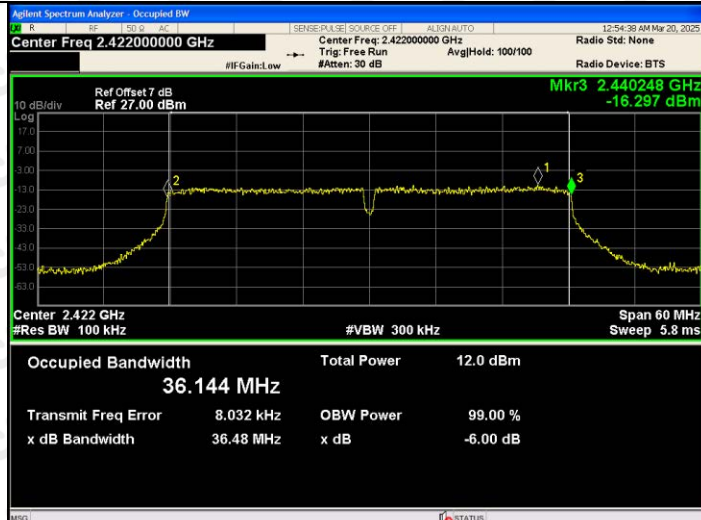
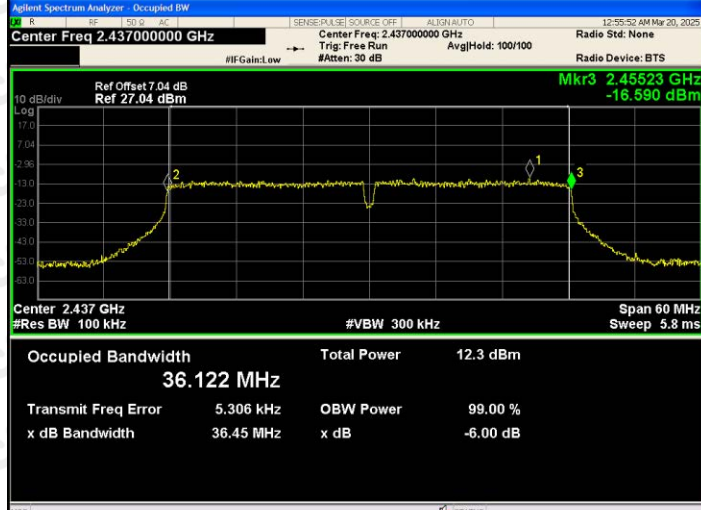
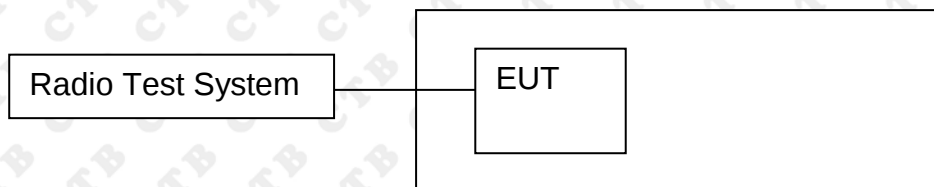


802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Mkr3 2.440248 GHz -16.297 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.0 dBm</td></tr><tr><td>36.144 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>8.032 kHz</td><td>OBW Power</td></tr><tr><td>x dB Bandwidth</td><td>36.48 MHz</td><td>x dB</td></tr><tr><td></td><td></td><td>99.00 %</td></tr><tr><td></td><td></td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	12.0 dBm	36.144 MHz			Transmit Freq Error	8.032 kHz	OBW Power	x dB Bandwidth	36.48 MHz	x dB			99.00 %			-6.00 dB
Occupied Bandwidth	Total Power	12.0 dBm																	
36.144 MHz																			
Transmit Freq Error	8.032 kHz	OBW Power																	
x dB Bandwidth	36.48 MHz	x dB																	
		99.00 %																	
		-6.00 dB																	
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.45523 GHz -16.590 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.3 dBm</td></tr><tr><td>36.122 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>5.306 kHz</td><td>OBW Power</td></tr><tr><td>x dB Bandwidth</td><td>36.45 MHz</td><td>x dB</td></tr><tr><td></td><td></td><td>99.00 %</td></tr><tr><td></td><td></td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	12.3 dBm	36.122 MHz			Transmit Freq Error	5.306 kHz	OBW Power	x dB Bandwidth	36.45 MHz	x dB			99.00 %			-6.00 dB
Occupied Bandwidth	Total Power	12.3 dBm																	
36.122 MHz																			
Transmit Freq Error	5.306 kHz	OBW Power																	
x dB Bandwidth	36.45 MHz	x dB																	
		99.00 %																	
		-6.00 dB																	
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Mkr3 2.470198 GHz -14.827 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.2 dBm</td></tr><tr><td>36.131 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>-34.126 kHz</td><td>OBW Power</td></tr><tr><td>x dB Bandwidth</td><td>36.46 MHz</td><td>x dB</td></tr><tr><td></td><td></td><td>99.00 %</td></tr><tr><td></td><td></td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	12.2 dBm	36.131 MHz			Transmit Freq Error	-34.126 kHz	OBW Power	x dB Bandwidth	36.46 MHz	x dB			99.00 %			-6.00 dB
Occupied Bandwidth	Total Power	12.2 dBm																	
36.131 MHz																			
Transmit Freq Error	-34.126 kHz	OBW Power																	
x dB Bandwidth	36.46 MHz	x dB																	
		99.00 %																	
		-6.00 dB																	

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

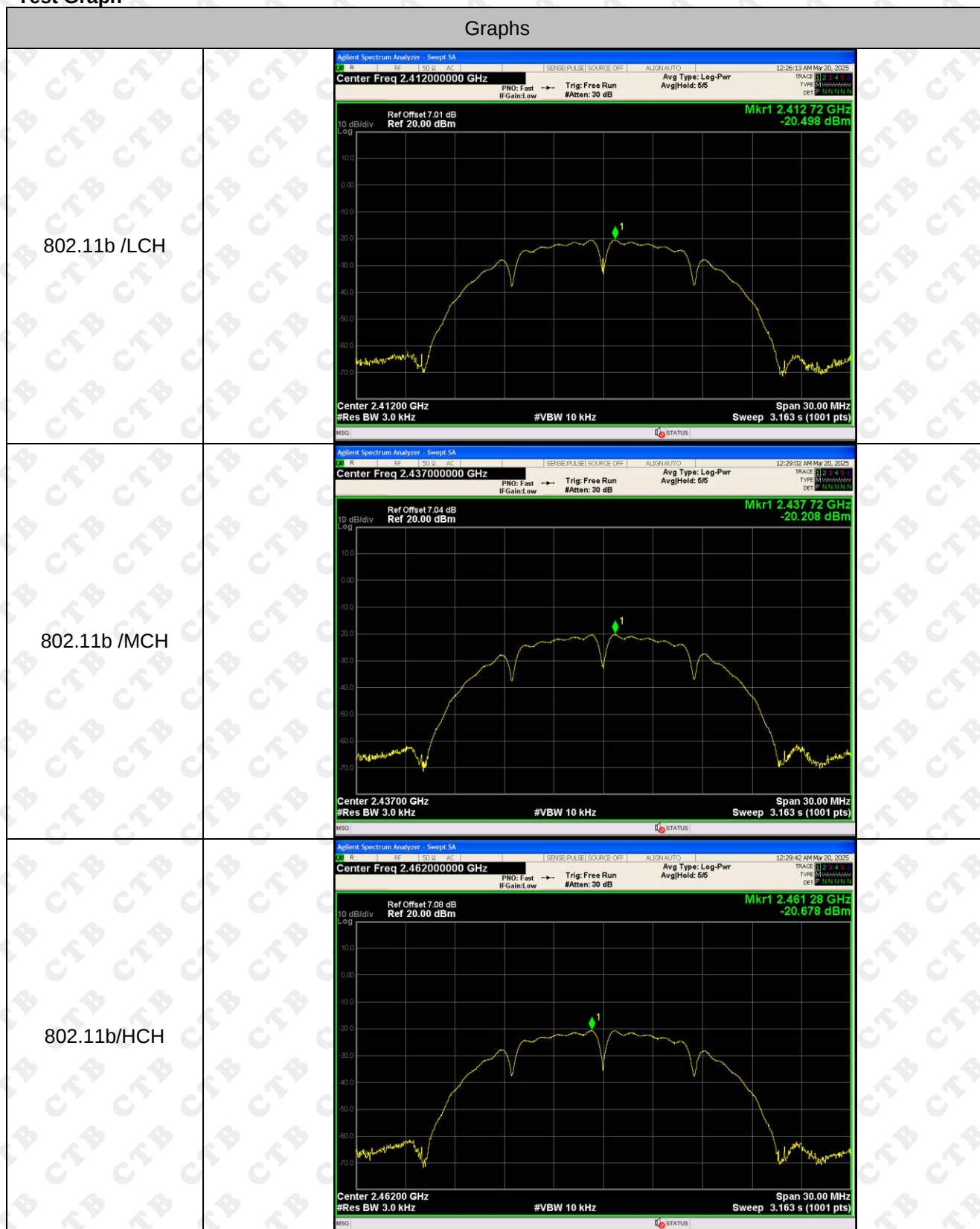
11.3 Test procedure

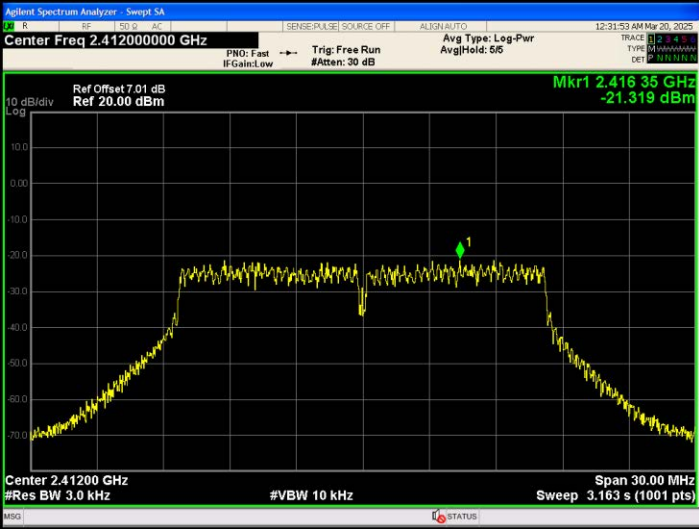
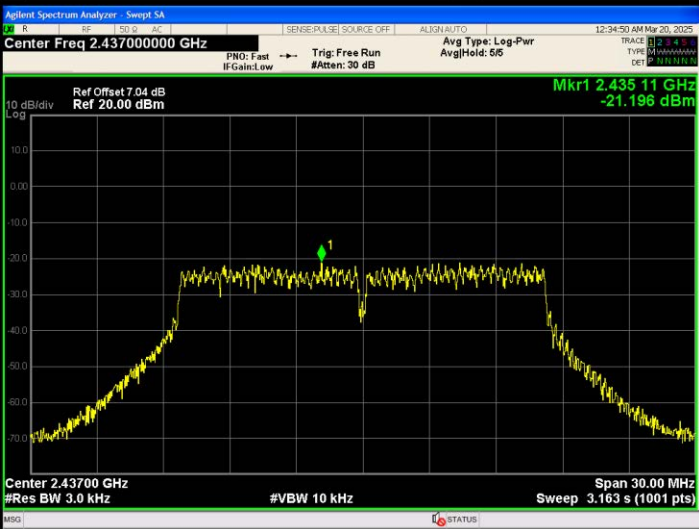
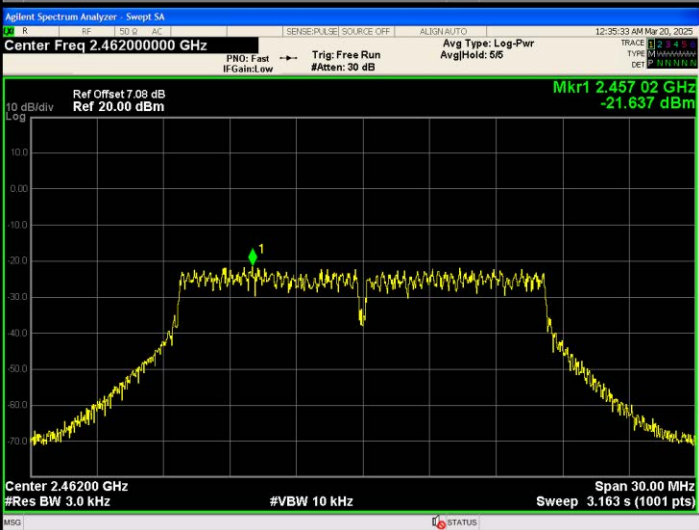
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = Peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
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.

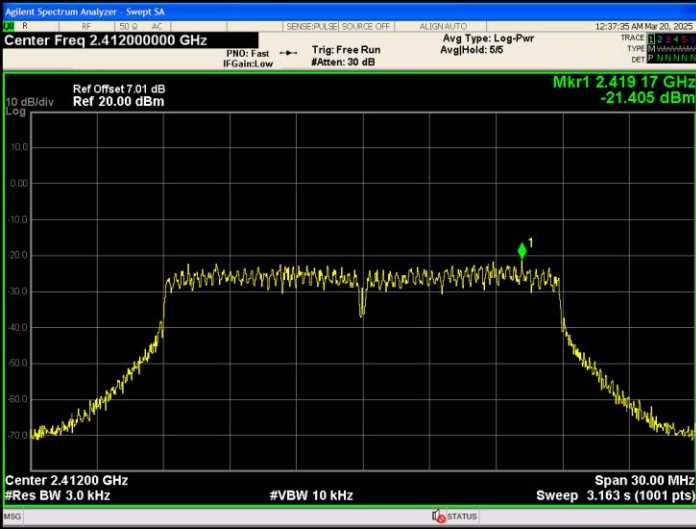
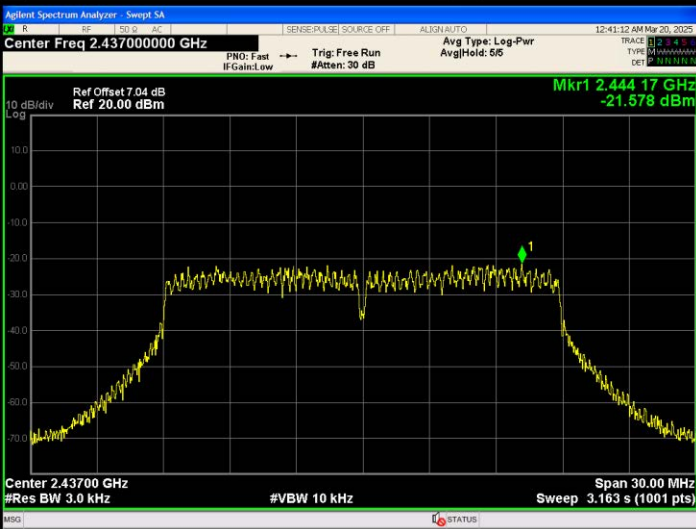
11.4 Test Result

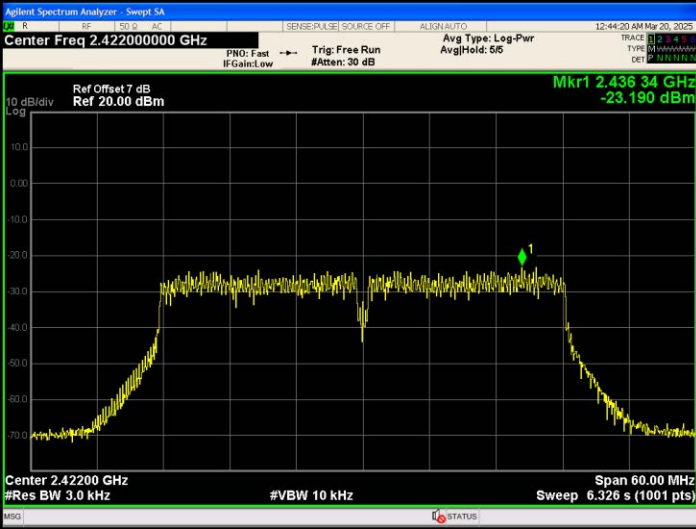
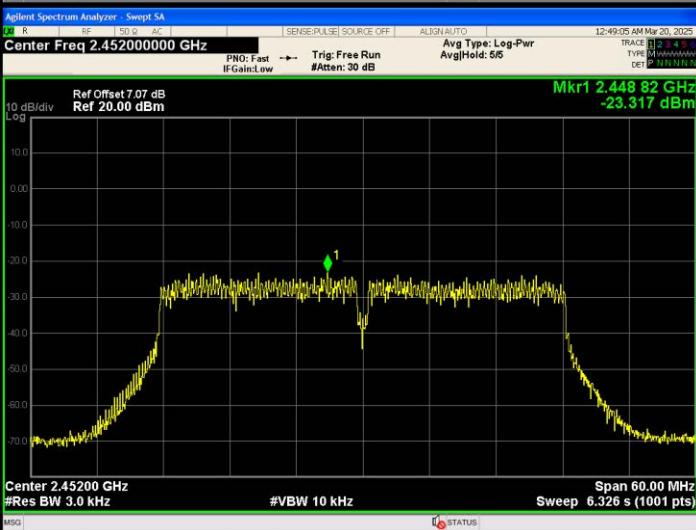
Mode	Channel.	Power Spectral Density [dBm /3KHz] ANT 1	Power Spectral Density [dBm /3KHz] ANT 2	Power Spectral Density [dBm /3KHz] Total	Limit(dBm)
802.11b	LCH	-20.498	-20.720	/	8
	MCH	-20.208	-20.308	/	8
	HCH	-20.678	-20.862	/	8
802.11g	LCH	-21.319	-21.403	/	8
	MCH	-21.196	-20.950	/	8
	HCH	-21.637	-21.839	/	8
802.11n(H T20)	LCH	-21.405	-21.928	-18.648	8
	MCH	-21.578	-21.393	-18.474	8
	HCH	-21.928	-22.206	-19.054	8
802.11n(H T40)	LCH	-23.190	-22.249	-19.684	8
	MCH	-23.162	-22.915	-20.026	8
	HCH	-23.317	-23.202	-20.249	8

ANT1:
Test Graph

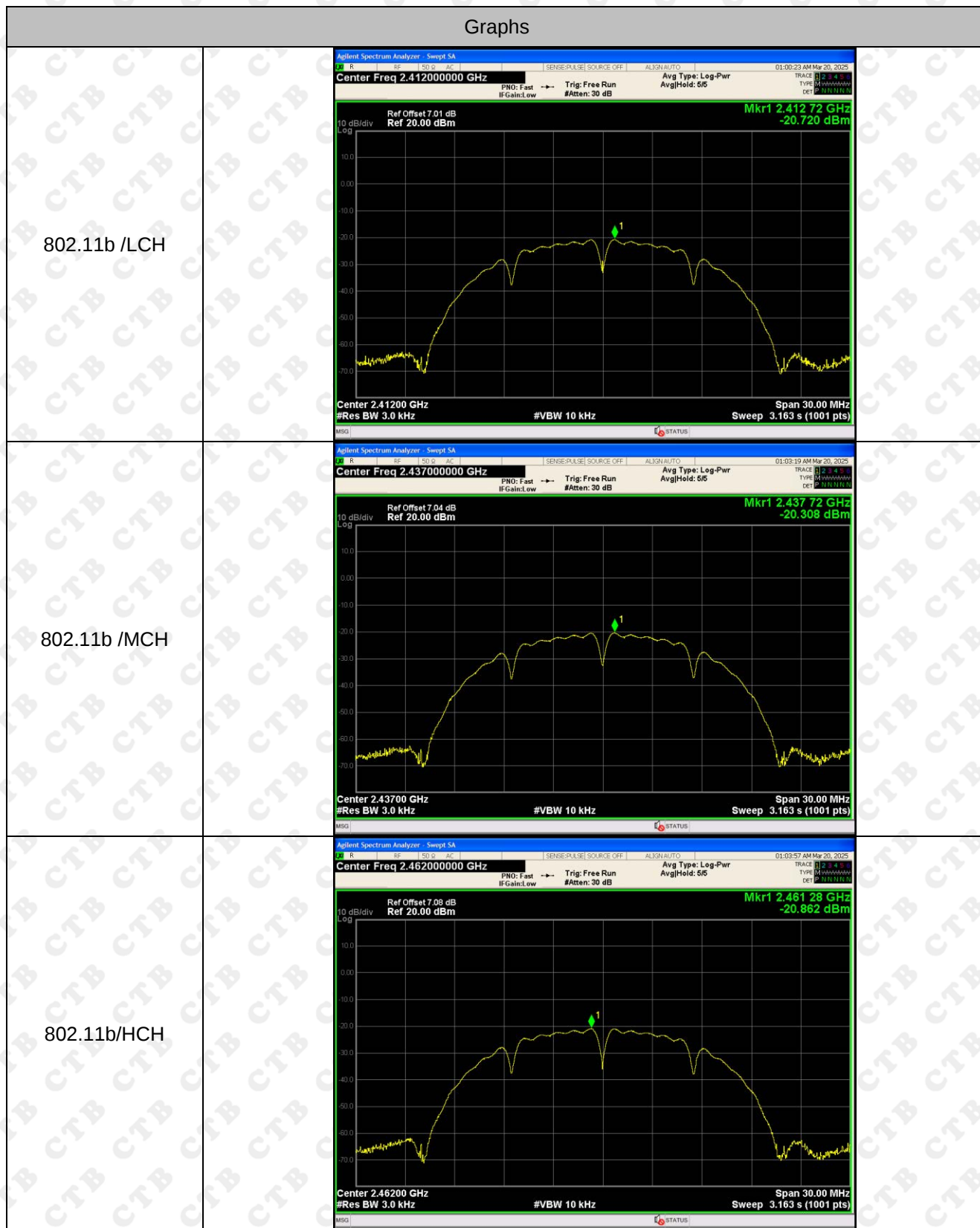


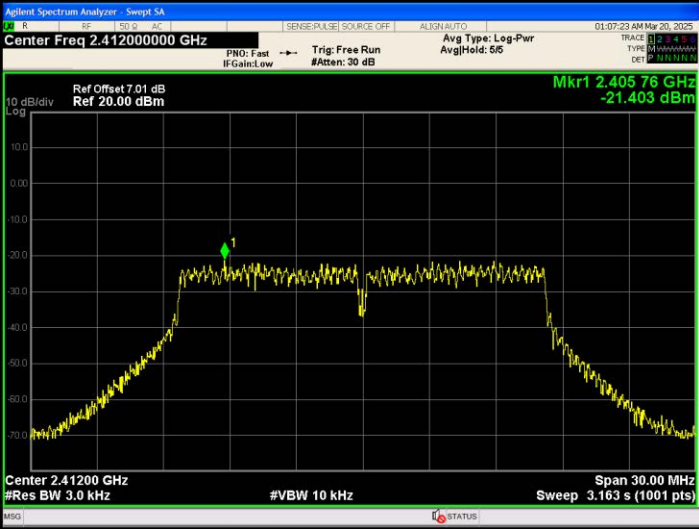
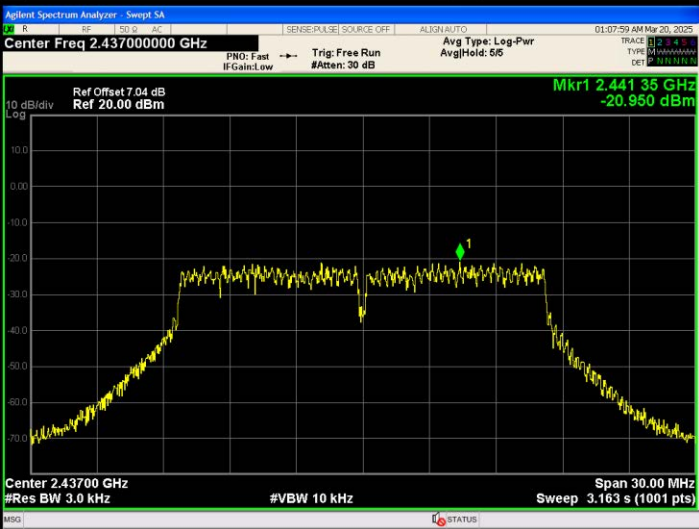
802.11g/LCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41635 GHz -21.319 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11g/MCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.43511 GHz -21.196 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11g/HCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 20.00 dBm Mkr1 2.45702 GHz -21.637 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

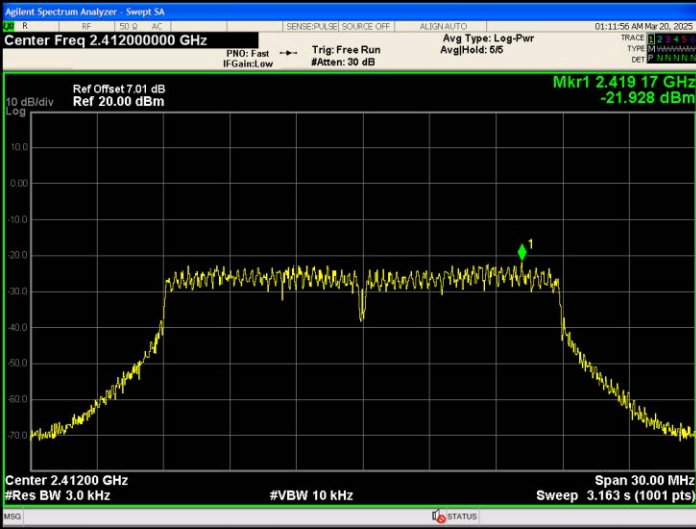
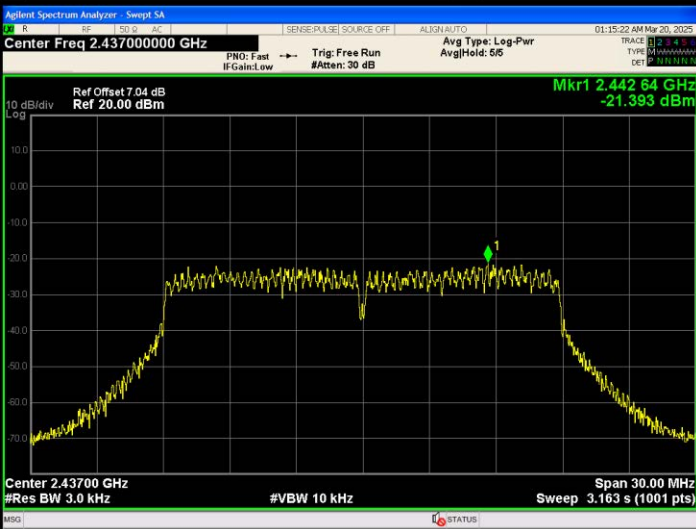
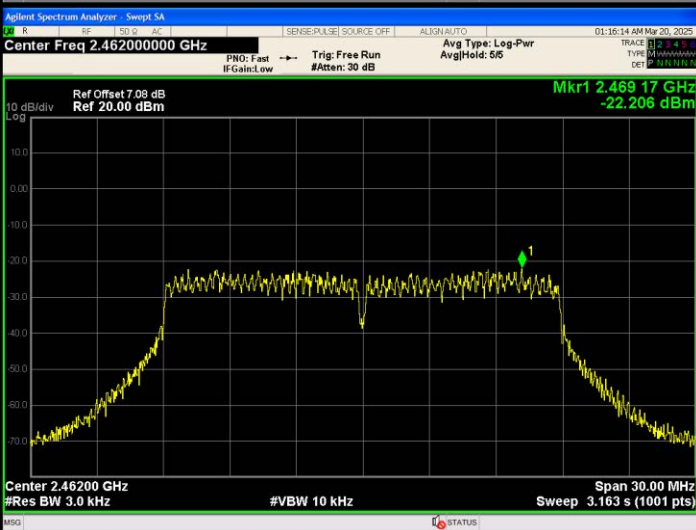
802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41917 GHz -21.405 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.44417 GHz -21.578 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 - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 20.00 dBm Mkr1 2.46788 GHz -21.928 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

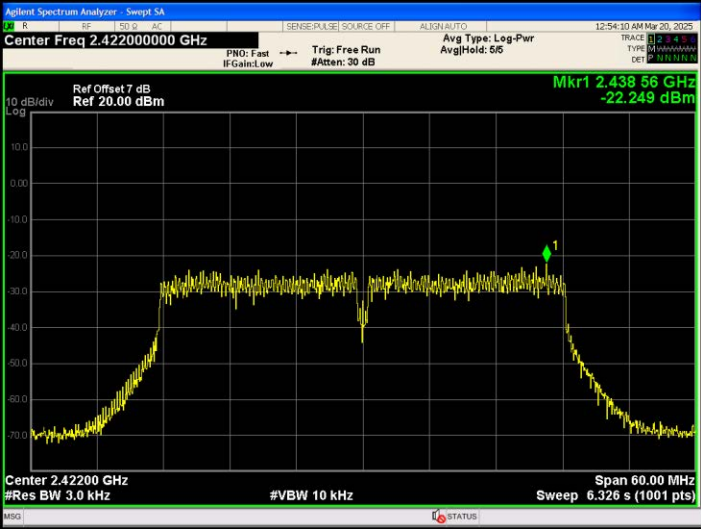
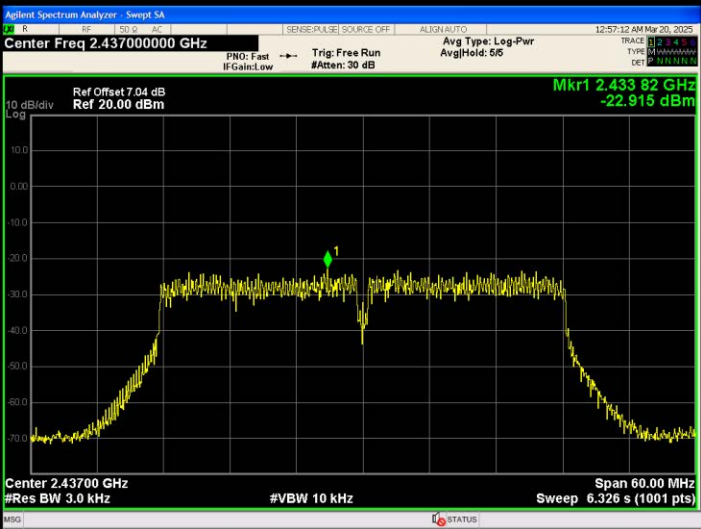
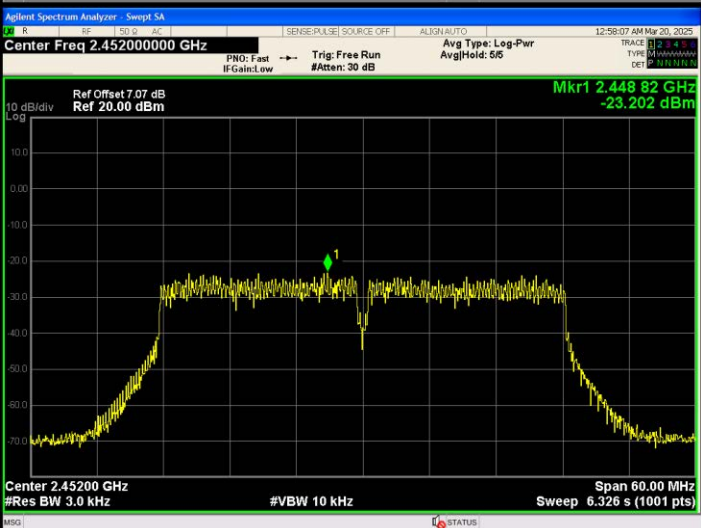
802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.422000000 GHz Ref Offset 7 dB Ref 20.00 dBm Mkr1 2.43634 GHz -23.190 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.437000000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.44012 GHz -23.162 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)/HC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.452000000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.44882 GHz -23.317 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

ANT 2: Test Graph



802.11g/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.40576 GHz -21.403 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11g/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.44135 GHz -20.950 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11g/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 20.00 dBm Mkr1 2.45666 GHz -21.839 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(HT20)/LC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41917 GHz -21.928 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 7.04 dB Ref 20.00 dBm Mkr1 2.44264 GHz -21.393 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 7.08 dB Ref 20.00 dBm Mkr1 2.46917 GHz -22.206 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 2.99dBi.

13. EUT PHOTOGRAPHS

External Photos

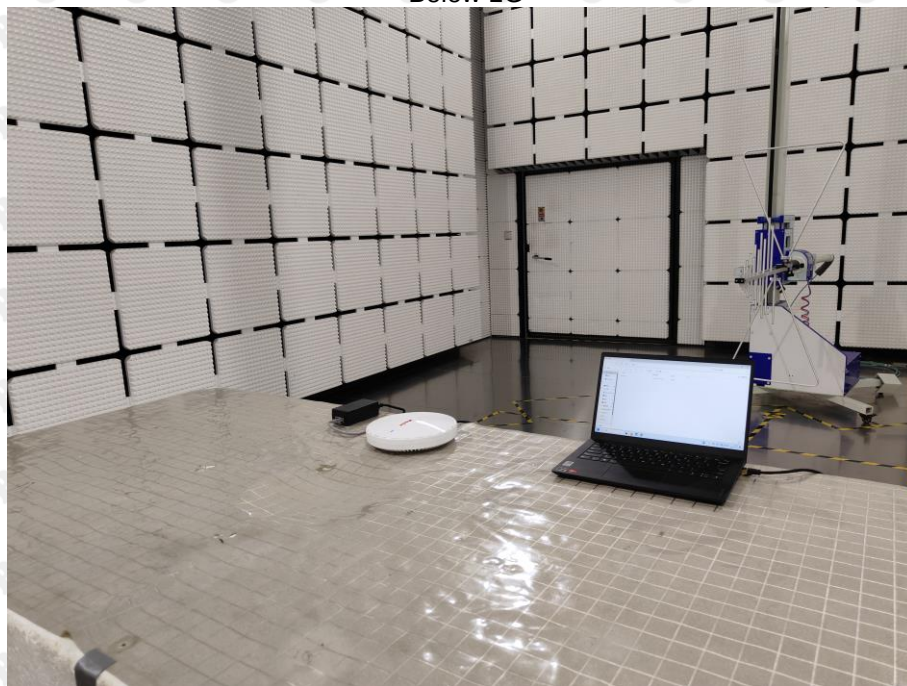
EUT Photo 1



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

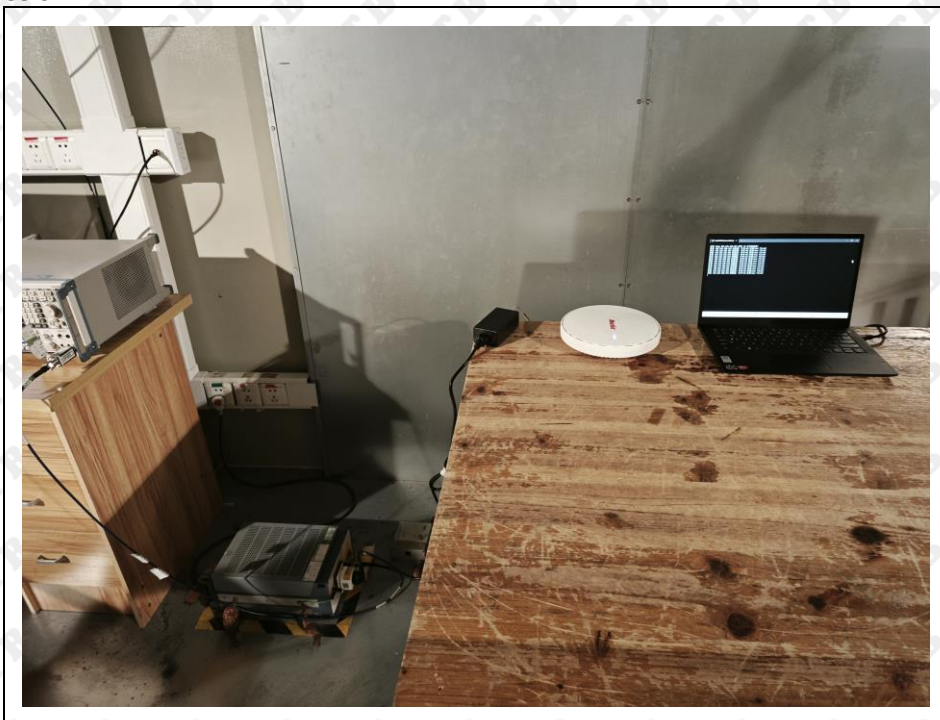
Below 1G



Above 1G



Conducted Emission



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