



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Philips 2K Dual-Cam Video Doorbell

Test Model: DDA270X-2TXS3

Environmental Conditions

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



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A.1 DTS Bandwidth

Test Result

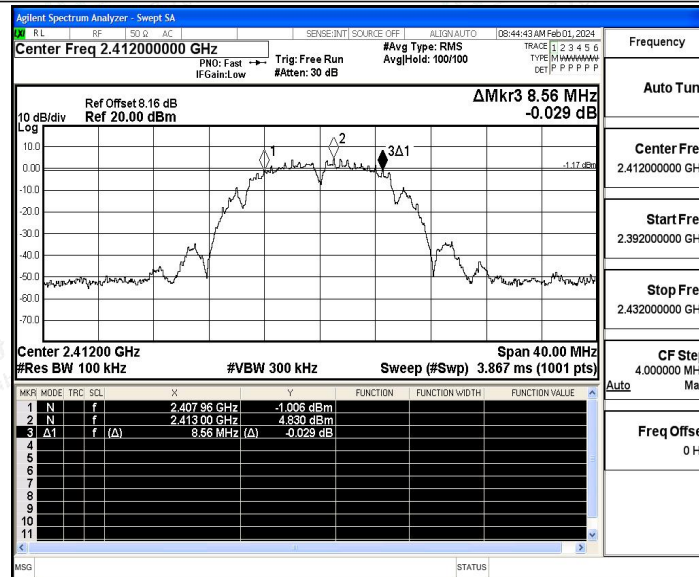
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	15.640	2404.520	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.640	2420.480	0.5	PASS
		2437	17.280	2428.360	2445.640	0.5	PASS
		2462	16.800	2453.680	2470.480	0.5	PASS
11N40SISO	Ant1	2422	36.000	2404.080	2440.080	0.5	PASS
		2437	35.600	2419.080	2454.680	0.5	PASS
		2452	35.520	2434.080	2469.600	0.5	PASS



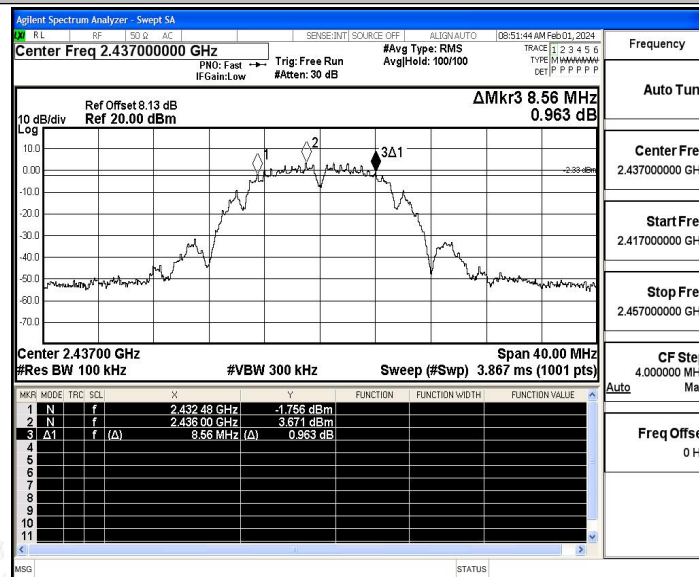


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

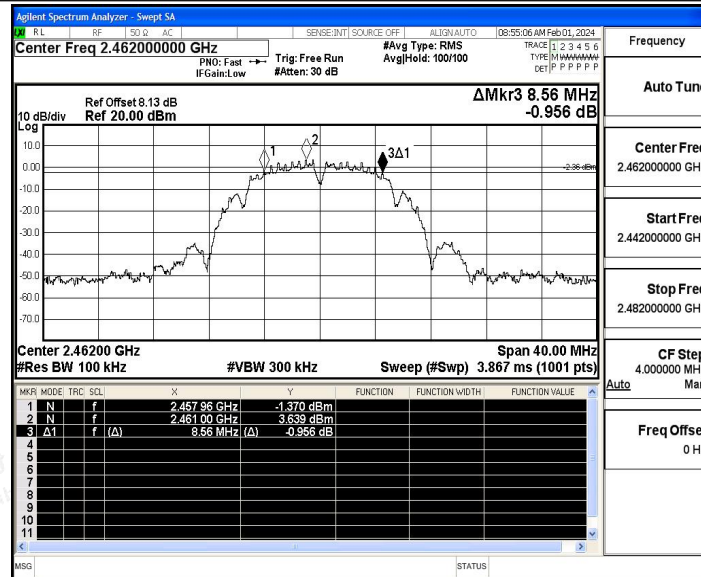


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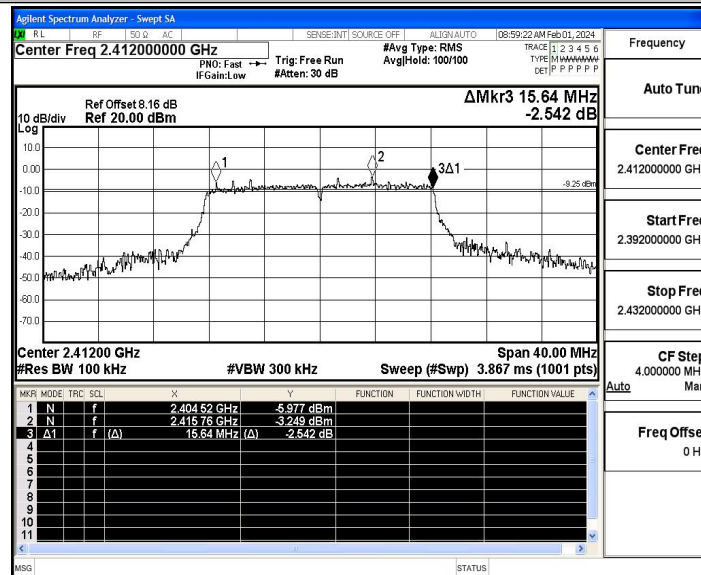
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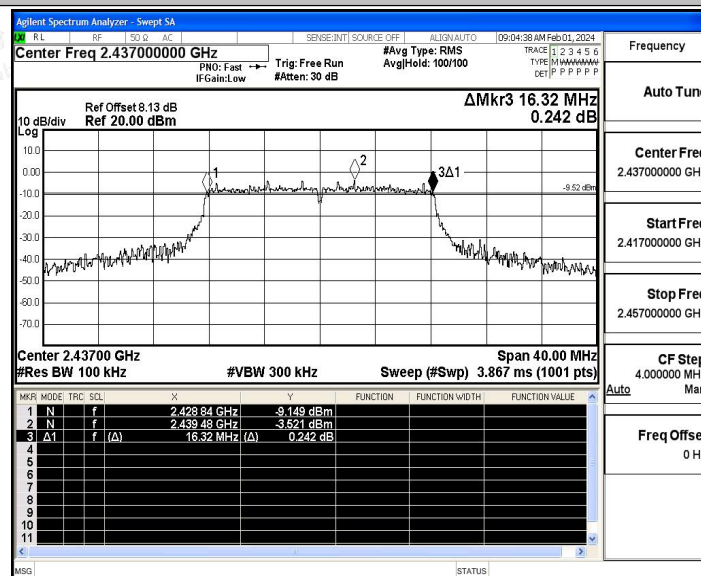
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11G_Ant1_2412



11G_Ant1_2437



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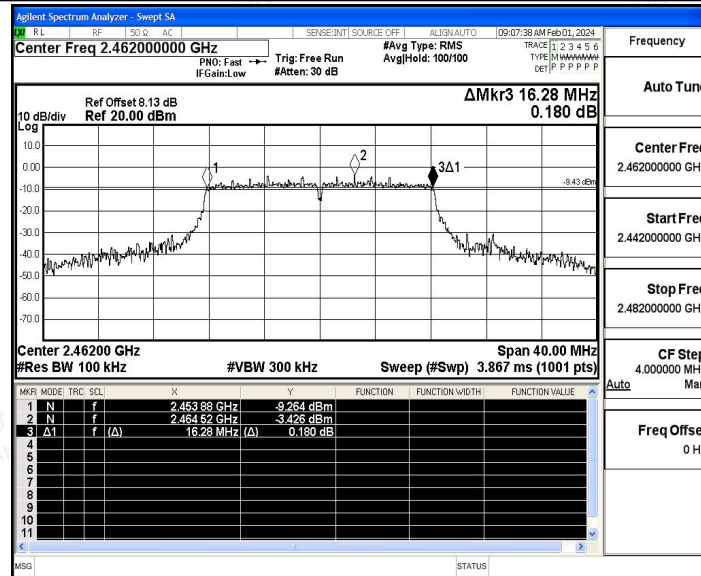
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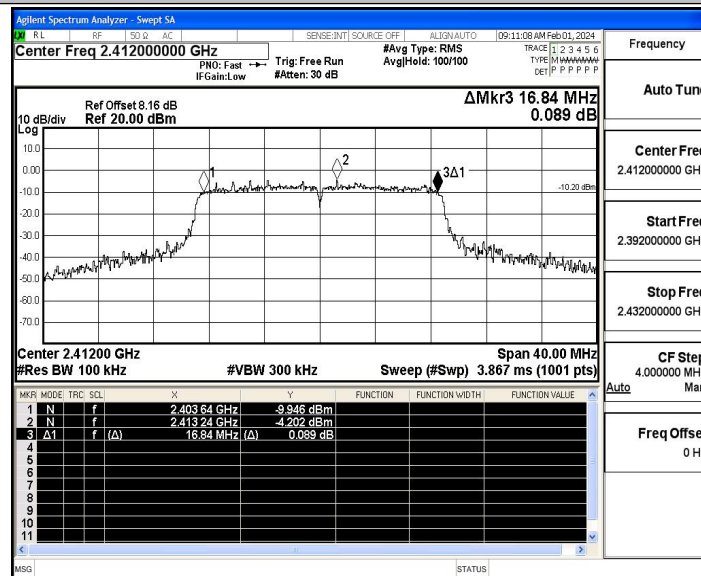
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

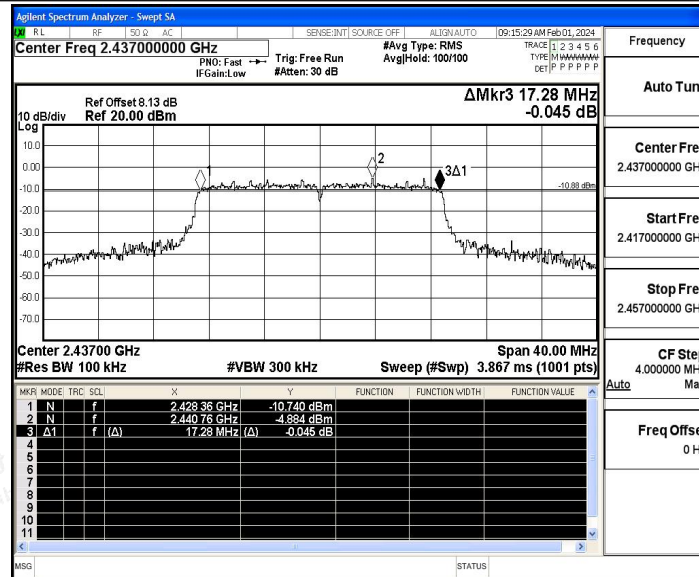


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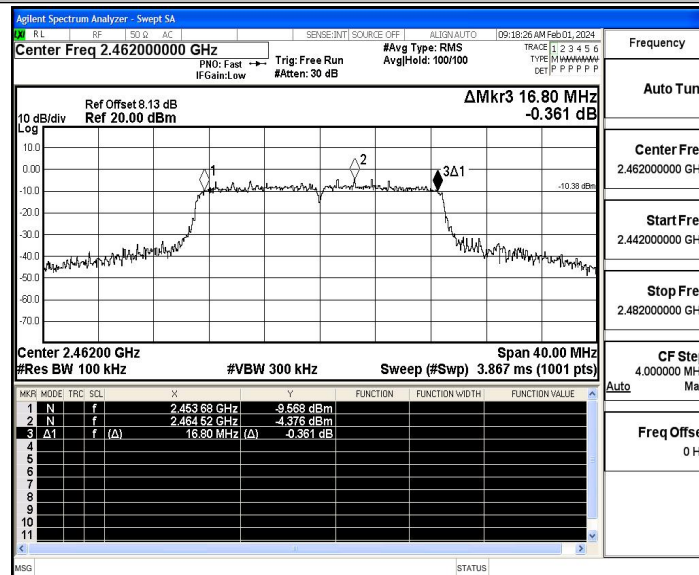
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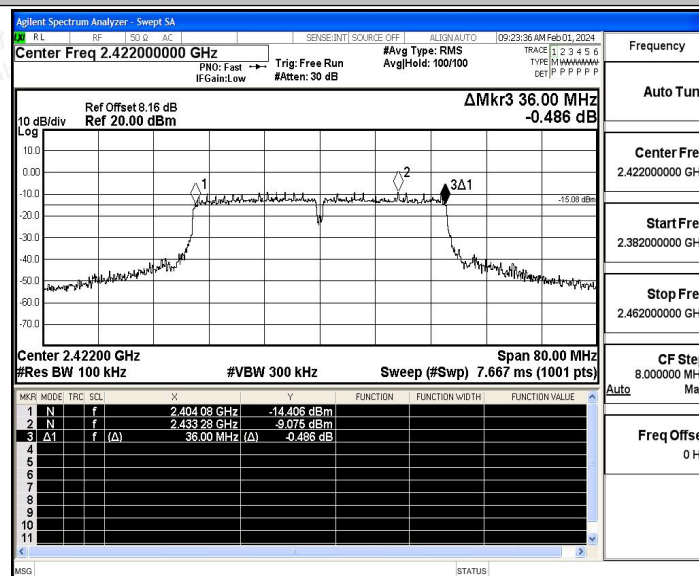
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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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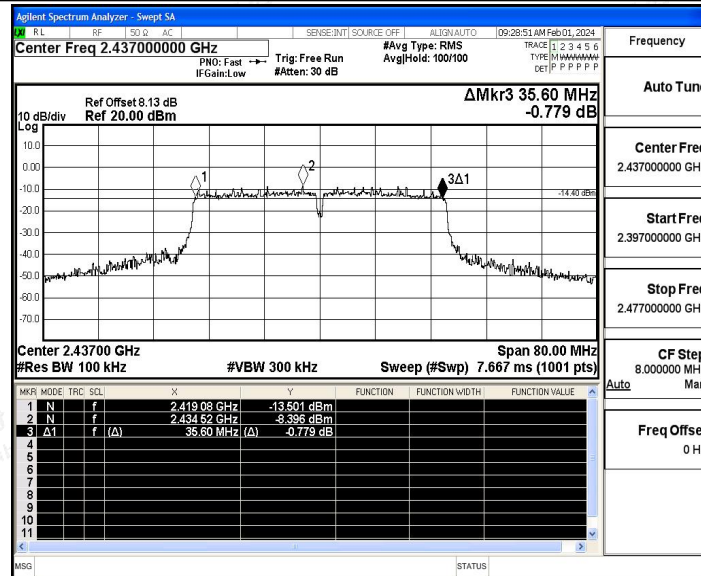
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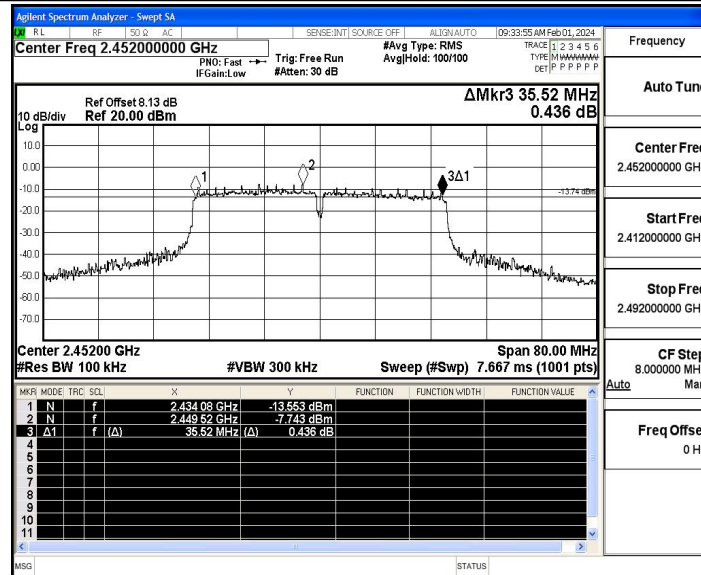
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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A.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.11	≤30.00	PASS
		2437	15.04	≤30.00	PASS
		2462	15.11	≤30.00	PASS
11G	Ant1	2412	14.00	≤30.00	PASS
		2437	14.14	≤30.00	PASS
		2462	13.97	≤30.00	PASS
11N20SISO	Ant1	2412	13.81	≤30.00	PASS
		2437	13.43	≤30.00	PASS
		2462	13.38	≤30.00	PASS
11N40SISO	Ant1	2422	12.06	≤30.00	PASS
		2437	12.42	≤30.00	PASS
		2452	12.62	≤30.00	PASS





A.3 Maximum power spectral density

Test Result

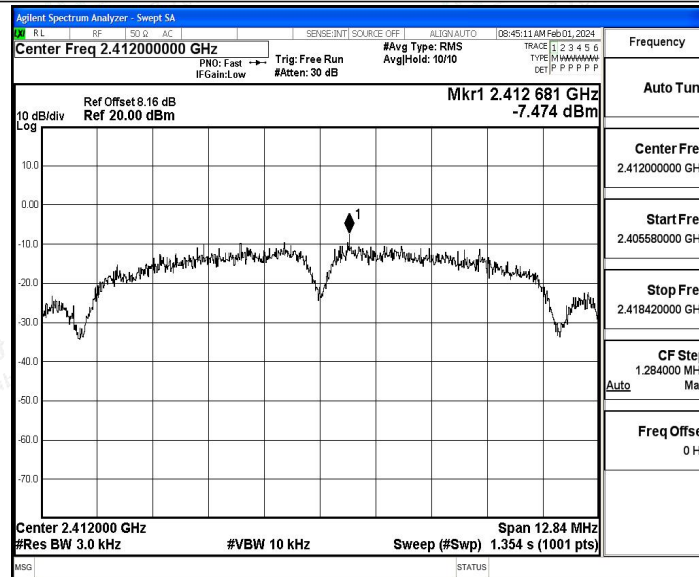
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.47	≤8.00	PASS
		2437	-7.14	≤8.00	PASS
		2462	-8.23	≤8.00	PASS
11G	Ant1	2412	-18.18	≤8.00	PASS
		2437	-18.00	≤8.00	PASS
		2462	-18.32	≤8.00	PASS
11N20SISO	Ant1	2412	-17.24	≤8.00	PASS
		2437	-17.99	≤8.00	PASS
		2462	-18.51	≤8.00	PASS
11N40SISO	Ant1	2422	-23.66	≤8.00	PASS
		2437	-22.96	≤8.00	PASS
		2452	-21.35	≤8.00	PASS



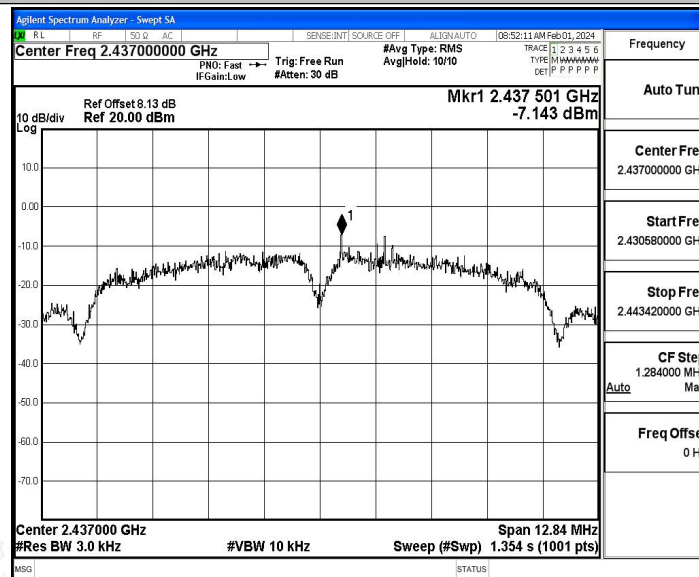


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

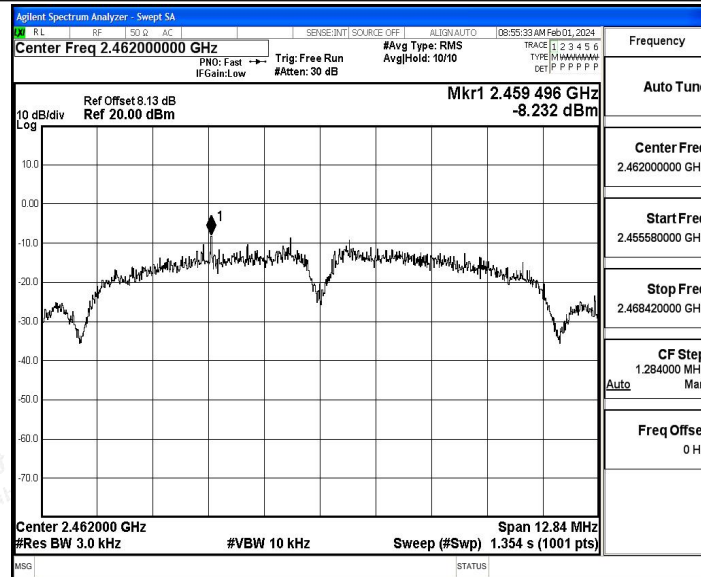


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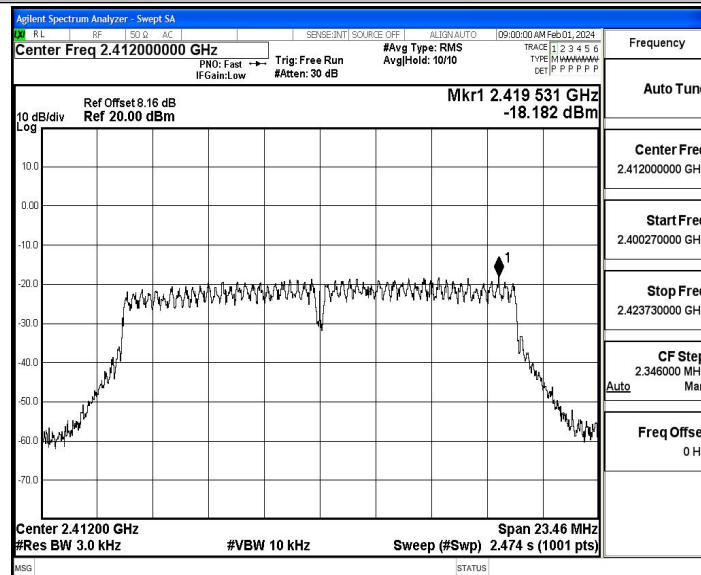
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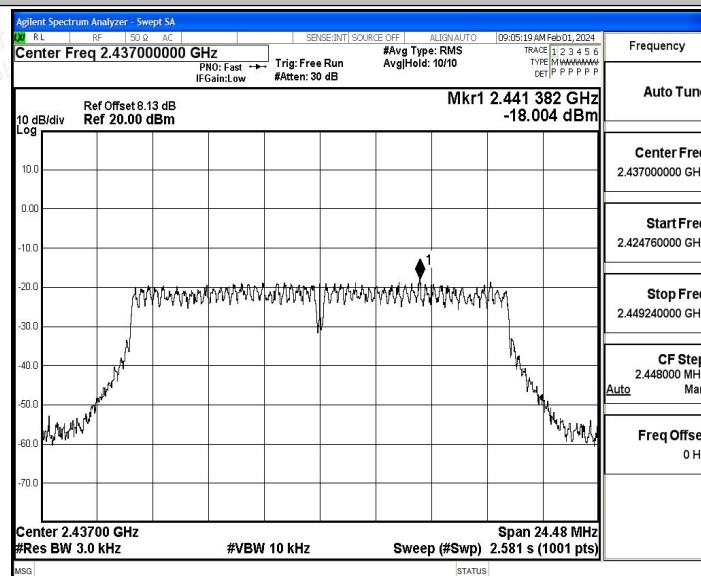
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11G_Ant1_2412



11G_Ant1_2437



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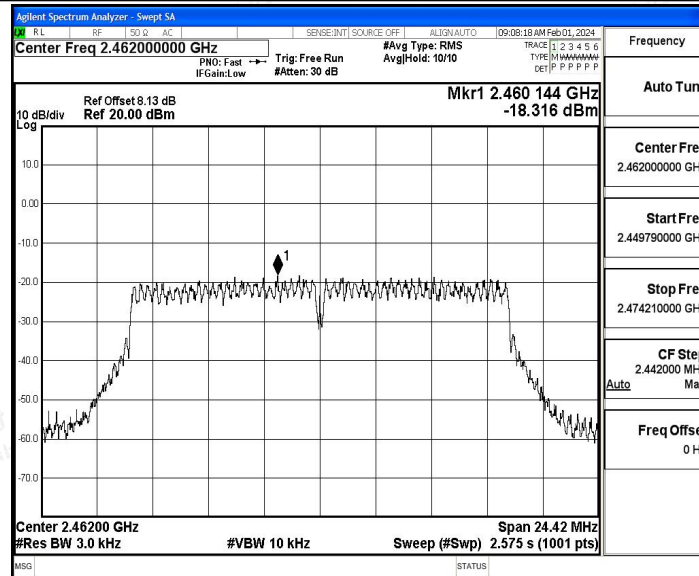
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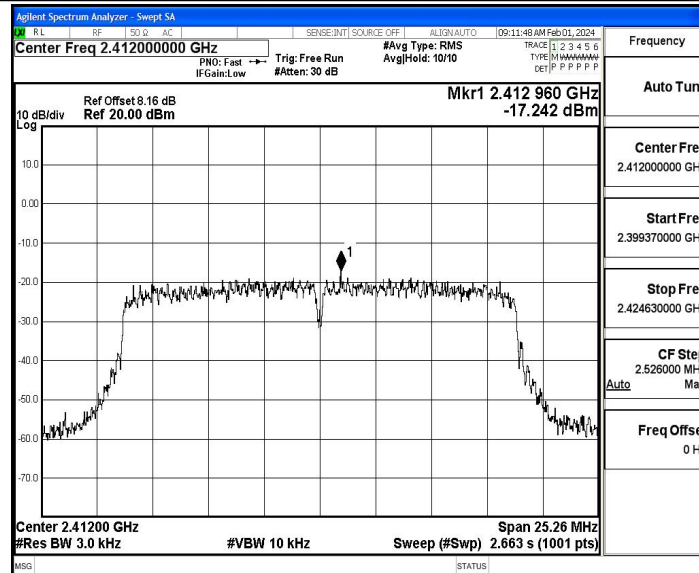
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

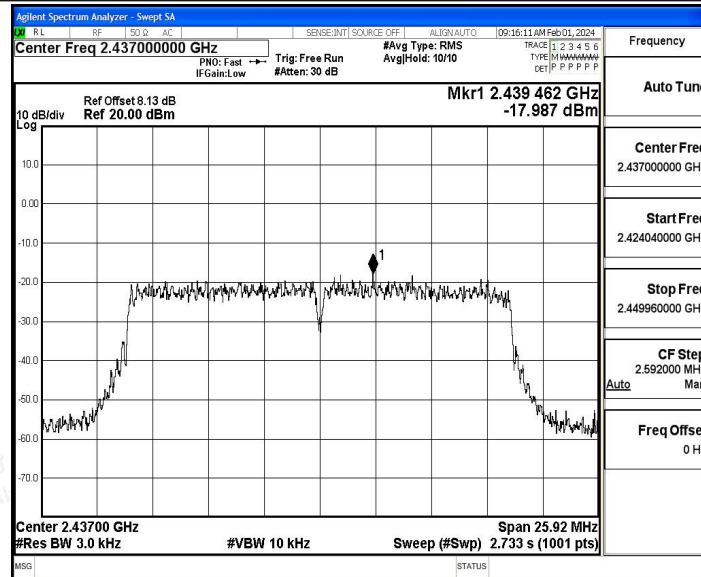


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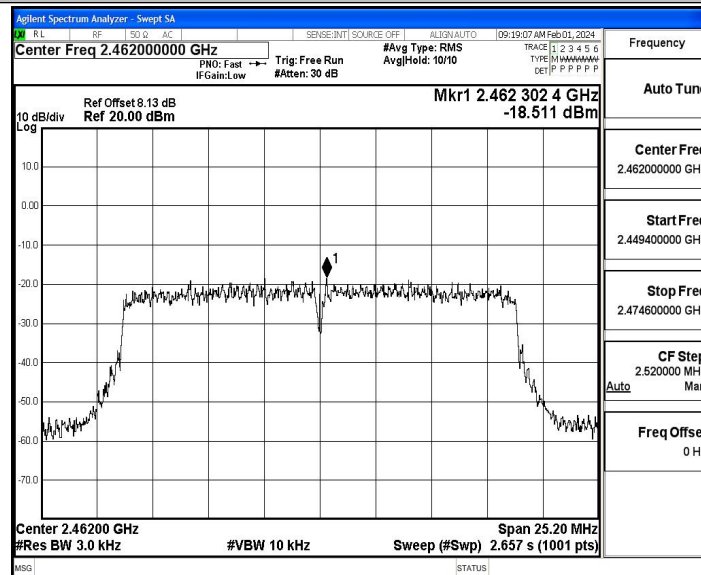
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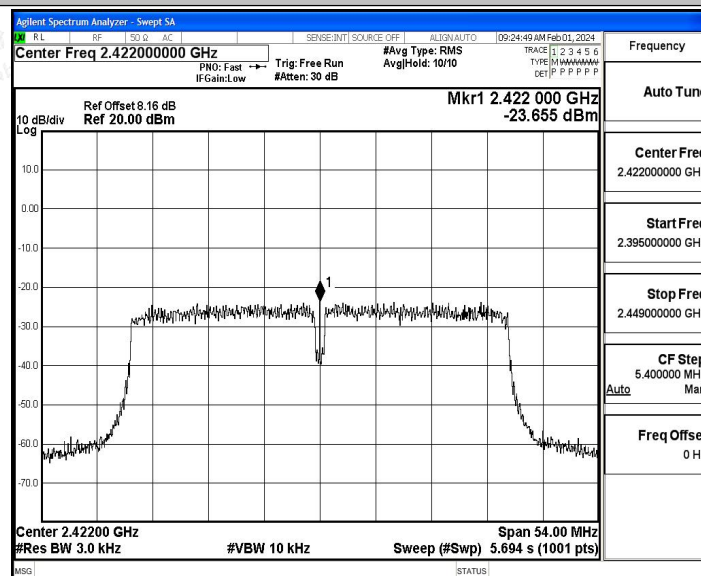
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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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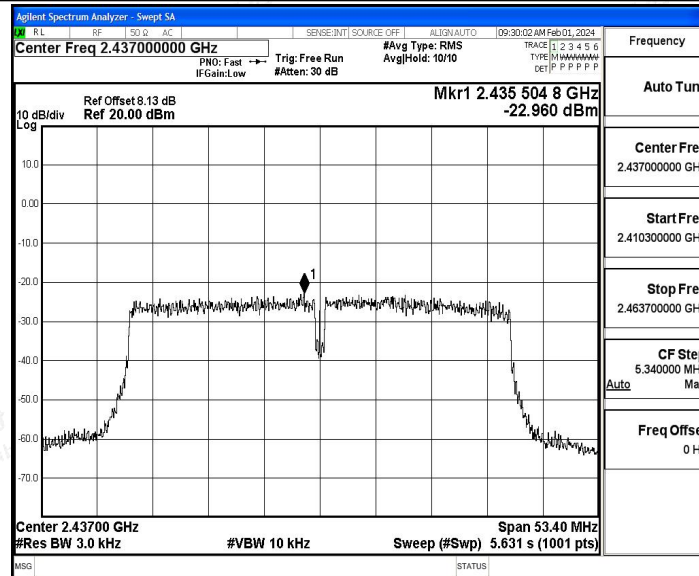
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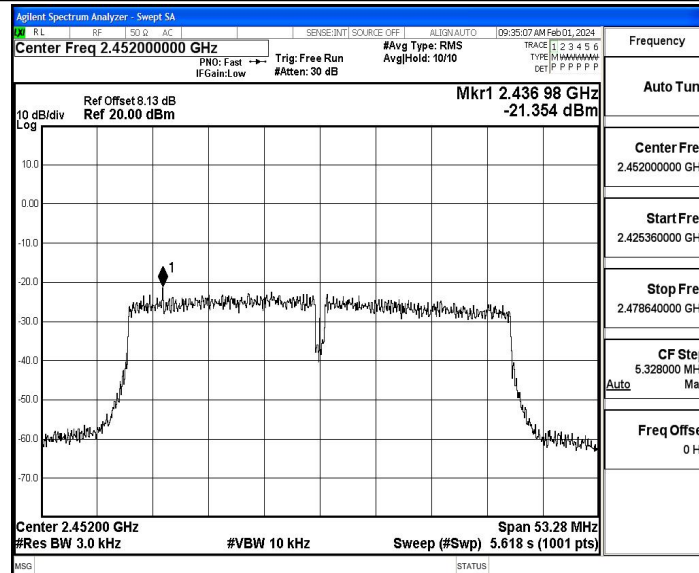
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.46	-47.61	≤ -15.54	PASS
		High	2462	3.63	-50.11	≤ -16.37	PASS
11G	Ant1	Low	2412	-3.13	-37.14	≤ -23.13	PASS
		High	2462	-3.61	-46.55	≤ -23.61	PASS
11N20SISO	Ant1	Low	2412	-4.37	-34.7	≤ -24.37	PASS
		High	2462	-5.12	-45.38	≤ -25.12	PASS
11N40SISO	Ant1	Low	2422	-8.98	-39.81	≤ -28.98	PASS
		High	2452	-8.37	-47.22	≤ -28.37	PASS



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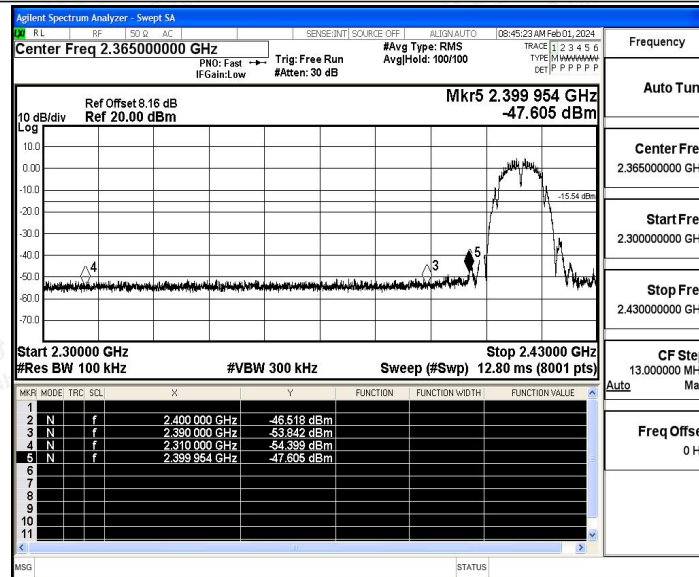
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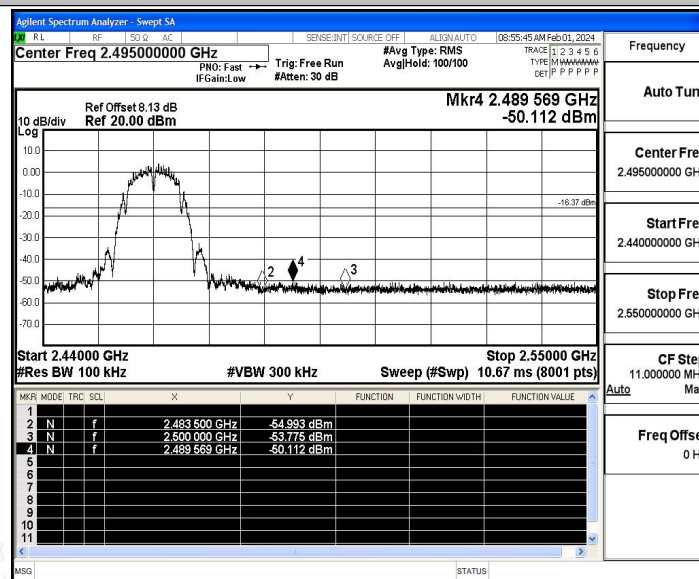


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

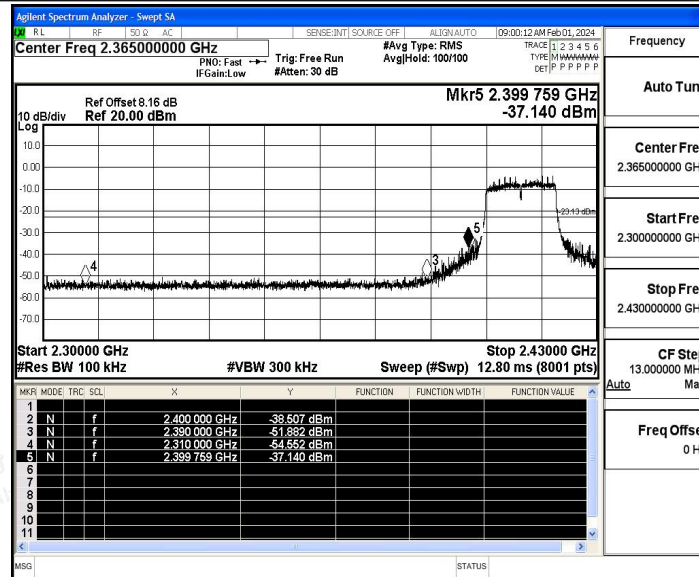


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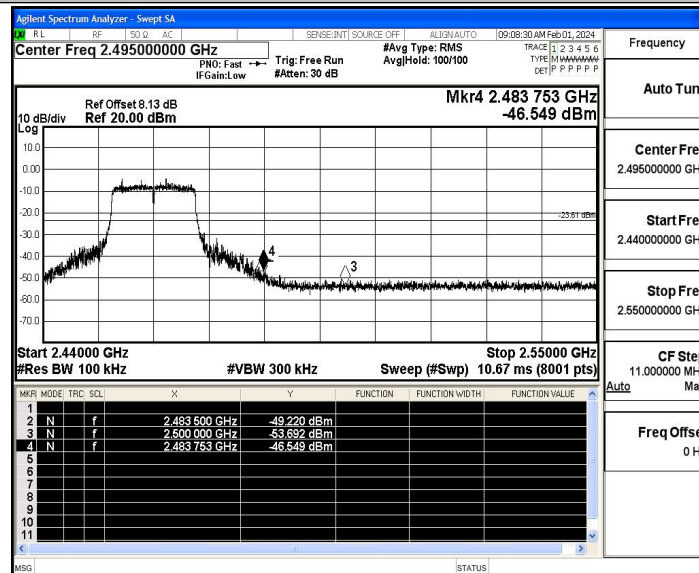
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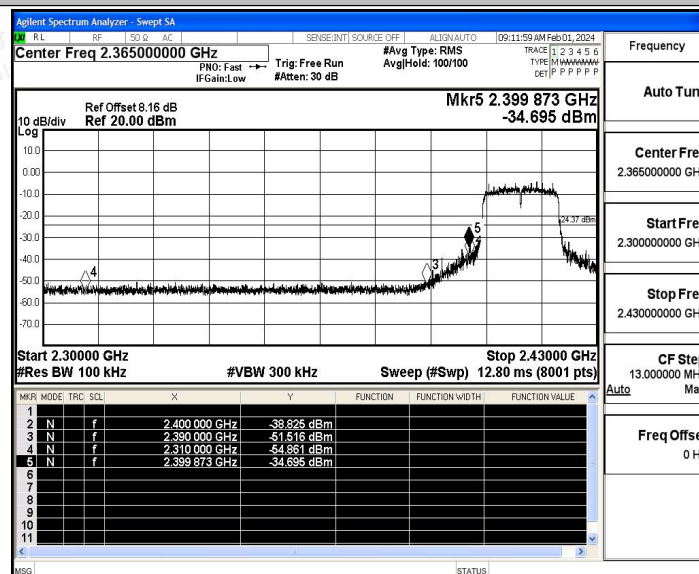
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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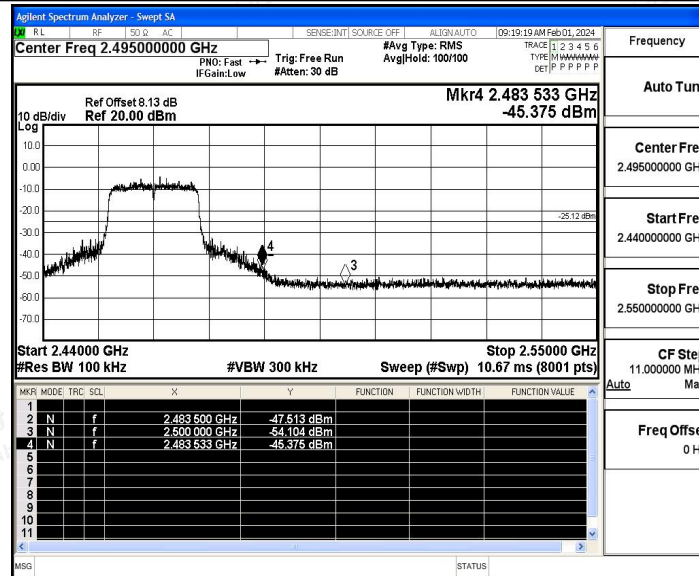
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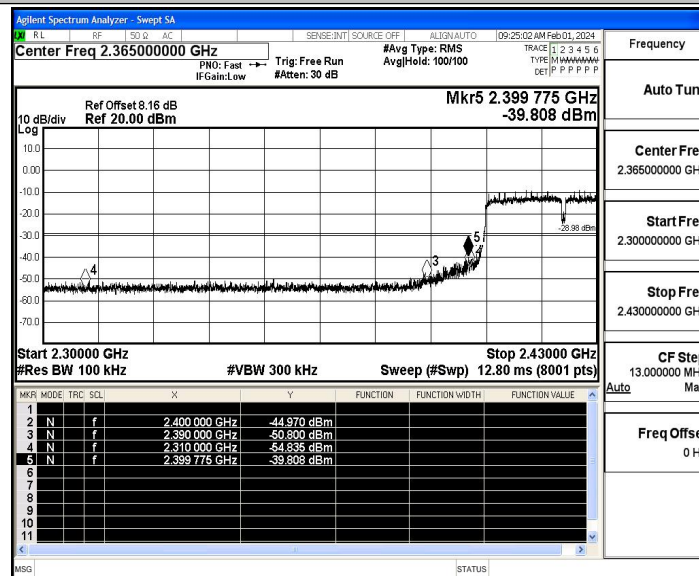
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

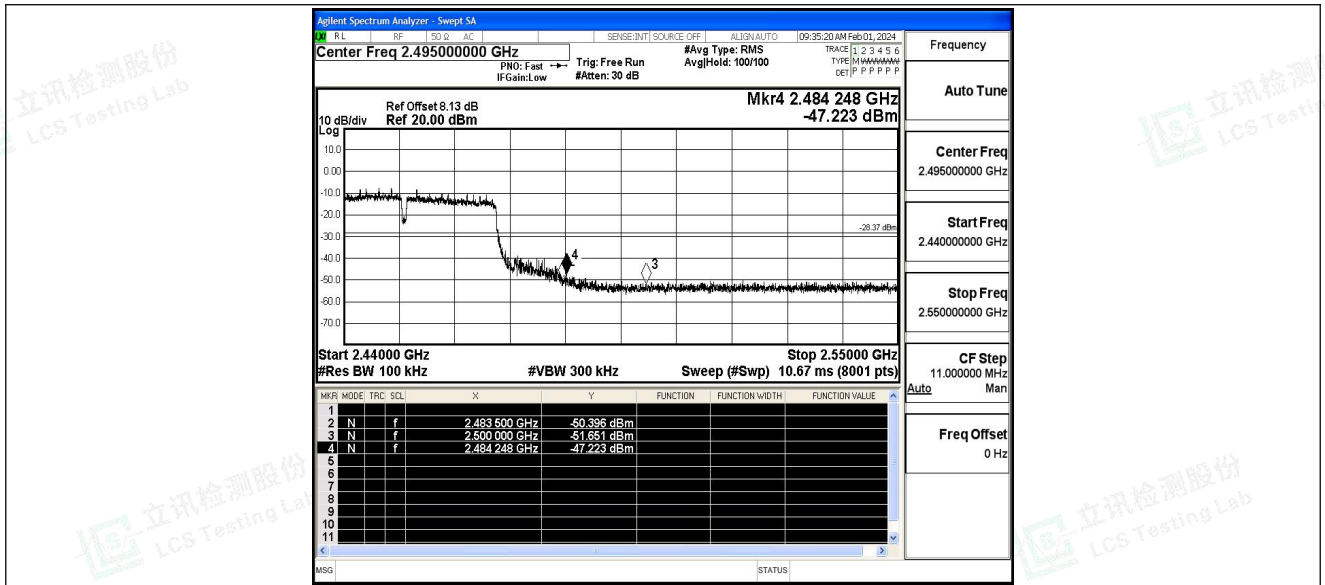


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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	4.46	-61.19	≤ -15.54	PASS
			1000~26500	4.46	-49.03	≤ -15.54	PASS
		2437	30~1000	3.47	-61.48	≤ -16.53	PASS
			1000~26500	3.47	-48.51	≤ -16.53	PASS
		2462	30~1000	3.63	-61.82	≤ -16.37	PASS
			1000~26500	3.63	-48.85	≤ -16.37	PASS
11G	Ant1	2412	30~1000	-3.13	-61.11	≤ -23.13	PASS
			1000~26500	-3.13	-48.53	≤ -23.13	PASS
		2437	30~1000	-3.44	-61.27	≤ -23.44	PASS
			1000~26500	-3.44	-49.51	≤ -23.44	PASS
		2462	30~1000	-3.61	-61.97	≤ -23.61	PASS
			1000~26500	-3.61	-48.61	≤ -23.61	PASS
11N20SISO	Ant1	2412	30~1000	-4.37	-61.92	≤ -24.37	PASS
			1000~26500	-4.37	-49.45	≤ -24.37	PASS
		2437	30~1000	-4.37	-61.41	≤ -24.37	PASS
			1000~26500	-4.37	-49	≤ -24.37	PASS
		2462	30~1000	-5.12	-61.4	≤ -25.12	PASS
			1000~26500	-5.12	-49.23	≤ -25.12	PASS
11N40SISO	Ant1	2422	30~1000	-8.98	-61.28	≤ -28.98	PASS
			1000~26500	-8.98	-49.29	≤ -28.98	PASS
		2437	30~1000	-8.25	-61.25	≤ -28.25	PASS
			1000~26500	-8.25	-48.89	≤ -28.25	PASS
		2452	30~1000	-8.37	-61.72	≤ -28.37	PASS
			1000~26500	-8.37	-49.16	≤ -28.37	PASS



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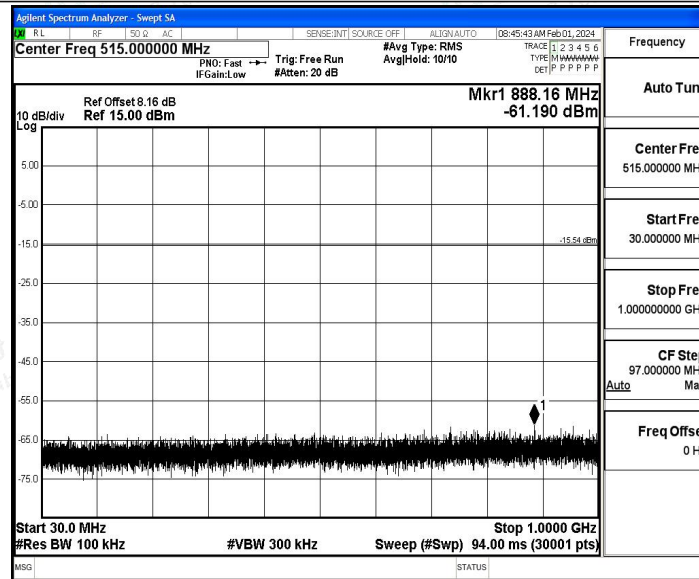
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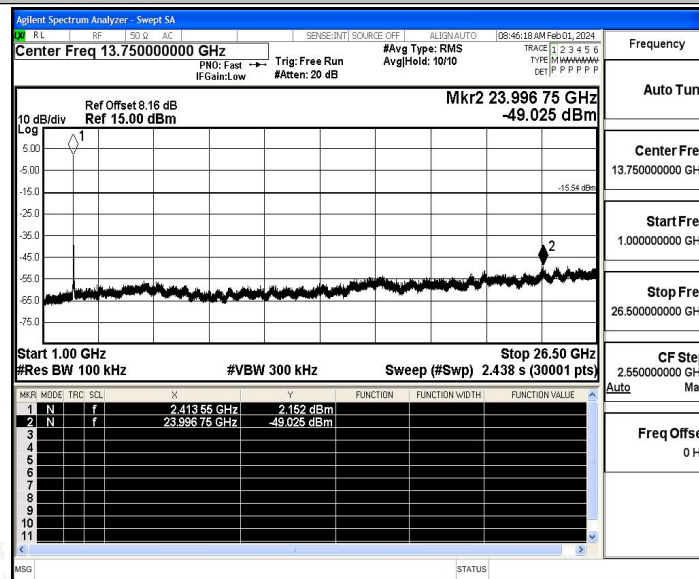


Test Graphs

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_30~1000



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