

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A8W5-S7PRIME

Company : BAODE INTERNATIONAL LIMITED

EUT : Smart Media Player

Model Number : S7 Prime

Report No. : CTA25120301203

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	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	16.160	2404.000	2420.160	0.5	PASS
		2437	16.040	2429.120	2445.160	0.5	PASS
		2462	15.800	2454.000	2469.800	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.160	2428.320	2445.480	0.5	PASS
		2462	17.200	2453.440	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.160	2439.760	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.680	2434.240	2469.920	0.5	PASS
11AX20SISO	Ant1	2412	17.400	2403.320	2420.720	0.5	PASS
		2437	17.360	2428.440	2445.800	0.5	PASS
		2462	17.240	2453.360	2470.600	0.5	PASS
11AX40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.840	2419.160	2455.000	0.5	PASS
		2452	35.680	2434.240	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



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



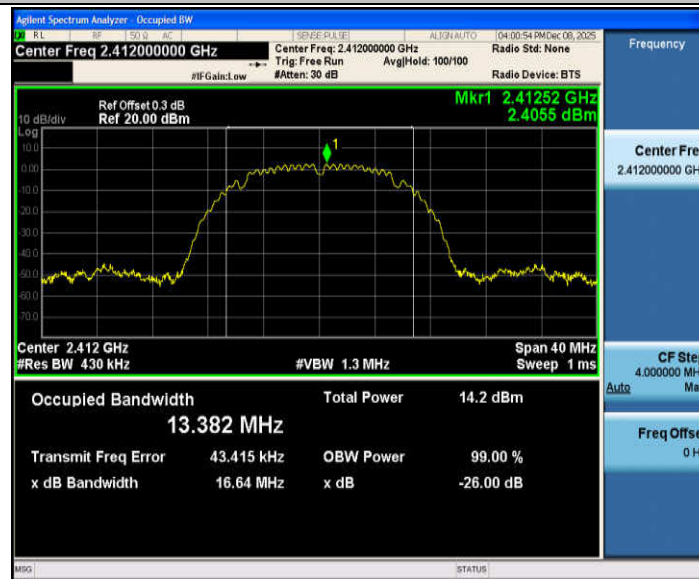
Appendix B: Occupied Channel Bandwidth

Test Result

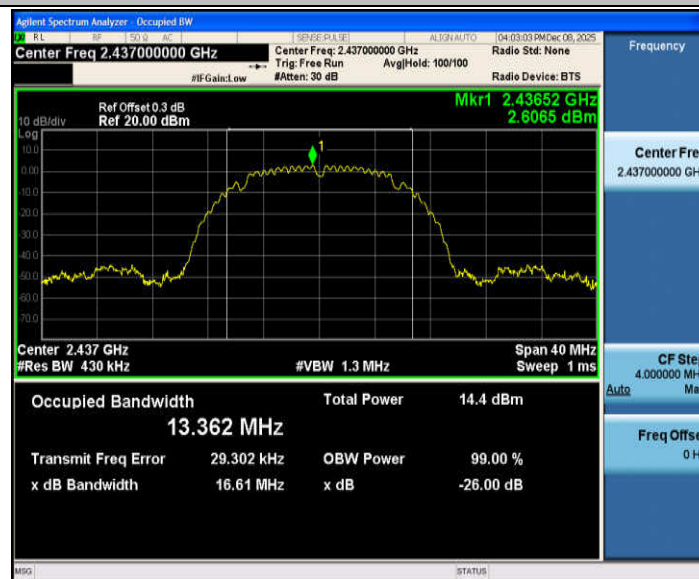
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.382	2405.3524	2418.7344	---	---
		2437	13.362	2430.3483	2443.7103	---	---
		2462	13.381	2455.3250	2468.7060	---	---
11G	Ant1	2412	16.745	2403.6850	2420.4300	---	---
		2437	16.784	2428.6454	2445.4294	---	---
		2462	16.677	2453.6935	2470.3705	---	---
11N20SISO	Ant1	2412	17.770	2403.1705	2420.9405	---	---
		2437	17.843	2428.1303	2445.9733	---	---
		2462	17.789	2453.1252	2470.9142	---	---
11N40SISO	Ant1	2422	35.983	2404.0741	2440.0571	---	---
		2437	36.016	2419.0881	2455.1041	---	---
		2452	36.022	2434.0563	2470.0783	---	---
11AX20SISO	Ant1	2412	17.778	2403.1424	2420.9204	---	---
		2437	17.806	2428.1339	2445.9399	---	---
		2462	17.906	2453.0623	2470.9683	---	---
11AX40SISO	Ant1	2422	36.025	2404.0775	2440.1025	---	---
		2437	36.052	2419.0415	2455.0935	---	---
		2452	36.115	2434.0623	2470.1773	---	---

Test Graphs

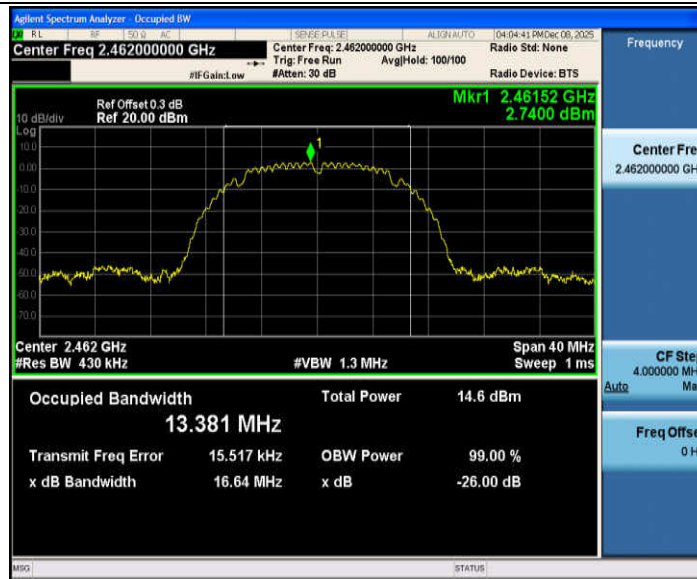
11B_Ant1_2412



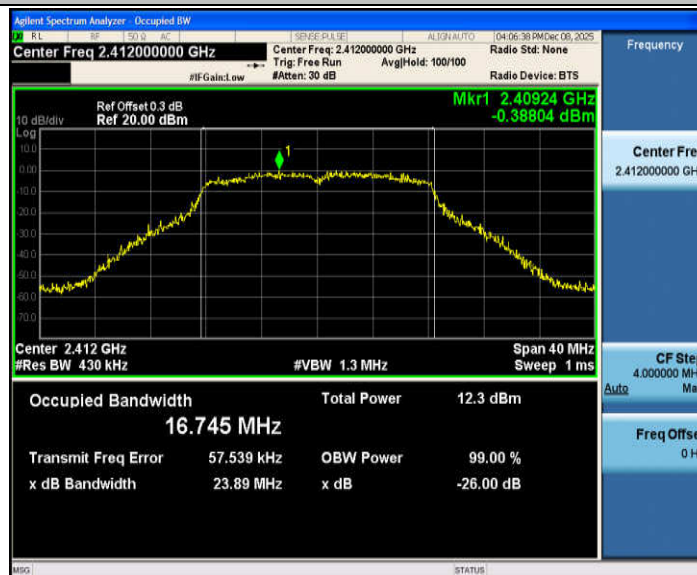
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



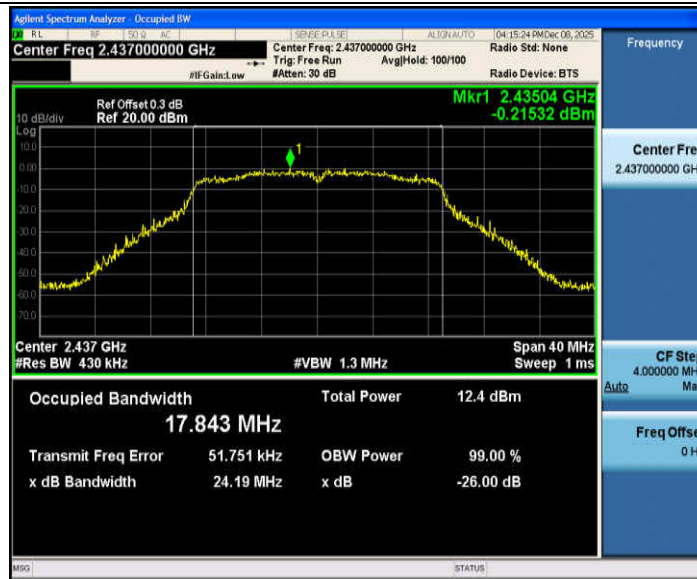
11G_Ant1_2462



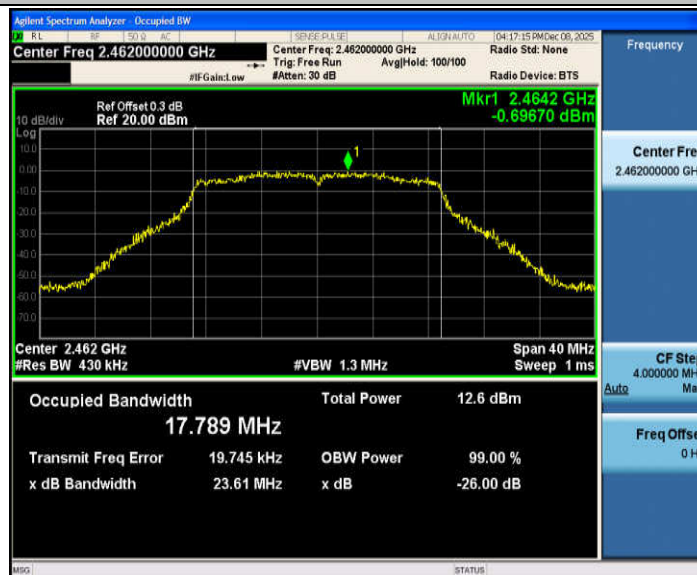
11N20SISO_Ant1_2412



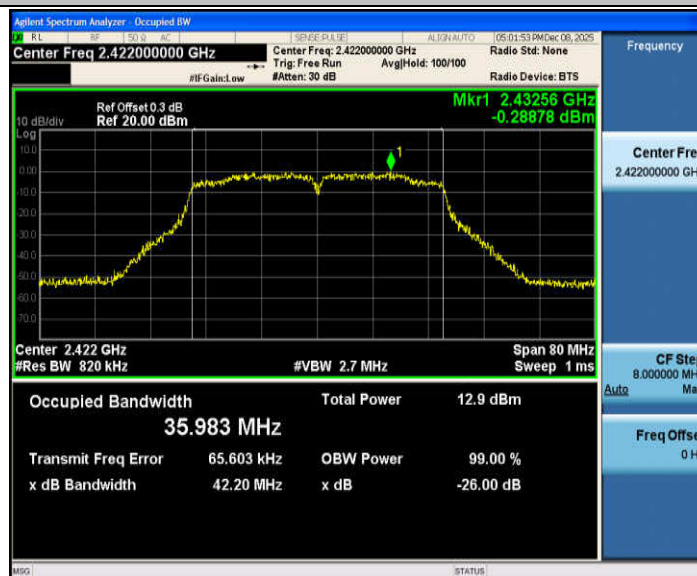
11N20SISO_Ant1_2437



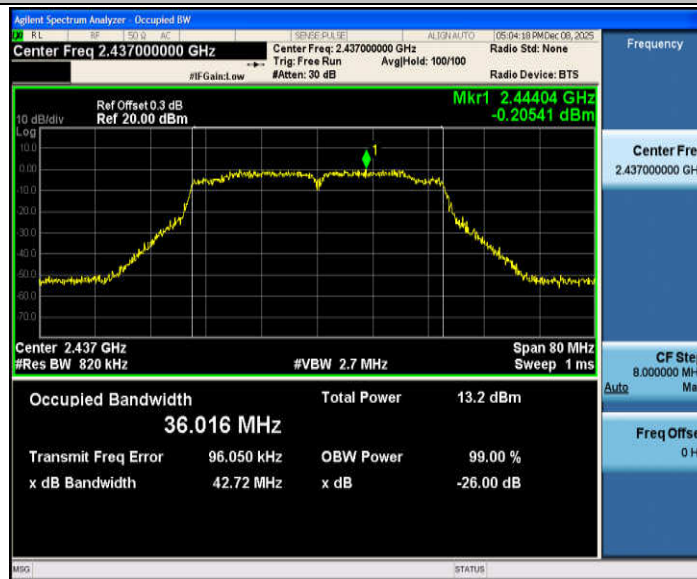
11N20SISO_Ant1_2462



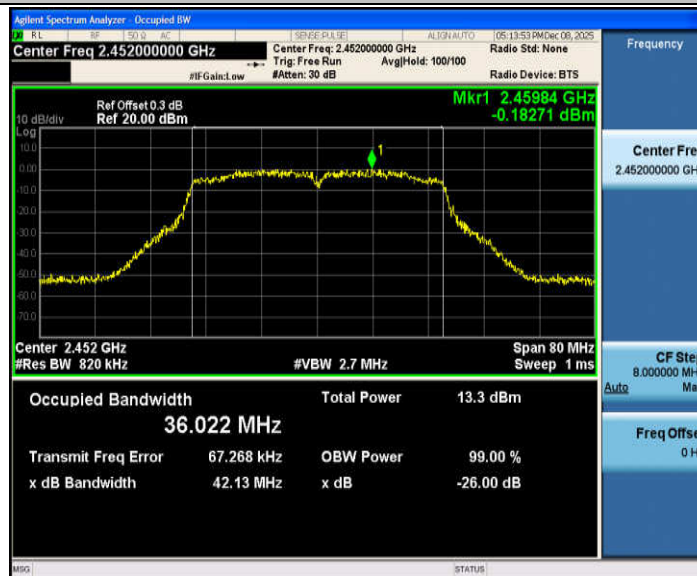
11N40SISO_Ant1_2422



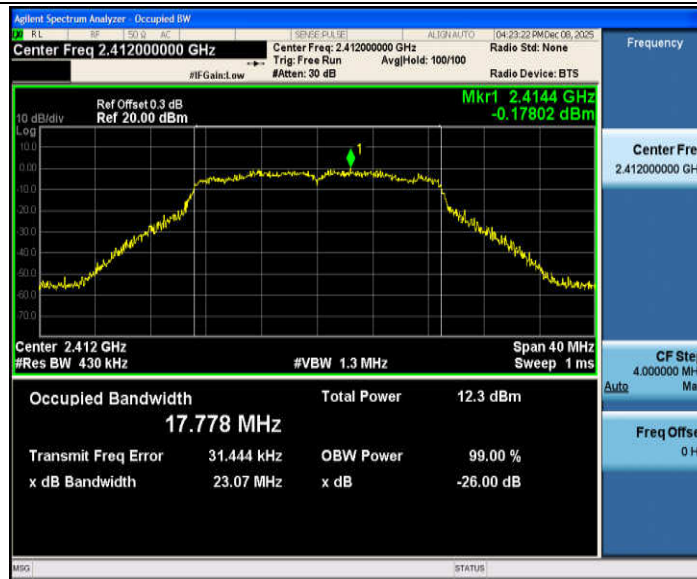
11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



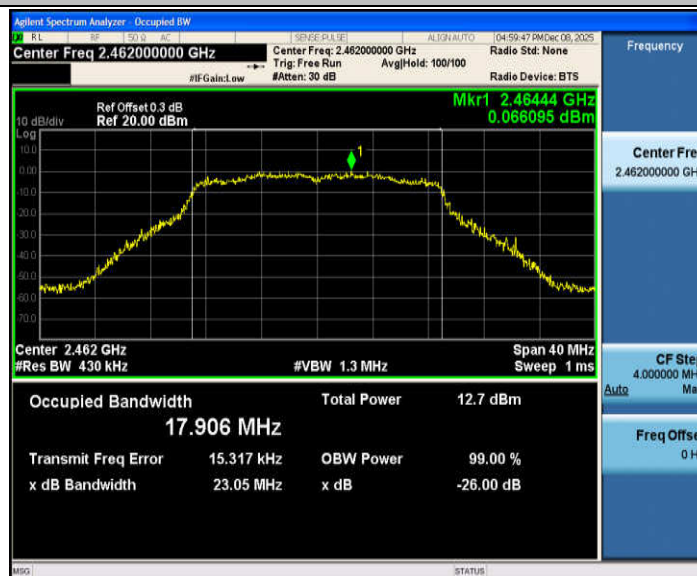
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



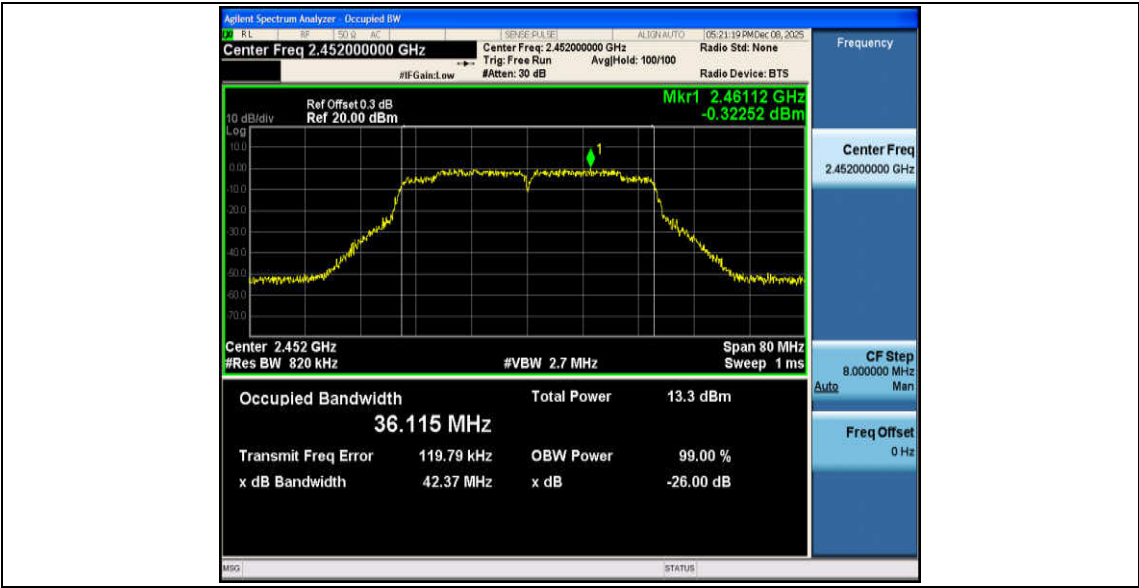
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.01	≤30.00	PASS
		2437	14.28	≤30.00	PASS
		2462	14.43	≤30.00	PASS
11G	Ant1	2412	12.99	≤30.00	PASS
		2437	13.05	≤30.00	PASS
		2462	13.35	≤30.00	PASS
11N20SISO	Ant1	2412	12.96	≤30.00	PASS
		2437	12.96	≤30.00	PASS
		2462	13.34	≤30.00	PASS
11N40SISO	Ant1	2422	13.20	≤30.00	PASS
		2437	13.41	≤30.00	PASS
		2452	13.54	≤30.00	PASS
11AX20SISO	Ant1	2412	12.90	≤30.00	PASS
		2437	13.12	≤30.00	PASS
		2462	13.28	≤30.00	PASS
11AX40SISO	Ant1	2422	13.15	≤30.00	PASS
		2437	13.57	≤30.00	PASS
		2452	13.30	≤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	-11.90	≤8.00	PASS
		2437	-11.77	≤8.00	PASS
		2462	-11.33	≤8.00	PASS
11G	Ant1	2412	-16.84	≤8.00	PASS
		2437	-17.91	≤8.00	PASS
		2462	-16.99	≤8.00	PASS
11N20SISO	Ant1	2412	-17.66	≤8.00	PASS
		2437	-17.83	≤8.00	PASS
		2462	-17.82	≤8.00	PASS
11N40SISO	Ant1	2422	-20.57	≤8.00	PASS
		2437	-20.08	≤8.00	PASS
		2452	-19.85	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.62	≤8.00	PASS
		2437	-16.51	≤8.00	PASS
		2462	-17.78	≤8.00	PASS
11AX40SISO	Ant1	2422	-20.65	≤8.00	PASS
		2437	-20.46	≤8.00	PASS
		2452	-19.97	≤8.00	PASS

Test Graphs

11B_Ant1_2412



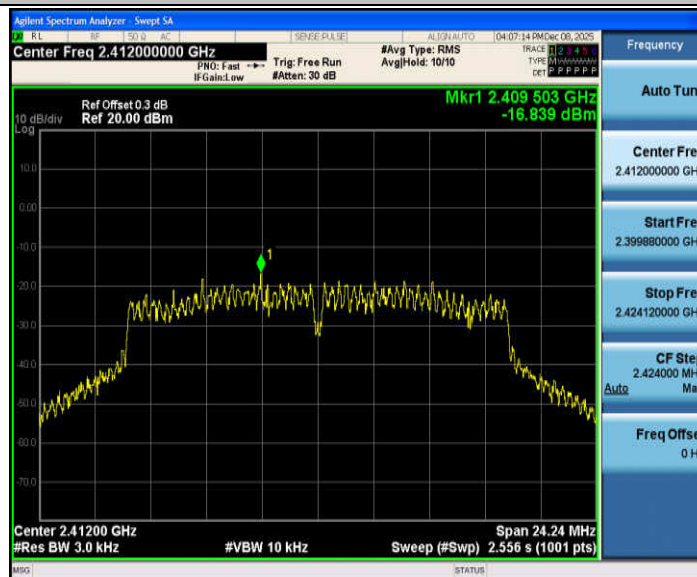
11B_Ant1_2437



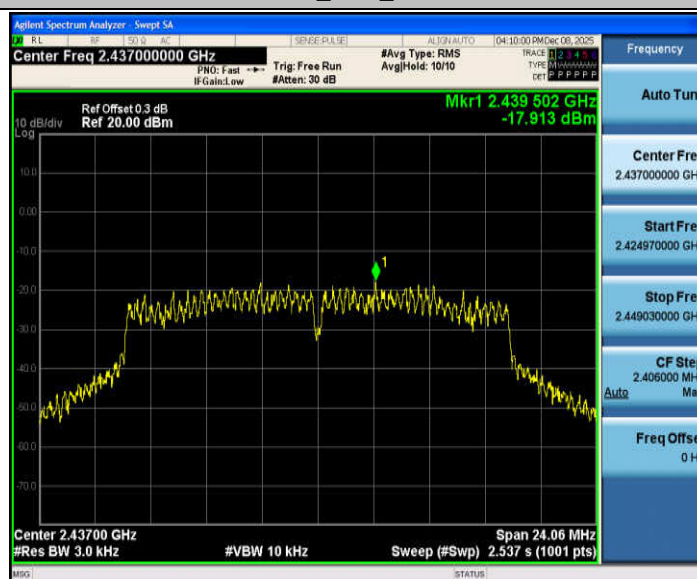
11B_Ant1_2462



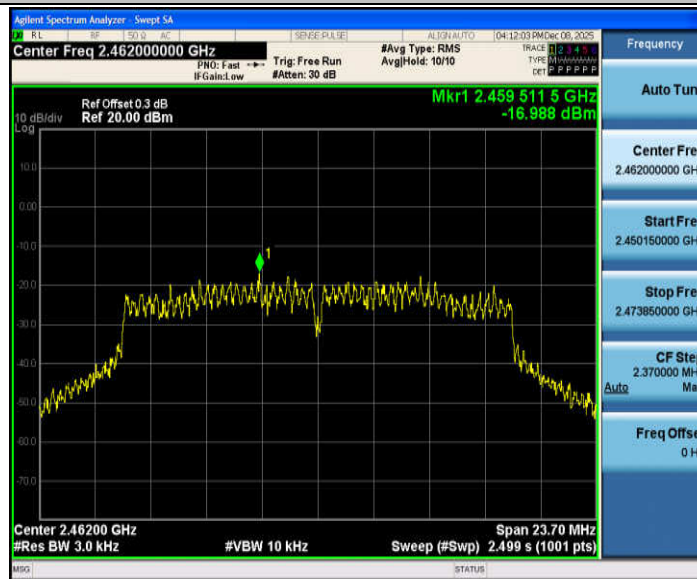
11G_Ant1_2412



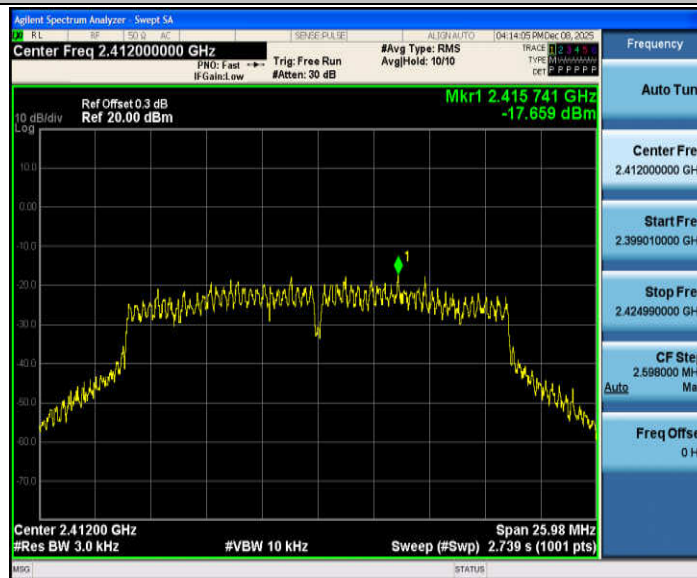
11G_Ant1_2437



11G_Ant1_2462



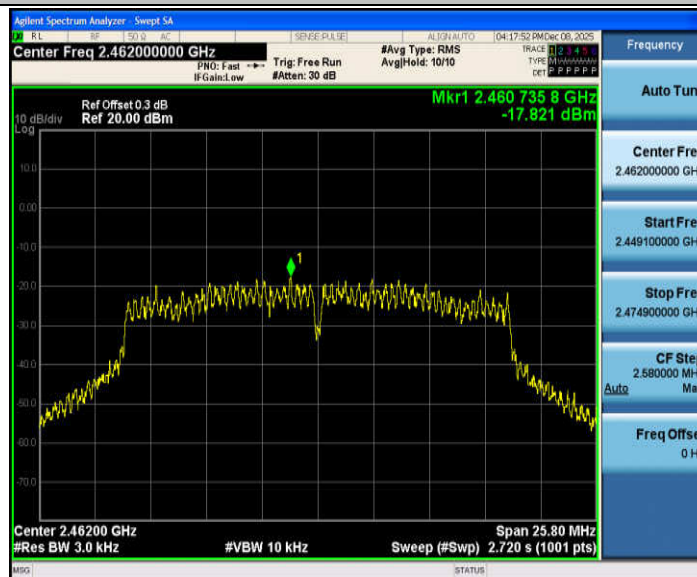
11N20SISO_Ant1_2412



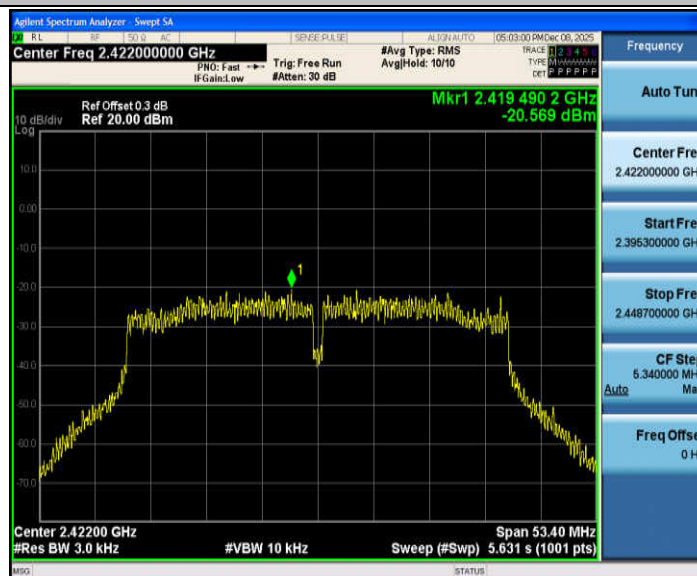
11N20SISO_Ant1_2437



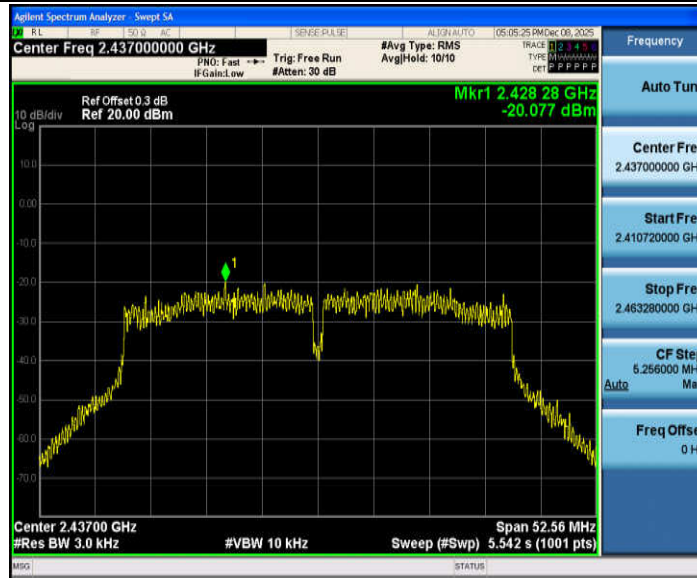
11N20SISO_Ant1_2462



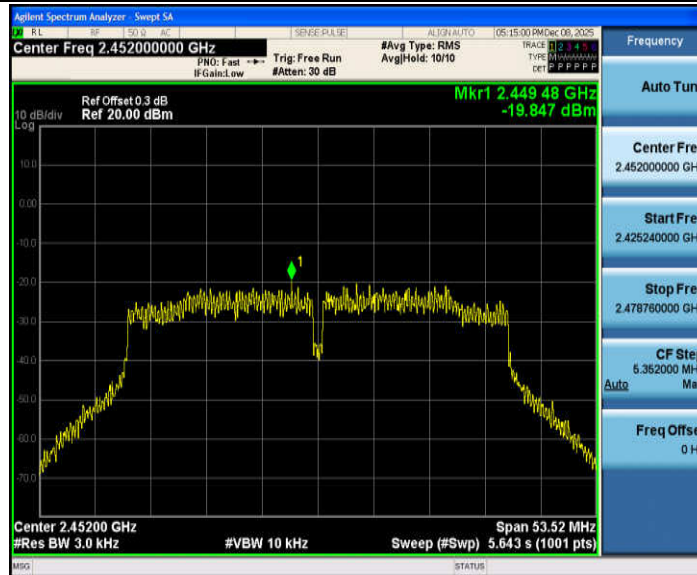
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



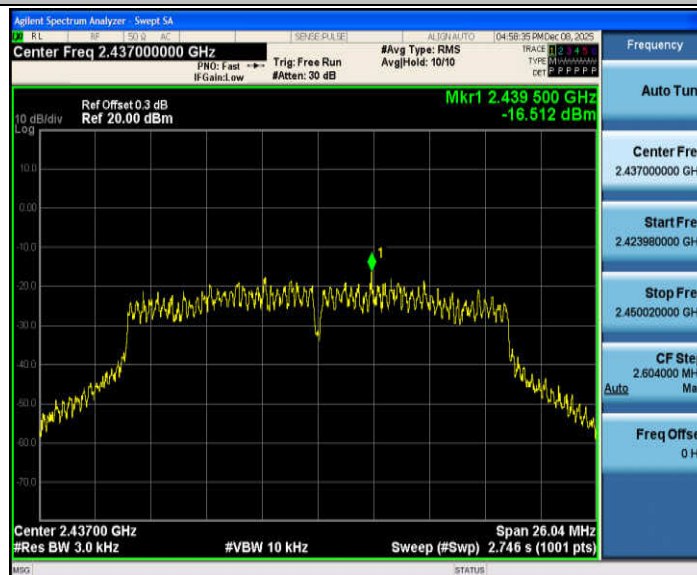
11N40SISO_Ant1_2452



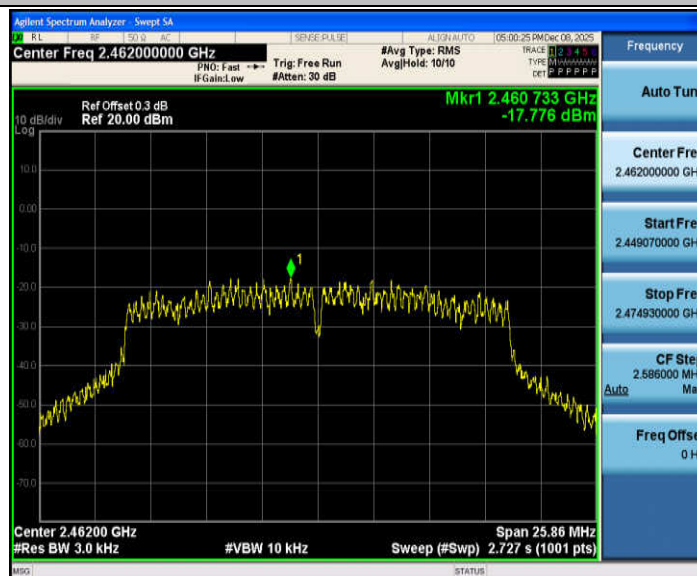
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



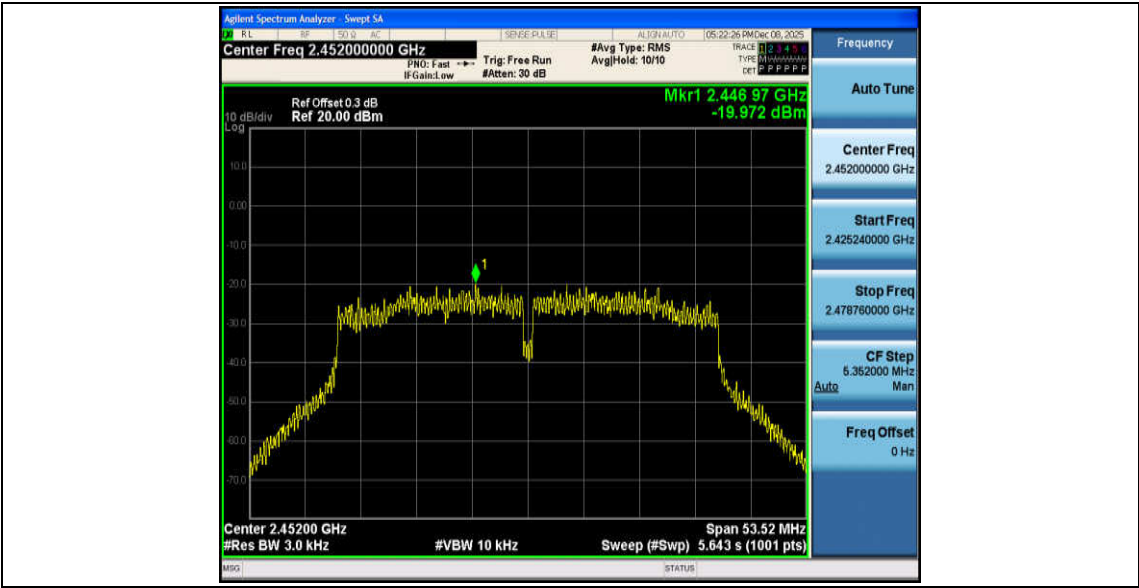
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



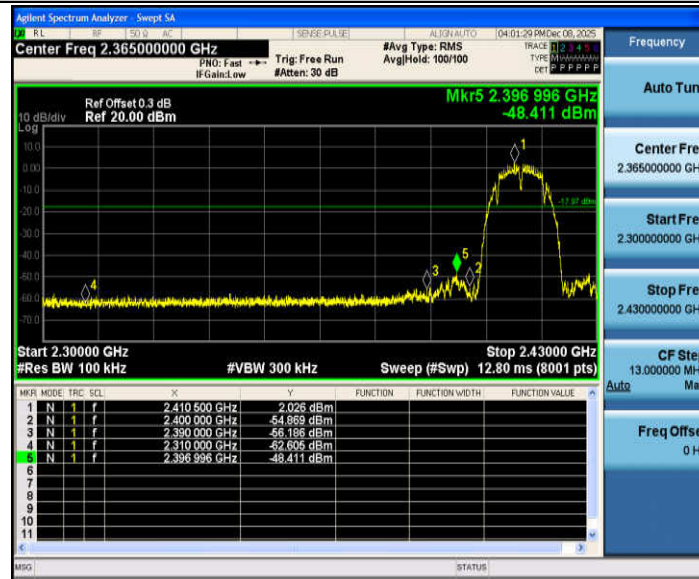
Appendix E: Band edge measurements

Test Result

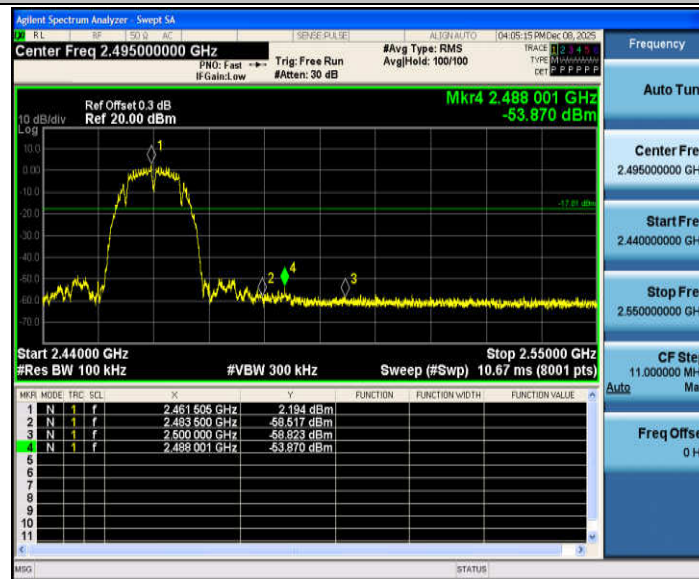
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.03	-48.41	≤-17.97	PASS
		High	2462	2.19	-53.87	≤-17.81	PASS
11G	Ant1	Low	2412	-2.80	-34.71	≤-22.8	PASS
		High	2462	-2.50	-57.79	≤-22.5	PASS
11N20SISO	Ant1	Low	2412	-2.65	-33.38	≤-22.65	PASS
		High	2462	-2.28	-57.64	≤-22.28	PASS
11N40SISO	Ant1	Low	2422	-5.92	-33.78	≤-25.92	PASS
		High	2452	-5.71	-56.8	≤-25.71	PASS
11AX20SISO	Ant1	Low	2412	-2.93	-35.38	≤-22.93	PASS
		High	2462	-2.63	-57.1	≤-22.63	PASS
11AX40SISO	Ant1	Low	2422	-5.87	-36.37	≤-25.87	PASS
		High	2452	-5.77	-57.85	≤-25.77	PASS

Test Graphs

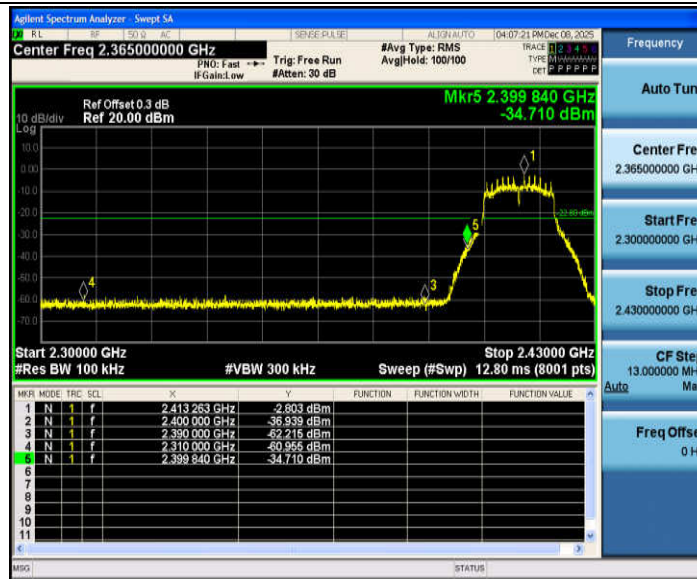
11B_Ant1_Low_2412



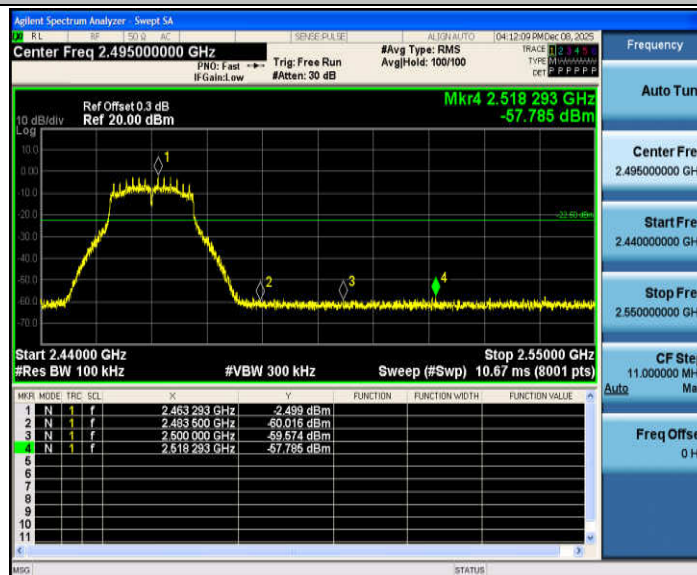
11B_Ant1_High_2462



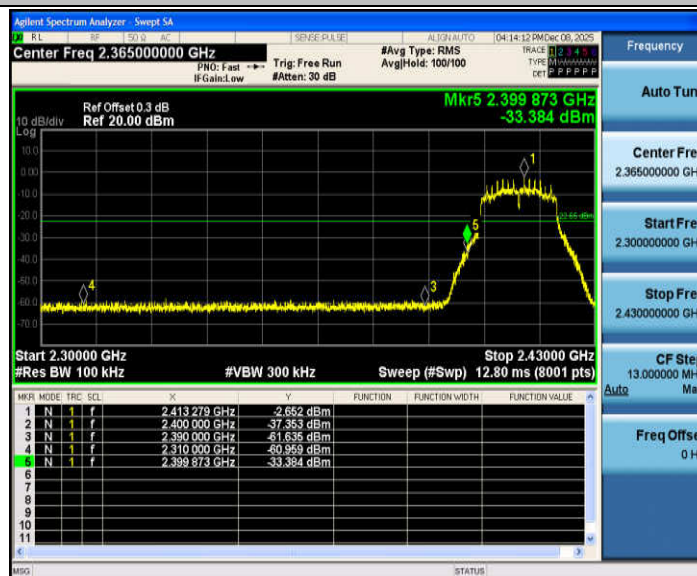
11G_Ant1_Low_2412



11G_Ant1_High_2462



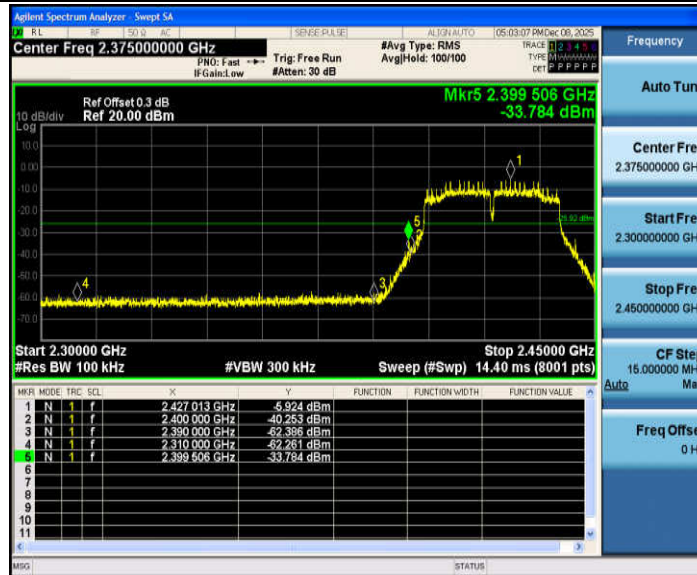
11N20SISO_Ant1_Low_2412



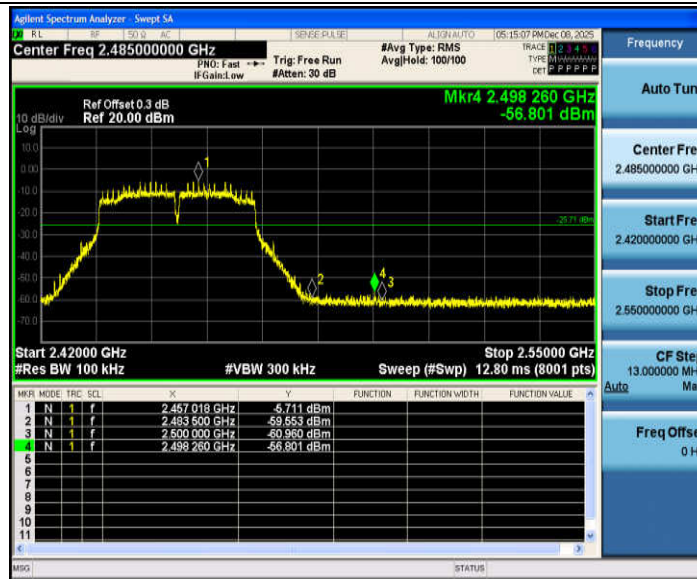
11N20SISO_Ant1_High_2462



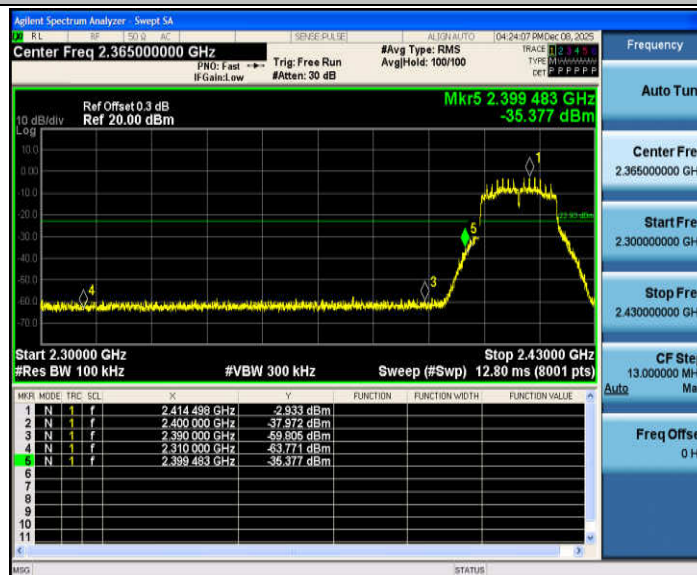
11N40SISO_Ant1_Low_2422



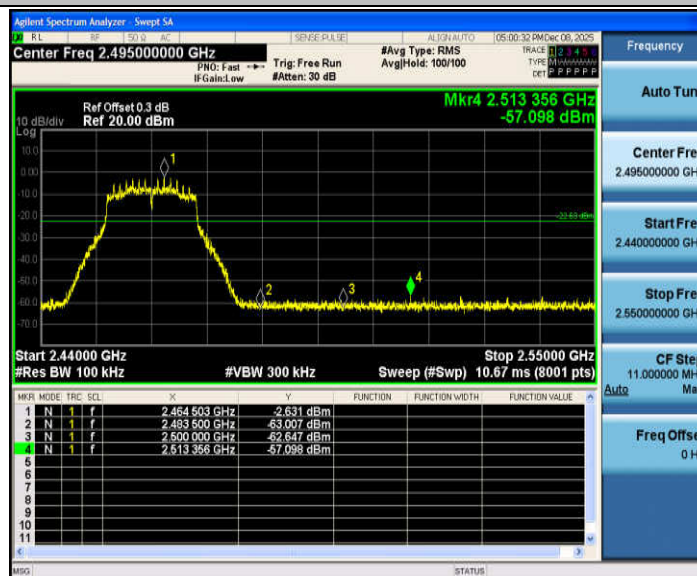
11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



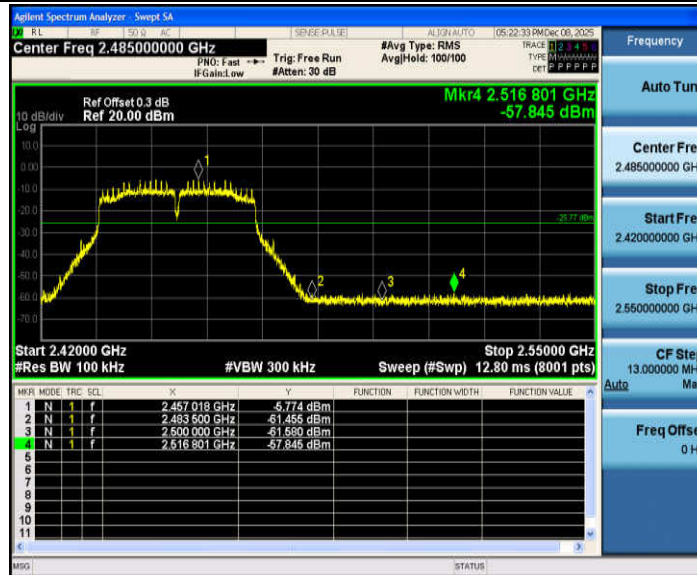
11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_Ant1_High_2452



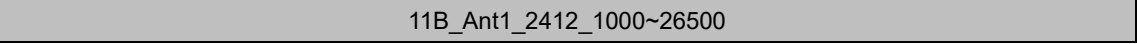
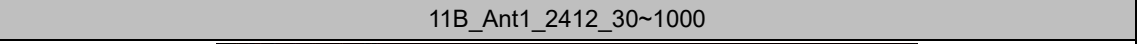
Appendix F: Conducted Spurious Emission

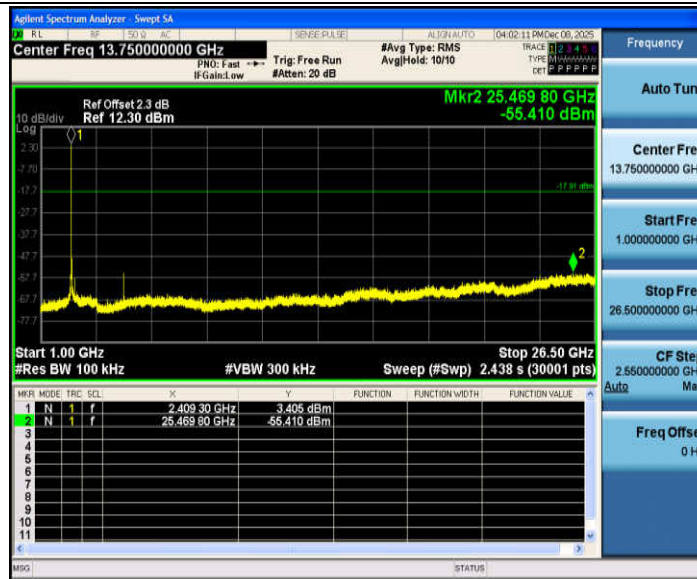
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.09	2.09	---	PASS
			30~1000	2.09	-68	≤-17.91	PASS
			1000~26500	2.09	-55.41	≤-17.91	PASS
		2437	Reference	0.33	0.33	---	PASS
			30~1000	0.33	-67.96	≤-19.67	PASS
			1000~26500	0.33	-55.24	≤-19.67	PASS
		2462	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-68.29	≤-19.61	PASS
			1000~26500	0.39	-55.01	≤-19.61	PASS
11G	Ant1	2412	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-67.96	≤-23.04	PASS
			1000~26500	-3.04	-55.08	≤-23.04	PASS
		2437	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-68.38	≤-24.17	PASS
			1000~26500	-4.17	-53.84	≤-24.17	PASS
		2462	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-67.96	≤-22.86	PASS
			1000~26500	-2.86	-54.62	≤-22.86	PASS
11N20SISO	Ant1	2412	Reference	-3.25	-3.25	---	PASS
			30~1000	-3.25	-68.18	≤-23.25	PASS
			1000~26500	-3.25	-54.79	≤-23.25	PASS
		2437	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-68.01	≤-22.92	PASS
			1000~26500	-2.92	-55.41	≤-22.92	PASS
		2462	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-67.35	≤-22.86	PASS
			1000~26500	-2.86	-55.23	≤-22.86	PASS
11N40SISO	Ant1	2422	Reference	-6.44	-6.44	---	PASS
			30~1000	-6.44	-67.88	≤-26.44	PASS
			1000~26500	-6.44	-55.13	≤-26.44	PASS
		2437	Reference	-5.65	-5.65	---	PASS
			30~1000	-5.65	-67.8	≤-25.65	PASS
			1000~26500	-5.65	-54.78	≤-25.65	PASS
		2452	Reference	-6.41	-6.41	---	PASS
			30~1000	-6.41	-67.66	≤-26.41	PASS
			1000~26500	-6.41	-55.27	≤-26.41	PASS
11AX20SISO	Ant1	2412	Reference	-3.27	-3.27	---	PASS

			30~1000	-3.27	-67.95	≤ -23.27	PASS
			1000~26500	-3.27	-55.31	≤ -23.27	PASS
		2437	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-68.06	≤ -23.23	PASS
			1000~26500	-3.23	-55.71	≤ -23.23	PASS
		2462	Reference	-2.89	-2.89	---	PASS
			30~1000	-2.89	-68.38	≤ -22.89	PASS
			1000~26500	-2.89	-55.33	≤ -22.89	PASS
11AX40SISO	Ant1	2422	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-67.51	≤ -25.97	PASS
			1000~26500	-5.97	-55.03	≤ -25.97	PASS
		2437	Reference	-5.77	-5.77	---	PASS
			30~1000	-5.77	-49.57	≤ -25.77	PASS
			1000~26500	-5.77	-55	≤ -25.77	PASS
		2452	Reference	-6.39	-6.39	---	PASS
			30~1000	-6.39	-68.62	≤ -26.39	PASS
			1000~26500	-6.39	-55.34	≤ -26.39	PASS

11B_Ant1_2412_0~Reference

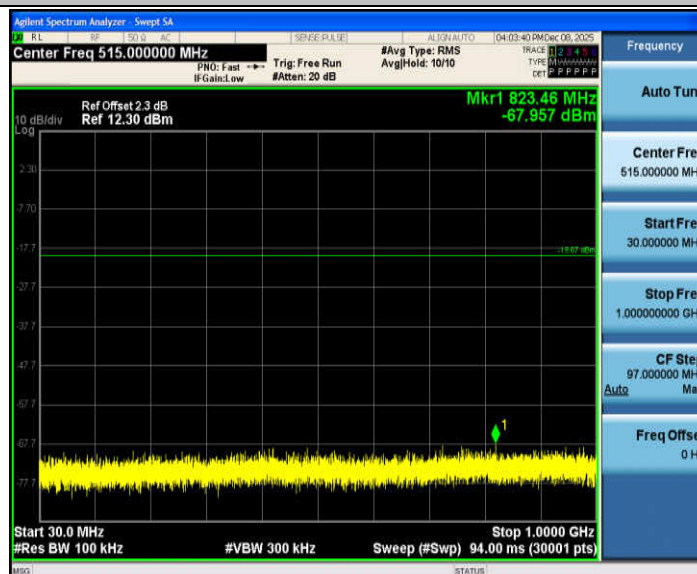




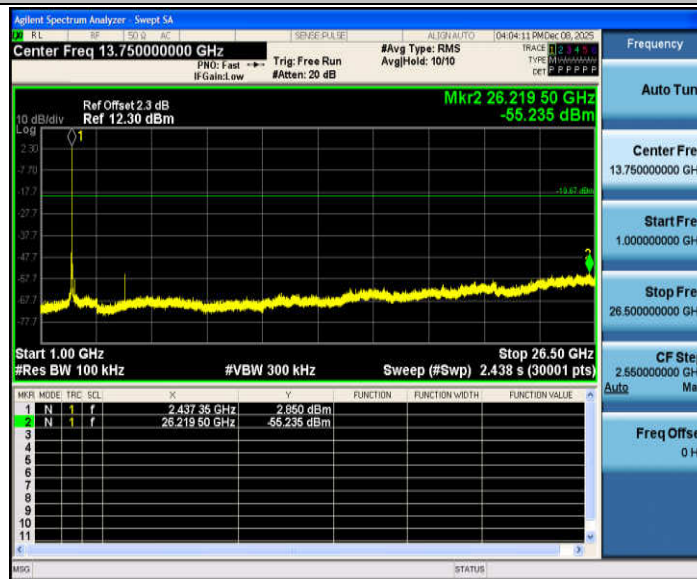
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



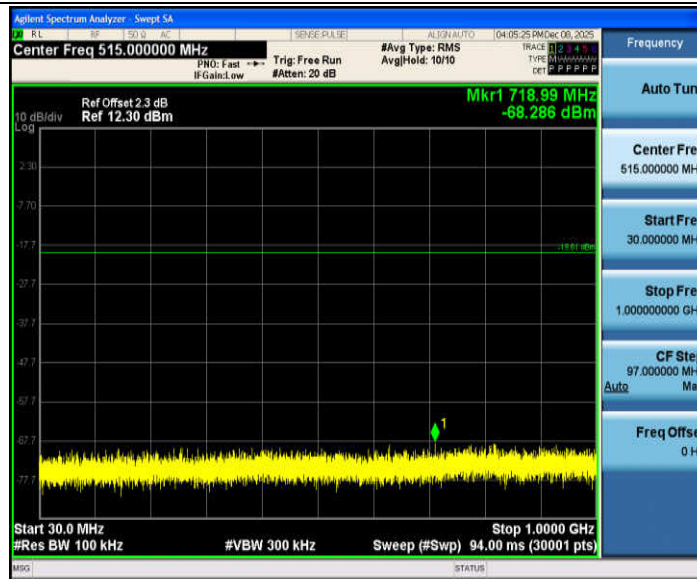
11B_Ant1_2437_1000~26500



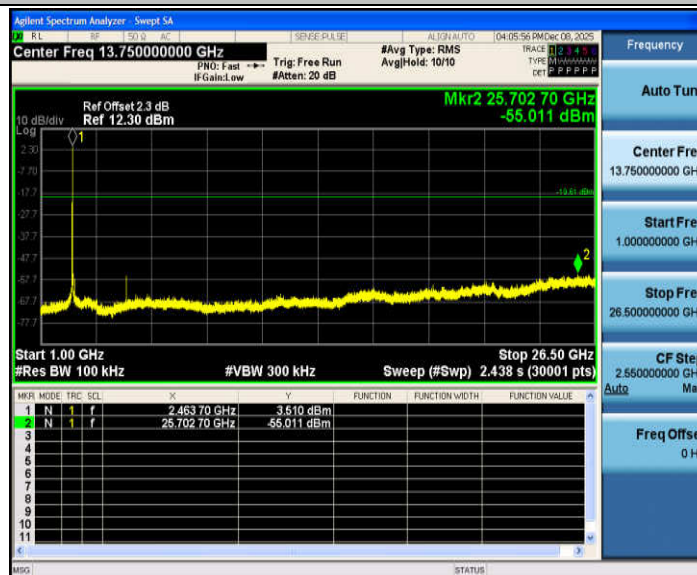
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



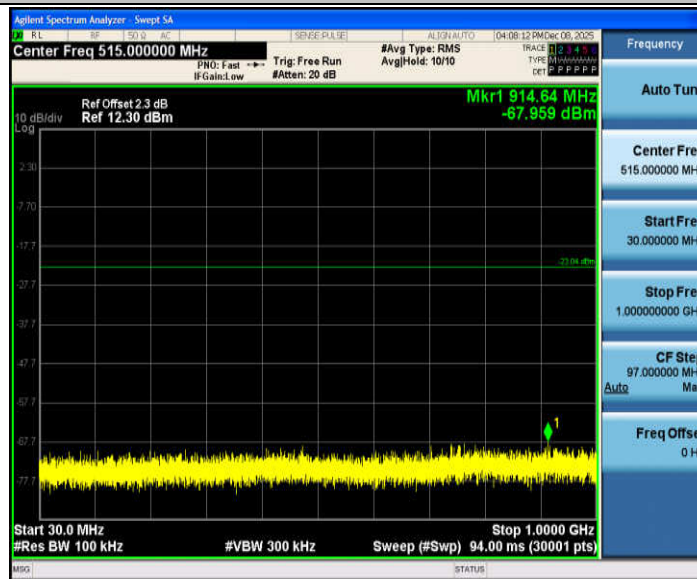
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference