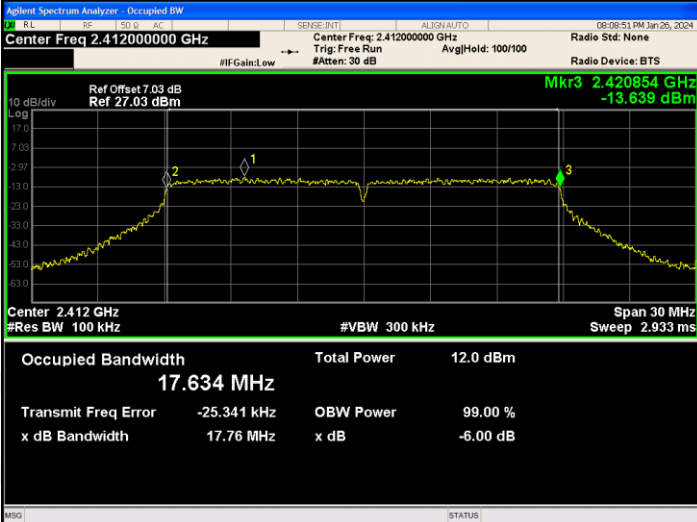
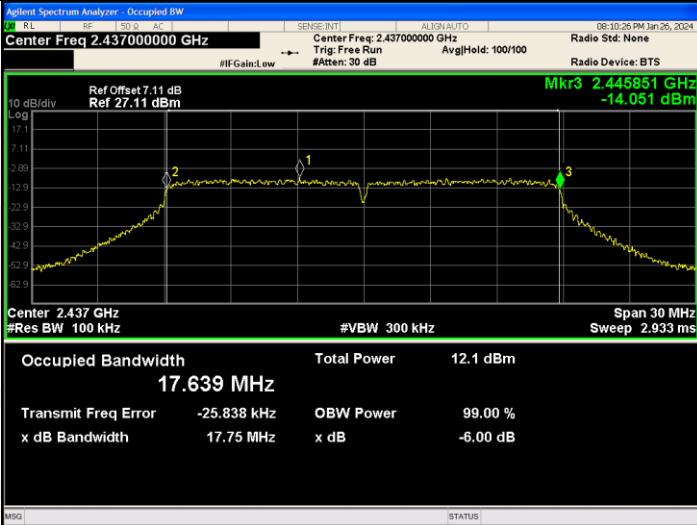
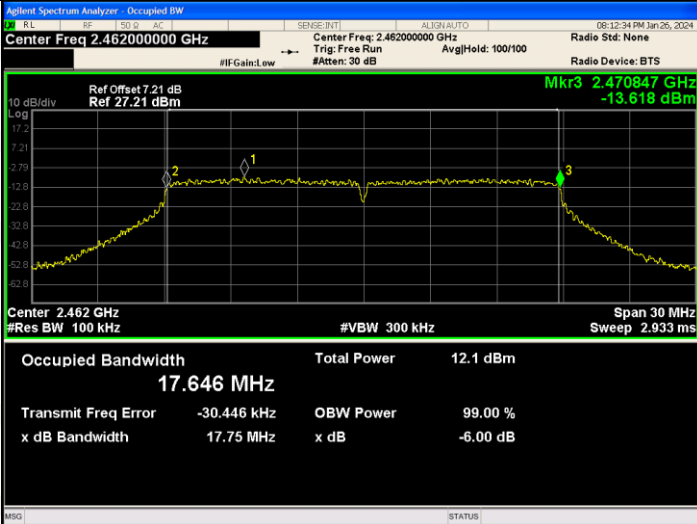
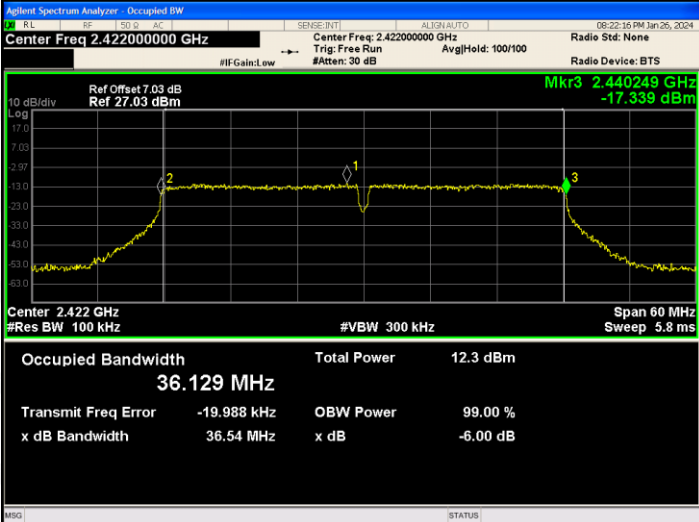
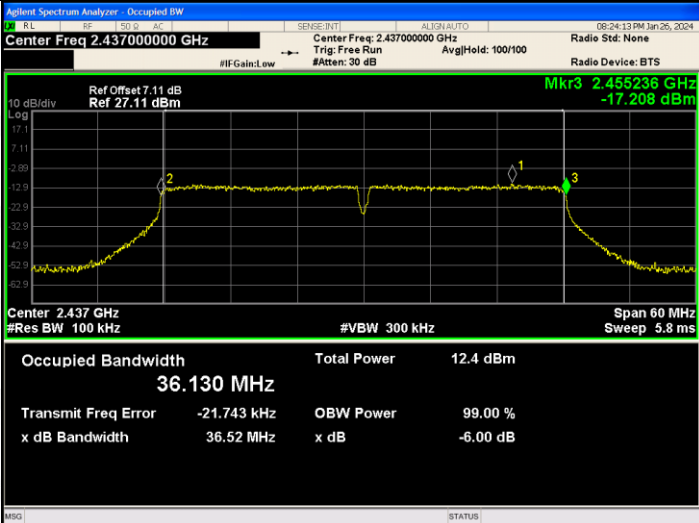
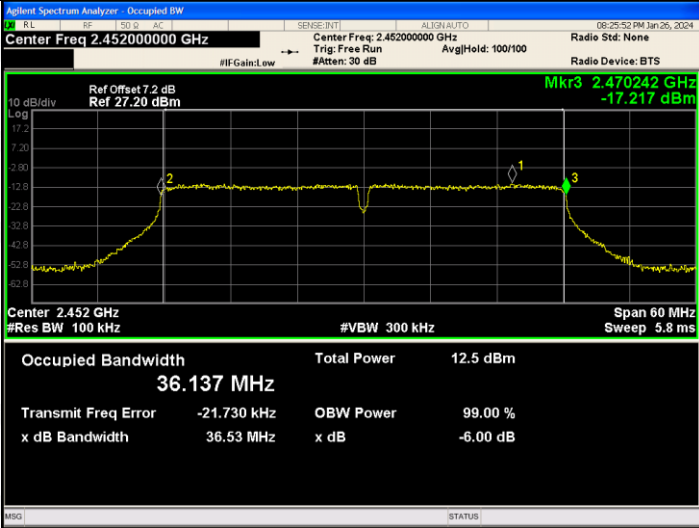
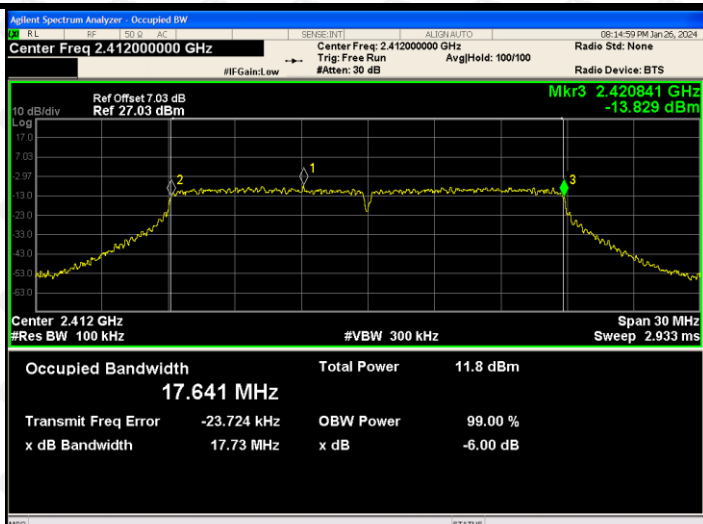


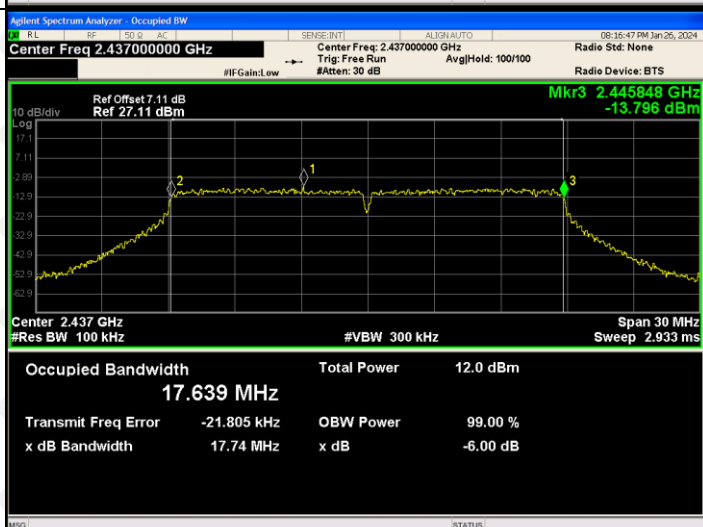
802.11n(HT20)/LC H	
802.11n(HT20)/MC H	
802.11n(HT20)/HC H	

802.11n(HT40)/LC H		
802.11n(HT40)/MC H		
802.11n(HT40)/HC H		

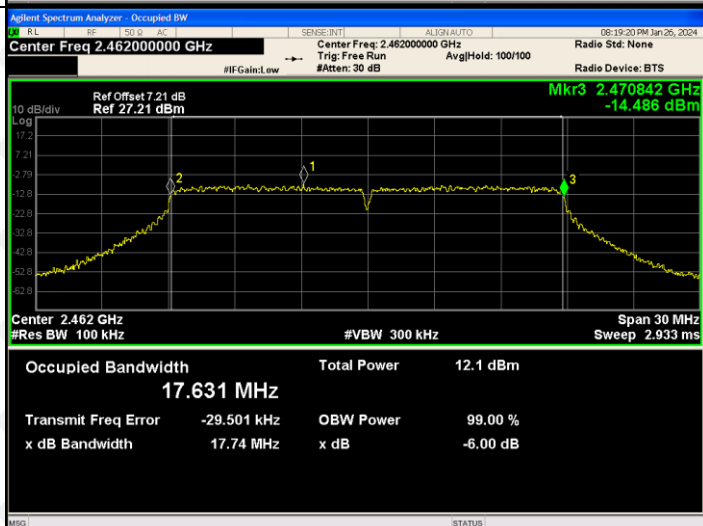
802.11ax(HT20)/LC
H



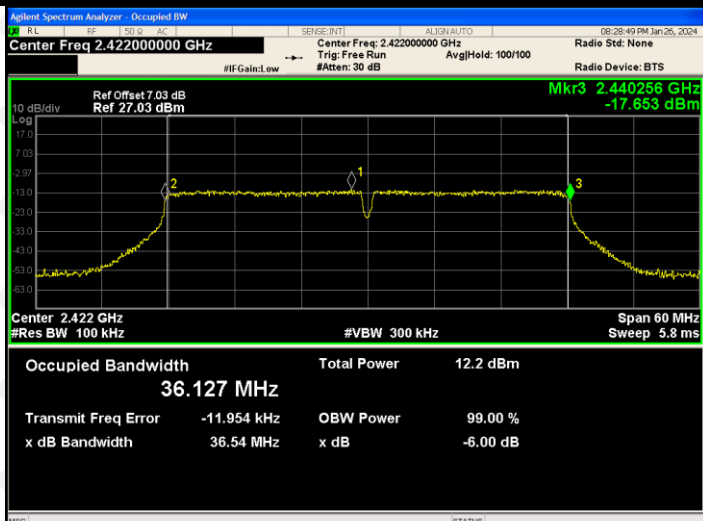
802.11ax(HT20)/M
CH



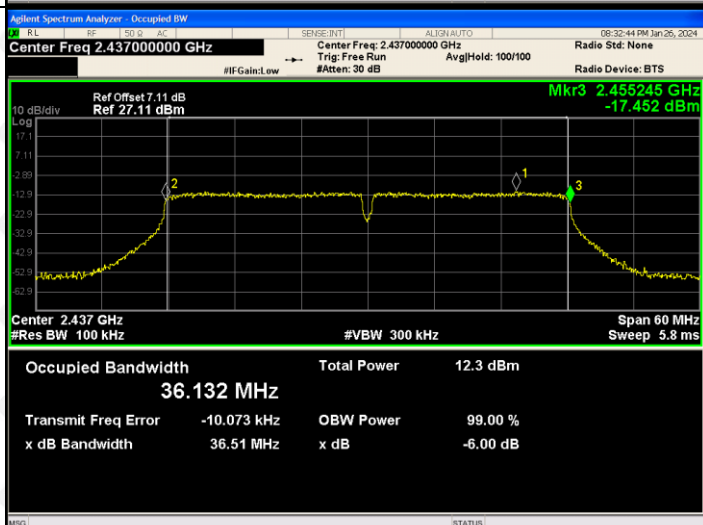
802.11ax(HT20)/H
CH



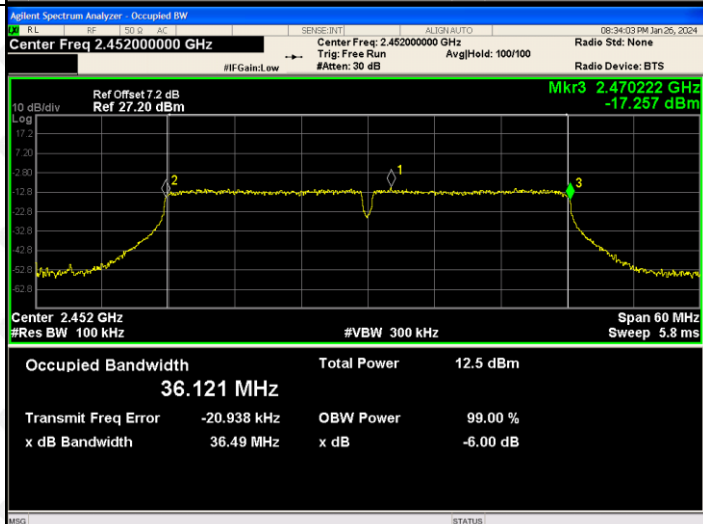
802.11ax(HT40)/LC
H



802.11ax(HT40)/M
CH

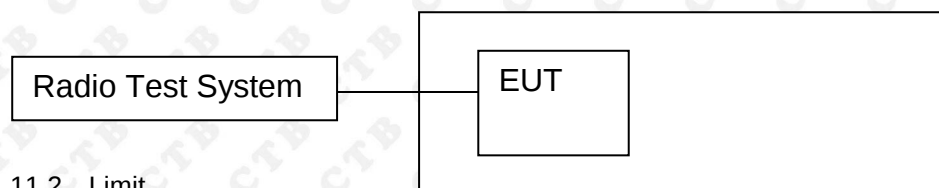


802.11ax(HT40)/H
CH



11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

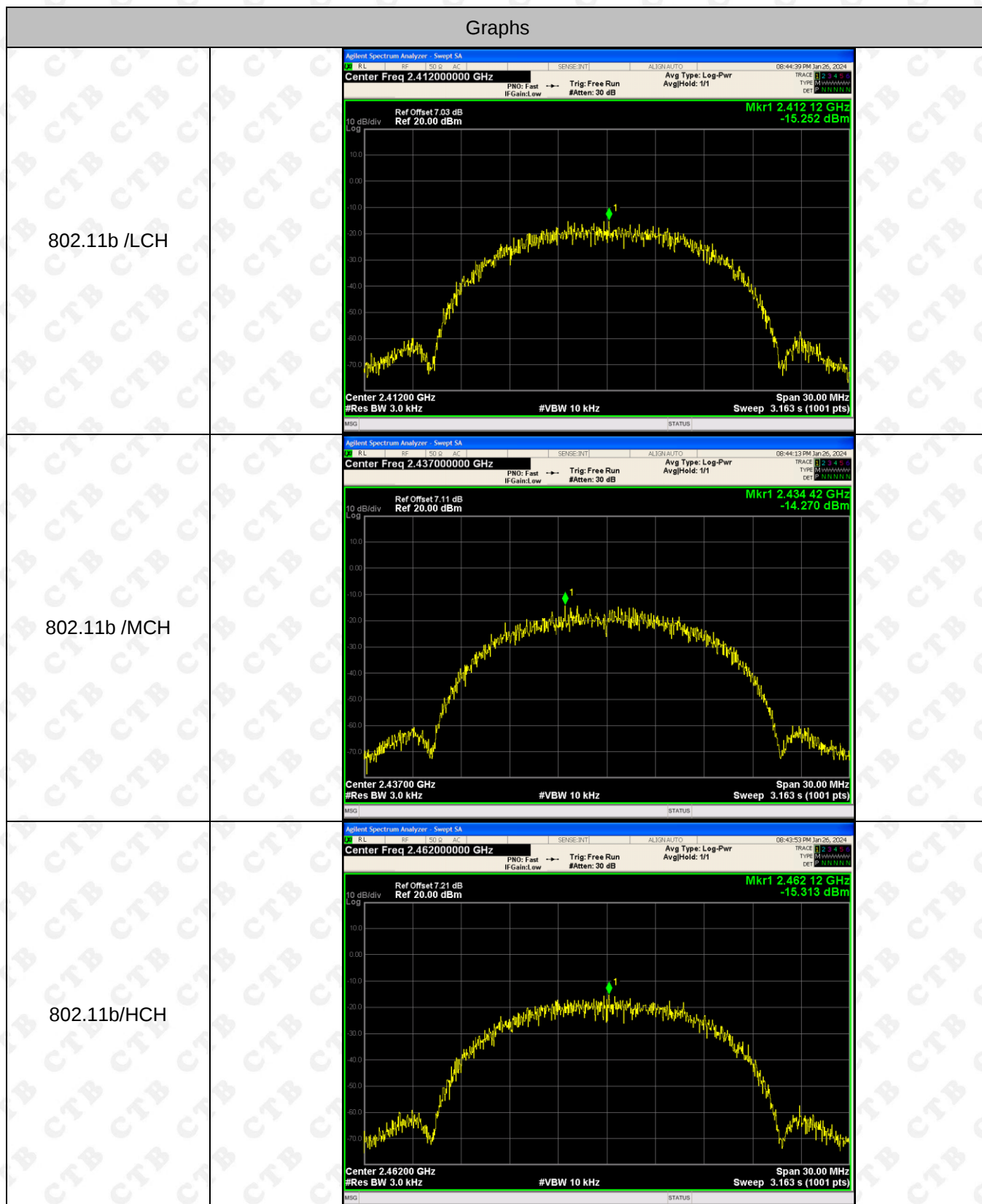
11.3 Test procedure

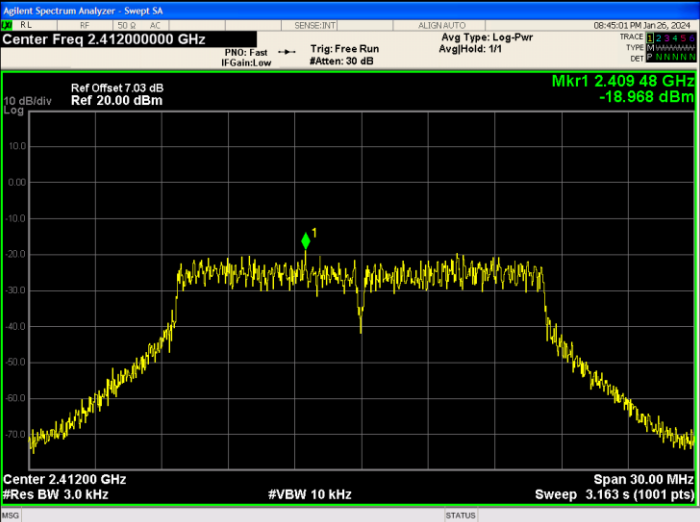
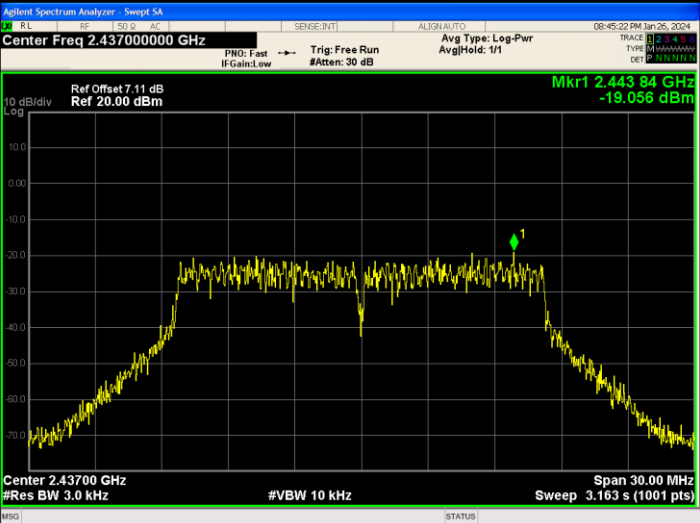
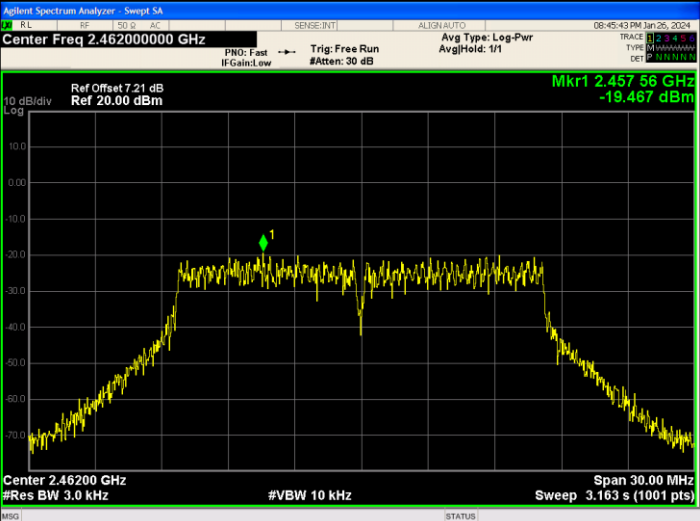
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = PEAK.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

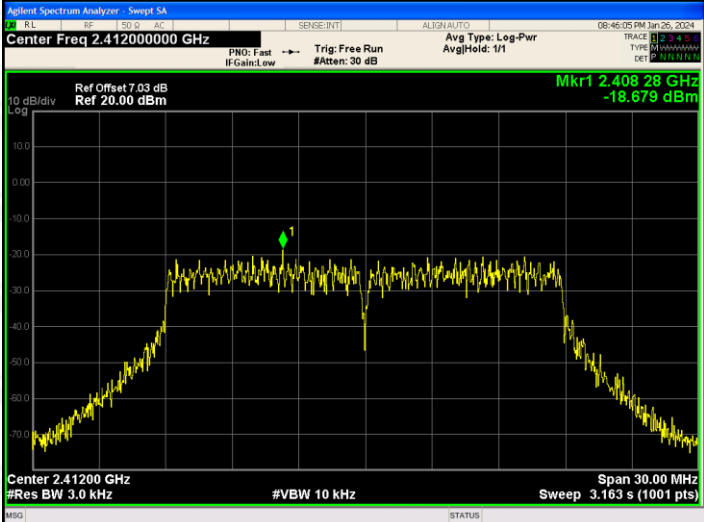
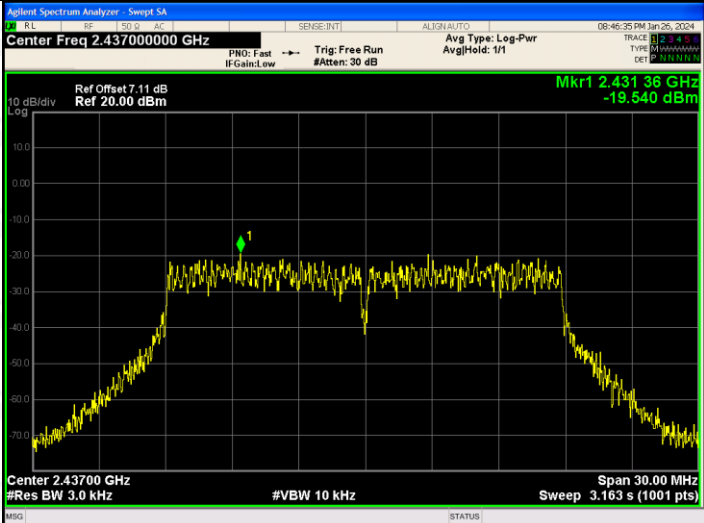
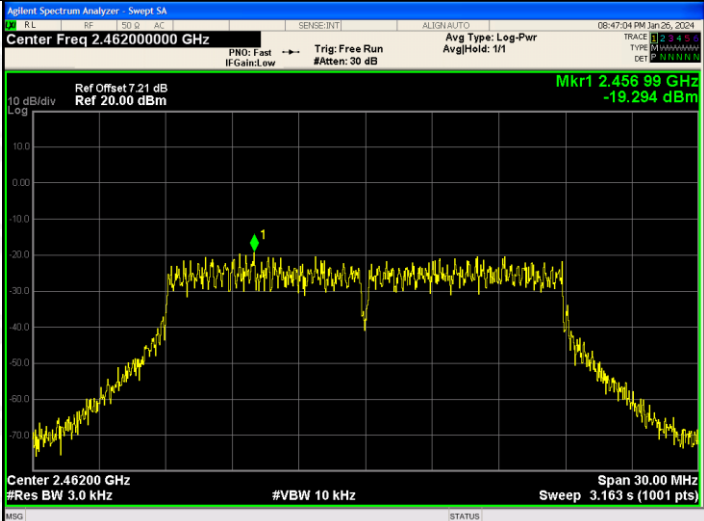
11.4 Test Result

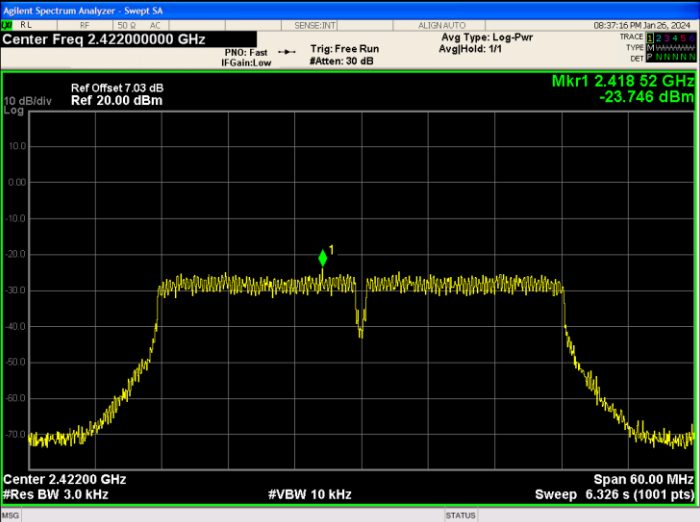
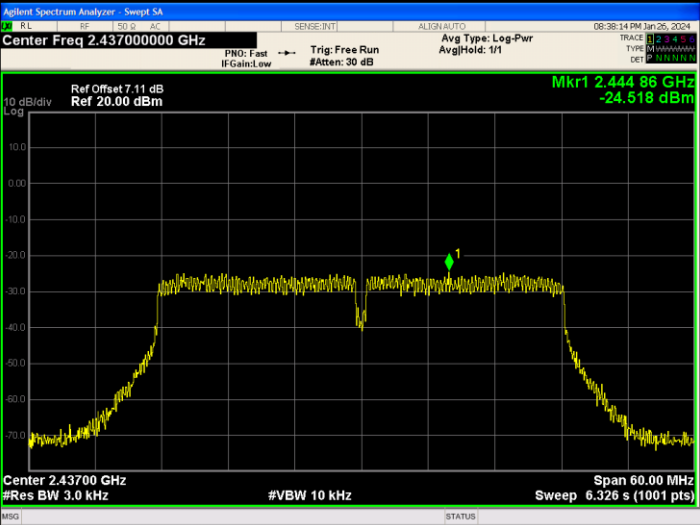
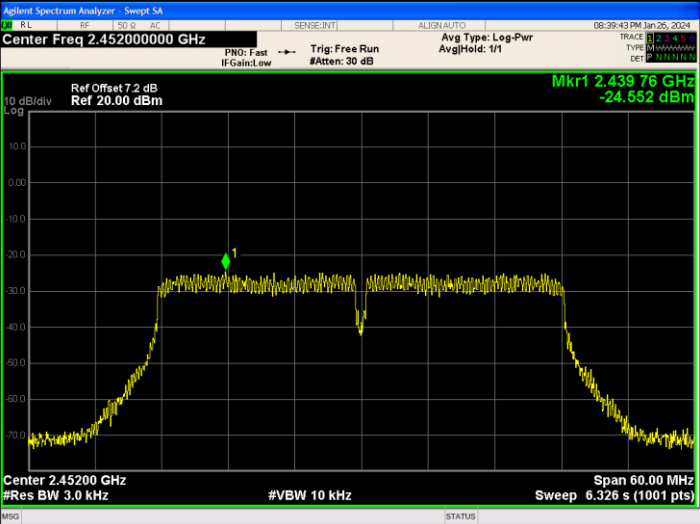
Mode	Channel.	Power Spectral Density [dBm /3KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-15.252	8	PASS
	MCH	-14.27	8	PASS
	HCH	-15.313	8	PASS
802.11g	LCH	-18.968	8	PASS
	MCH	-19.056	8	PASS
	HCH	-19.467	8	PASS
802.11n(H T20)	LCH	-18.679	8	PASS
	MCH	-19.54	8	PASS
	HCH	-19.294	8	PASS
802.11n(H T40)	LCH	-23.746	8	PASS
	MCH	-24.518	8	PASS
	HCH	-24.552	8	PASS
802.11ax(HT20)	LCH	-19.782	8	PASS
	MCH	-19.29	8	PASS
	HCH	-18.413	8	PASS
802.11ax(HT40)	LCH	-22.916	8	PASS
	MCH	-24.214	8	PASS
	HCH	-23.7	8	PASS

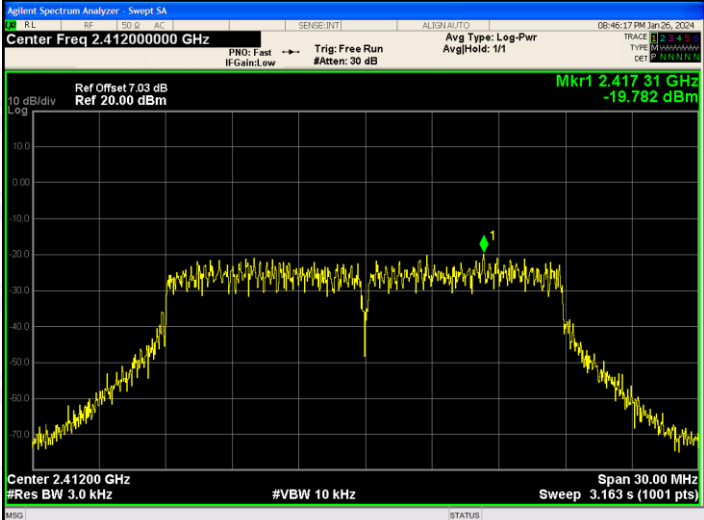
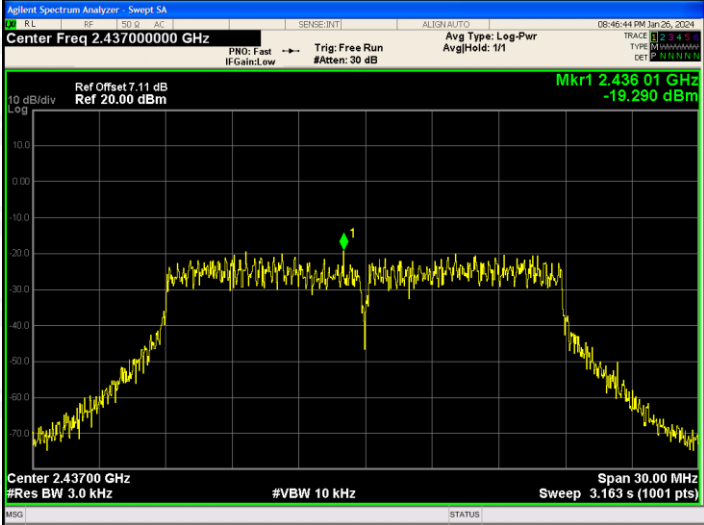
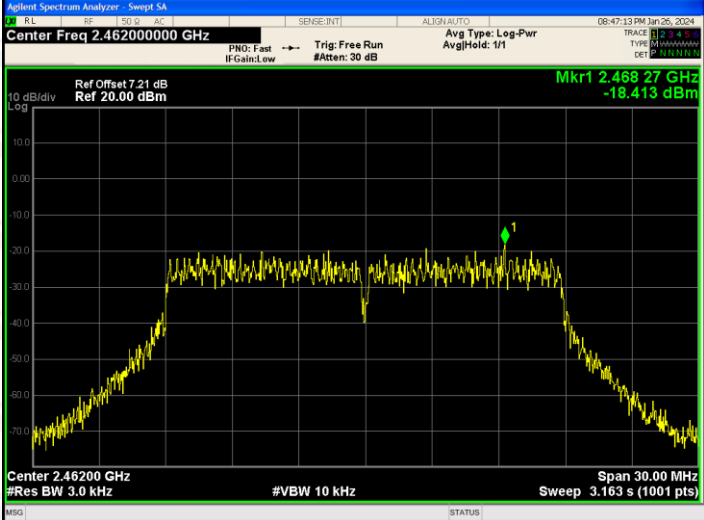
Test Graph



802.11g/LCH	
802.11g/MCH	
802.11g/HCH	

802.11n(HT20)/LCH	
802.11n(HT20)/MCH	
802.11n(HT20)/HCH	

802.11n(HT40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.422000000 GHz Ref Offset 7.03 dB Ref 20.00 dBm Mkr1 2.418 52 GHz -23.746 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.437000000 GHz Ref Offset 7.11 dB Ref 20.00 dBm Mkr1 2.444 86 GHz -24.518 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.452000000 GHz Ref Offset 7.2 dB Ref 20.00 dBm Mkr1 2.439 76 GHz -24.552 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

802.11ax(HT20)/LC H	
802.11ax(HT20)/MC H	
802.11ax(HT20)/HC H	

802.11ax(HT40)/LC H	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.03 dB Ref 20.00 dBm Mkr1 2.418 52 GHz -22.916 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/MC H	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.11 dB Ref 20.00 dBm Mkr1 2.444 78 GHz -24.214 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 54.77 MHz Sweep 5.774 s (1001 pts)
802.11ax(HT40)/HC H	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.2 dB Ref 20.00 dBm Mkr1 2.468 50 GHz -23.700 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

12. ANTENNA REQUIREMENT

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

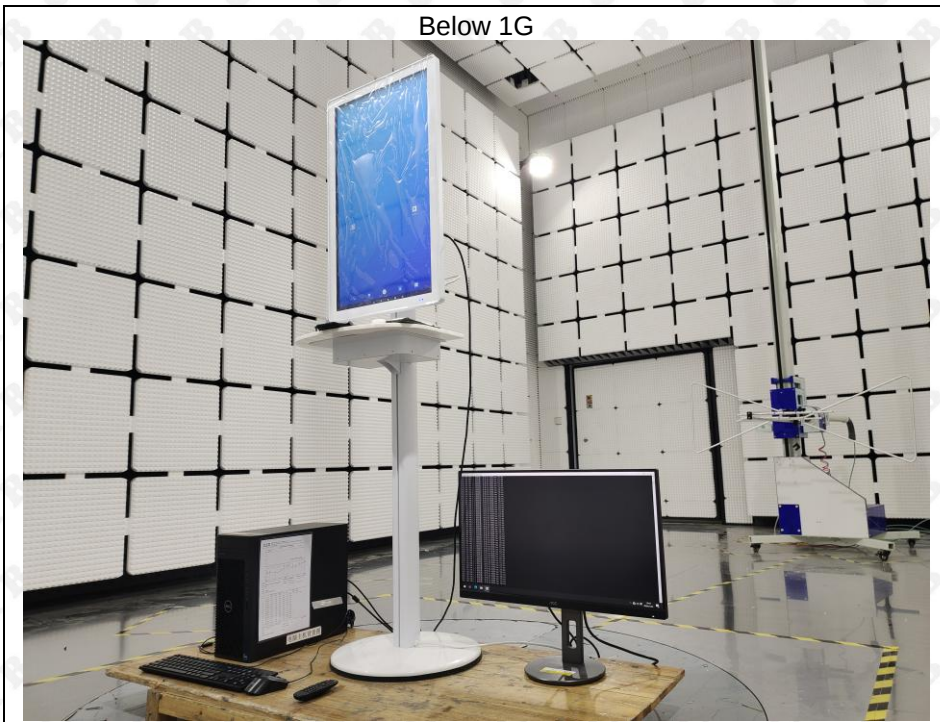
EUT Antenna:

The antenna is Rod antenna and no consideration of replacement. The best case gain of the antenna is 3.05dBi

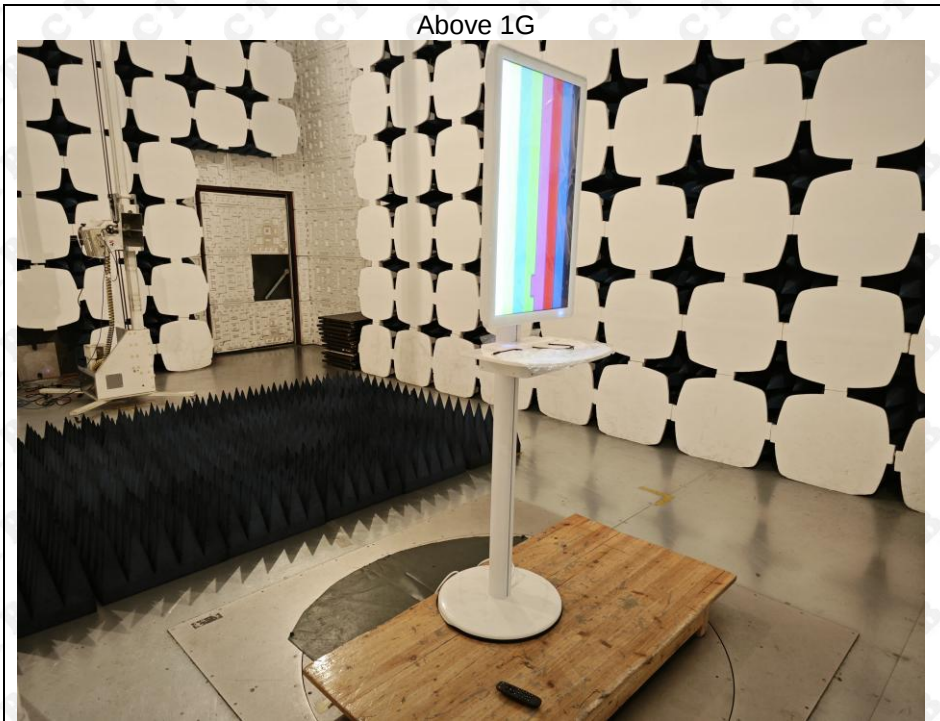
13. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

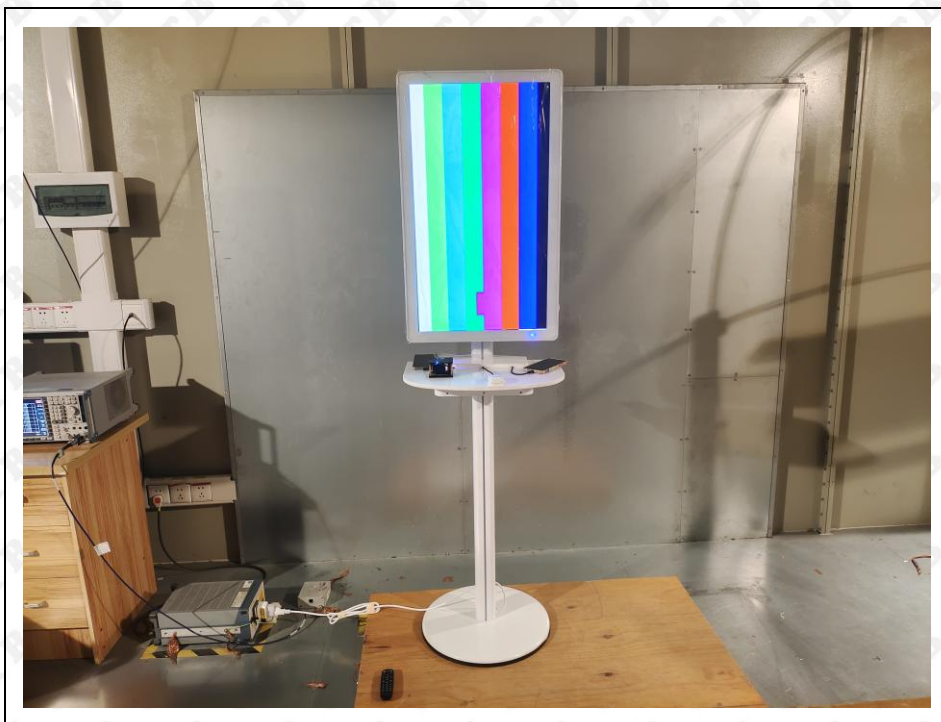
Below 1G



Above 1G



Conducted Emission



***** END OF REPORT *****