Audix Technology Corp.
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A.8 CONTENTION BASED PROTOCOL

Test Date	2024/10/02 ~ 05	Temp./Hum.	24 ~ 26℃/58 ~ 61%
Cable Loss	N/A	Tested By	Sean Wang
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	-74.04	1.70	-75.74	-62	OFF
			6135	-81.04	1.70	-82.74	-62	Minimum
			6135	-83.04	1.70	-84.74	-62	ON
	6	6455	6455	-74.09	2.40	-76.49	-62	OFF
			6455	-80.09	2.40	-82.49	-62	Minimum
			6455	-82.09	2.40	-84.49	-62	ON
	7	6695	6695	-73.67	1.20	-74.87	-62	OFF
			6695	-79.67	1.20	-80.87	-62	Minimum
			6695	-81.67	1.20	-82.87	-62	ON
	8	7015	7015	-74.59	1.30	-75.89	-62	OFF
			7015	-81.59	1.30	-82.89	-62	Minimum
			7015	-83.59	1.30	-84.89	-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.

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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-EHT320	5	6105	6030	-78.88	1.70	-80.58	-62	OFF
			6030	-80.88	1.70	-82.58	-62	Minimum
			6030	-82.88	1.70	-84.58	-62	ON
			6105	-76.79	1.70	-78.49	-62	OFF
			6105	-81.79	1.70	-83.49	-62	Minimum
			6105	-83.79	1.70	-85.49	-62	ON
			6180	-80.79	1.70	-82.49	-62	OFF
			6180	-83.79	1.70	-85.49	-62	Minimum
			6180	-84.79	1.70	-86.49	-62	ON
	5/6/7	6585	6510	-76.01	2.40	-78.41	-62	OFF
			6510	-84.01	2.40	-86.41	-62	Minimum
			6510	-86.01	2.40	-88.41	-62	ON
			6585	-70.23	2.40	-72.63	-62	OFF
			6585	-76.23	2.40	-78.63	-62	Minimum
			6585	-78.23	2.40	-80.63	-62	ON
			6660	-76.76	2.40	-79.16	-62	OFF
			6660	-79.76	2.40	-82.16	-62	Minimum
			6660	-81.76	2.40	-84.16	-62	ON
	7/8	6745	6670	-77.35	1.20	-78.55	-62	OFF
			6670	-78.35	1.20	-79.55	-62	Minimum
			6670	-79.35	1.20	-80.55	-62	ON
			6745	-74.99	1.20	-76.19	-62	OFF
			6745	-77.99	1.20	-79.19	-62	Minimum
			6745	-79.99	1.20	-81.19	-62	ON
			6820	-74.44	1.20	-75.64	-62	OFF
			6820	-77.44	1.20	-78.64	-62	Minimum
			6820	-78.44	1.20	-79.64	-62	ON
	7/8	6905	6830	-74.26	1.30	-75.56	-62	OFF
			6830	-79.26	1.30	-80.56	-62	Minimum
			6830	-81.26	1.30	-82.56	-62	ON
			6905	-72.41	1.30	-73.71	-62	OFF
			6905	-76.41	1.30	-77.71	-62	Minimum
			6905	-78.41	1.30	-79.71	-62	ON
			6980	-74.05	1.30	-75.35	-62	OFF
			6980	-77.05	1.30	-78.35	-62	Minimum
			6980	-79.05	1.30	-80.35	-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.

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- 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)

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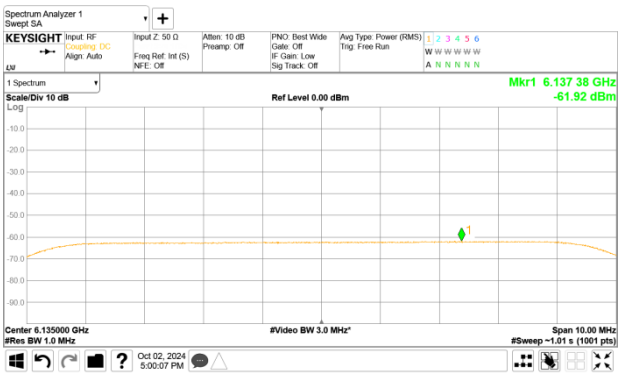
A.8.2 Measurement Plots

Incumbent Signal (AWGN) Bandwidth	Incumbent Signal (AWGN) Threshold Level
	

802.11be-EHT20	
Incumbent Frequency	
6135MHz	6695MHz
	
6455MHz	7015MHz
	

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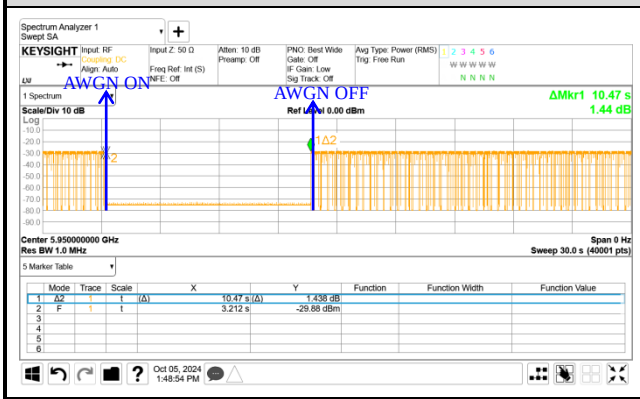
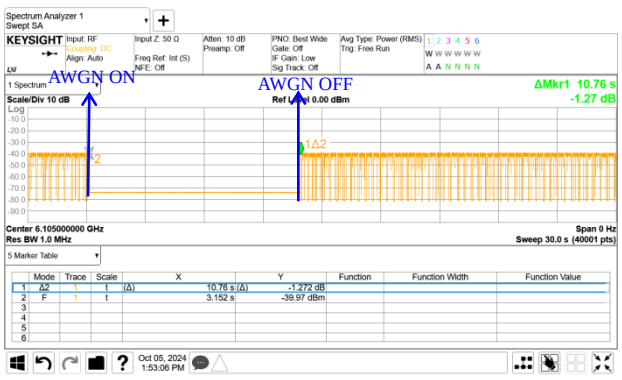
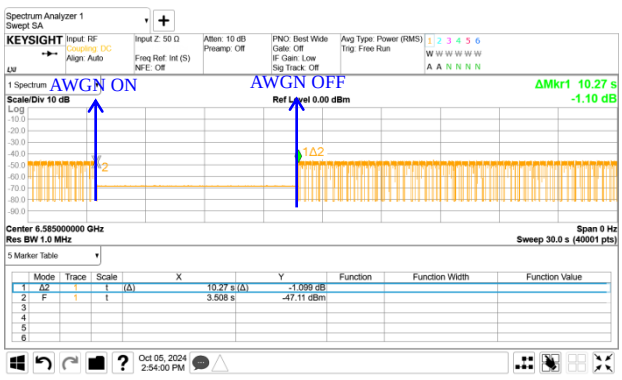
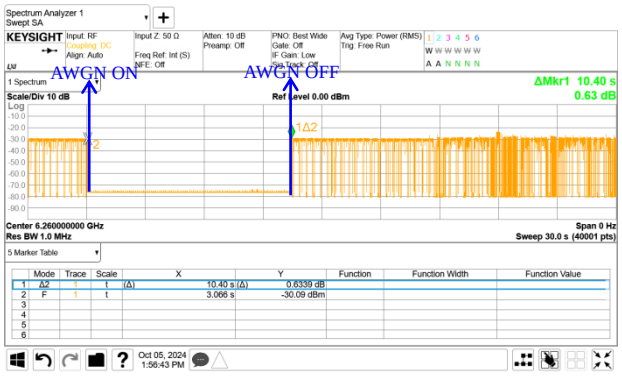
802.11be-EHT320	
Centre Frequency: 6105MHz	Centre Frequency: 6585MHz
Incumbent Frequency	Incumbent Frequency
5950MHz	6430MHz
	
6105MHz	6585MHz
	
6260MHz	6740MHz
	

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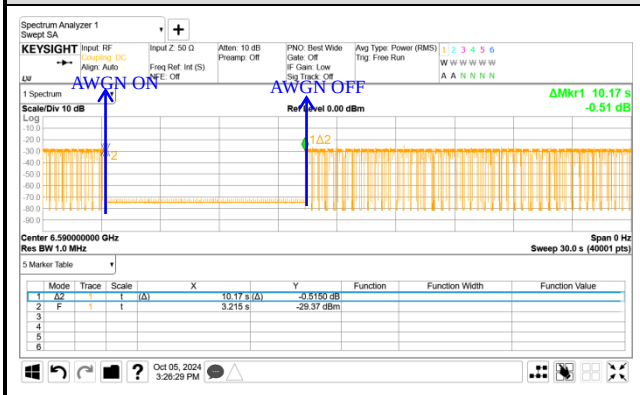
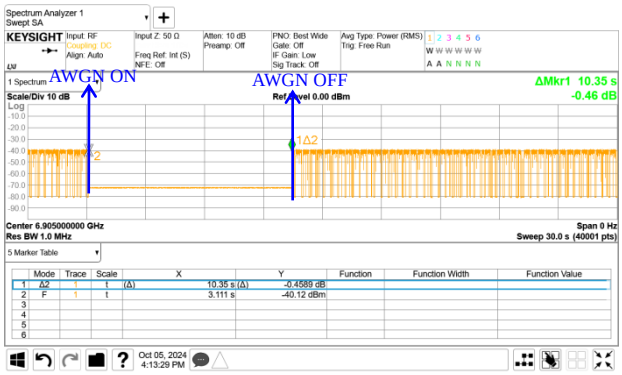
802.11be-EHT320	
Centre Frequency: 6745MHz	Centre Frequency: 6905MHz
Incumbent Frequency	Incumbent Frequency
6590MHz	6750MHz
	
6745MHz	6905MHz
	
6900MHz	7060MHz