



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Handheld Controller

Test Model: iHand55

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu <i>Nick Peng</i>
Supervised by:	Ling Zhu <i>Ling. Zhu</i>





C.1 DTS Bandwidth

Test Result

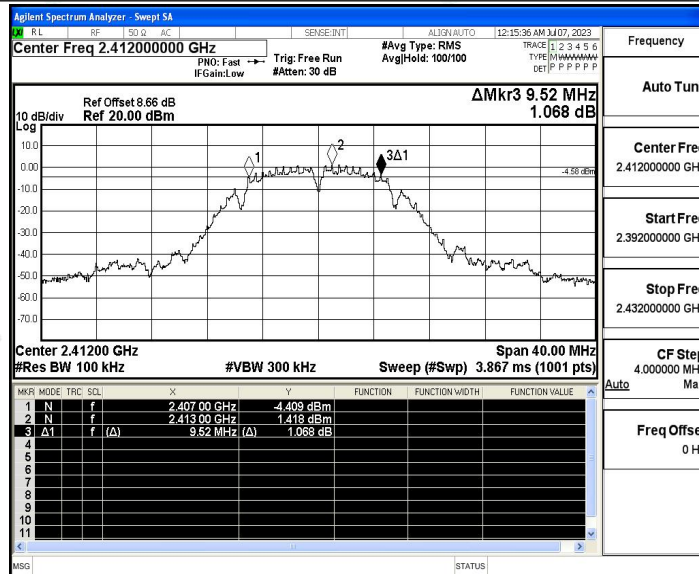
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.000	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.560	2457.440	2467.000	0.5	PASS
11G	Ant1	2412	15.000	2404.440	2419.440	0.5	PASS
		2437	14.120	2430.360	2444.480	0.5	PASS
		2462	15.400	2454.120	2469.520	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.480	2420.760	0.5	PASS
		2437	15.040	2429.480	2444.520	0.5	PASS
		2462	13.160	2455.360	2468.520	0.5	PASS
11N40SISO	Ant1	2422	34.160	2405.360	2439.520	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS



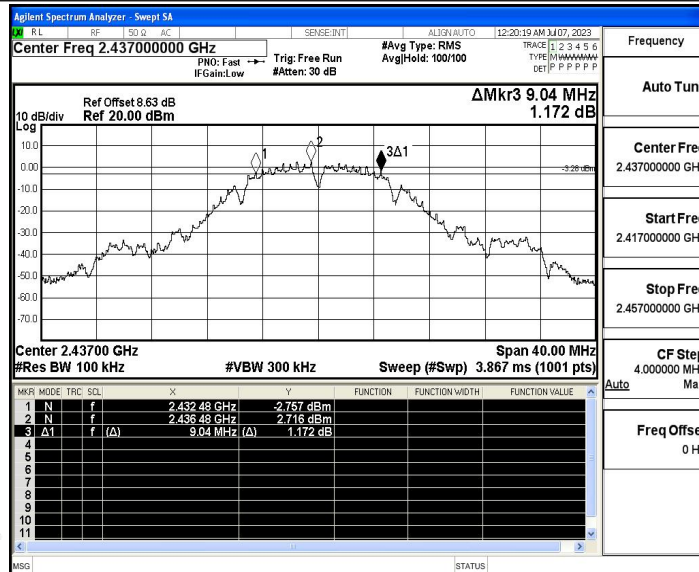


Test Graphs

11B_Ant1_2412

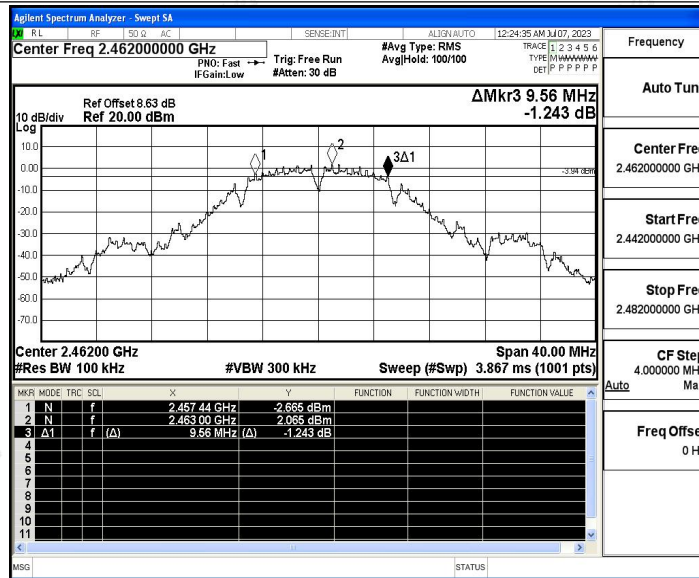


11B_Ant1_2437

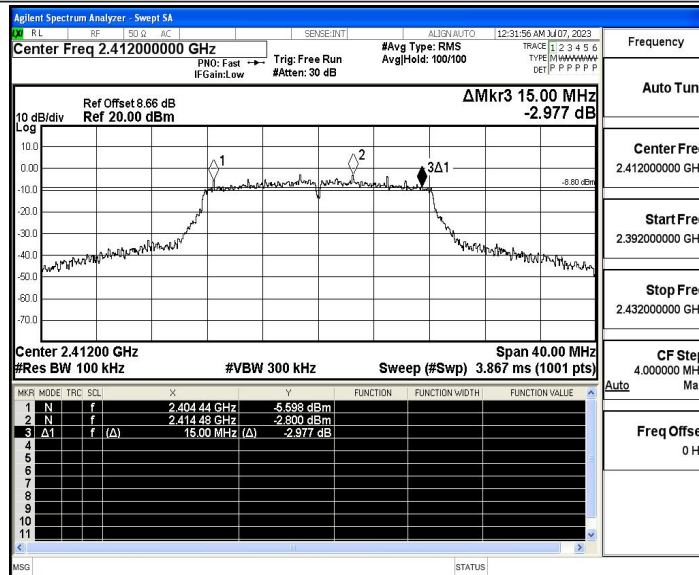


11B_Ant1_2462



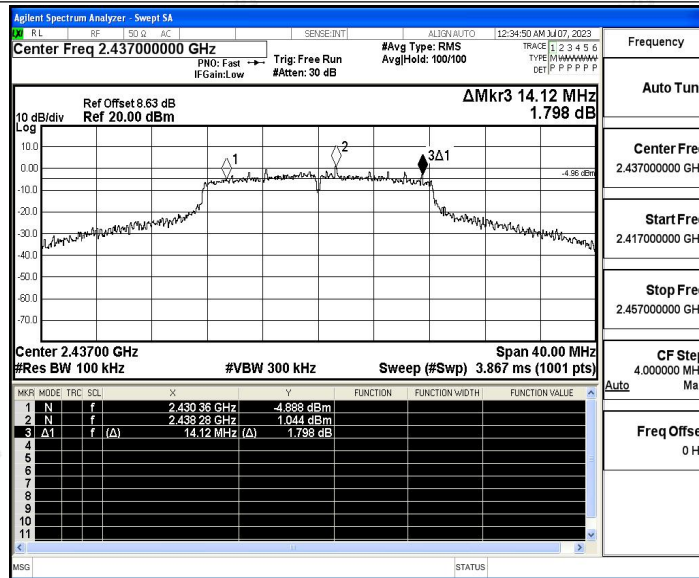


11G_Ant1_2412

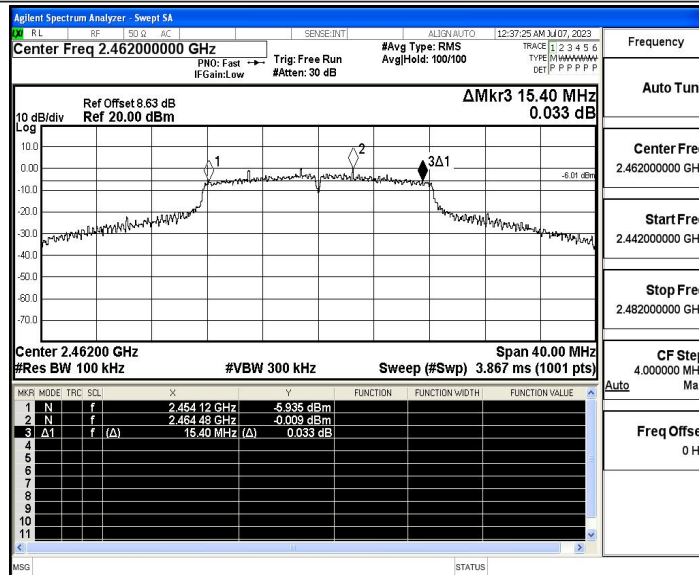


11G_Ant1_2437



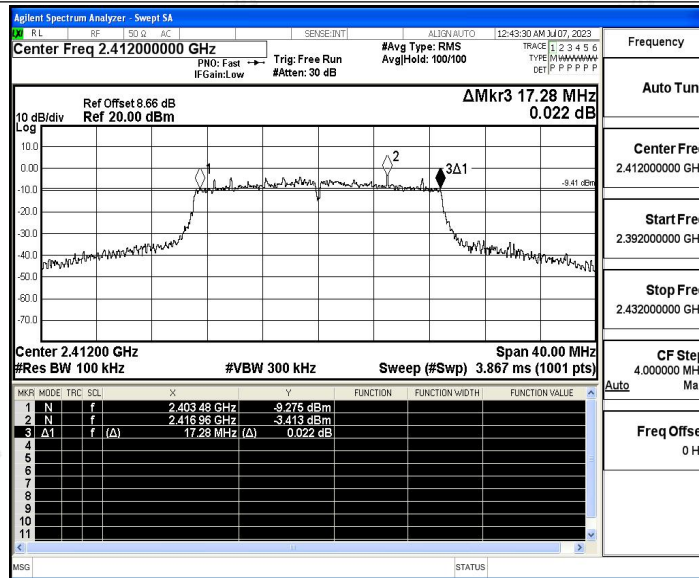


11G_Ant1_2462

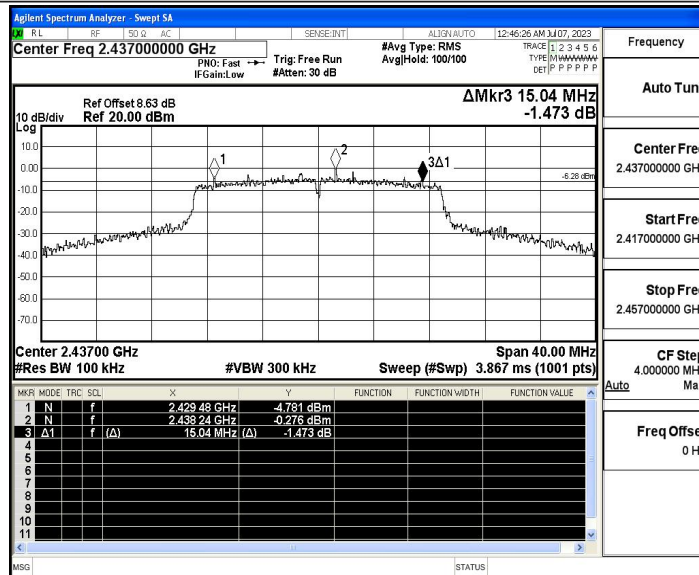


11N20SISO_Ant1_2412



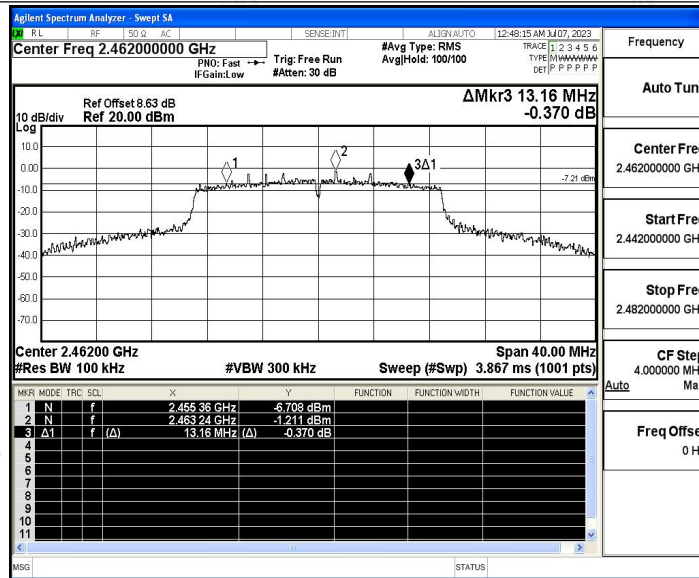


11N20SISO_Ant1_2437

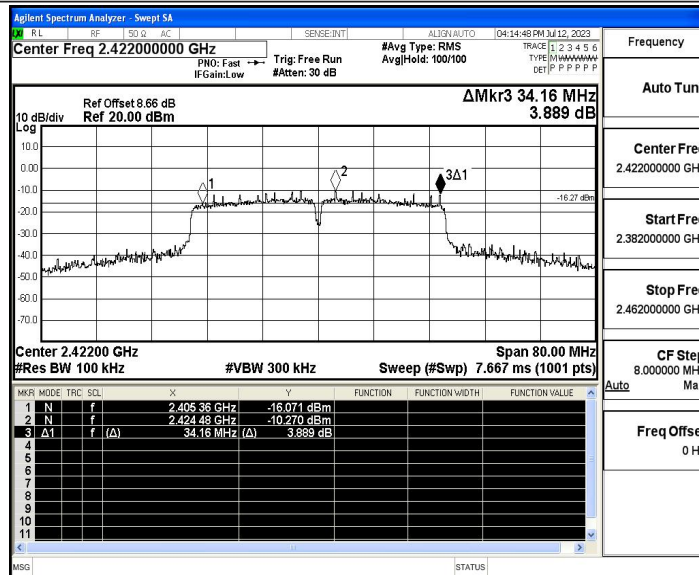


11N20SISO_Ant1_2462



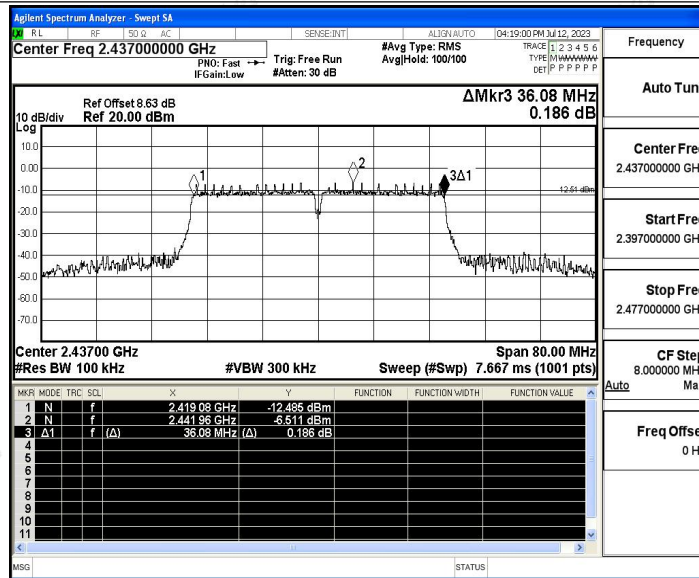


11N40SISO_Ant1_2422

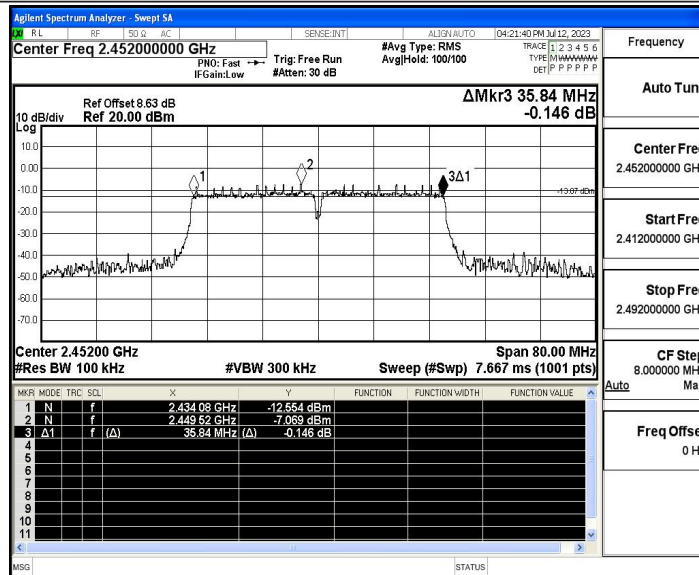


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452



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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	---	13.21	≤30.00	13.21	≤36.00	PASS
		2437	---	14.47	≤30.00	14.47	≤36.00	PASS
		2462	---	13.98	≤30.00	13.98	≤36.00	PASS
11G	Ant1	2412	---	14.53	≤30.00	14.53	≤36.00	PASS
		2437	---	14.58	≤30.00	14.58	≤36.00	PASS
		2462	---	15.20	≤30.00	15.20	≤36.00	PASS
11N20SISO	Ant1	2412	---	14.49	≤30.00	14.49	≤36.00	PASS
		2437	---	15.82	≤30.00	15.82	≤36.00	PASS
		2462	---	15.30	≤30.00	15.30	≤36.00	PASS
11N40SISO	Ant1	2422	---	13.84	≤30.00	13.84	≤36.00	PASS
		2437	---	14.10	≤30.00	14.10	≤36.00	PASS
		2452	---	13.30	≤30.00	13.30	≤36.00	PASS





C.3 Maximum power spectral density

Test Result

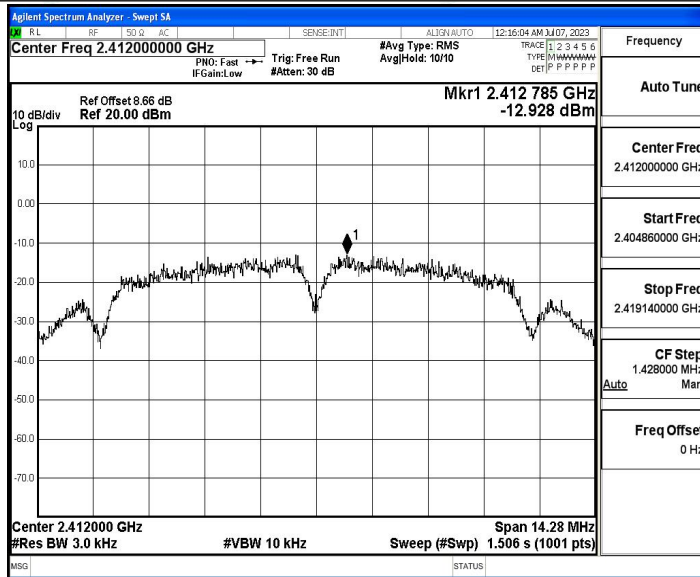
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Gain [dBi]	EIRP [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.93	≤8.00	1.66	-11.27	---	PASS
		2437	-11	≤8.00	1.66	-9.34	---	PASS
		2462	-10.72	≤8.00	1.66	-9.06	---	PASS
11G	Ant1	2412	-16.82	≤8.00	1.66	-15.16	---	PASS
		2437	-16.66	≤8.00	1.66	-15.00	---	PASS
		2462	-14.16	≤8.00	1.66	-12.50	---	PASS
11N20SISO	Ant1	2412	-16.39	≤8.00	1.66	-14.73	---	PASS
		2437	-15.04	≤8.00	1.66	-13.38	---	PASS
		2462	-14.49	≤8.00	1.66	-12.83	---	PASS
11N40SISO	Ant1	2422	-20.29	≤8.00	1.66	-18.63	---	PASS
		2437	-20.64	≤8.00	1.66	-18.98	---	PASS
		2452	-20.3	≤8.00	1.66	-18.64	---	PASS



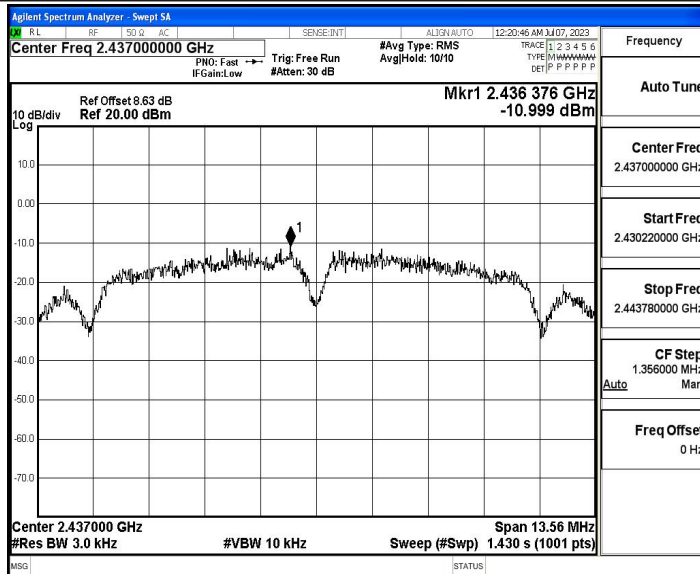


Test Graphs

11B_Ant1_2412

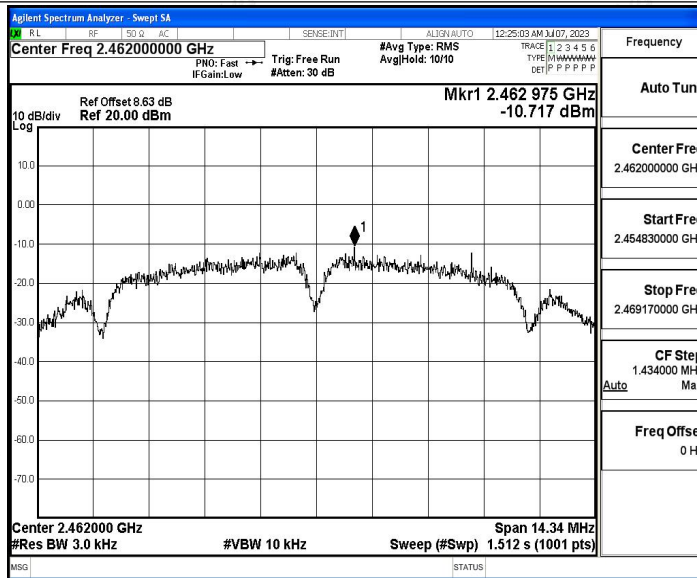


11B_Ant1_2437

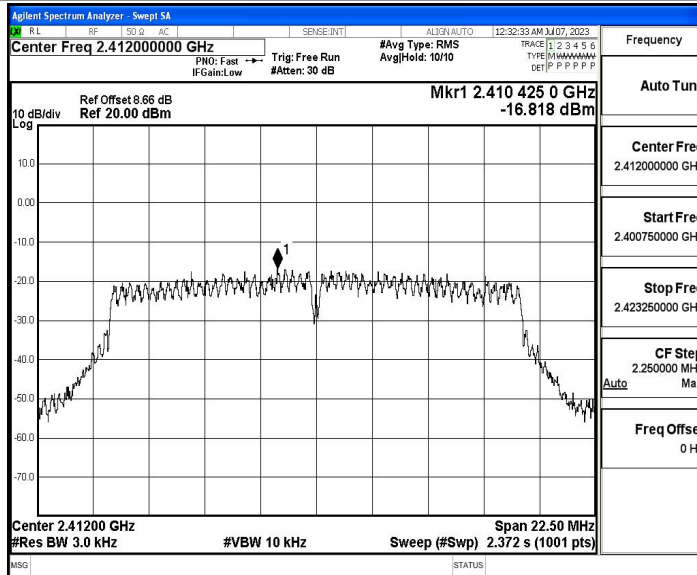


11B_Ant1_2462



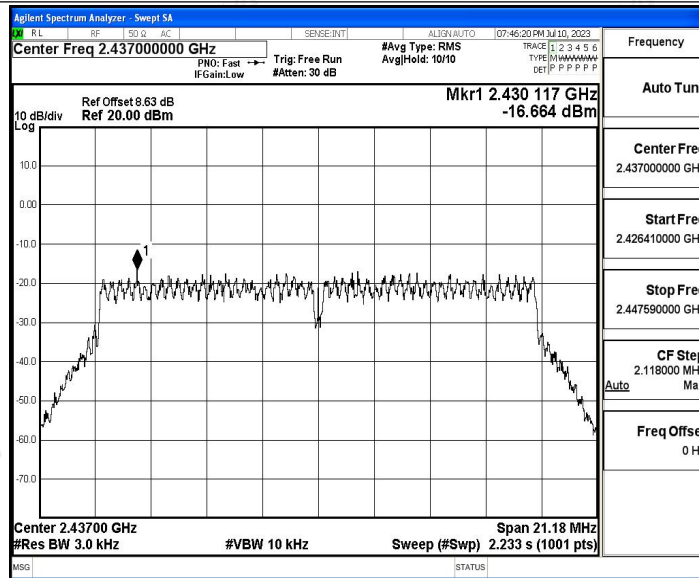


11G_Ant1_2412

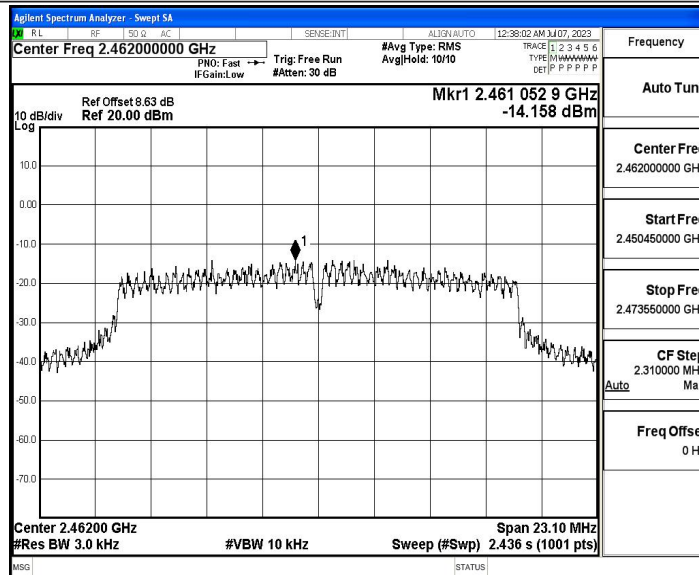


11G_Ant1_2437



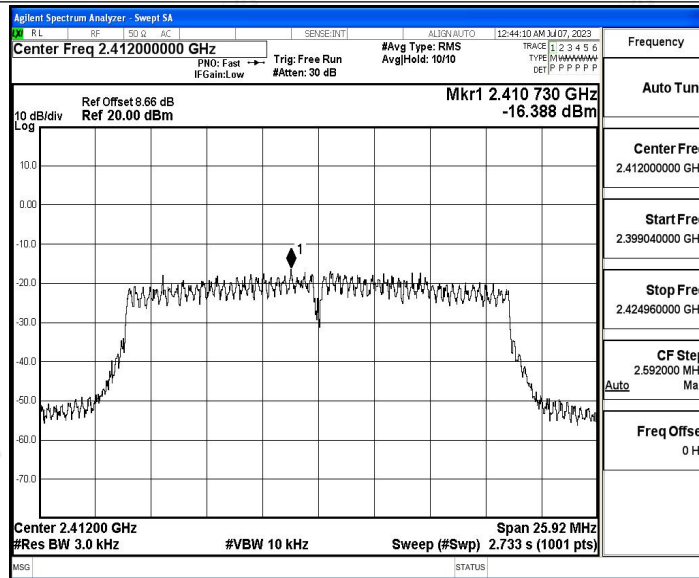


11G_Ant1_2462

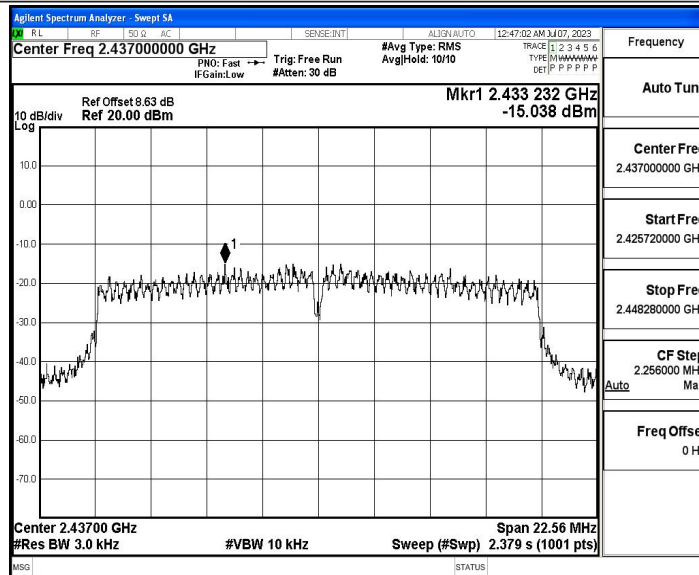


11N20SISO_Ant1_2412



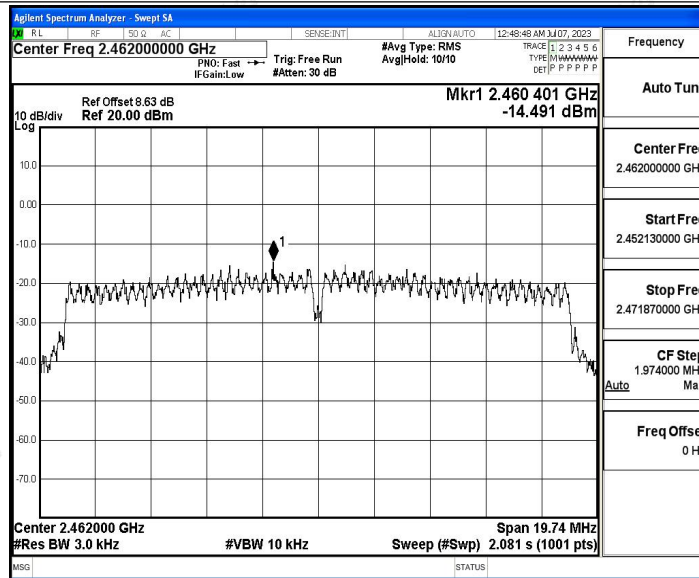


11N20SISO_Ant1_2437

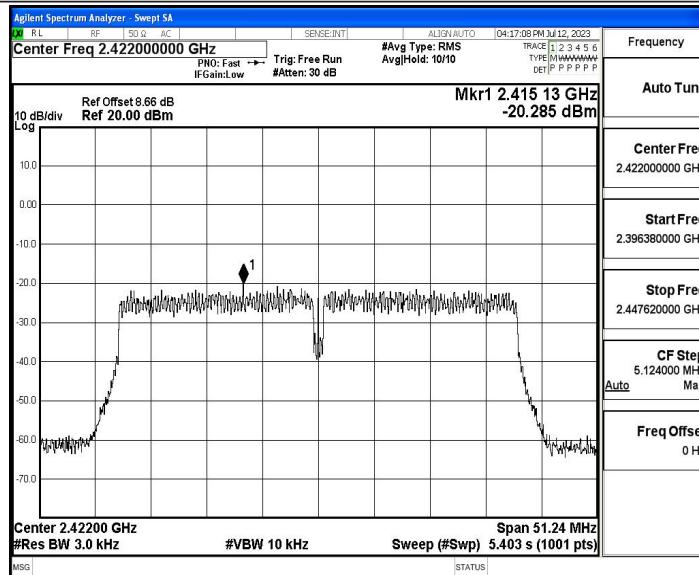


11N20SISO_Ant1_2462



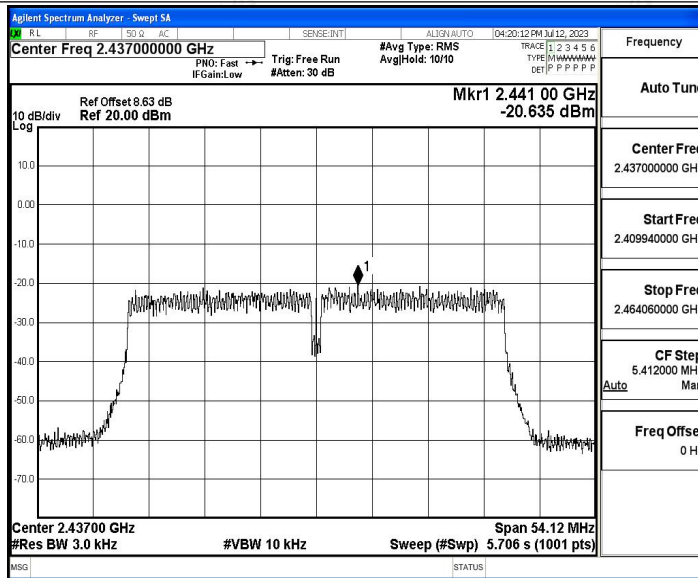


11N40SISO_Ant1_2422

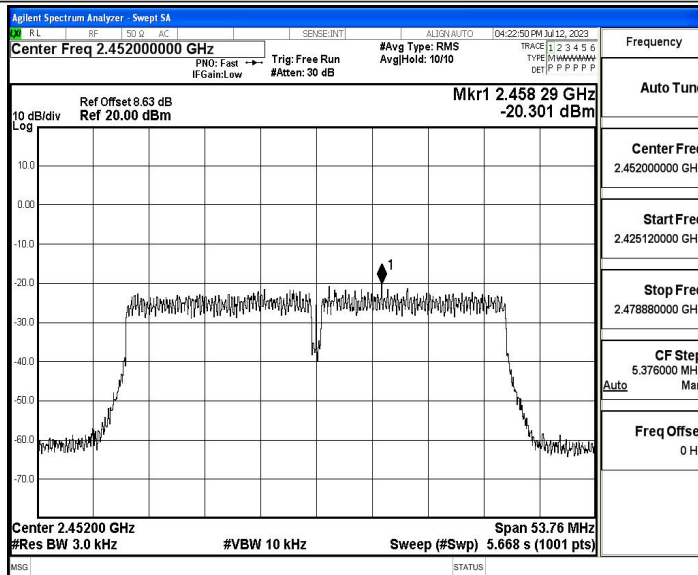


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452



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C.4 Band edge measurements

Test Result

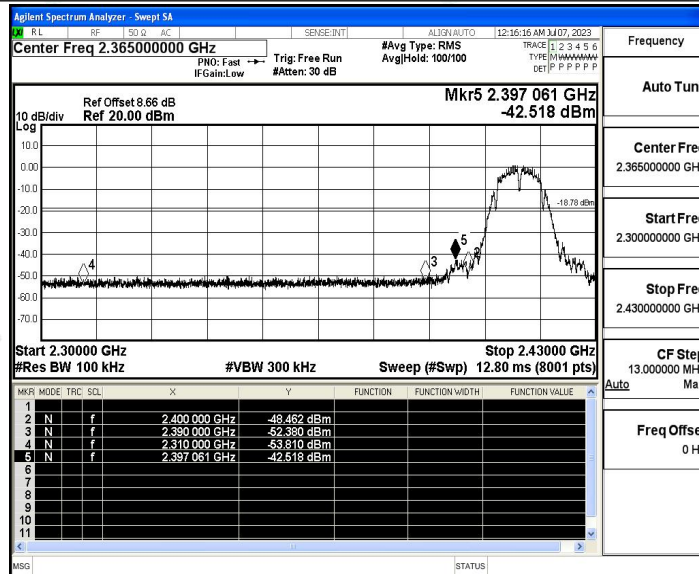
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.22	-42.52	≤ -18.78	PASS
		High	2462	2.00	-46.94	≤ -18	PASS
11G	Ant1	Low	2412	-2.17	-34.75	≤ -22.17	PASS
		High	2462	-0.07	-36.41	≤ -20.07	PASS
11N20SISO	Ant1	Low	2412	-3.24	-35.73	≤ -23.24	PASS
		High	2462	-2.14	-39.36	≤ -22.14	PASS
11N40SISO	Ant1	Low	2422	-6.88	-41.09	≤ -26.88	PASS
		High	2452	-7.14	-40.95	≤ -27.14	PASS



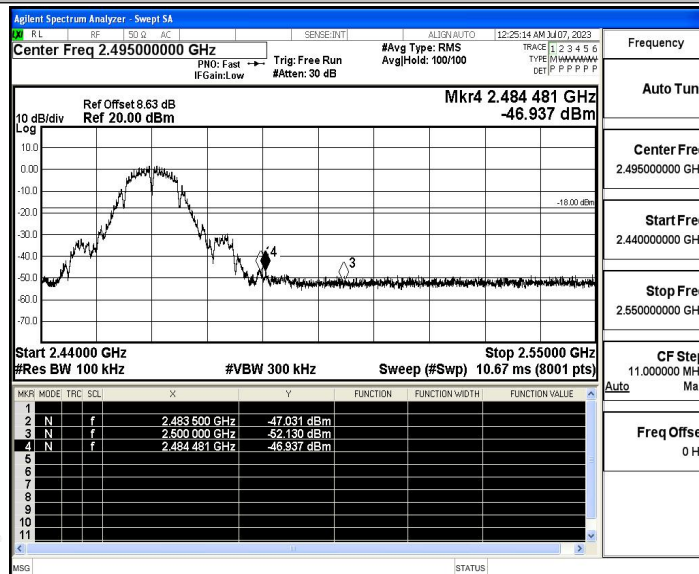


Test Graphs

11B_Ant1_Low_2412

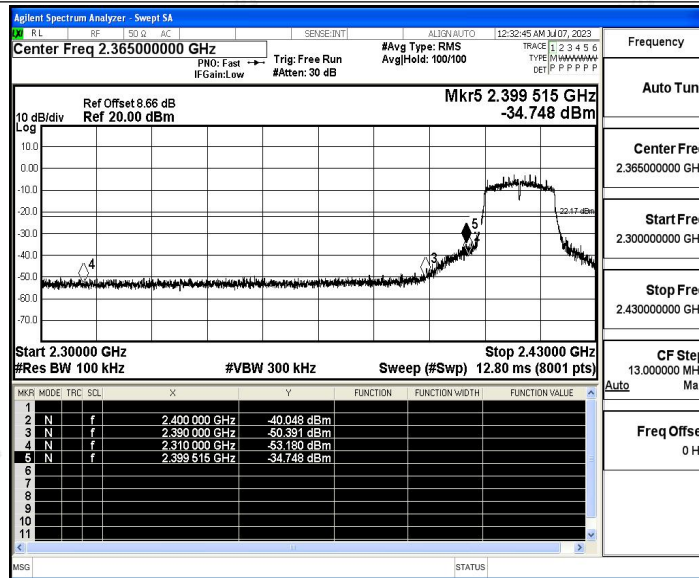


11B_Ant1_High_2462

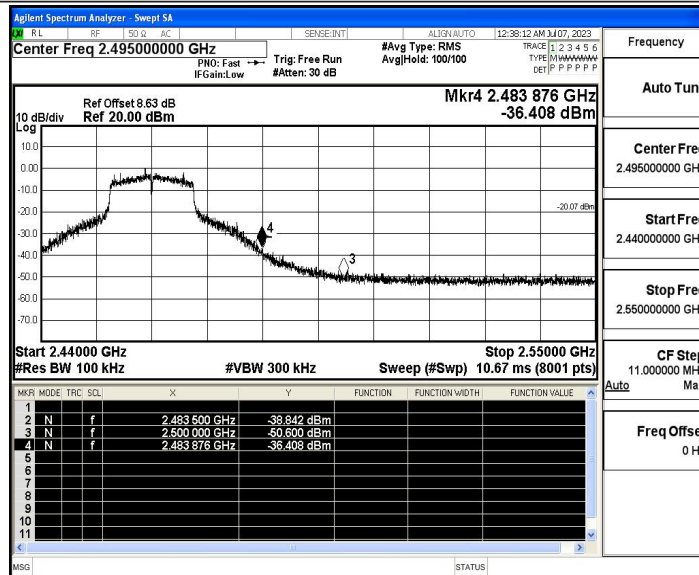


11G_Ant1_Low_2412



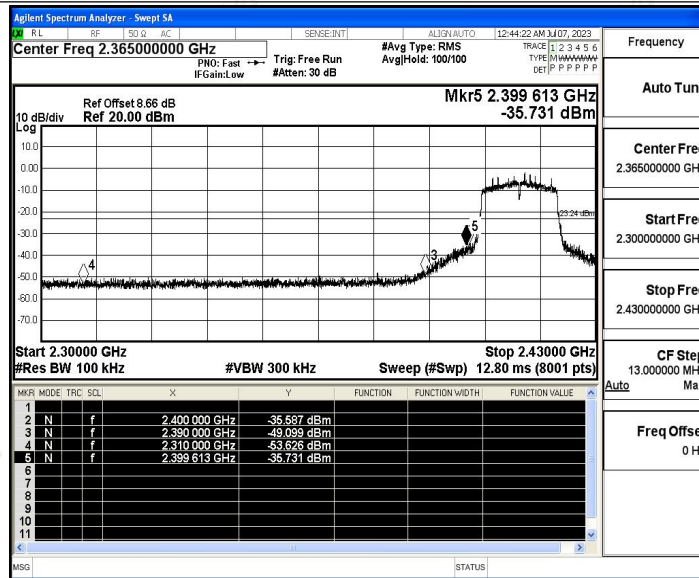


11G_Ant1_High_2462

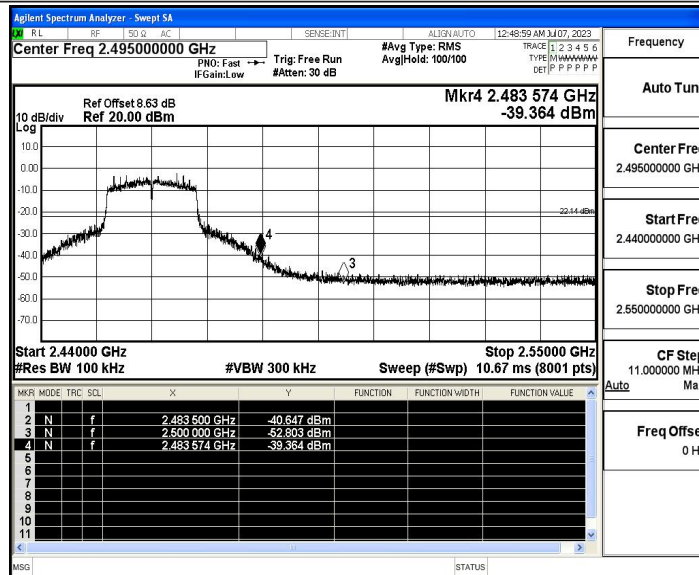


11N20SISO_Ant1_Low_2412





11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

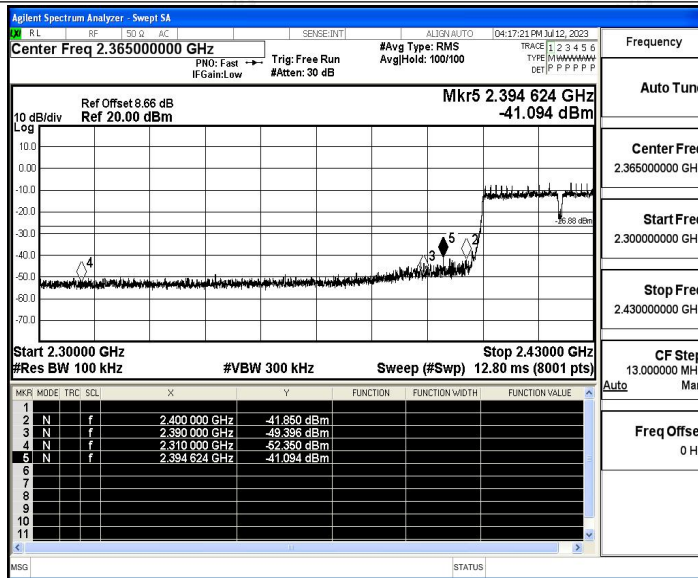


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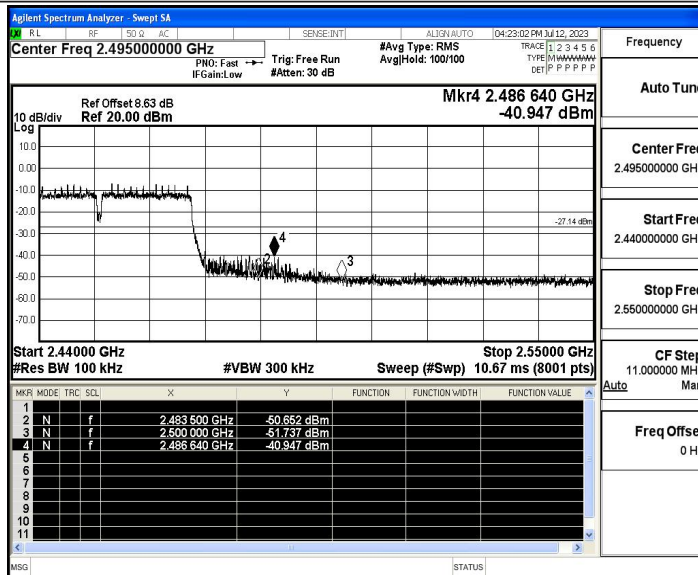
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11N40SISO_Ant1_High_2452



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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	1.22	-60.49	≤-18.78	PASS
			1000~26500	1.22	-46.9	≤-18.78	PASS
		2437	30~1000	2.80	-61.01	≤-17.2	PASS
			1000~26500	2.80	-45.95	≤-17.2	PASS
		2462	30~1000	2.00	-61.14	≤-18	PASS
			1000~26500	2.00	-46.85	≤-18	PASS
11G	Ant1	2412	30~1000	-2.17	-60.67	≤-22.17	PASS
			1000~26500	-2.17	-47.05	≤-22.17	PASS
		2437	30~1000	0.71	-61.33	≤-19.29	PASS
			1000~26500	0.71	-46.2	≤-19.29	PASS
		2462	30~1000	-0.07	-59.55	≤-20.07	PASS
			1000~26500	-0.07	-46.85	≤-20.07	PASS
11N20SISO	Ant1	2412	30~1000	-3.24	-60.4	≤-23.24	PASS
			1000~26500	-3.24	-46.48	≤-23.24	PASS
		2437	30~1000	-0.59	-61.72	≤-20.59	PASS
			1000~26500	-0.59	-45.97	≤-20.59	PASS
		2462	30~1000	-2.14	-61.29	≤-22.14	PASS
			1000~26500	-2.14	-46.59	≤-22.14	PASS
11N40SISO	Ant1	2422	30~1000	-6.88	-61.09	≤-26.88	PASS
			1000~26500	-6.88	-46.55	≤-26.88	PASS
		2437	30~1000	-6.34	-61.71	≤-26.34	PASS
			1000~26500	-6.34	-46.8	≤-26.34	PASS
		2452	30~1000	-7.14	-60.25	≤-27.14	PASS
			1000~26500	-7.14	-47.09	≤-27.14	PASS



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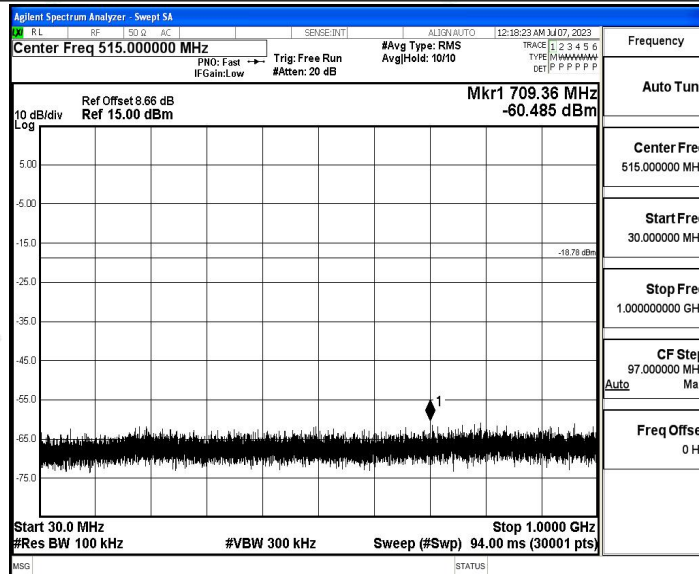
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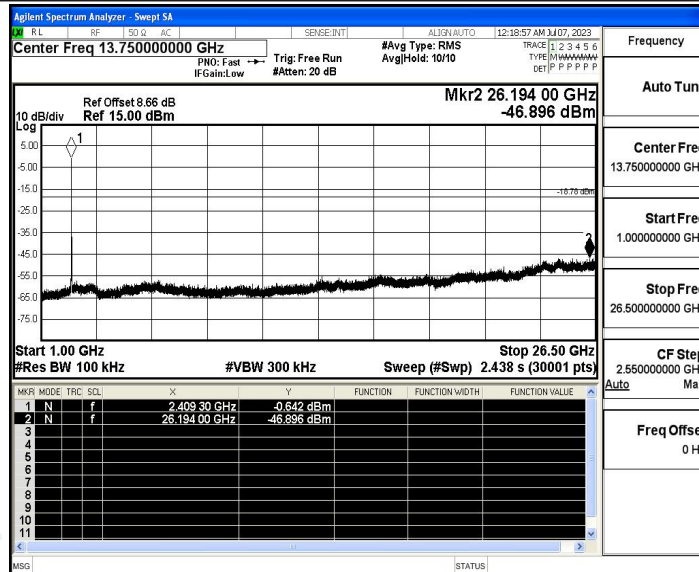


Test Graphs

11B_Ant1_2412_30~1000

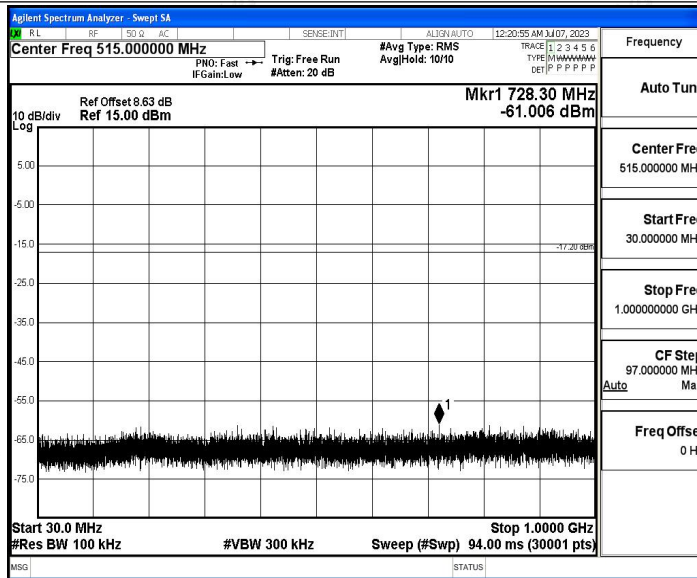


11B_Ant1_2412_1000~26500

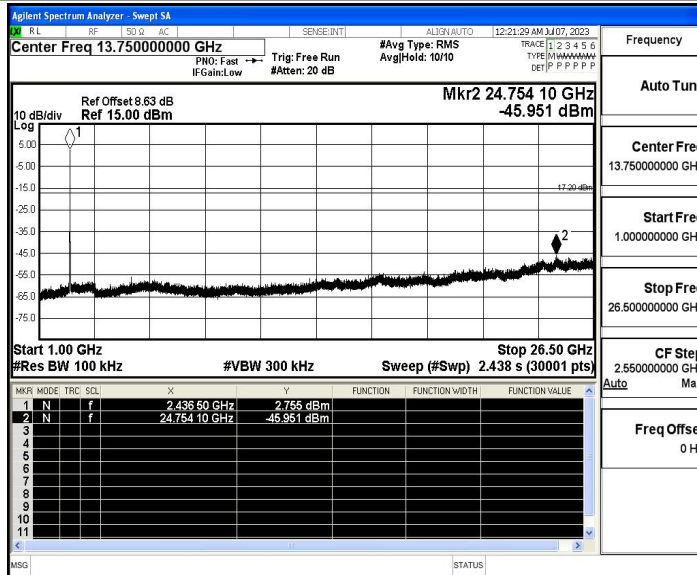


11B_Ant1_2437_30~1000





11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000



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