

5250-5350MHz
ANT1

802.11a-5260



802.11a-5280



802.11a-5320



802.11ac(VH20)-5260



802.11ac(VH20)-5280



802.11ac(VH20)-5320



802.11ac(VH40)-5270

802.11ac(VH40)-5310



802.11ac(VH80)-5290



802.11ax(VH20)-5260



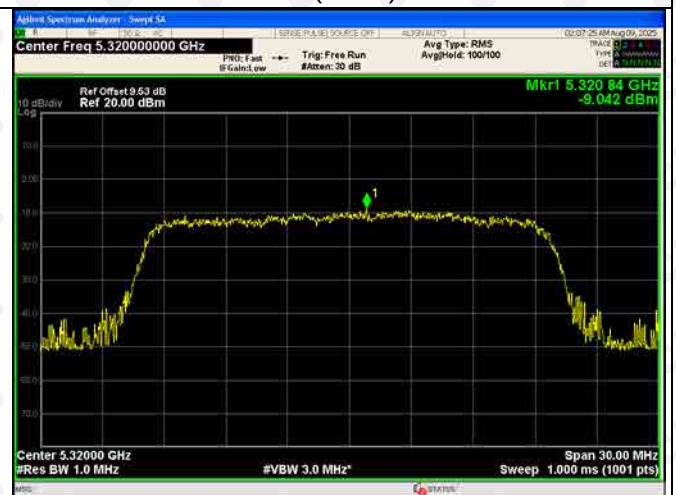
802.11ax(VH20)-5280



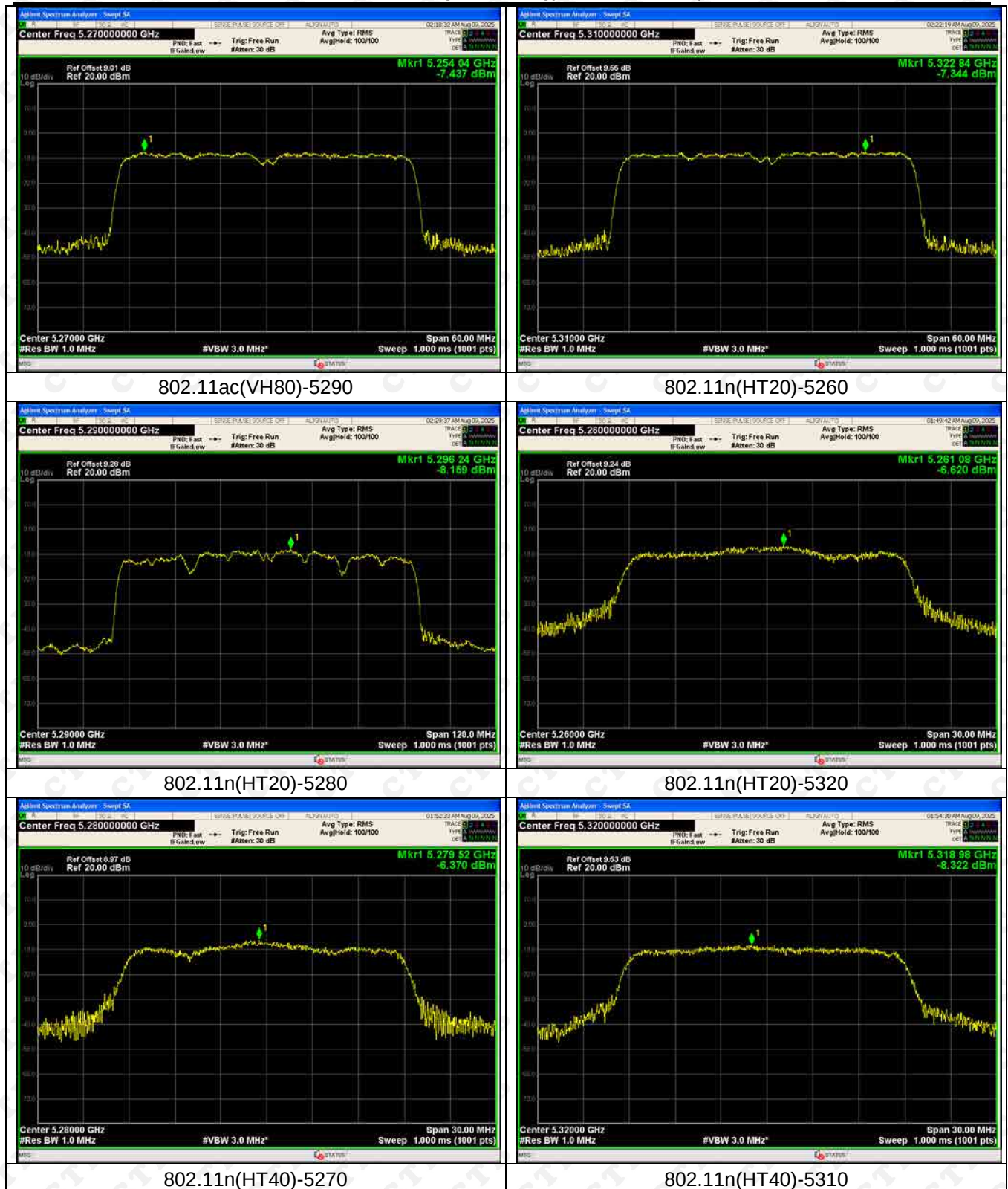
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802.11ax(VH40)-5270

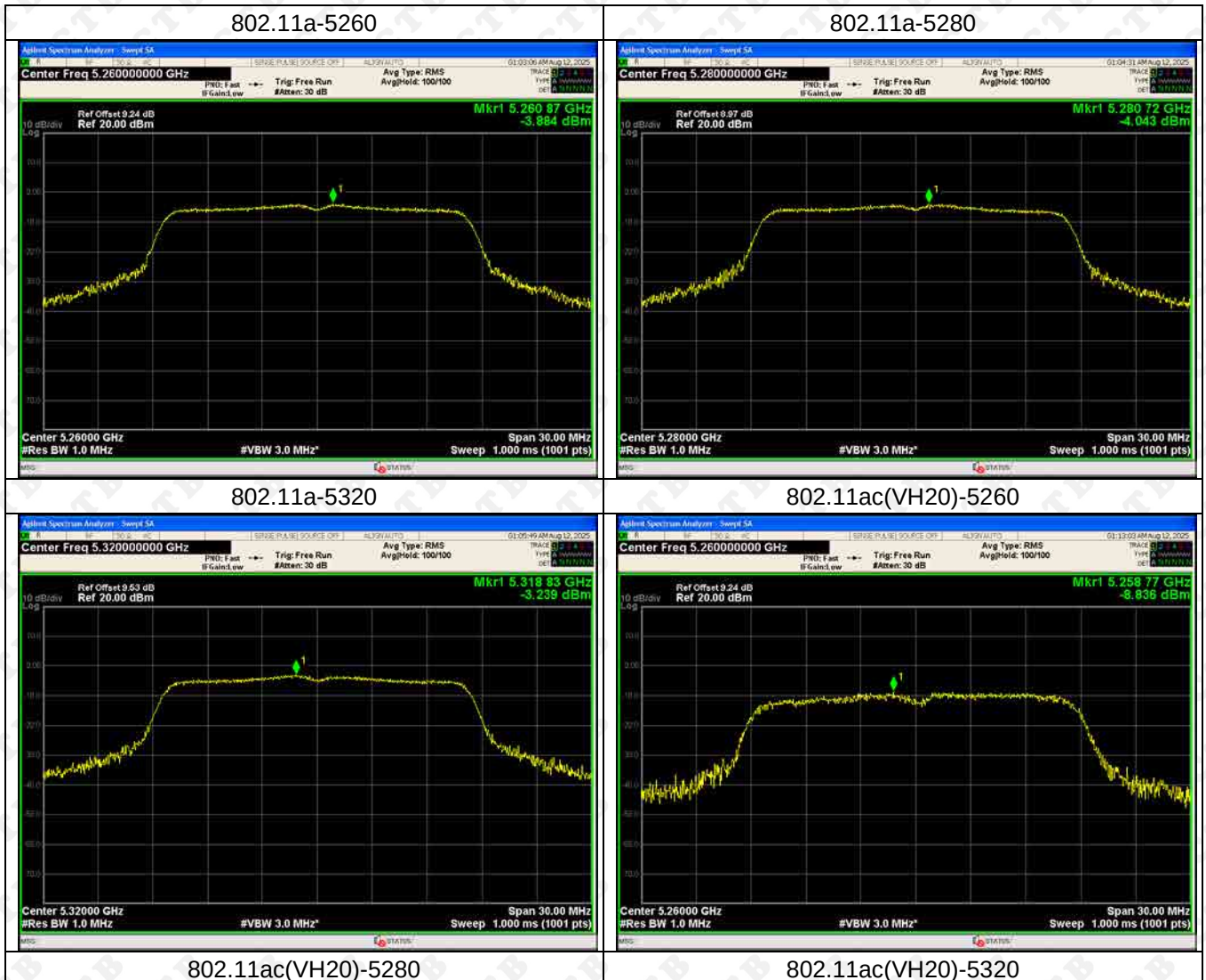


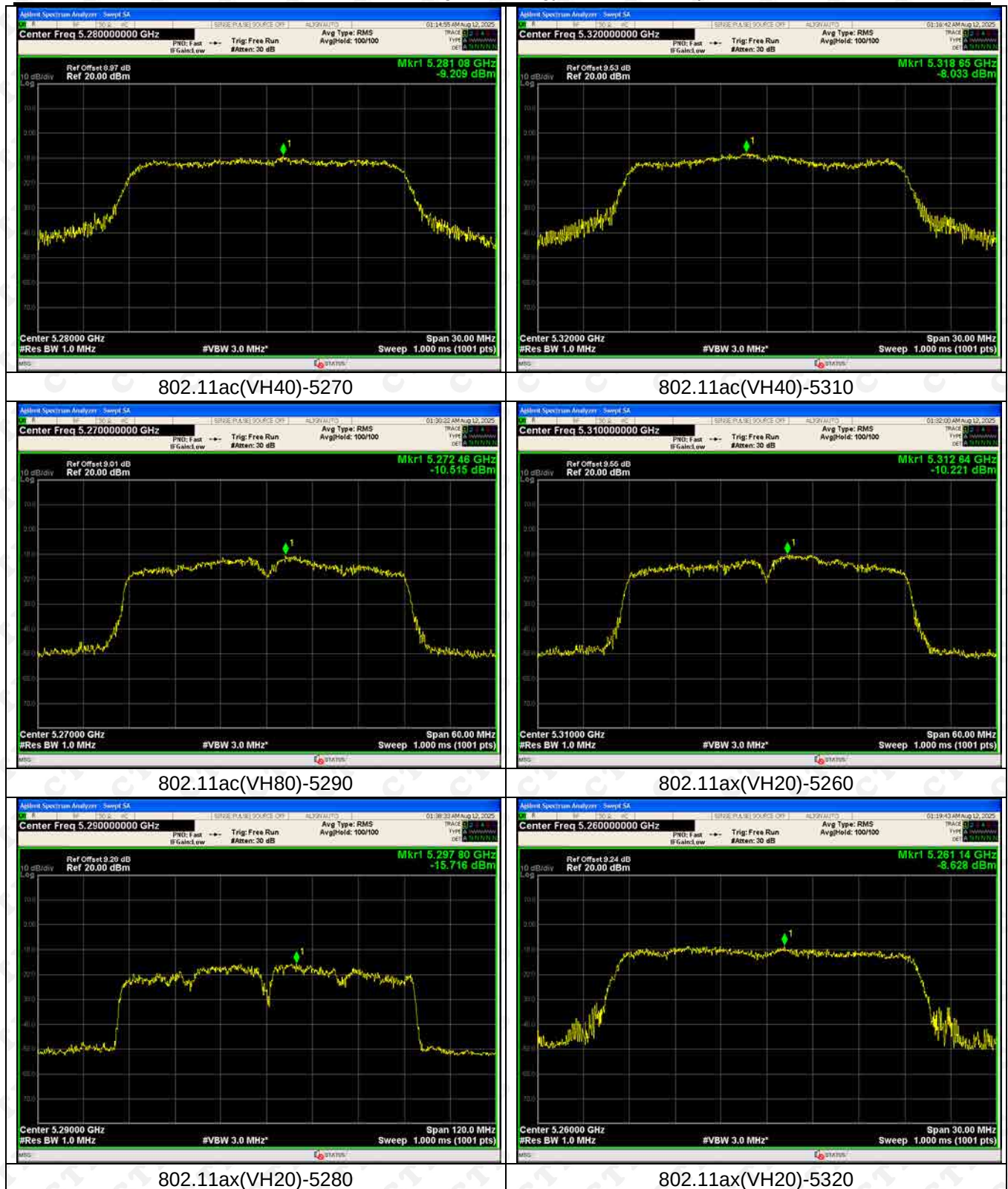
802.11ax(VH40)-5310





ANT2







802.11ax(VH40)-5270



802.11ax(VH40)-5310



802.11ac(VH80)-5290



802.11n(HT20)-5260



802.11n(HT20)-5280



802.11n(HT20)-5320



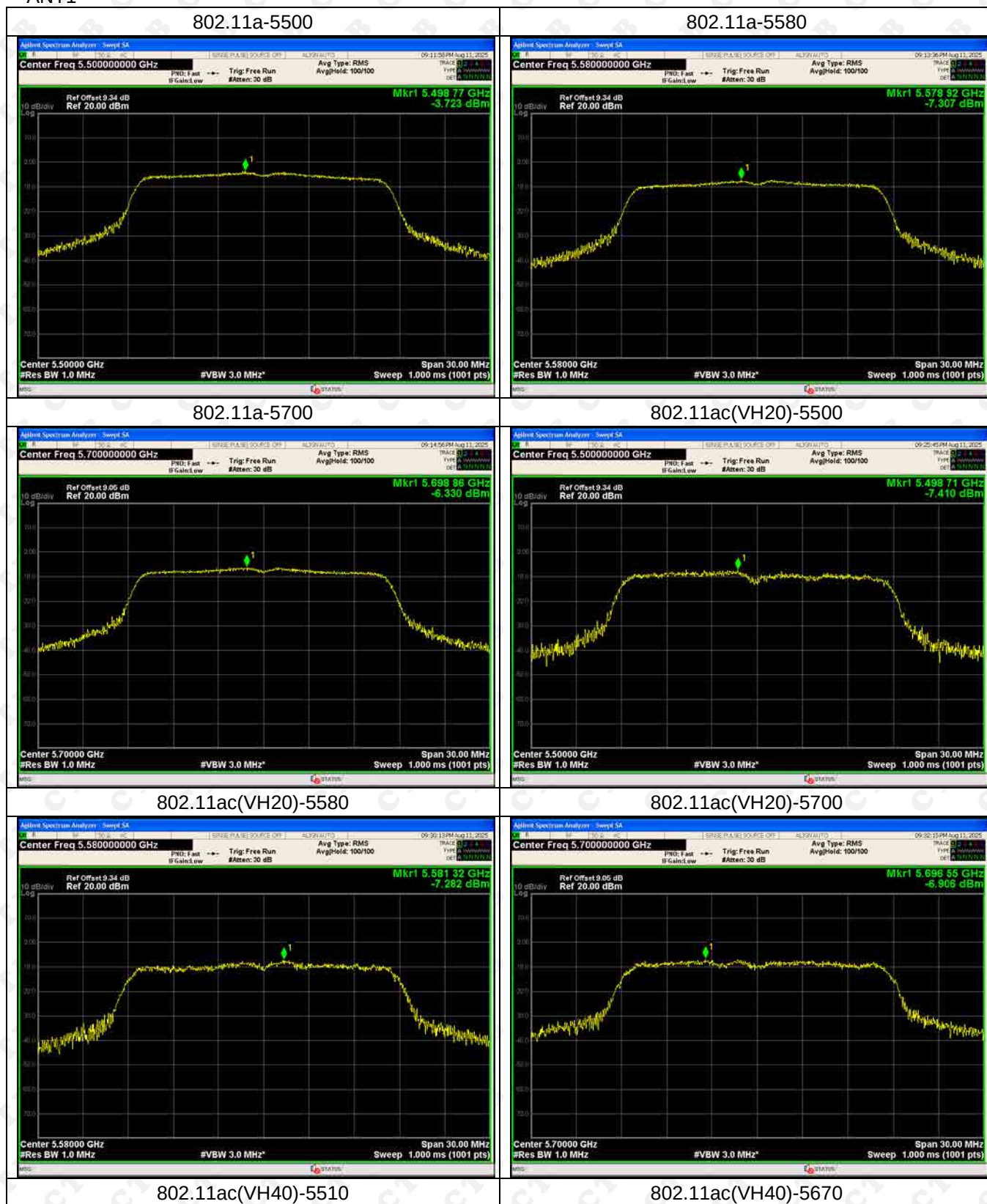
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802.11n(HT40)-5310



5470-5725MHz
ANT1





802.11ac(VH80)-5530



802.11ax(VH20)-5500



802.11ax(VH20)-5580



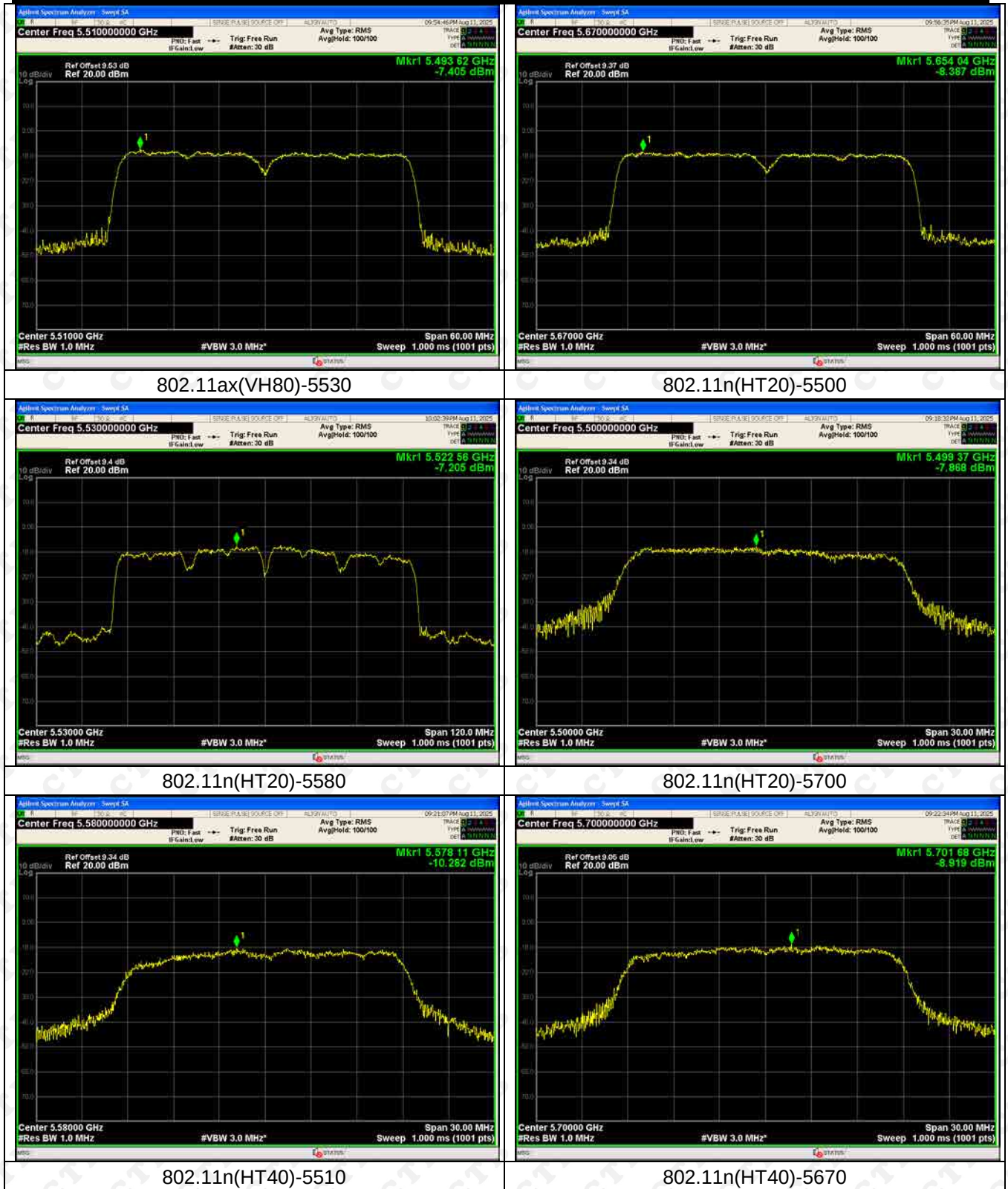
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802.11ax(VH40)-5510

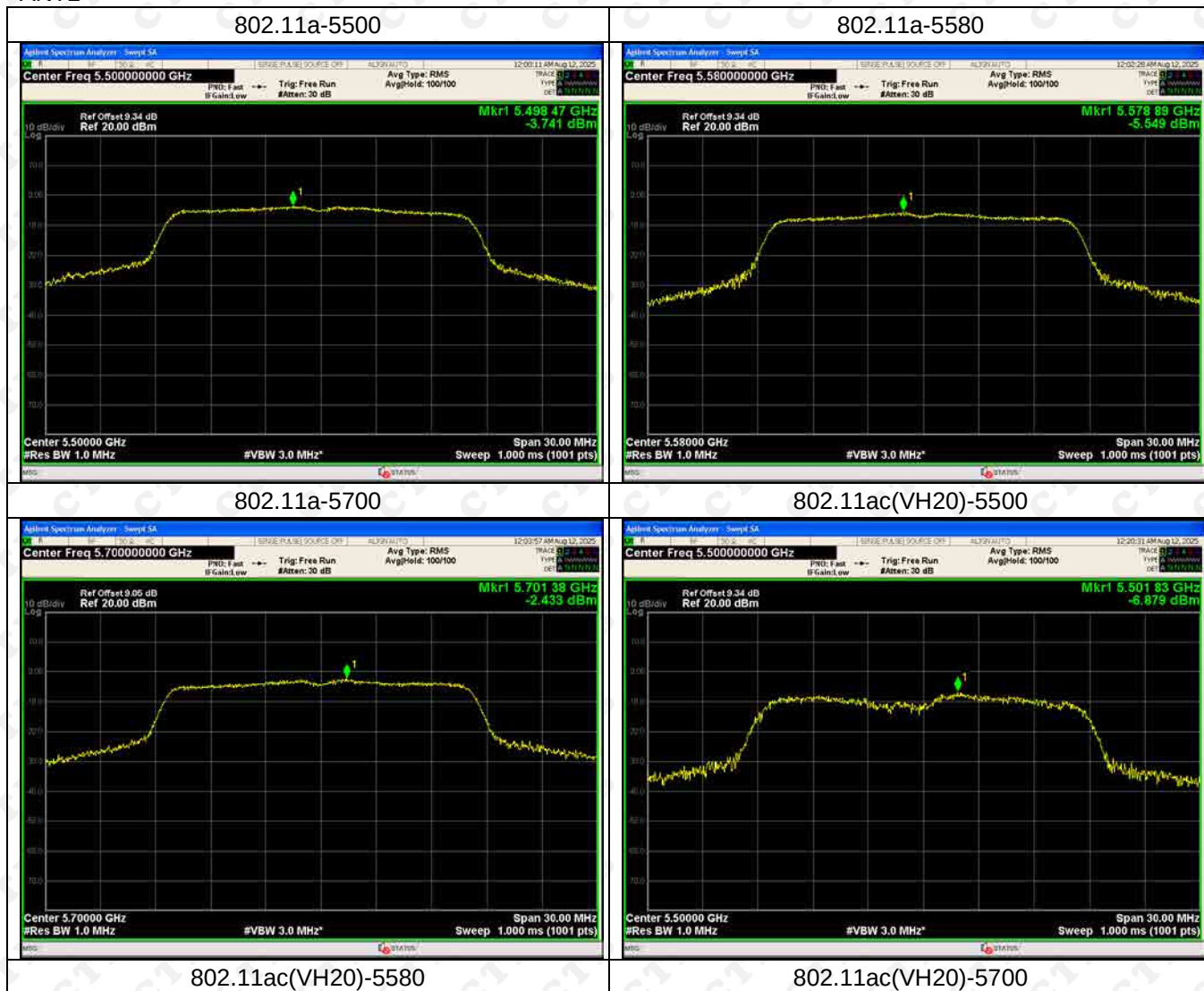


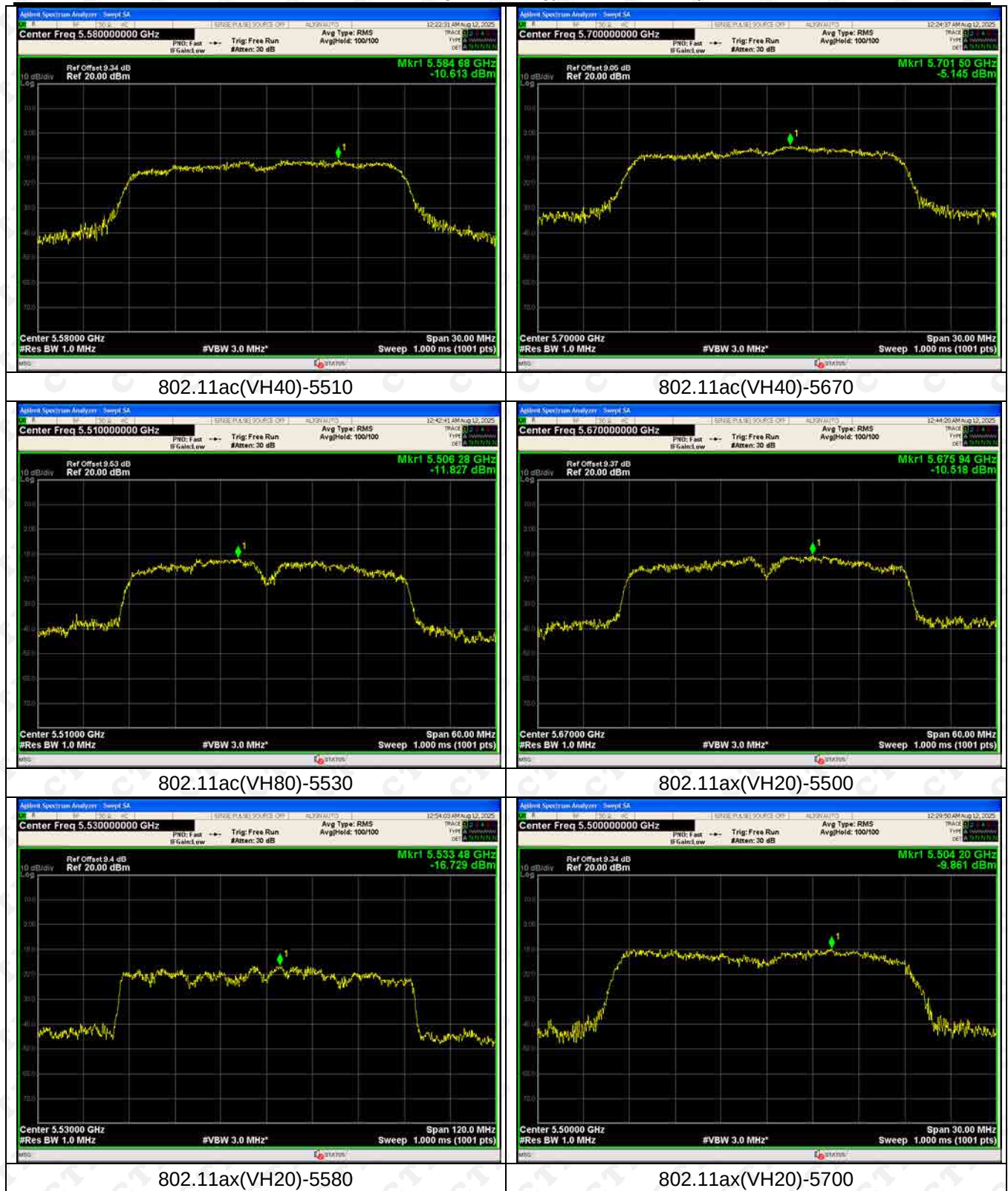
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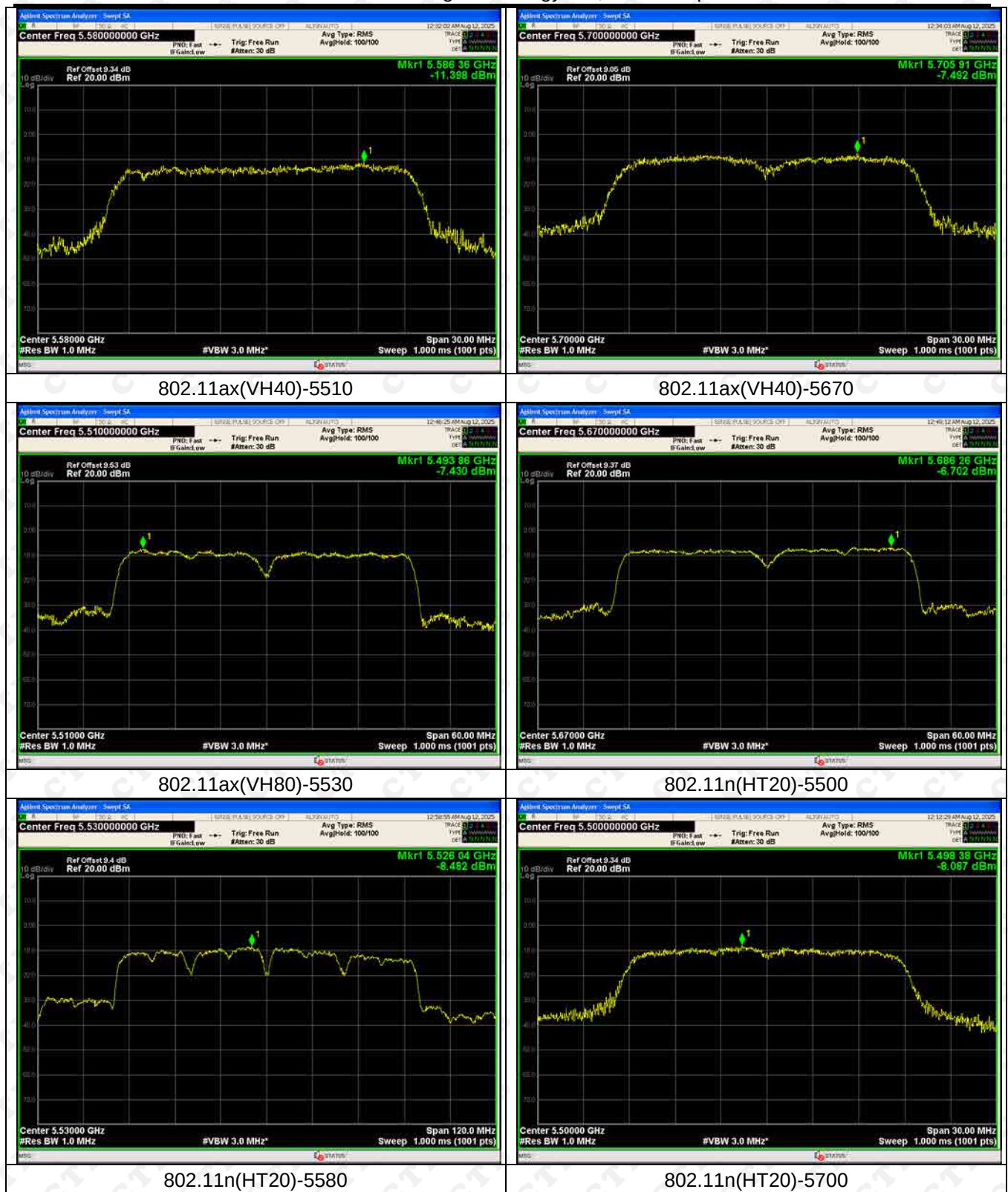


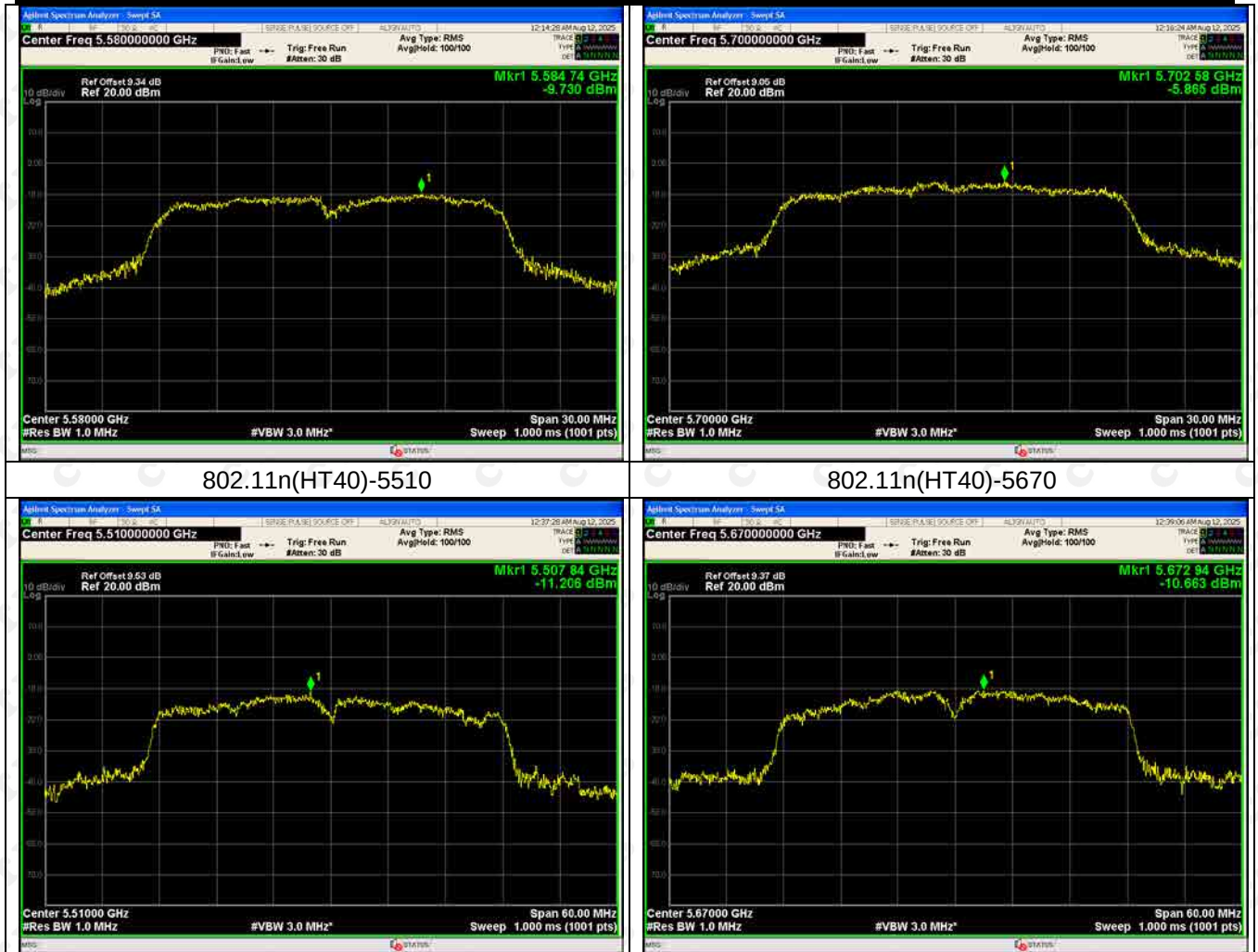


ANT2

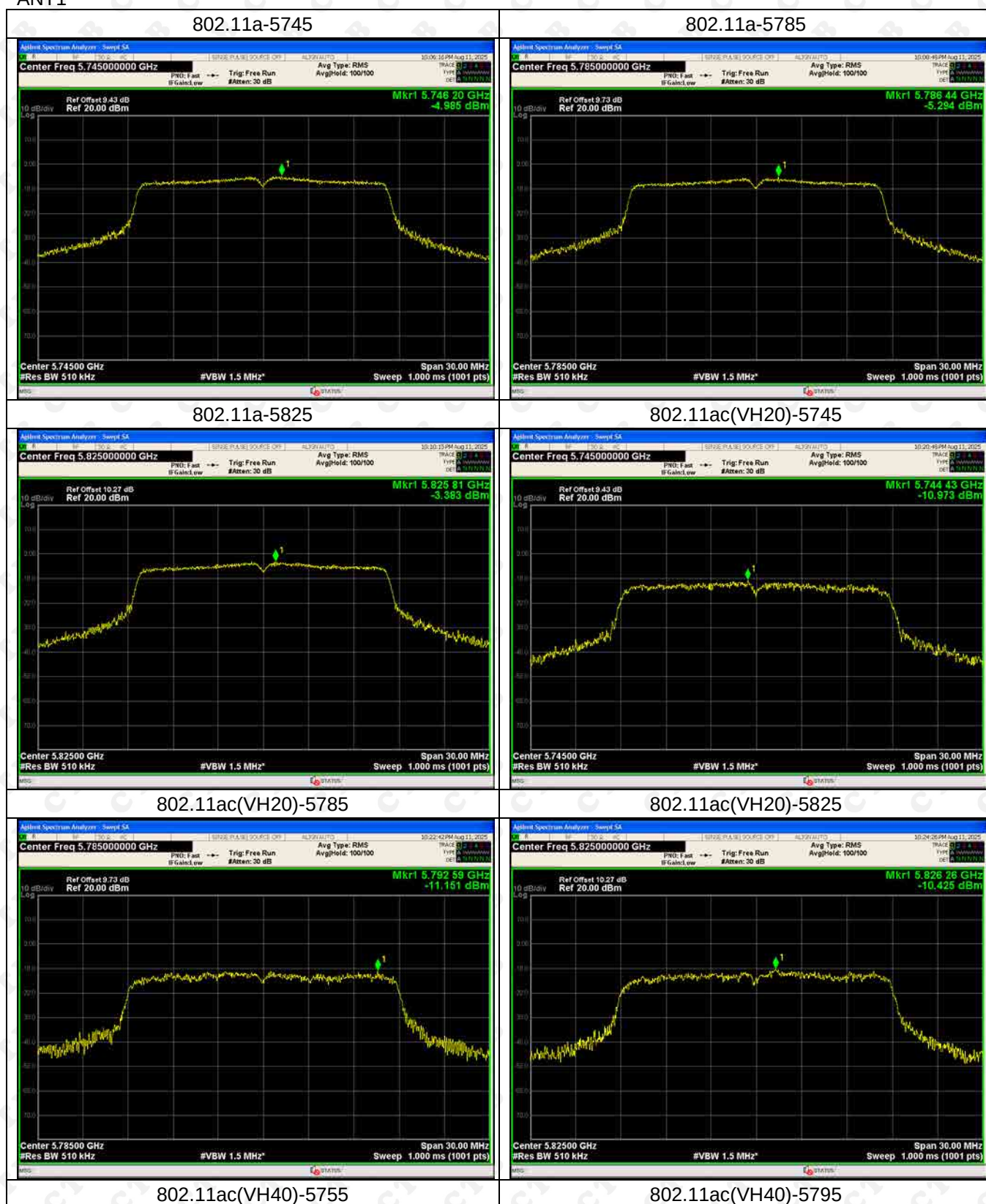








5725-5850MHz
ANT1





802.11ac(VH80)-5775



802.11ax(VH20)-5745



802.11ax(VH20)-5785



802.11ax(VH20)-5825



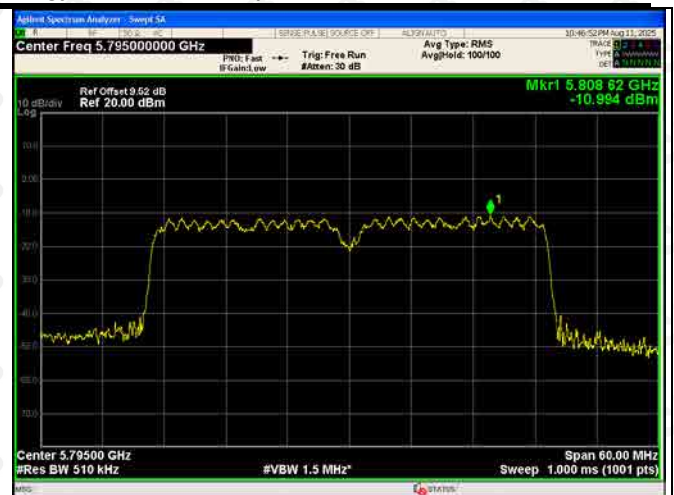
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802.11ax(VH40)-5795



802.11ax(VH80)-5775



802.11n(HT20)-5745



802.11n(HT20)-5785



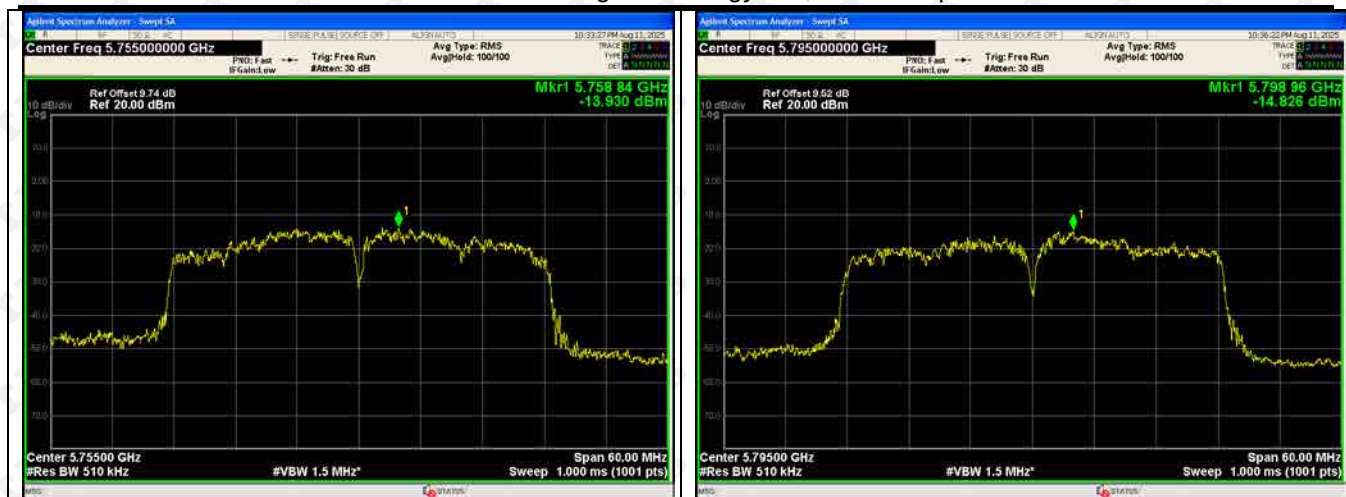
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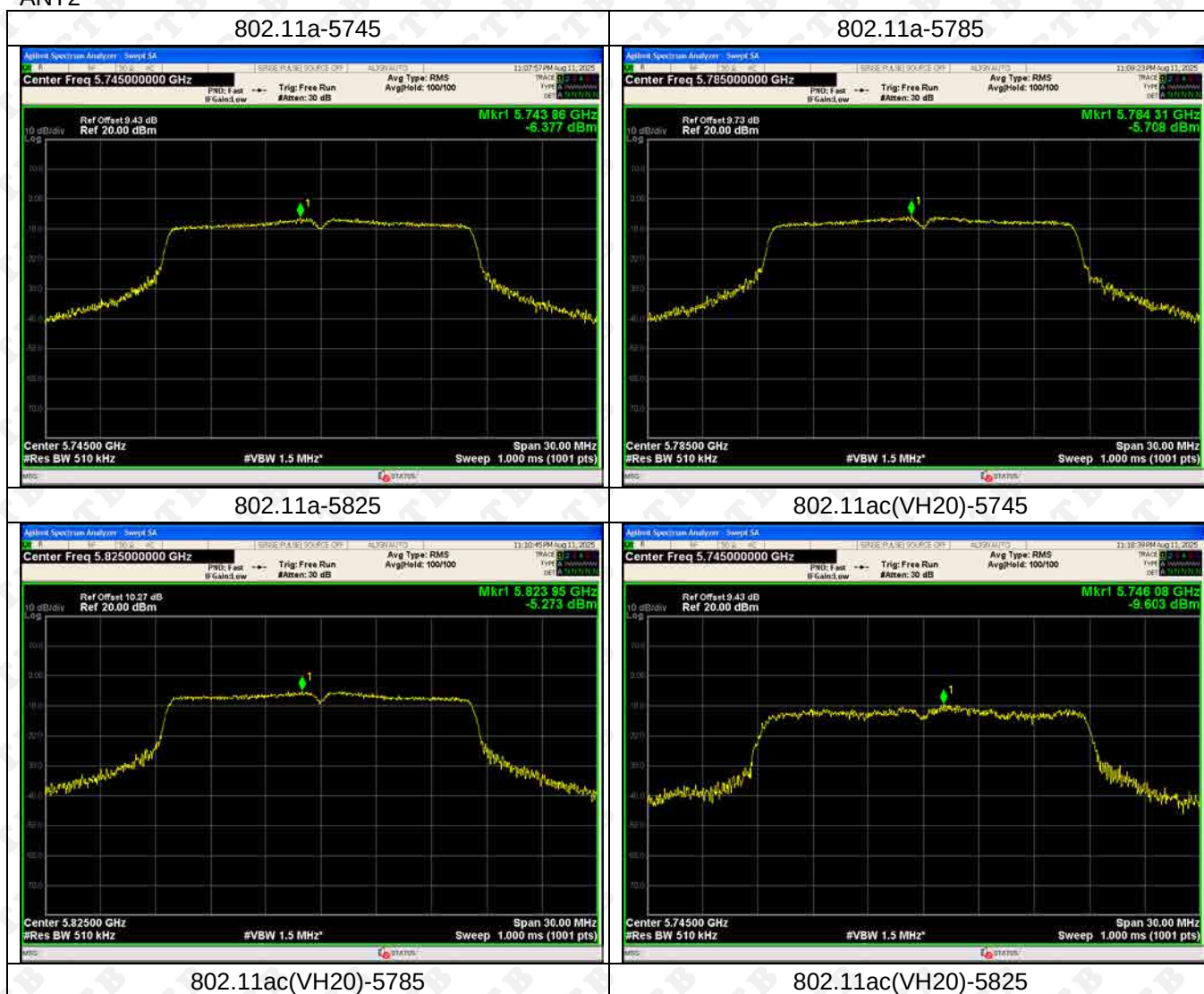
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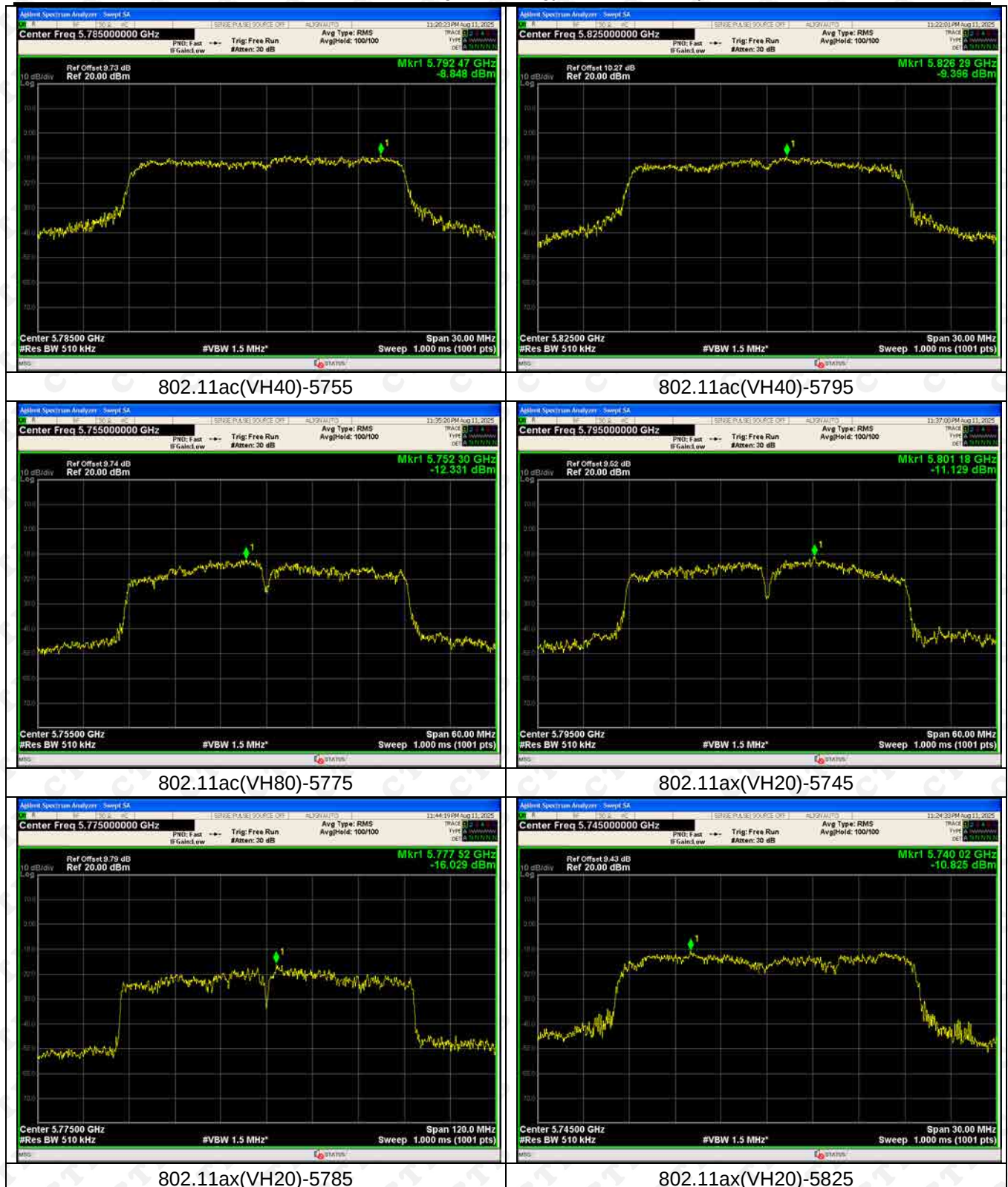


802.11n(HT40)-5795



ANT2



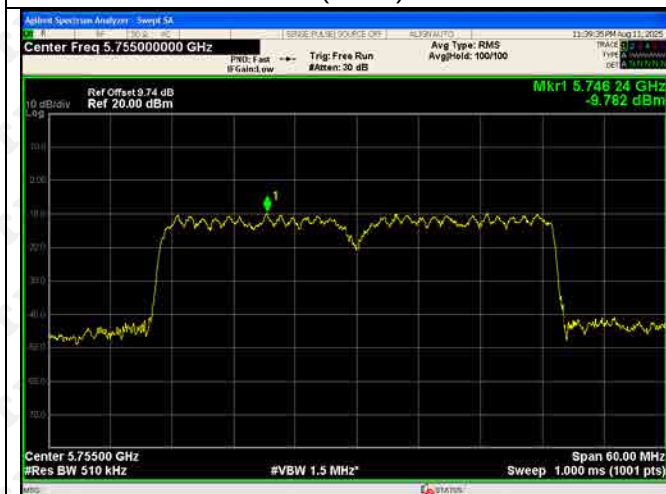




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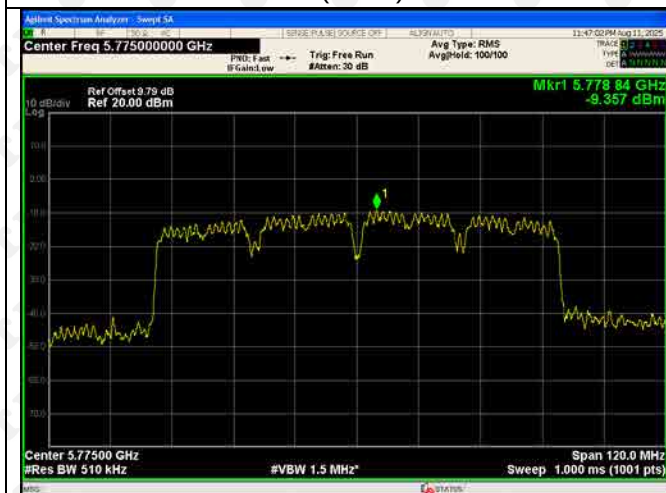
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802.11ax(VH80)-5775



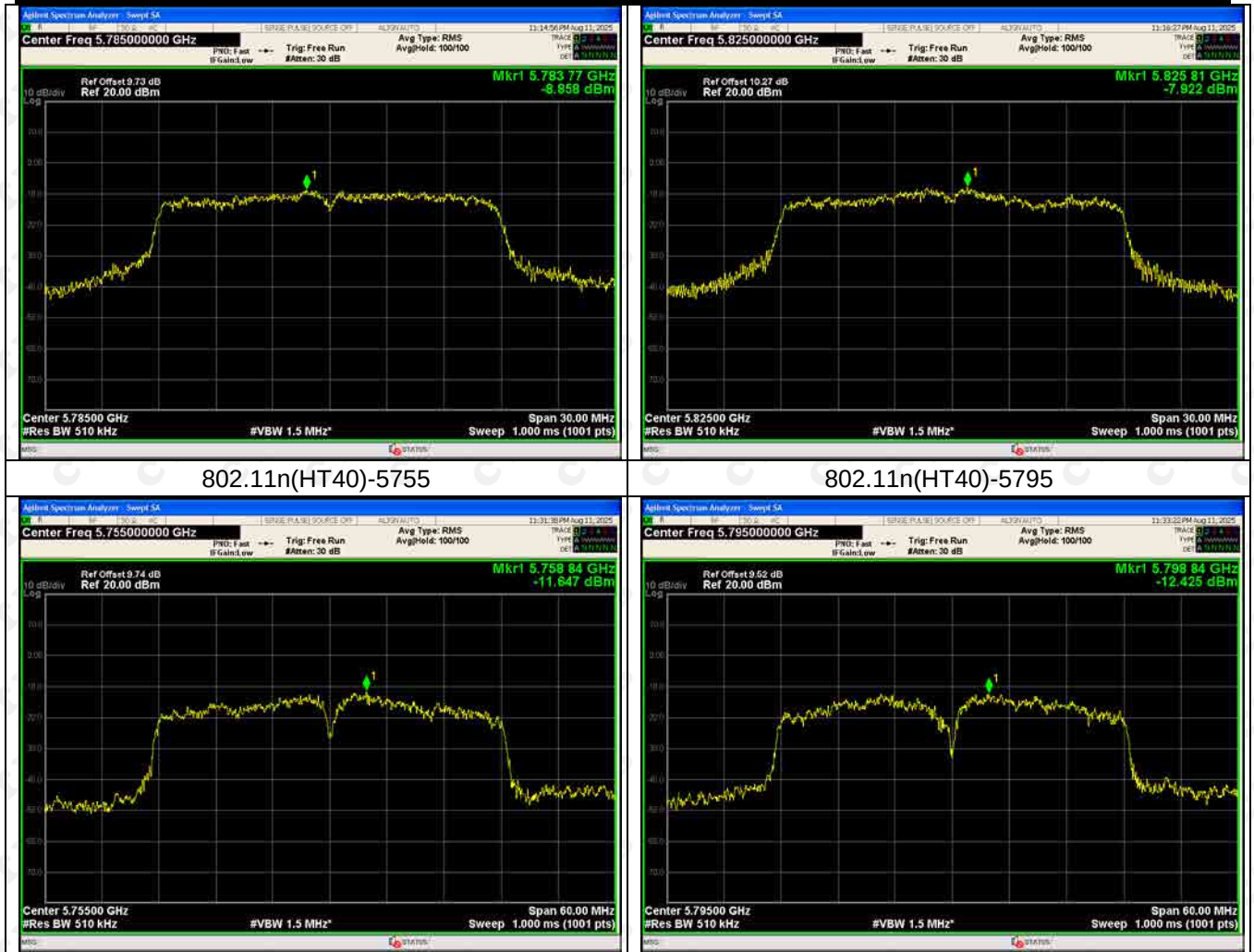
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802.11n(HT20)-5785

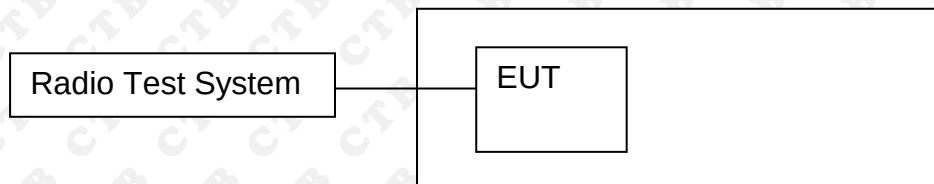


802.11n(HT20)-5825



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)	12	5180.0337	5180	0.0337	6.5035
		V max (V)	13.2	5180.0319	5180	0.0319	6.1550
		V min (V)	10.8	5180.1227	5180	0.1227	23.6928
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5180.0254	5180	0.0254	4.8941
		T (°C)	10	5180.0321	5180	0.0321	6.2026
		T (°C)	20	5180.0507	5180	0.0507	9.7830
		T (°C)	30	5180.0432	5180	0.0432	8.3477
		T (°C)	40	5180.0467	5180	0.0467	9.0241
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)	12	5200.0096	5200	0.0096	1.8458
		V max (V)	13.2	5200.0169	5200	0.0169	3.2438
		V min (V)	10.8	5200.0251	5200	0.0251	4.8320
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5200.0142	5200	0.0142	2.7223
		T (°C)	10	5200.0308	5200	0.0308	5.9192
		T (°C)	20	5200.0262	5200	0.0262	5.0440
		T (°C)	30	5200.0430	5200	0.0430	8.2598
		T (°C)	40	5200.0318	5200	0.0318	6.1227
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)	12	5240.0142	5240	0.0142	2.7080
		V max (V)	13.2	5240.0054	5240	0.0054	1.0295
		V min (V)	10.8	5240.0330	5240	0.0330	6.2961
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5240.0217	5240	0.0217	4.1367
		T (°C)	10	5240.0351	5240	0.0351	6.7041
		T (°C)	20	5240.0087	5240	0.0087	1.6554
		T (°C)	30	5240.0441	5240	0.0441	8.4186
		T (°C)	40	5240.0535	5240	0.0535	10.2098
Limits				±20ppm			
Result				Complies			