

FCC Appendix RF Test Data

FCC ID : 2BPSV-C12-H

Company: : Zhangzhou Aiwei IoT Technology Co., Ltd.

EUT : Surveillance camera

Model Number : C12-H

Report No. : CTA25052600201

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.560	2432.480	2442.040	0.5	PASS
		2462	9.160	2456.960	2466.120	0.5	PASS
11G	Ant1	2412	15.680	2403.880	2419.560	0.5	PASS
		2437	15.400	2429.480	2444.880	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.840	2403.760	2419.600	0.5	PASS
		2437	15.640	2429.440	2445.080	0.5	PASS
		2462	16.200	2453.360	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	28.880	2434.400	2463.280	0.5	PASS

Test Graphs

11B_Ant1_2412



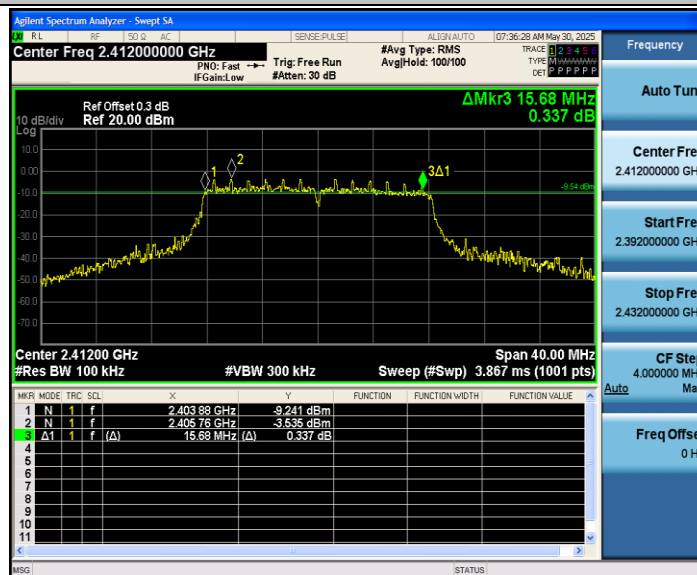
11B_Ant1_2437



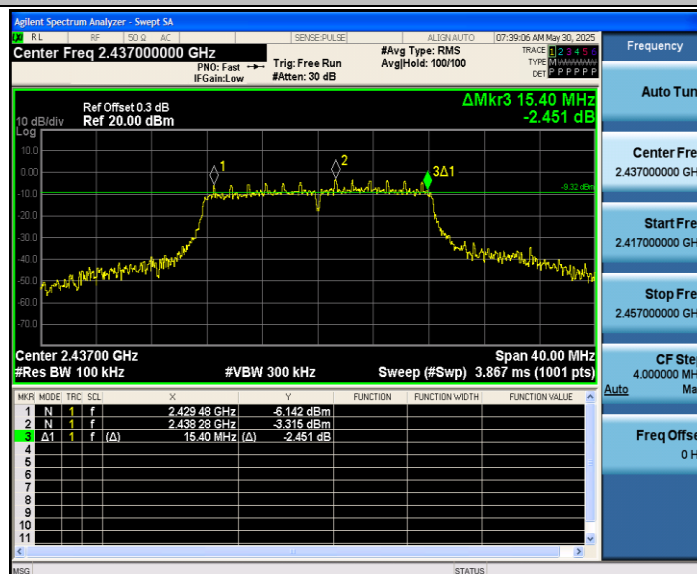
11B_Ant1_2462



11G_Ant1_2412



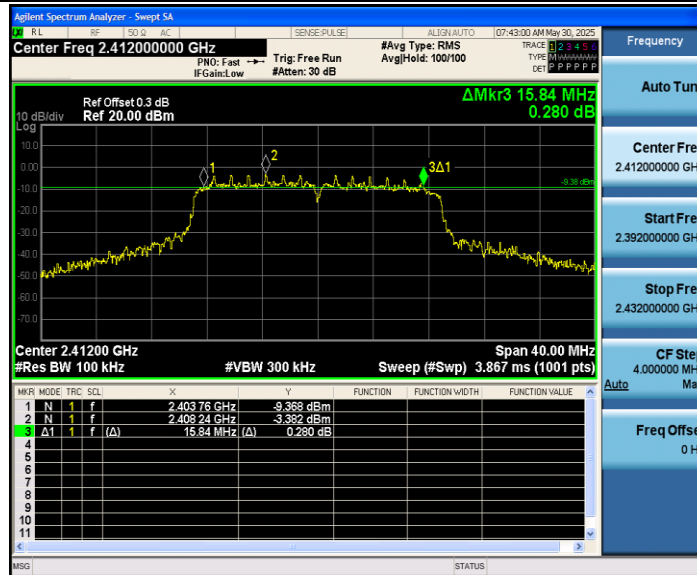
11G_Ant1_2437



11G_Ant1_2462



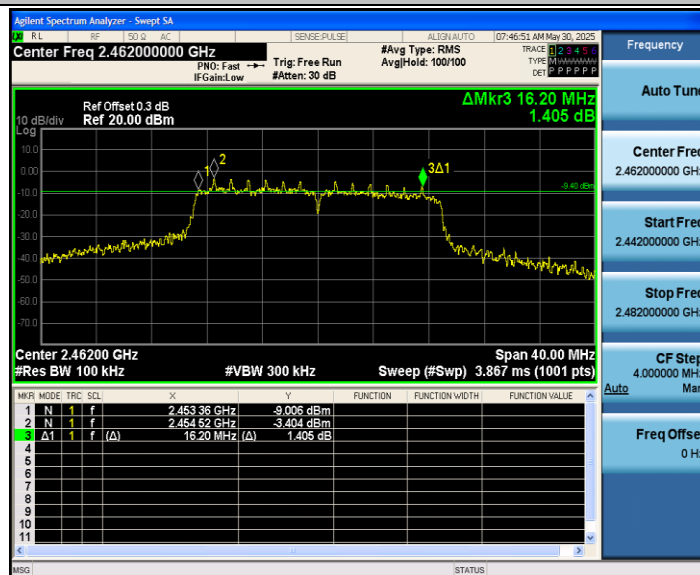
11N20SISO_Ant1_2412



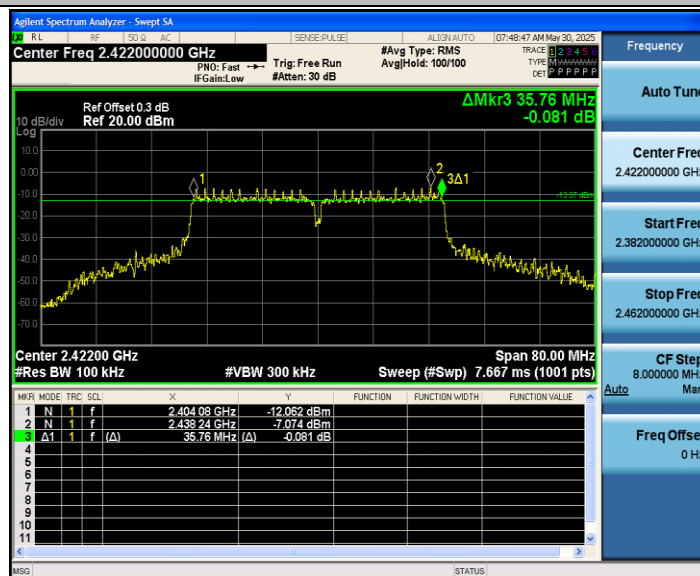
11N20SISO_Ant1_2437



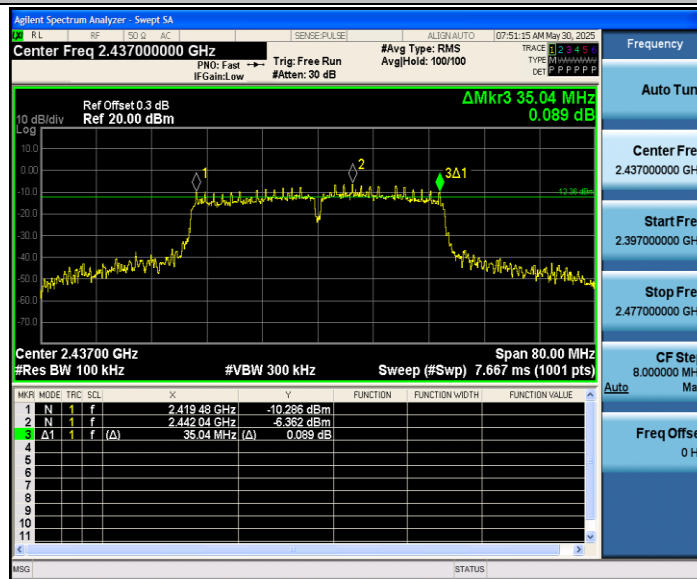
11N20SISO_Ant1_2462



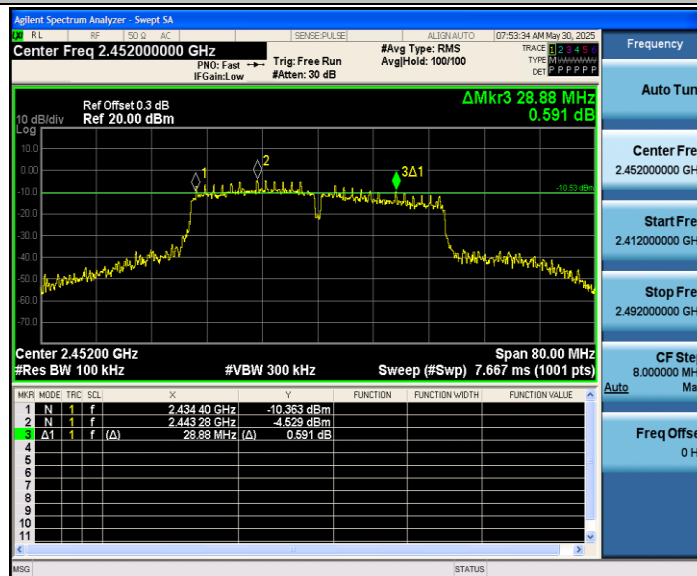
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



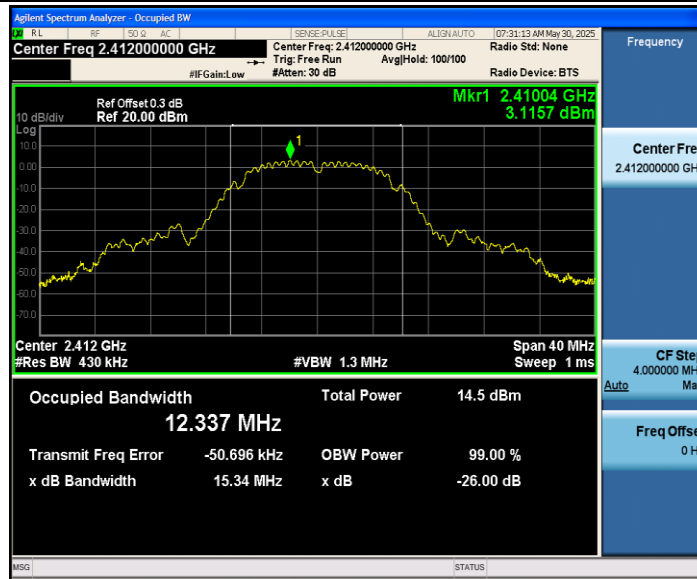
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.337	2405.7808	2418.1178	---	---
		2437	12.294	2431.0968	2443.3908	---	---
		2462	12.883	2455.3705	2468.2535	---	---
11G	Ant1	2412	16.702	2403.6013	2420.3033	---	---
		2437	16.616	2428.8020	2445.4180	---	---
		2462	16.769	2453.4822	2470.2512	---	---
11N20SISO	Ant1	2412	17.685	2403.1461	2420.8311	---	---
		2437	17.601	2428.3086	2445.9096	---	---
		2462	17.829	2452.9442	2470.7732	---	---
11N40SISO	Ant1	2422	36.462	2403.9134	2440.3754	---	---
		2437	36.022	2419.0720	2455.0940	---	---
		2452	35.940	2433.9296	2469.8696	---	---

Test Graphs

11B_Ant1_2412



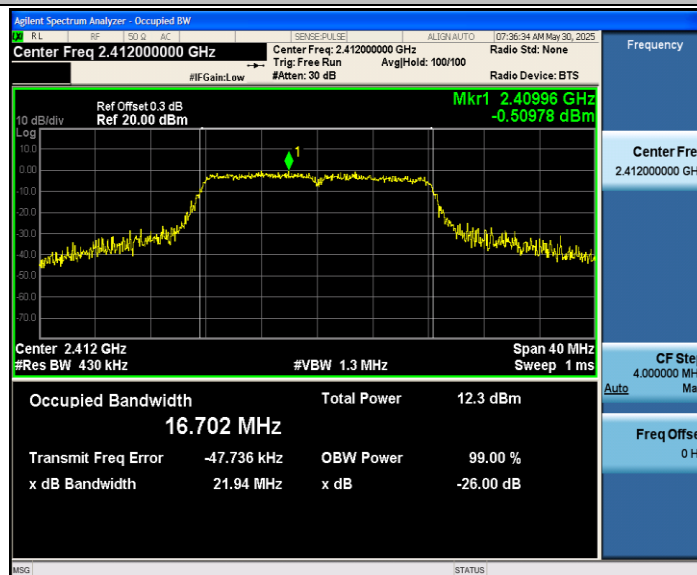
11B_Ant1_2437



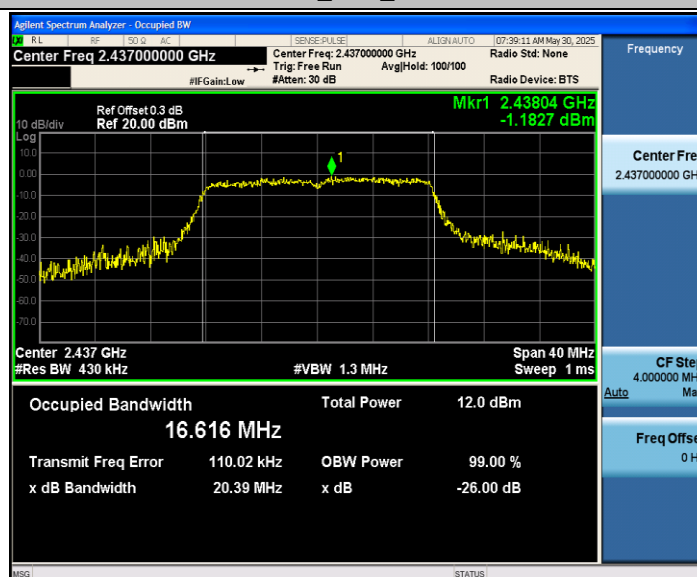
11B_Ant1_2462



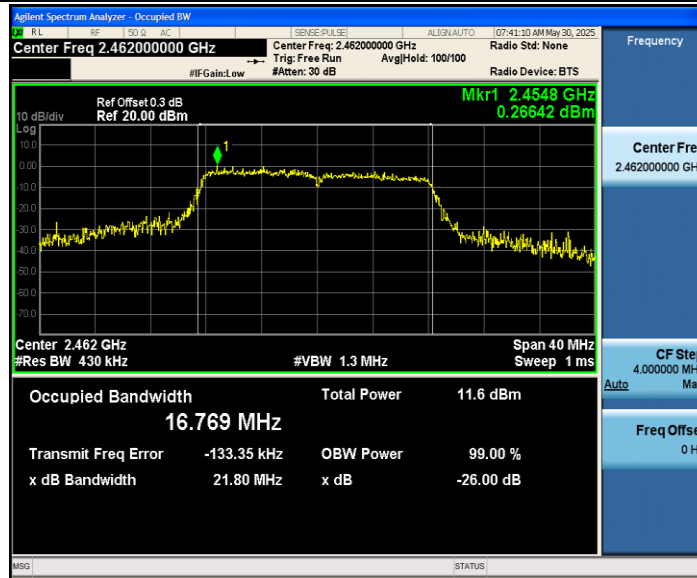
11G_Ant1_2412



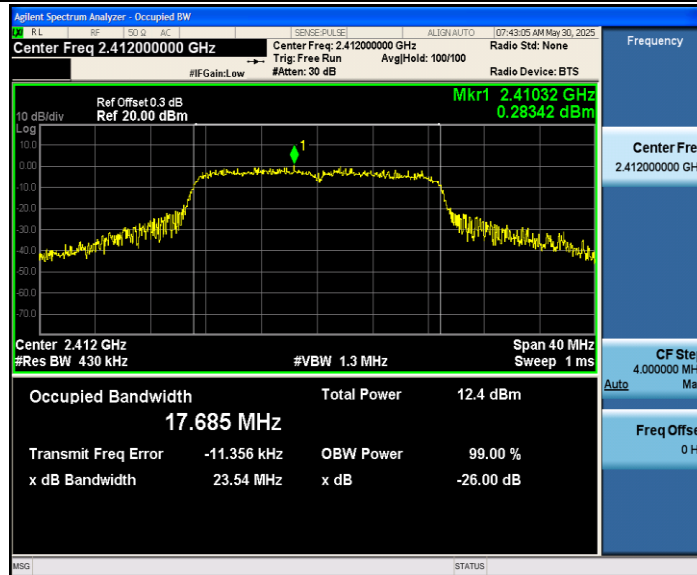
11G_Ant1_2437



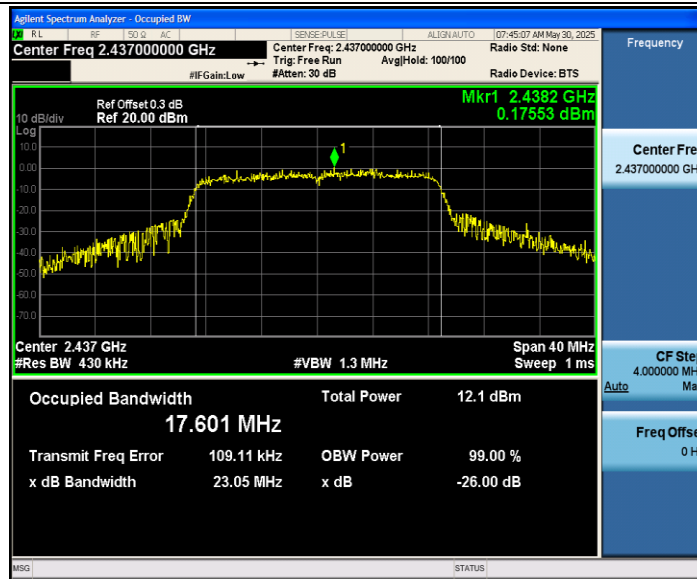
11G_Ant1_2462



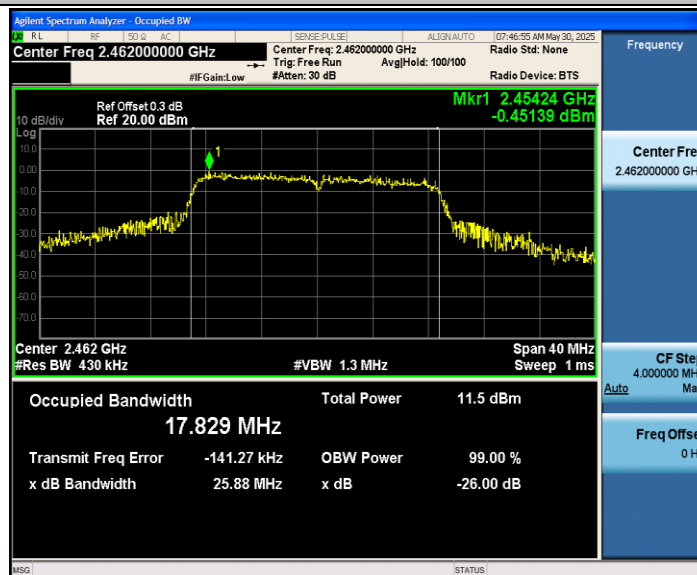
11N20SISO_Ant1_2412



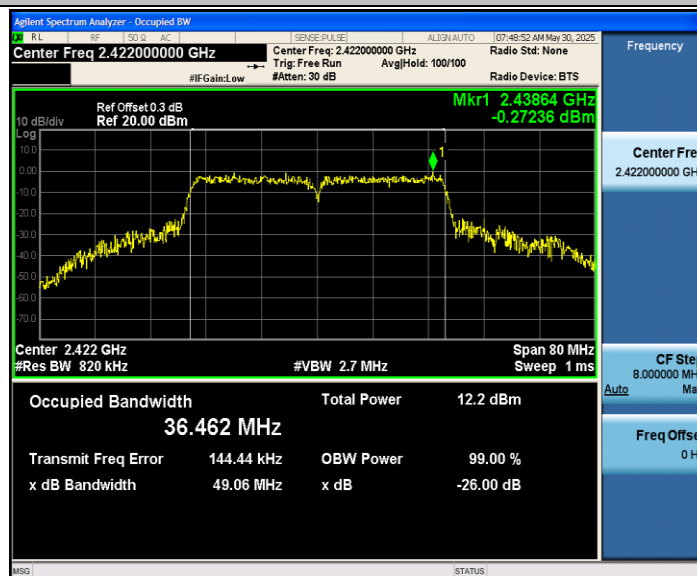
11N20SISO_Ant1_2437



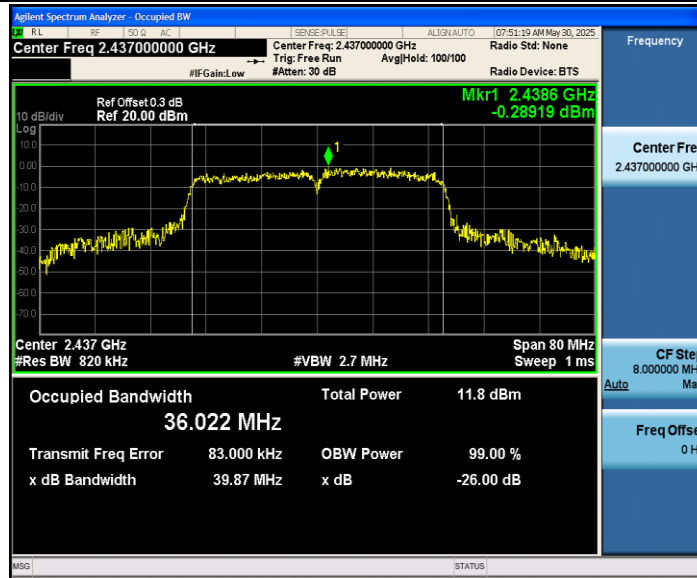
11N20SISO_Ant1_2462



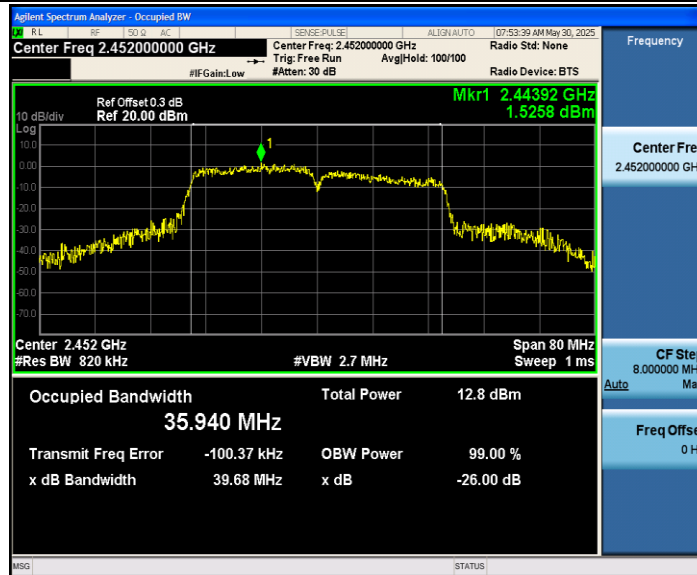
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.34	≤30.00	PASS
		2437	14.64	≤30.00	PASS
		2462	13.89	≤30.00	PASS
11G	Ant1	2412	13.04	≤30.00	PASS
		2437	12.48	≤30.00	PASS
		2462	12.08	≤30.00	PASS
11N20SISO	Ant1	2412	12.82	≤30.00	PASS
		2437	12.44	≤30.00	PASS
		2462	11.74	≤30.00	PASS
11N40SISO	Ant1	2422	12.33	≤30.00	PASS
		2437	11.80	≤30.00	PASS
		2452	12.58	≤30.00	PASS

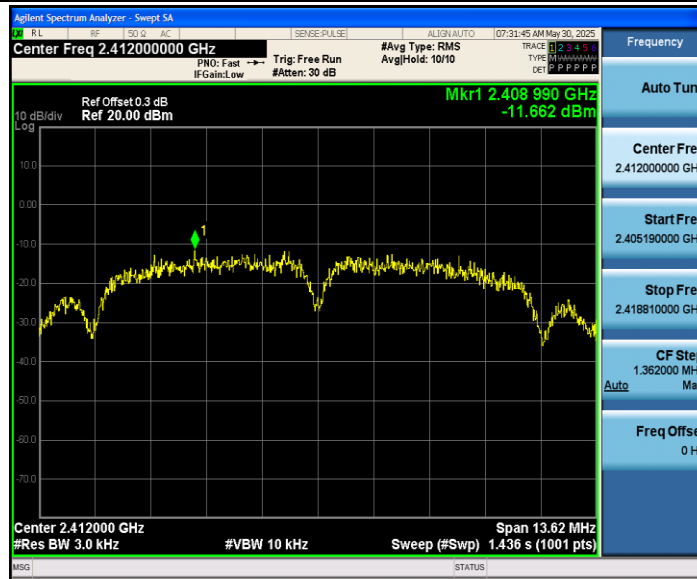
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.66	≤8.00	PASS
		2437	-10.76	≤8.00	PASS
		2462	-11.42	≤8.00	PASS
11G	Ant1	2412	-19.30	≤8.00	PASS
		2437	-18.91	≤8.00	PASS
		2462	-20.59	≤8.00	PASS
11N20SISO	Ant1	2412	-19.49	≤8.00	PASS
		2437	-19.37	≤8.00	PASS
		2462	-20.27	≤8.00	PASS
11N40SISO	Ant1	2422	-22.41	≤8.00	PASS
		2437	-22.78	≤8.00	PASS
		2452	-20.83	≤8.00	PASS

Test Graphs

11B_Ant1_2412



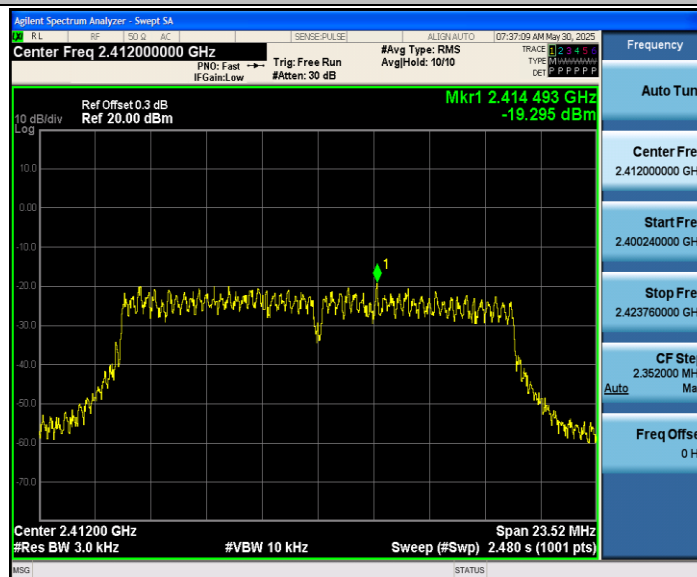
11B_Ant1_2437



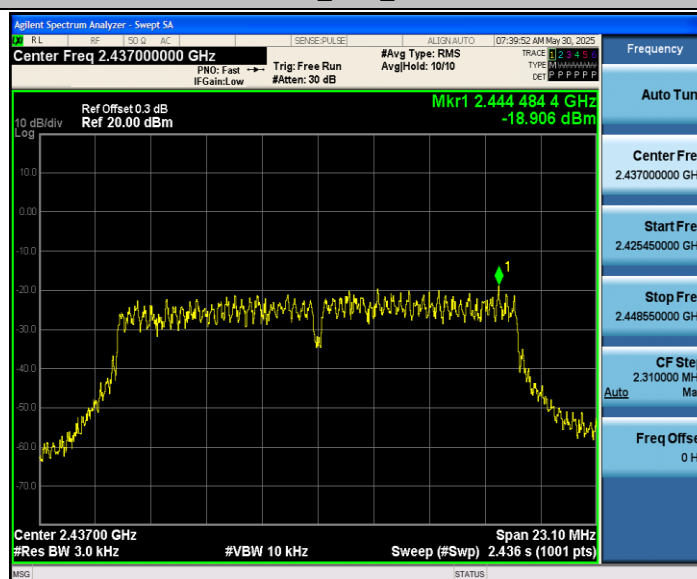
11B_Ant1_2462



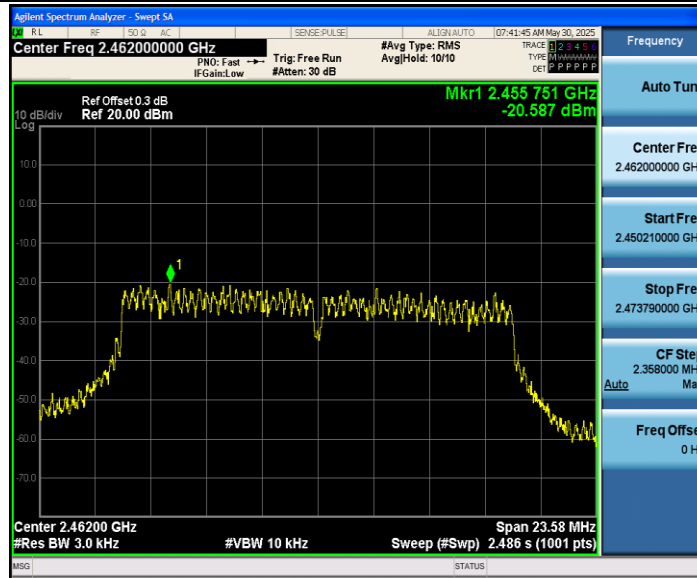
11G_Ant1_2412



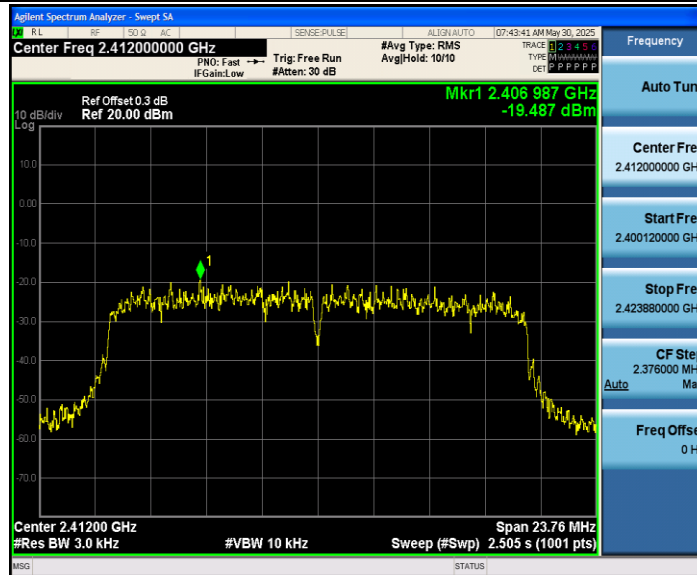
11G_Ant1_2437



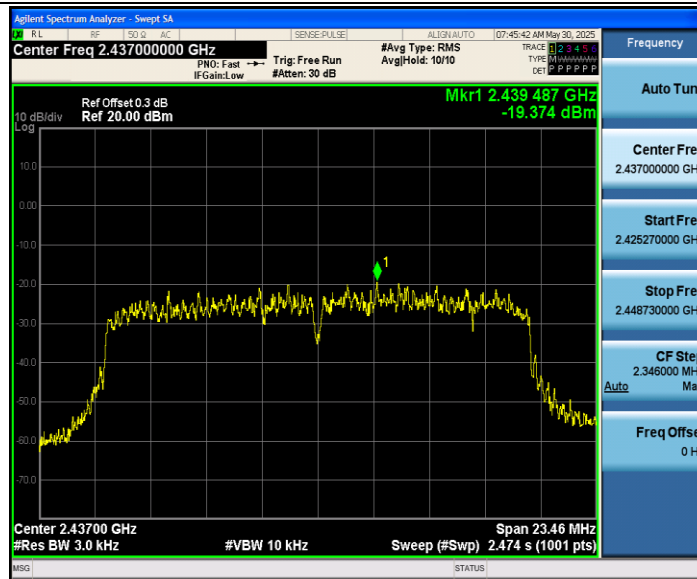
11G_Ant1_2462



11N20SISO_Ant1_2412



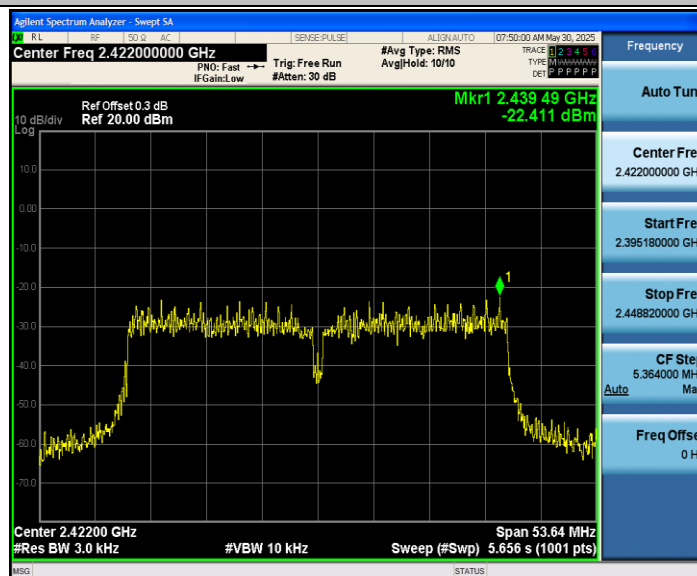
11N20SISO_Ant1_2437



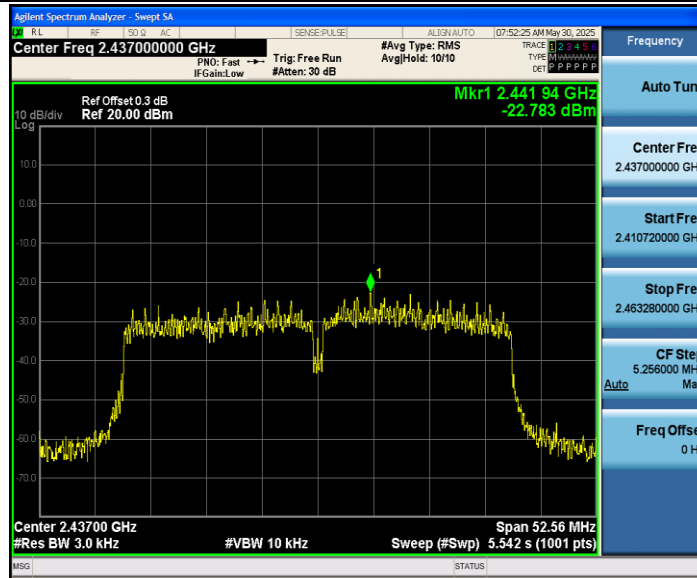
11N20SISO_Ant1_2462



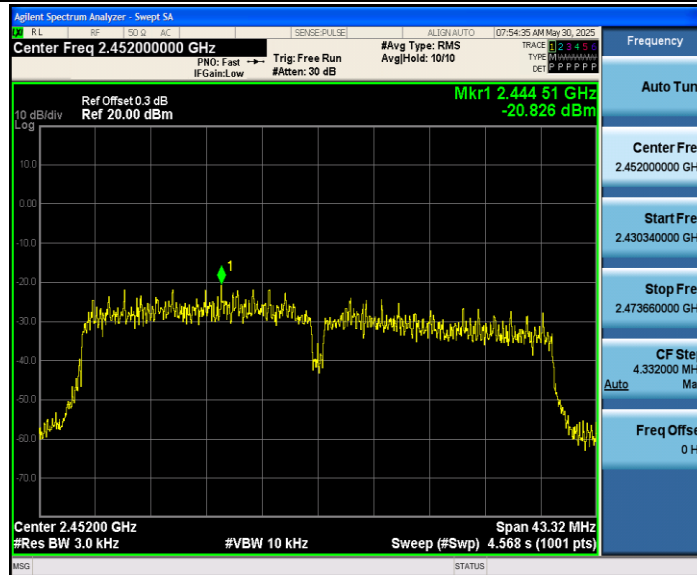
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



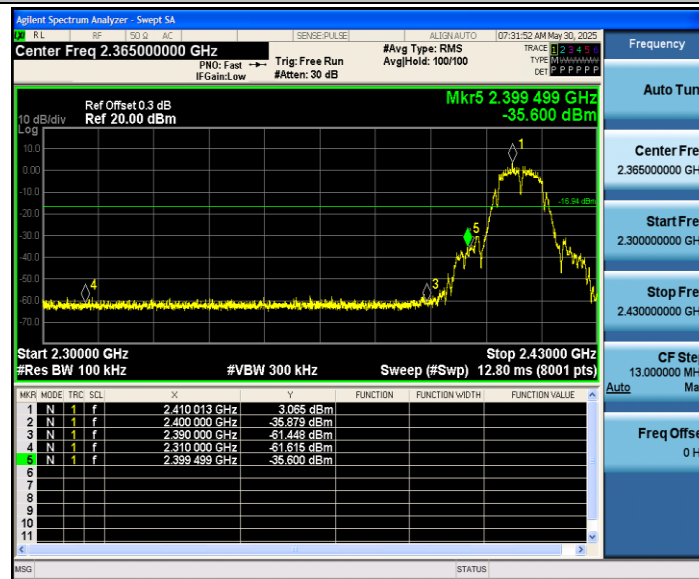
Appendix E: Band edge measurements

Test Result

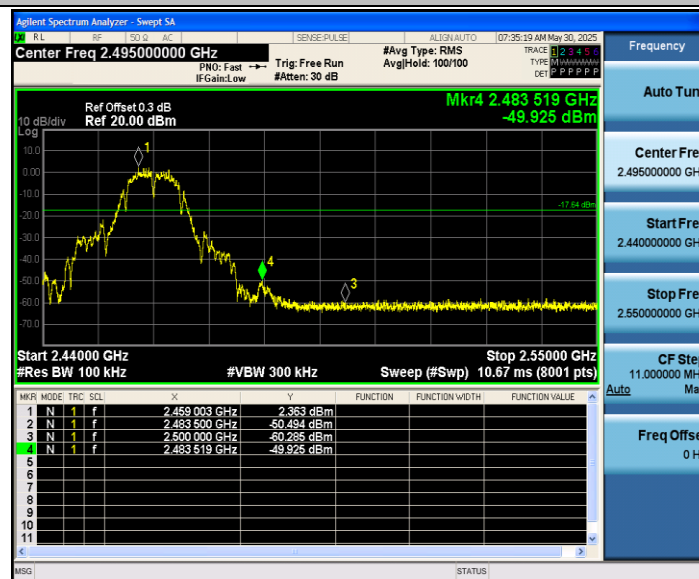
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.07	-35.6	≤-16.94	PASS
		High	2462	2.36	-49.93	≤-17.64	PASS
11G	Ant1	Low	2412	-3.47	-36.14	≤-23.47	PASS
		High	2462	-3.41	-47.35	≤-23.41	PASS
11N20SISO	Ant1	Low	2412	-3.33	-34.45	≤-23.33	PASS
		High	2462	-3.57	-49.21	≤-23.57	PASS
11N40SISO	Ant1	Low	2422	-7.10	-37.07	≤-27.1	PASS
		High	2452	-4.58	-40.78	≤-24.58	PASS

Test Graphs

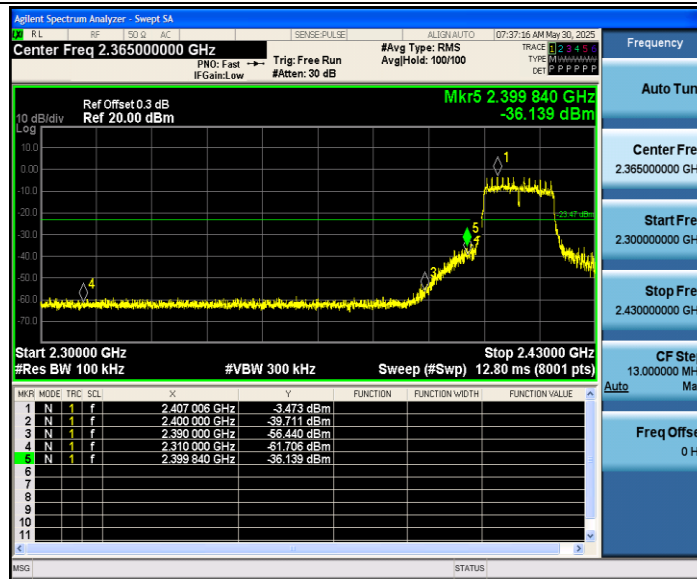
11B_Ant1_Low_2412



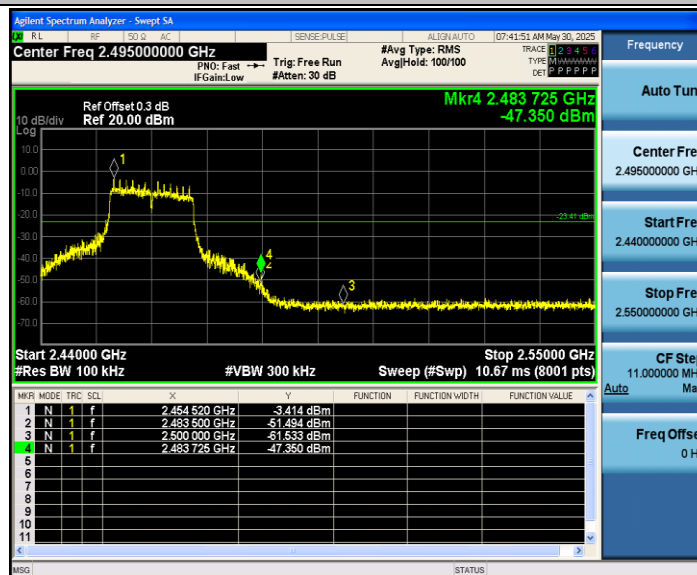
11B_Ant1_High_2462



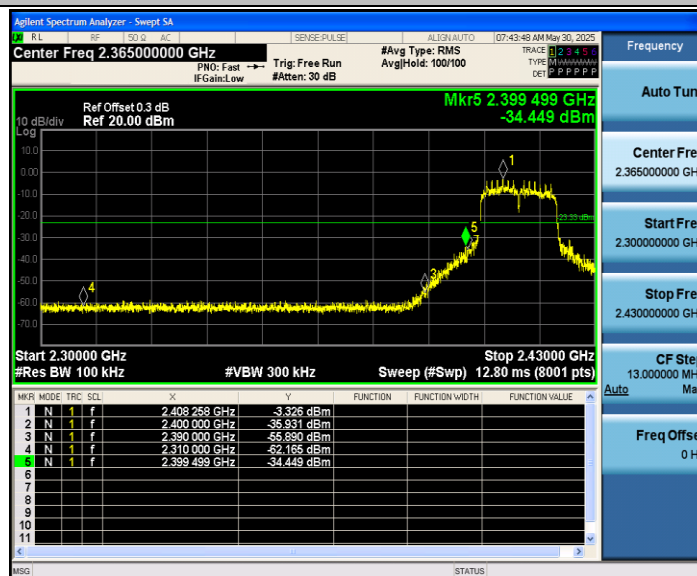
11G_Ant1_Low_2412



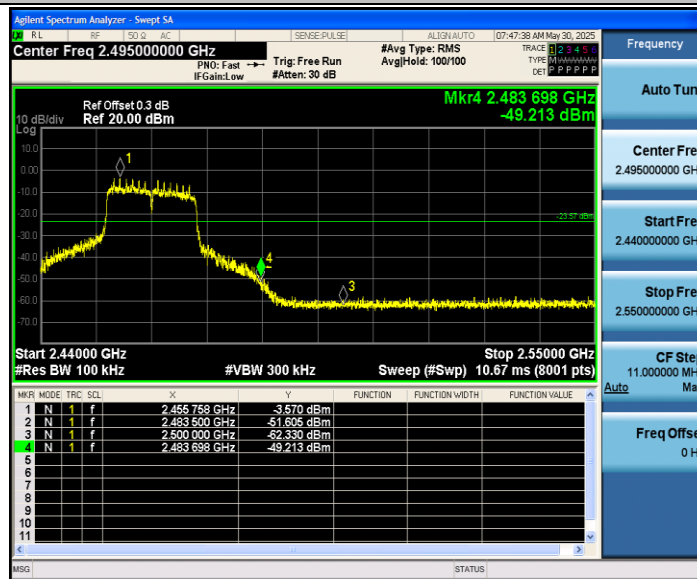
11G_Ant1_High_2462



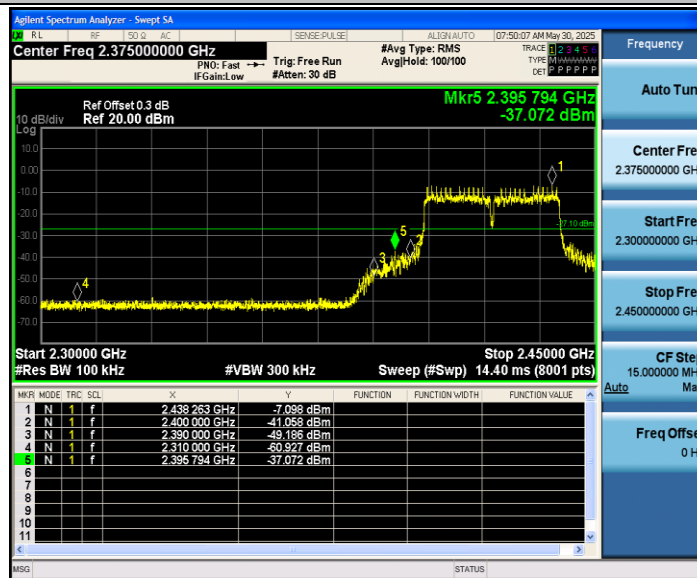
11N20SISO_Ant1_Low_2412



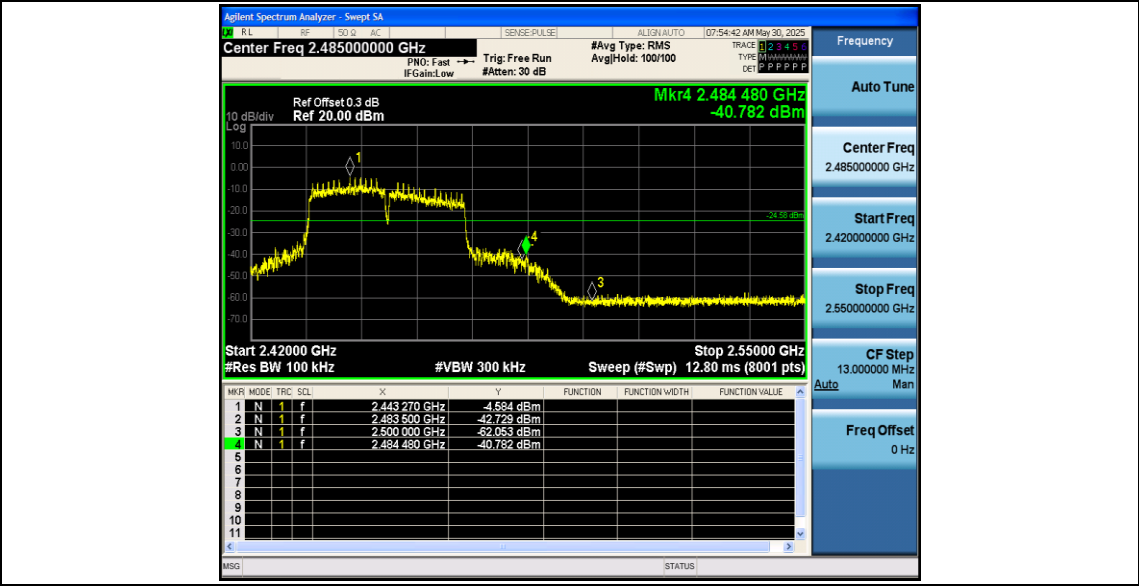
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

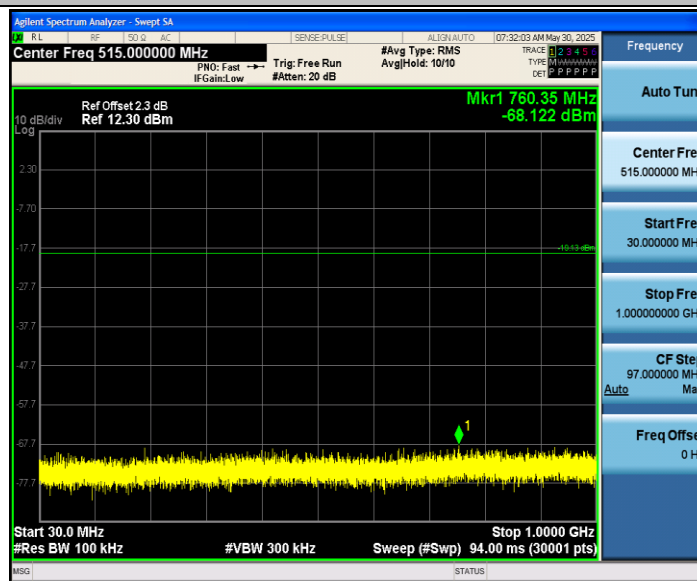
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-68.12	≤-19.13	PASS
			1000~26500	0.87	-38.77	≤-19.13	PASS
		2437	Reference	0.83	0.83	---	PASS
			30~1000	0.83	-67.43	≤-19.17	PASS
			1000~26500	0.83	-36.7	≤-19.17	PASS
		2462	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-67.12	≤-19.43	PASS
			1000~26500	0.57	-30.27	≤-19.43	PASS
11G	Ant1	2412	Reference	-3.43	-3.43	---	PASS
			30~1000	-3.43	-68.03	≤-23.43	PASS
			1000~26500	-3.43	-51.91	≤-23.43	PASS
		2437	Reference	-6.55	-6.55	---	PASS
			30~1000	-6.55	-67.75	≤-26.55	PASS
			1000~26500	-6.55	-51.16	≤-26.55	PASS
		2462	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-68.18	≤-24.17	PASS
			1000~26500	-4.17	-43.97	≤-24.17	PASS
11N20SISO	Ant1	2412	Reference	-3.75	-3.75	---	PASS
			30~1000	-3.75	-67.9	≤-23.75	PASS
			1000~26500	-3.75	-52.18	≤-23.75	PASS
		2437	Reference	-3.92	-3.92	---	PASS
			30~1000	-3.92	-68.1	≤-23.92	PASS
			1000~26500	-3.92	-53.29	≤-23.92	PASS
		2462	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-67.81	≤-23.58	PASS
			1000~26500	-3.58	-44.19	≤-23.58	PASS
11N40SISO	Ant1	2422	Reference	-7.10	-7.10	---	PASS
			30~1000	-7.10	-67.44	≤-27.1	PASS
			1000~26500	-7.10	-52.13	≤-27.1	PASS
		2437	Reference	-7.05	-7.05	---	PASS
			30~1000	-7.05	-68.29	≤-27.05	PASS
			1000~26500	-7.05	-52.03	≤-27.05	PASS
		2452	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-68.04	≤-26.09	PASS
			1000~26500	-6.09	-52.02	≤-26.09	PASS

Test Graphs

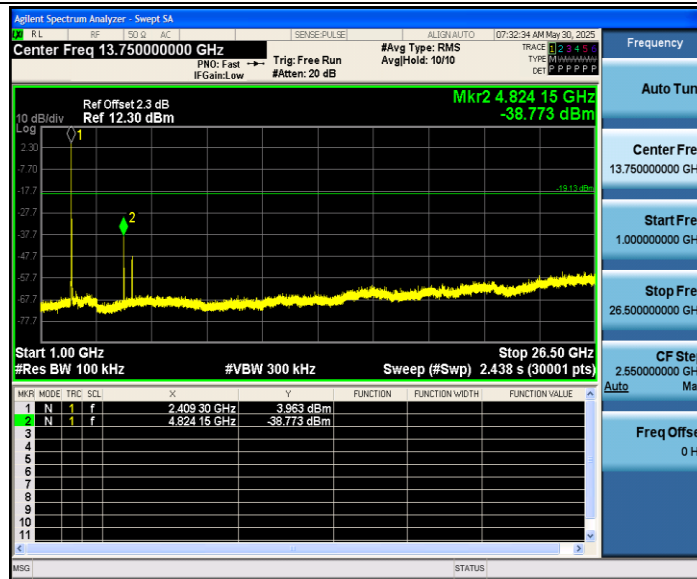
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



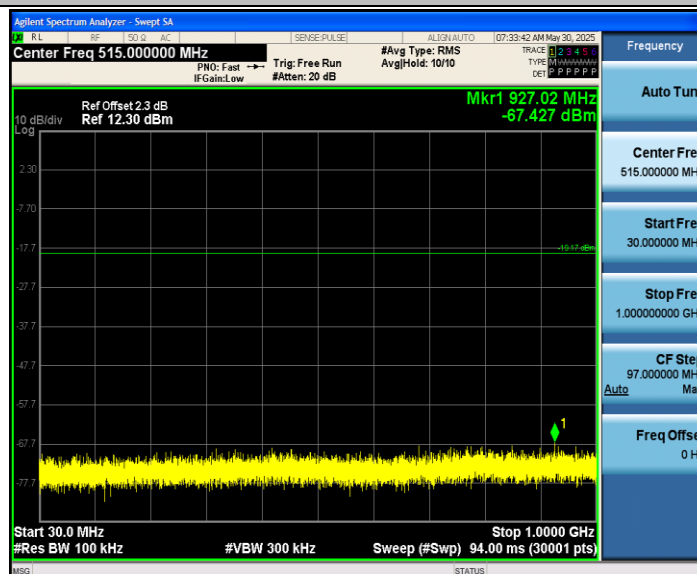
11B_Ant1_2412_1000~26500



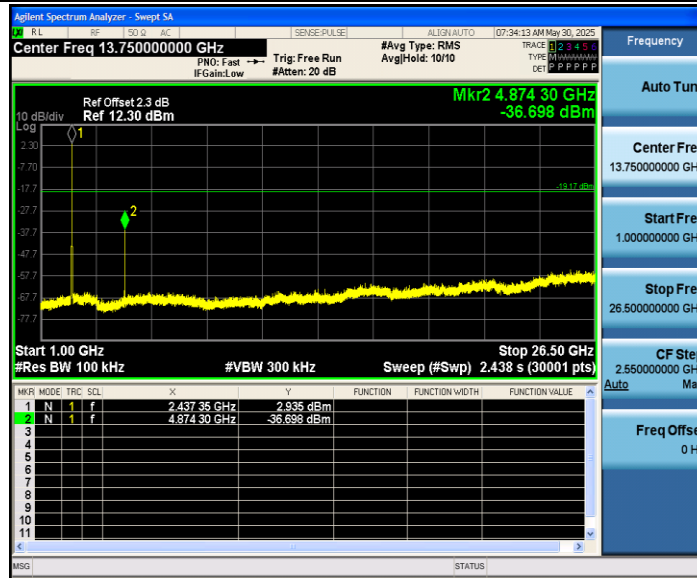
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



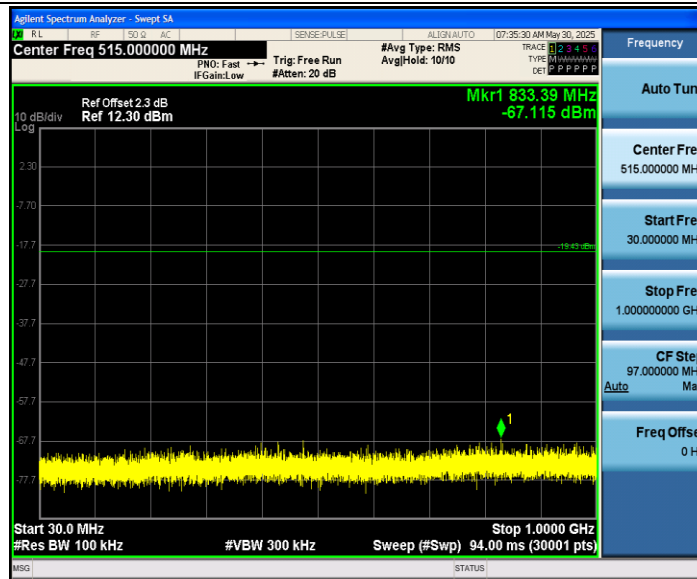
11B_Ant1_2437_1000~26500



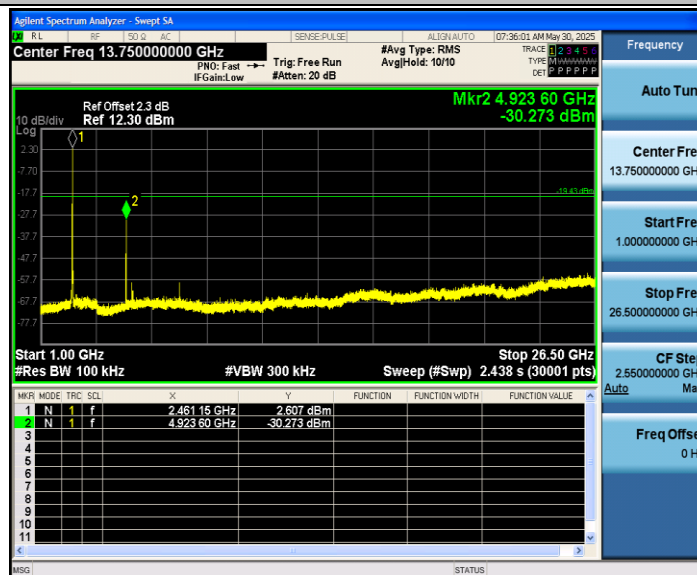
11B_Ant1_2462_0~Reference



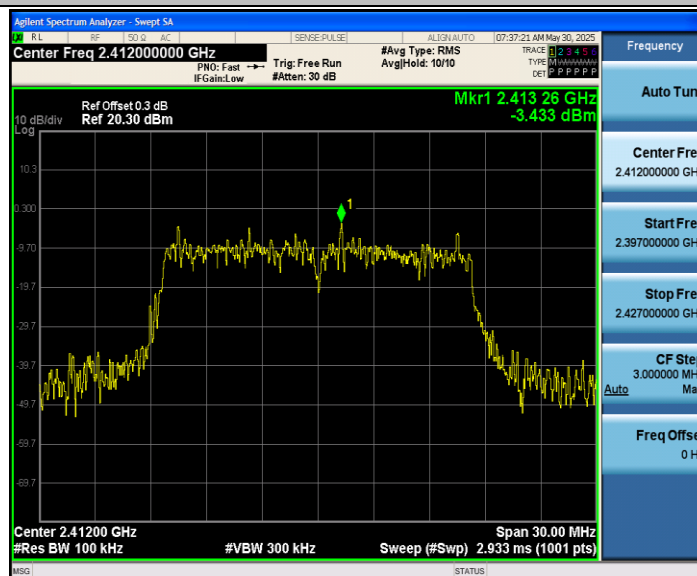
11B_Ant1_2462_30~1000



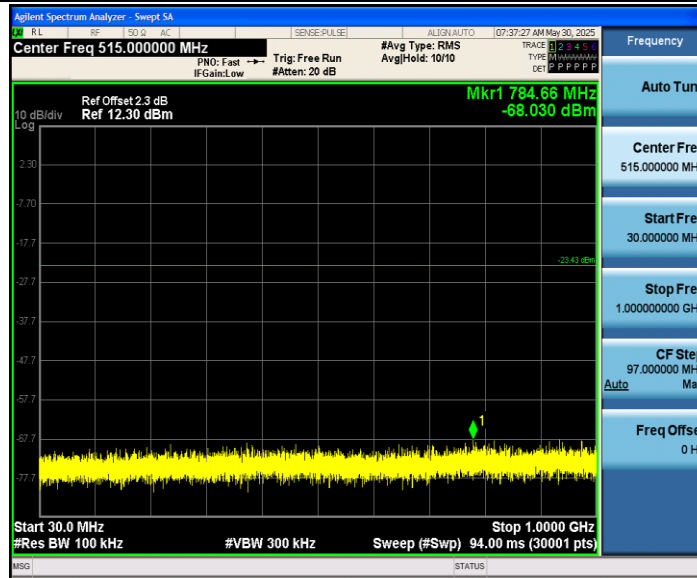
11B_Ant1_2462_1000~26500



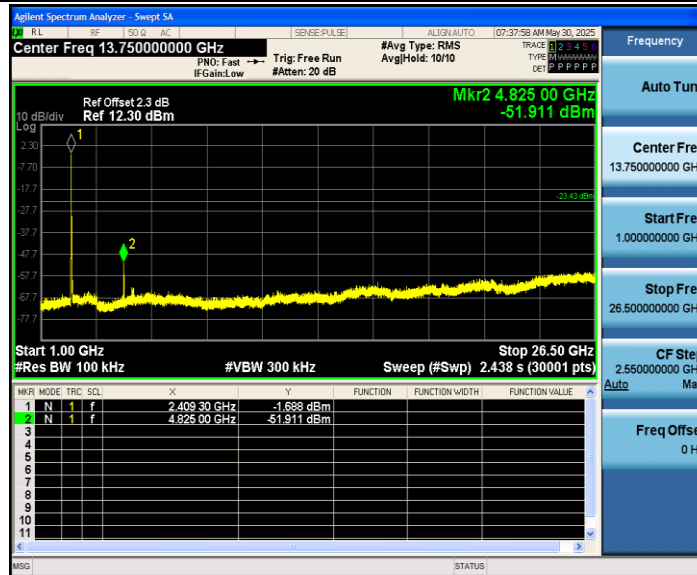
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



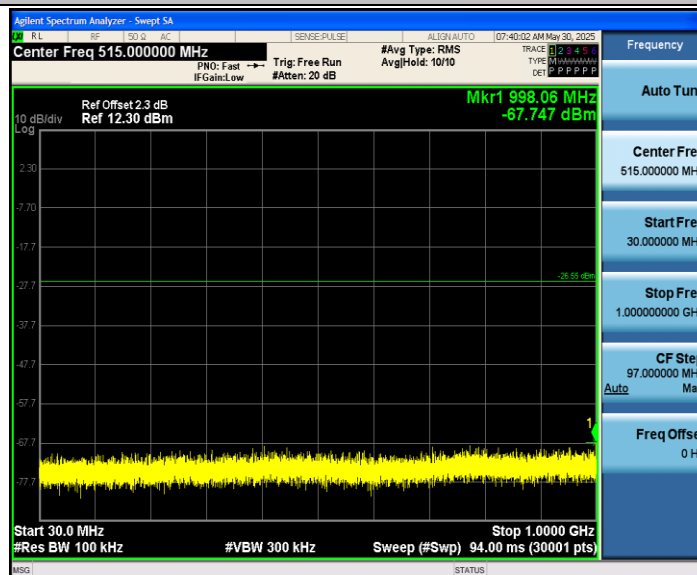
11G_Ant1_2412_1000~26500



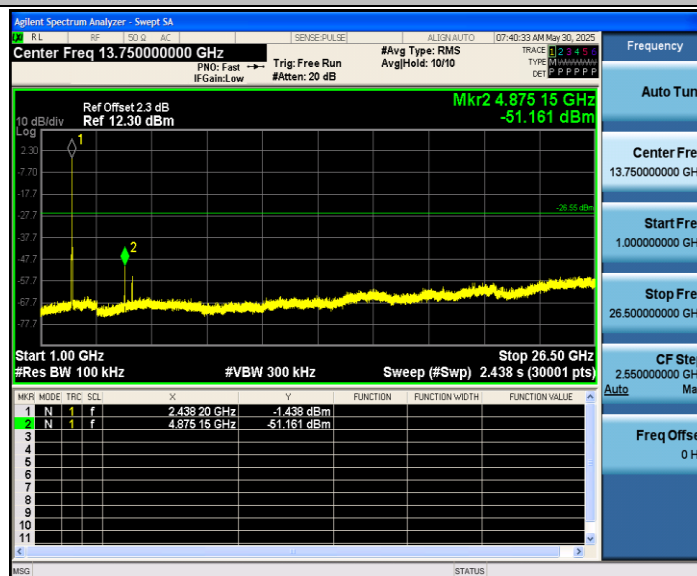
11G_Ant1_2437_0~Reference



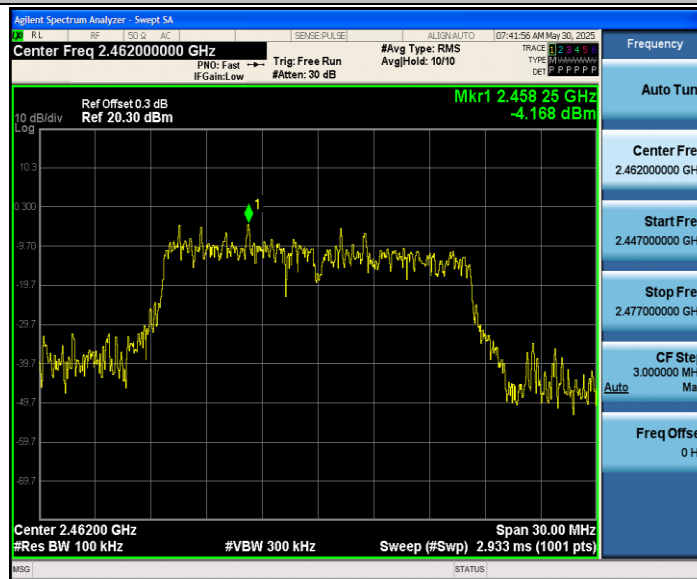
11G_Ant1_2437_30~1000



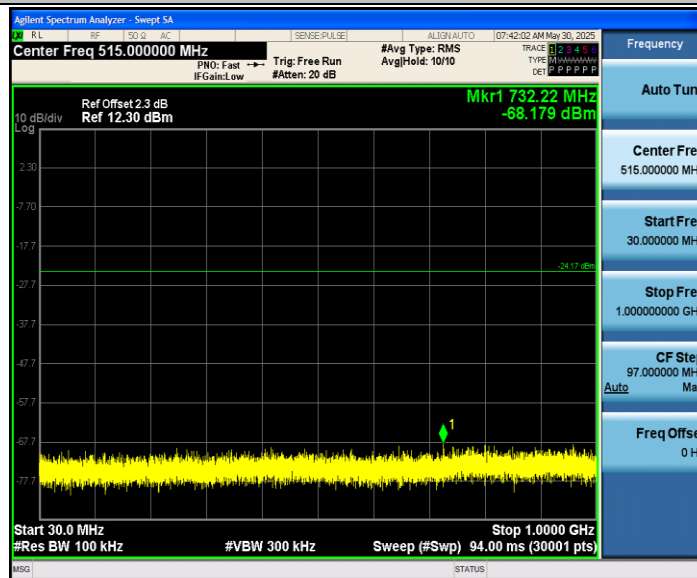
11G_Ant1_2437_1000~26500



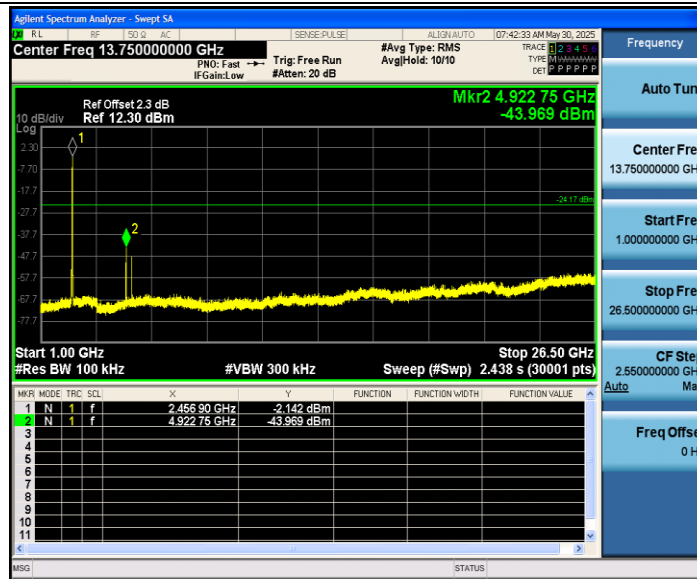
11G_Ant1_2462_0~Reference



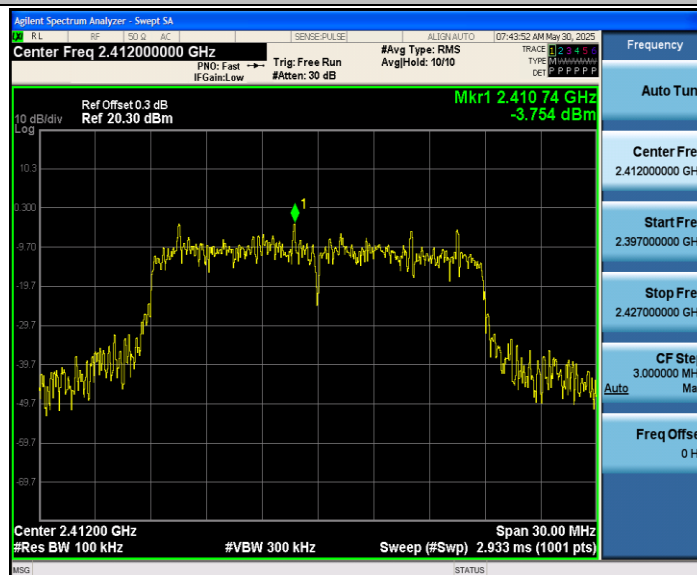
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

