

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BQZB-G1618-05

Company : Shenzhen GPD Technology Co., Ltd.

EUT : Handheld PC gaming console

Model Number : G1618-05

Report No. : CTA25091900502

Reviewed By : Eric Wang

Appendix RF Test Data for 2.4GWIFI ANT1

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
		2437	15.720	2429.120	2444.840	0.5	PASS
		2462	16.200	2453.920	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.120	2403.520	2420.640	0.5	PASS
		2437	17.160	2428.480	2445.640	0.5	PASS
		2462	17.480	2453.320	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.240	2439.920	0.5	PASS
		2437	35.760	2419.240	2455.000	0.5	PASS
		2452	35.680	2434.320	2470.000	0.5	PASS
11AX20SISO	Ant1	2412	18.480	2402.600	2421.080	0.5	PASS
		2437	18.160	2428.080	2446.240	0.5	PASS
		2462	18.560	2452.640	2471.200	0.5	PASS
11AX40SISO	Ant1	2422	33.520	2407.040	2440.560	0.5	PASS
		2437	36.400	2419.080	2455.480	0.5	PASS
		2452	31.200	2437.040	2468.240	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



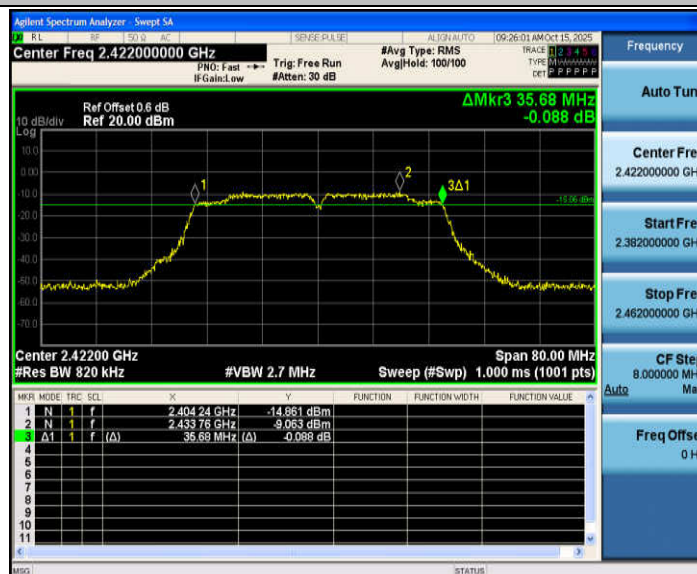
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



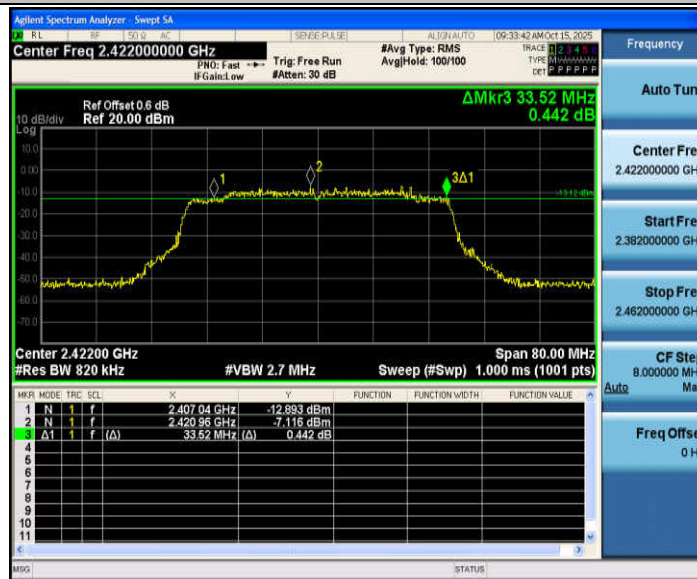
11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



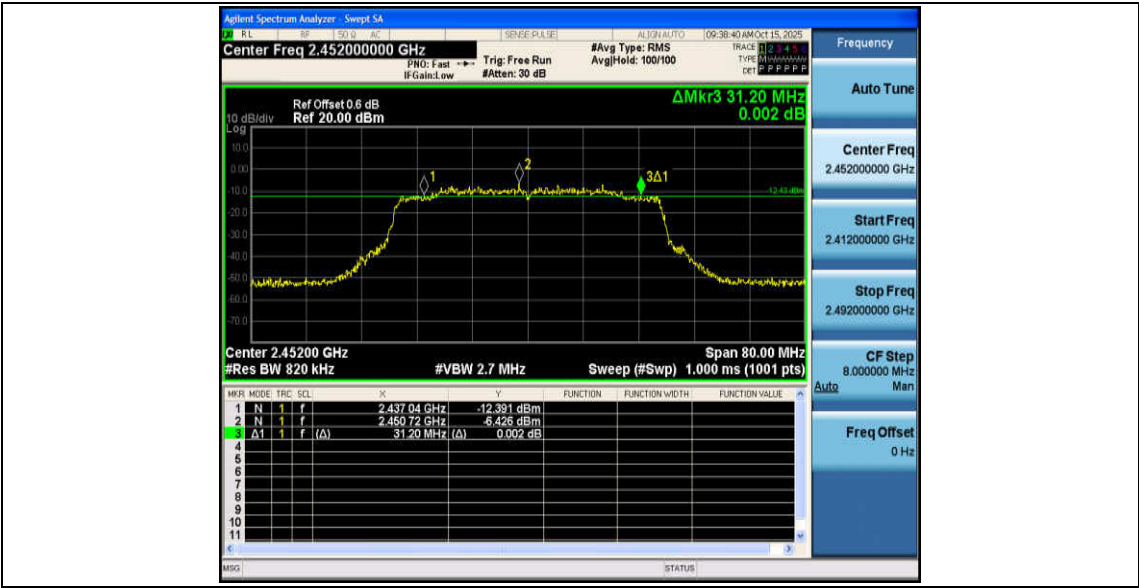
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



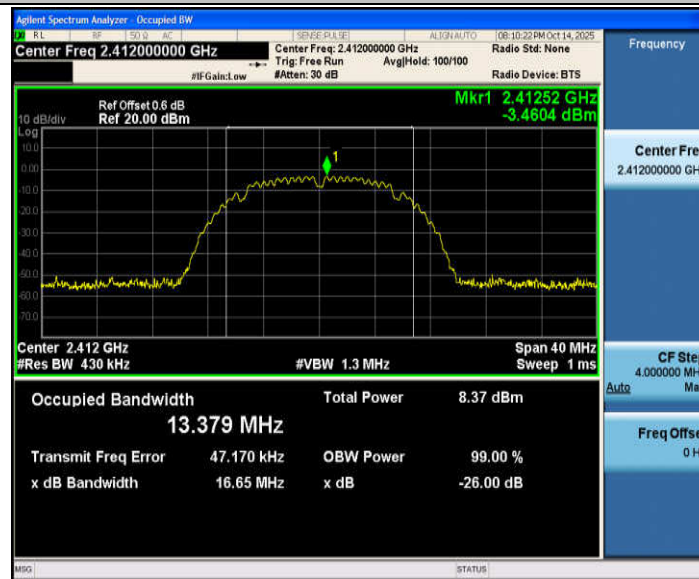
Appendix B: Occupied Channel Bandwidth

Test Result

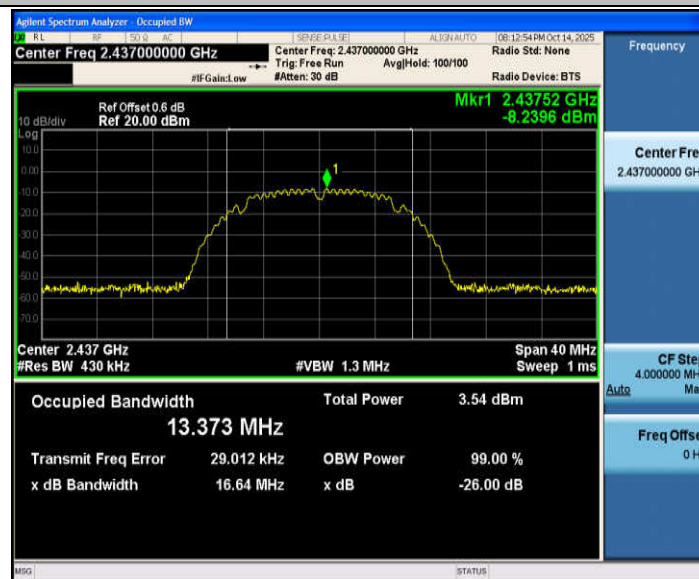
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.379	2405.3577	2418.7367	---	---
		2437	13.373	2430.3425	2443.7155	---	---
		2462	13.391	2455.3216	2468.7126	---	---
11G	Ant1	2412	16.821	2403.6571	2420.4781	---	---
		2437	16.800	2428.6496	2445.4496	---	---
		2462	16.844	2453.6242	2470.4682	---	---
11N20SISO	Ant1	2412	17.822	2403.1045	2420.9265	---	---
		2437	17.894	2428.0630	2445.9570	---	---
		2462	17.884	2453.0497	2470.9337	---	---
11N40SISO	Ant1	2422	35.936	2404.1234	2440.0594	---	---
		2437	35.946	2419.0996	2455.0456	---	---
		2452	35.954	2434.1022	2470.0562	---	---
11AX20SISO	Ant1	2412	18.968	2402.5648	2421.5328	---	---
		2437	18.976	2427.5407	2446.5167	---	---
		2462	18.950	2452.5465	2471.4965	---	---
11AX40SISO	Ant1	2422	37.496	2403.3589	2440.8549	---	---
		2437	37.490	2418.3468	2455.8368	---	---
		2452	37.527	2433.3368	2470.8638	---	---

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2462



11N20SISO_Ant1_2412



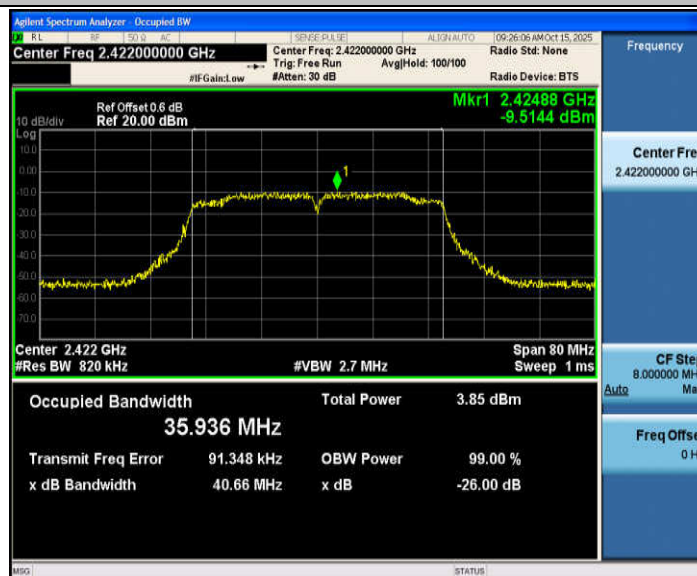
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



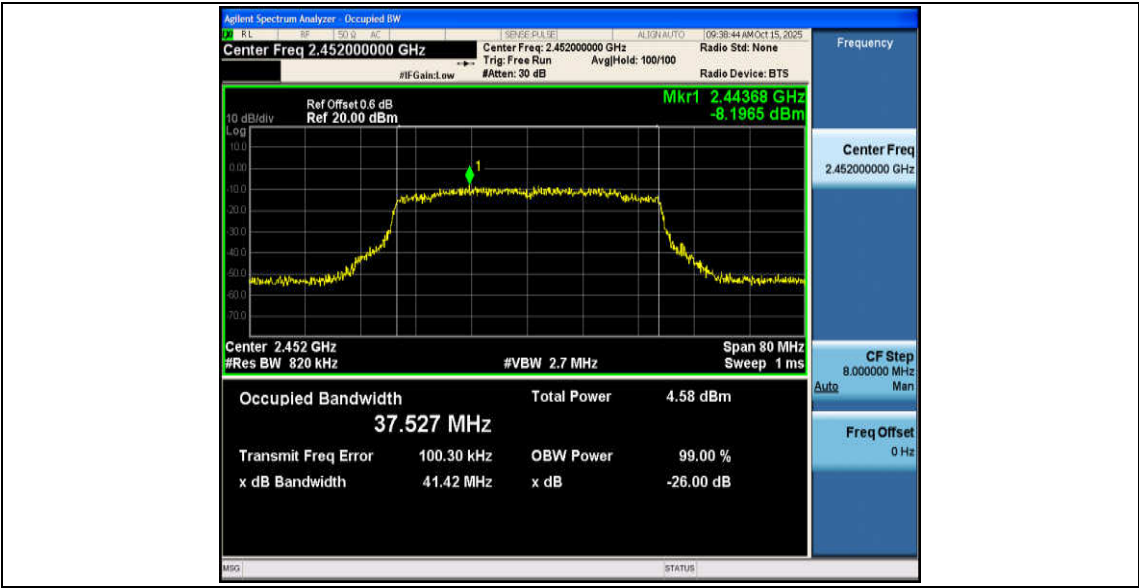
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_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	3.07	≤30.00	PASS
		2437	3.41	≤30.00	PASS
		2462	3.30	≤30.00	PASS
11G	Ant1	2412	5.59	≤30.00	PASS
		2437	3.59	≤30.00	PASS
		2462	3.62	≤30.00	PASS
11N20SISO	Ant1	2412	3.14	≤30.00	PASS
		2437	3.83	≤30.00	PASS
		2462	3.76	≤30.00	PASS
11N40SISO	Ant1	2422	4.13	≤30.00	PASS
		2437	4.42	≤30.00	PASS
		2452	4.18	≤30.00	PASS
11AX20SISO	Ant1	2412	3.82	≤30.00	PASS
		2437	4.19	≤30.00	PASS
		2462	4.08	≤30.00	PASS
11AX40SISO	Ant1	2422	4.21	≤30.00	PASS
		2437	4.50	≤30.00	PASS
		2452	4.19	≤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	-23.19	≤8.00	PASS
		2437	-22.28	≤8.00	PASS
		2462	-22.70	≤8.00	PASS
11G	Ant1	2412	-24.19	≤8.00	PASS
		2437	-27.36	≤8.00	PASS
		2462	-27.23	≤8.00	PASS
11N20SISO	Ant1	2412	-27.15	≤8.00	PASS
		2437	-26.58	≤8.00	PASS
		2462	-26.59	≤8.00	PASS
11N40SISO	Ant1	2422	-28.84	≤8.00	PASS
		2437	-28.91	≤8.00	PASS
		2452	-29.76	≤8.00	PASS
11AX20SISO	Ant1	2412	-28.76	≤8.00	PASS
		2437	-28.09	≤8.00	PASS
		2462	-28.01	≤8.00	PASS
11AX40SISO	Ant1	2422	-31.20	≤8.00	PASS
		2437	-30.41	≤8.00	PASS
		2452	-30.77	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



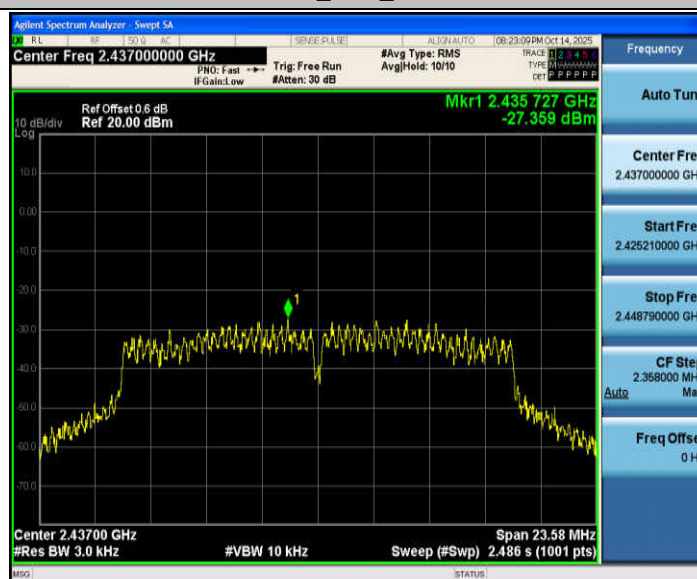
11B_Ant1_2462



11G_Ant1_2412



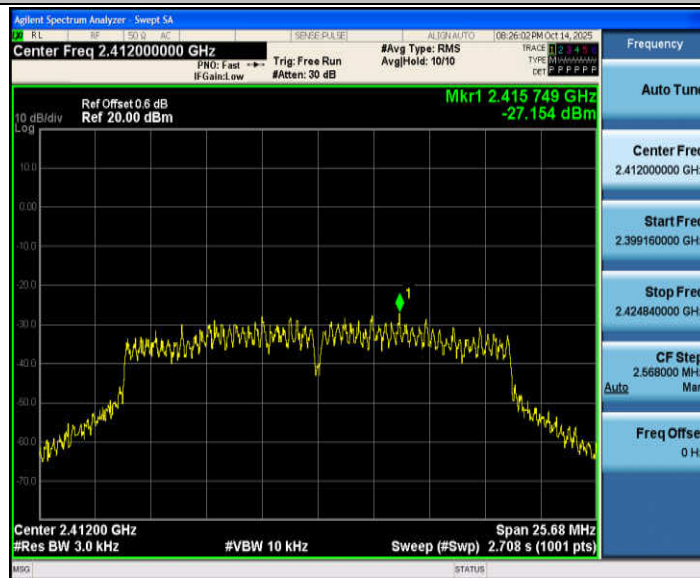
11G_Ant1_2437



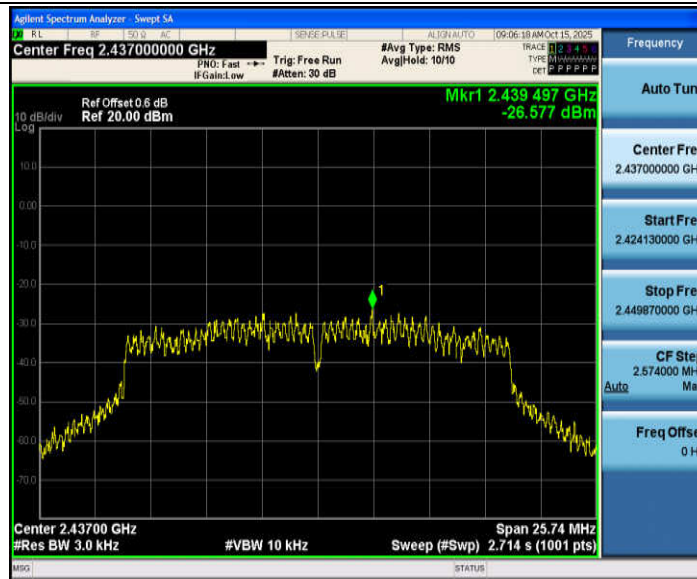
11G_Ant1_2462



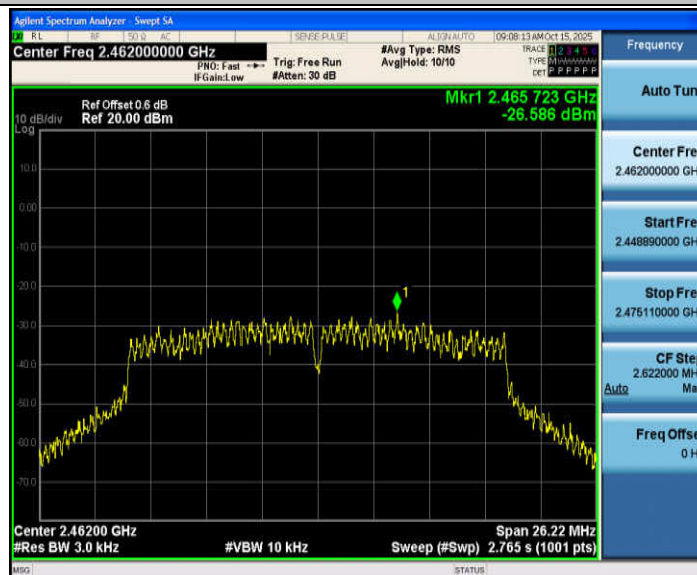
11N20SISO_Ant1_2412



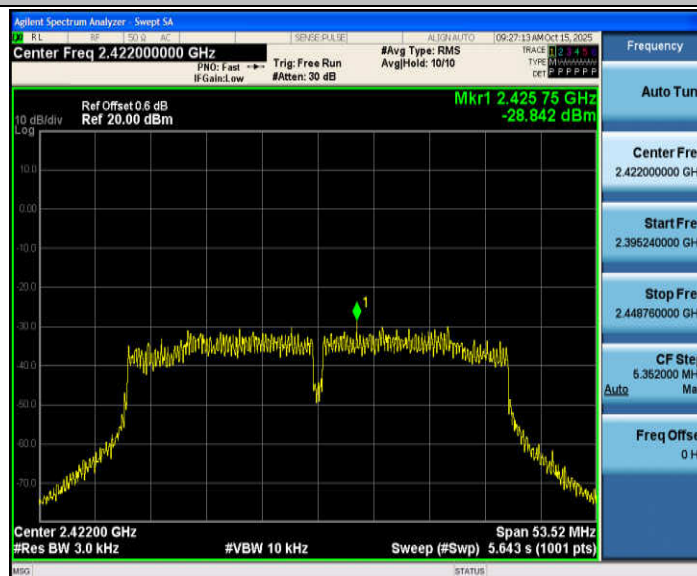
11N20SISO_Ant1_2437



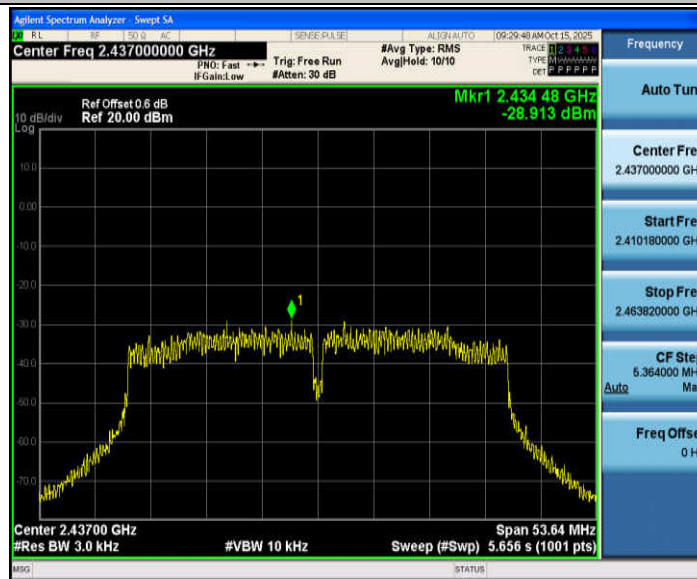
11N20SISO_Ant1_2462



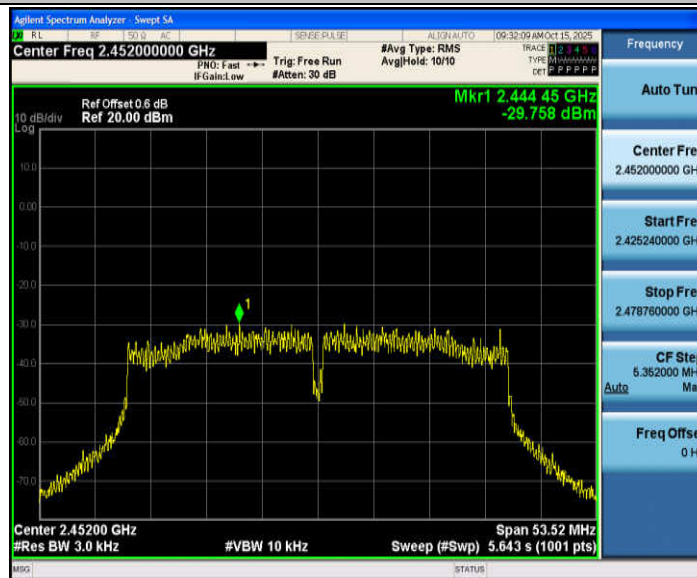
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



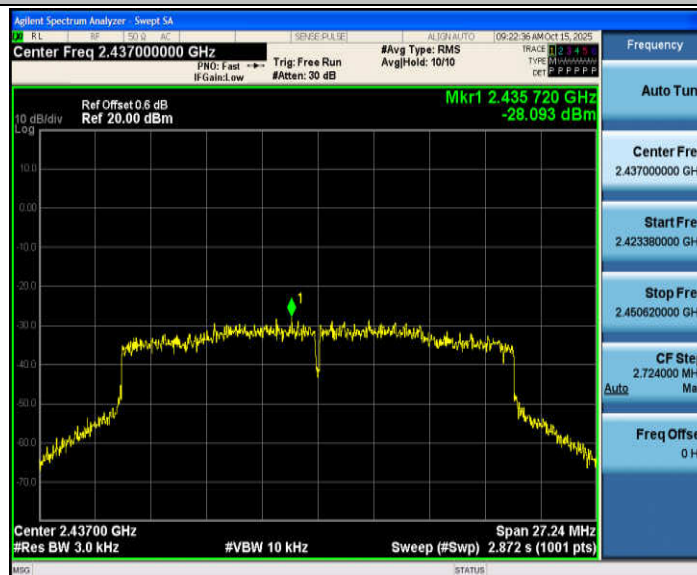
11N40SISO_Ant1_2452



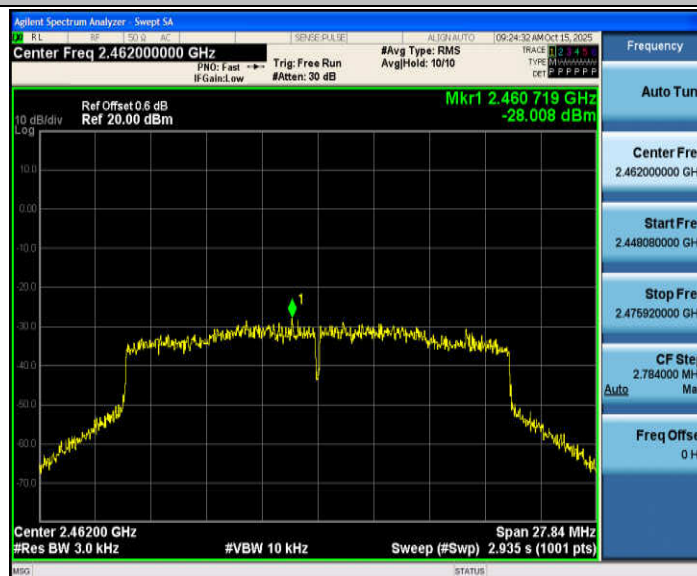
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



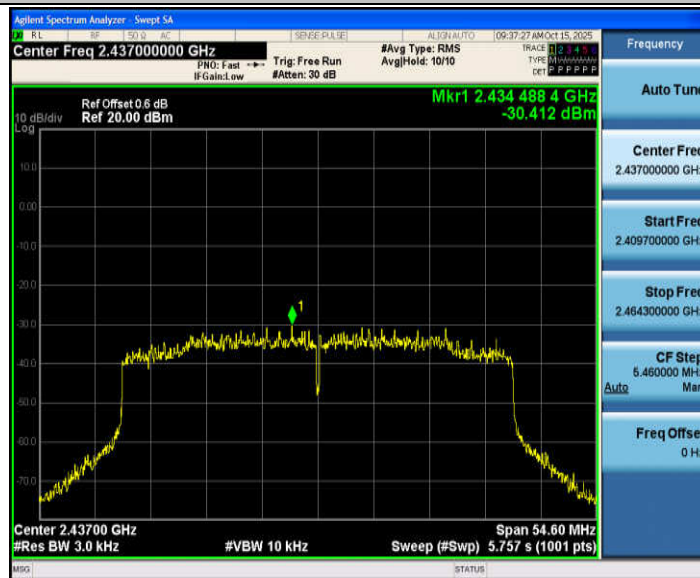
11AX20SISO_Ant1_2462



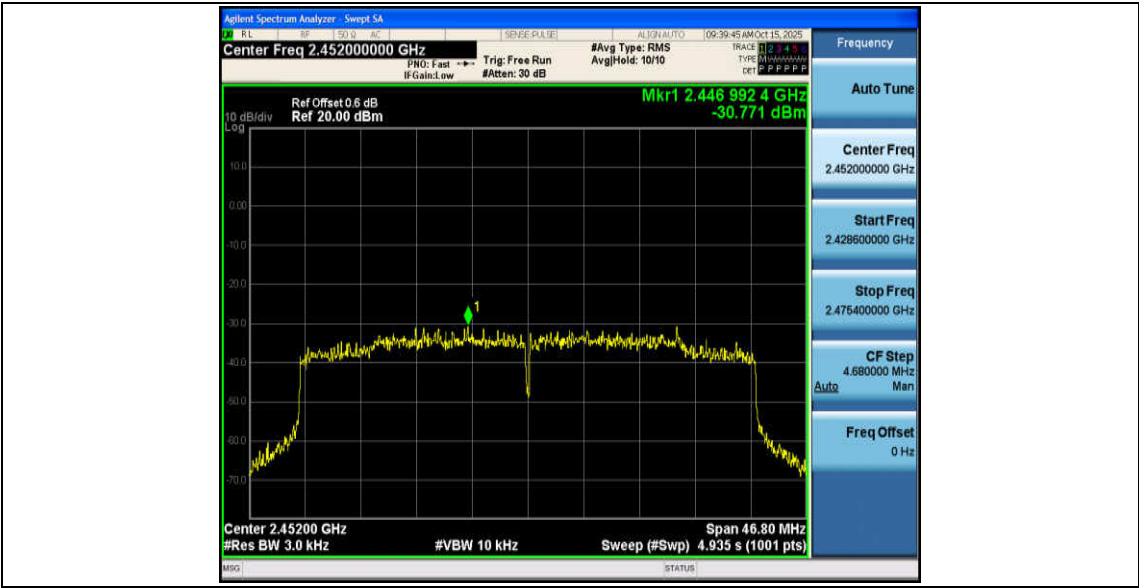
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



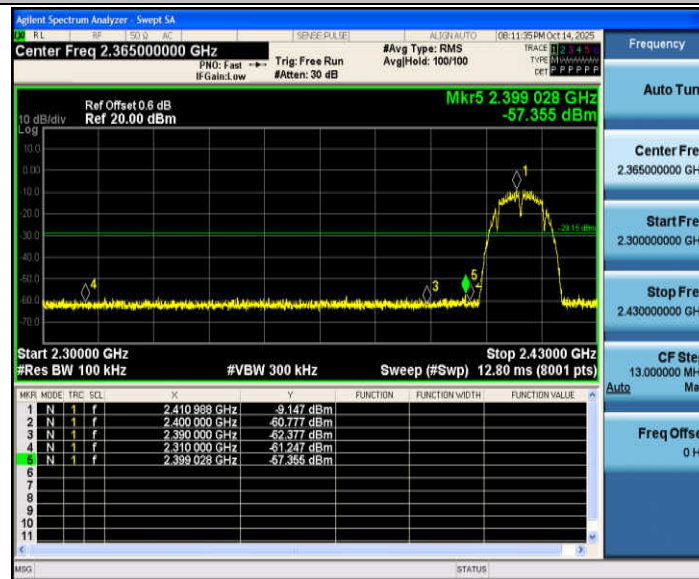
Appendix E: Band edge measurements

Test Result

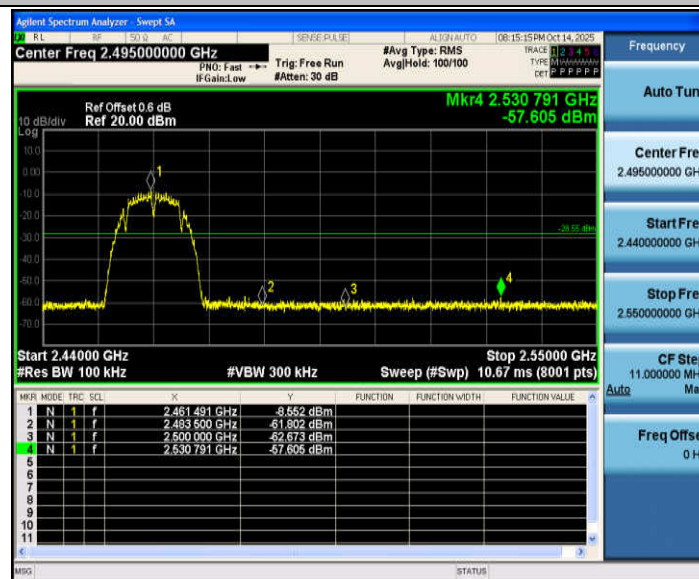
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-9.15	-57.36	≤-29.15	PASS
		High	2462	-8.55	-57.61	≤-28.55	PASS
11G	Ant1	Low	2412	-10.09	-41	≤-30.09	PASS
		High	2462	-12.02	-57.84	≤-32.02	PASS
11N20SISO	Ant1	Low	2412	-12.52	-42.35	≤-32.52	PASS
		High	2462	-11.78	-57.6	≤-31.78	PASS
11N40SISO	Ant1	Low	2422	-15.18	-47.27	≤-35.18	PASS
		High	2452	-15.14	-58.01	≤-35.14	PASS
11AX20SISO	Ant1	Low	2412	-12.25	-43.6	≤-32.25	PASS
		High	2462	-12.27	-57.86	≤-32.27	PASS
11AX40SISO	Ant1	Low	2422	-15.43	-46.74	≤-35.43	PASS
		High	2452	-15.18	-57.43	≤-35.18	PASS

Test Graphs

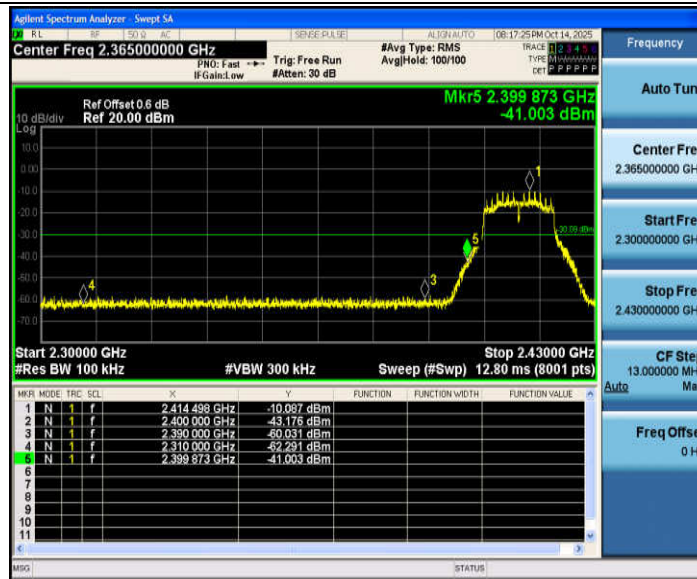
11B_Ant1_Low_2412



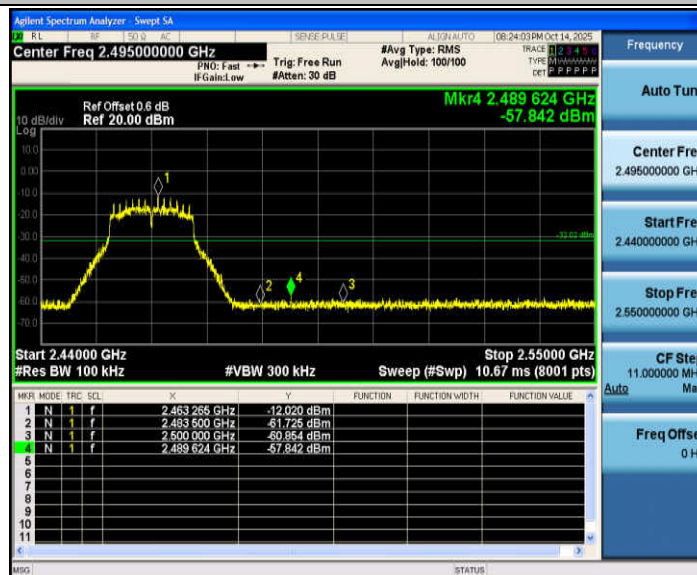
11B_Ant1_High_2462



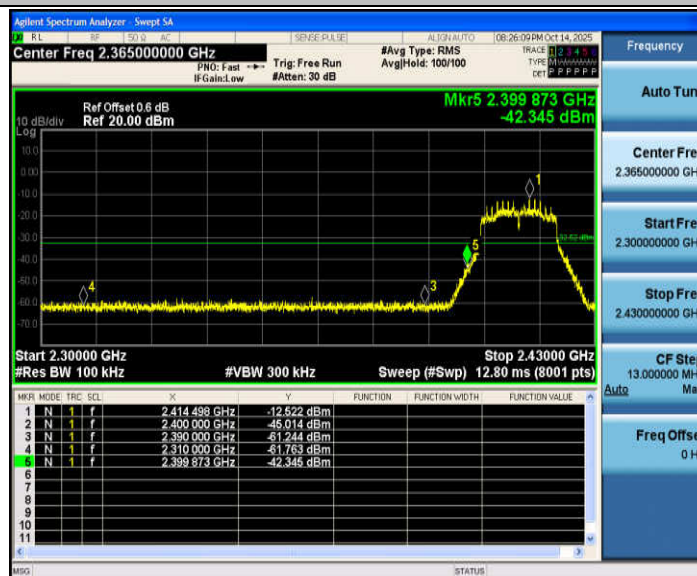
11G_Ant1_Low_2412



11G_Ant1_High_2462



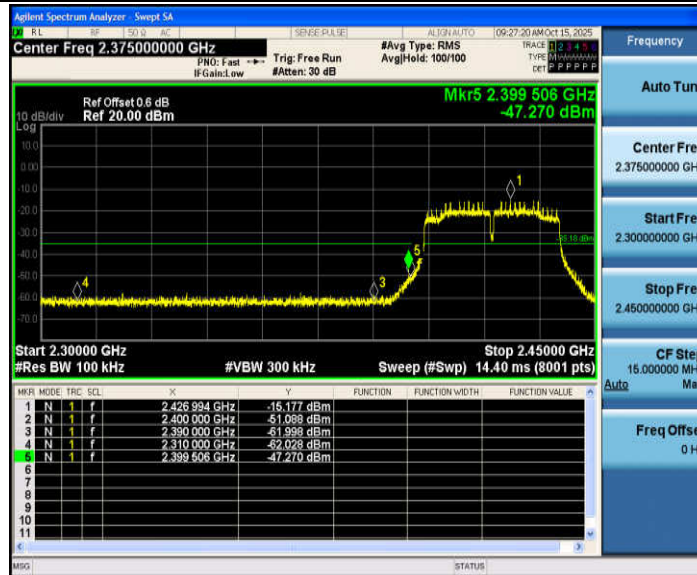
11N20SISO_Ant1_Low_2412



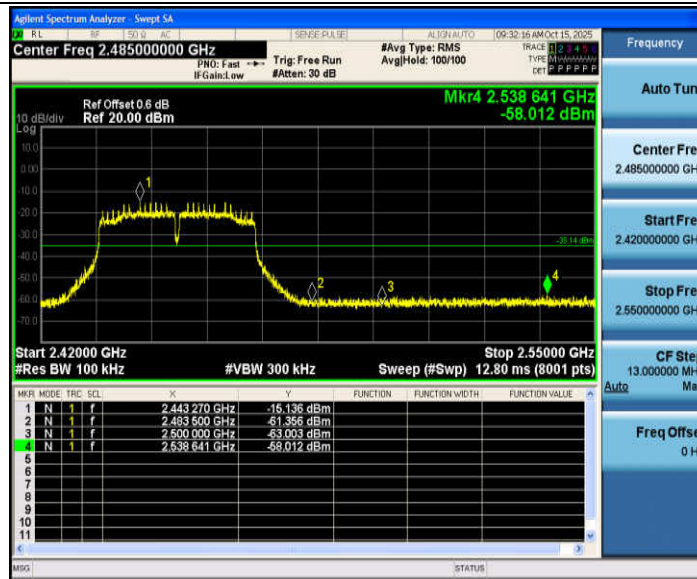
11N20SISO_Ant1_High_2462



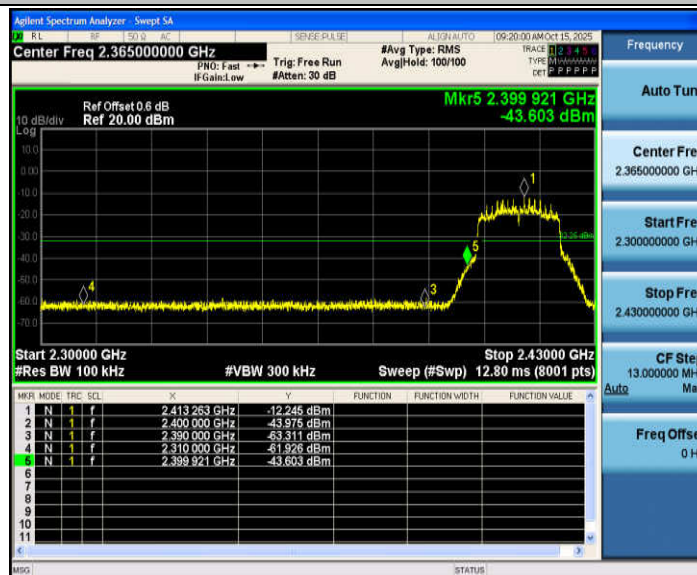
11N40SISO_Ant1_Low_2422



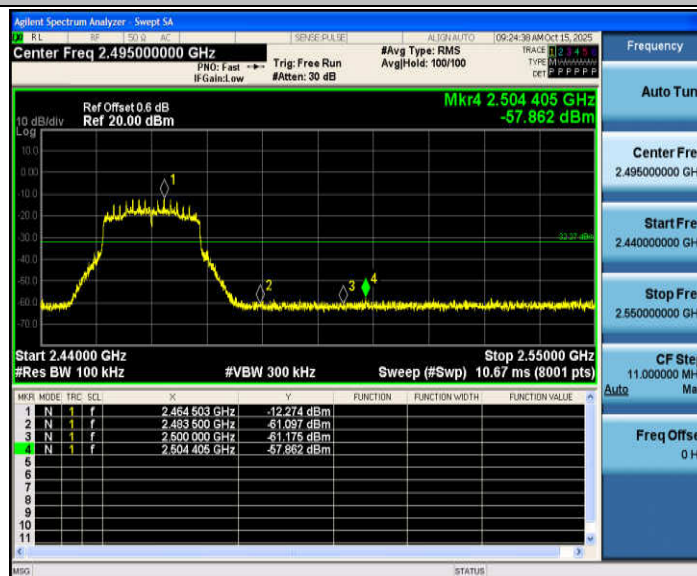
11N40SISO_Ant1_High_2452



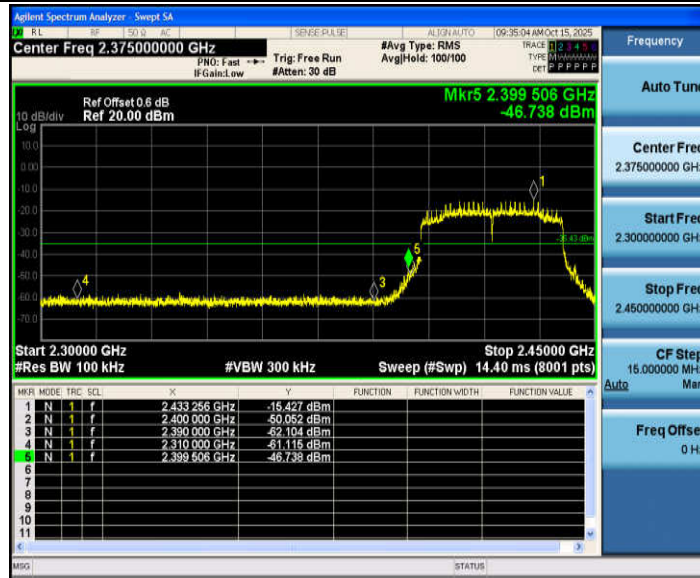
11AX20SISO_Ant1_Low_2412



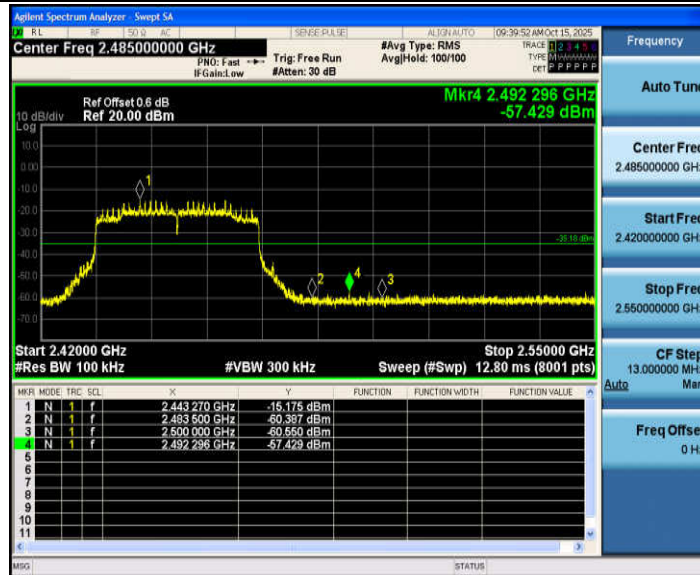
11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_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	-10.14	-10.14	---	PASS
			30~1000	-10.14	-68.15	≤-30.14	PASS
			1000~26500	-10.14	-54.4	≤-30.14	PASS
		2437	Reference	-9.06	-9.06	---	PASS
			30~1000	-9.06	-67.53	≤-29.06	PASS
			1000~26500	-9.06	-54.57	≤-29.06	PASS
		2462	Reference	-8.66	-8.66	---	PASS
			30~1000	-8.66	-67.96	≤-28.66	PASS
			1000~26500	-8.66	-54.07	≤-28.66	PASS
11G	Ant1	2412	Reference	-10.25	-10.25	---	PASS
			30~1000	-10.25	-67.98	≤-30.25	PASS
			1000~26500	-10.25	-54.81	≤-30.25	PASS
		2437	Reference	-8.55	-8.55	---	PASS
			30~1000	-8.55	-68.15	≤-28.55	PASS
			1000~26500	-8.55	-55.07	≤-28.55	PASS
		2462	Reference	-12.90	-12.90	---	PASS
			30~1000	-12.90	-67.91	≤-32.9	PASS
			1000~26500	-12.90	-54.43	≤-32.9	PASS
11N20SISO	Ant1	2412	Reference	-12.79	-12.79	---	PASS
			30~1000	-12.79	-68.26	≤-32.79	PASS
			1000~26500	-12.79	-55.84	≤-32.79	PASS
		2437	Reference	-12.29	-12.29	---	PASS
			30~1000	-12.29	-68.36	≤-32.29	PASS
			1000~26500	-12.29	-55.13	≤-32.29	PASS
		2462	Reference	-13.41	-13.41	---	PASS
			30~1000	-13.41	-67.04	≤-33.41	PASS
			1000~26500	-13.41	-54.99	≤-33.41	PASS
11N40SISO	Ant1	2422	Reference	-15.72	-15.72	---	PASS
			30~1000	-15.72	-67.69	≤-35.72	PASS
			1000~26500	-15.72	-54.97	≤-35.72	PASS
		2437	Reference	-15.37	-15.37	---	PASS
			30~1000	-15.37	-67.25	≤-35.37	PASS
			1000~26500	-15.37	-54.11	≤-35.37	PASS
		2452	Reference	-15.40	-15.40	---	PASS
			30~1000	-15.40	-67.4	≤-35.4	PASS
			1000~26500	-15.40	-54.65	≤-35.4	PASS
11AX20SISO	Ant1	2412	Reference	-13.28	-13.28	---	PASS

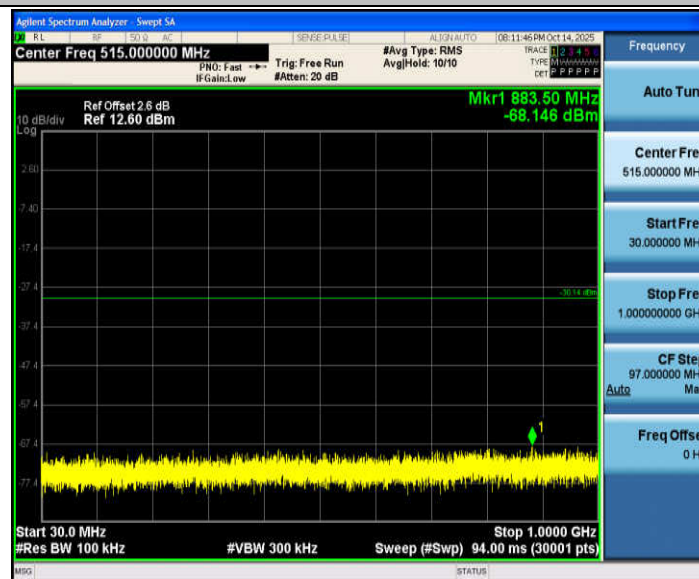
			30~1000	-13.28	-68.11	≤-33.28	PASS
			1000~26500	-13.28	-54.64	≤-33.28	PASS
		2437	Reference	-14.41	-14.41	---	PASS
			30~1000	-14.41	-67.55	≤-34.41	PASS
			1000~26500	-14.41	-54.84	≤-34.41	PASS
		2462	Reference	-12.29	-12.29	---	PASS
			30~1000	-12.29	-67.69	≤-32.29	PASS
			1000~26500	-12.29	-54.66	≤-32.29	PASS
11AX40SISO	Ant1	2422	Reference	-16.15	-16.15	---	PASS
			30~1000	-16.15	-67.53	≤-36.15	PASS
			1000~26500	-16.15	-54.95	≤-36.15	PASS
		2437	Reference	-15.45	-15.45	---	PASS
			30~1000	-15.45	-68.15	≤-35.45	PASS
			1000~26500	-15.45	-54.62	≤-35.45	PASS
		2452	Reference	-15.23	-15.23	---	PASS
			30~1000	-15.23	-66.92	≤-35.23	PASS
			1000~26500	-15.23	-53.99	≤-35.23	PASS

Test Graphs

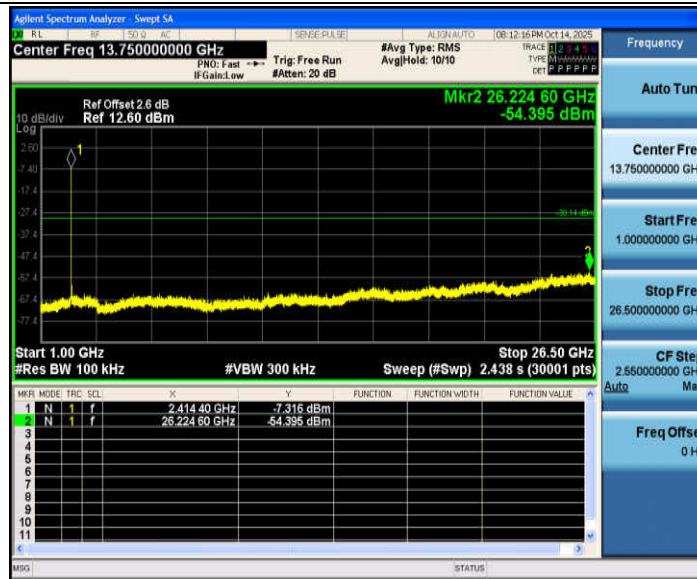
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



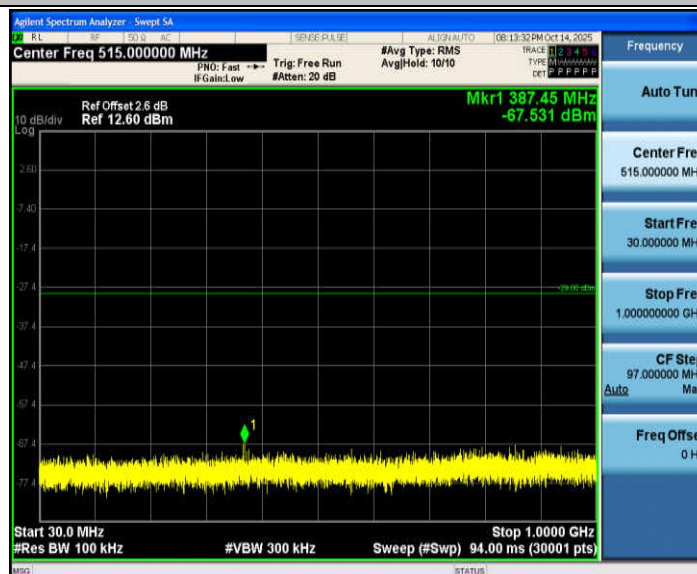
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



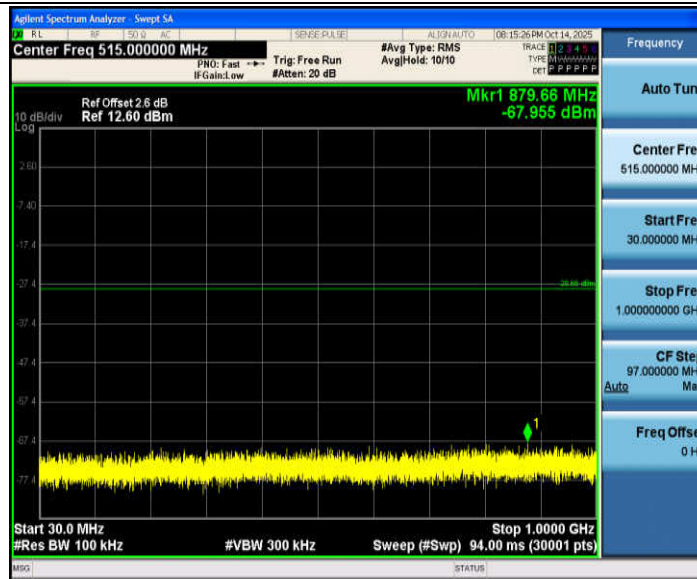
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



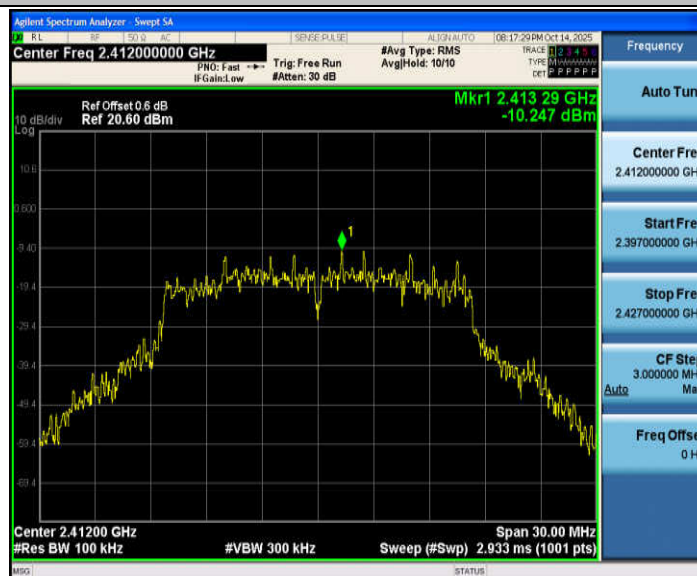
11B_Ant1_2462_30~1000



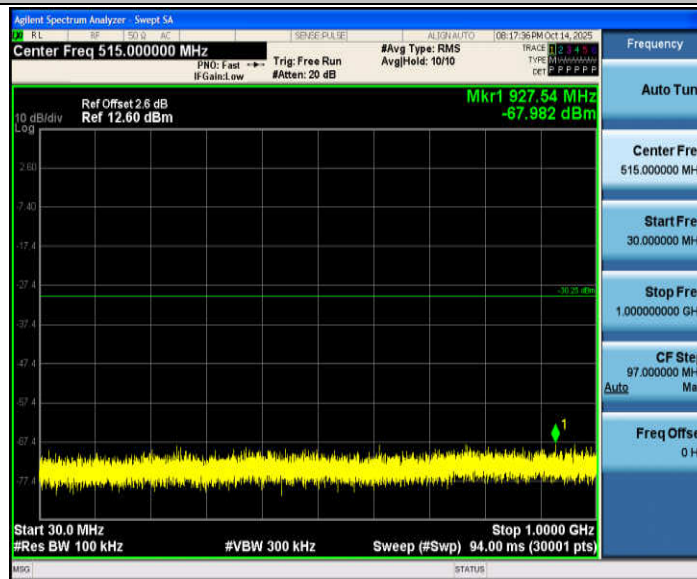
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



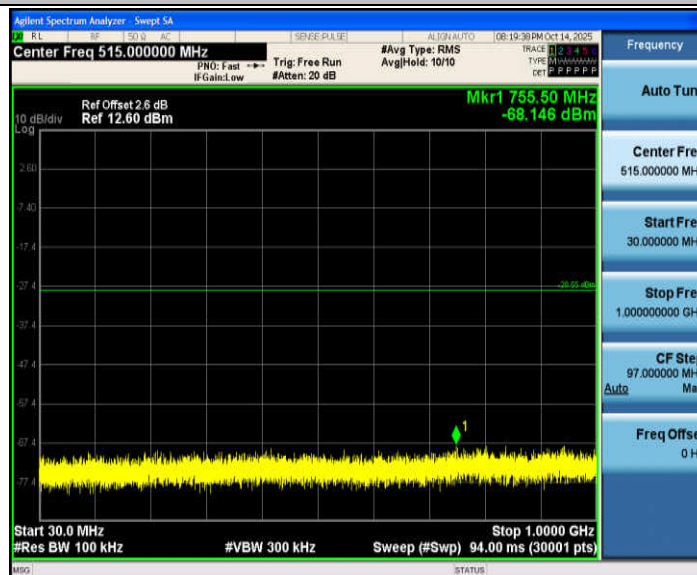
11G_Ant1_2412_1000~26500



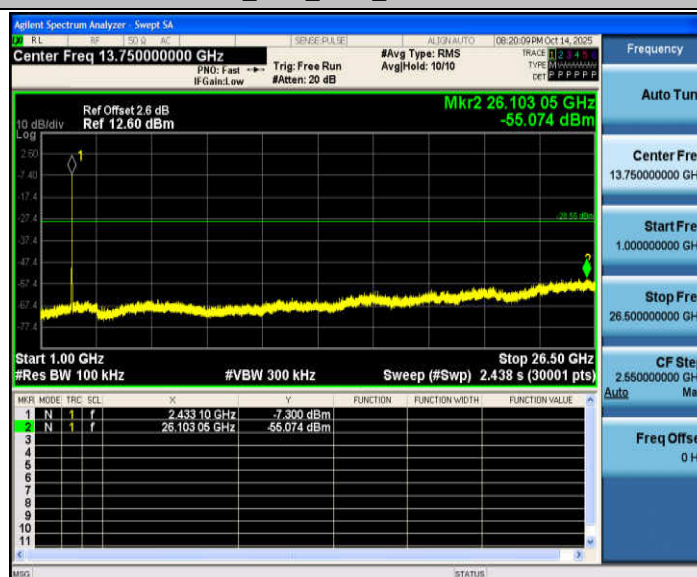
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



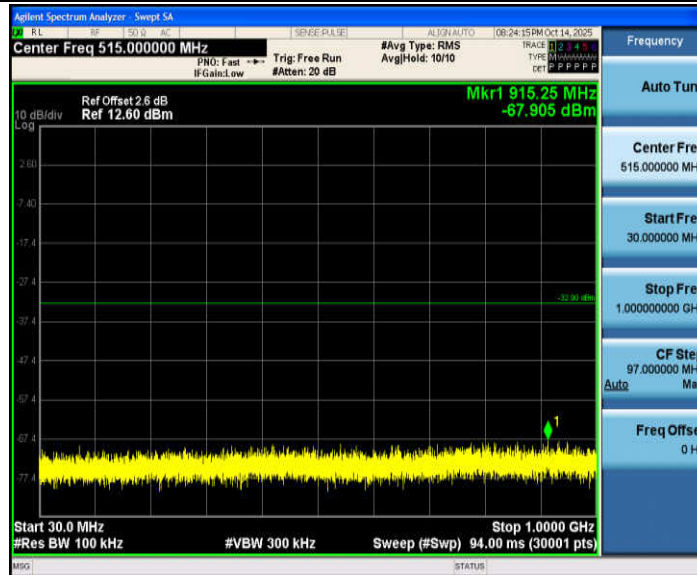
11G_Ant1_2437_1000~26500



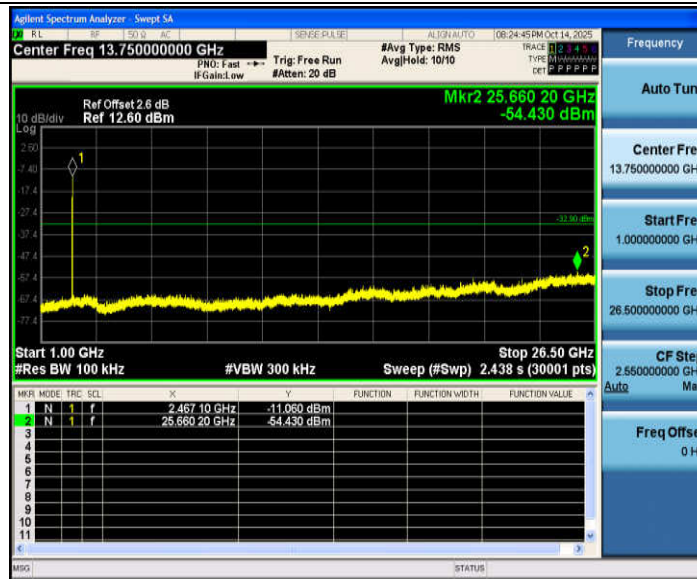
11G_Ant1_2462_0~Reference



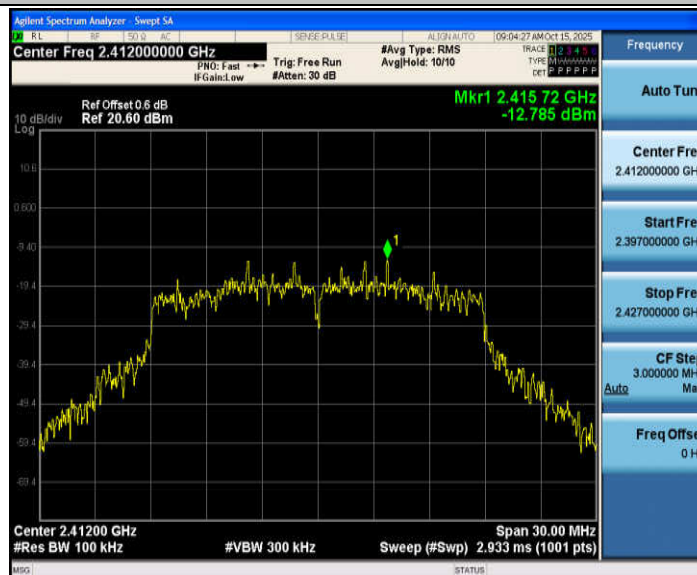
11G_Ant1_2462_30~1000



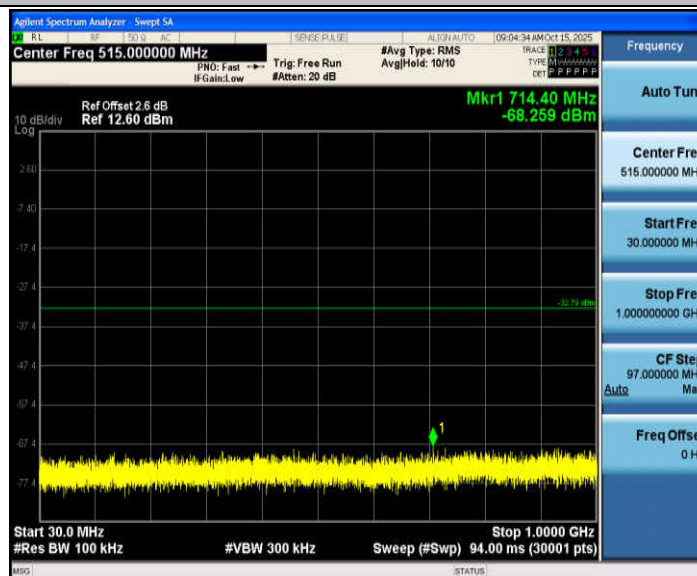
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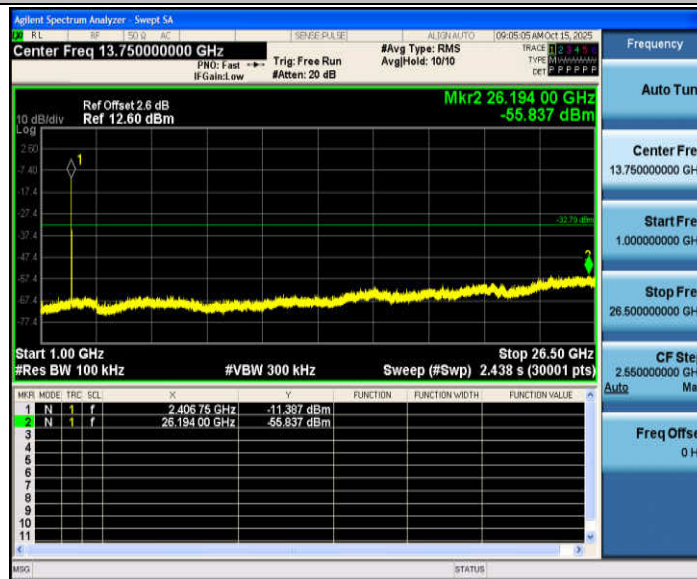
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



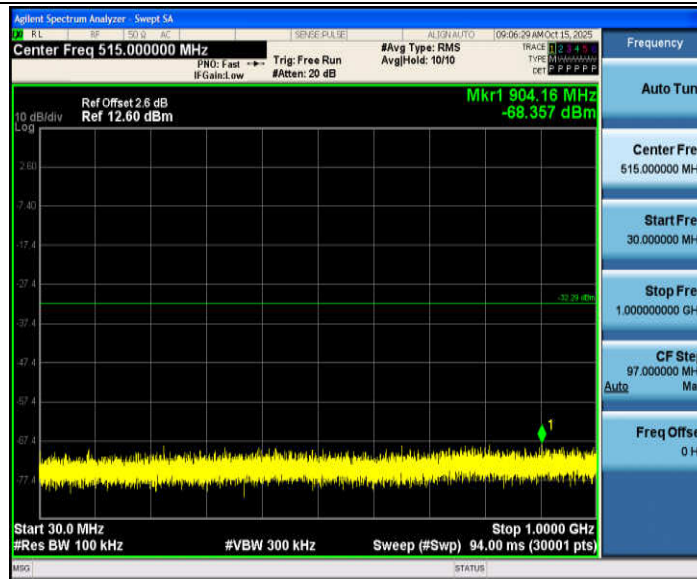
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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



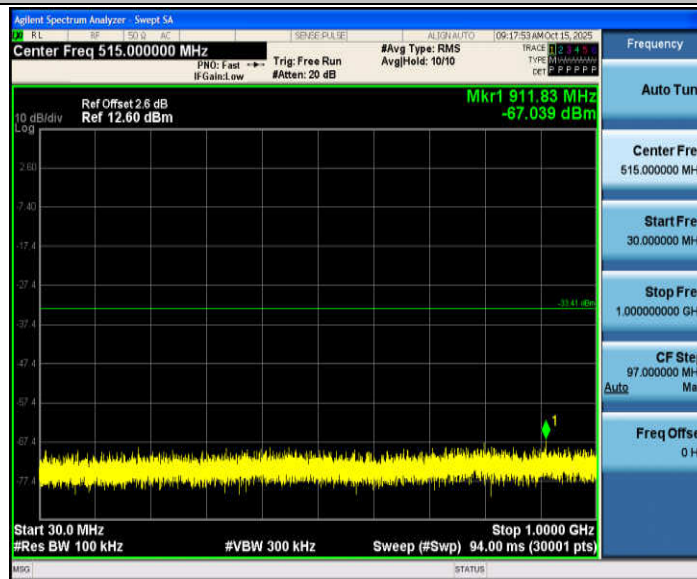
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11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference