

Appendix: 2.4G Wi-Fi

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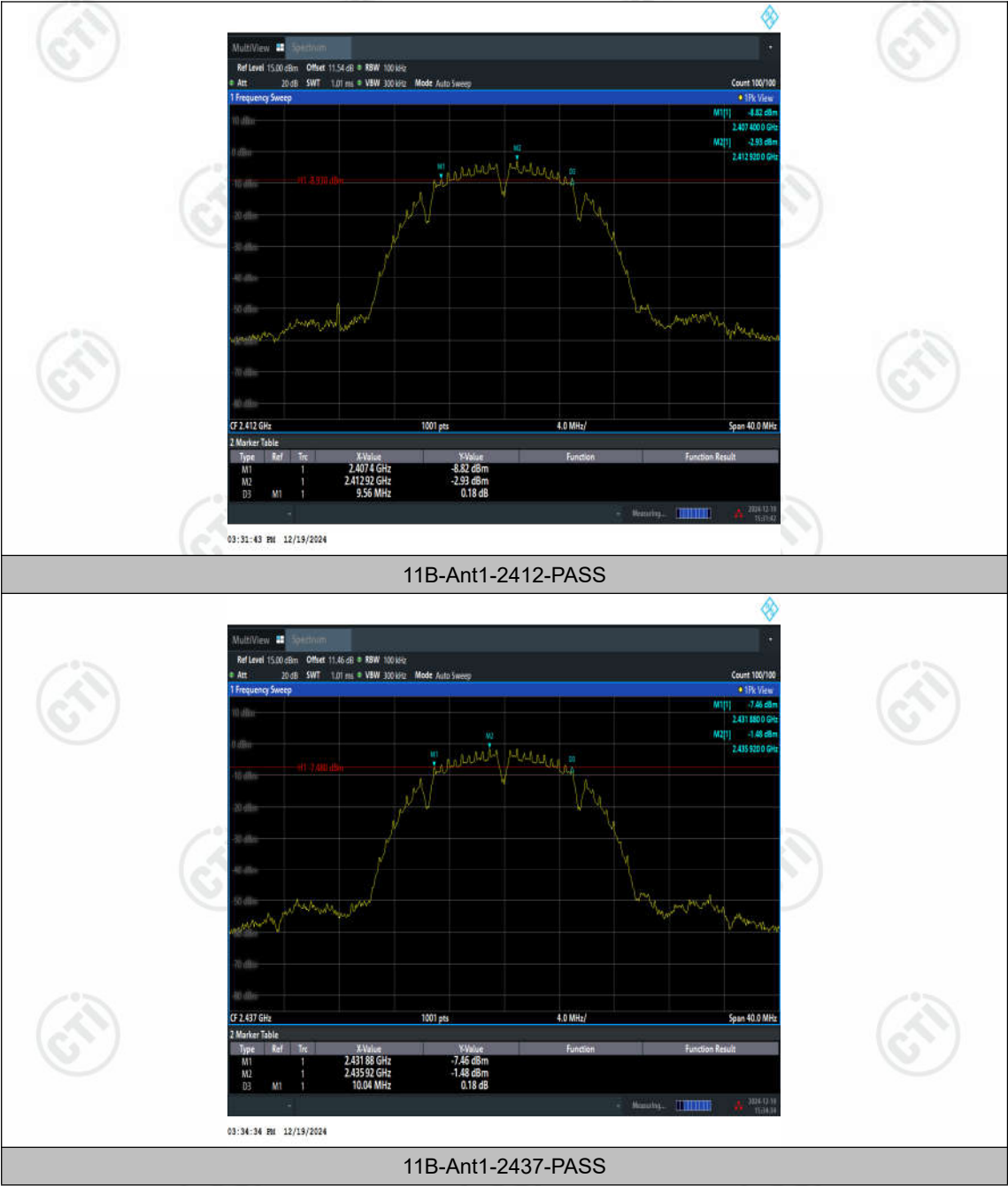
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Appendix A: DTS Bandwidth

Test Result

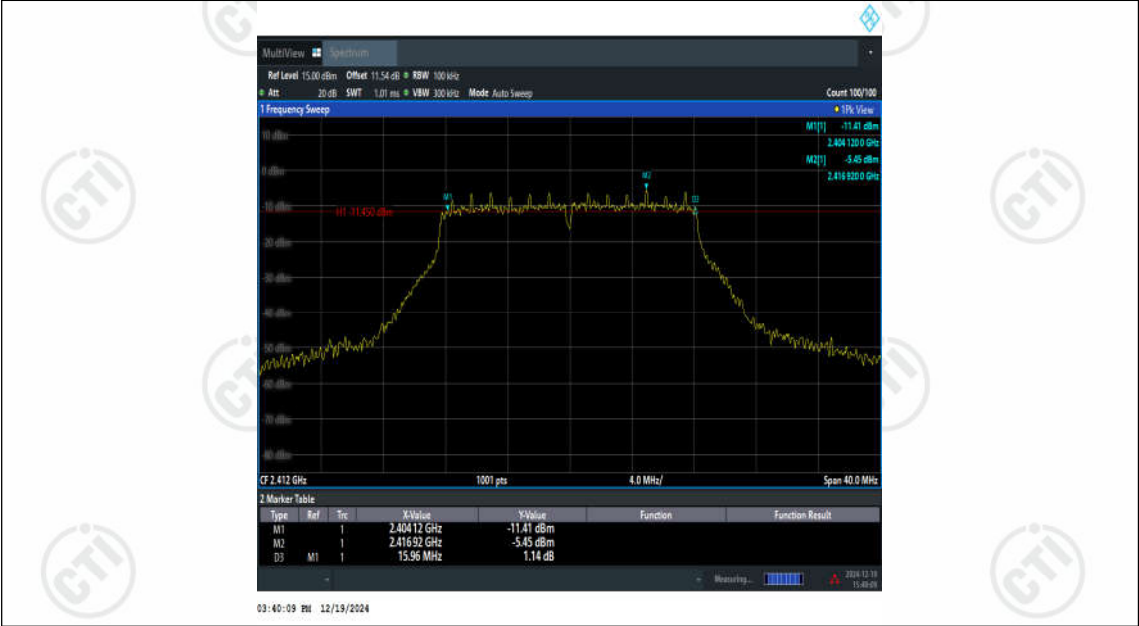
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.56	2407.40	2416.96	0.5	PASS
11B	Ant1	2437	10.04	2431.88	2441.92	0.5	PASS
11B	Ant1	2462	10.08	2456.88	2466.96	0.5	PASS
11G	Ant1	2412	15.96	2404.12	2420.08	0.5	PASS
11G	Ant1	2437	16.32	2428.76	2445.08	0.5	PASS
11G	Ant1	2462	16.32	2453.76	2470.08	0.5	PASS
11N20SISO	Ant1	2412	16.68	2404.04	2420.72	0.5	PASS
11N20SISO	Ant1	2437	17.56	2428.16	2445.72	0.5	PASS
11N20SISO	Ant1	2462	17.16	2453.52	2470.68	0.5	PASS

Test Graphs

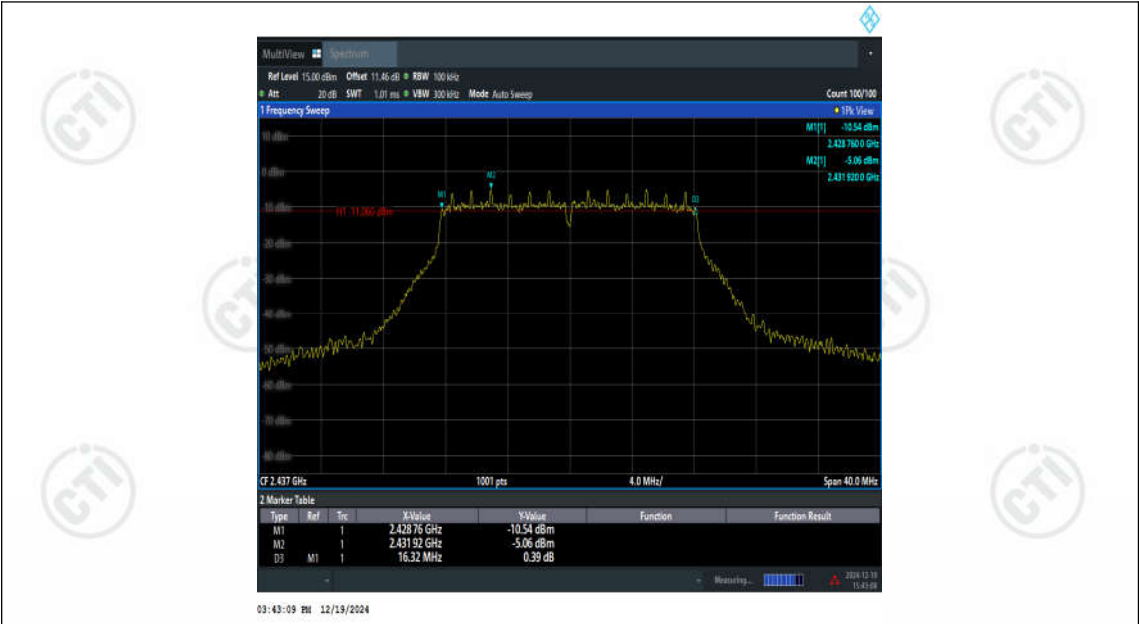




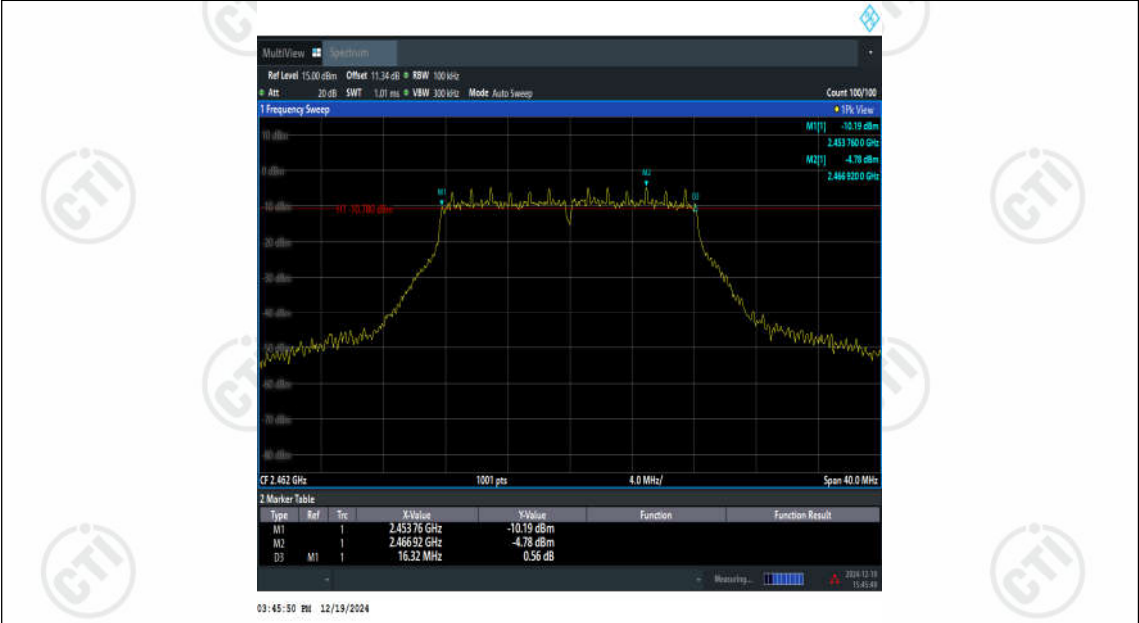
11B-Ant1-2462-PASS



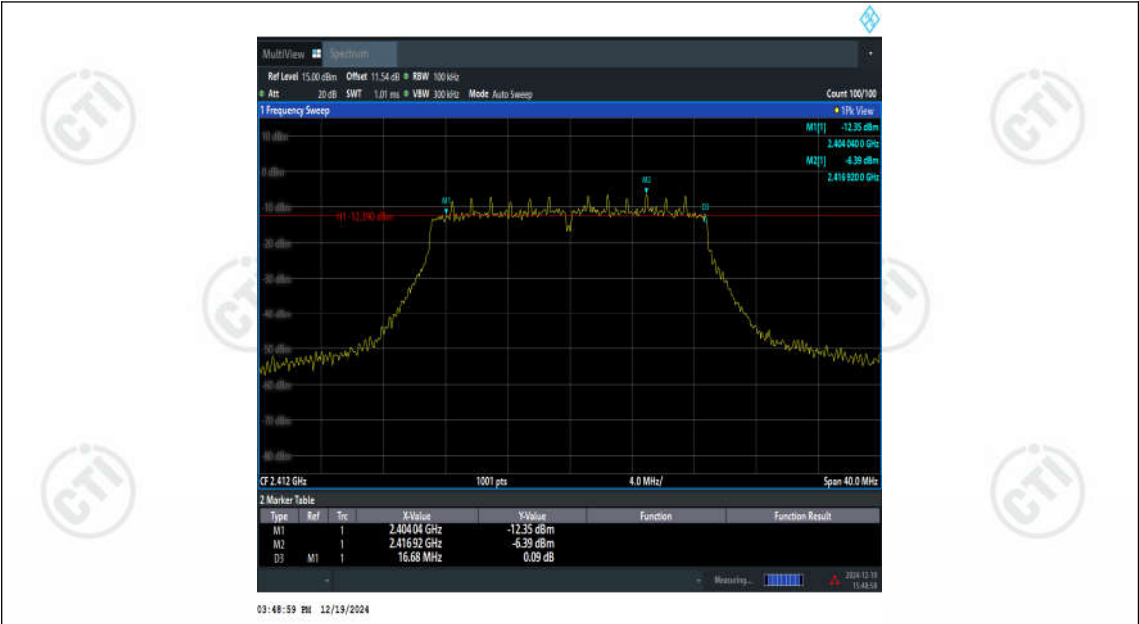
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



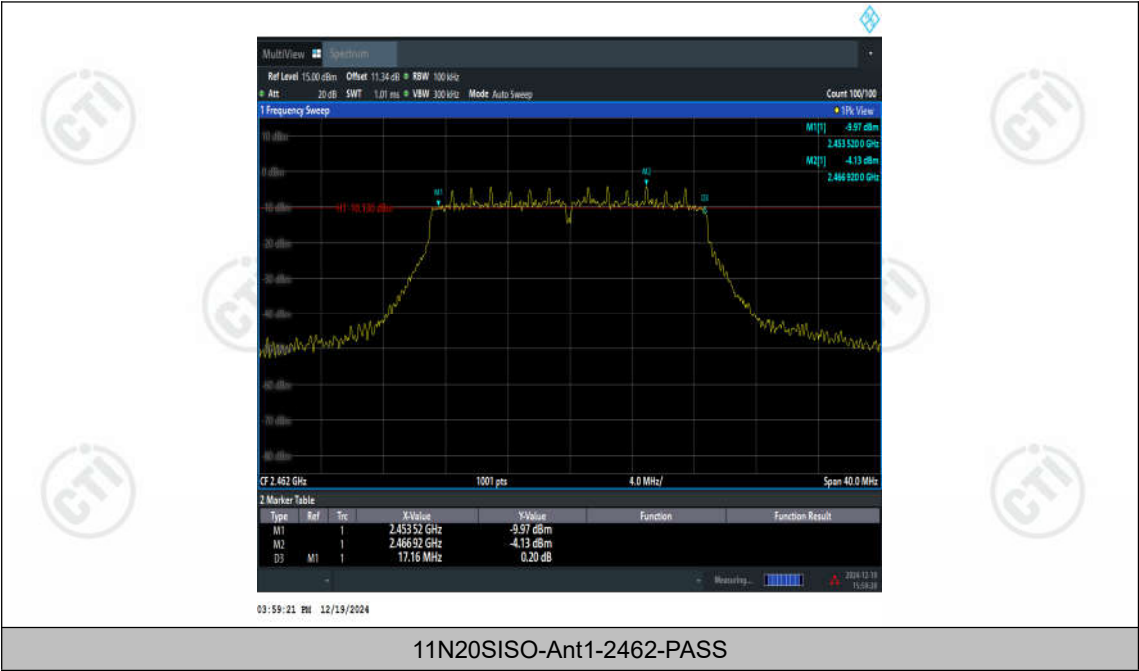
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS

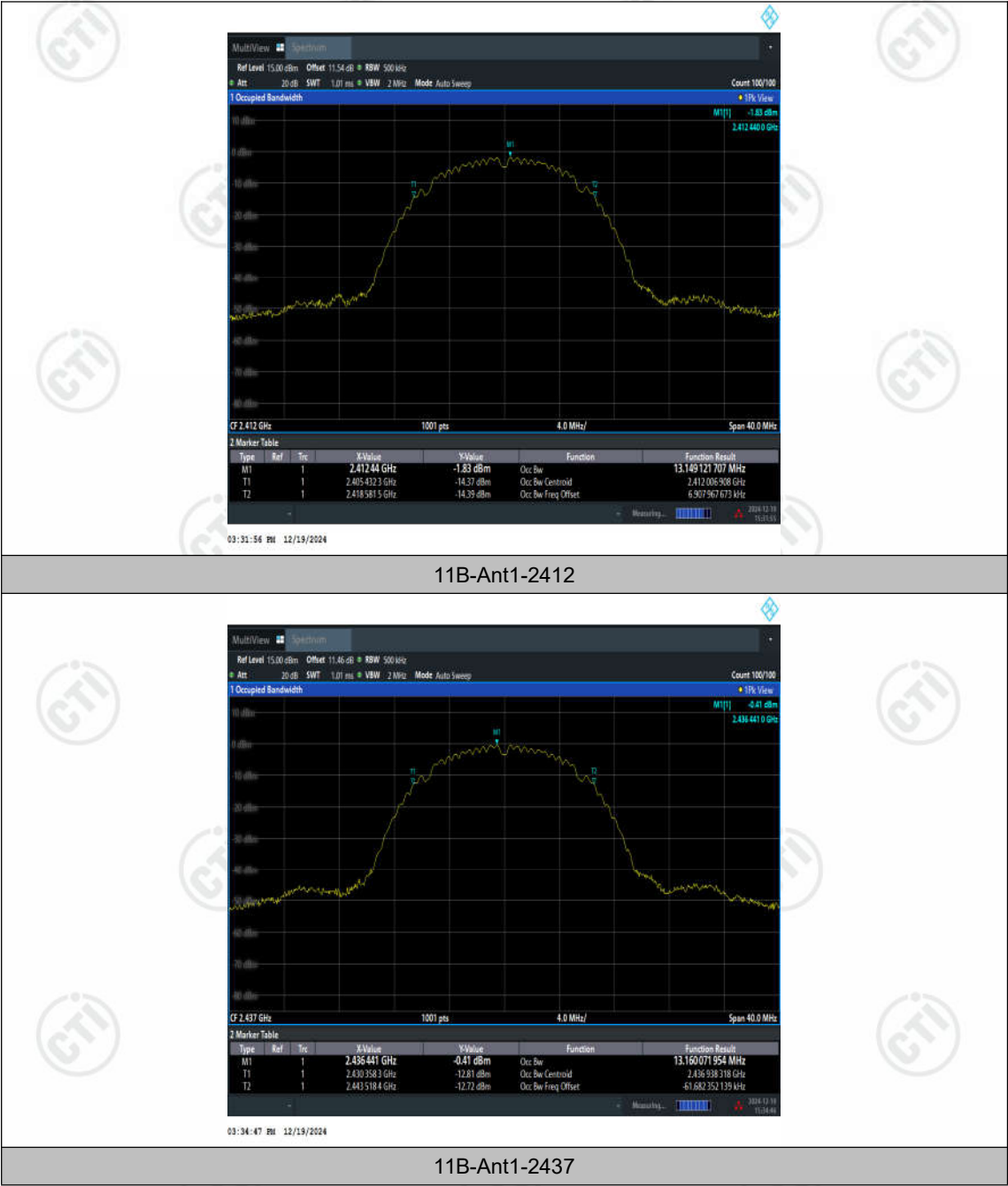


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.149	2405.4323	2418.5815	---	---
11B	Ant1	2437	13.16	2430.3583	2443.5184	---	---
11B	Ant1	2462	13.183	2455.3675	2468.5502	---	---
11G	Ant1	2412	17.743	2403.2352	2420.9783	---	---
11G	Ant1	2437	17.724	2428.1459	2445.8699	---	---
11G	Ant1	2462	17.765	2453.1536	2470.9189	---	---
11N20SISO	Ant1	2412	18.55	2402.7345	2421.2841	---	---
11N20SISO	Ant1	2437	18.556	2427.6573	2446.2132	---	---
11N20SISO	Ant1	2462	18.59	2452.6522	2471.2426	---	---

Test Graphs











Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	6.30	≤30.00	PASS
11B	Ant1	2437	7.66	≤30.00	PASS
11B	Ant1	2462	8.50	≤30.00	PASS
11G	Ant1	2412	5.27	≤30.00	PASS
11G	Ant1	2437	6.08	≤30.00	PASS
11G	Ant1	2462	6.87	≤30.00	PASS
11N20SISO	Ant1	2412	4.38	≤30.00	PASS
11N20SISO	Ant1	2437	6.51	≤30.00	PASS
11N20SISO	Ant1	2462	7.23	≤30.00	PASS

Note:The test data has been added Duty Cycle Factor[dB];

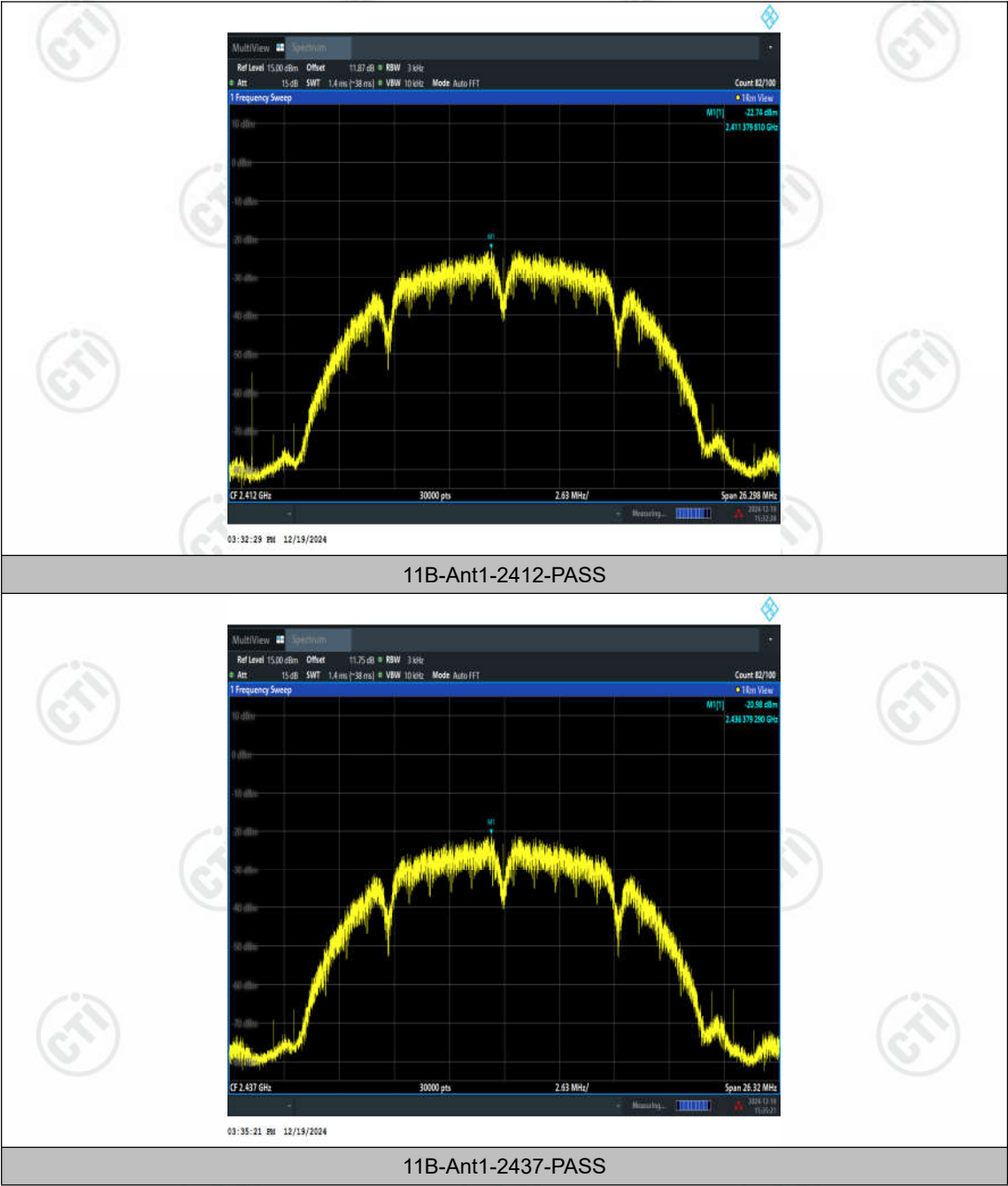
Appendix D: Maximum power spectral density

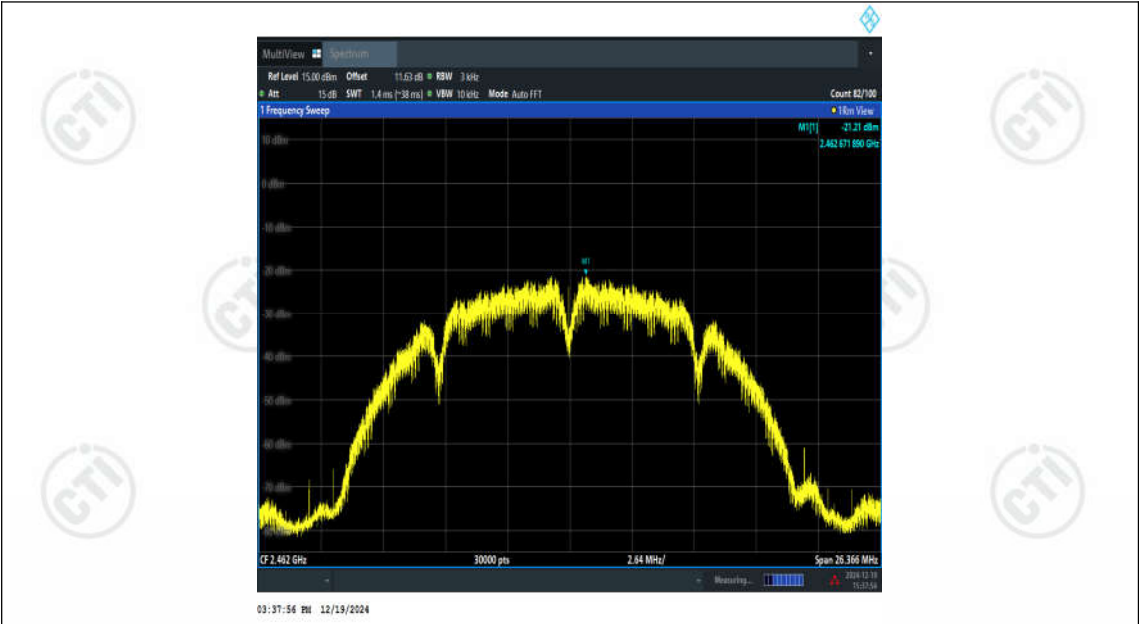
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-22.74	≤8.00	PASS
11B	Ant1	2437	-20.98	≤8.00	PASS
11B	Ant1	2462	-21.21	≤8.00	PASS
11G	Ant1	2412	-24.24	≤8.00	PASS
11G	Ant1	2437	-23.60	≤8.00	PASS
11G	Ant1	2462	-23.60	≤8.00	PASS
11N20SISO	Ant1	2412	-25.55	≤8.00	PASS
11N20SISO	Ant1	2437	-22.73	≤8.00	PASS
11N20SISO	Ant1	2462	-22.60	≤8.00	PASS

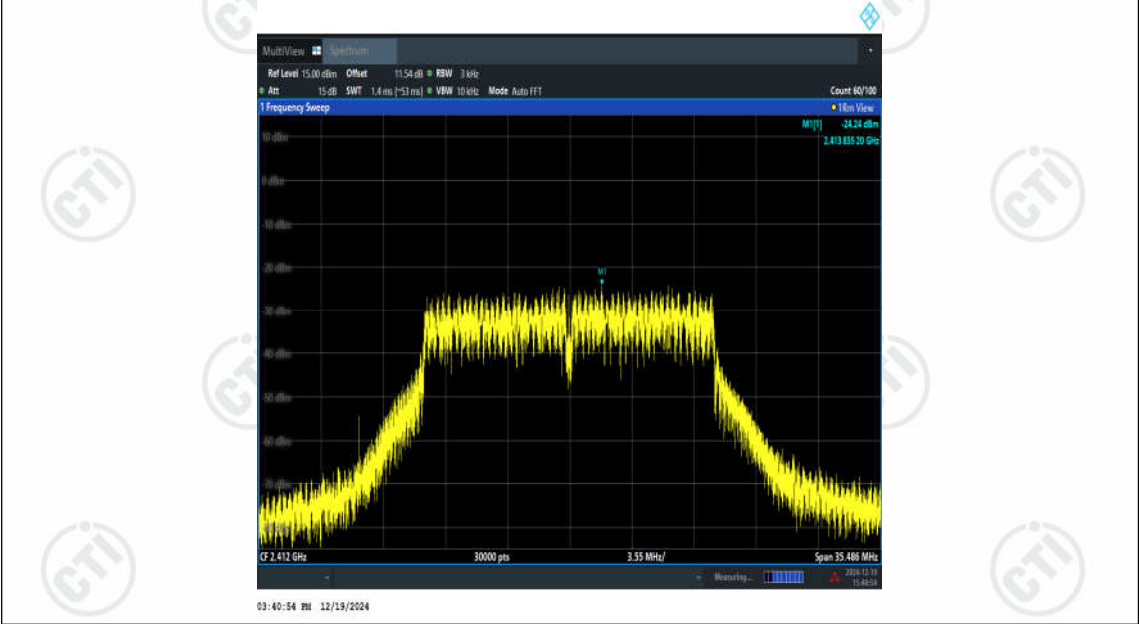
Note:The test data has been added Duty Cycle Factor[dB];

Test Graphs

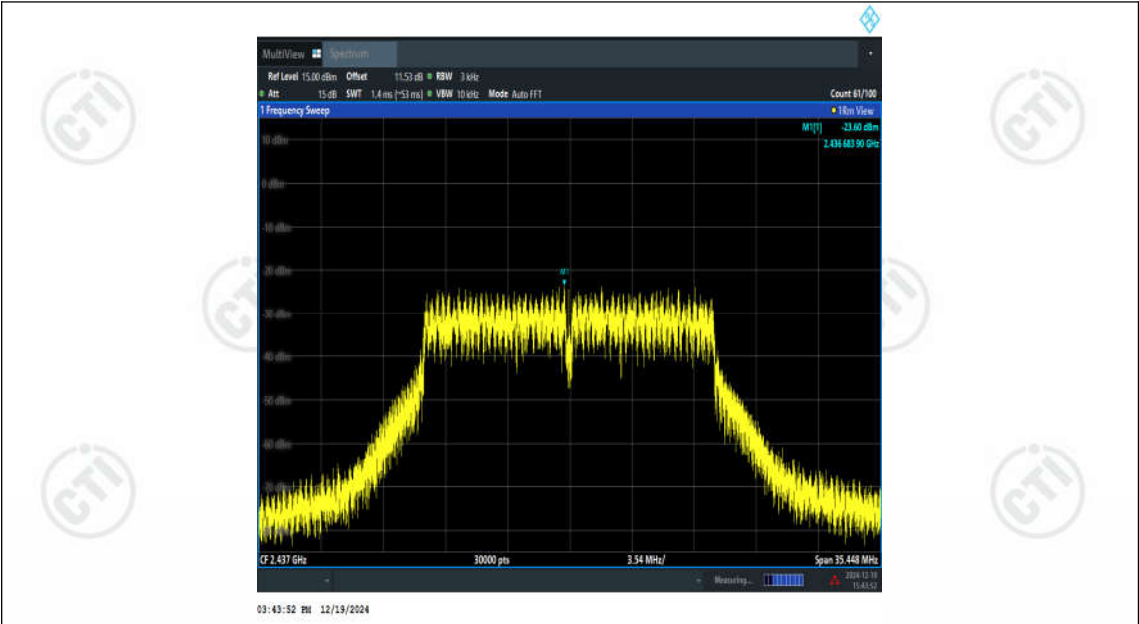




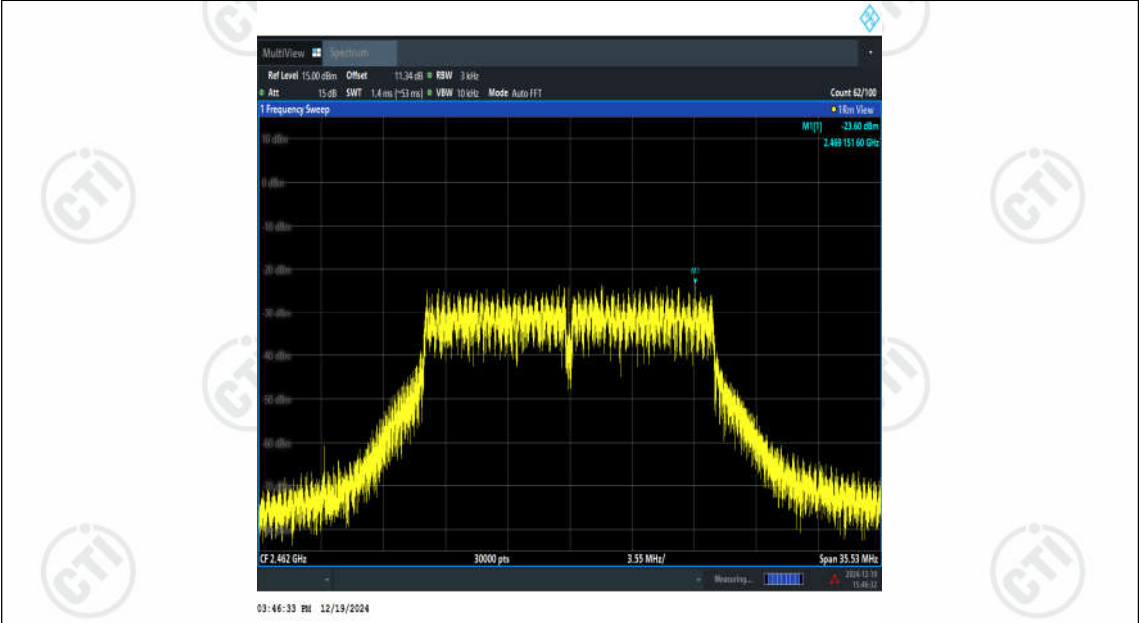
11B-Ant1-2462-PASS



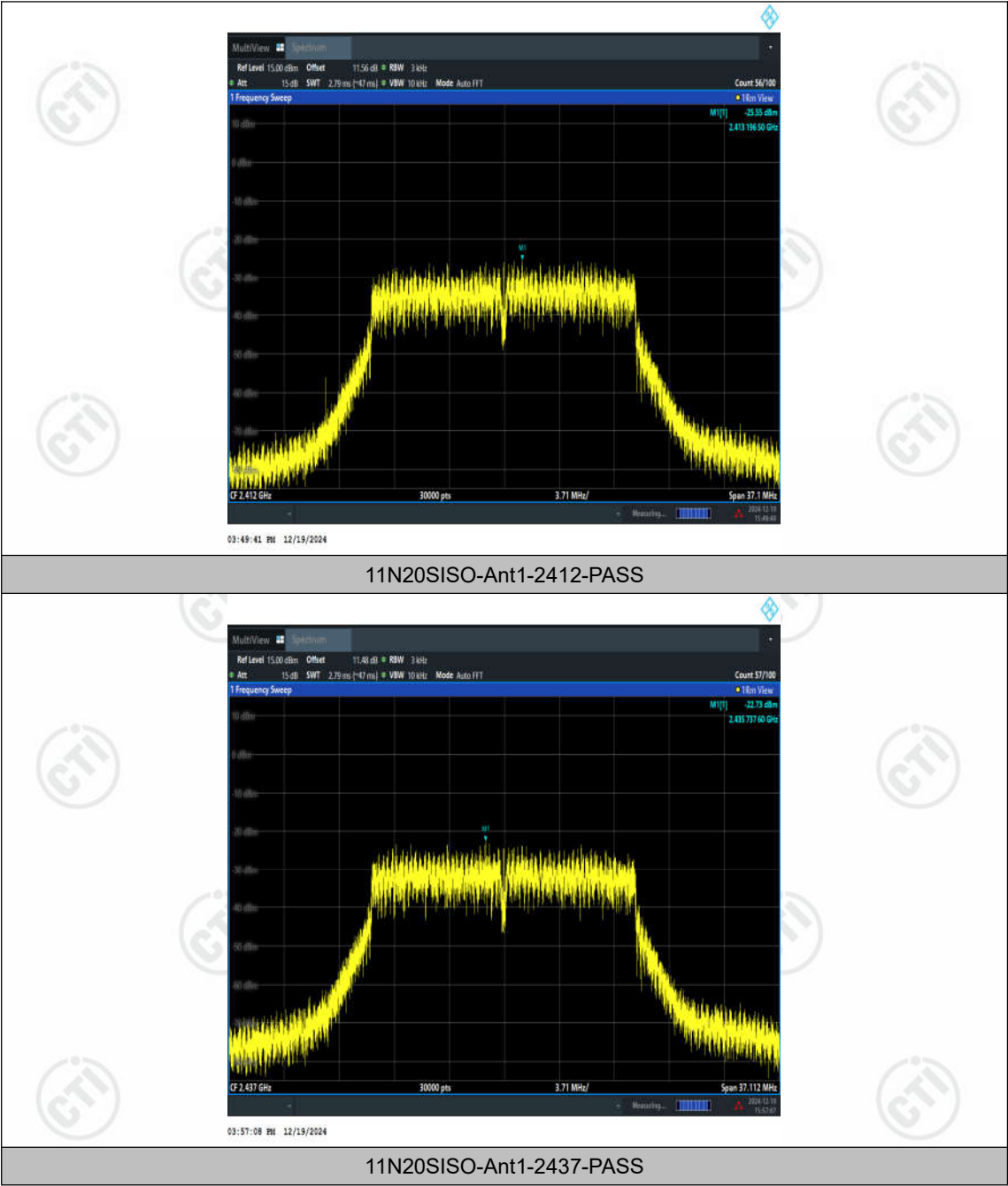
11G-Ant1-2412-PASS

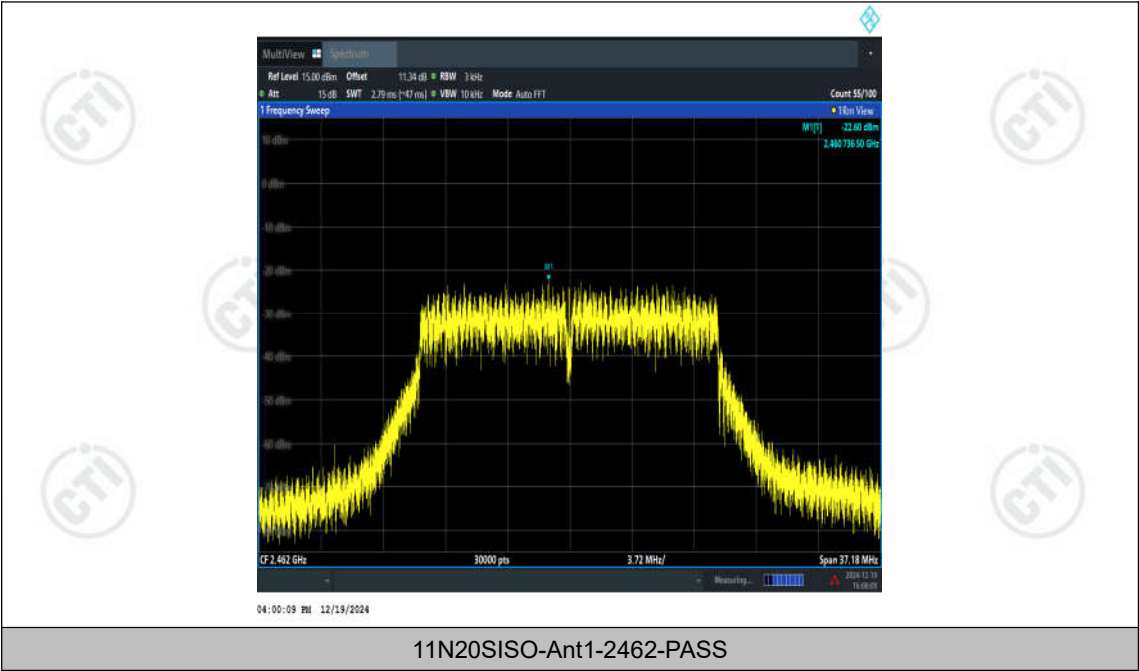


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS





Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-2.96	-45.23	≤-32.96	PASS
11B	Ant1	High	2462	-1.35	-48.62	≤-31.35	PASS
11G	Ant1	Low	2412	-5.75	-42.62	≤-35.75	PASS
11G	Ant1	High	2462	-4.75	-48.85	≤-34.75	PASS
11N20SISO	Ant1	Low	2412	-6.50	-42.10	≤-36.5	PASS
11N20SISO	Ant1	High	2462	-4.24	-47.13	≤-34.24	PASS

Test Graphs





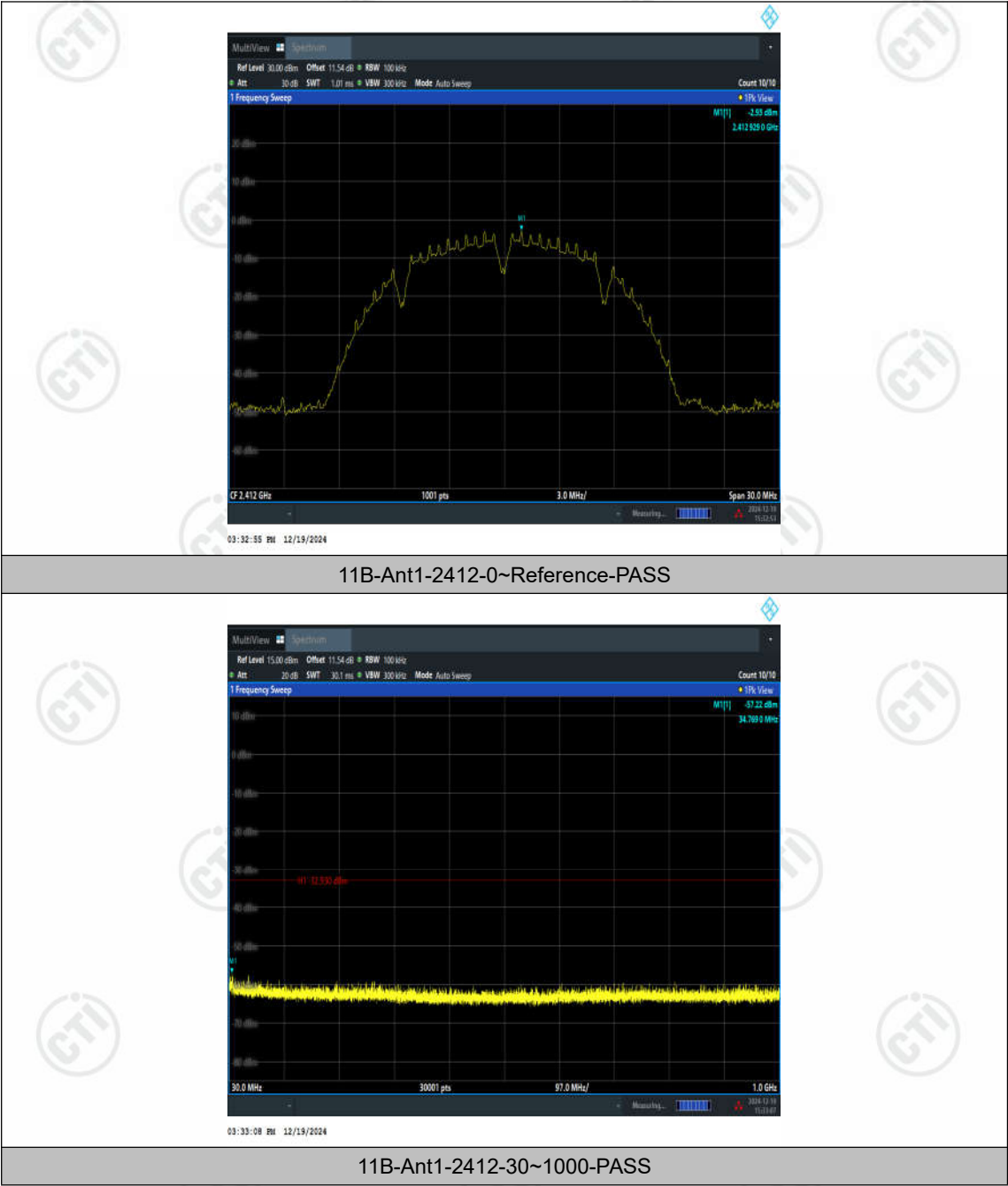


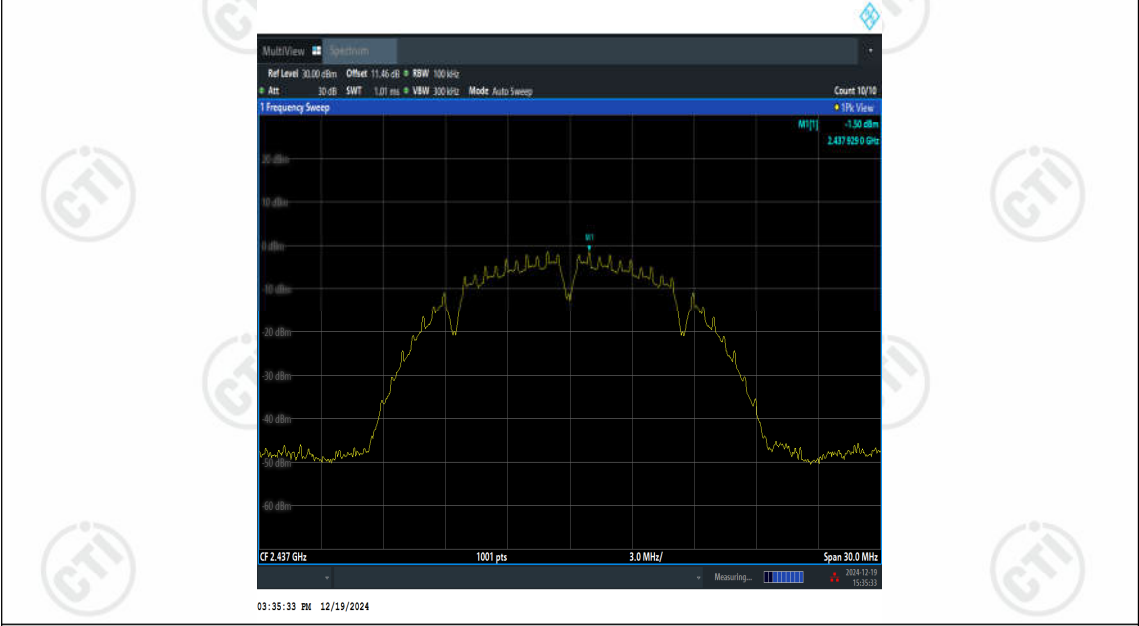
Appendix F: Conducted Spurious Emission

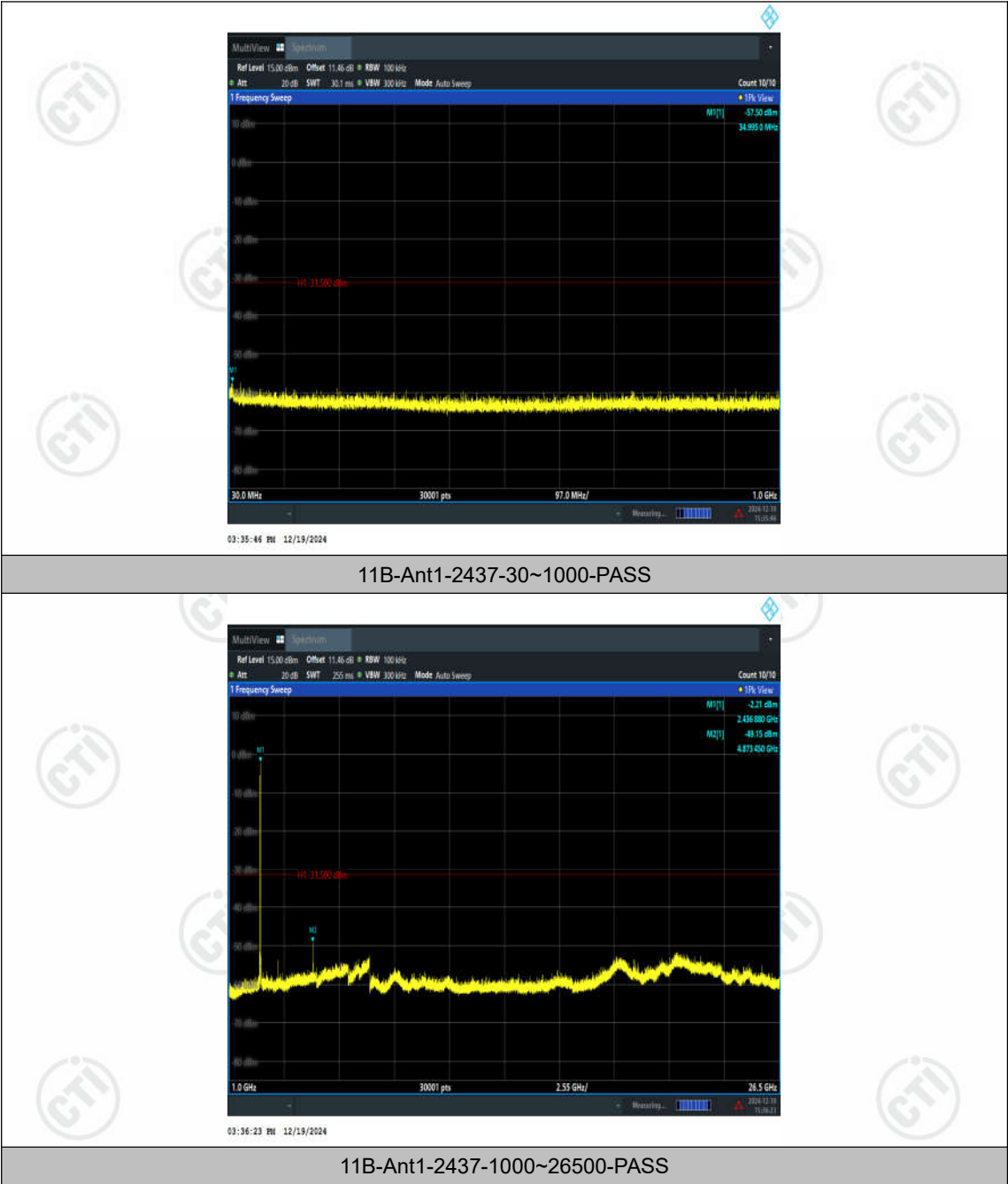
Test Result

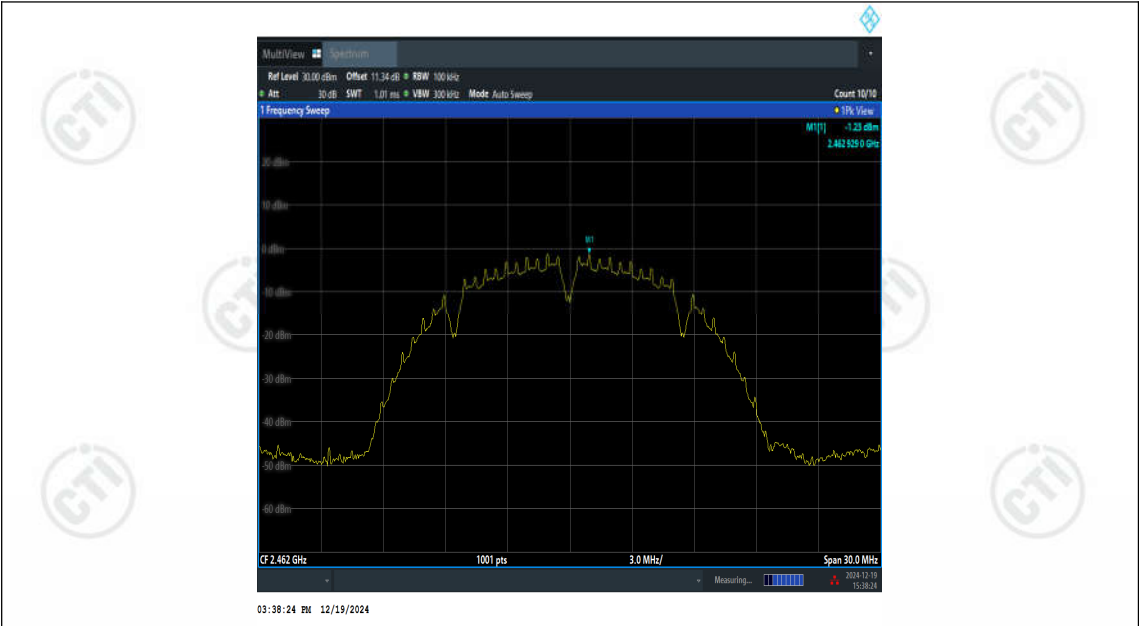
TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLeve I [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-2.93	-2.93	---	PASS
11B	Ant1	2412	30~1000	-2.93	-57.22	≤-32.93	PASS
11B	Ant1	2412	1000~26500	-2.93	-50.2	≤-32.93	PASS
11B	Ant1	2437	0~Reference	-1.50	-1.50	---	PASS
11B	Ant1	2437	30~1000	-1.50	-57.5	≤-31.5	PASS
11B	Ant1	2437	1000~26500	-1.50	-49.15	≤-31.5	PASS
11B	Ant1	2462	0~Reference	-1.23	-1.23	---	PASS
11B	Ant1	2462	30~1000	-1.23	-58.18	≤-31.23	PASS
11B	Ant1	2462	1000~26500	-1.23	-48.63	≤-31.23	PASS
11G	Ant1	2412	0~Reference	-5.61	-5.61	---	PASS
11G	Ant1	2412	30~1000	-5.61	-56.85	≤-35.61	PASS
11G	Ant1	2412	1000~26500	-5.61	-51.69	≤-35.61	PASS
11G	Ant1	2437	0~Reference	-5.07	-5.07	---	PASS
11G	Ant1	2437	30~1000	-5.07	-58.38	≤-35.07	PASS
11G	Ant1	2437	1000~26500	-5.07	-47.15	≤-35.07	PASS
11G	Ant1	2462	0~Reference	-4.70	-4.70	---	PASS
11G	Ant1	2462	30~1000	-4.70	-57.92	≤-34.7	PASS
11G	Ant1	2462	1000~26500	-4.70	-51.07	≤-34.7	PASS
11N20SISO	Ant1	2412	0~Reference	-6.26	-6.26	---	PASS
11N20SISO	Ant1	2412	30~1000	-6.26	-57.05	≤-36.26	PASS
11N20SISO	Ant1	2412	1000~26500	-6.26	-52.14	≤-36.26	PASS
11N20SISO	Ant1	2437	0~Reference	-4.52	-4.52	---	PASS
11N20SISO	Ant1	2437	30~1000	-4.52	-58.4	≤-34.52	PASS
11N20SISO	Ant1	2437	1000~26500	-4.52	-51.69	≤-34.52	PASS
11N20SISO	Ant1	2462	0~Reference	-4.20	-4.20	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.20	-58.39	≤-34.2	PASS
11N20SISO	Ant1	2462	1000~26500	-4.20	-51.63	≤-34.2	PASS

Test Graphs

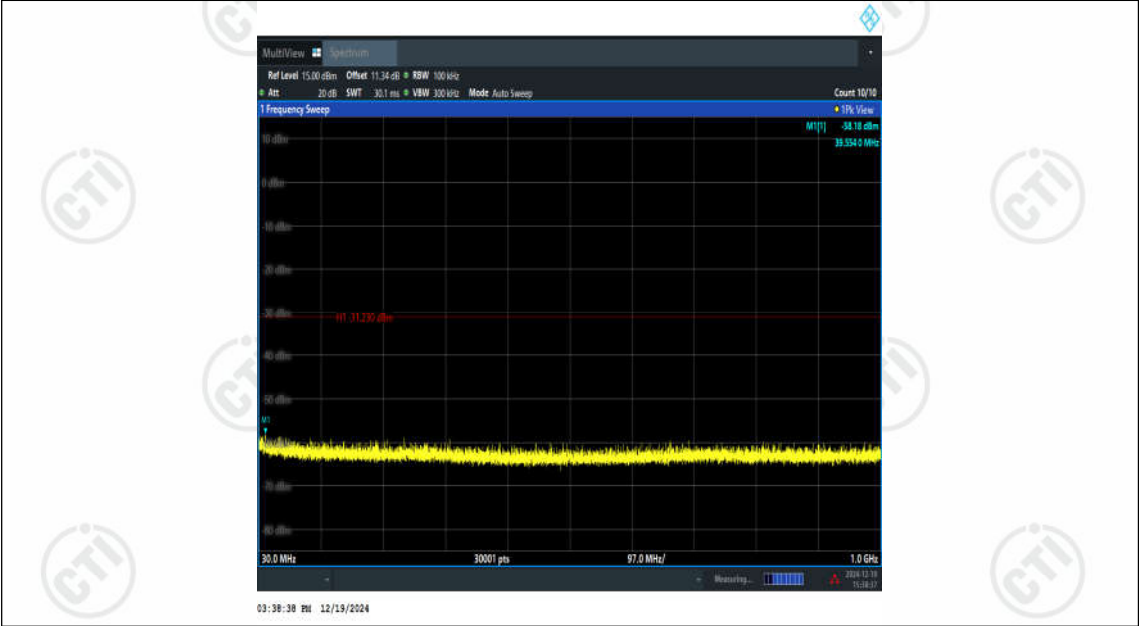




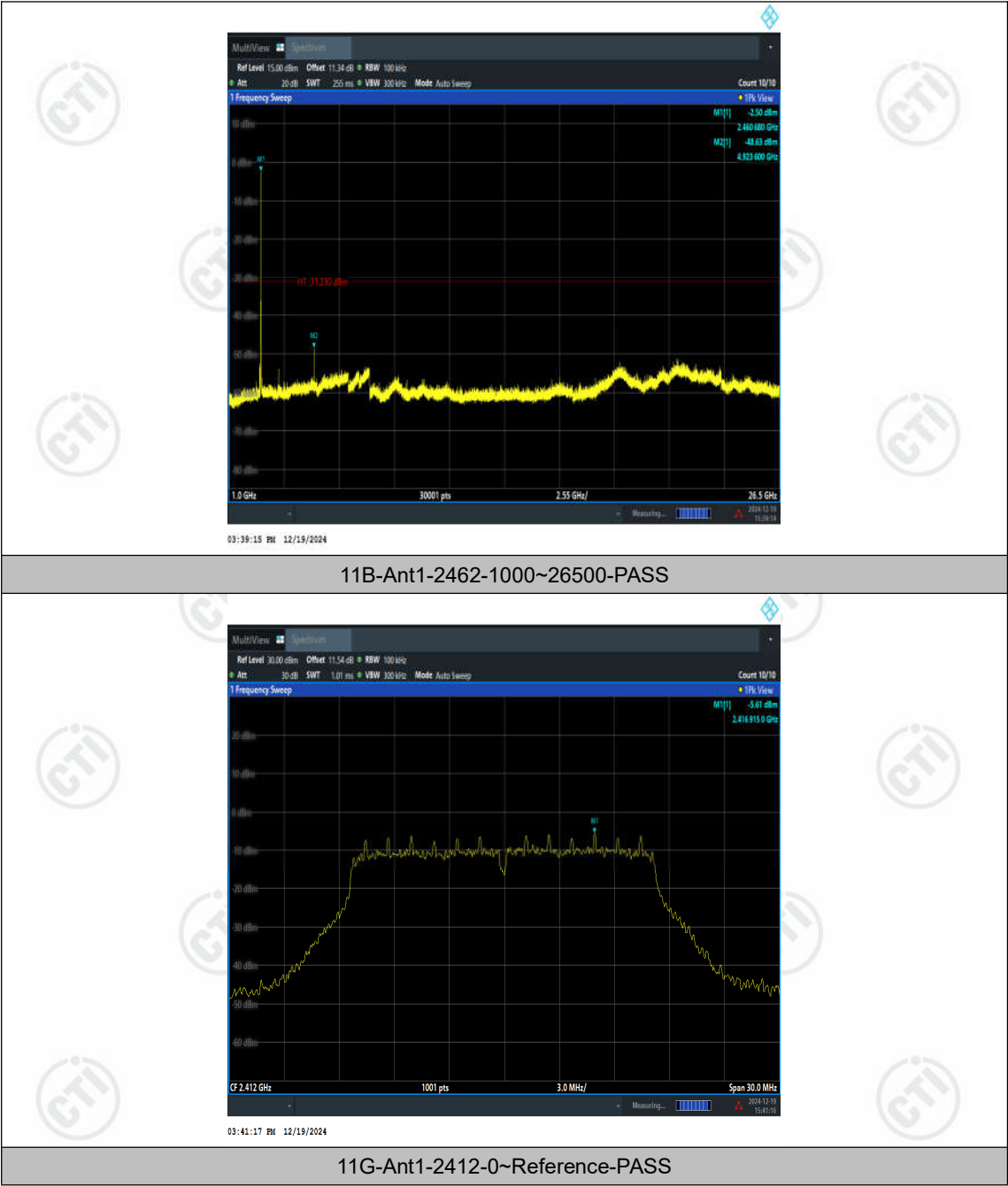


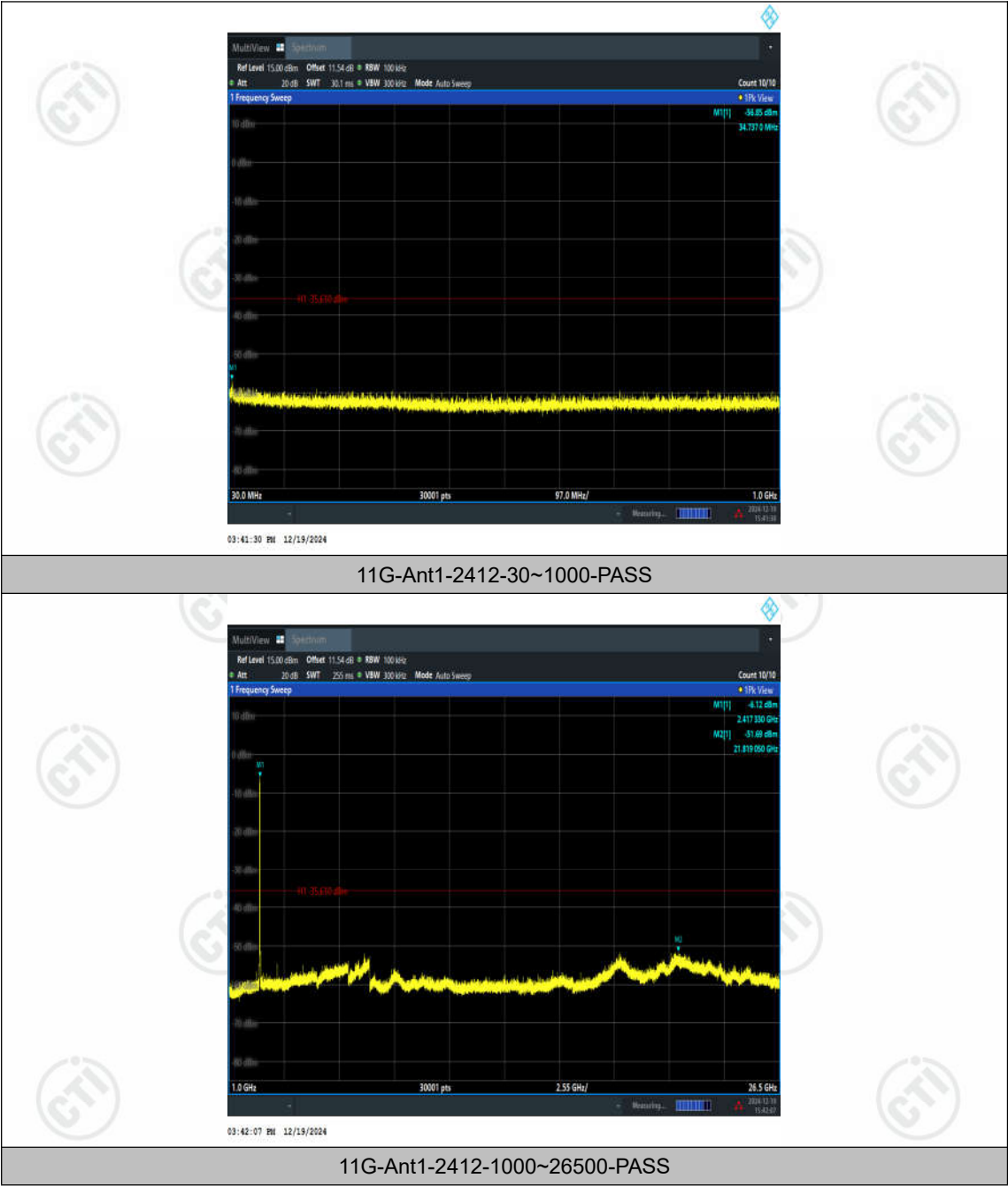


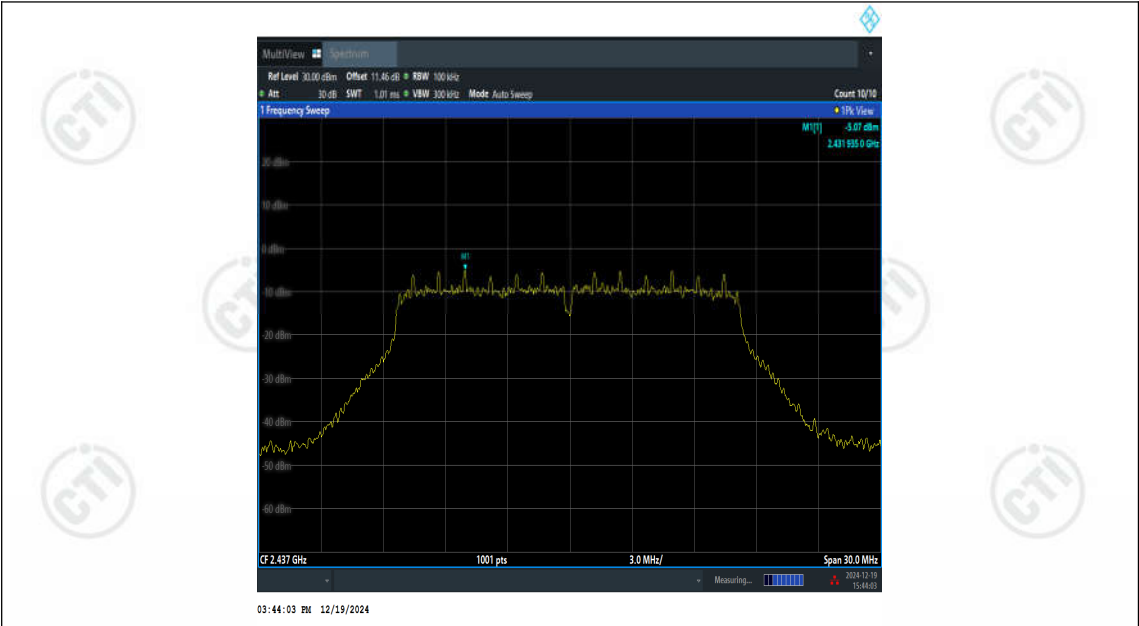
11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS







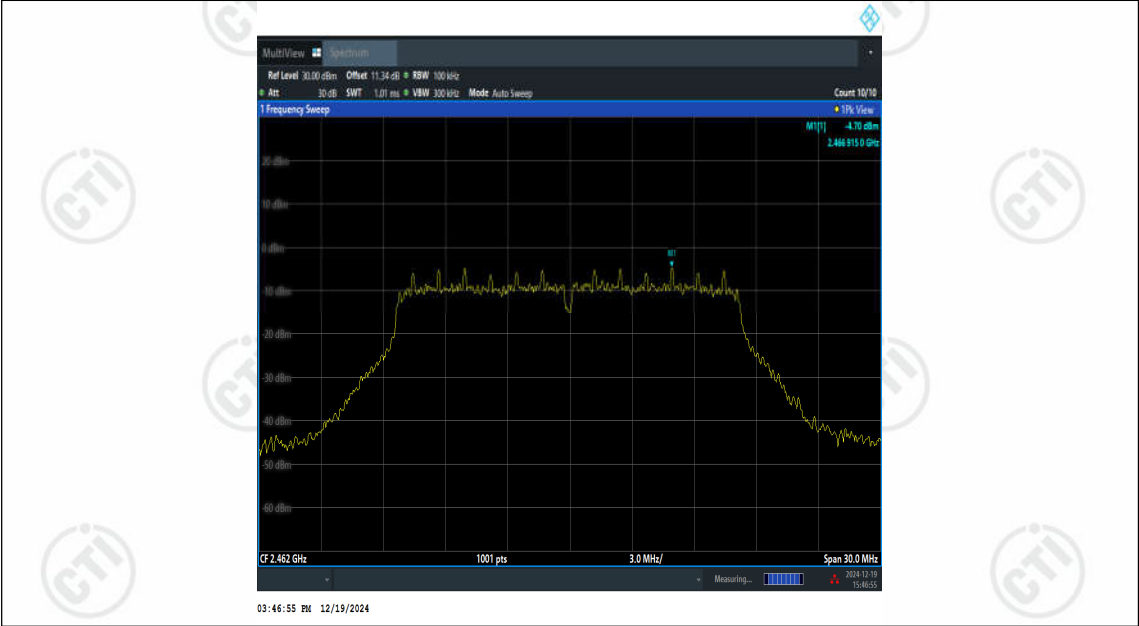
11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



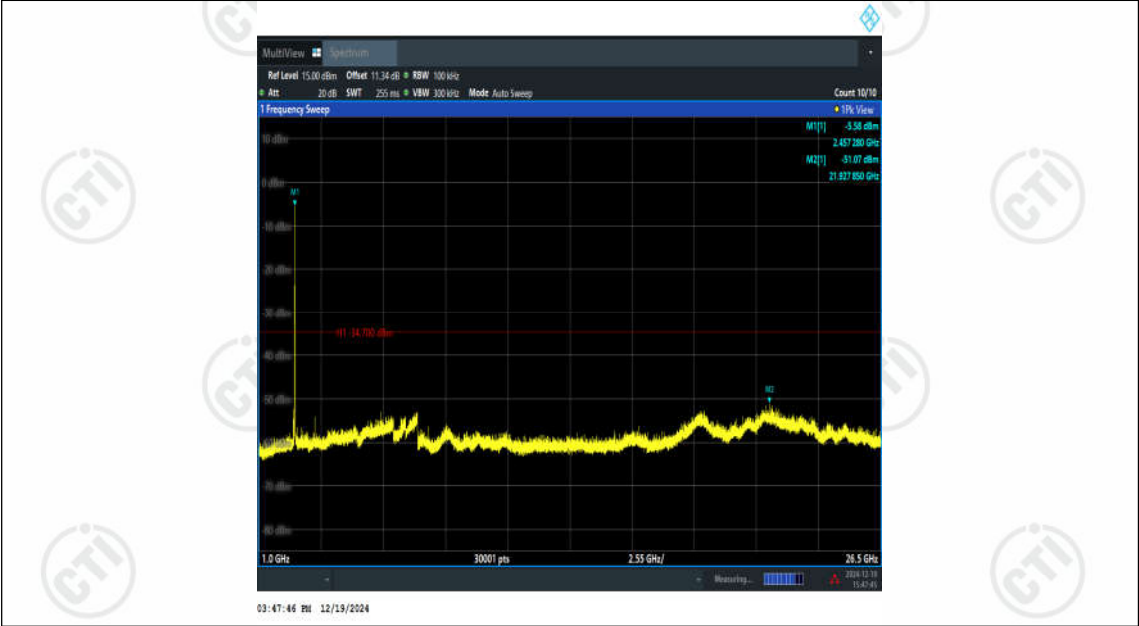
11G-Ant1-2437-1000~26500-PASS



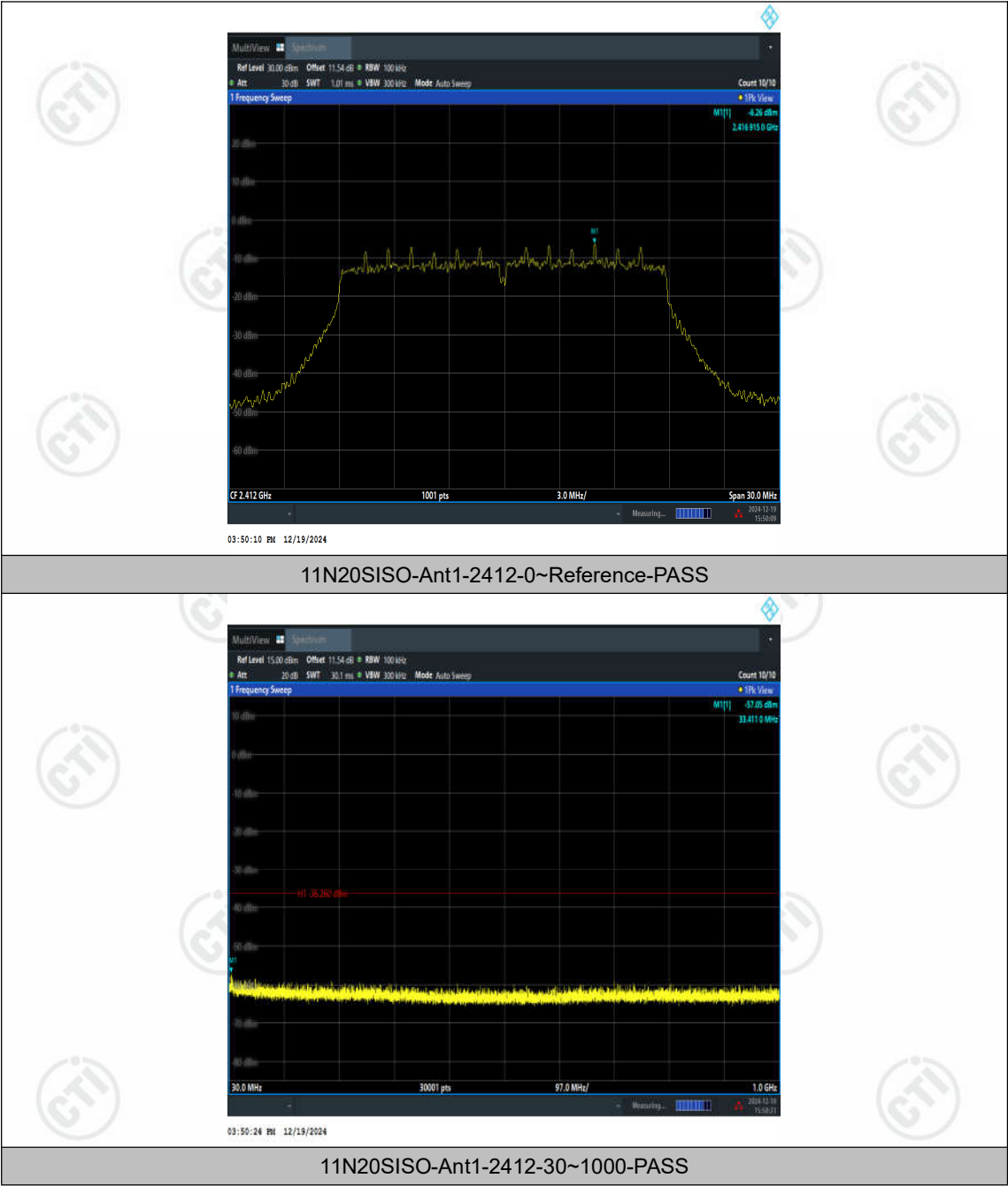
11G-Ant1-2462-0~Reference-PASS

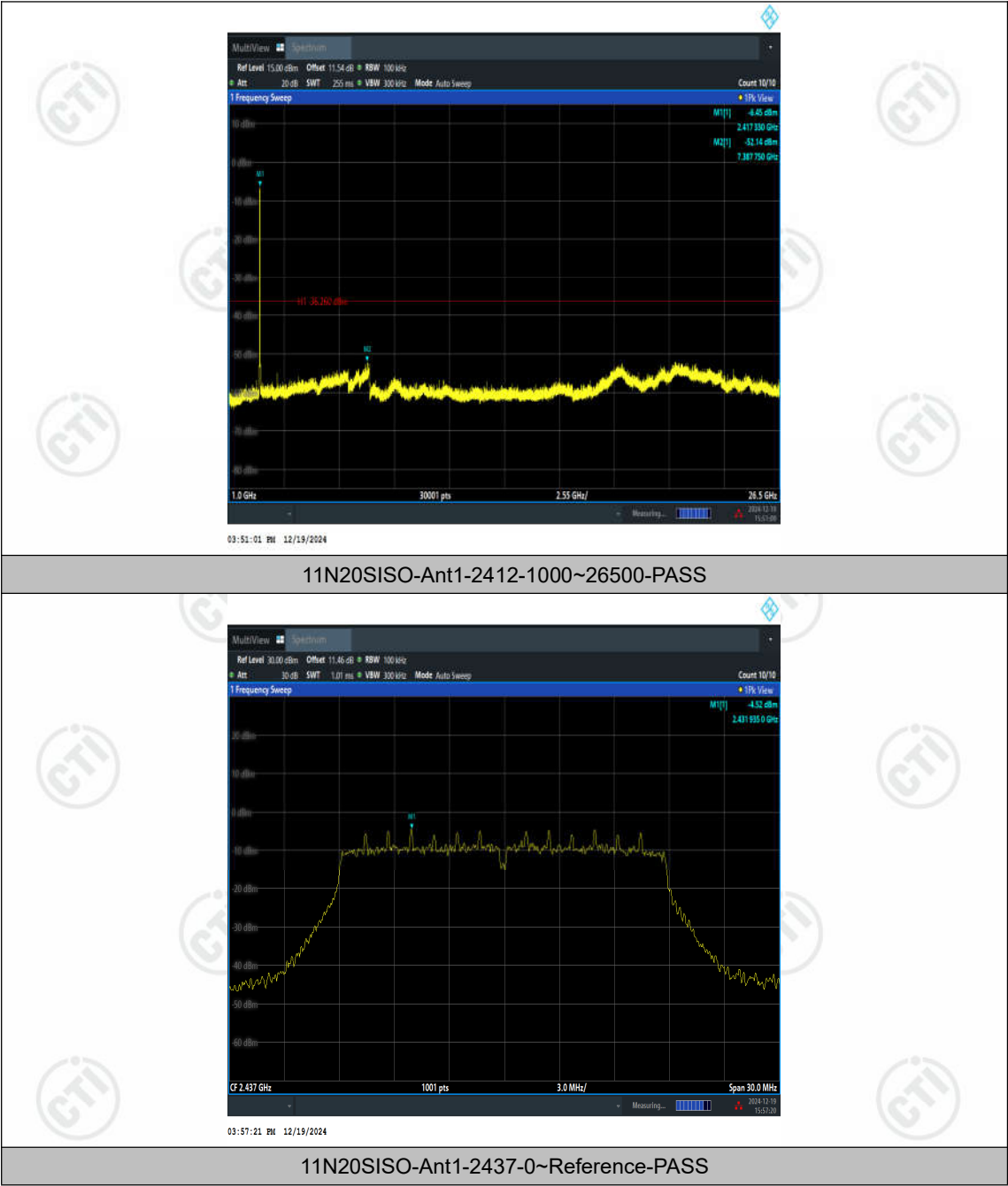


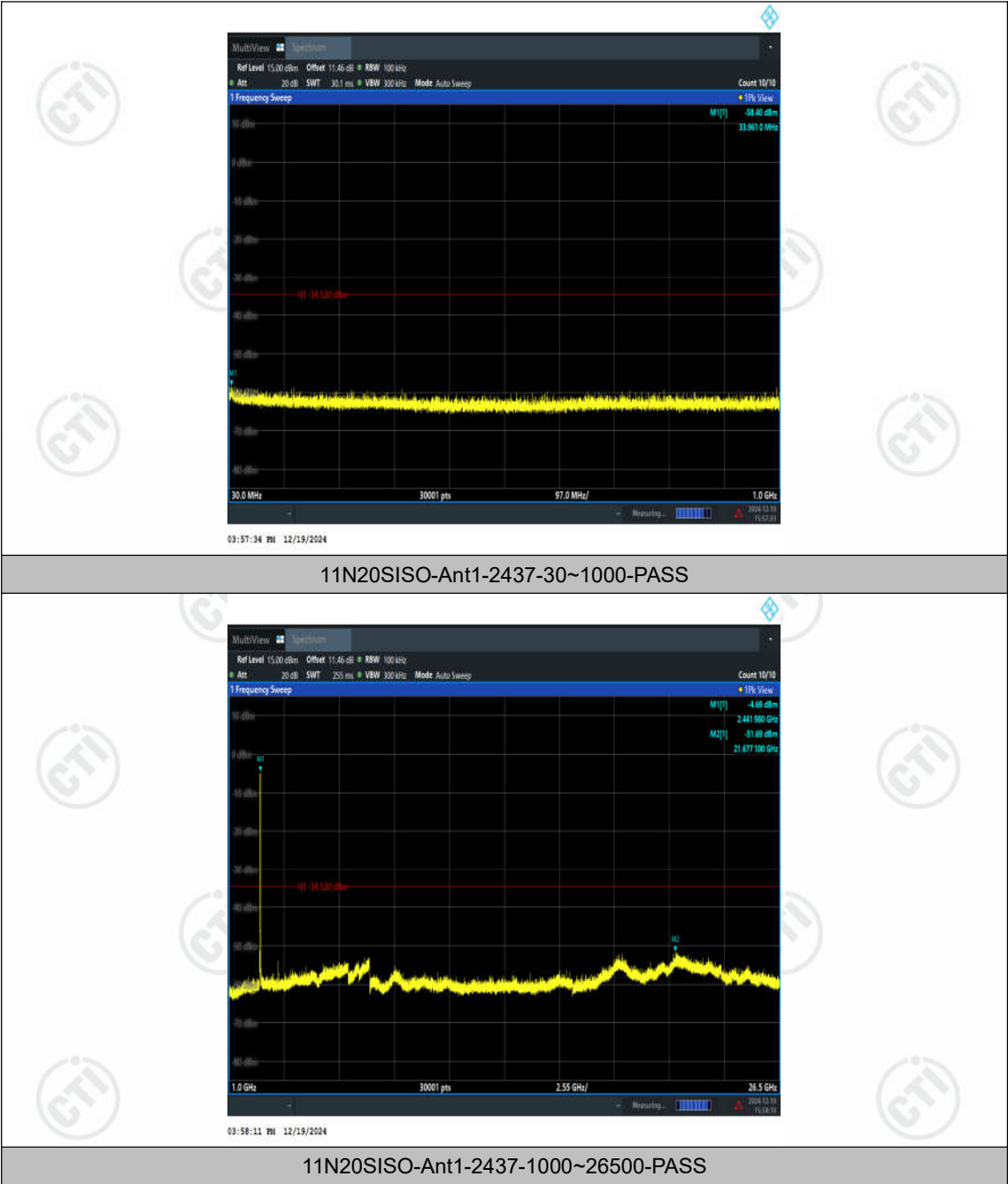
11G-Ant1-2462-30~1000-PASS

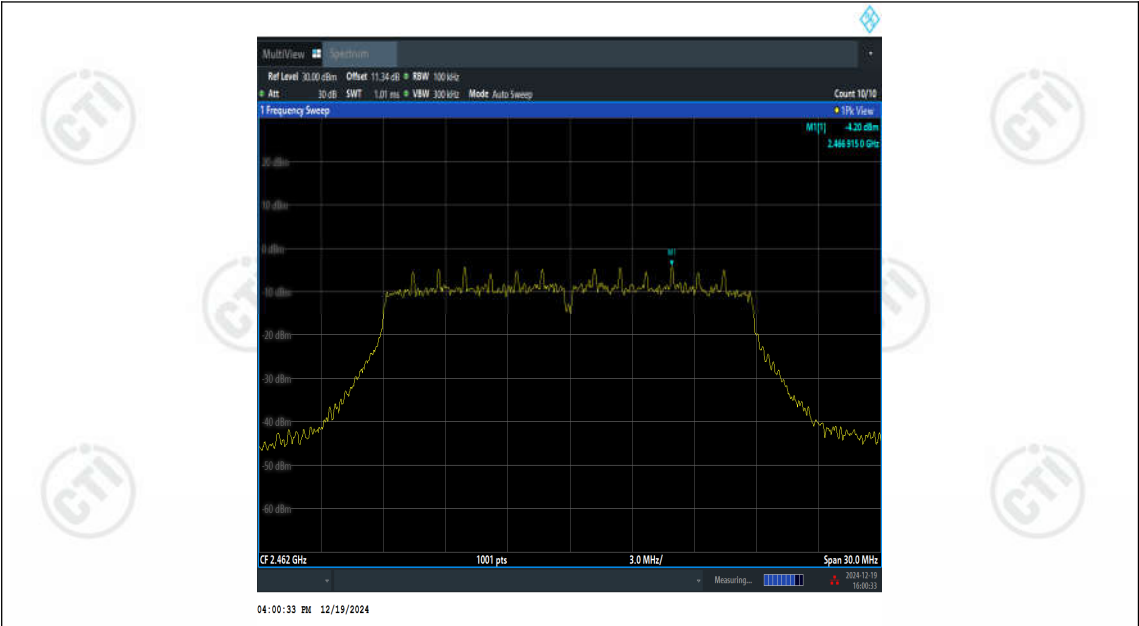


11G-Ant1-2462-1000~26500-PASS

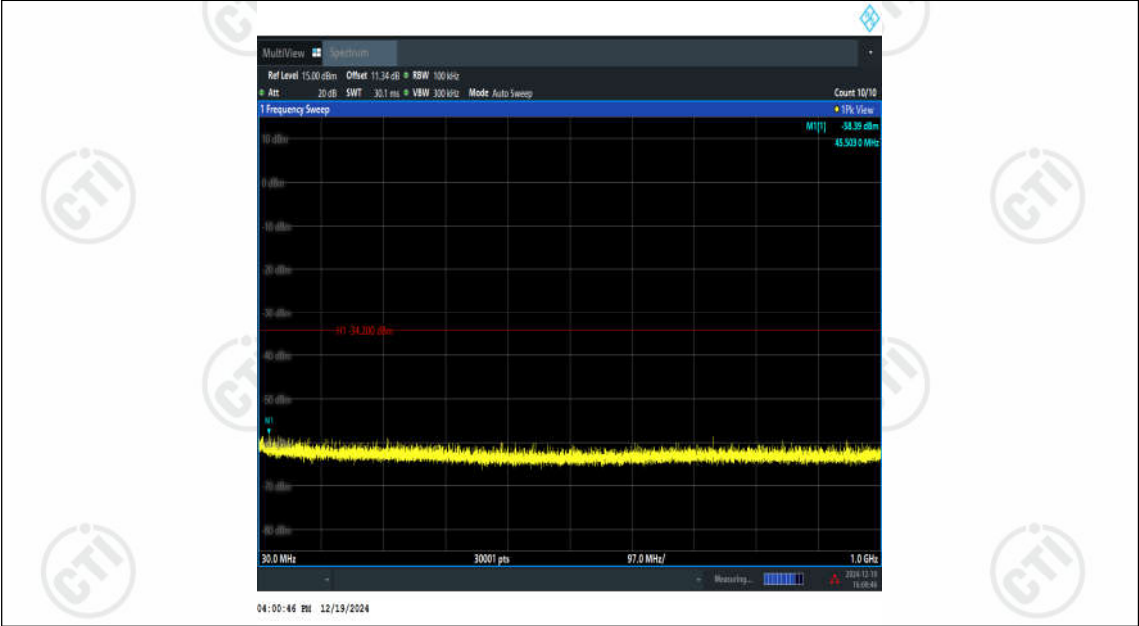




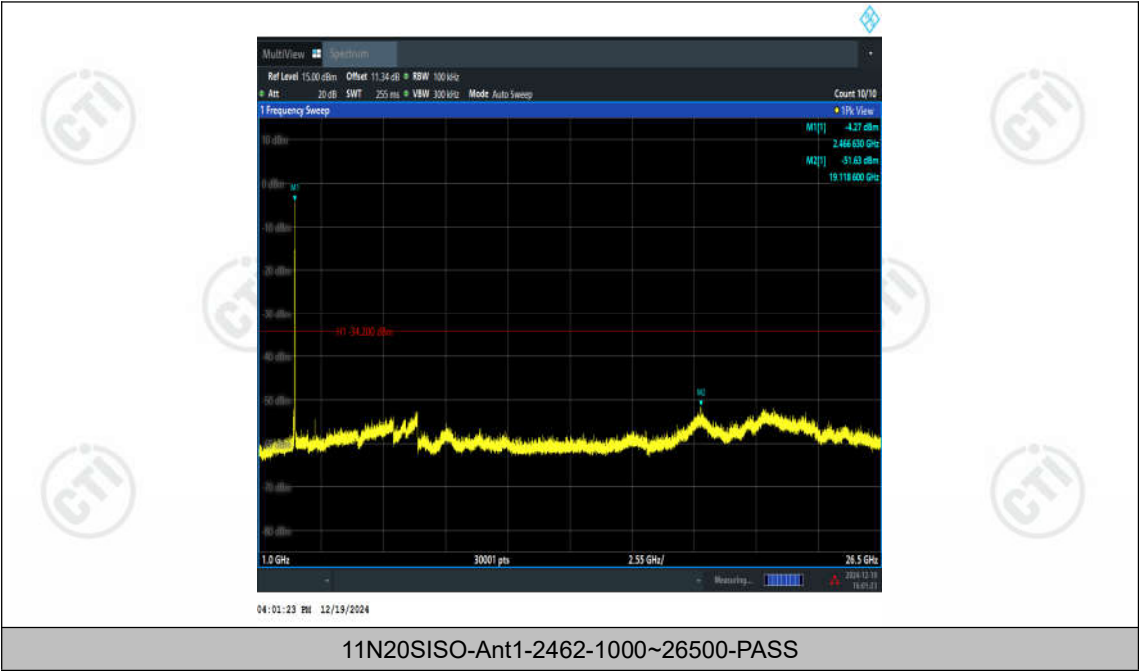




11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



Appendix G: Duty Cycle

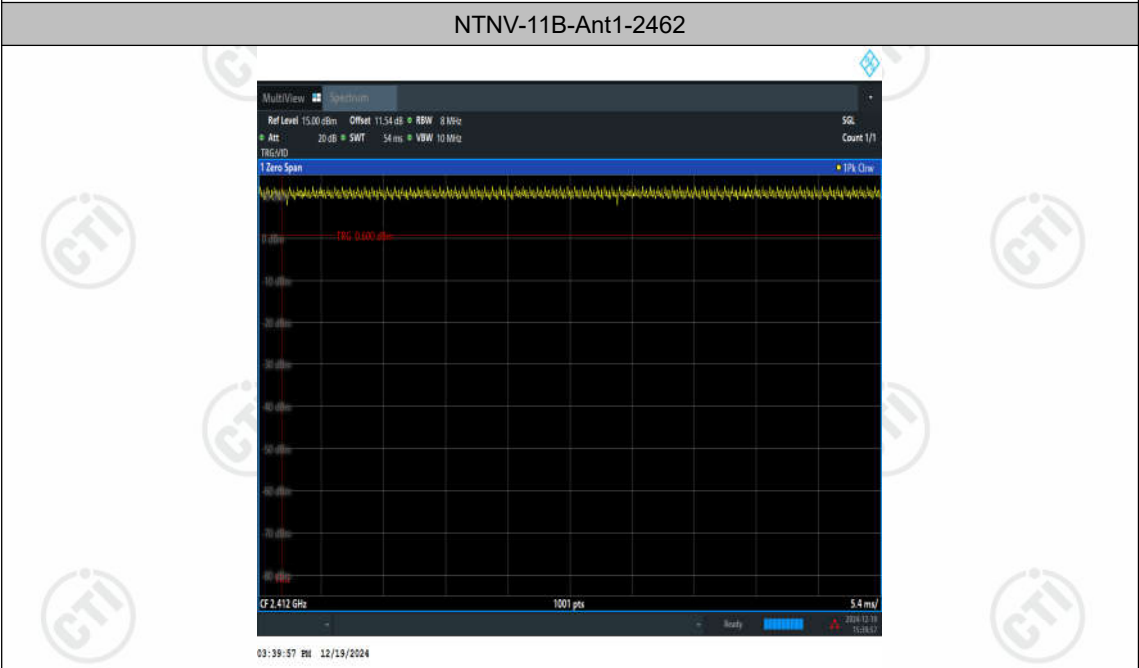
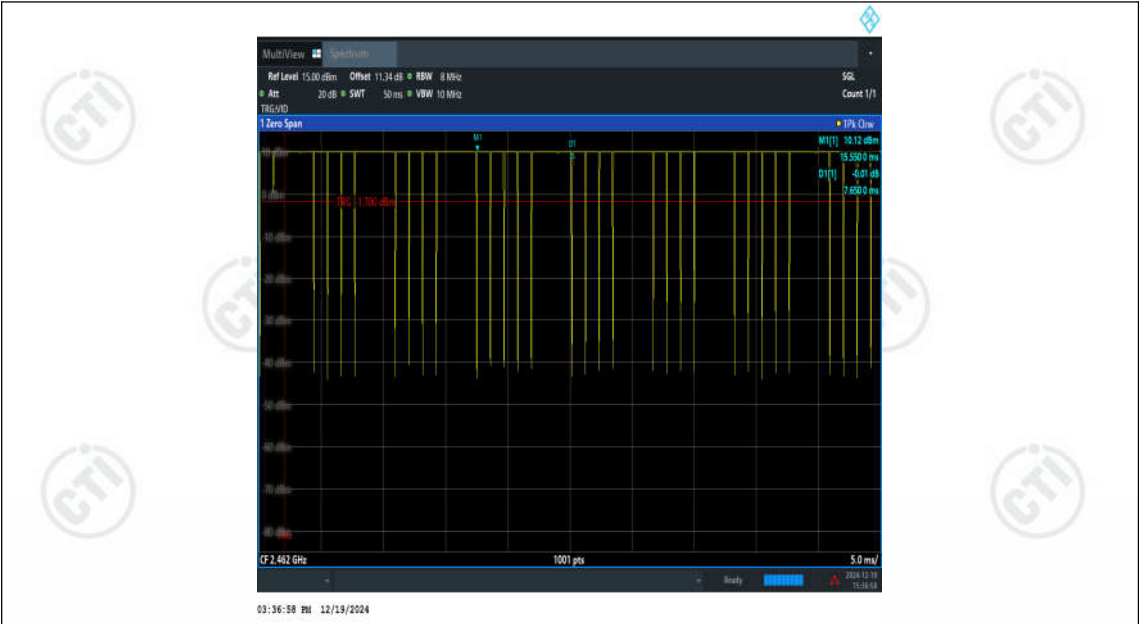
Test Result

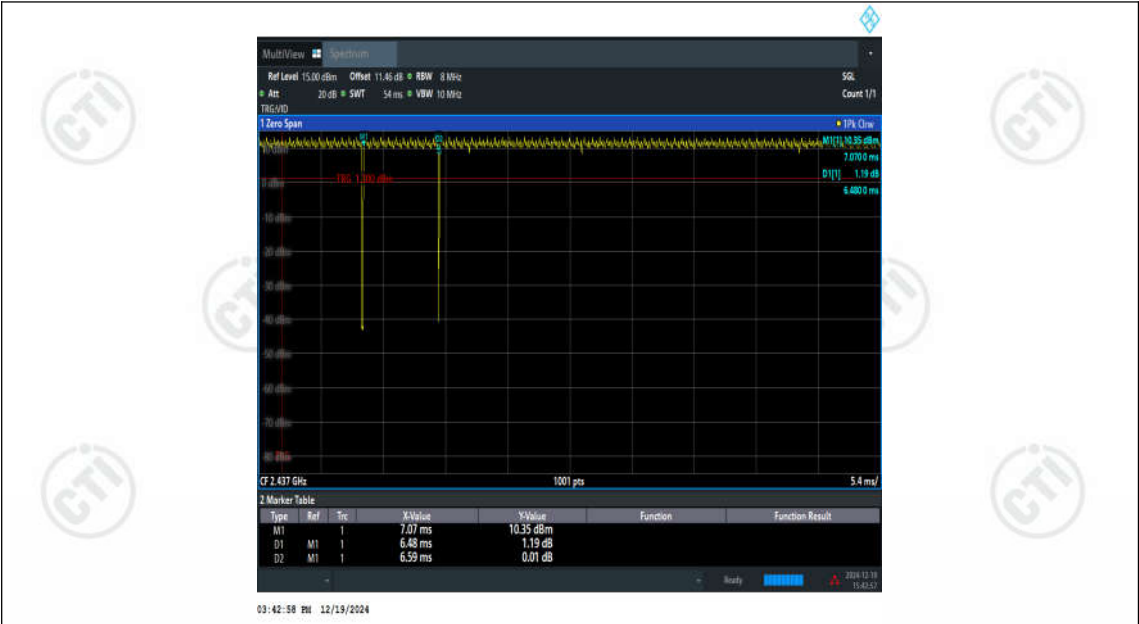
TestMode	Antenn a	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
11B	Ant1	2412	5.10	5.50	92.73	0.33
11B	Ant1	2437	7.15	7.65	93.46	0.29
11B	Ant1	2462	7.15	7.65	93.46	0.29
11G	Ant1	2412	54.00	54.00	100.00	0.00
11G	Ant1	2437	6.48	6.59	98.33	0.07
11G	Ant1	2462	54.00	54.00	100.00	0.00
11N20SISO	Ant1	2412	27.16	27.27	99.60	0.02
11N20SISO	Ant1	2437	22.62	22.73	99.52	0.02
11N20SISO	Ant1	2462	54.00	54.00	100.00	0.00

Note:Duty Cycle Factor[dB]=-10*Ig(Duty Cycle);

Test Graphs







NTNV-11G-Ant1-2437



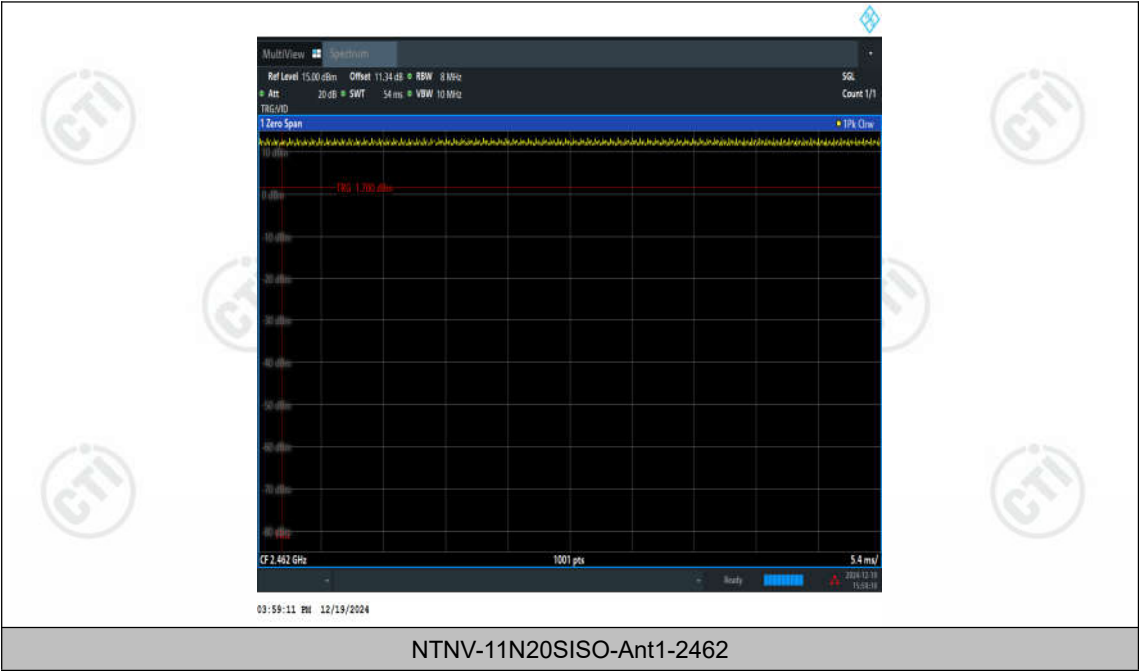
NTNV-11G-Ant1-2462



NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



END OF REPORT