

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BSRF-T29

Company : Zhejiang Dalton Intelligent Technology Co., Ltd.

EUT : Smart lock

Model Number : T29

Report No. : CTA25092700401

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	8.600	2408.040	2416.640	0.5	PASS
		2437	8.640	2432.680	2441.320	0.5	PASS
		2462	8.240	2458.040	2466.280	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.320	2428.920	2445.240	0.5	PASS
		2462	16.320	2453.920	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
		2437	17.160	2428.440	2445.600	0.5	PASS
		2462	17.280	2453.360	2470.640	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



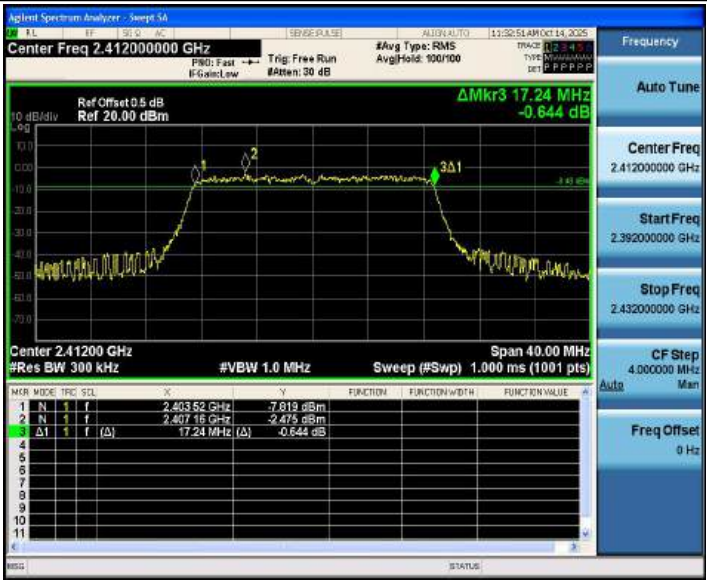
11G_Ant1_2437



11G_Ant1_2462



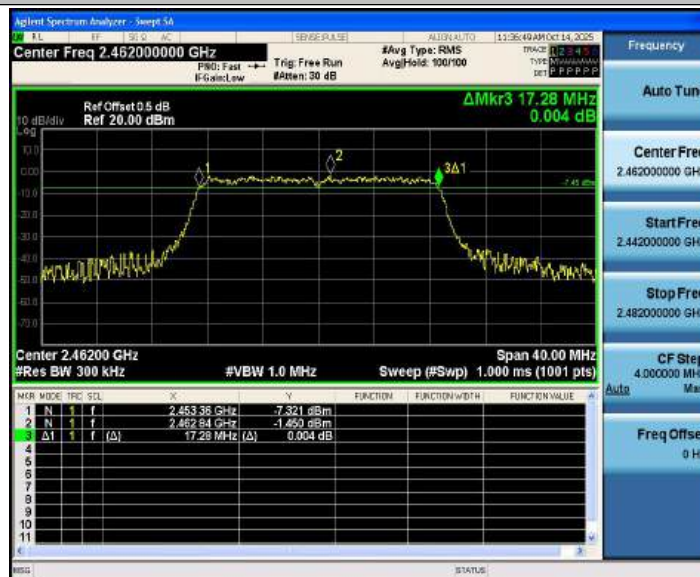
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



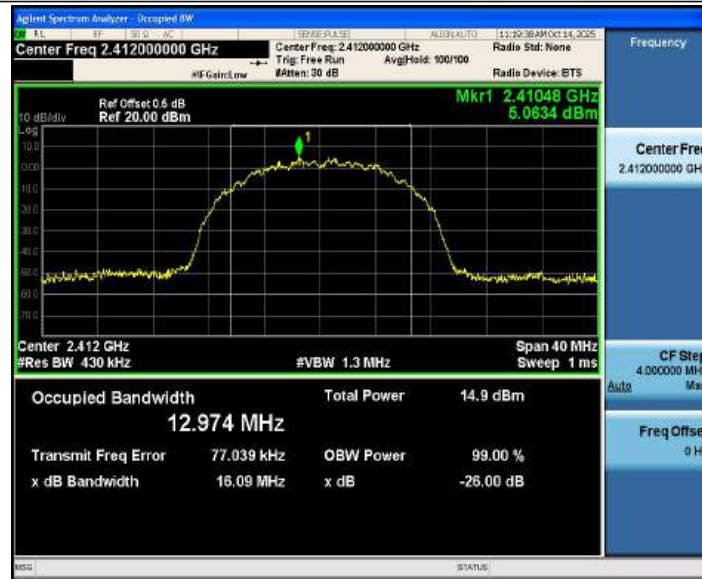
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.974	2405.5900	2418.5640	---	---
		2437	13.000	2430.5513	2443.5513	---	---
		2462	12.977	2455.4999	2468.4769	---	---
11G	Ant1	2412	16.569	2403.7678	2420.3368	---	---
		2437	16.576	2428.7574	2445.3334	---	---
		2462	16.606	2453.7239	2470.3299	---	---
11N20SISO	Ant1	2412	17.467	2403.3209	2420.7879	---	---
		2437	17.436	2428.3169	2445.7529	---	---
		2462	17.457	2453.3093	2470.7663	---	---

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



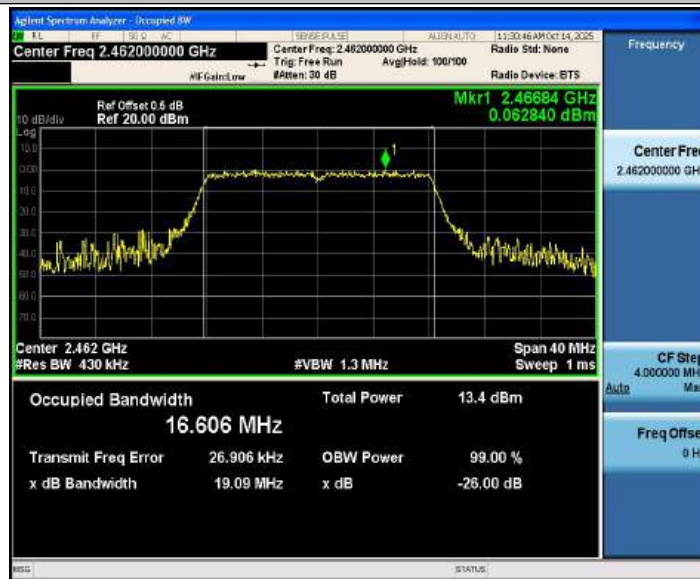
11G_Ant1_2412



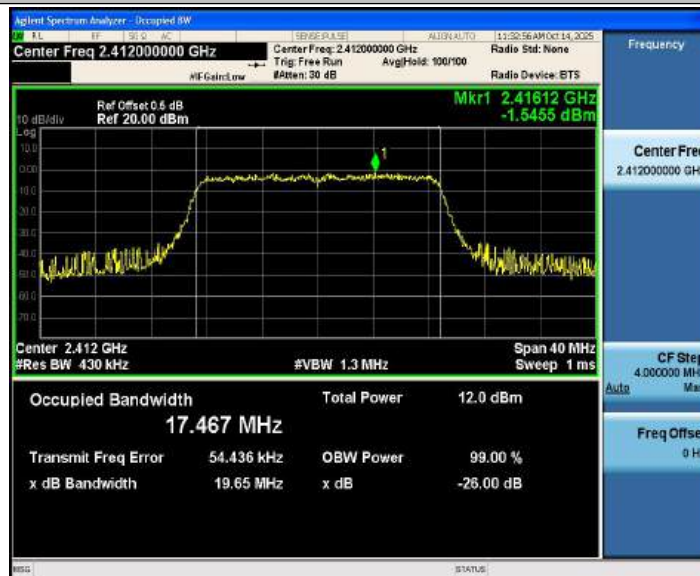
11G_Ant1_2437



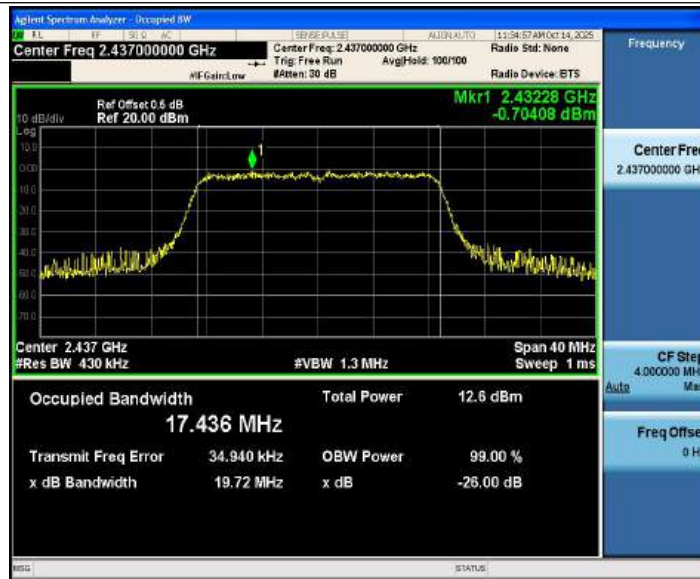
11G_Ant1_2462



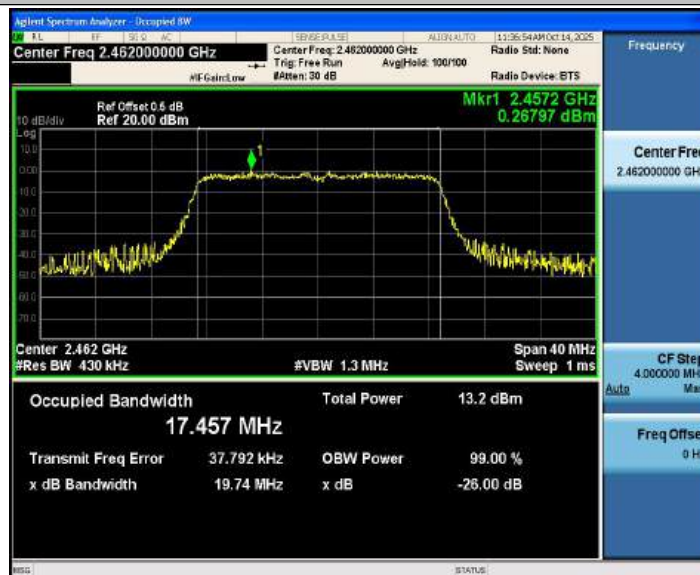
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.25	≤30.00	PASS
		2437	14.63	≤30.00	PASS
		2462	14.88	≤30.00	PASS
11G	Ant1	2412	13.02	≤30.00	PASS
		2437	13.64	≤30.00	PASS
		2462	14.31	≤30.00	PASS
11N20SISO	Ant1	2412	13.15	≤30.00	PASS
		2437	13.77	≤30.00	PASS
		2462	14.51	≤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	-14.96	≤8.00	PASS
		2437	-14.18	≤8.00	PASS
		2462	-13.83	≤8.00	PASS
11G	Ant1	2412	-21.43	≤8.00	PASS
		2437	-20.95	≤8.00	PASS
		2462	-20.14	≤8.00	PASS
11N20SISO	Ant1	2412	-21.16	≤8.00	PASS
		2437	-20.38	≤8.00	PASS
		2462	-19.87	≤8.00	PASS

Test Graphs

11B_Ant1_2412



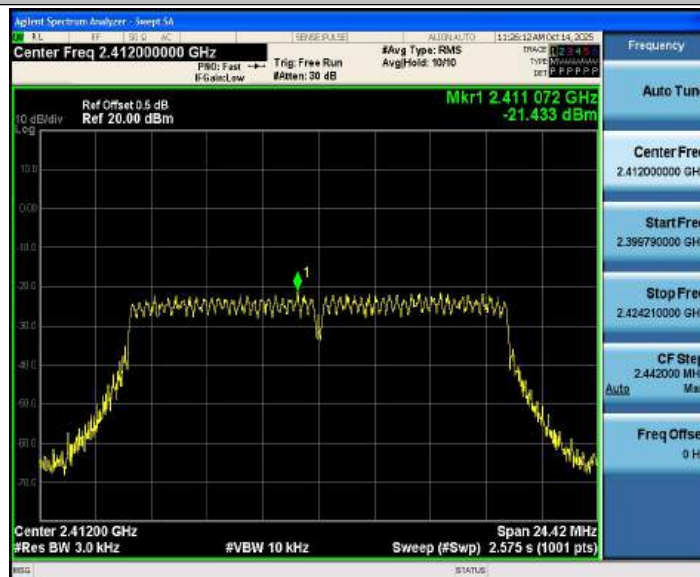
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



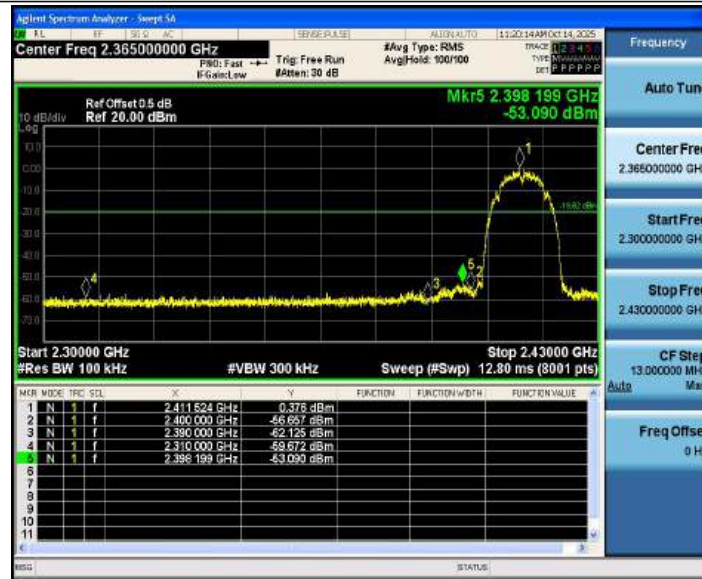
Appendix E: Band edge measurements

Test Result

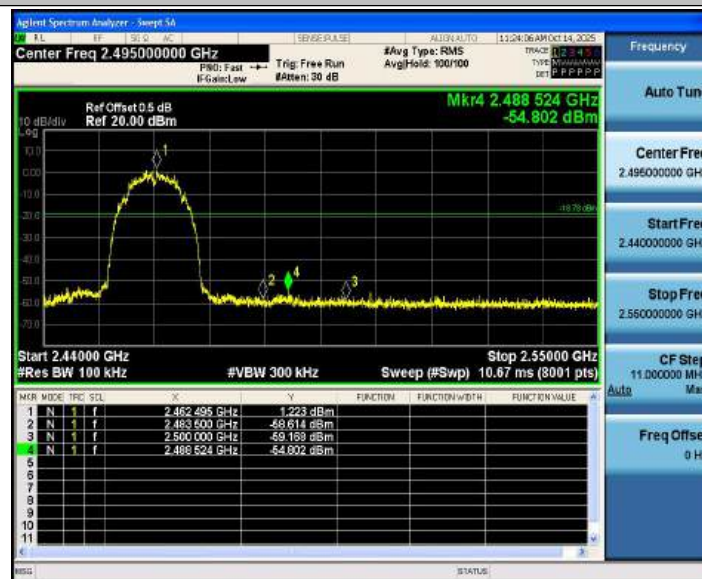
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.38	-53.09	≤-19.62	PASS
		High	2462	1.22	-54.8	≤-18.78	PASS
11G	Ant1	Low	2412	-7.03	-42.5	≤-27.03	PASS
		High	2462	-6.06	-50.82	≤-26.06	PASS
11N20SISO	Ant1	Low	2412	-7.79	-45.32	≤-27.79	PASS
		High	2462	-6.47	-52.79	≤-26.47	PASS

Test Graphs

11B_Ant1_Low_2412



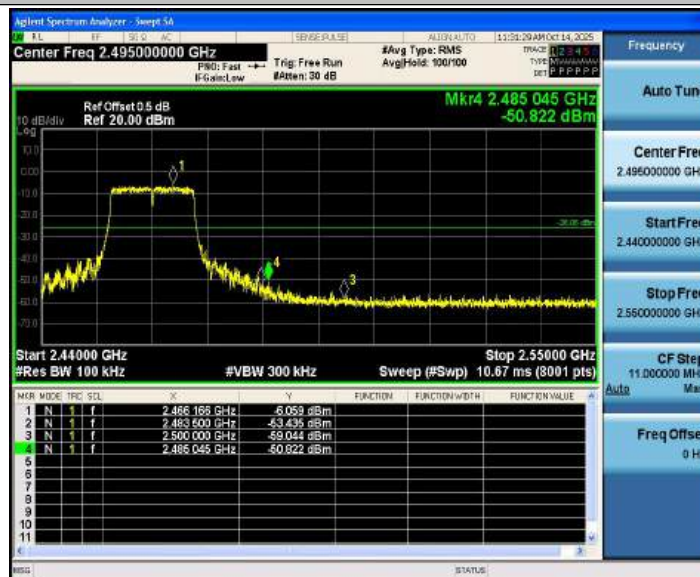
11B_Ant1_High_2462



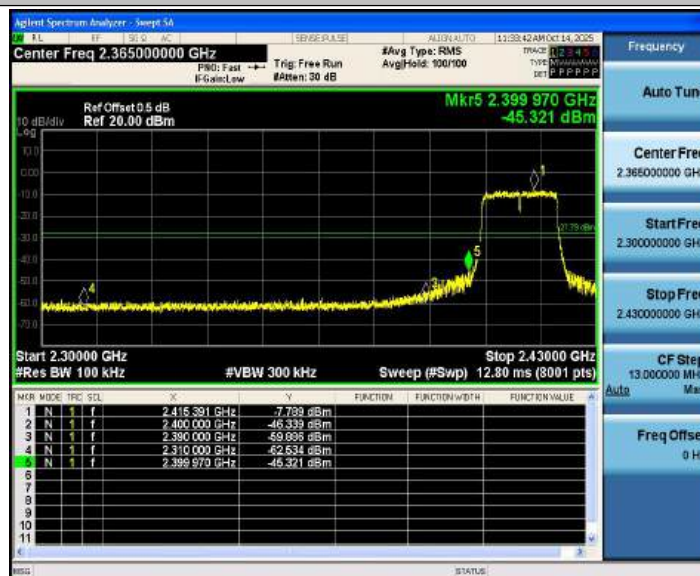
11G_Ant1_Low_2412



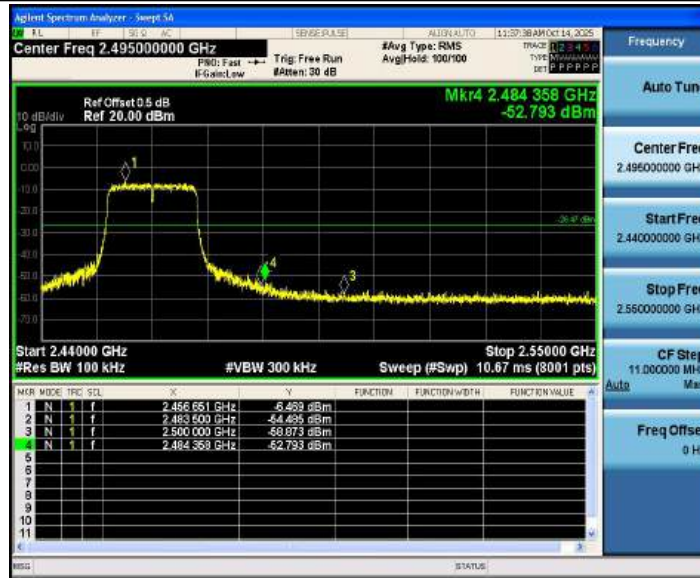
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-55.67	≤-20.42	PASS
			1000~26500	-0.42	-44.34	≤-20.42	PASS
		2437	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-54.06	≤-21.06	PASS
			1000~26500	-1.06	-44.91	≤-21.06	PASS
		2462	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-56.19	≤-20.79	PASS
			1000~26500	-0.79	-45.47	≤-20.79	PASS
11G	Ant1	2412	Reference	-7.85	-7.85	---	PASS
			30~1000	-7.85	-58.8	≤-27.85	PASS
			1000~26500	-7.85	-44.26	≤-27.85	PASS
		2437	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-60.14	≤-26.61	PASS
			1000~26500	-6.61	-44.62	≤-26.61	PASS
		2462	Reference	-7.01	-7.01	---	PASS
			30~1000	-7.01	-59.7	≤-27.01	PASS
			1000~26500	-7.01	-45.24	≤-27.01	PASS
11N20SISO	Ant1	2412	Reference	-8.10	-8.10	---	PASS
			30~1000	-8.10	-59.8	≤-28.1	PASS
			1000~26500	-8.10	-44.14	≤-28.1	PASS
		2437	Reference	-7.56	-7.56	---	PASS
			30~1000	-7.56	-59.97	≤-27.56	PASS
			1000~26500	-7.56	-44.66	≤-27.56	PASS
		2462	Reference	-6.92	-6.92	---	PASS
			30~1000	-6.92	-59.78	≤-26.92	PASS
			1000~26500	-6.92	-45.04	≤-26.92	PASS

Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



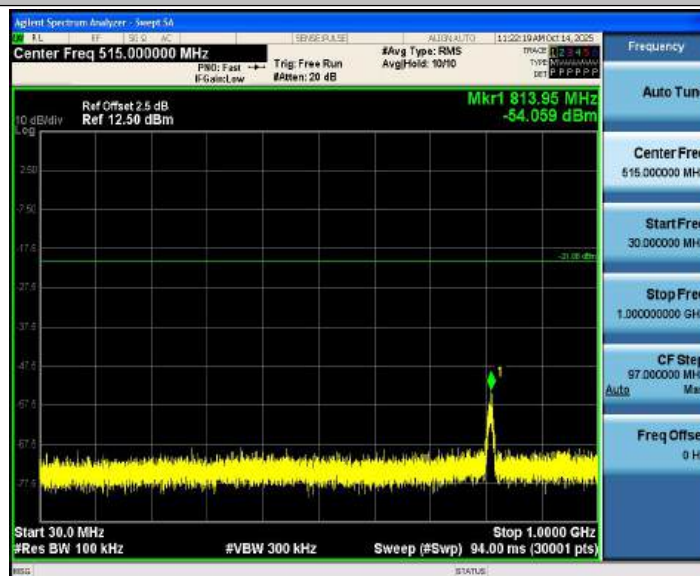
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



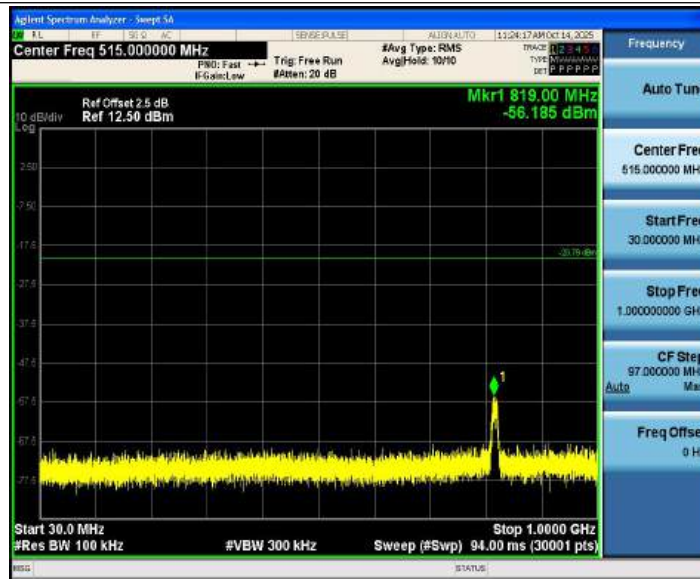
11B_Ant1_2437_1000~26500



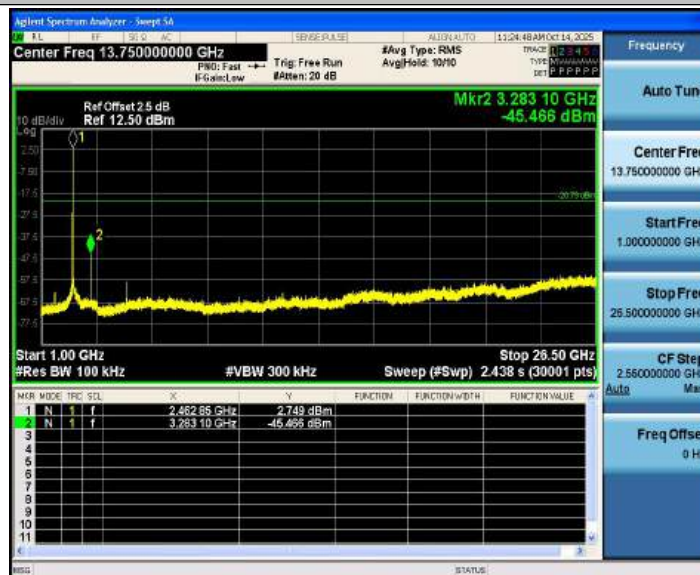
11B_Ant1_2462_0~Reference



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



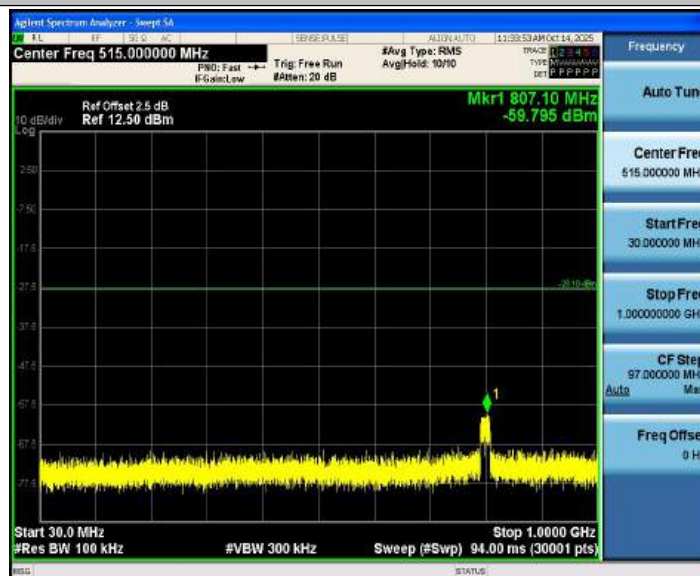
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



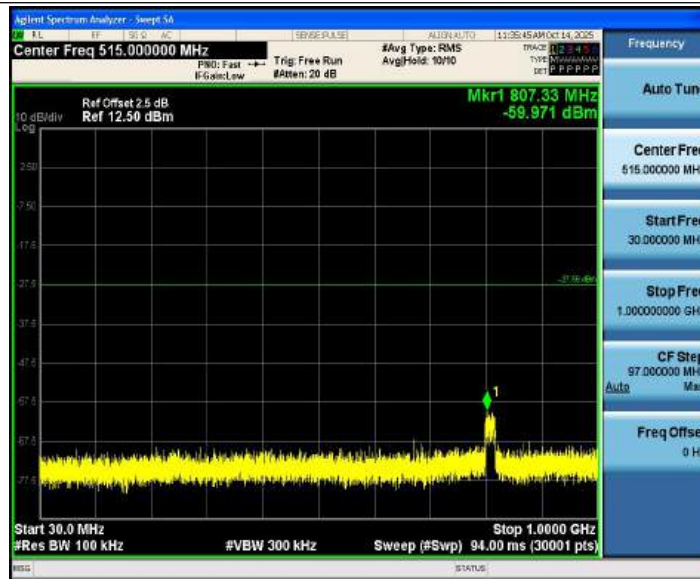
11N20SISO_Ant1_2412_1000~26500



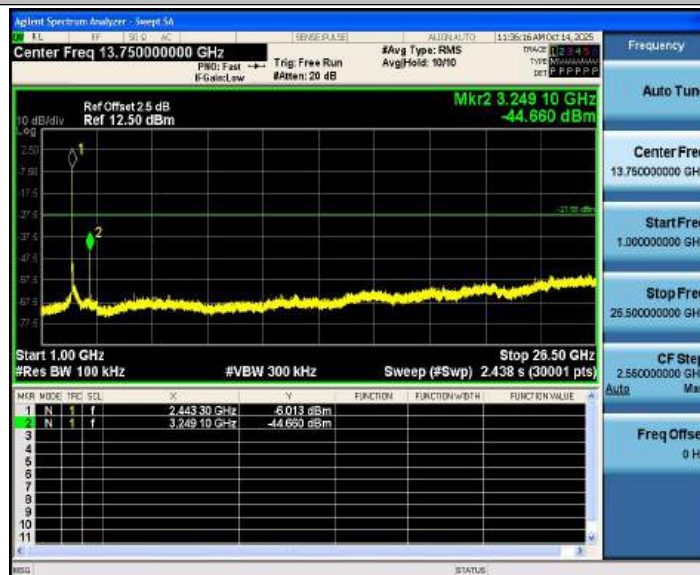
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



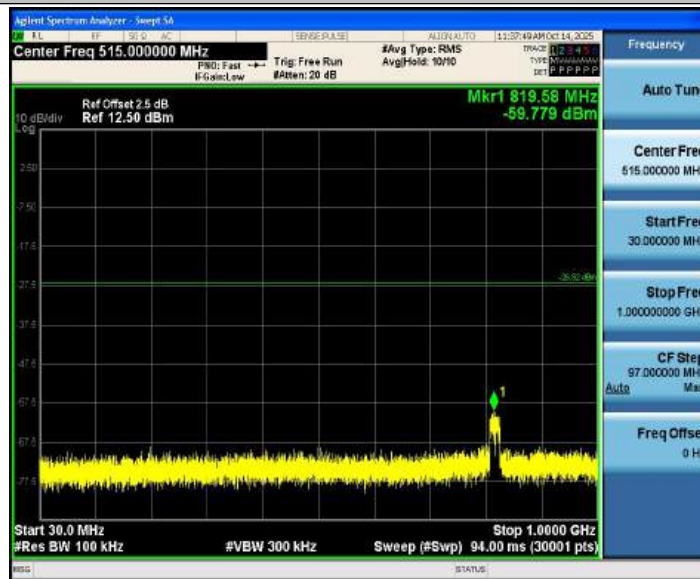
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



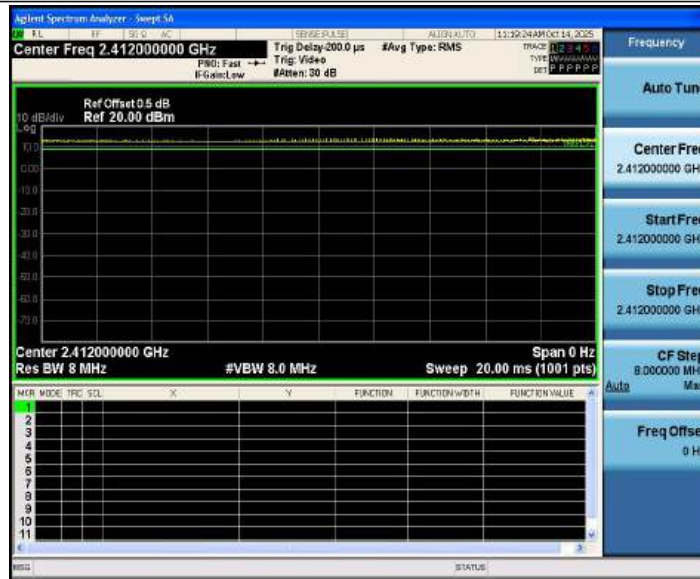
Appendix G: Duty Cycle

Test Result

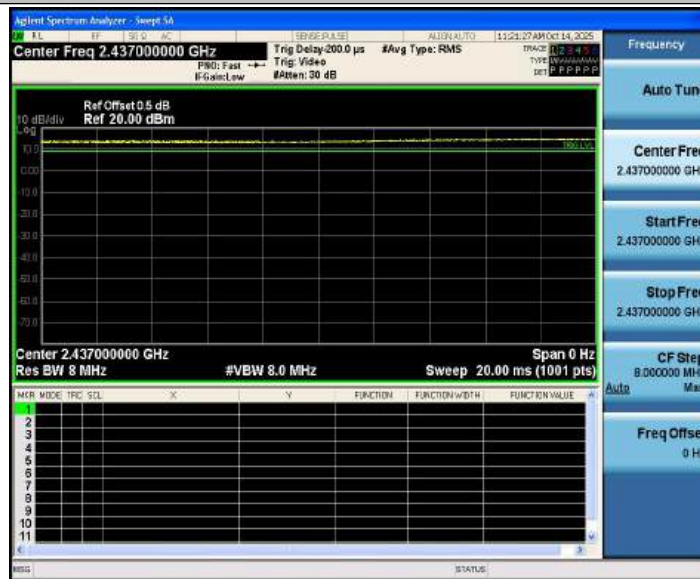
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N20SISO	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00

Test Graphs

11B_Ant1_2412



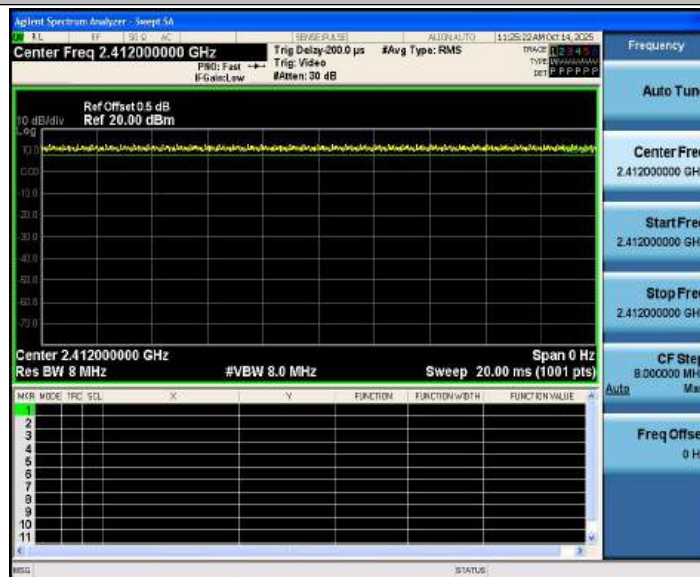
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

