

## A.8 CONTENTION BASED PROTOCOL

Test Date	2022/10/25 ~ 26	Temp./Hum.	23 ~ 24°C/60 ~ 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)	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	-33.00	1.19	-38.00	-72.19	-62	OFF
			6135	-38.00	1.19	-38.00	-77.19	-62	Minimum
			6135	-43.00	1.19	-38.00	-82.19	-62	ON
	6	6455	6455	-37.00	1.19	-36.00	-74.19	-62	OFF
			6455	-42.00	1.19	-36.00	-79.19	-62	Minimum
			6455	-45.00	1.19	-36.00	-82.19	-62	ON
	7	6695	6695	-38.00	1.19	-34.50	-73.69	-62	OFF
			6695	-45.00	1.19	-34.50	-80.69	-62	Minimum
			6695	-48.00	1.19	-34.50	-83.69	-62	ON
	8	7015	7015	-35.00	1.19	-34.50	-70.69	-62	OFF
			7015	-41.00	1.19	-34.50	-76.69	-62	Minimum
			7015	-44.00	1.19	-34.50	-79.69	-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	-37.00	1.19	-37.00	-75.19	-62	OFF
			6110	-43.00	1.19	-37.00	-81.19	-62	Minimum
			6110	-45.00	1.19	-37.00	-83.19	-62	ON
			6185	-35.00	1.19	-36.30	-72.49	-62	OFF
			6185	-40.00	1.19	-36.30	-77.49	-62	Minimum
			6185	-43.00	1.19	-36.30	-80.49	-62	ON
			6260	-37.00	1.19	-36.30	-74.49	-62	OFF
			6260	-39.00	1.19	-36.30	-76.49	-62	Minimum
	6260	-42.00	1.19	-36.30	-79.49	-62	ON		
	6-7	6505	6430	-41.00	1.19	-40.00	-82.19	-62	OFF
			6430	-44.00	1.19	-40.00	-85.19	-62	Minimum
			6430	-46.00	1.19	-40.00	-87.19	-62	ON
			6505	-37.00	1.19	-39.00	-77.19	-62	OFF
			6505	-40.00	1.19	-39.00	-80.19	-62	Minimum
			6505	-43.00	1.19	-39.00	-83.19	-62	ON
			6580	-38.00	1.19	-38.50	-77.69	-62	OFF
			6580	-41.00	1.19	-38.50	-80.69	-62	Minimum
	7	6665	6580	-43.00	1.19	-38.50	-82.69	-62	ON
			6590	-36.00	1.19	-39.00	-76.19	-62	OFF
			6590	-39.00	1.19	-39.00	-79.19	-62	Minimum
			6590	-42.00	1.19	-39.00	-82.19	-62	ON
			6665	-37.00	1.19	-40.00	-78.19	-62	OFF
			6665	-41.00	1.19	-40.00	-82.19	-62	Minimum
			6665	-44.00	1.19	-40.00	-85.19	-62	ON
			6740	-40.00	1.19	-40.50	-81.69	-62	OFF
	8	6985	6740	-43.00	1.19	-40.50	-84.69	-62	Minimum
			6740	-46.00	1.19	-40.50	-87.69	-62	ON
			6910	-44.00	1.19	-36.50	-81.69	-62	OFF
			6910	-47.00	1.19	-36.50	-84.69	-62	Minimum
			6910	-49.00	1.19	-36.50	-86.69	-62	ON
			6985	-35.00	1.19	-37.00	-73.19	-62	OFF
			6985	-41.00	1.19	-37.00	-79.19	-62	Minimum
6985			-43.00	1.19	-37.00	-81.19	-62	ON	
			7060	-36.00	1.19	-37.00	-74.19	-62	OFF
			7060	-40.00	1.19	-37.00	-78.19	-62	Minimum
			7060	-42.00	1.19	-37.00	-80.19	-62	ON

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

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  - 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).

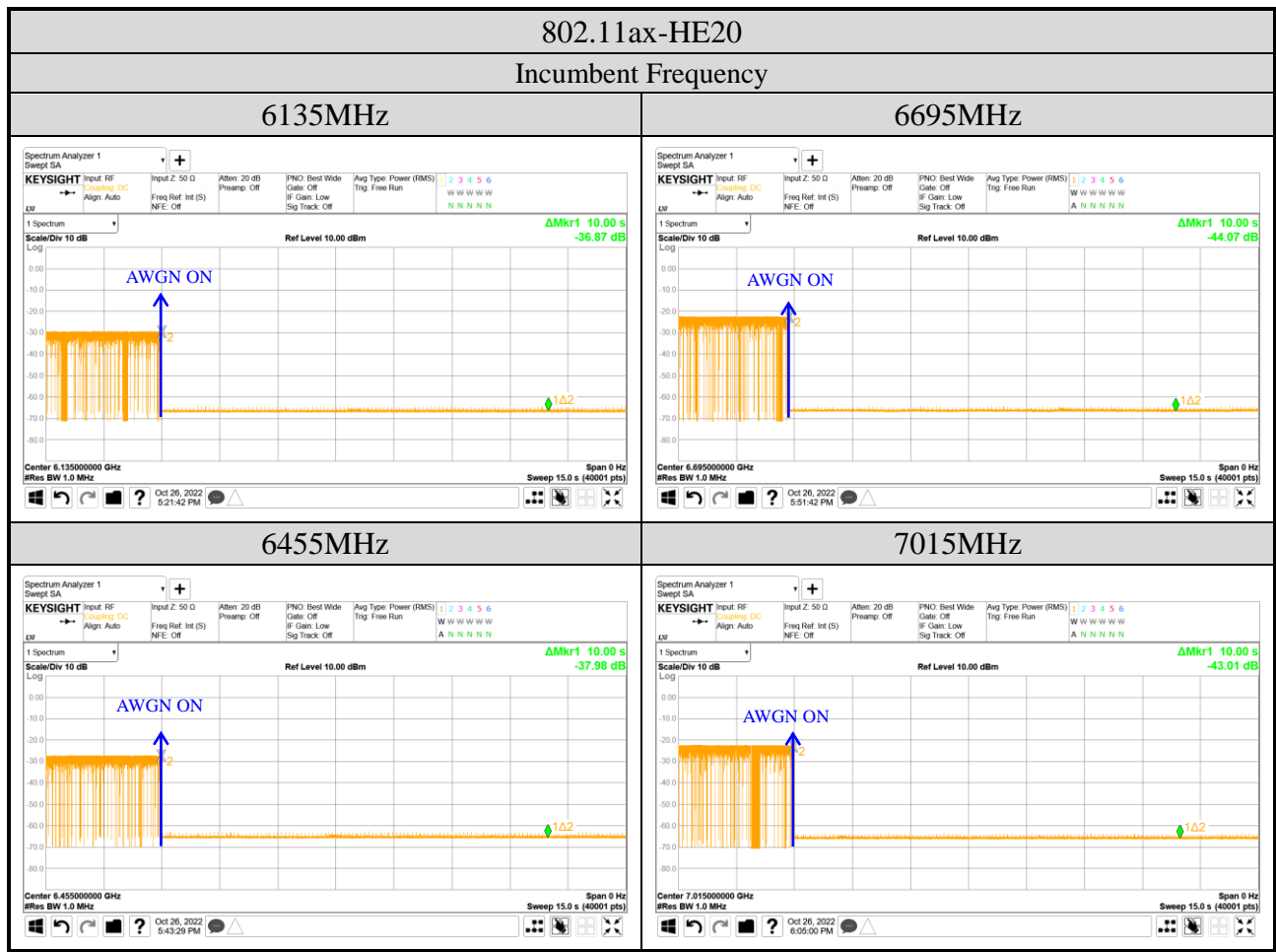
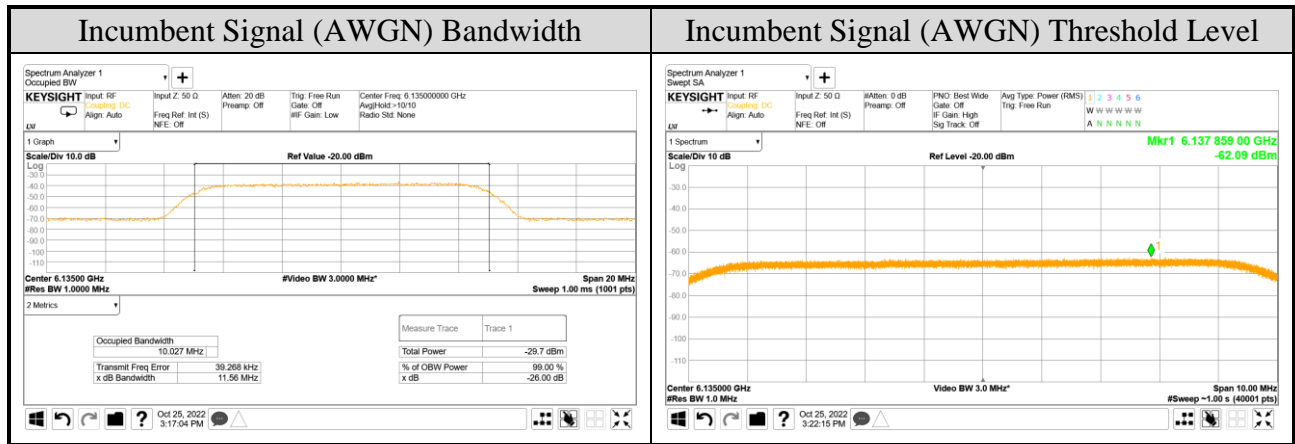
Note 2: The EUT don't support channel puncturing or BW reduction mechanism.

● Summary table

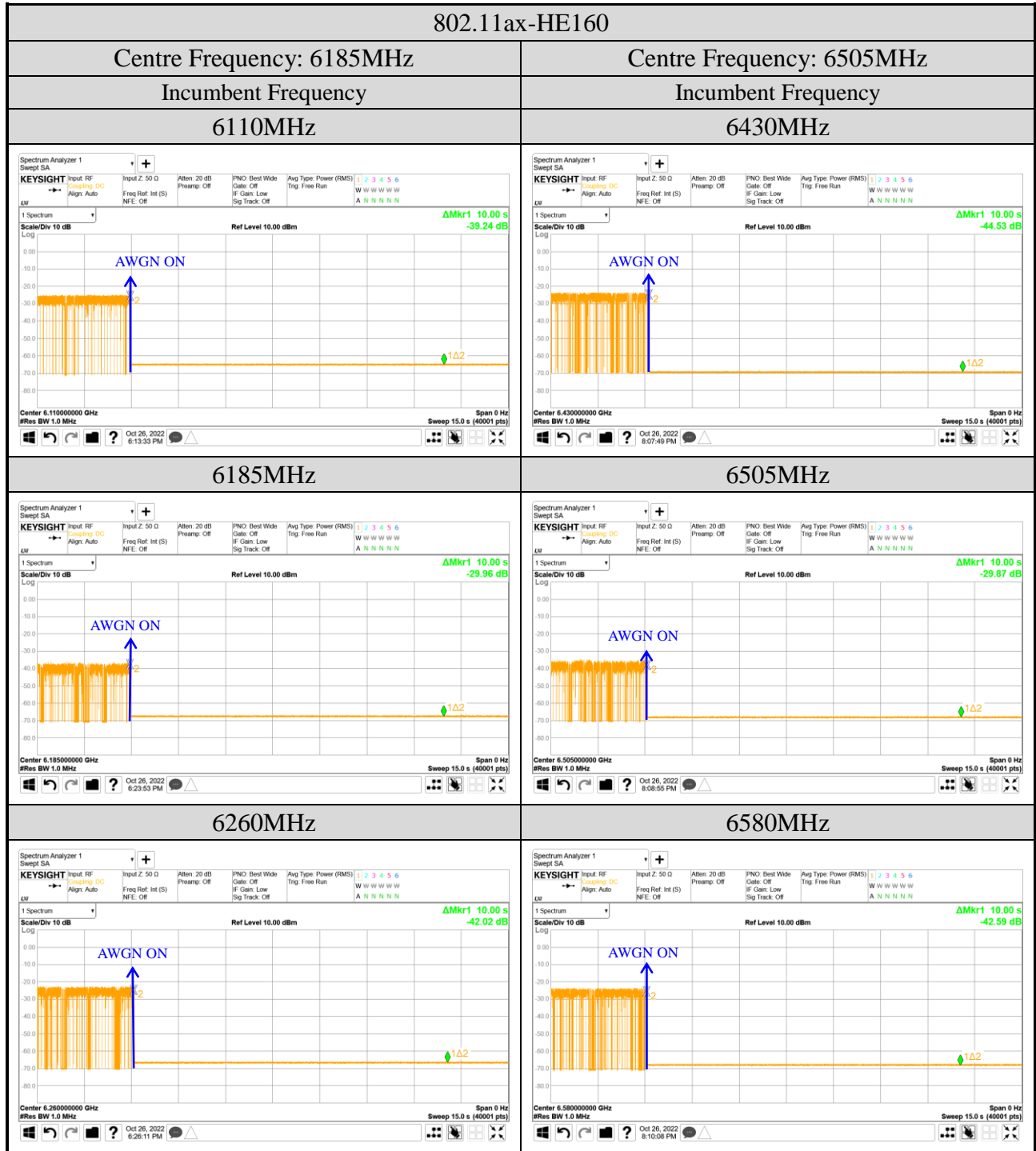
Mode	U-NII Band	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
802.11ax-HE20	5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90
	6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90
	7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90
	8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax-HE160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

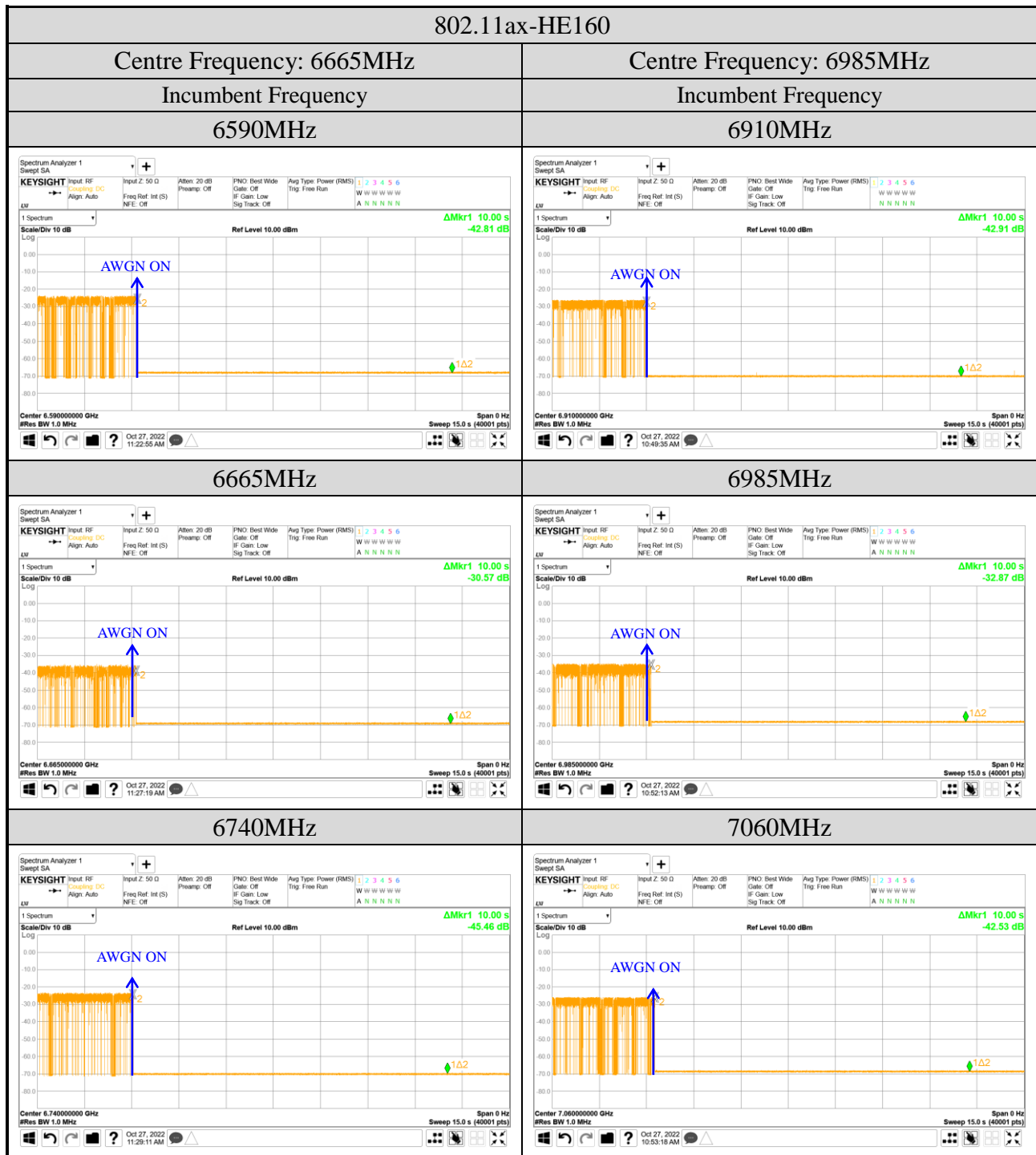
A.8.2 Measurement Plots



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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