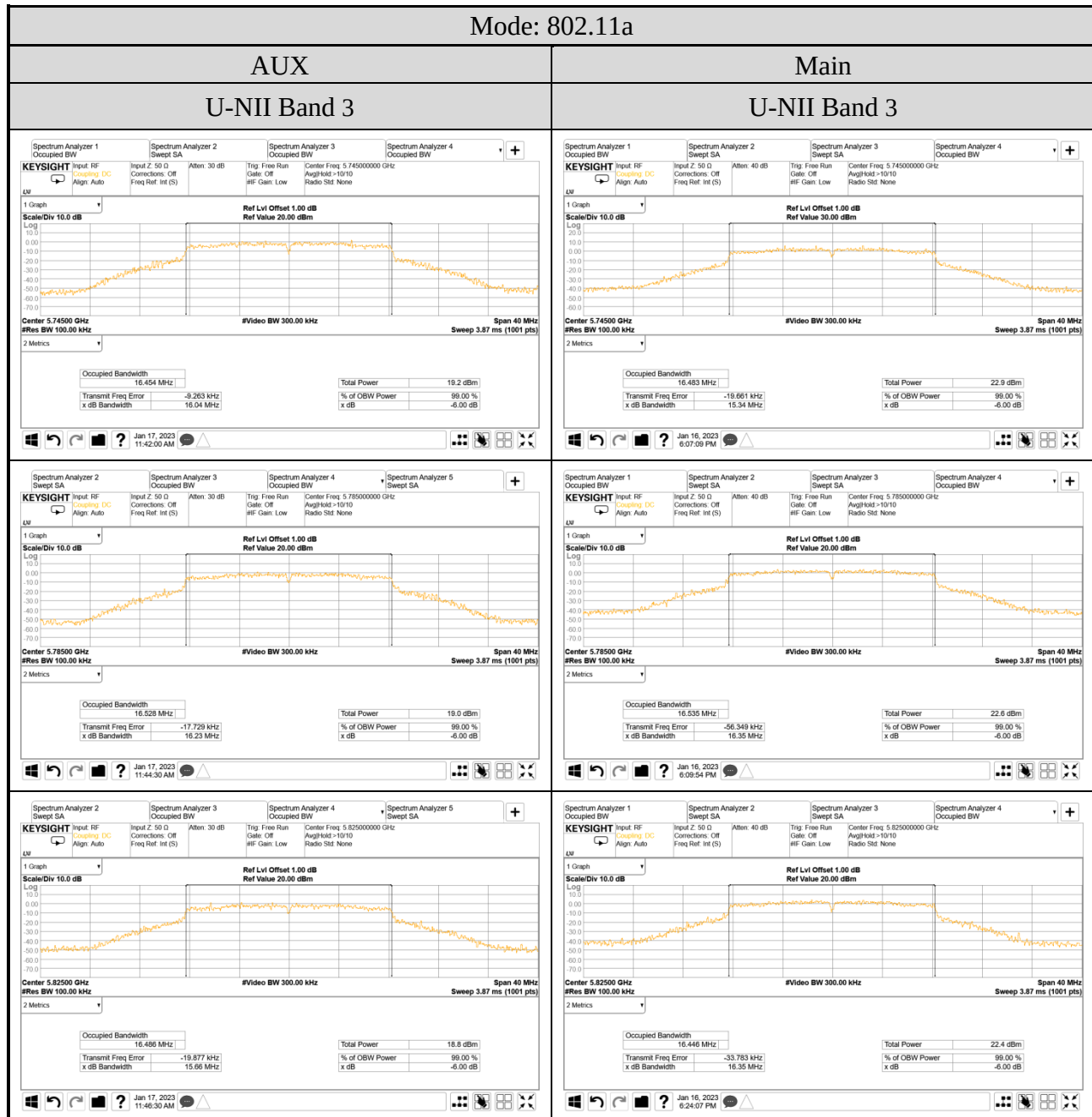
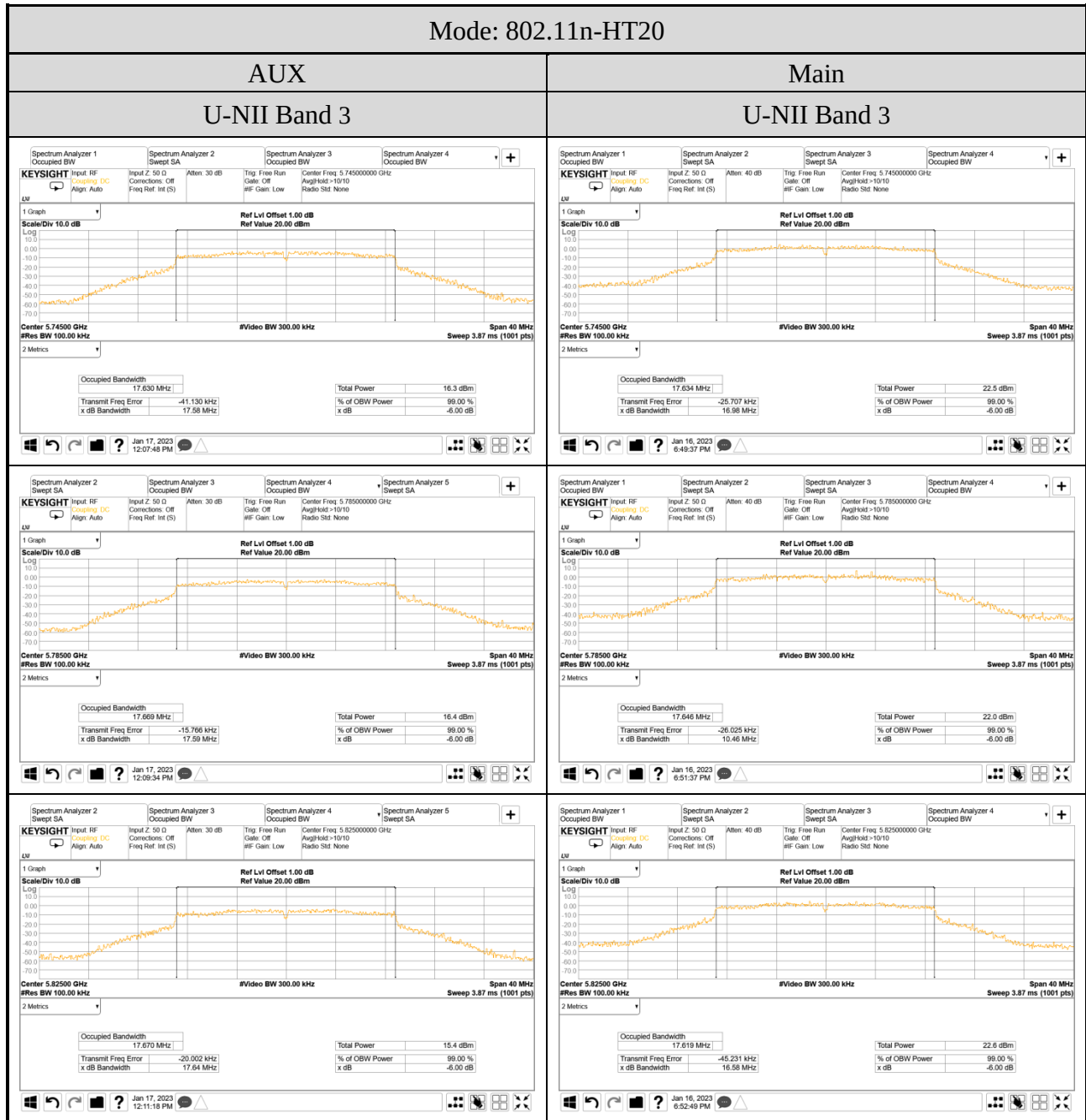


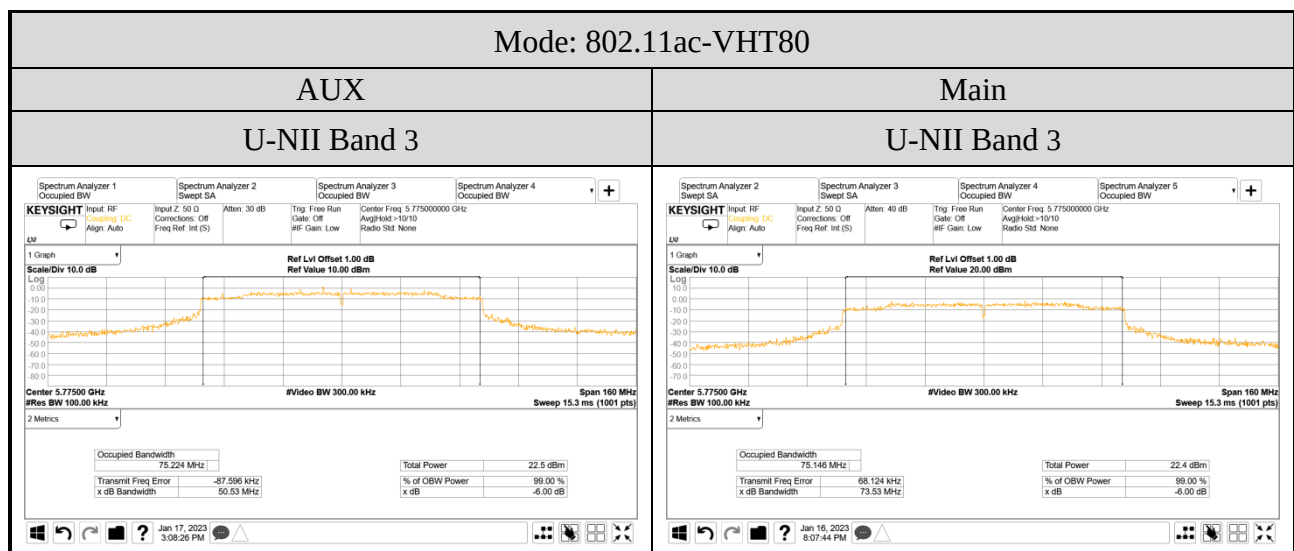
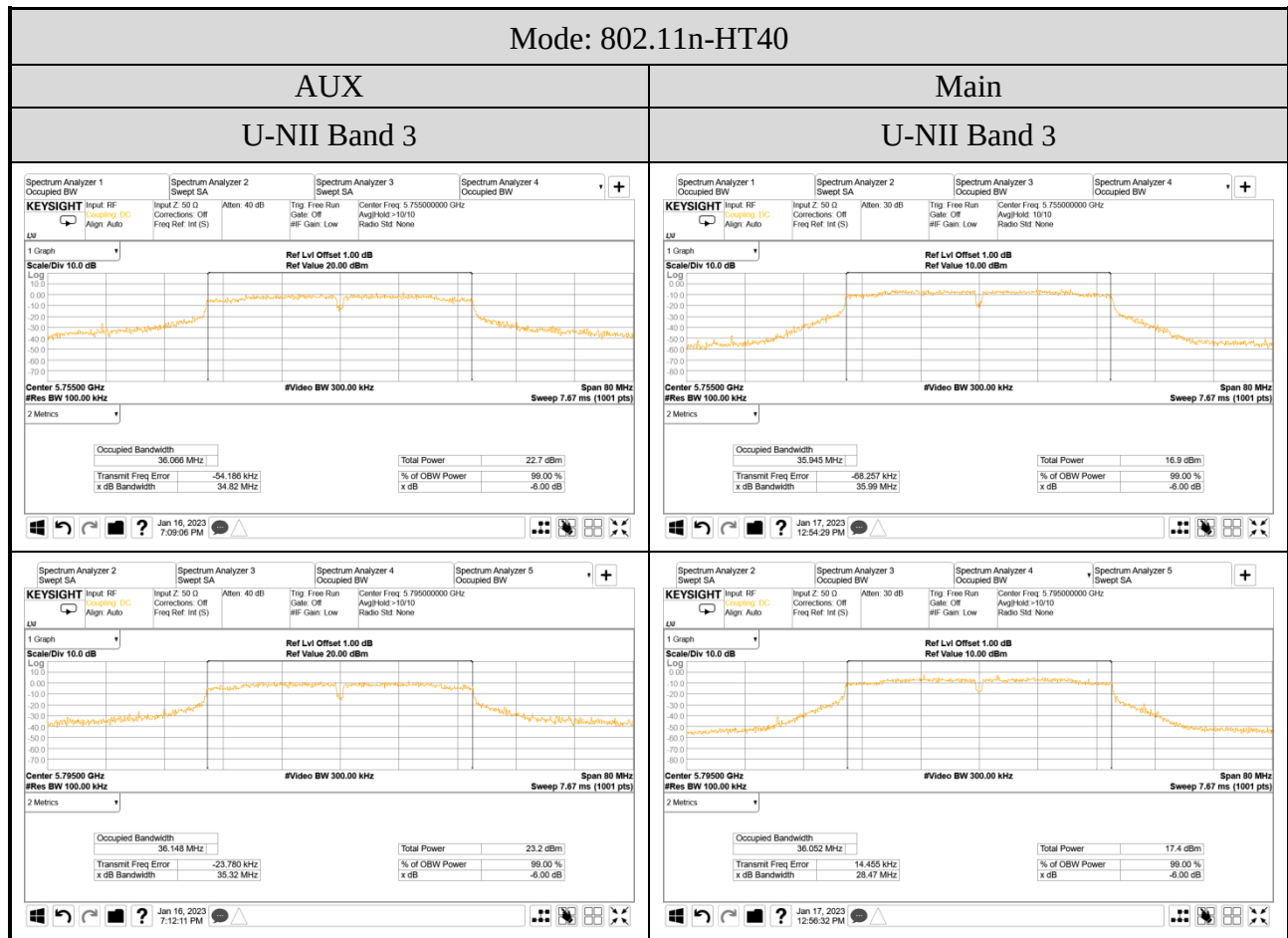
● For Emission (6dB) Bandwidth (U-NII Band 3)

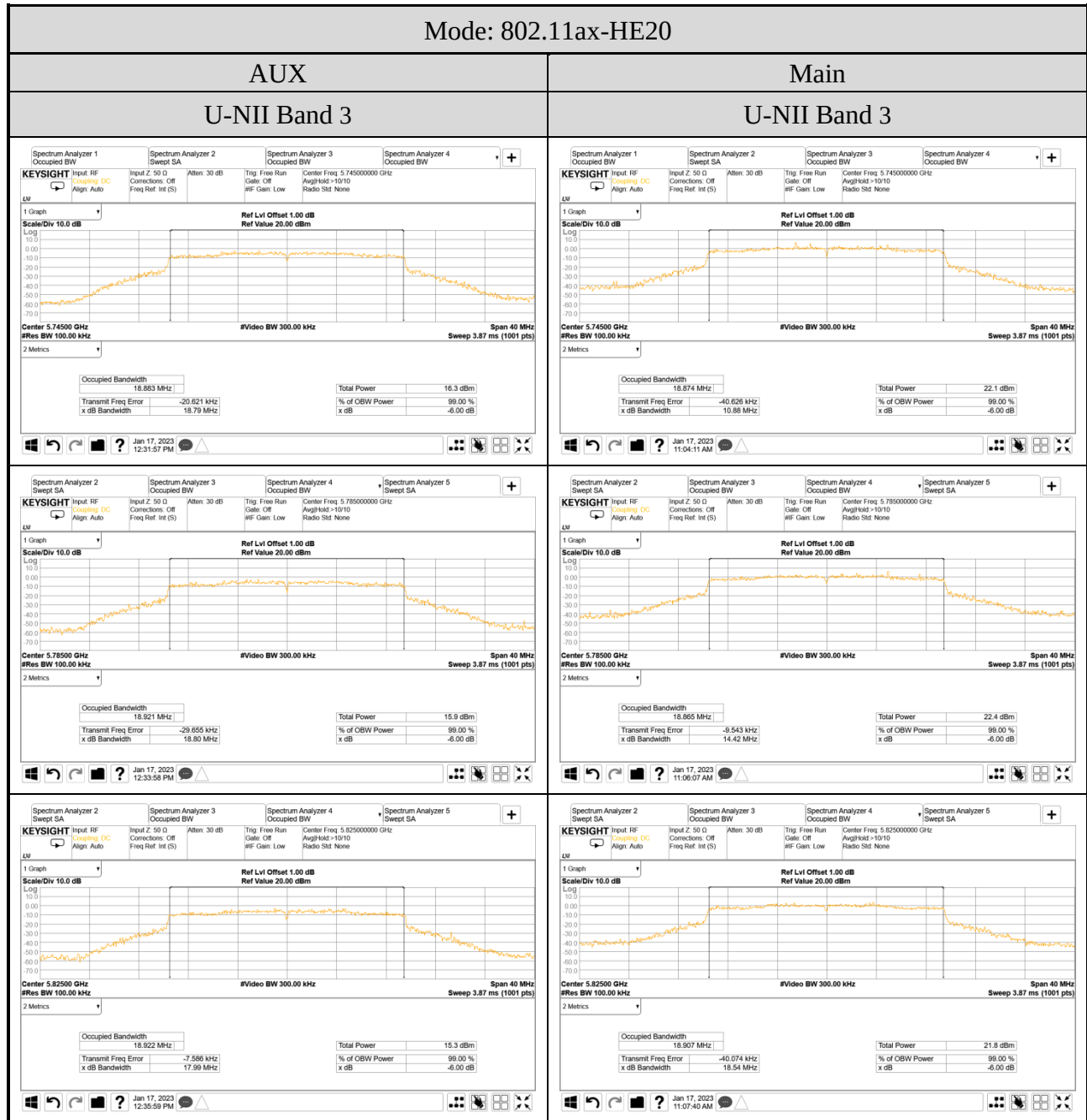


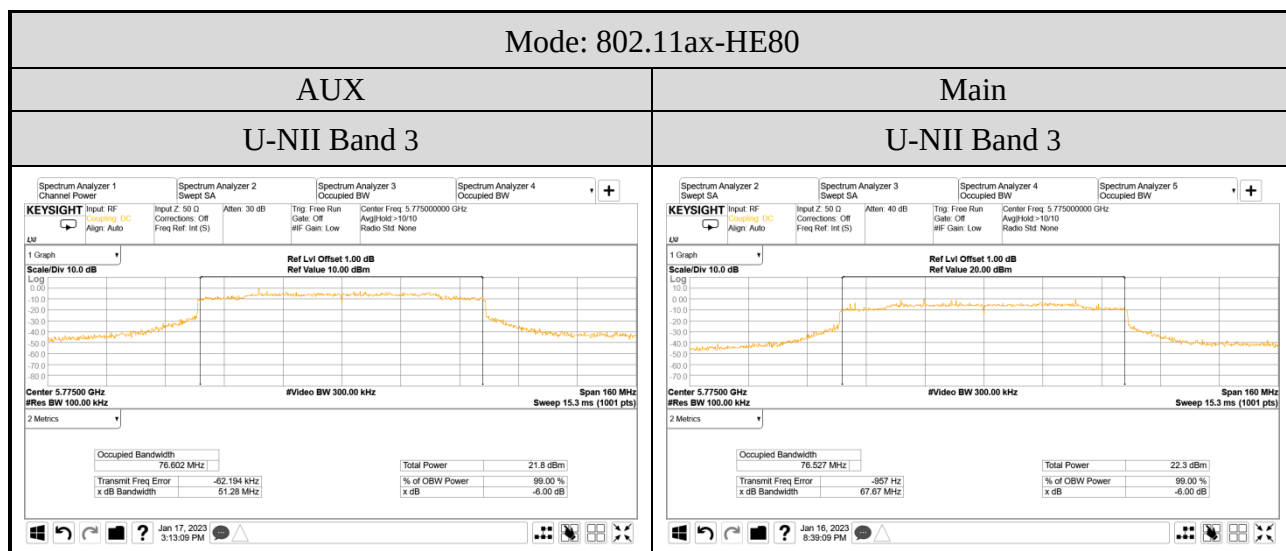
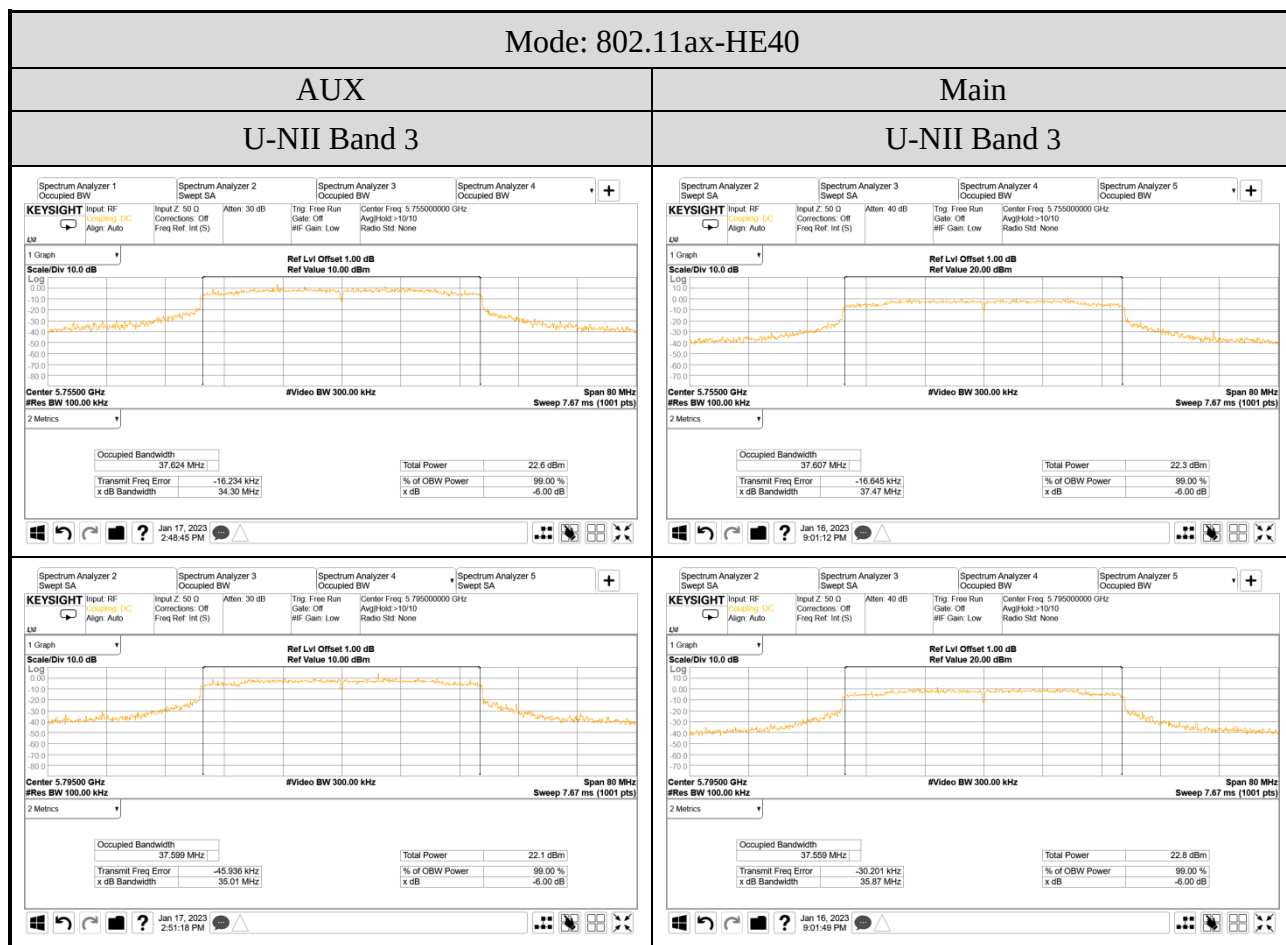
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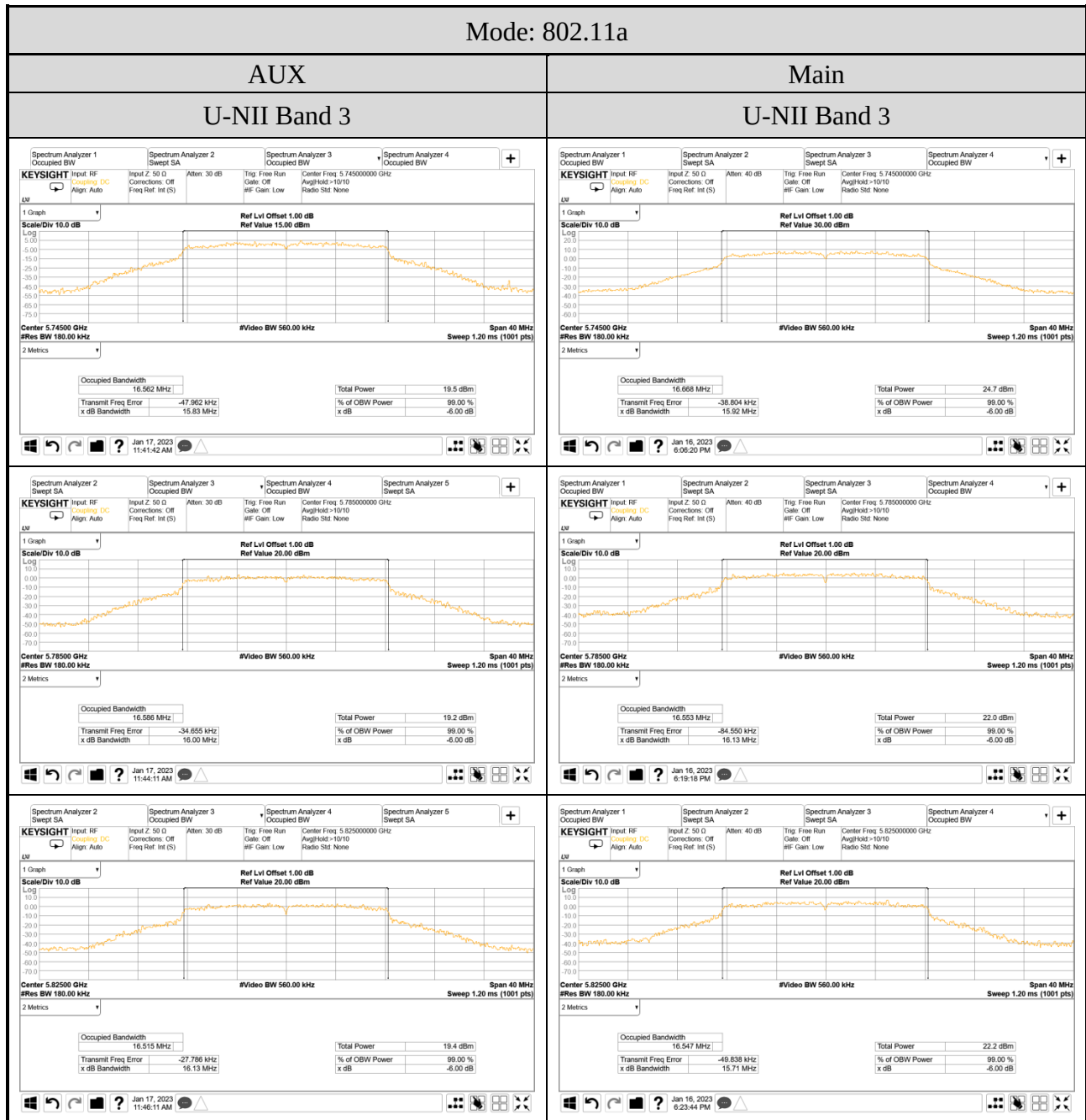


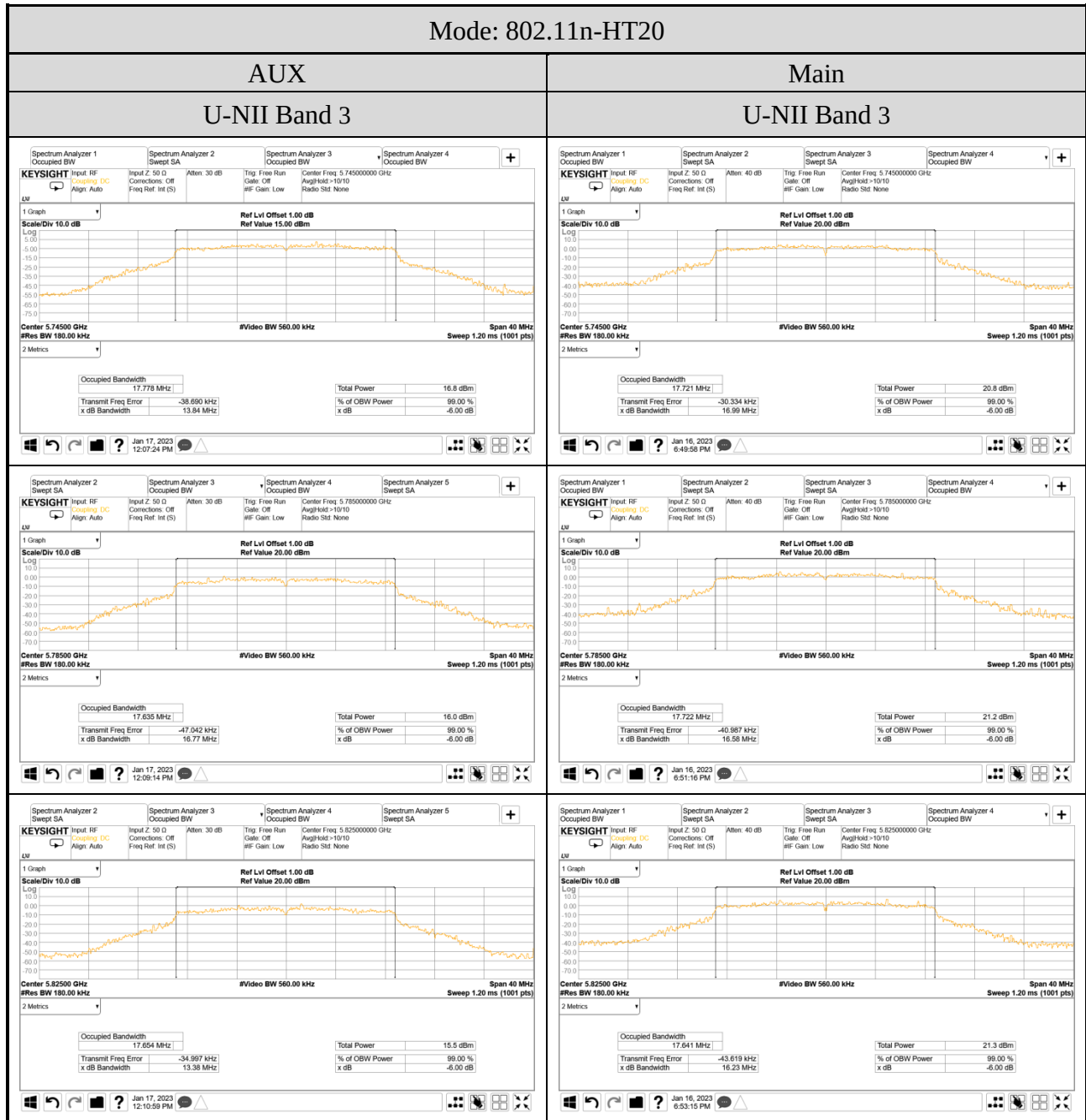


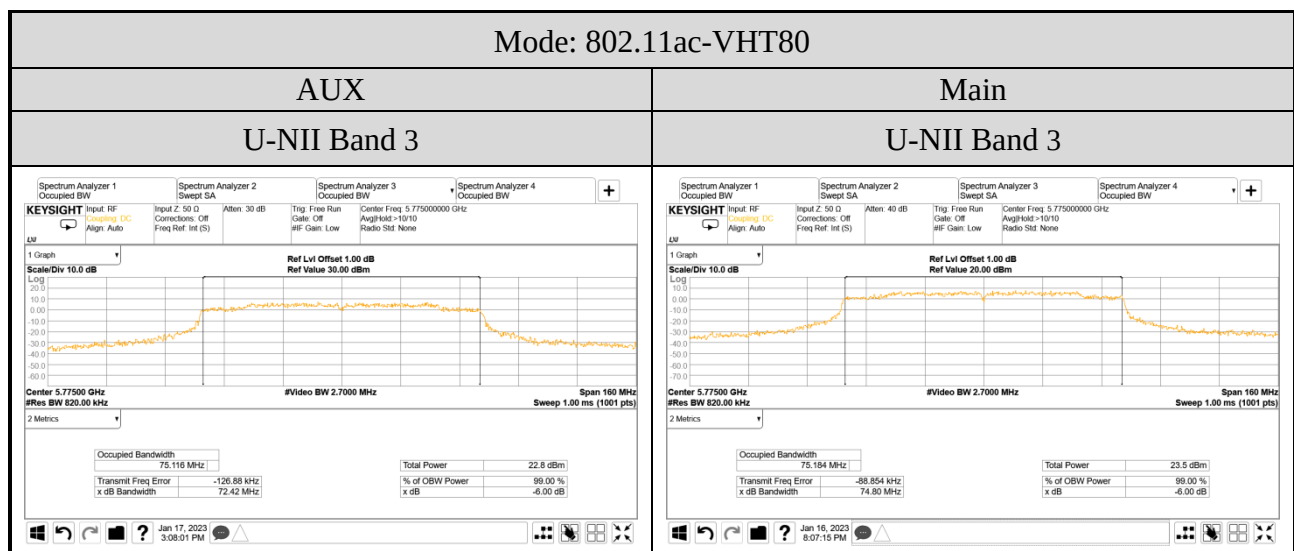
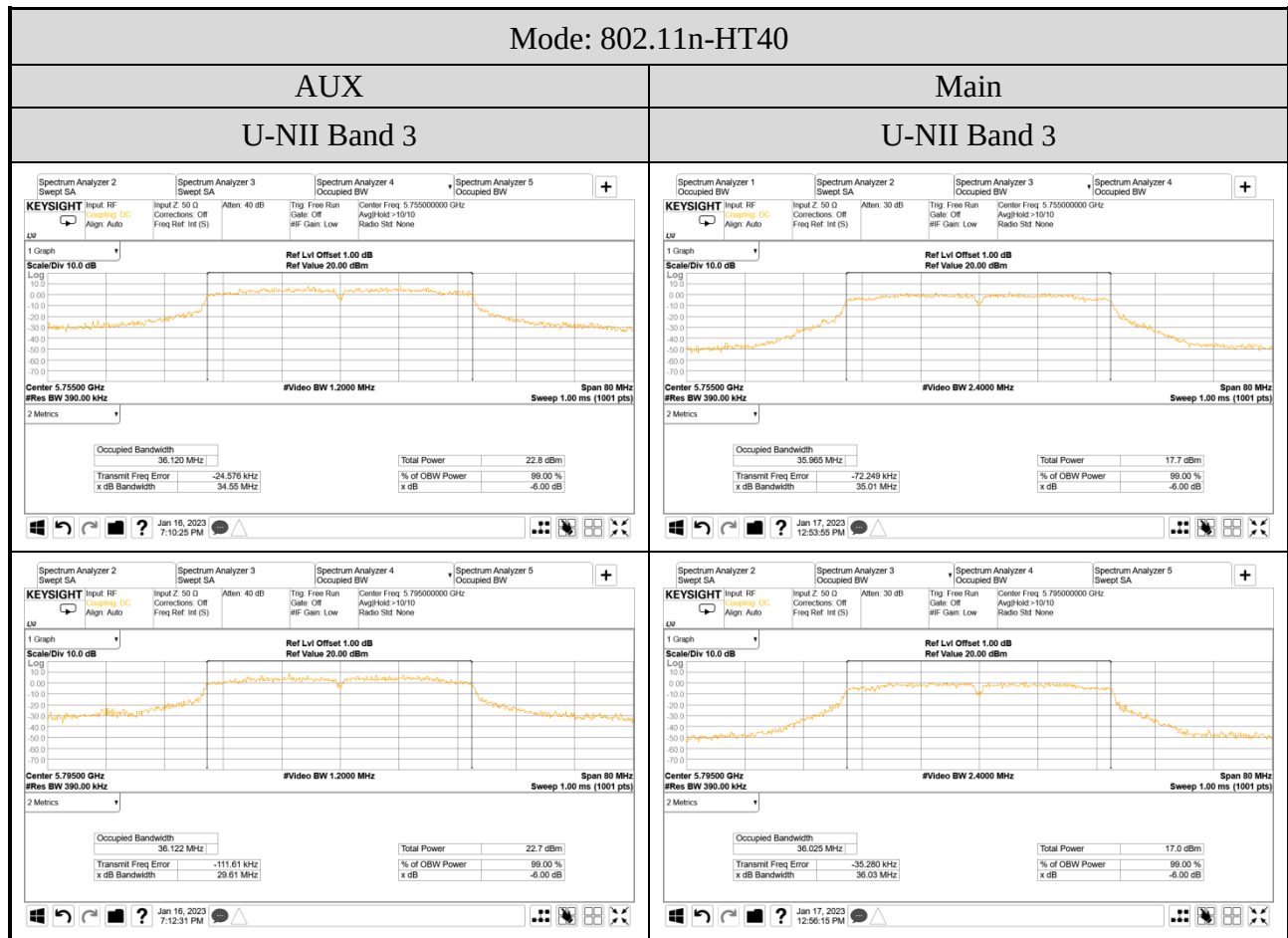
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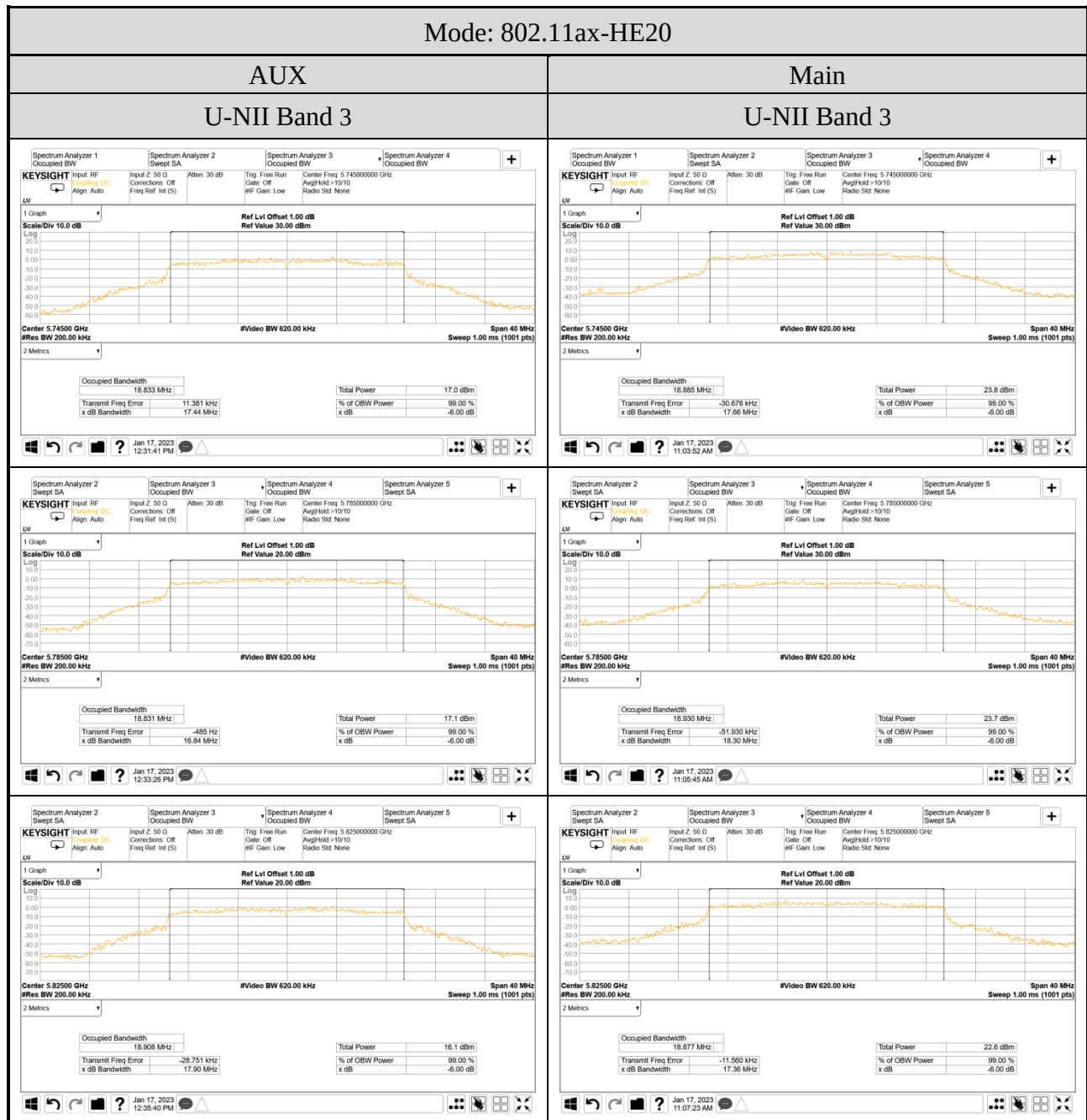
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- For Occupied (99%) Bandwidth



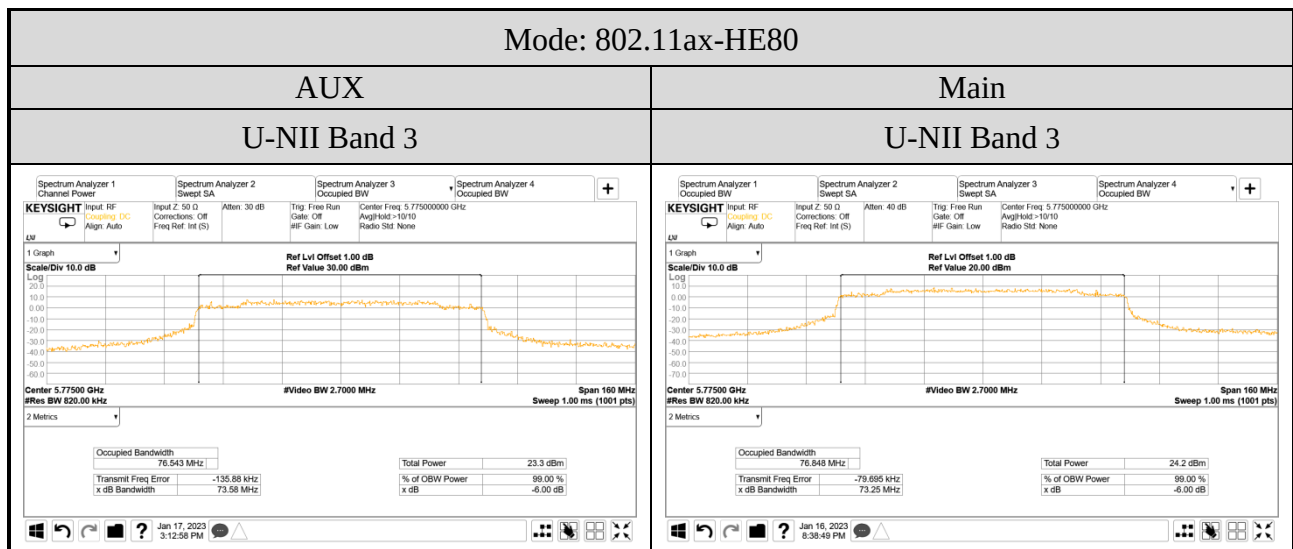
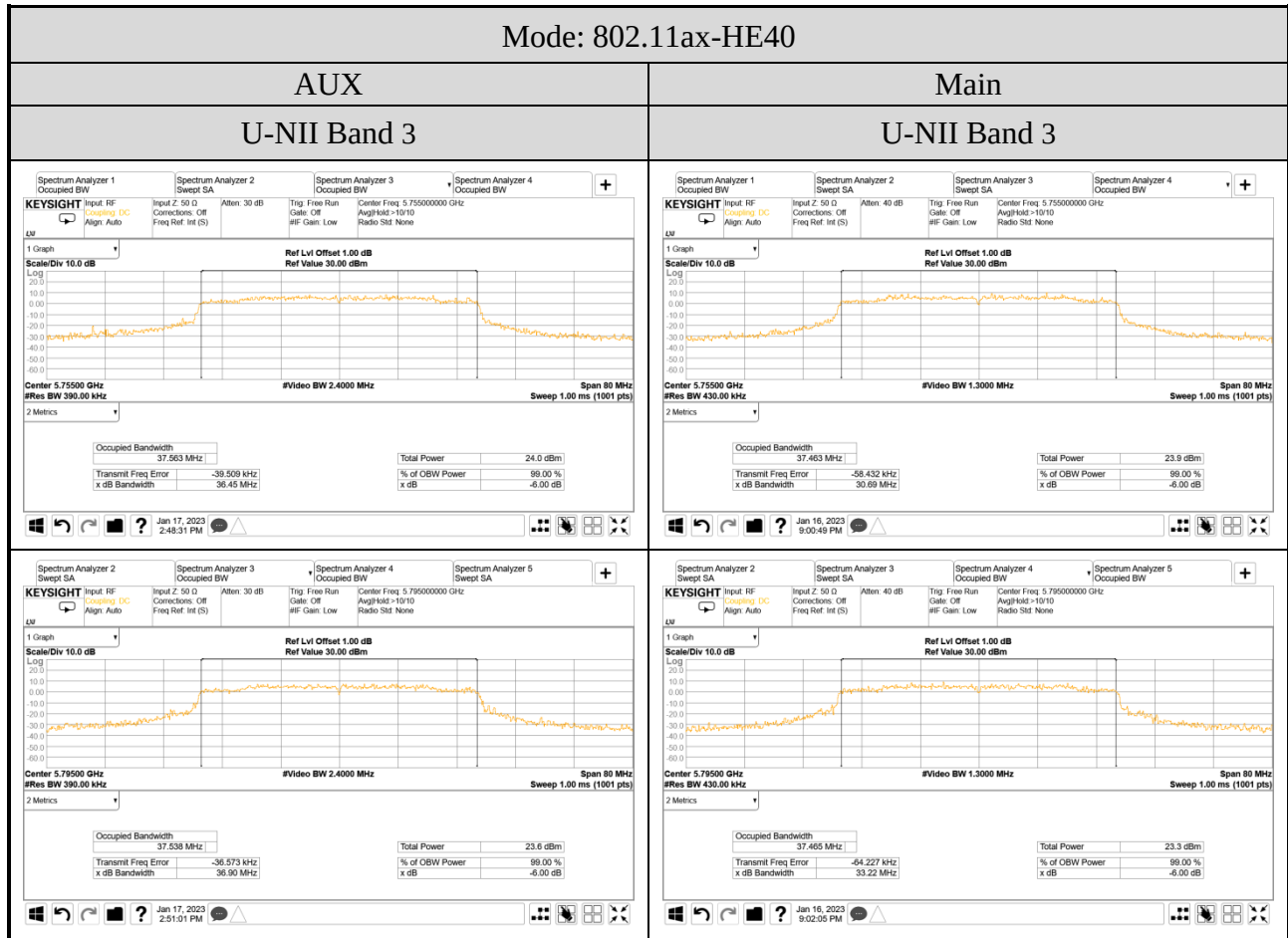






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A.4 POWER SPECTRAL DENSITY

Test Date	2023/01/16 ~ 02/02	Temp./Hum.	16 ~ 19℃/62 ~ 67%
Cable Loss	1.0dB	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	8.335	8.239	N/A	8.335	11 dBm/MHz
		5200	9.145	8.994		9.145	
		5240	9.104	9.202		9.202	
	2A	5260	8.972	9.053		9.053	
		5300	8.965	9.052		9.052	
		5320	8.431	8.215		8.431	
	2C	5500	8.456	8.237		8.456	
		5580	9.205	9.187		9.205	
		5700	8.778	8.556		8.778	
		5720	9.175	9.159		9.175	

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	6.862	7.128	N/A	7.128	30dBm/500 kHz
		5785	7.157	7.144		7.157	
		5825	6.778	7.110		7.110	

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	6.165	5.917	N/A	9.053	11 dBm/MHz
		5200	6.980	6.710		9.857	
		5240	6.955	6.616		9.799	
	2A	5260	7.014	6.923		9.979	
		5300	6.677	6.531		9.615	
		5320	6.161	5.910		9.048	
	2C	5500	6.799	6.556		9.689	
		5580	7.322	6.927		10.139	
		5700	6.671	6.177		9.441	
		5720	7.616	7.372		10.506	

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	5.378	6.229	N/A	8.835	30dBm/500 kHz
		5785	6.962	6.312		9.659	
		5825	6.860	6.702		9.792	

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	1.271	0.021	N/A	3.701	11 dBm/MHz
		5230	6.041	5.385		8.736	
	2A	5270	5.939	5.336		8.658	
		5310	1.032	0.435		3.754	
	2C	5510	2.861	1.933		5.432	
		5550	5.981	5.447		8.733	
		5670	5.124	4.124		7.663	
		5710	3.625	2.804		6.244	

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	3.680	3.038	N/A	6.381	30dBm/500 kHz
		5795	2.642	2.866		5.766	

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	-2.778	-4.130	N/A	-0.391	11 dBm/MHz
	2A	5290	-2.034	-3.313		0.384	
	2C	5530	-1.780	-2.466		0.901	
		5610	2.664	2.104		5.403	
		5690	2.650	2.086		5.387	

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	-0.089	-1.948	N/A	2.091	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	-8.666	-9.519	N/A	-6.061	11 dBm/MHz
	2C	5570	-5.290	-6.178		-2.701	

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	5.152	4.991	N/A	8.083	11 dBm/MHz
		5200	7.072	5.815		9.499	
		5240	6.821	6.037		9.457	
	2A	5260	6.958	6.040		9.534	
		5300	6.699	6.097		9.419	
		5320	6.428	5.204		8.869	
	2C	5500	6.699	6.264		9.497	
		5580	7.166	6.270		9.751	
		5700	6.474	6.032		9.269	
		5720	7.401	7.882		10.658	

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	5.252	5.203	N/A	8.238	30dBm/500 kHz
		5785	5.156	4.970		8.074	
		5825	5.418	5.284		8.362	

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			
802.11ax-HE40	1	5190	0.924	0.327	N/A	3.646	11 dBm/MHz
		5230	5.583	4.597		8.128	
	2A	5270	5.665	4.786		8.258	
		5310	0.733	0.185		3.478	
	2C	5510	2.740	2.361		5.565	
		5550	6.119	5.281		8.730	
		5670	4.529	3.661		7.127	
		5710	3.187	3.086		6.147	

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	1.911	1.635	N/A	4.785	30dBm/500 kHz
		5795	2.288	1.875		5.097	

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	-3.063	-3.346	N/A	-0.192	11 dBm/MHz
	2A	5290	-1.998	-2.351		0.839	
	2C	5530	-1.890	-2.118		1.008	
		5610	2.979	2.400		5.709	
		5690	2.365	1.957		5.176	

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	-0.854	-1.436	N/A	1.875	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	-8.978	-10.039	0.092	-6.374	11 dBm/MHz
	2C	5570	-5.606	-6.283		-2.829	

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	6.087	5.825	0.269	9.237	11 dBm/MHz
			52/37	6.760	6.957	0.132	10.002	
			106/53	6.621	6.842	N/A	9.743	
	2A	5320	26/8	5.816	5.523	0.269	8.951	
			52/40	6.694	6.517	0.132	9.749	
			106/54	5.865	5.983	N/A	8.935	
	2C	5500	26/0	6.481	6.177	0.269	9.611	
			52/37	7.180	7.103	0.132	10.284	
			106/53	6.366	6.380	N/A	9.383	
		5700	26/8	5.314	5.107	0.269	8.491	
			52/40	6.599	6.170	0.132	9.532	
			106/54	5.989	5.729	N/A	8.871	

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	9.523	8.796	0.269	12.454	30dBm/500 kHz
			52/37	4.164	3.819	0.132	7.137	
			106/53	5.262	5.190	N/A	8.236	
		5825	26/8	9.083	8.869	0.269	12.257	
			52/40	3.919	4.054	0.132	7.129	
			106/54	4.789	4.917	N/A	7.864	

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	4.709	4.966	0.150	8.000	11 dBm/MHz
	2A	5310	242/62	3.907	4.160		7.196	
	2C	5510	242/61	6.311	6.260		8.528	
		5670	242/62	5.444	5.281		8.524	

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	5.371	5.186	0.150	8.440	30dBm/500 kHz
		5795	242/62	5.720	5.497		8.770	

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	-0.615	-0.549	0.092	2.520	11 dBm/MHz
	2A	5290	484/66	-3.176	-3.360		-0.165	
	2C	5530	484/65	0.350	0.106		3.332	
		5610	484/66	4.545	4.118		7.439	

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	-3.452	-3.591	0.092	-0.419	30dBm/500 kHz
		5775	484/66	-3.447	-3.259		-0.250	

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	-3.919	-3.904	1.191	-0.710	11 dBm/MHz
			996/S67	-5.212	-5.920		-2.350	
	2C	5570	996/67	-3.241	-3.815		-0.317	
			996/S67	-0.553	-0.702		2.574	

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%.