

A.6 POWER SPECTRAL DENSITY

Test Date	2023/10/16 ~ 11/01	Temp./Hum.	24 ~ 25°C/53 ~ 69%
Cable Loss	WiFi: 1.10dB, BLE: 1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.6.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)		MAX. Power Spectral Density (dBm) ^{Note 2}	Limit
		AUX	Main		
802.11b	2412	-5.340	-5.010	-5.010	<8 dBm/3kHz
	2442	-5.290	-5.080	-5.080	
	2462	-5.070	-5.080	-5.070	
	2472	-8.920	-8.800	-8.800	
802.11g	2412	-6.410	-7.510	-6.410	
	2442	-7.780	-6.920	-6.920	
	2462	-7.480	-7.710	-7.480	
	2472	-13.520	-13.780	-13.520	

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

2. MAX. Power Spectral Density (dBm) = Max of each Power Spectral Density (dBm).

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)		Total Power Spectral Density (dBm) <small>Note 2</small>	Limit
		AUX	Main		
802.11n-HT20	2412	-9.320	-9.220	-6.259	<8 dBm/3kHz
	2442	-7.560	-7.380	-4.459	
	2462	-9.120	-9.790	-6.432	
	2472	-19.350	-19.240	-16.284	
802.11n-HT40	2422	-12.690	-12.800	-9.734	
	2442	-12.060	-12.110	-9.075	
	2452	-13.330	-12.210	-9.724	
	2462	-22.660	-22.300	-19.466	
802.11ax-HE20	2412	-10.090	-10.020	-7.045	
	2442	-7.890	-6.320	-4.024	
	2462	-10.320	-10.600	-7.447	
	2472	-21.260	-21.470	-18.353	
802.11ax-HE40	2422	-14.950	-14.000	-11.439	
	2442	-13.640	-13.120	-10.362	
	2452	-15.420	-13.850	-11.554	
	2462	-23.510	-23.250	-20.368	

Mode	RU Configuration	Centre Frequency (MHz)	Power Spectral Density (dBm)		Total Power Spectral Density (dBm) <small>Note 2</small>	Limit
			AUX	Main		
802.11ax-HE20	26/0	2412	1.340	0.380	3.897	<8 dBm/3kHz
	52/37		-1.900	-1.640	1.242	
	106/53		-4.570	-4.800	-1.673	
	26/8	2472	-11.760	-11.940	-8.839	
	52/40		-12.950	-13.360	-10.140	
	106/54		-16.430	-16.740	-13.572	
802.11ax-HE40	242/61	2422	-9.790	-10.490	-7.116	
	242/62	2462	-19.290	-20.130	-16.679	

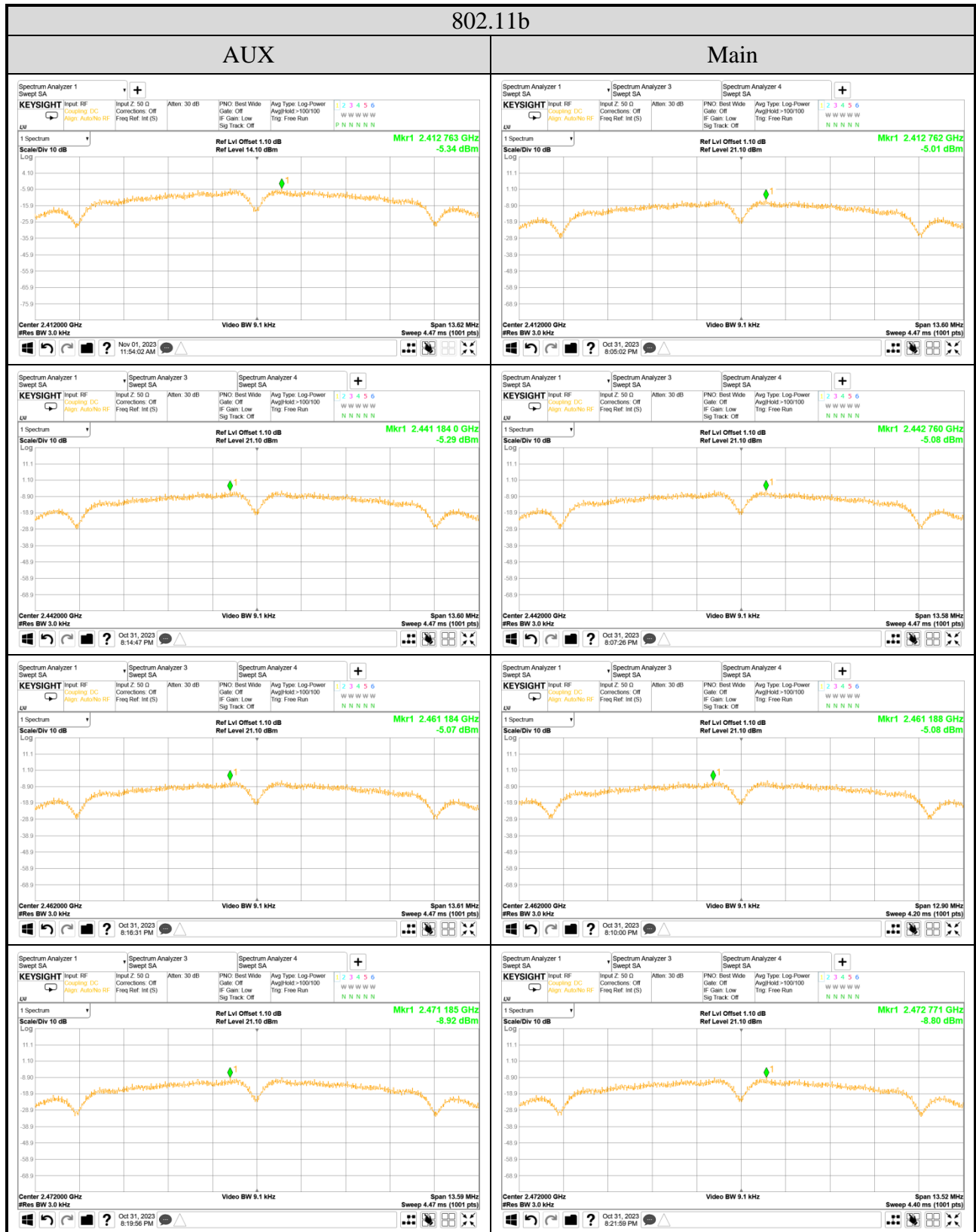
Note: 1. All results have been included cable loss.

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm) = Sum to individual Power Spectral Density (dBm).

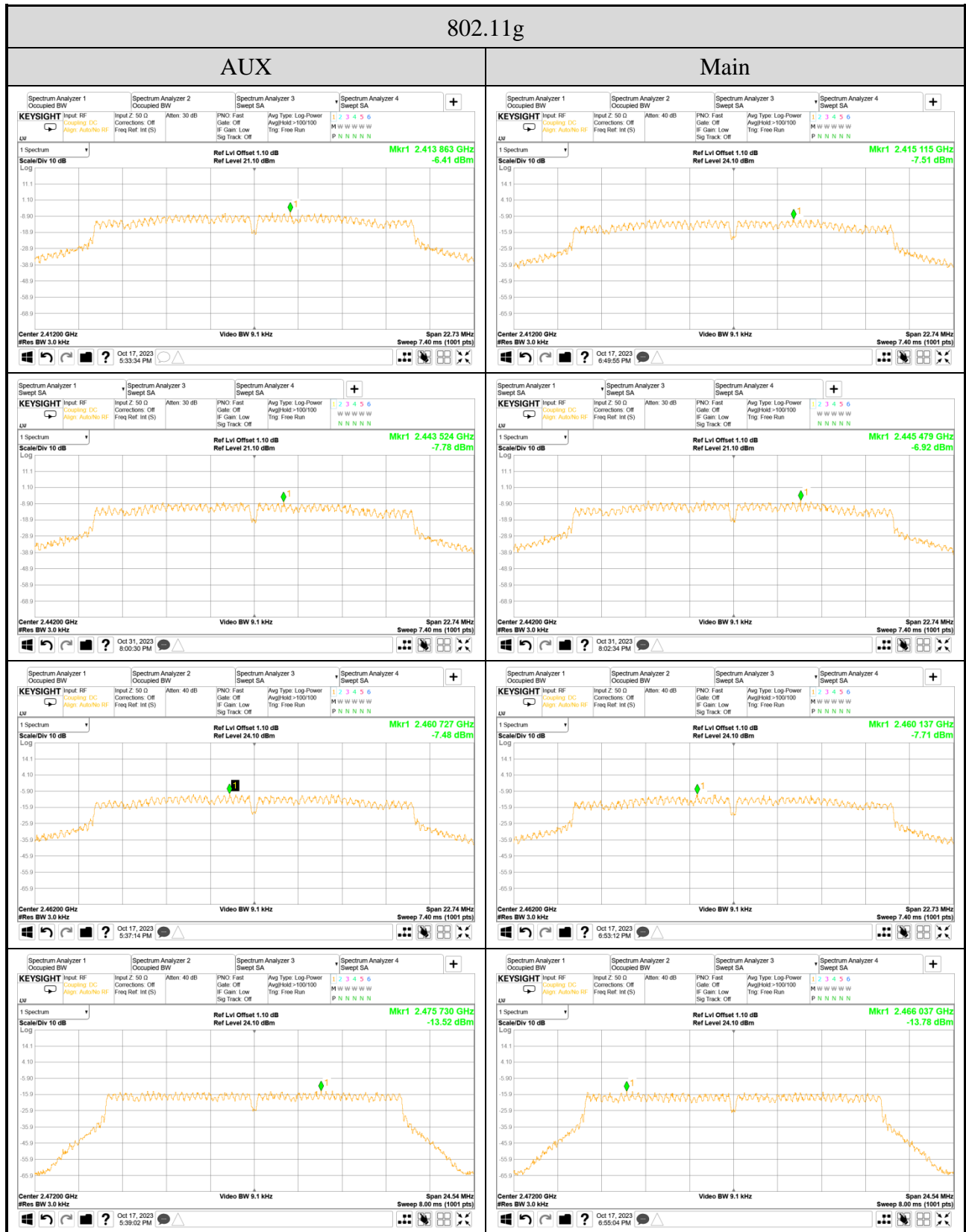
Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
BLE (1M)	2402	-8.29	<8 dBm/3kHz
	2440	-7.88	
	2480	-7.91	
BLE (2M)	2402	-10.72	
	2440	-10.20	
	2480	-9.12	
BLE (PHY Coded S2)	2402	0.80	
	2440	1.28	
	2480	0.71	
BLE (PHY Coded S8)	2402	0.08	
	2440	0.56	
	2480	1.55	

Note: All results have been included cable loss.

A.6.2 Measurement Plots



Note: All results have been included cable loss.

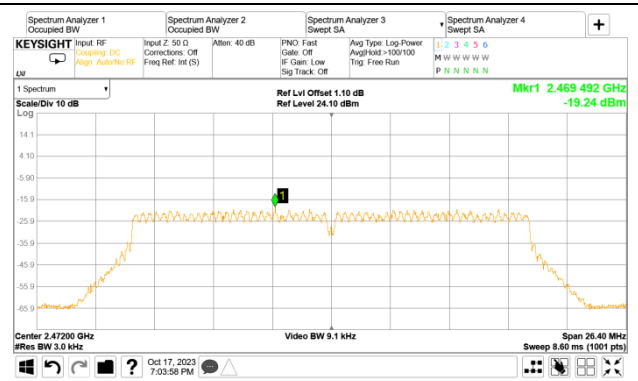
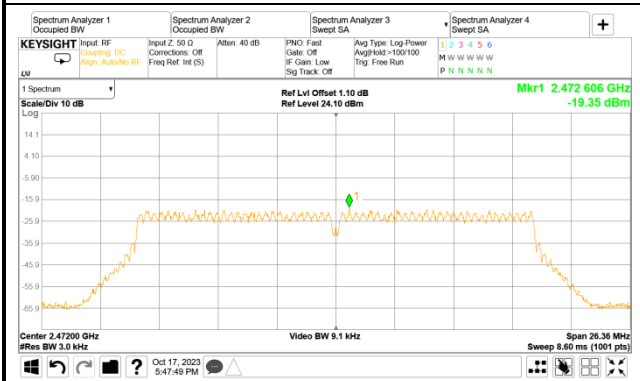
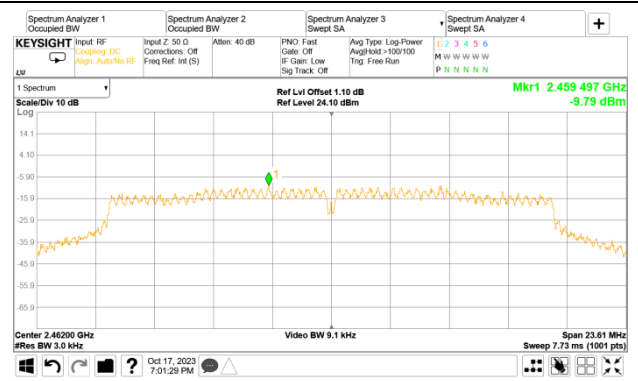
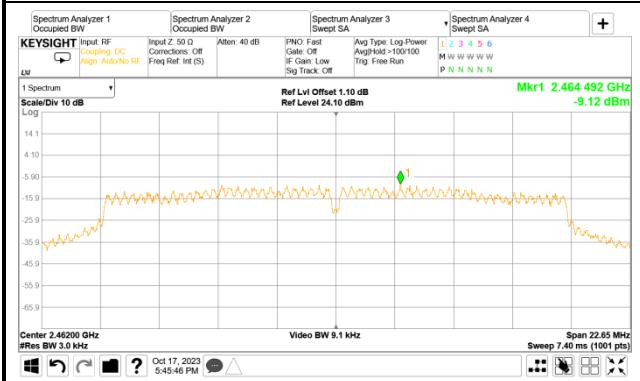
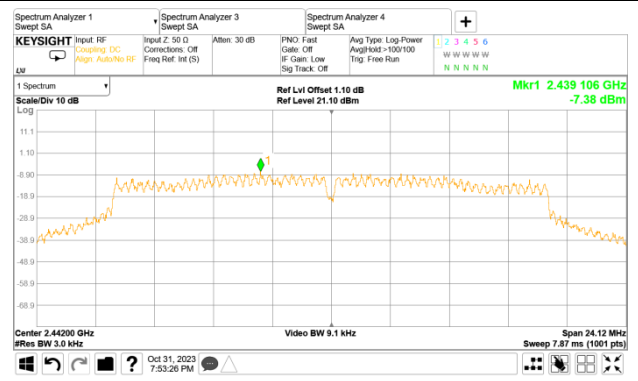
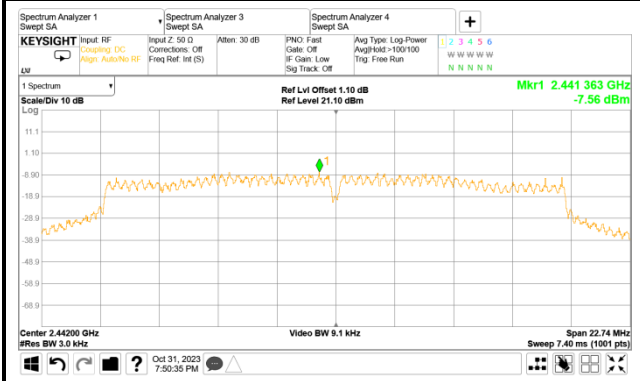
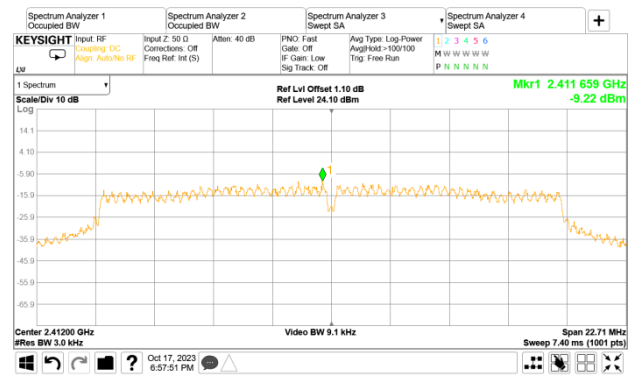
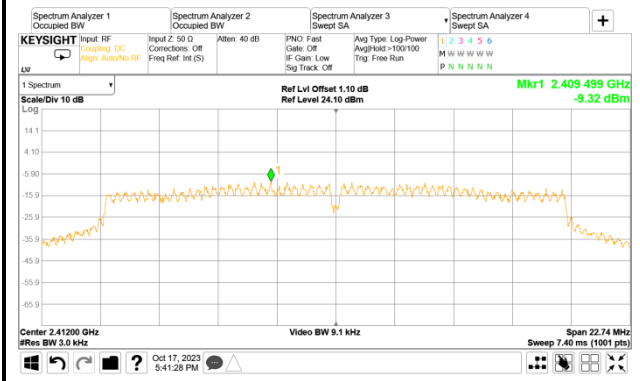


Note: All results have been included cable loss.

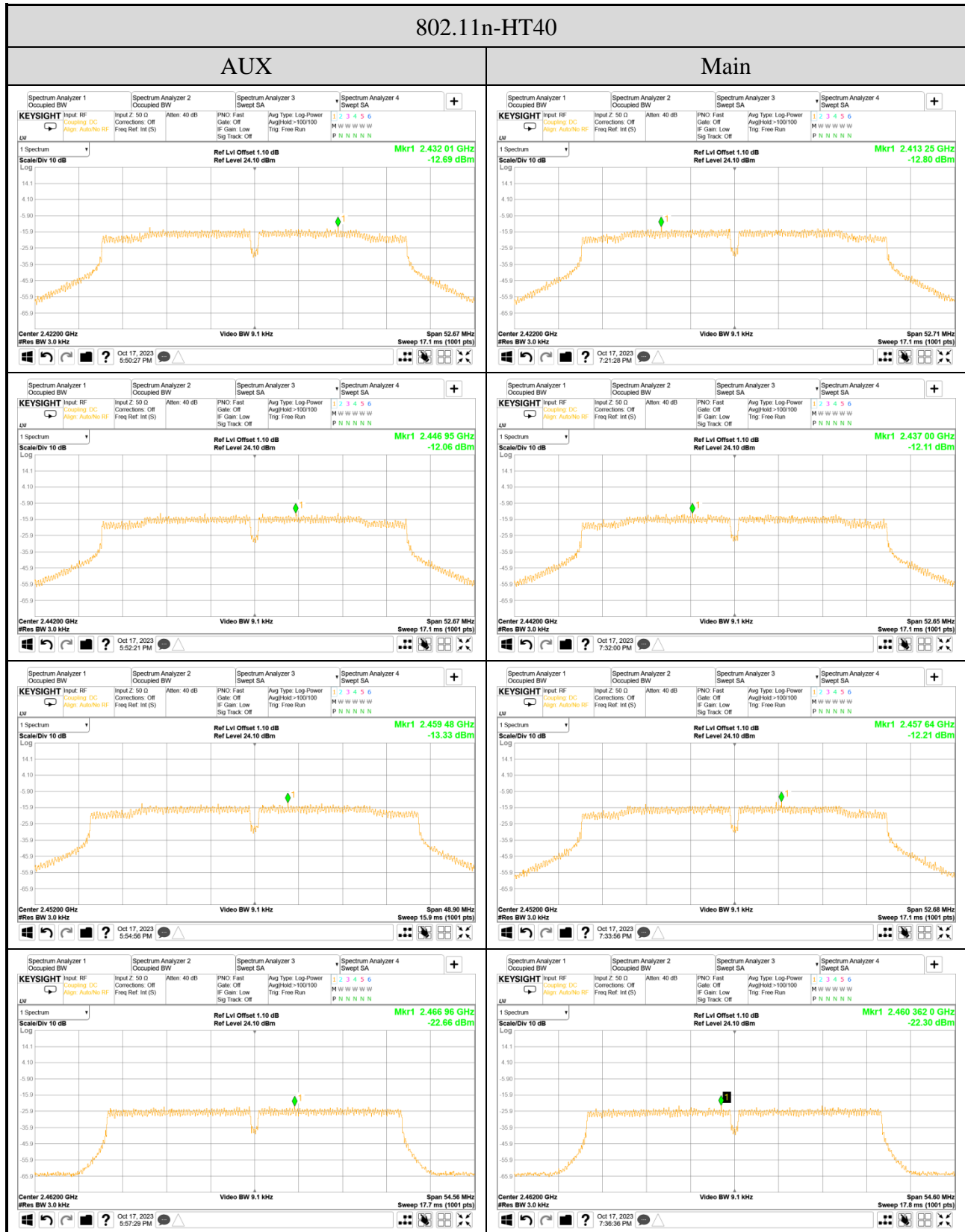
802.11n-HT20

AUX

Main

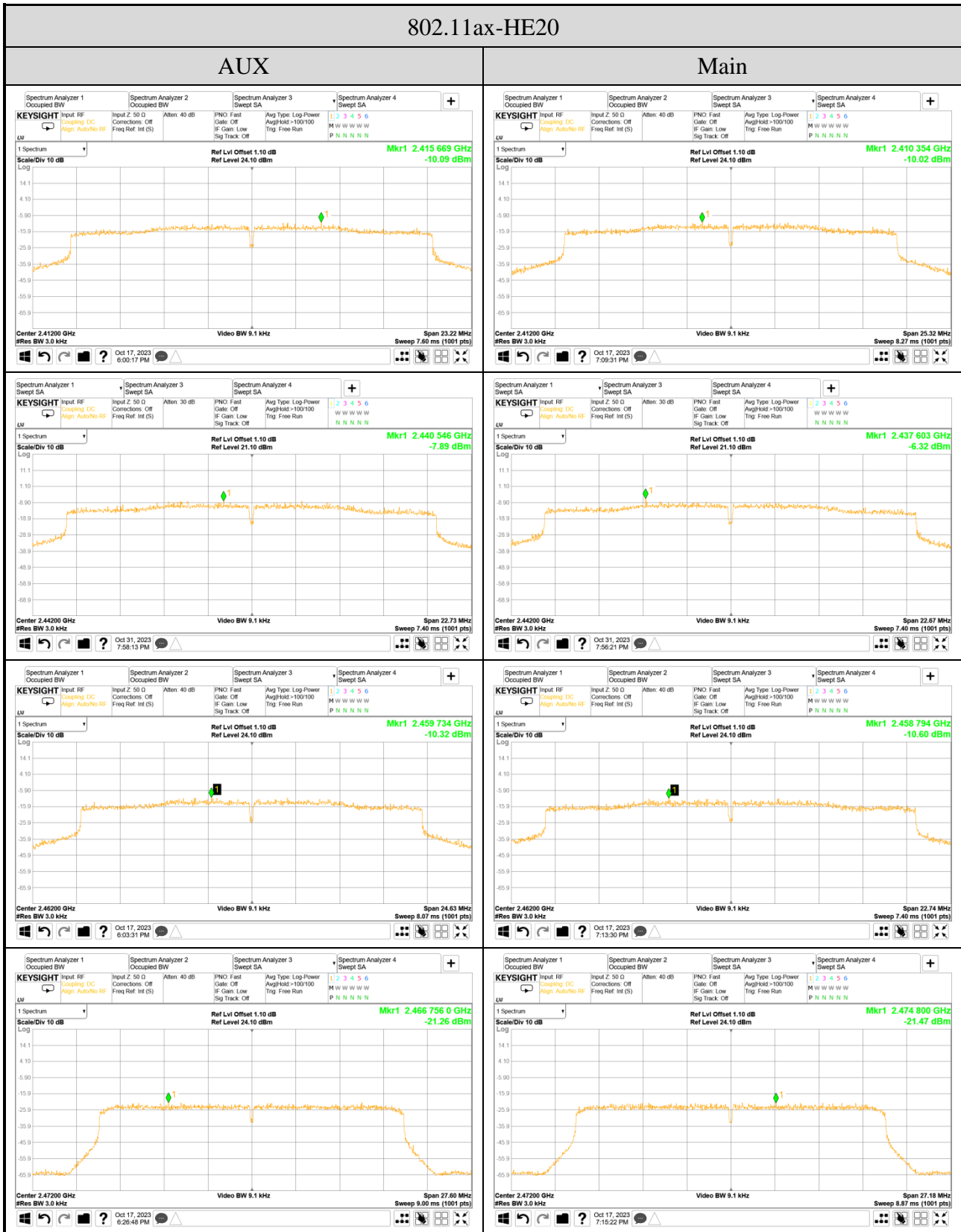


Note: All results have been included cable loss.

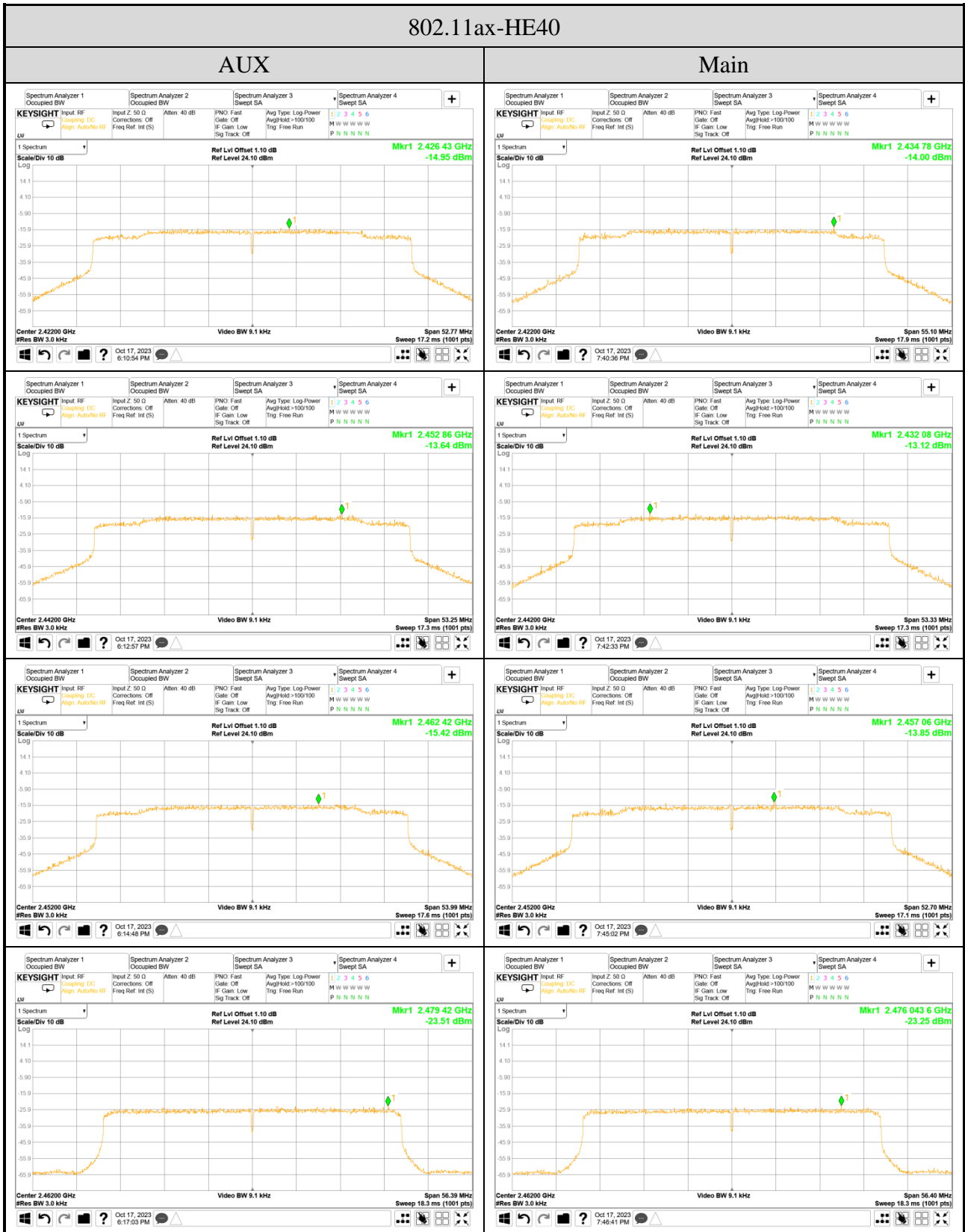


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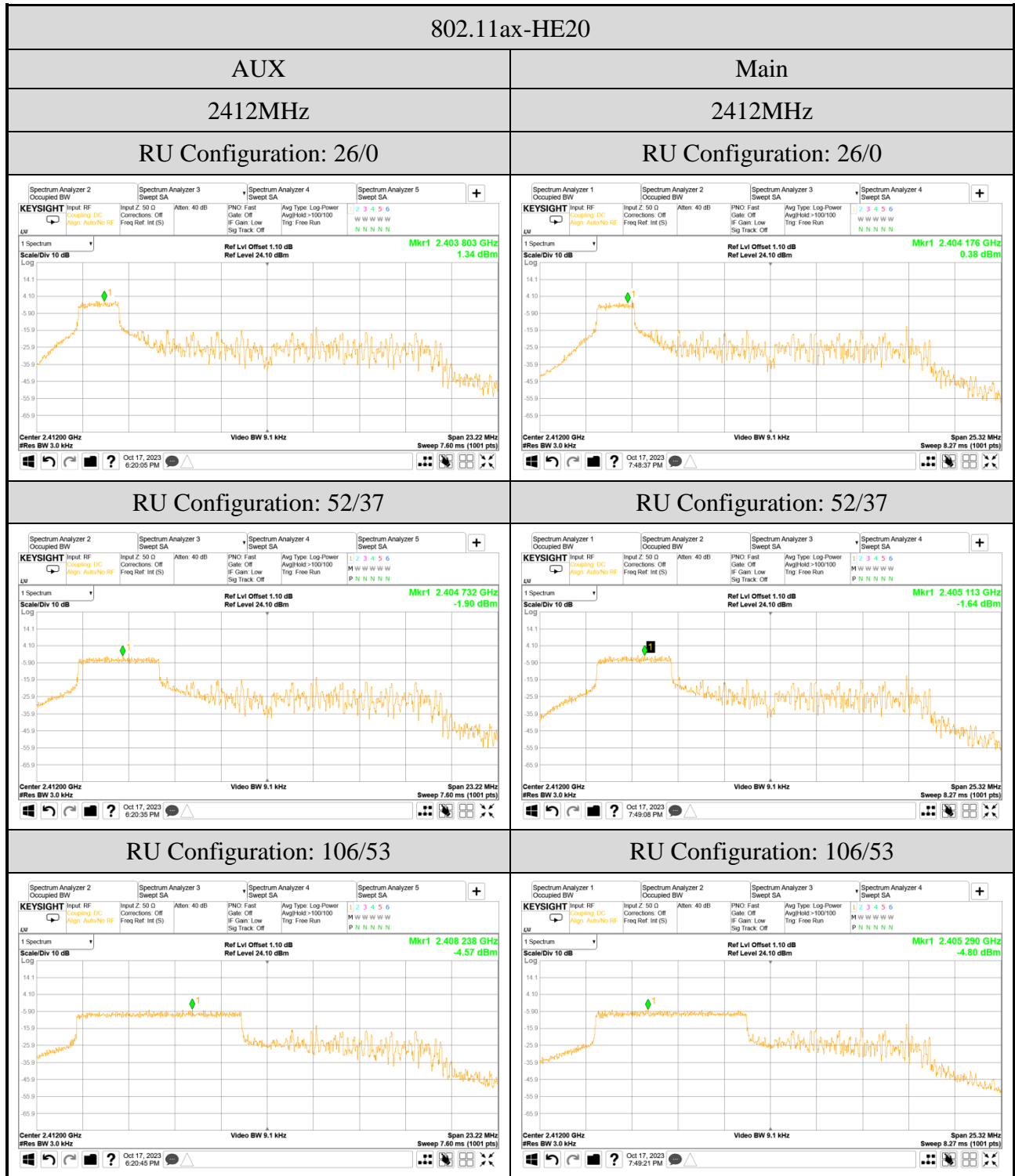
802.11ax-HE20



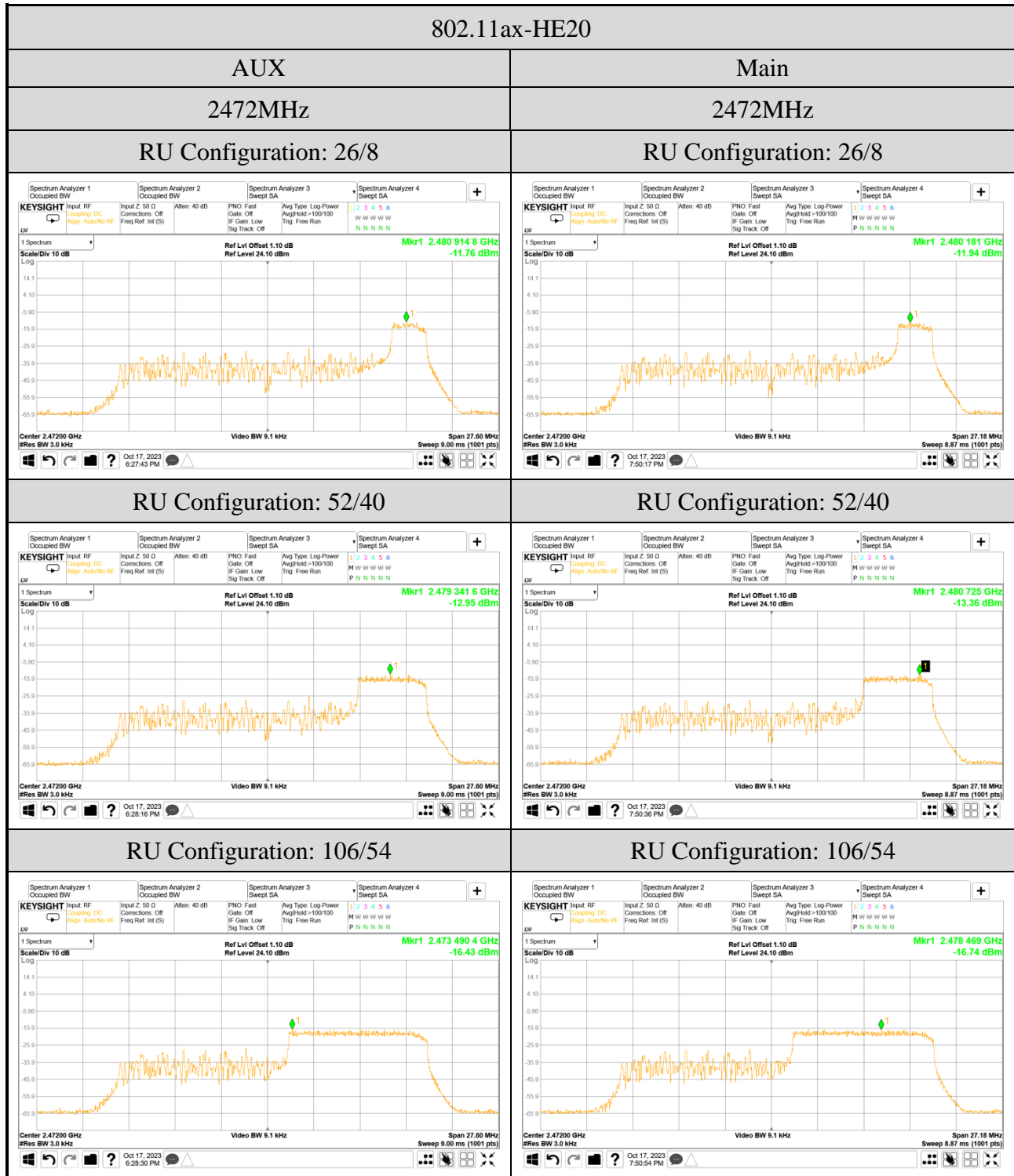
Note: All results have been included cable loss.



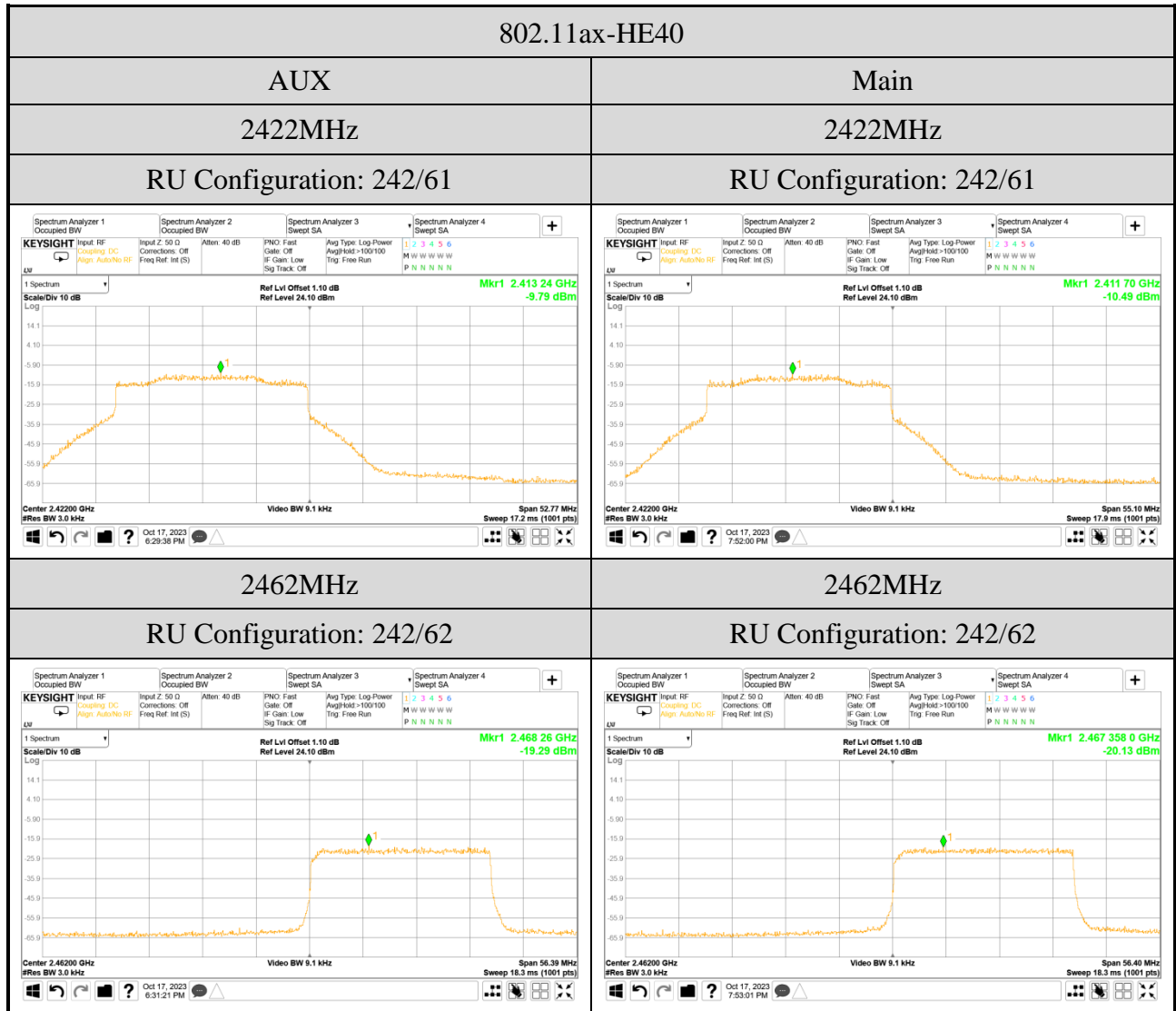
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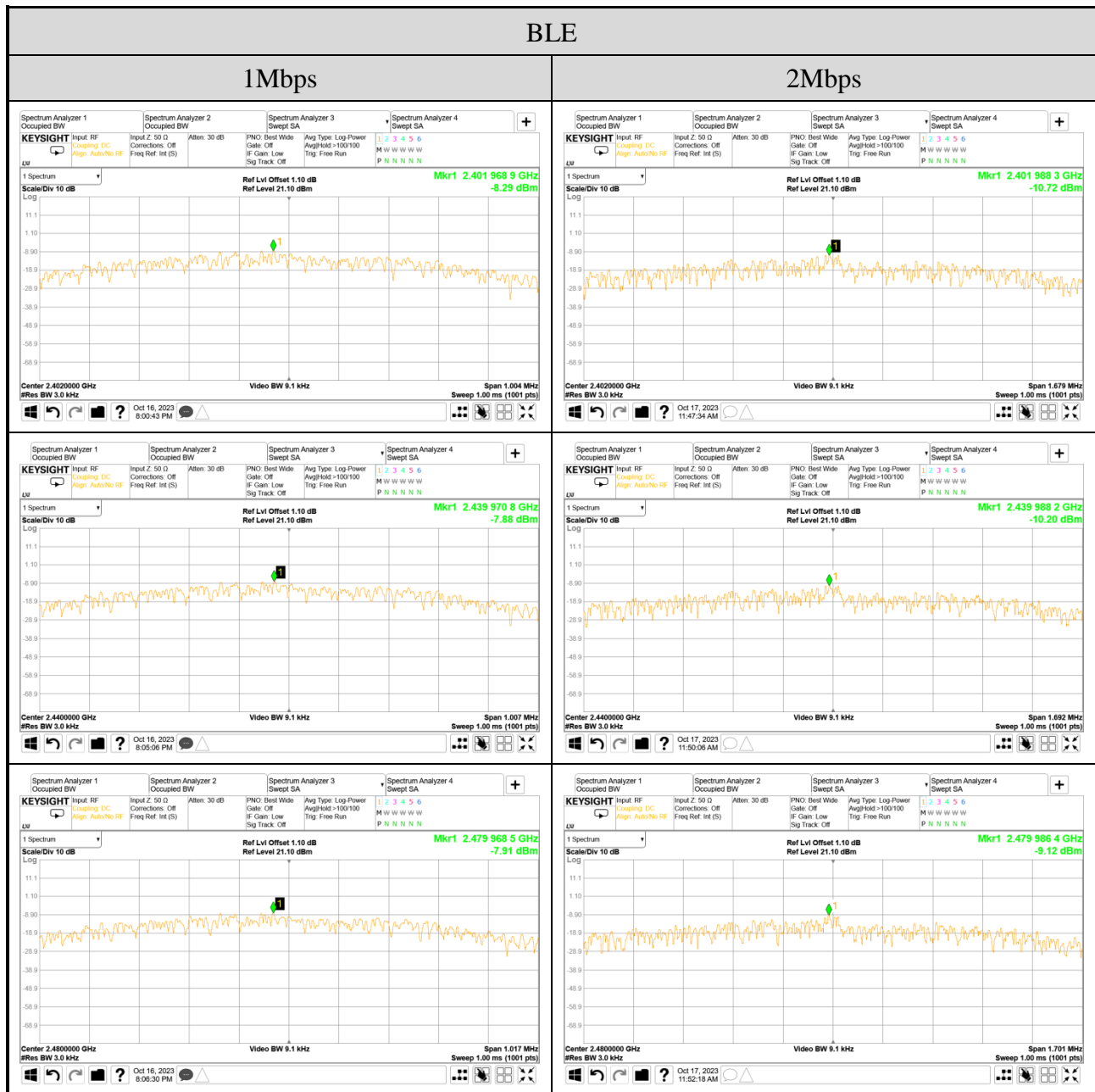
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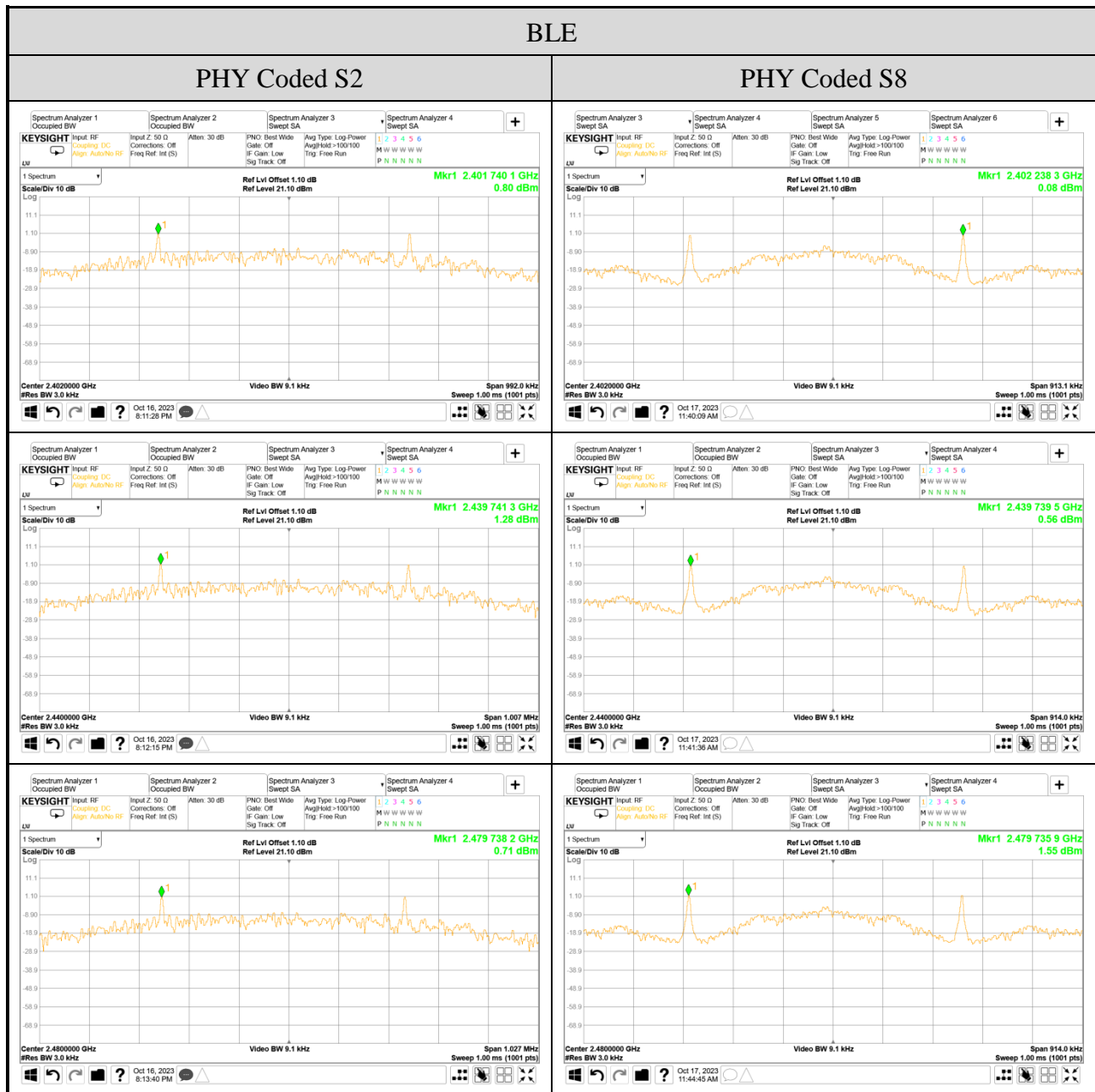
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