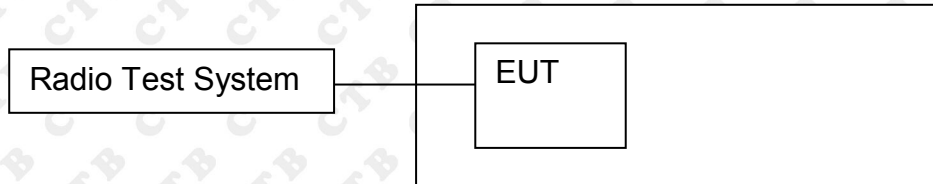


10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

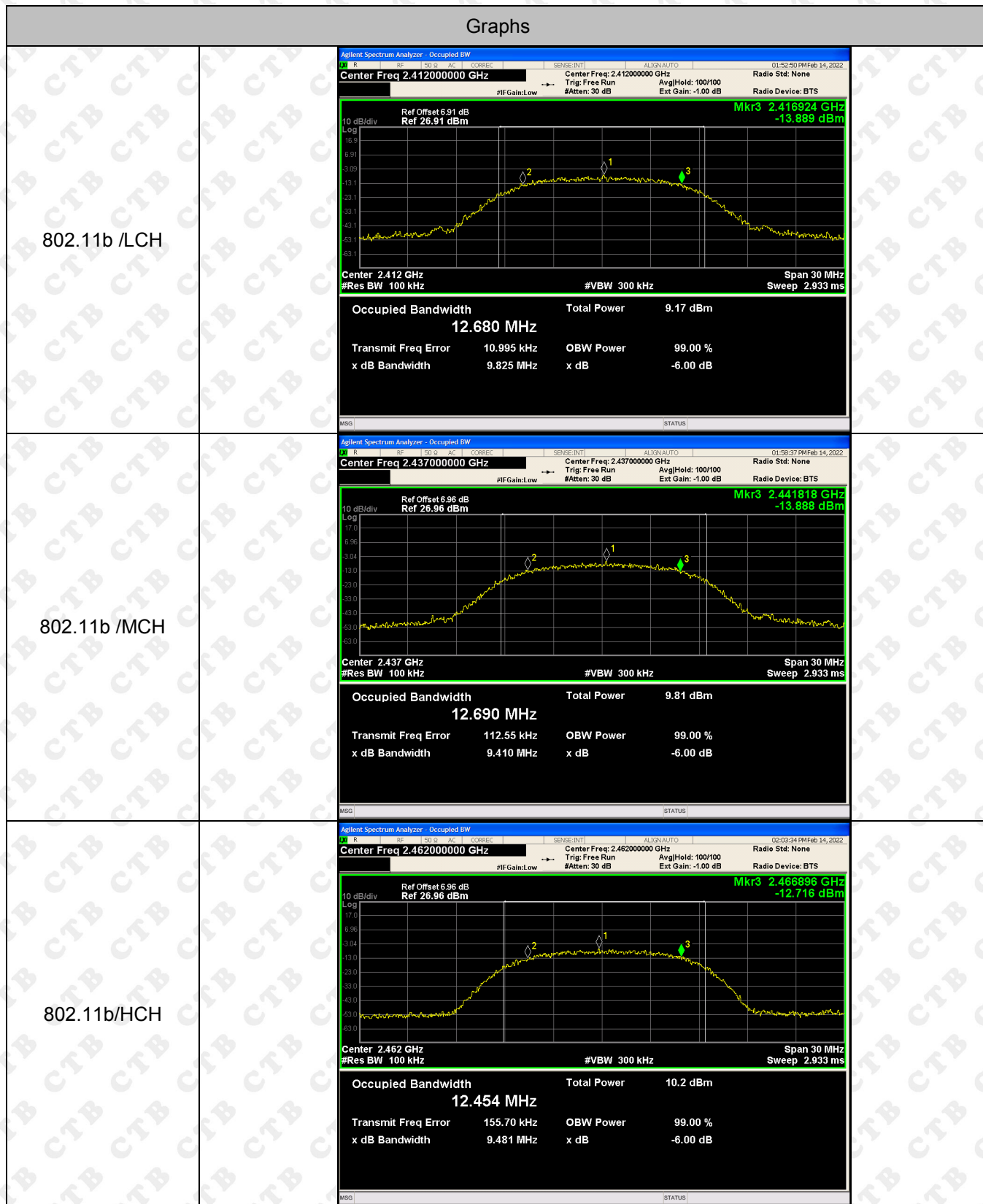
10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

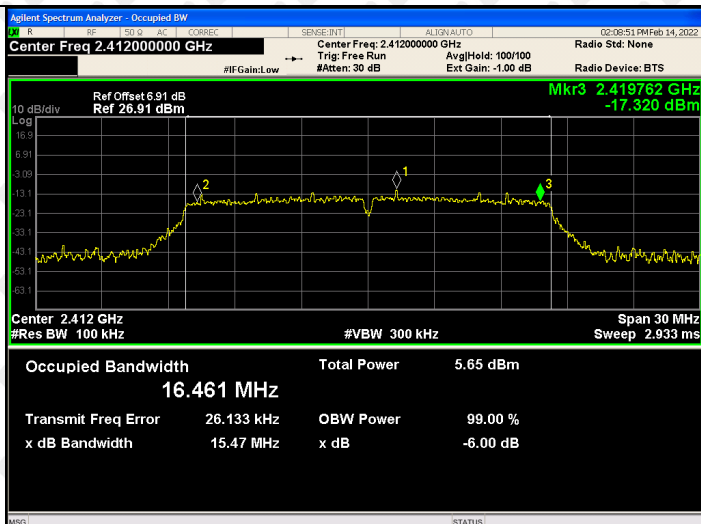
10.4 Test Result

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	9.825	500	PASS
	MCH	9.41	500	PASS
	HCH	9.481	500	PASS
802.11g	LCH	15.472	500	PASS
	MCH	15.706	500	PASS
	HCH	16.285	500	PASS
802.11n(HT20)	LCH	17.552	500	PASS
	MCH	16.333	500	PASS
	HCH	17.361	500	PASS
802.11n(HT40)	LCH	35.371	500	PASS
	MCH	35.348	500	PASS
	HCH	32.976	500	PASS

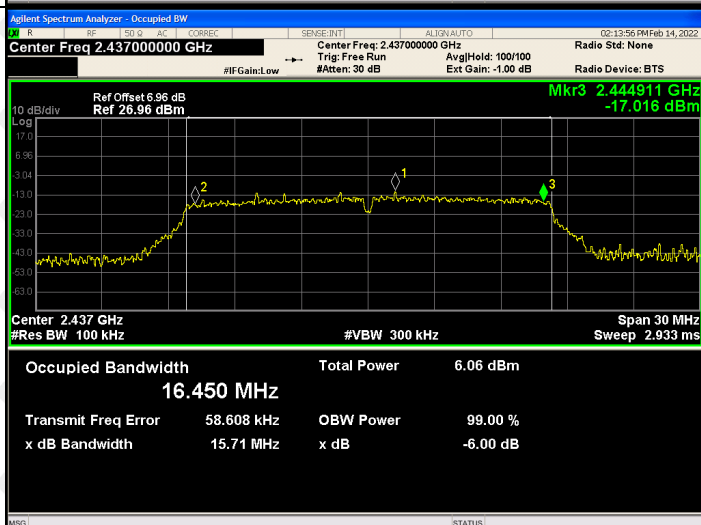
Test Graph:



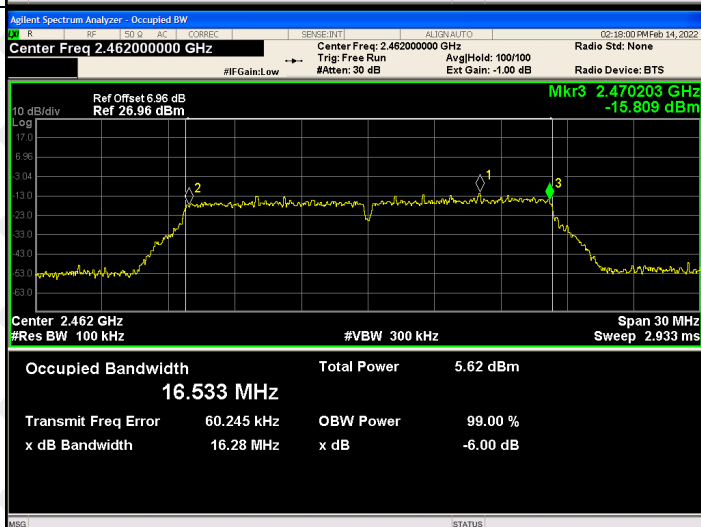
802.11g/LCH

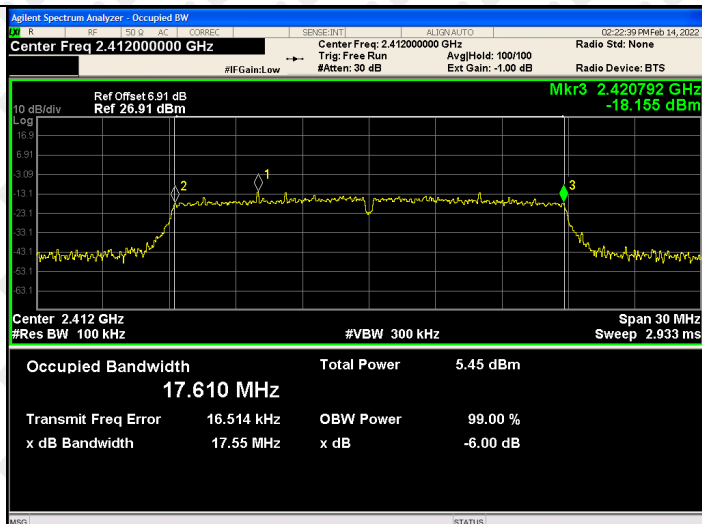
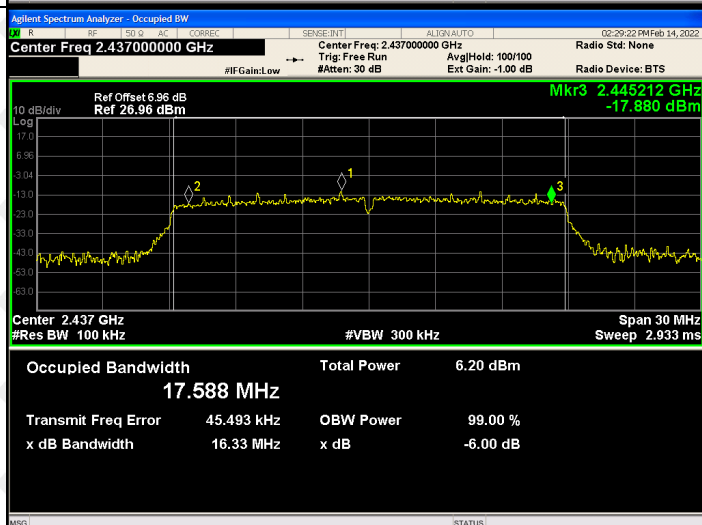
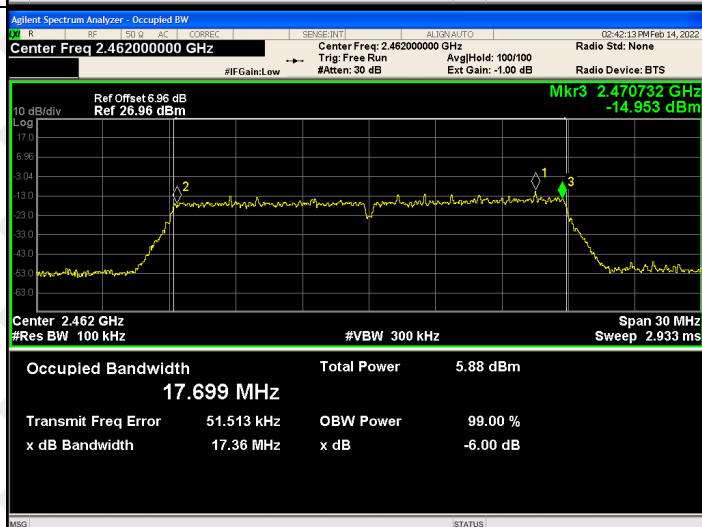


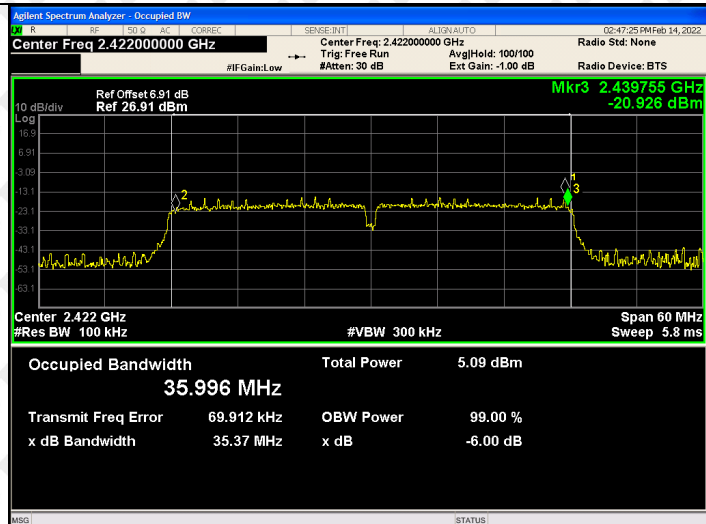
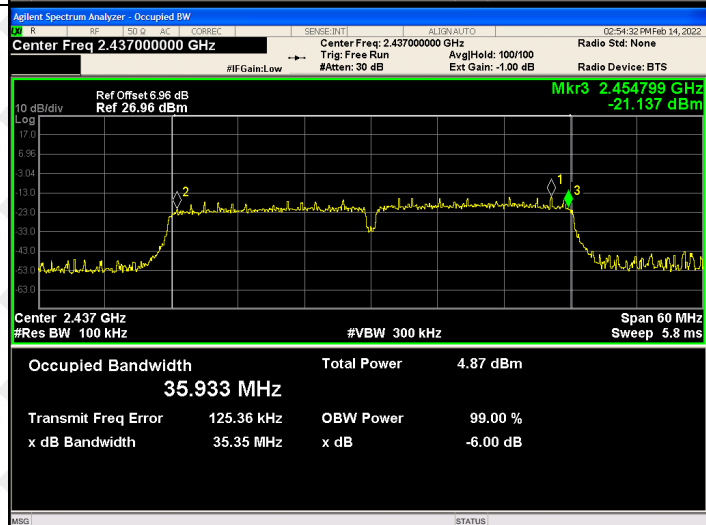
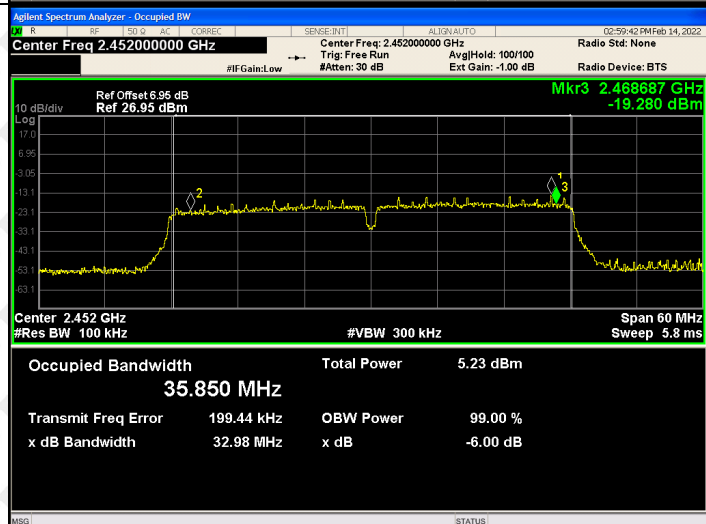
802.11g/MCH



802.11g/HCH

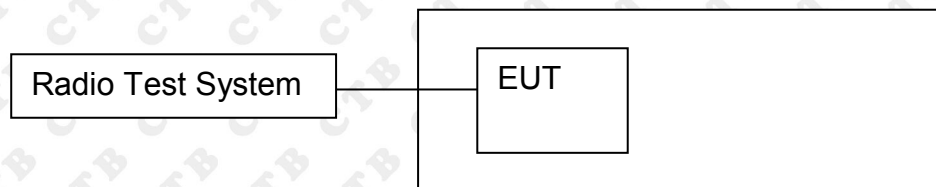


802.11n(HT20)/LC
H802.11n(HT20)/MC
H802.11n(HT20)/HC
H

802.11n(HT40)/LC
H802.11n(HT40)/MC
H802.11n(HT40)/HC
H

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

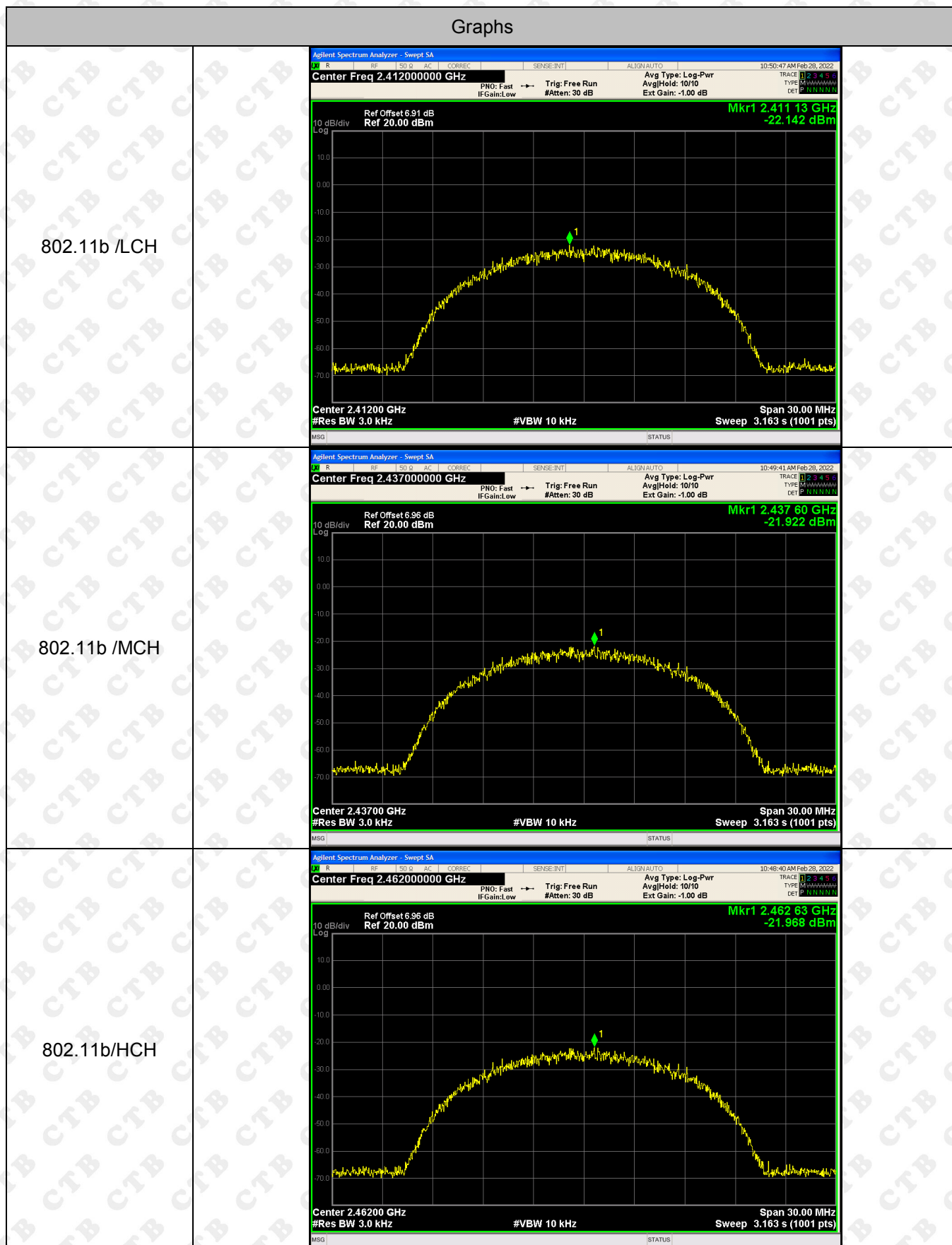
11.3 Test procedure

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.

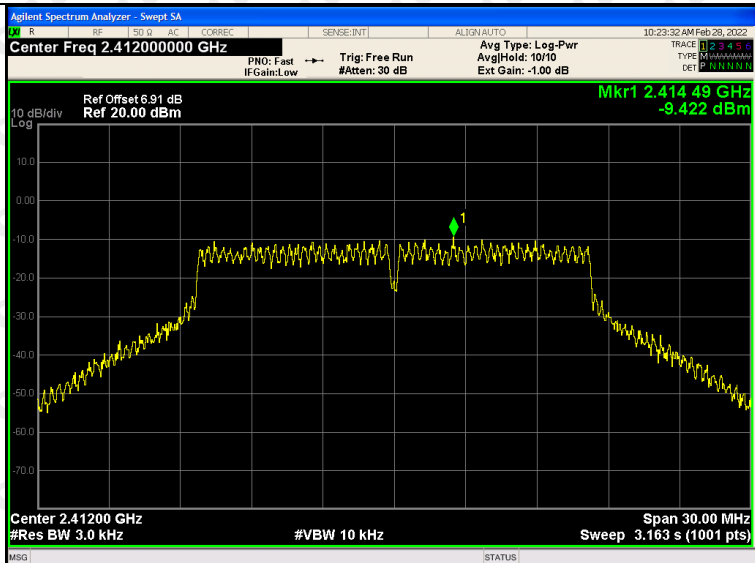
11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /3KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-22.142	8	PASS
	MCH	-21.922	8	PASS
	HCH	-21.968	8	PASS
802.11g	LCH	-9.422	8	PASS
	MCH	-26.225	8	PASS
	HCH	-25.847	8	PASS
802.11n(H T20)	LCH	-26.564	8	PASS
	MCH	-25.579	8	PASS
	HCH	-23.984	8	PASS
802.11n(H T40)	LCH	-29.998	8	PASS
	MCH	-29.825	8	PASS
	HCH	-29.691	8	PASS

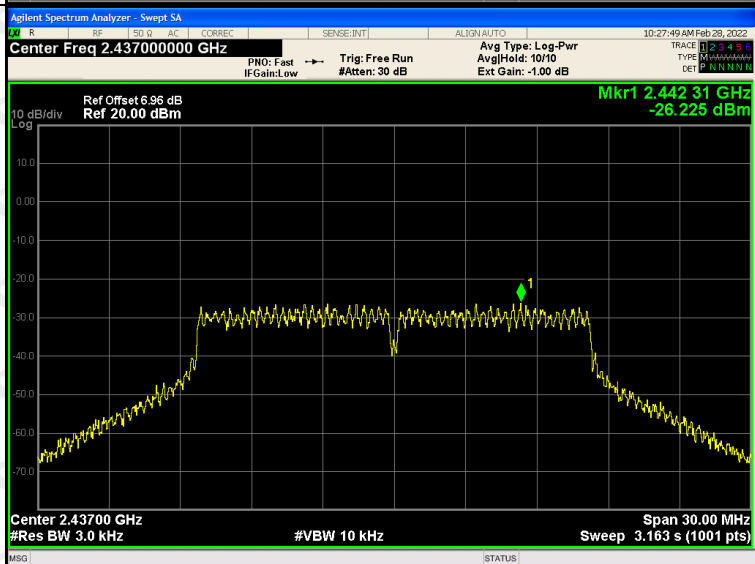
Test Graph



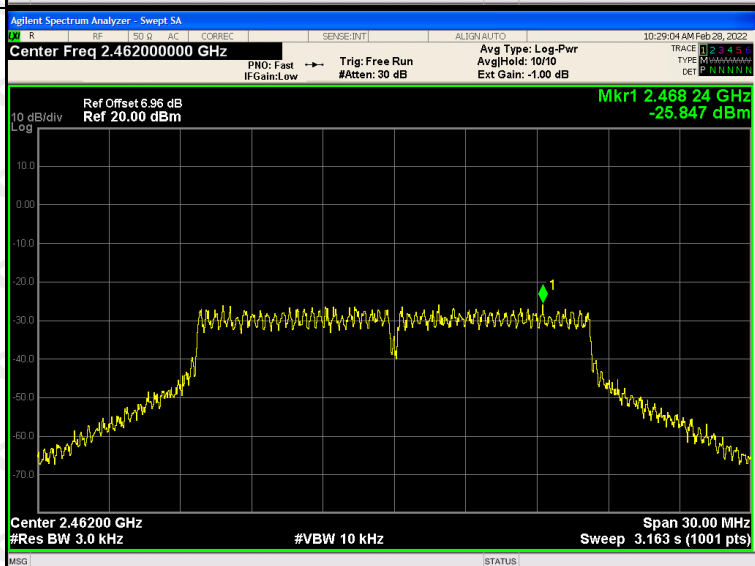
802.11g/LCH

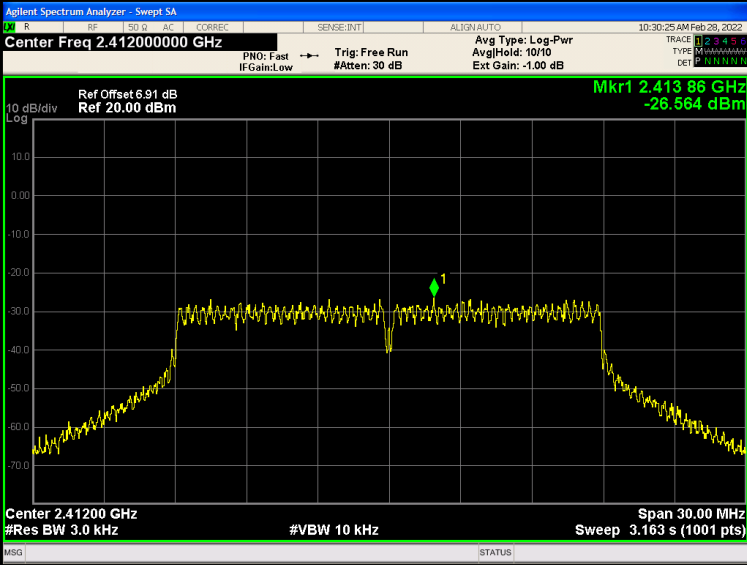
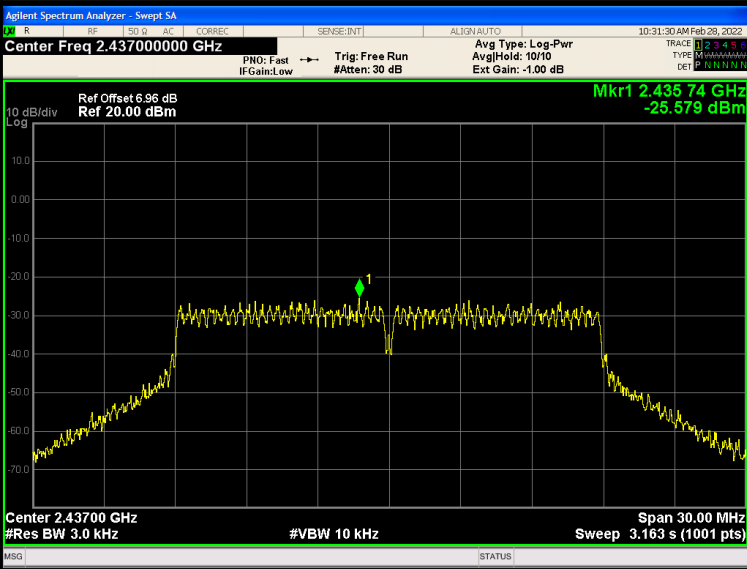
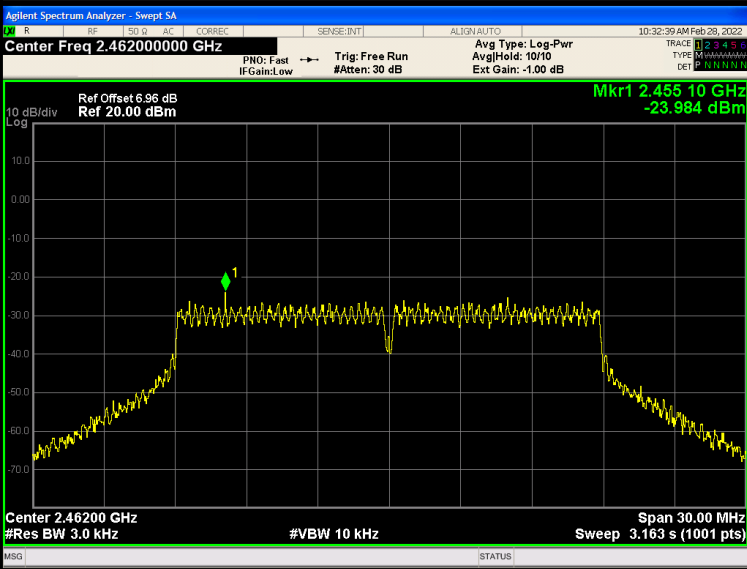


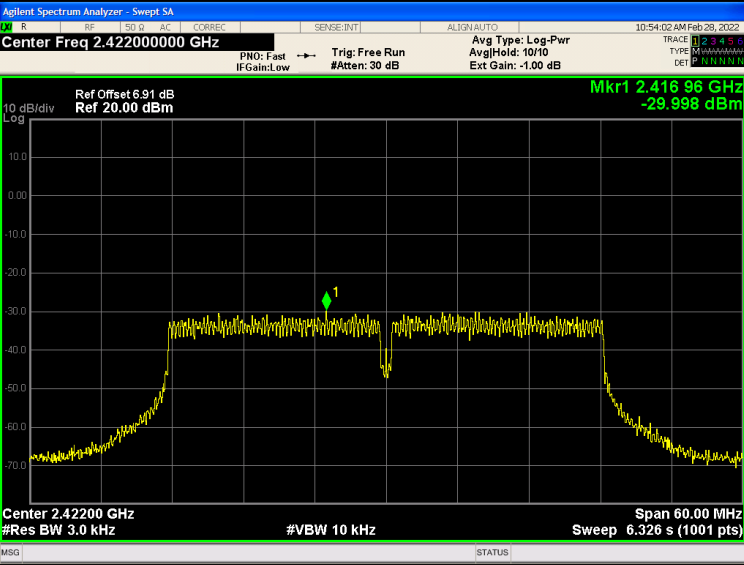
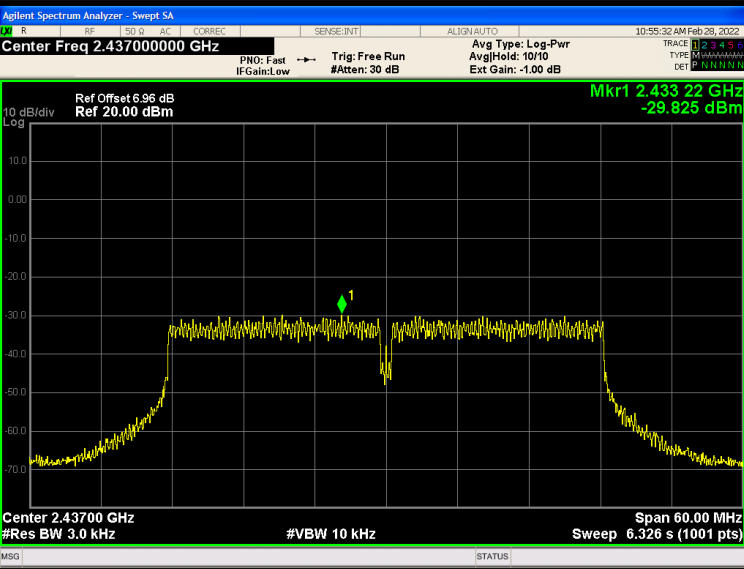
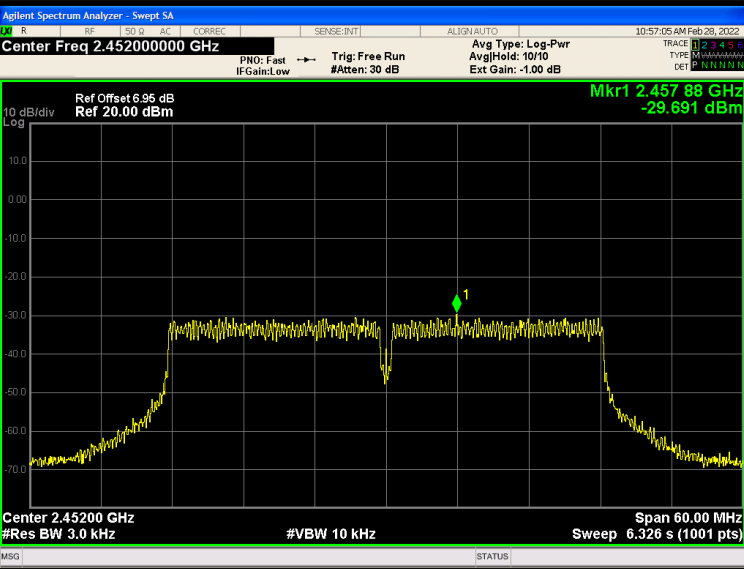
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.91 dB Ref 20.00 dBm Mkr1 2.41386 GHz -26.564 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)	
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.96 dB Ref 20.00 dBm Mkr1 2.43574 GHz -25.579 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)	
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.96 dB Ref 20.00 dBm Mkr1 2.45510 GHz -23.984 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)	

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

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.

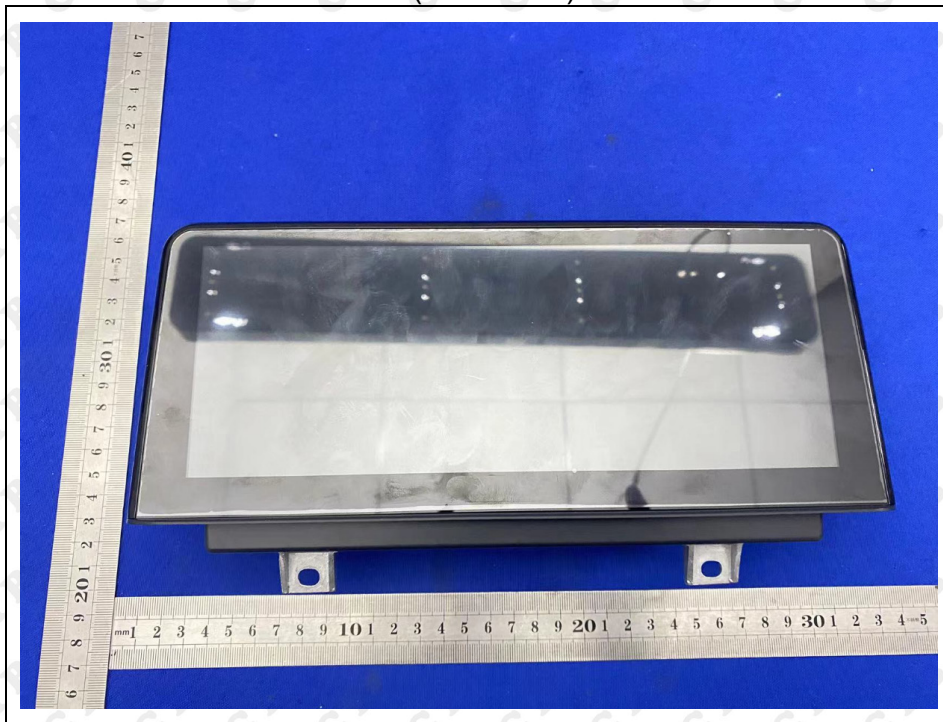
EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi.

13. EUT PHOTOGRAPHS

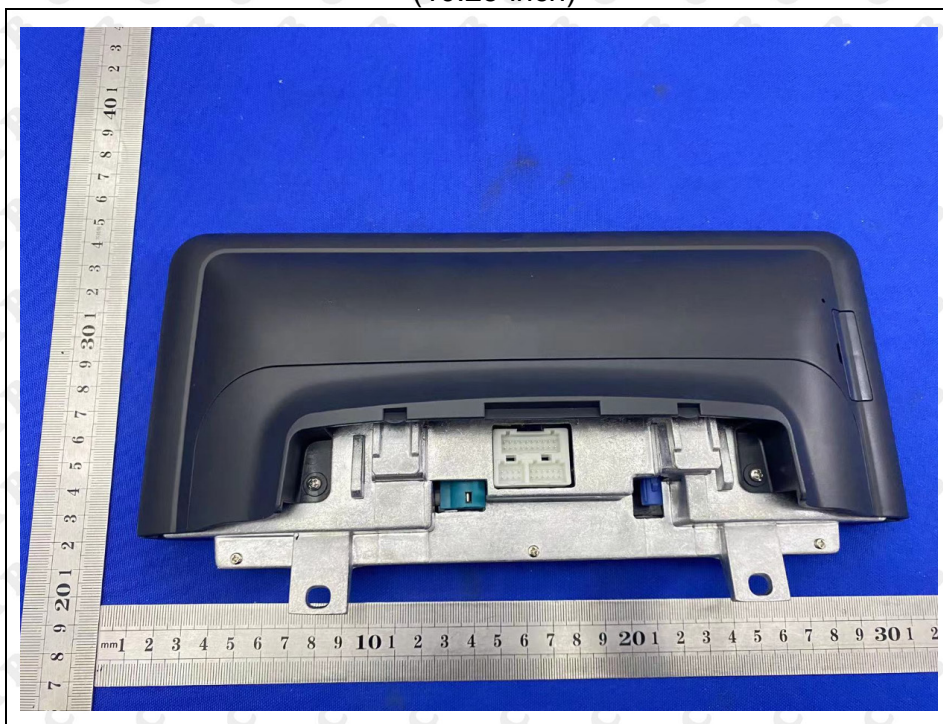
EUT Photo 1

(10.25-inch)



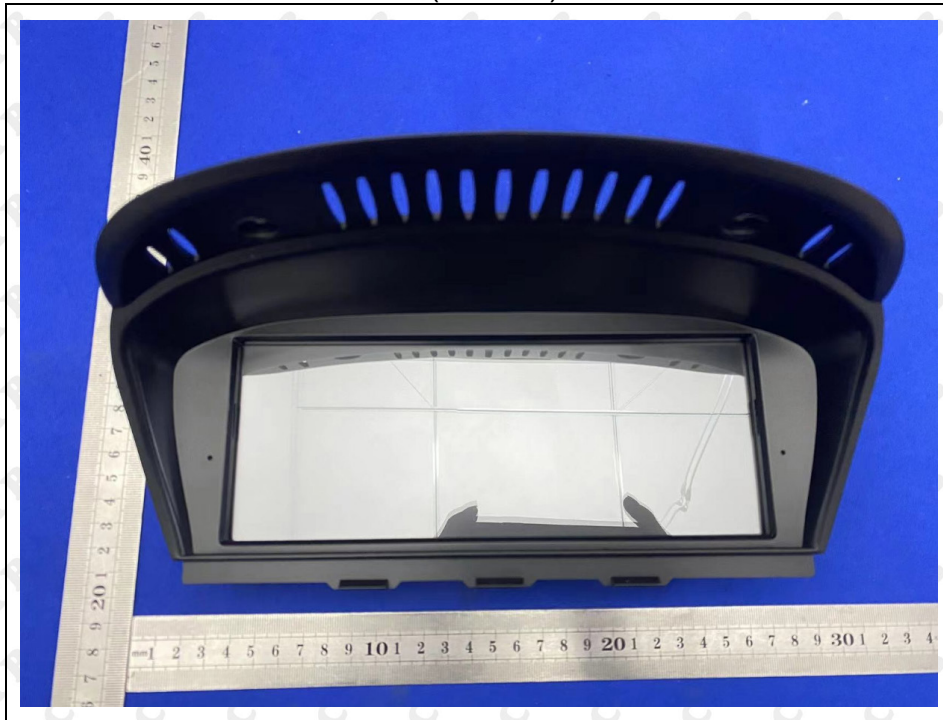
EUT Photo 2

(10.25-inch)



EUT Photo 3

(8.8-inch)



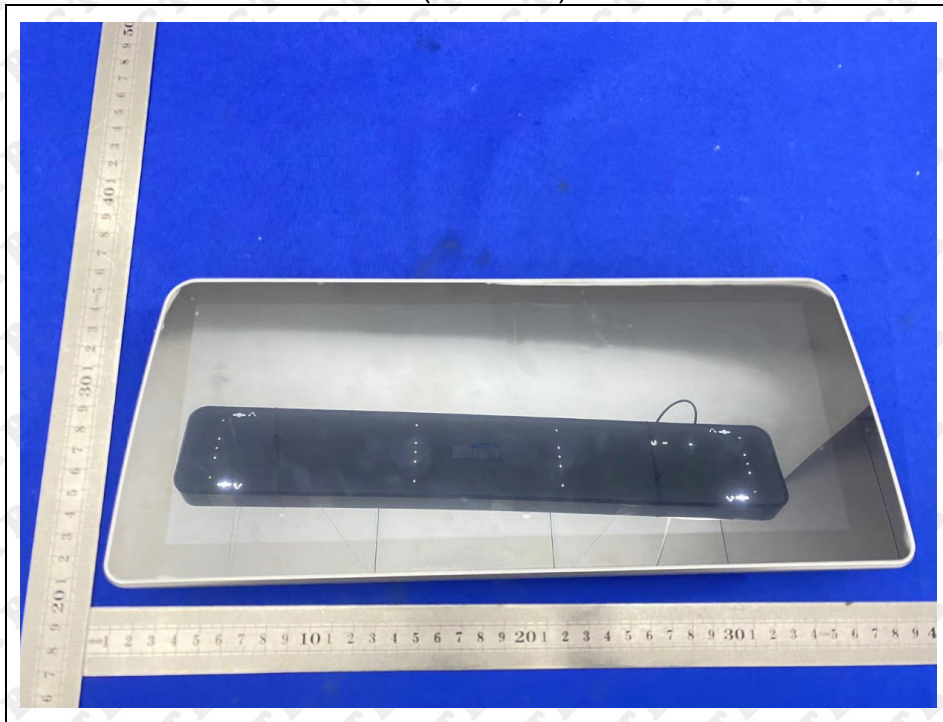
EUT Photo 4

(8.8-inch)



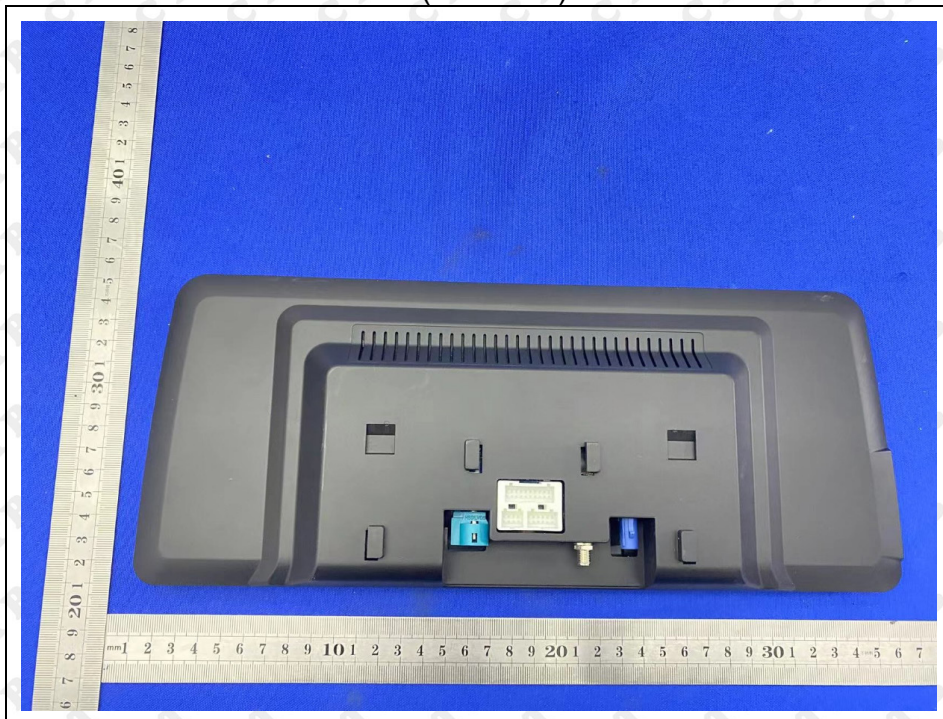
EUT Photo 5

(12.3-inch)



EUT Photo 6

(12.3-inch)



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

(10.25-inch)

Below 1G

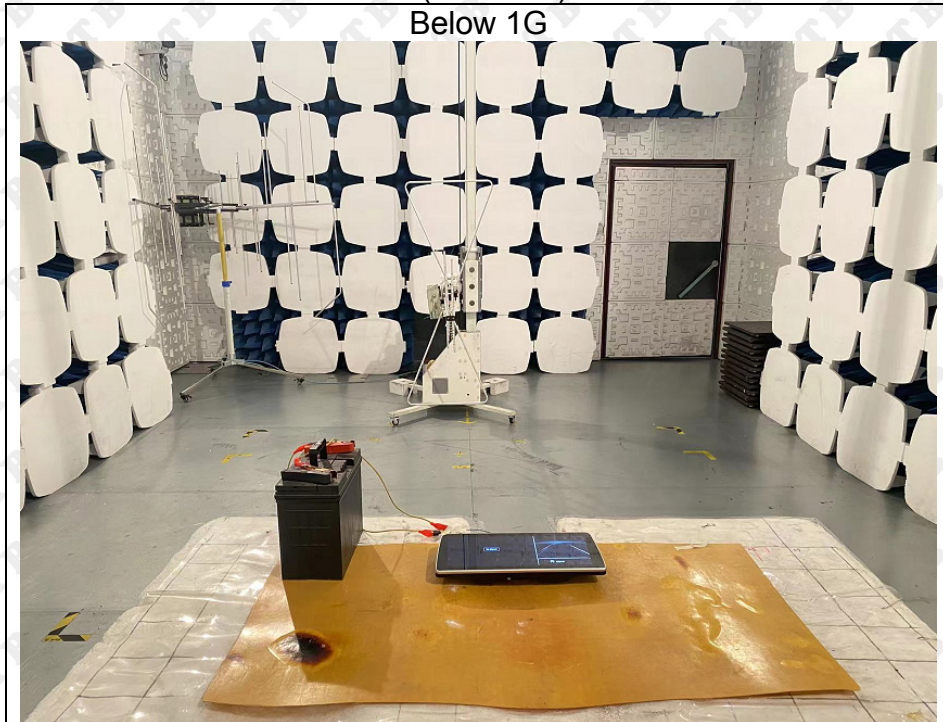


(8.8-inch)

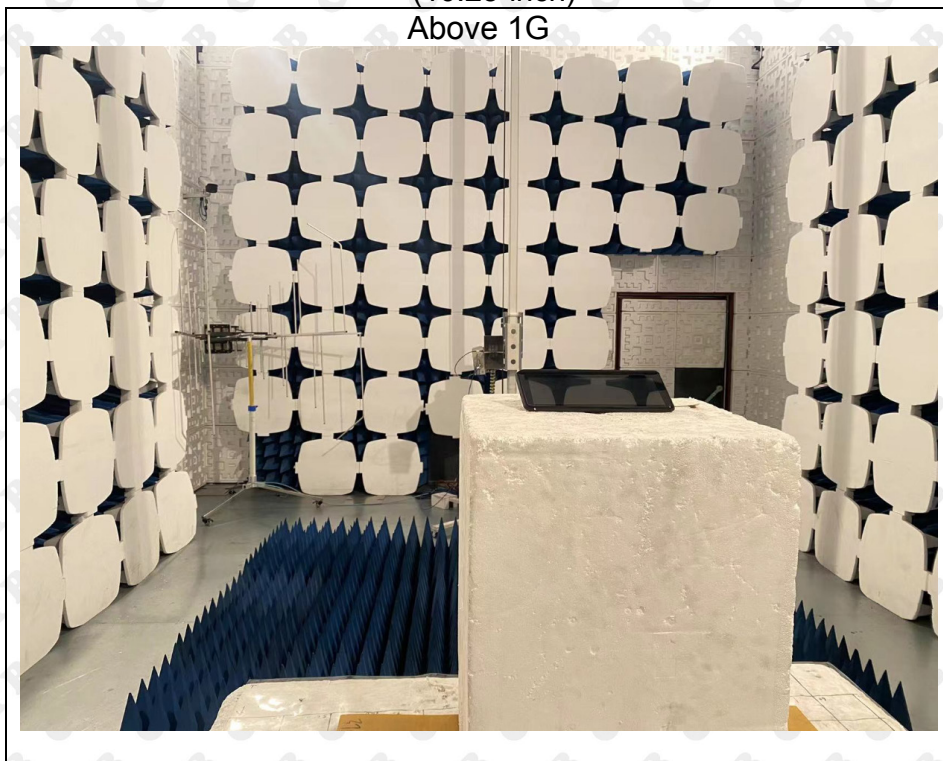
Below 1G



(12.3-inch)
Below 1G



(10.25-inch)
Above 1G



(8.8-inch)
Above 1G



(12.3-inch)
Above 1G



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