

Appendix D: Reference level measurement

Test Result

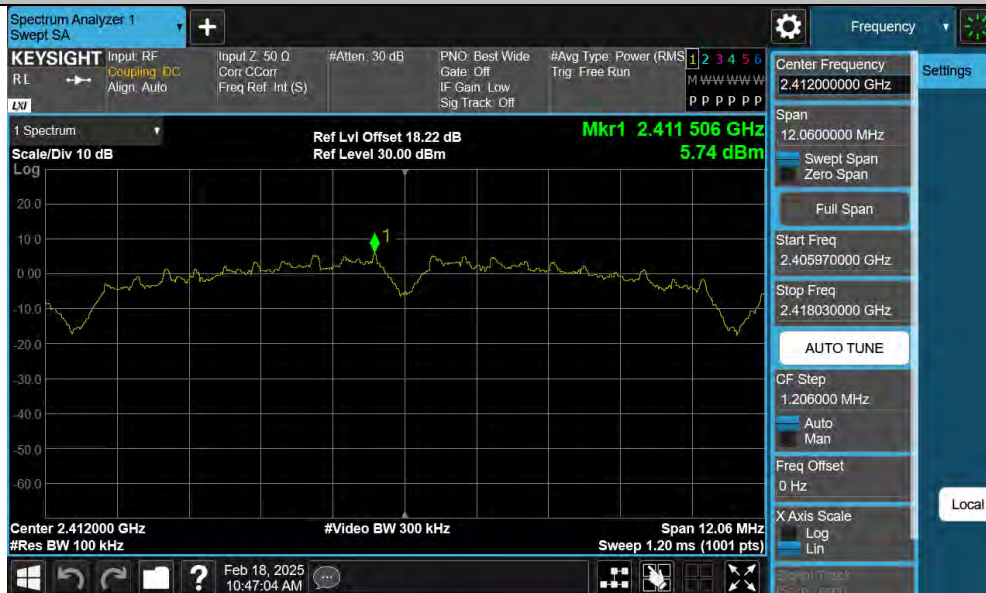
Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2412.99	7.10
11B	Ant2	2412	2411.51	5.74
11B	Ant1	2437	2437.50	6.32
11B	Ant2	2437	2437.51	5.46
11B	Ant1	2462	2464.00	6.13
11B	Ant2	2462	2461.01	6.03
11G	Ant1	2412	2413.27	-0.38
11G	Ant2	2412	2414.52	-2.31
11G	Ant1	2437	2438.25	0.09
11G	Ant2	2437	2439.48	-1.29
11G	Ant1	2462	2463.28	-0.94
11G	Ant2	2462	2463.27	-2.07
11N20MIMO	Ant1	2412	2413.28	-0.23
11N20MIMO	Ant2	2412	2417.02	-1.92
11N20MIMO	Ant1	2437	2439.51	-1.22
11N20MIMO	Ant2	2437	2441.98	-2.36
11N20MIMO	Ant1	2462	2459.49	-1.52
11N20MIMO	Ant2	2462	2467.01	-2.15
11AX20MIMO	Ant1	2412	2414.49	-1.62
11AX20MIMO	Ant2	2412	2413.26	-2.80
11AX20MIMO	Ant1	2437	2438.25	-1.92
11AX20MIMO	Ant2	2437	2438.29	-3.28
11AX20MIMO	Ant1	2462	2463.29	-2.04
11AX20MIMO	Ant2	2462	2463.29	-3.28

Test Graphs

11B-Ant1-2412-PASS



11B-Ant2-2412-PASS



11B-Ant1-2437-PASS



11B-Ant2-2437-PASS



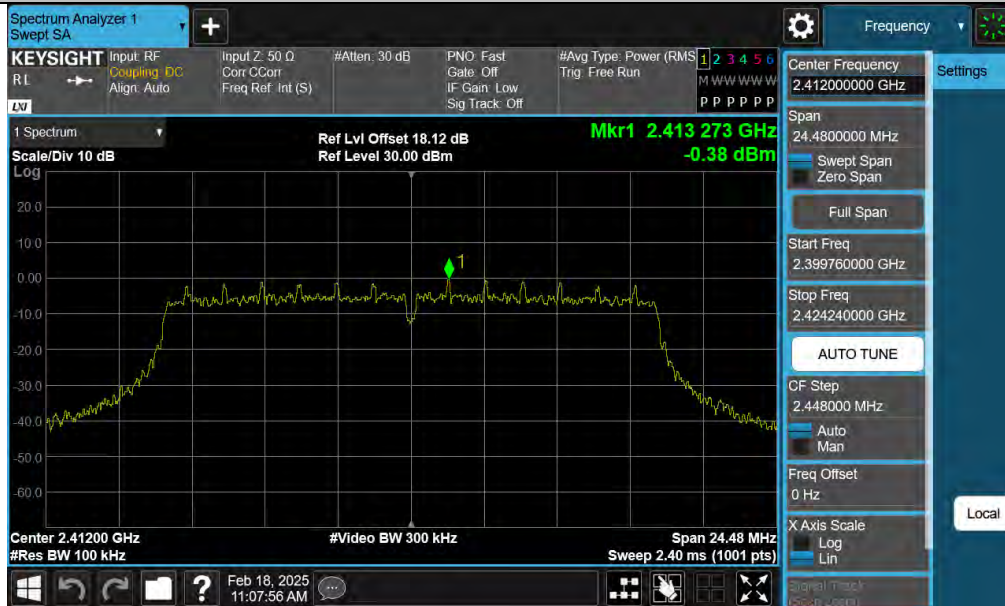
11B-Ant1-2462-PASS



11B-Ant2-2462-PASS



11G-Ant1-2412-PASS



11G-Ant2-2412-PASS



11G-Ant1-2437-PASS



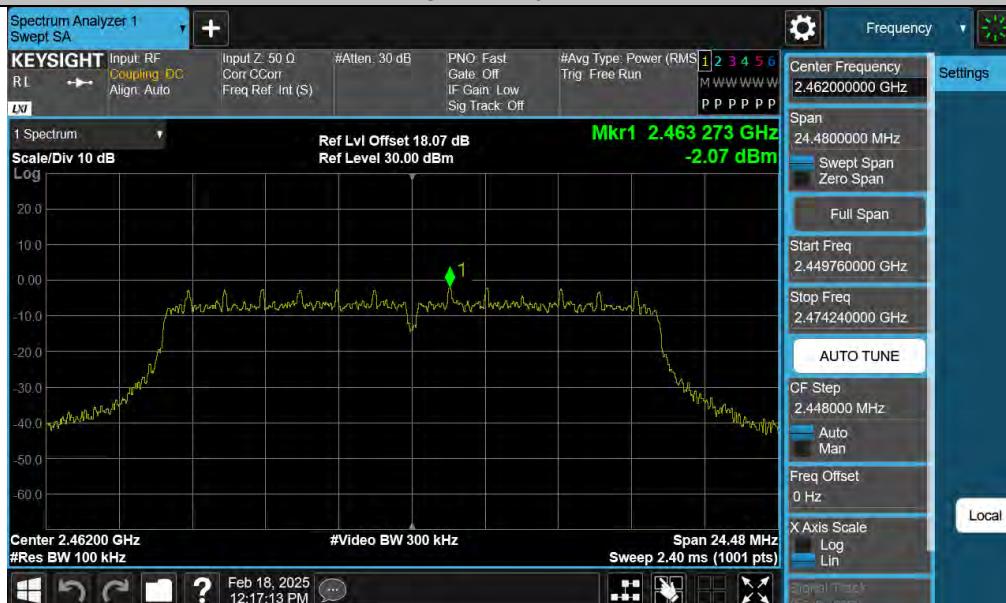
11G-Ant2-2437-PASS



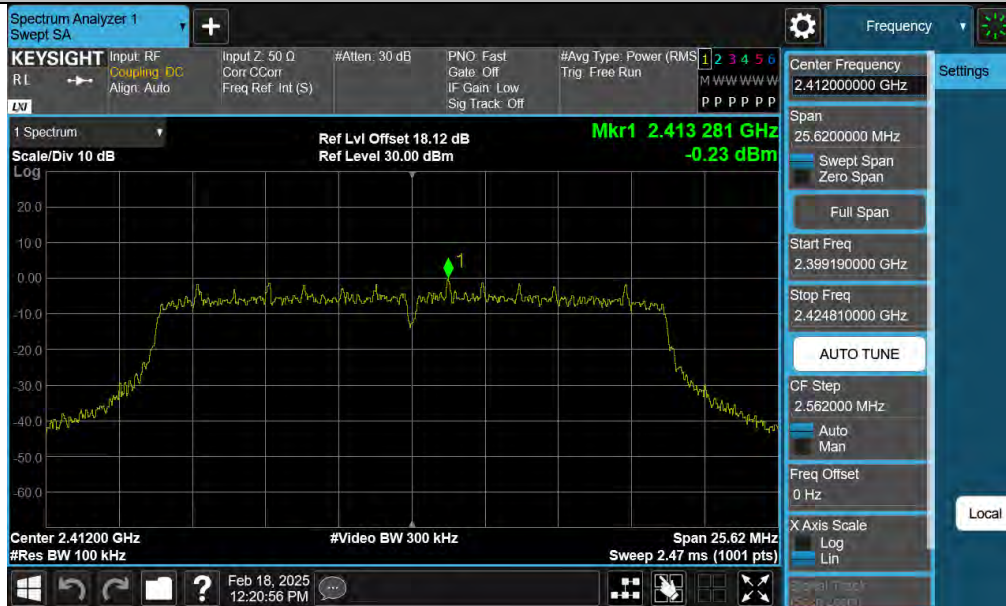
11G-Ant1-2462-PASS



11G-Ant2-2462-PASS



11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2437-PASS



11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



11N20MIMO-Ant2-2462-PASS



11AX20MIMO-Ant1-2412-PASS



11AX20MIMO-Ant2-2412-PASS



11AX20MIMO-Ant1-2437-PASS



11AX20MIMO-Ant2-2437-PASS



11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-PASS



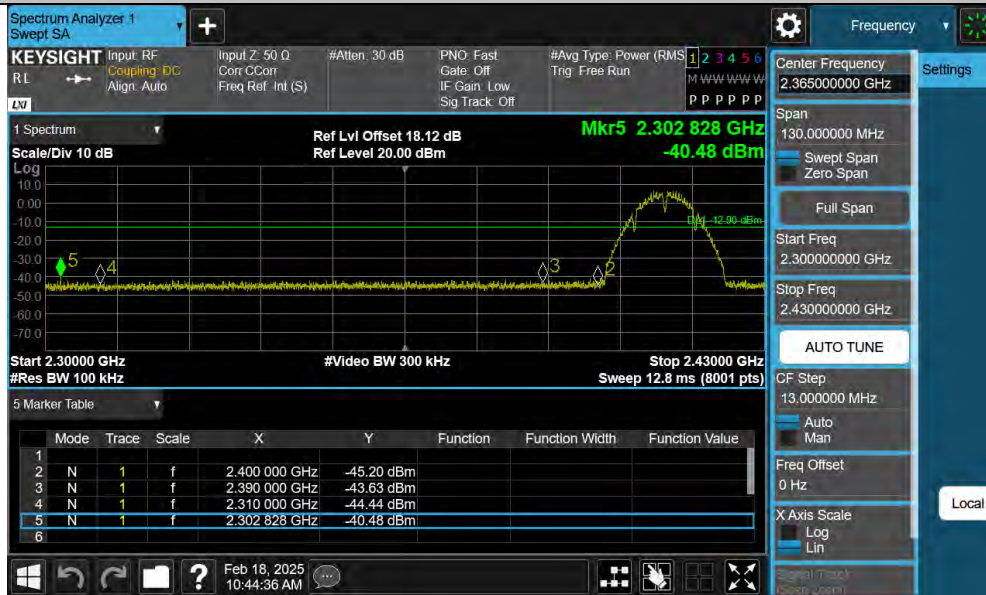
Appendix E: Band edge measurements

Test Result

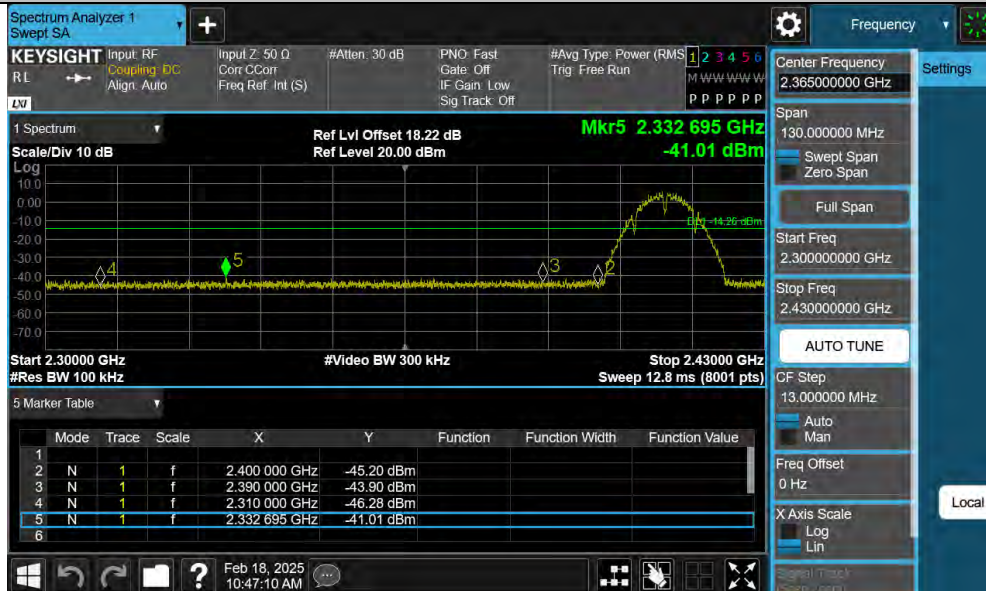
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.10	-40.48	≤ -12.9	PASS
11B	Ant2	Low	2412	5.74	-41.01	≤ -14.26	PASS
11B	Ant1	High	2462	6.13	-40.74	≤ -13.87	PASS
11B	Ant2	High	2462	6.03	-40.99	≤ -13.97	PASS
11G	Ant1	Low	2412	-0.38	-38.87	≤ -20.38	PASS
11G	Ant2	Low	2412	-2.31	-39.25	≤ -22.31	PASS
11G	Ant1	High	2462	-0.94	-41.21	≤ -20.94	PASS
11G	Ant2	High	2462	-2.07	-40.17	≤ -22.07	PASS
11N20MIMO	Ant1	Low	2412	-0.23	-37.66	≤ -20.23	PASS
11N20MIMO	Ant2	Low	2412	-1.92	-39.43	≤ -21.92	PASS
11N20MIMO	Ant1	High	2462	-1.52	-40.57	≤ -21.52	PASS
11N20MIMO	Ant2	High	2462	-2.15	-40.35	≤ -22.15	PASS
11AX20MIMO	Ant1	Low	2412	-1.62	-41.06	≤ -21.62	PASS
11AX20MIMO	Ant2	Low	2412	-2.80	-39.9	≤ -22.8	PASS
11AX20MIMO	Ant1	High	2462	-2.04	-40.58	≤ -22.04	PASS
11AX20MIMO	Ant2	High	2462	-3.28	-41.25	≤ -23.28	PASS

Test Graphs

11B-Ant1-2412-PASS



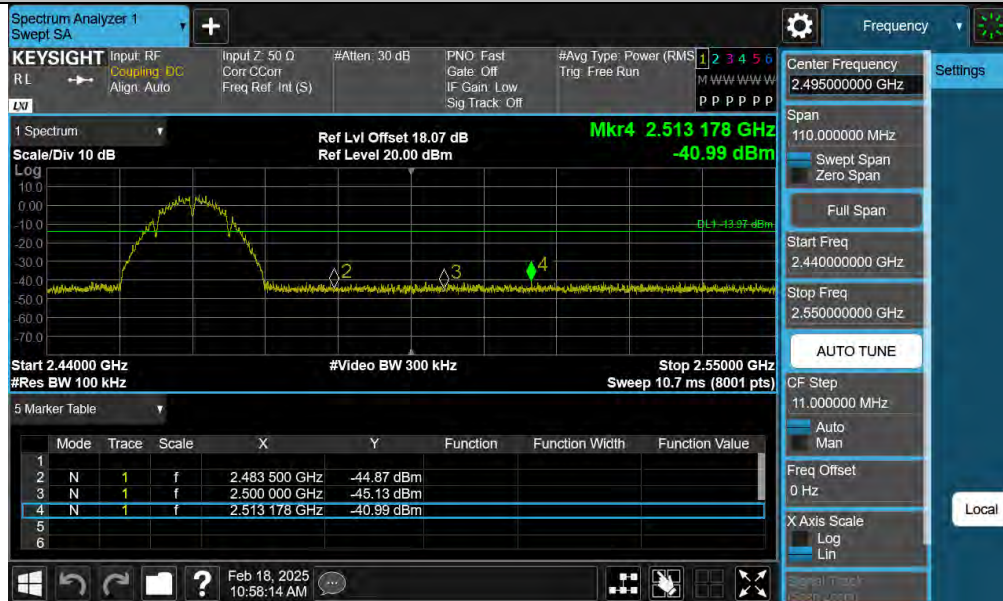
11B-Ant2-2412-PASS



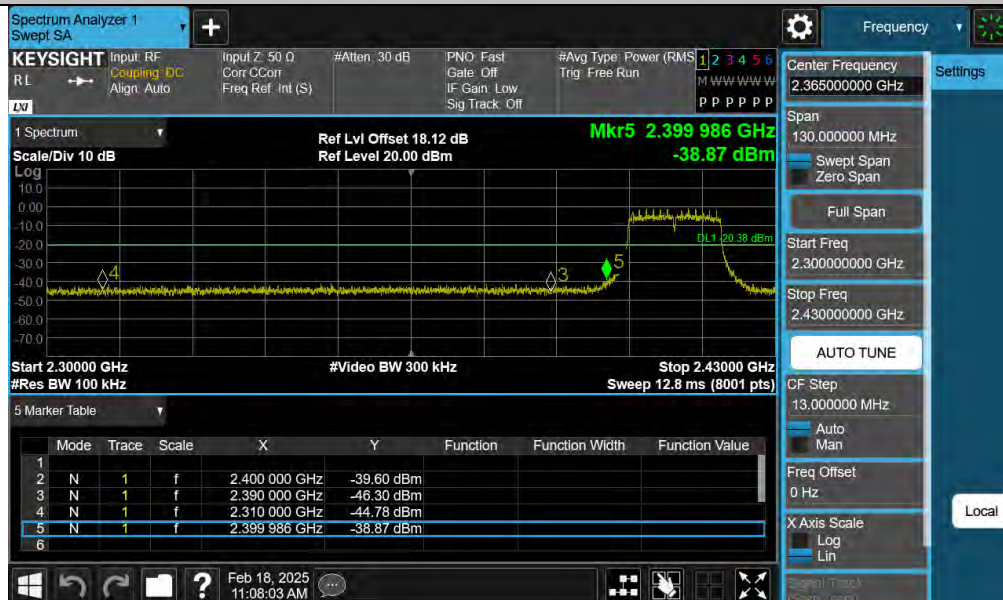
11B-Ant1-2462-PASS



11B-Ant2-2462-PASS



11G-Ant1-2412-PASS



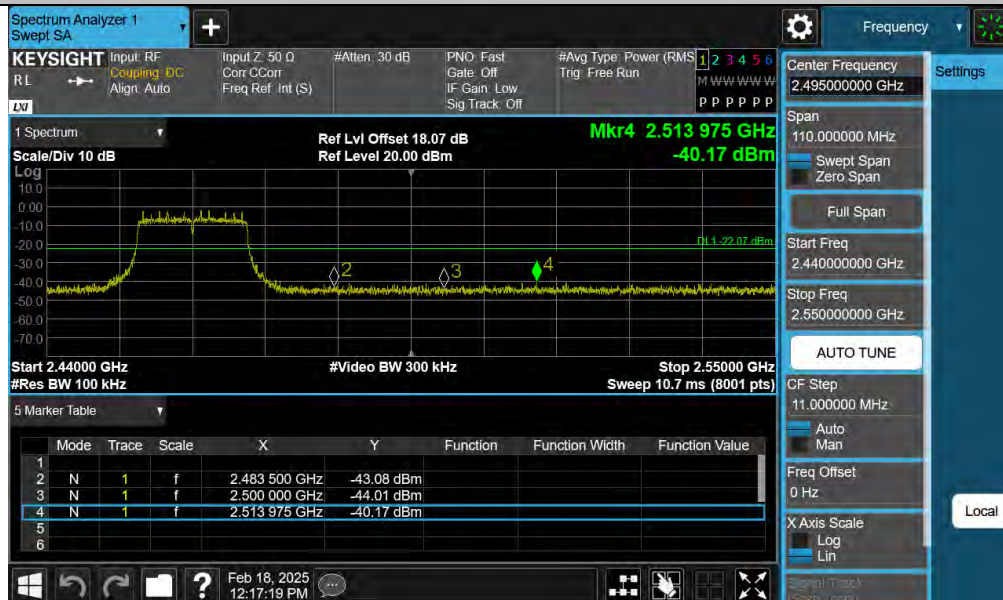
11G-Ant2-2412-PASS



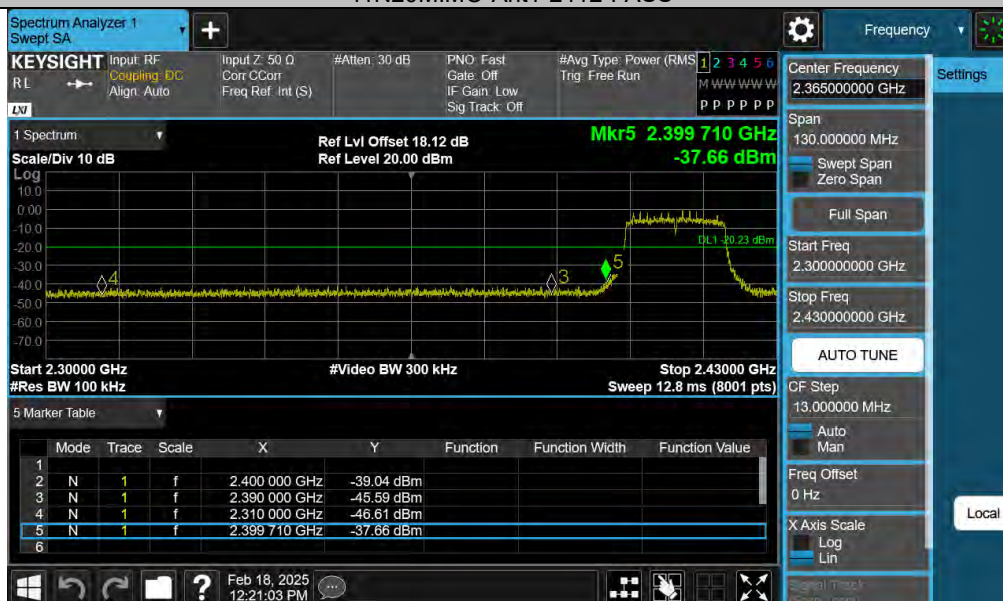
11G-Ant1-2462-PASS



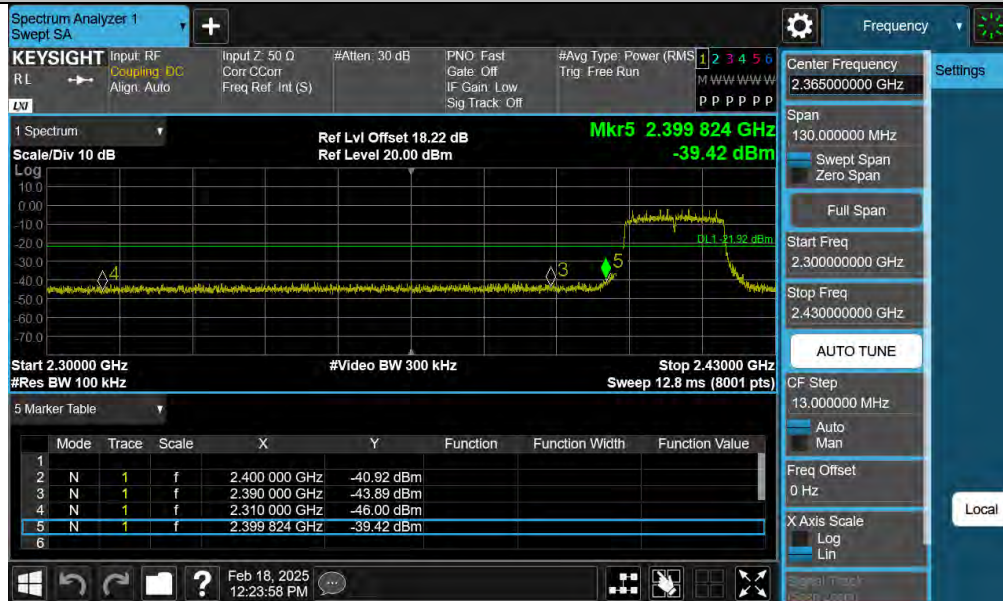
11G-Ant2-2462-PASS



11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



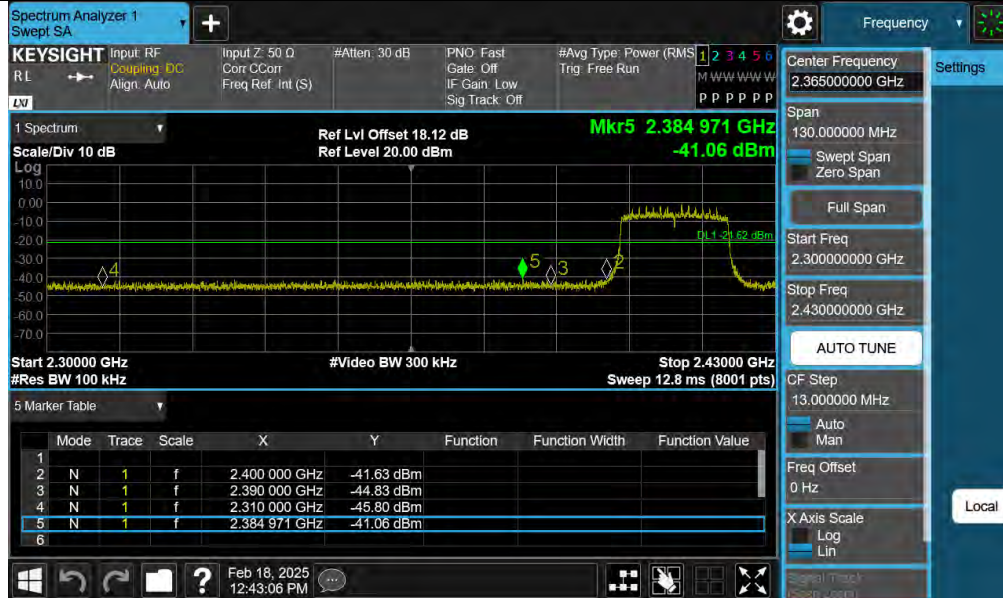
11N20MIMO-Ant1-2462-PASS



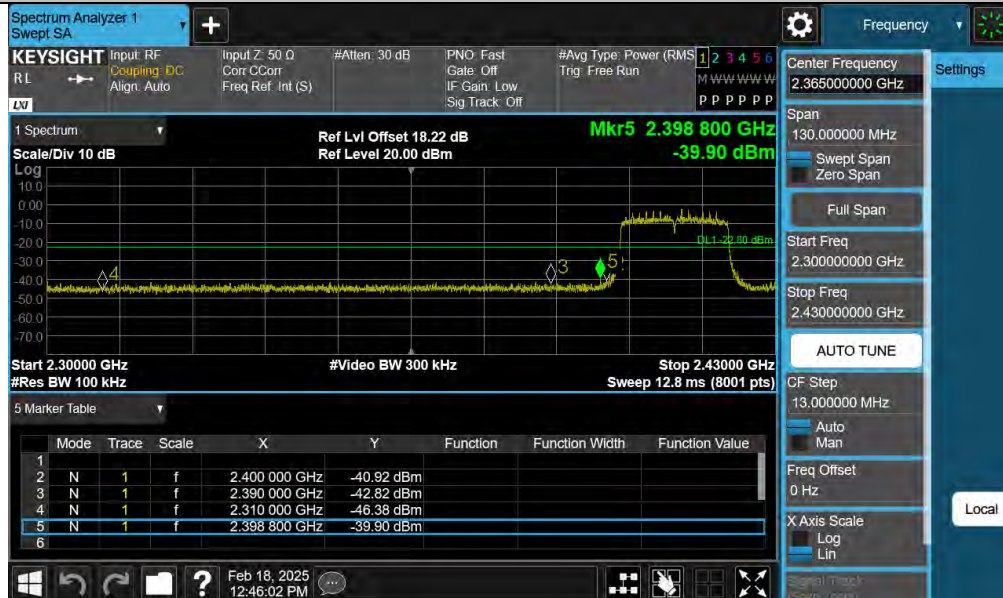
11N20MIMO-Ant2-2462-PASS



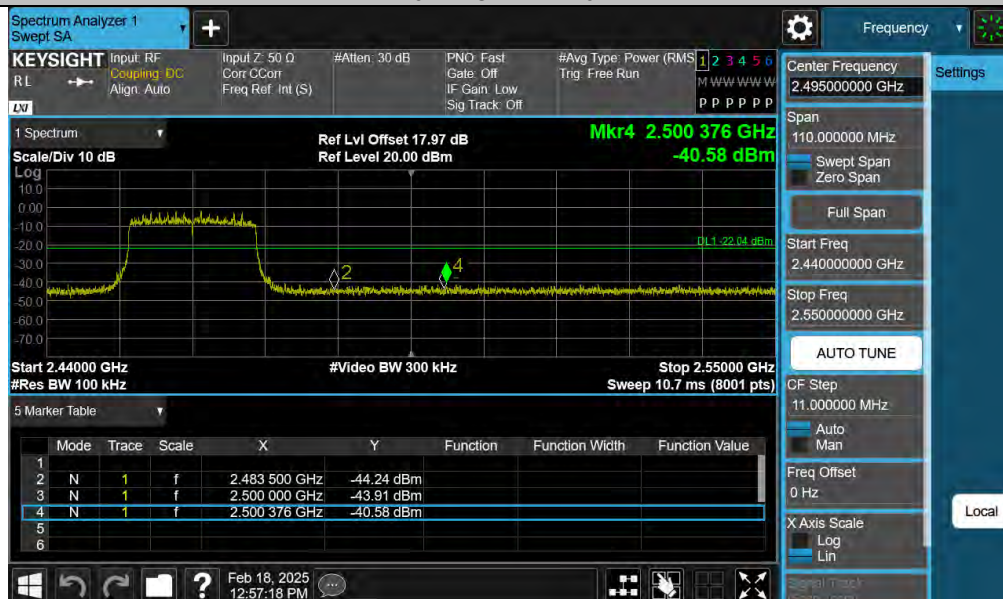
11AX20MIMO-Ant1-2412-PASS



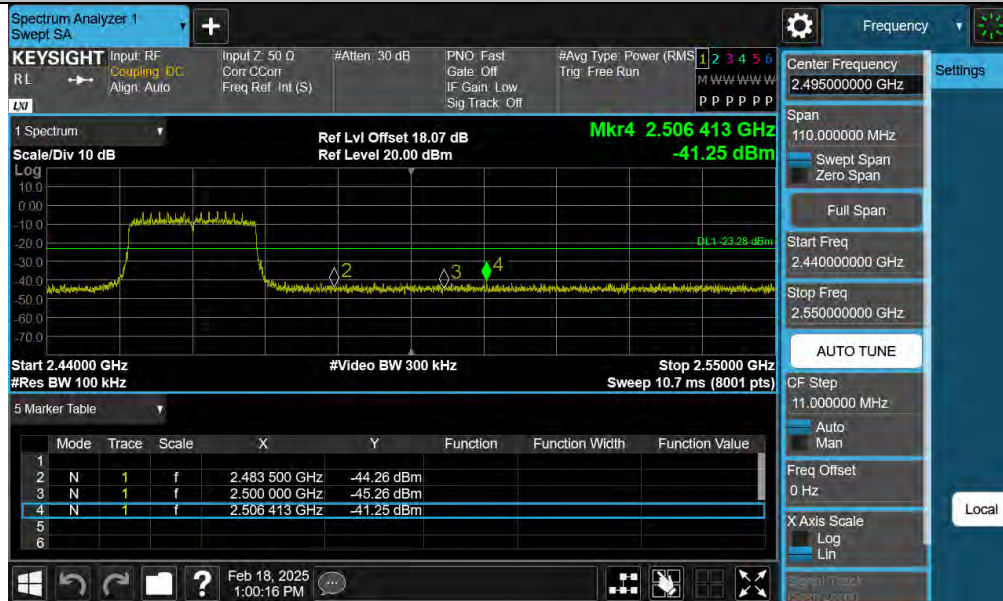
11AX20MIMO-Ant2-2412-PASS



11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-PASS



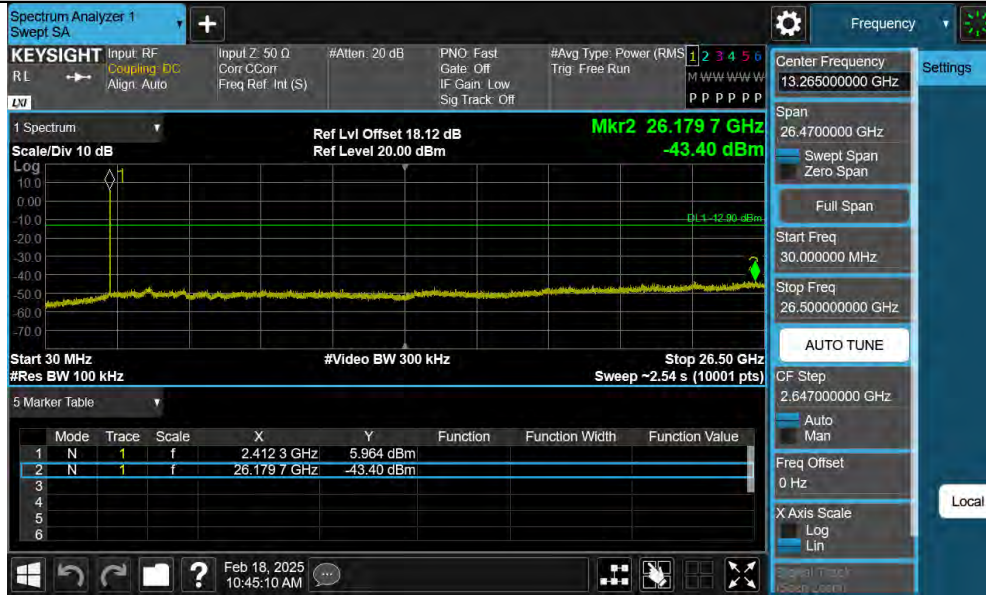
Appendix F: Conducted Spurious Emission

Test Result

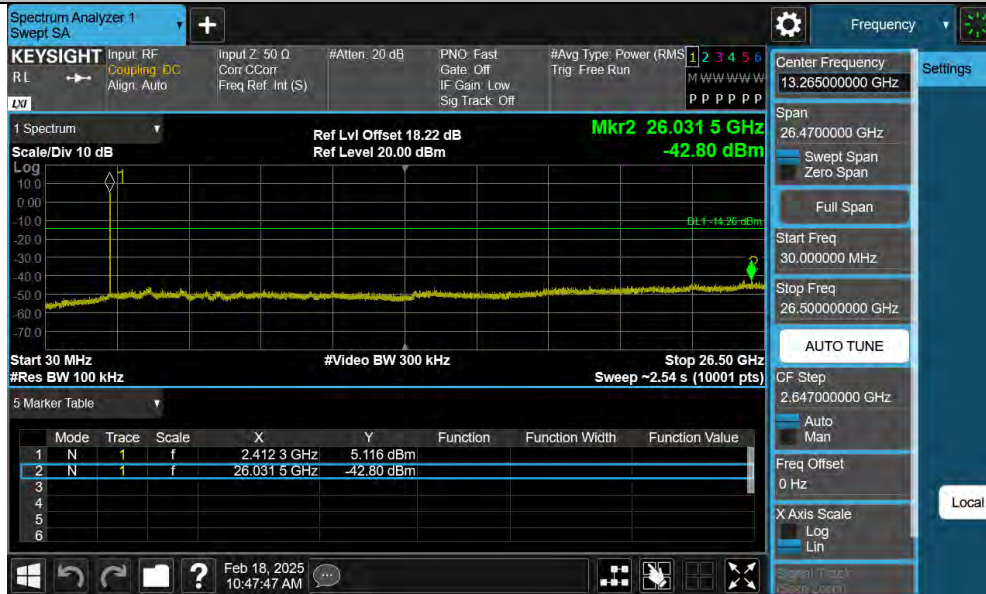
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~26500	7.10	-43.4	≤-12.9	PASS
11B	Ant2	2412	30~26500	5.74	-42.8	≤-14.26	PASS
11B	Ant1	2437	30~26500	6.32	-42.68	≤-13.68	PASS
11B	Ant2	2437	30~26500	5.46	-43.3	≤-14.54	PASS
11B	Ant1	2462	30~26500	6.13	-42.6	≤-13.87	PASS
11B	Ant2	2462	30~26500	6.03	-43.03	≤-13.97	PASS
11G	Ant1	2412	30~26500	-0.38	-43.06	≤-20.38	PASS
11G	Ant2	2412	30~26500	-2.31	-42.68	≤-22.31	PASS
11G	Ant1	2437	30~26500	0.09	-43.23	≤-19.91	PASS
11G	Ant2	2437	30~26500	-1.29	-42.51	≤-21.29	PASS
11G	Ant1	2462	30~26500	-0.94	-42.87	≤-20.94	PASS
11G	Ant2	2462	30~26500	-2.07	-42.96	≤-22.07	PASS
11N20MIMO	Ant1	2412	30~26500	-0.23	-43.07	≤-20.23	PASS
11N20MIMO	Ant2	2412	30~26500	-1.92	-42.61	≤-21.92	PASS
11N20MIMO	Ant1	2437	30~26500	-1.22	-42.9	≤-21.22	PASS
11N20MIMO	Ant2	2437	30~26500	-2.36	-43.24	≤-22.36	PASS
11N20MIMO	Ant1	2462	30~26500	-1.52	-43.58	≤-21.52	PASS
11N20MIMO	Ant2	2462	30~26500	-2.15	-43.32	≤-22.15	PASS
11AX20MIMO	Ant1	2412	30~26500	-1.62	-42.76	≤-21.62	PASS
11AX20MIMO	Ant2	2412	30~26500	-2.80	-42.47	≤-22.8	PASS
11AX20MIMO	Ant1	2437	30~26500	-1.92	-42.85	≤-21.92	PASS
11AX20MIMO	Ant2	2437	30~26500	-3.28	-42.81	≤-23.28	PASS
11AX20MIMO	Ant1	2462	30~26500	-2.04	-43.05	≤-22.04	PASS
11AX20MIMO	Ant2	2462	30~26500	-3.28	-43.26	≤-23.28	PASS

Test Graphs

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



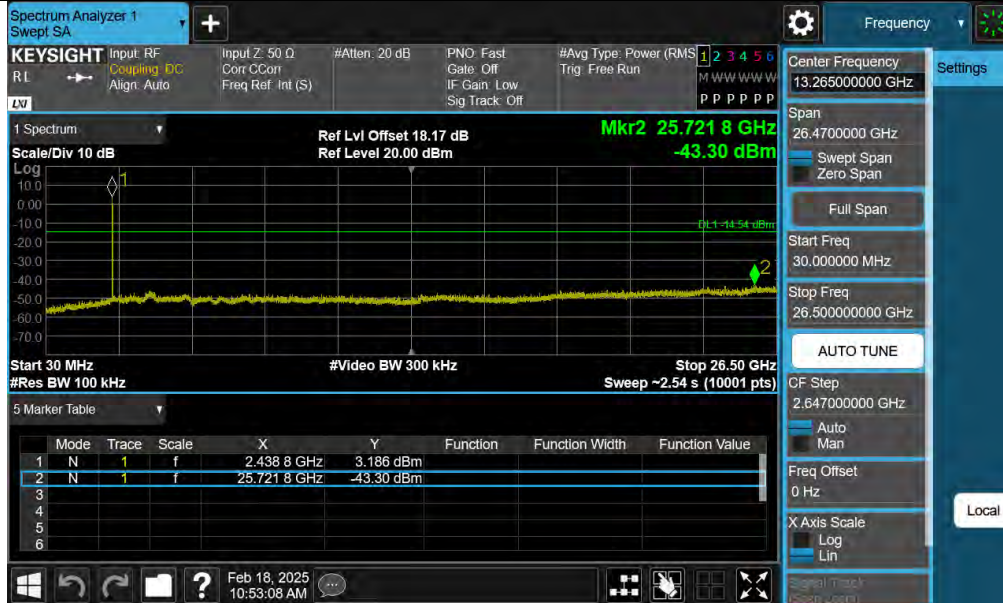
11B-Ant2-2412-30~26500-PASS



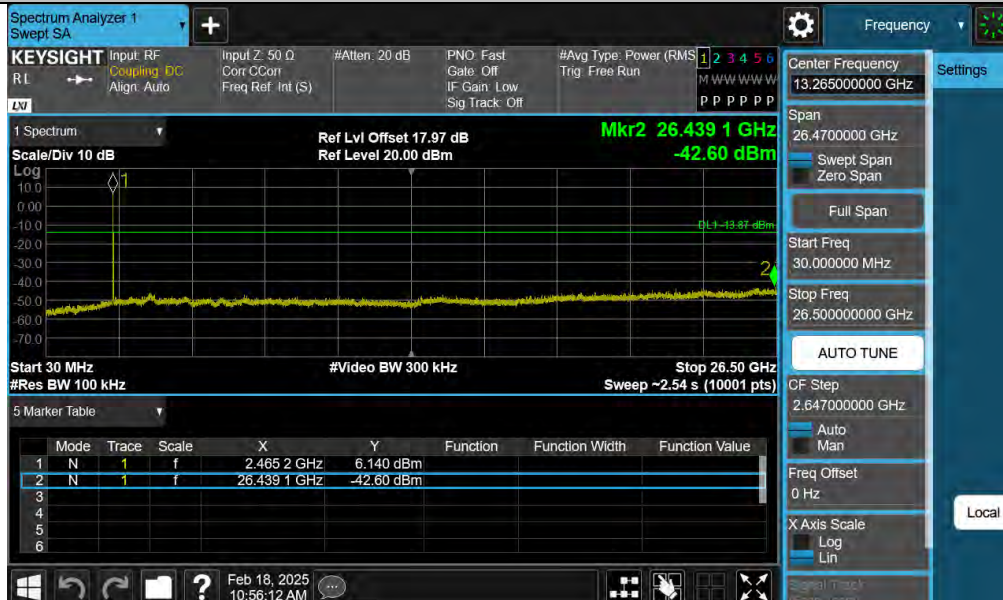
11B-Ant1-2437-30~26500-PASS



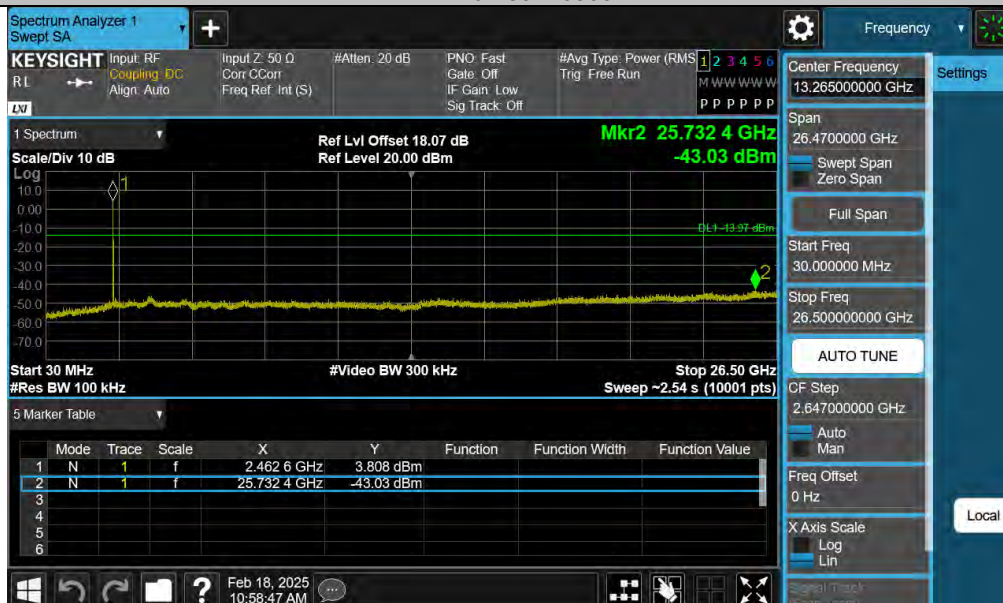
11B-Ant2-2437-30~26500-PASS



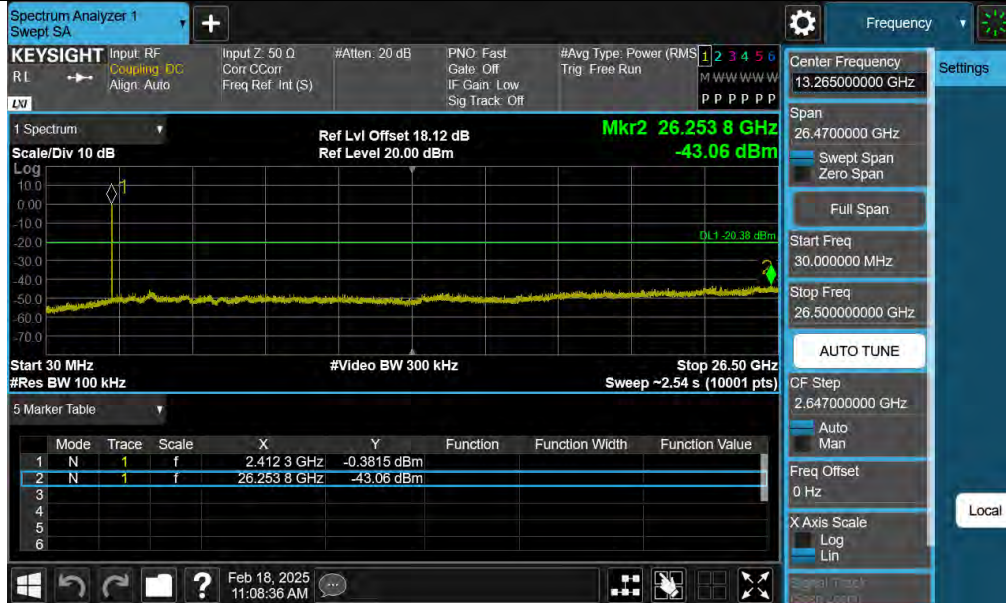
11B-Ant1-2462-30~26500-PASS



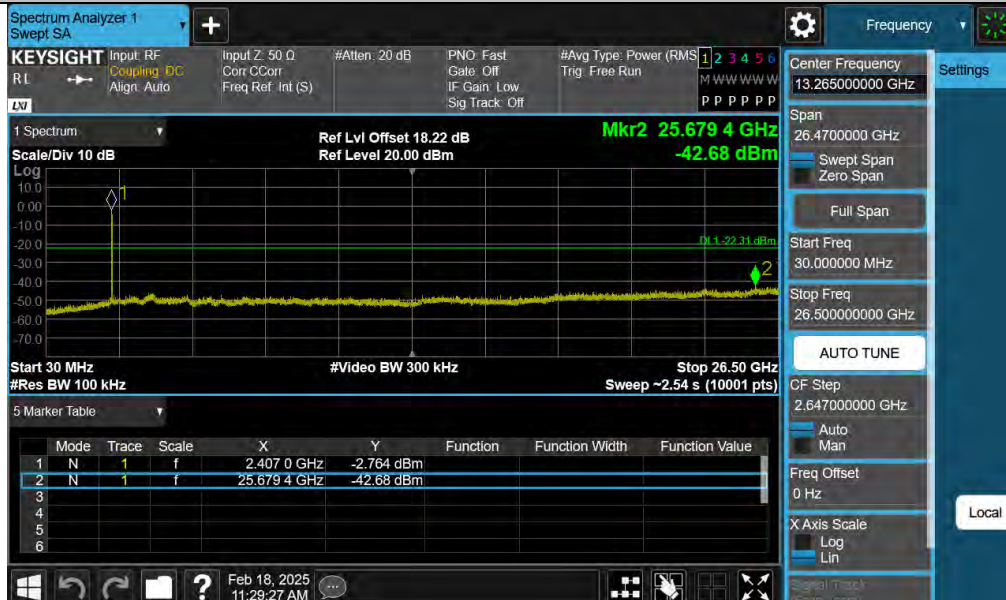
11B-Ant2-2462-30~26500-PASS



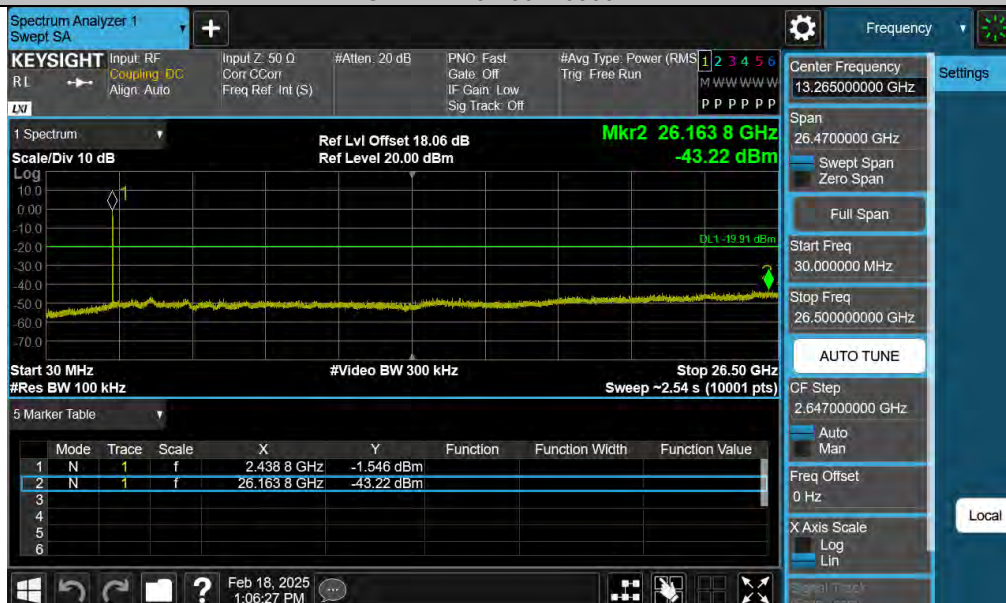
11G-Ant1-2412-30~26500-PASS



11G-Ant2-2412-30~26500-PASS



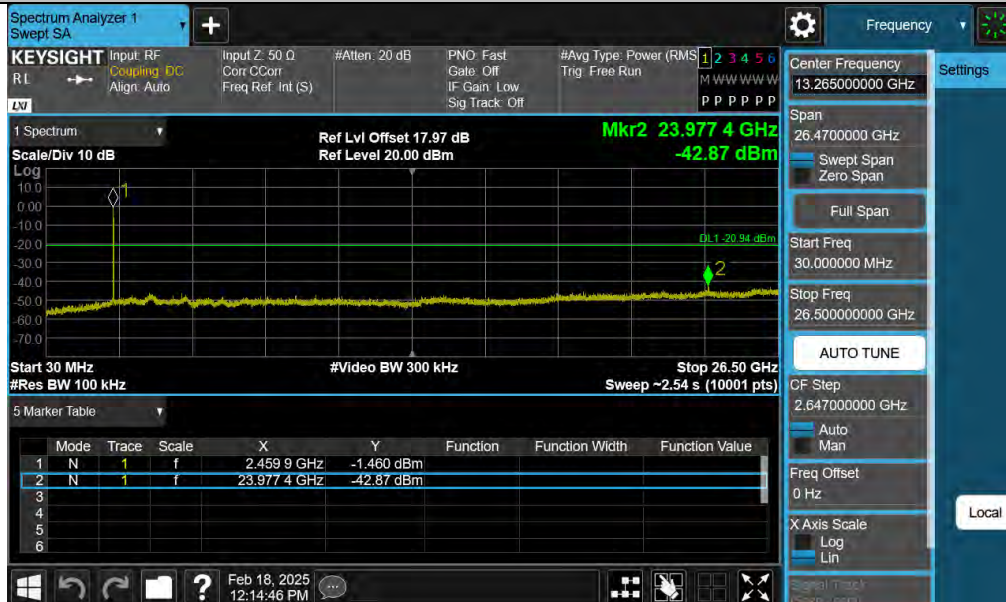
11G-Ant1-2437-30~26500-PASS



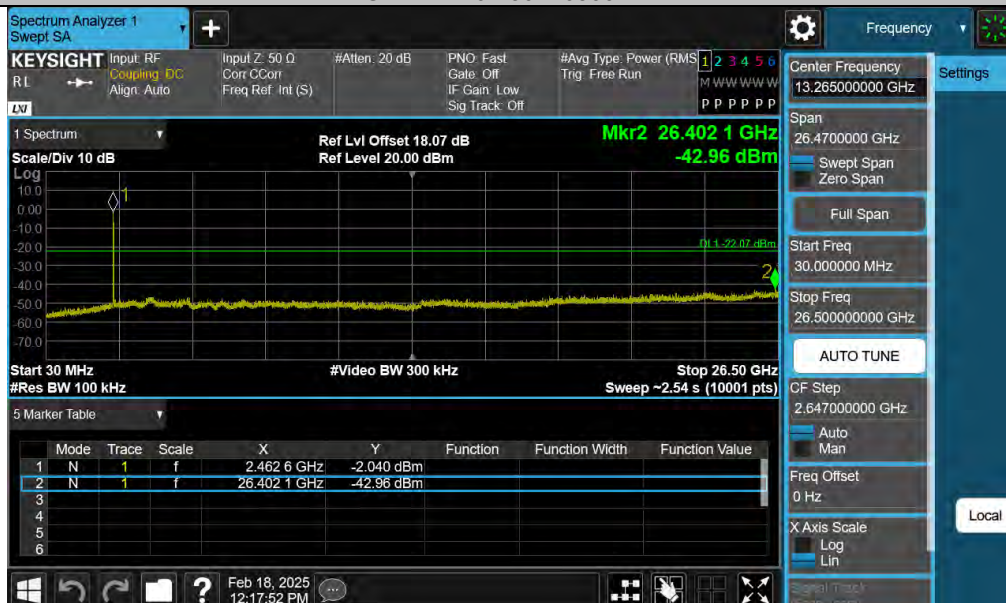
11G-Ant2-2437-30~26500-PASS



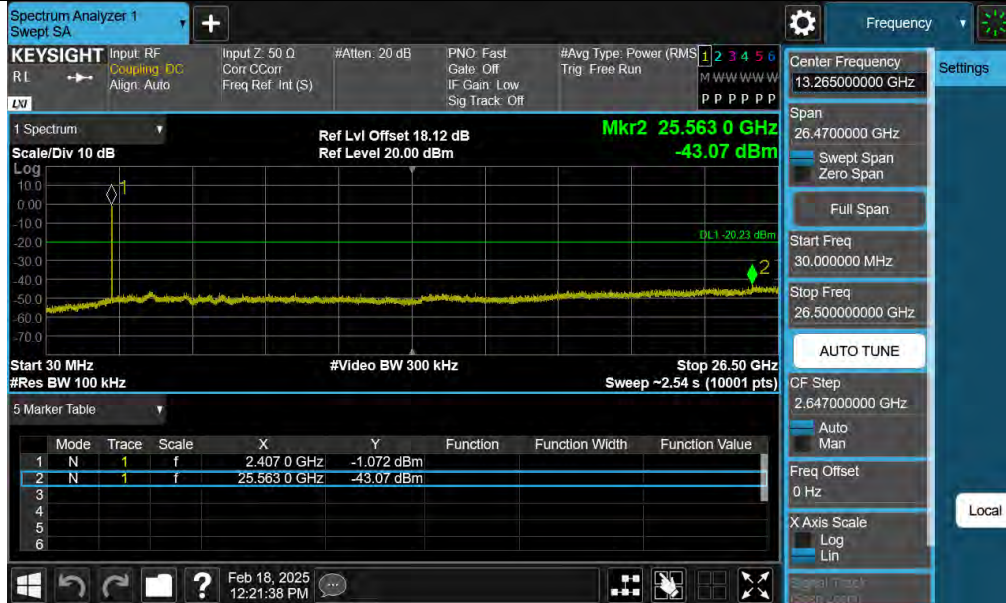
11G-Ant1-2462-30~26500-PASS



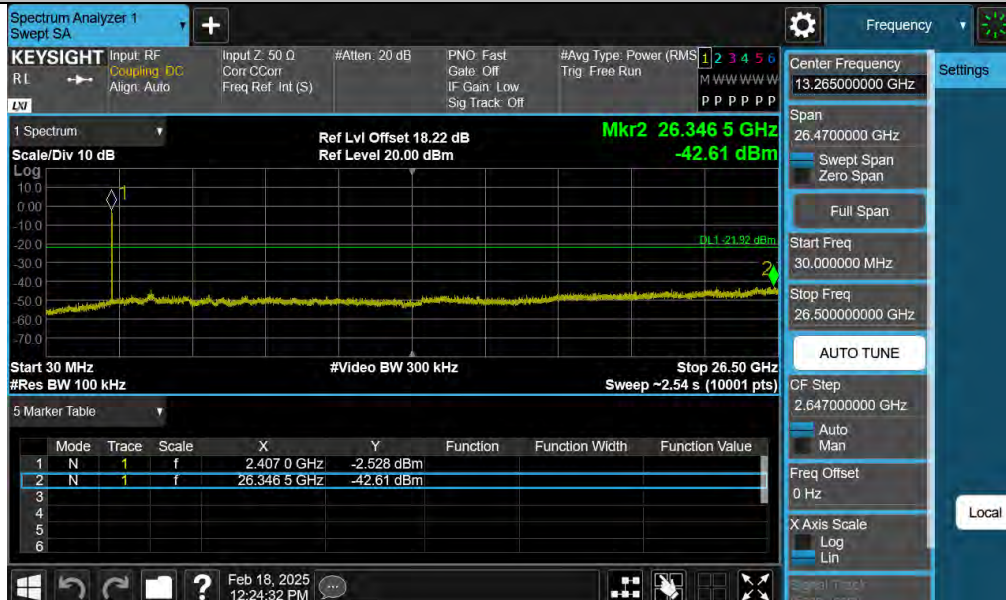
11G-Ant2-2462-30~26500-PASS



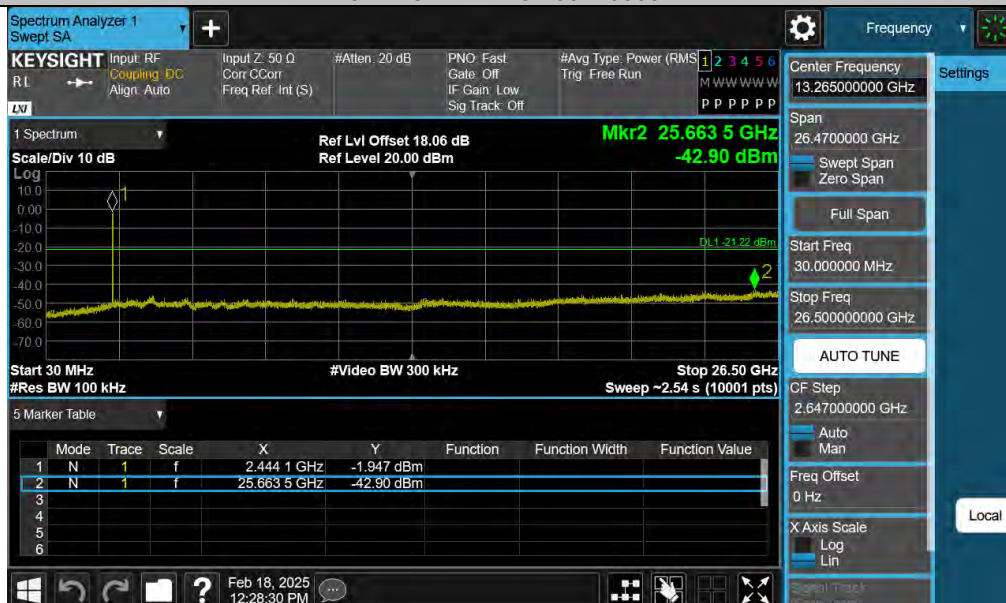
11N20MIMO-Ant1-2412-30~26500-PASS



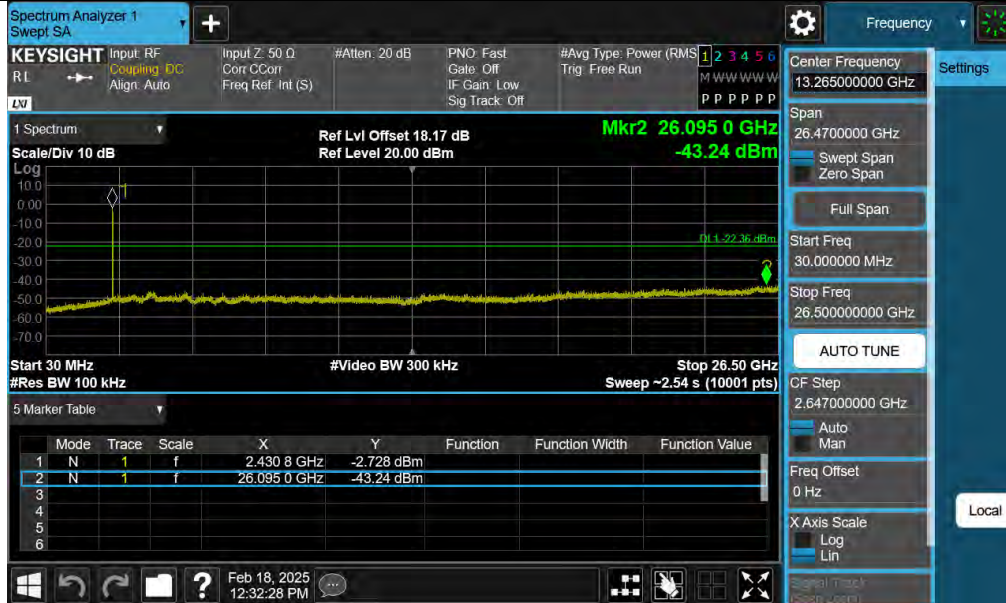
11N20MIMO-Ant2-2412-30~26500-PASS



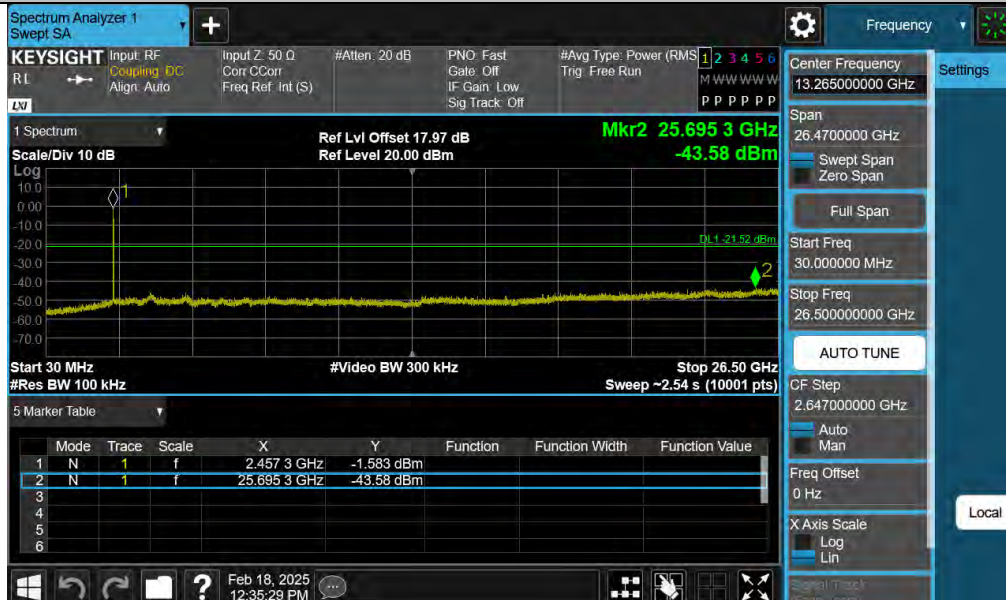
11N20MIMO-Ant1-2437-30~26500-PASS



11N20MIMO-Ant2-2437-30~26500-PASS



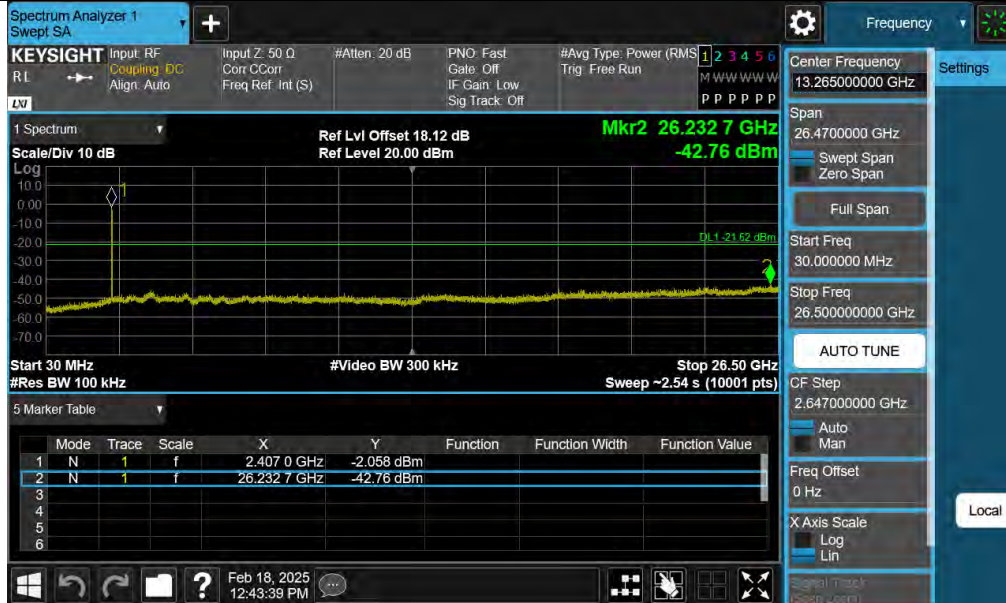
11N20MIMO-Ant1-2462-30~26500-PASS



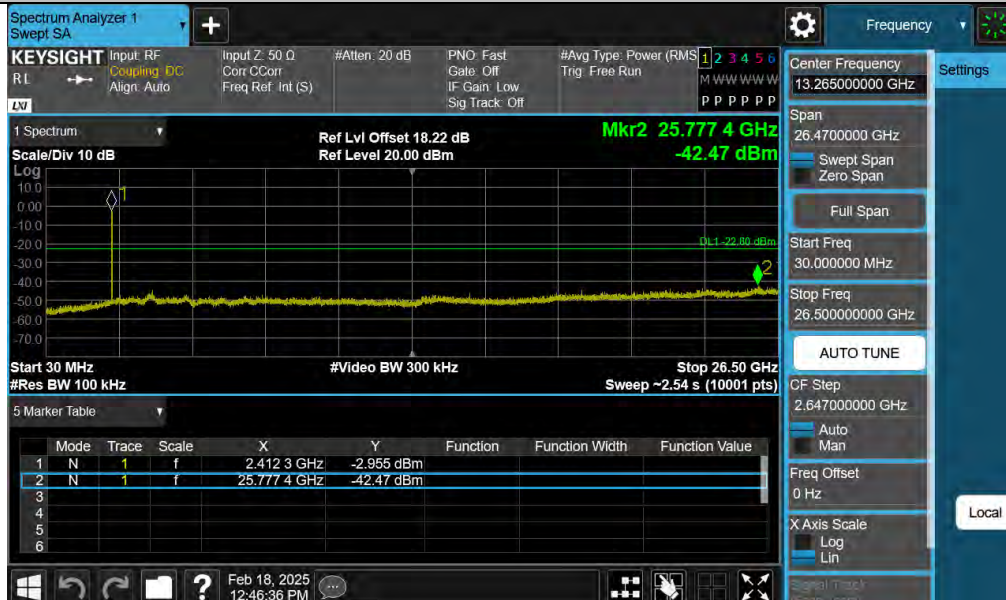
11N20MIMO-Ant2-2462-30~26500-PASS



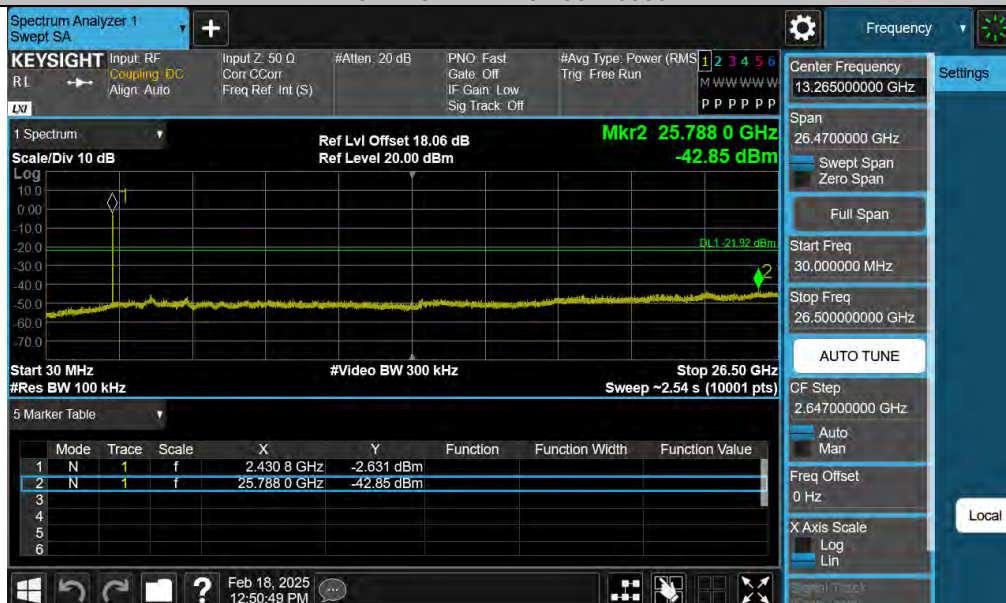
11AX20MIMO-Ant1-2412-30~26500-PASS



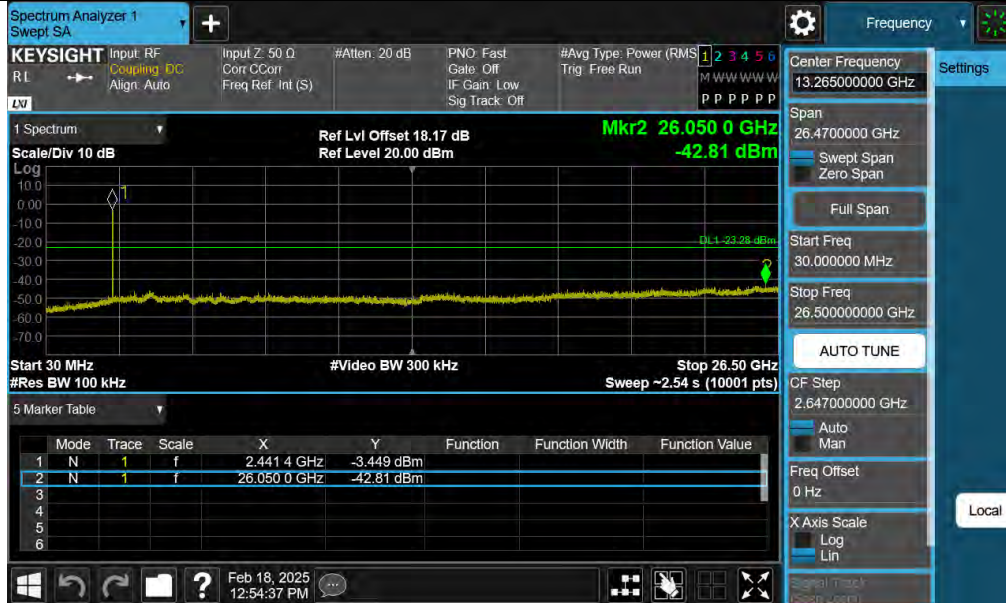
11AX20MIMO-Ant2-2412-30~26500-PASS



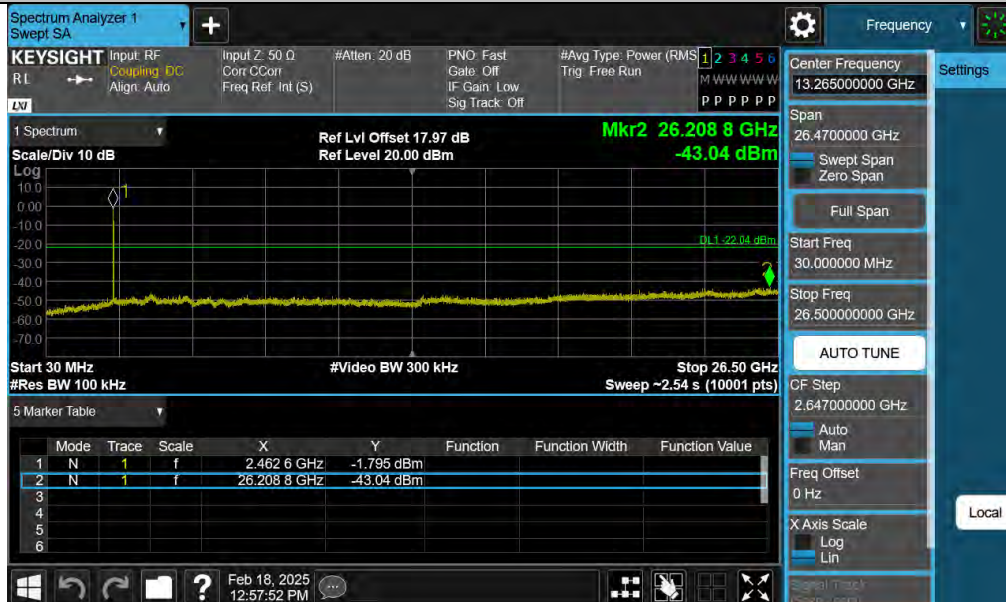
11AX20MIMO-Ant1-2437-30~26500-PASS



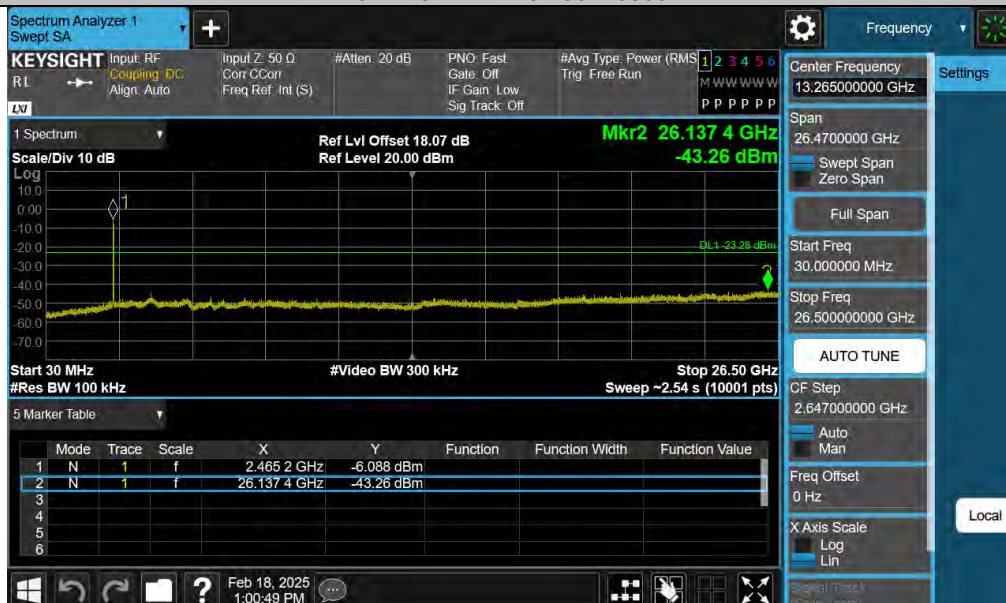
11AX20MIMO-Ant2-2437-30~26500-PASS



11AX20MIMO-Ant1-2462-30~26500-PASS



11AX20MIMO-Ant2-2462-30~26500-PASS



Appendix G: Duty Cycle Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2437	0.69	0.70	98.57
11B	Ant2	2437	0.68	0.70	97.14
11G	Ant1	2437	2.74	3.26	84.05
11G	Ant2	2437	2.12	2.74	77.37
11N20MIMO	Ant1	2437	5.20	5.76	90.28
11N20MIMO	Ant2	2437	5.18	5.84	88.70
11AX20MIMO	Ant1	2437	4.94	5.62	87.90
11AX20MIMO	Ant2	2437	4.94	5.64	87.59

Test Graphs

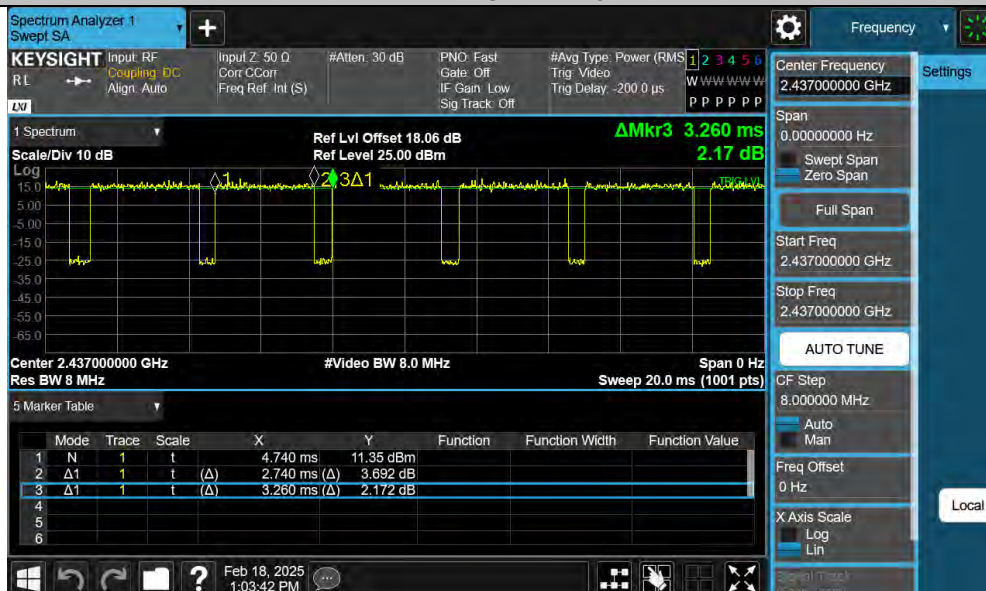
NTNV-11B-Ant1-2437



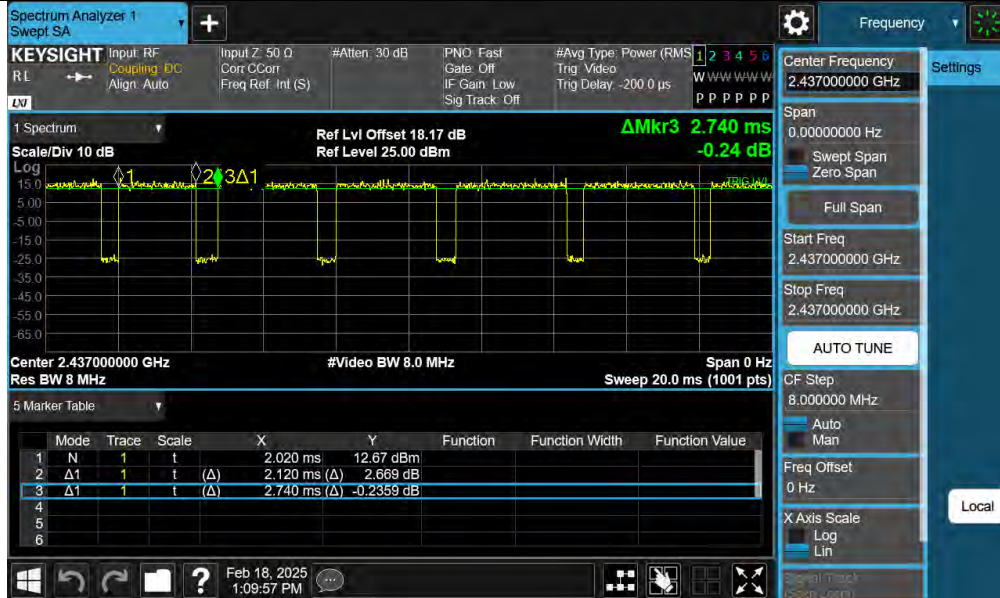
NTNV-11B-Ant2-2437



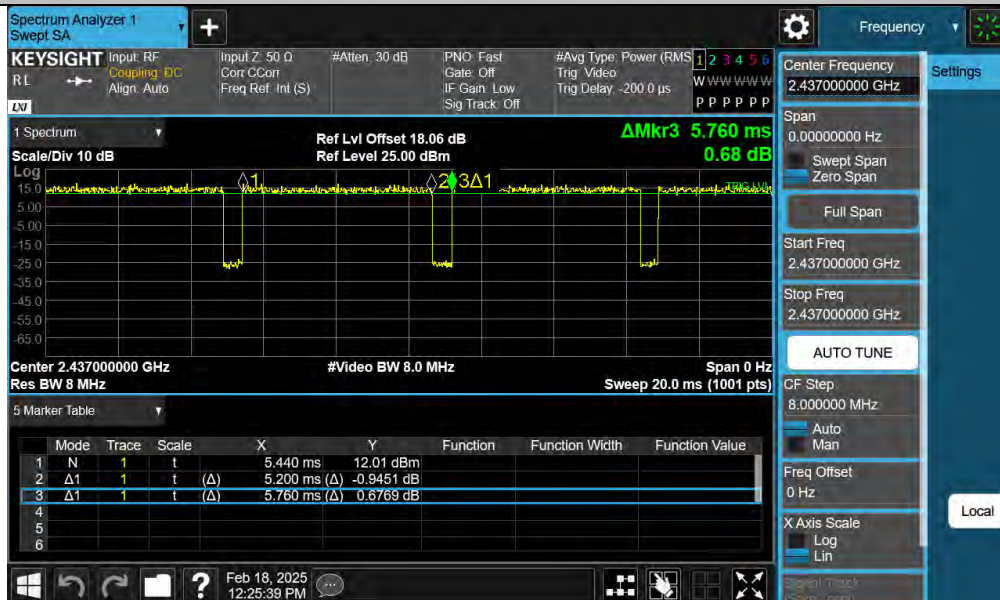
NTNV-11G-Ant1-2437



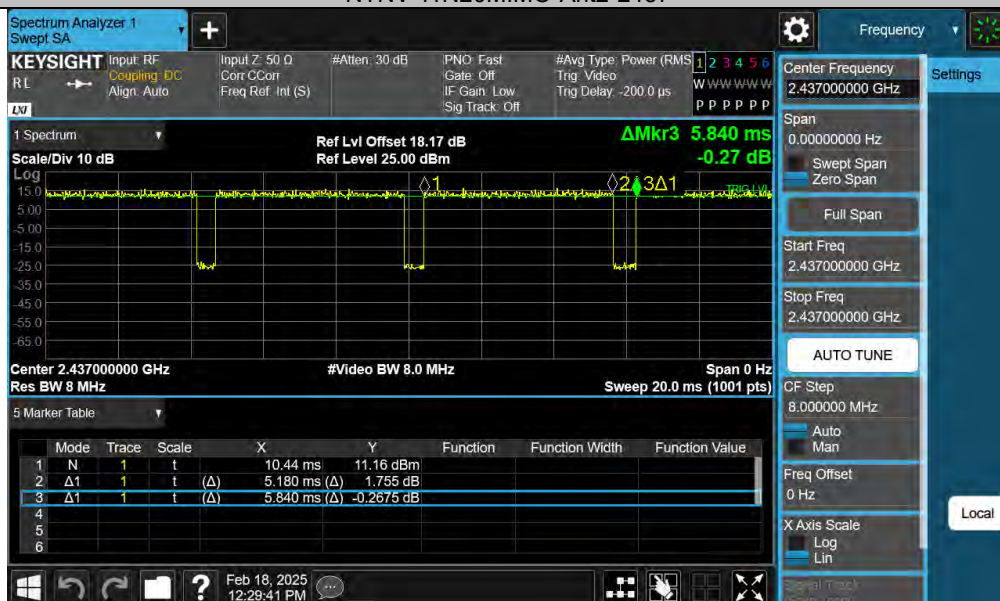
NTNV-11G-Ant2-2437



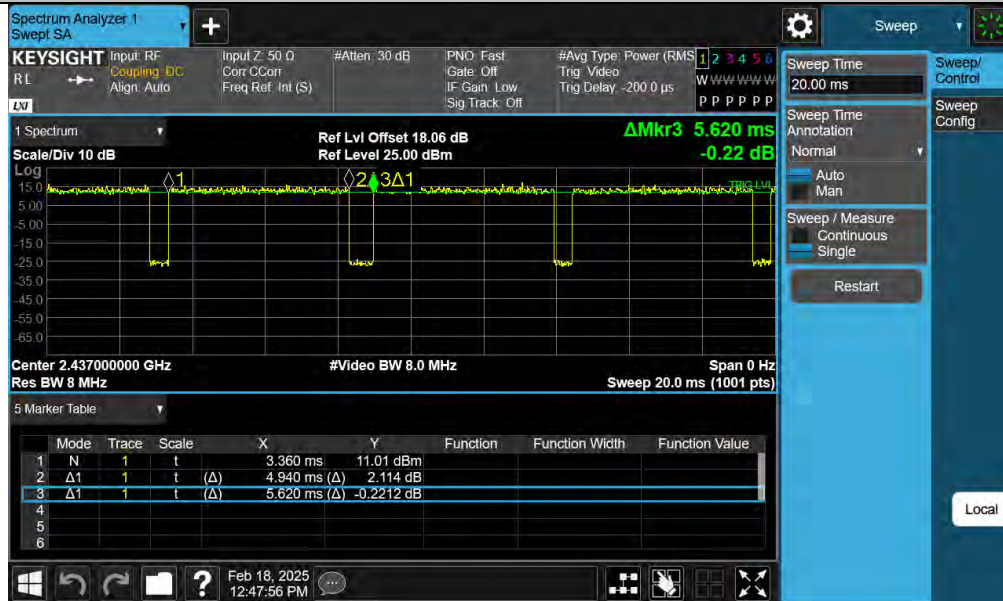
NTNV-11N20MIMO-Ant1-2437



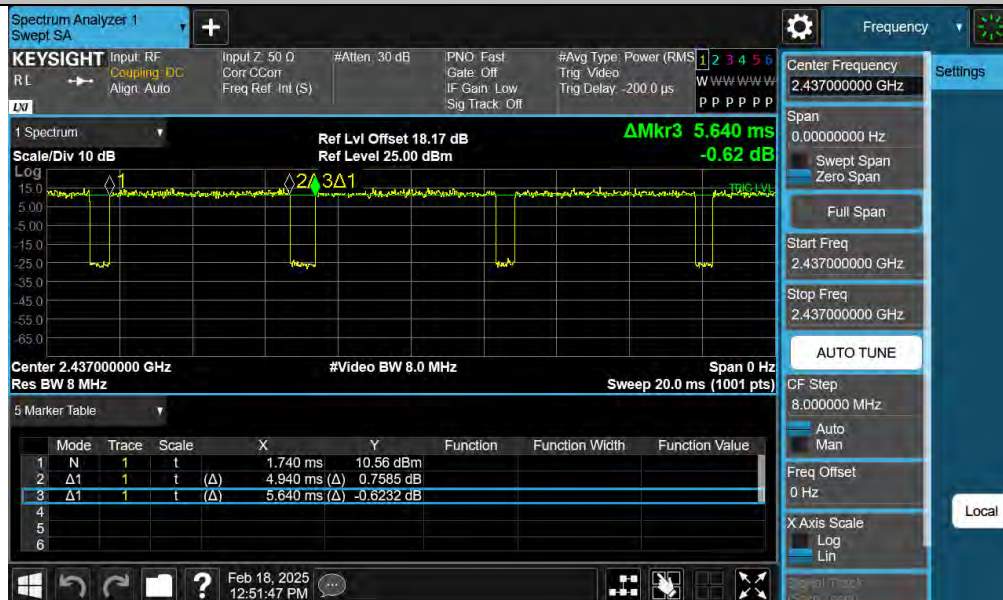
NTNV-11N20MIMO-Ant2-2437



NTNV-11AX20MIMO-Ant1-2437

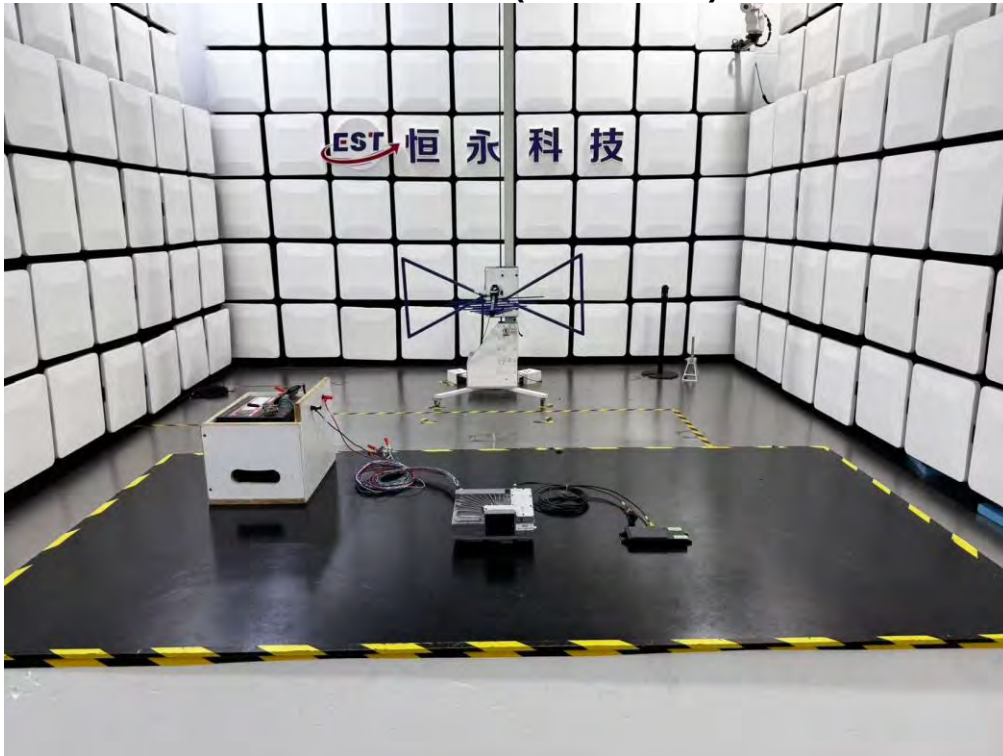


NTNV-11AX20MIMO-Ant2-2437

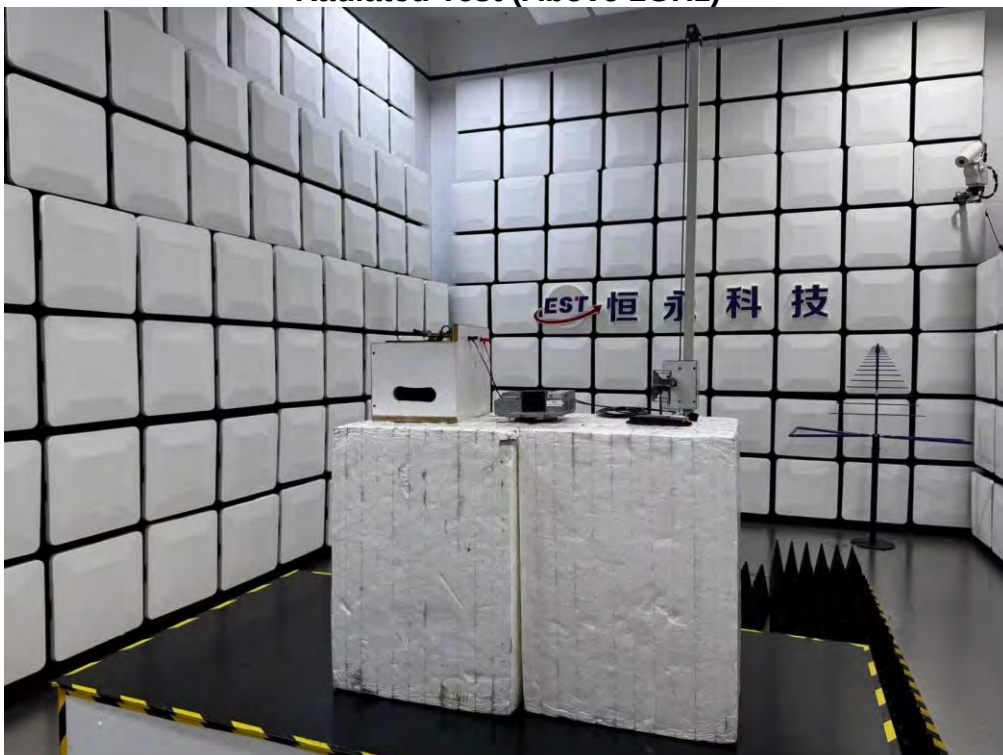


11. TEST SETUP PHOTO

Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)





12. EUT PHOTO

Refer to report no. ESTE-R2503098

End of Test Report