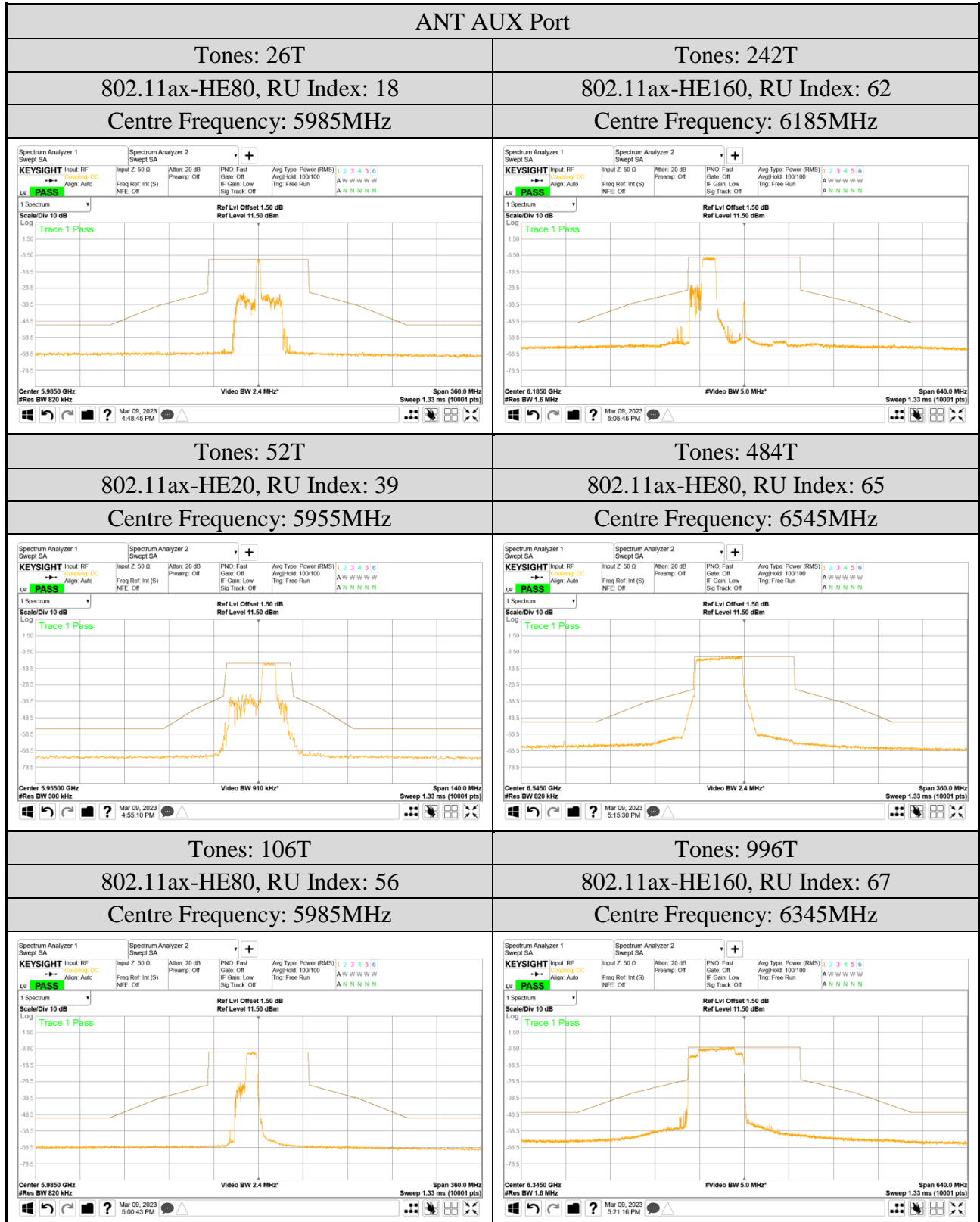
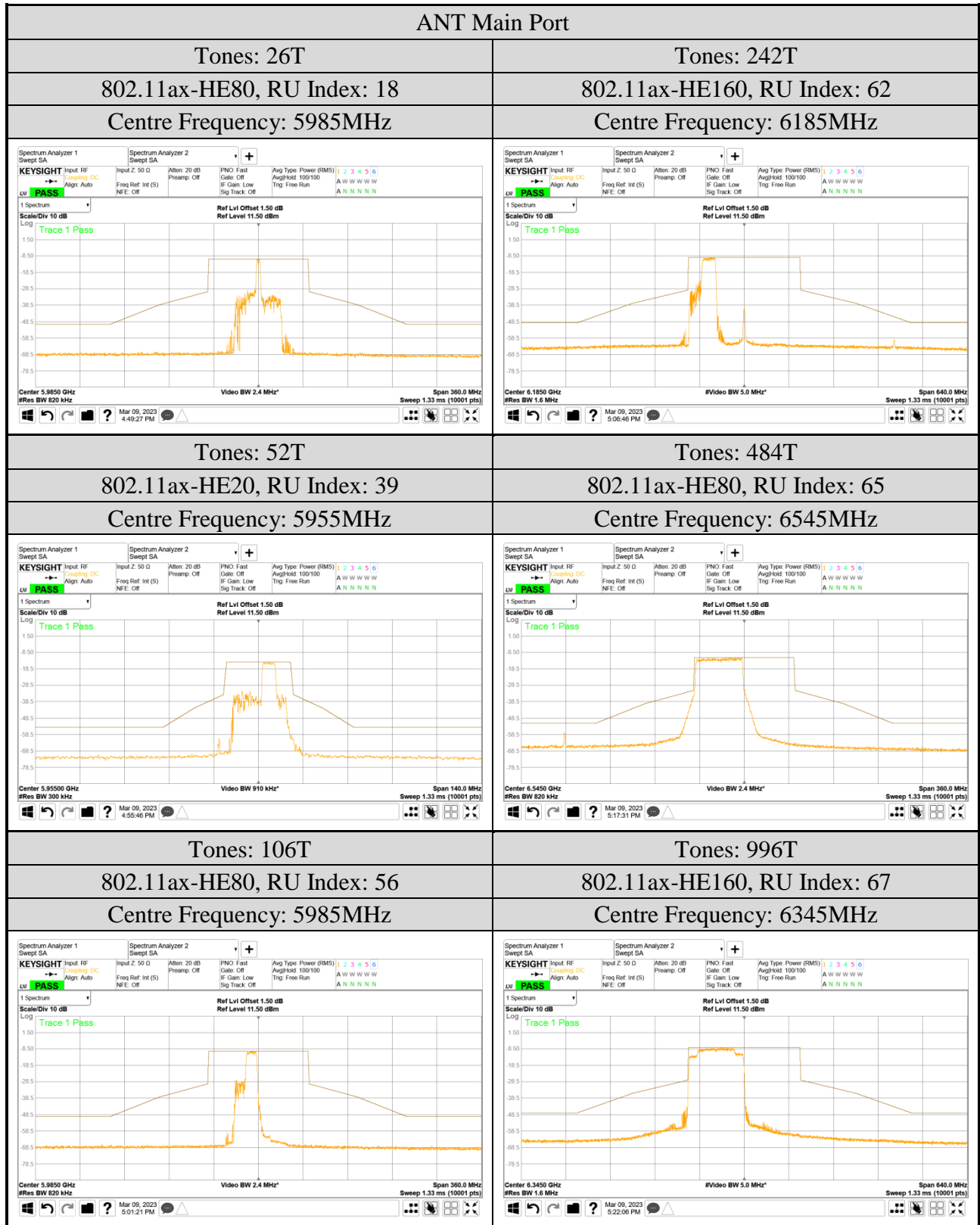


● OFDMA Modulation







## A.8 CONTENTION BASED PROTOCOL

Test Date	2023/04/07	Temp./Hum.	22°C/62%
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
802.11ax-HE20	5	6135	6135	-70.50	1.60	-72.10	-62	OFF
			6135	-79.50	1.60	-81.10	-62	Minimum
			6135	-81.50	1.60	-83.10	-62	ON
	6	6455	6455	-71.50	1.60	-73.10	-62	OFF
			6455	-79.50	1.60	-81.10	-62	Minimum
			6455	-81.50	1.60	-83.10	-62	ON
	7	6695	6695	-70.50	1.60	-72.10	-62	OFF
			6695	-78.00	1.60	-79.60	-62	Minimum
			6695	-80.50	1.60	-82.10	-62	ON
	8	7015	7015	-72.50	1.60	-74.10	-62	OFF
			7015	-79.00	1.60	-80.60	-62	Minimum
			7015	-81.50	1.60	-83.10	-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
802.11ax-HE160	5	6185	6110	-77.50	1.60	-79.10	-62	OFF
			6110	-80.50	1.60	-82.10	-62	Minimum
			6110	-82.50	1.60	-84.10	-62	ON
			6185	-71.50	1.60	-73.10	-62	OFF
			6185	-76.00	1.60	-77.60	-62	Minimum
			6185	-78.50	1.60	-80.10	-62	ON
			6260	-77.50	1.60	-79.10	-62	OFF
			6260	-80.00	1.60	-81.60	-62	Minimum
	6-7	6505	6430	-78.80	1.60	-80.40	-62	OFF
			6430	-80.80	1.60	-82.40	-62	Minimum
			6430	-82.30	1.60	-83.90	-62	ON
			6505	-71.00	1.60	-72.60	-62	OFF
			6505	-76.50	1.60	-78.10	-62	Minimum
			6505	-79.00	1.60	-80.60	-62	ON
			6580	-78.00	1.60	-79.60	-62	OFF
			6580	-80.00	1.60	-81.60	-62	Minimum
	7	6665	6590	-78.00	1.60	-79.60	-62	OFF
			6590	-82.00	1.60	-83.60	-62	Minimum
			6590	-83.50	1.60	-85.10	-62	ON
			6665	-72.50	1.60	-74.10	-62	OFF
			6665	-76.50	1.60	-78.10	-62	Minimum
			6665	-79.00	1.60	-80.60	-62	ON
			6740	-77.50	1.60	-79.10	-62	OFF
			6740	-80.50	1.60	-82.10	-62	Minimum
	8	6985	6740	-82.50	1.60	-84.10	-62	ON
			6910	-75.00	1.60	-76.60	-62	OFF
			6910	-82.00	1.60	-83.60	-62	Minimum
			6910	-84.00	1.60	-85.60	-62	ON
			6985	-71.50	1.60	-73.10	-62	OFF
			6985	-77.00	1.60	-78.60	-62	Minimum
			6985	-79.50	1.60	-81.10	-62	ON
			7060	-78.00	1.60	-79.60	-62	OFF
	8	6985	7060	-82.00	1.60	-83.60	-62	Minimum
			7060	-84.00	1.60	-85.60	-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.

● 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 (%)
802.11ax-HE20	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
802.11ax-HE160	5	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	100	90
			6260	1	1	1	1	1	1	1	1	1	1	100	90
	6-7	6505	6430	1	1	1	1	1	1	1	1	1	1	100	90
			6505	1	1	1	1	1	1	1	1	1	1	100	90
			6580	1	1	1	1	1	1	1	1	1	1	100	90
	7	6665	6590	1	1	1	1	1	1	1	1	1	1	100	90
			6665	1	1	1	1	1	1	1	1	1	1	100	90
			6740	1	1	1	1	1	1	1	1	1	1	100	90
	8	6985	6910	1	1	1	1	1	1	1	1	1	1	100	90
			6985	1	1	1	1	1	1	1	1	1	1	100	90
			7060	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

