











5.2.4. In-Band Emission (Mask) Measurement

Reference Appendix A

5.2.5. Contention Based Protocol Measurement

UNII	Bandwidth (MHz)	Channel	Frequency (MHz)	Incumbent Placement/ Frequency (MHz)	Injected (AWGN) power (dBm)	Antenna Gain (dBi)	Adjusted power (dBm)	Detection Limit (dBm)	Detection Trials	AWGN Detection Probability (%)	Limit Probability (%)	Result
5	20	37	6135	6135	-57.9	4.10	-62	-62	10	100	90	PASS
				6110	-57.9	4.10	-62	-62	10	100	90	PASS
	160	47	6185	6285	-57.9	4.10	-62	-62	10	100	90	PASS
				6260	-57.9	4.10	-62	-62	10	100	90	PASS
6	20	101	6455	6455	-58.6	3.40	-62	-62	10	100	90	PASS
				6430	-58.6	3.40	-62	-62	10	100	90	PASS
	160	111	6505	6505	-58.6	3.40	-62	-62	10	100	90	PASS
				6580	-58.6	3.40	-62	-62	10	100	90	PASS
7	20	149	6695	6695	-58.0	4.00	-62	-62	10	100	90	PASS
				6590	-58.0	4.00	-62	-62	10	100	90	PASS
	160	143	6665	6665	-58.0	4.00	-62	-62	10	100	90	PASS
				6740	-58.0	4.00	-62	-62	10	100	90	PASS
8	20	213	7015	7015	-57.4	4.60	-62	-62	10	100	90	PASS
				6910	-57.4	4.60	-62	-62	10	100	90	PASS
	160	207	6985	6985	-57.4	4.60	-62	-62	10	100	90	PASS
				7060	-57.4	4.60	-62	-62	10	100	90	PASS

Note 1 : Adjusted power = Injected (AWGN) power (dBm) – Antenna Gain (dBi).

Note 2 : Injected (AWGN) power Include Path Loss.

Contention Based Protocol Threshold Level Verify									
UNII	Bandwidth (MHz)	Channel	Frequency (MHz)	Interference Freq (MHz)	Injected (AWGN) power (dBm)	Antenna Gain (dBi)	The Lowest Detection Level of AWGN Interference (dBm)	Detection Limit (dBm)	Situation of EUT
5	20	37	6135	6135	-61.9	4.10	-66.00	-62.00	OFF
					-62.9	4.10	-67.00	-62.00	Minimal
					-69.9	4.10	-74.00	-62.00	ON
	160	47	6185	6110	-68.9	4.10	-73.00	-62.00	OFF
					-69.9	4.10	-74.00	-62.00	Minimal
					-71.9	4.10	-76.00	-62.00	ON
				6185	-65.9	4.10	-70.00	-62.00	OFF
					-66.9	4.10	-71.00	-62.00	Minimal
					-68.9	4.10	-73.00	-62.00	ON
				6260	-69.9	4.10	-74.00	-62.00	OFF
					-70.9	4.10	-75.00	-62.00	Minimal
					-72.9	4.10	-77.00	-62.00	ON
6	20	101	6455	6455	-61.6	3.40	-65.00	-62.00	OFF
					-62.6	3.40	-66.00	-62.00	Minimal
					-69.6	3.40	-73.00	-62.00	ON
	160	111	6430	-69.6	3.40	-73.00	-62.00	OFF	
				-70.6	3.40	-74.00	-62.00	Minimal	
				-72.6	3.40	-76.00	-62.00	ON	
			6505	-65.6	3.40	-69.00	-62.00	OFF	
				-66.6	3.40	-70.00	-62.00	Minimal	
				-68.6	3.40	-72.00	-62.00	ON	
			6580	-70.6	3.40	-74.00	-62.00	OFF	
				-71.6	3.40	-75.00	-62.00	Minimal	
				-72.6	3.40	-76.00	-62.00	ON	
7	20	149	6695	6695	-60	4.00	-64.00	-62.00	OFF
					-61	4.00	-65.00	-62.00	Minimal
					-73	4.00	-77.00	-62.00	ON
	160	143	6665	6590	-72	4.00	-76.00	-62.00	OFF
					-73	4.00	-77.00	-62.00	Minimal
					-74	4.00	-78.00	-62.00	ON
			6665	-67	4.00	-71.00	-62.00	OFF	
				-68	4.00	-72.00	-62.00	Minimal	
				-70	4.00	-74.00	-62.00	ON	
			6740	-72	4.00	-76.00	-62.00	OFF	
				-73	4.00	-77.00	-62.00	Minimal	
				-74	4.00	-78.00	-62.00	ON	

Note 1 : Adjusted power = Injected (AWGN) power (dBm) – Antenna Gain (dBi).

Note 2 : Injected (AWGN) power Include Path Loss.

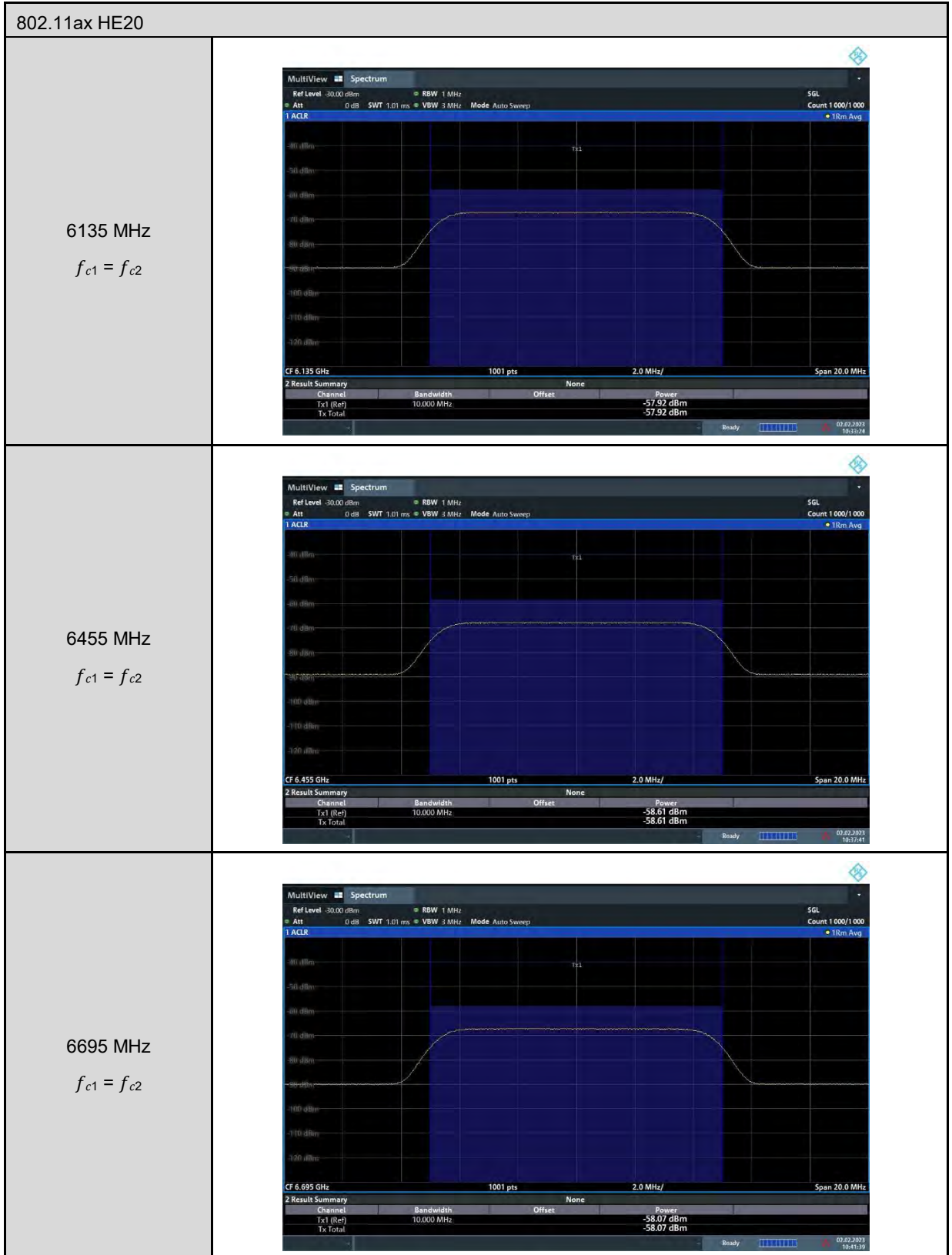
Contention Based Protocol Threshold Level Verify									
UNII	Bandwidth (MHz)	Channel	Frequency (MHz)	Interference Freq (MHz)	Injected (AWGN) power (dBm)	Antenna Gain (dBi)	The Lowest Detection Level of AWGN Interference (dBm)	Detection Limit (dBm)	Situation of EUT
8	20	213	7015	7015	-61.4	4.60	-66.00	-62.00	OFF
					-62.4	4.60	-67.00	-62.00	Minimal
					-74.4	4.60	-79.00	-62.00	ON
	160	207	6985	6910	-73.4	4.60	-78.00	-62.00	OFF
					-74.4	4.60	-79.00	-62.00	Minimal
					-75.4	4.60	-80.00	-62.00	ON
				6985	-68.4	4.60	-73.00	-62.00	OFF
					-69.4	4.60	-74.00	-62.00	Minimal
					-70.4	4.60	-75.00	-62.00	ON
				7060	-71.4	4.60	-76.00	-62.00	OFF
					-72.4	4.60	-77.00	-62.00	Minimal
					-74.4	4.60	-79.00	-62.00	ON

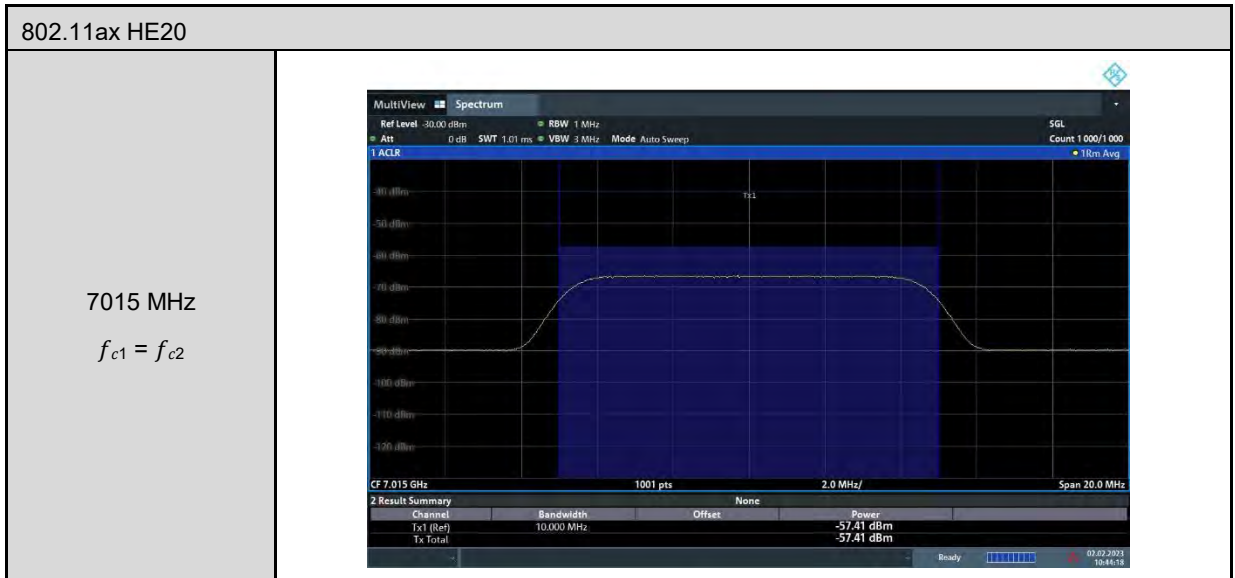
Note 1 : Adjusted power = Injected (AWGN) power (dBm) – Antenna Gain (dBi).

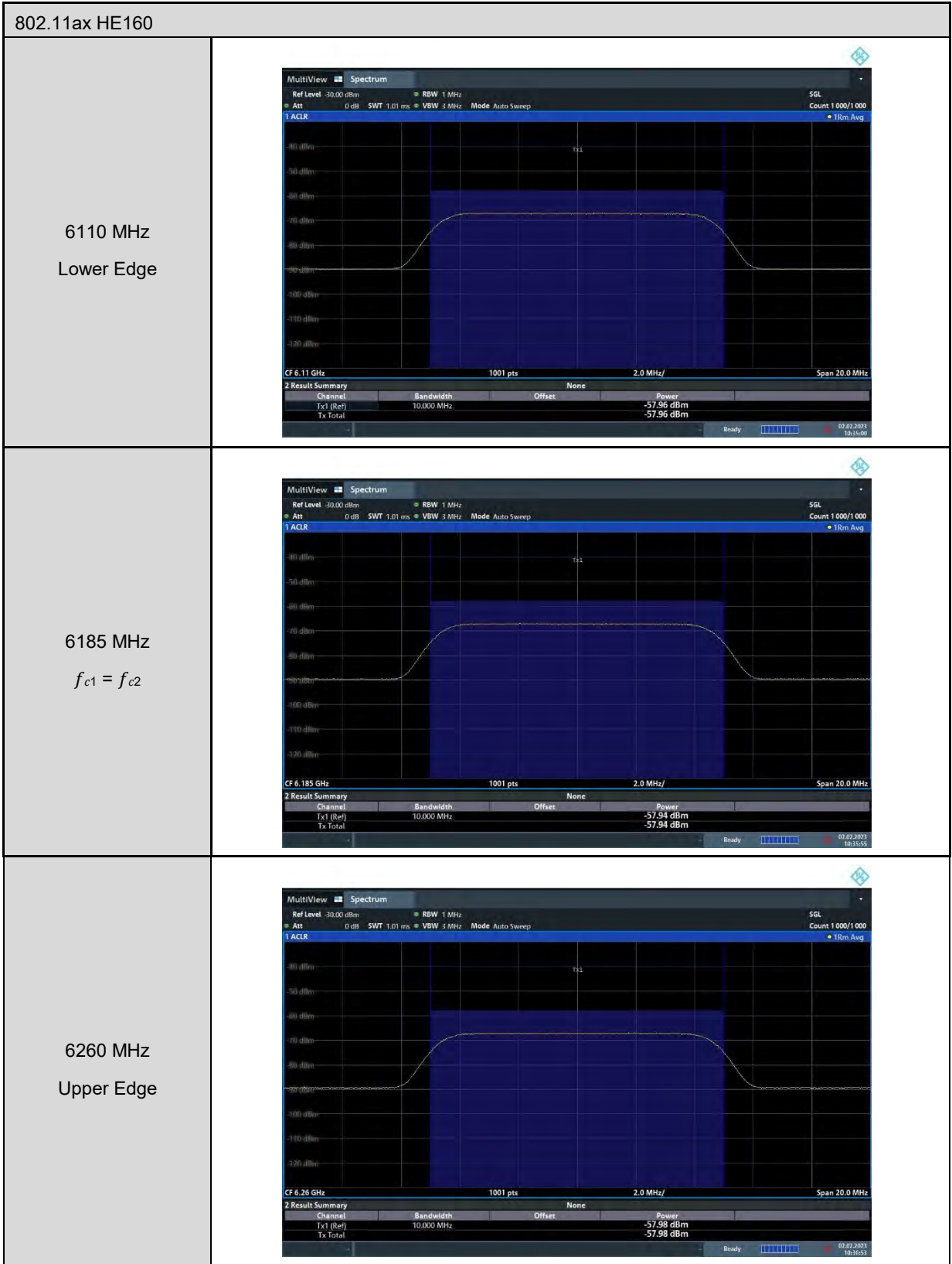
Note 2 : Injected (AWGN) power Include Path Loss.

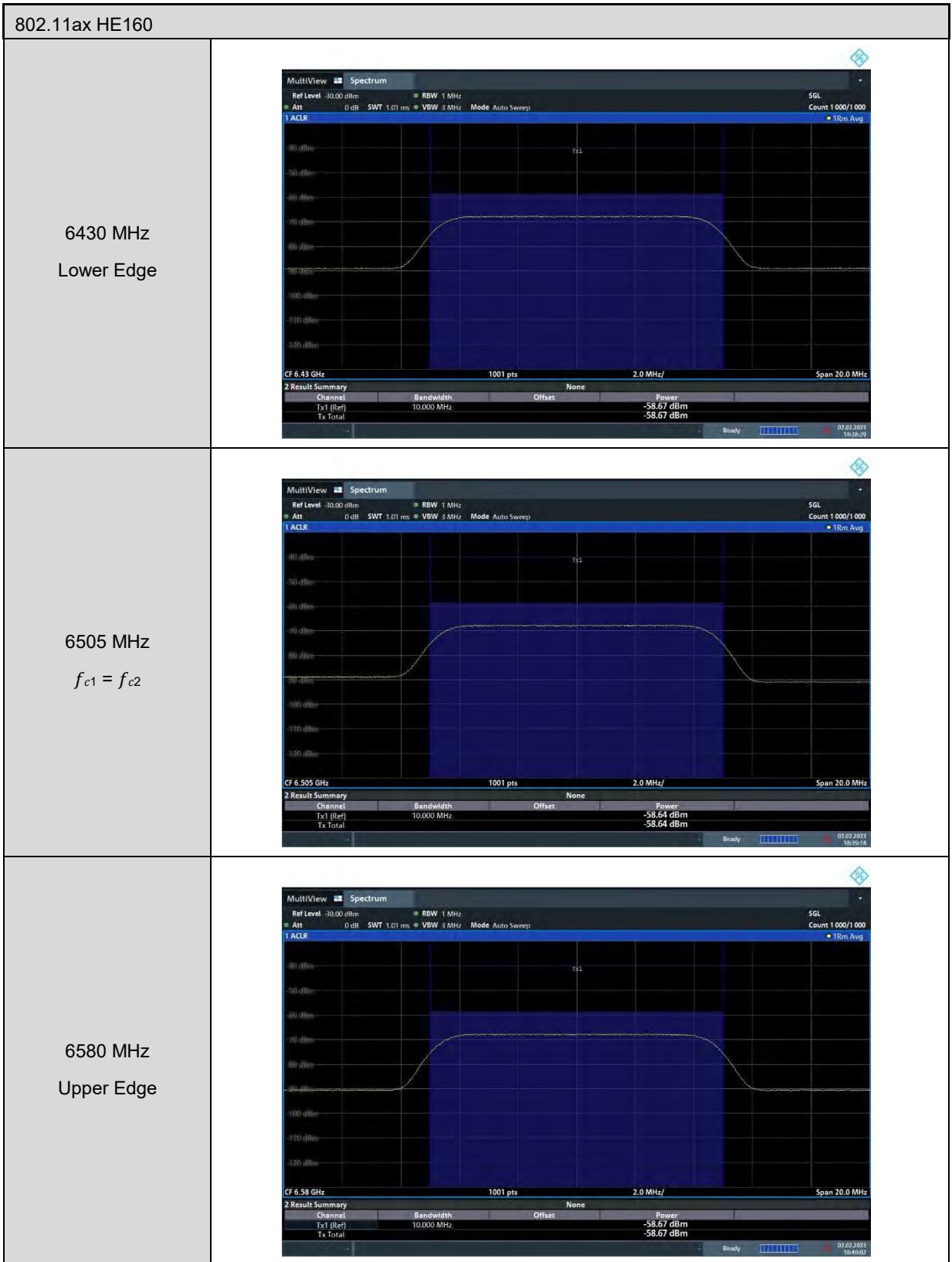
■ Test Graphs

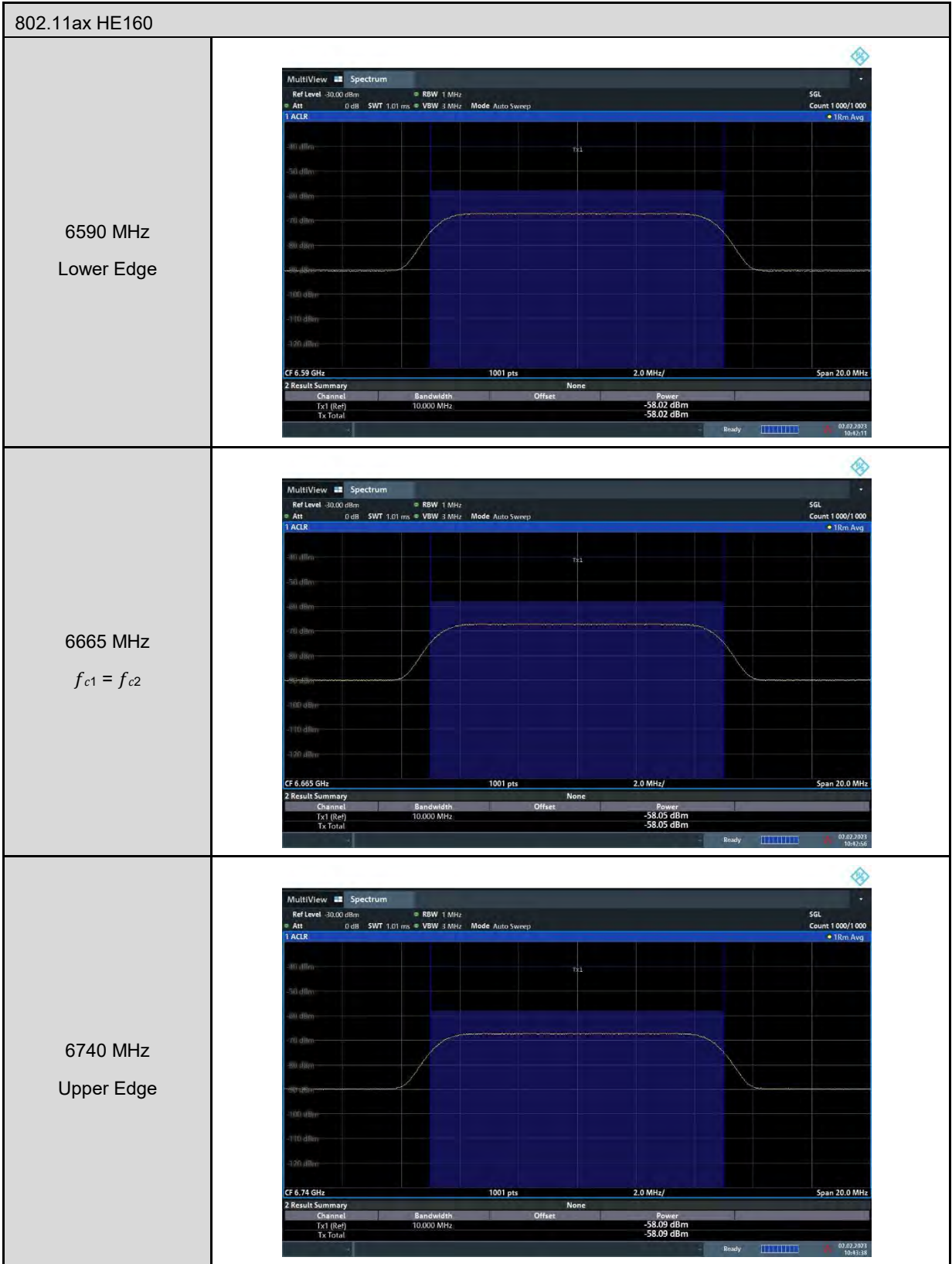
Threshold level of AWGN interference Plot

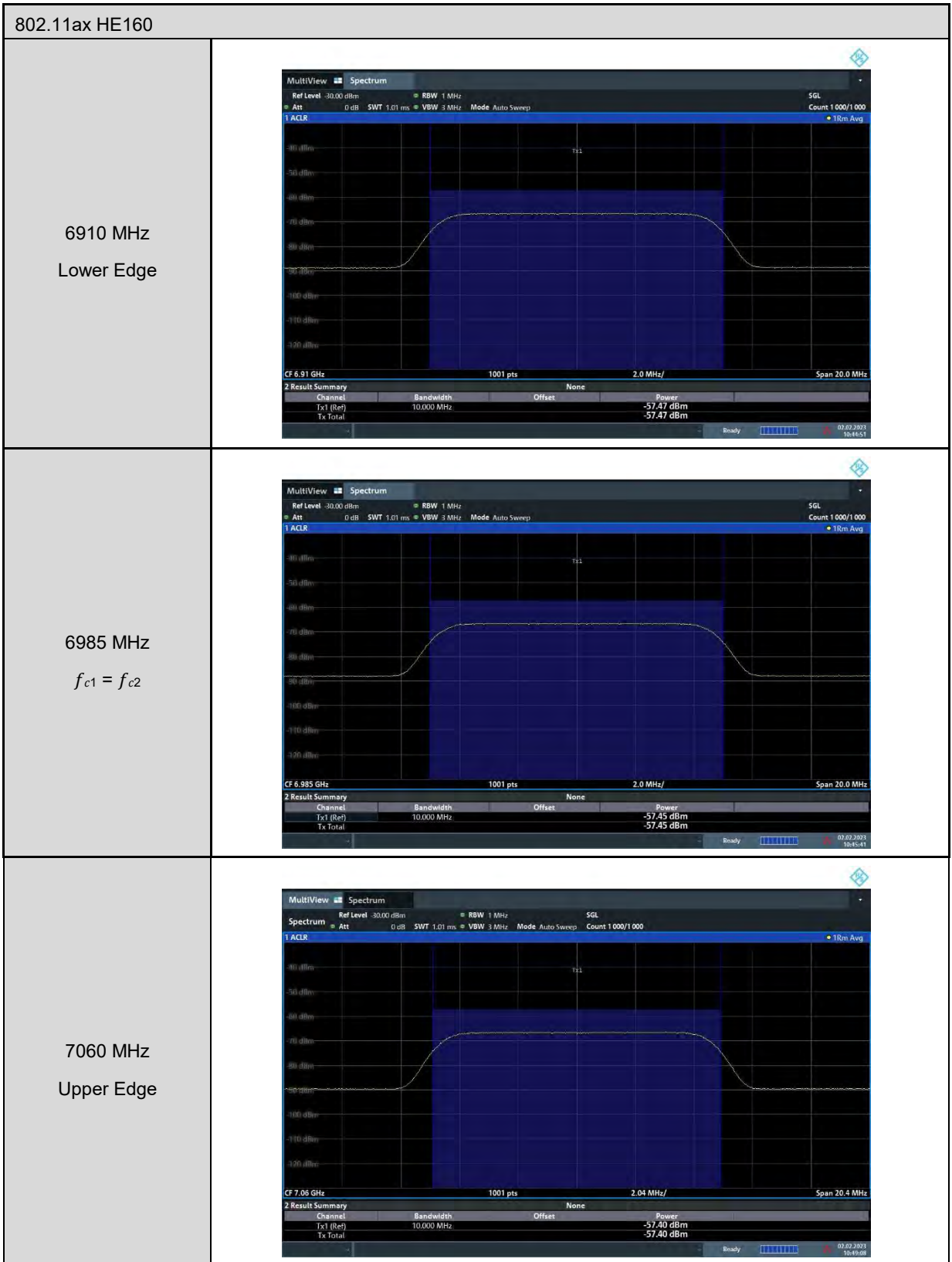






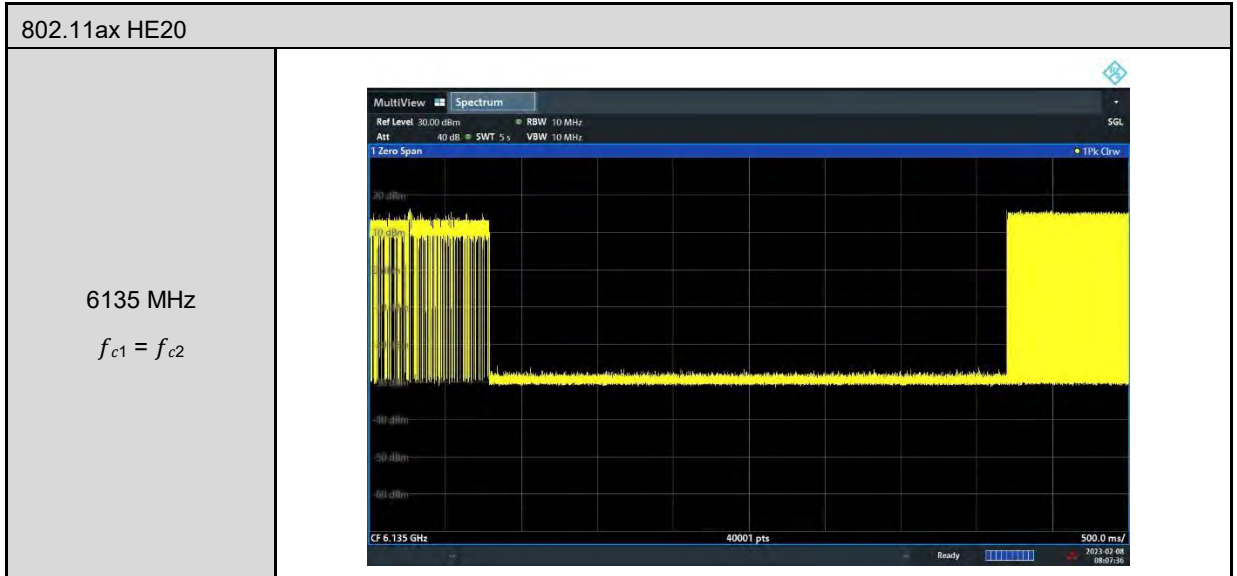






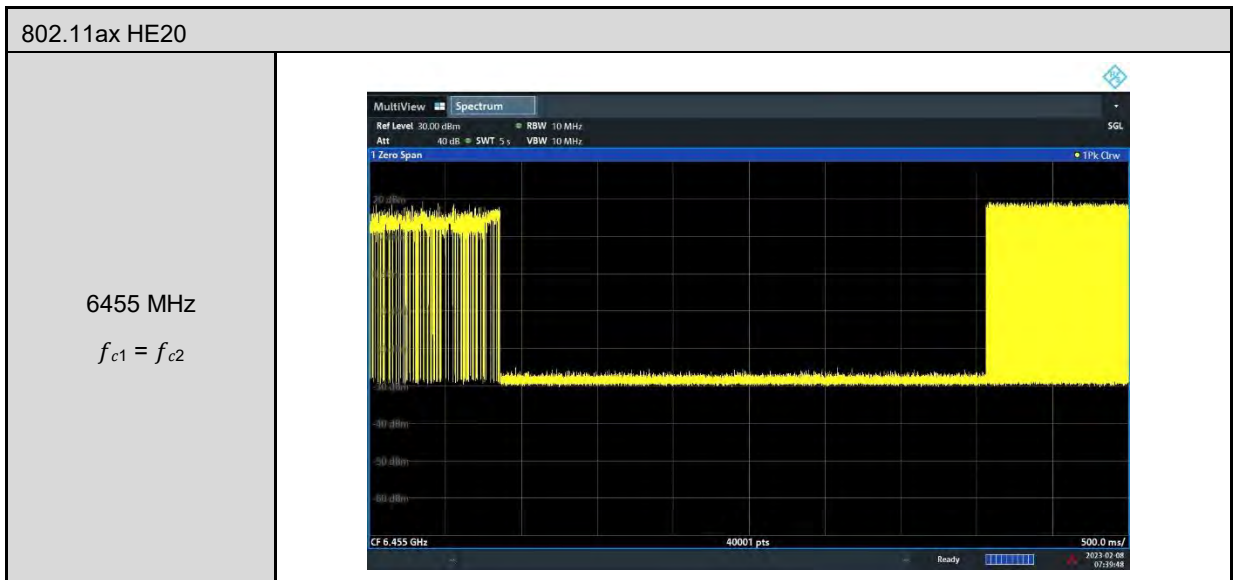
Contention Based Protocol Plot

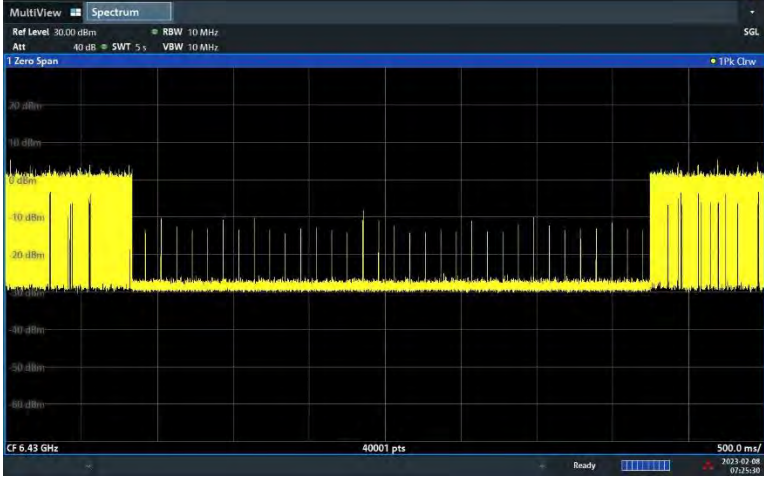
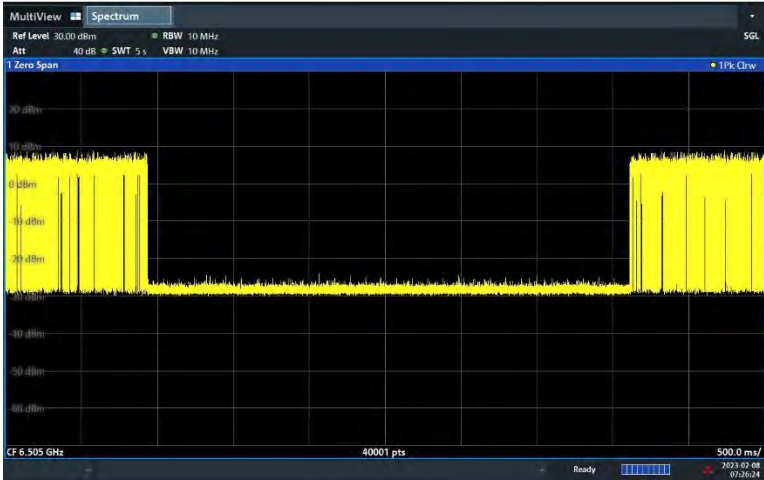
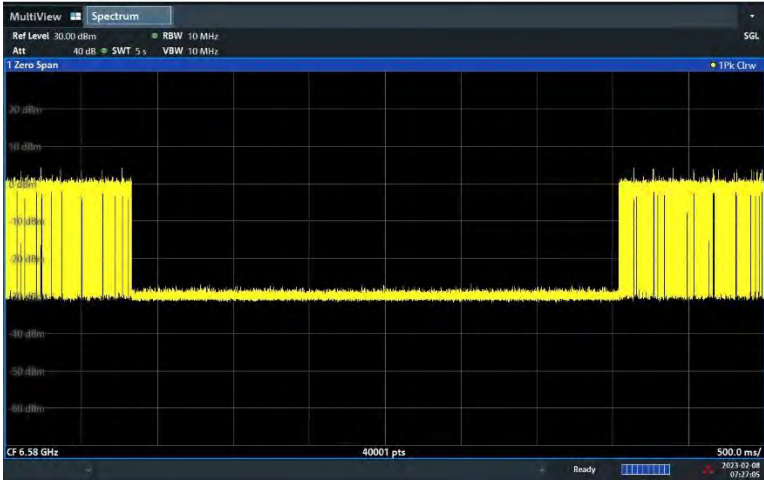
UNII 5:



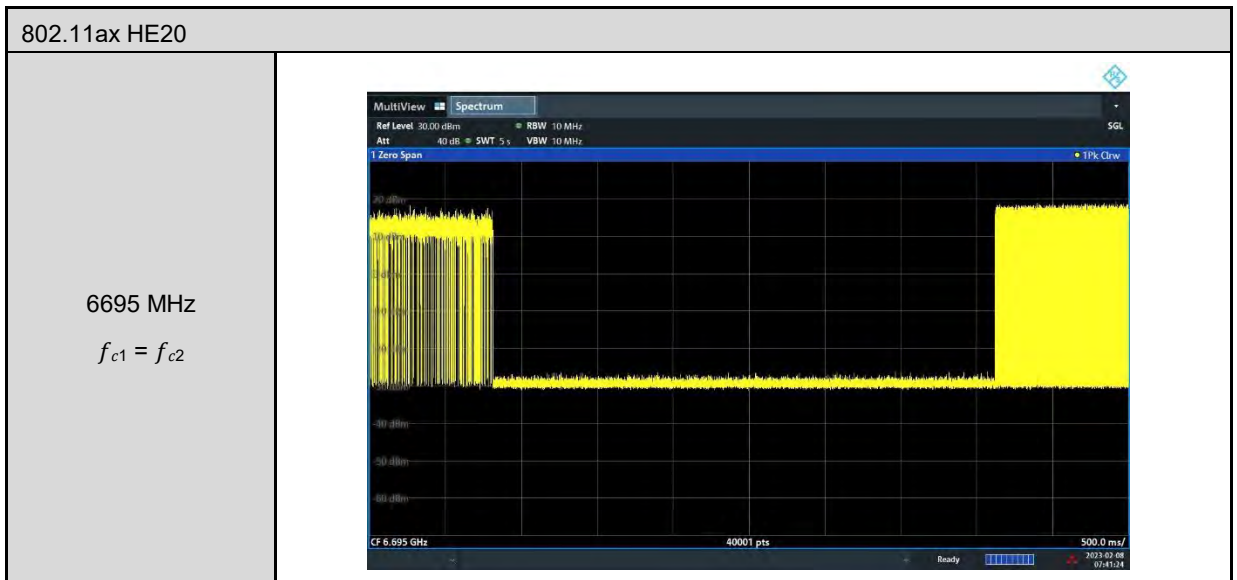
802.11ax HE160	
6110 MHz Lower Edge	
6185 MHz $f_{c1} = f_{c2}$	
6260 MHz Upper Edge	

UNII 6:



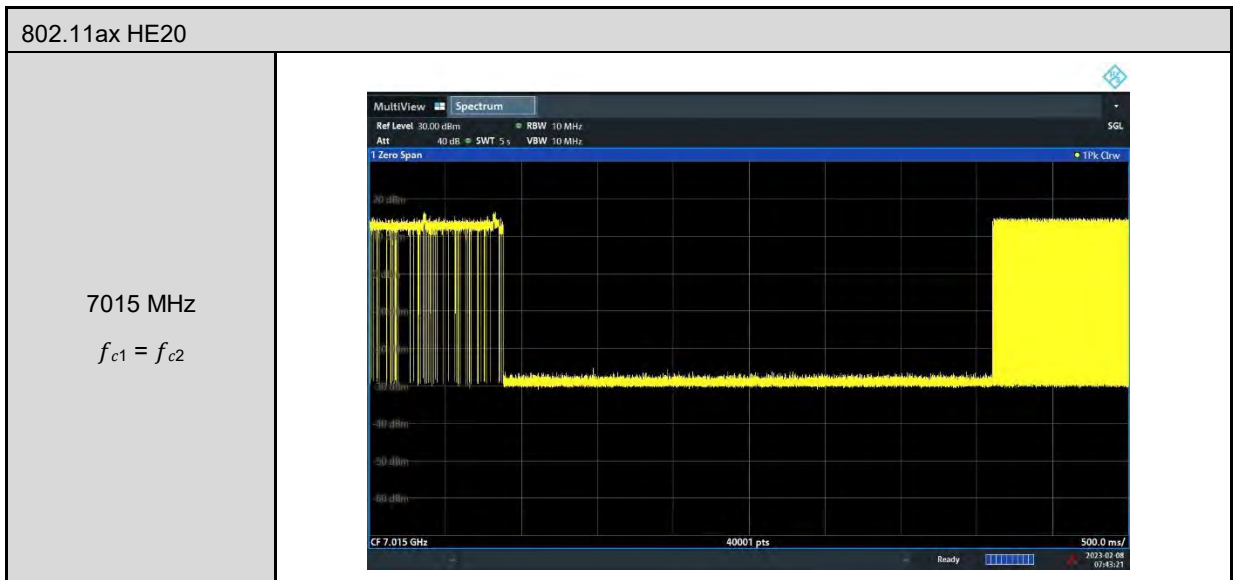
802.11ax HE160	
6430 MHz Lower Edge	 <p>The screenshot shows a spectrum analyzer interface with a center frequency of 6.43 GHz. The vertical axis represents power in dBm, ranging from -80 to 30. The horizontal axis represents frequency. Two distinct signal clusters are visible, one on the left and one on the right, both showing a similar spectral structure with multiple peaks. The background noise floor is relatively flat and low.</p>
6505 MHz $f_{c1} = f_{c2}$	 <p>The screenshot shows a spectrum analyzer interface with a center frequency of 6.505 GHz. The vertical axis represents power in dBm, ranging from -80 to 30. The horizontal axis represents frequency. Two distinct signal clusters are visible, one on the left and one on the right, both showing a similar spectral structure with multiple peaks. The background noise floor is relatively flat and low.</p>
6580 MHz Upper Edge	 <p>The screenshot shows a spectrum analyzer interface with a center frequency of 6.58 GHz. The vertical axis represents power in dBm, ranging from -80 to 30. The horizontal axis represents frequency. Two distinct signal clusters are visible, one on the left and one on the right, both showing a similar spectral structure with multiple peaks. The background noise floor is relatively flat and low.</p>

UNII 7:



802.11ax HE160	
6590 MHz Lower Edge	
6665 MHz $f_{c1} = f_{c2}$	
6740 MHz Upper Edge	

UNII 8:

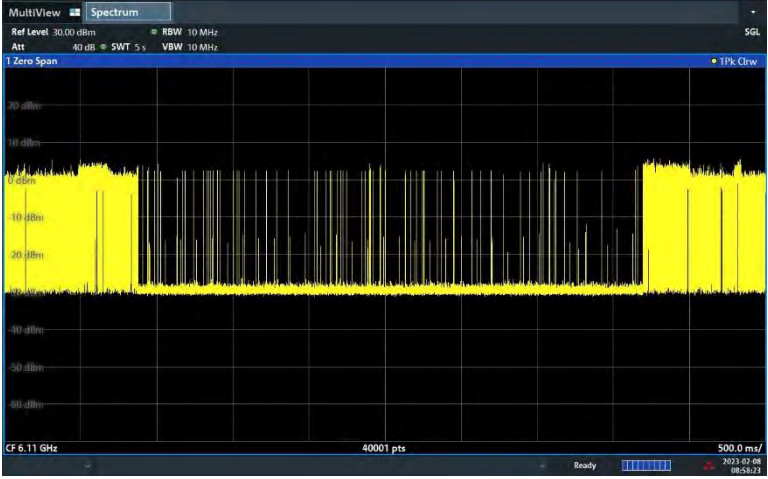
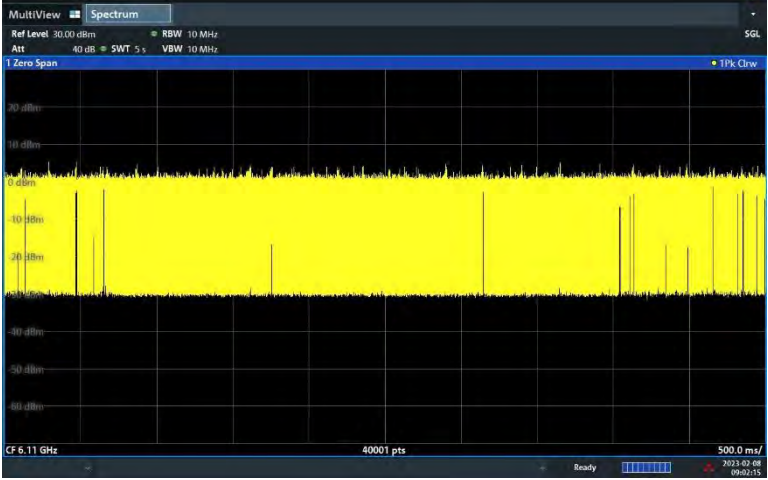
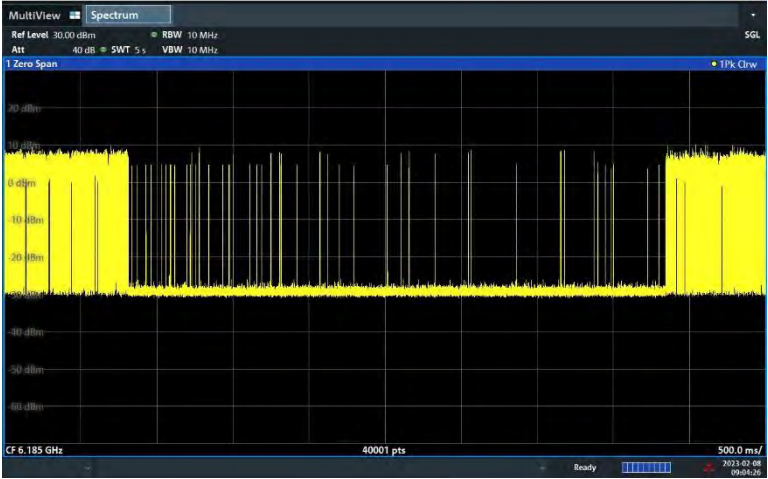


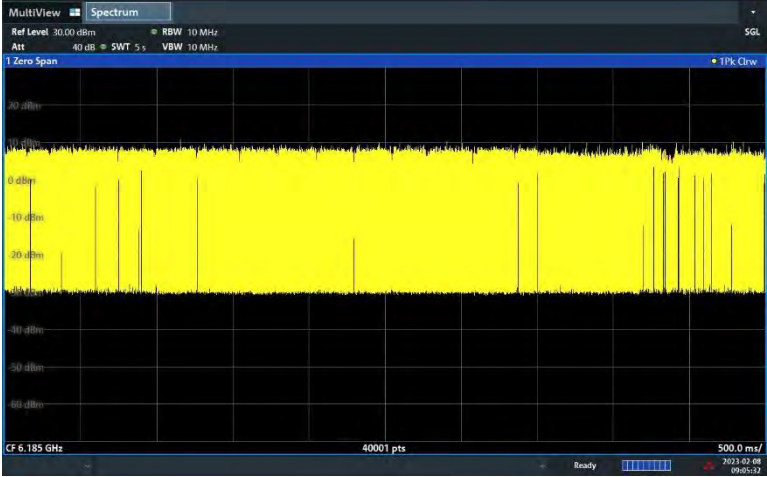
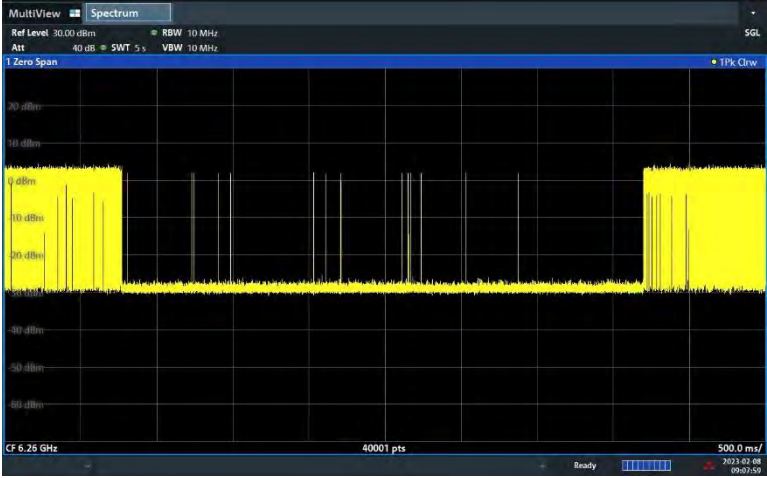
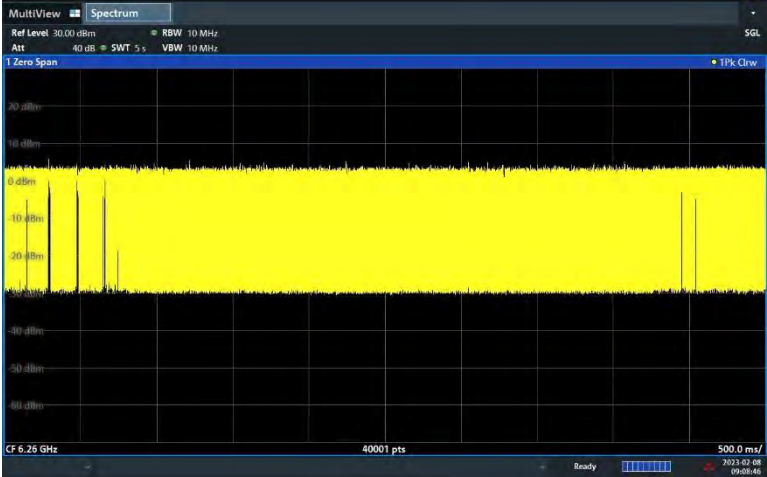
802.11ax HE160	
6910 MHz Lower Edge	
6985 MHz $f_{c1} = f_{c2}$	
7060 MHz Upper Edge	

Contention Based Protocol Threshold Level Verify

UNII 5:

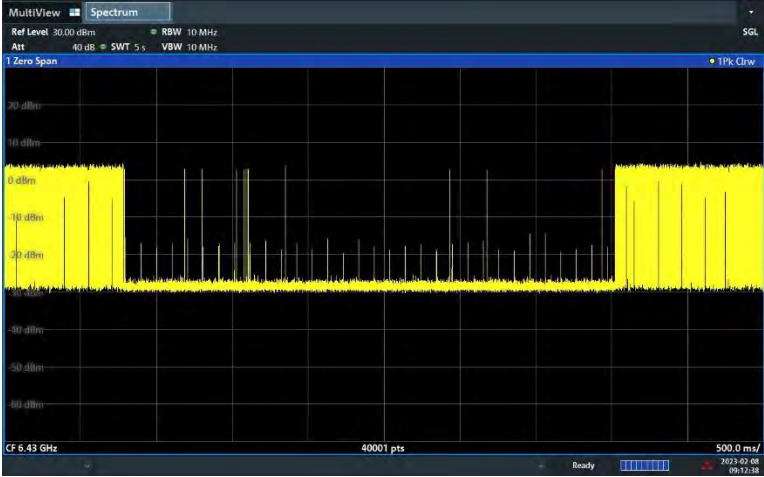
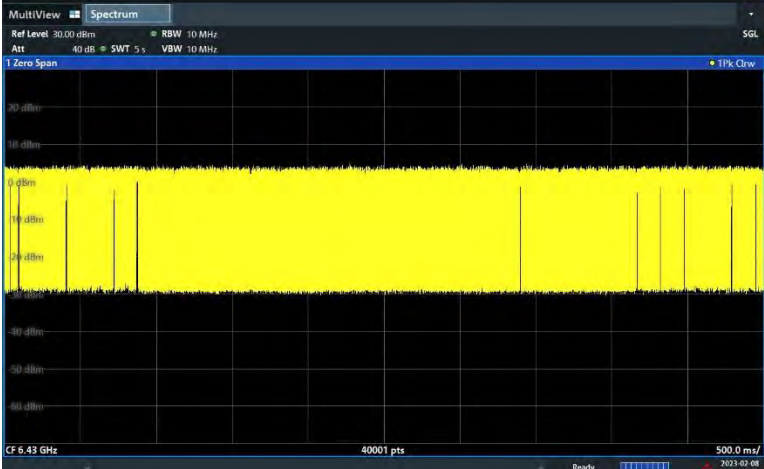
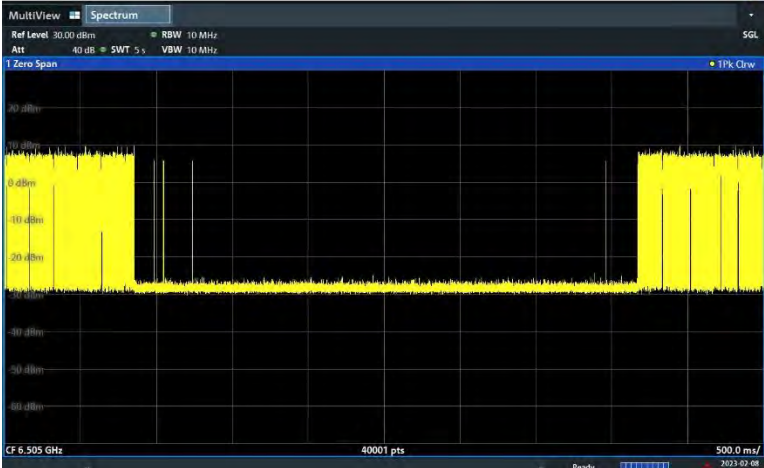


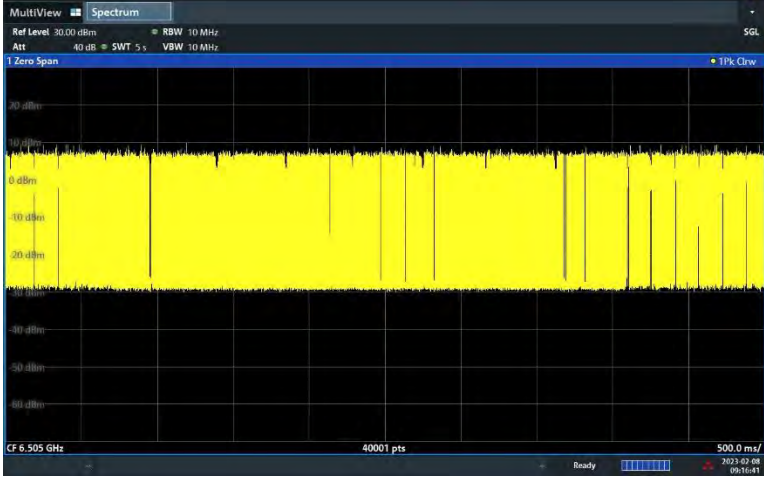
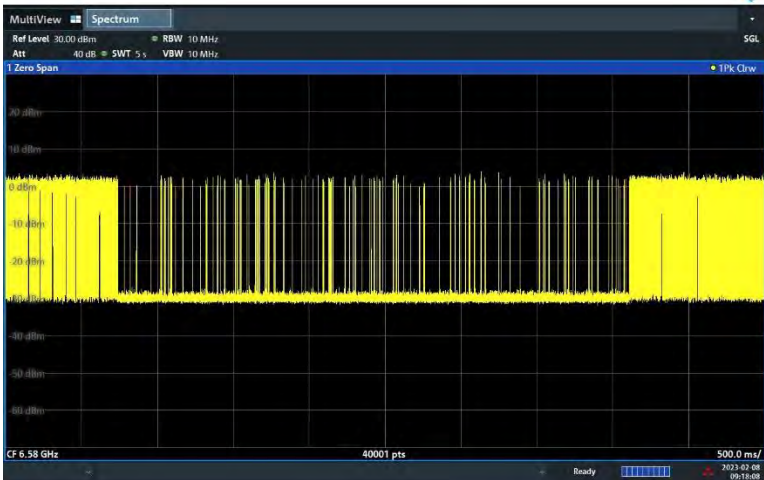
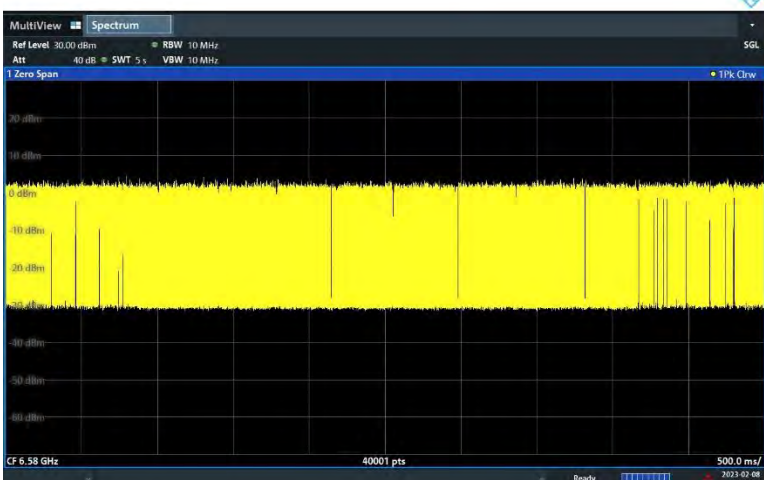
802.11ax HE160	
6110 MHz	
6110 MHz	
6185 MHz	

802.11ax HE160	
6185 MHz	 <p>The screenshot shows a spectrum analyzer interface with a center frequency of 6.185 GHz. The vertical axis represents power in dBm, ranging from -80 to 30. The horizontal axis represents frequency. The signal is a dense, continuous yellow band across the entire span, indicating a wideband signal.</p>
6260 MHz	 <p>The screenshot shows a spectrum analyzer interface with a center frequency of 6.26 GHz. The vertical axis represents power in dBm, ranging from -80 to 30. The horizontal axis represents frequency. The signal consists of two distinct yellow blocks, one on the left and one on the right, with a clear gap between them, indicating a multi-carrier or multi-channel signal.</p>
6260 MHz	 <p>The screenshot shows a spectrum analyzer interface with a center frequency of 6.26 GHz. The vertical axis represents power in dBm, ranging from -80 to 30. The horizontal axis represents frequency. The signal is a dense, continuous yellow band across the entire span, indicating a wideband signal.</p>

UNII 6:



802.11ax HE160	
6430 MHz	
6430 MHz	
6505 MHz	

802.11ax HE160	
6505 MHz	 <p>The screenshot shows a spectrum analyzer interface with a yellow trace. The vertical axis is labeled from -80 dBm to 30 dBm. The horizontal axis is labeled 'CF 6.505 GHz' and '40001 pts'. The signal is dense and spans the entire frequency range shown.</p>
6580 MHz	 <p>The screenshot shows a spectrum analyzer interface with a yellow trace. The vertical axis is labeled from -80 dBm to 30 dBm. The horizontal axis is labeled 'CF 6.58 GHz' and '40001 pts'. The signal consists of several distinct, narrow peaks.</p>
6580 MHz	 <p>The screenshot shows a spectrum analyzer interface with a yellow trace. The vertical axis is labeled from -80 dBm to 30 dBm. The horizontal axis is labeled 'CF 6.58 GHz' and '40001 pts'. The signal is dense and spans the entire frequency range shown.</p>

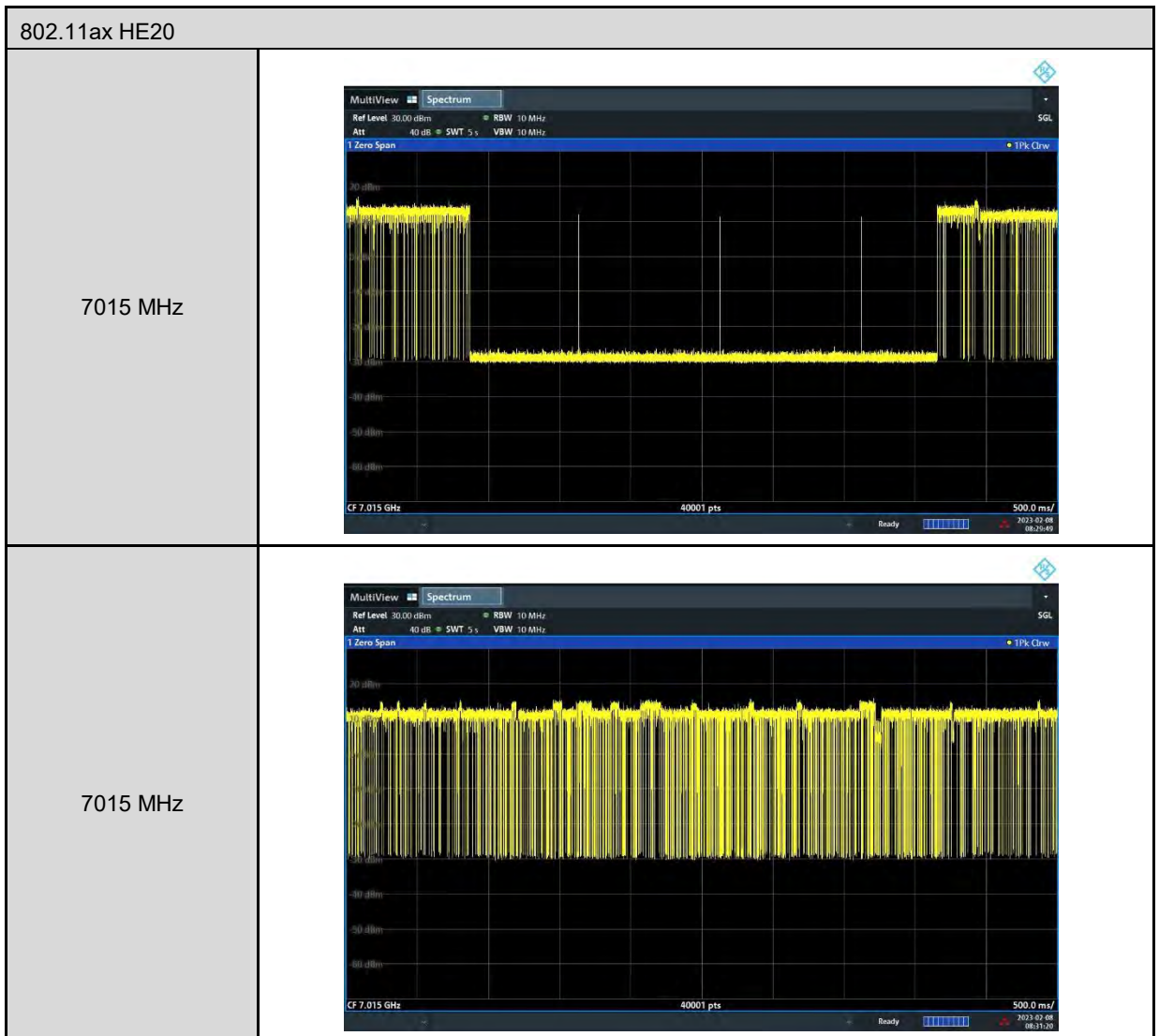
UNII 7:



802.11ax HE160	
6590 MHz	
6590 MHz	
6665 MHz	

802.11ax HE160	
6665 MHz	
6740 MHz	
6740 MHz	

UNII 8:



802.11ax HE160	
6910 MHz	
6910 MHz	
6985 MHz	

802.11ax HE160	
6985 MHz	
7060 MHz	
7060 MHz	

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