



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: ROBOTIC POOL CLEANER

Test Model: OS7010C

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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C.1 DTS Bandwidth

Test Result

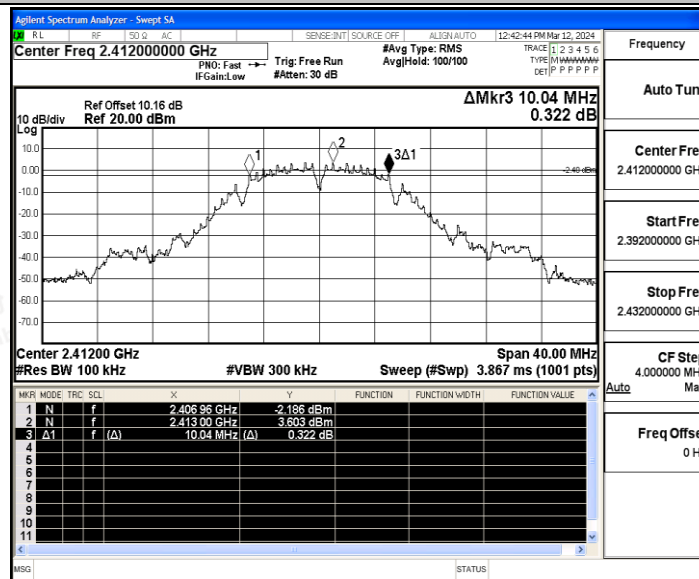
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	9.120	2432.440	2441.560	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	15.440	2404.480	2419.920	0.5	PASS
		2437	13.760	2430.760	2444.520	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	14.400	2405.080	2419.480	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.000	2454.720	2469.720	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS



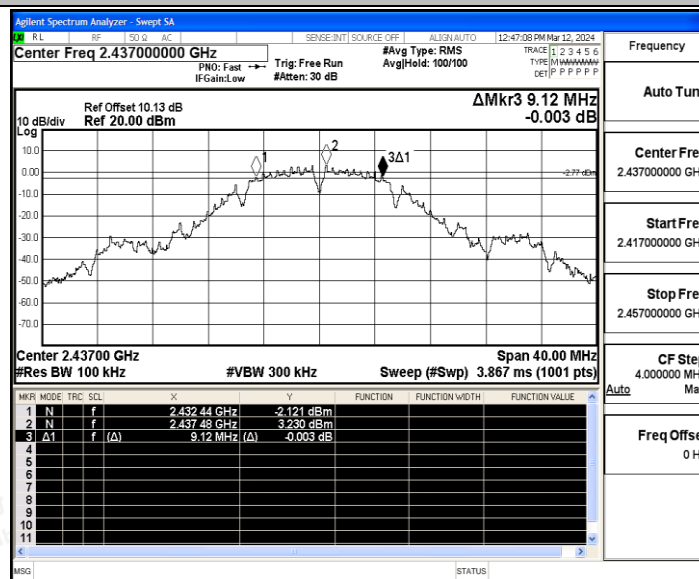


Test Graphs

11B_Ant1_2412

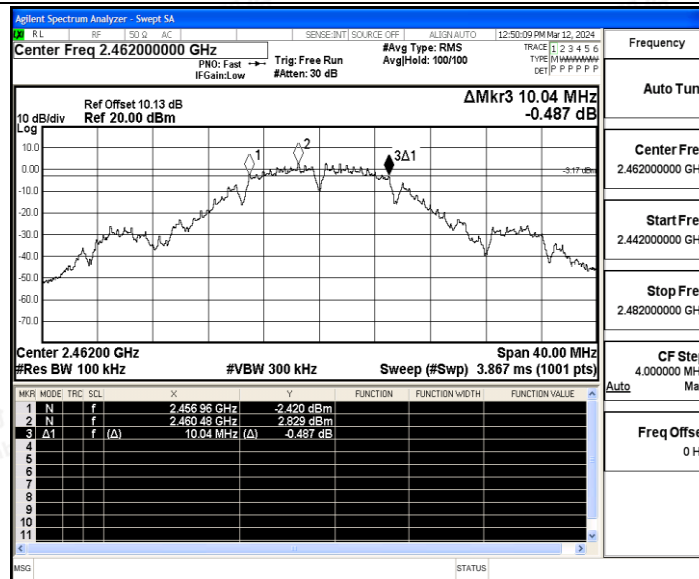


11B_Ant1_2437

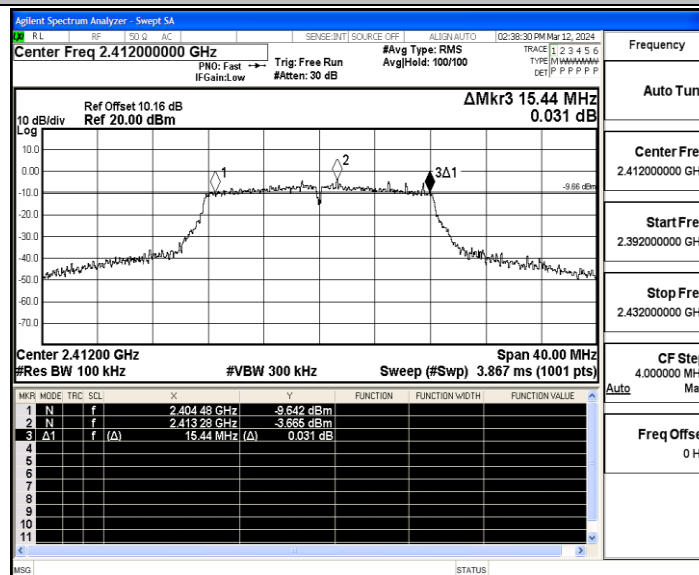


11B_Ant1_2462





11G_Ant1_2412



11G_Ant1_2437

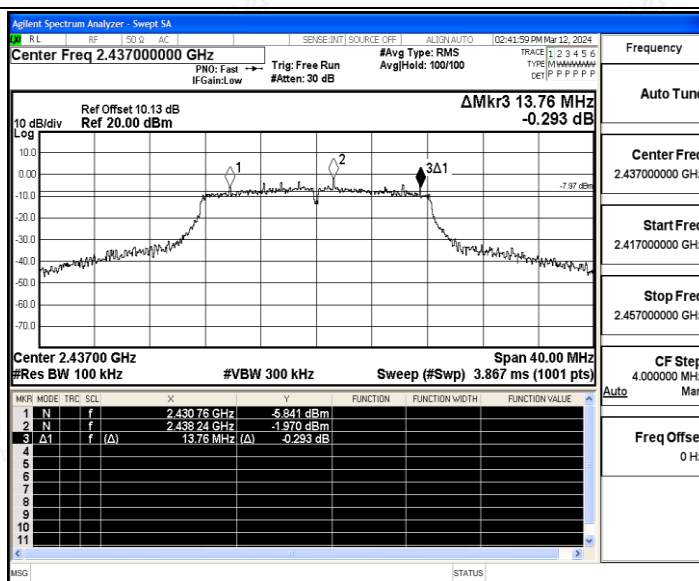


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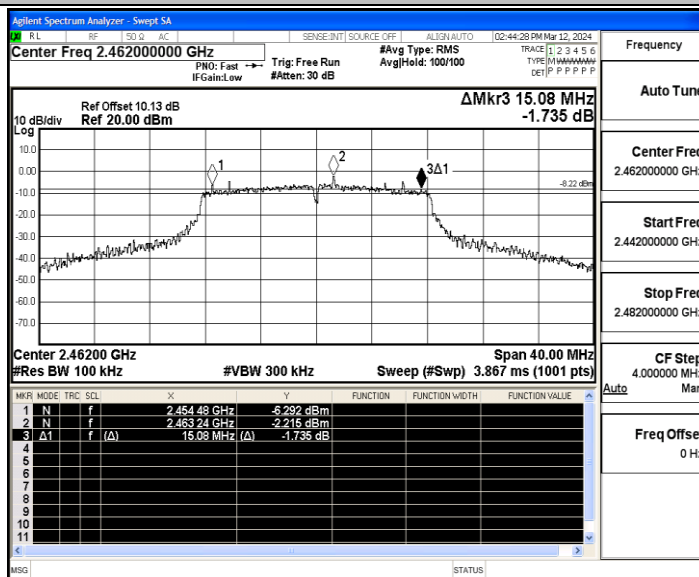
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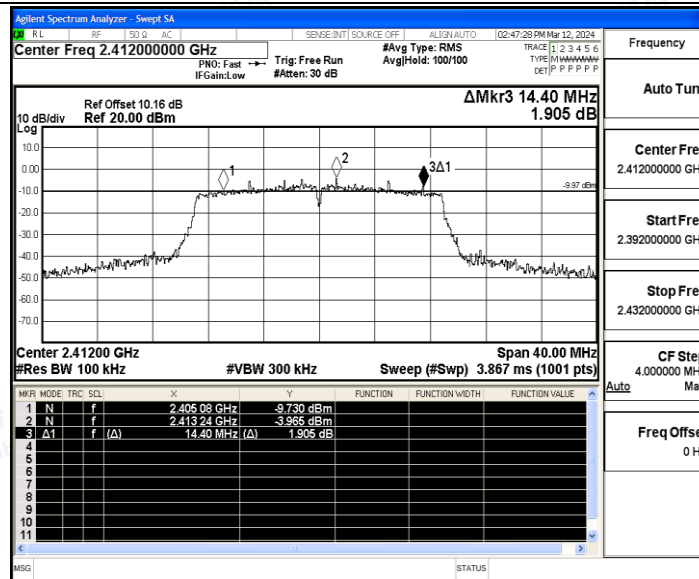


11G Ant1 2462

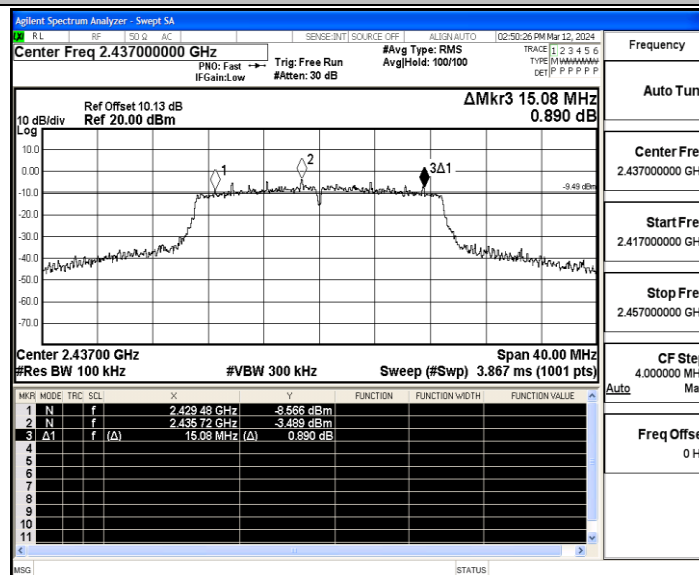


11N20SISO Ant1 2412





11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

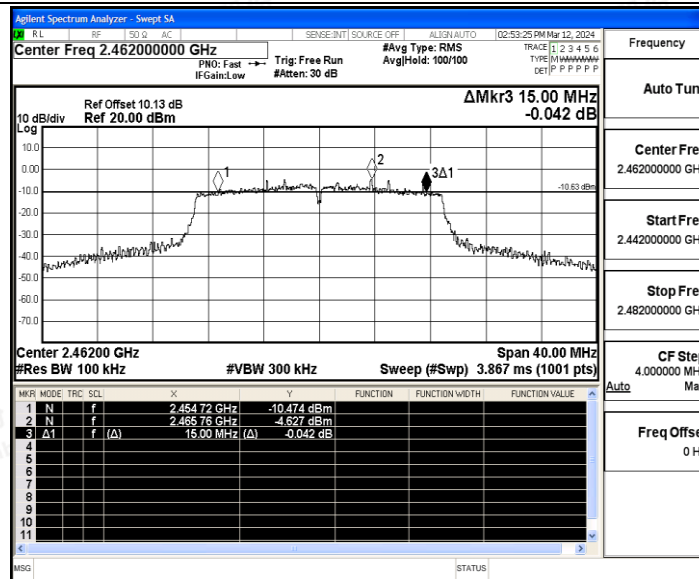


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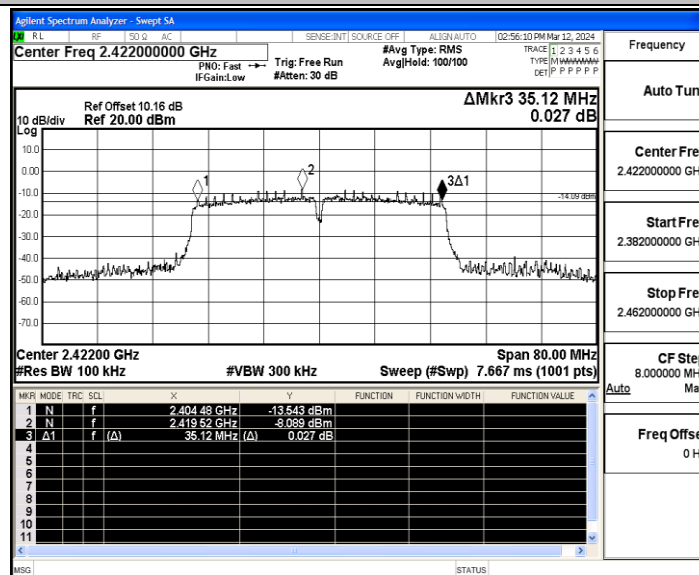
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

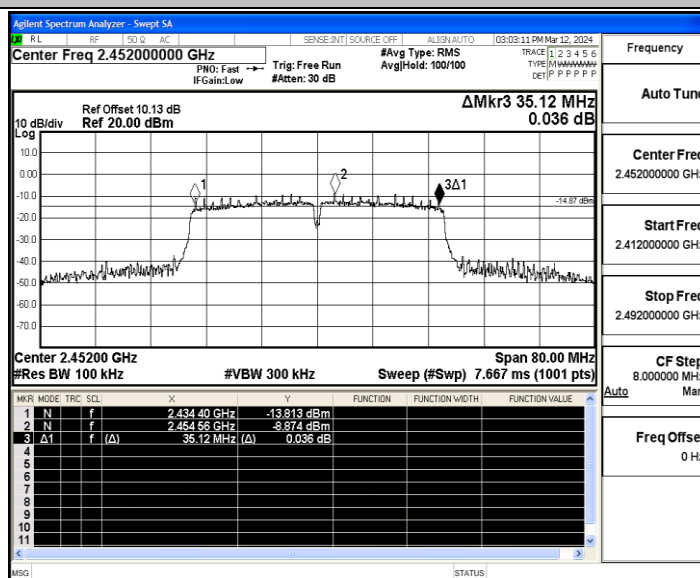


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C.2 Maximum Peak conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	15.31	≤30.00	PASS
		2437	---	15.15	≤30.00	PASS
		2462	---	14.94	≤30.00	PASS
11G	Ant1	2412	---	13.81	≤30.00	PASS
		2437	---	14.27	≤30.00	PASS
		2462	---	13.89	≤30.00	PASS
11N20SISO	Ant1	2412	---	12.86	≤30.00	PASS
		2437	---	13.41	≤30.00	PASS
		2462	---	13.01	≤30.00	PASS
11N40SISO	Ant1	2422	---	11.81	≤30.00	PASS
		2437	---	11.64	≤30.00	PASS
		2452	---	11.37	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

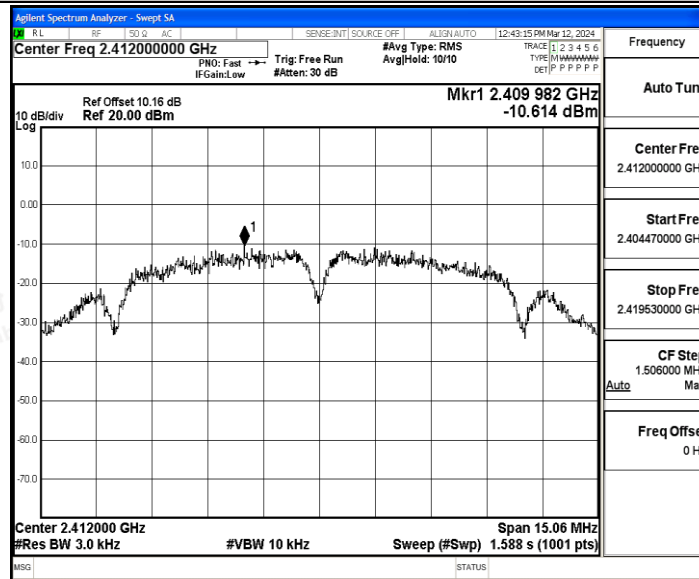
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.61	≤8.00	PASS
		2437	-9.25	≤8.00	PASS
		2462	-10.11	≤8.00	PASS
11G	Ant1	2412	-16.84	≤8.00	PASS
		2437	-16.92	≤8.00	PASS
		2462	-16.55	≤8.00	PASS
11N20SISO	Ant1	2412	-18.70	≤8.00	PASS
		2437	-17.33	≤8.00	PASS
		2462	-17.72	≤8.00	PASS
11N40SISO	Ant1	2422	-22.20	≤8.00	PASS
		2437	-22.78	≤8.00	PASS
		2452	-22.09	≤8.00	PASS



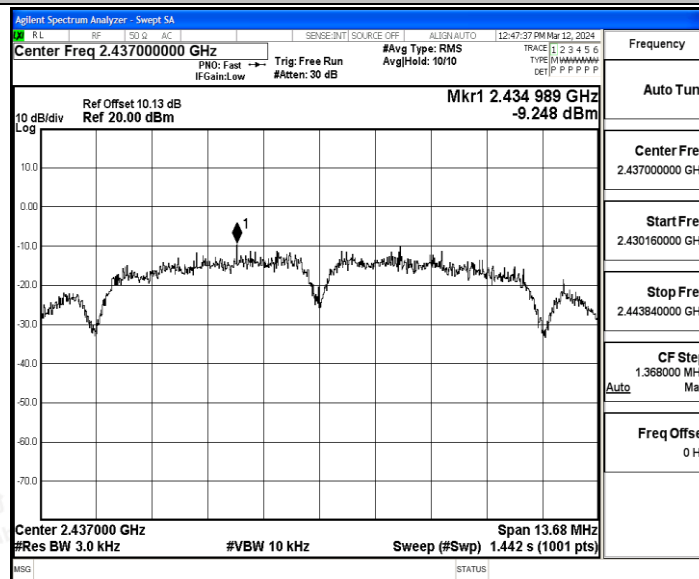


Test Graphs

11B_Ant1_2412

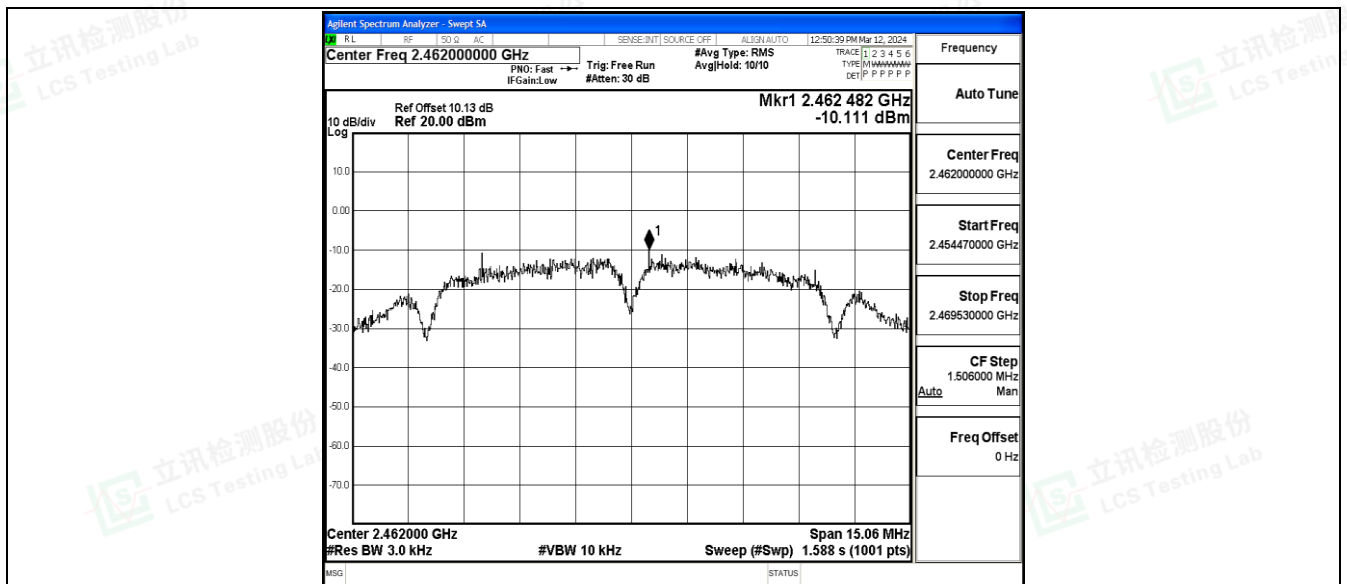


11B_Ant1_2437

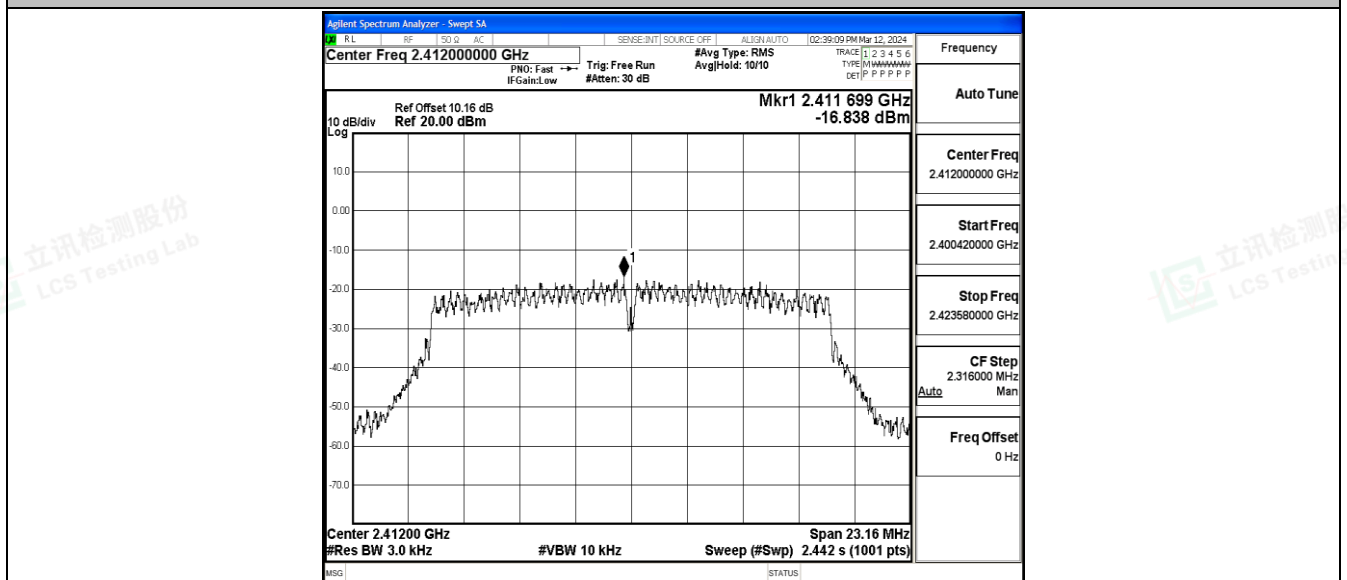


11B_Ant1_2462



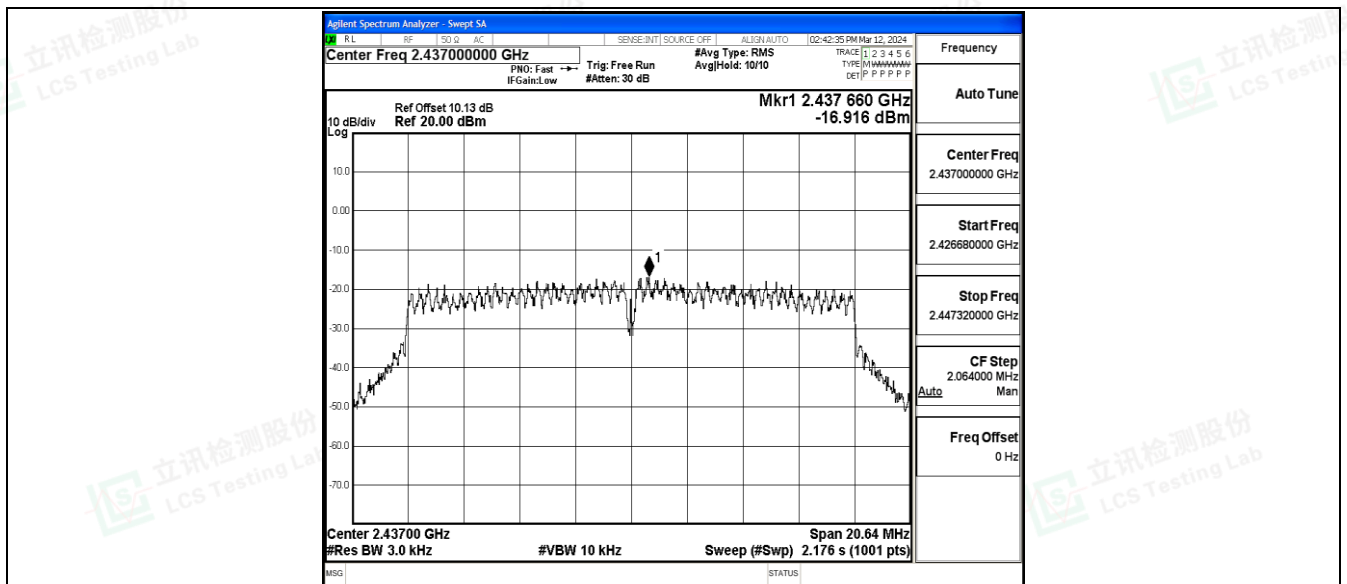


11G_Ant1_2412

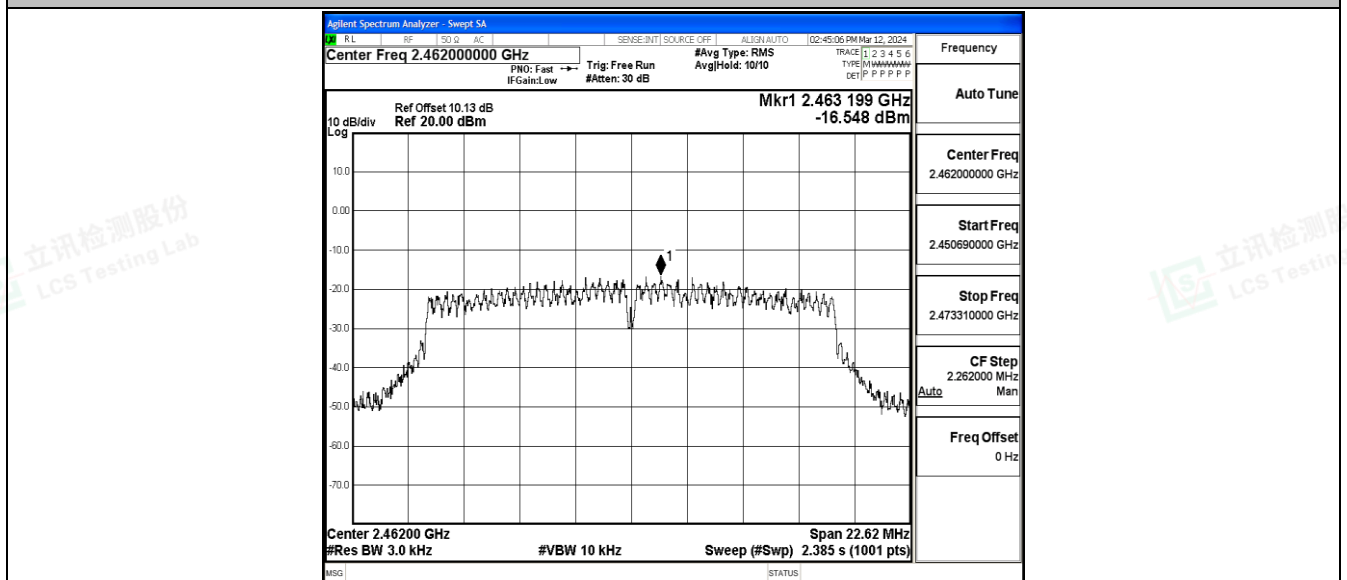


11G_Ant1_2437



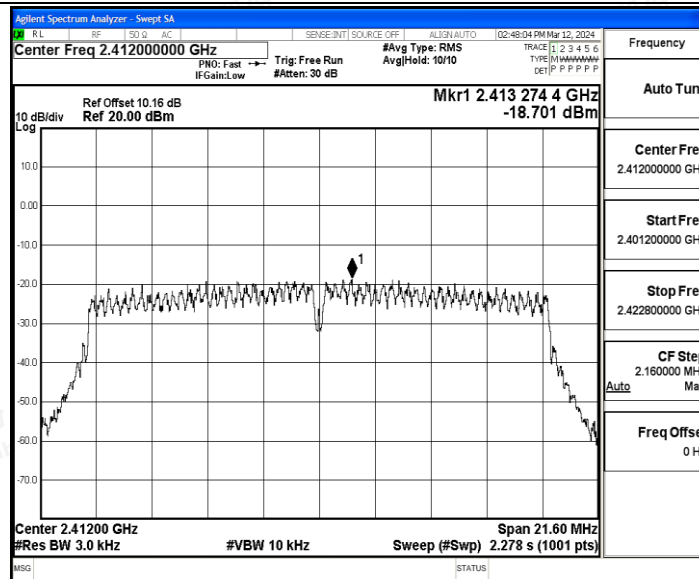


11G_Ant1_2462

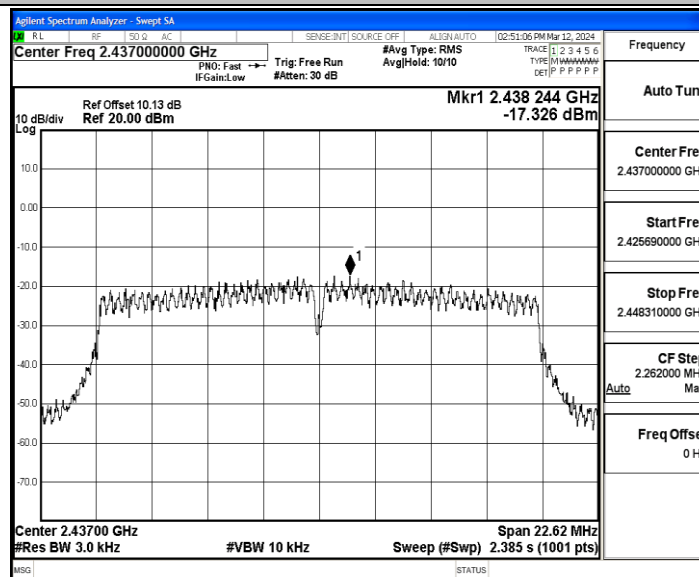


11N20SISO_Ant1_2412



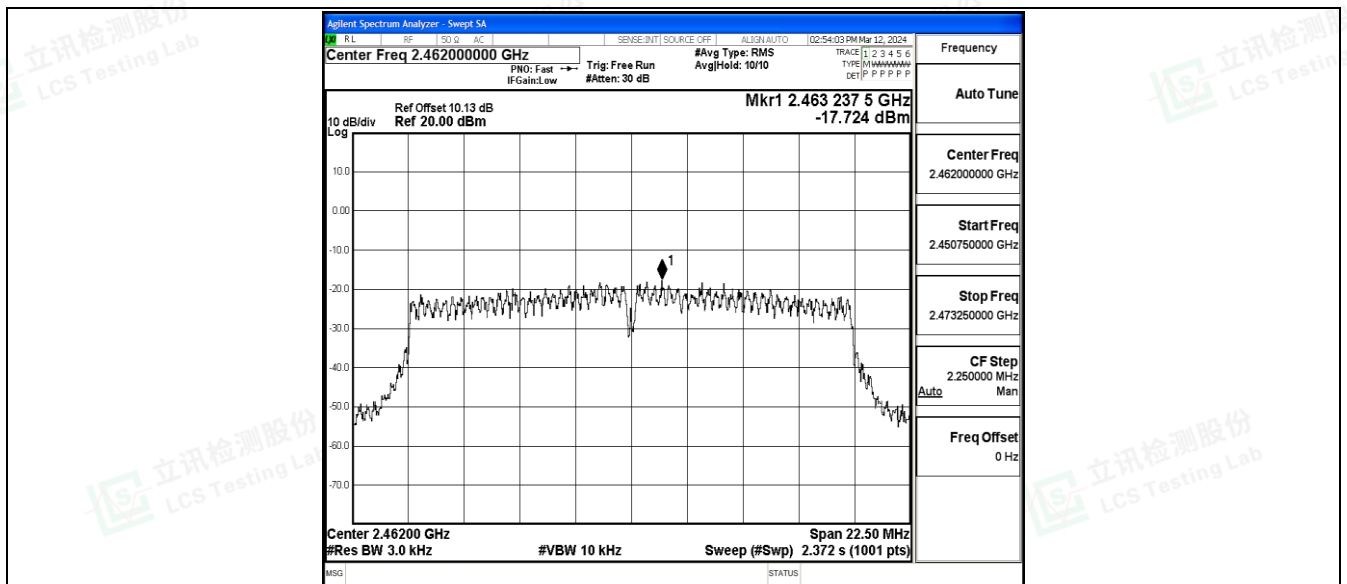


11N20SISO_Ant1_2437

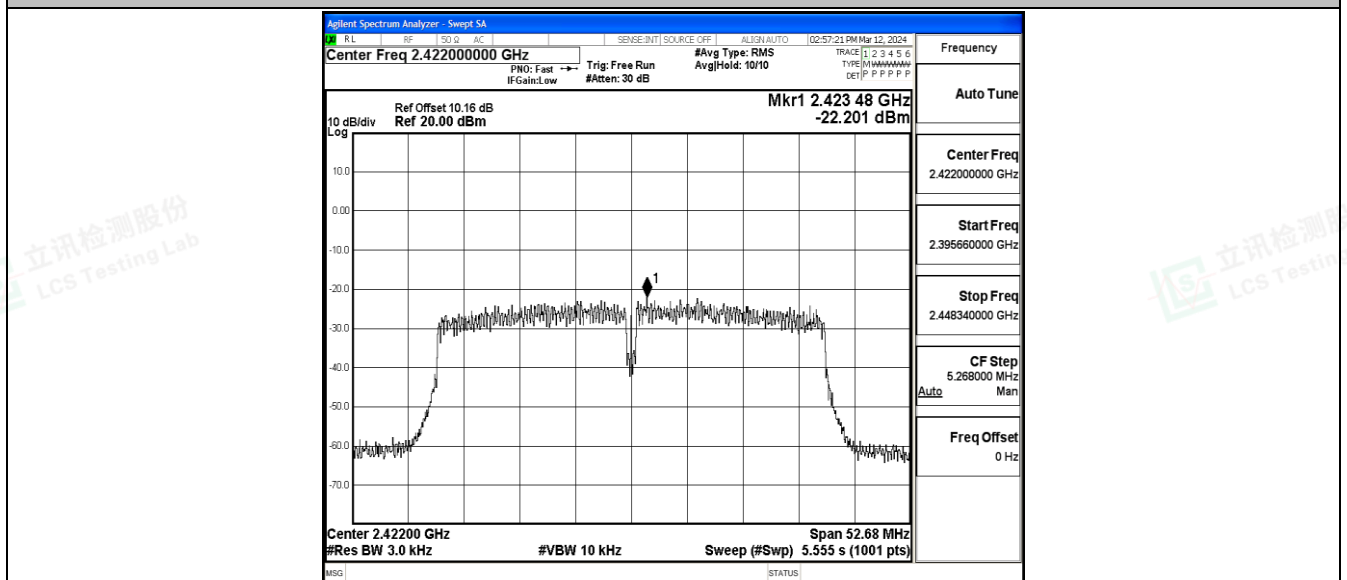


11N20SISO_Ant1_2462



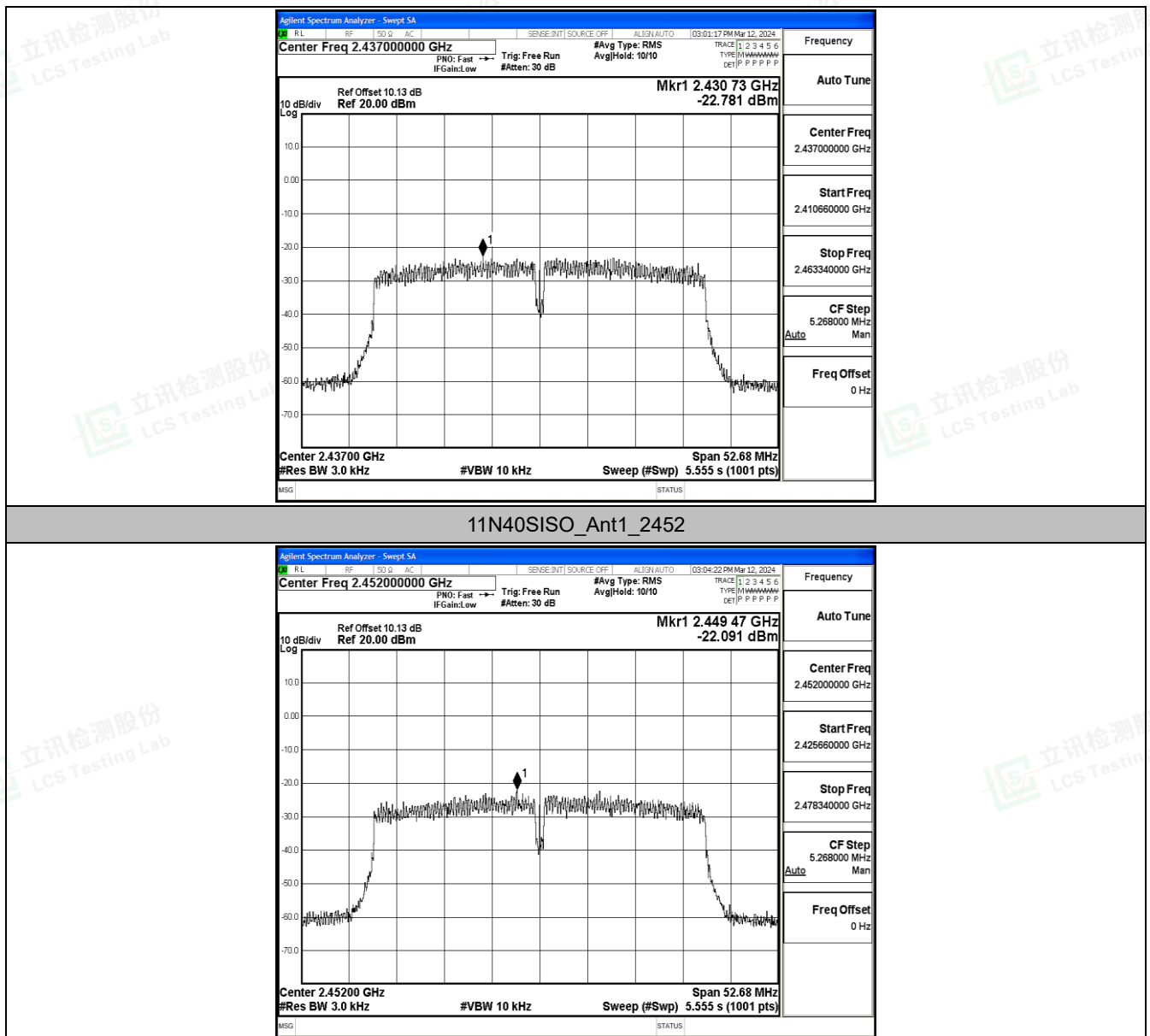


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437







C.4 Band edge measurements

Test Result

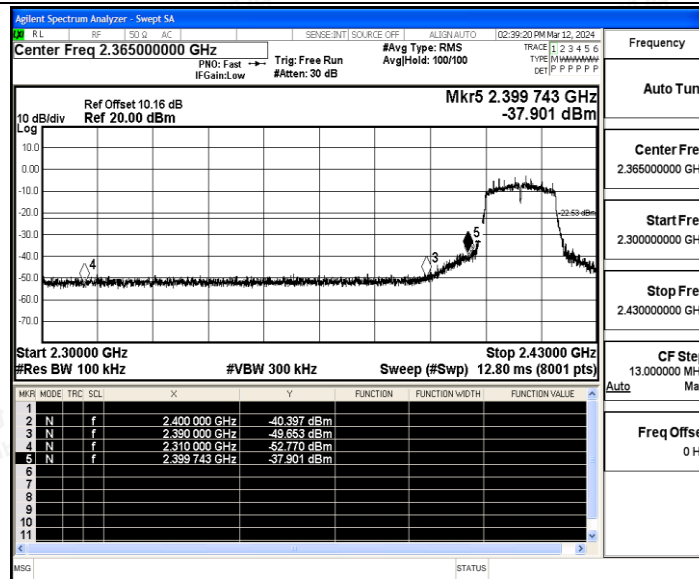
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.30	-35.79	≤ -16.7	PASS
		High	2462	2.98	-40.72	≤ -17.02	PASS
11G	Ant1	Low	2412	-2.53	-37.9	≤ -22.53	PASS
		High	2462	-2.56	-45.86	≤ -22.56	PASS
11N20SISO	Ant1	Low	2412	-4.27	-39.75	≤ -24.27	PASS
		High	2462	-3.69	-45.88	≤ -23.69	PASS
11N40SISO	Ant1	Low	2422	-8.26	-40.8	≤ -28.26	PASS
		High	2452	-8.59	-41.75	≤ -28.59	PASS



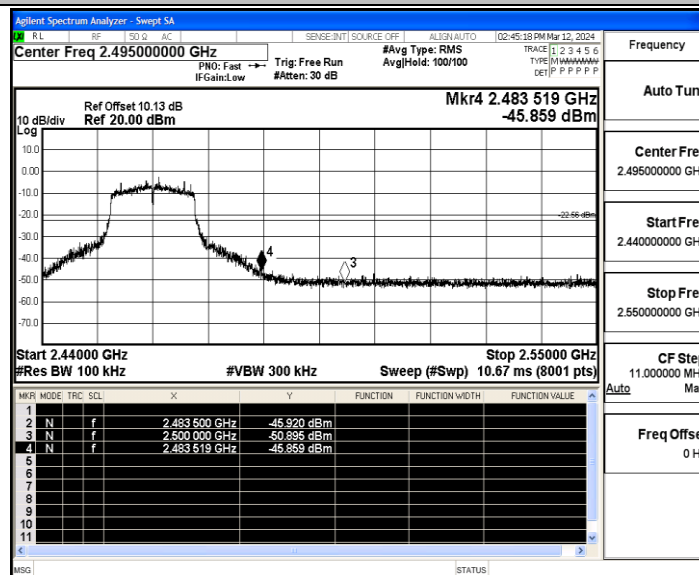
Test Graphs



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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

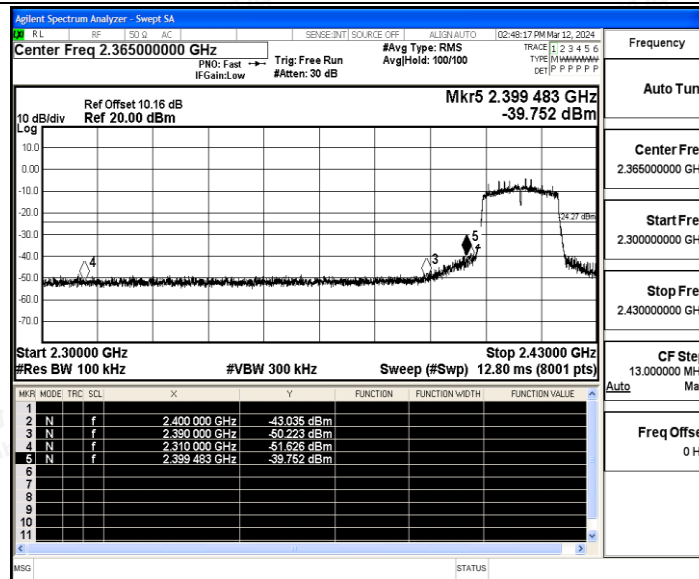


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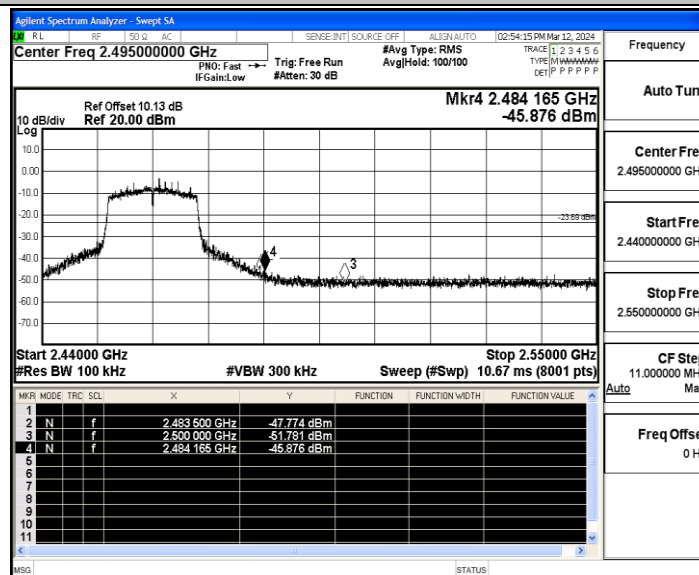
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

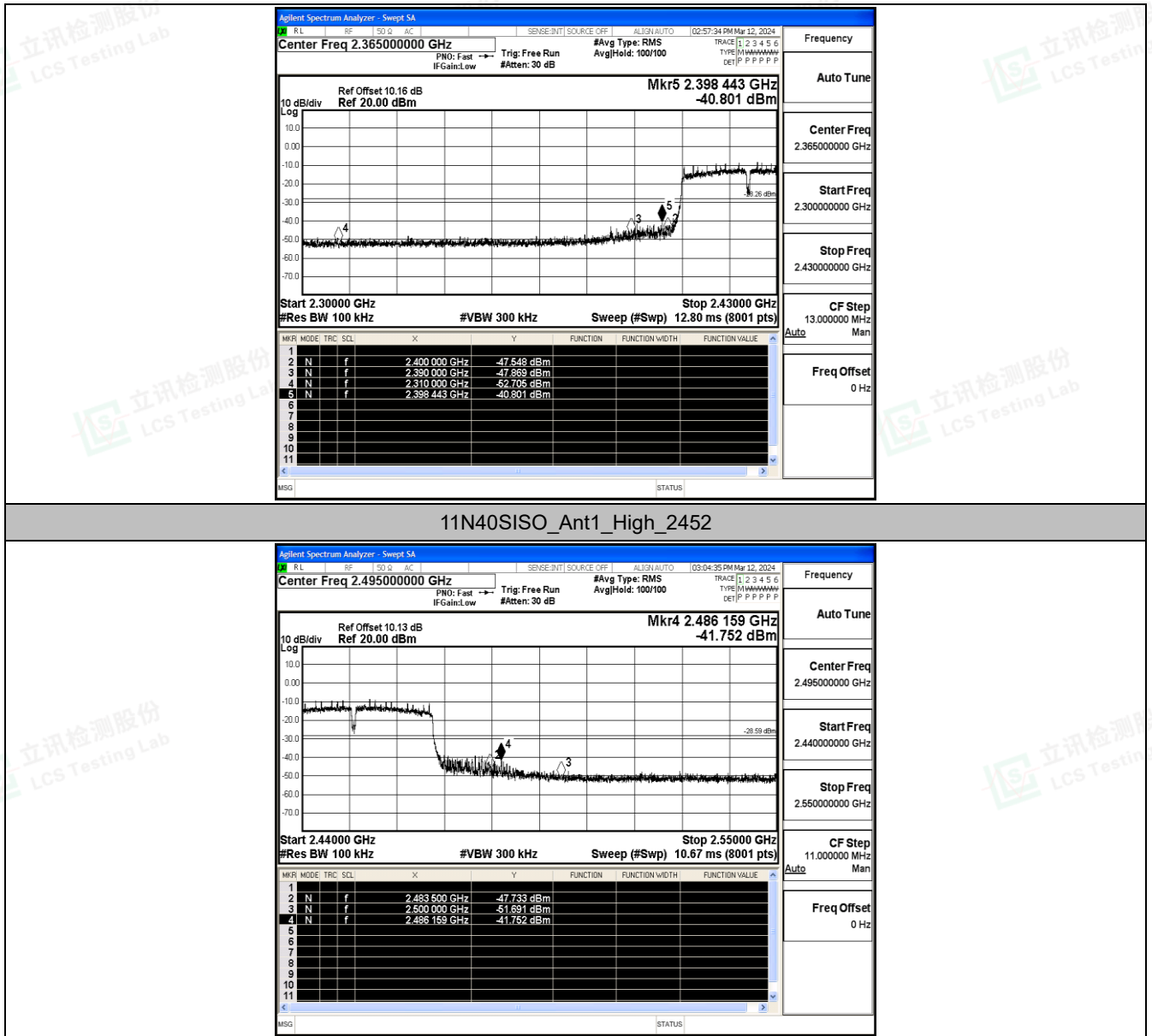


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C.5 Conducted Spurious Emission

Test Result

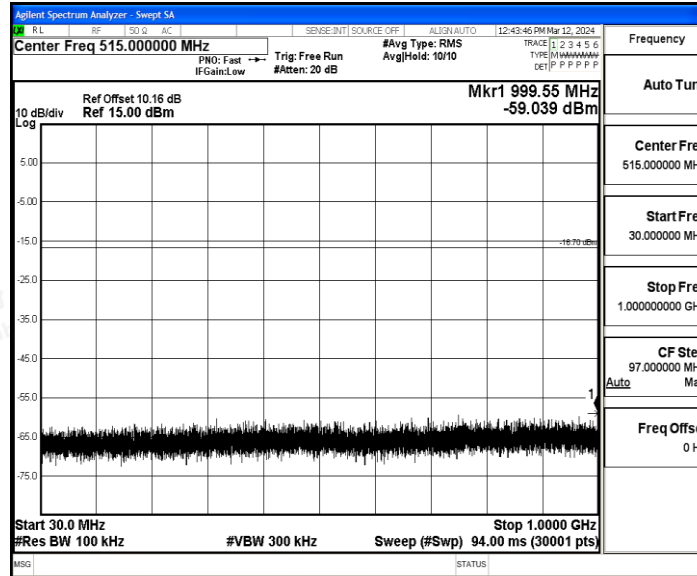
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.30	-59.04	≤-16.7	PASS
			1000~26500	3.30	-47.05	≤-16.7	PASS
		2437	30~1000	3.24	-59.31	≤-16.76	PASS
			1000~26500	3.24	-47.05	≤-16.76	PASS
		2462	30~1000	2.98	-59.82	≤-17.02	PASS
			1000~26500	2.98	-47.76	≤-17.02	PASS
11G	Ant1	2412	30~1000	-2.53	-58.72	≤-22.53	PASS
			1000~26500	-2.53	-46.73	≤-22.53	PASS
		2437	30~1000	-3.46	-59.9	≤-23.46	PASS
			1000~26500	-3.46	-47.1	≤-23.46	PASS
		2462	30~1000	-2.56	-59.8	≤-22.56	PASS
			1000~26500	-2.56	-47.49	≤-22.56	PASS
11N20SISO	Ant1	2412	30~1000	-4.27	-58.57	≤-24.27	PASS
			1000~26500	-4.27	-46.86	≤-24.27	PASS
		2437	30~1000	-5.12	-59.55	≤-25.12	PASS
			1000~26500	-5.12	-47.1	≤-25.12	PASS
		2462	30~1000	-3.69	-59.28	≤-23.69	PASS
			1000~26500	-3.69	-46.93	≤-23.69	PASS
11N40SISO	Ant1	2422	30~1000	-8.26	-59.8	≤-28.26	PASS
			1000~26500	-8.26	-46.48	≤-28.26	PASS
		2437	30~1000	-8.33	-59.14	≤-28.33	PASS
			1000~26500	-8.33	-45.91	≤-28.33	PASS
		2452	30~1000	-8.59	-59.84	≤-28.59	PASS
			1000~26500	-8.59	-46.92	≤-28.59	PASS



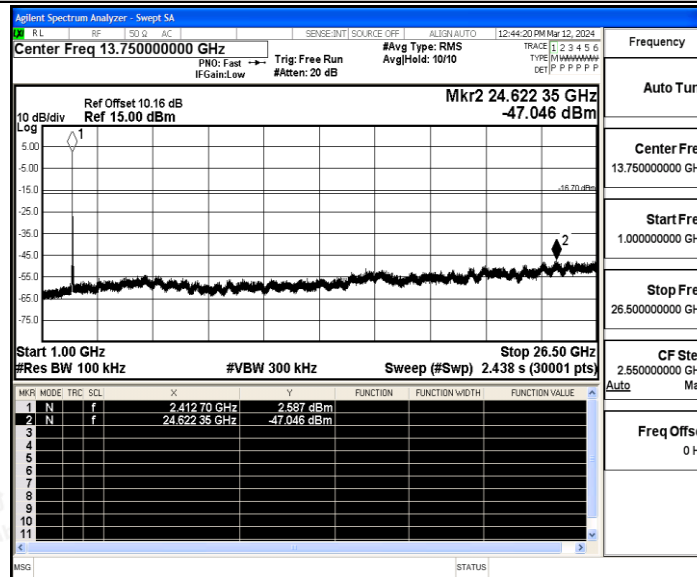


Test Graphs

11B_Ant1_2412_30~1000

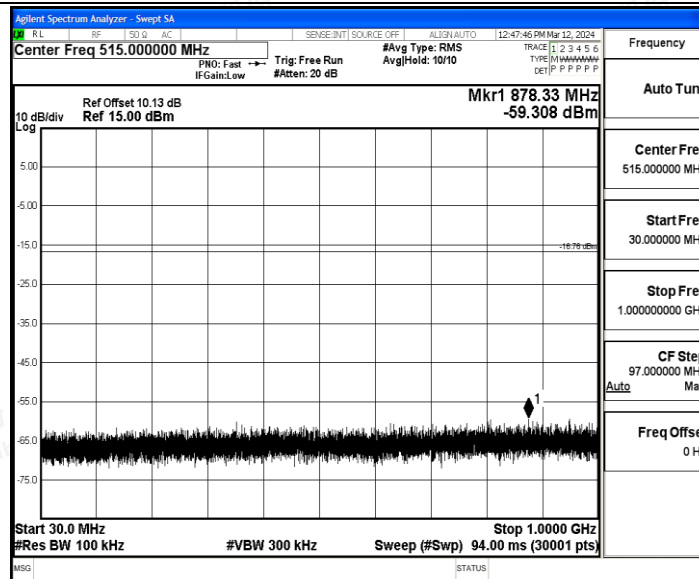


11B_Ant1_2412_1000~26500

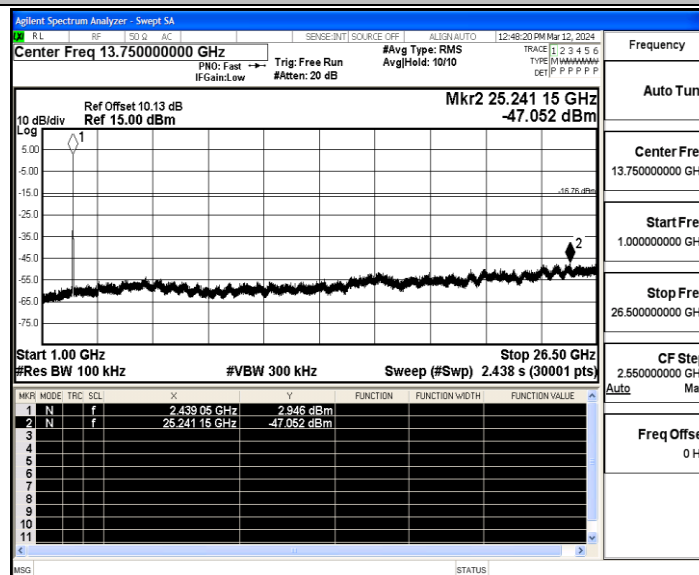


11B_Ant1_2437_30~1000





11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

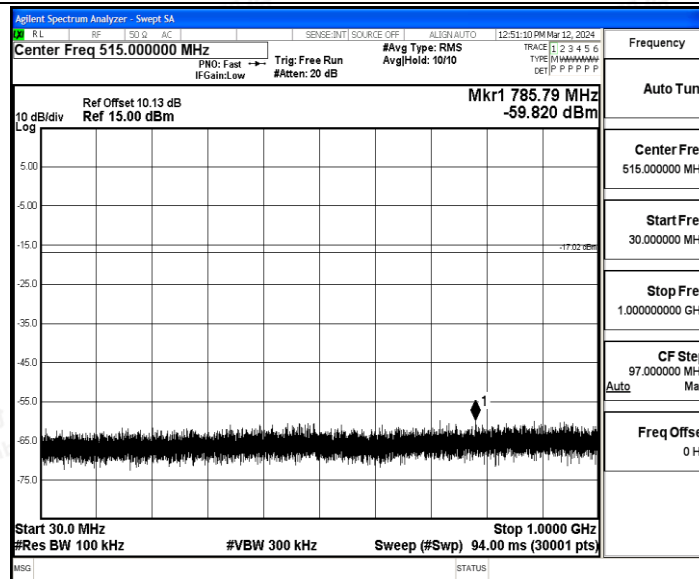


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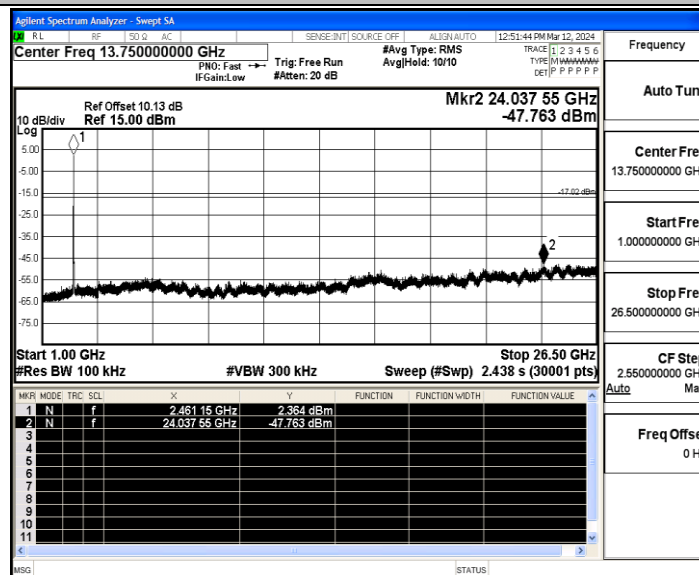
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

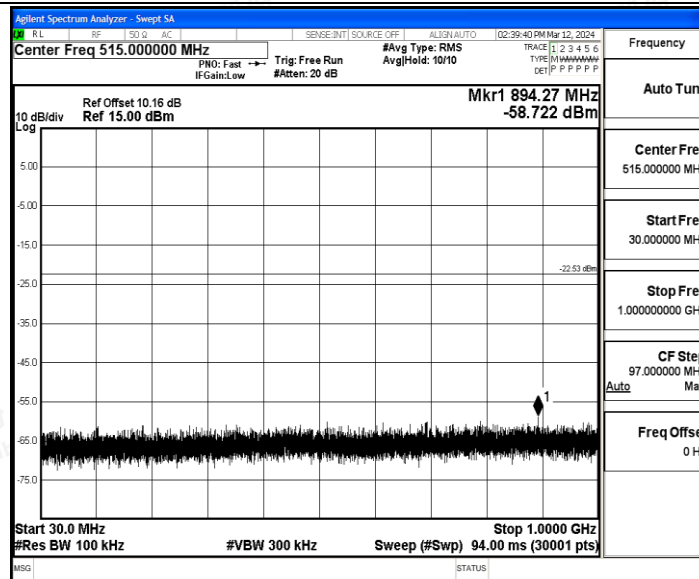


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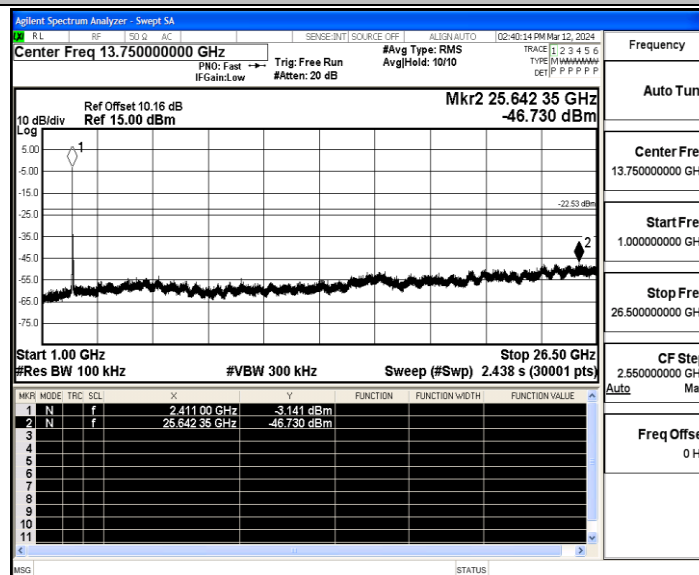
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_30~1000

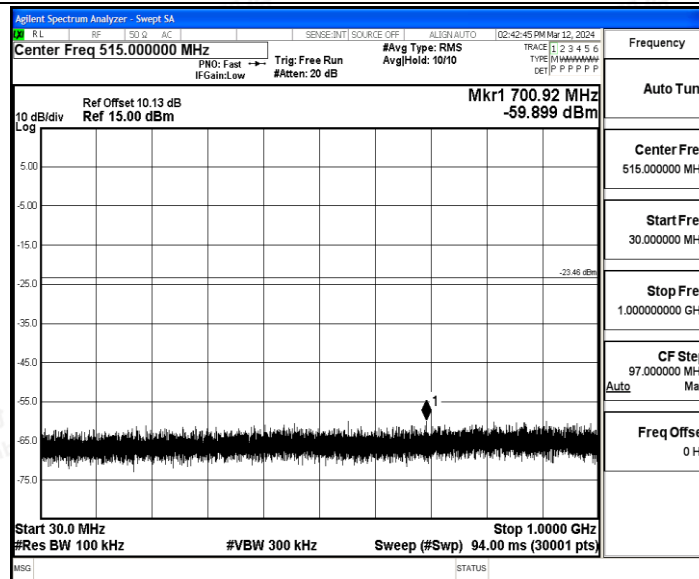


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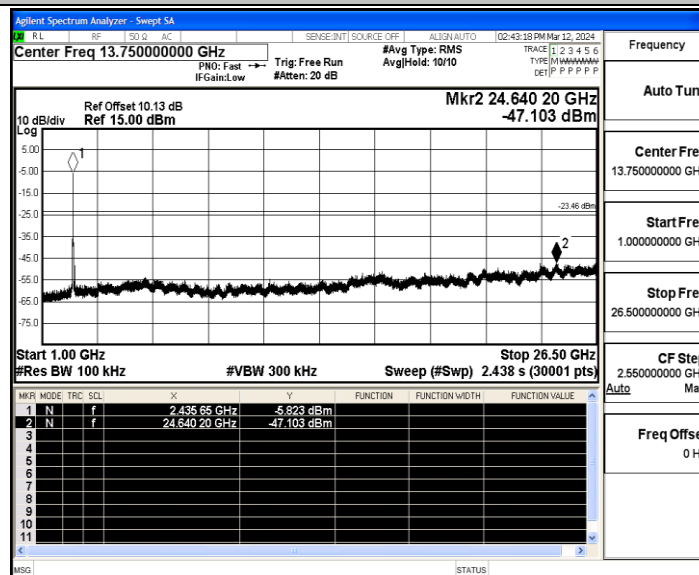
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11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

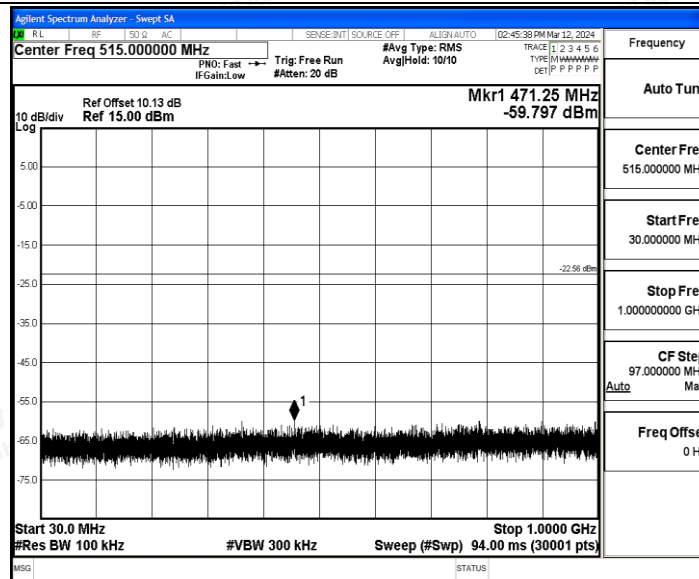


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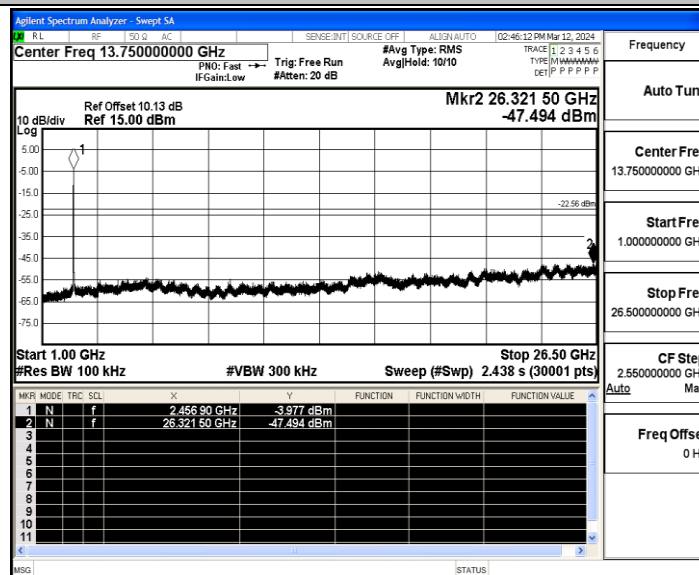
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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

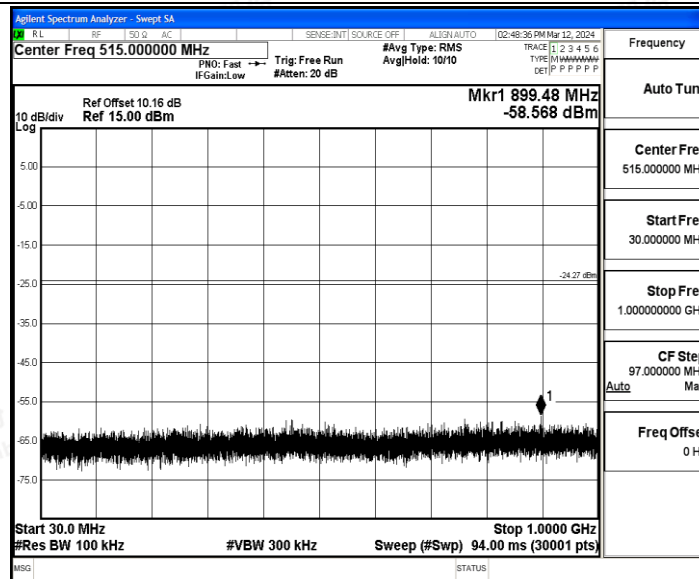


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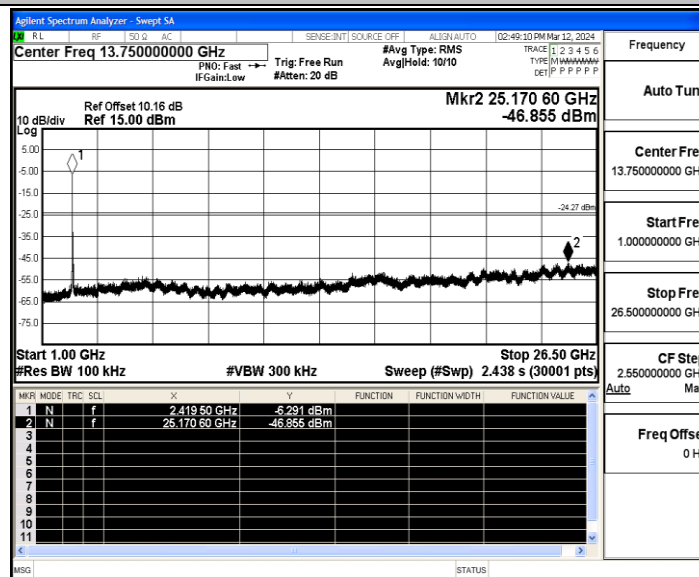
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

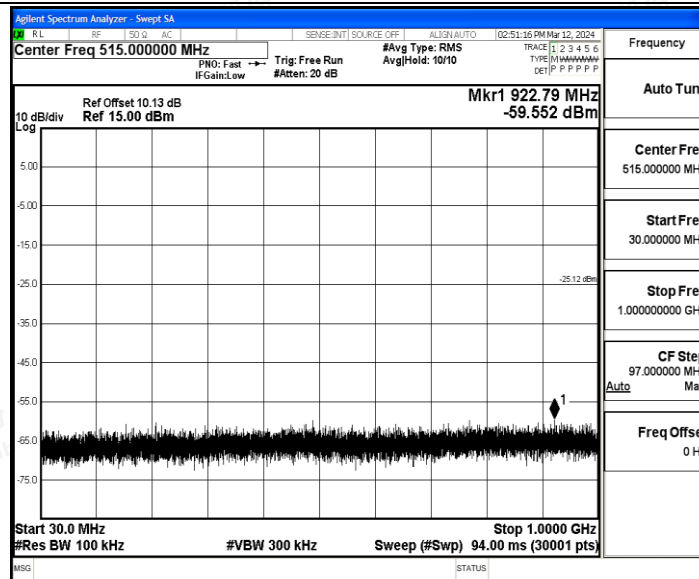


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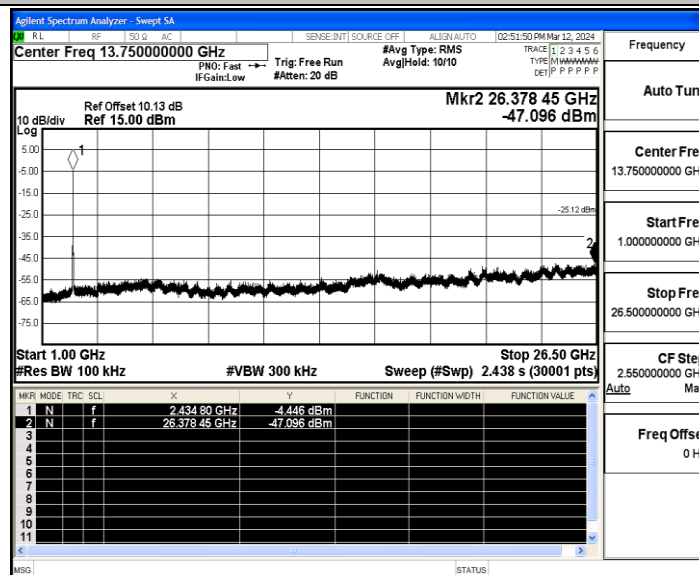
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

