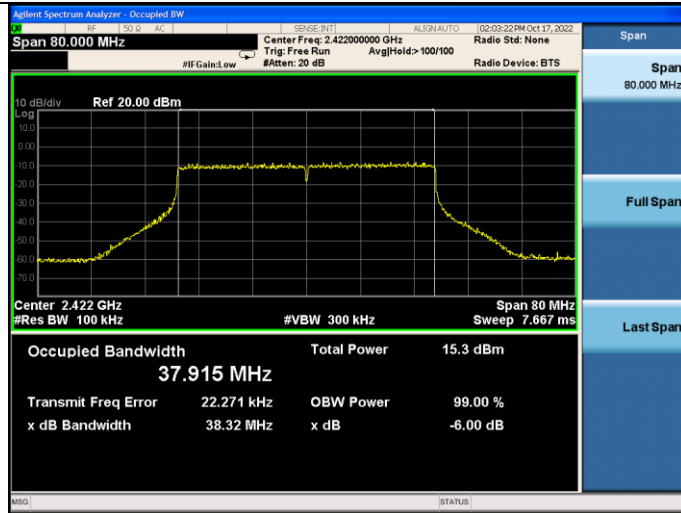


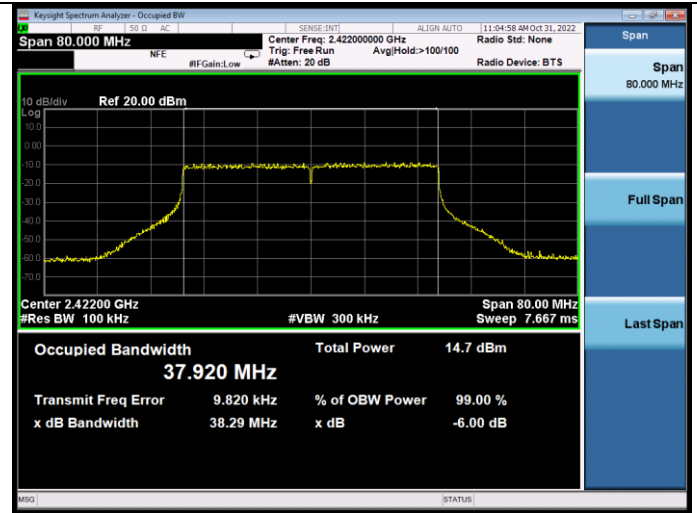
ANT1:

Test Mode: IEEE 802.11ax HE40
Test CH3: 2422MHz

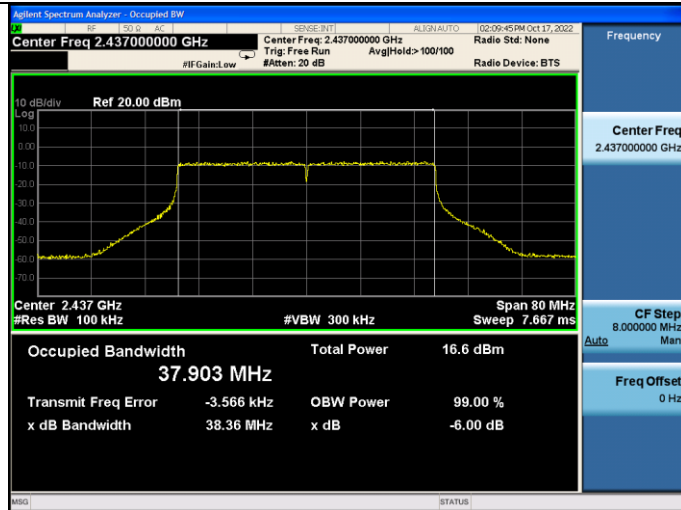


ANT2:

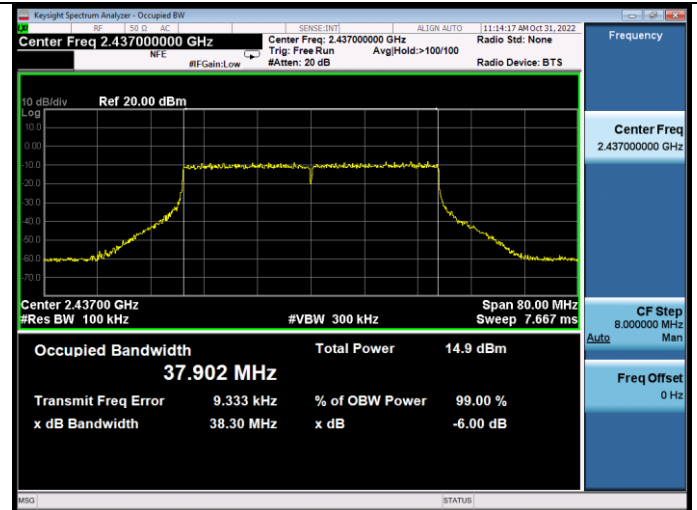
Test Mode: IEEE 802.11ax HE40
Test CH3: 2422MHz



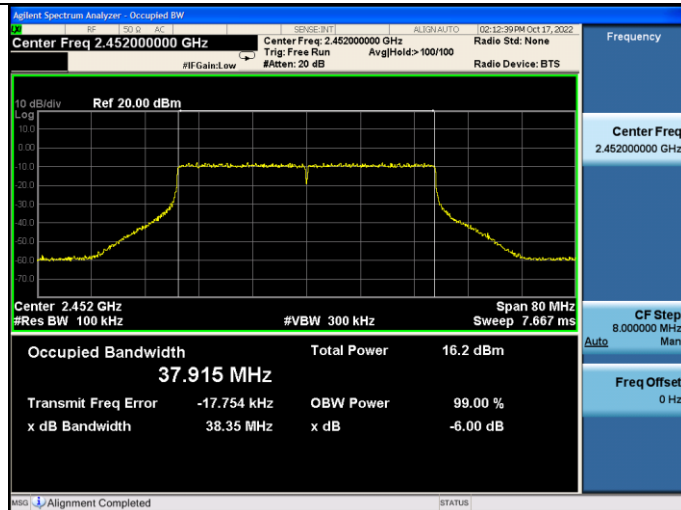
Test CH6: 2437MHz



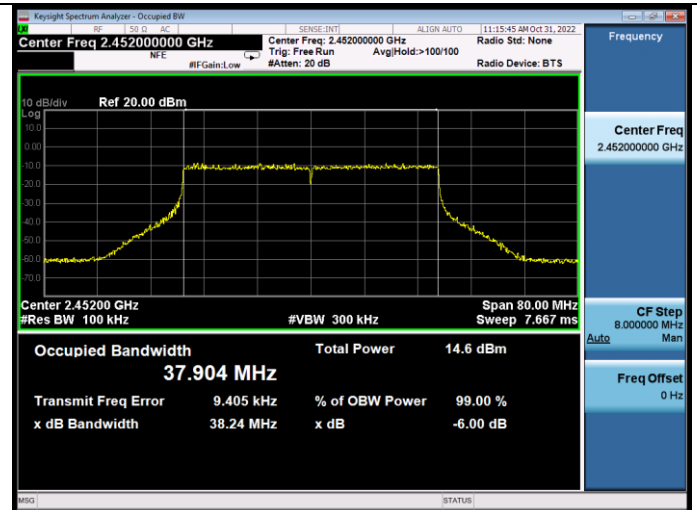
Test CH6: 2437MHz



Test CH9: 2452MHz



Test CH9: 2452MHz



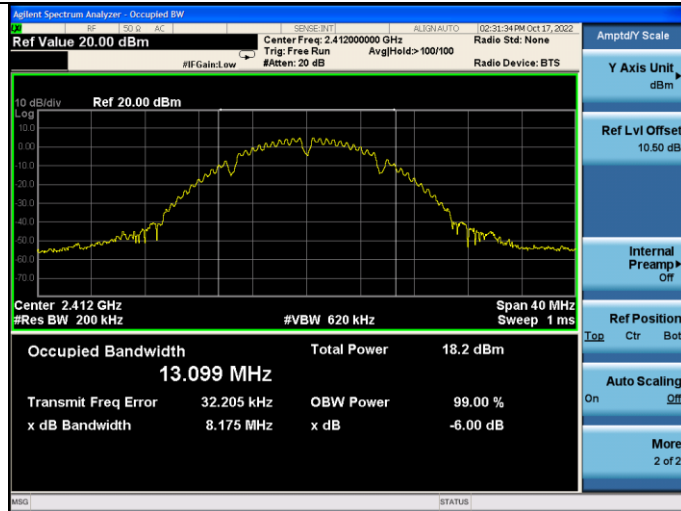
EUT: Display Head Unit		
M/N: DHU 1.0		
Test date: 2022-10-17~19	Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.3 ±0.6 °C

Test Mode	CH	99% Bandwidth(MHz)		Limit (MHz)
		ANT1	ANT2	
11b	CH1	13.099	13.094	N/A
	CH6	13.089	13.090	
	CH11	13.106	13.107	
11g	CH1	16.339	16.350	N/A
	CH6	16.336	16.340	
	CH11	16.345	16.346	
11n HT20	CH1	17.529	17.534	N/A
	CH6	17.530	17.533	
	CH11	17.527	17.522	
11n HT40	CH3	36.016	36.002	N/A
	CH6	36.007	36.031	
	CH9	36.020	36.020	
11ax HE20	CH1	19.078	19.078	N/A
	CH6	19.061	19.050	
	CH11	19.066	19.081	
11ax HE40	CH3	38.048	38.032	N/A
	CH6	38.049	38.024	
	CH9	38.004	38.043	

Conclusion: Pass

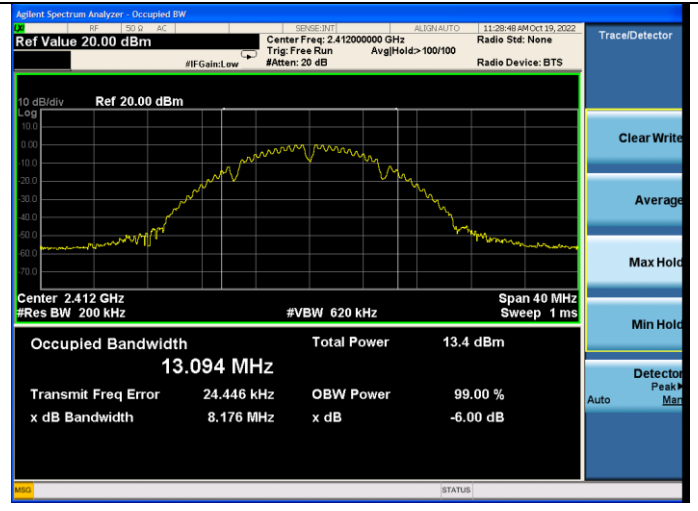
ANT1:

Test Mode: IEEE 802.11b
Test CH1: 2412MHz

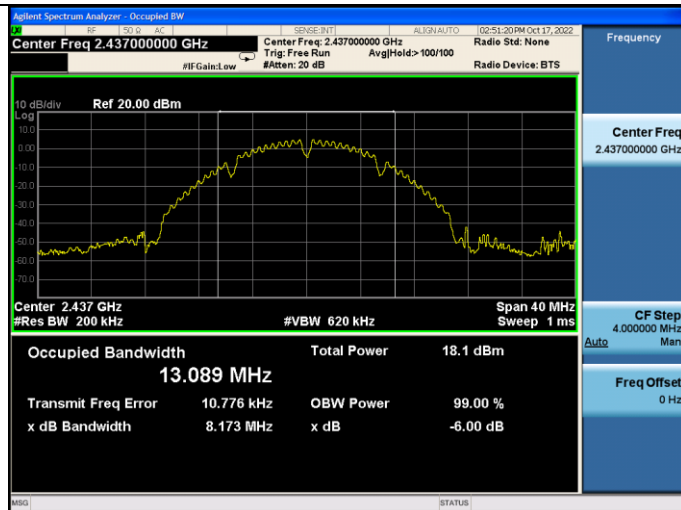


ANT2:

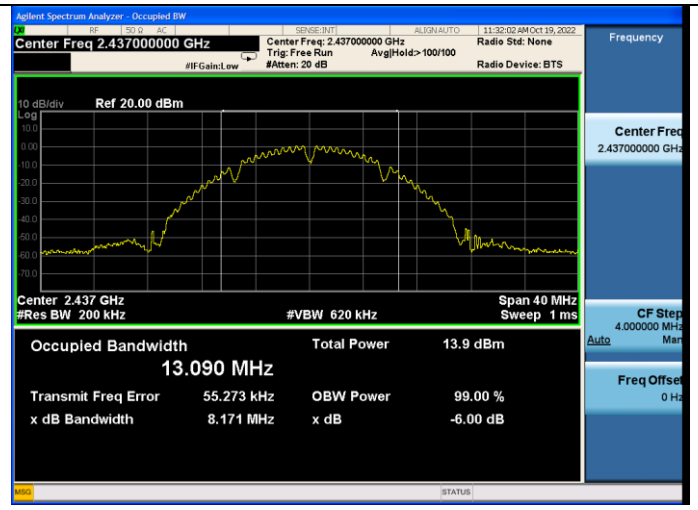
Test Mode: IEEE 802.11b
Test CH1: 2412MHz



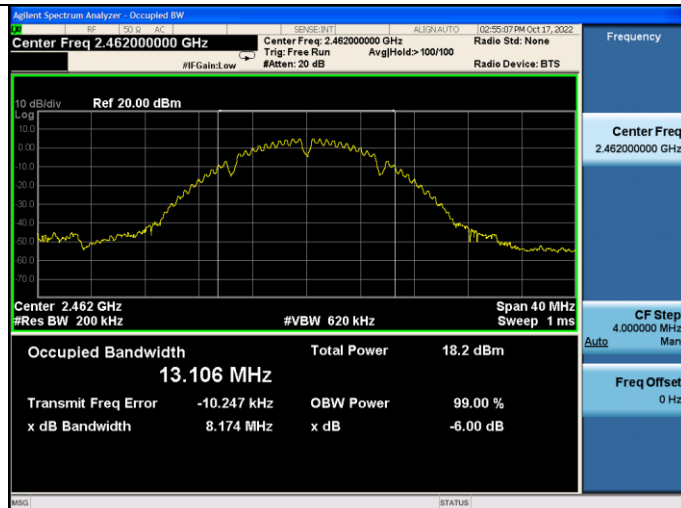
Test CH6: 2437MHz



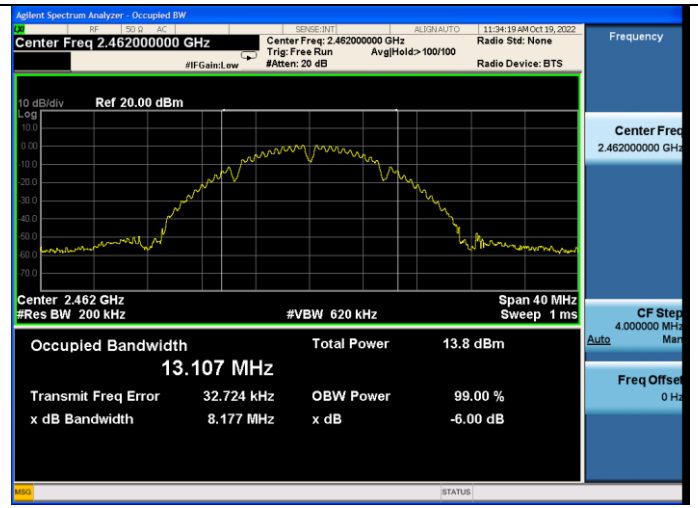
Test CH6: 2437MHz



Test CH11: 2462MHz

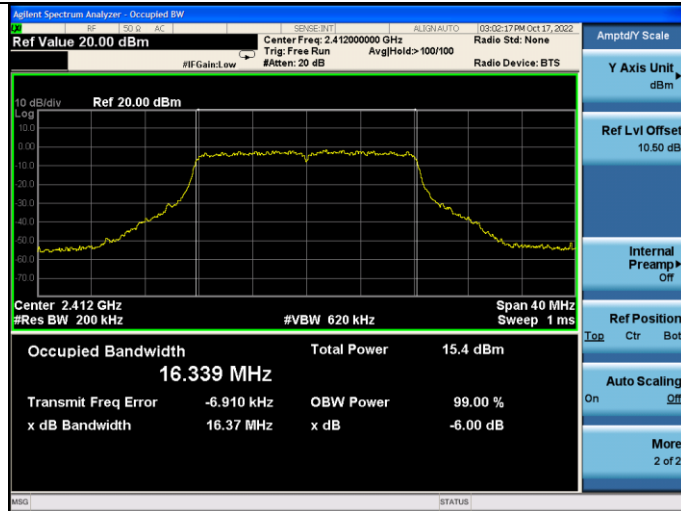


Test CH11: 2462MHz



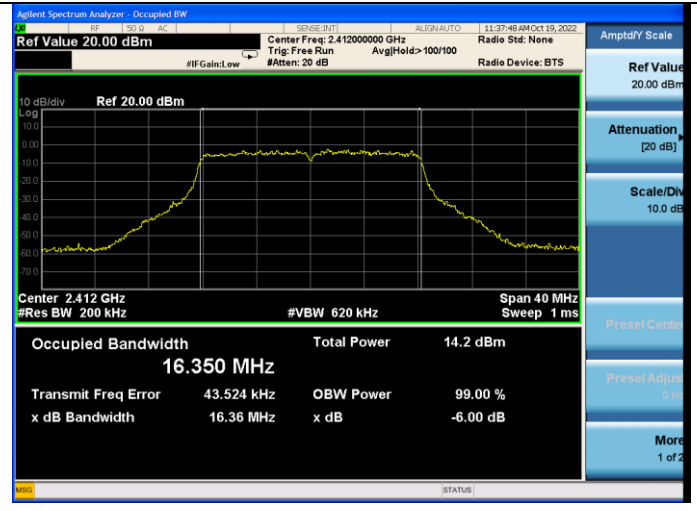
ANT1:

Test Mode: IEEE 802.11g
Test CH1: 2412MHz

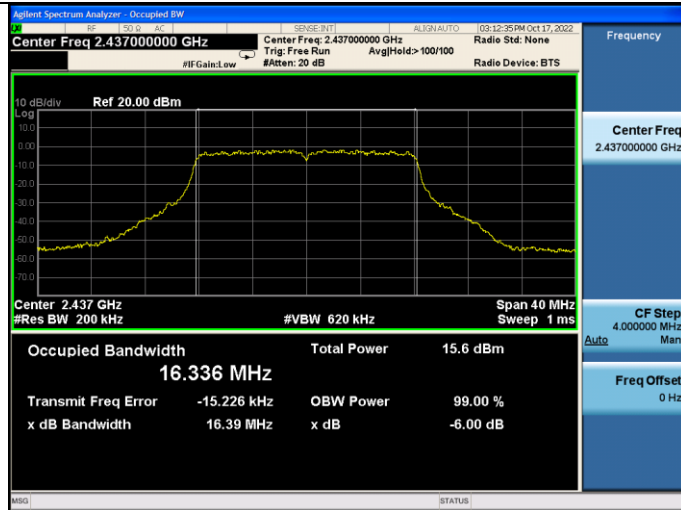


ANT2:

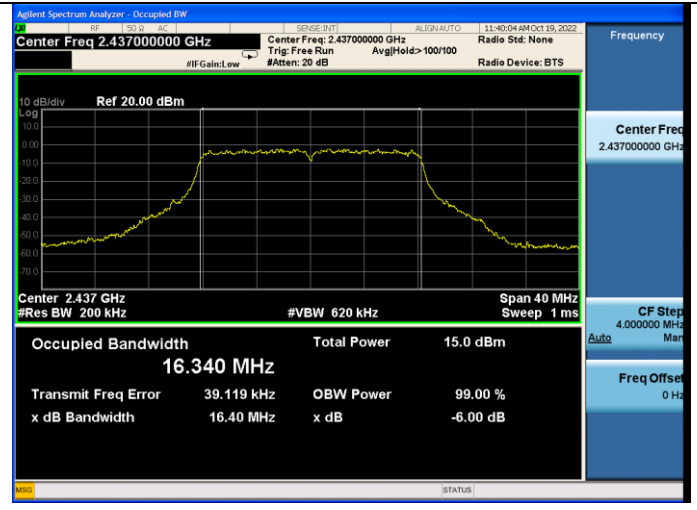
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



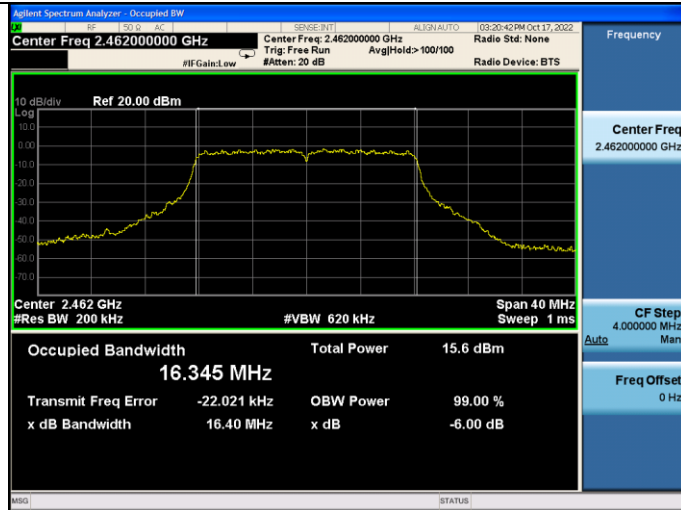
Test CH6: 2437MHz



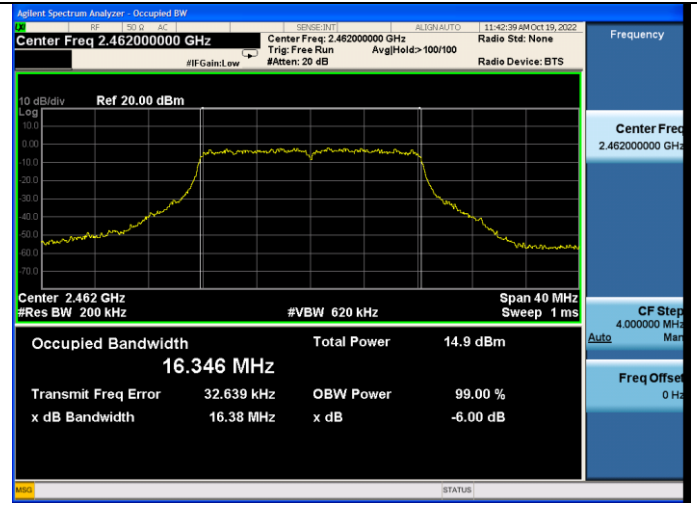
Test CH6: 2437MHz



Test CH11: 2462MHz

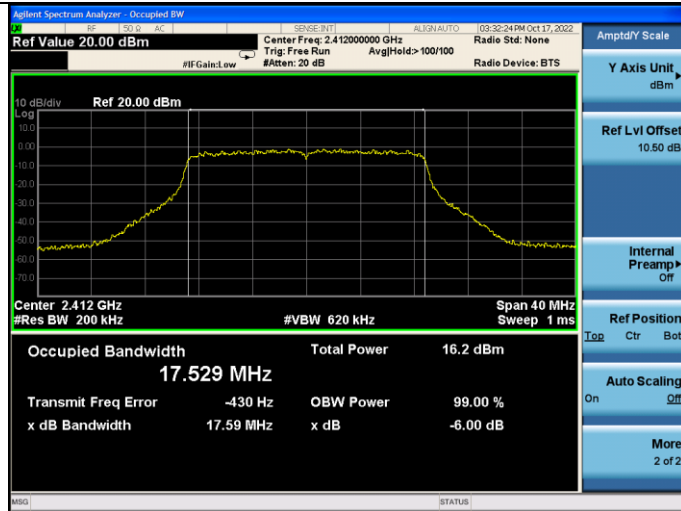


Test CH11: 2462MHz



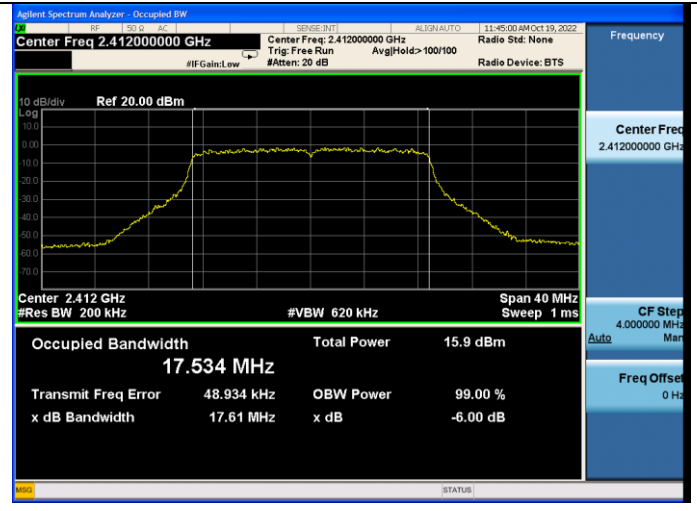
ANT1:

Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz

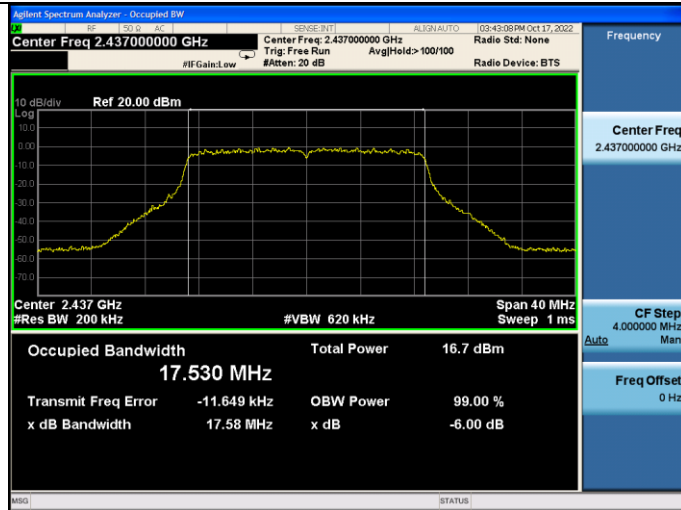


ANT2:

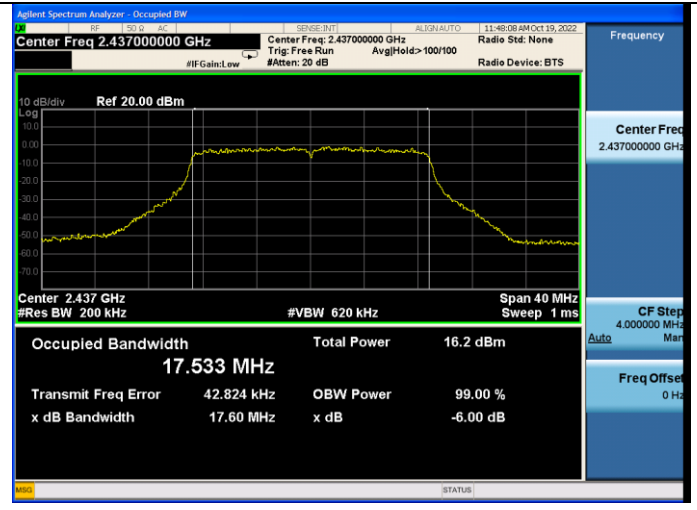
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



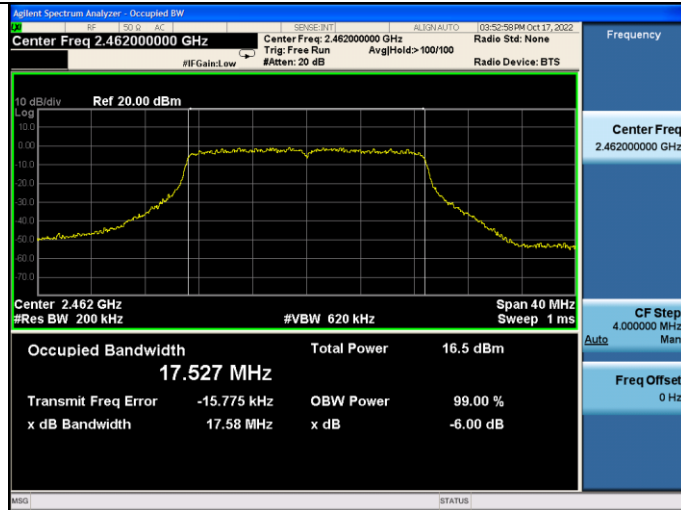
Test CH6: 2437MHz



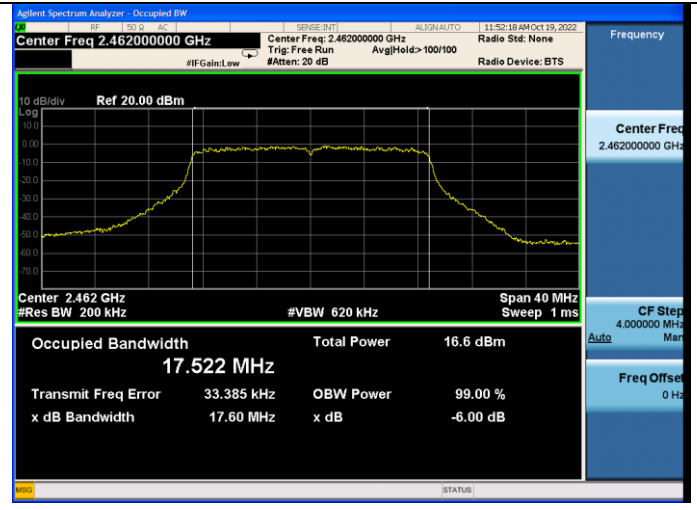
Test CH6: 2437MHz



Test CH11: 2462MHz

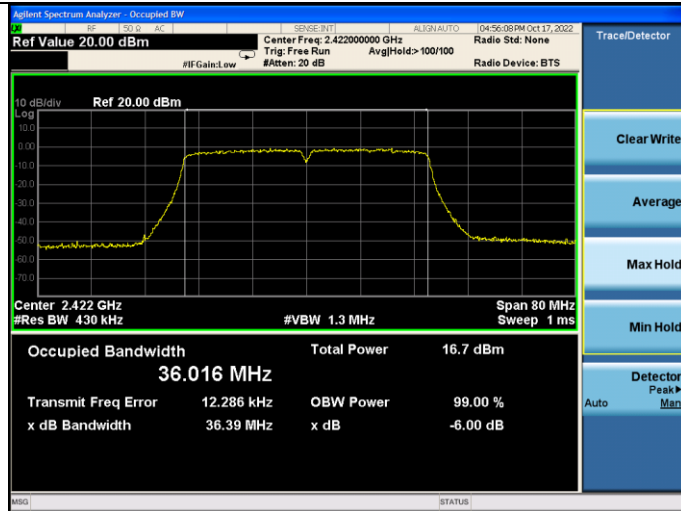


Test CH11: 2462MHz



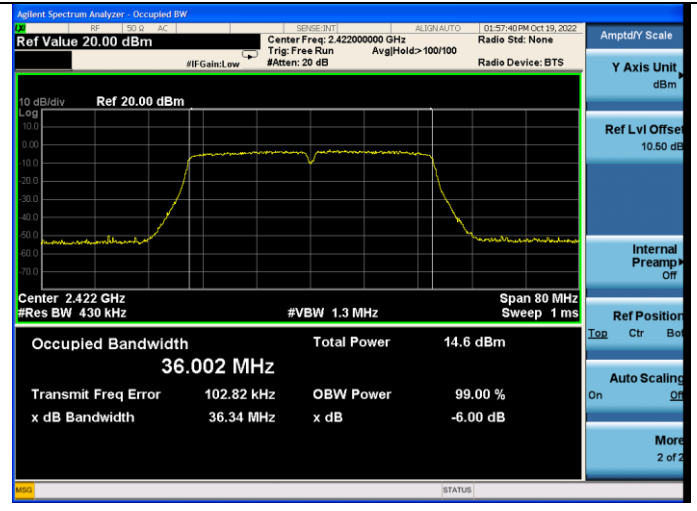
ANT1:

Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz

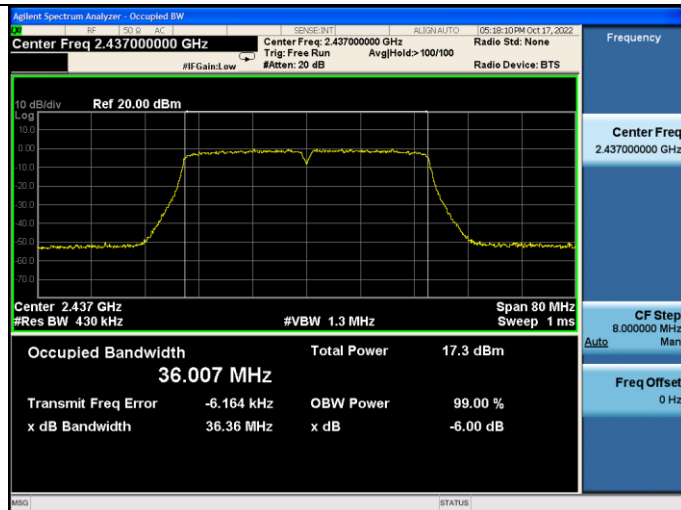


ANT2:

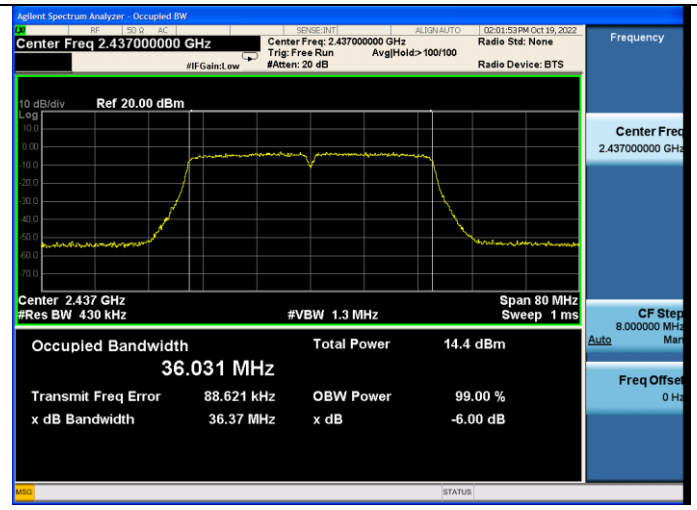
Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



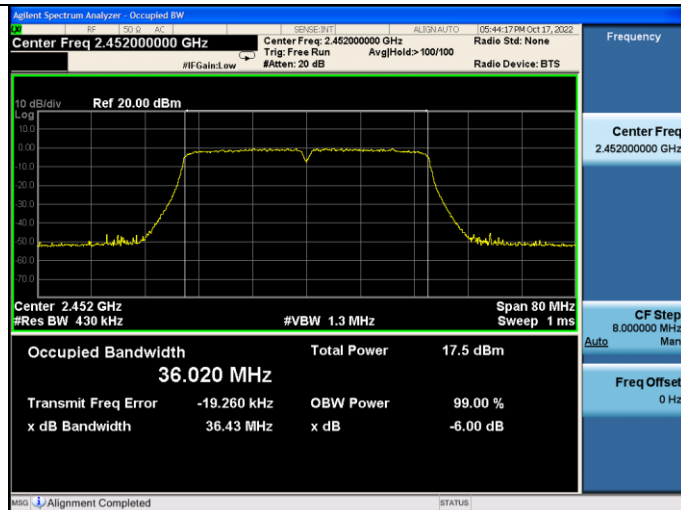
Test CH6: 2437MHz



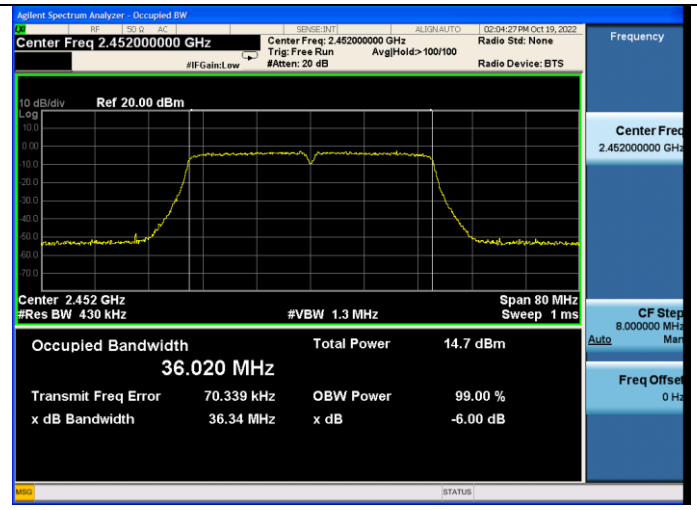
Test CH6: 2437MHz



Test CH9: 2452MHz

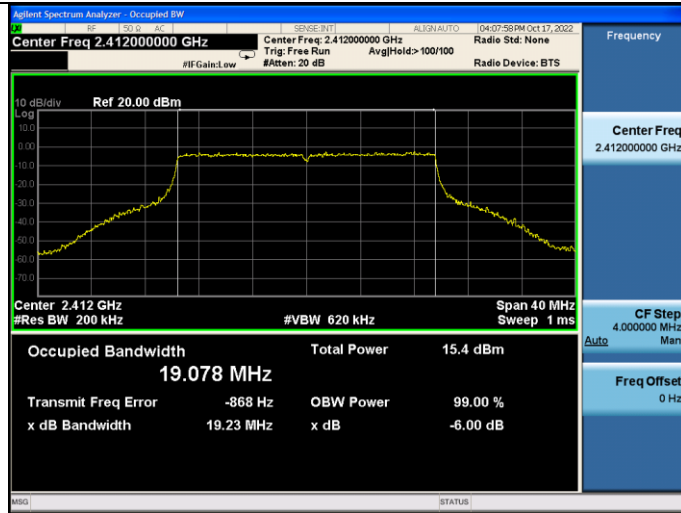


Test CH9: 2452MHz



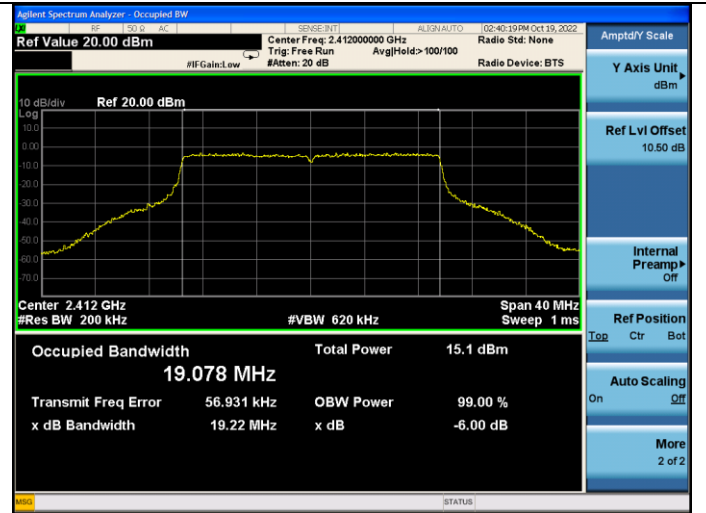
ANT1:

Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz

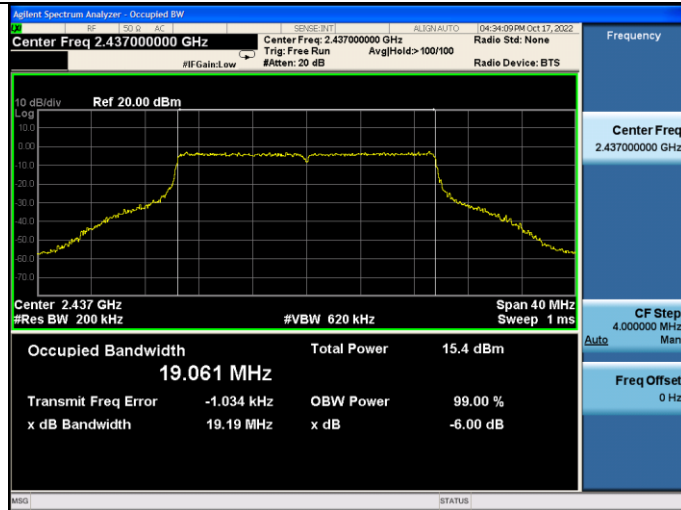


ANT2:

Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz



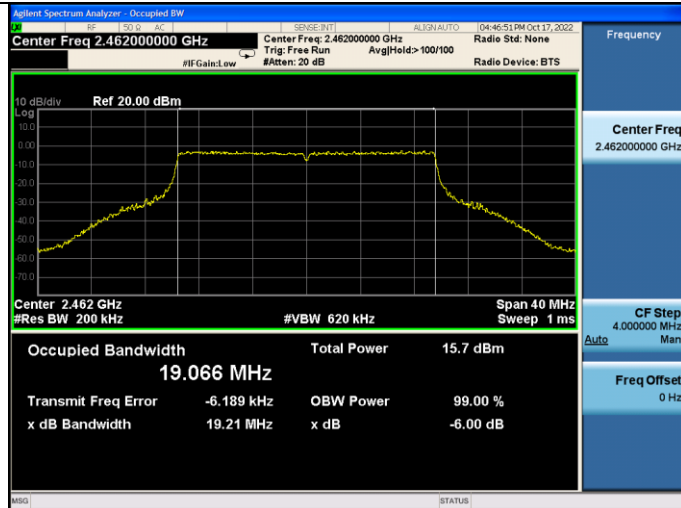
Test CH6: 2437MHz



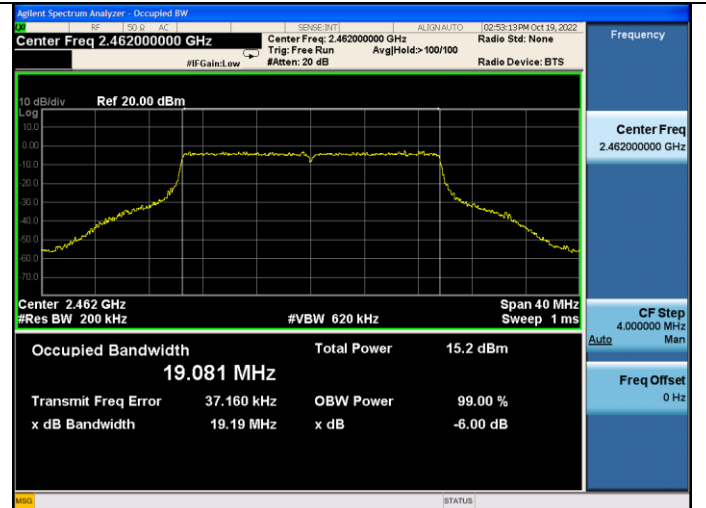
Test CH6: 2437MHz



Test CH11: 2462MHz

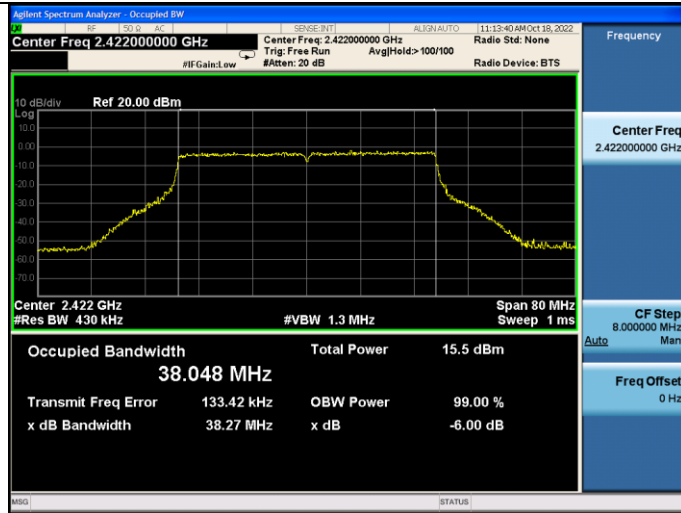


Test CH11: 2462MHz



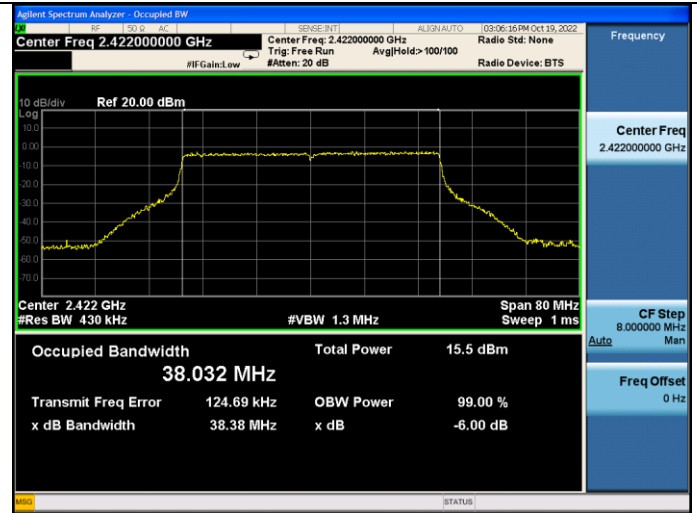
ANT1:

Test Mode: IEEE 802.11ax HE40
Test CH3: 2422MHz

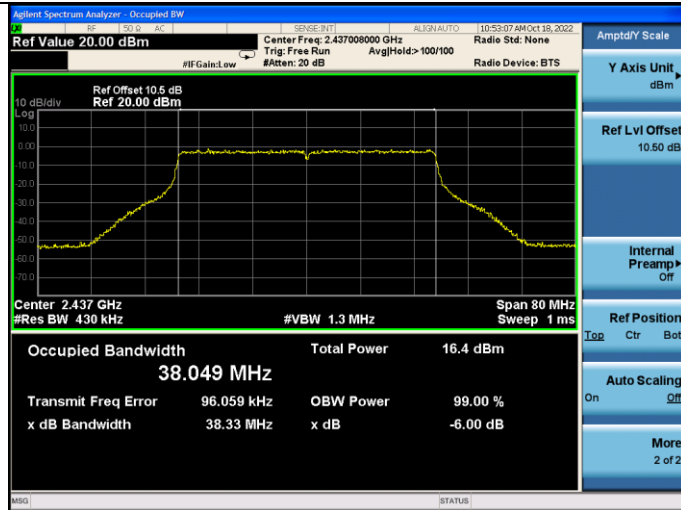


ANT2:

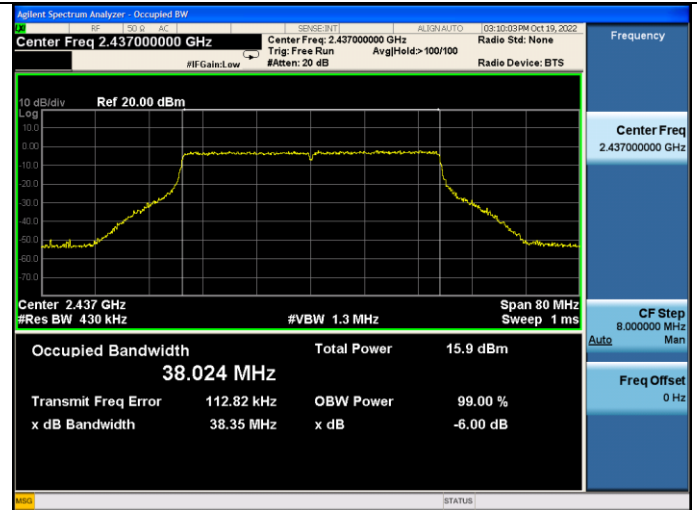
Test Mode: IEEE 802.11ax HE40
Test CH3: 2422MHz



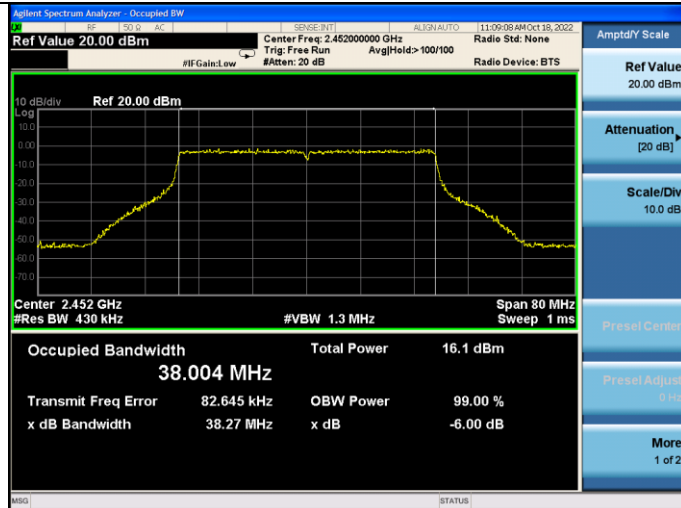
Test CH6: 2437MHz



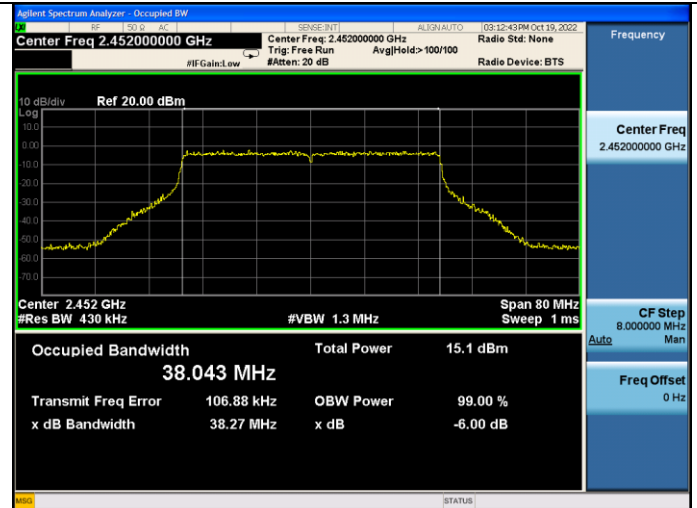
Test CH6: 2437MHz



Test CH9: 2452MHz



Test CH9: 2452MHz



8. OUTPUT POWER TEST

8.1.Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm), As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

8.2.Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, Use the test method described in ANSI C63.10 clause 11.9.2.2.2 Method AVGSA-1.
 - 1) Set span to at least 1.5 times the OBW.
 - 2) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
 - 3) Set VBW $\geq [3 \times \text{RBW}]$.
 - 4) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
 - 5) Sweep time = auto.
 - 6) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - 7) If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
 - 8) Trace average at least 100 traces in power averaging (rms) mode.
 - 9) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.3. Test Results

EUT: Display Head Unit		
M/N: DHU 1.0		
Test date: 2022-10-17~19	Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.3 ±0.6 °C

Test Mode	CH	Power Setting		Output Power(dBm)			Limit (dBm)
		ANT1	ANT2	ANT1	ANT2	Total	
11b	CH1	14	10	12.57	7.81	N/A	30
	CH6	14	10	12.55	8.34	N/A	
	CH11	14	10	12.66	8.28	N/A	
11g	CH1	10	10	8.00	7.32	N/A	30
	CH6	10	10	8.26	7.79	N/A	
	CH11	10	10	8.22	7.81	N/A	
11n HT20 (SISO)	CH1	11	11	8.53	8.31	N/A	30
	CH6	11	11	9.15	8.59	N/A	
	CH11	11	11	8.82	8.60	N/A	
11n HT20 (MIMO)	CH1	10	10	8.23	7.18	10.75	30
	CH6	10	10	8.50	7.65	11.11	
	CH11	8	8	8.46	7.65	11.08	
11n HT40 (SISO)	CH3	11	11	8.96	8.84	N/A	30
	CH6	11	11	9.52	9.10	N/A	
	CH9	11	11	9.36	9.32	N/A	
11n HT40 (MIMO)	CH3	8	8	7.14	5.69	9.49	30
	CH6	8	8	7.53	6.13	9.90	
	CH9	9	9	7.40	6.06	9.79	
11ax HE20 (SISO)	CH1	8	8	6.41	5.81	N/A	30
	CH6	8	8	6.69	6.32	N/A	
	CH11	8	8	6.65	6.29	N/A	
11ax HE20 (MIMO)	CH1	9	9	7.23	5.39	9.42	30
	CH6	9	9	7.64	5.84	9.84	
	CH11	9	9	7.45	5.85	9.73	
11ax HE40 (SISO)	CH3	8	8	6.39	5.92	N/A	30
	CH6	8	8	6.67	6.30	N/A	
	CH9	8	8	6.64	6.18	N/A	
11ax HE40 (MIMO)	CH3	9	9	7.22	5.60	9.50	30
	CH6	9	9	7.61	5.99	9.89	
	CH9	9	9	7.46	5.88	9.75	

Conclusion:Pass

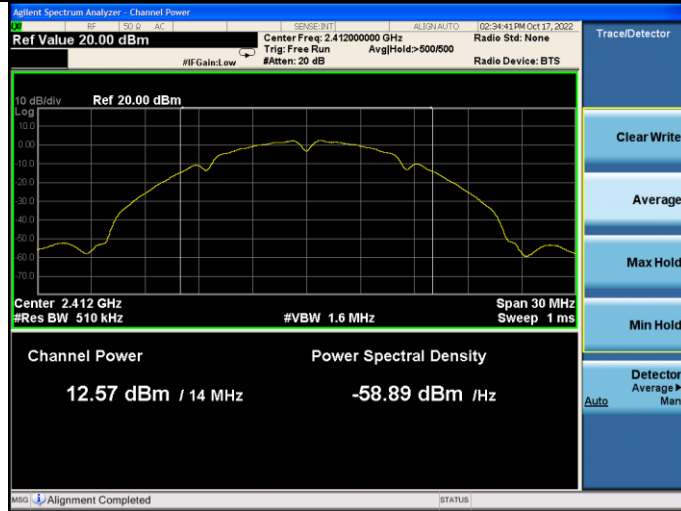
- Note: 1. For 11n HT20/11n HT40 Mode
 Directional Gain= $10 \log[(10^{2.4/10}) + (10^{1.4/10})/2]$ dBm = 1.9 dBm < 6 dBm.
2. The transmit signals are uncorrelated.

SISO

ANT1:

Test Mode: IEEE 802.11b

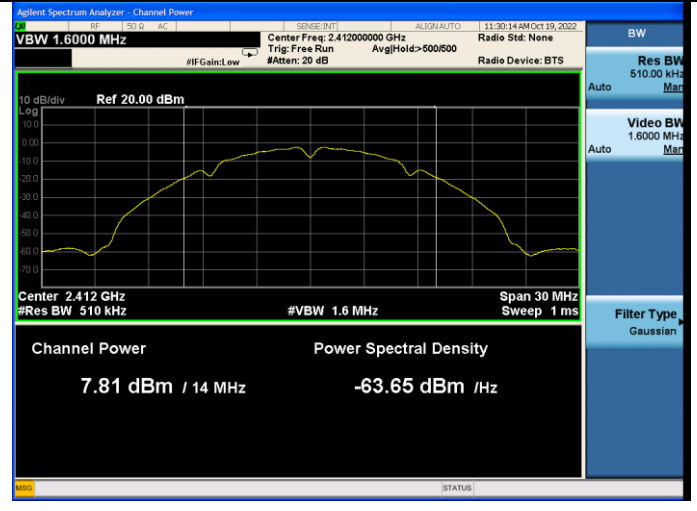
Test CH1: 2412MHz



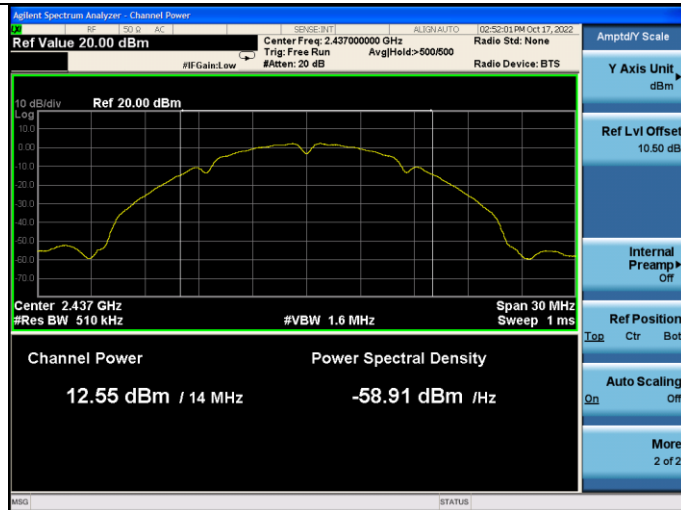
ANT2:

Test Mode: IEEE 802.11b

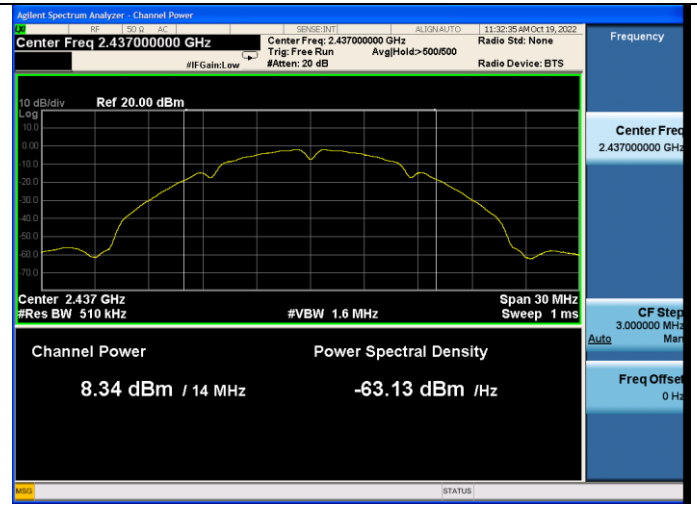
Test CH1: 2412MHz



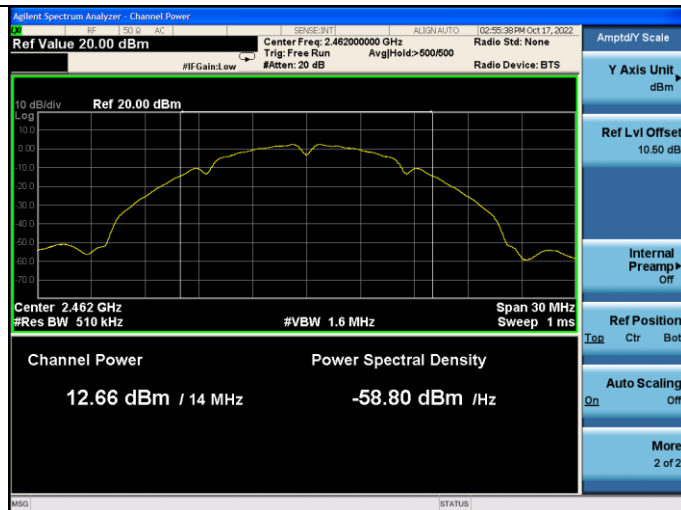
Test CH6: 2437MHz



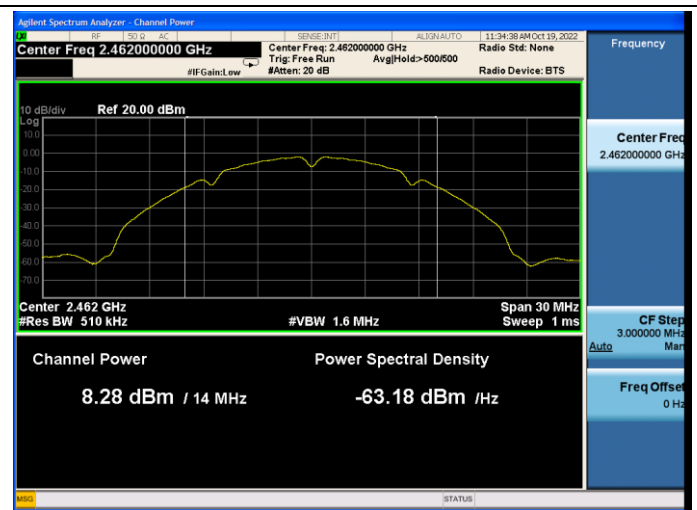
Test CH6: 2437MHz



Test CH11: 2462MHz

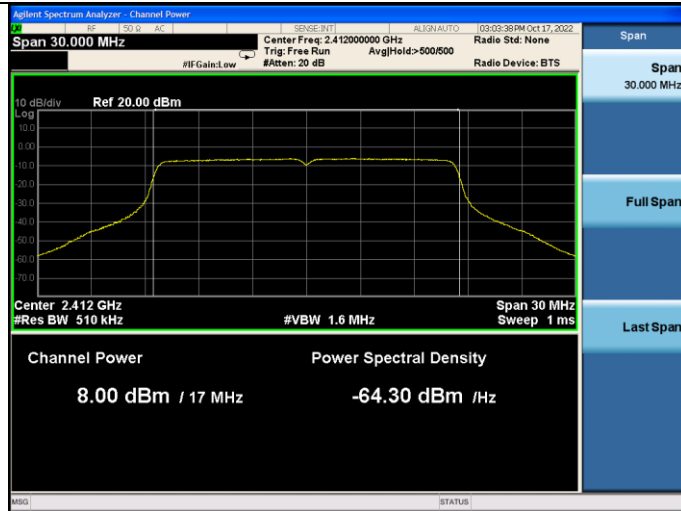


Test CH11: 2462MHz



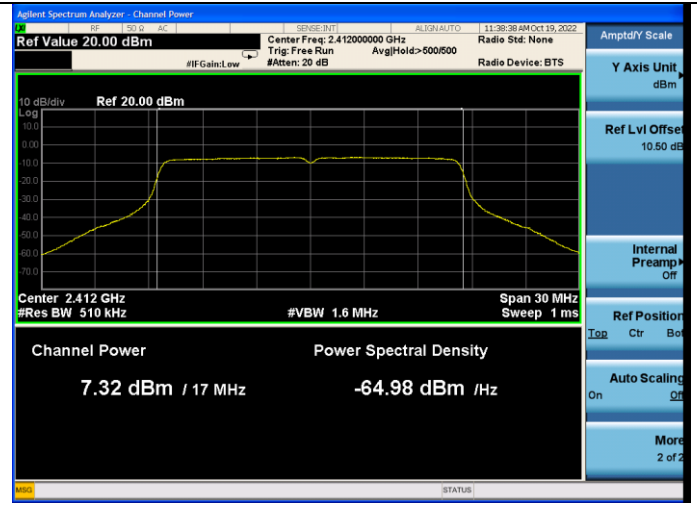
ANT1:

Test Mode: IEEE 802.11g
Test CH1: 2412MHz

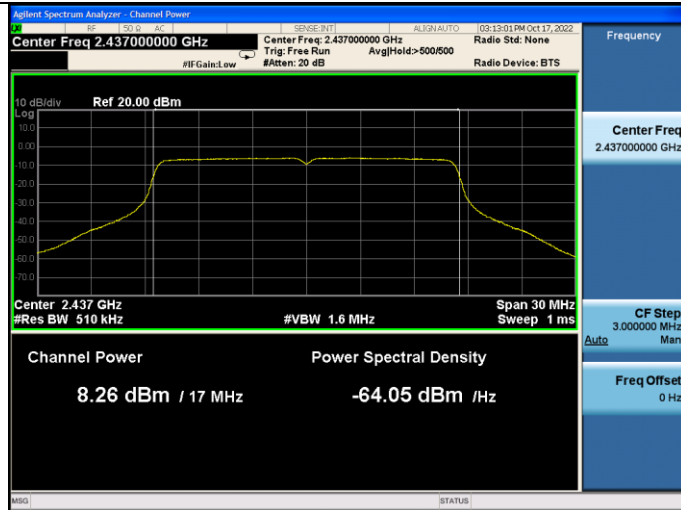


ANT2:

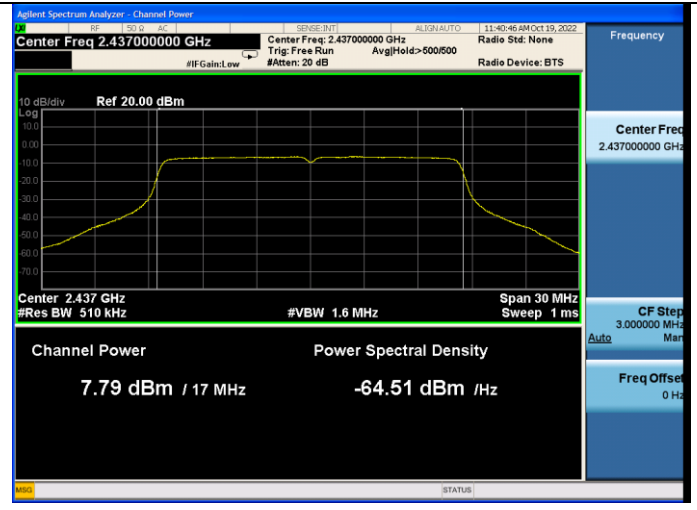
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



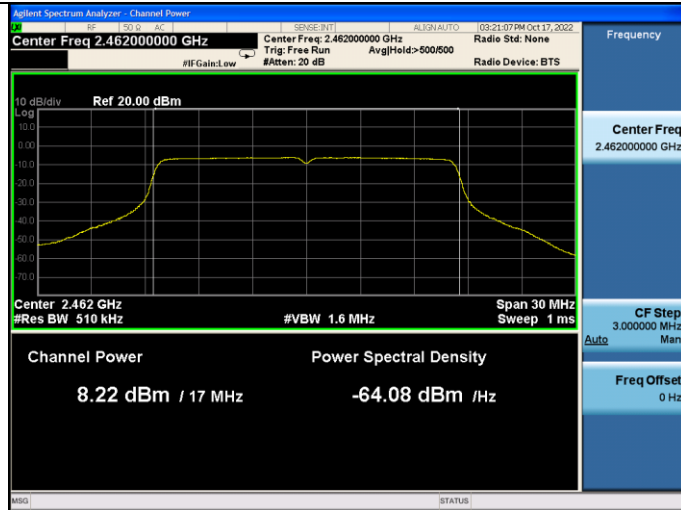
Test CH6: 2437MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH11: 2462MHz

