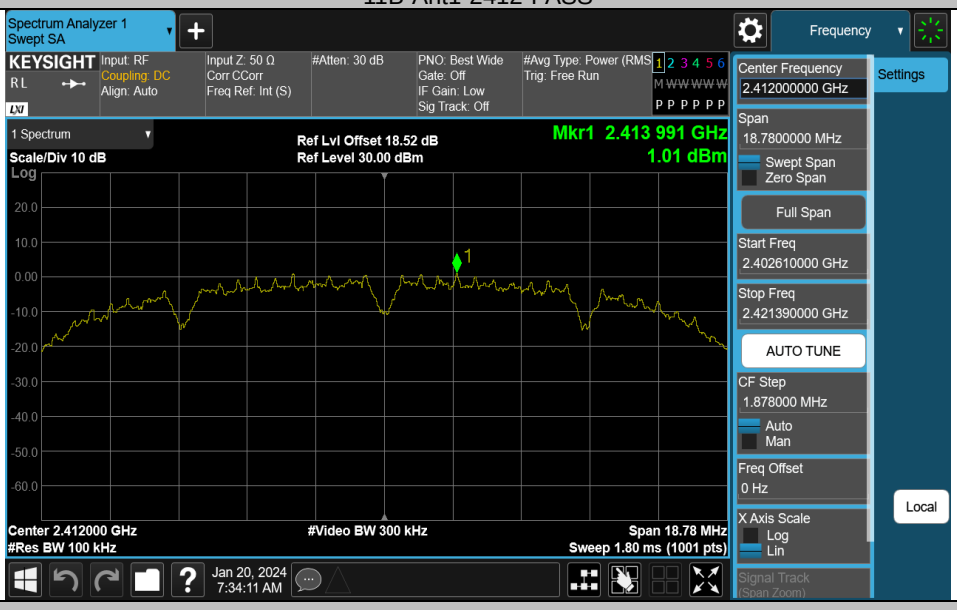
Appendix E: Reference level measurement

Test Result

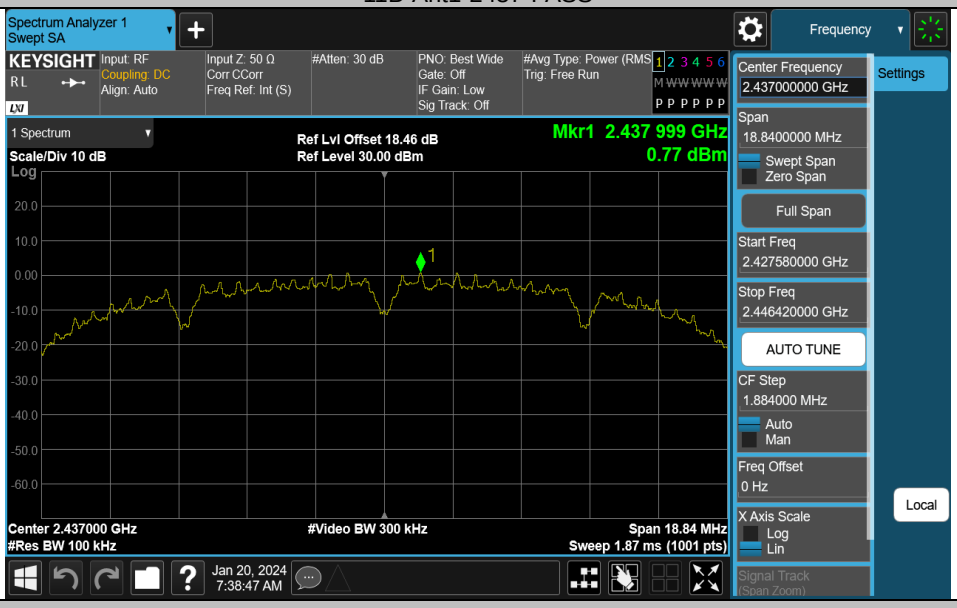
Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2413.99	1.01
11B	Ant1	2437	2438.00	0.77
11B	Ant1	2462	2463.50	1.24
11G	Ant1	2412	2415.77	-4.76
11G	Ant1	2437	2442.03	-5.34
11G	Ant1	2462	2467.01	-4.49
11N20SISO	Ant1	2412	2413.29	-4.91
11N20SISO	Ant1	2437	2439.48	-5.32
11N20SISO	Ant1	2462	2469.52	-5.31

Test Graphs

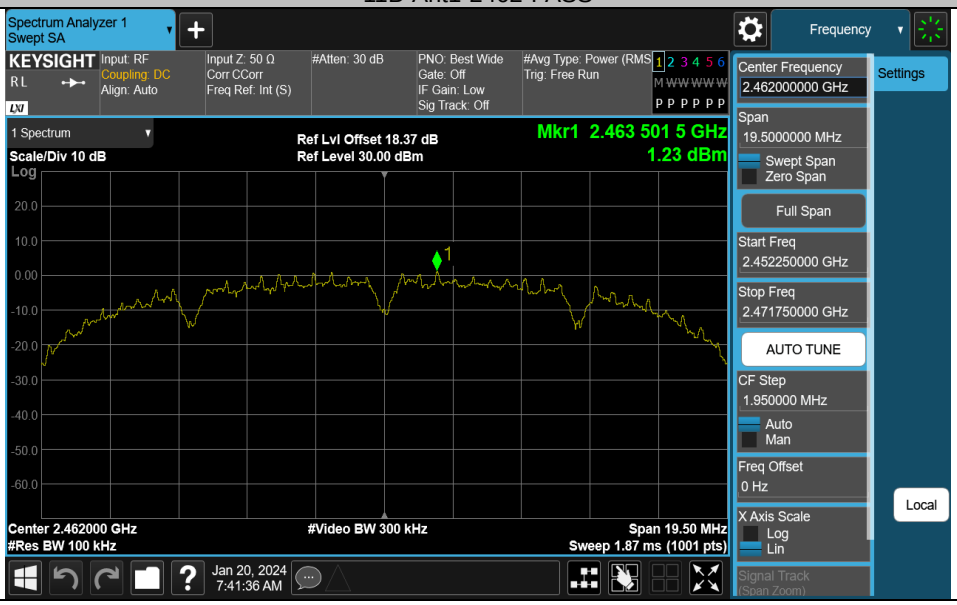
11B-Ant1-2412-PASS



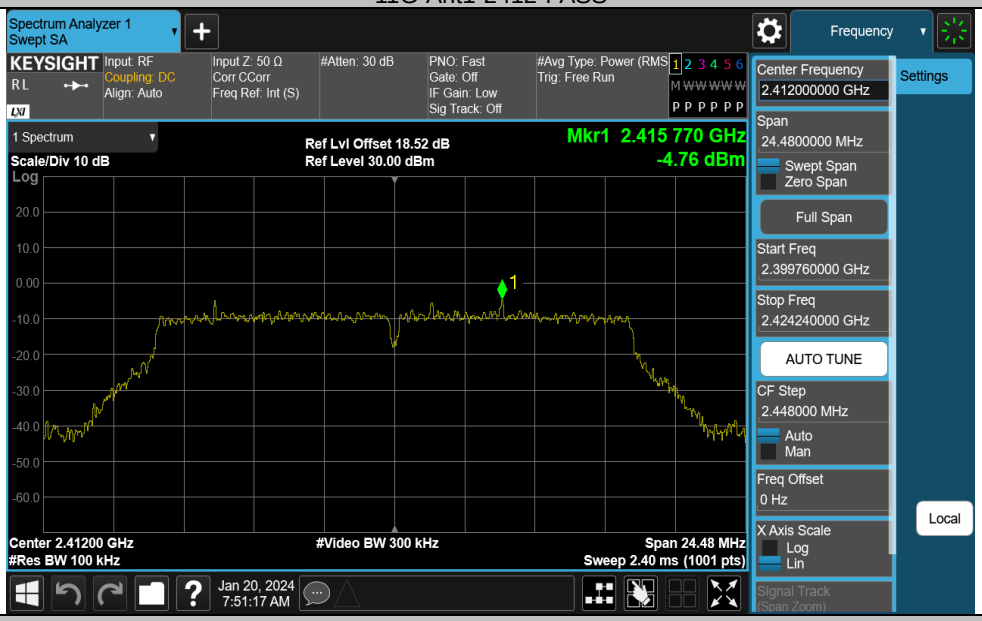
11B-Ant1-2437-PASS



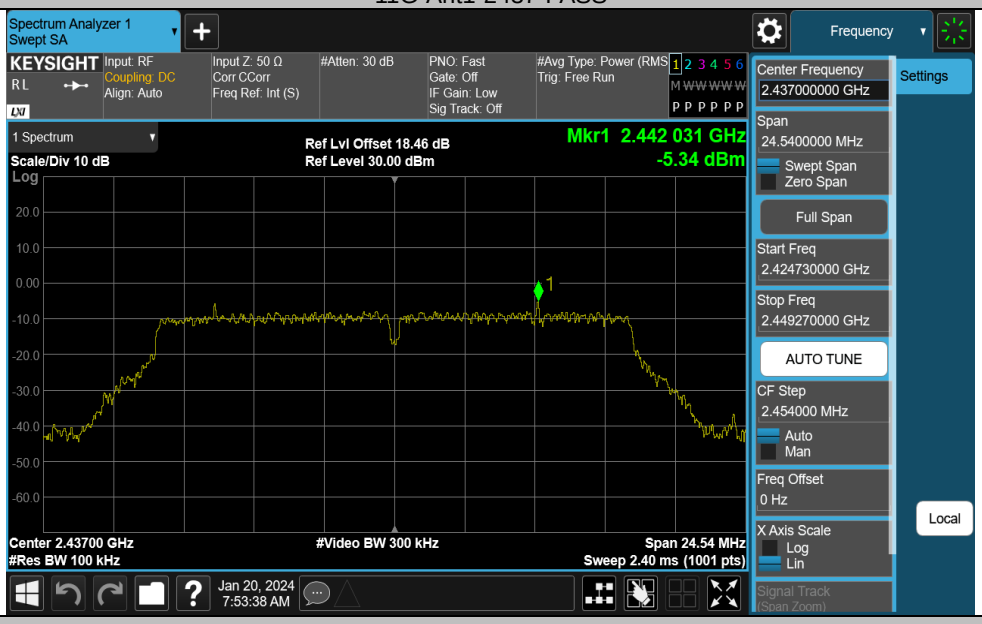
11B-Ant1-2462-PASS



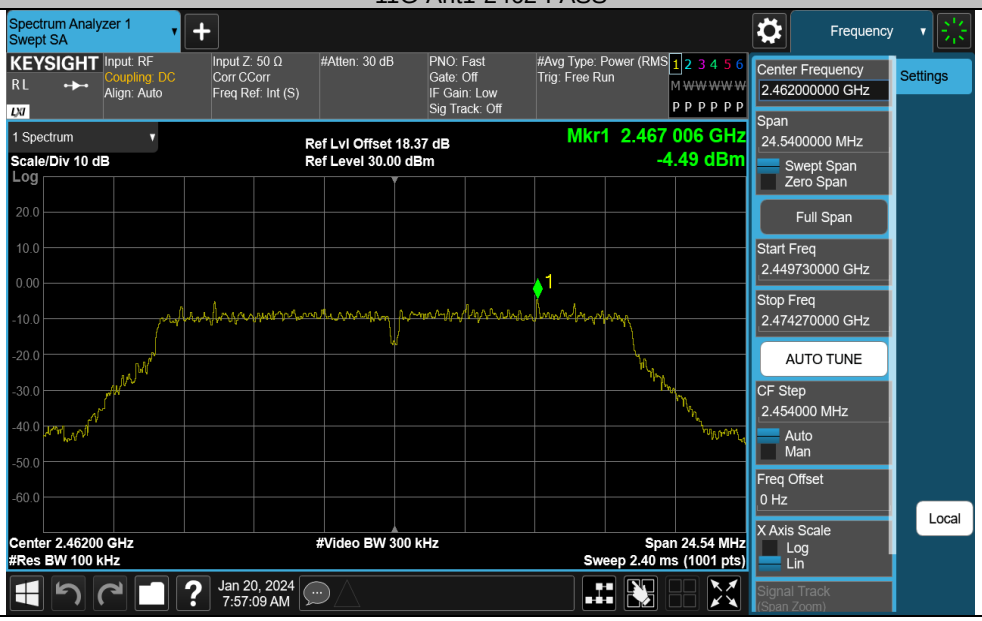
11G-Ant1-2412-PASS



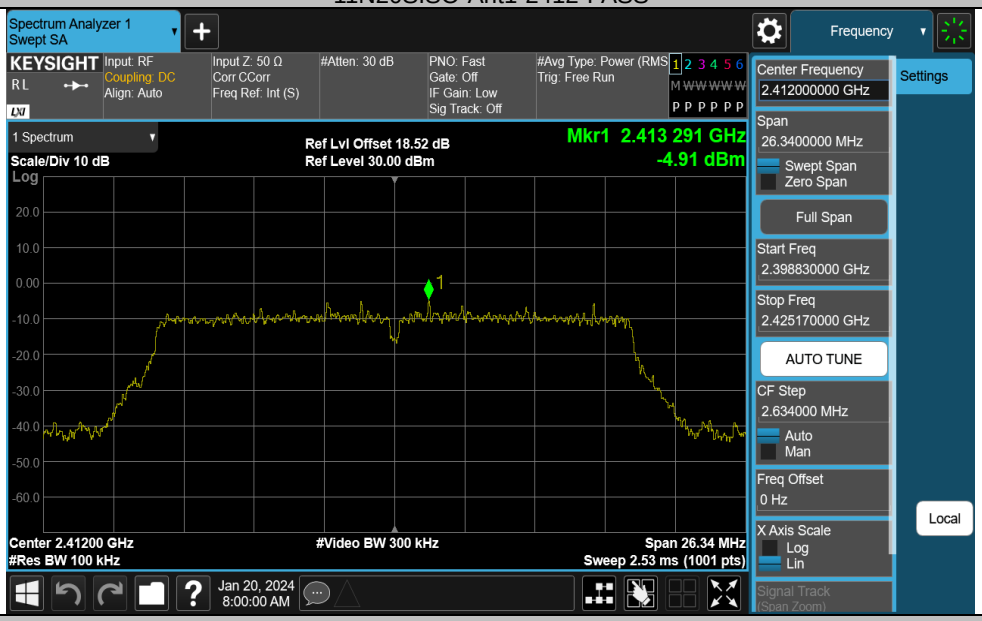
11G-Ant1-2437-PASS



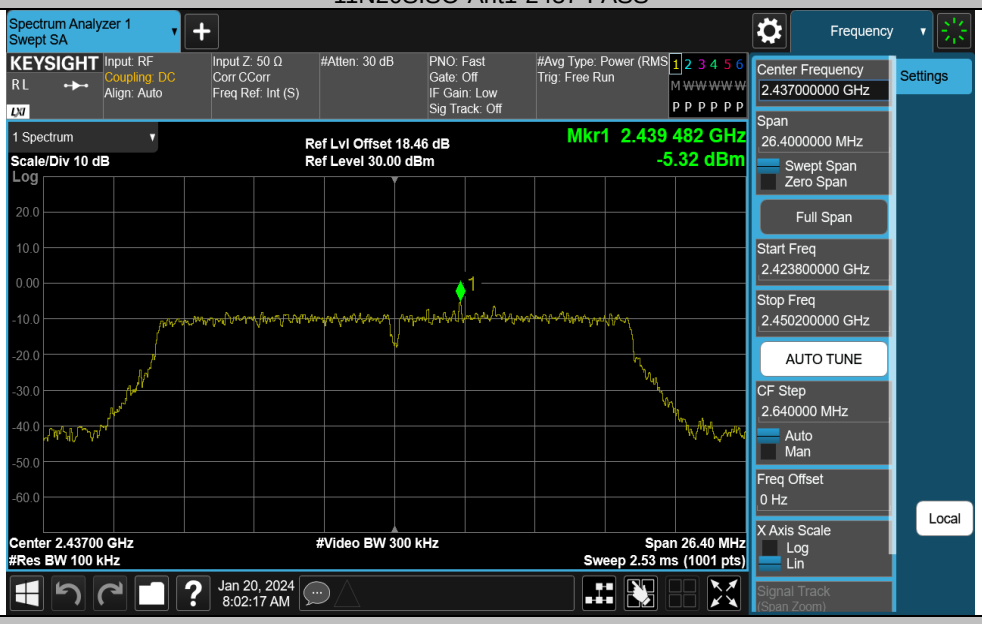
11G-Ant1-2462-PASS



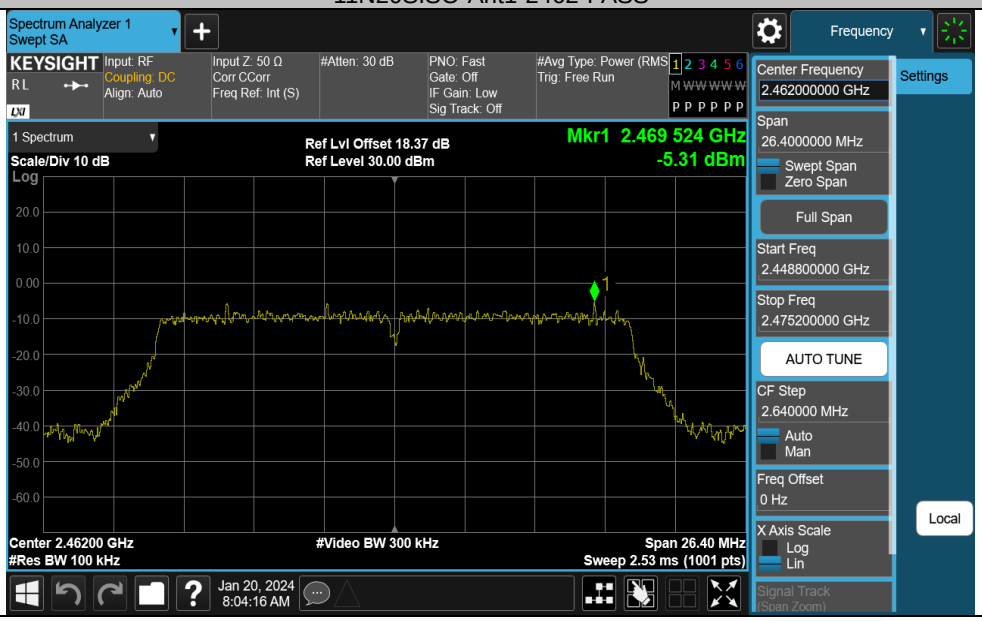
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS



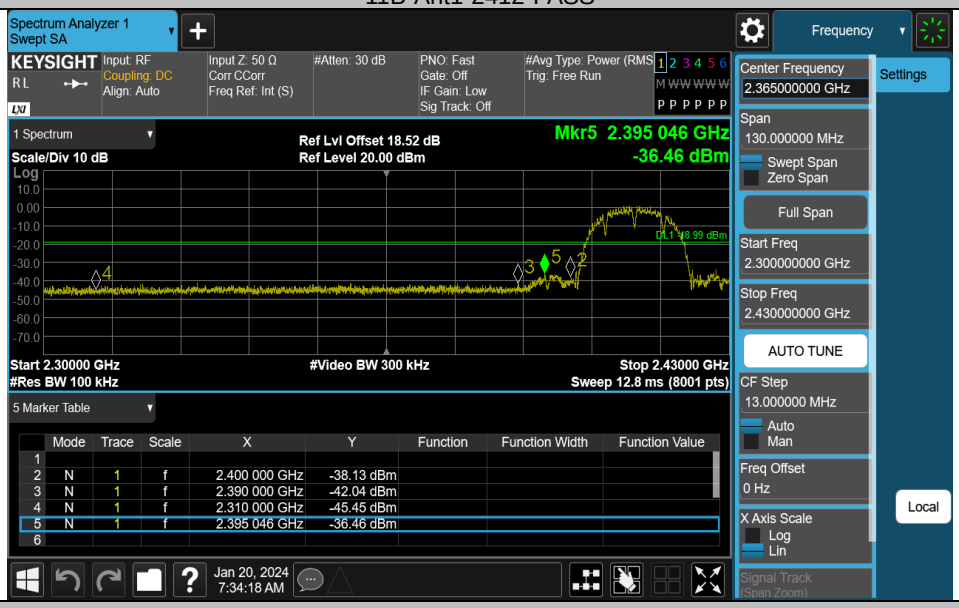
Appendix F: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.01	-36.46	≤-18.99	PASS
11B	Ant1	High	2462	1.24	-39.66	≤-18.76	PASS
11G	Ant1	Low	2412	-4.76	-40.28	≤-24.76	PASS
11G	Ant1	High	2462	-4.49	-40.73	≤-24.49	PASS
11N20SISO	Ant1	Low	2412	-4.91	-40.2	≤-24.91	PASS
11N20SISO	Ant1	High	2462	-5.31	-40.64	≤-25.31	PASS

Test Graphs

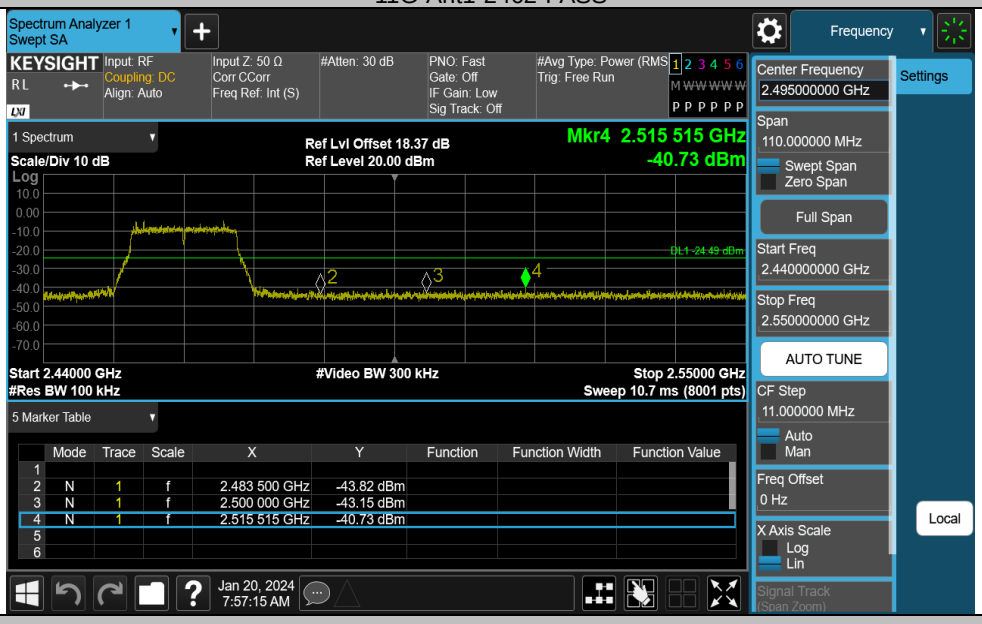
11B-Ant1-2412-PASS



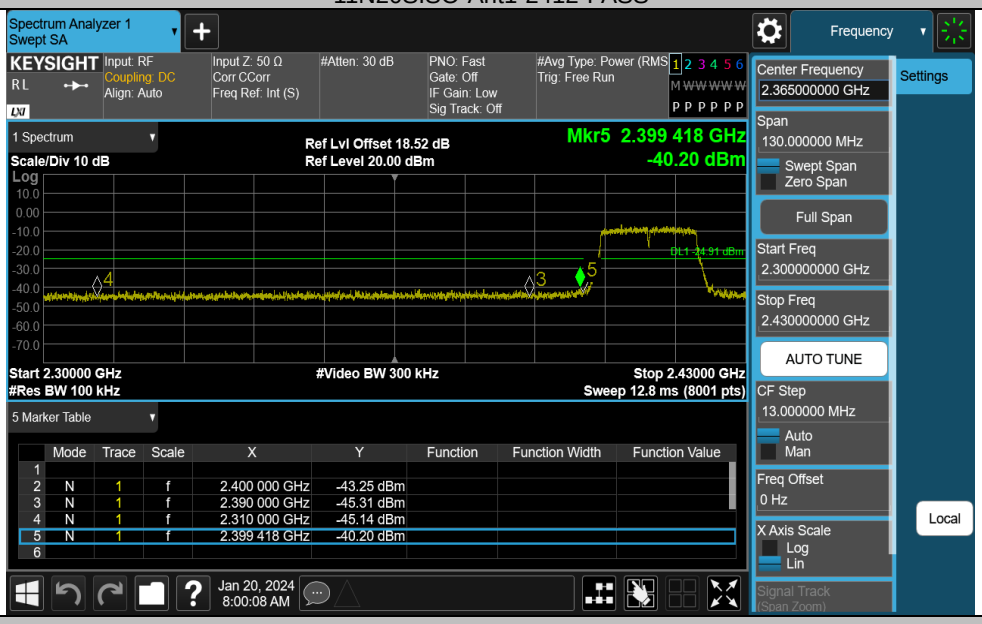
11B-Ant1-2462-PASS

11G-Ant1-2412-PASS

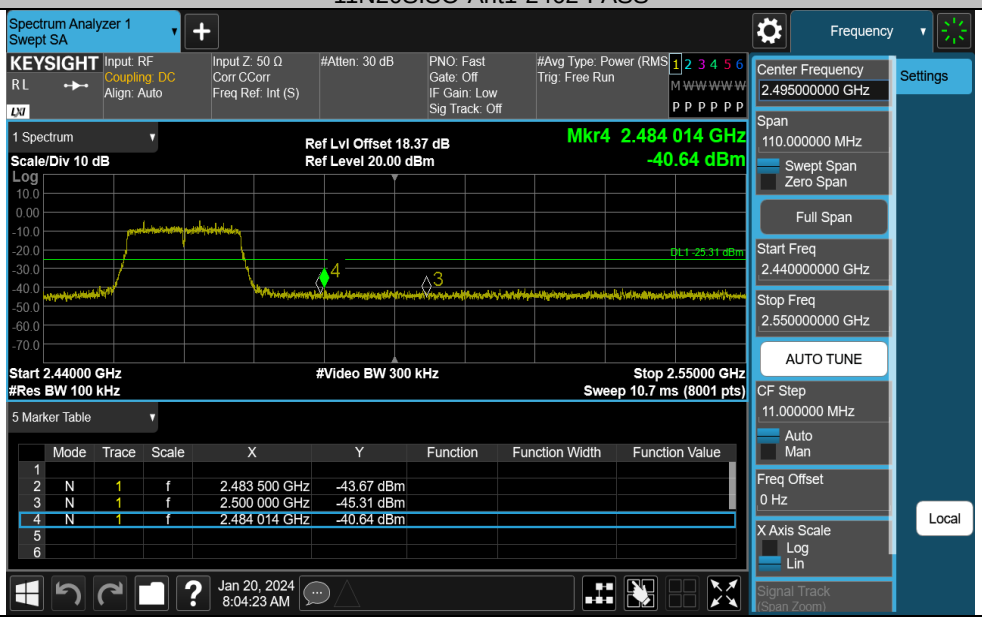
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



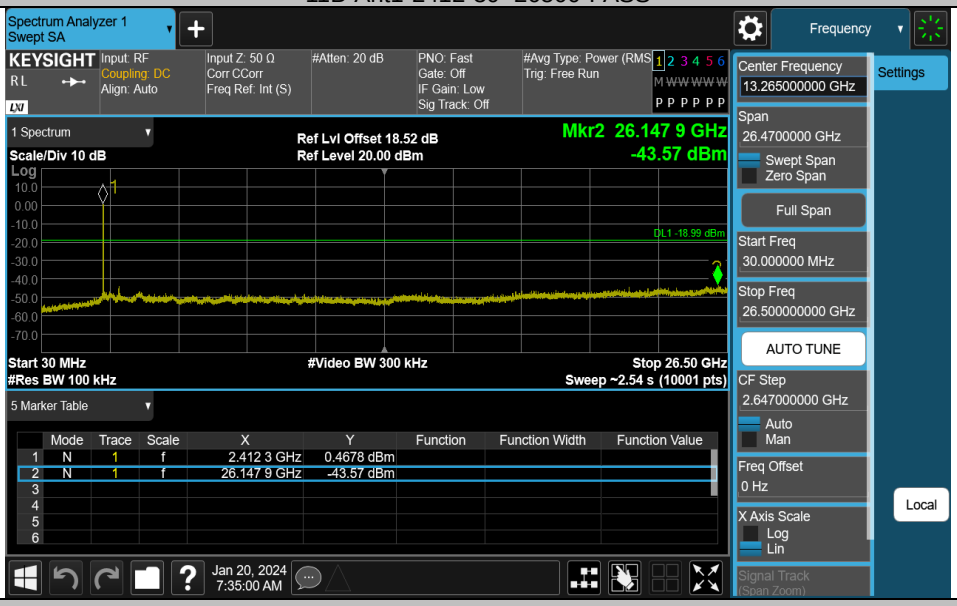
Appendix G: Conducted Spurious Emission

Test Result

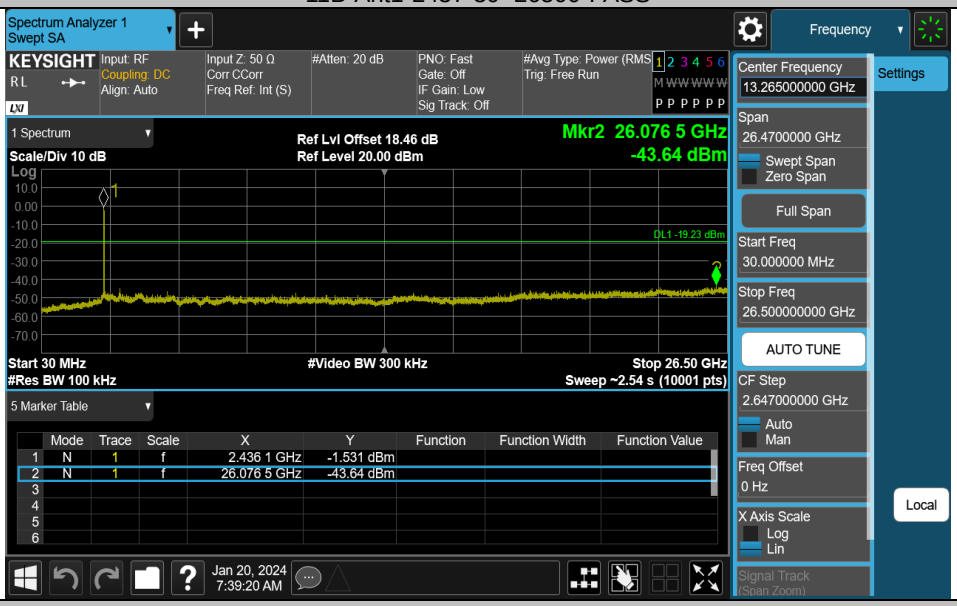
Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~26500	1.01	-43.57	≤-18.99	PASS
11B	Ant1	2437	30~26500	0.77	-43.64	≤-19.23	PASS
11B	Ant1	2462	30~26500	1.24	-43.89	≤-18.76	PASS
11G	Ant1	2412	30~26500	-4.76	-43.06	≤-24.76	PASS
11G	Ant1	2437	30~26500	-5.34	-42.63	≤-25.34	PASS
11G	Ant1	2462	30~26500	-4.49	-43	≤-24.49	PASS
11N20SISO	Ant1	2412	30~26500	-4.91	-43.27	≤-24.91	PASS
11N20SISO	Ant1	2437	30~26500	-5.32	-41.98	≤-25.32	PASS
11N20SISO	Ant1	2462	30~26500	-5.31	-42.63	≤-25.31	PASS

Test Graphs

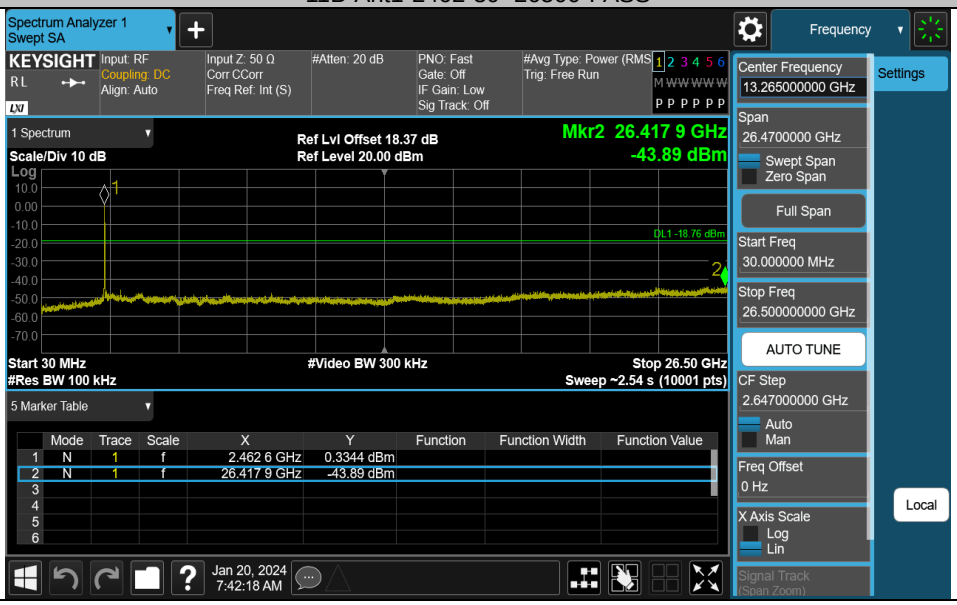
11B-Ant1-2412-30~26500-PASS



11B-Ant1-2437-30~26500-PASS

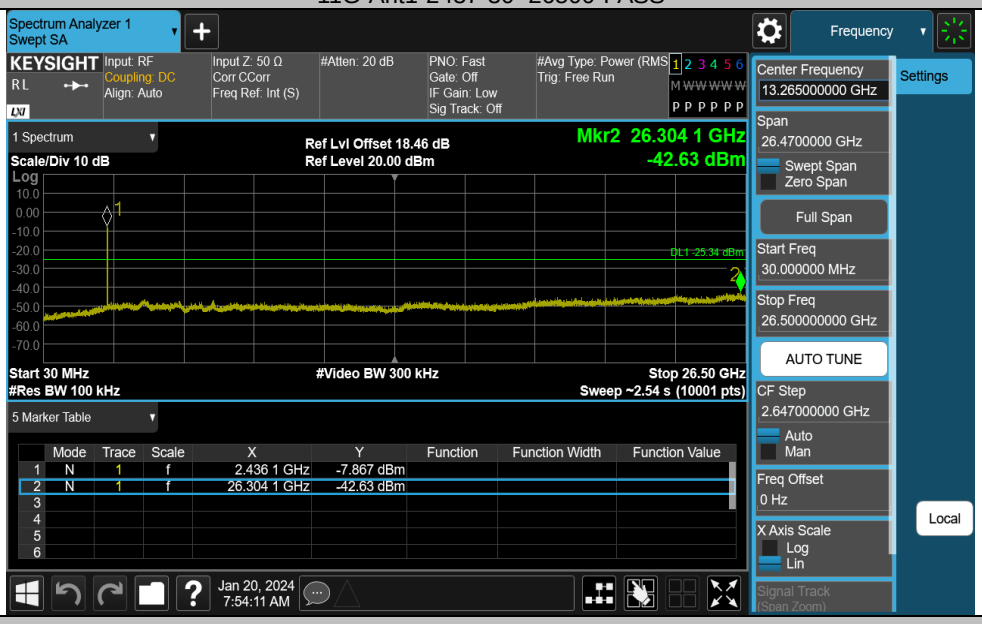


11B-Ant1-2462-30~26500-PASS

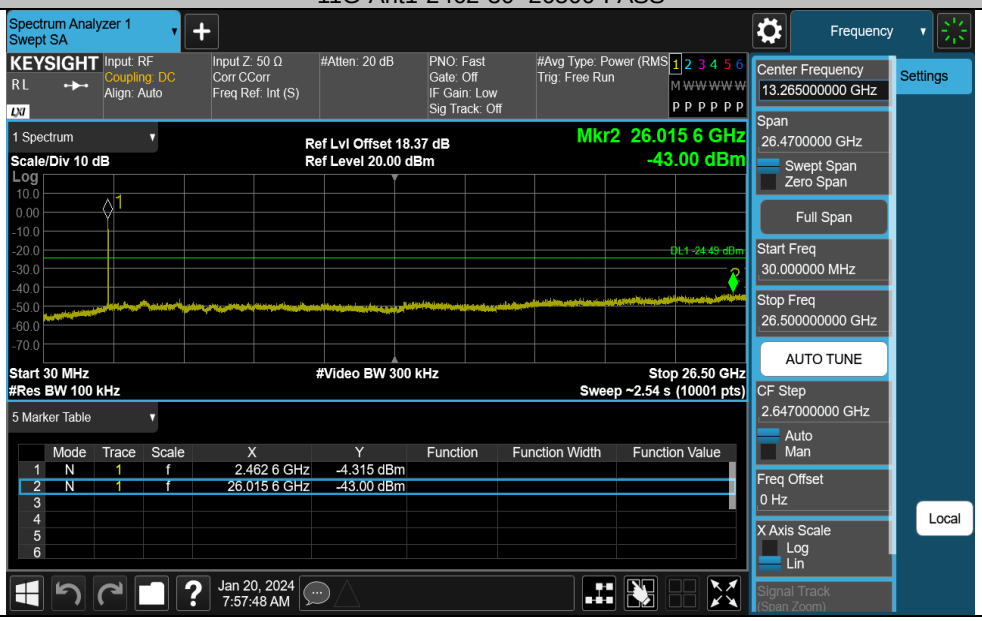


11G-Ant1-2412-30~26500-PASS

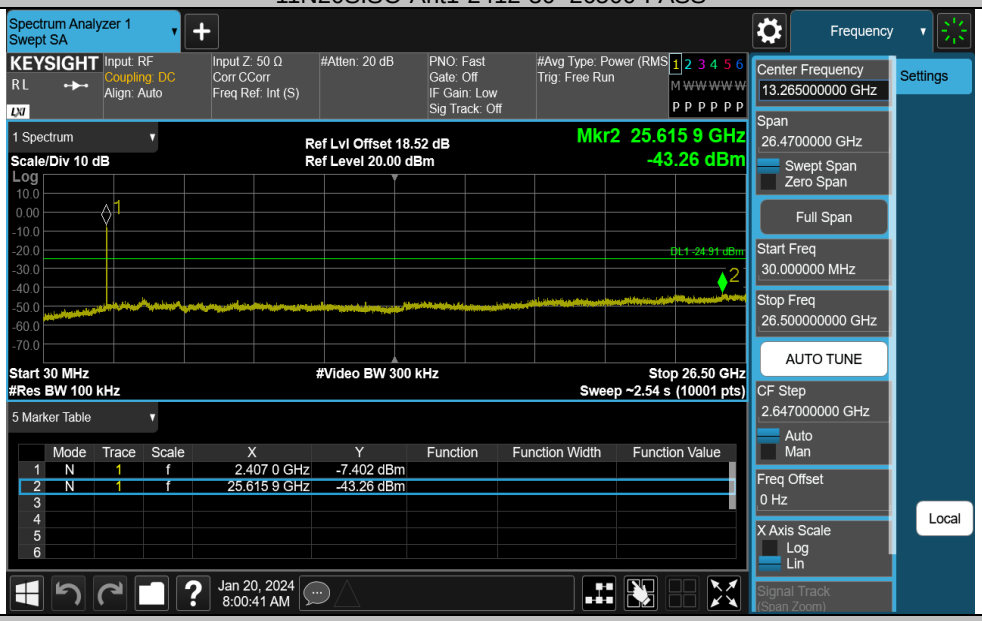
11G-Ant1-2437-30~26500-PASS



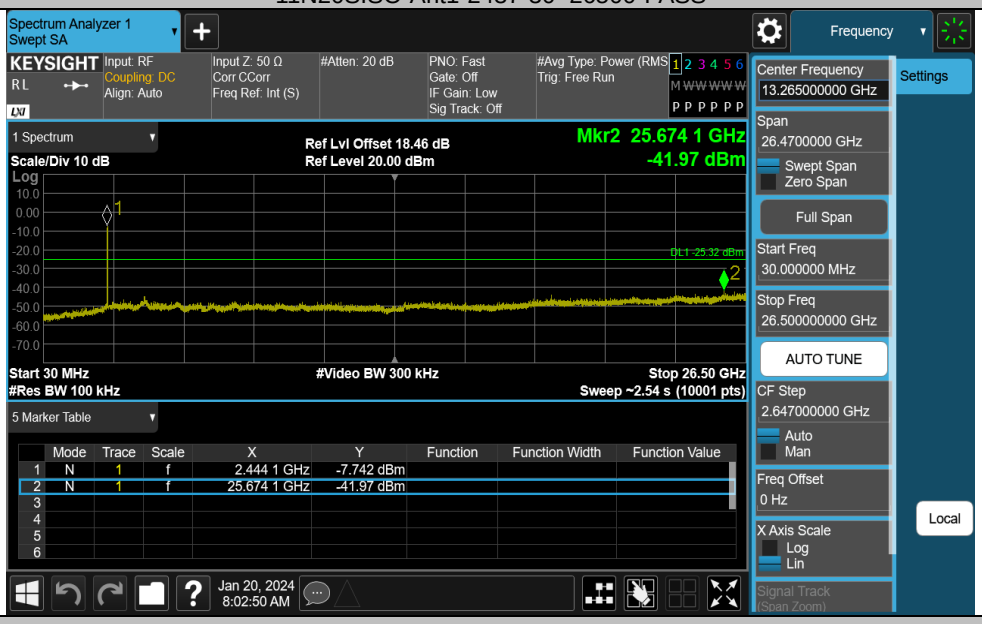
11G-Ant1-2462-30~26500-PASS



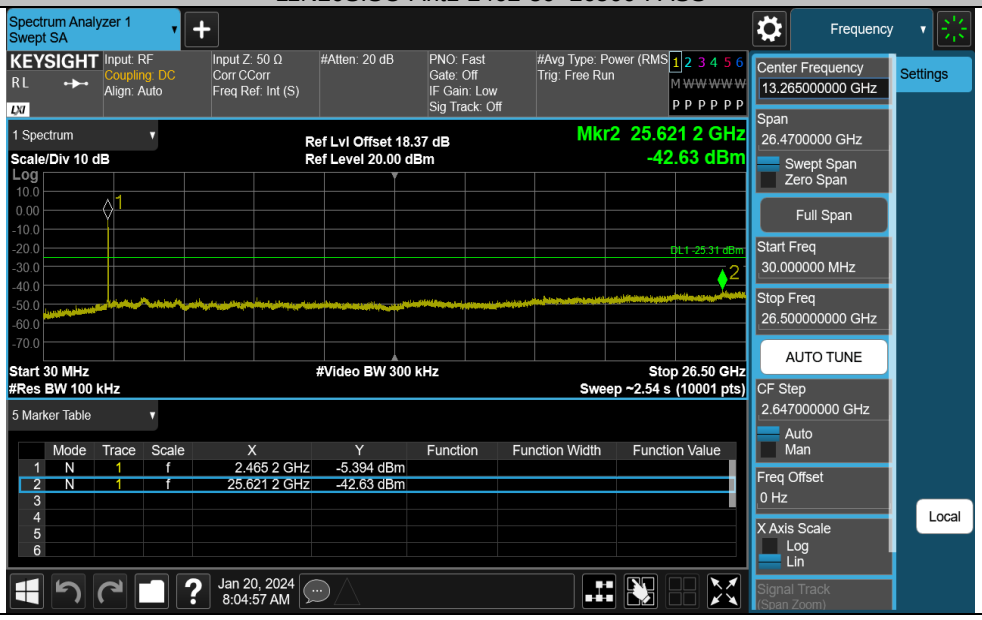
11N20SISO-Ant1-2412-30~26500-PASS



11N20SISO-Ant1-2437-30~26500-PASS



11N20SISO-Ant1-2462-30~26500-PASS



Appendix H: Duty Cycle

Test Result

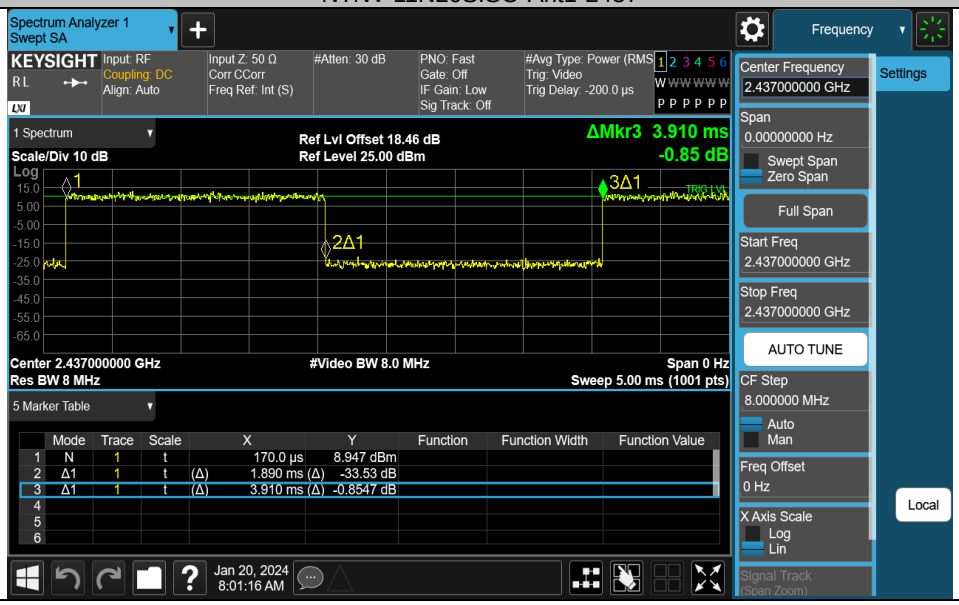
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2437	12.24	14.26	85.83
11G	Ant1	2437	2.03	4.06	50.00
11N20SISO	Ant1	2437	1.89	3.91	48.34

Test Graphs

NTNV-11B-Ant1-2437

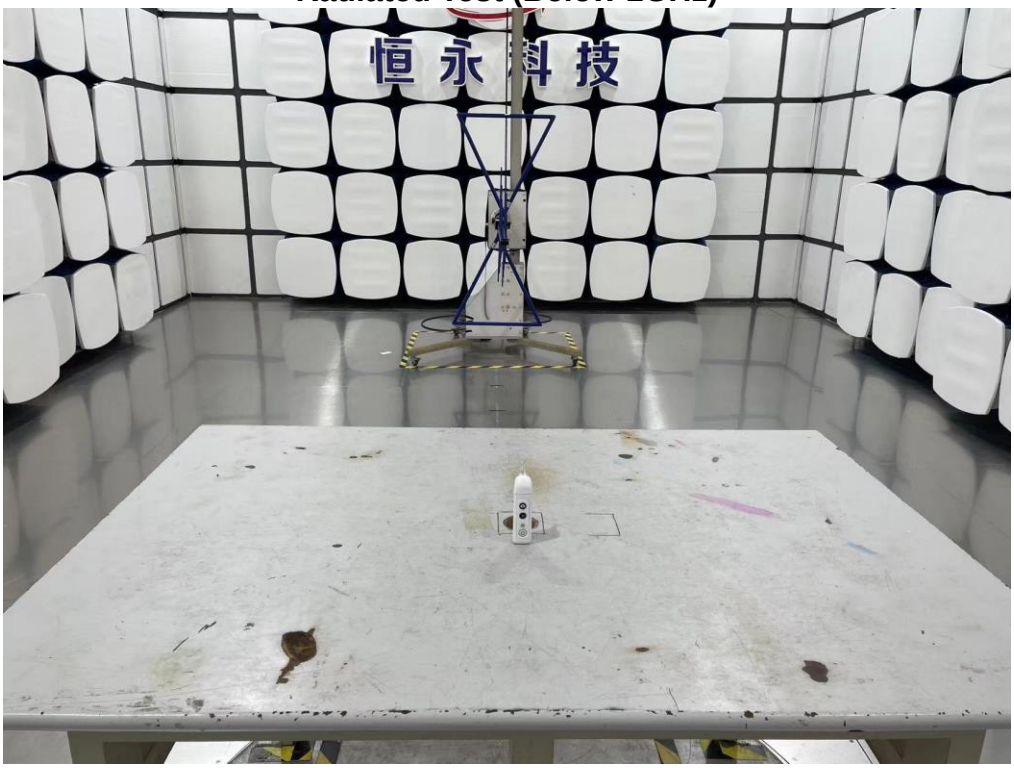
NTNV-11G-Ant1-2437

NTNV-11N20SISO-Ant1-2437

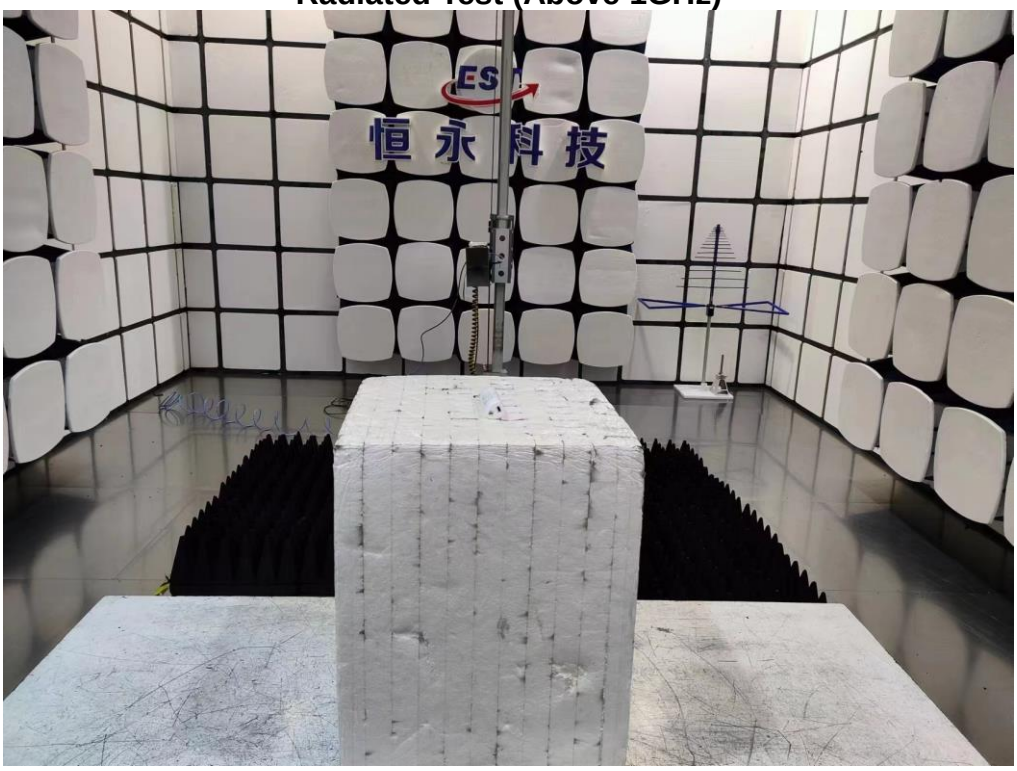


11. TEST SETUP PHOTO

Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)



12. EUT PHOTO

External Photos

M/N: Penguin CP1310F6

External Photos

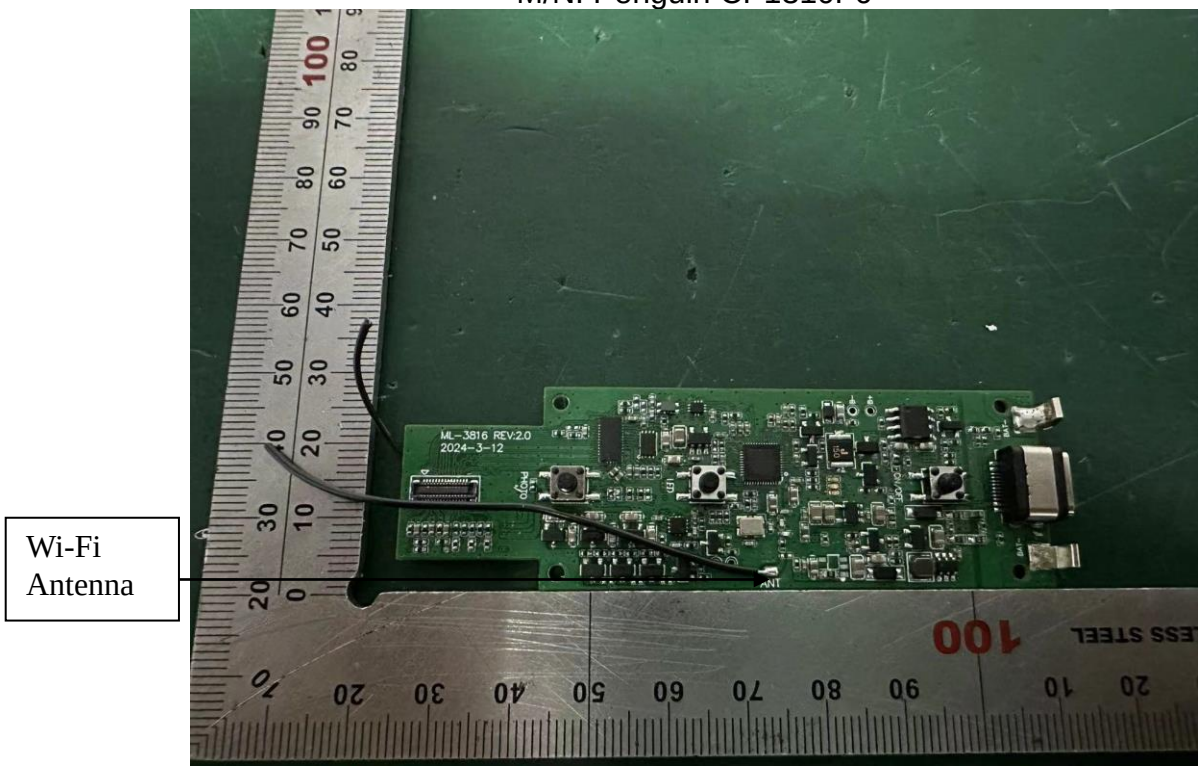
M/N: Penguin CP1310F6

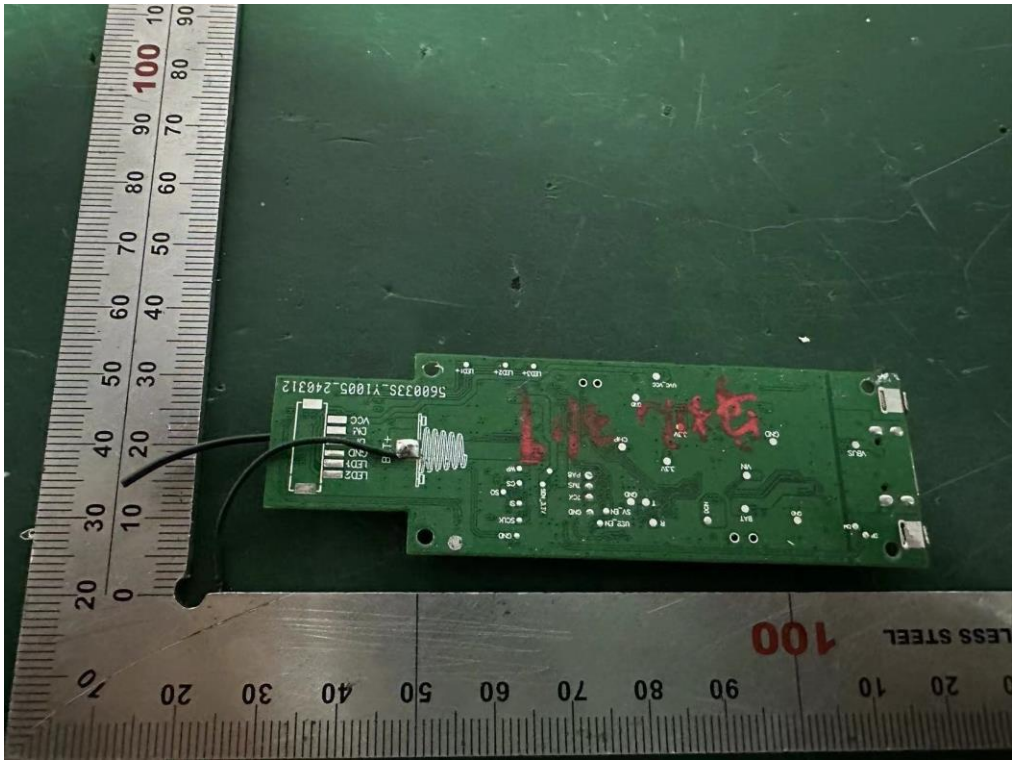
External Photos

M/N: Penguin CP1310F6

Internal Photos

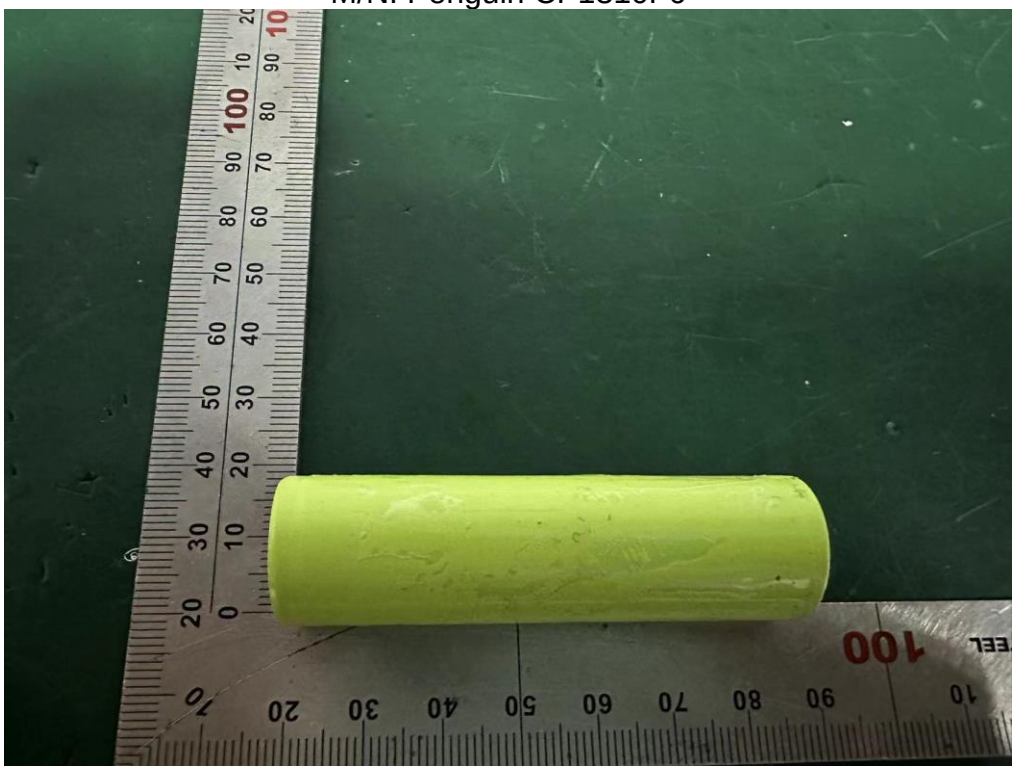
M/N: Penguin CP1310F6





Internal Photos

M/N: Penguin CP1310F6



End of Test Report