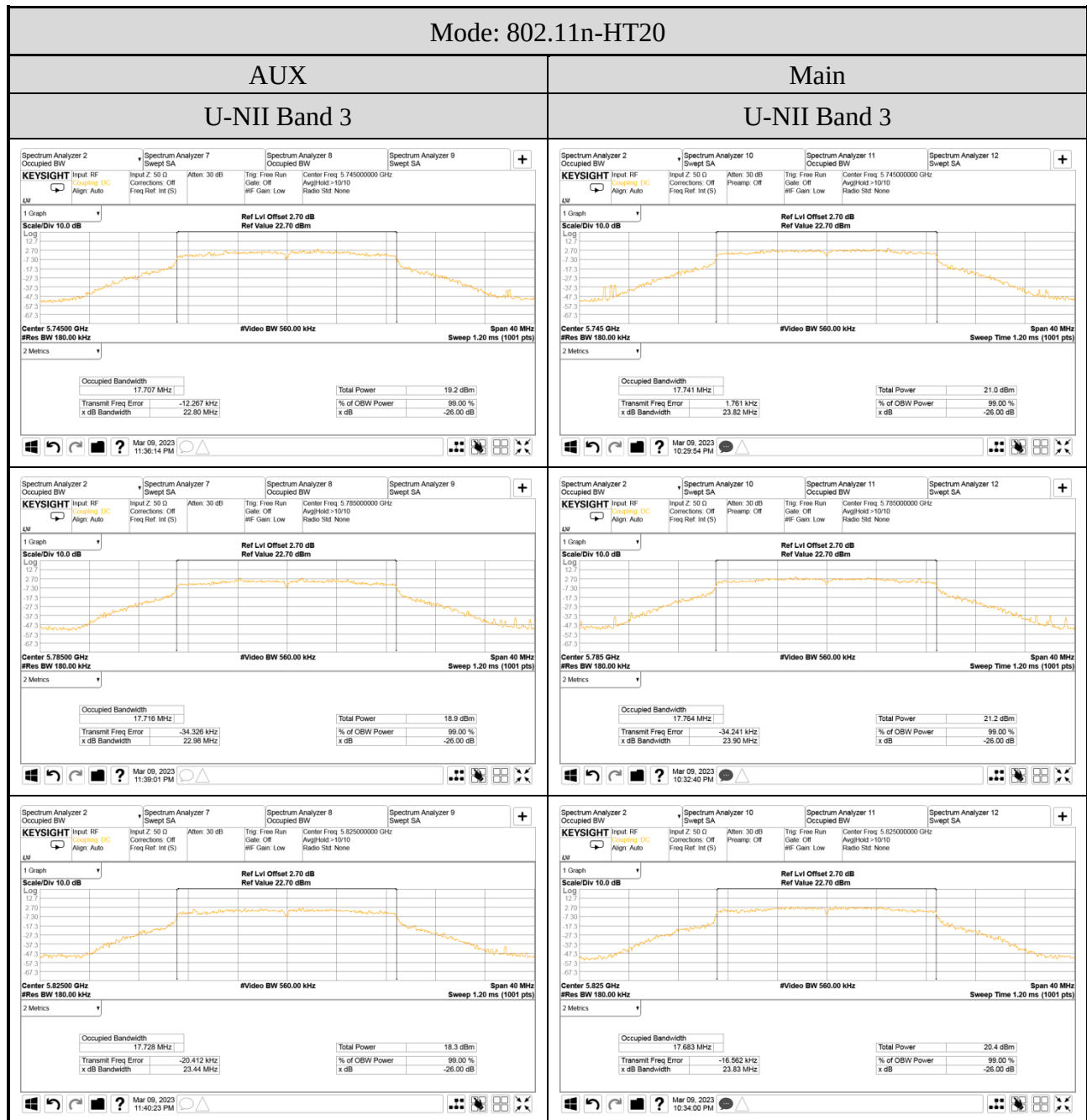


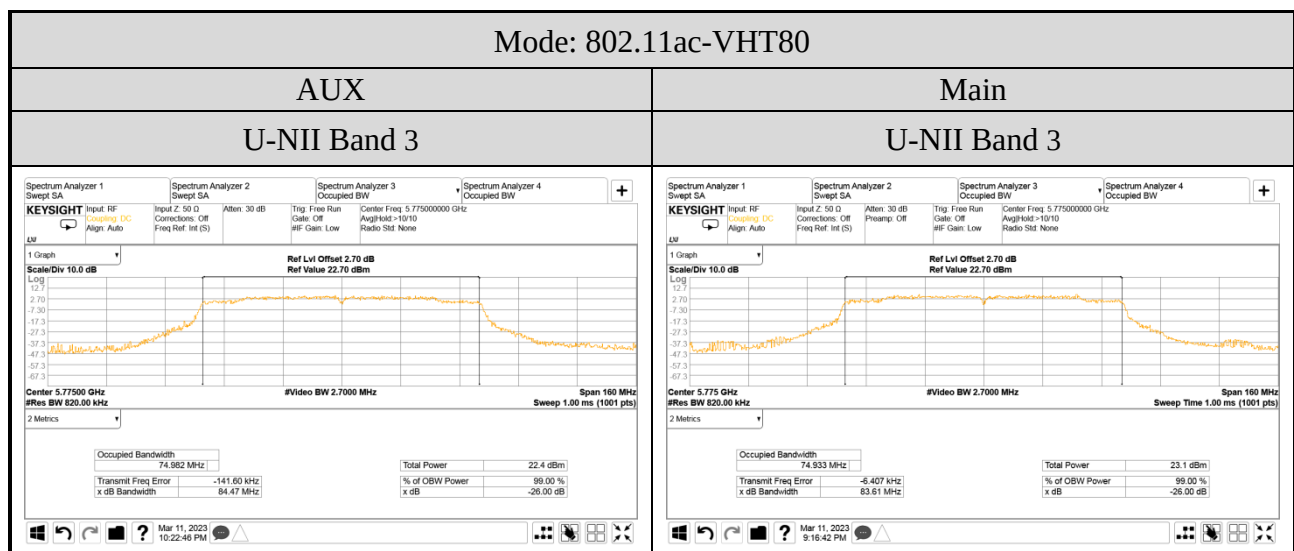
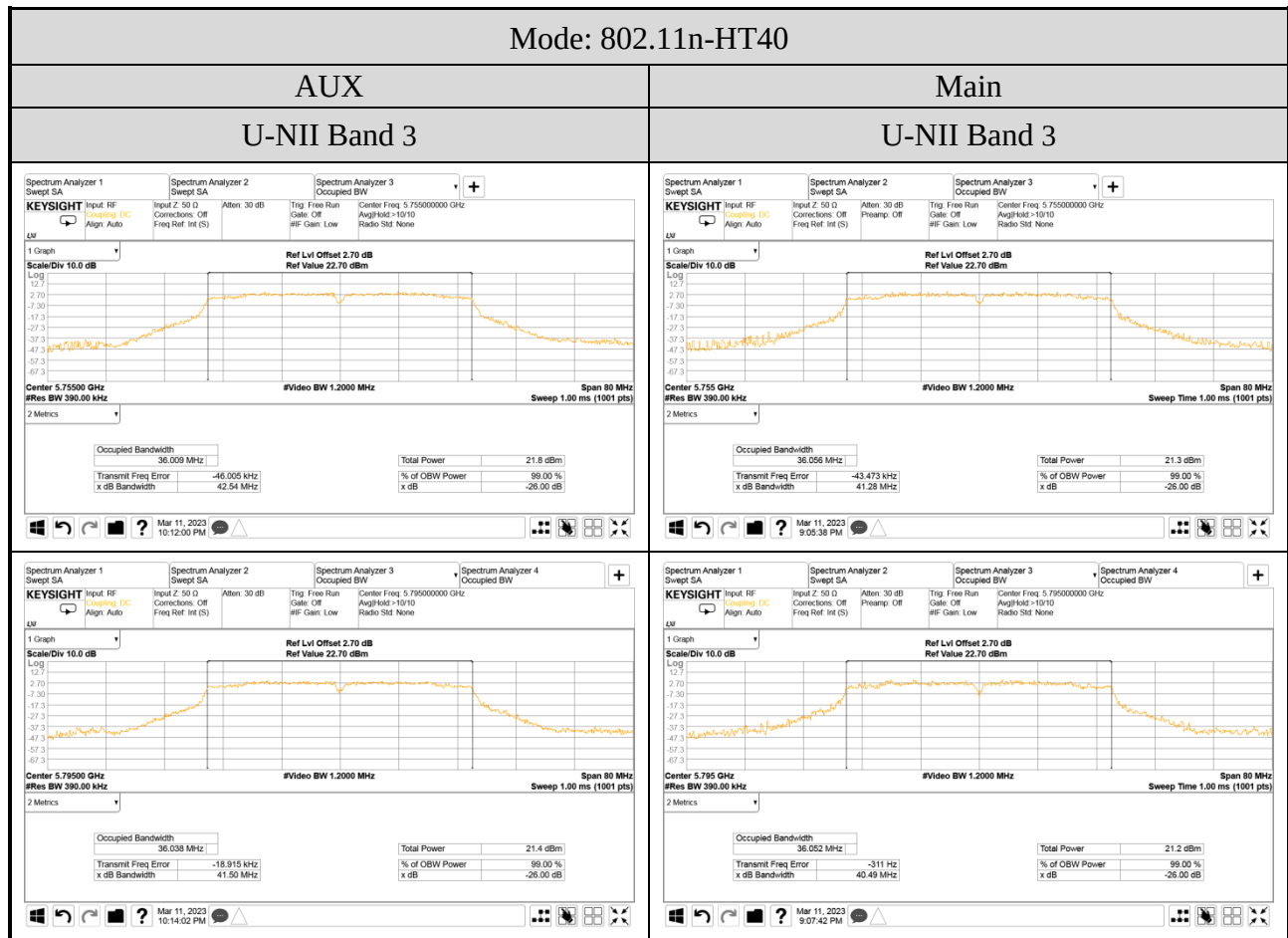
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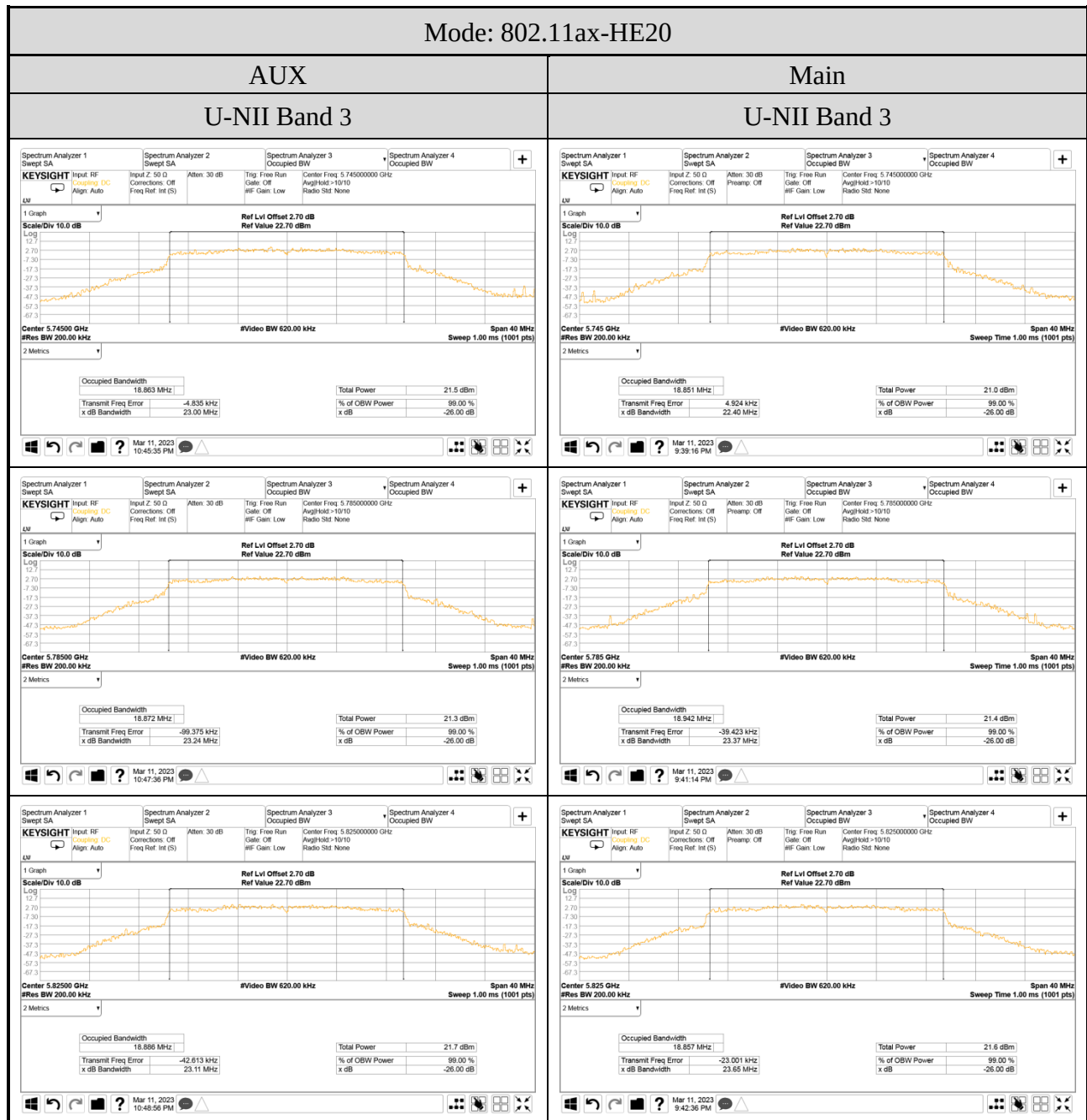
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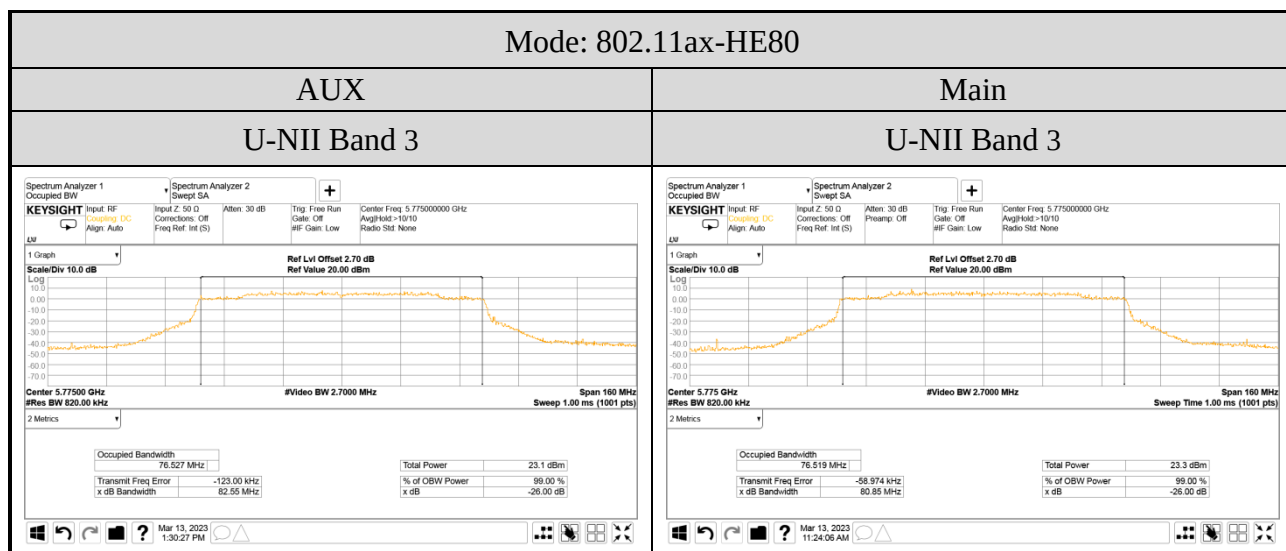
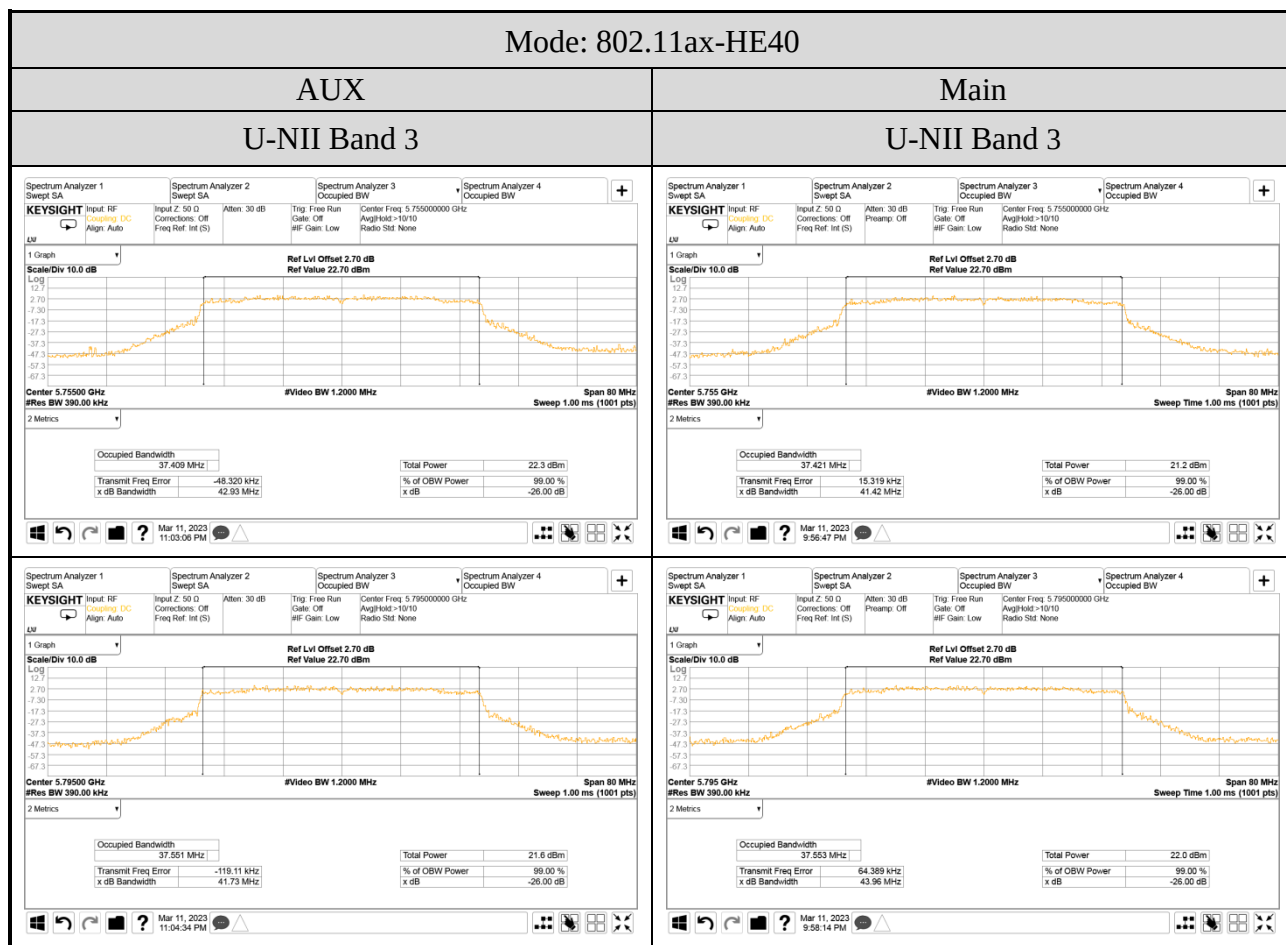
● For Occupied (99%) Bandwidth











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A.4 POWER SPECTRAL DENSITY

Test Date	2023/03/09 ~ 13	Temp./Hum.	20 ~ 23°C/48 ~ 57%
Cable Loss	2.70dB	Tested By	Sam Chang
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 10log(1/X)	Max. Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11a	1	5180	3.499	5.250	N/A	5.250	11 dBm/MHz
		5200	3.472	5.075		5.075	
		5240	3.482	4.891		4.891	
	2A	5260	3.860	4.300		4.300	
		5300	3.855	4.432		4.432	
		5320	4.259	4.367		4.367	
	2C	5500	3.499	4.125		4.125	
		5580	2.988	4.829		4.829	
		5700	3.173	4.952		4.952	
		5720	3.084	4.704		4.704	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11a	3 ^{Note2}	5745	0.666	2.697	N/A	2.697	30dBm/500 kHz
		5785	1.303	2.856		2.856	
		5825	0.258	3.156		3.156	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11n-HT20	1	5180	3.278	4.726	N/A	7.072	11 dBm/MHz
		5200	3.391	4.613		7.055	
		5240	3.073	4.370		6.780	
	2A	5260	3.472	4.358		6.948	
		5300	3.441	4.174		6.833	
		5320	3.572	3.824		6.710	
	2C	5500	3.029	3.679		6.376	
		5580	2.567	4.432		6.609	
		5700	2.774	4.875		6.961	
		5720	2.763	4.518		6.739	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11n-HT20	3 ^{Note2}	5745	-0.135	2.086	N/A	4.126	30dBm/500 kHz
		5785	0.345	2.505		4.568	
		5825	-0.280	2.800		4.538	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11n-HT40	1	5190	1.542	1.334	N/A	4.450	11 dBm/MHz
		5230	1.224	1.526		4.388	
	2A	5270	1.287	1.299		4.303	
		5310	1.087	0.253		3.700	
	2C	5510	0.634	0.013		3.345	
		5550	0.223	0.677		3.466	
		5670	0.431	0.844		3.653	
		5710	0.902	0.800		3.862	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11n-HT40	3 ^{Note2}	5755	-0.641	0.076	N/A	2.743	30dBm/500 kHz
		5795	1.317	1.006		4.175	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ac-VHT80	1	5210	-3.169	-2.752	N/A	0.055	11 dBm/MHz
	2A	5290	-2.082	-2.365		0.789	
	2C	5530	-2.044	-2.230		0.874	
		5610	-2.618	-1.891		0.771	
		5690	-1.891	-1.669		1.232	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ac-VHT80	3 Note2	5775	-3.632	-3.022	N/A	-0.306	30dBm/500 kHz

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ac-VHT160	1/2A	5250	-9.522	-8.950	N/A	-6.216	11 dBm/MHz
	2C	5570	-6.519	-6.027		-3.256	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE20	1	5180	4.537	4.431	N/A	7.495	11 dBm/MHz
		5200	4.186	4.582		7.399	
		5240	3.958	4.373		7.181	
	2A	5260	4.302	4.088		7.207	
		5300	4.545	4.040		7.310	
		5320	4.812	4.149		7.503	
	2C	5500	4.339	3.809		7.092	
		5580	4.127	4.522		7.339	
		5700	4.426	4.508		7.477	
		5720	4.394	4.407		7.411	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE20	3 ^{Note2}	5745	1.539	1.366	N/A	4.464	30dBm/500 kHz
		5785	1.394	1.686		4.553	
		5825	1.172	1.816		4.516	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE40	1	5190	1.217	1.315	N/A	4.277	11 dBm/MHz
		5230	1.076	1.274		4.186	
	2A	5270	1.328	0.990		4.173	
		5310	1.453	0.504		4.015	
	2C	5510	1.040	0.259		3.677	
		5550	1.005	0.918		3.972	
		5670	1.013	1.568		4.310	
		5710	1.477	1.124		4.314	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE40	3 ^{Note2}	5755	1.612	1.166	N/A	4.405	30dBm/500 kHz
		5795	1.498	1.499		4.509	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE80	1	5210	-3.415	-2.954	N/A	-0.168	11 dBm/MHz
	2A	5290	-2.125	-2.567		0.670	
	2C	5530	-2.057	-2.793		0.601	
		5610	-2.561	-2.110		0.681	
		5690	-2.170	-1.946		0.954	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE80	3 Note2	5775	-5.518	-4.988	N/A	-2.235	30dBm/500 kHz

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE160	1/2A	5250	-8.948	-8.512	0.092	-5.622	11 dBm/MHz
	2C	5570	-6.400	-6.405		-3.300	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE20	1	5180	26/0	6.120	5.738	0.259	9.202	11 dBm/MHz
			52/37	6.974	7.151	N/A	10.074	
			106/53	6.983	7.465	N/A	10.241	
	2A	5320	26/8	6.804	6.267	0.259	9.813	
			52/40	7.596	7.257	N/A	10.440	
			106/54	6.861	6.986	N/A	9.934	
	2C	5500	26/0	5.955	5.858	0.259	9.176	
			52/37	6.968	6.293	N/A	9.654	
			106/53	6.603	5.548	N/A	9.118	
		5700	26/8	6.952	6.581	0.259	10.040	
			52/40	7.674	7.408	N/A	10.553	
			106/54	6.987	6.837	N/A	9.923	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE20	3 ^{Note2}	5745	26/0	9.420	9.612	0.259	12.786	30dBm/500 kHz
			52/37	4.248	4.561	N/A	7.418	
			106/53	3.694	3.850	N/A	6.783	
		5825	26/8	9.559	10.292	0.259	13.210	
			52/40	4.418	4.972	N/A	7.714	
			106/54	3.657	4.146	N/A	6.919	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE40	1	5190	242/61	4.359	4.520	0.182	7.633	11 dBm/MHz
	2A	5310	242/62	4.732	3.809		7.487	
	2C	5510	242/61	4.717	3.640		7.479	
		5670	242/62	4.509	4.699		7.797	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE40	3 ^{Note2}	5755	242/61	1.082	1.389	0.182	4.431	30dBm/500 kHz
		5795	242/62	1.275	1.835		4.756	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE80	1	5210	484/65	-0.139	-3.285	N/A	1.577	11 dBm/MHz
	2A	5290	484/66	-1.822	-2.875		0.694	
	2C	5530	484/65	0.839	0.307		3.591	
		5610	484/66	0.580	1.058		3.836	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE80	3 ^{Note2}	5775	484/65	-2.073	-1.865	N/A	1.043	30dBm/500 kHz
		5775	484/66	-2.298	-1.972		0.878	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE160	1/2A	5250	996/67	-3.404	-2.871	0.132	0.013	11 dBm/MHz
			996/S67	-4.674	-5.244		-1.807	
	2C	5570	996/67	-3.398	-3.223		-0.167	
			996/S67	-2.305	-1.640		1.183	

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

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

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.