

Appendix: 2.4G Wi-Fi

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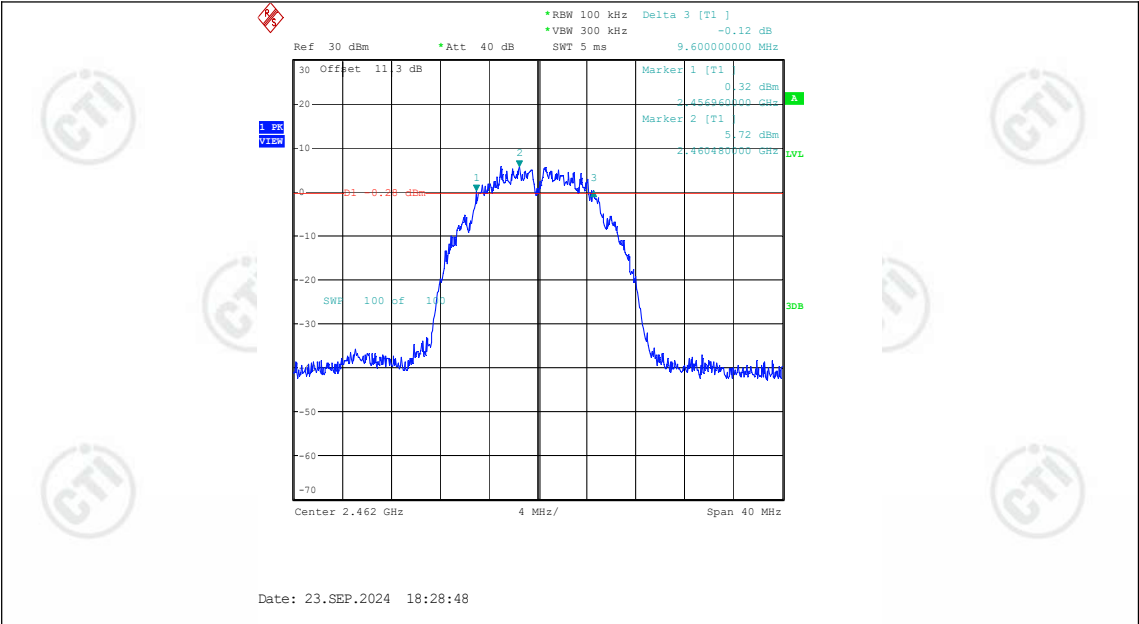
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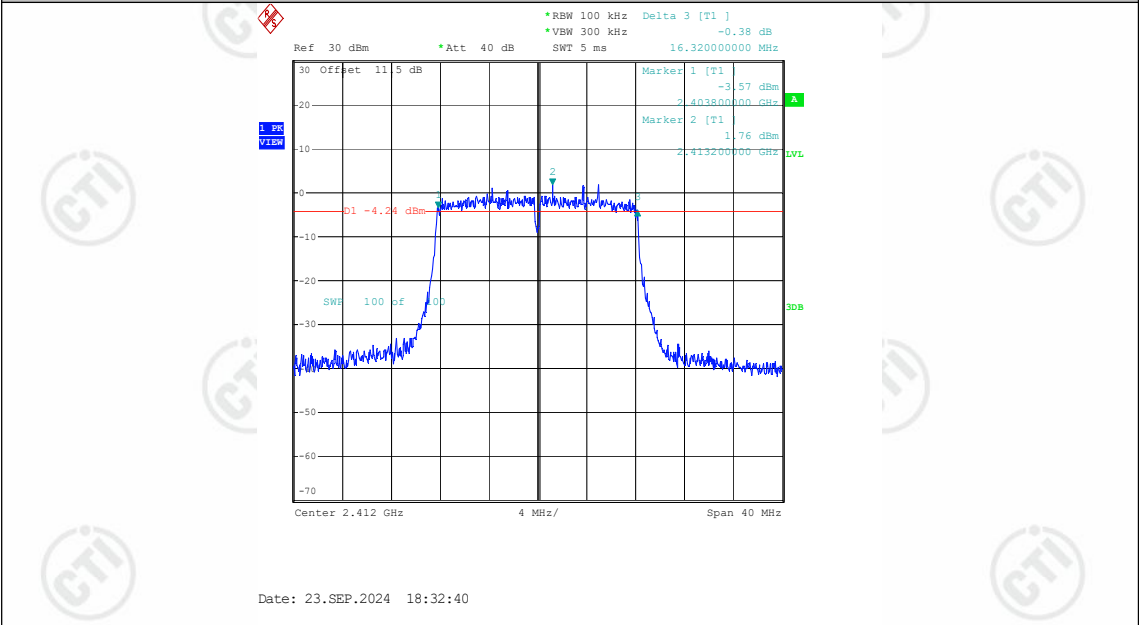
Appendix A: DTS Bandwidth

Test Result

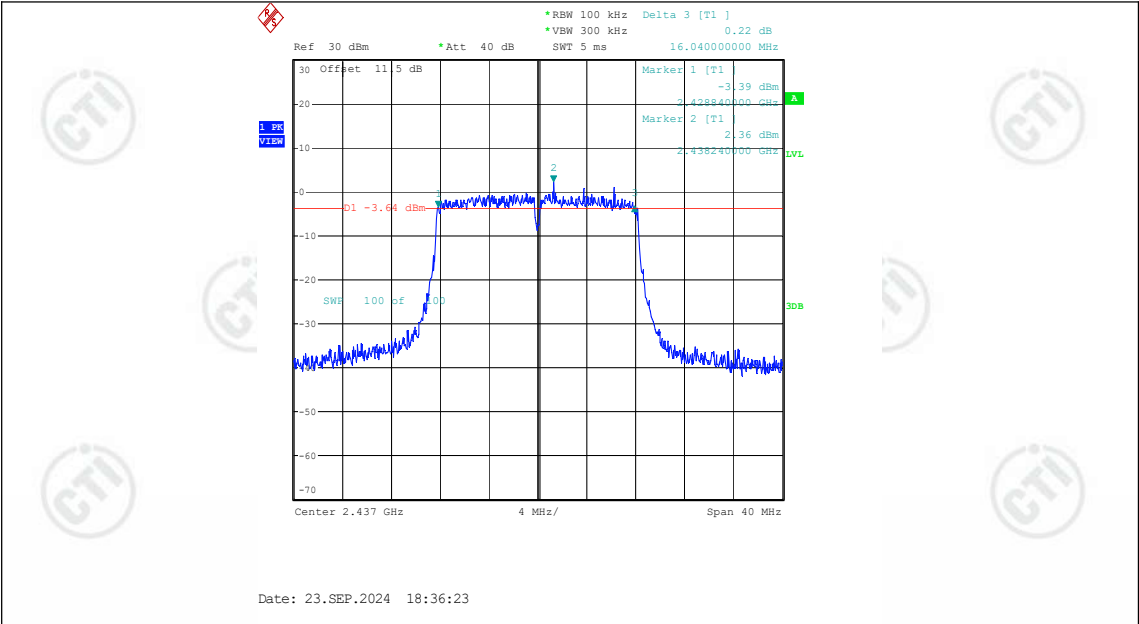
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.48	2407.00	2416.48	0.5	PASS
11B	Ant1	2437	10.08	2431.92	2442.00	0.5	PASS
11B	Ant1	2462	9.60	2456.96	2466.56	0.5	PASS
11G	Ant1	2412	16.32	2403.80	2420.12	0.5	PASS
11G	Ant1	2437	16.04	2428.84	2444.88	0.5	PASS
11G	Ant1	2462	16.32	2453.80	2470.12	0.5	PASS
11N20SISO	Ant1	2412	17.16	2403.36	2420.52	0.5	PASS
11N20SISO	Ant1	2437	16.28	2428.84	2445.12	0.5	PASS
11N20SISO	Ant1	2462	16.80	2453.56	2470.36	0.5	PASS
11N40SISO	Ant1	2422	34.00	2404.64	2438.64	0.5	PASS
11N40SISO	Ant1	2437	33.92	2419.40	2453.32	0.5	PASS
11N40SISO	Ant1	2452	31.28	2436.56	2467.84	0.5	PASS



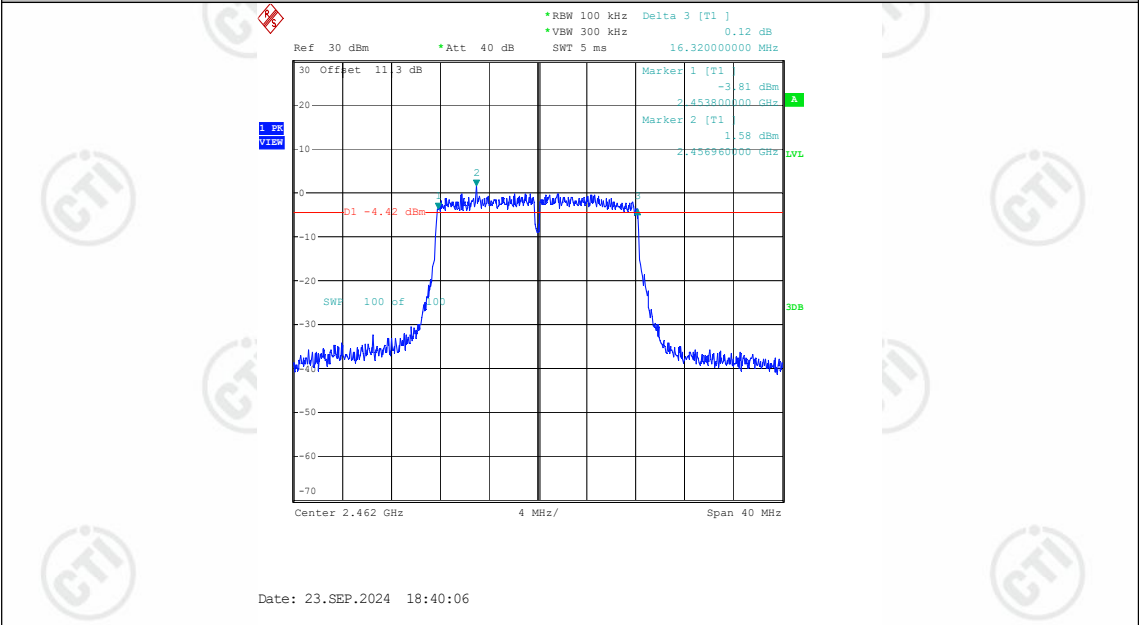
11B-Ant1-2462-PASS



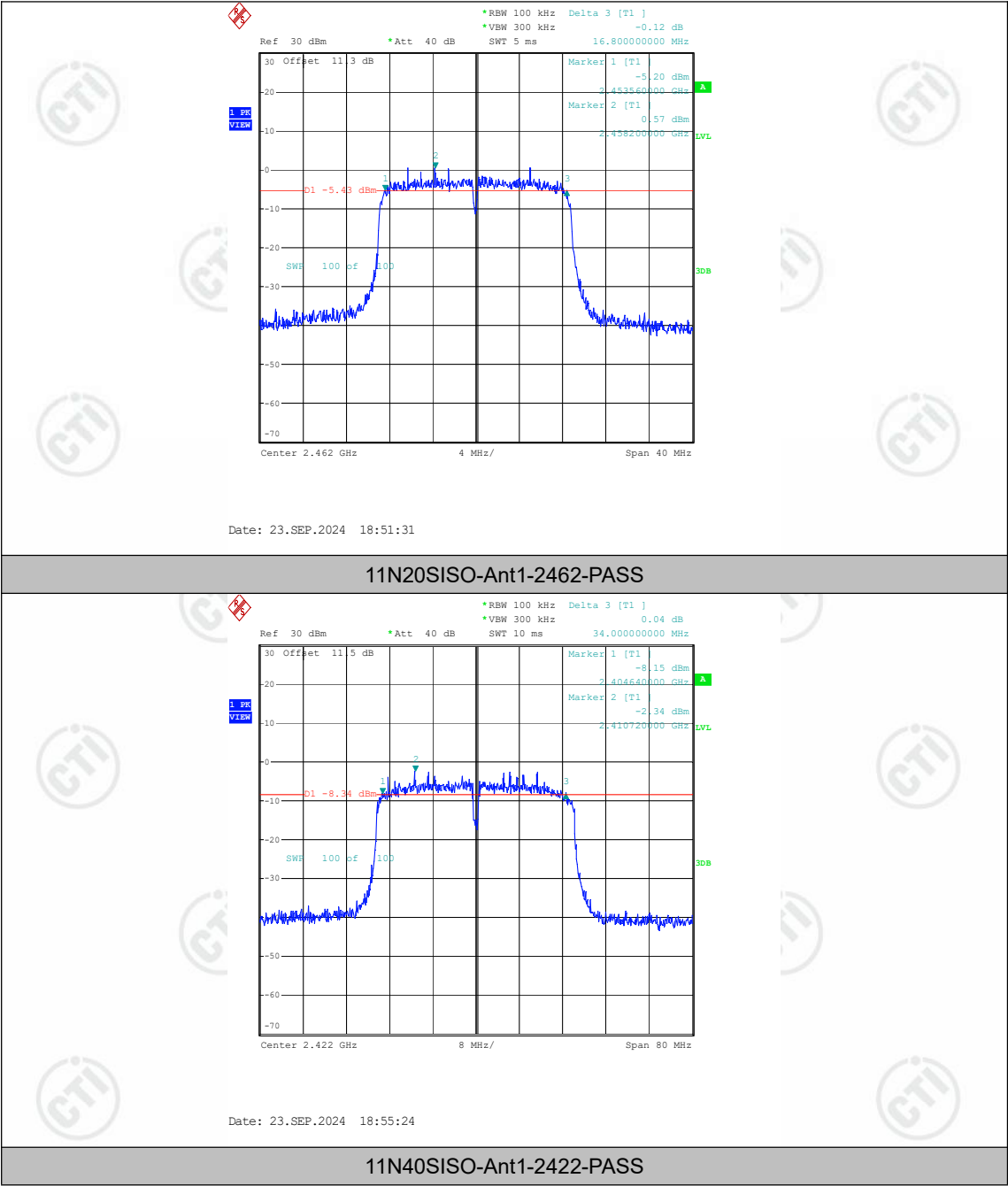
11G-Ant1-2412-PASS

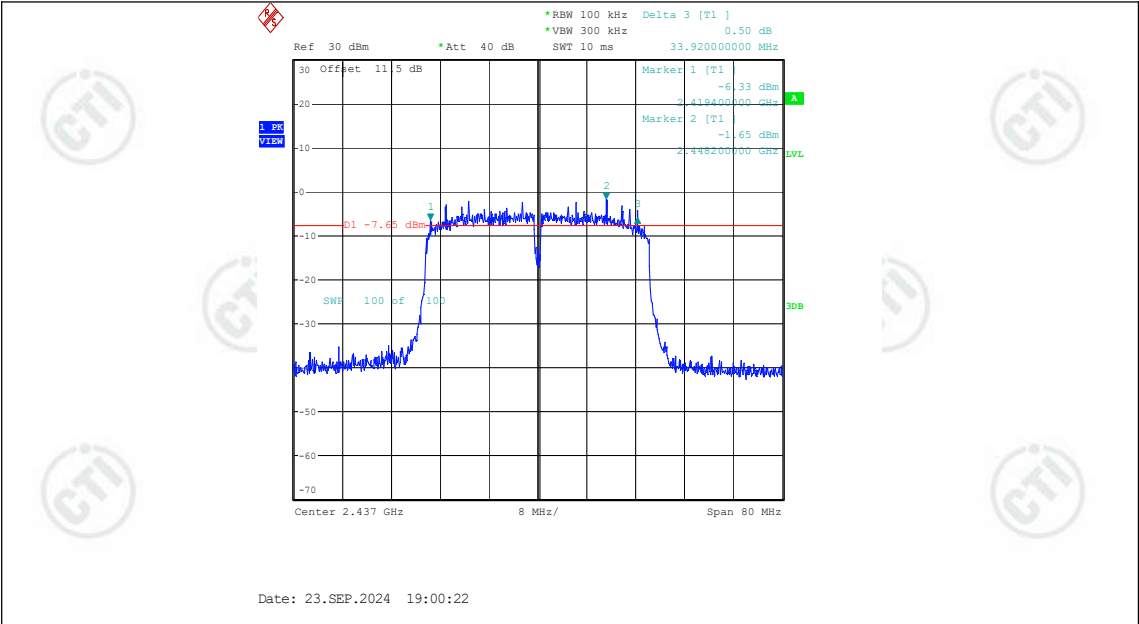


11G-Ant1-2437-PASS

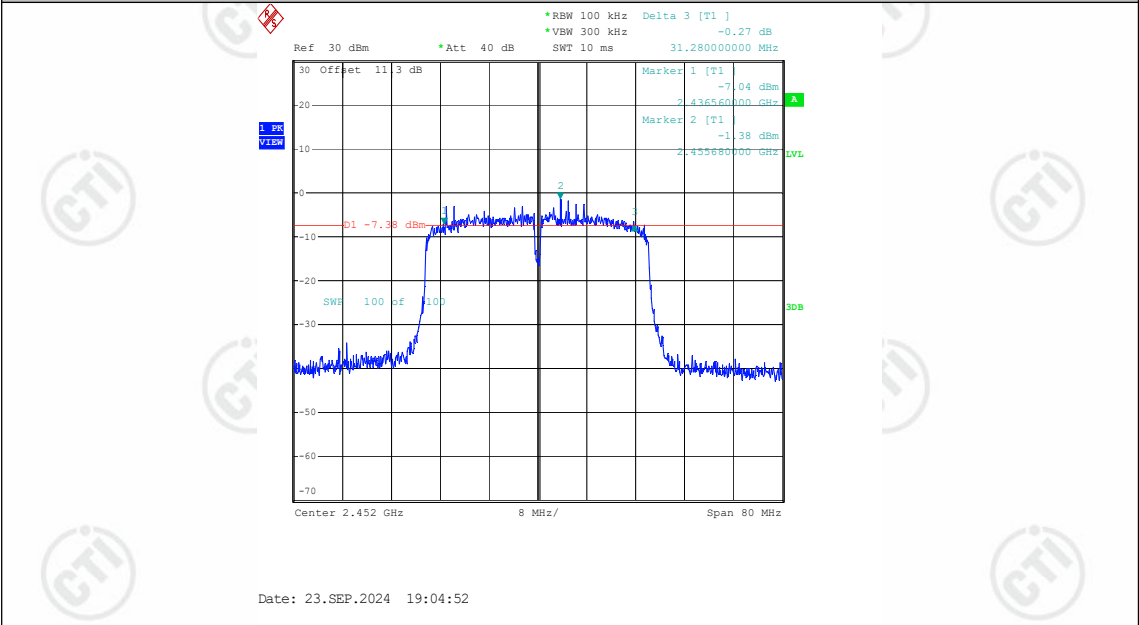


11G-Ant1-2462-PASS





11N40SISO-Ant1-2437-PASS

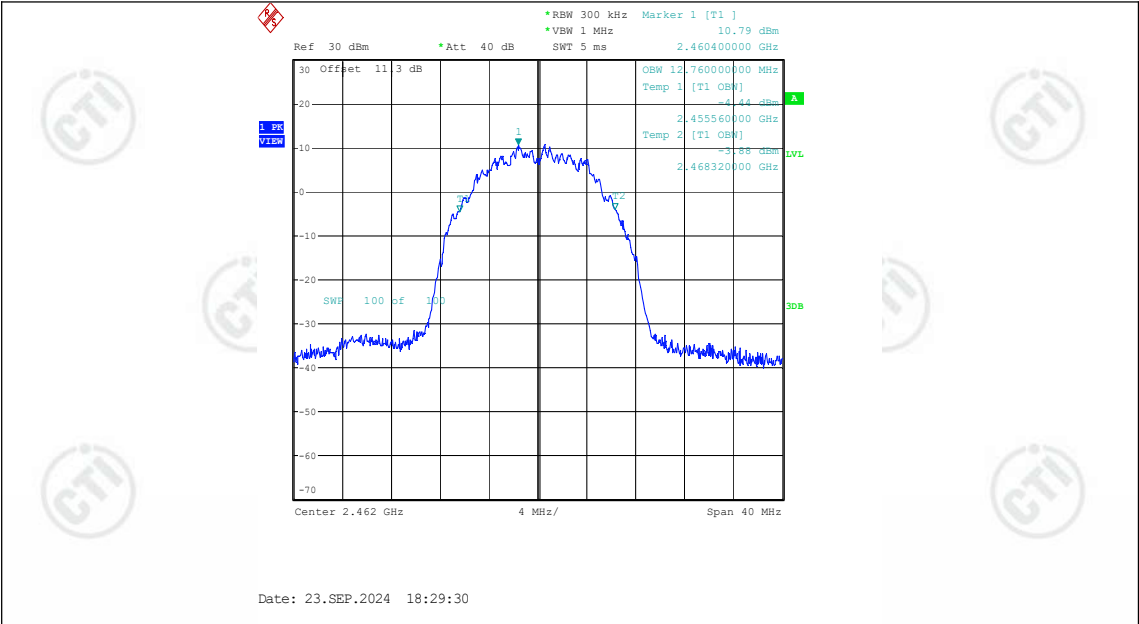


11N40SISO-Ant1-2452-PASS

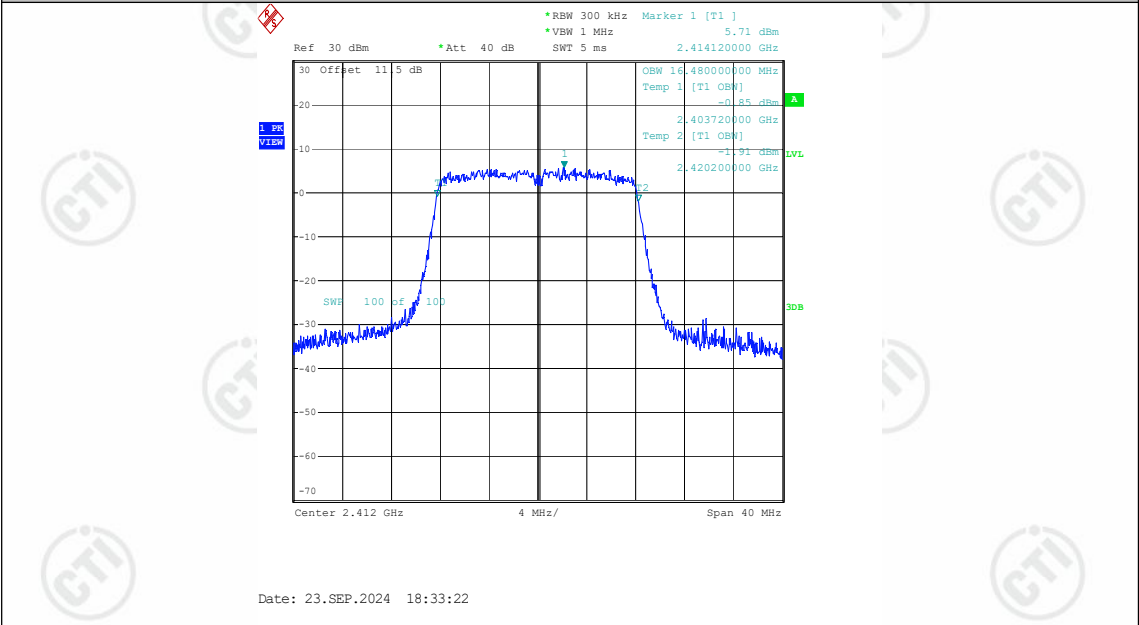
Appendix B: Occupied Channel Bandwidth

Test Result

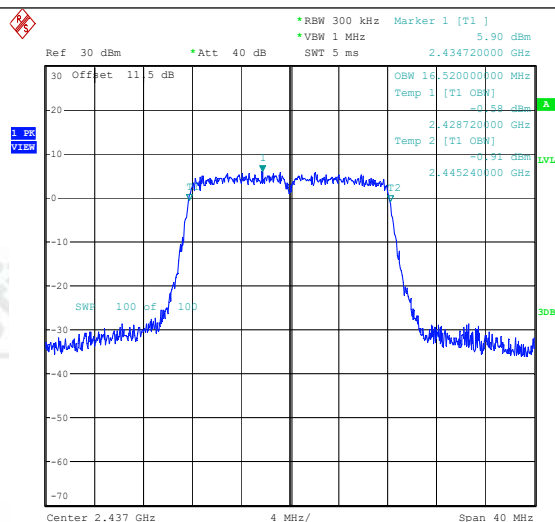
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.8	0.0000	0.0000	---	---
11B	Ant1	2437	12.8	0.0000	0.0000	---	---
11B	Ant1	2462	12.76	0.0000	0.0000	---	---
11G	Ant1	2412	16.48	0.0000	0.0000	---	---
11G	Ant1	2437	16.52	0.0000	0.0000	---	---
11G	Ant1	2462	16.48	0.0000	0.0000	---	---
11N20SISO	Ant1	2412	17.28	0.0000	0.0000	---	---
11N20SISO	Ant1	2437	17.28	0.0000	0.0000	---	---
11N20SISO	Ant1	2462	17.28	0.0000	0.0000	---	---
11N40SISO	Ant1	2422	35.92	0.0000	0.0000	---	---
11N40SISO	Ant1	2437	36	0.0000	0.0000	---	---
11N40SISO	Ant1	2452	36	0.0000	0.0000	---	---



11B-Ant1-2462

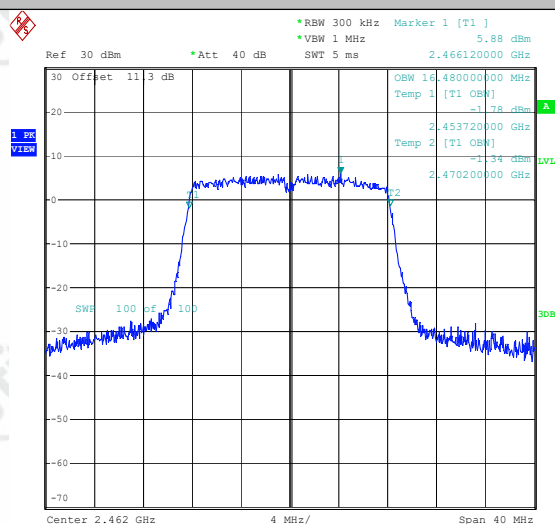


11G-Ant1-2412



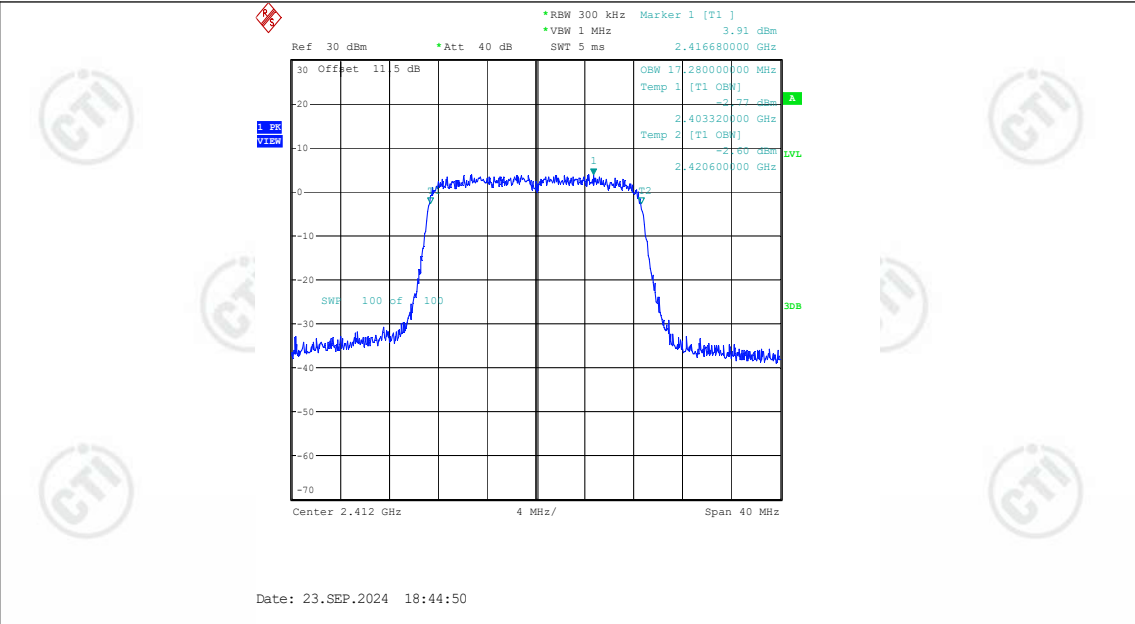
Date: 23.SEP.2024 18:37:06

11G-Ant1-2437

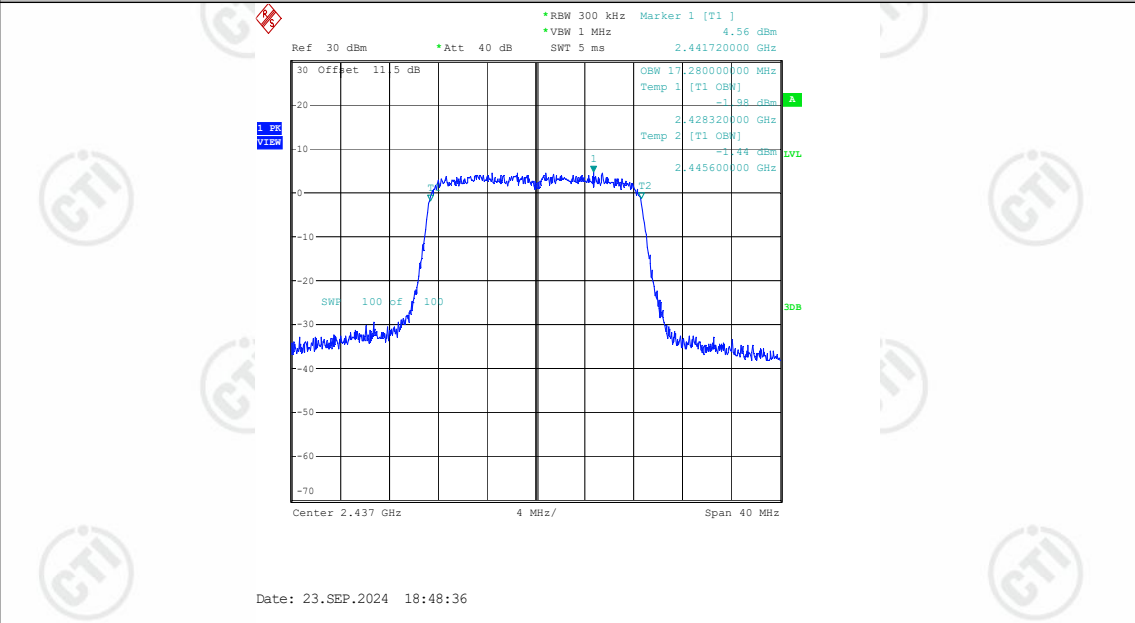


Date: 23.SEP.2024 18:40:49

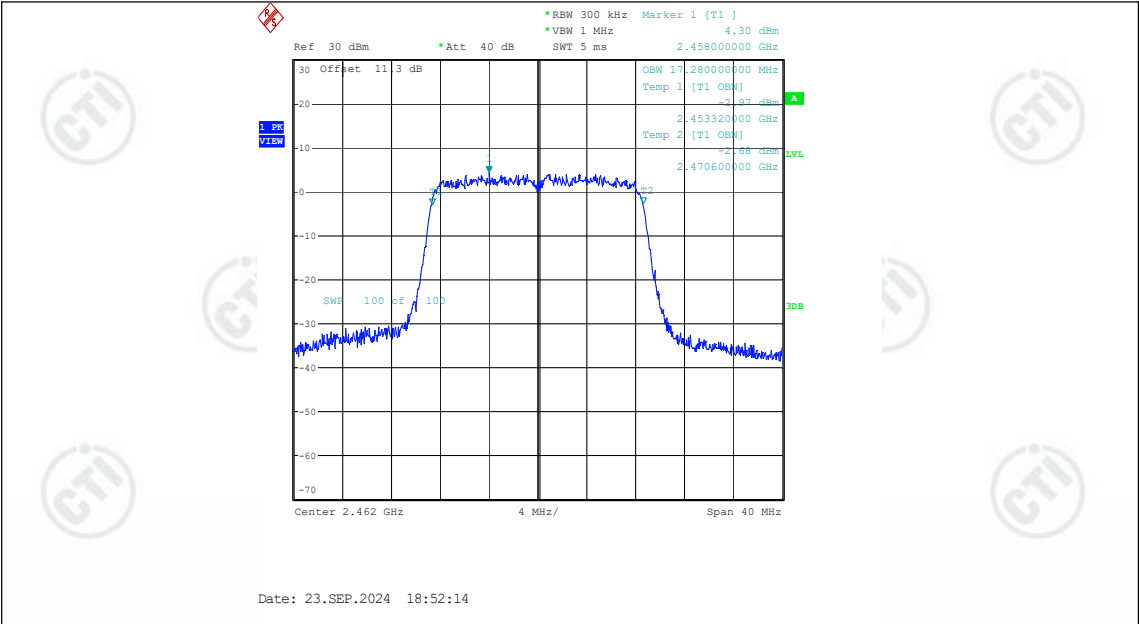
11G-Ant1-2462



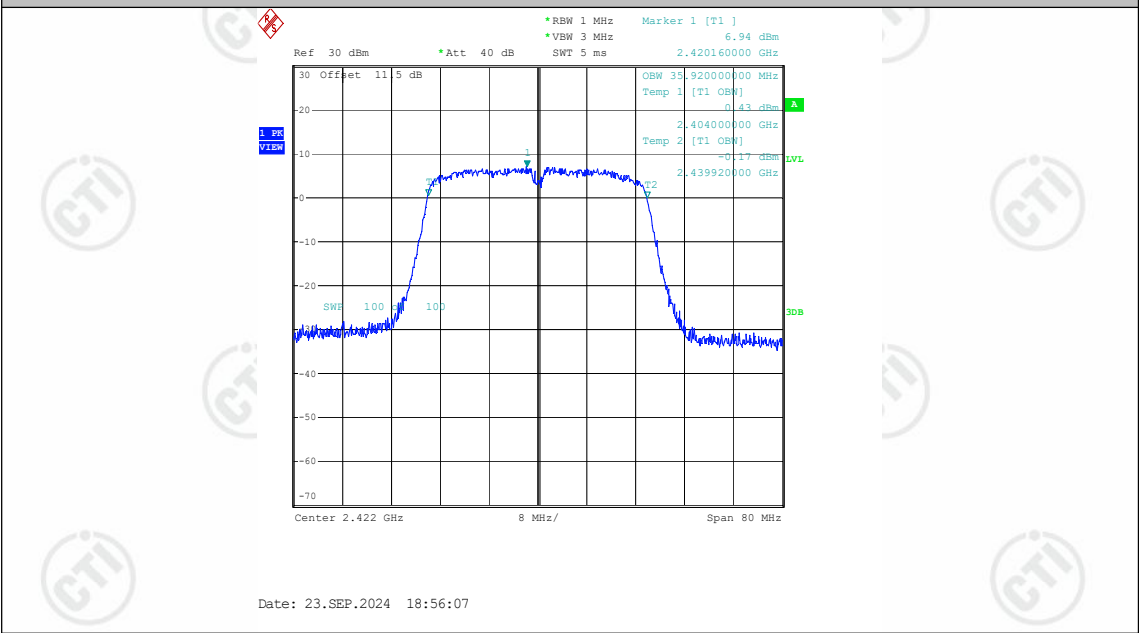
11N20SISO-Ant1-2412



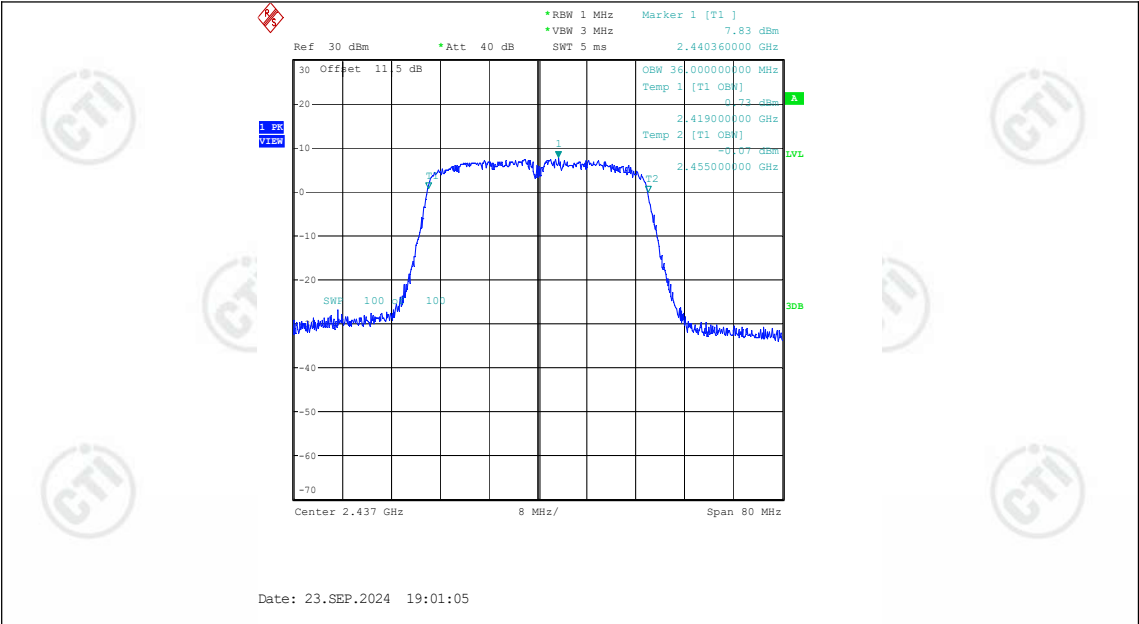
11N20SISO-Ant1-2437



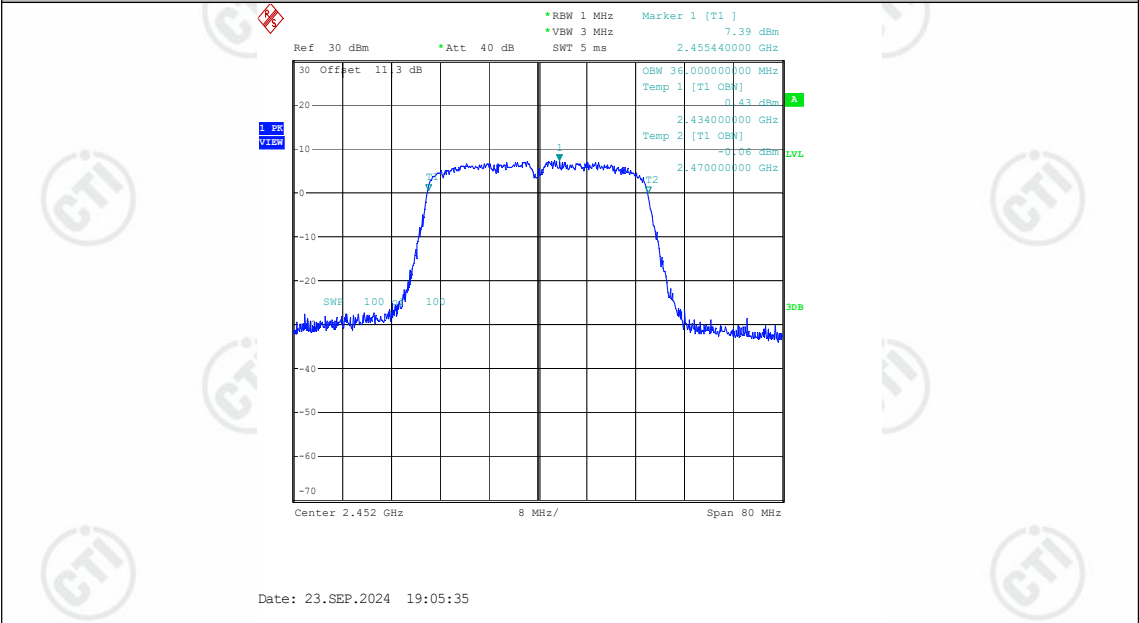
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	15.06	≤30.00	PASS
11B	Ant1	2437	---	15.23	≤30.00	PASS
11B	Ant1	2462	---	15.09	≤30.00	PASS
11G	Ant1	2412	---	13.67	≤30.00	PASS
11G	Ant1	2437	---	13.92	≤30.00	PASS
11G	Ant1	2462	---	13.75	≤30.00	PASS
11N20SISO	Ant1	2412	---	12.22	≤30.00	PASS
11N20SISO	Ant1	2437	---	12.77	≤30.00	PASS
11N20SISO	Ant1	2462	---	12.38	≤30.00	PASS
11N40SISO	Ant1	2422	---	12.11	≤30.00	PASS
11N40SISO	Ant1	2437	---	12.38	≤30.00	PASS
11N40SISO	Ant1	2452	---	12.15	≤30.00	PASS

Note:The Peak Power has been added Duty Cycle Factor.

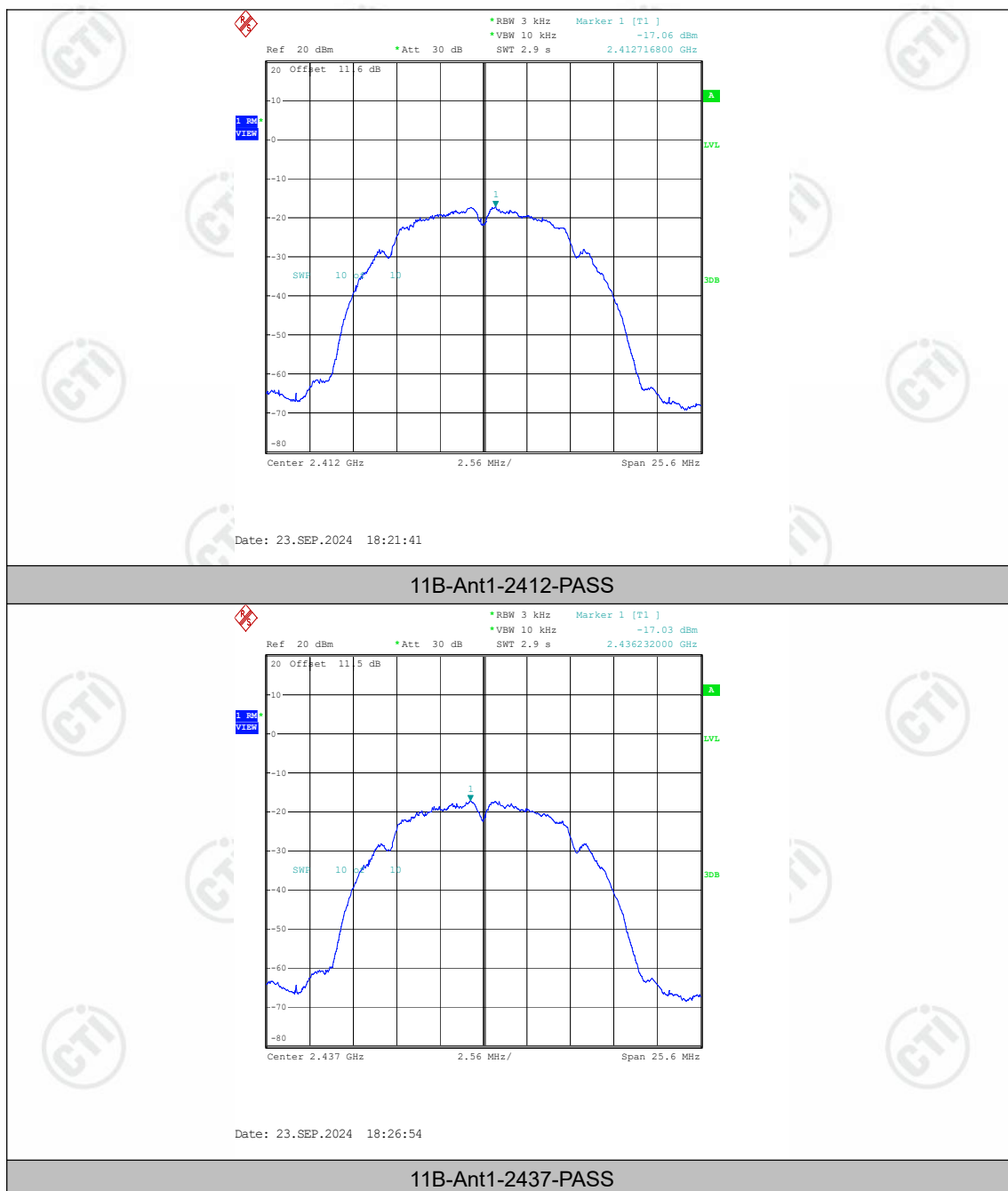
Appendix D: Maximum power spectral density

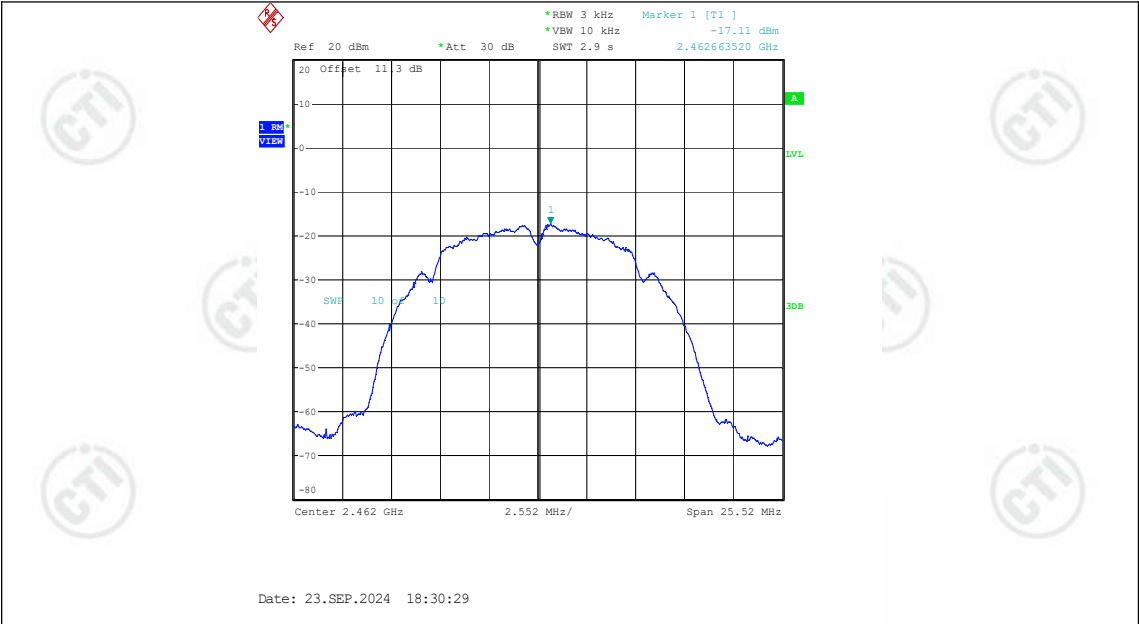
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.06	≤8.00	PASS
11B	Ant1	2437	-17.03	≤8.00	PASS
11B	Ant1	2462	-17.11	≤8.00	PASS
11G	Ant1	2412	-20.83	≤8.00	PASS
11G	Ant1	2437	-20.54	≤8.00	PASS
11G	Ant1	2462	-20.87	≤8.00	PASS
11N20SISO	Ant1	2412	-22.29	≤8.00	PASS
11N20SISO	Ant1	2437	-21.86	≤8.00	PASS
11N20SISO	Ant1	2462	-22.10	≤8.00	PASS
11N40SISO	Ant1	2422	-25.82	≤8.00	PASS
11N40SISO	Ant1	2437	-25.28	≤8.00	PASS
11N40SISO	Ant1	2452	-25.57	≤8.00	PASS

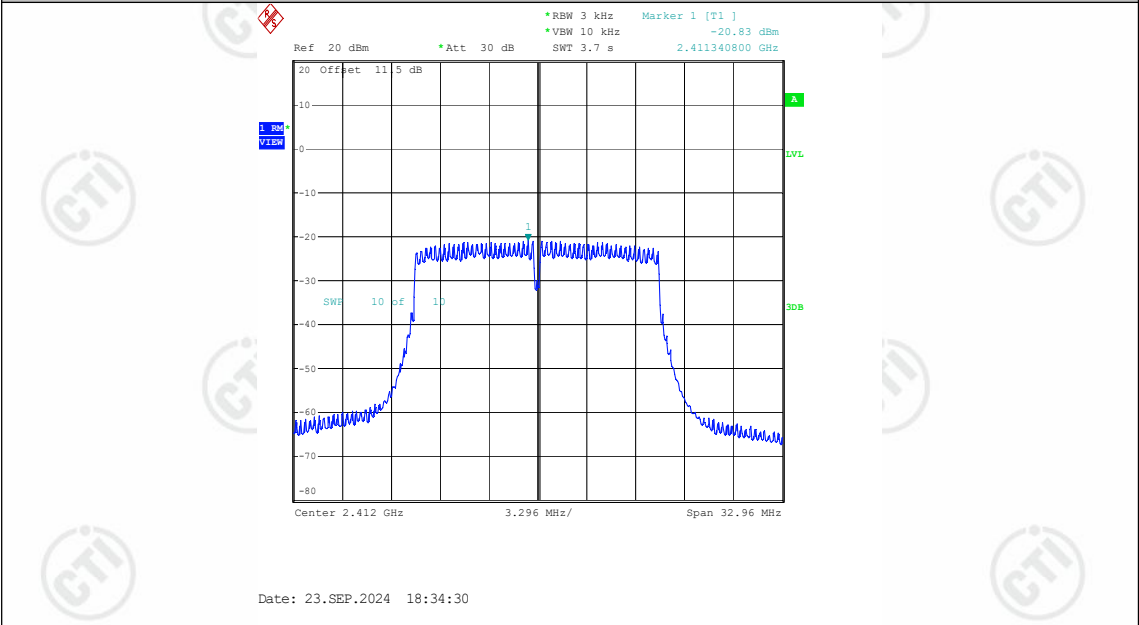
Note:The Peak Power has been added Duty Cycle Factor.

Test Graphs

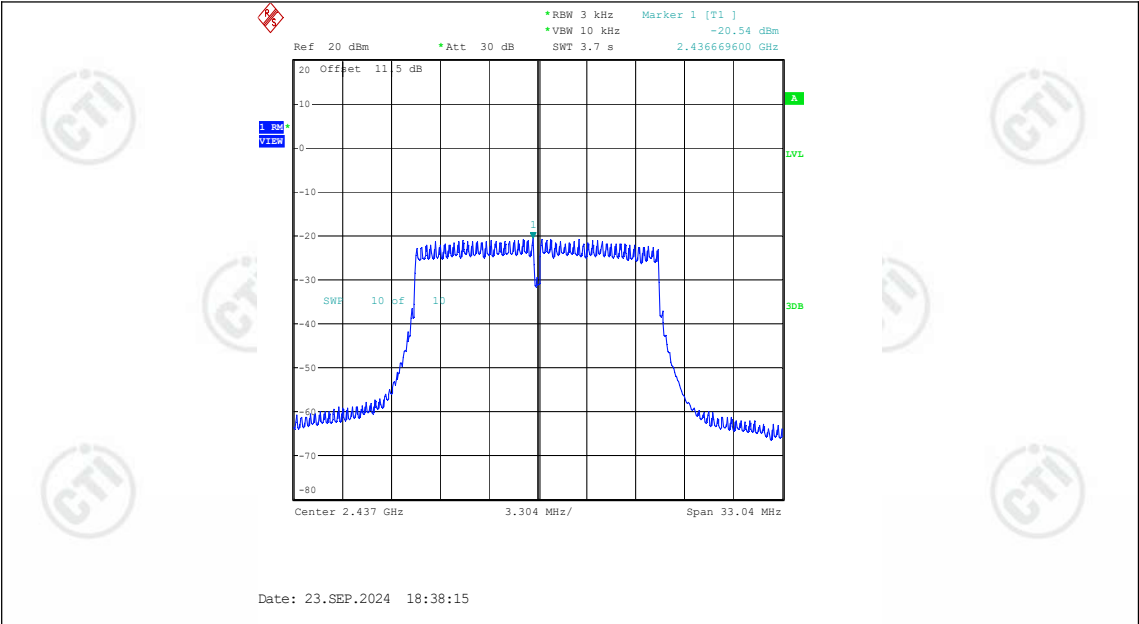




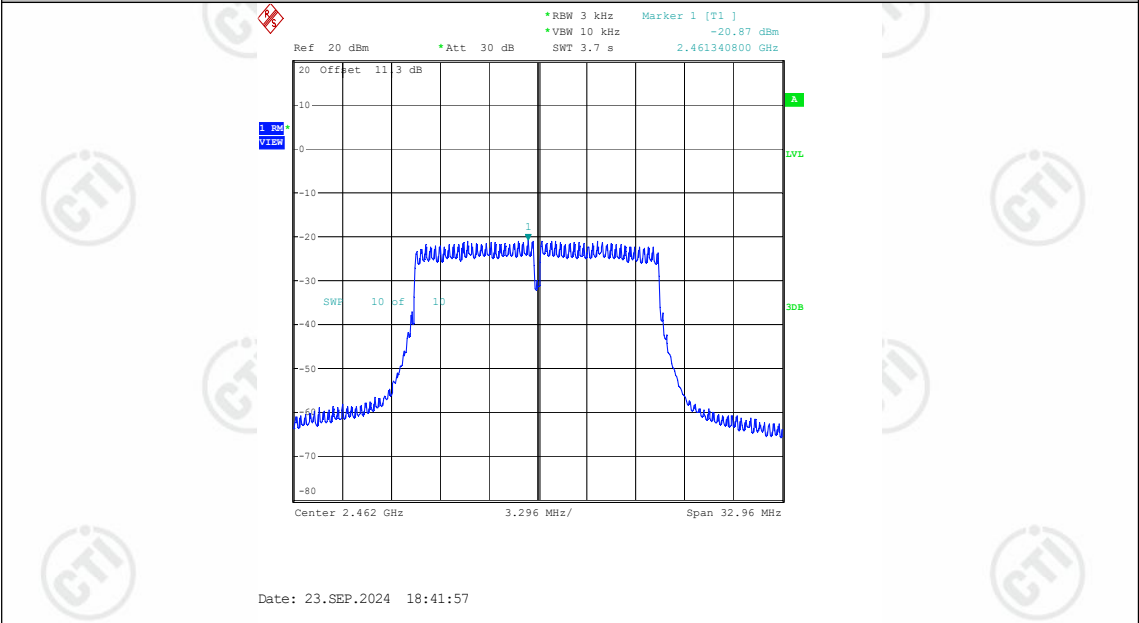
11B-Ant1-2462-PASS



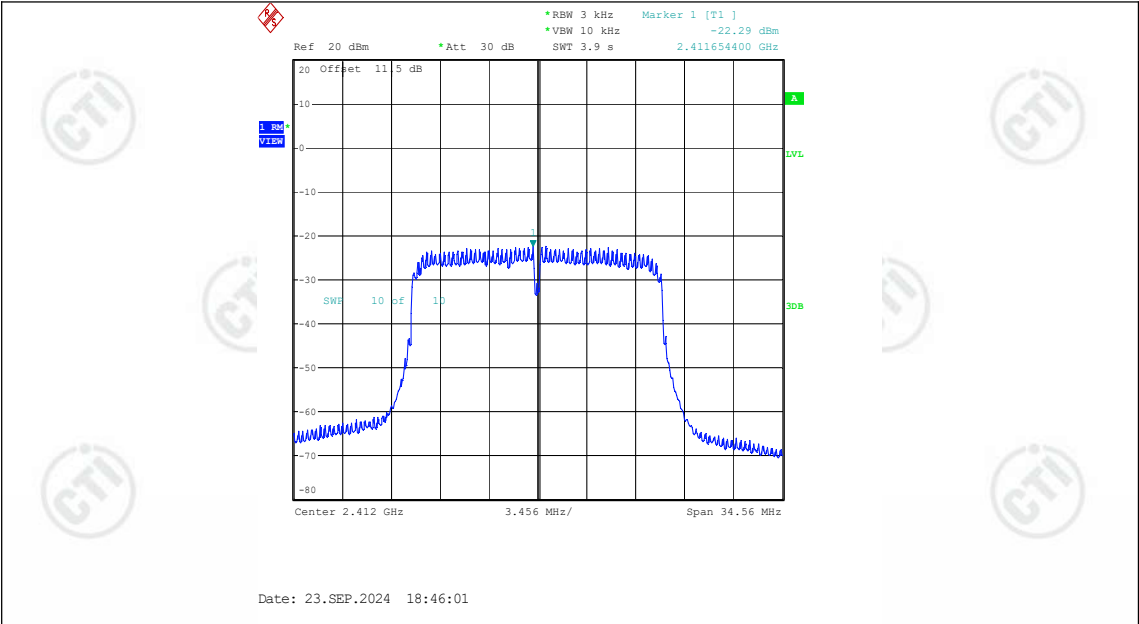
11G-Ant1-2412-PASS



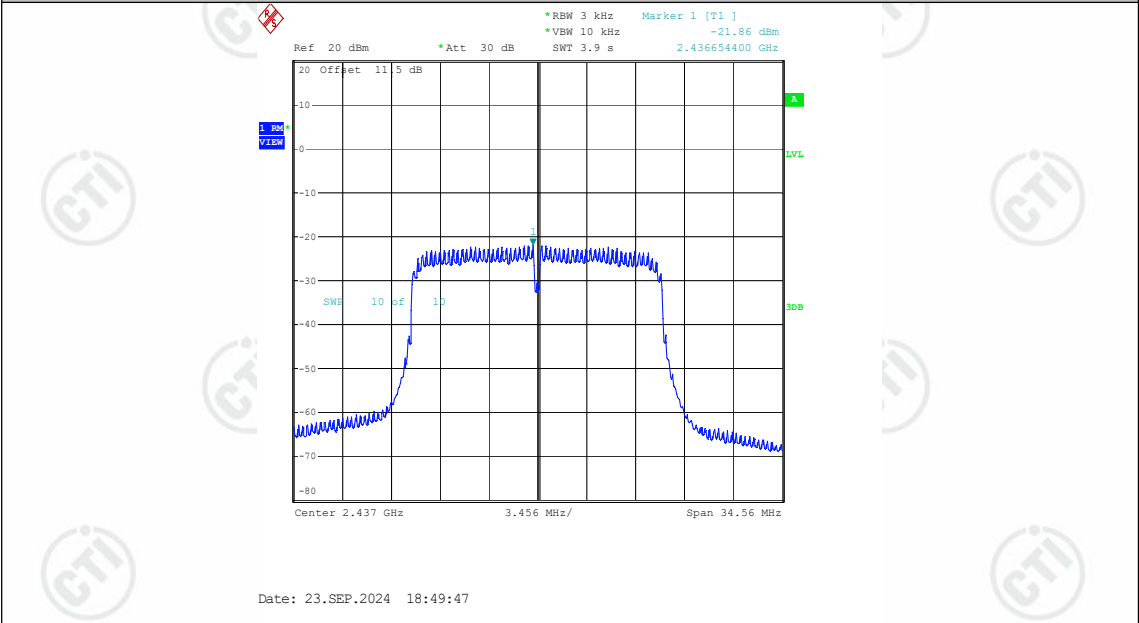
11G-Ant1-2437-PASS



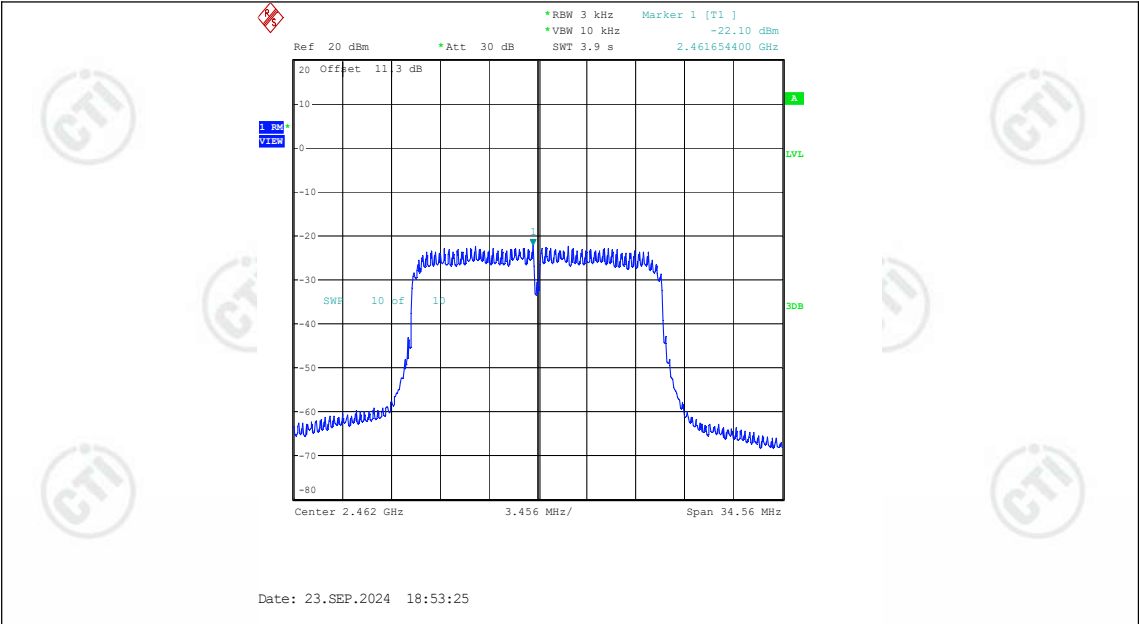
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



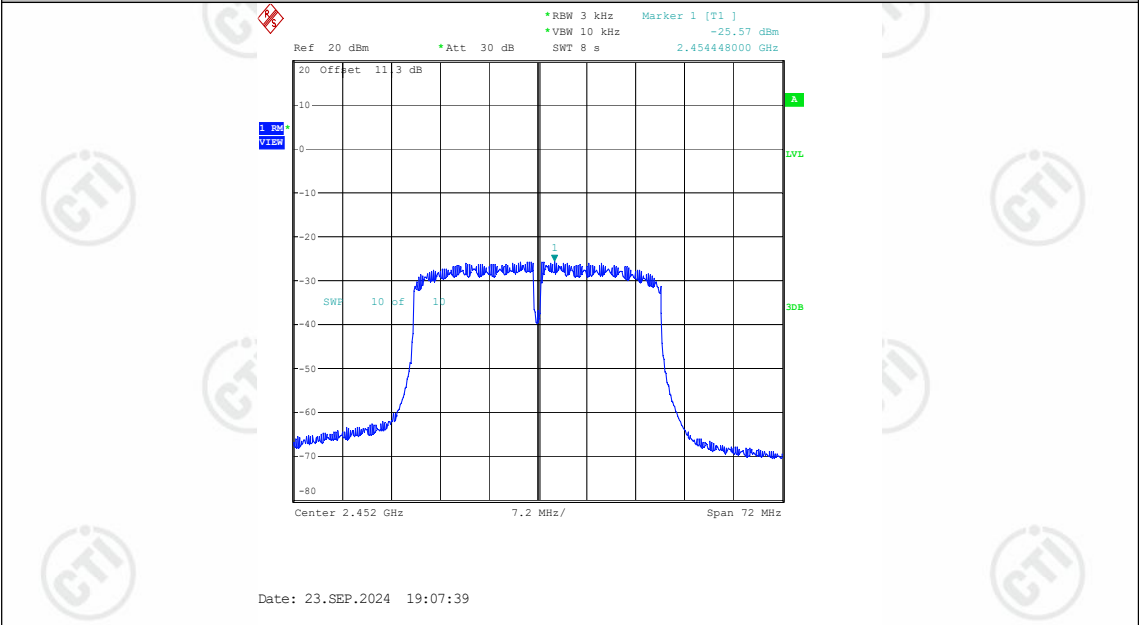
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



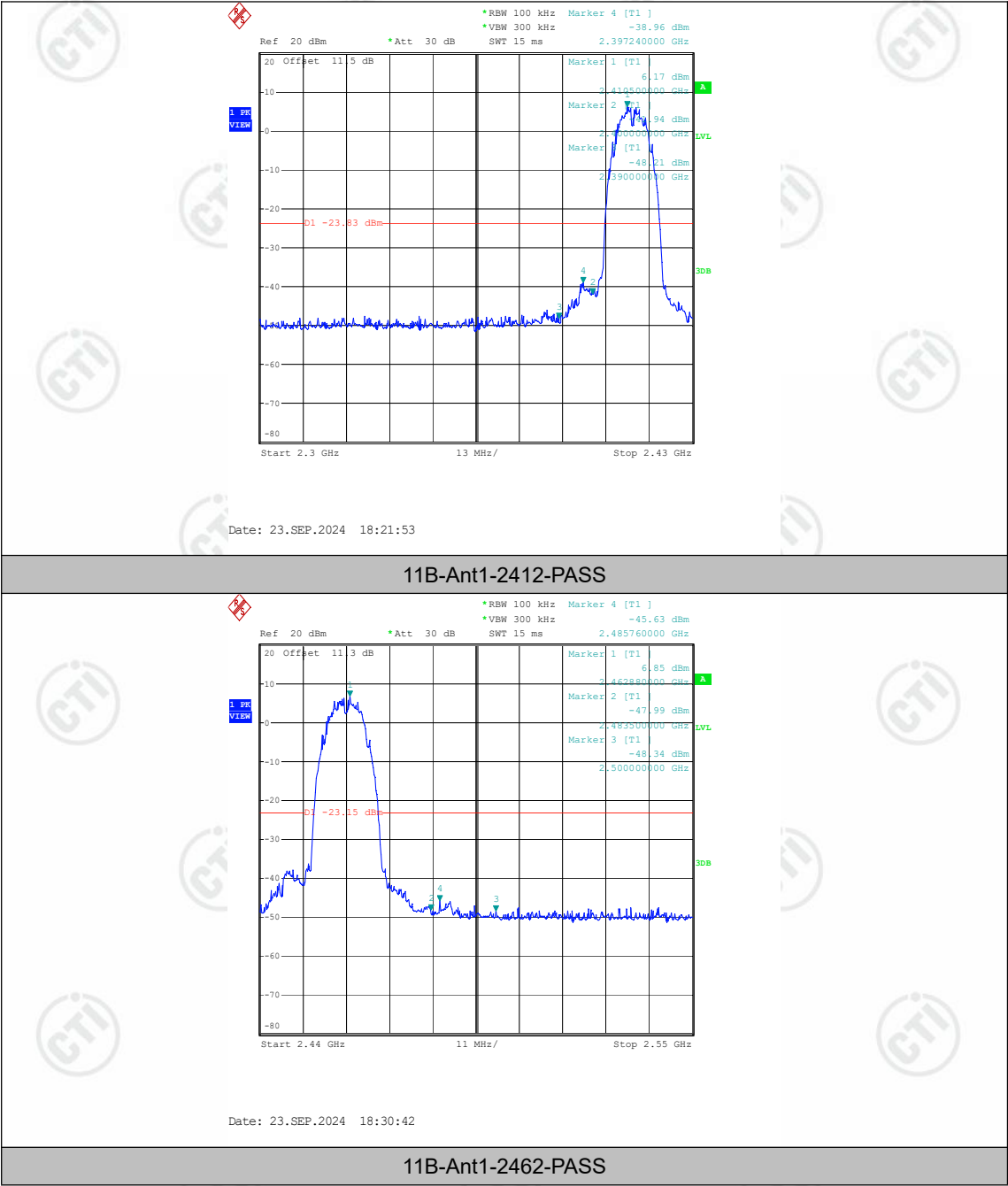
11N40SISO-Ant1-2452-PASS

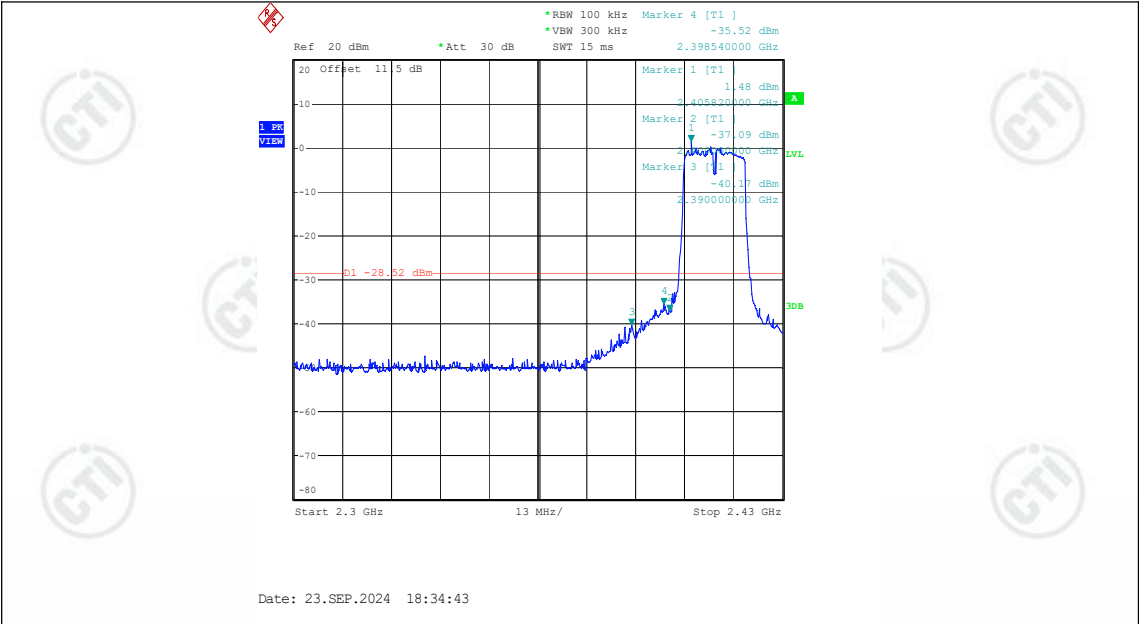
Appendix E: Band edge measurements

Test Result

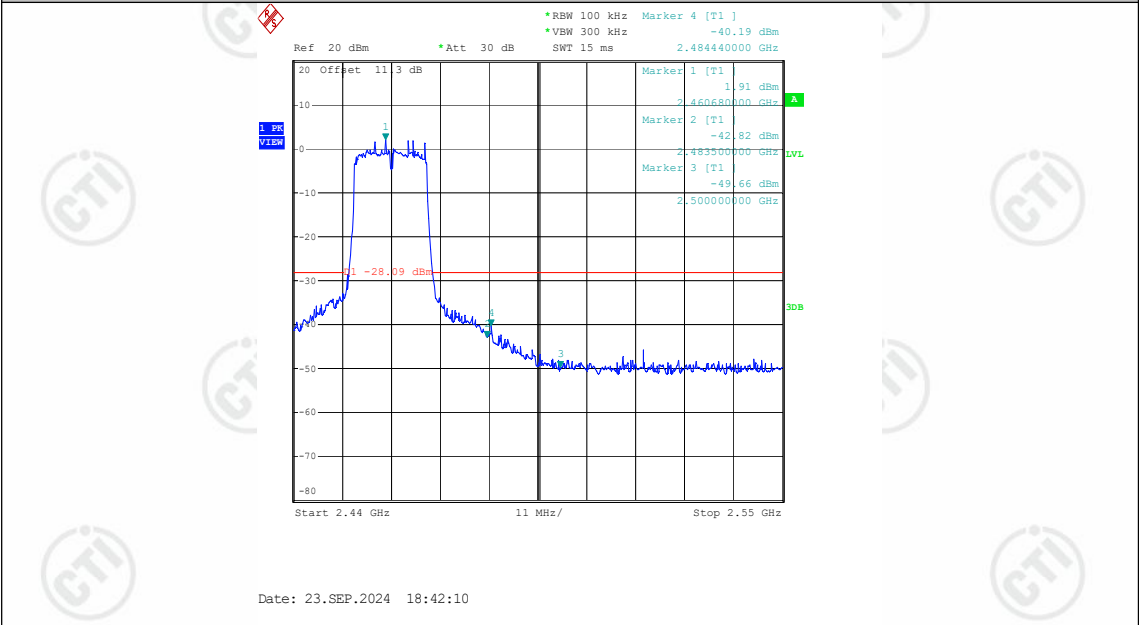
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	6.17	-38.96	≤-23.83	PASS
11B	Ant1	High	2462	6.85	-45.63	≤-23.15	PASS
11G	Ant1	Low	2412	1.48	-35.52	≤-28.52	PASS
11G	Ant1	High	2462	1.91	-40.19	≤-28.09	PASS
11N20SISO	Ant1	Low	2412	0.63	-37.26	≤-29.37	PASS
11N20SISO	Ant1	High	2462	1.70	-45.63	≤-28.3	PASS
11N40SISO	Ant1	Low	2422	-2.20	-38.59	≤-32.2	PASS
11N40SISO	Ant1	High	2452	-1.78	-41.46	≤-31.78	PASS

Test Graphs

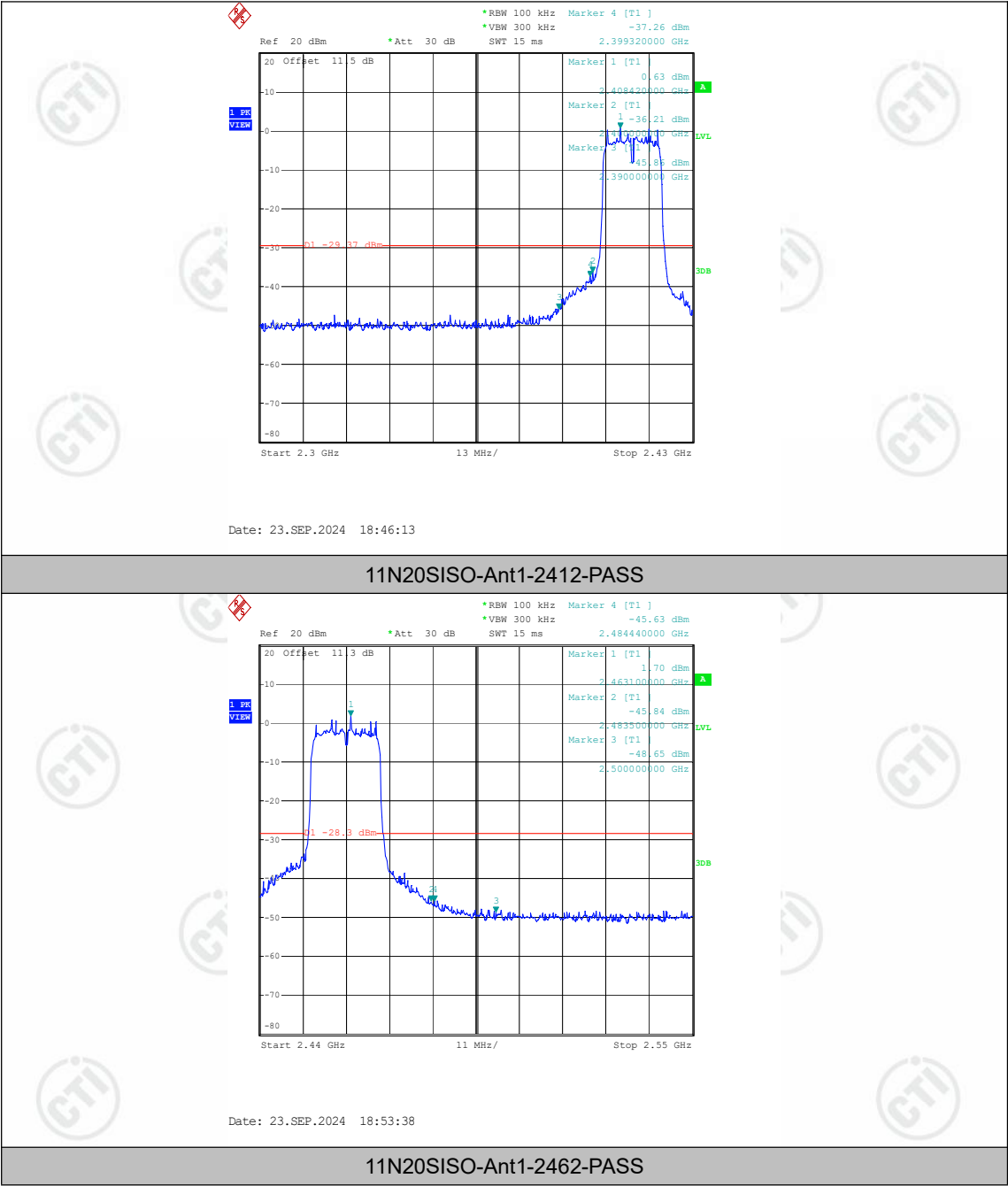


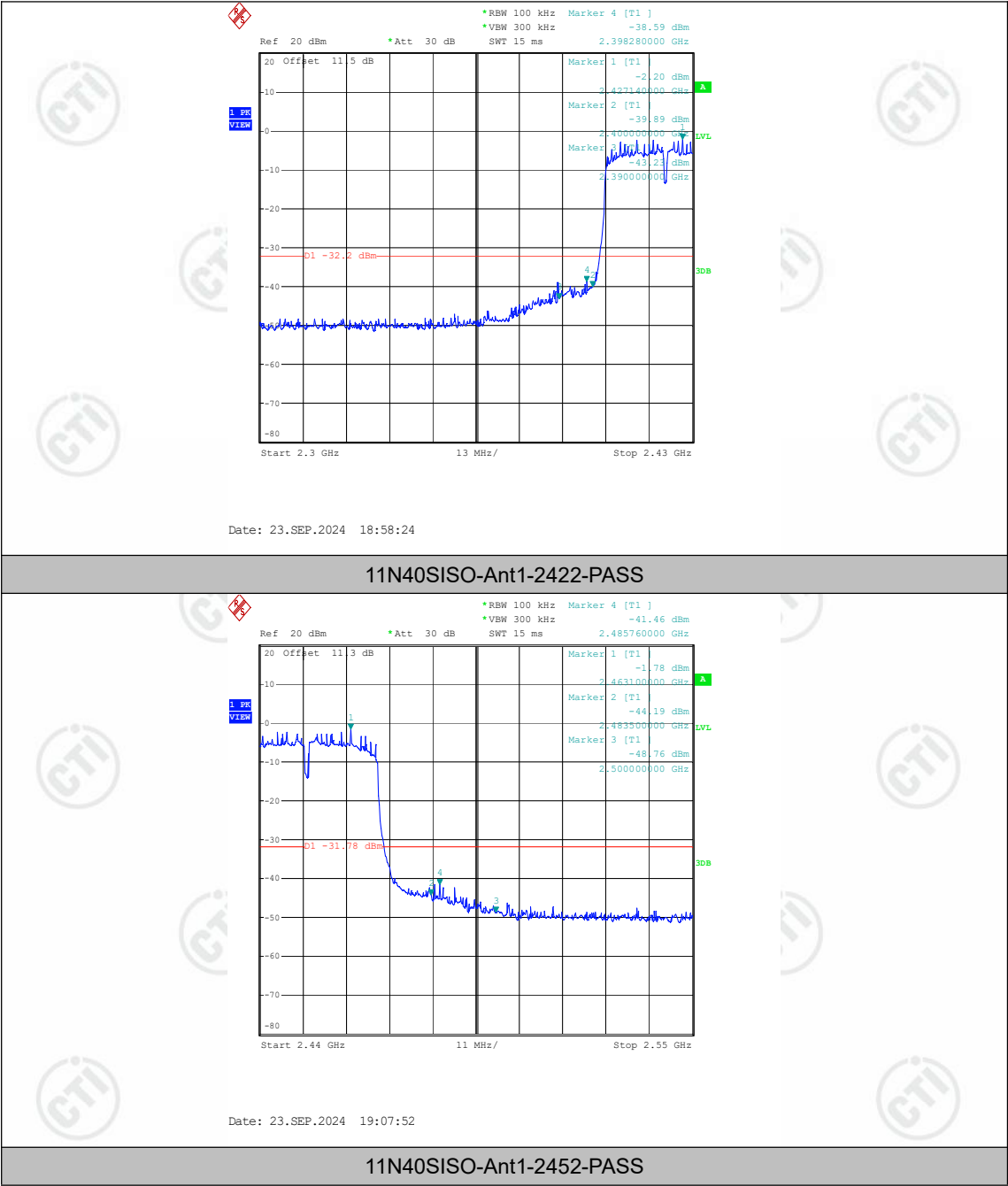


11G-Ant1-2412-PASS



11G-Ant1-2462-PASS

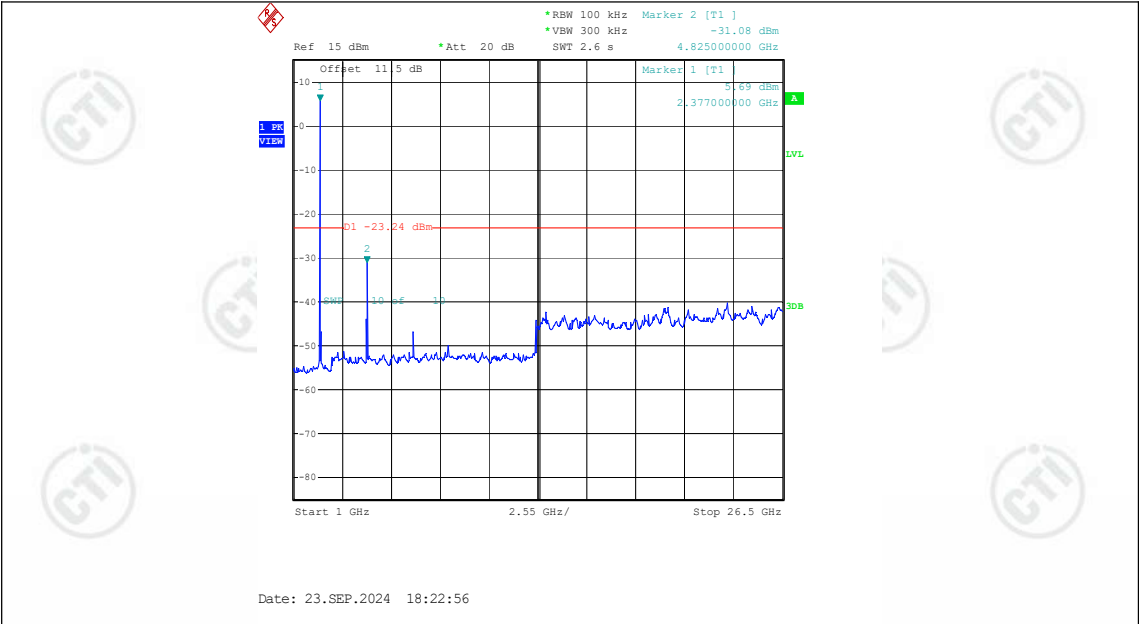




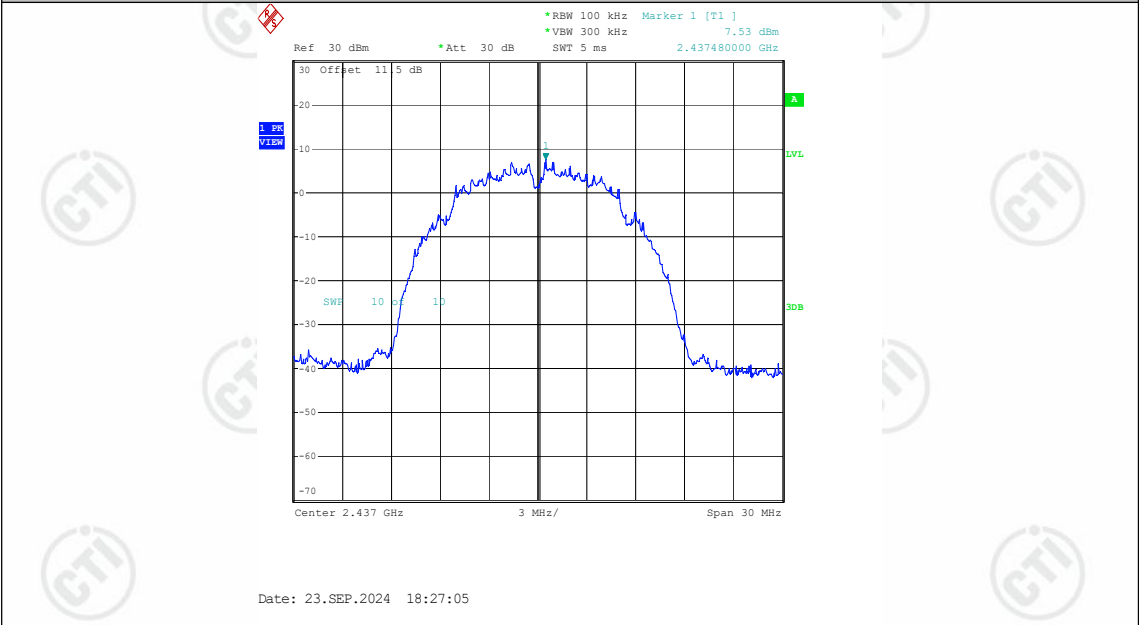
Appendix F: Conducted Spurious Emission

Test Result

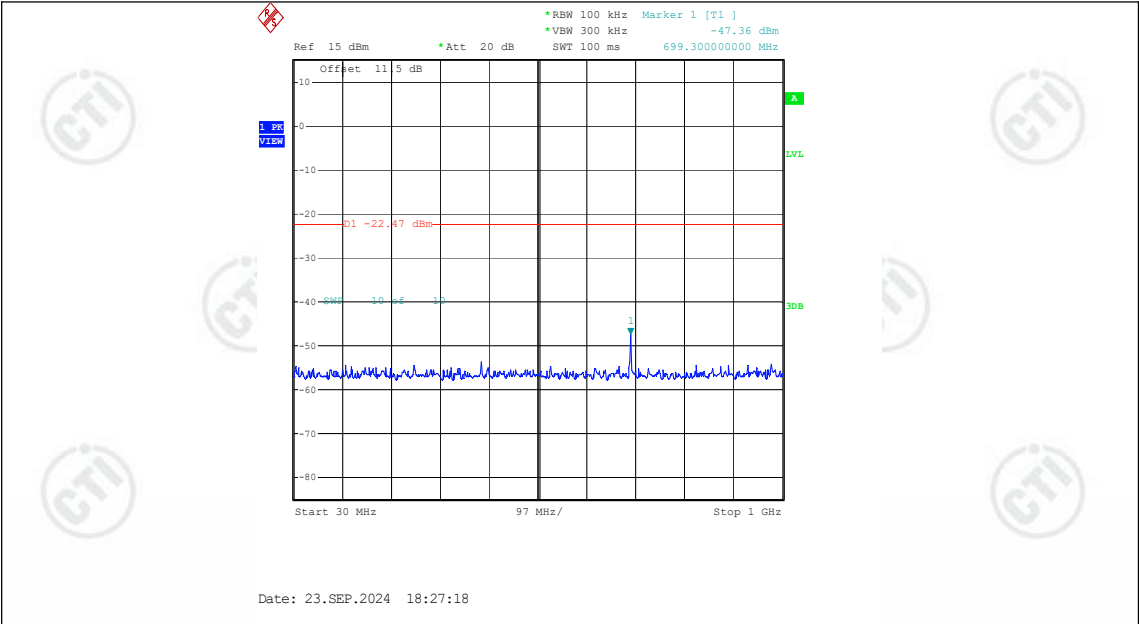
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.76	6.76	---	PASS
11B	Ant1	2412	30~1000	6.76	-46.84	≤-23.24	PASS
11B	Ant1	2412	1000~26500	6.76	-31.08	≤-23.24	PASS
11B	Ant1	2437	0~Reference	7.53	7.53	---	PASS
11B	Ant1	2437	30~1000	7.53	-47.36	≤-22.47	PASS
11B	Ant1	2437	1000~26500	7.53	-28.06	≤-22.47	PASS
11B	Ant1	2462	0~Reference	6.34	6.34	---	PASS
11B	Ant1	2462	30~1000	6.34	-47.19	≤-23.66	PASS
11B	Ant1	2462	1000~26500	6.34	-27.13	≤-23.66	PASS
11G	Ant1	2412	0~Reference	2.14	2.14	---	PASS
11G	Ant1	2412	30~1000	2.14	-51.11	≤-27.86	PASS
11G	Ant1	2412	1000~26500	2.14	-38.88	≤-27.86	PASS
11G	Ant1	2437	0~Reference	2.01	2.01	---	PASS
11G	Ant1	2437	30~1000	2.01	-51.99	≤-27.99	PASS
11G	Ant1	2437	1000~26500	2.01	-36.77	≤-27.99	PASS
11G	Ant1	2462	0~Reference	1.97	1.97	---	PASS
11G	Ant1	2462	30~1000	1.97	-51.44	≤-28.03	PASS
11G	Ant1	2462	1000~26500	1.97	-35.84	≤-28.03	PASS
11N20SISO	Ant1	2412	0~Reference	1.55	1.55	---	PASS
11N20SISO	Ant1	2412	30~1000	1.55	-53.55	≤-28.45	PASS
11N20SISO	Ant1	2412	1000~26500	1.55	-40.62	≤-28.45	PASS
11N20SISO	Ant1	2437	0~Reference	1.59	1.59	---	PASS
11N20SISO	Ant1	2437	30~1000	1.59	-53.77	≤-28.41	PASS
11N20SISO	Ant1	2437	1000~26500	1.59	-39.41	≤-28.41	PASS
11N20SISO	Ant1	2462	0~Reference	0.85	0.85	---	PASS
11N20SISO	Ant1	2462	30~1000	0.85	-53.58	≤-29.15	PASS
11N20SISO	Ant1	2462	1000~26500	0.85	-37.23	≤-29.15	PASS
11N40SISO	Ant1	2422	0~Reference	-2.14	-2.14	---	PASS
11N40SISO	Ant1	2422	30~1000	-2.14	-54.08	≤-32.14	PASS
11N40SISO	Ant1	2422	1000~26500	-2.14	-38.65	≤-32.14	PASS
11N40SISO	Ant1	2437	0~Reference	-1.33	-1.33	---	PASS
11N40SISO	Ant1	2437	30~1000	-1.33	-53.72	≤-31.33	PASS
11N40SISO	Ant1	2437	1000~26500	-1.33	-41.14	≤-31.33	PASS
11N40SISO	Ant1	2452	0~Reference	-1.64	-1.64	---	PASS
11N40SISO	Ant1	2452	30~1000	-1.64	-51.48	≤-31.64	PASS
11N40SISO	Ant1	2452	1000~26500	-1.64	-39.76	≤-31.64	PASS



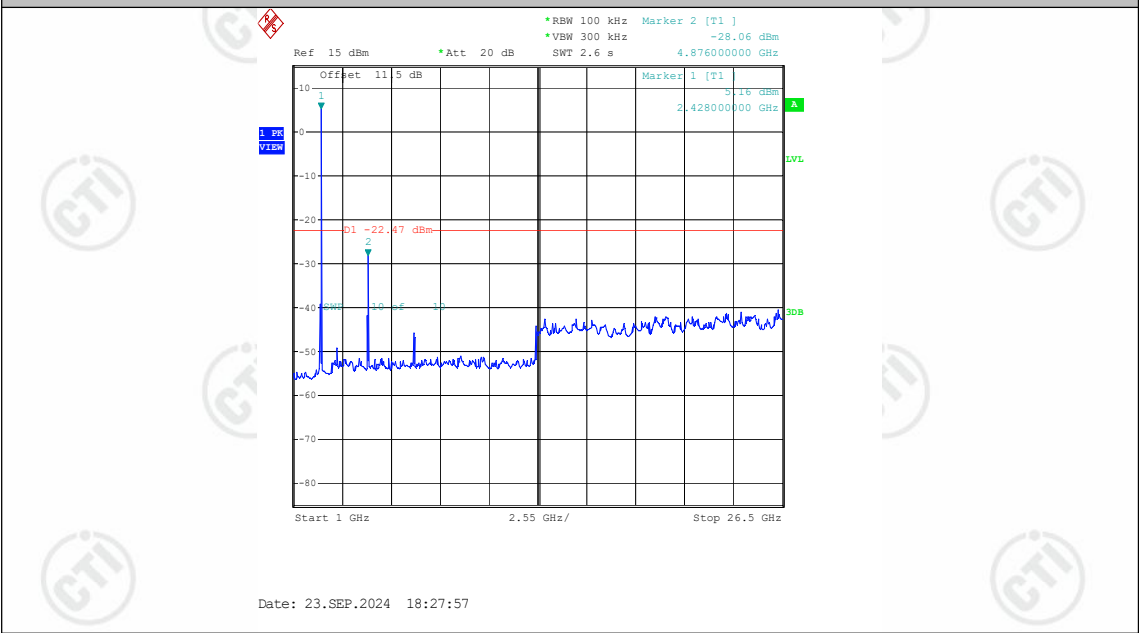
11B-Ant1-2412-1000~26500-PASS



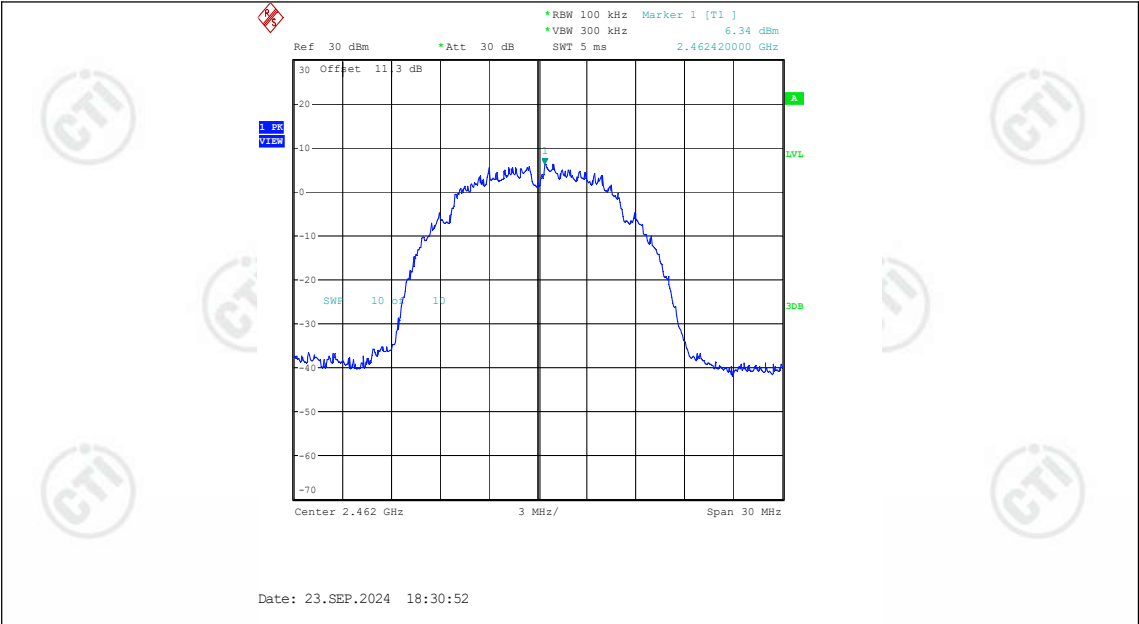
11B-Ant1-2437-0~Reference-PASS



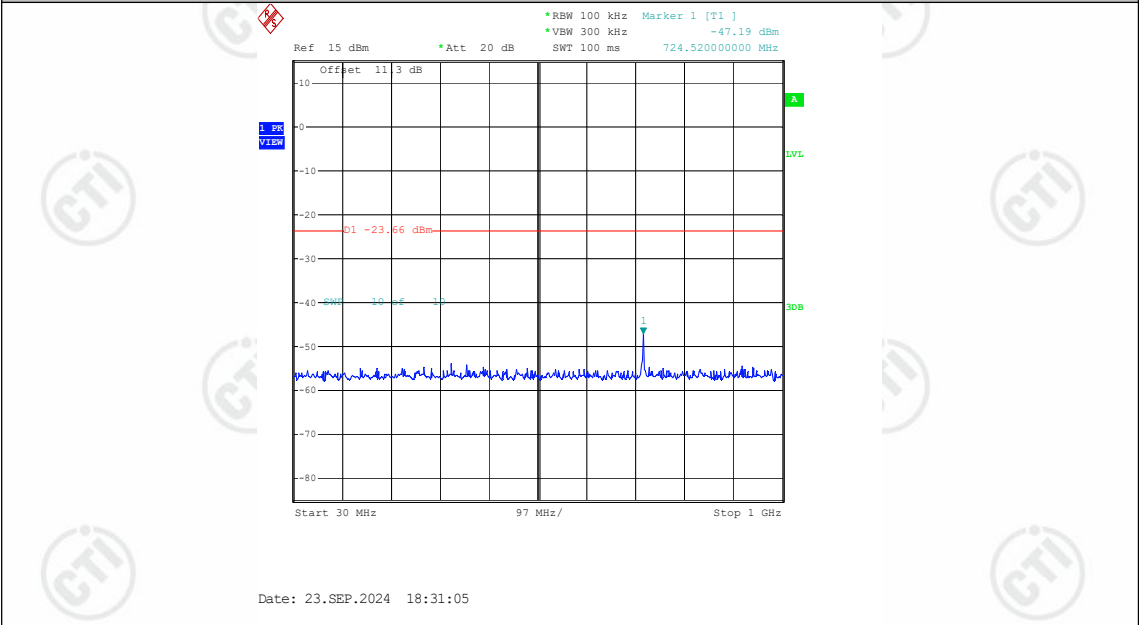
11B-Ant1-2437-30~1000-PASS



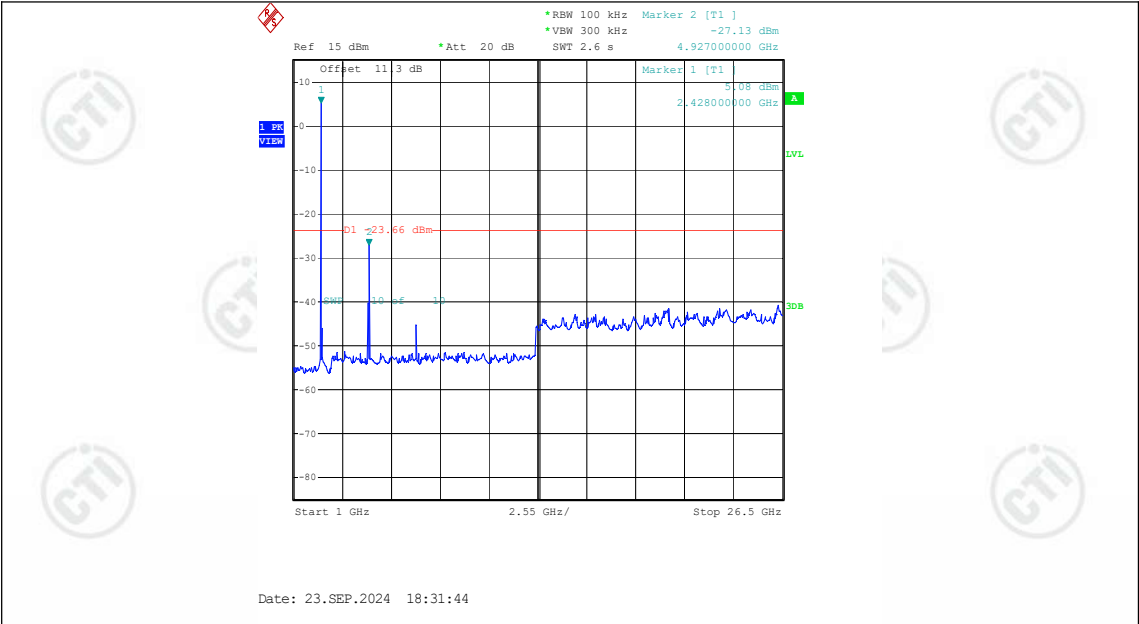
11B-Ant1-2437-1000~26500-PASS



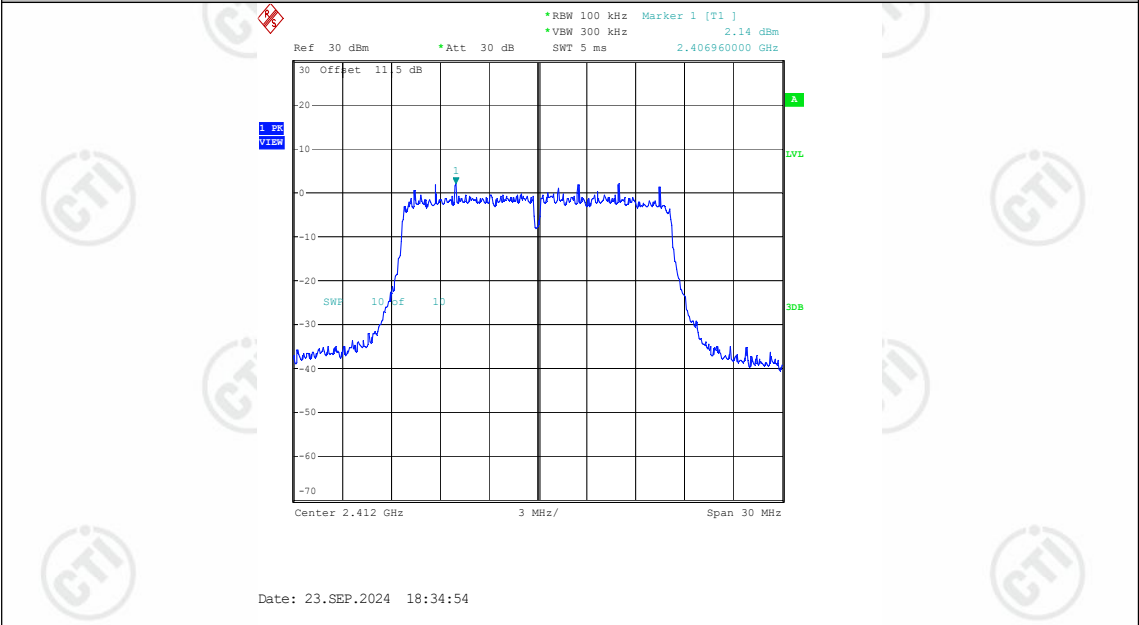
11B-Ant1-2462-0~Reference-PASS



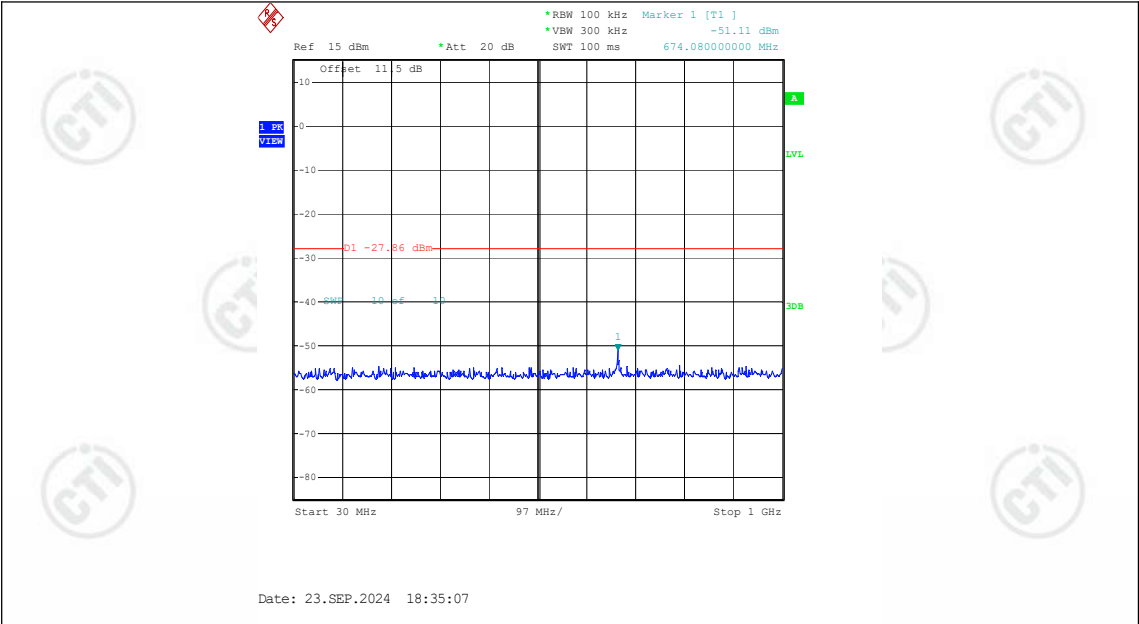
11B-Ant1-2462-30~1000-PASS



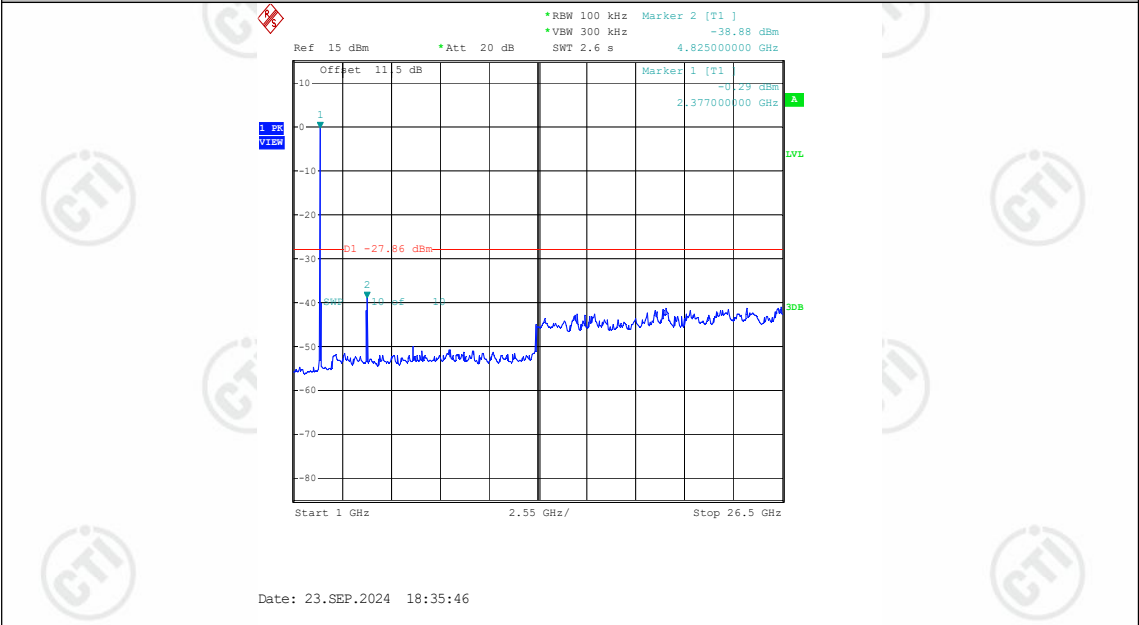
11B-Ant1-2462-1000~26500-PASS



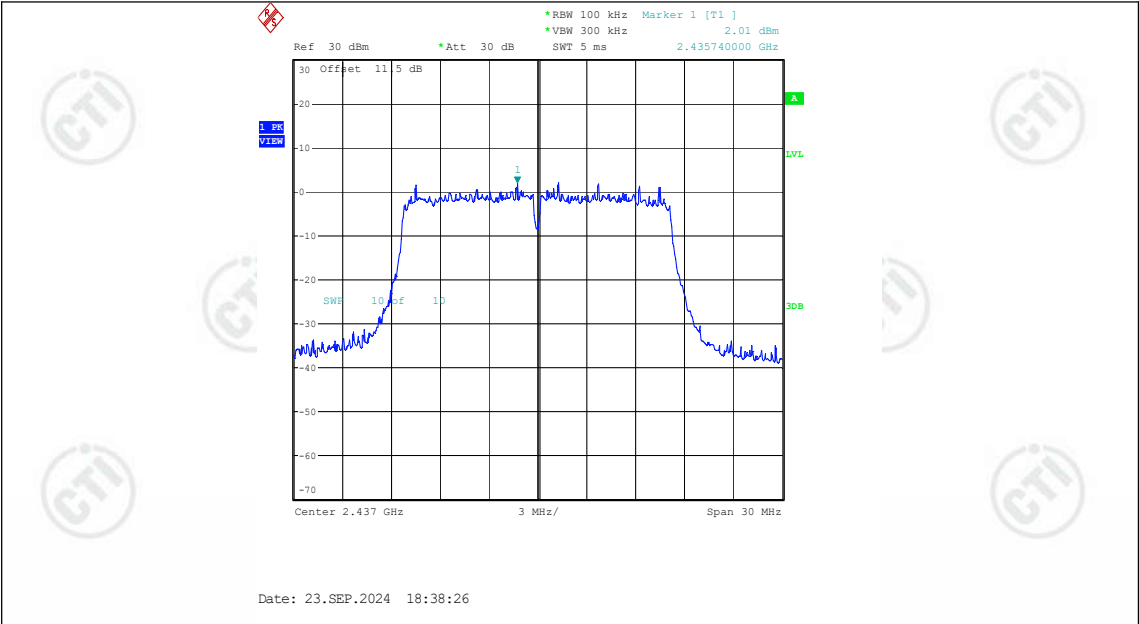
11G-Ant1-2412-0~Reference-PASS



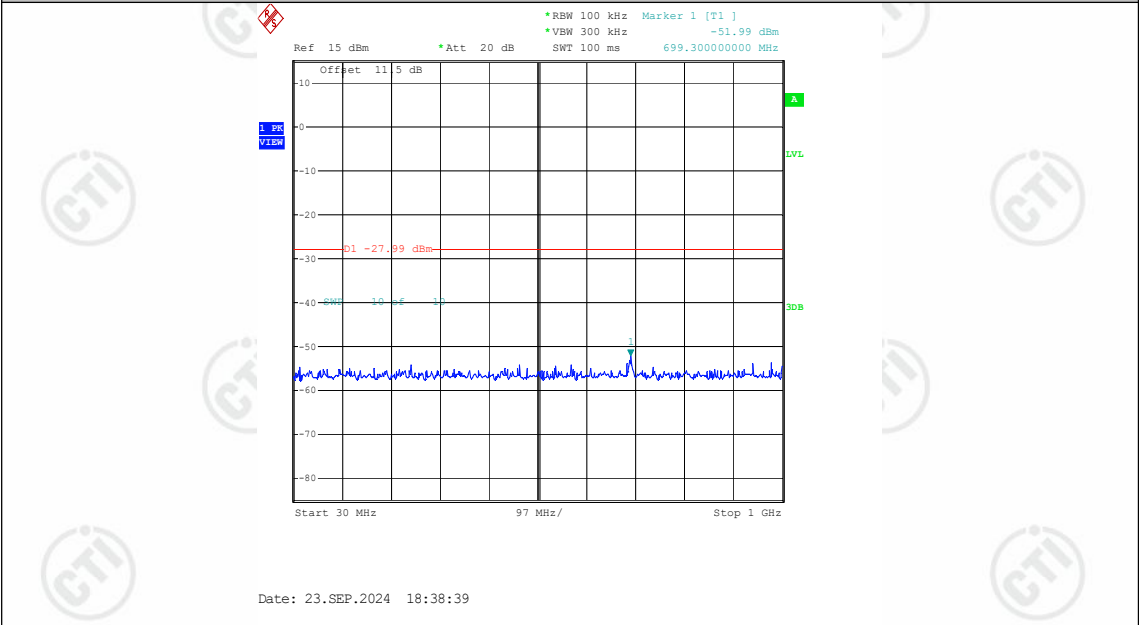
11G-Ant1-2412-30~1000-PASS



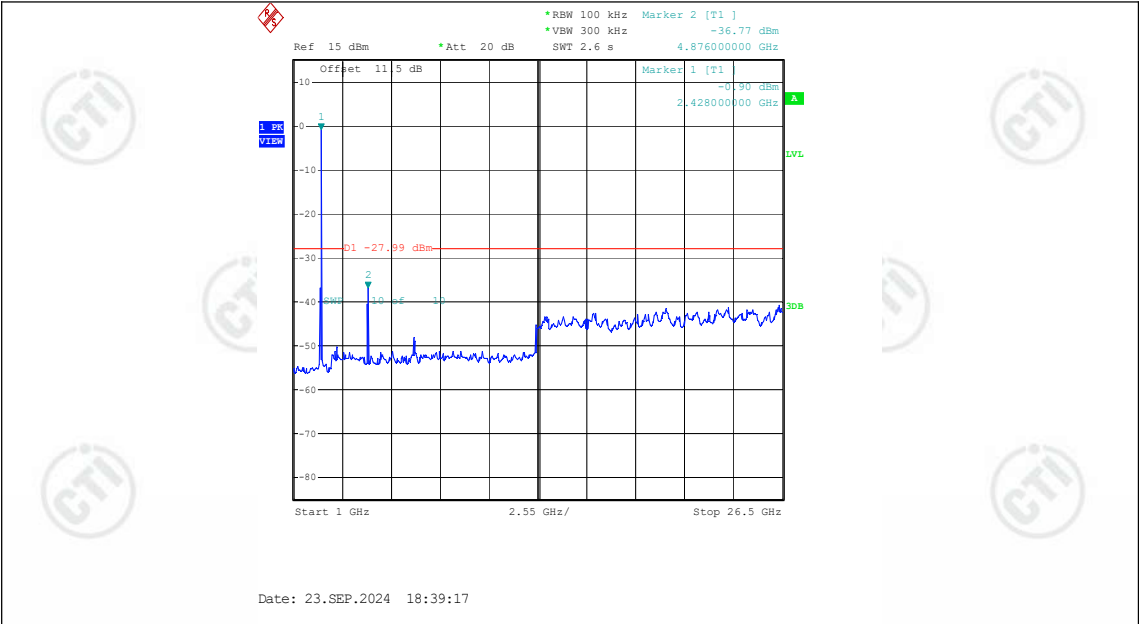
11G-Ant1-2412-1000~26500-PASS



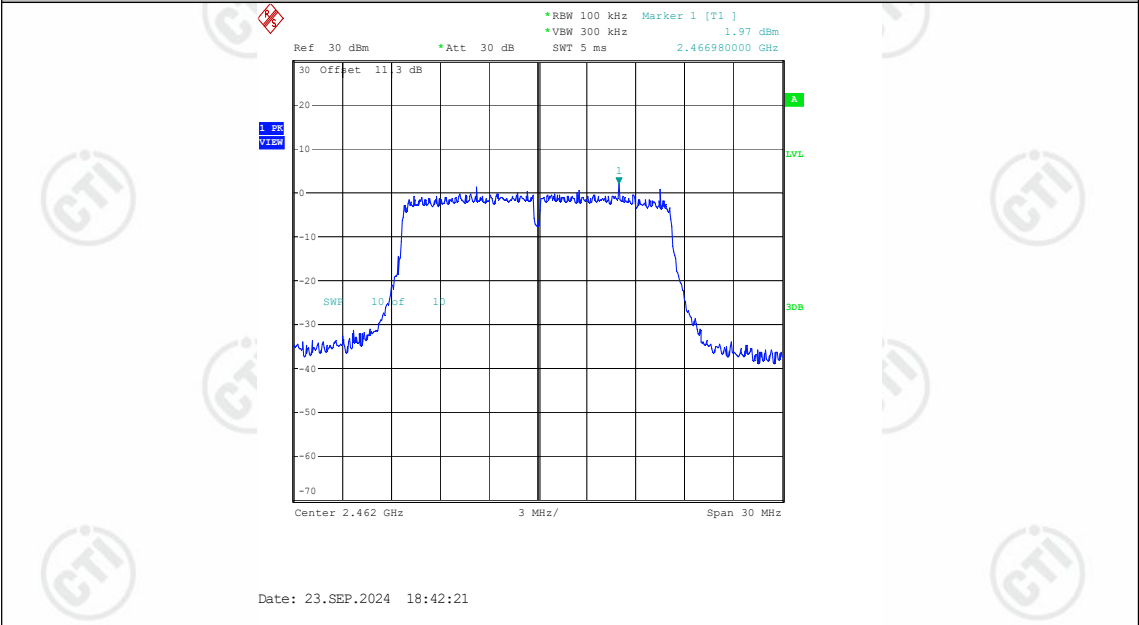
11G-Ant1-2437-0~Reference-PASS



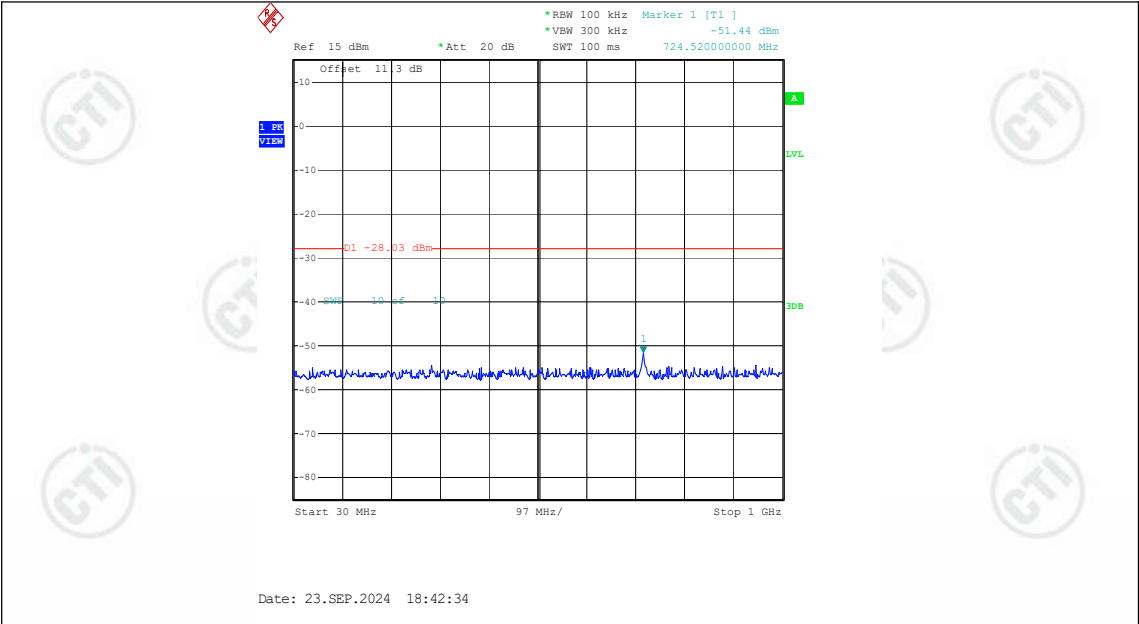
11G-Ant1-2437-30~1000-PASS



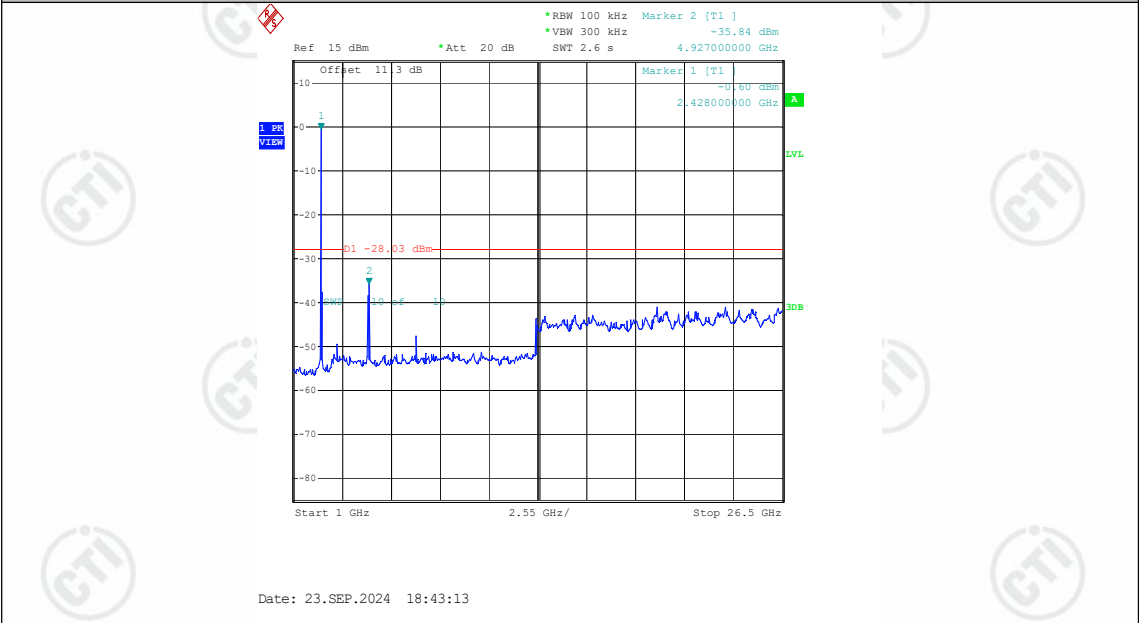
11G-Ant1-2437-1000~26500-PASS



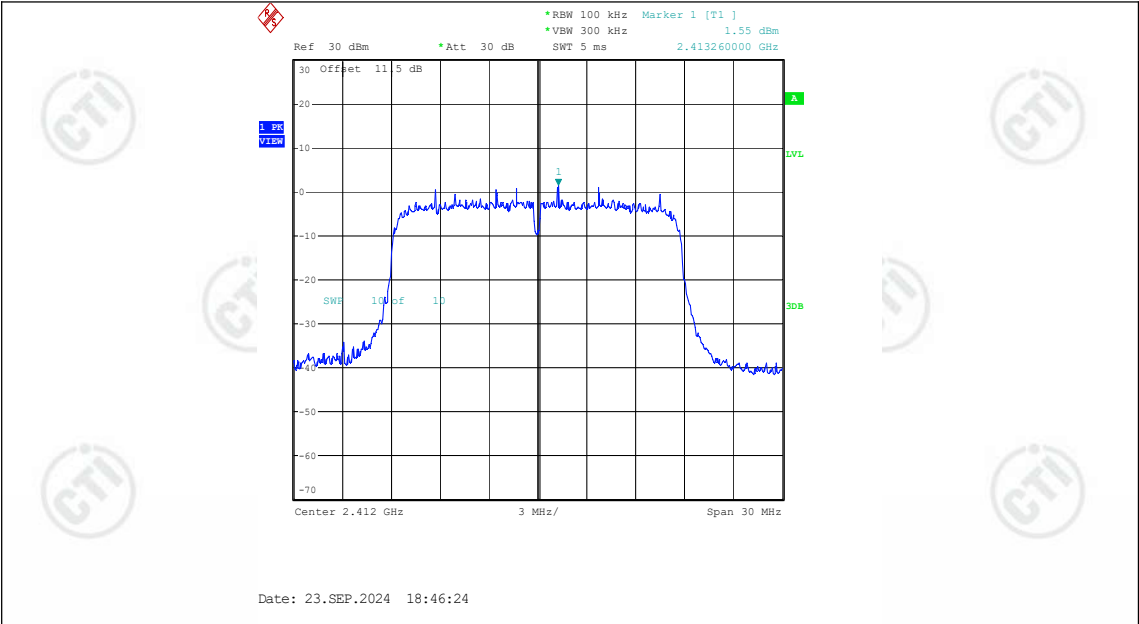
11G-Ant1-2462-0~Reference-PASS



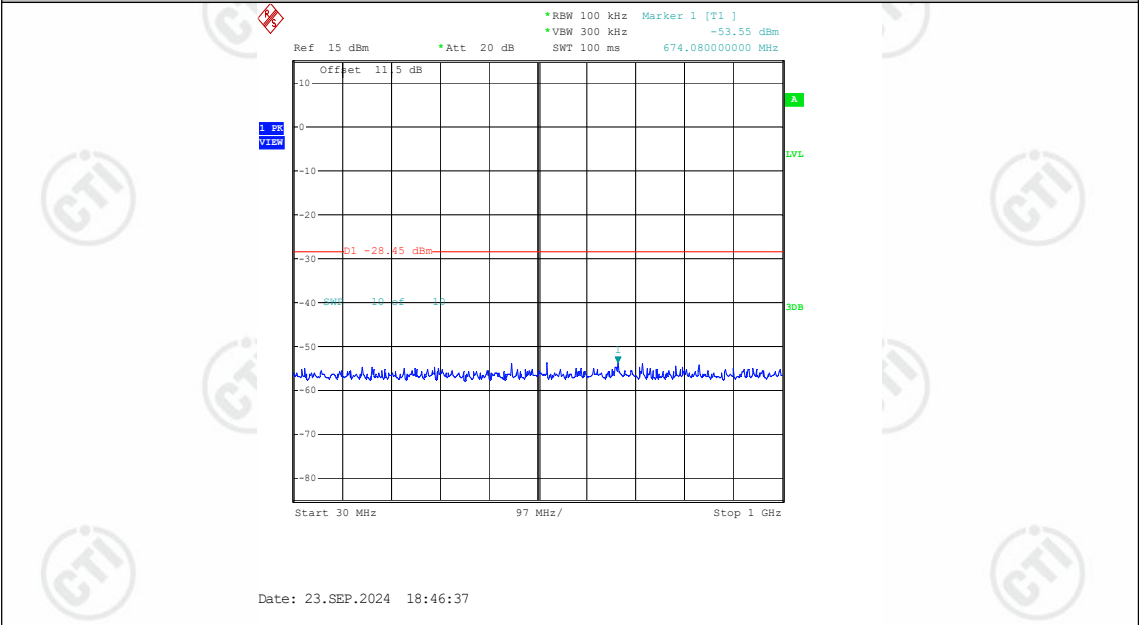
11G-Ant1-2462-30~1000-PASS



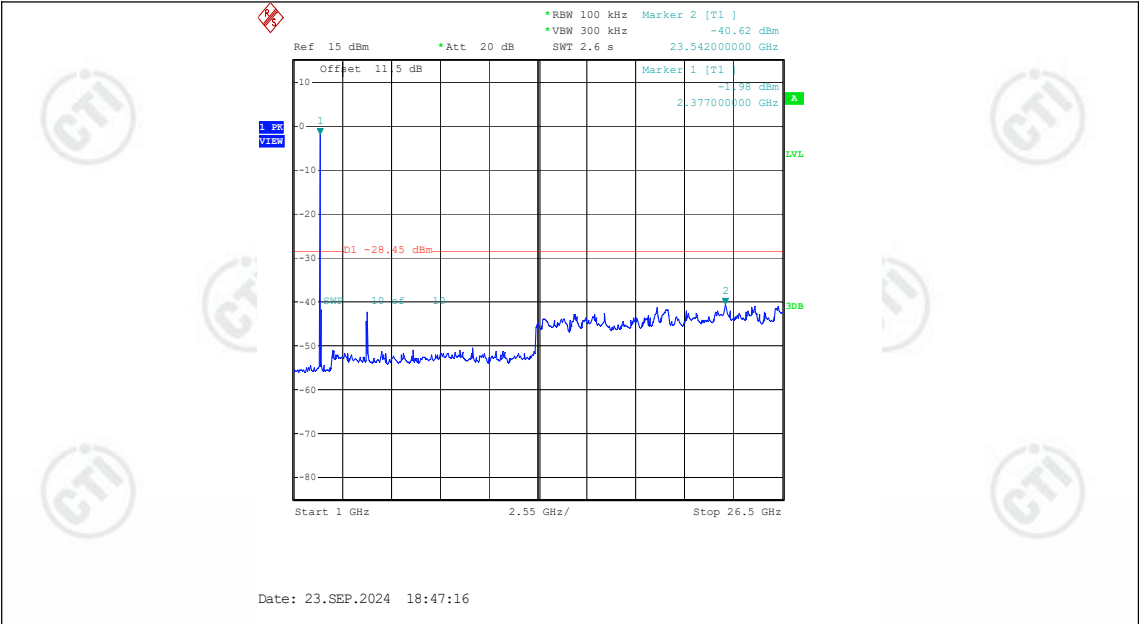
11G-Ant1-2462-1000~26500-PASS



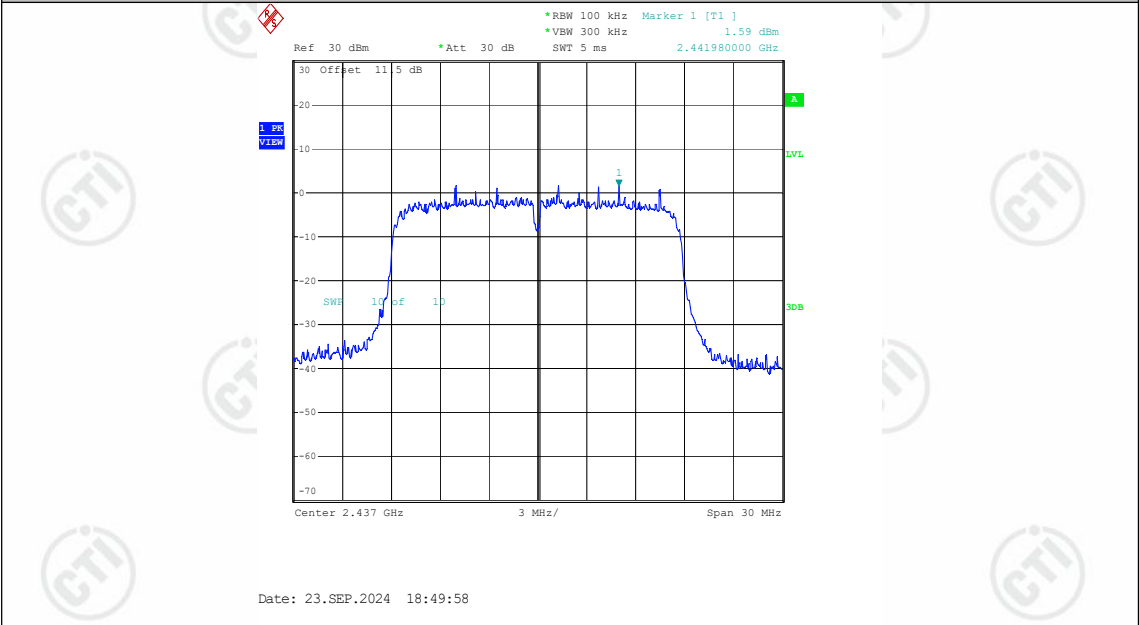
11N20SISO-Ant1-2412-0~Reference-PASS



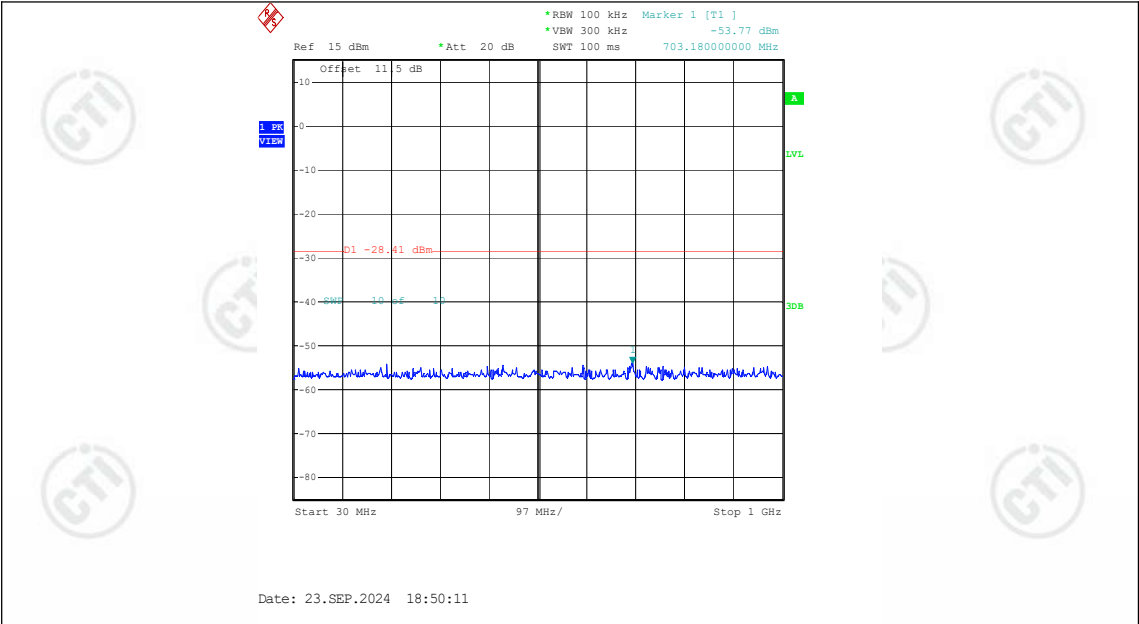
11N20SISO-Ant1-2412-30~1000-PASS



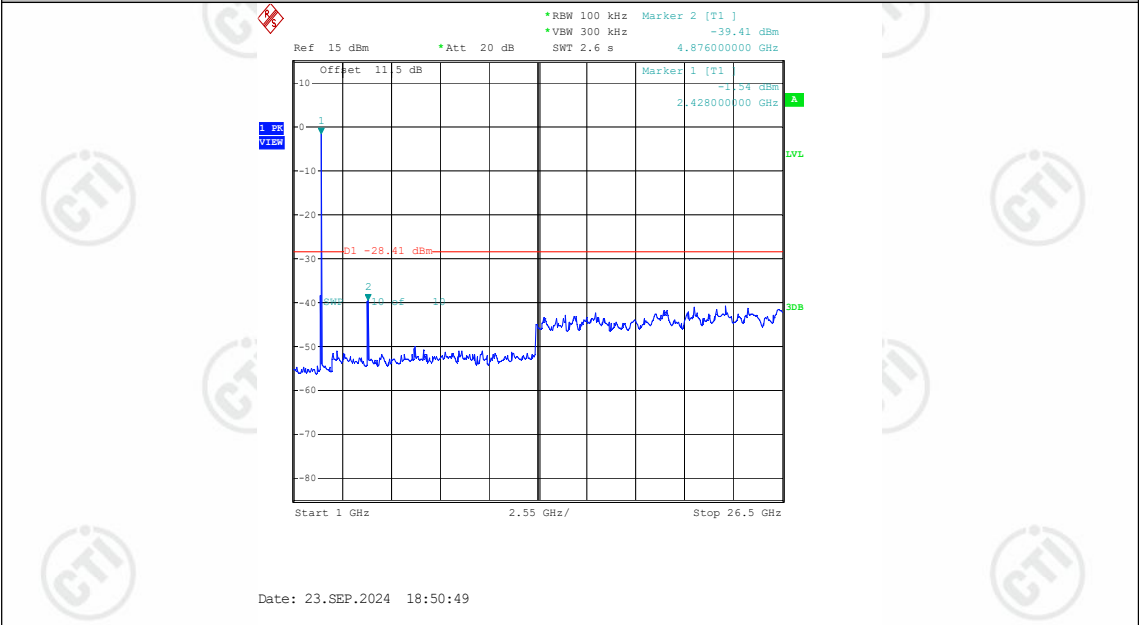
11N20SISO-Ant1-2412-1000~26500-PASS



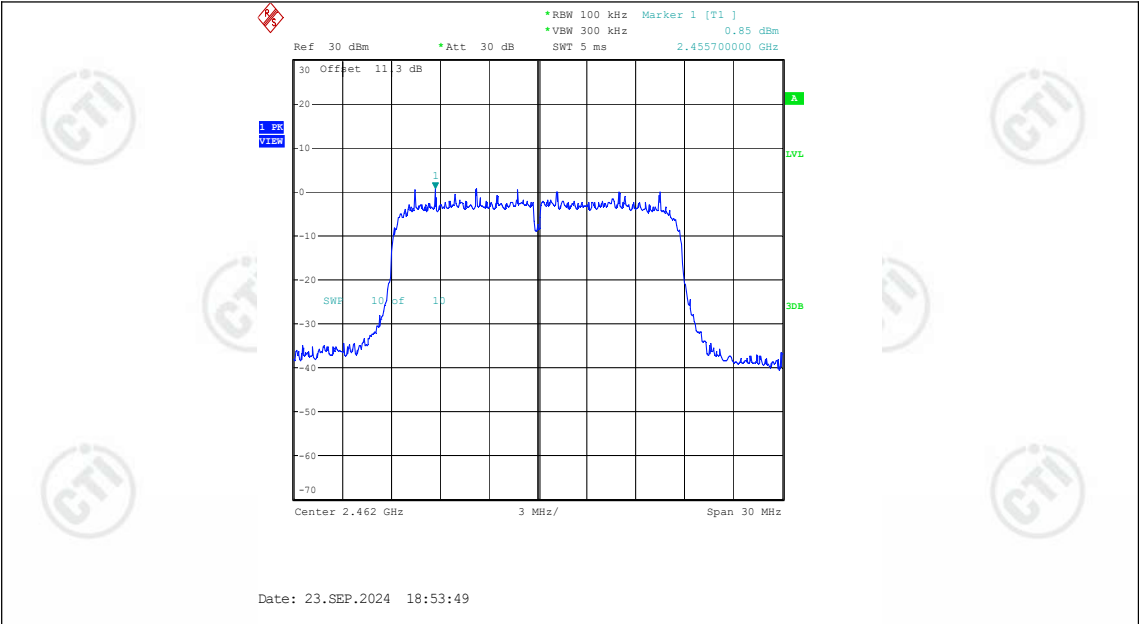
11N20SISO-Ant1-2437-0~Reference-PASS



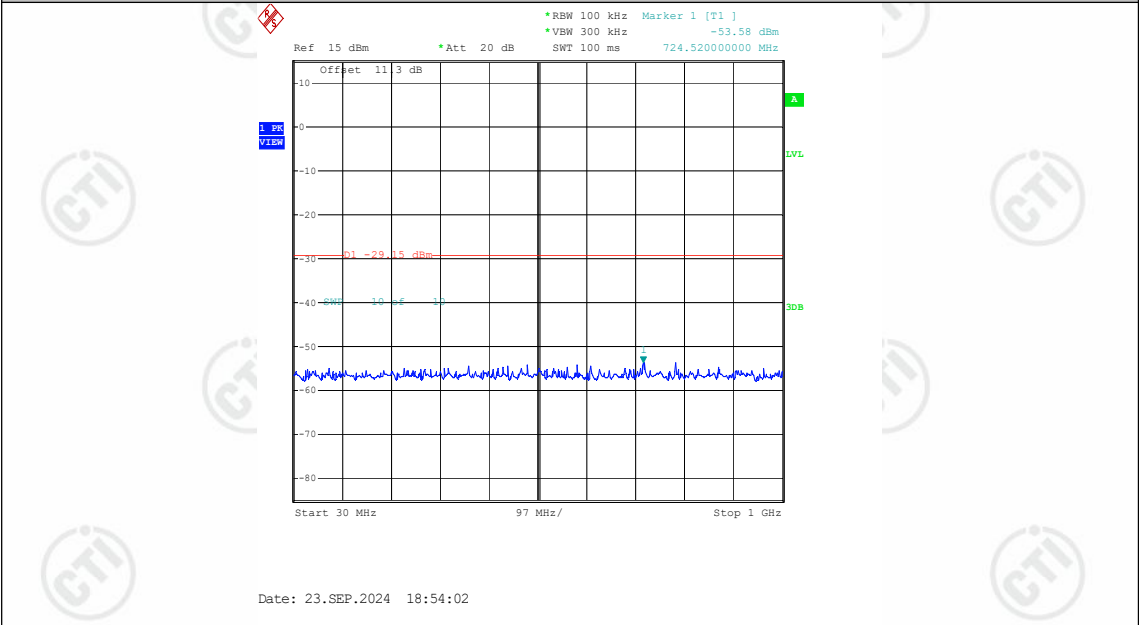
11N20SISO-Ant1-2437-30~1000-PASS



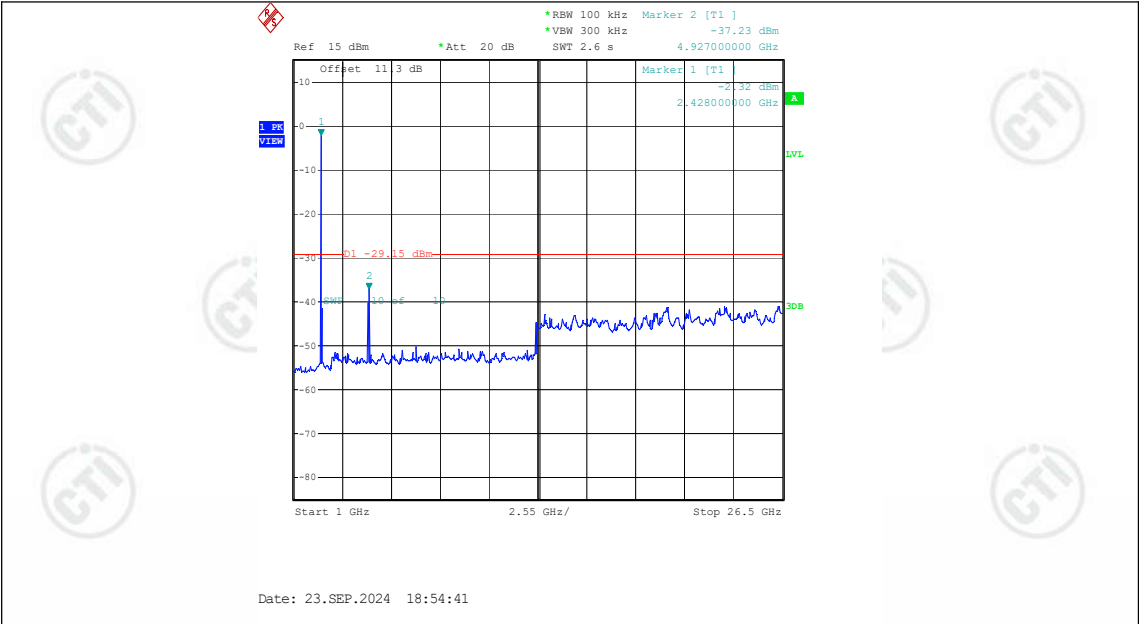
11N20SISO-Ant1-2437-1000~26500-PASS



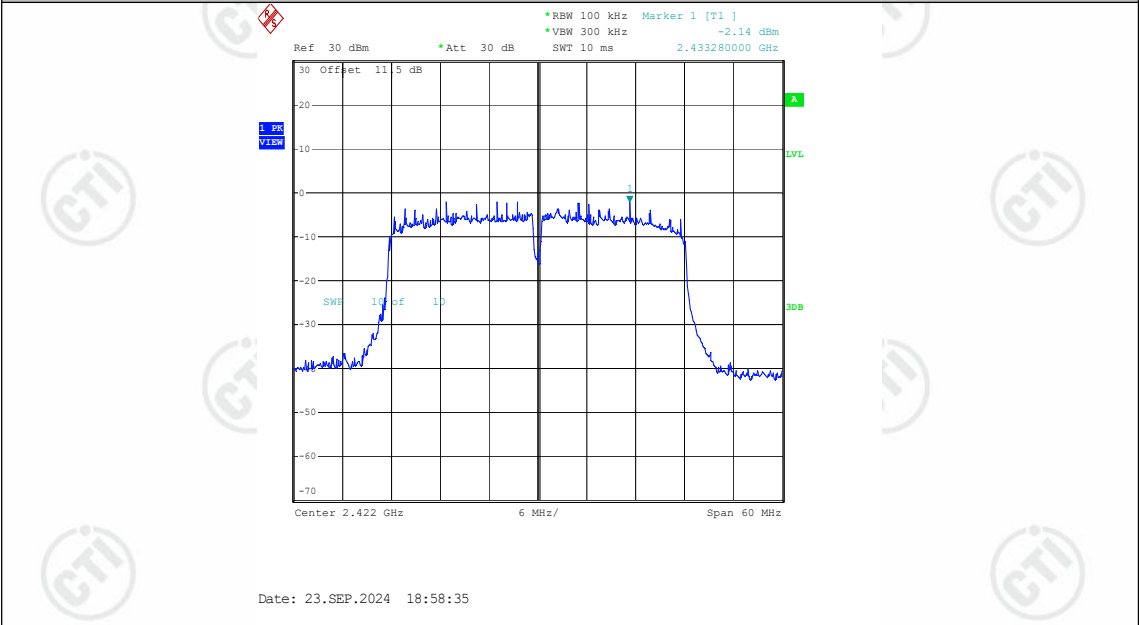
11N20SISO-Ant1-2462-0~Reference-PASS



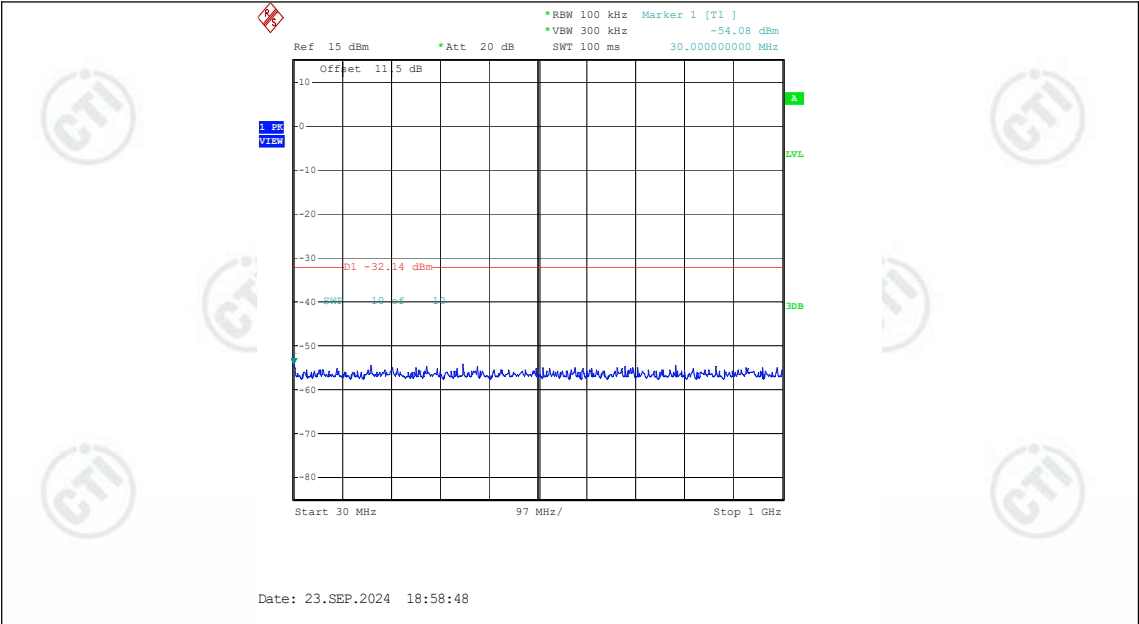
11N20SISO-Ant1-2462-30~1000-PASS



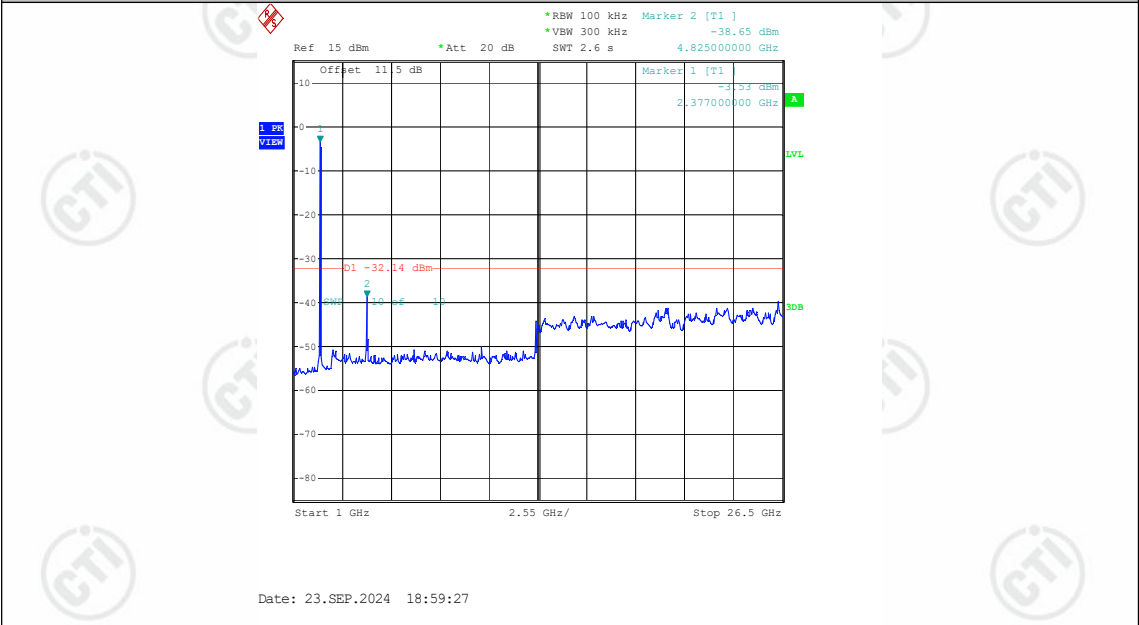
11N20SISO-Ant1-2462-1000~26500-PASS



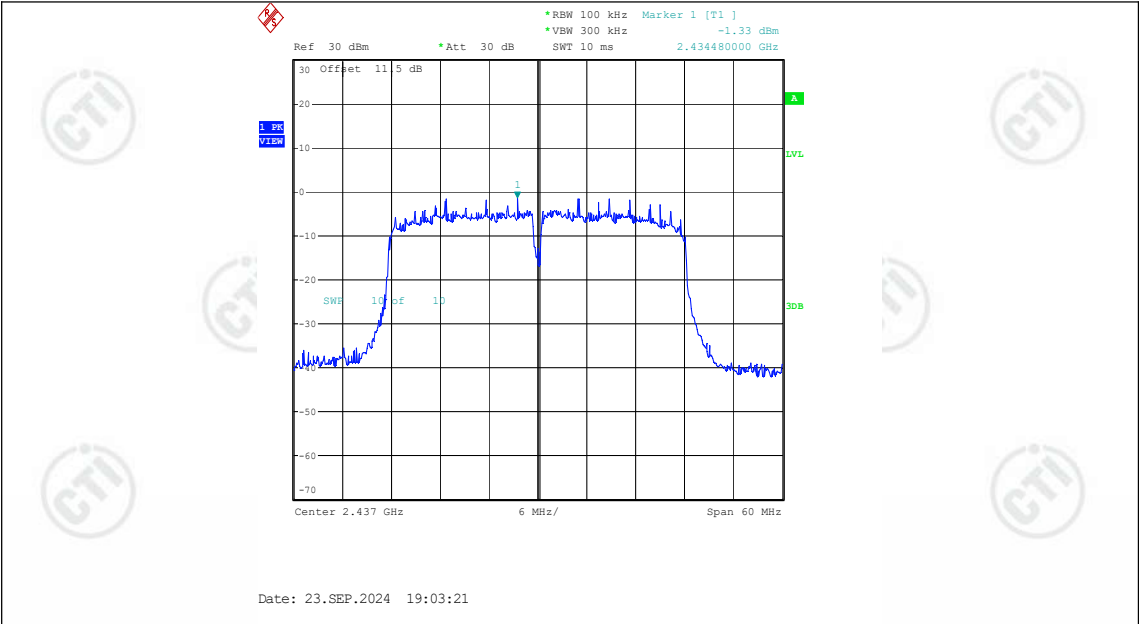
11N40SISO-Ant1-2422-0~Reference-PASS



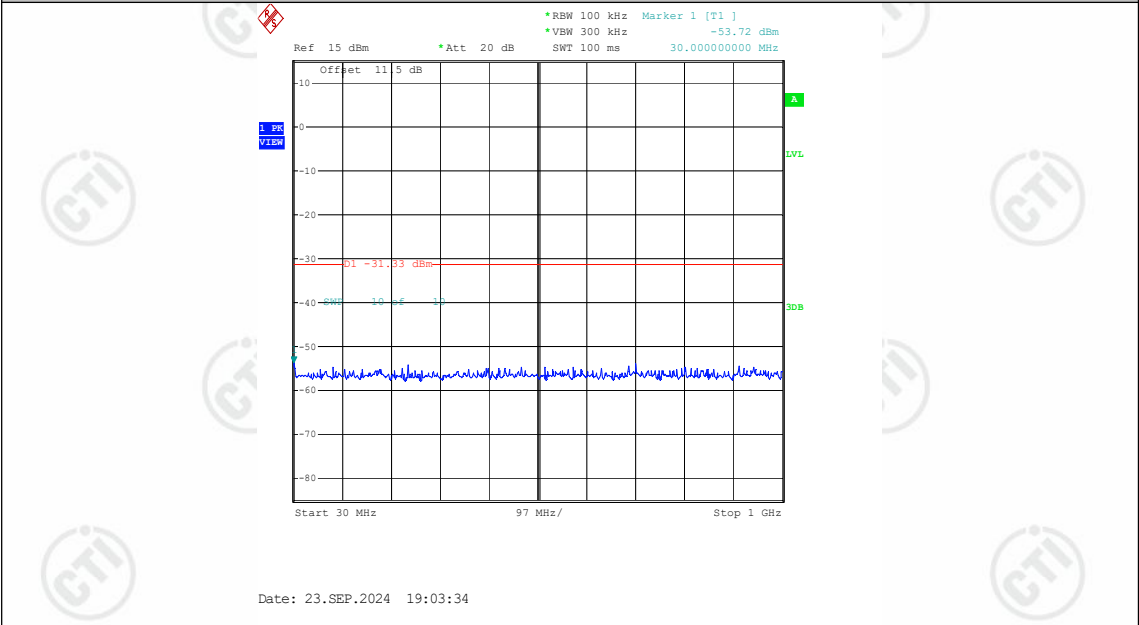
11N40SISO-Ant1-2422-30~1000-PASS



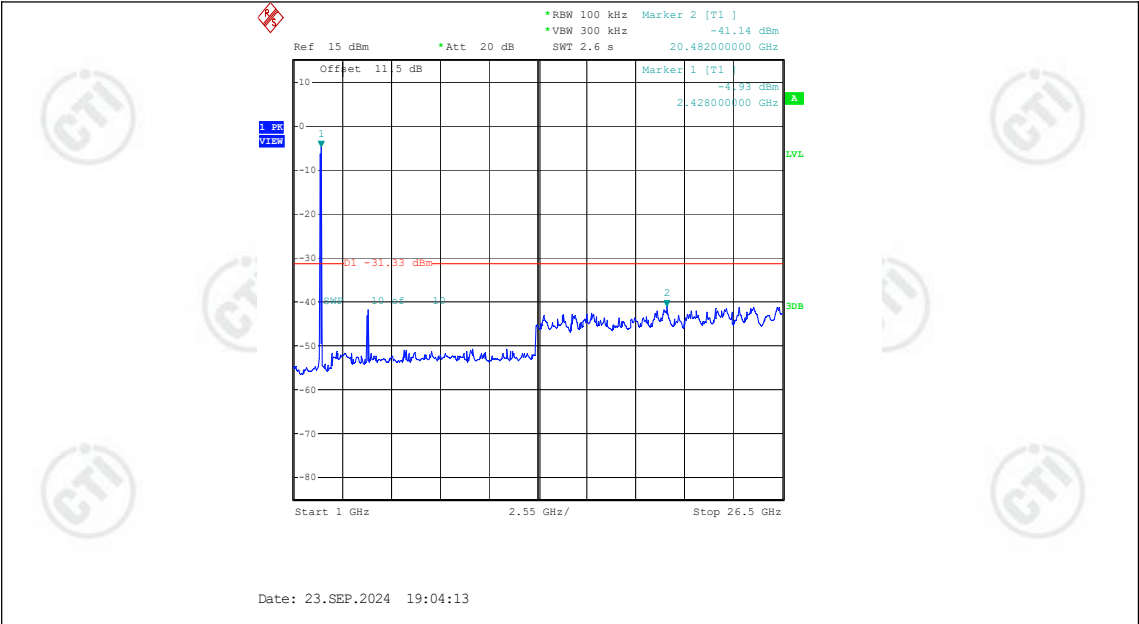
11N40SISO-Ant1-2422-1000~26500-PASS



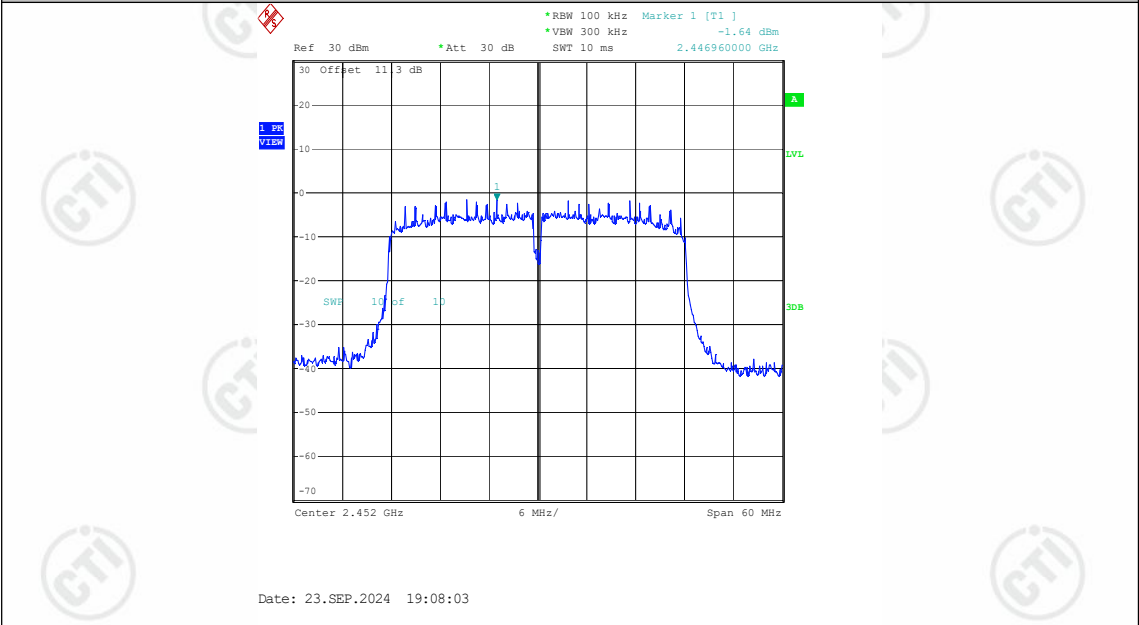
11N40SISO-Ant1-2437-0~Reference-PASS



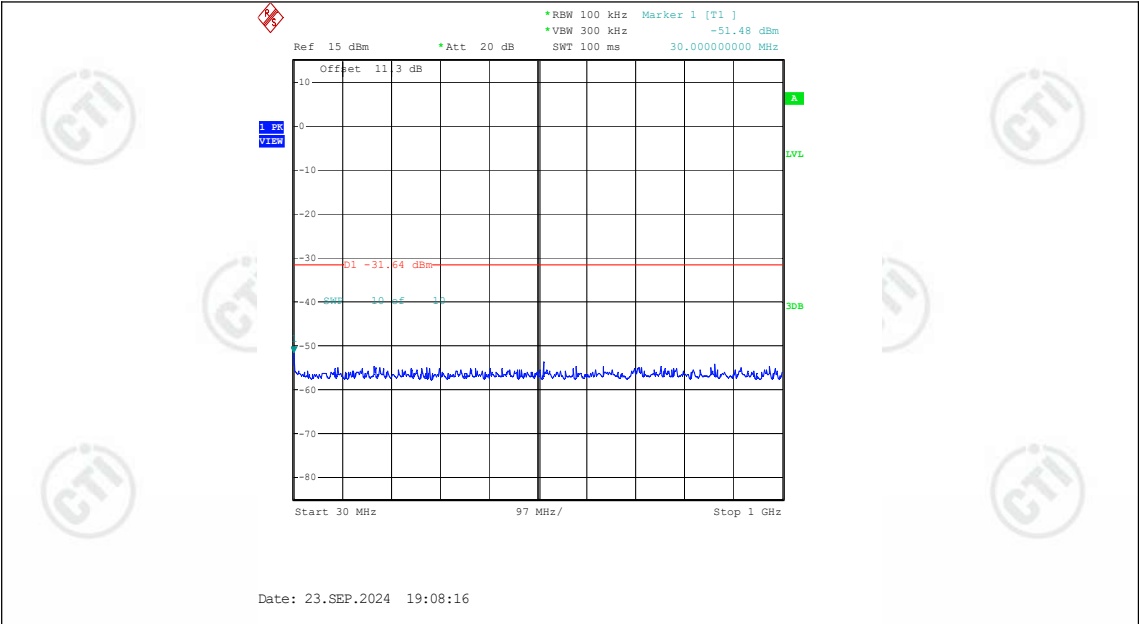
11N40SISO-Ant1-2437-30~1000-PASS



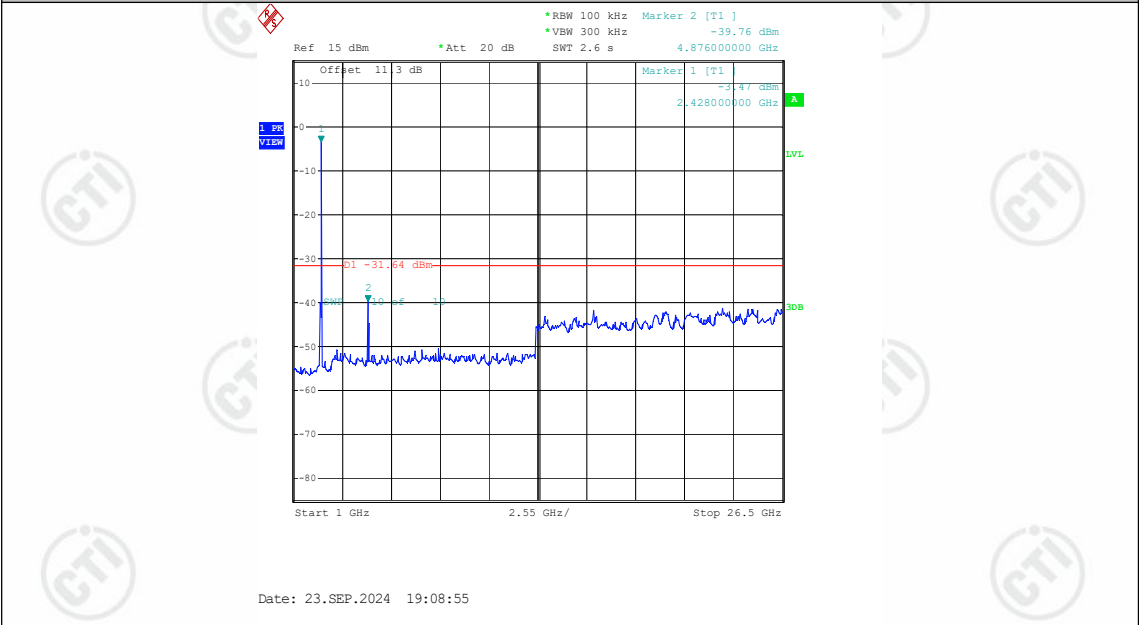
11N40SISO-Ant1-2437-1000~26500-PASS



11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS



11N40SISO-Ant1-2452-1000~26500-PASS

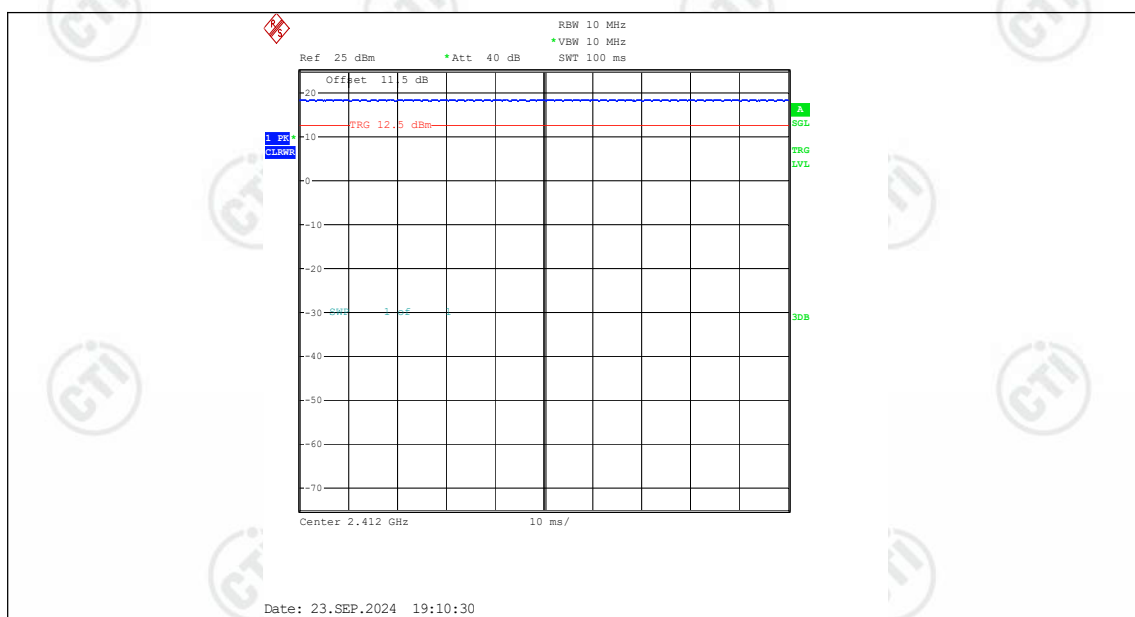
Appendix G: Duty Cycle

Test Result

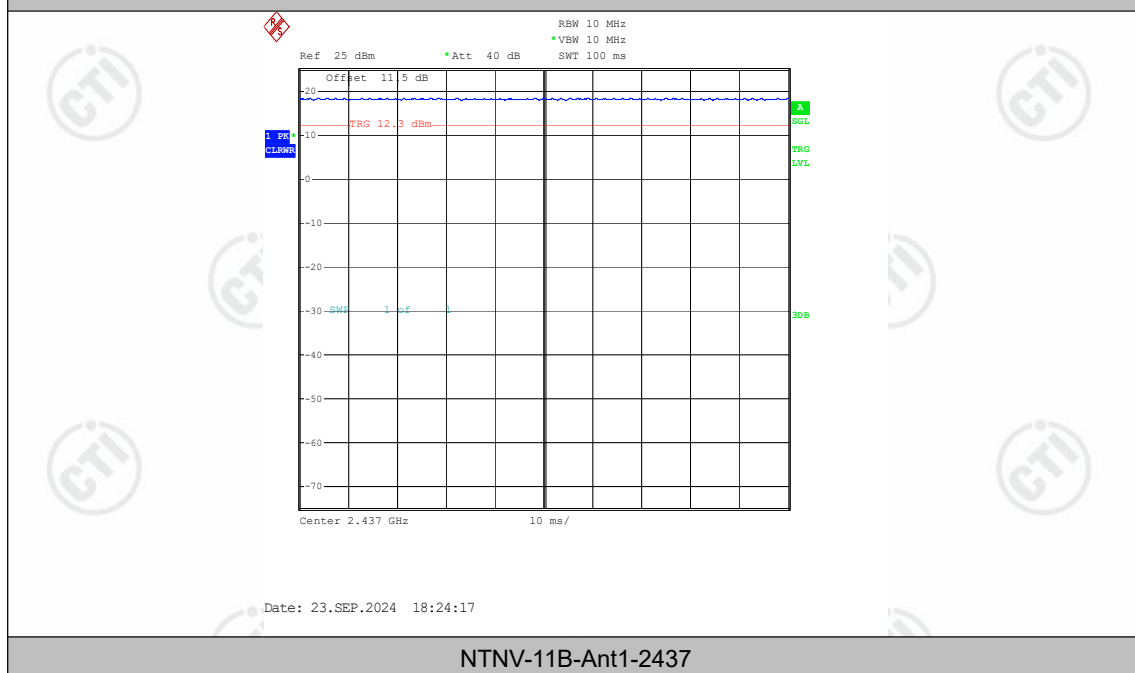
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
11B	Ant1	2412	100.00	100.00	100.00	0.00
11B	Ant1	2437	100.00	100.00	100.00	0.00
11B	Ant1	2462	100.00	100.00	100.00	0.00
11G	Ant1	2412	100.00	100.00	100.00	0.00
11G	Ant1	2437	100.00	100.00	100.00	0.00
11G	Ant1	2462	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2412	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2462	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2422	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2452	100.00	100.00	100.00	0.00

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

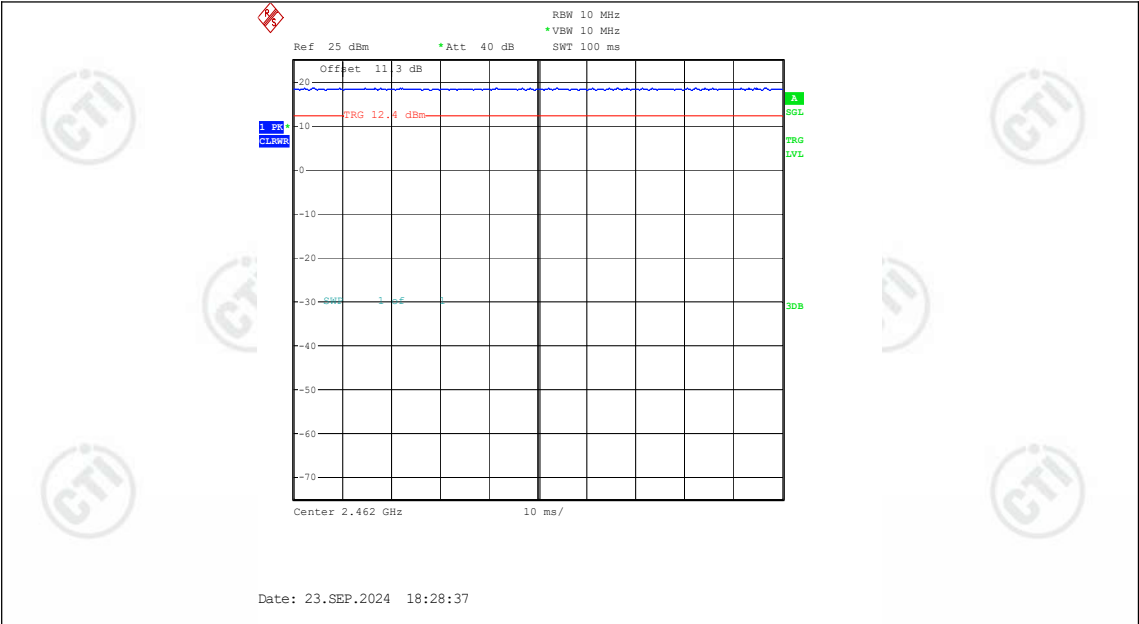
Test Graphs



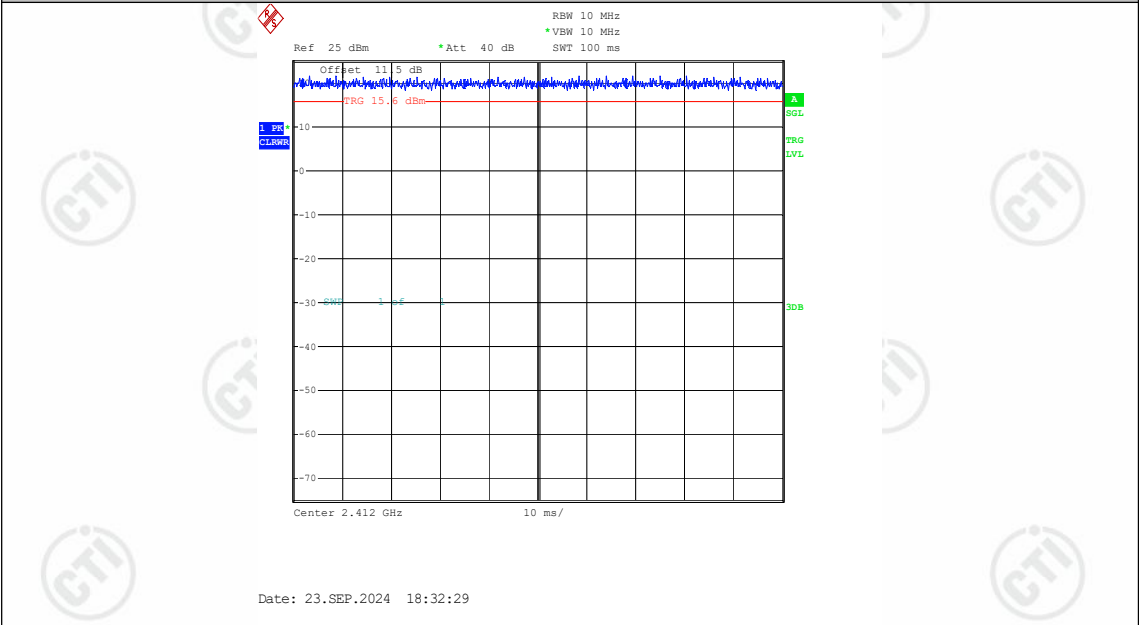
NTNV-11B-Ant1-2412



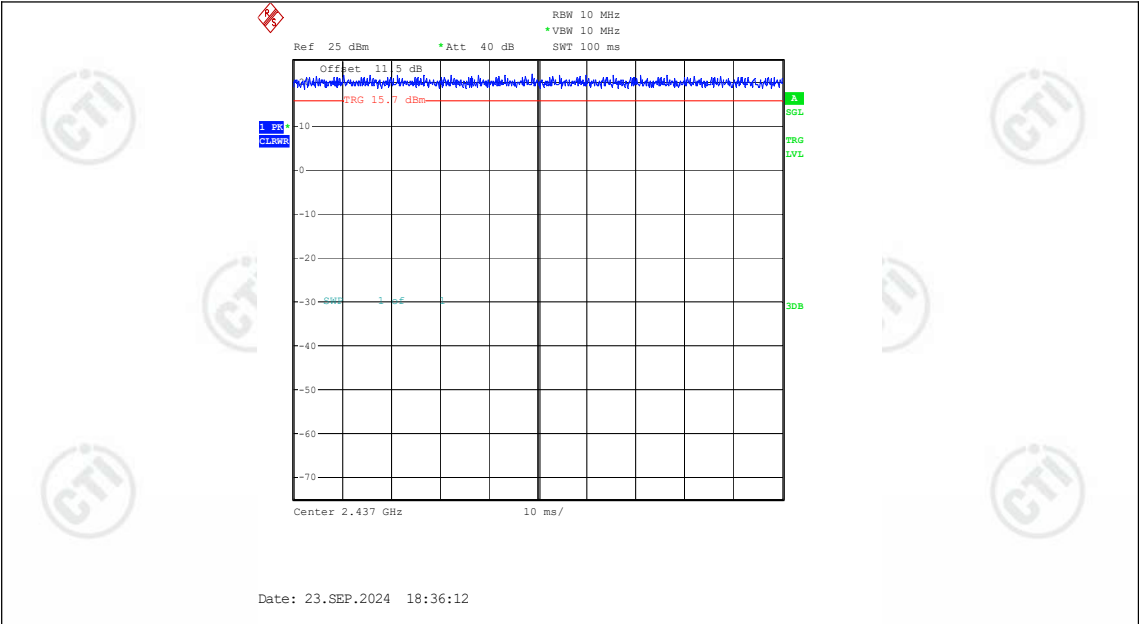
NTNV-11B-Ant1-2437



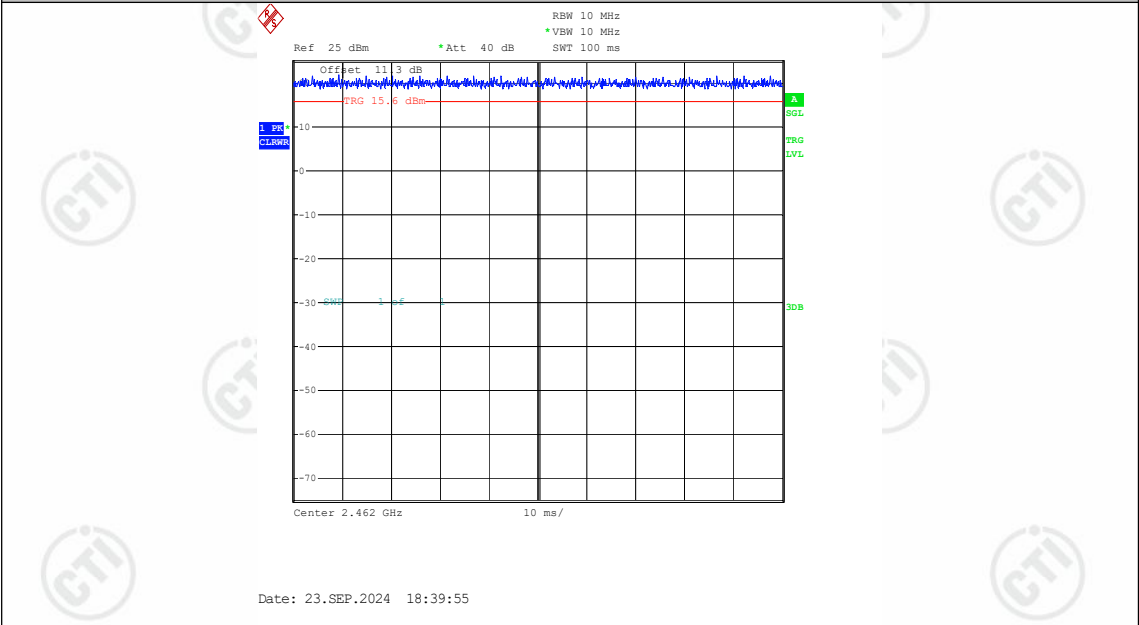
NTNV-11B-Ant1-2462



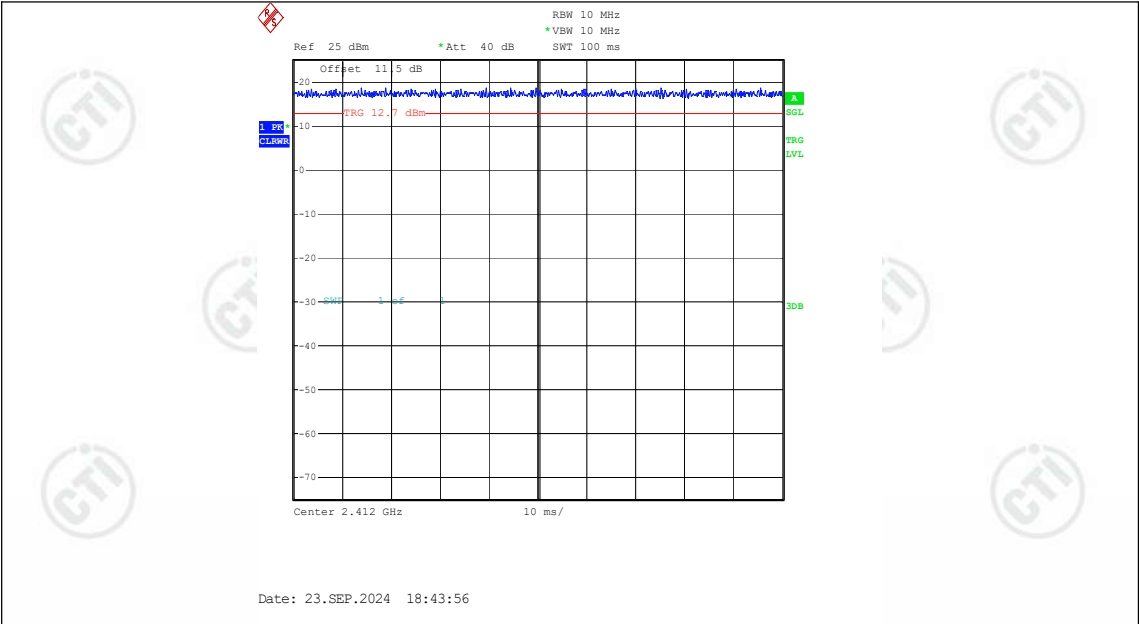
NTNV-11G-Ant1-2412



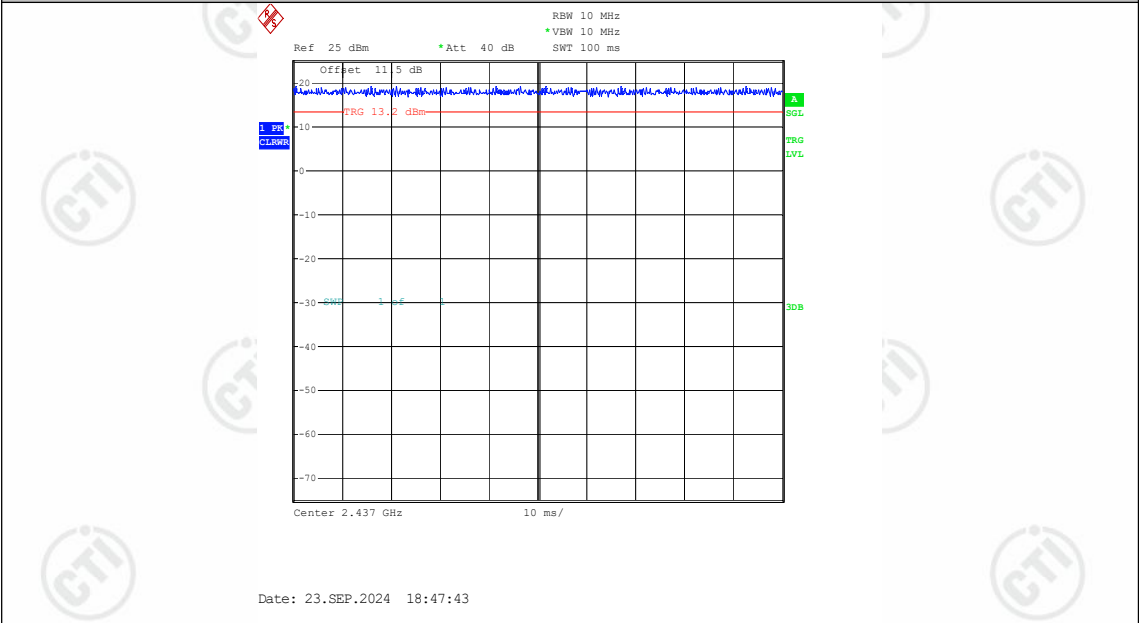
NTNV-11G-Ant1-2437



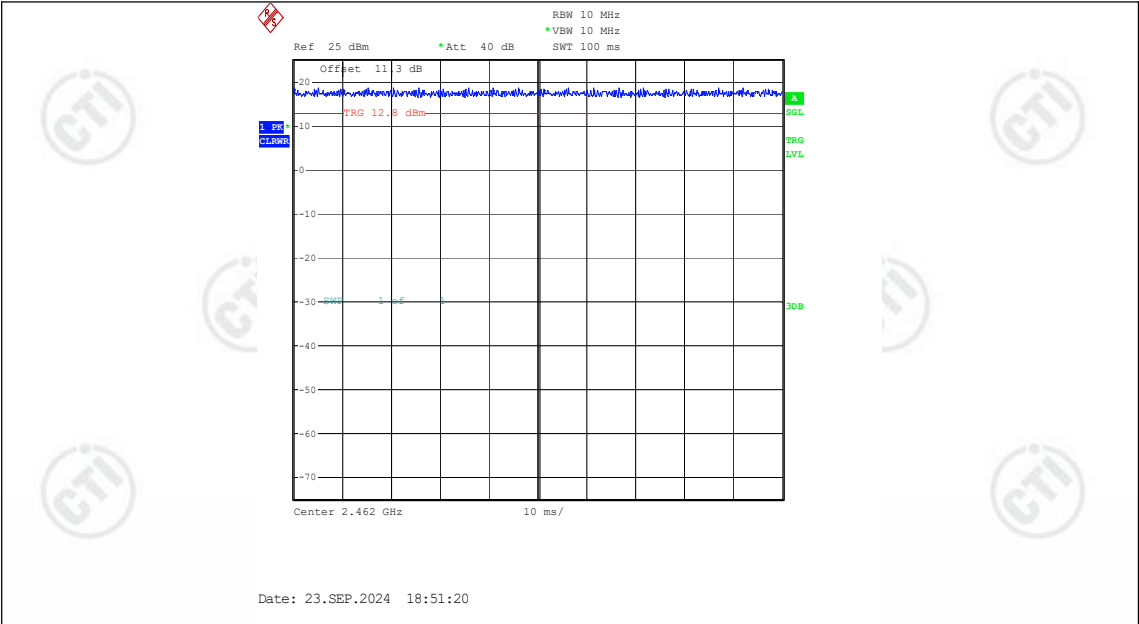
NTNV-11G-Ant1-2462



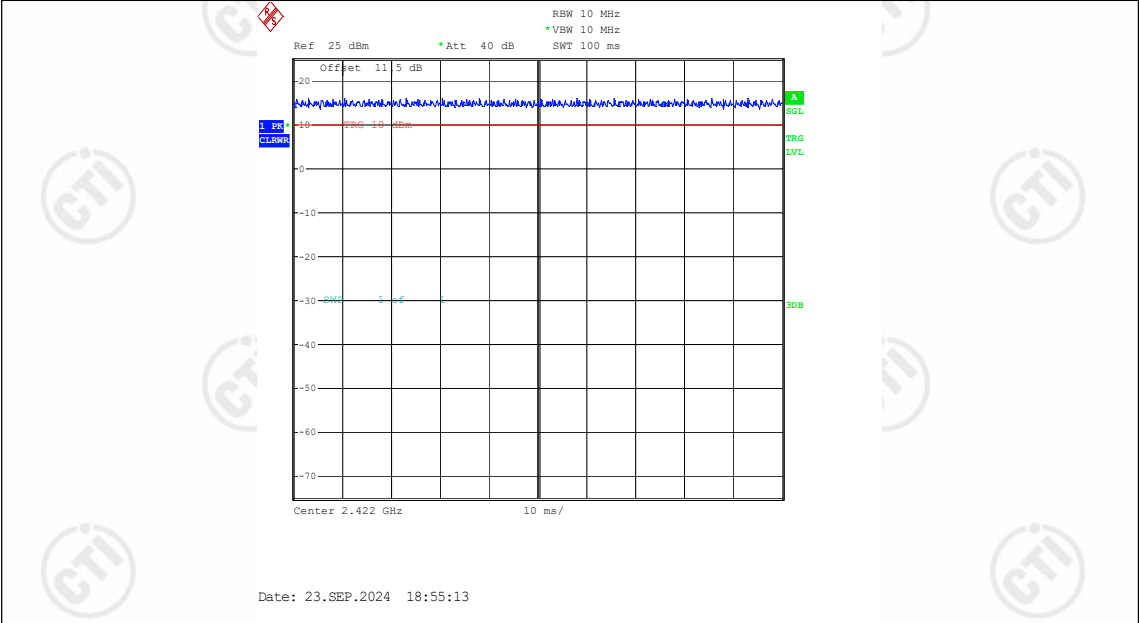
NTNV-11N20SISO-Ant1-2412



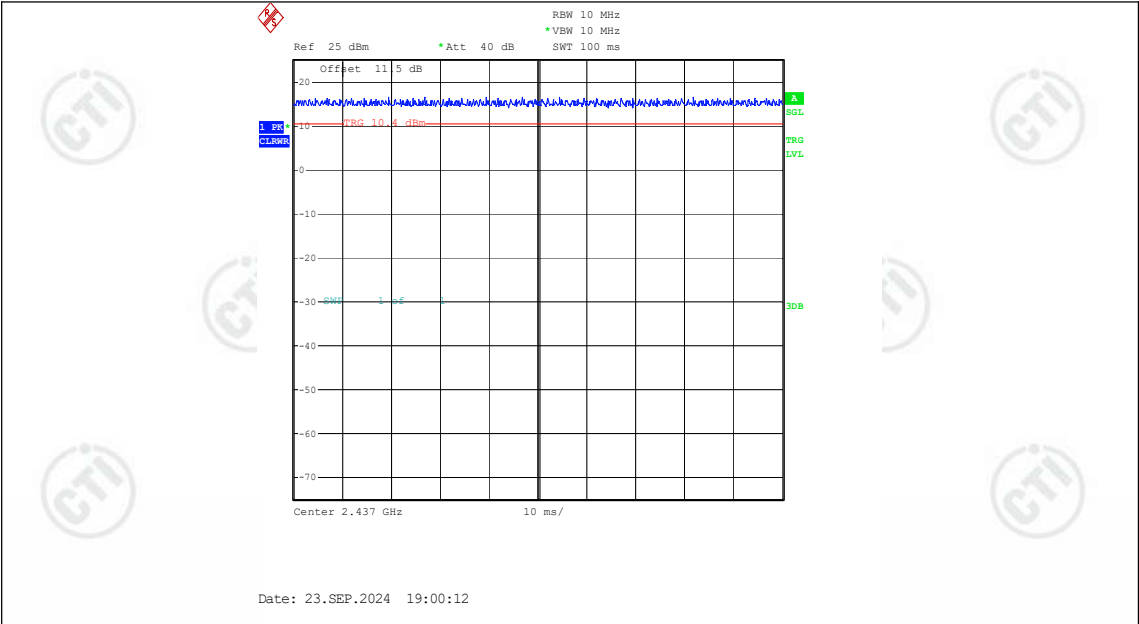
NTNV-11N20SISO-Ant1-2437



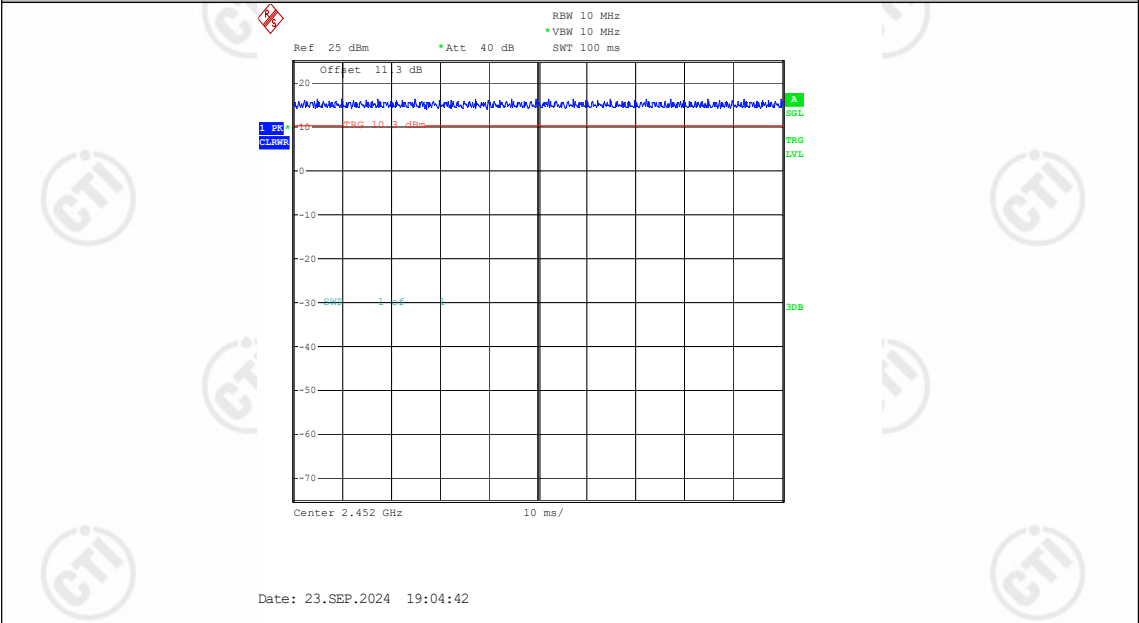
NTNV-11N20SISO-Ant1-2462



NTNV-11N40SISO-Ant1-2422



NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452

END OF REPORT