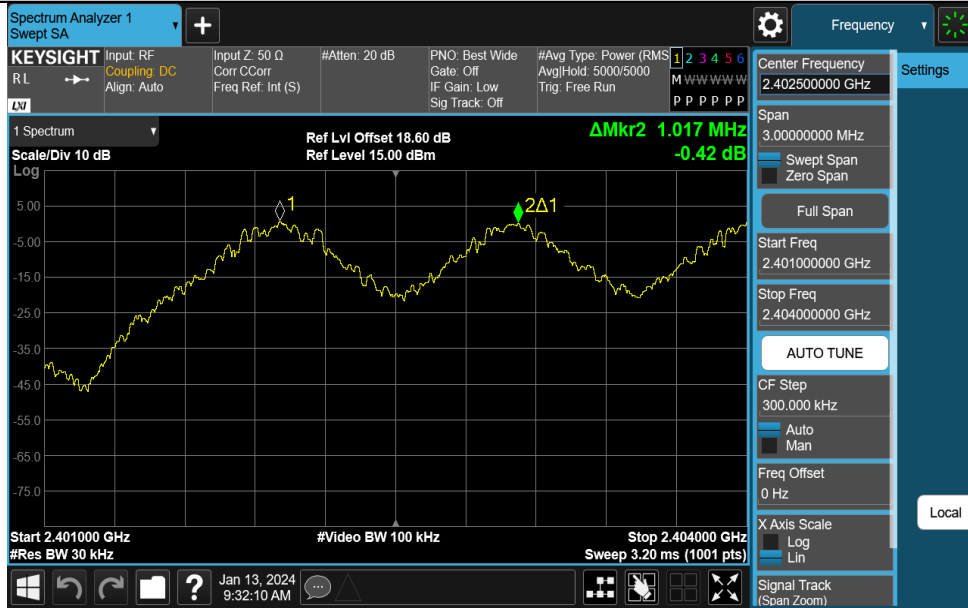


Appendix C: Carrier frequency separation Test Result

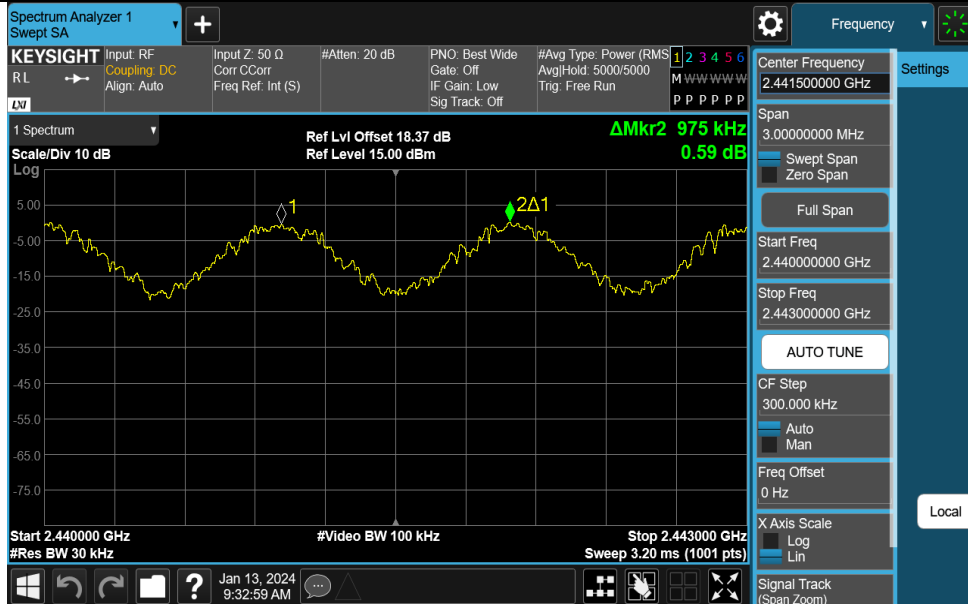
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.017	≥ 0.690	PASS
DH5	Ant1	2441	0.975	≥ 0.690	PASS
DH5	Ant1	2480	1.023	≥ 0.690	PASS
2DH5	Ant1	2402	1.029	≥ 0.880	PASS
2DH5	Ant1	2441	1.173	≥ 0.880	PASS
2DH5	Ant1	2480	1.158	≥ 0.880	PASS

Test Graphs

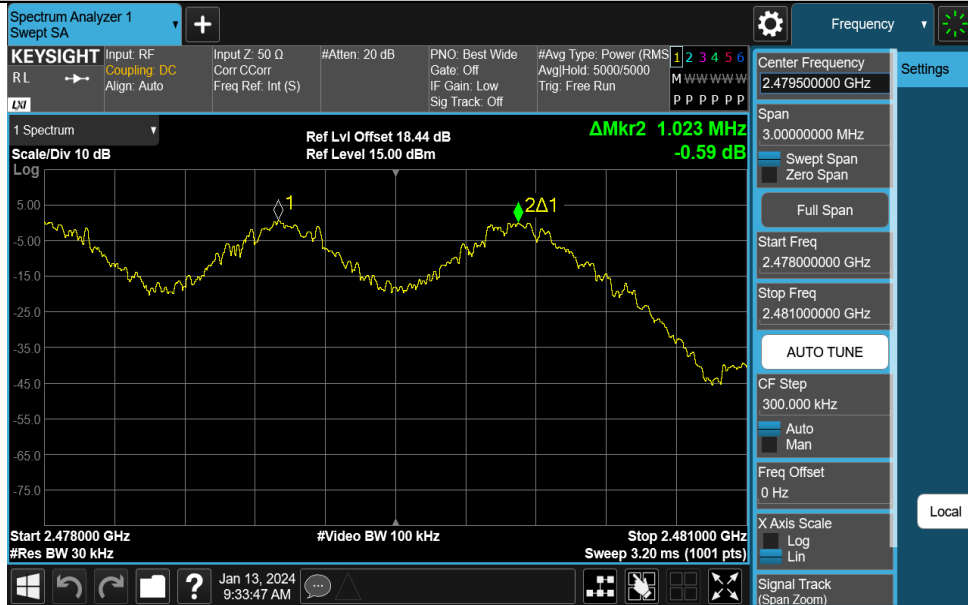
DH5-Ant1-2402-PASS



DH5-Ant1-2441-PASS



DH5-Ant1-2480-PASS

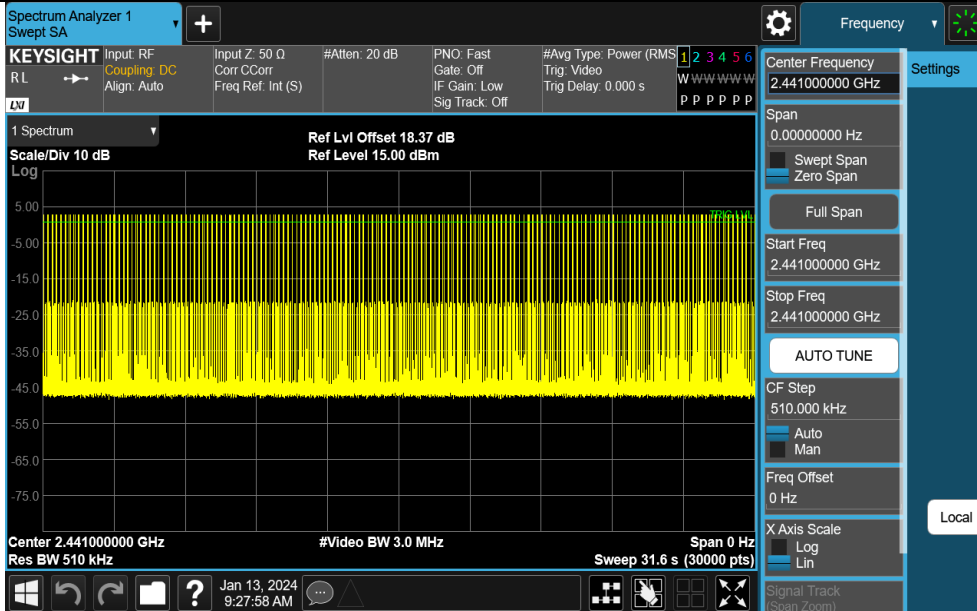
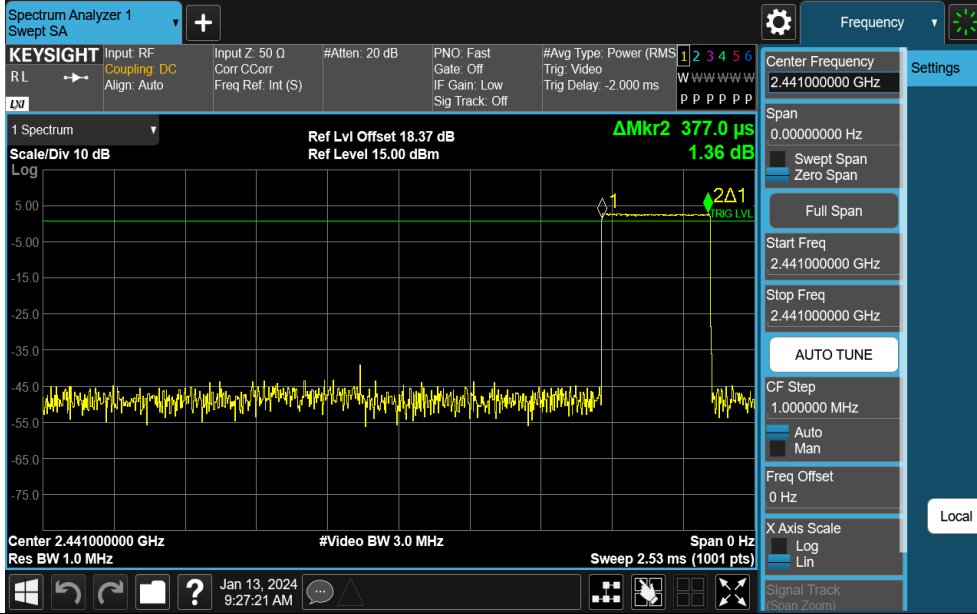


Appendix D: Time of occupancy Test Result

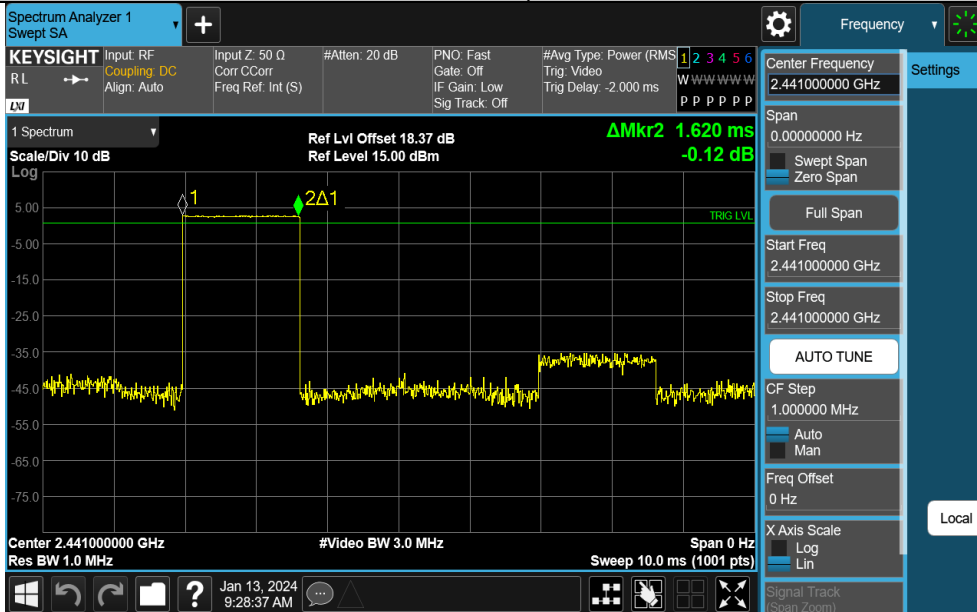
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.377	317	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.620	157	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.860	99	0.283	≤0.4	PASS
2DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.630	154	0.251	≤0.4	PASS
2DH5	Ant1	Hop	2.880	102	0.294	≤0.4	PASS

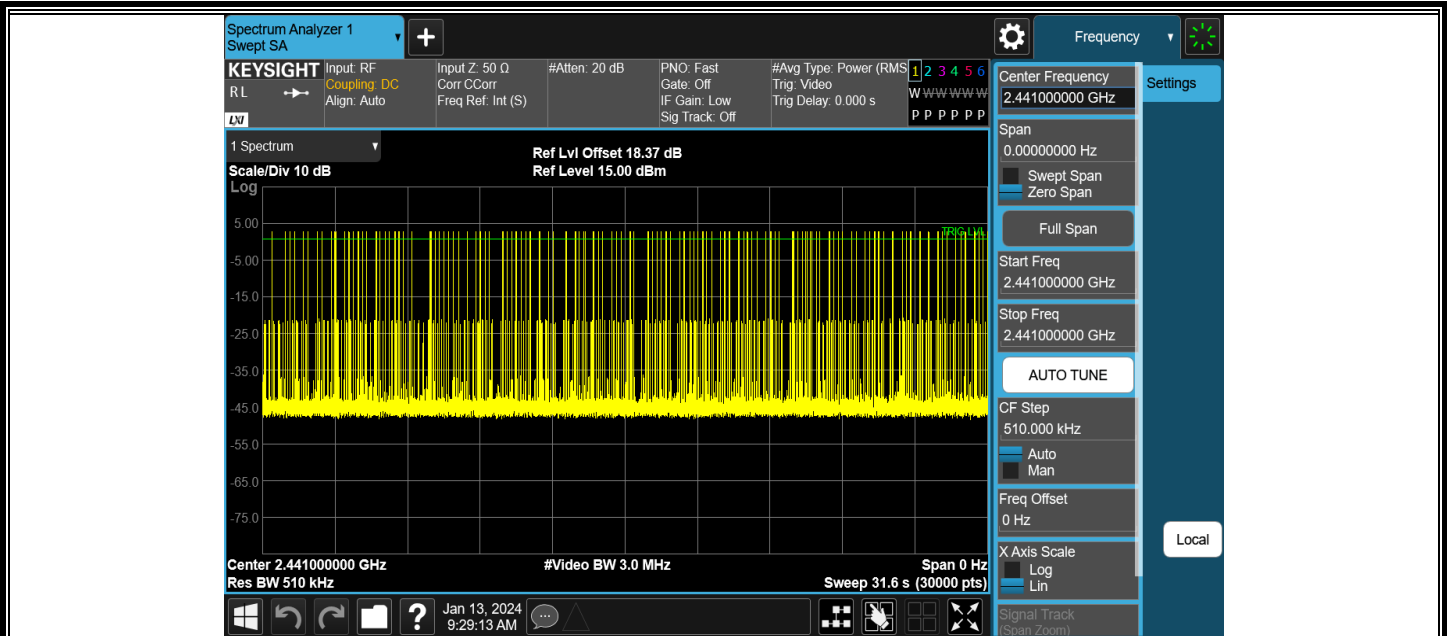
Test Graphs

DH1-Ant1-Hop-PASS

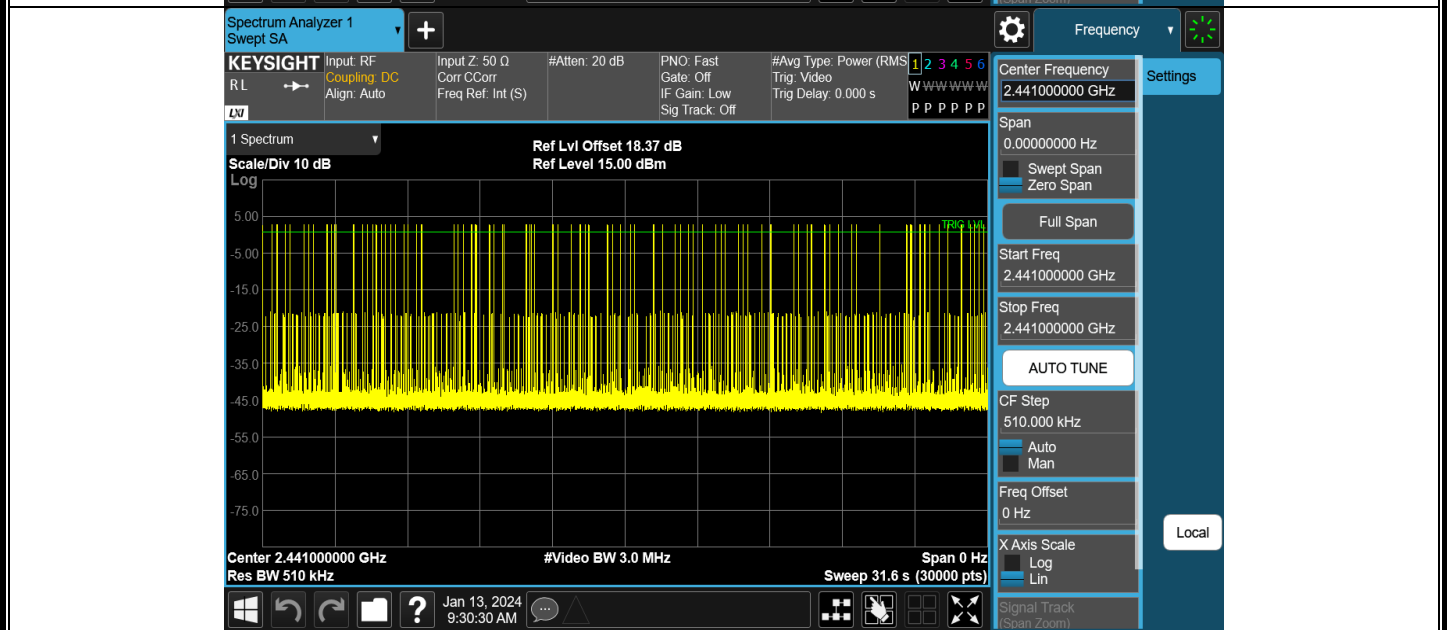
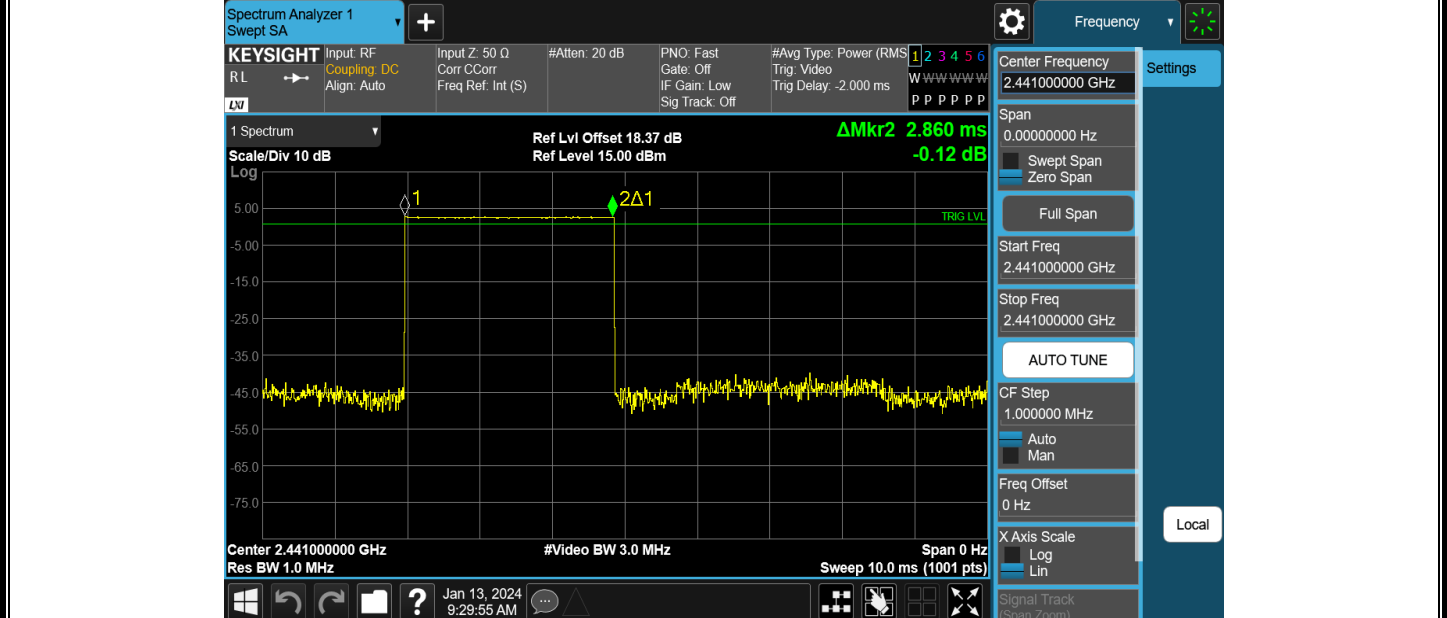


DH3-Ant1-Hop-PASS

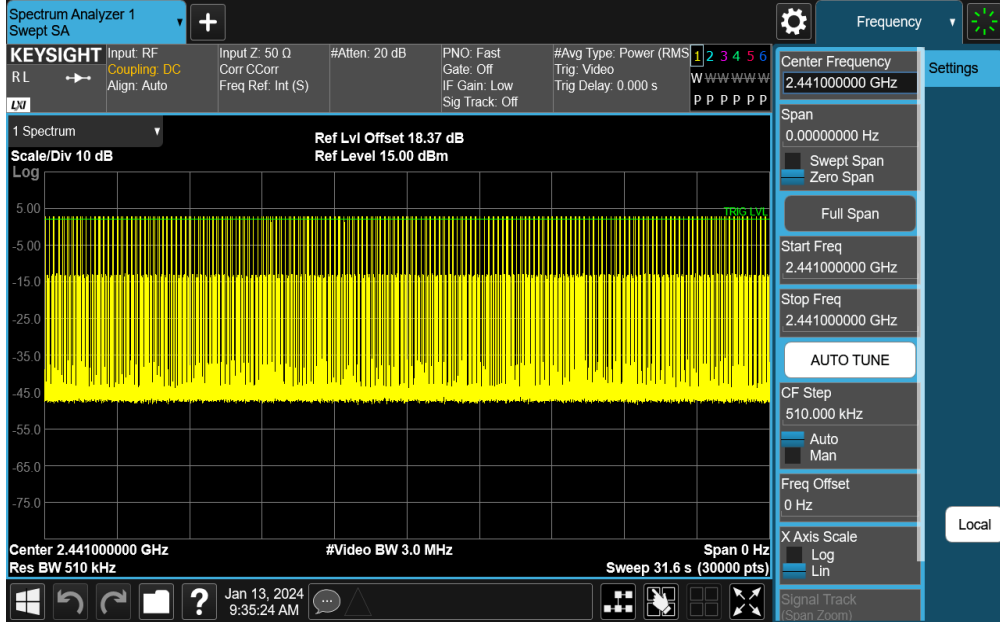
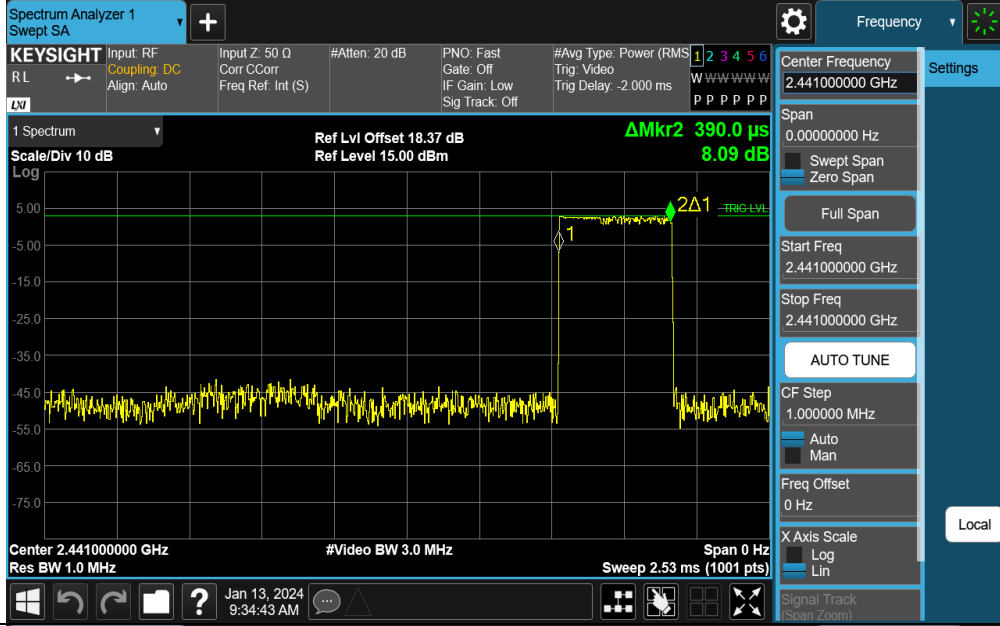




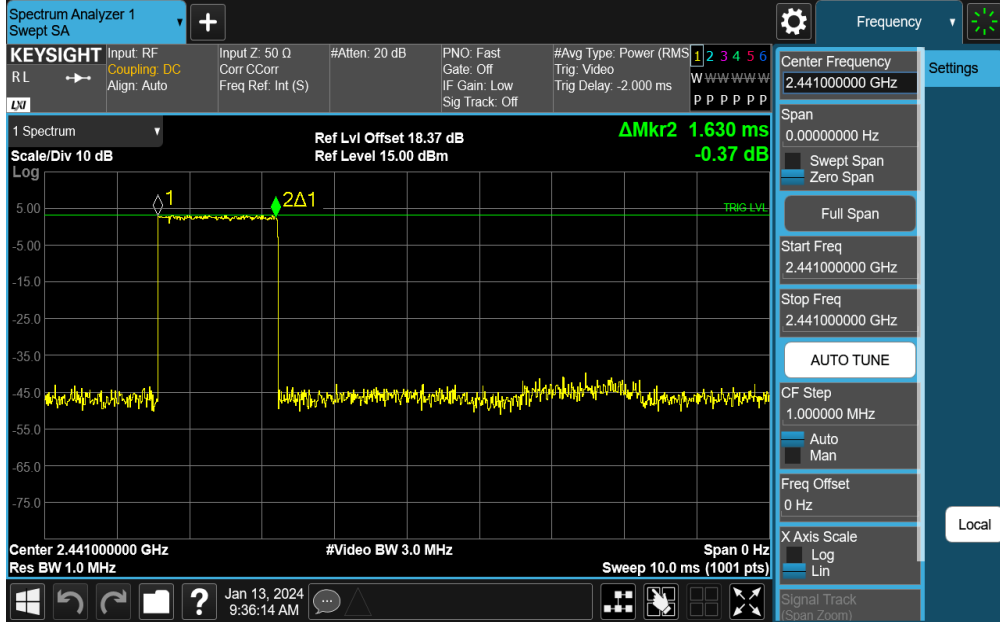
DH5-Ant1-Hop-PASS



2DH1-Ant1-Hop-PASS

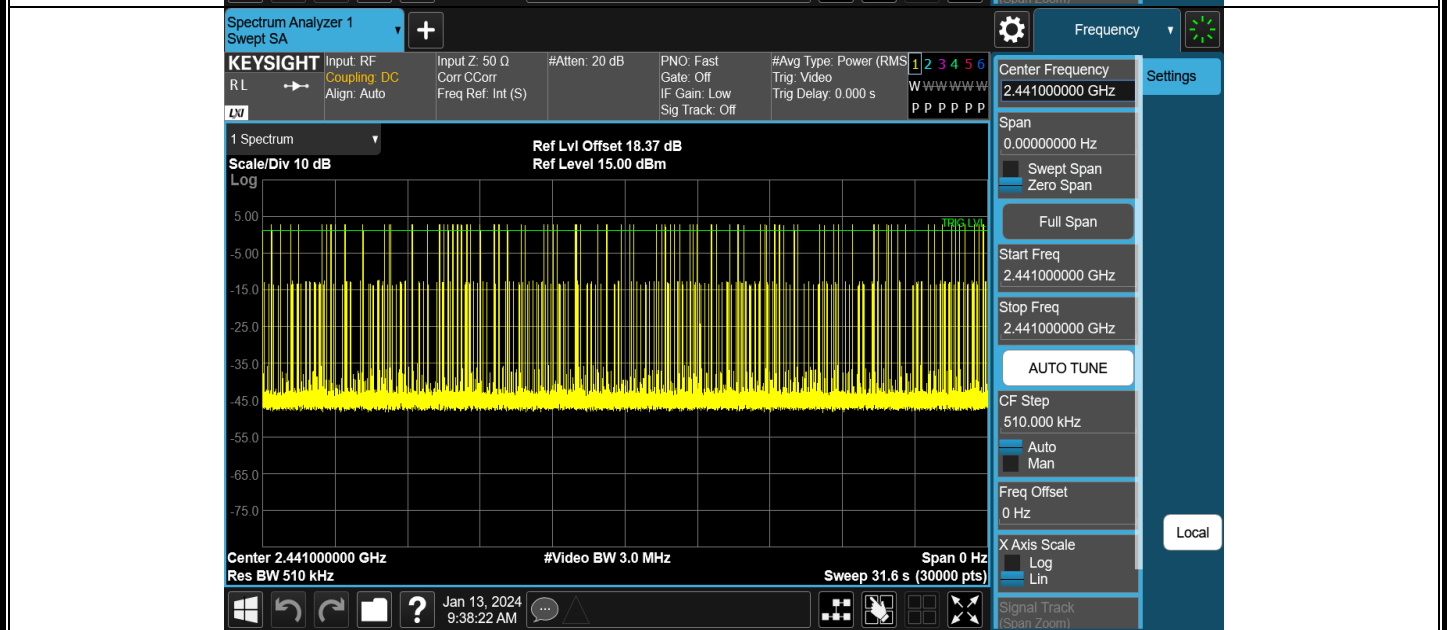
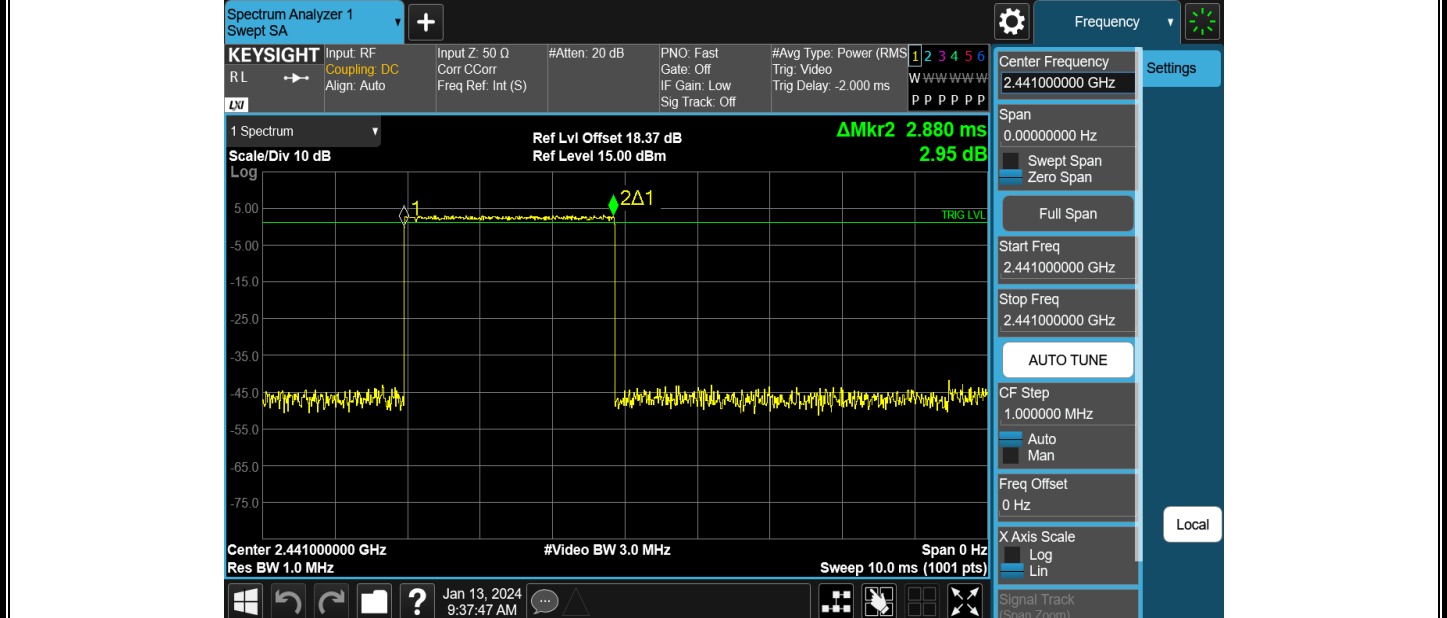


2DH3-Ant1-Hop-PASS





2DH5-Ant1-Hop-PASS



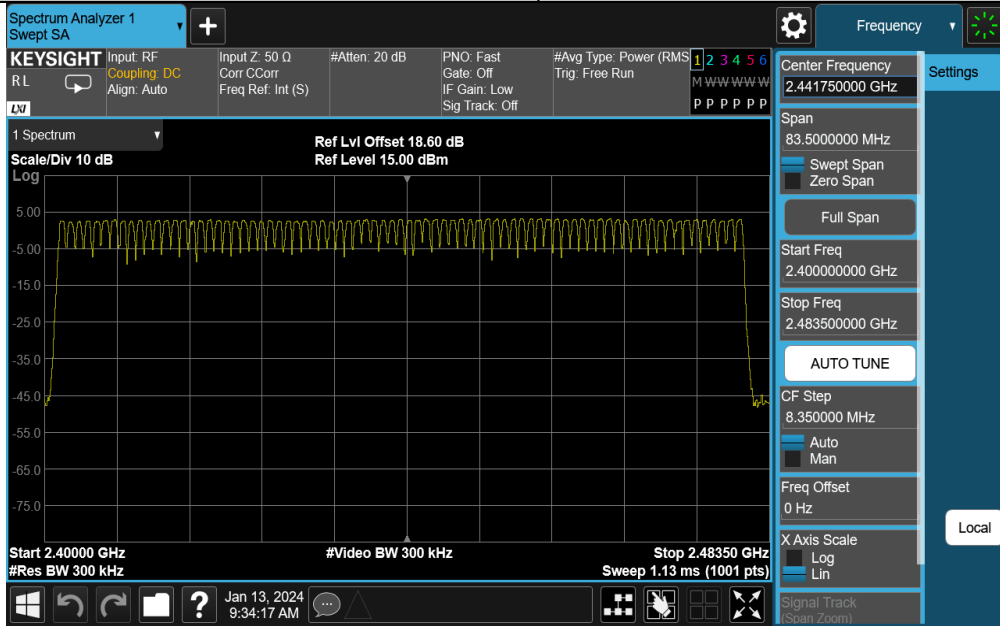
Appendix E: Number of hopping channels

Test Result

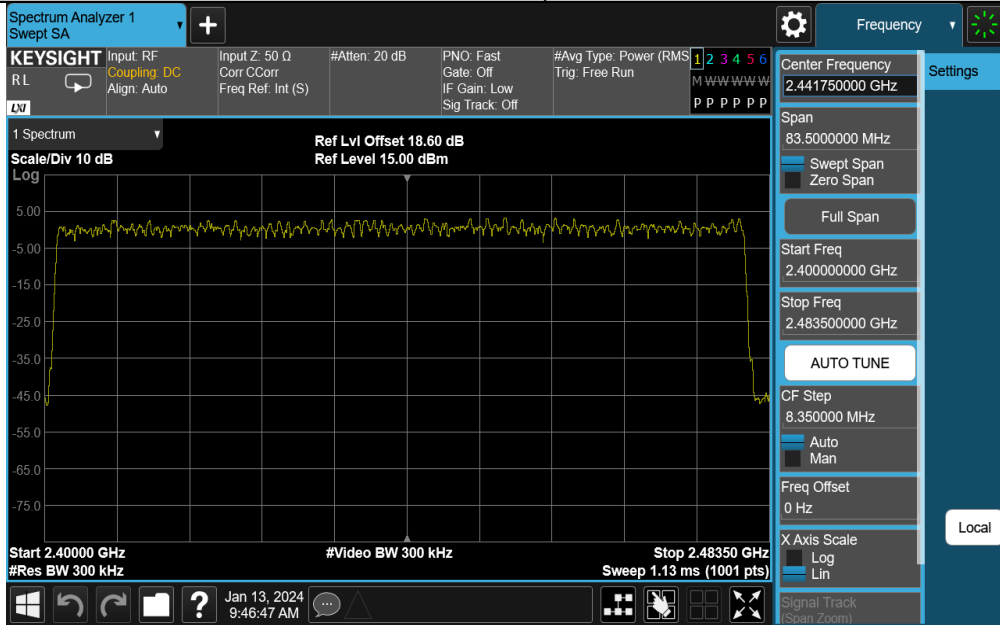
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



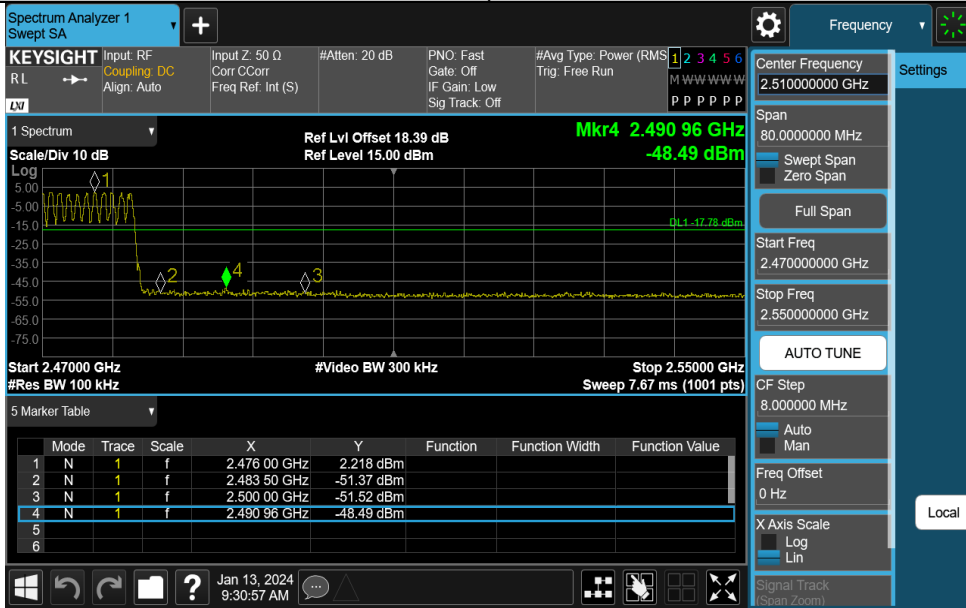
Appendix F: Band edge measurements

Test Result

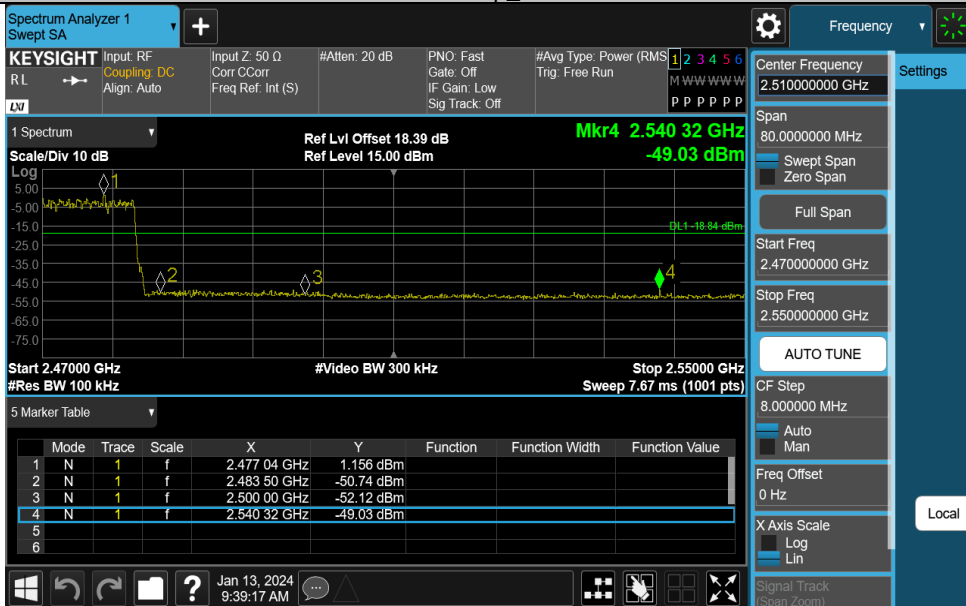
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	High	Hop_2480	2.22	-48.49	≤-17.78	PASS
2DH5	Ant1	High	Hop_2480	1.16	-49.03	≤-18.84	PASS
DH5	Ant1	Low	Hop_2402	2.34	-49.3	≤-17.66	PASS
2DH5	Ant1	Low	Hop_2402	0.11	-47.44	≤-19.89	PASS
DH5	Ant1	High	2480	2.77	-47.54	≤-17.23	PASS
2DH5	Ant1	High	2480	2.55	-48.88	≤-17.45	PASS
DH5	Ant1	Low	2402	2.07	-49.22	≤-17.93	PASS
2DH5	Ant1	Low	2402	2.52	-49.03	≤-17.48	PASS

Test Graphs

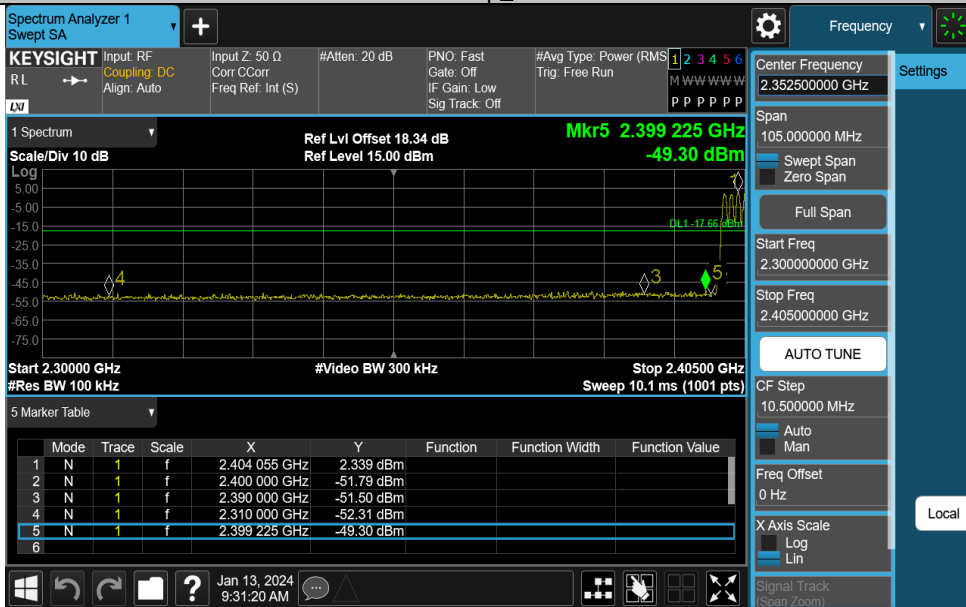
DH5-Ant1-Hop_2480-PASS



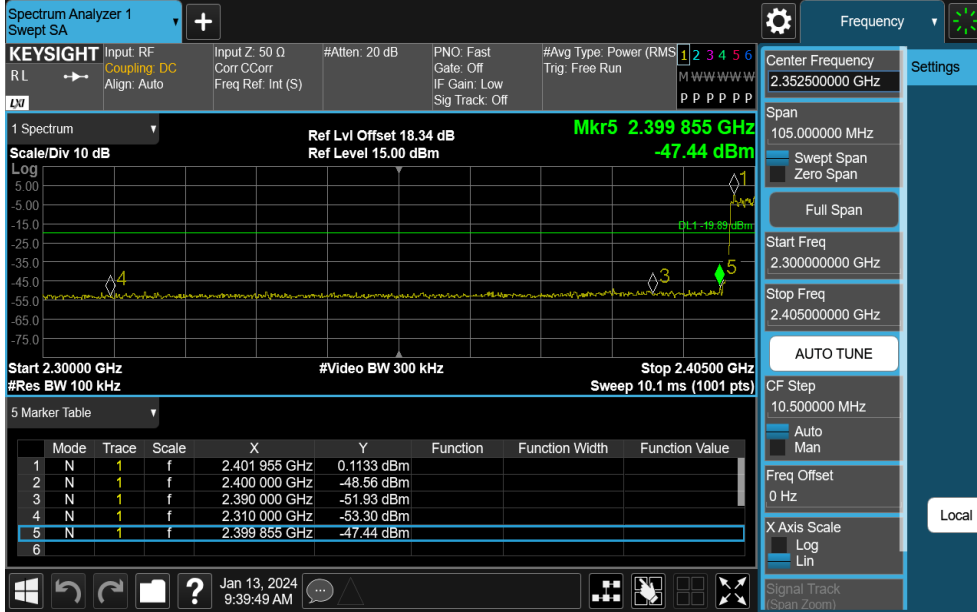
2DH5-Ant1-Hop_2480-PASS



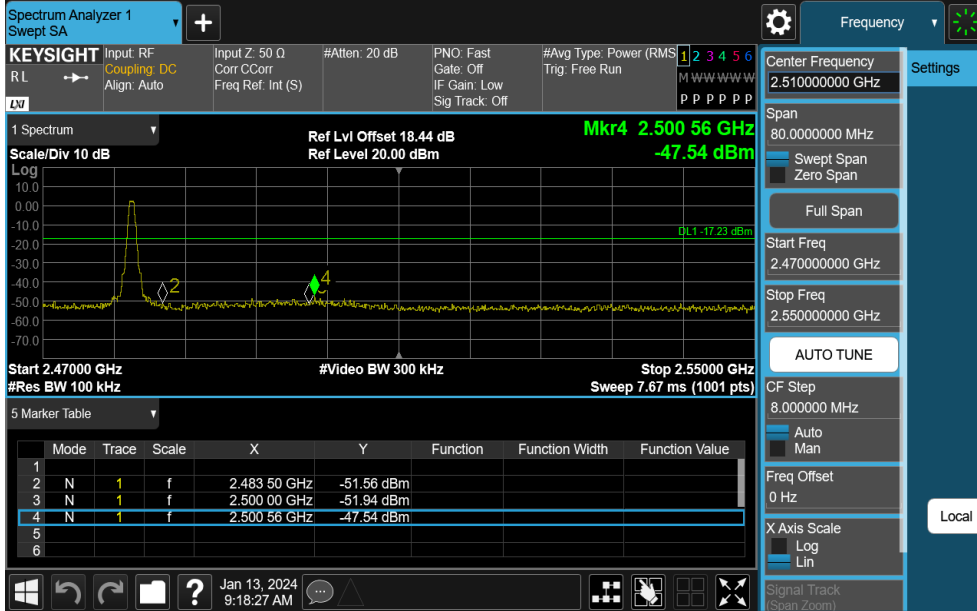
DH5-Ant1-Hop_2402-PASS



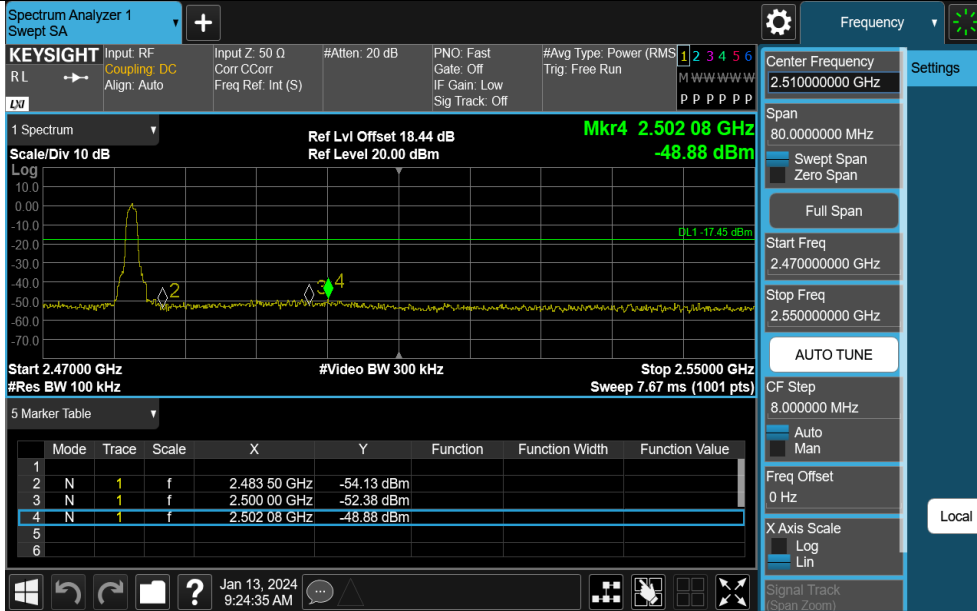
2DH5-Ant1-Hop_2402-PASS



DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS



DH5-Ant1-2402-PASS

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 20 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr C/Corr Freq Ref: Int (S) Gate: Off Trig: Free Run M WWW WWW W
 Align: Auto IF Gain: Low Sig Track: Off P P P P P P

Center Frequency 2.352500000 GHz Settings

Span 105.0000000 MHz
 Swept Span
 Zero Span
 Full Span

Start Freq 2.300000000 GHz
 Stop Freq 2.405000000 GHz

AUTO TUNE

CF Step 10.5000000 MHz
 Auto
 Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Local

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 18.60 dB Mkr5 2.399 960 GHz -49.22 dBm
 Ref Level 20.00 dBm

Log

Start 2.30000 GHz #Video BW 300 kHz Stop 2.40500 GHz
 #Res BW 100 kHz Sweep 10.1 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.400 000 GHz	-49.22 dBm			
2	N	1	f	2.390 000 GHz	-52.86 dBm			
3	N	1	f	2.310 000 GHz	-53.63 dBm			
4	N	1	f	2.399 960 GHz	-49.22 dBm			
5	N	1	f	2.399 960 GHz	-49.22 dBm			
6								

Jan 13, 2024 9:14:55 AM

2DH5-Ant1-2402-PASS

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 20 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr C/Corr Freq Ref: Int (S) Gate: Off Trig: Free Run M WWW WWW W
 Align: Auto IF Gain: Low Sig Track: Off P P P P P P

Center Frequency 2.352500000 GHz Settings

Span 105.0000000 MHz
 Swept Span
 Zero Span
 Full Span

Start Freq 2.300000000 GHz
 Stop Freq 2.405000000 GHz

AUTO TUNE

CF Step 10.5000000 MHz
 Auto
 Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Local

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 18.60 dB Mkr5 2.383 790 GHz -49.03 dBm
 Ref Level 20.00 dBm

Log

Start 2.30000 GHz #Video BW 300 kHz Stop 2.40500 GHz
 #Res BW 100 kHz Sweep 10.1 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.400 000 GHz	-49.27 dBm			
2	N	1	f	2.390 000 GHz	-51.52 dBm			
3	N	1	f	2.310 000 GHz	-53.94 dBm			
4	N	1	f	2.383 790 GHz	-49.03 dBm			
5	N	1	f	2.383 790 GHz	-49.03 dBm			
6								

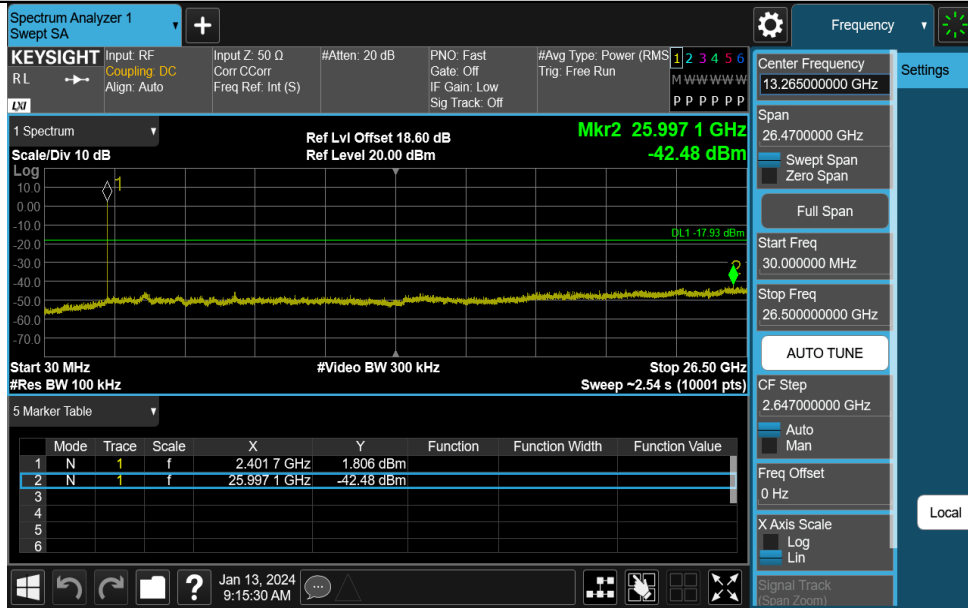
Jan 13, 2024 9:21:17 AM

Appendix G: Conducted Spurious Emission Test Result

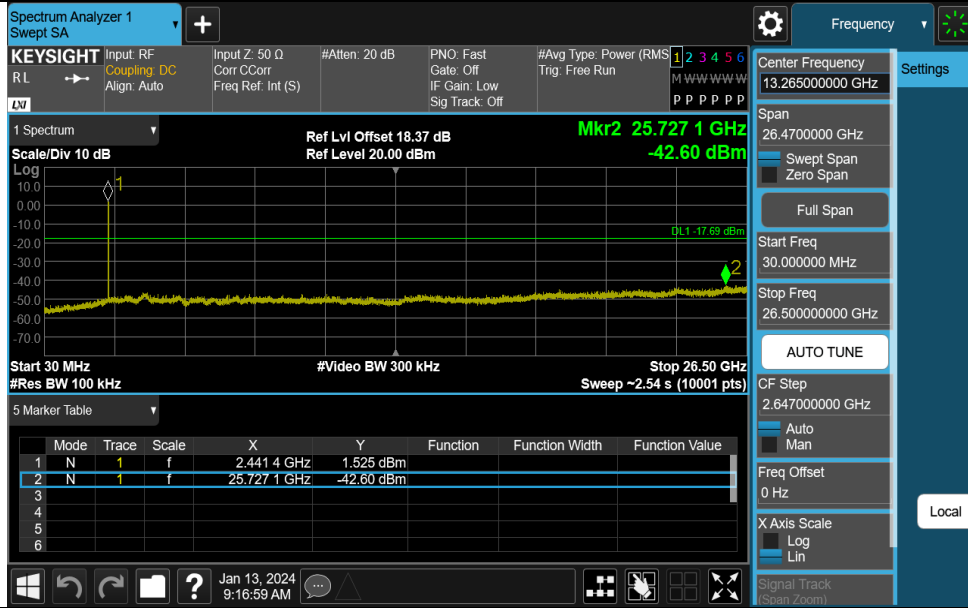
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~26500	2.07	-42.49	≤-17.93	PASS
DH5	Ant1	2441	30~26500	2.31	-42.6	≤-17.69	PASS
DH5	Ant1	2480	30~26500	2.77	-43.08	≤-17.23	PASS
2DH5	Ant1	2402	30~26500	2.52	-42.34	≤-17.48	PASS
2DH5	Ant1	2441	30~26500	2.52	-42.52	≤-17.48	PASS
2DH5	Ant1	2480	30~26500	2.55	-42.43	≤-17.45	PASS

Test Graphs

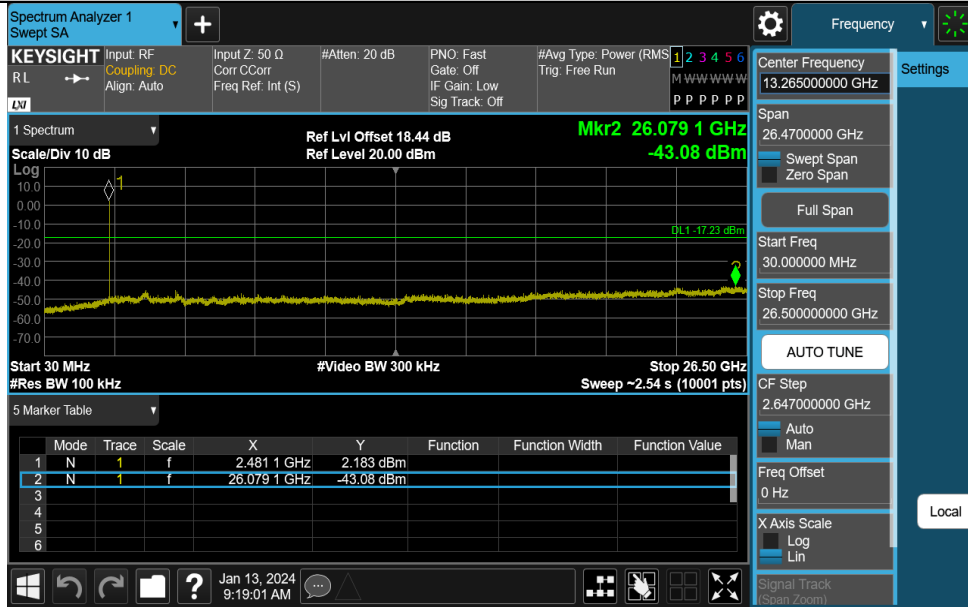
DH5-Ant1-2402-30~26500-PASS

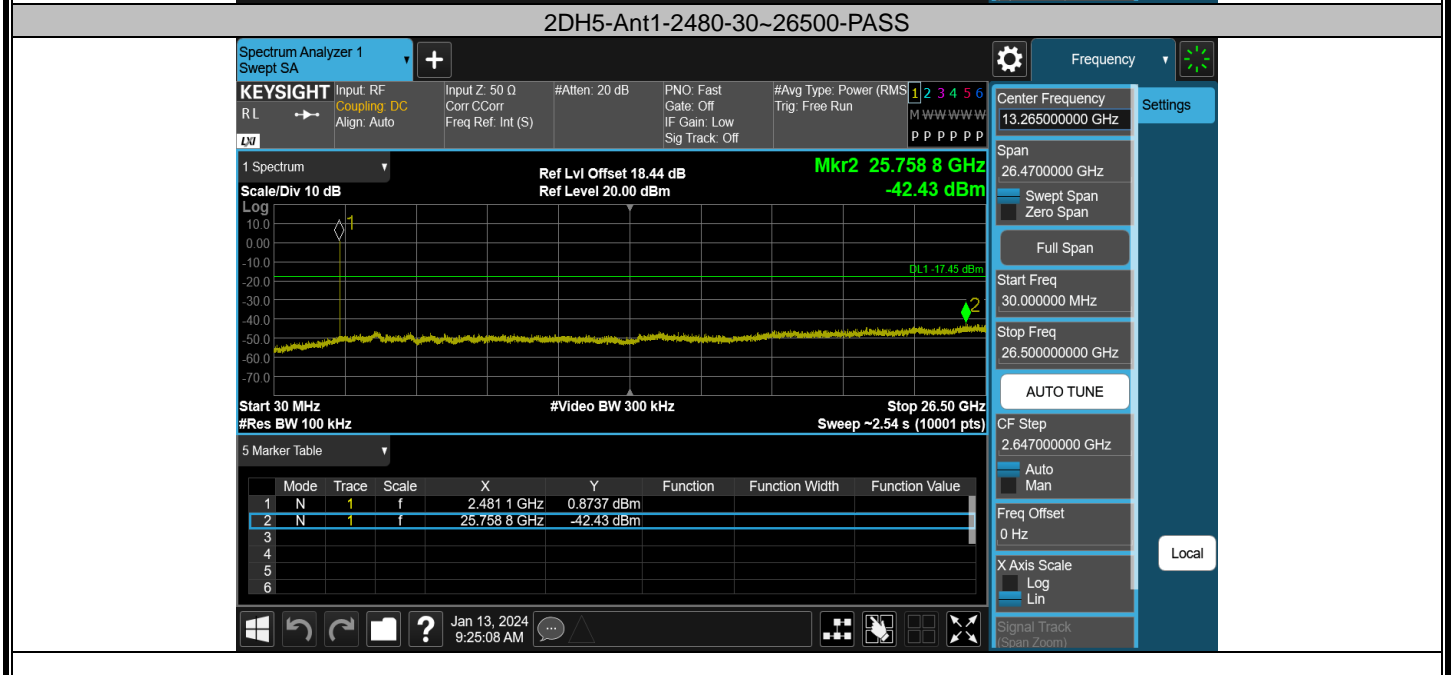
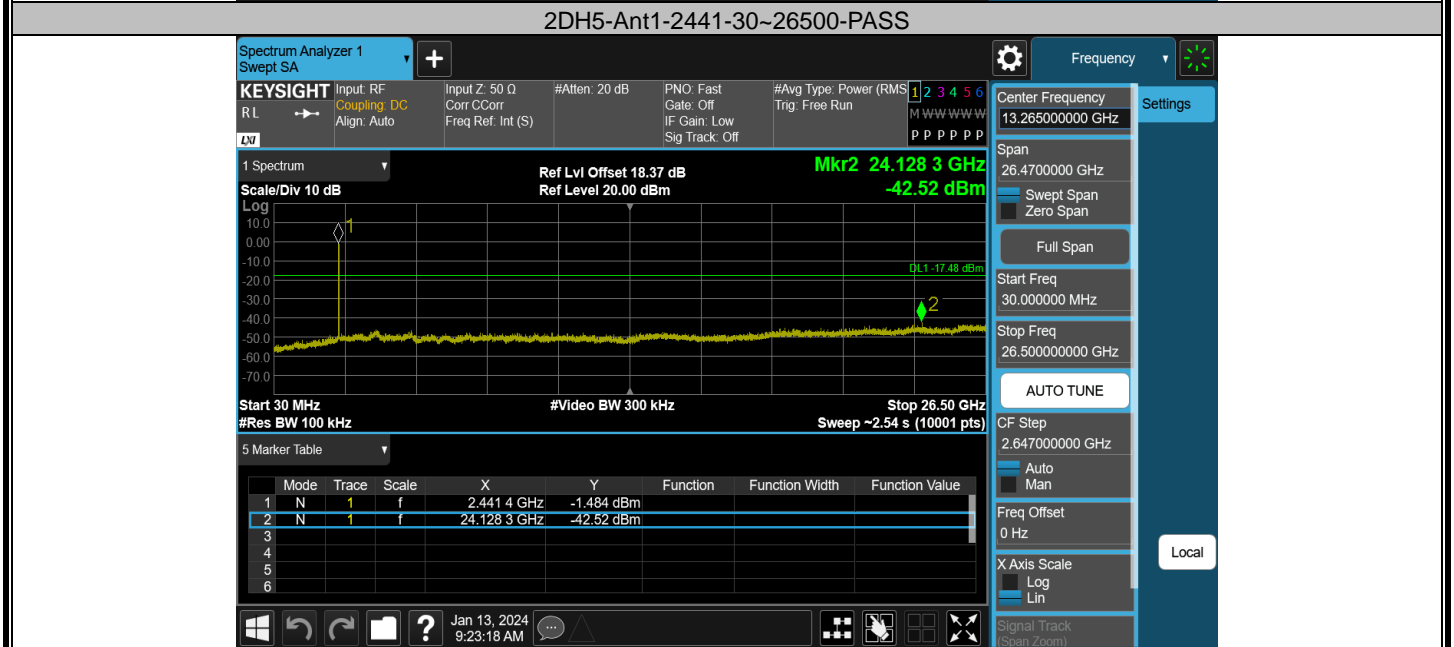
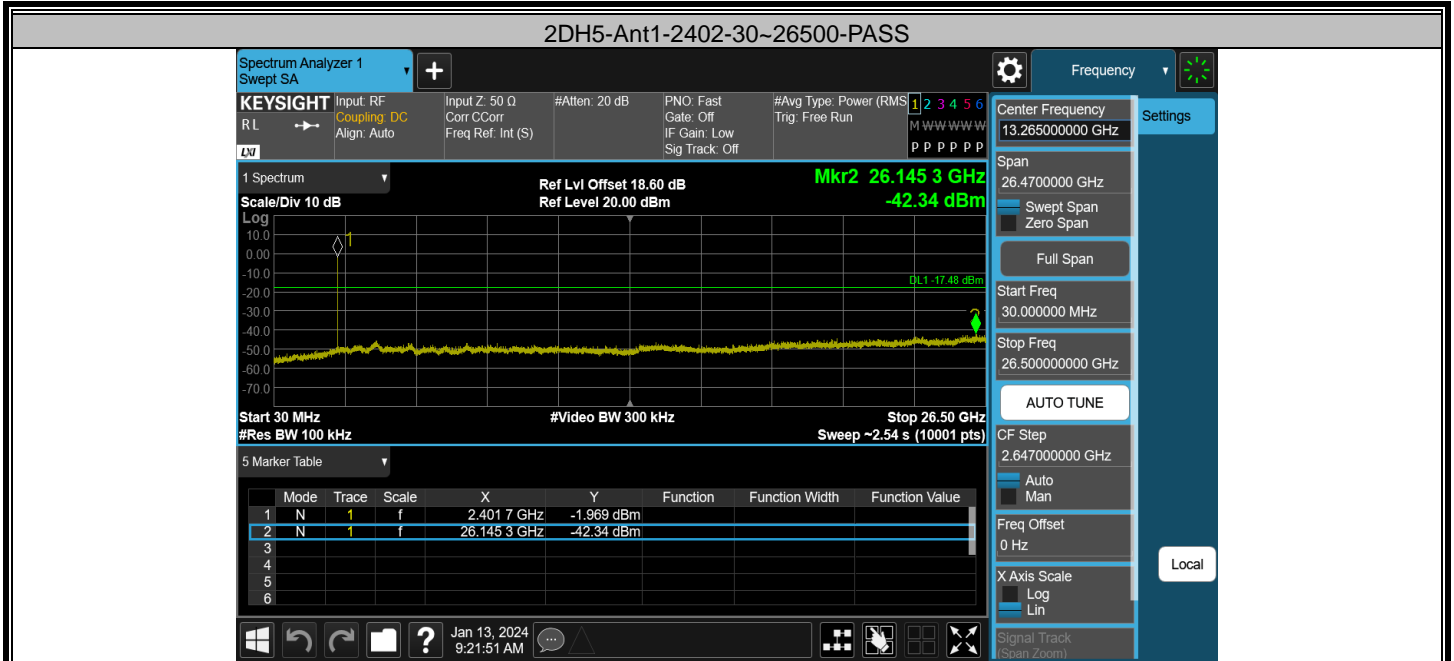


DH5-Ant1-2441-30~26500-PASS



DH5-Ant1-2480-30~26500-PASS



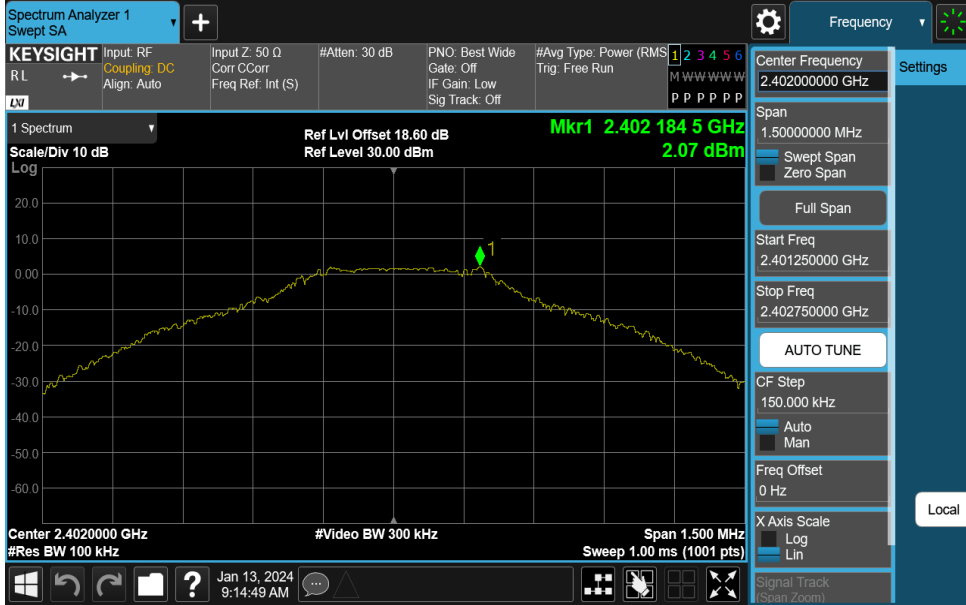


Appendix H: Reference level measurement Test Result

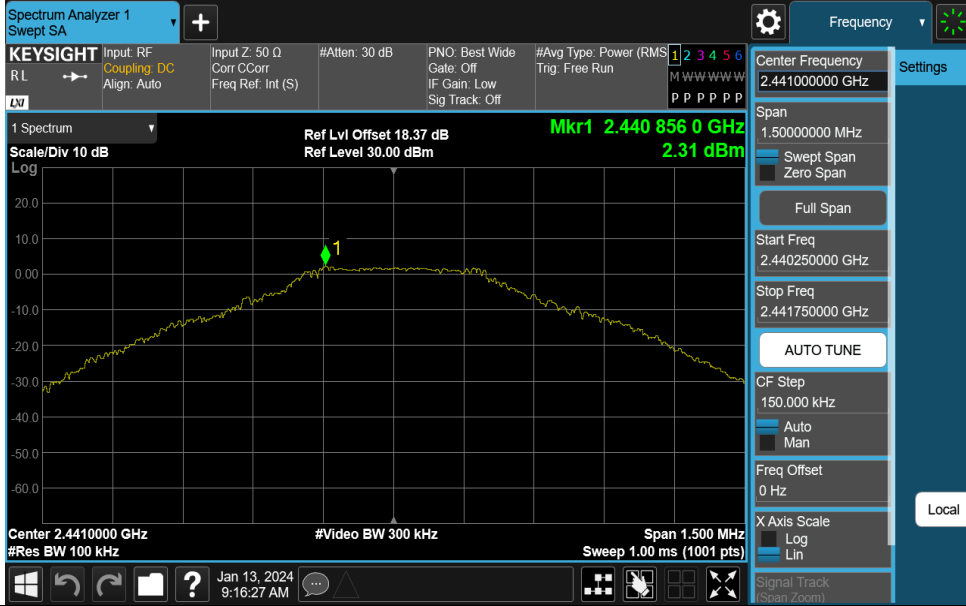
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2402.18	2.07
DH5	Ant1	2441	2440.86	2.31
DH5	Ant1	2480	2480.00	2.77
2DH5	Ant1	2402	2402.01	2.52
2DH5	Ant1	2441	2441.00	2.52
2DH5	Ant1	2480	2479.85	2.55

Test Graphs

DH5-Ant1-2402-PASS



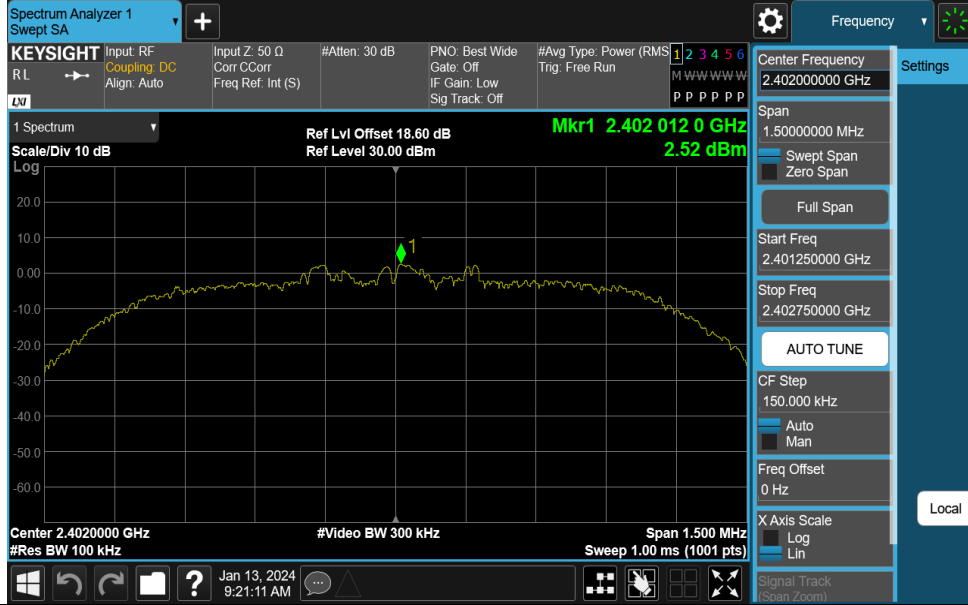
DH5-Ant1-2441-PASS



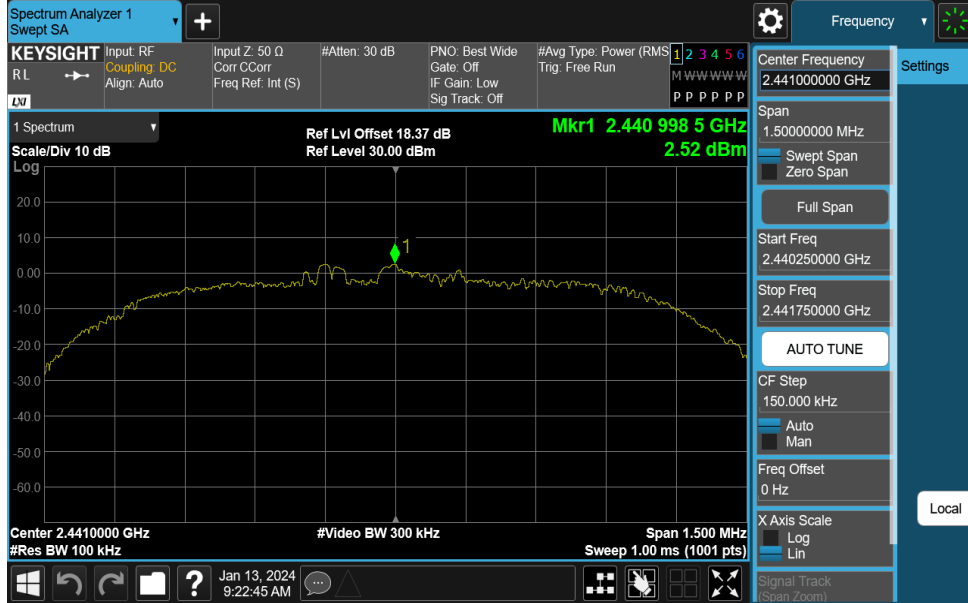
DH5-Ant1-2480-PASS



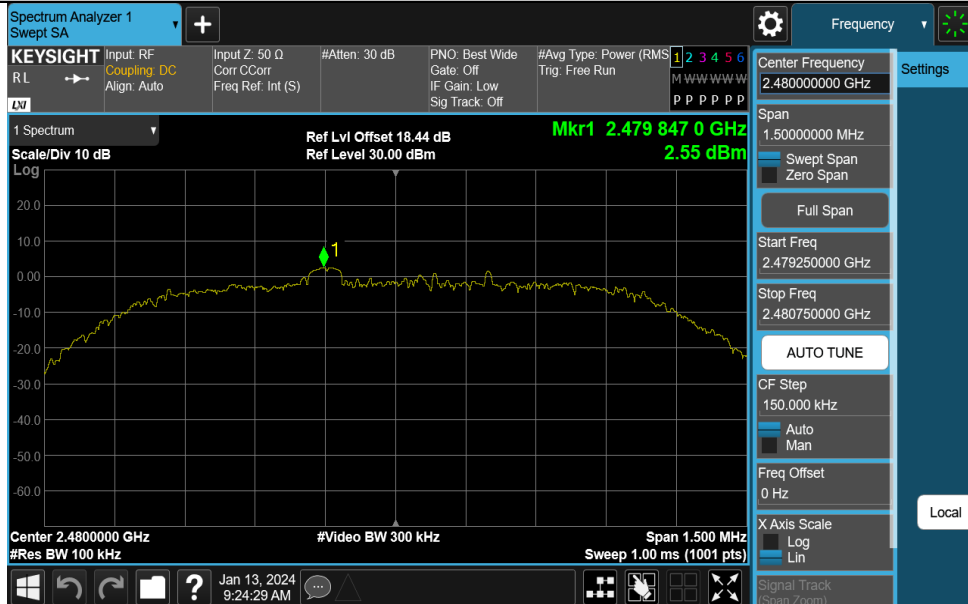
2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS

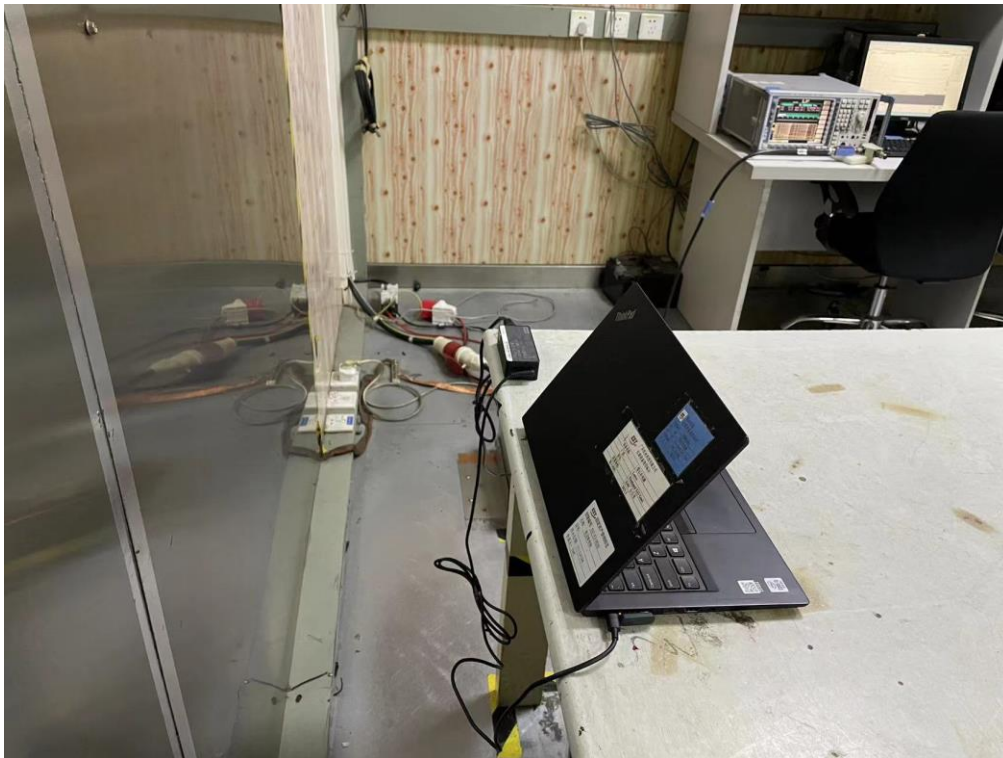
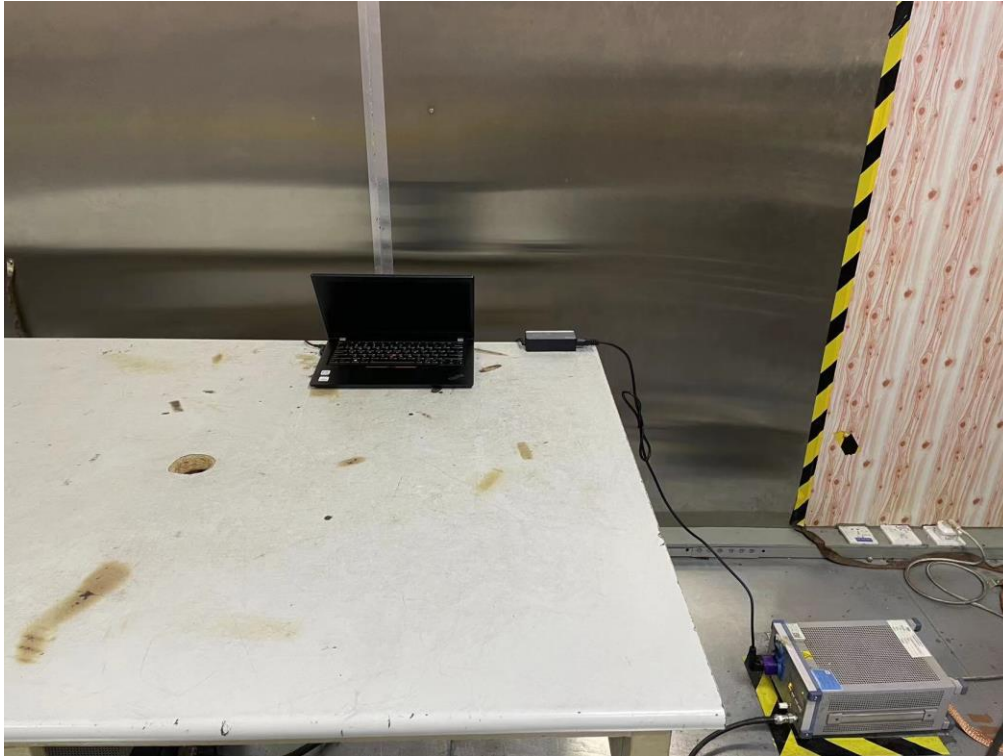


2DH5-Ant1-2480-PASS

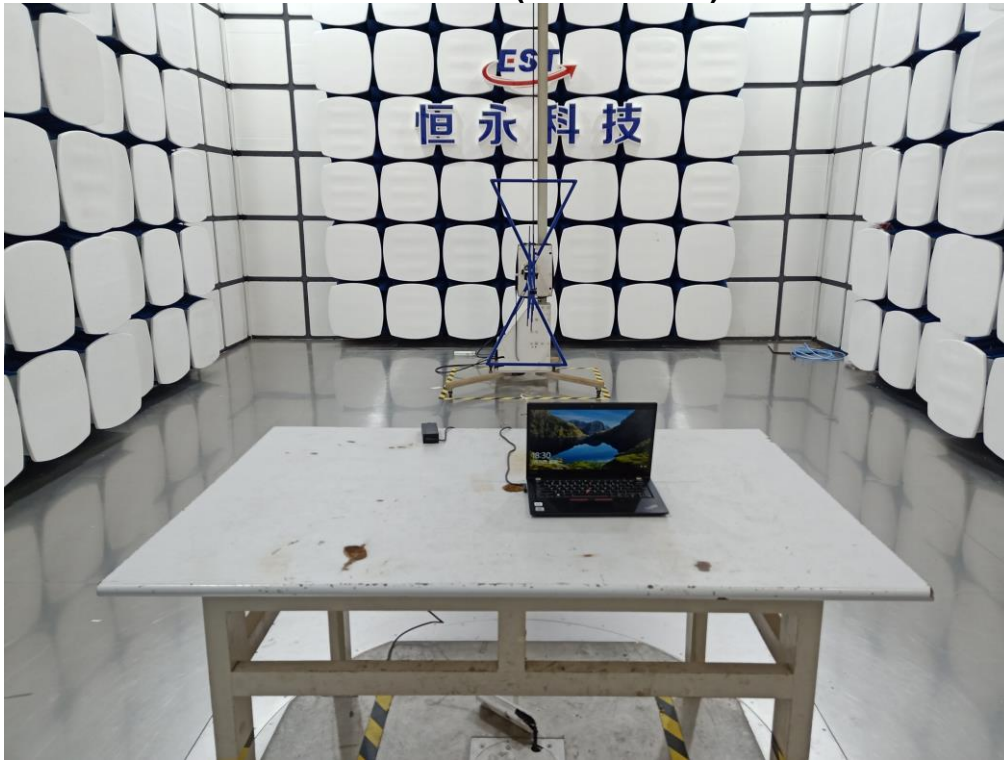


14. TEST SETUP PHOTO

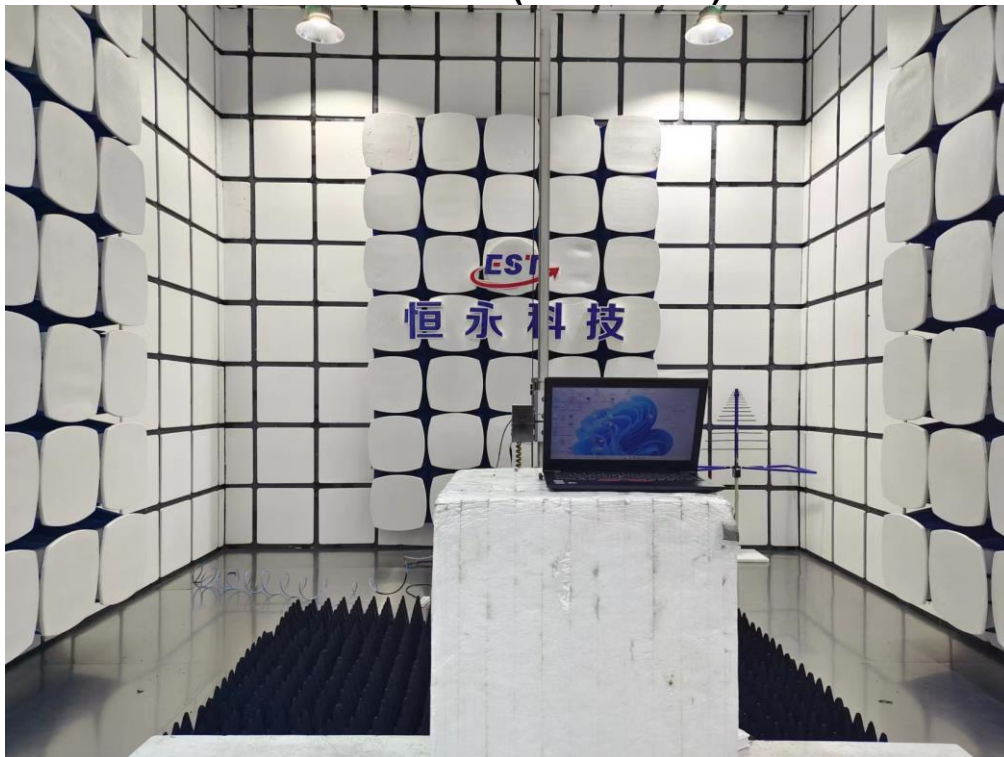
Conducted Test



Radiated Test (Below 1GHz)

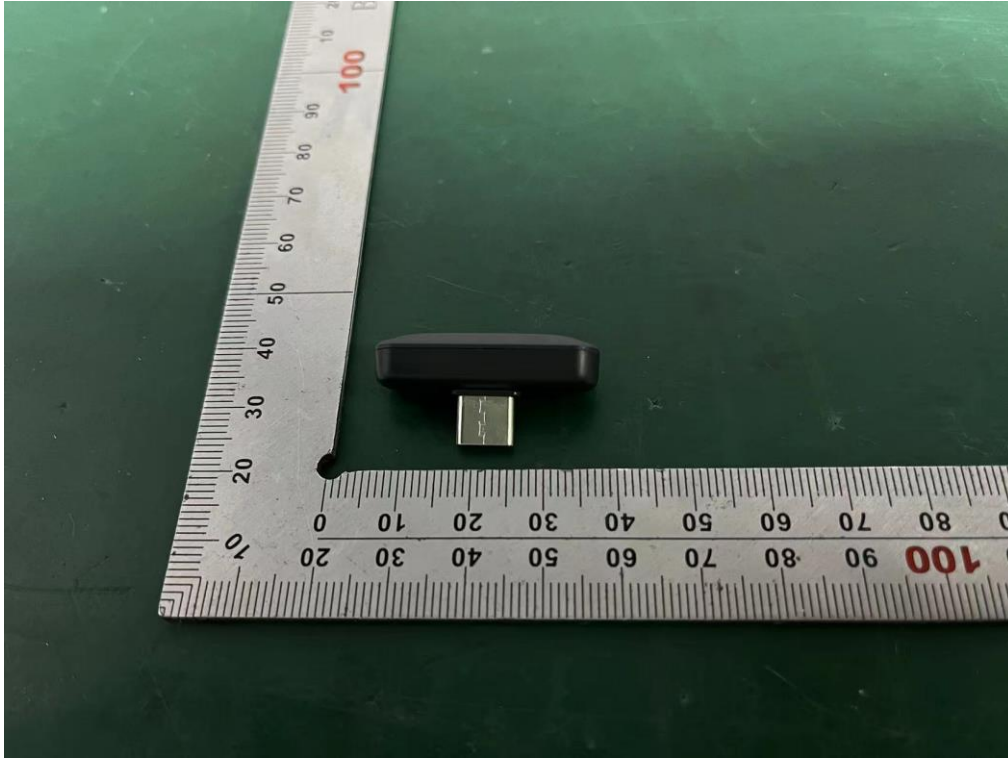


Radiated Test (Above 1GHz)



15. EUT PHOTO

External Photos
M/N: TW970D



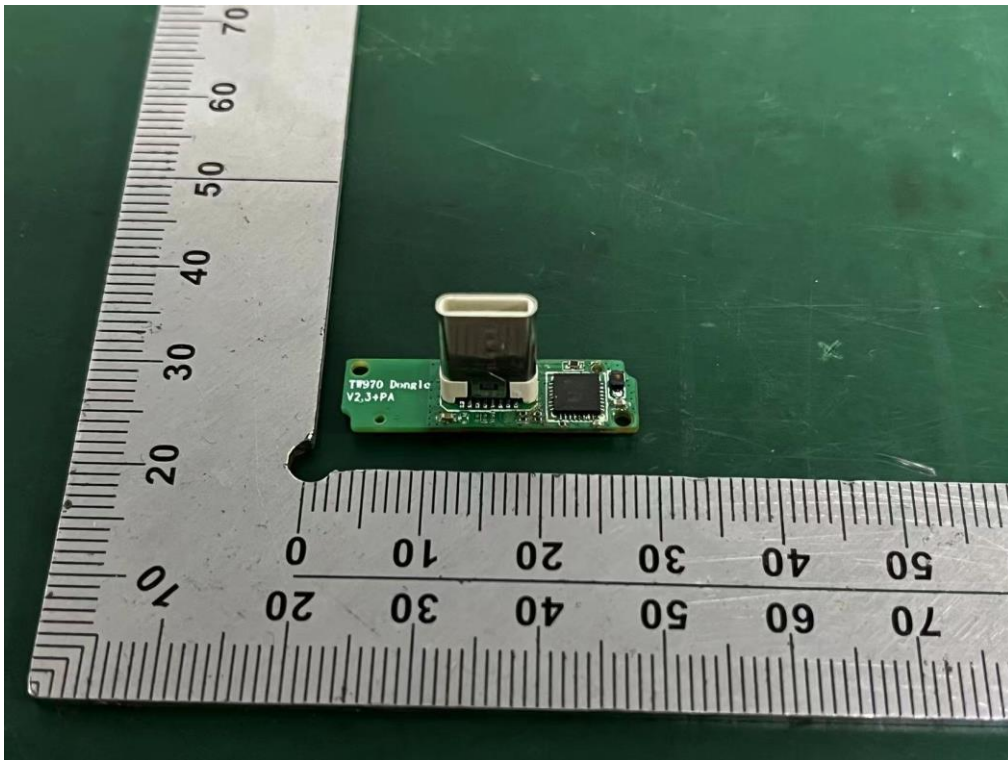
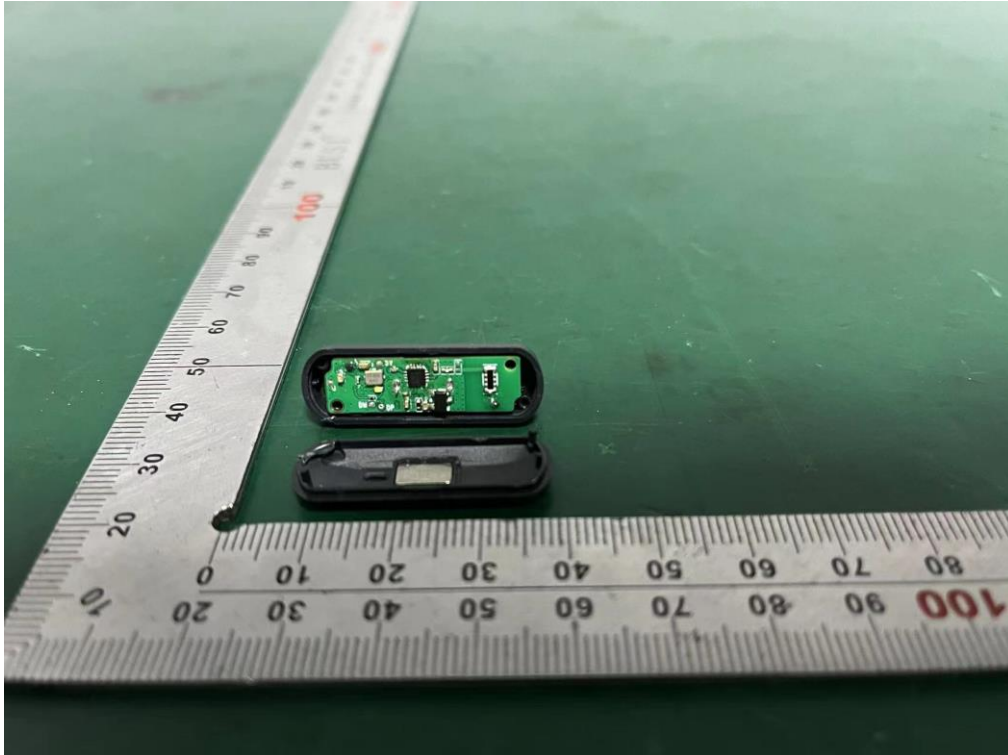
External Photos
M/N: TW970D



External Photos
M/N: TW970D



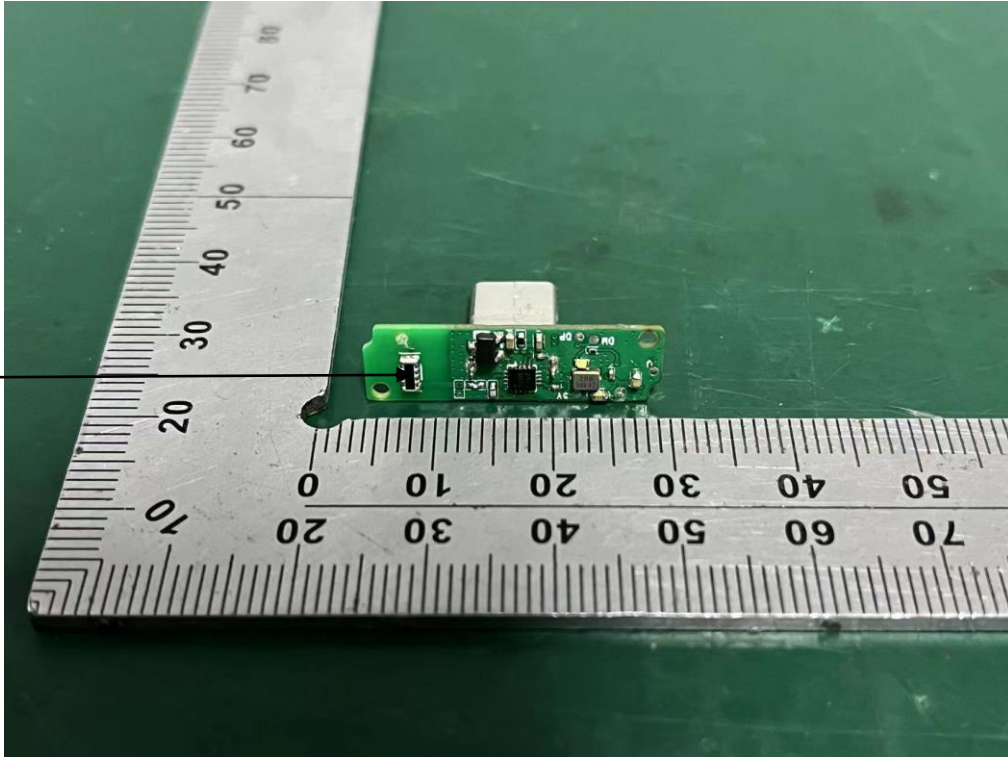
Internal Photos
M/N: TW970D



Internal Photos

M/N: TW970D

Bluetooth
Antenna



End of Test Report