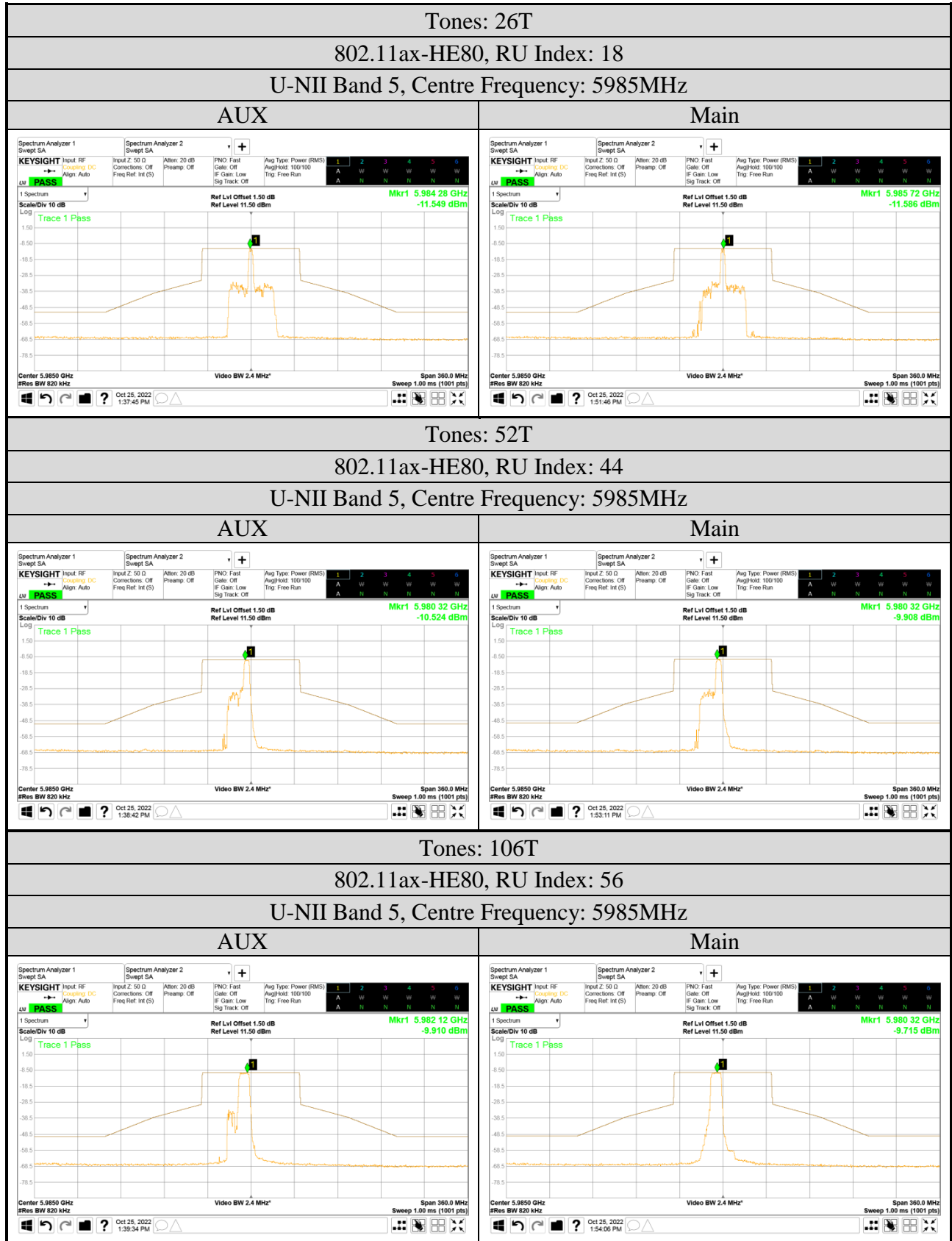
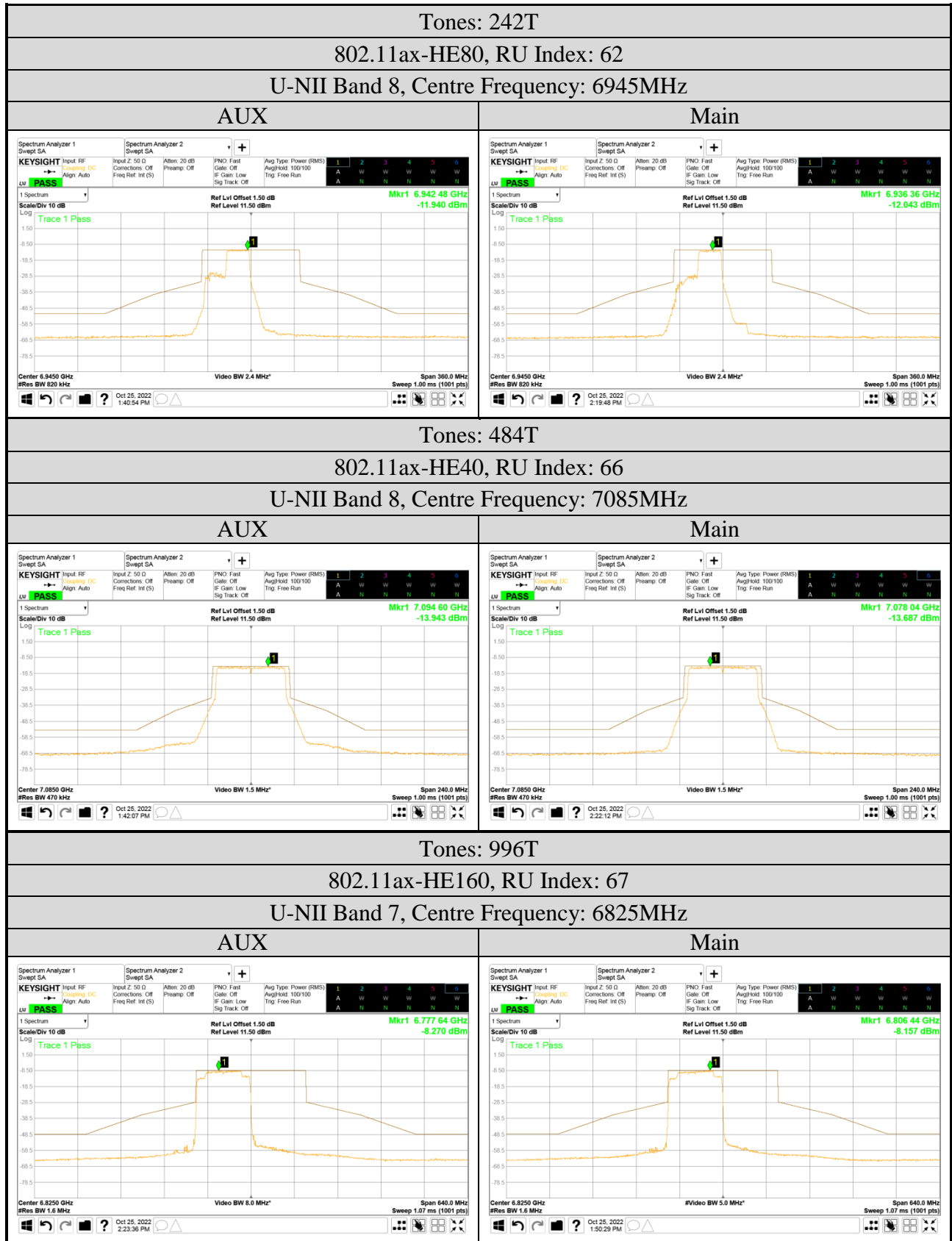


● OFDMA Modulation





A.8 CONTENTION BASED PROTOCOL

Test Date	2022/10/25 ~ 27	Temp./Hum.	23°C/58-60%
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)	AWGN Power (dBm)	Min. Antenna Gain (dBi)	Path Loss (dB)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax-HE20	5	6135	6135	-36	-0.4	-38	-73.6	-62	OFF
			6135	-41	-0.4	-38	-78.6	-62	Minimum
			6135	-45	-0.4	-38	-82.6	-62	ON
	6	6455	6455	-37	-0.4	-36	-72.6	-62	OFF
			6455	-44	-0.4	-36	-79.6	-62	Minimum
			6455	-46	-0.4	-36	-81.6	-62	ON
	7	6695	6695	-36	-0.4	-34.5	-70.1	-62	OFF
			6695	-44	-0.4	-34.5	-78.1	-62	Minimum
			6695	-46	-0.4	-34.5	-80.1	-62	ON
	8	7015	7015	-36	-0.4	-34.5	-70.1	-62	OFF
			7015	-45	-0.4	-34.5	-79.1	-62	Minimum
			7015	-47	-0.4	-34.5	-81.1	-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.

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	AWGN Power (dBm)	Min. Antenna Gain (dBi)	Path Loss (dB)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status	
802.11ax-HE160	5	6185	6110	-37	-0.4	-37	-73.6	-62	OFF	
			6110	-43	-0.4	-37	-79.6	-62	Minimum	
			6110	-45	-0.4	-37	-81.6	-62	ON	
			6185	-35	-0.4	-36.3	-70.9	-62	OFF	
			6185	-39	-0.4	-36.3	-74.9	-62	Minimum	
			6185	-42	-0.4	-36.3	-77.9	-62	ON	
			6260	-34	-0.4	-36.3	-69.9	-62	OFF	
			6260	-37	-0.4	-36.3	-72.9	-62	Minimum	
	6-7	6505	6430	-42	-0.4	-40	-81.6	-62	OFF	
			6430	-45	-0.4	-40	-84.6	-62	Minimum	
			6430	-47	-0.4	-40	-86.6	-62	ON	
			6505	-39	-0.4	-39	-77.6	-62	OFF	
			6505	-41	-0.4	-39	-79.6	-62	Minimum	
			6505	-43	-0.4	-39	-81.6	-62	ON	
			6580	-37	-0.4	-38.5	-75.1	-62	OFF	
			6580	-39	-0.4	-38.5	-77.1	-62	Minimum	
	7	6665	6580	-41	-0.4	-38.5	-79.1	-62	ON	
			6590	-45	-0.4	-39	-83.6	-62	OFF	
			6590	-46	-0.4	-39	-84.6	-62	Minimum	
			6590	-48	-0.4	-39	-86.6	-62	ON	
			6665	-34	-0.4	-40	-73.6	-62	OFF	
			6665	-39	-0.4	-40	-78.6	-62	Minimum	
			6665	-42	-0.4	-40	-81.6	-62	ON	
			6740	-34	-0.4	-40.5	-74.1	-62	OFF	
	8	6985	6740	-37	-0.4	-40.5	-77.1	-62	Minimum	
			6740	-40	-0.4	-40.5	-80.1	-62	ON	
			6910	-43	-0.4	-36.5	-79.1	-62	OFF	
			6910	-46	-0.4	-36.5	-82.1	-62	Minimum	
			6910	-48	-0.4	-36.5	-84.1	-62	ON	
			6985	-32	-0.4	-37	-68.6	-62	OFF	
			6985	-41	-0.4	-37	-77.6	-62	Minimum	
			6985	-44	-0.4	-37	-80.6	-62	ON	
				7060	-36	-0.4	-37	-72.6	-62	OFF
				7060	-38	-0.4	-37	-74.6	-62	Minimum
				7060	-41	-0.4	-37	-77.6	-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.
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- Detected level (Adjusted Power) = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB).

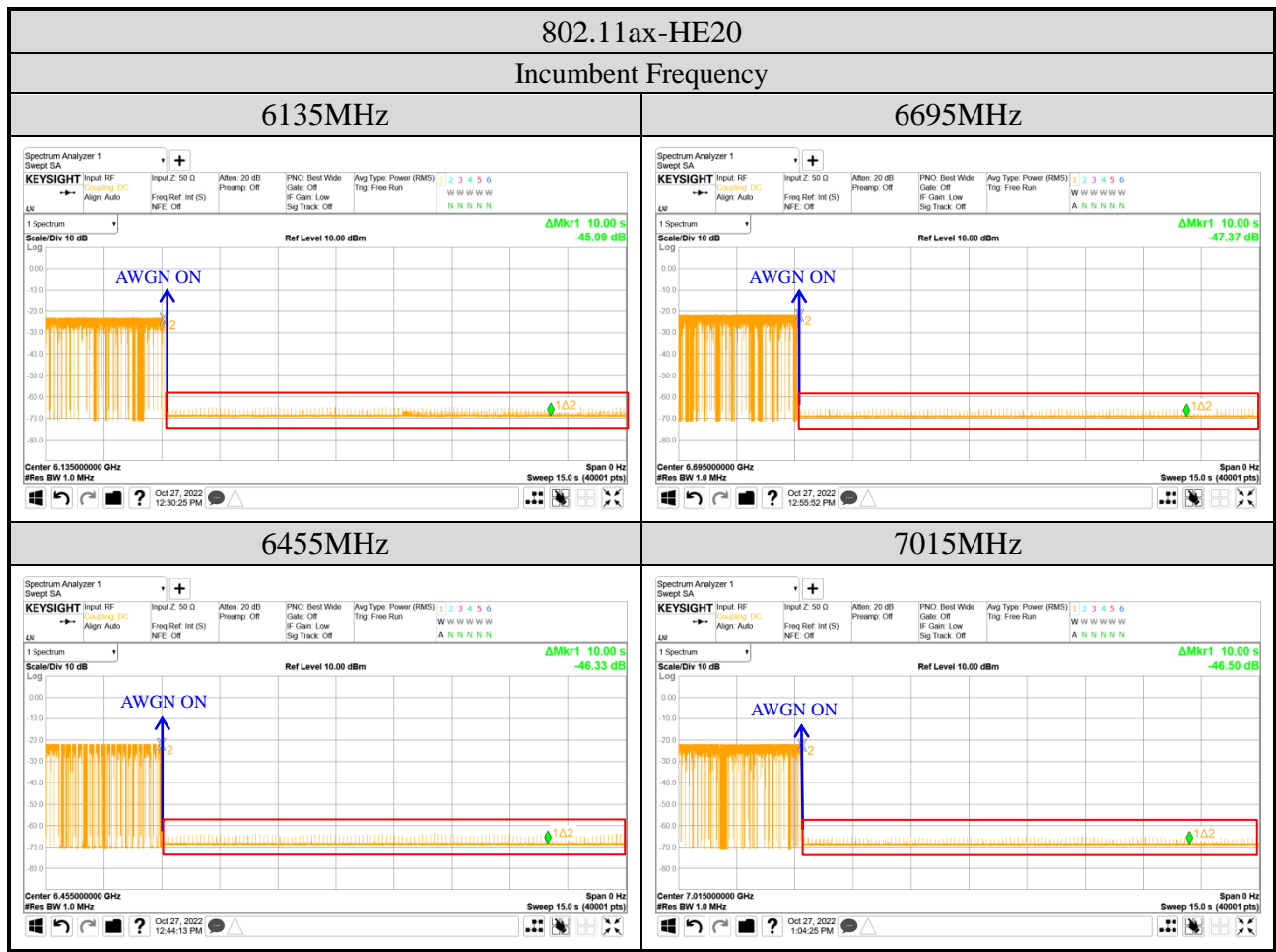
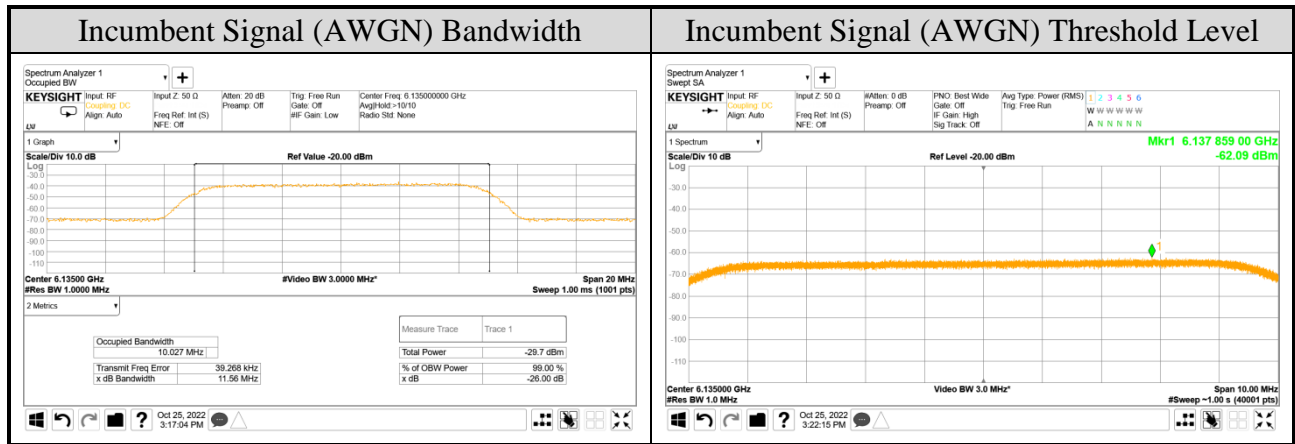
Note 2: The EUT don't support channel puncturing or BW reduction mechanism.

● Summary table

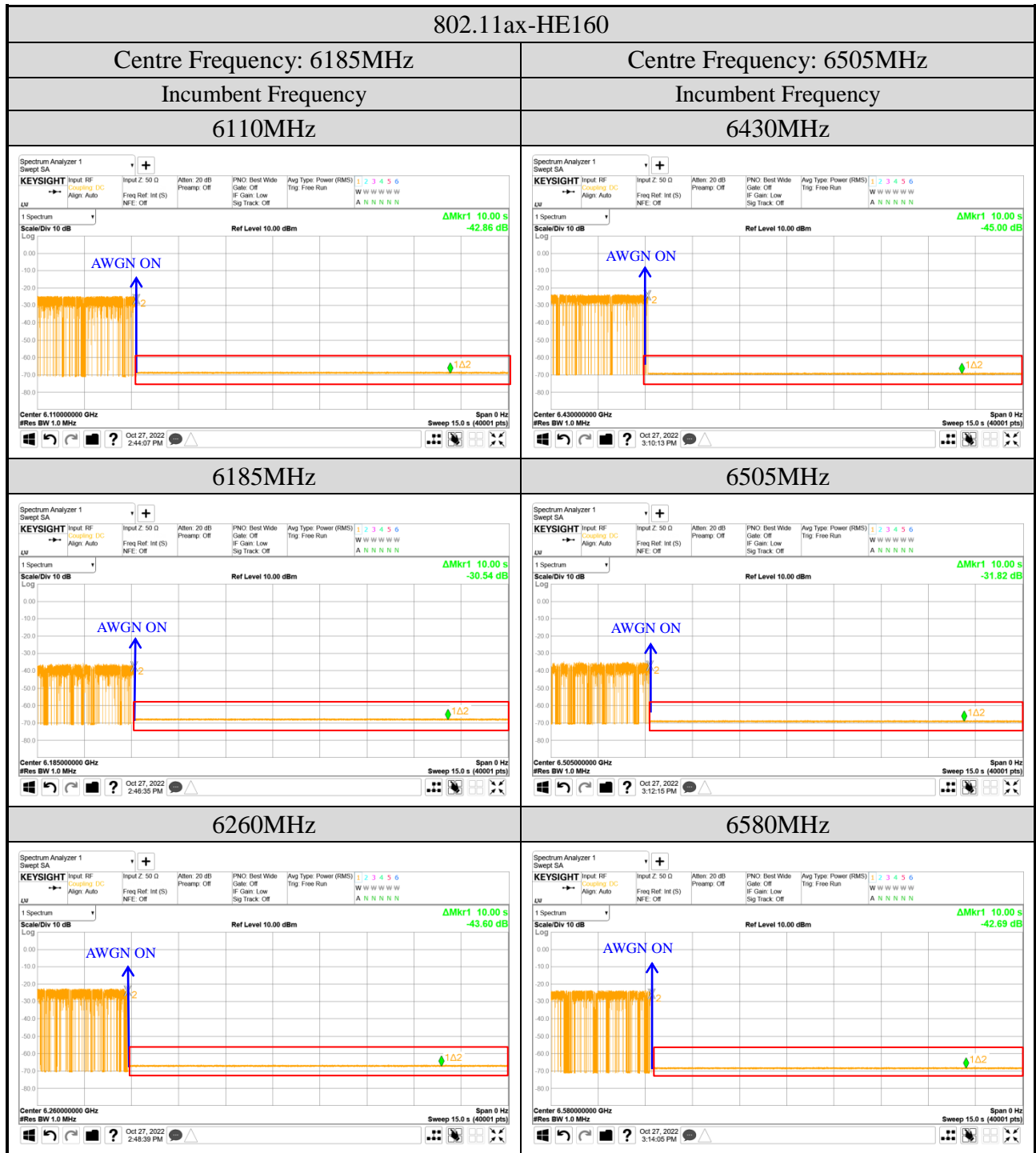
Mode	U-NII Band	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)	
802.11ax-HE20	5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90	
	6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90	
	7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90	
	8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90	
802.11ax-HE160	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	1	100	90
			6260	1	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	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	100	90
	7	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	100	90
	8	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	100	90

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

A.8.2 Measurement Plots



Note: The emissions (red circle) are beacon signals from companion device (AP). The EUT are disconnected with AP so the situation means transmission cease.



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