

## A.8 CONTENTION BASED PROTOCOL

Test Date	2024/08/17	Temp./Hum.	24°C/58%
Cable Loss	N/A	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### A.8.1 Contention-based Protocol

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

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11be-EHT20	5	6135	6135	-84.85	3.30	-88.150	-62	OFF
			6135	-96.85	3.30	-100.150	-62	Minimum
			6135	-97.85	3.30	-101.150	-62	ON
	6	6455	6455	-83.95	3.30	-87.250	-62	OFF
			6455	-89.45	3.30	-92.750	-62	Minimum
			6455	-91.45	3.30	-94.750	-62	ON
	7	6695	6695	-76.88	3.30	-80.180	-62	OFF
			6695	-87.88	3.30	-91.180	-62	Minimum
			6695	-89.88	3.30	-93.180	-62	ON
	8	7015	7015	-77.89	3.30	-81.190	-62	OFF
			7015	-88.89	3.30	-92.190	-62	Minimum
			7015	-90.89	3.30	-94.190	-62	ON

Note 1: the listed Min. gain of EUT was included path loss.

Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) \*Note1.

Note 3: 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.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.

Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11be-EHT 320	5	6105	6030	-81.03	3.30	-84.330	-62	OFF
			6030	-84.53	3.30	-87.830	-62	Minimum
			6030	-85.53	3.30	-88.830	-62	ON
			6105	-86.13	3.30	-89.430	-62	OFF
			6105	-90.13	3.30	-93.430	-62	Minimum
			6105	-91.13	3.30	-94.430	-62	ON
			6180	-80.66	3.30	-83.960	-62	OFF
			6180	-83.66	3.30	-86.960	-62	Minimum
	5/6/7	6585	6180	-84.66	3.30	-87.960	-62	ON
			6510	-79.24	3.30	-82.540	-62	OFF
			6510	-83.24	3.30	-86.540	-62	Minimum
			6510	-83.74	3.30	-87.040	-62	ON
			6585	-82.00	3.30	-85.300	-62	OFF
			6585	-87.50	3.30	-90.800	-62	Minimum
			6585	-88.50	3.30	-91.800	-62	ON
			6660	-77.79	3.30	-81.090	-62	OFF
	7/8	6745	6660	-80.79	3.30	-84.090	-62	Minimum
			6660	-81.79	3.30	-85.090	-62	ON
			6670	-80.33	3.30	-83.630	-62	OFF
			6670	-82.83	3.30	-86.130	-62	Minimum
			6670	-83.83	3.30	-87.130	-62	ON
			6745	-80.39	3.30	-83.690	-62	OFF
			6745	-84.39	3.30	-87.690	-62	Minimum
			6745	-85.39	3.30	-88.690	-62	ON
	7/8	6905	6820	-78.96	3.30	-82.260	-62	OFF
			6820	-81.46	3.30	-84.760	-62	Minimum
			6820	-82.46	3.30	-85.760	-62	ON
			6830	-81.16	3.30	-84.460	-62	OFF
			6830	-84.66	3.30	-87.960	-62	Minimum
			6830	-85.16	3.30	-88.460	-62	ON
			6905	-79.56	3.30	-82.860	-62	OFF
			6905	-84.06	3.30	-87.360	-62	Minimum
	7/8	6905	6905	-85.06	3.30	-88.360	-62	ON
			6980	-78.97	3.30	-82.270	-62	OFF
			6980	-81.97	3.30	-85.270	-62	Minimum
			6980	-82.47	3.30	-85.770	-62	ON

Note 1: the listed Min. gain of EUT was included path loss.

Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) \*Note1.

Note 3: 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.
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Note 4: The EUT don't support channel puncturing or BW reduction mechanism.

Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.

● Summary table

Mode	U-NII Band	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
802.11be-EHT20	5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90
	6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90
	7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90
	8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90
802.11be-EHT320	5	6105	6030	1	1	1	1	1	1	1	1	1	1	100	90
			6105	1	1	1	1	1	1	1	1	1	1	100	90
			6180	1	1	1	1	1	1	1	1	1	1	100	90
	5/6/7	6585	6510	1	1	1	1	1	1	1	1	1	1	100	90
			6585	1	1	1	1	1	1	1	1	1	1	100	90
			6660	1	1	1	1	1	1	1	1	1	1	100	90
	7/8	6745	6670	1	1	1	1	1	1	1	1	1	1	100	90
			6745	1	1	1	1	1	1	1	1	1	1	100	90
			6820	1	1	1	1	1	1	1	1	1	1	100	90
	7/8	6905	6830	1	1	1	1	1	1	1	1	1	1	100	90
			6905	1	1	1	1	1	1	1	1	1	1	100	90
			6980	1	1	1	1	1	1	1	1	1	1	100	90

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

A.8.2 Measurement Plots





