

## A.8 CONTENTION BASED PROTOCOL

Test Date	2022/07/05~06	Temp./Hum.	23~24°C/55~56%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Kuper Hsu

### A.8.1 Contention-based Protocol

● Contention-based Protocol Threshold Incumbent Signal & Mini. Detection level

Mode	U-NII Band	Channel Number	EUT Frequency (MHz)	AWGN Frequency (MHz)	AWGN Power (dBm)	Min. Antenna Gain	Path Loss (dB)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status	
802.11ax-HE20	5	37	6135	6135	-33.00	1.90	-29.00	-63.90	-62	OFF	
			6135	6135	-41.50	1.90	-29.00	-72.40	-62	Minimum	
	6	101	6455	6455	-30.50	1.90	-31.50	-63.90	-62	OFF	
			6455	6455	-46.00	1.90	-31.50	-79.40	-62	Minimum	
	7	149	6695	6695	-34.50	1.90	-27.50	-63.90	-62	OFF	
			6695	6695	-43.50	1.90	-27.50	-72.90	-62	Minimum	
	8	213	7015	7015	-32.50	1.90	-29.50	-63.90	-62	OFF	
			7015	7015	-37.00	1.90	-29.50	-68.40	-62	Minimum	
	802.11ax-HE160	5	47	6185	6110	-34.00	1.90	-28.00	-63.90	-62	OFF
					6110	-50.00	1.90	-28.00	-79.90	-62	Minimum
6185					-33.50	1.90	-28.50	-63.90	-62	OFF	
6185					-39.00	1.90	-28.50	-69.40	-62	Minimum	
6185					-46.50	1.90	-28.50	-76.90	-62	ON	
6260					-34.50	1.90	-27.50	-63.90	-62	OFF	
6260					-42.00	1.90	-27.50	-71.40	-62	Minimum	
6-7		111	6505	6430	-32.50	1.90	-29.50	-63.90	-62	OFF	
				6430	-47.00	1.90	-29.50	-78.40	-62	Minimum	
				6430	-50.50	1.90	-29.50	-81.90	-62	ON	
7	143	6665	6505	-35.00	1.90	-27.00	-63.90	-62	OFF		
			6505	-42.00	1.90	-27.00	-70.90	-62	Minimum		
			6505	-44.50	1.90	-27.00	-73.40	-62	ON		
			6580	-34.00	1.90	-28.00	-63.90	-62	OFF		
			6580	-40.50	1.90	-28.00	-70.40	-62	Minimum		
			6580	-43.00	1.90	-28.00	-72.90	-62	ON		
			6590	-35.00	1.90	-27.00	-63.90	-62	OFF		
			6590	-47.00	1.90	-27.00	-75.90	-62	Minimum		
			6590	-50.00	1.90	-27.00	-78.90	-62	ON		
			6665	-28.00	1.90	-34.00	-63.90	-62	OFF		
			6665	-35.00	1.90	-34.00	-70.90	-62	Minimum		
			6665	-38.00	1.90	-34.00	-73.90	-62	ON		
			6740	-30.00	1.90	-32.00	-63.90	-62	OFF		
6740	-39.50	1.90	-32.00	-73.40	-62	Minimum					
6740	-41.50	1.90	-32.00	-75.40	-62	ON					
8	207	6985	6910	-31.50	1.90	-30.50	-63.90	-62	OFF		
			6910	-46.00	1.90	-30.50	-78.40	-62	Minimum		
			6910	-48.50	1.90	-30.50	-80.90	-62	ON		
			6985	-32.50	1.90	-29.50	-63.90	-62	OFF		
			6985	-37.50	1.90	-29.50	-68.90	-62	Minimum		
			6985	-42.50	1.90	-29.50	-73.90	-62	ON		
			7060	-30.50	1.90	-31.50	-63.90	-62	OFF		
7060	-34.00	1.90	-31.50	-67.40	-62	Minimum					
7060	-36.50	1.90	-31.50	-69.90	-62	ON					

Note: 1. The AWGN level is reported for the following conditions:

- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
  - Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
  - ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.
- Detected level (Adjusted Power) = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB).

Note: 2. The EUT don't support channel puncturing or BW reduction mechanism.

● Summary table

Mode	U-NII Band	Channel	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)	
802.11ax-HE20	5	37	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90	
	6	101	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90	
	7	149	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90	
	8	213	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90	
802.11ax-HE160	5	47	6185	6110	1	1	1	1	1	1	1	1	1	1	100	90	
				6185	1	1	1	1	1	1	1	1	1	1	1	100	90
				6260	1	1	1	1	1	1	1	1	1	1	1	1	100
	6-7	111	6505	6430	1	1	1	1	1	1	1	1	1	1	1	100	90
				6505	1	1	1	1	1	1	1	1	1	1	1	100	90
				6580	1	1	1	1	1	1	1	1	1	1	1	1	100
	7	143	6665	6590	1	1	1	1	1	1	1	1	1	1	1	100	90
				6665	1	1	1	1	1	1	1	1	1	1	1	100	90
				6740	1	1	1	1	1	1	1	1	1	1	1	1	100
	8	207	6985	6910	1	1	1	1	1	1	1	1	1	1	1	100	90
				6985	1	1	1	1	1	1	1	1	1	1	1	100	90
				7060	1	1	1	1	1	1	1	1	1	1	1	1	100

Note: CBP Detection Trials (1= Detection, 0= No Detection)

### A.8.2 Measurement Plots





