



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: 3D Printer

Test Model: Anycubic Kobra 3

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
Supervised by:	Nick Peng





B.1 DTS Bandwidth

Test Result

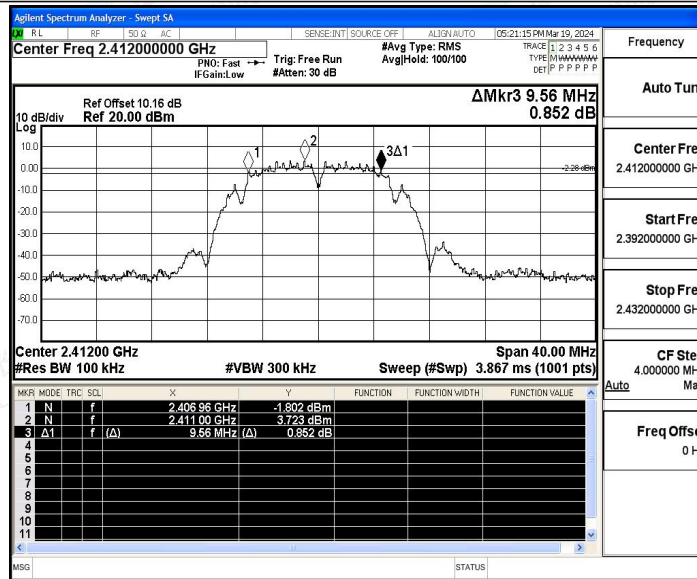
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2406.960	2416.520	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	9.320	2457.240	2466.560	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	15.960	2428.840	2444.800	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.440	2403.920	2420.360	0.5	PASS
		2437	16.840	2428.480	2445.320	0.5	PASS
		2462	16.880	2453.480	2470.360	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.360	2419.240	2454.600	0.5	PASS
		2452	35.760	2434.160	2469.920	0.5	PASS



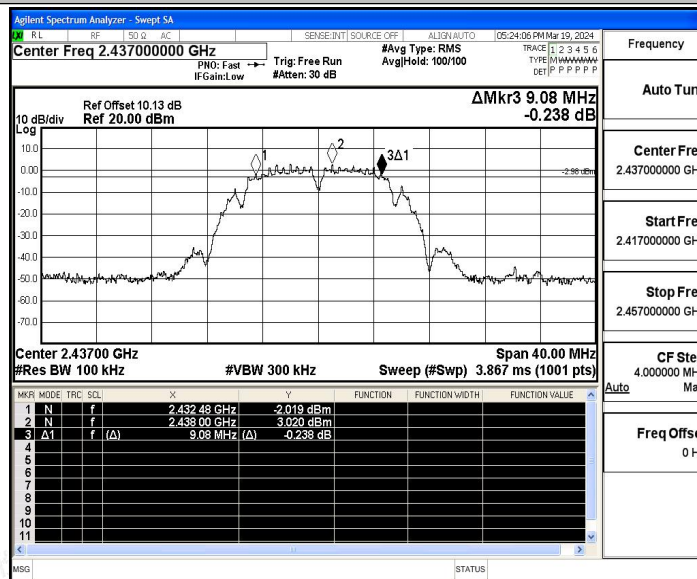


Test Graphs

11B_Ant1_2412

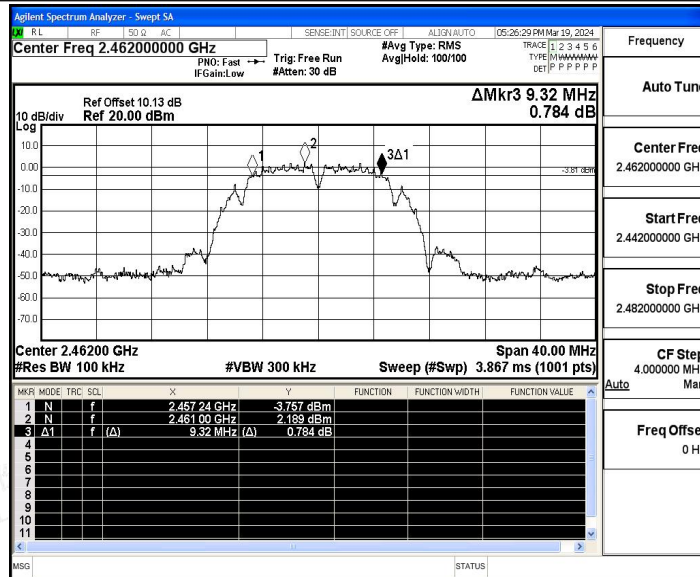


11B_Ant1_2437

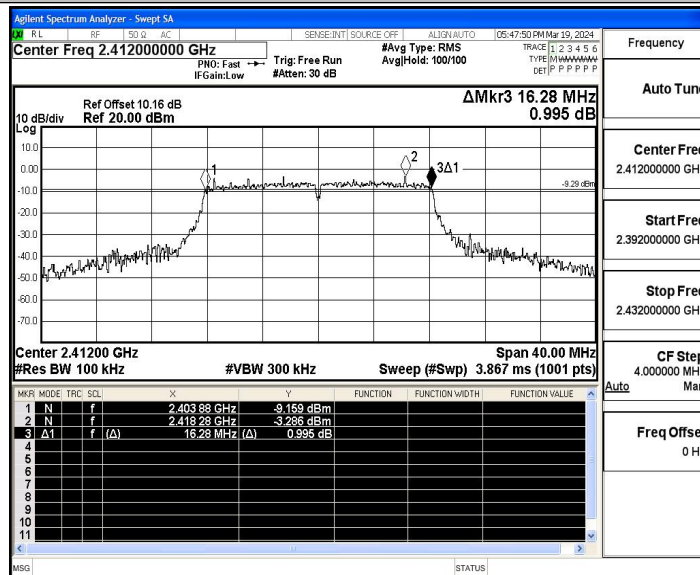


11B_Ant1_2462



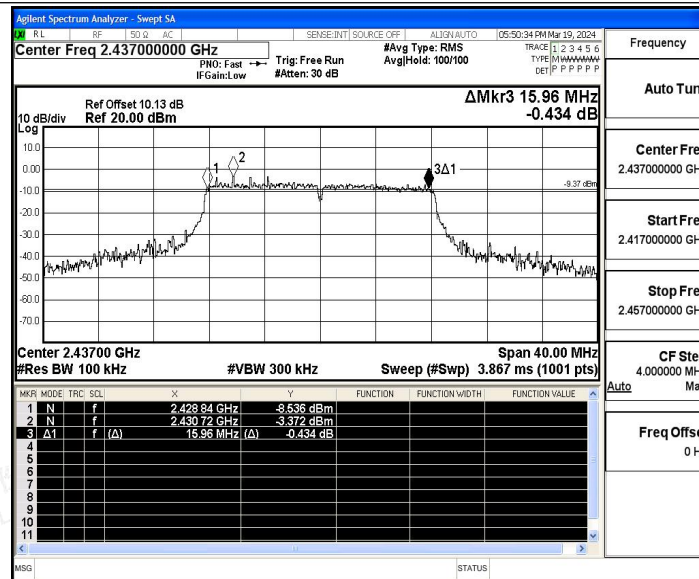


11G_Ant1_2412

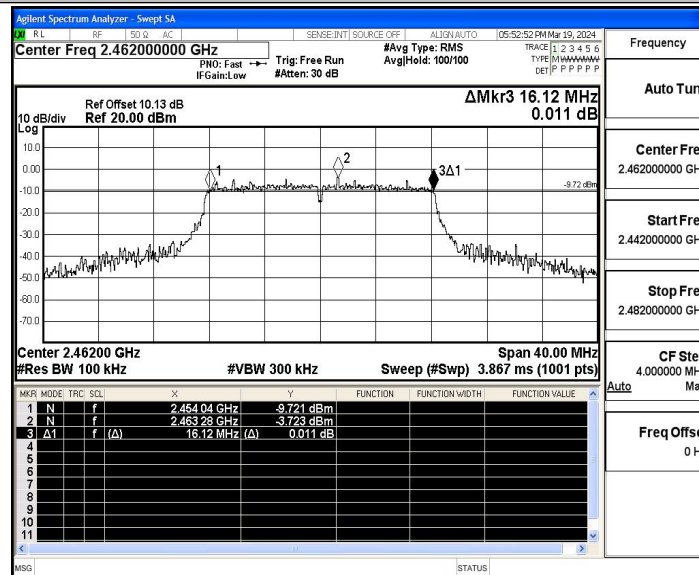


11G_Ant1_2437



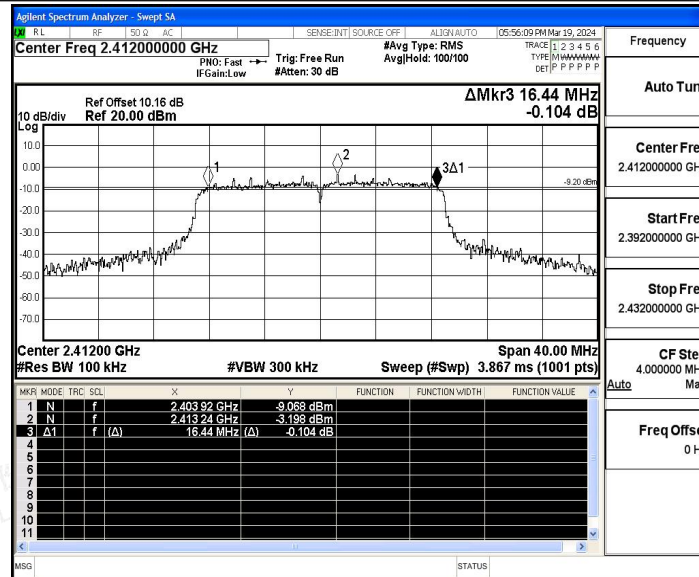


11G_Ant1_2462

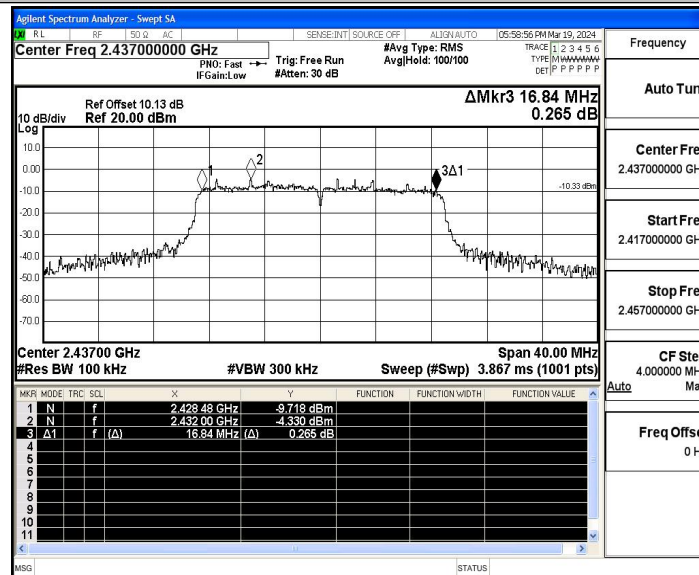


11N20SISO_Ant1_2412



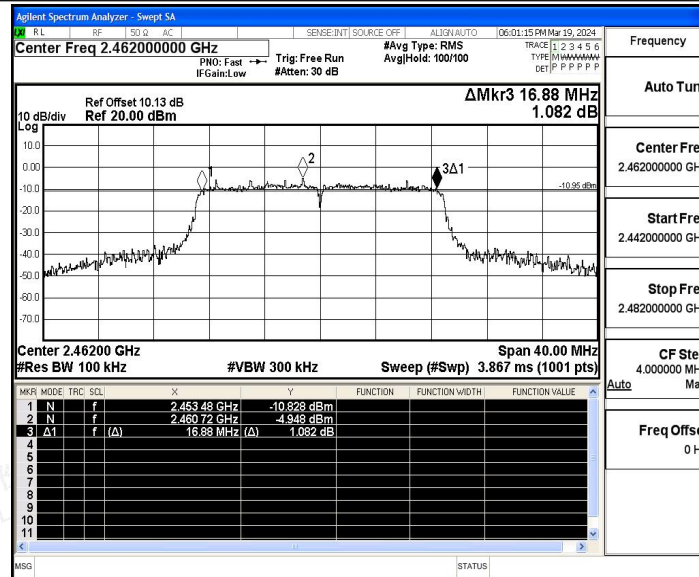


11N20SISO_Ant1_2437

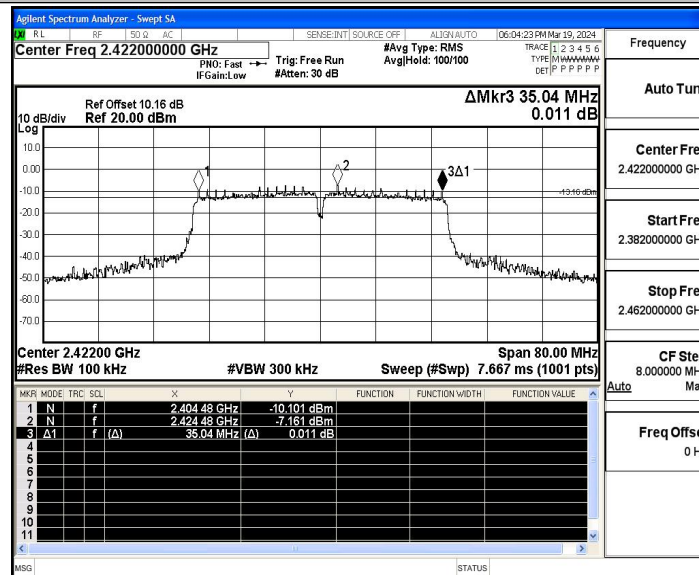


11N20SISO_Ant1_2462



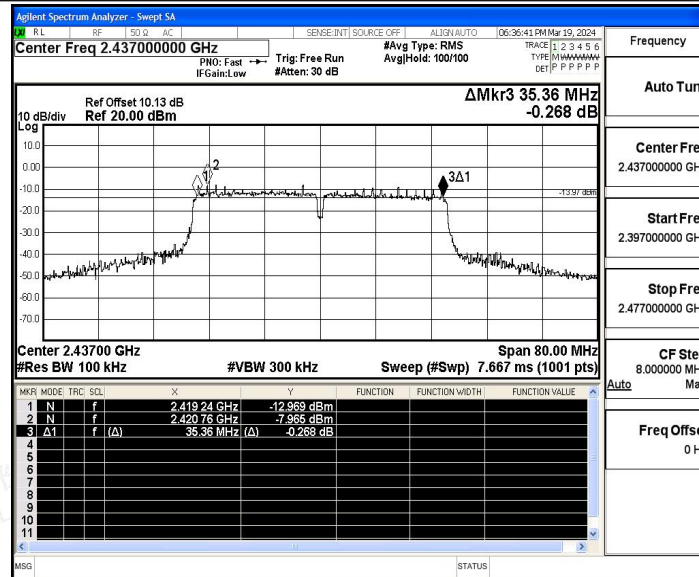


11N40SISO_Ant1_2422

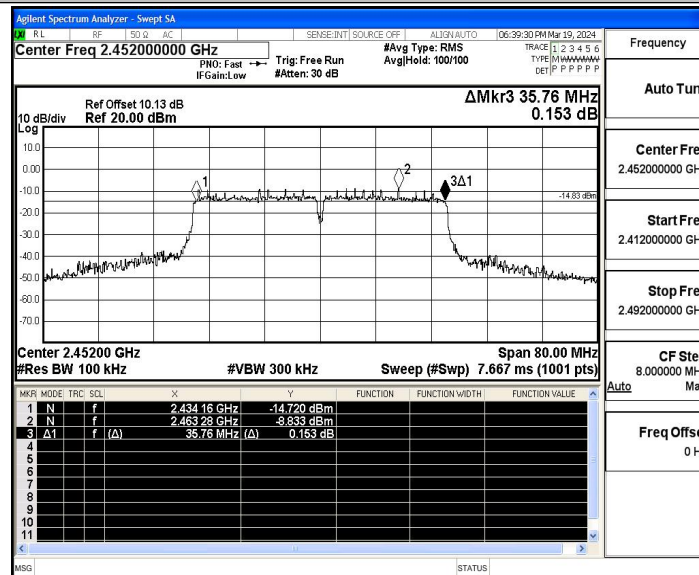


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452



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B.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.76	≤30.00	PASS
		2437	15.06	≤30.00	PASS
		2462	14.68	≤30.00	PASS
11G	Ant1	2412	14.82	≤30.00	PASS
		2437	14.15	≤30.00	PASS
		2462	13.74	≤30.00	PASS
11N20SISO	Ant1	2412	13.98	≤30.00	PASS
		2437	13.13	≤30.00	PASS
		2462	12.71	≤30.00	PASS
11N40SISO	Ant1	2422	12.58	≤30.00	PASS
		2437	12.07	≤30.00	PASS
		2452	11.68	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

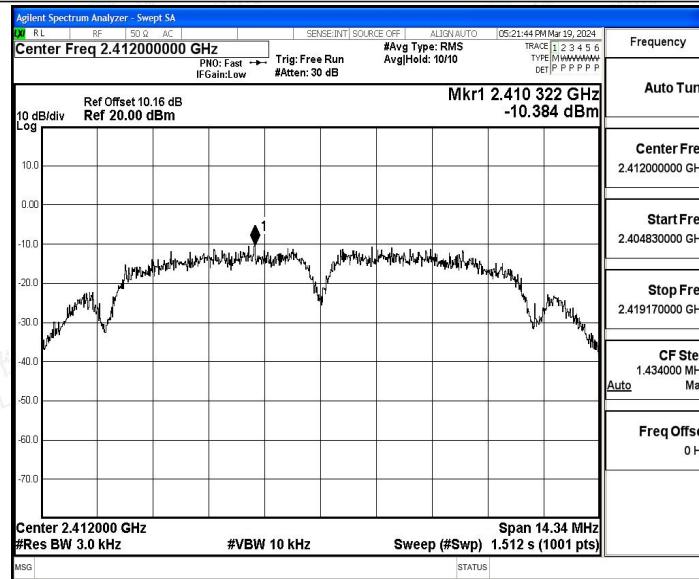
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.38	≤8.00	PASS
		2437	-11.54	≤8.00	PASS
		2462	-8.28	≤8.00	PASS
11G	Ant1	2412	-17.38	≤8.00	PASS
		2437	-17.87	≤8.00	PASS
		2462	-18.16	≤8.00	PASS
11N20SISO	Ant1	2412	-17.34	≤8.00	PASS
		2437	-18.48	≤8.00	PASS
		2462	-18.02	≤8.00	PASS
11N40SISO	Ant1	2422	-22.12	≤8.00	PASS
		2437	-22.44	≤8.00	PASS
		2452	-23.86	≤8.00	PASS



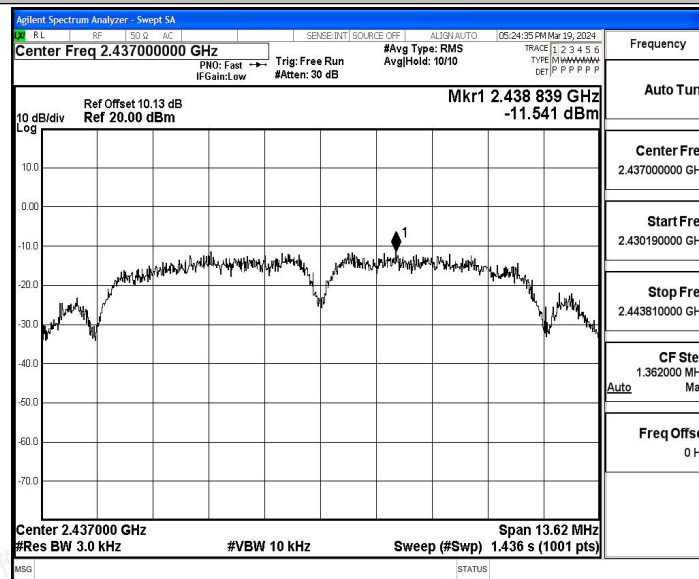


Test Graphs

11B_Ant1_2412

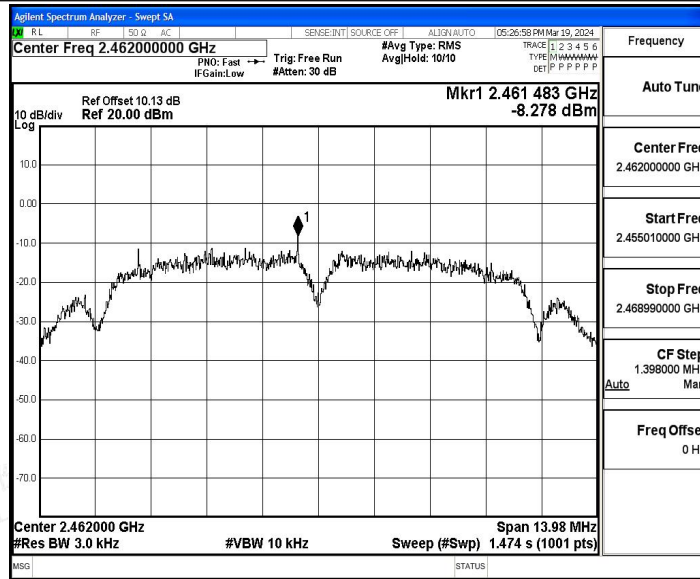


11B_Ant1_2437

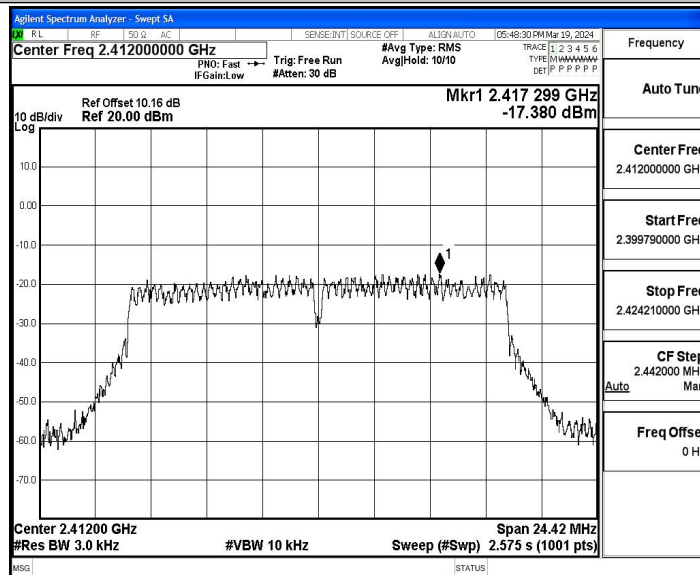


11B_Ant1_2462



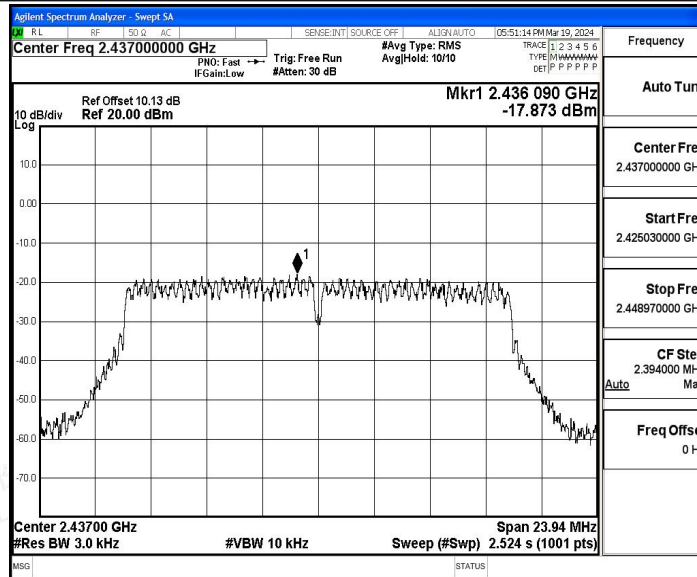


11G_Ant1_2412

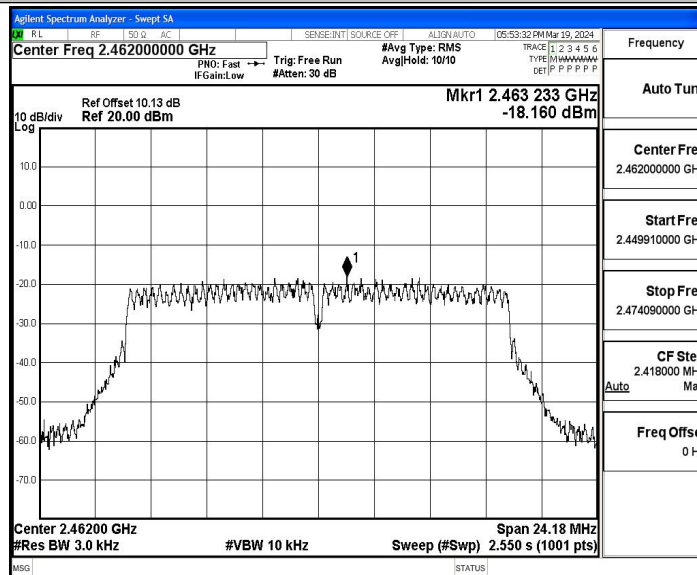


11G_Ant1_2437



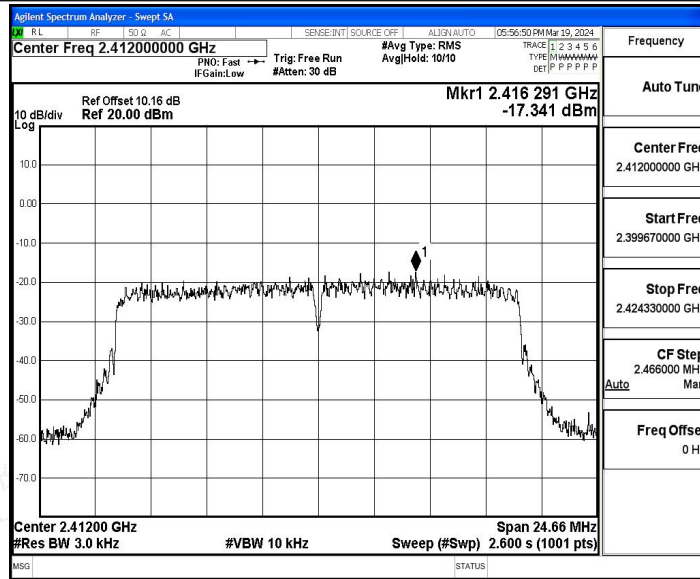


11G_Ant1_2462

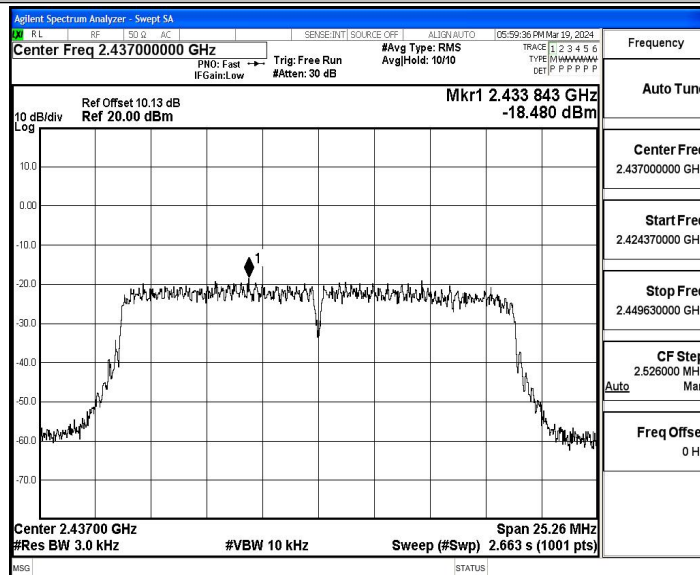


11N20SISO_Ant1_2412



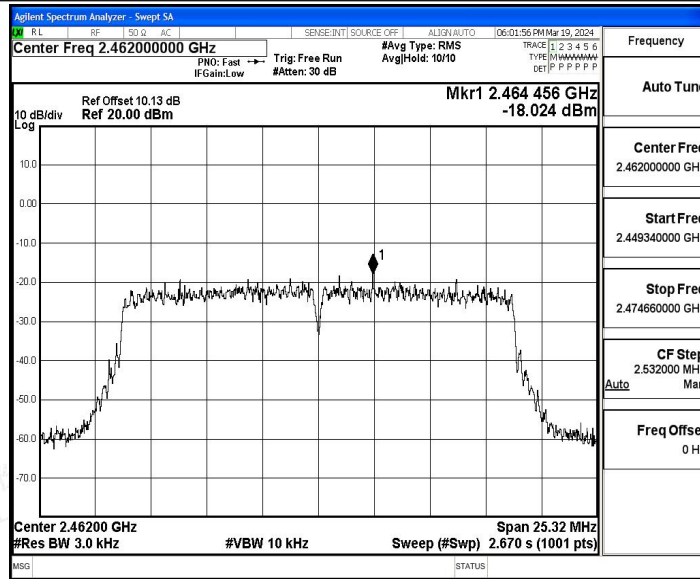


11N20SISO_Ant1_2437

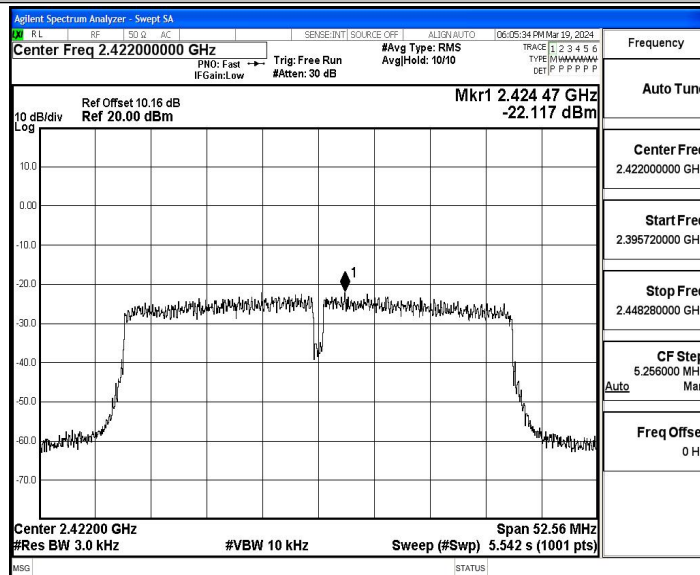


11N20SISO_Ant1_2462



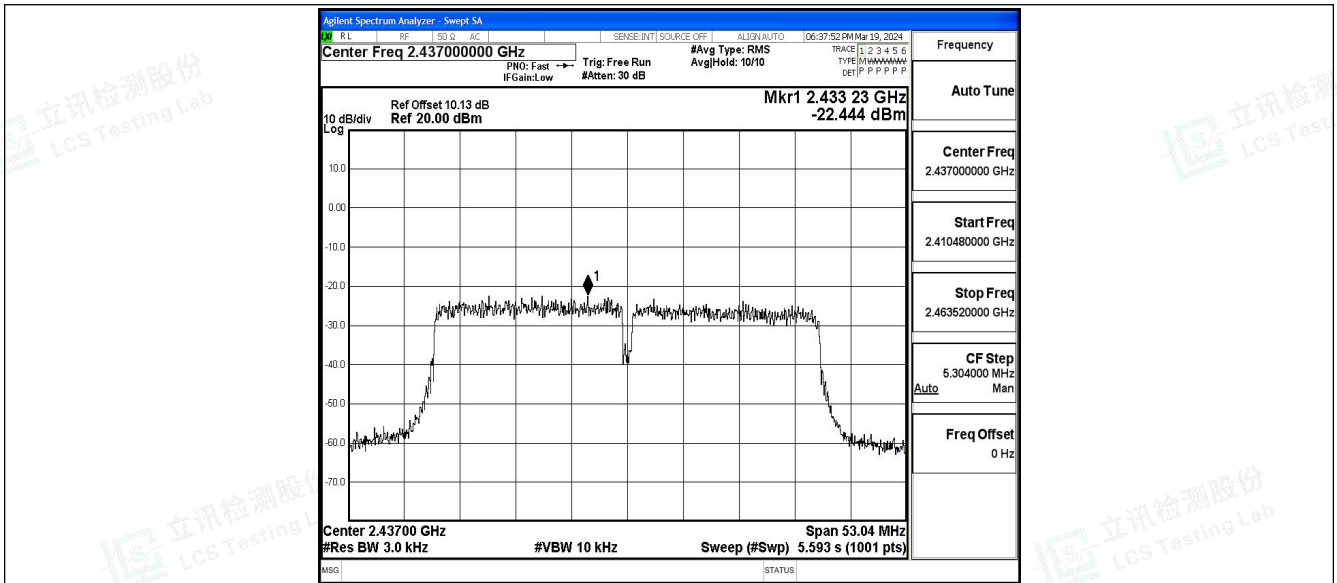


11N40SISO_Ant1_2422

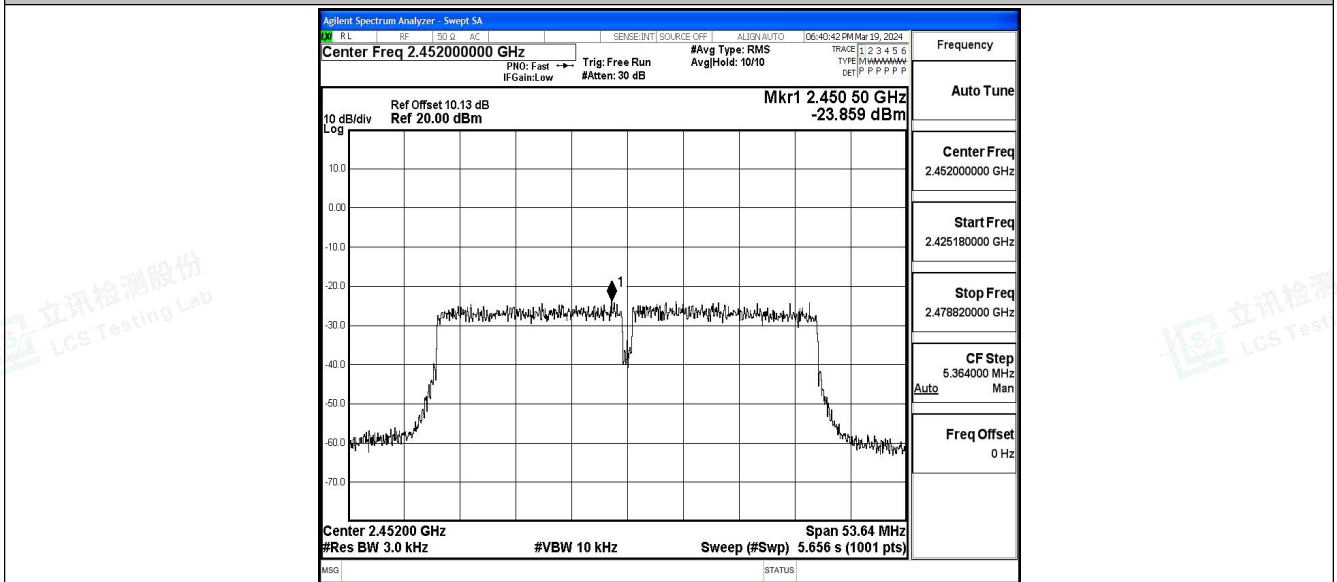


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.4 Band edge measurements

Test Result

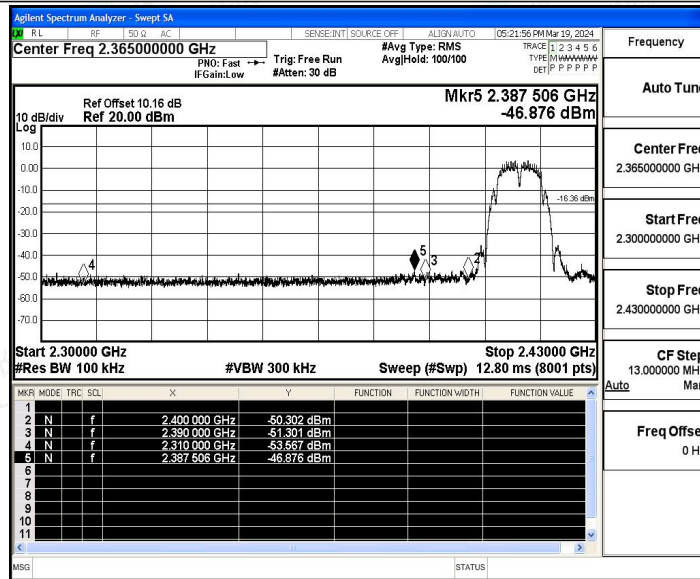
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.64	-46.88	≤ -16.36	PASS
		High	2462	2.44	-47.22	≤ -17.56	PASS
11G	Ant1	Low	2412	-2.15	-35.05	≤ -22.15	PASS
		High	2462	-3.96	-47.53	≤ -23.96	PASS
11N20SISO	Ant1	Low	2412	-4.04	-37.67	≤ -24.04	PASS
		High	2462	-4.97	-47.74	≤ -24.97	PASS
11N40SISO	Ant1	Low	2422	-7.27	-39.36	≤ -27.27	PASS
		High	2452	-8.91	-44.89	≤ -28.91	PASS



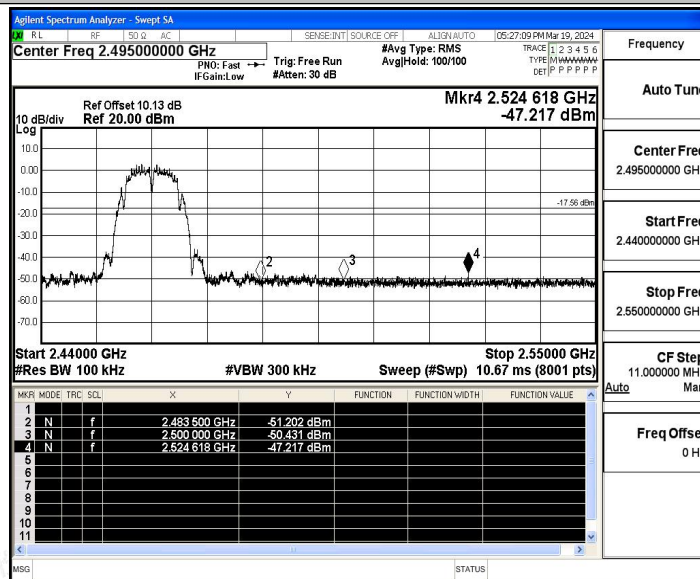


Test Graphs

11B_Ant1_Low_2412

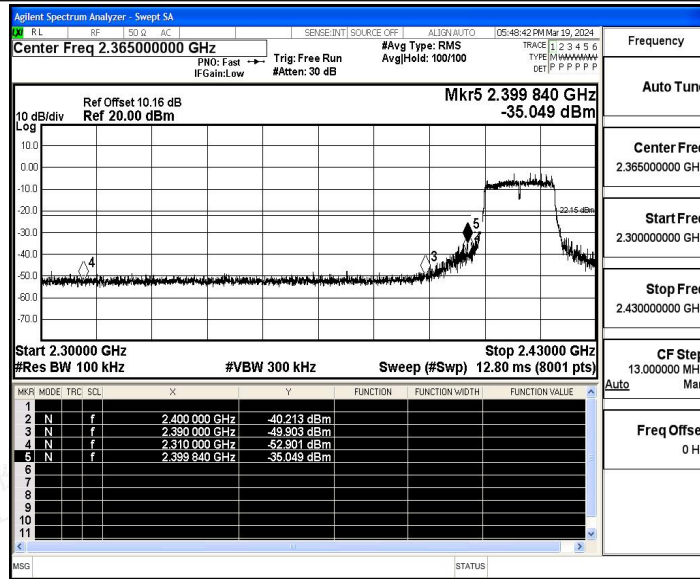


11B_Ant1_High_2462

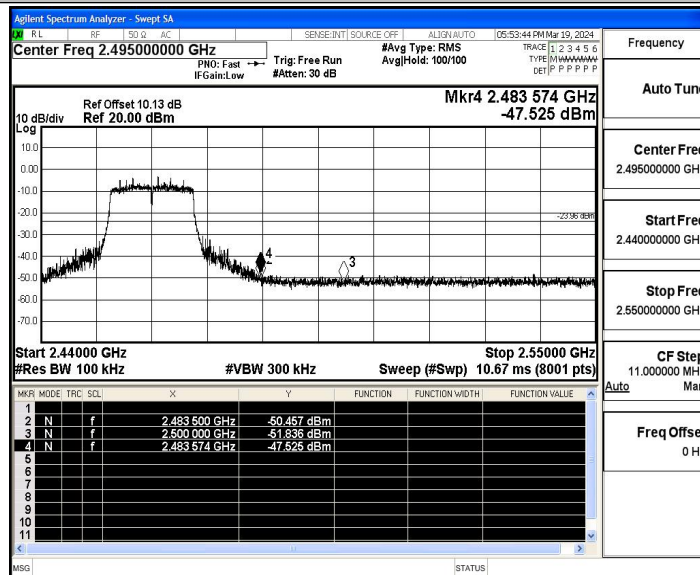


11G_Ant1_Low_2412



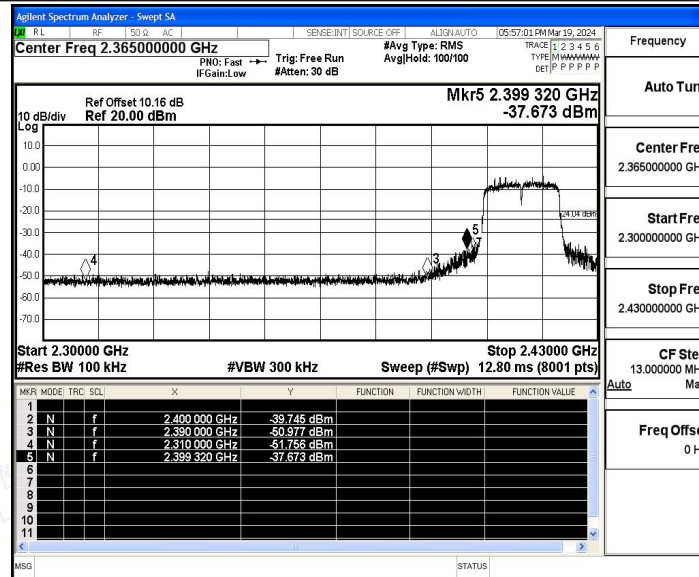


11G_Ant1_High_2462

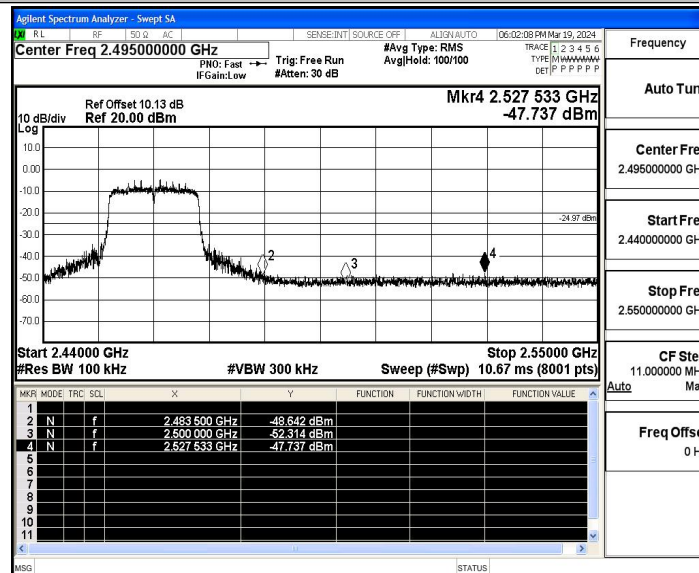


11N20SISO_Ant1_Low_2412



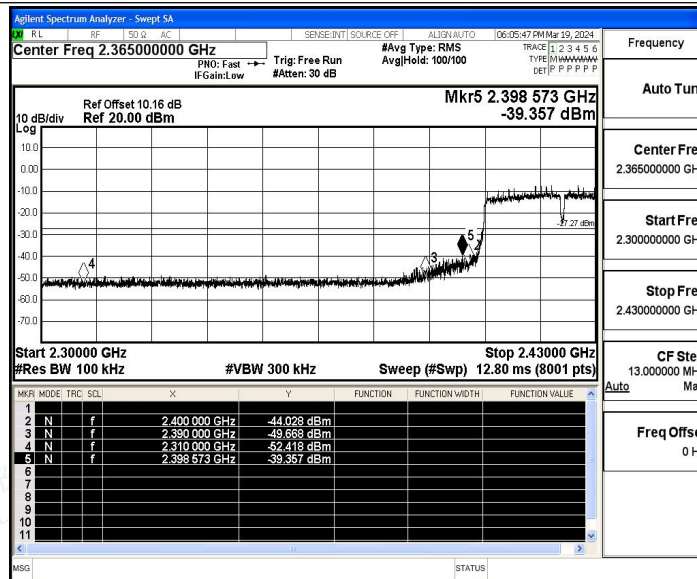


11N20SISO_Ant1_High_2462

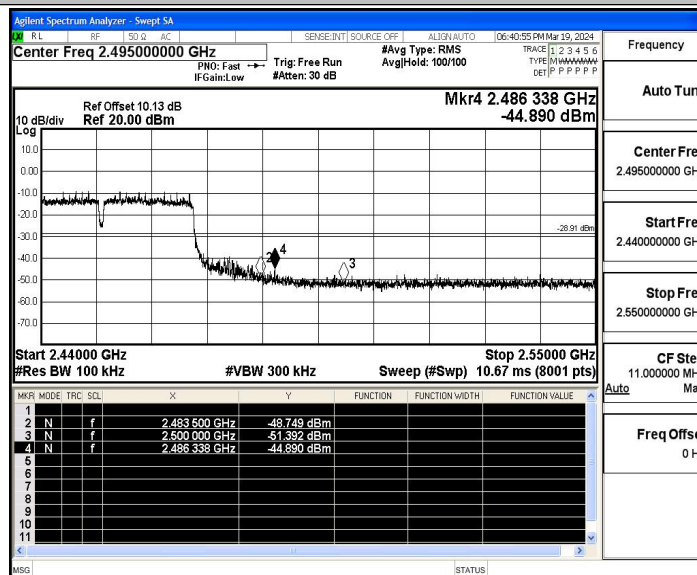


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.64	-60	≤-16.36	PASS
			1000~26500	3.64	-46.9	≤-16.36	PASS
		2437	30~1000	3.05	-59.49	≤-16.95	PASS
			1000~26500	3.05	-46.74	≤-16.95	PASS
		2462	30~1000	2.44	-59.65	≤-17.56	PASS
			1000~26500	2.44	-46.62	≤-17.56	PASS
11G	Ant1	2412	30~1000	-2.15	-59.68	≤-22.15	PASS
			1000~26500	-2.15	-47.04	≤-22.15	PASS
		2437	30~1000	-3.33	-60.02	≤-23.33	PASS
			1000~26500	-3.33	-46.82	≤-23.33	PASS
		2462	30~1000	-3.96	-59.3	≤-23.96	PASS
			1000~26500	-3.96	-47.42	≤-23.96	PASS
11N20SISO	Ant1	2412	30~1000	-4.04	-59.76	≤-24.04	PASS
			1000~26500	-4.04	-47.8	≤-24.04	PASS
		2437	30~1000	-4.81	-60.36	≤-24.81	PASS
			1000~26500	-4.81	-47.3	≤-24.81	PASS
		2462	30~1000	-4.97	-60.02	≤-24.97	PASS
			1000~26500	-4.97	-46.68	≤-24.97	PASS
11N40SISO	Ant1	2422	30~1000	-7.27	-60.21	≤-27.27	PASS
			1000~26500	-7.27	-46.63	≤-27.27	PASS
		2437	30~1000	-8.01	-60.16	≤-28.01	PASS
			1000~26500	-8.01	-46.84	≤-28.01	PASS
		2452	30~1000	-8.91	-59.6	≤-28.91	PASS
			1000~26500	-8.91	-47.31	≤-28.91	PASS



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