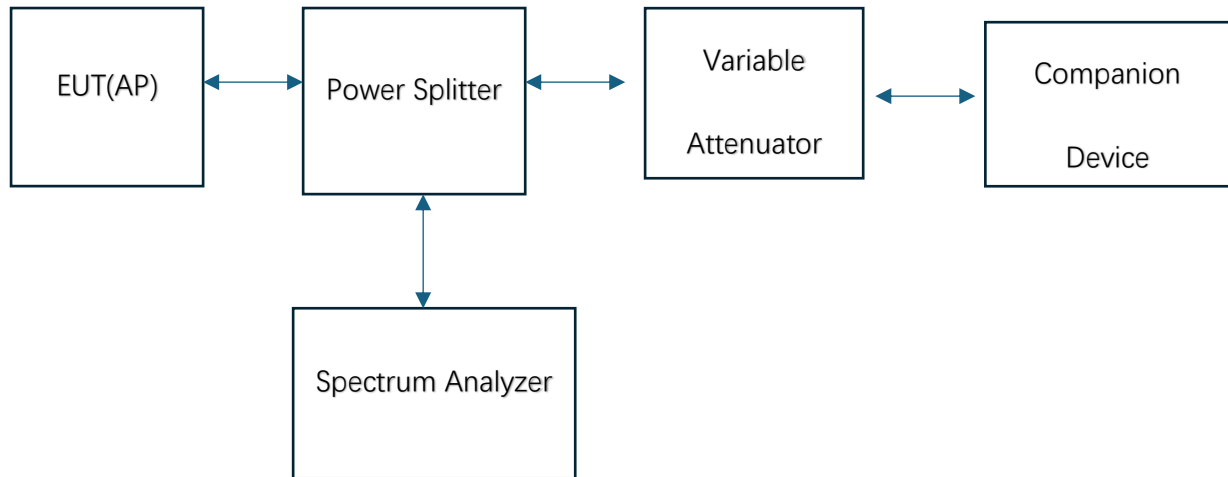


6G WLAN VLP TPC Test method:(For FCC ID: 2AAC2-A2I)

1. Configure one EUT as AP, Configure another one as Station
2. Connect the test configuration as below:



3. Set the variable attenuator as 10dB(RSSI high), establish a link and start communication between EUT and companion device, and record the PSD of each antenna port(Low);
4. Set the variable attenuator as 40dB(RSSI low), establish a link and start communication between EUT and companion device, and record the PSD of each antenna port(High);
5. Sum the test result of all antenna port.
6. Compare the highest PSD@RSSI high and PSD@RSSI low.

SA Settings: RBW: 1MHz, VBW: 3MHz

Span: 200MHz

Sweep time: Auto, AV trace with 100 sweeps, RMS detector.

Result:

Measured conducted PSD:

Frequency (MHz)	Mode	BW (MHz)	Measured PSD with Low RSSI (dBm/MHz)				Measured PSD with High RSSI (dBm/MHz)				Pass/Fail (Minimum Delta≥ 6dB)
			Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4	
6185	802.11 ax	160	-20.76	-20.24	-20.93	-19.04	-29.66	-29.00	-29.08	-28.07	8.15

Antenna gain: Ant1: 3.21dBi, Ant2: 3.04dBi, Ant3: 4.06dBi, Ant4: 4.36dBi

Calculated EIRP PSD of each antenna

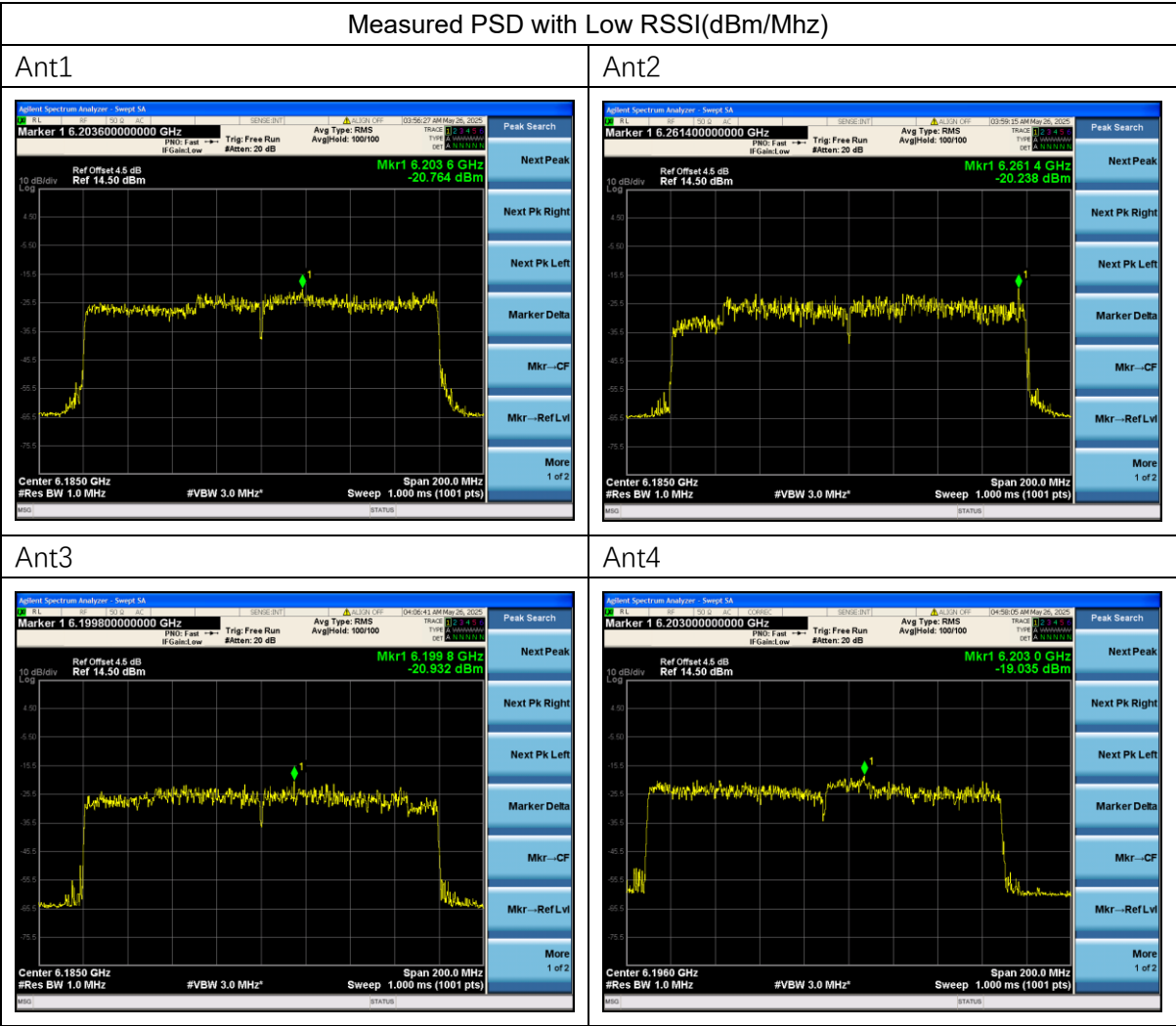
Frequency (MHz)	Mode	BW (MHz)	Measured EIRP PSD with Low RSSI (dBm/MHz)				Measured EIRP PSD with High RSSI (dBm/MHz)				Pass/Fail (Minimum Delta≥ 6dB)
			Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4	
6185	802.11 ax	160	-17.55	-17.2	-16.87	-14.68	-26.45	-25.96	-25.02	-23.71	8.15

Calculated Summed PSD

Frequency (MHz)	Mode	BW (MHz)	Sum EIRP PSD with Low RSSI (dBm/MHz)	Limit(≤-5dBm/MHz)	Sum EIRP PSD with High RSSI (dBm/MHz)	Limit(≤-11dBm/MHz)
6185	802.11 ax	160	-10.40	Pass	-19.14	Pass

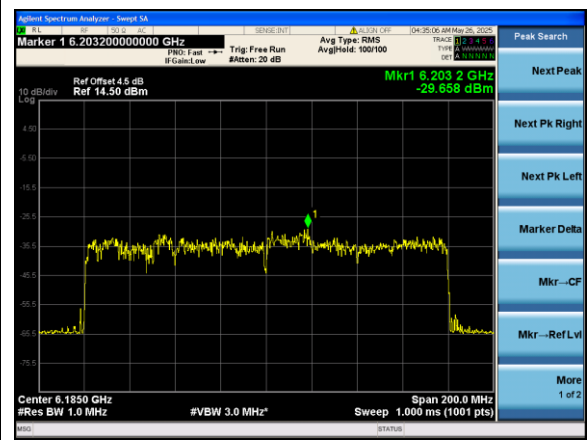
Final Conclusion: This device only support VLP mode and complies TPC mechanism operated at low and high RSSI.

Test Plot:

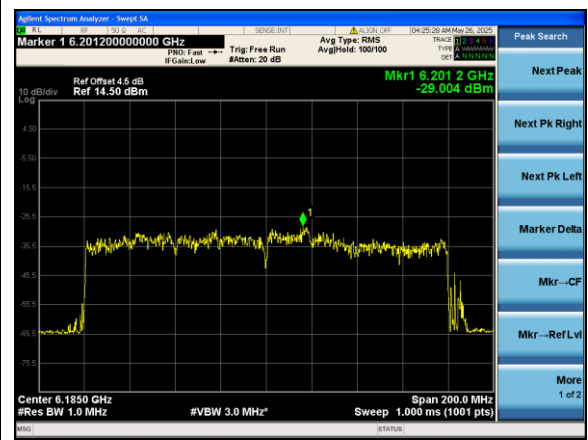


Measured PSD with High RSSI(dBm/Mhz)

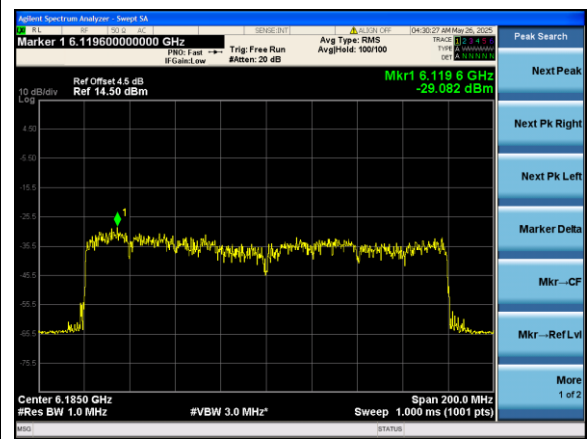
Ant1



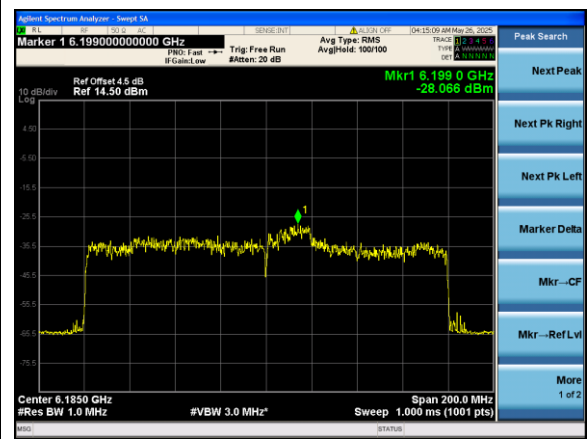
Ant2



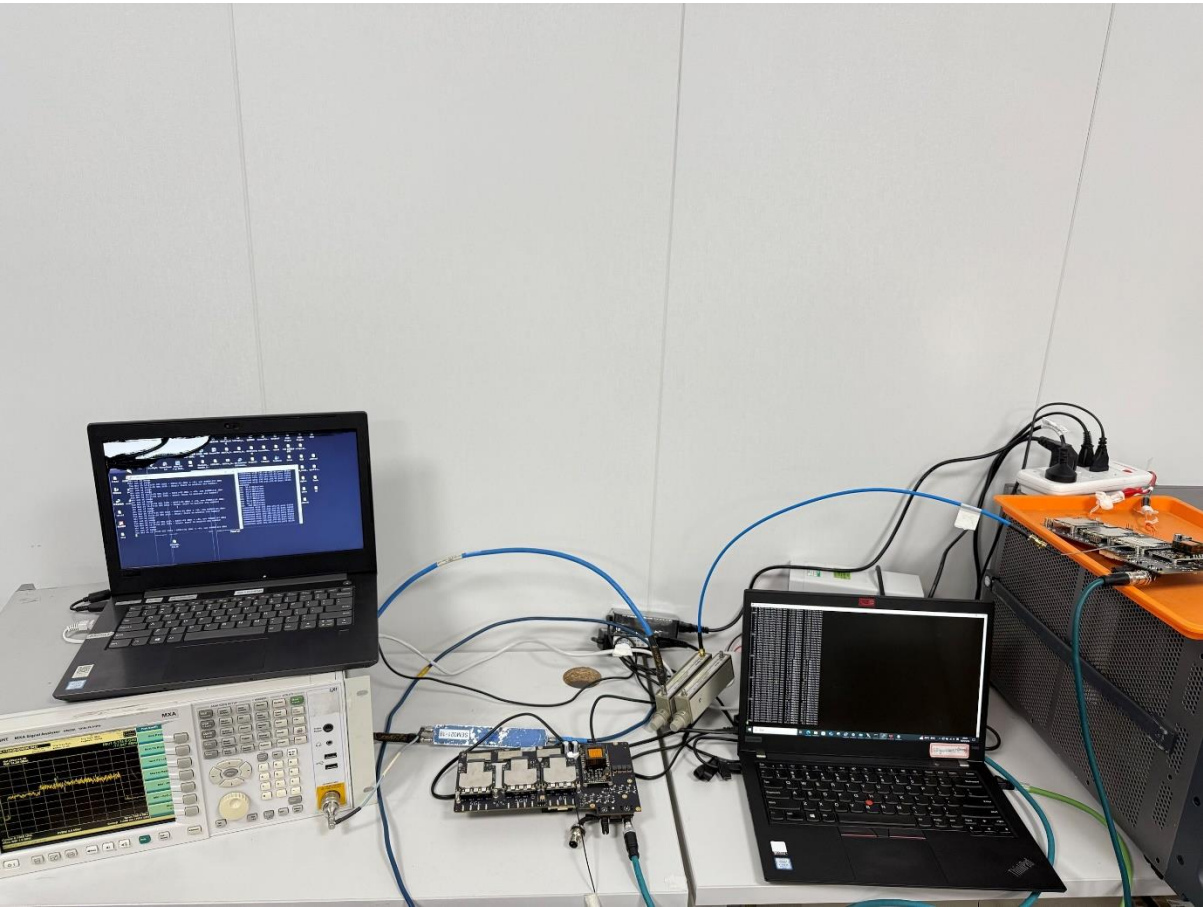
Ant3



Ant4



Test Setup:



Test instrument:

RF conducted					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-10-18	2025-10-17
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2025-03-18	2026-03-17
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-29	2026-03-28