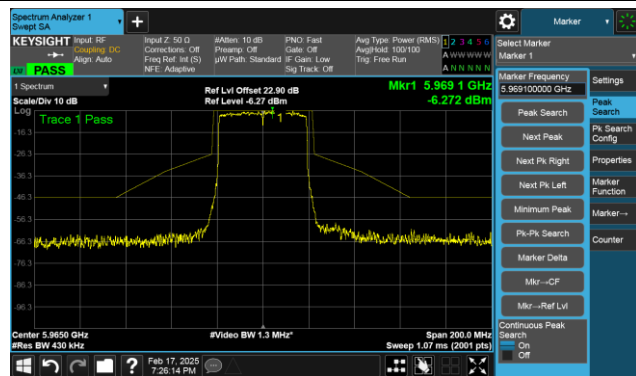
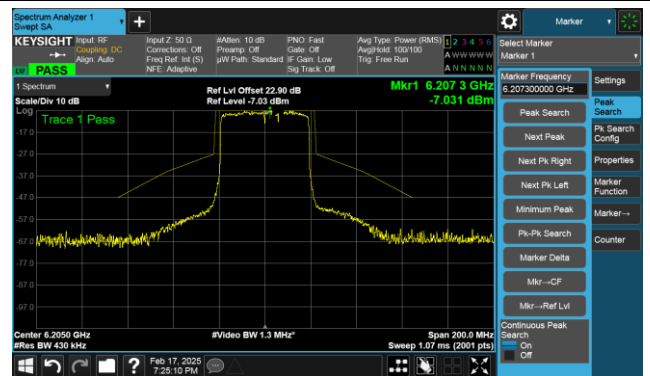


802.11ax-HE40 The Mask Data- Ant 1

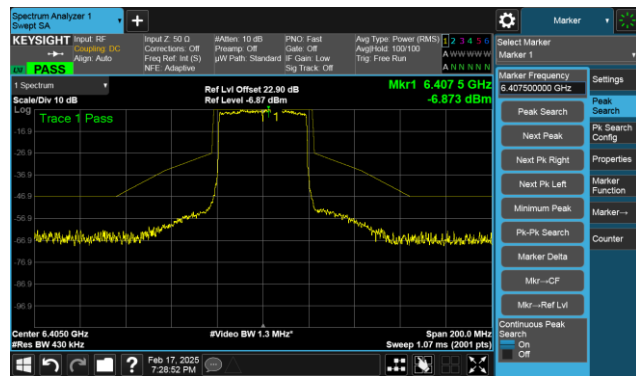
Channel 3 (5965MHz)



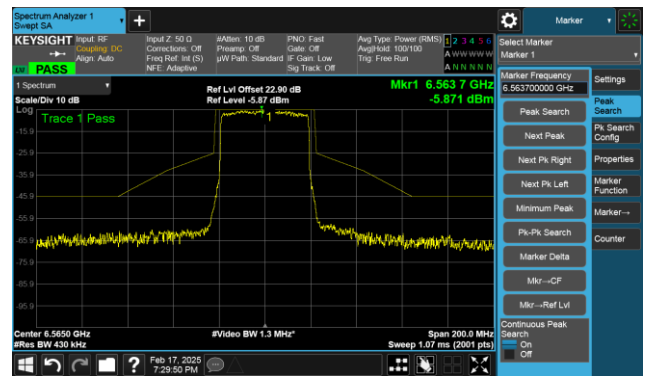
Channel 51 (6205MHz)



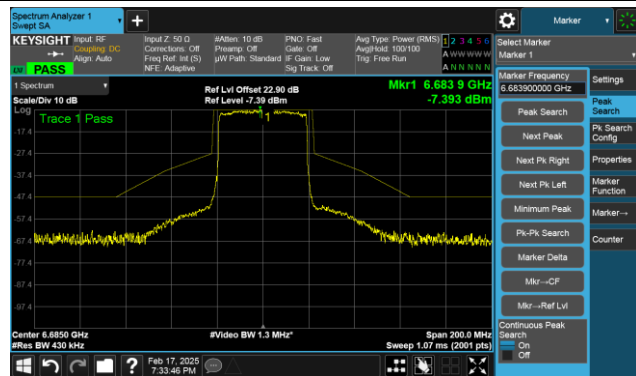
Channel 91 (6405MHz)



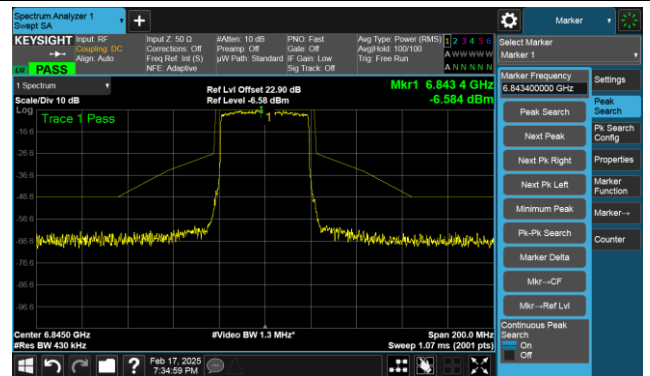
Channel 123 (6565MHz)



Channel 147 (6685MHz)

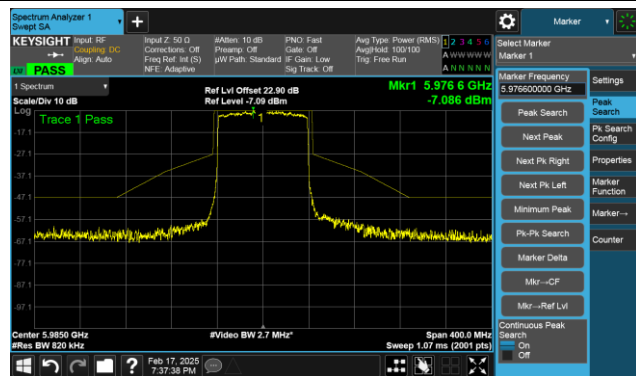


Channel 179 (6845MHz)

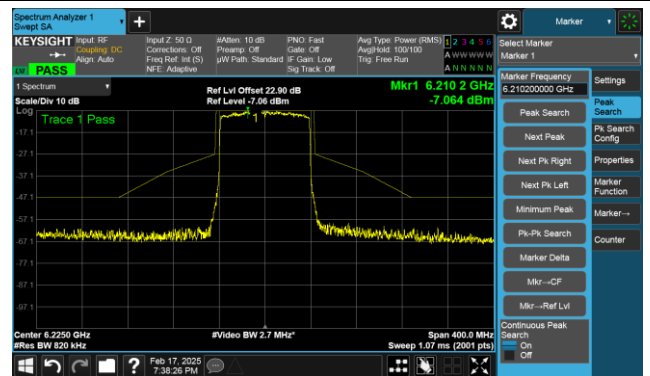


802.11ax-HE80 The Mask Data- Ant 1

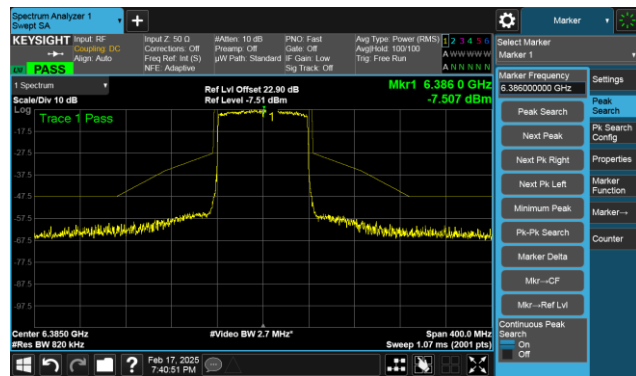
Channel 7 (5985MHz)



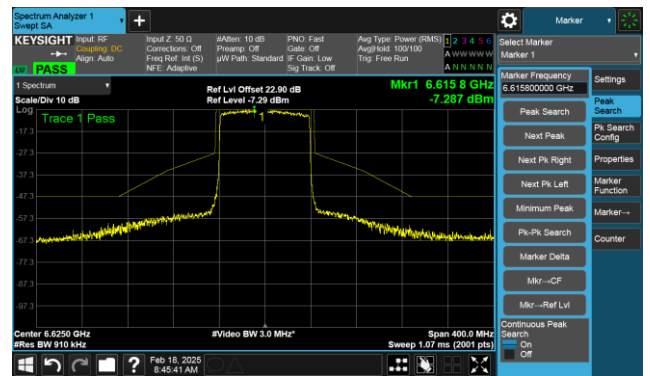
Channel 55 (6225MHz)



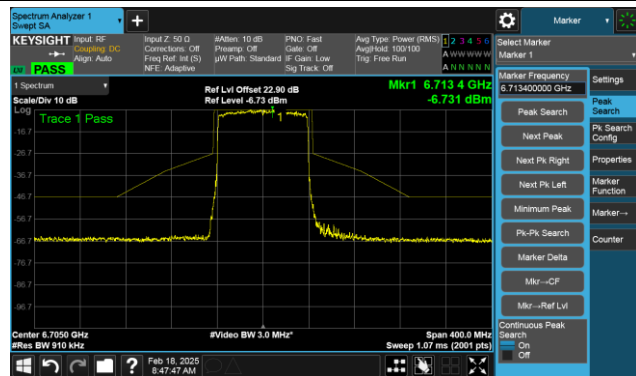
Channel 87 (6385MHz)



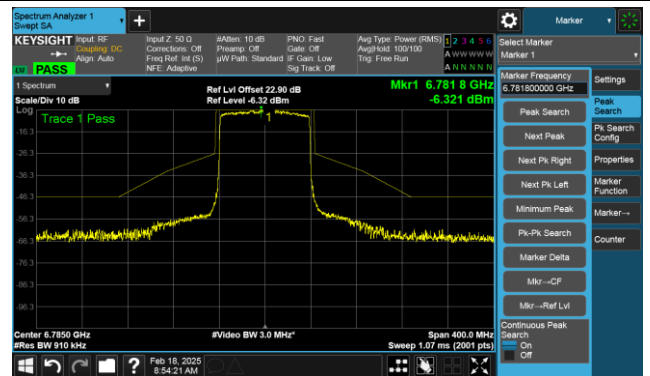
Channel 135 (6625MHz)



Channel 151 (6705MHz)

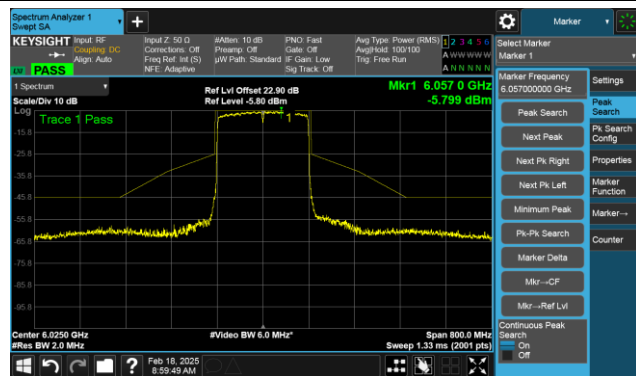


Channel 167 (6785MHz)

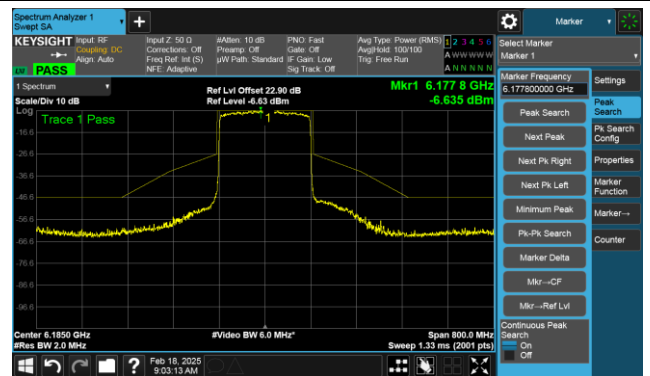


802.11ax-HE160 The Mask Data- Ant 1

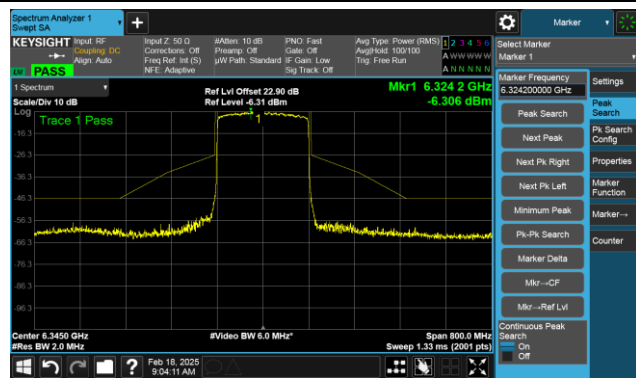
Channel 15 (6025MHz)



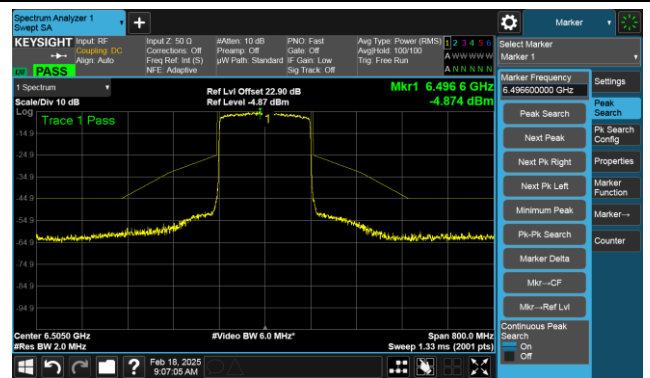
Channel 47 (6185MHz)



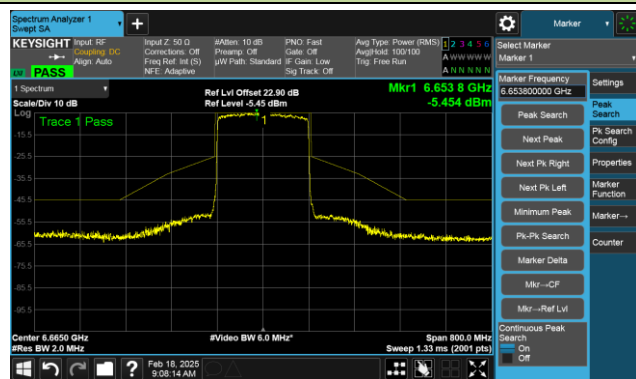
Channel 79 (6345MHz)



Channel 111 (6505MHz)



Channel 143 (6665MHz)



A.6 Frequency Stability Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2025-02-20		
Test Mode	5955MHz (Carrier Mode)		

Voltage (%)	Power (VDC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100	3.80	- 30	4.14	3.98	4.48	4.62
		- 20	4.60	4.37	4.45	4.19
		- 10	3.65	3.29	3.23	2.48
		0	1.04	0.14	0.17	-0.70
		+ 10	-2.20	-3.40	-3.88	-4.72
		+ 20	-7.19	-8.24	-8.79	-9.87
		+ 30	-10.52	-10.83	-11.83	-11.61
		+ 40	-11.63	-12.90	-13.64	-13.64
		+ 50	-14.09	-14.08	-14.04	-13.84
115	4.18	+ 20	-9.89	-9.43	-9.56	-9.33
End Point ^{Note 2}	3.50	+ 20	-8.65	-9.56	-9.98	-9.33

Note 1: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

Note 2: The operating voltage is provided by the manufacturer.

A.7 Contention Based Protocol Test Result

Client operating under the control of an indoor access point

Test Site	SIP-TR1	Test Engineer	Alan Yu
Test Date	2025-02-19		

Test Channel	Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	AWGN Power (dBm)	Ant. Gain (dBi)	Adjust Power (dBm)	Detection Limit (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5											
33	20	6115	6115	-67.39	2.94	-70.33	≤ -62.0	10	100	90	Pass
47	160	6185	6110	-60.04	2.94	-62.98	≤ -62.0	10	100	90	Pass
47	160	6185	6185	-60.03	2.94	-62.97	≤ -62.0	10	100	90	Pass
47	160	6185	6260	-64.17	2.94	-67.11	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 6											
97	20	6435	6435	-65.61	2.94	-68.55	≤ -62.0	10	100	90	Pass
111	160	6505	6430	-64.16	2.94	-67.10	≤ -62.0	10	100	90	Pass
111	160	6505	6505	-61.43	2.94	-64.37	≤ -62.0	10	100	90	Pass
111	160	6505	6580	-64.26	2.94	-67.20	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 7											
153	20	6715	6715	-65.39	2.94	-68.33	≤ -62.0	10	100	90	Pass
143	160	6665	6590	-63.29	2.94	-66.23	≤ -62.0	10	100	90	Pass
143	160	6665	6665	-63.02	2.94	-65.96	≤ -62.0	10	100	90	Pass
143	160	6665	6740	-62.93	2.94	-65.87	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 8											
213	20	7015	7015	-64.31	2.94	-67.25	≤ -62.0	10	100	90	Pass
207	160	6985	6910	-64.1	2.94	-67.04	≤ -62.0	10	100	90	Pass
207	160	6985	6985	-61.15	2.94	-64.09	≤ -62.0	10	100	90	Pass
207	160	6985	7060	-65.75	2.94	-68.69	≤ -62.0	10	100	90	Pass

Note 1: Adjust Power (dBm) = AWGN Power (dBm) – Antenna Gain (dBi).

Note 2: Conducted measurements are used.

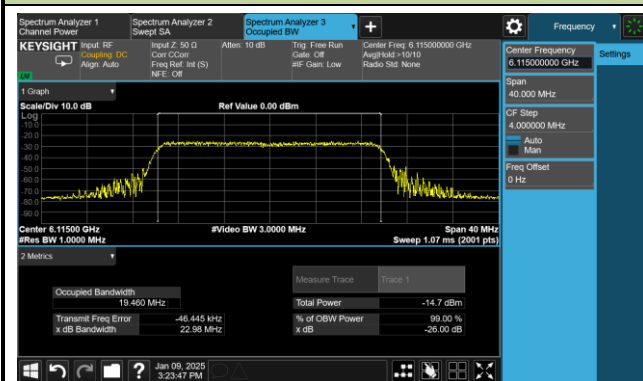
Test Site	SIP-TR1	Test Engineer	Alan Yu
Test Date	2025-01-09 ~ 2025-02-19		

Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Tx Status
Operation Band: U-NII 5				
20	6135	6115	-73.24	ON
			-72.24	Minimal
			-70.33	OFF
160	6185	6110	-72.64	ON
			-71.64	Minimal
			-62.98	OFF
160	6185	6185	-69.74	ON
			-68.74	Minimal
			-62.97	OFF
160	6185	6260	-74.74	ON
			-73.74	Minimal
			-67.11	OFF
Operation Band: U-NII 6				
20	6435	6435	-72.54	ON
			-71.54	Minimal
			-68.55	OFF
160	6505	6430	-73.74	ON
			-72.74	Minimal
			-67.10	OFF
160	6505	6505	-70.44	ON
			-69.44	Minimal
			-64.37	OFF
160	6505	6580	-73.84	ON
			-72.84	Minimal
			-67.20	OFF

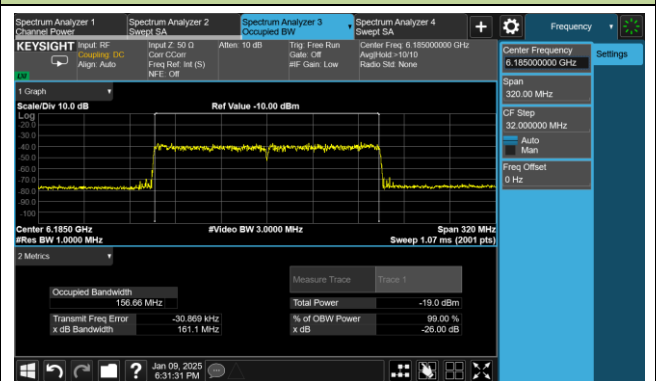
Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Status
Operation Band: U-NII 7				
20	6715	6715	-72.44	ON
			-71.44	Minimal
			-68.33	OFF
160	6665	6590	-75.54	ON
			-74.54	Minimal
			-66.23	OFF
160	6665	6665	-69.84	ON
			-68.84	Minimal
			-65.96	OFF
160	6665	6740	-74.44	ON
			-73.44	Minimal
			-65.87	OFF
Operation Band: U-NII 8				
20	7015	7015	-72.84	ON
			-71.84	Minimal
			-67.25	OFF
160	6985	6910	-73.74	ON
			-72.74	Minimal
			-67.04	OFF
160	6985	6985	-69.04	ON
			-68.04	Minimal
			-64.09	OFF
160	6985	7060	-72.84	ON
			-71.84	Minimal
			-68.69	OFF
Note: 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				

EUT Tx Waveform

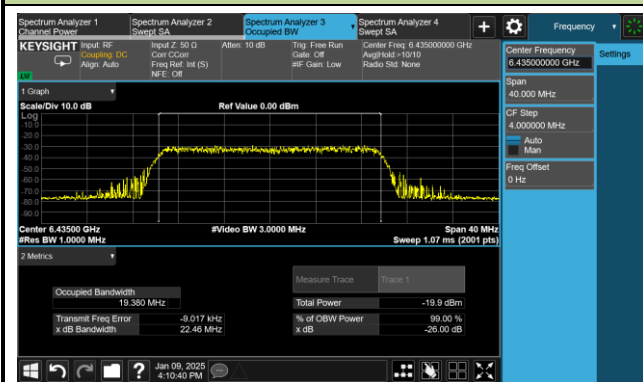
802.11ax-HE20 / CH33



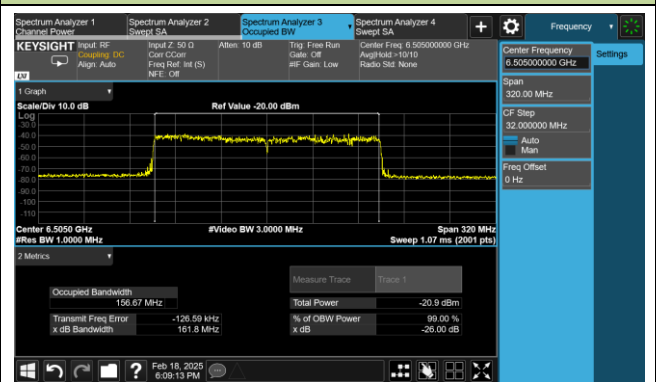
802.11ax-HE160 / CH47



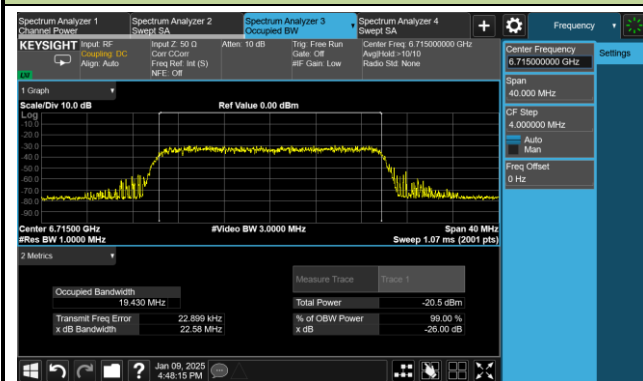
802.11ax-HE20 / CH97



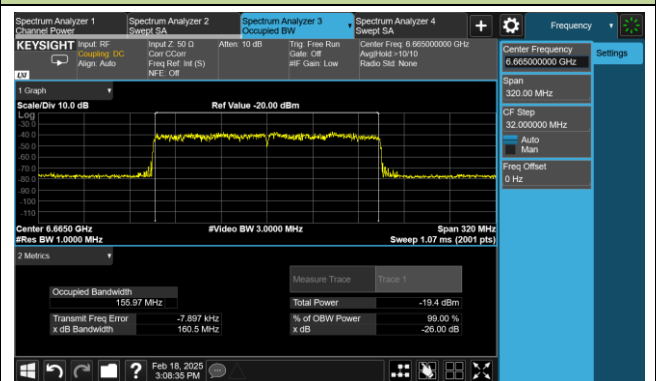
802.11ax-HE160 / CH111



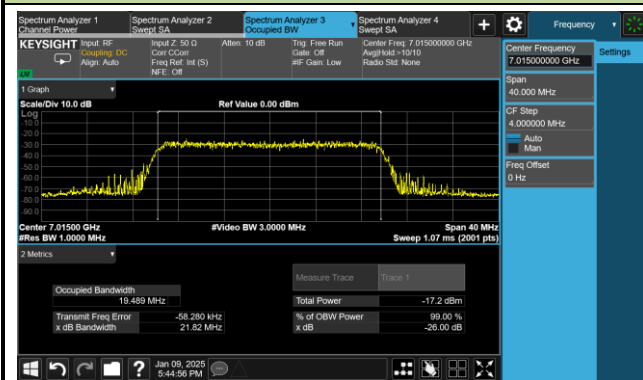
802.11ax-HE20 / CH153



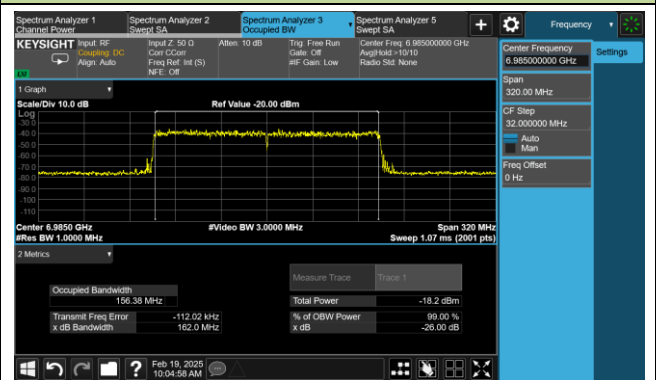
802.11ax-HE160 / CH143



802.11ax-HE20 / CH213

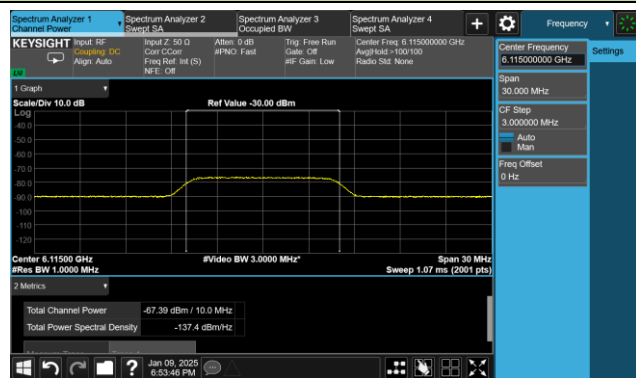


802.11ax-HE160 / CH207

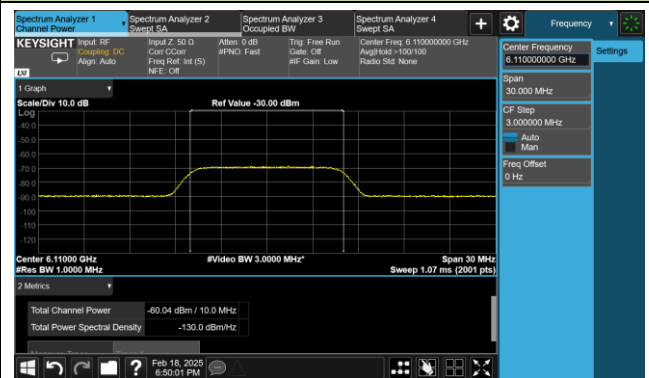


Incumbent Signal Calibration Plots (NII-5 Band)

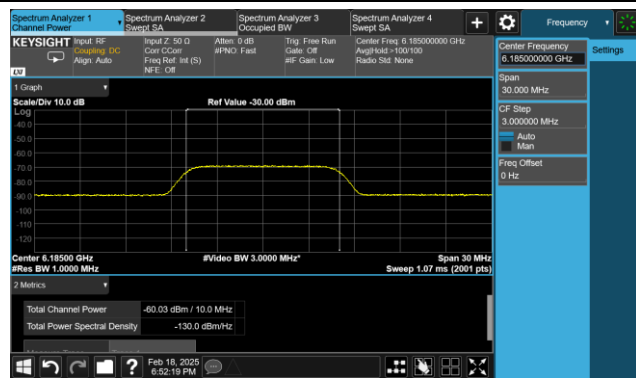
802.11ax-HE20 / CH33



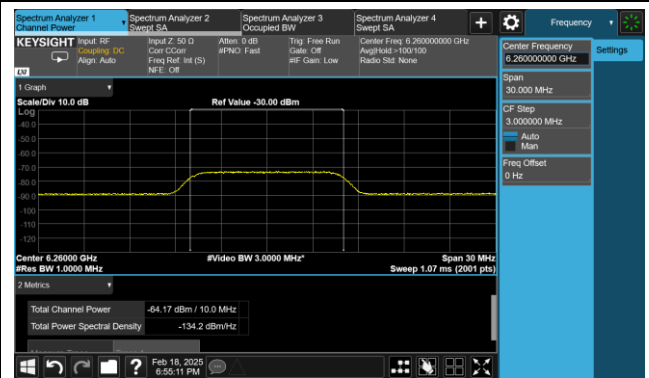
802.11ax-HE160 / CH47 (Low Edge)



802.11ax-HE160 / CH47 (Middle)

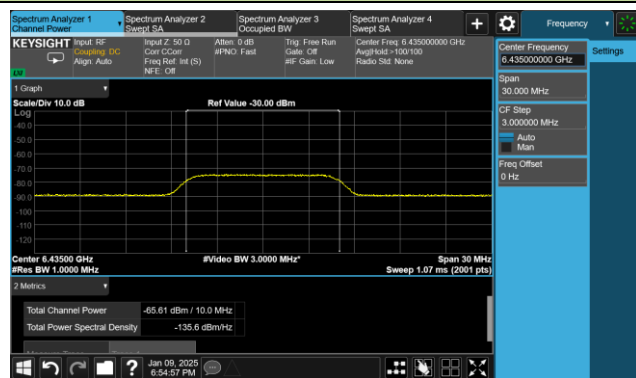


802.11ax-HE160 / CH47 (High Edge)

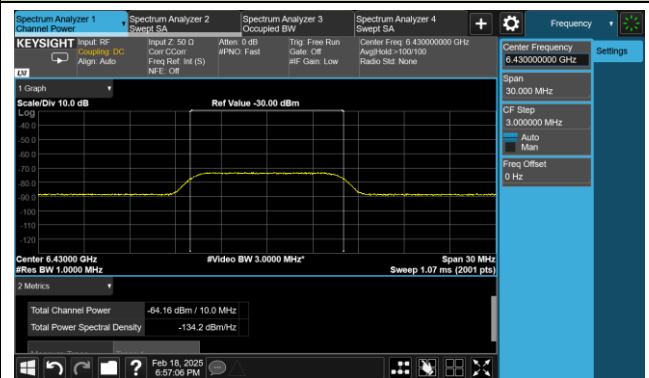


Incumbent Signal Calibration Plots (NII-6 Band)

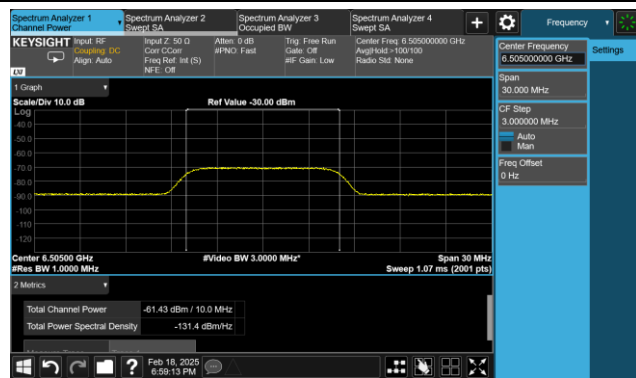
802.11ax-HE20 / CH97



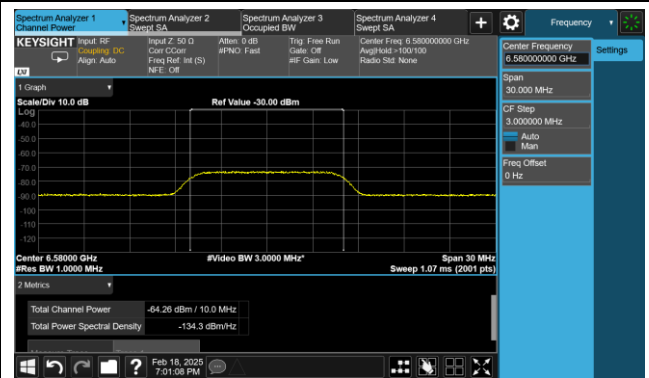
802.11ax-HE160 / CH111 (Low Edge)



802.11ax-HE160 / CH111 (Middle)

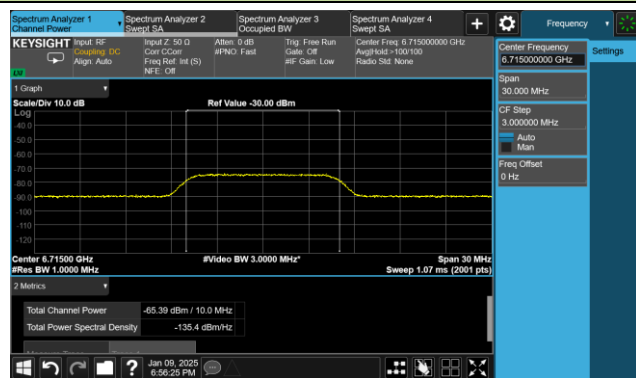


802.11ax-HE160 / CH111 (High Edge)

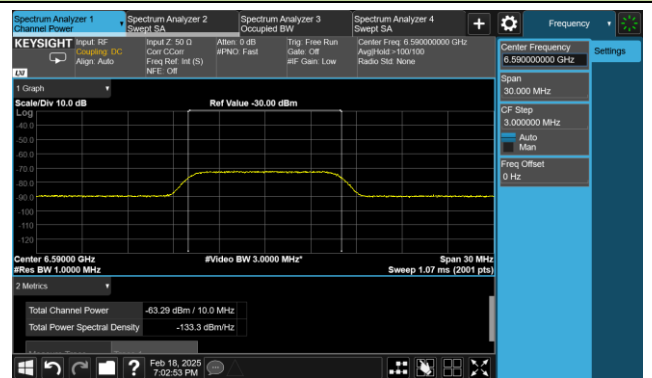


Incumbent Signal Calibration Plots (NII-7 Band)

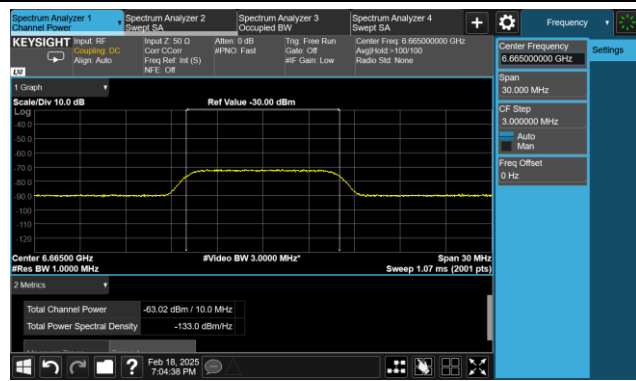
802.11ax-HE20 / CH153



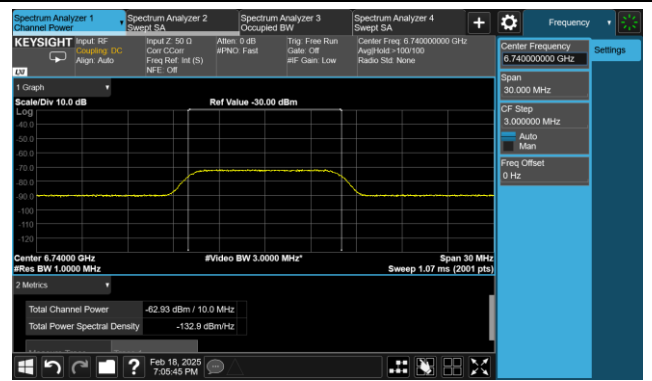
802.11ax-HE160 / CH143 (Low Edge)



802.11ax-HE160 / CH143 (Middle)

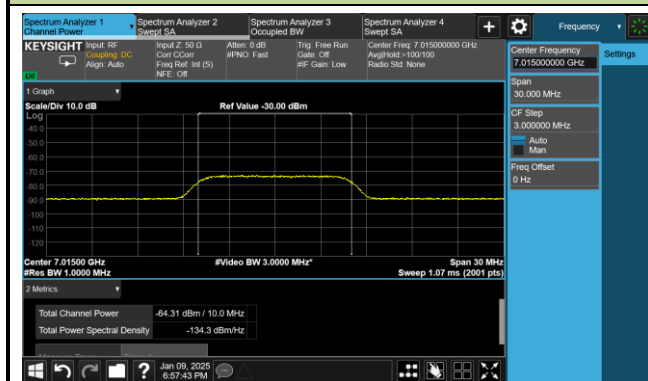


802.11ax-HE160 / CH143 (High Edge)

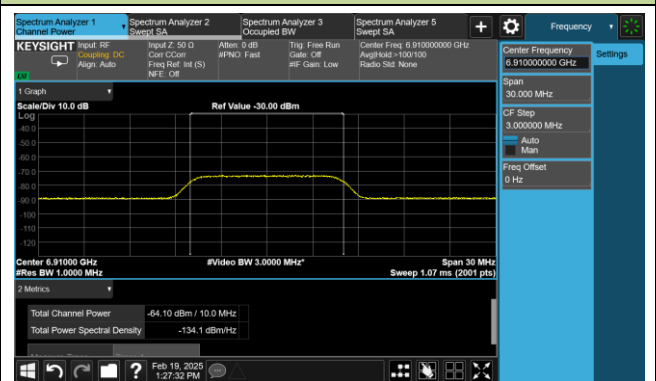


Incumbent Signal Calibration Plots (NII-8 Band)

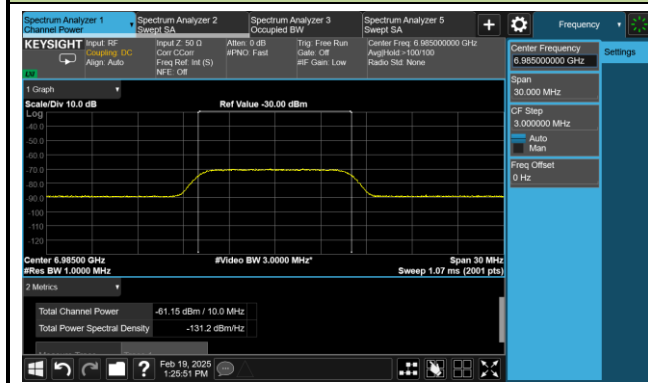
802.11ax-HE20 / CH213



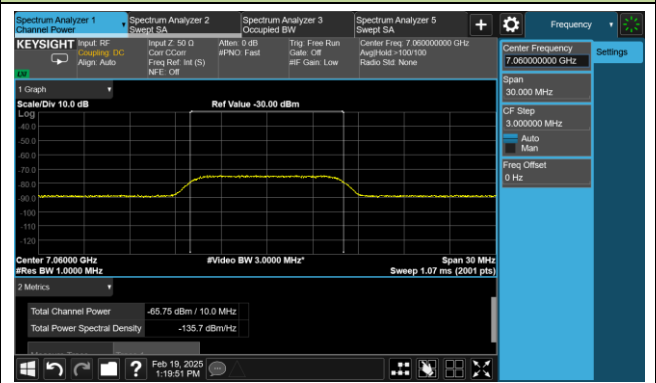
802.11ax-HE160 / CH207 (Low Edge)



802.11ax-HE160 / CH207 (Middle)

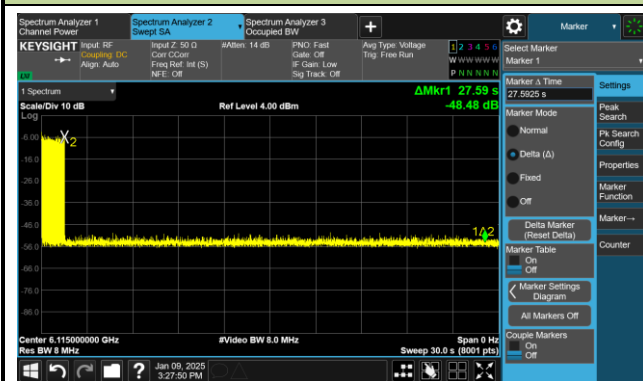


802.11ax-HE160 / CH207 (High Edge)

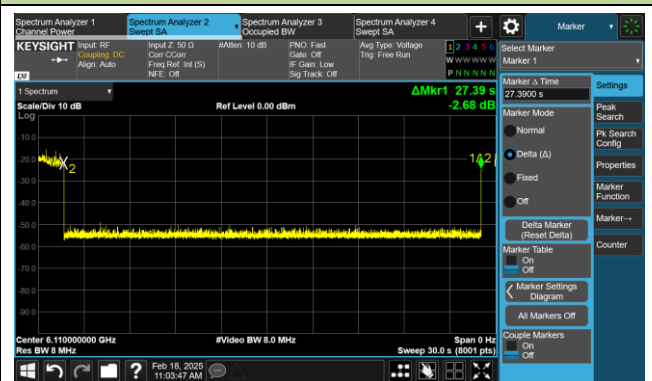


Test Result of EUT ceased transmission (NII-5 Band)

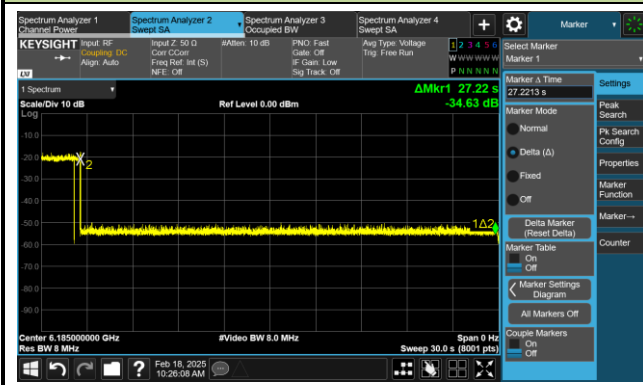
802.11ax-HE20 / CH33



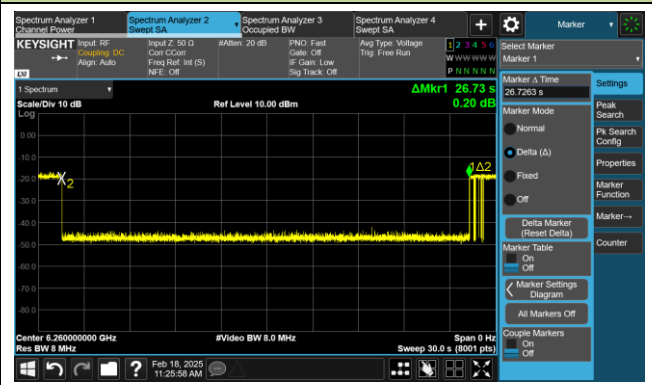
802.11ax-HE160 / CH47 (Low Edge)



802.11ax-HE160 / CH47 (Middle)

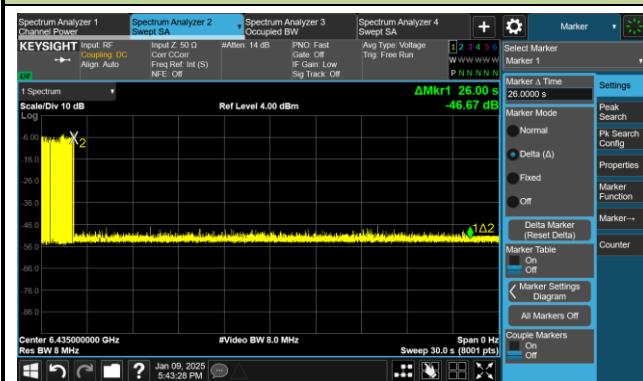


802.11ax-HE160 / CH47 (High Edge)

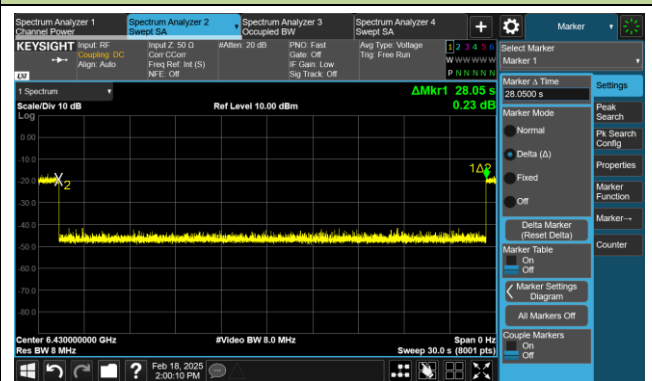


Test Result of EUT ceased transmission (NII-6 Band)

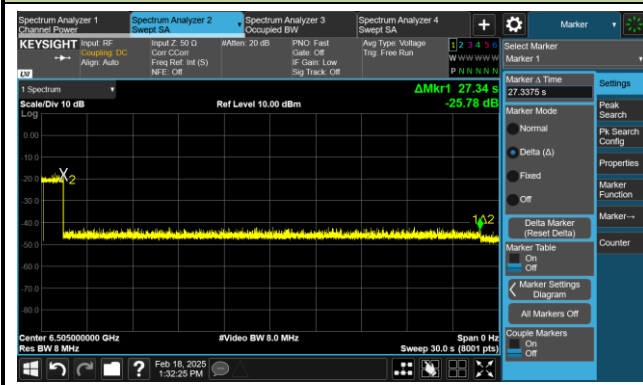
802.11ax-HE20 / CH97



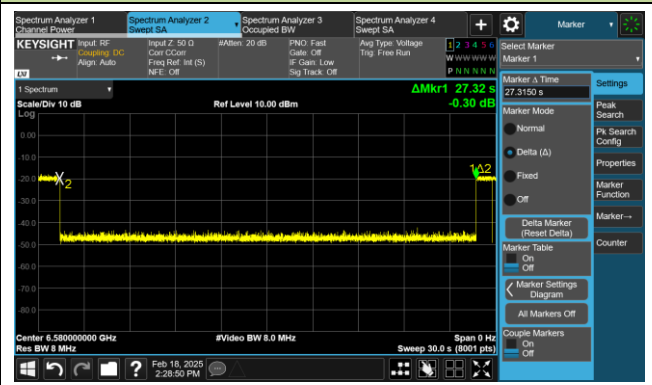
802.11ax-HE160 / CH111 (Low Edge)



802.11ax-HE160 / CH111 (Middle)

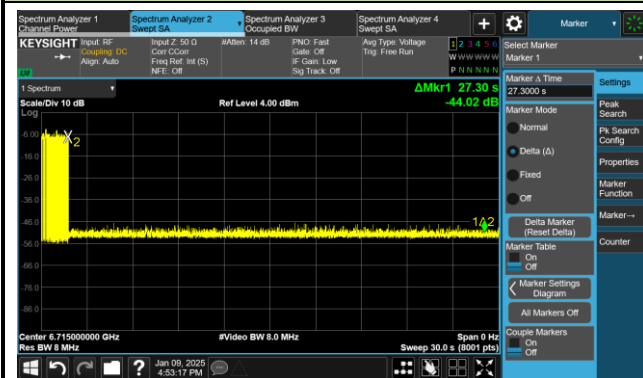


802.11ax-HE160 / CH111 (High Edge)

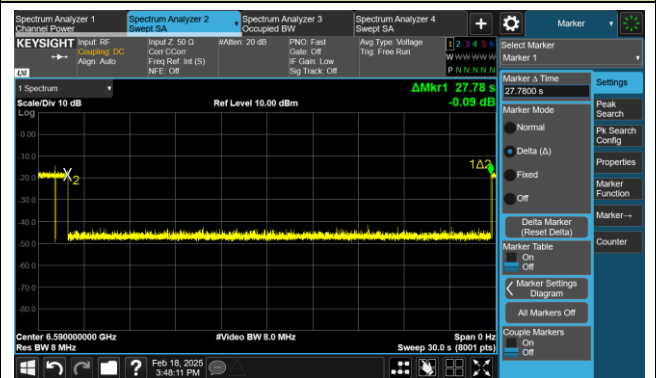


Test Result of EUT ceased transmission (NII-7 Band)

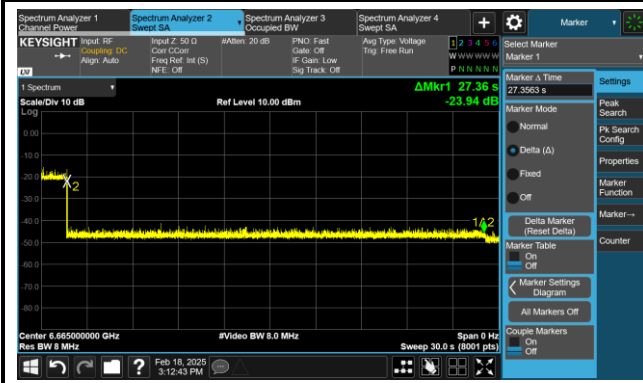
802.11ax-HE20 / CH153



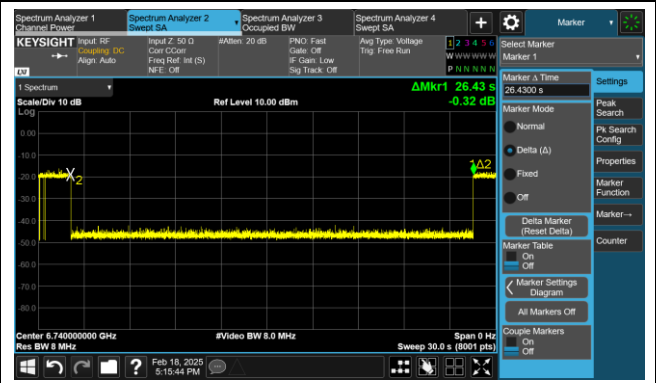
802.11ax-HE160 / CH143 (Low Edge)



802.11ax-HE160 / CH143 (Middle)



802.11ax-HE160 / CH143 (High Edge)

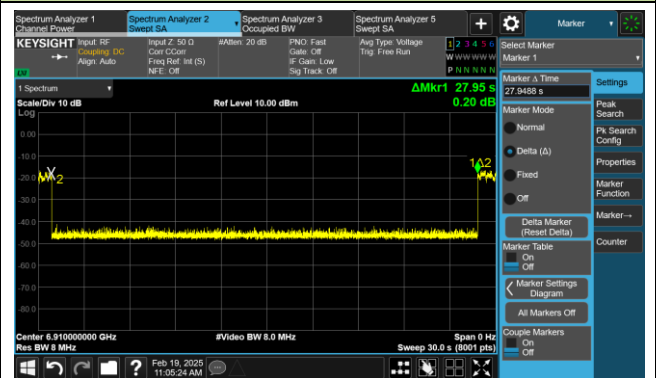


Test Result of EUT ceased transmission (NII-8 Band)

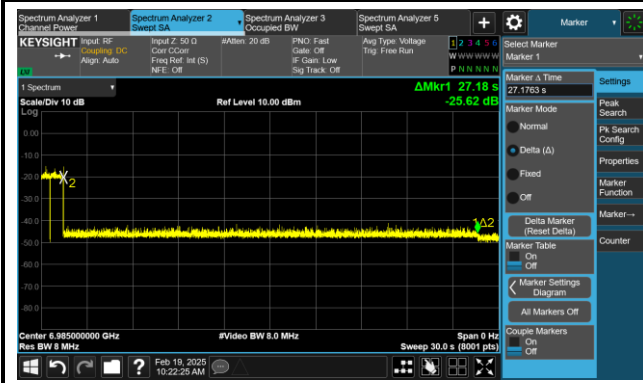
802.11ax-HE20 / CH213



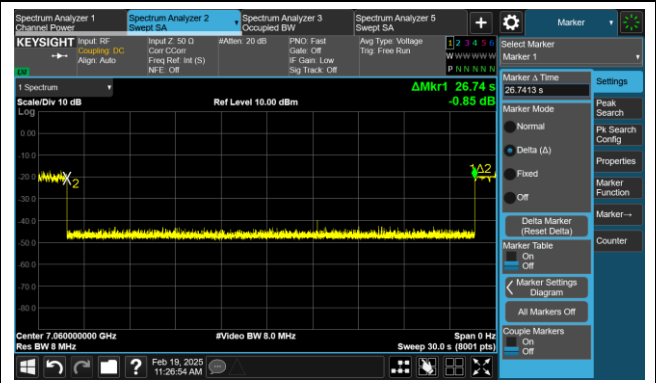
802.11ax-HE160 / CH207 (Low Edge)



802.11ax-HE160 / CH207 (Middle)



802.11ax-HE160 / CH207 (High Edge)



Client operating under the control of a standard power access point

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-03-05		

Test Channel	Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	AWGN Power (dBm)	Ant. Gain (dBi)	Adjust Power (dBm)	Detection Limit (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5											
37	20	6135	6135	-70.0	2.94	-72.94	≤ -62.0	10	100	90	Pass
79	160	6345	6270	-66.0	2.94	-68.94	≤ -62.0	10	100	90	Pass
79	160	6345	6345	-65.0	2.94	-67.94	≤ -62.0	10	100	90	Pass
79	160	6345	6420	-67.0	2.94	-69.94	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 7											
133	20	6615	6615	-68.0	2.94	-70.94	≤ -62.0	10	100	90	Pass
143	160	6665	6590	-65.0	2.94	-67.94	≤ -62.0	10	100	90	Pass
143	160	6665	6665	-64.0	2.94	-66.94	≤ -62.0	10	100	90	Pass
143	160	6665	6740	-67.0	2.94	-69.94	≤ -62.0	10	100	90	Pass

Note 1: Adjust Power (dBm) = AWGN Power (dBm) – Antenna Gain (dBi).

Note 2: Conducted measurements are used.

Note 3: For U-NII 5 and U-NII 7, the lower antenna gain specified in the antenna specification is utilized.

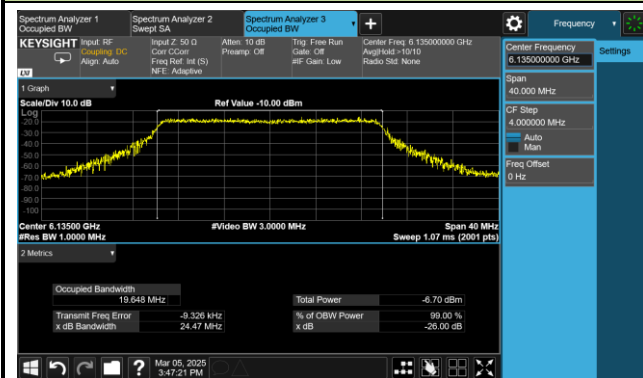
Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-11-25		

Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Tx Status
Operation Band: U-NII 5				
20	6135	6135	-75.94	ON
			-74.94	Minimal
			-72.94	OFF
160	6345	6270	-73.94	ON
			-72.94	Minimal
			-68.94	OFF
160	6345	6345	-69.94	ON
			-68.94	Minimal
			-67.94	OFF
160	6345	6420	-73.94	ON
			-72.94	Minimal
			-69.94	OFF

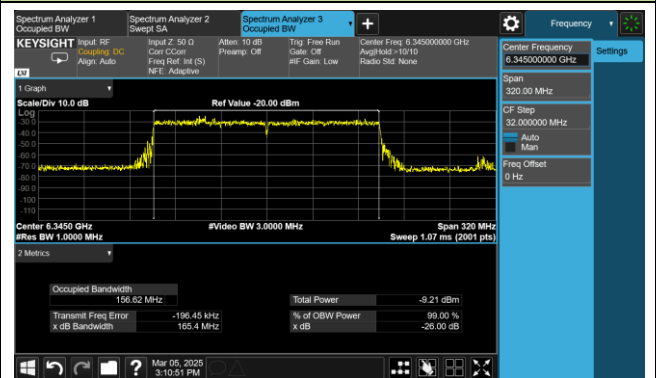
Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Status
Operation Band: U-NII 7				
20	6615	6615	-73.94	ON
			-72.94	Minimal
			-70.94	OFF
160	6665	6590	-72.94	ON
			-71.94	Minimal
			-67.94	OFF
160	6665	6665	-68.94	ON
			-67.94	Minimal
			-66.94	OFF
160	6665	6740	-72.94	ON
			-71.94	Minimal
			-69.94	OFF
Note: 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				

EUT Tx Waveform

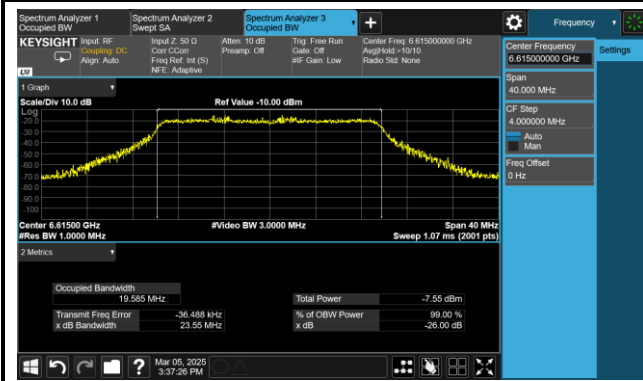
802.11ax-HE20 / CH37



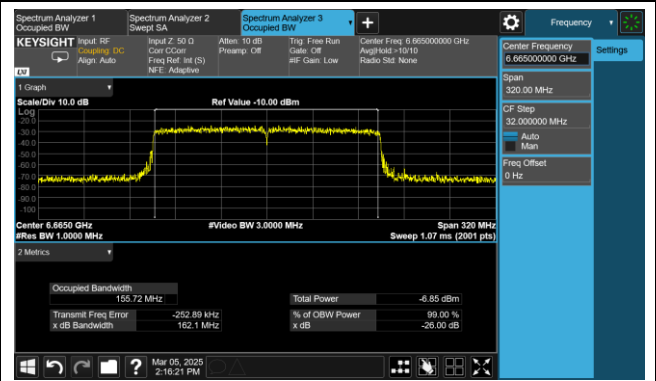
802.11ax-HE160 / CH79



802.11ax-HE20 / CH133

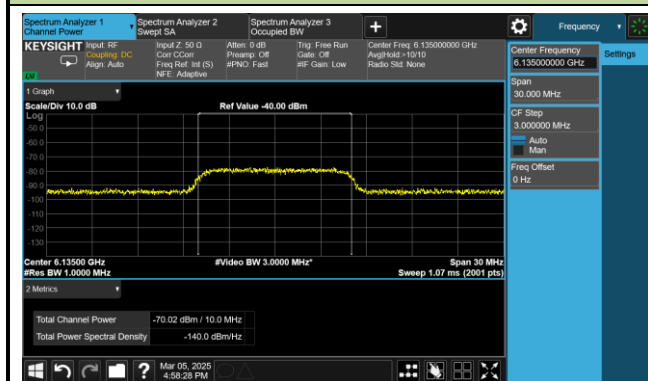


802.11ax-HE160 / CH143

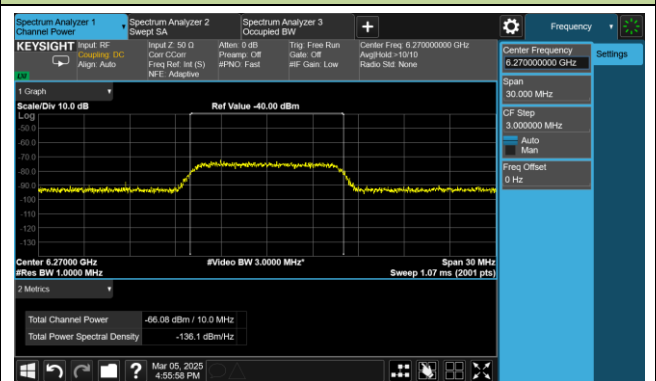


Incumbent Signal Calibration Plots (NII-5 Band)

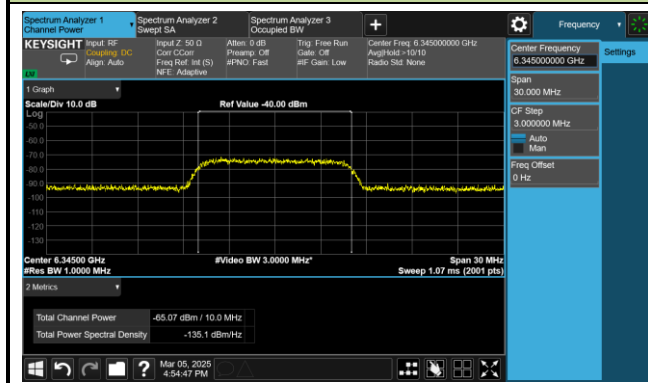
802.11ax-HE20 / CH37



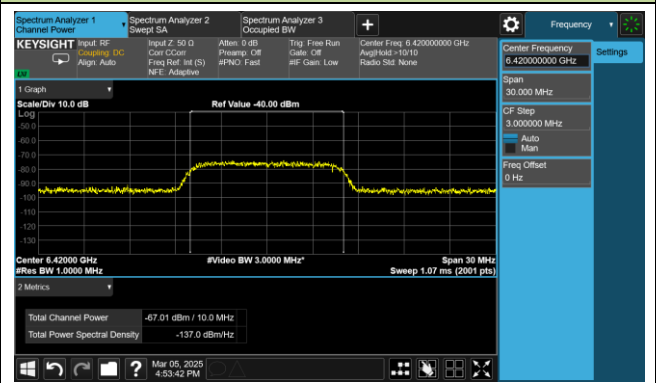
802.11ax-HE160 / CH79 (Low Edge)



802.11ax-HE160 / CH79 (Middle)

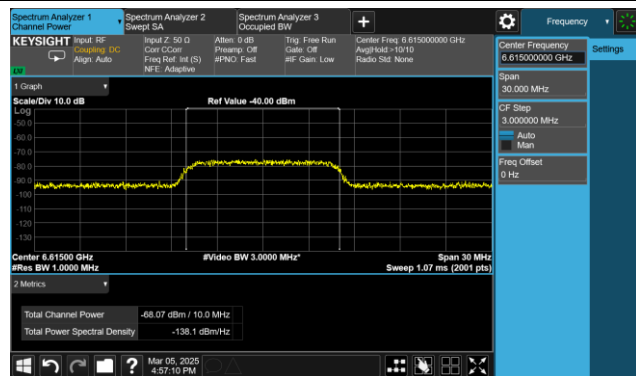


802.11ax-HE160 / CH79 (High Edge)

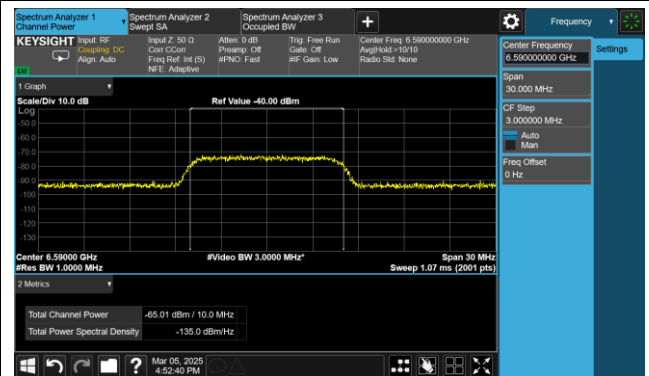


Incumbent Signal Calibration Plots (NII-7 Band)

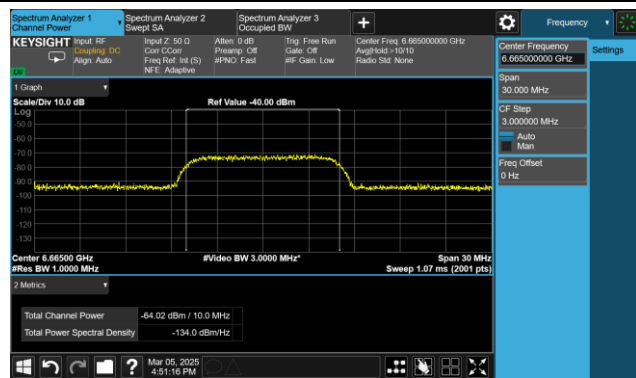
802.11ax-HE20 / CH133



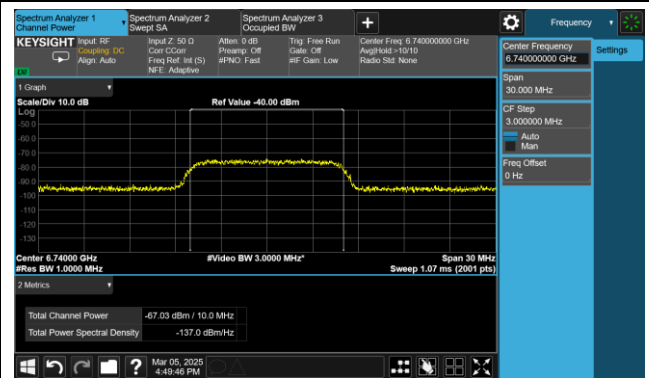
802.11ax-HE160 / CH143 (Low Edge)



802.11ax-HE160 / CH143 (Middle)

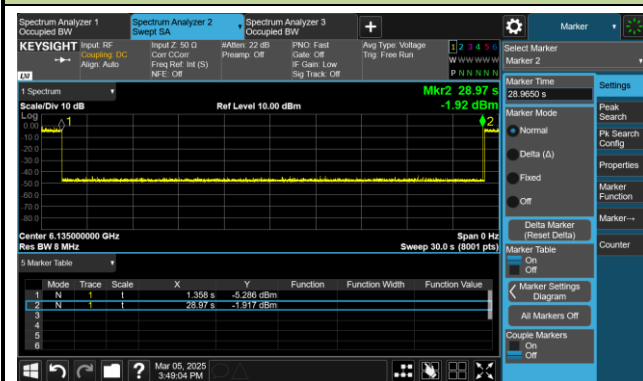


802.11ax-HE160 / CH143 (High Edge)

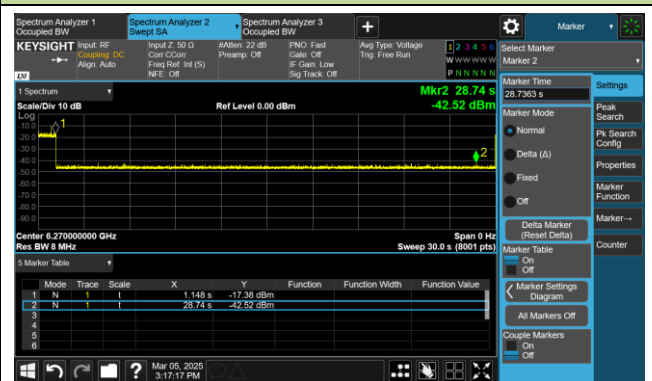


Test Result of EUT ceased transmission (NII-5 Band)

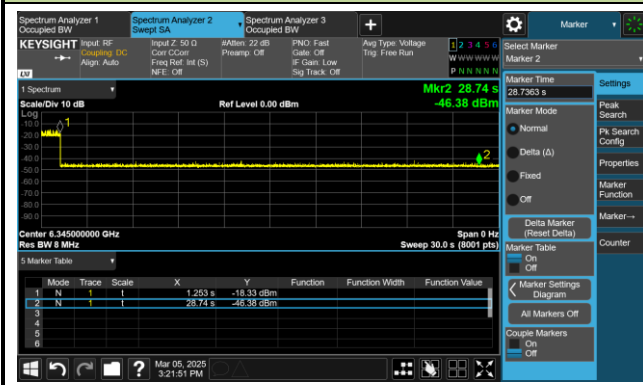
802.11ax-HE20 / CH37



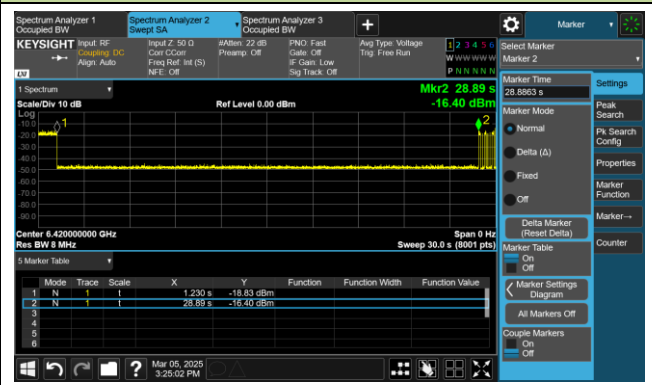
802.11ax-HE160 / CH79 (Low Edge)



802.11ax-HE160 / CH79 (Middle)

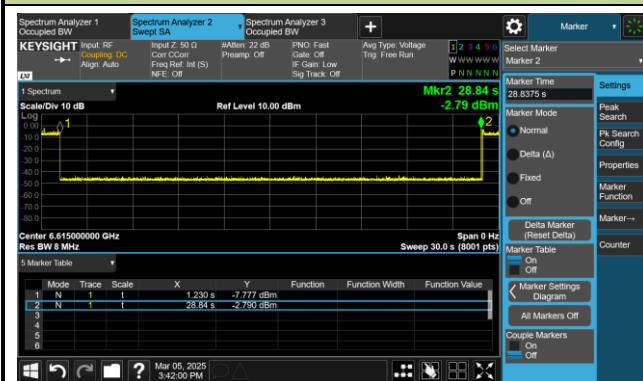


802.11ax-HE160 / CH79 (High Edge)

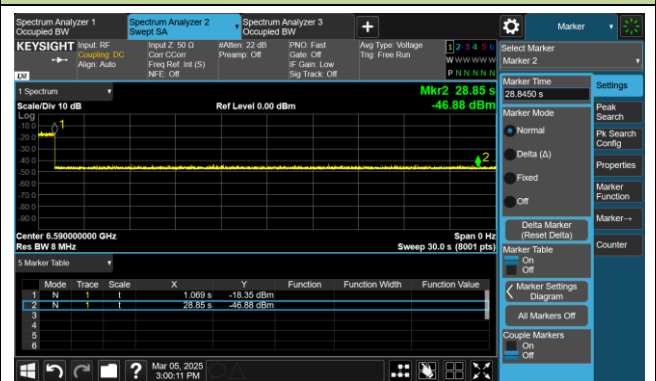


Test Result of EUT ceased transmission (NII-7 Band)

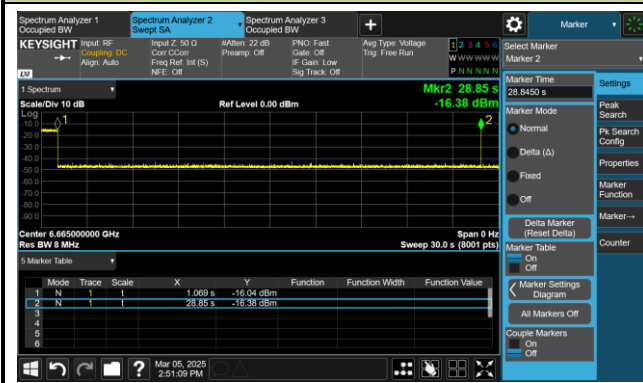
802.11ax-HE20 / CH133



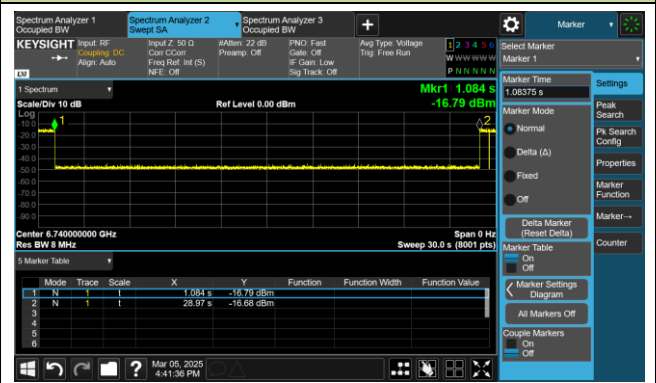
802.11ax-HE160 / CH143 (Low Edge)



802.11ax-HE160 / CH143 (Middle)



802.11ax-HE160 / CH143 (High Edge)



A.8 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC)

Test Result

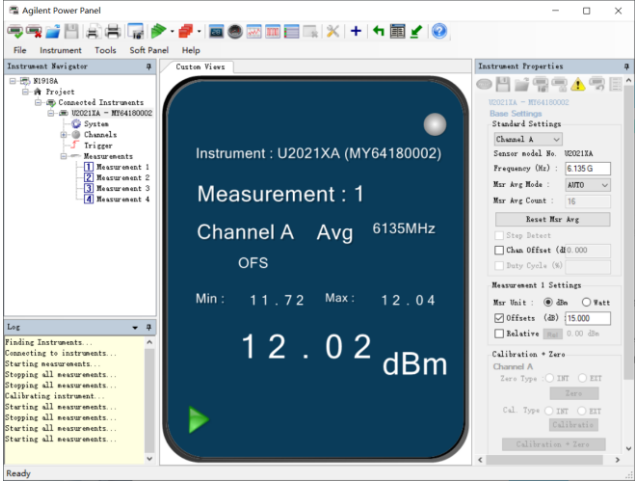
Product	Mobile Computer	Test Engineer	Dandy Li
Test Site	WZ-SR5	Test Date	2025-02-10
Test Mode	802.11ax-HE20	Test Channel	93

	Client Conducted Power (dBm)	Client EIRP (dBm)	Anritsu MT8862A EIRP (dBm)	Anritsu MT8862A to Client EIRP Delta (dB)	Limit (dB)	Test Result
Maximum EIRP	12.02	15.84	36.00	20.16	> 6	Pass
Midpoint EIRP	10.62	14.44	28.00	13.56	> 6	Pass
Lowest EIRP	8.92	12.74	21.00	8.26	> 6	Pass

Notes:

1. We choose one port of Client to test
2. Client EIRP (dBm) = Client Conducted Power (dBm) + Antenna Gain (dBi), Antenna Gain = 3.82dBi

Maximum

Anritsu MT8862A EIRP (36dBm)	Client Device Power
Power Save Settings - More Data Field - TIM: Enable - Data Frames: Enable - Beacon Frames: Enable HE Operation Element - BSS Color: 1 Transmit Power Envelope Element - TPE Element Count: 1 - Regulatory Info: 1 TPE1 - Transmit Power Category: 0 - Unit Interpretation: Reg. client EIRP - Maximum Transmit Power Count: 3 - Maximum Transmit Power Value - For 20 MHz: 36.0 dBm - For 40 MHz: 36.0 dBm - For 80 MHz: 36.0 dBm - For 160 MHz: 36.0 dBm	

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