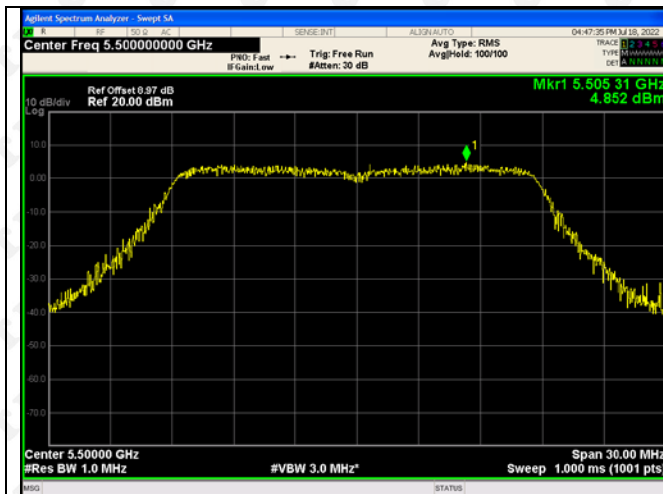
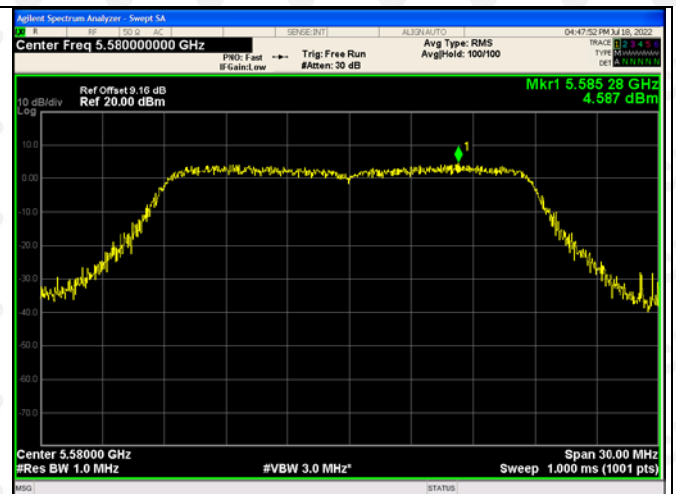
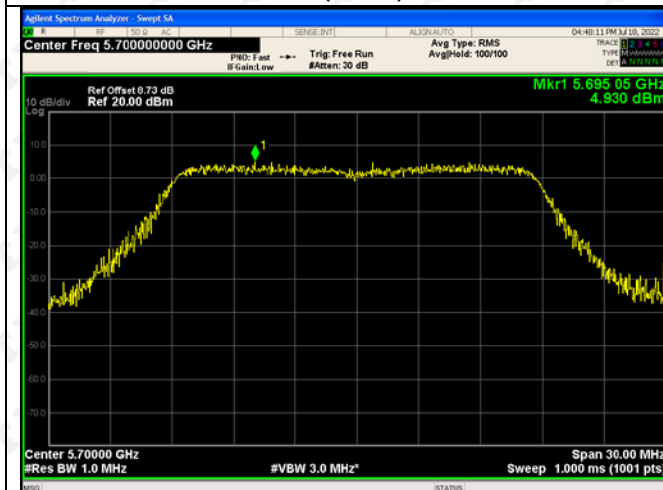




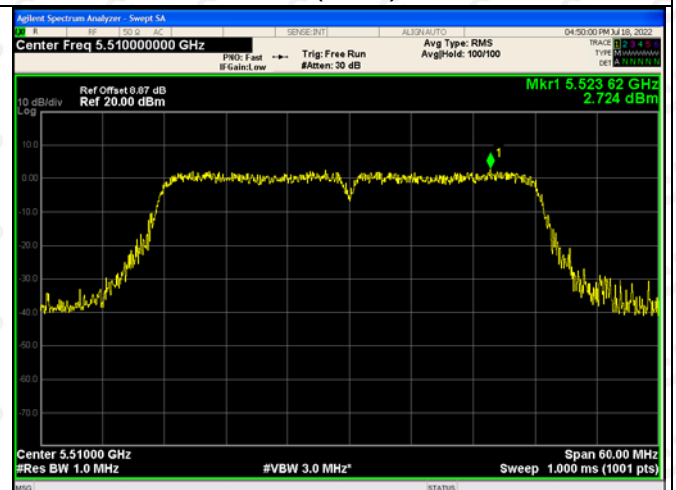
802.11ac(VH20)-5700



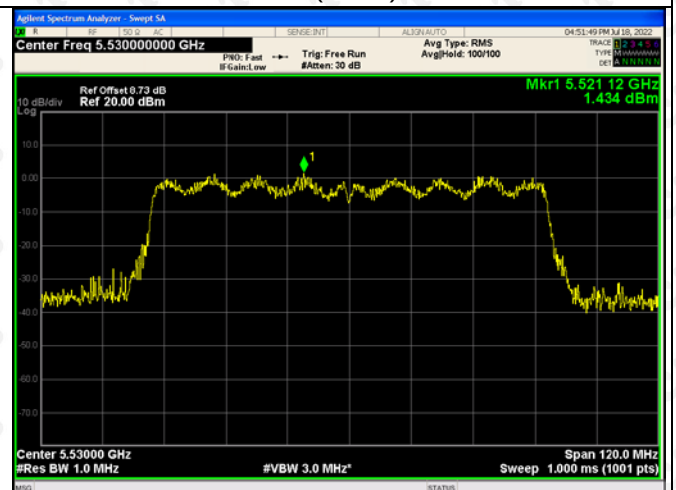
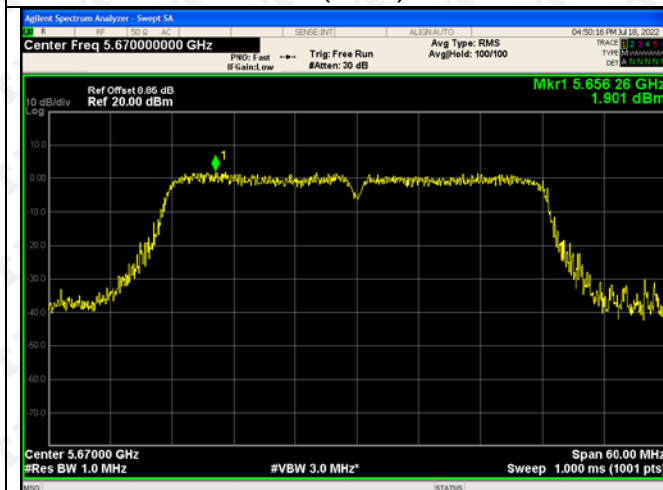
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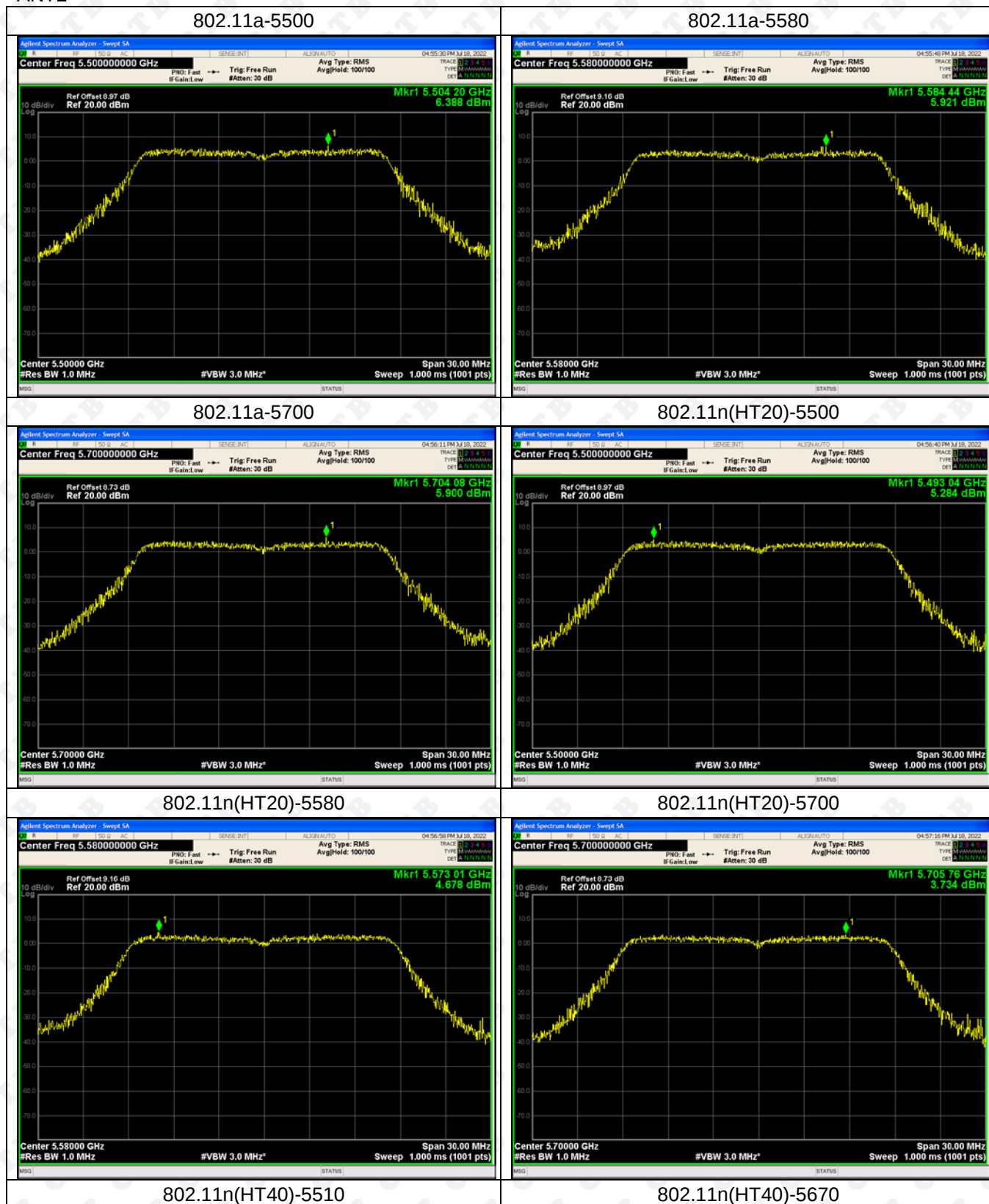
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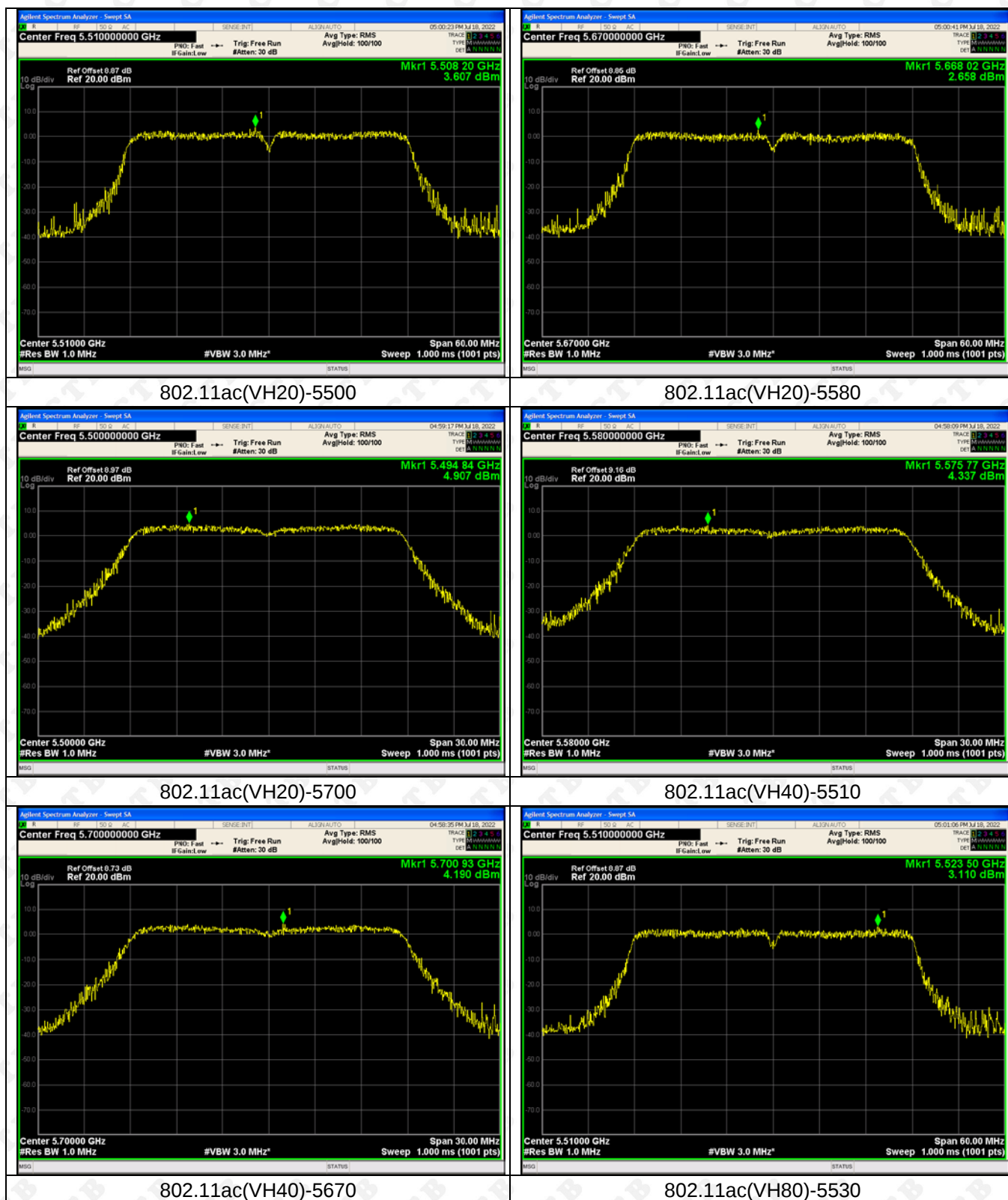


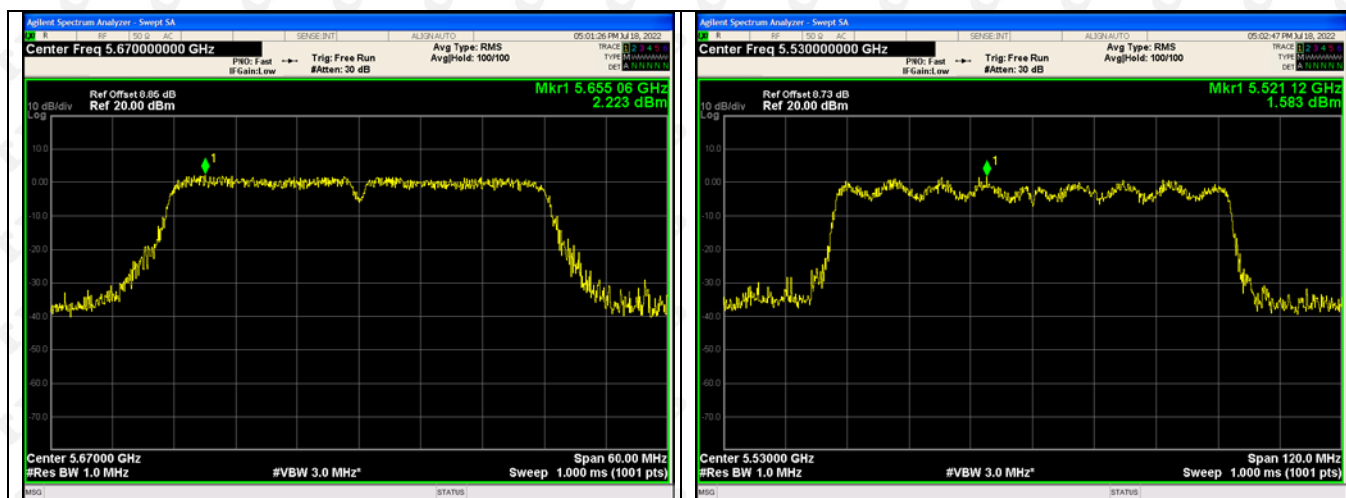
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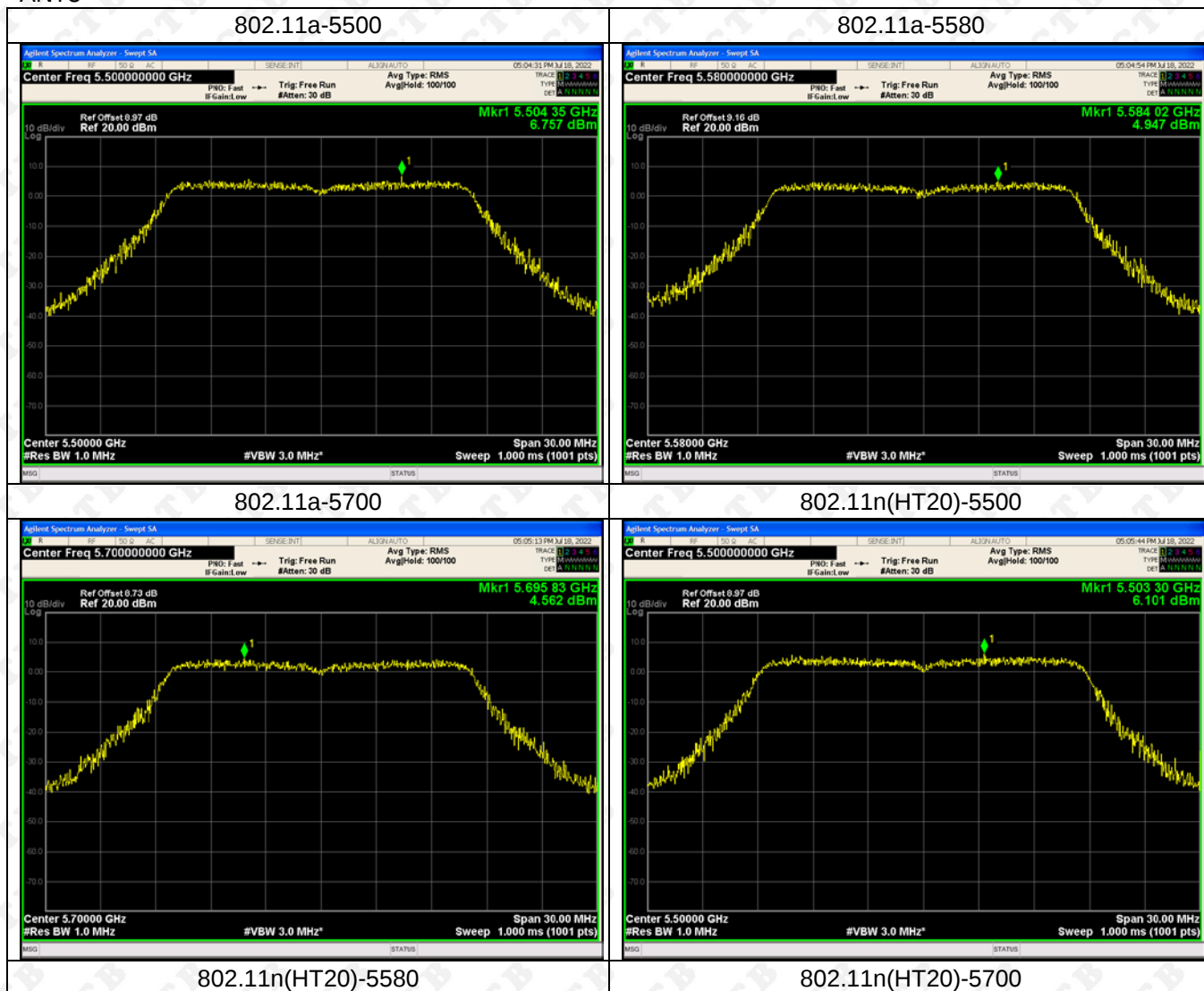
ANT2

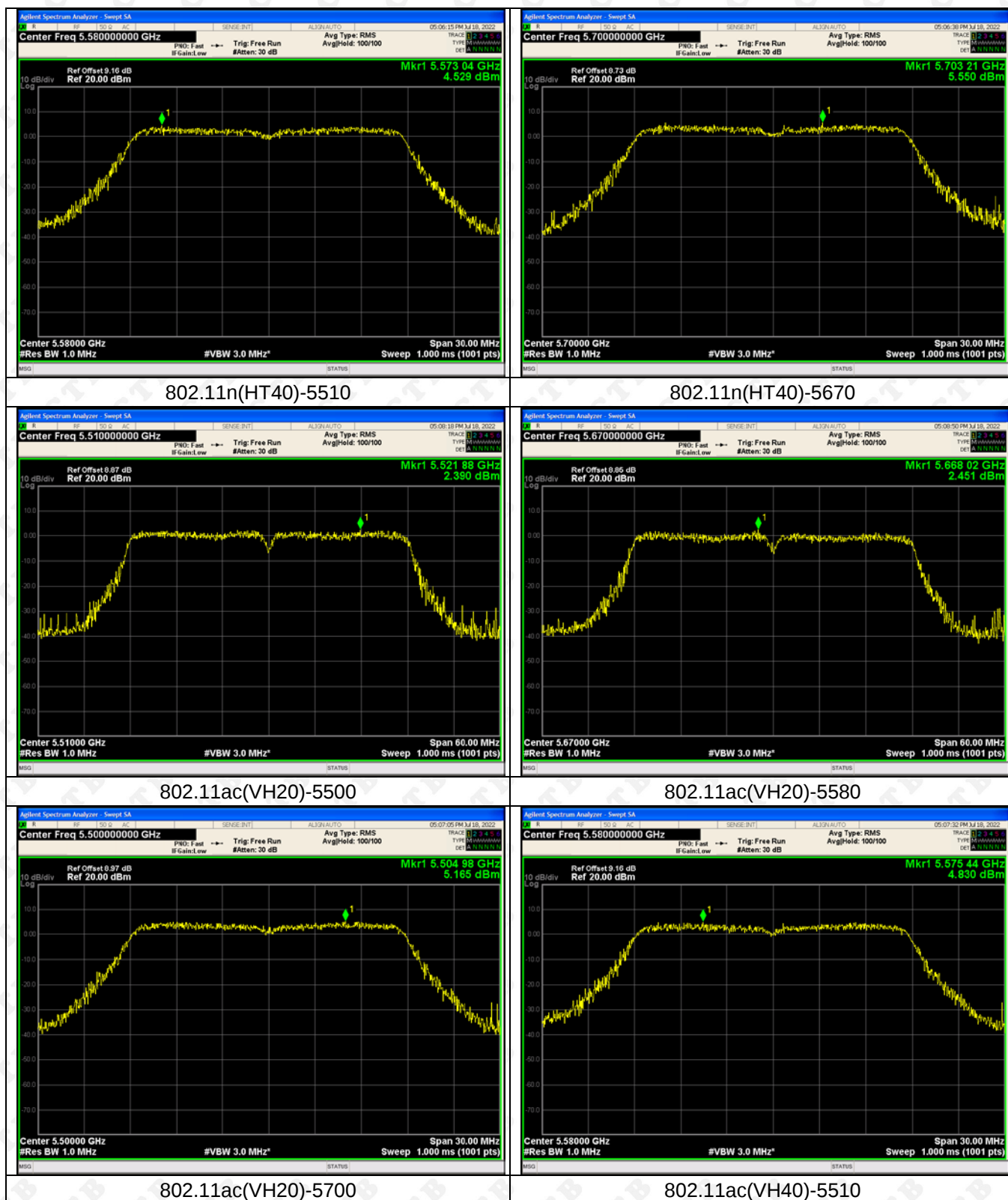


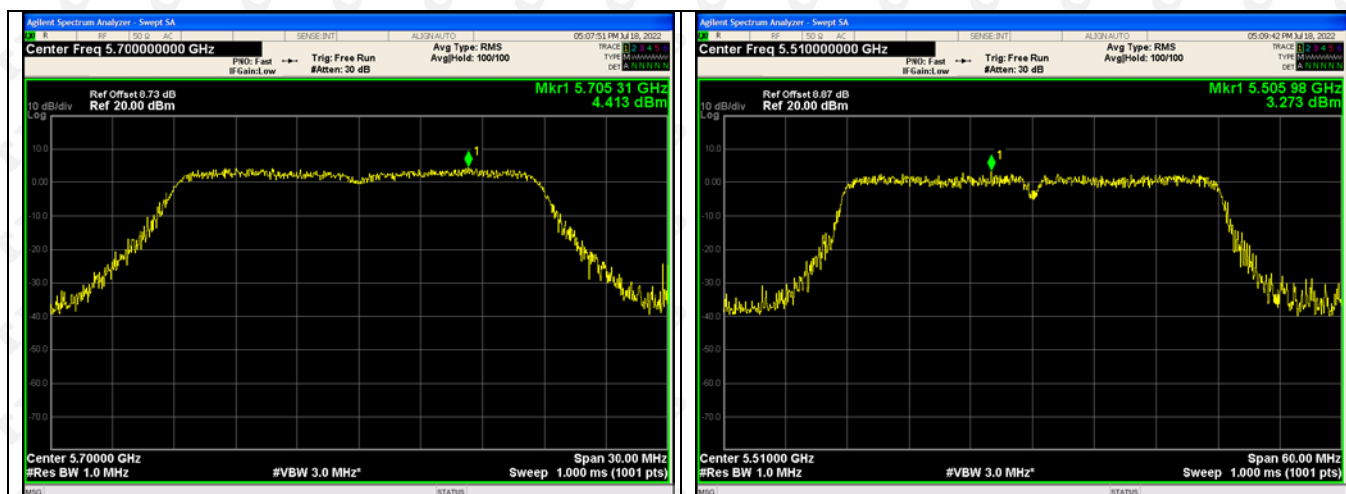




ANT3

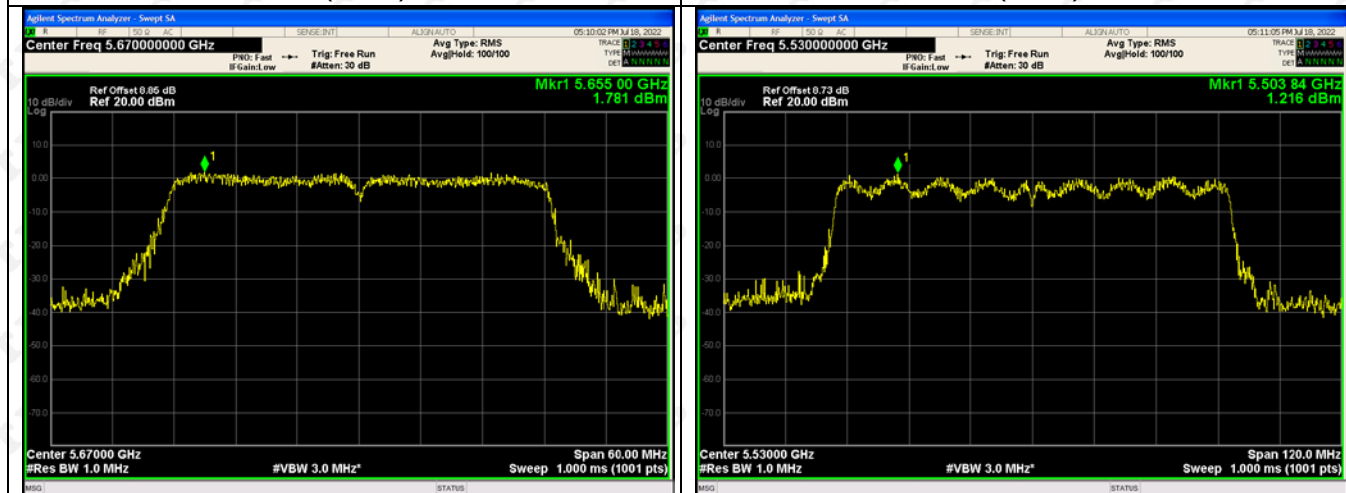






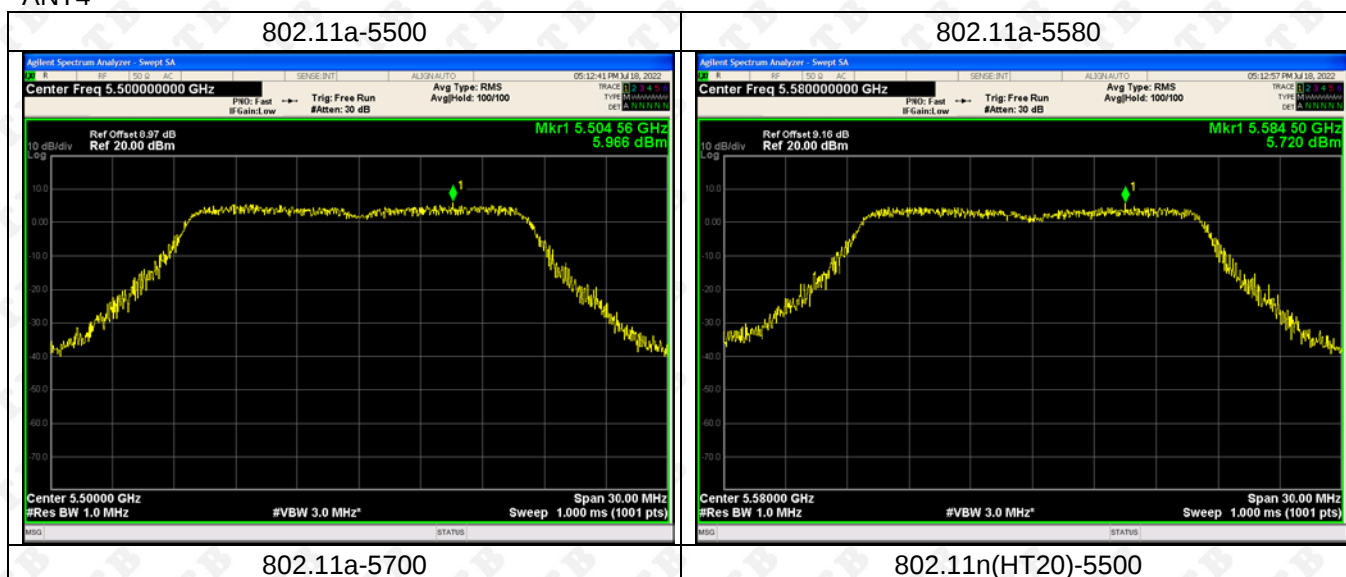
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802.11ac(VH80)-5530



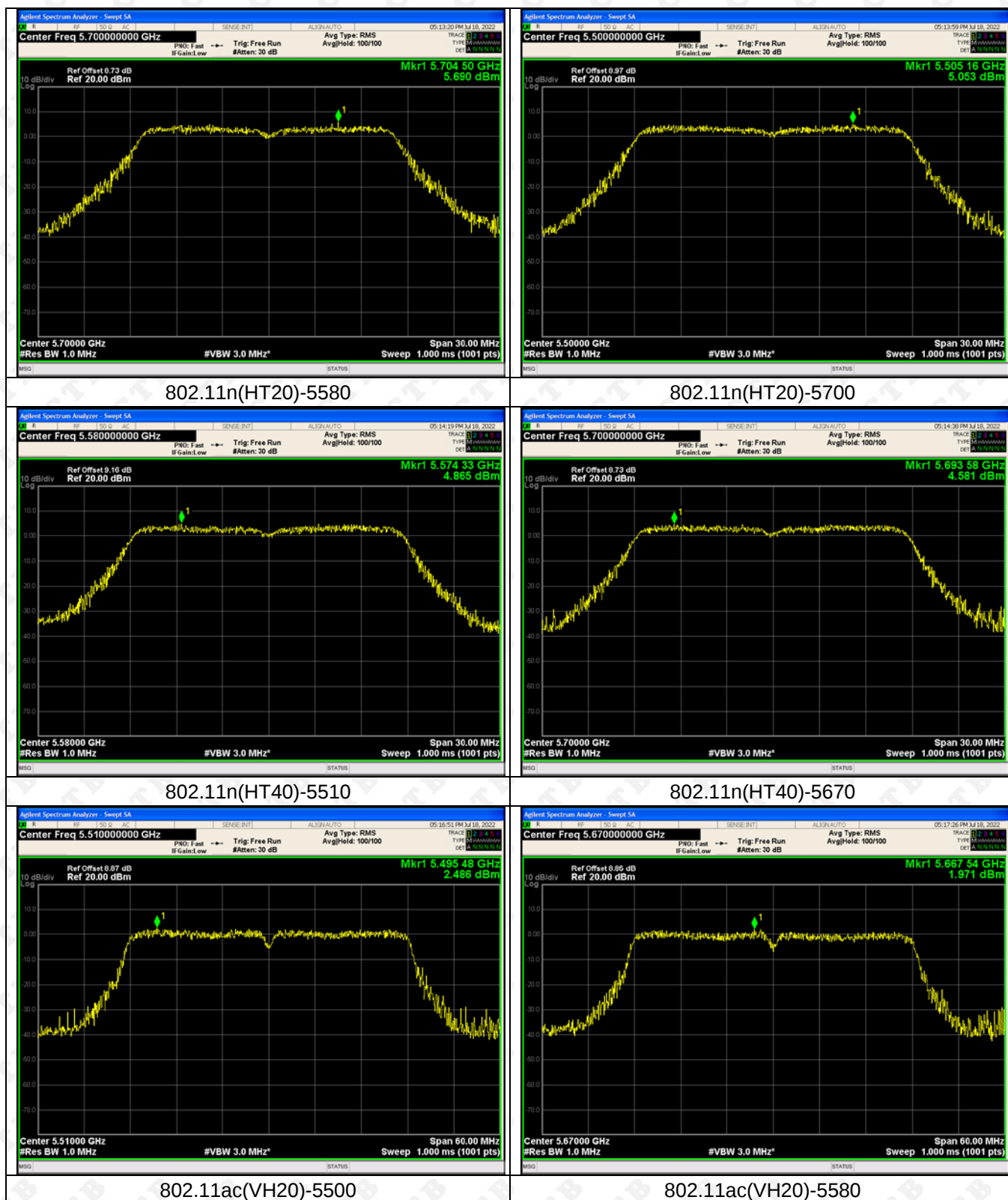
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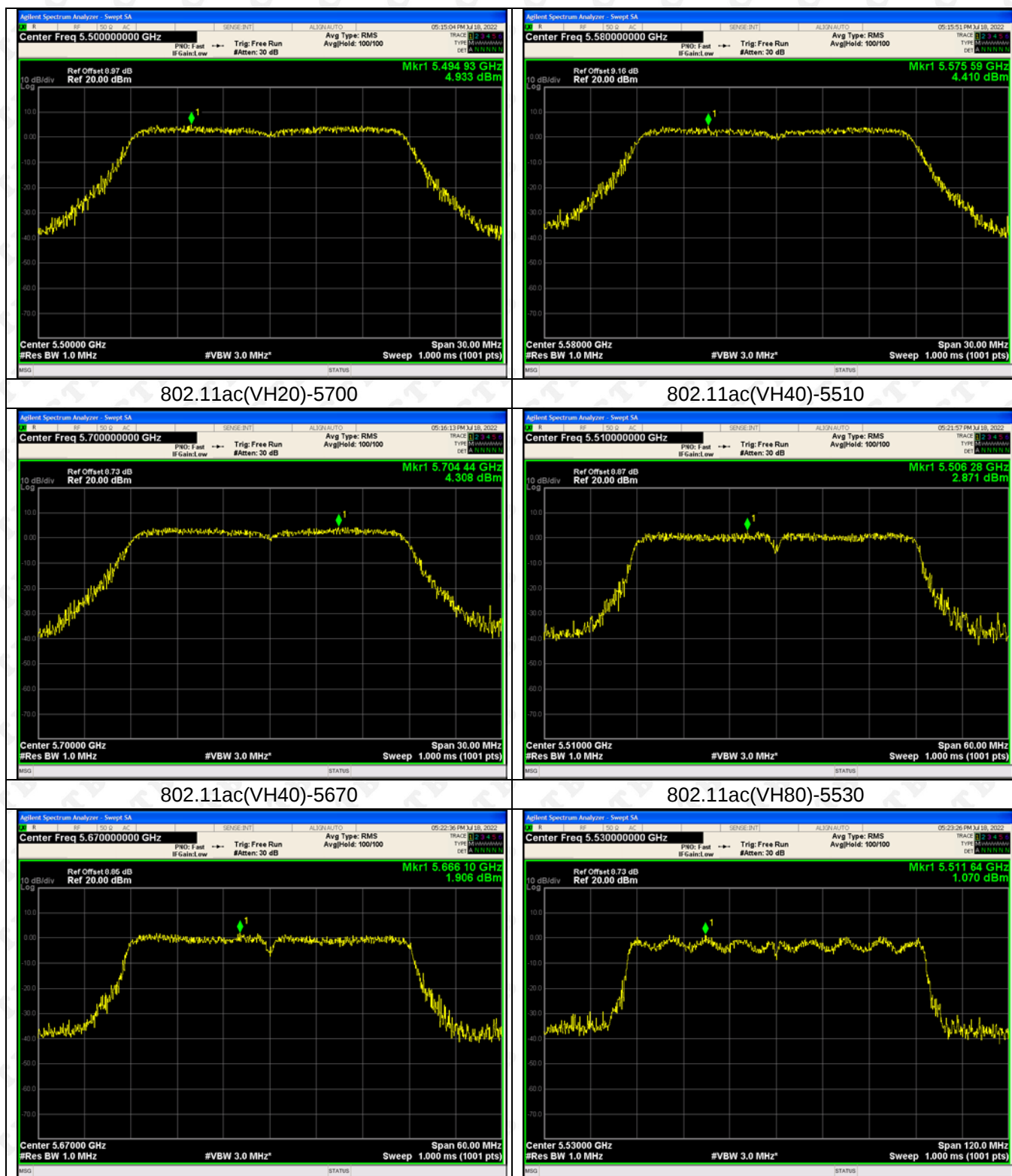
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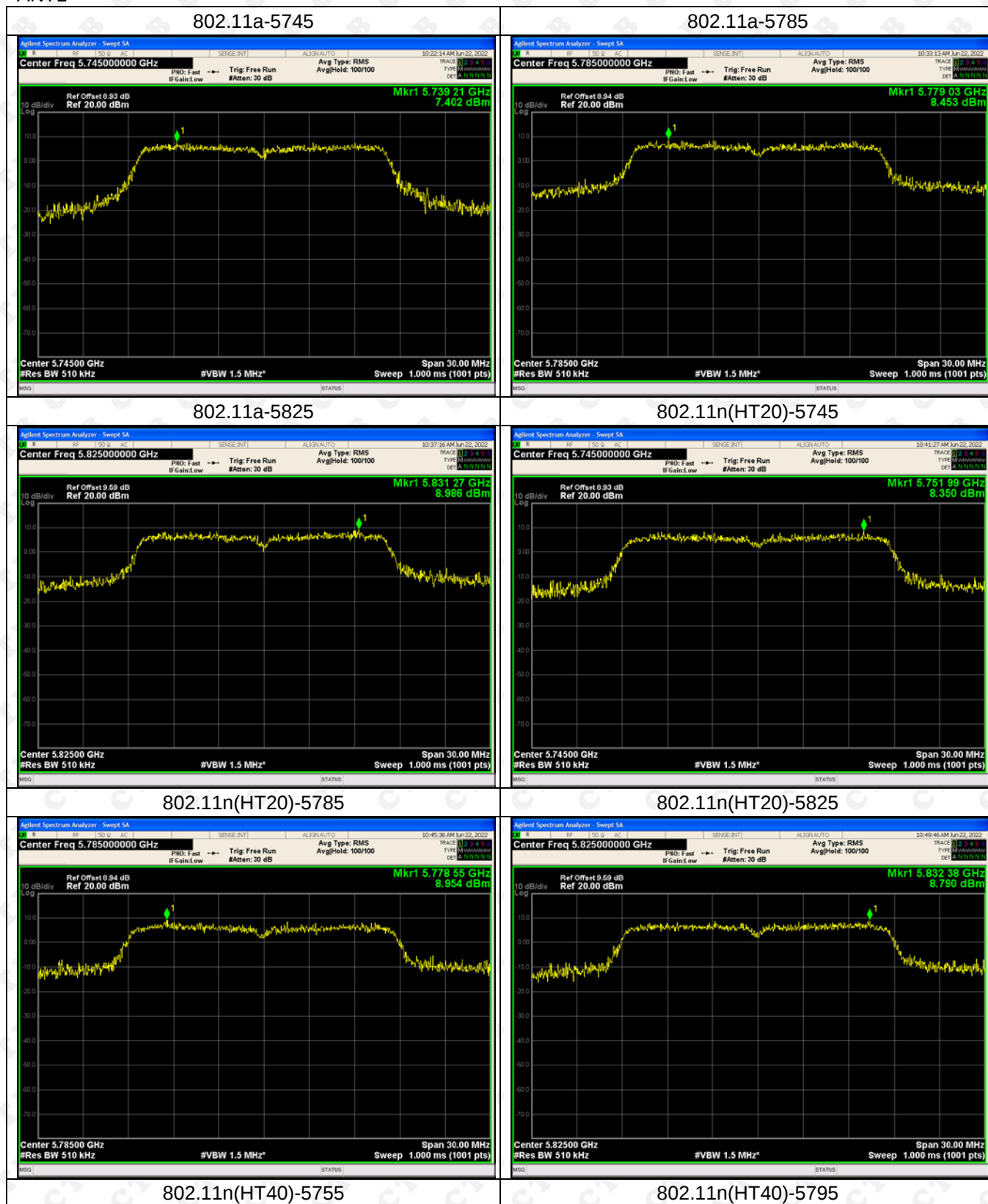
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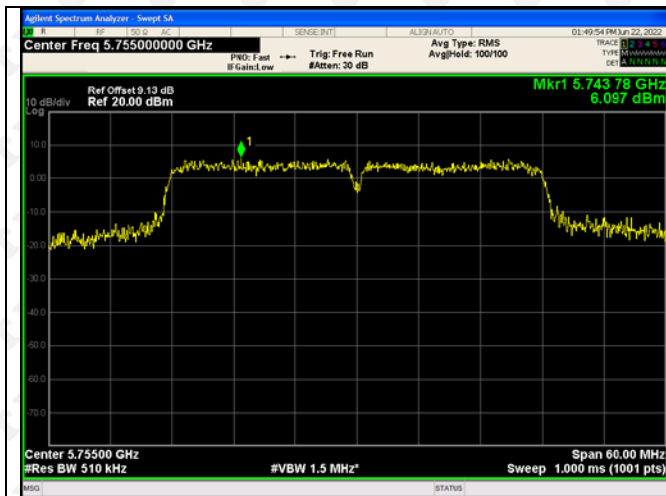
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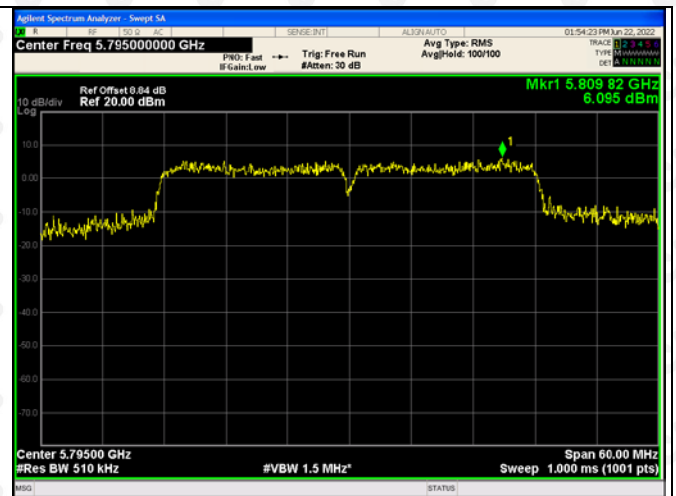


5745-5825MHz
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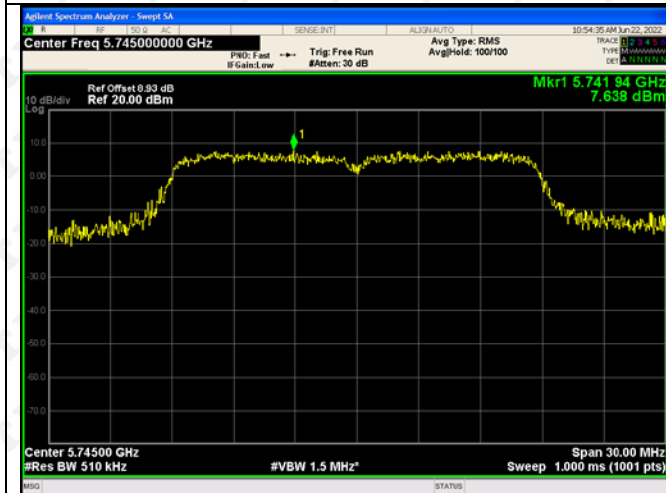




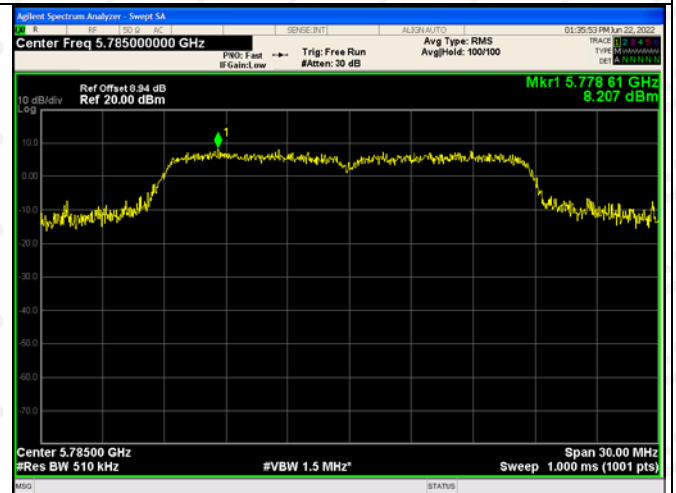
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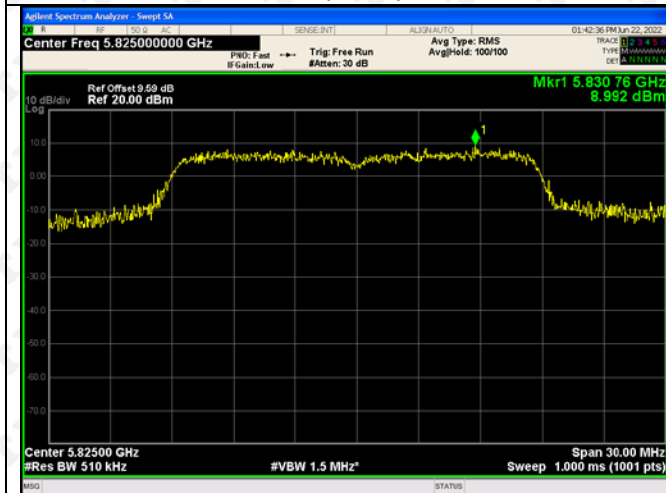
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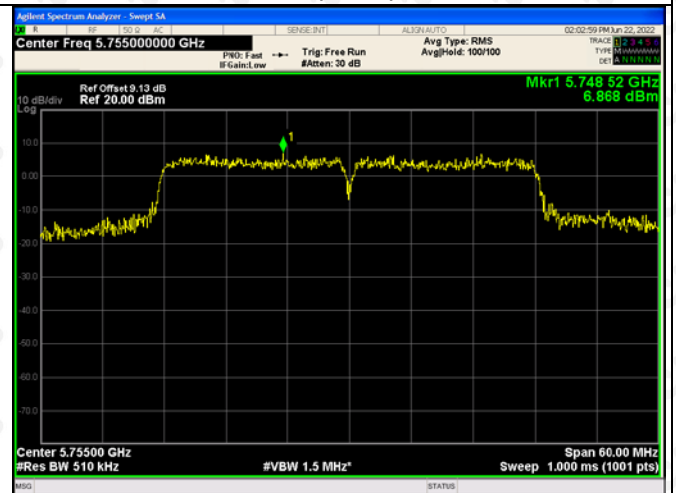
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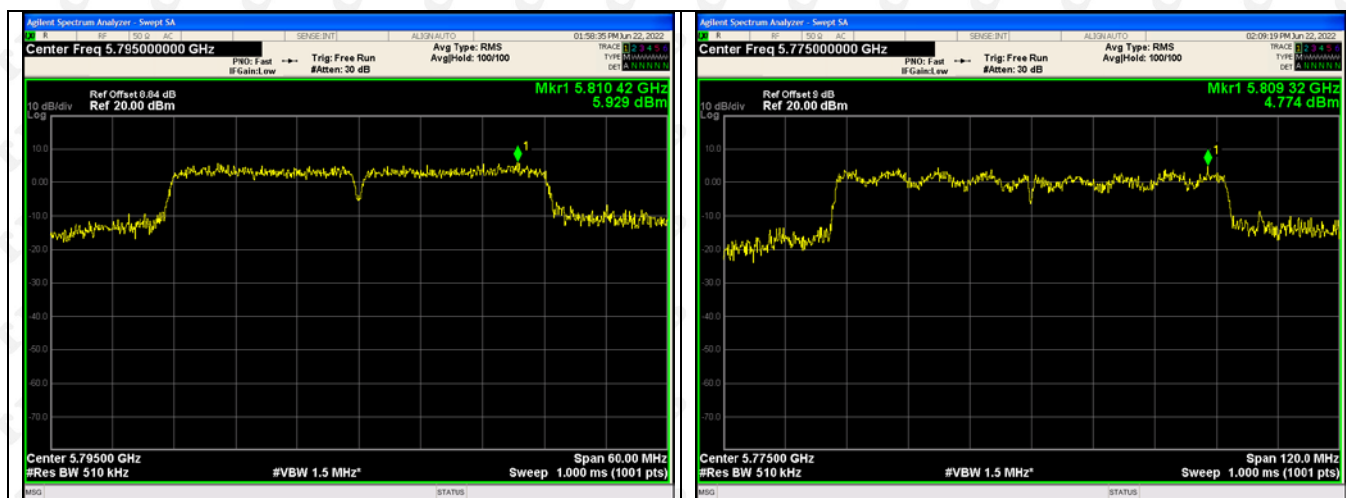
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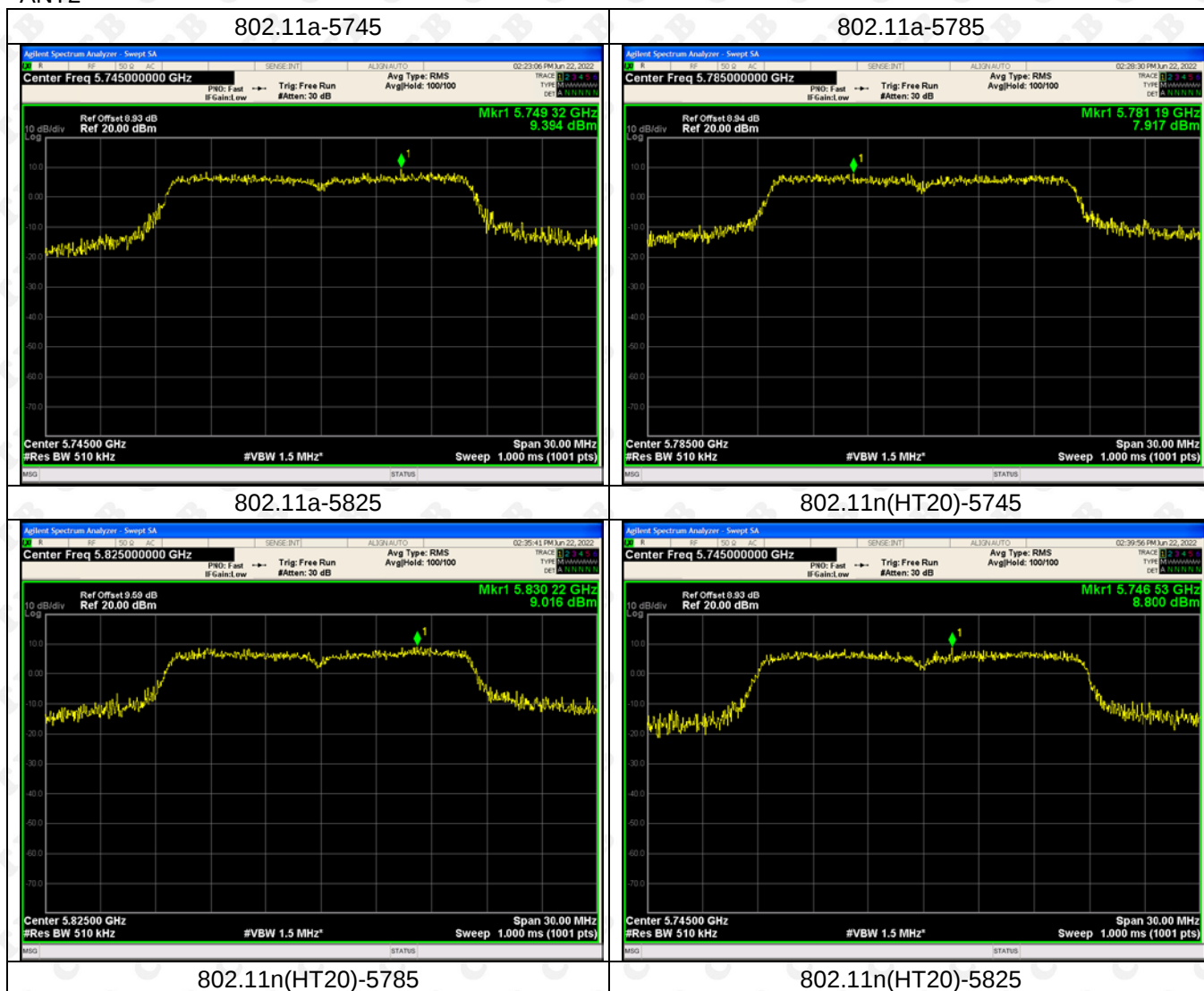
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802.11ac(VH80)-5775

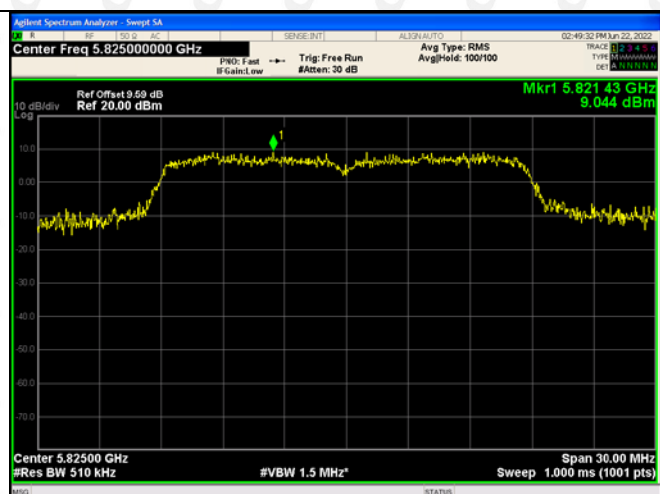


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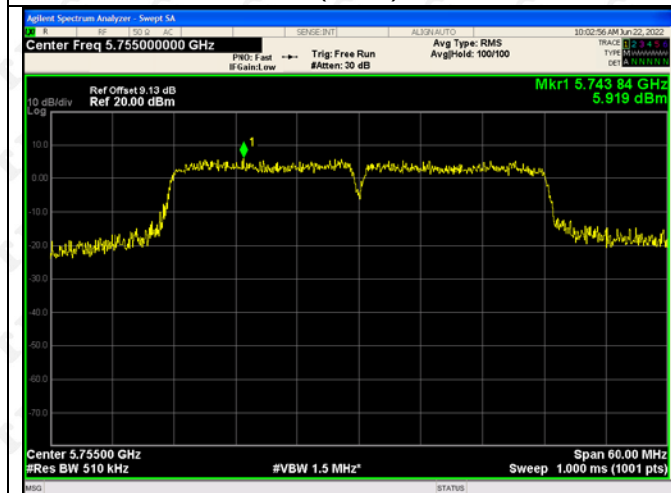




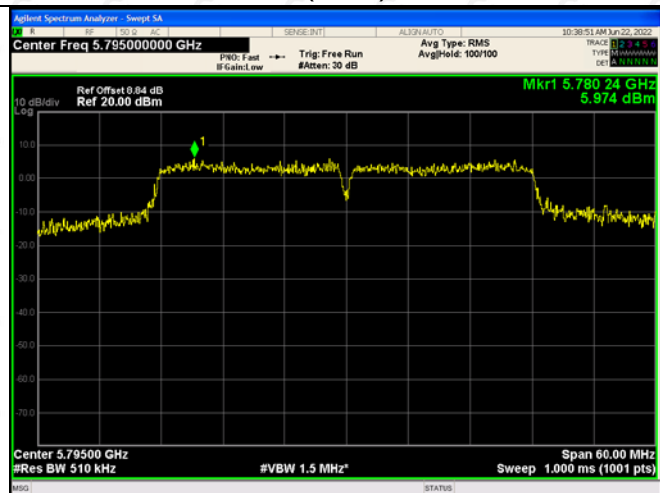
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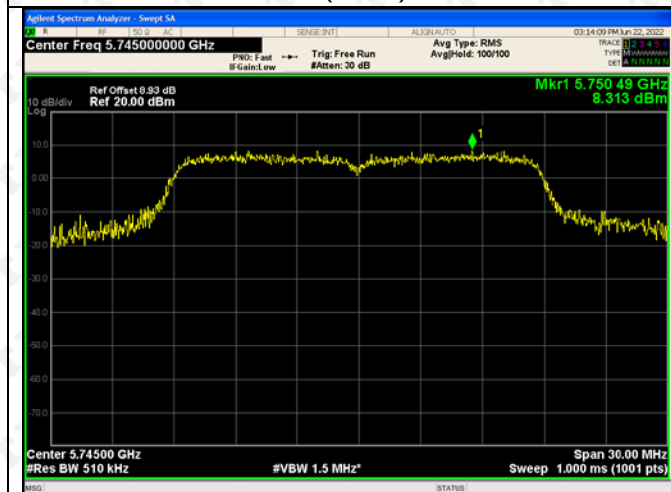
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802.11ac(VH20)-5745



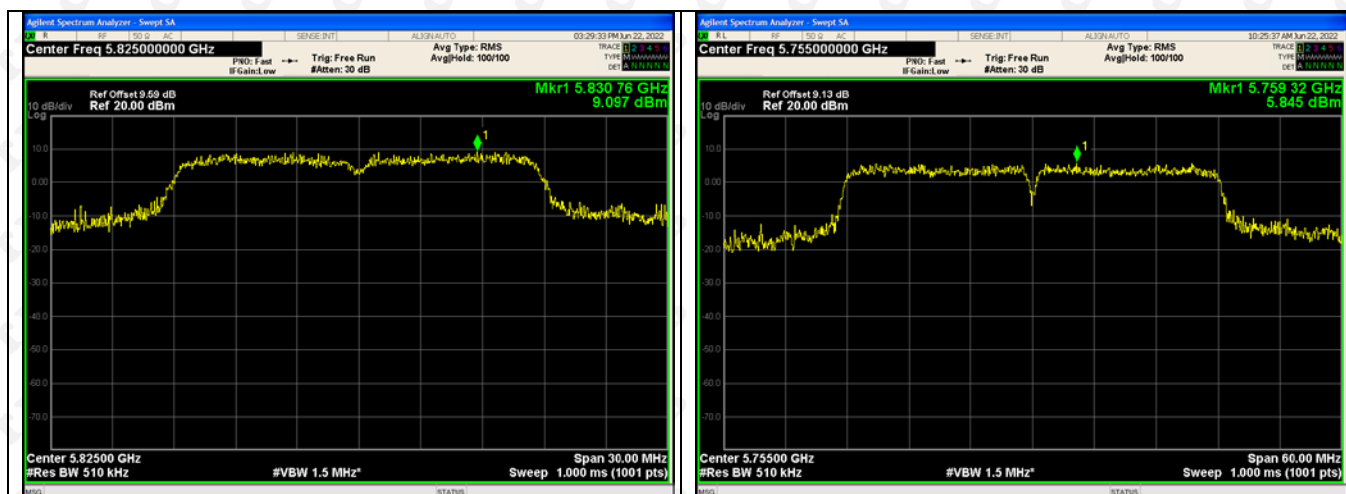
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802.11ac(VH20)-5825

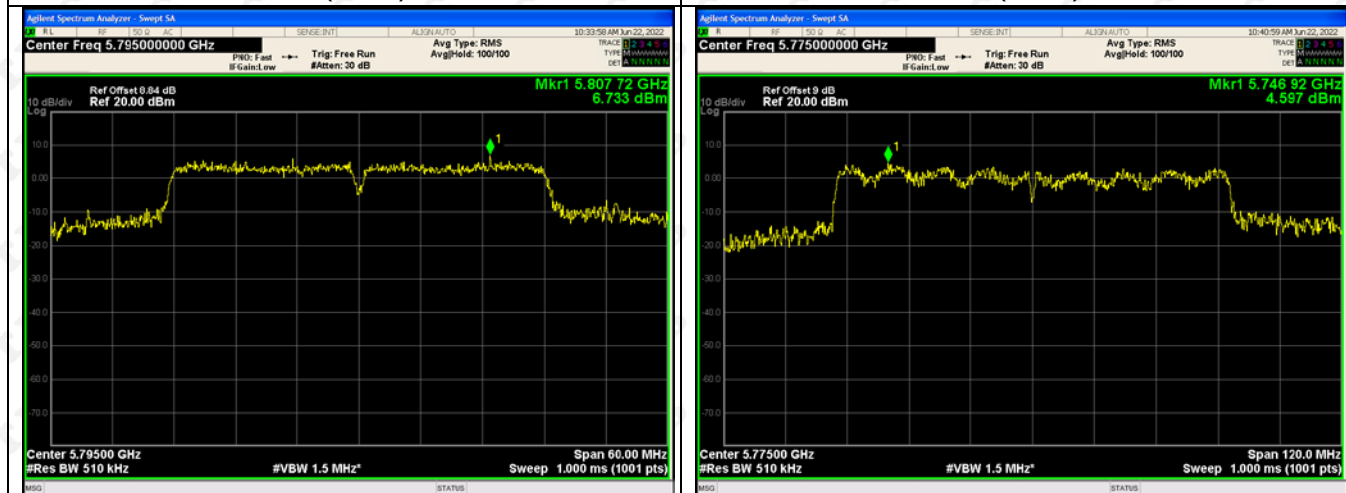


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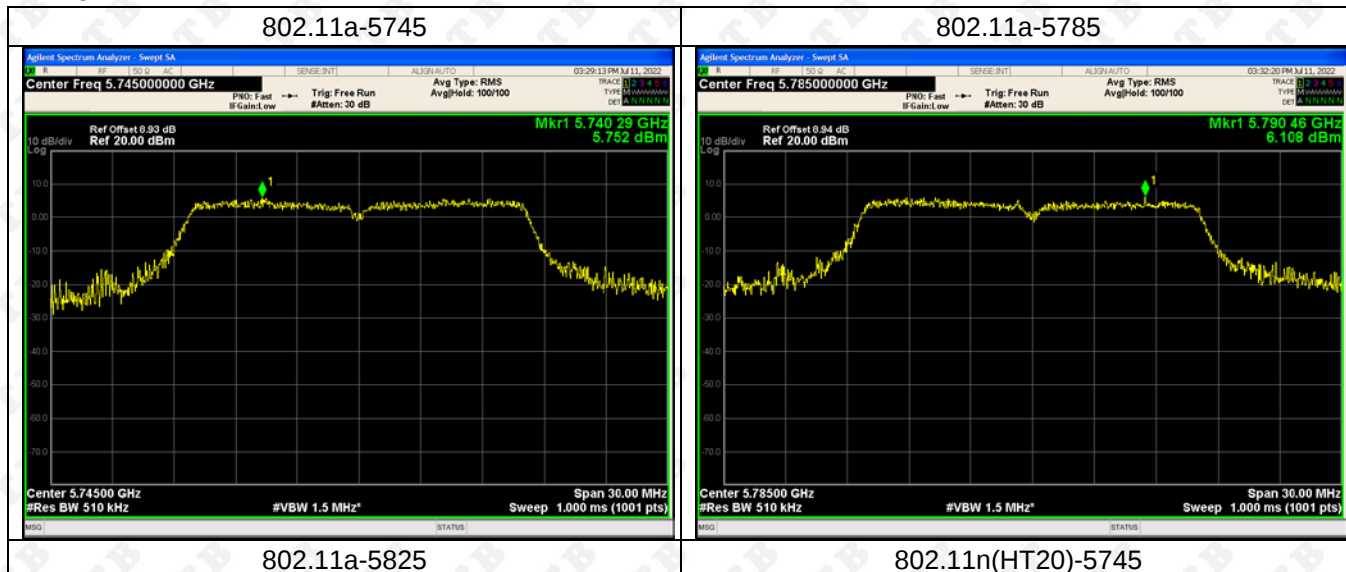
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802.11ac(VH80)-5775



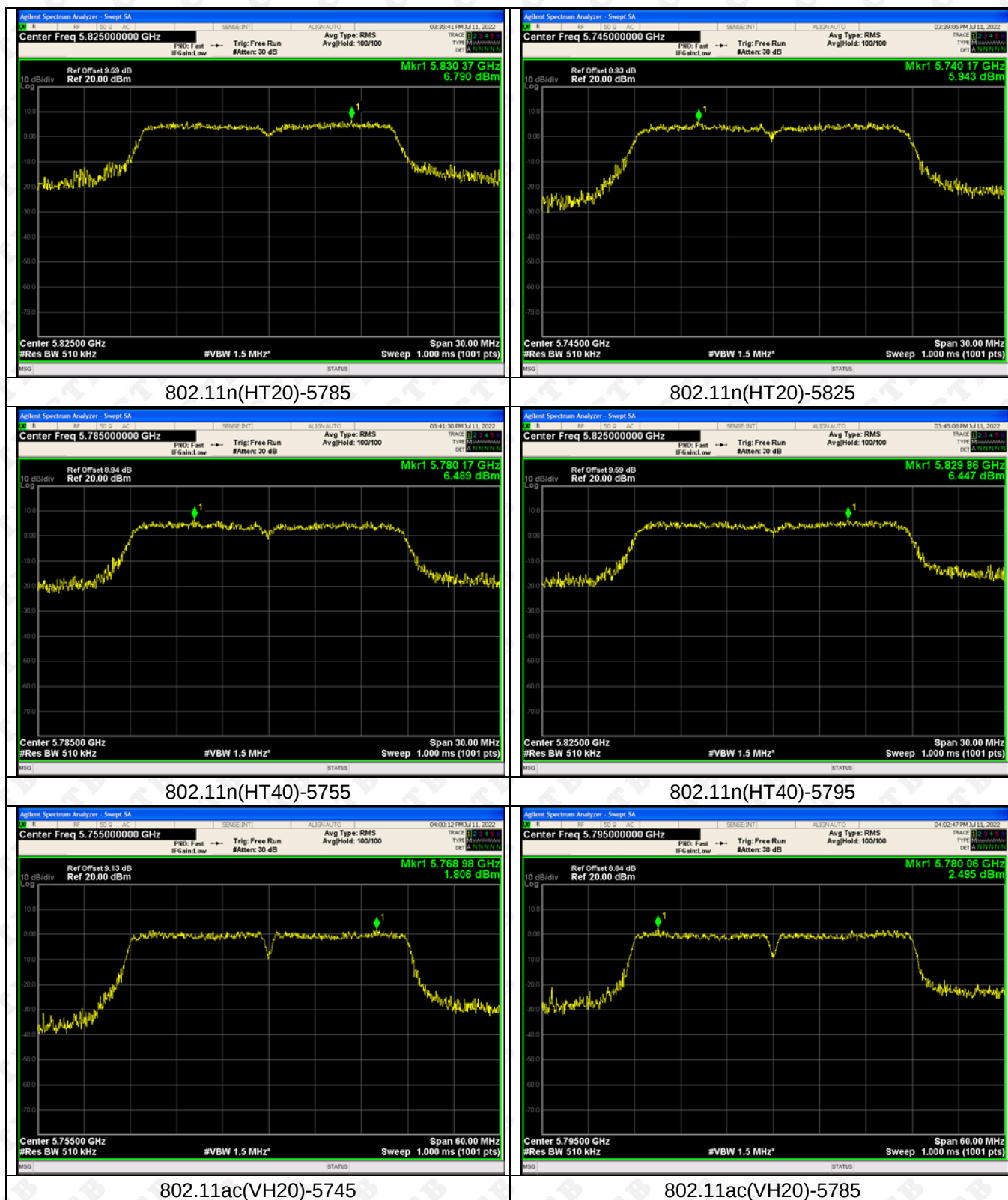
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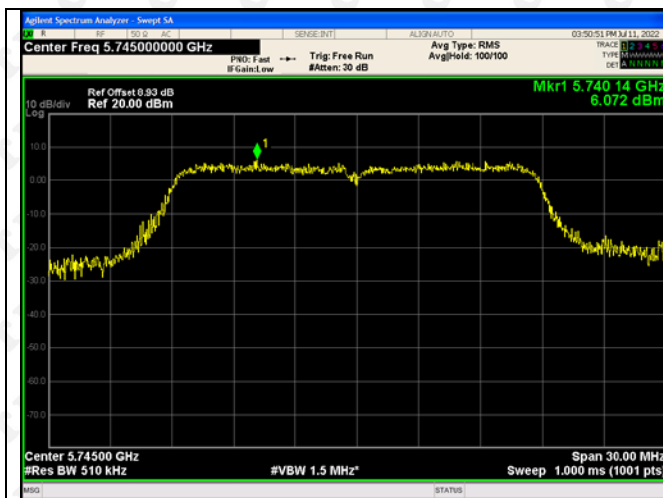
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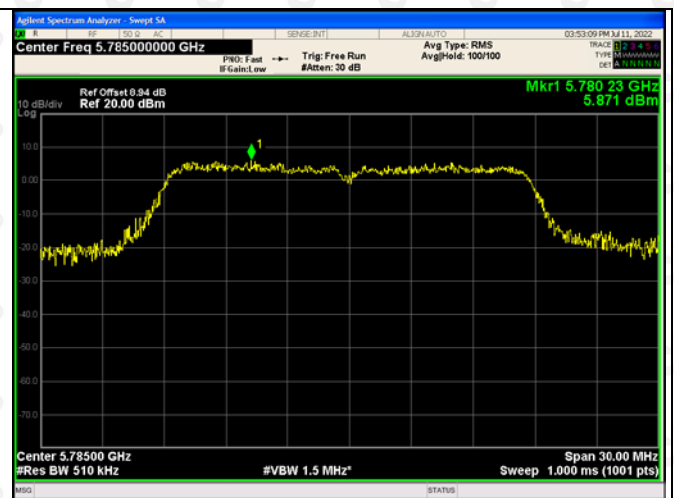
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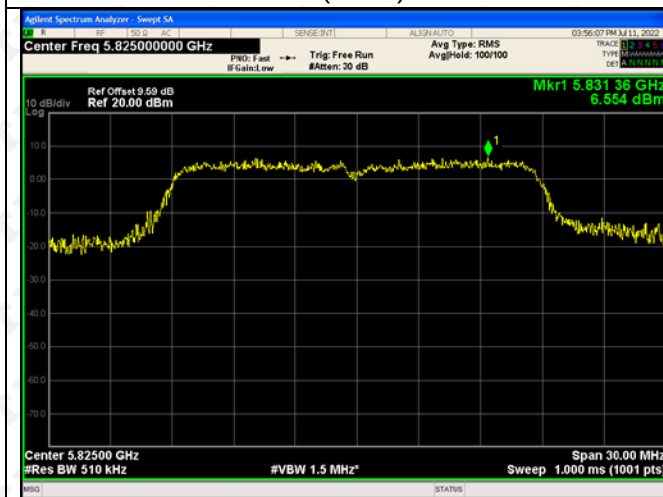




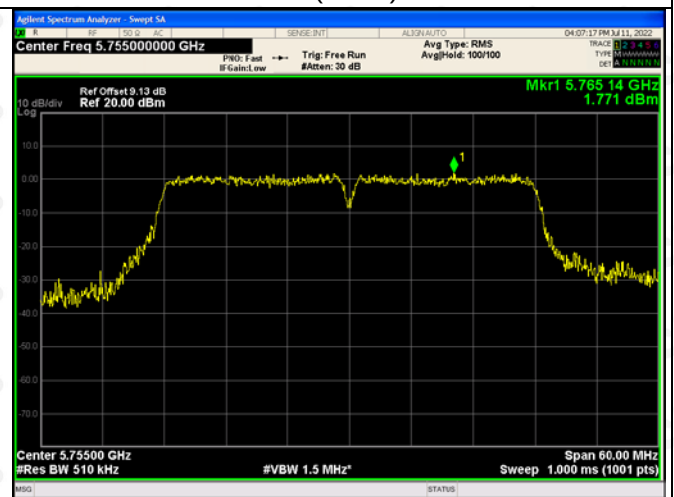
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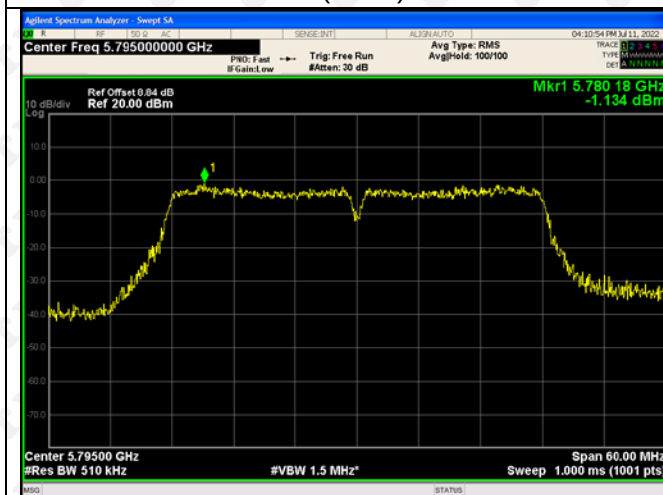
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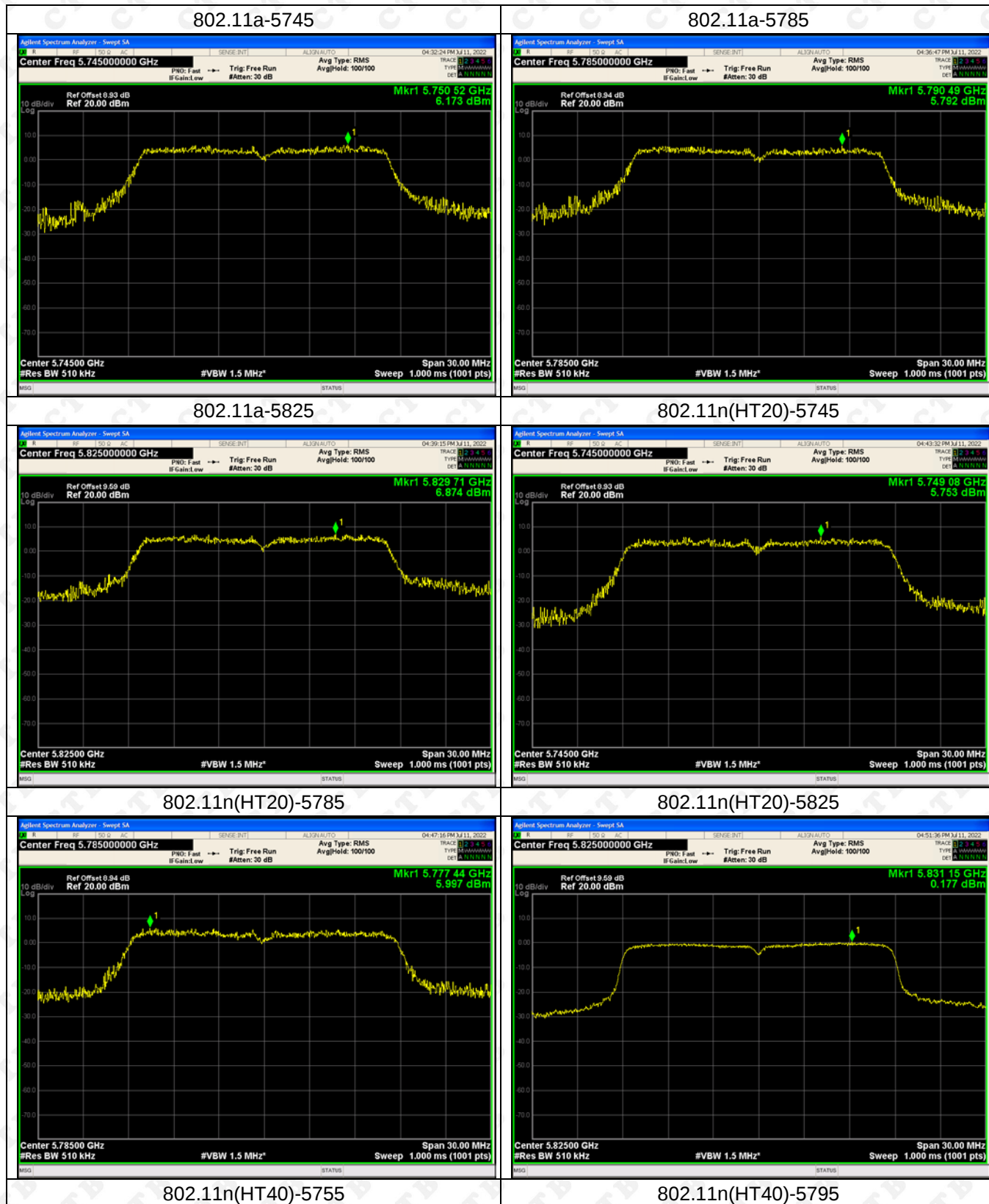
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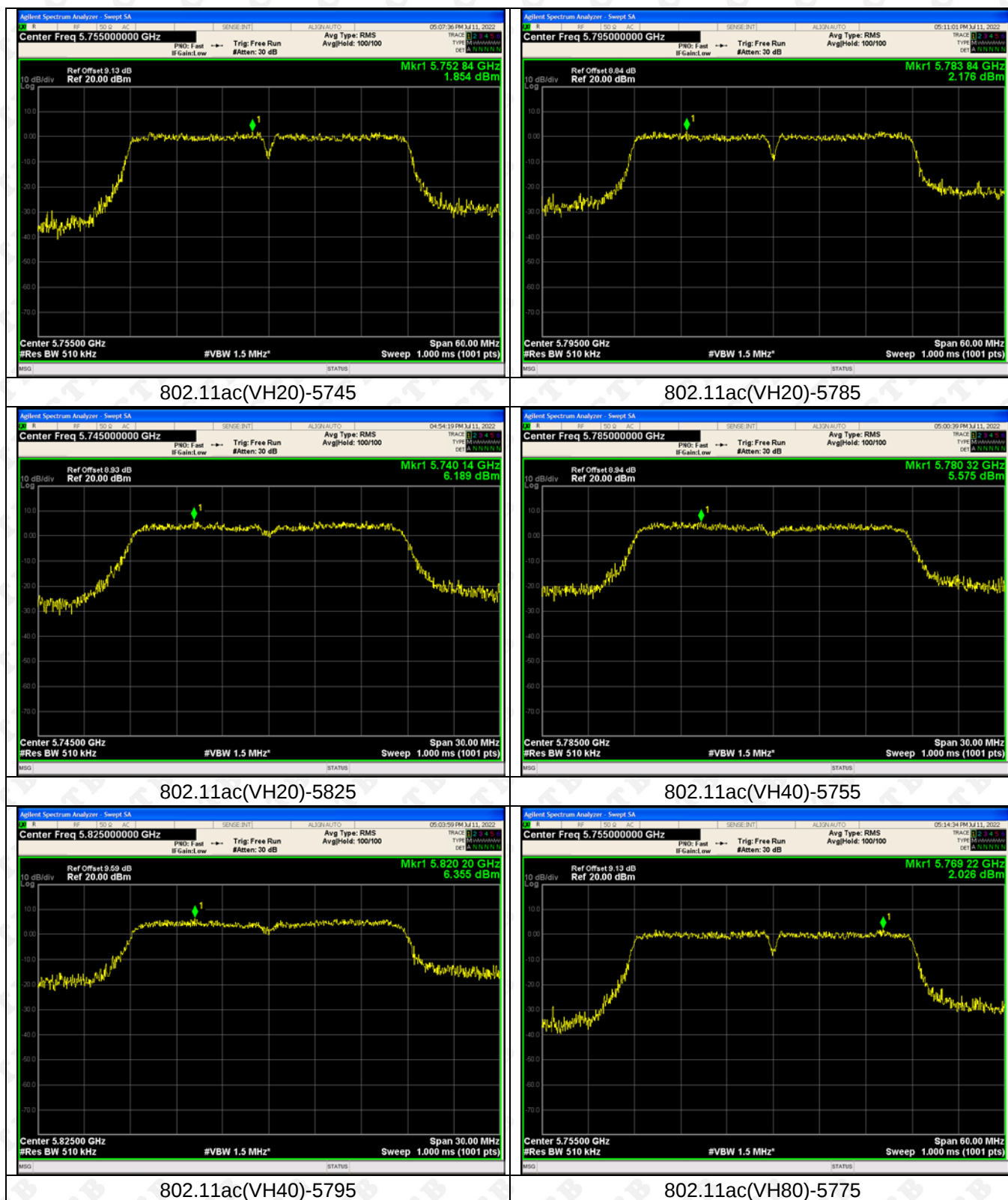


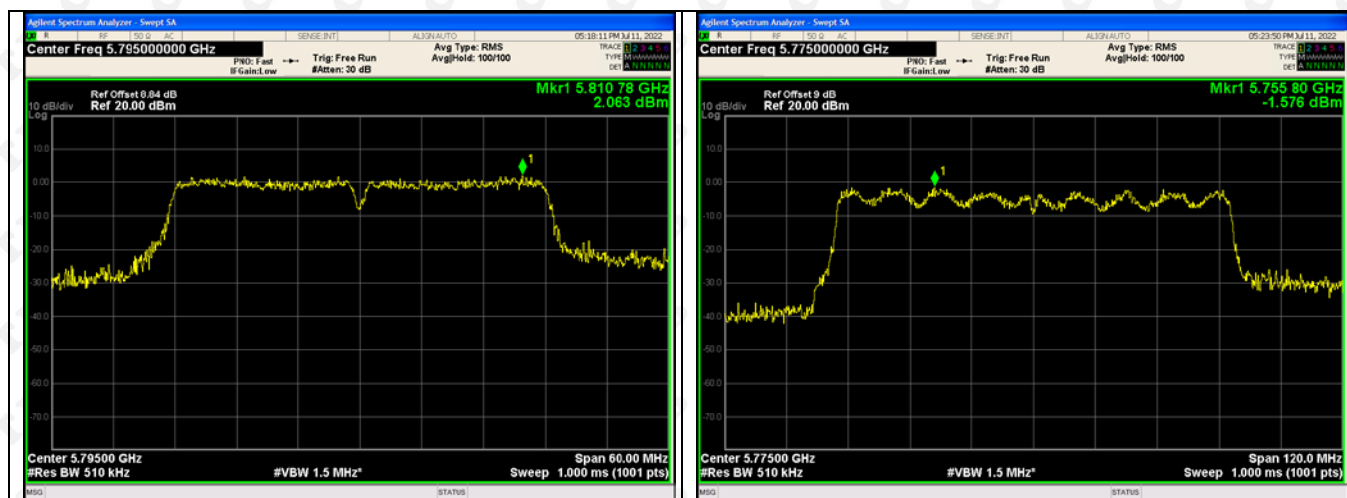
802.11ac(VH80)-5775



ANT4

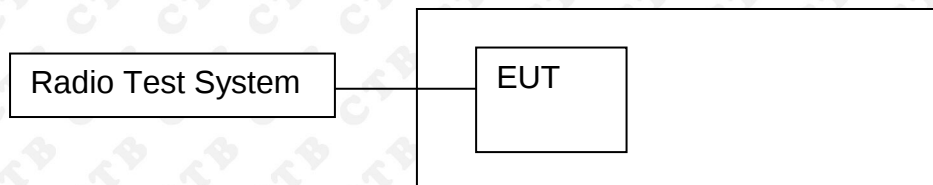






12. FREQUENCY STABILITY

12.1 Block Diagram Of Test Setup



12.2 Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

12.3 Test procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

12.4 Test Result

TX Frequency (5150-5250MHz)

ANT1

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5180.0456	5180	0.0456	8.8031
		V max (V)	132	5180.0437	5180	0.0437	8.4363
		V min (V)	108	5180.0463	5180	0.0463	8.9382
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5180.0437	5180	0.0437	8.4363
		T (°C)	10	5180.0455	5180	0.0455	8.7838
		T (°C)	20	5180.0472	5180	0.0472	9.1120
		T (°C)	30	5180.0434	5180	0.0434	8.3784
		T (°C)	40	5180.0434	5180	0.0434	8.3784
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5200.0465	5200	0.0465	8.9423
		V max (V)	132	5200.0478	5200	0.0478	9.1923
		V min (V)	108	5200.0463	5200	0.0463	8.9038
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5200.0424	5200	0.0424	8.1538
		T (°C)	10	5200.0421	5200	0.0421	8.0962
		T (°C)	20	5200.0425	5200	0.0425	8.1731
		T (°C)	30	5200.0428	5200	0.0428	8.2308
		T (°C)	40	5200.0435	5200	0.0435	8.3654
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5240.0432	5240	0.0432	8.2443
		V max (V)	132	5240.0413	5240	0.0413	7.8817
		V min (V)	108	5240.0398	5240	0.0398	7.5954
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5240.0434	5240	0.0434	8.2824
		T (°C)	10	5240.0452	5240	0.0452	8.6260
		T (°C)	20	5240.0427	5240	0.0427	8.1489
		T (°C)	30	5240.0416	5240	0.0416	7.9389
		T (°C)	40	5240.0433	5240	0.0433	8.2634
Limits				±20ppm			
Result				Complies			

TX Frequency (5250-5350MHz)

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5260.0454	5260	0.0454	8.6312
		V max (V)	132	5260.0477	5260	0.0477	9.0684
		V min (V)	108	5260.0455	5260	0.0455	8.6502
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5260.0451	5260	0.0451	8.5741
		T (°C)	10	5260.0435	5260	0.0435	8.2700
		T (°C)	20	5260.0492	5260	0.0492	9.3536
		T (°C)	30	5260.0484	5260	0.0484	9.2015
		T (°C)	40	5260.0444	5260	0.0444	8.4411
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5280.0476	5280	0.0476	9.0152
		V max (V)	132	5280.0426	5280	0.0426	8.0682
		V min (V)	108	5280.0459	5280	0.0459	8.6932
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5280.0464	5280	0.0464	8.7879
		T (°C)	10	5280.0421	5280	0.0421	7.9735
		T (°C)	20	5280.0425	5280	0.0425	8.0492
		T (°C)	30	5280.0438	5280	0.0438	8.2955
		T (°C)	40	5280.0435	5280	0.0435	8.2386
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5320.0422	5320	0.0422	7.9323
		V max (V)	132	5320.0413	5320	0.0413	7.7632
		V min (V)	108	5320.0358	5320	0.0358	6.7293
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5320.0442	5320	0.0442	8.3083
		T (°C)	10	5320.0458	5320	0.0458	8.6090
		T (°C)	20	5320.0429	5320	0.0429	8.0639
		T (°C)	30	5320.0436	5320	0.0436	8.1955
		T (°C)	40	5320.0483	5320	0.0483	9.0789
Limits				±20ppm			
Result				Complies			