

Appendix Test Data for WLAN(2. 4G) (Conducted Measurement)

Product Name: Surveillance camera

Trade Mark: /

Test Model: KA01

FCC ID: 2BKUT-KA01

Environmental Conditions

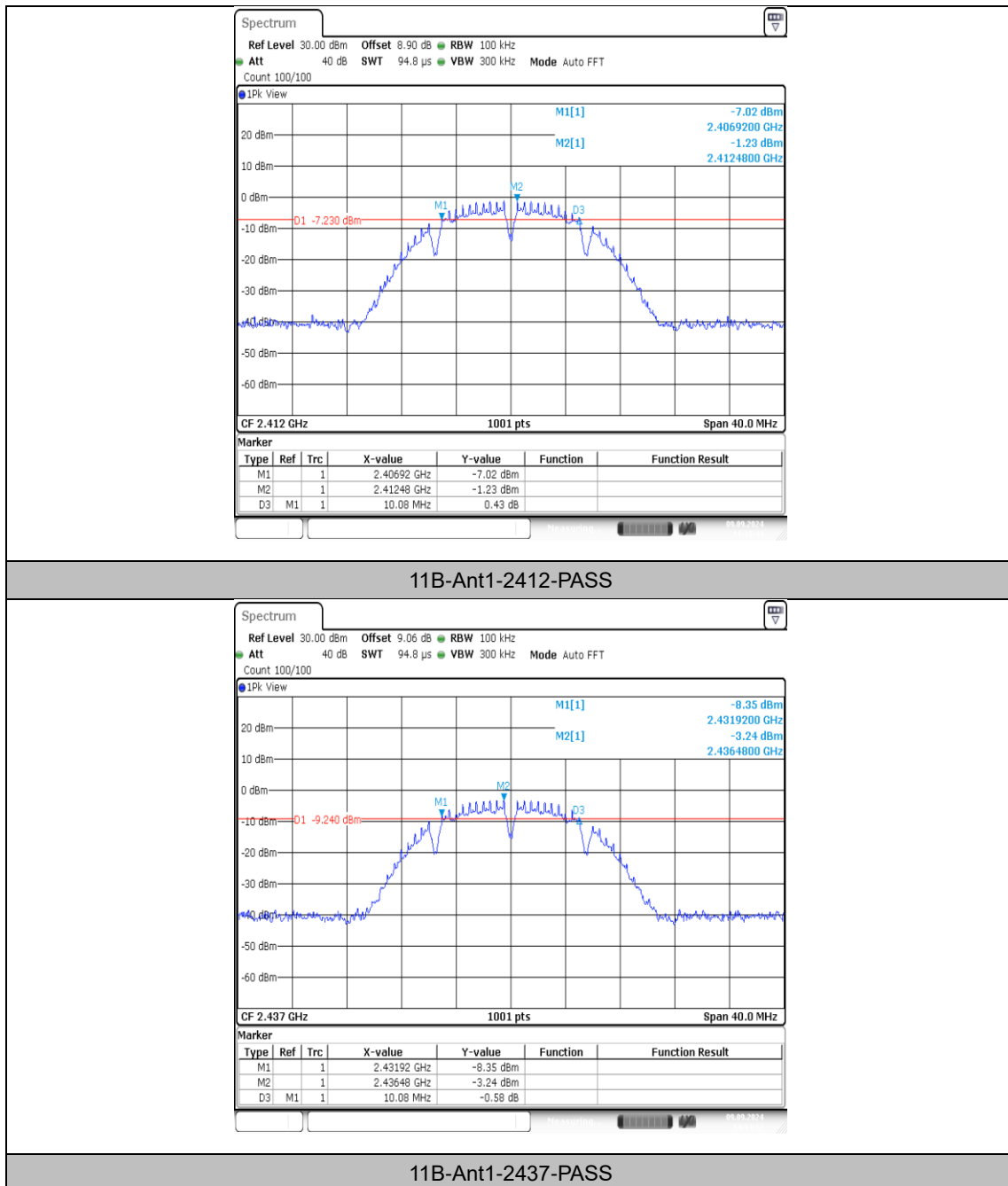
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

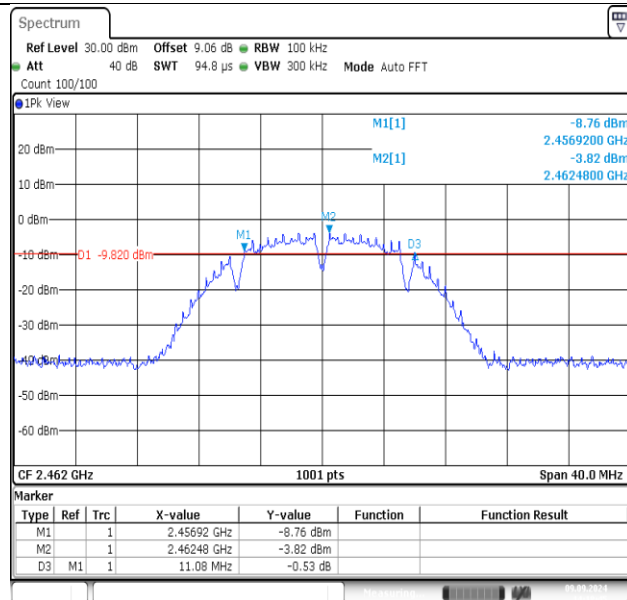
Appendix A: DTS Bandwidth

Test Result

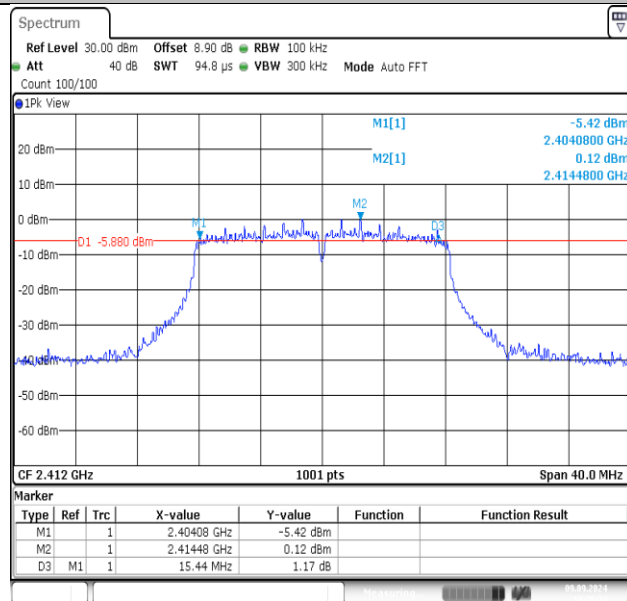
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	2406.92	2417.00	0.5	PASS
11B	Ant1	2437	10.08	2431.92	2442.00	0.5	PASS
11B	Ant1	2462	11.08	2456.92	2468.00	0.5	PASS
11G	Ant1	2412	15.44	2404.08	2419.52	0.5	PASS
11G	Ant1	2437	16.36	2428.80	2445.16	0.5	PASS
11G	Ant1	2462	16.04	2454.08	2470.12	0.5	PASS
11N20SISO	Ant1	2412	16.92	2403.56	2420.48	0.5	PASS
11N20SISO	Ant1	2437	16.16	2428.60	2444.76	0.5	PASS
11N20SISO	Ant1	2462	15.92	2454.20	2470.12	0.5	PASS

Test Graphs

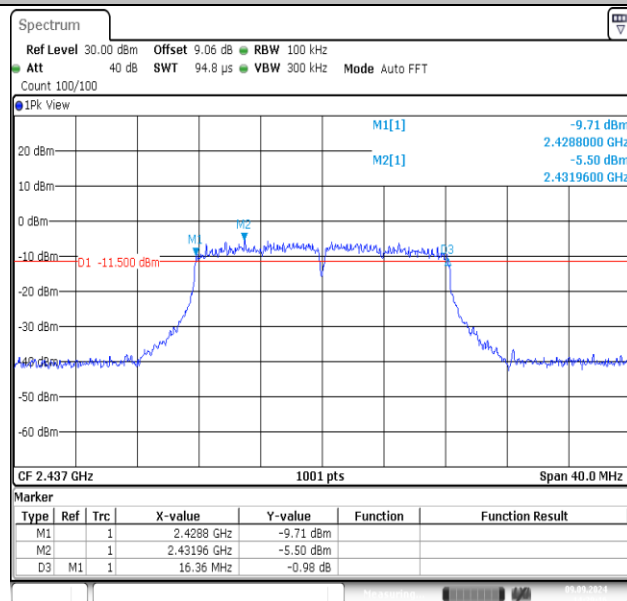




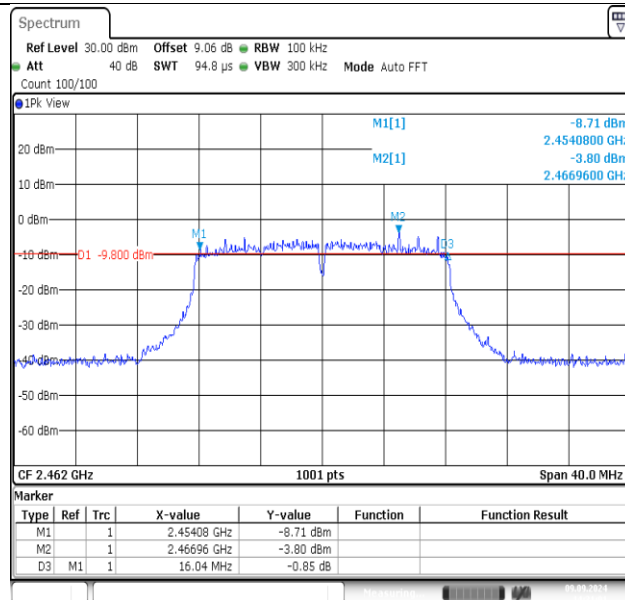
11B-Ant1-2462-PASS



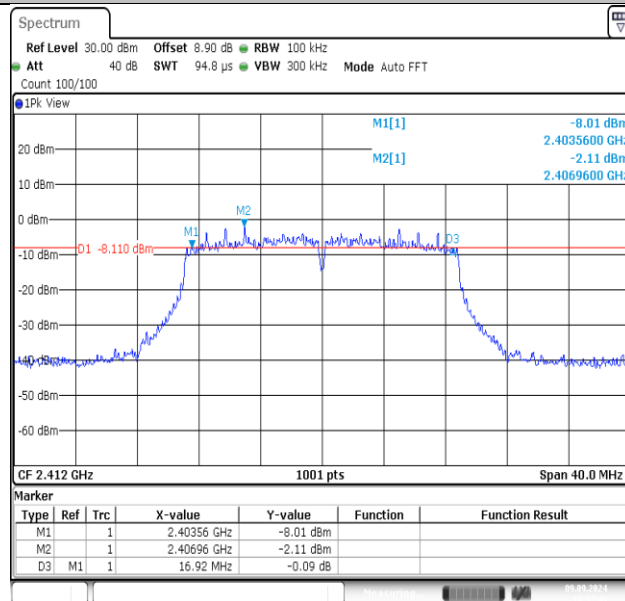
11G-Ant1-2412-PASS



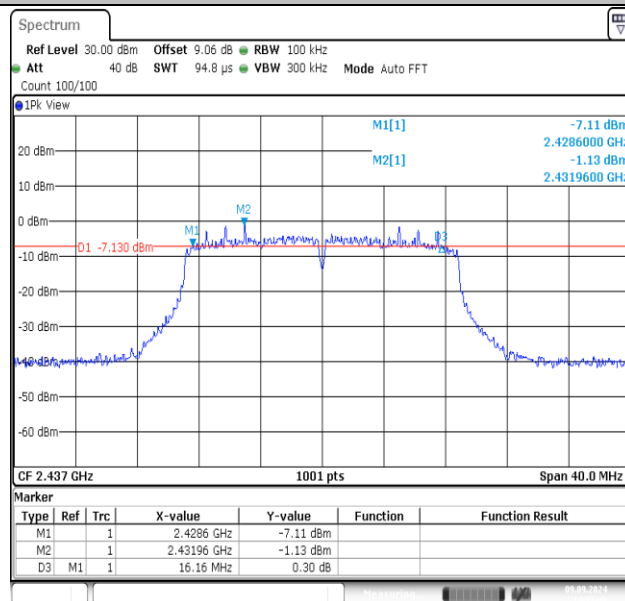
11G-Ant1-2437-PASS



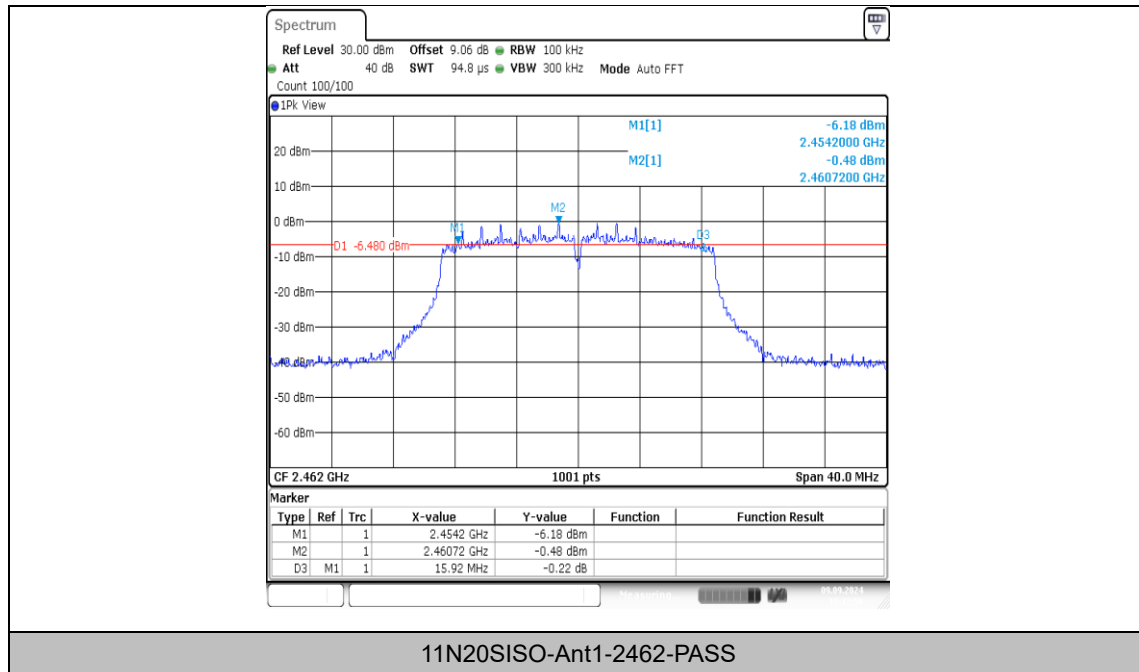
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS

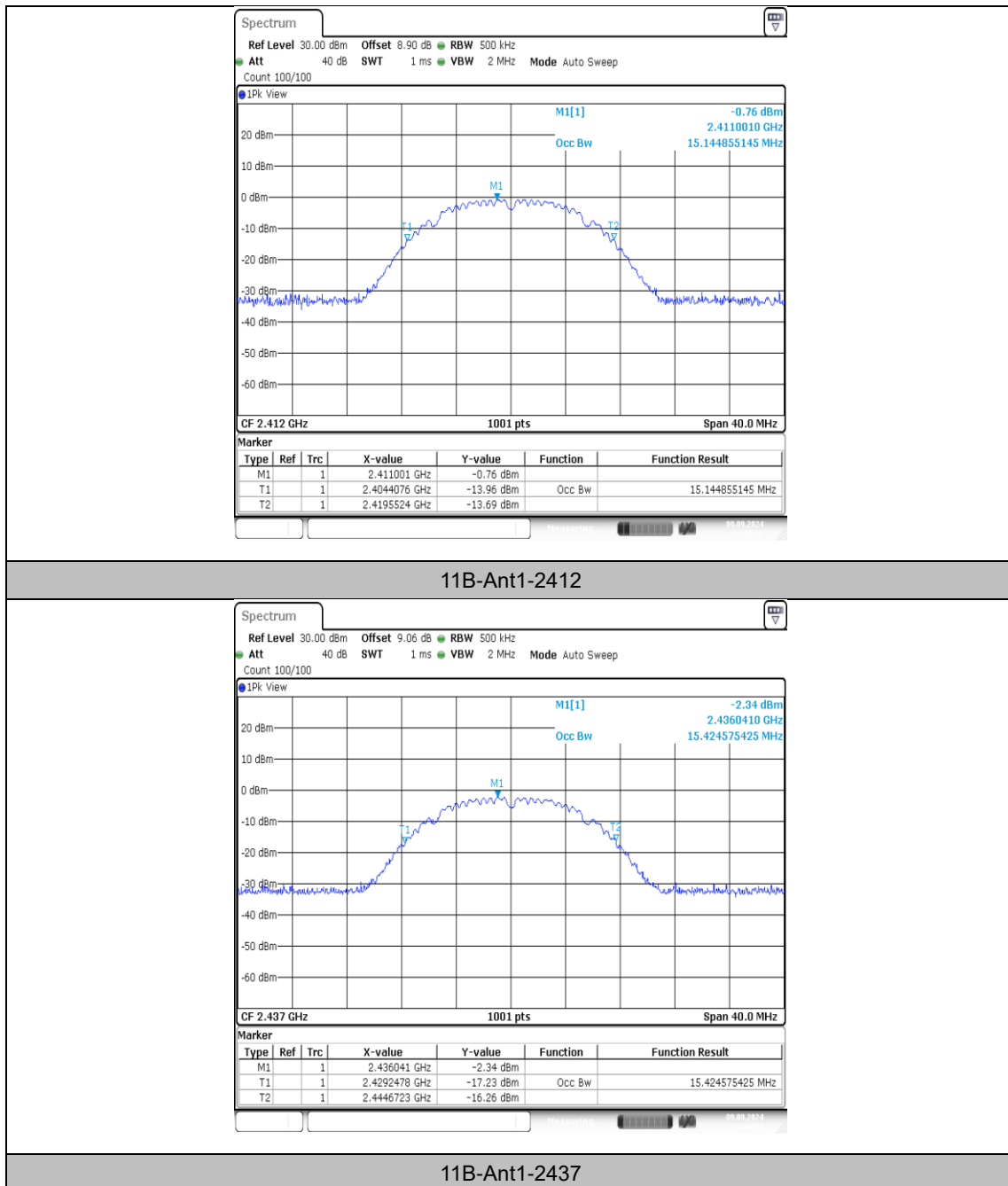


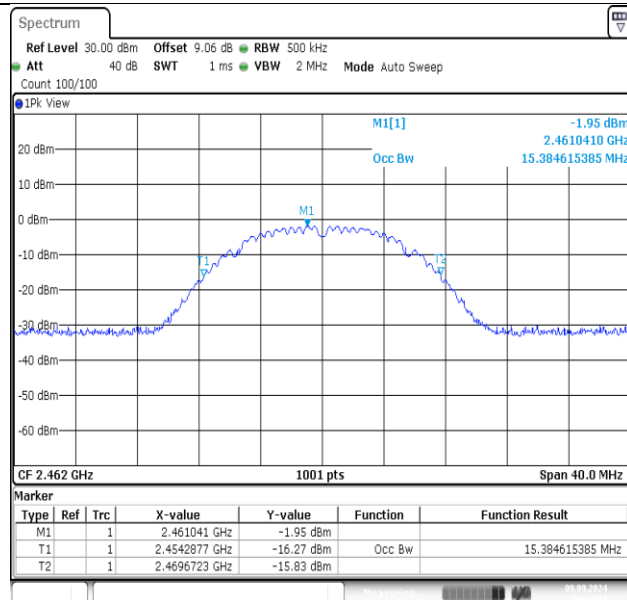
Appendix B: Occupied Channel Bandwidth

Test Result

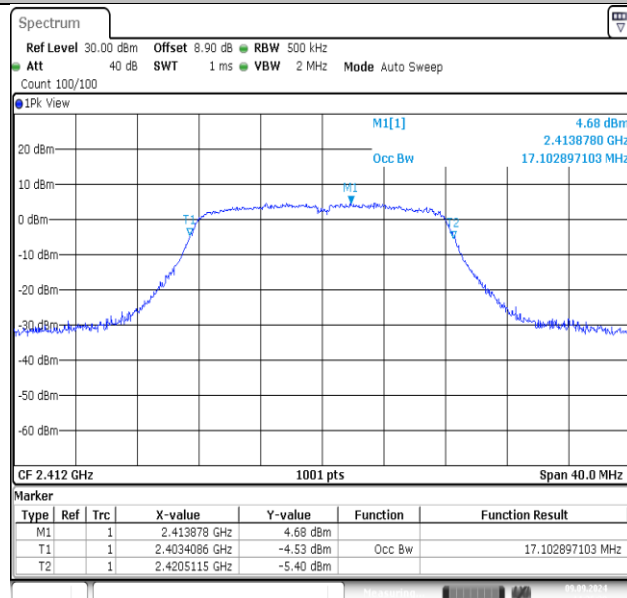
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.145	2404.4076	2419.5524	---	---
11B	Ant1	2437	15.425	2429.2478	2444.6723	---	---
11B	Ant1	2462	15.385	2454.2877	2469.6723	---	---
11G	Ant1	2412	17.103	2403.4086	2420.5115	---	---
11G	Ant1	2437	17.063	2428.4486	2445.5115	---	---
11G	Ant1	2462	16.983	2453.4885	2470.4715	---	---
11N20SISO	Ant1	2412	18.222	2402.8092	2421.0310	---	---
11N20SISO	Ant1	2437	18.022	2427.9690	2445.9910	---	---
11N20SISO	Ant1	2462	18.182	2452.8891	2471.0709	---	---

Test Graphs

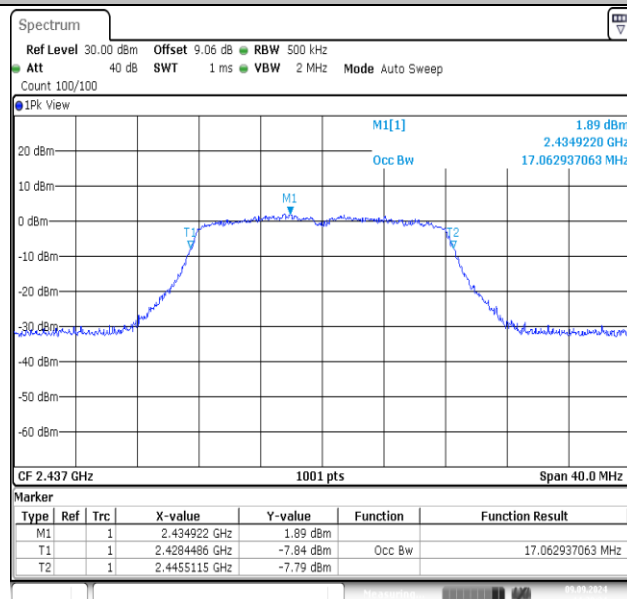




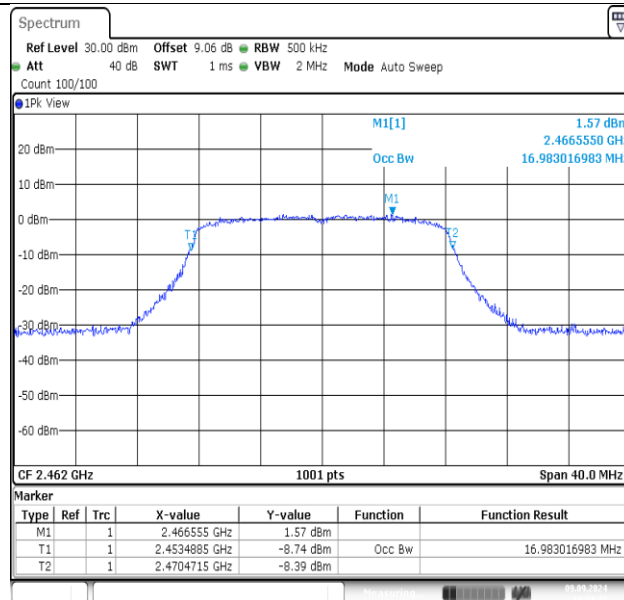
11B-Ant1-2462



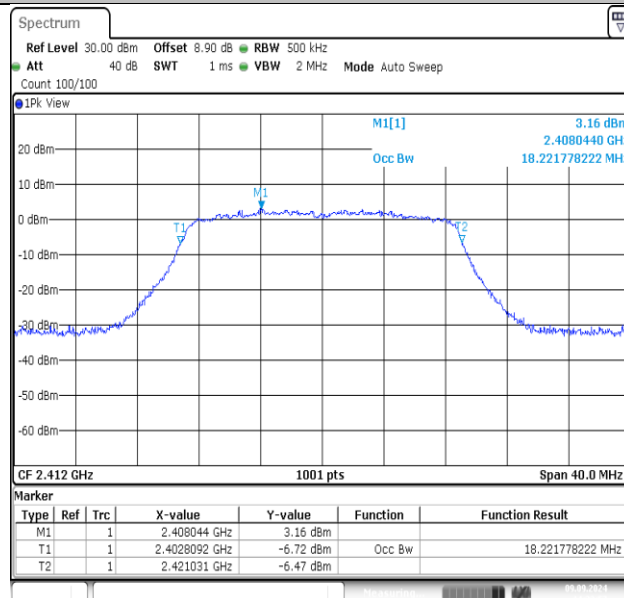
11G-Ant1-2412



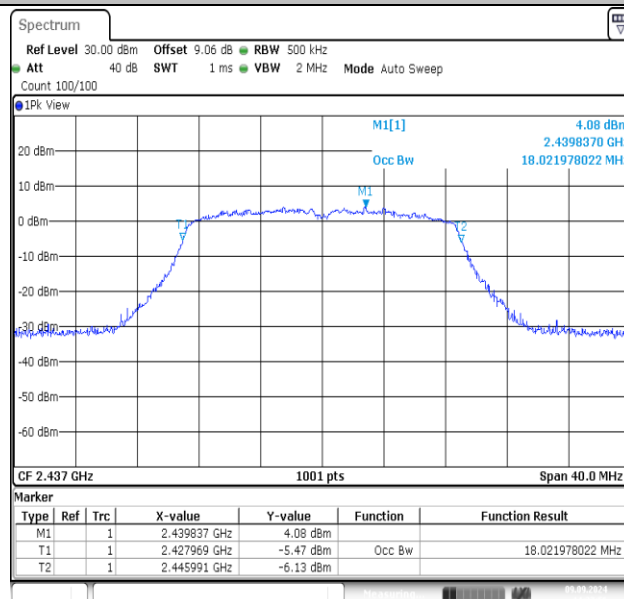
11G-Ant1-2437



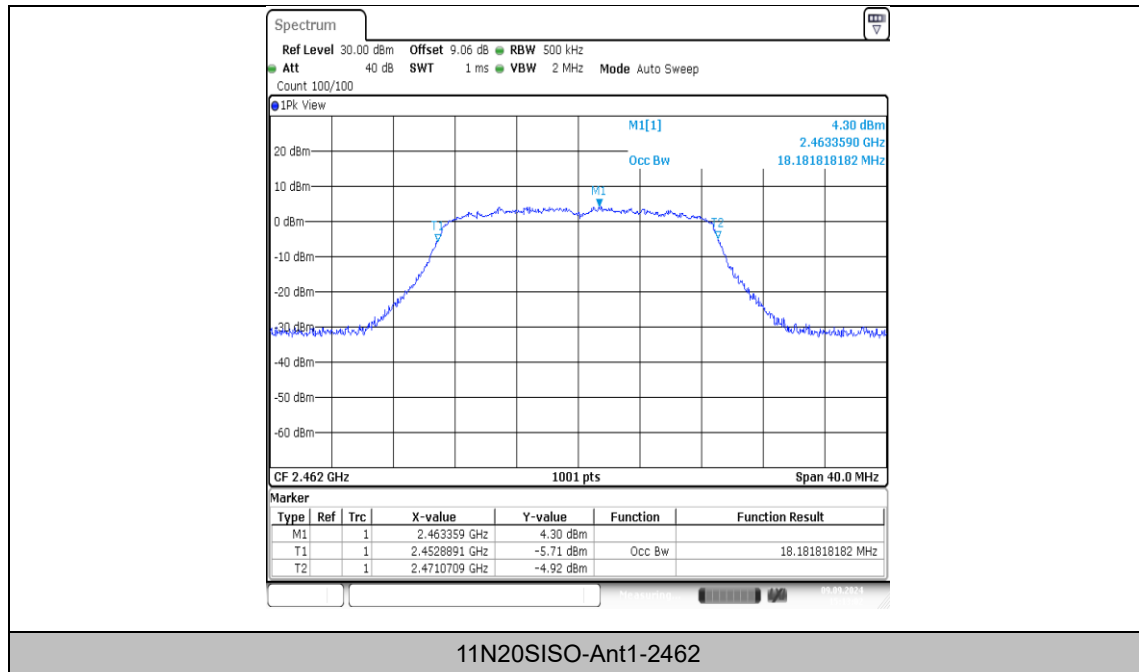
11G-Ant1-2462



11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



Appendix C: Maximum Average conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	2.78	≤30.00	PASS
11B	Ant1	2437	2.07	≤30.00	PASS
11B	Ant1	2462	2.63	≤30.00	PASS
11G	Ant1	2412	2.85	≤30.00	PASS
11G	Ant1	2437	2.38	≤30.00	PASS
11G	Ant1	2462	2.63	≤30.00	PASS
11N20SISO	Ant1	2412	2.64	≤30.00	PASS
11N20SISO	Ant1	2437	1.90	≤30.00	PASS
11N20SISO	Ant1	2462	2.44	≤30.00	PASS

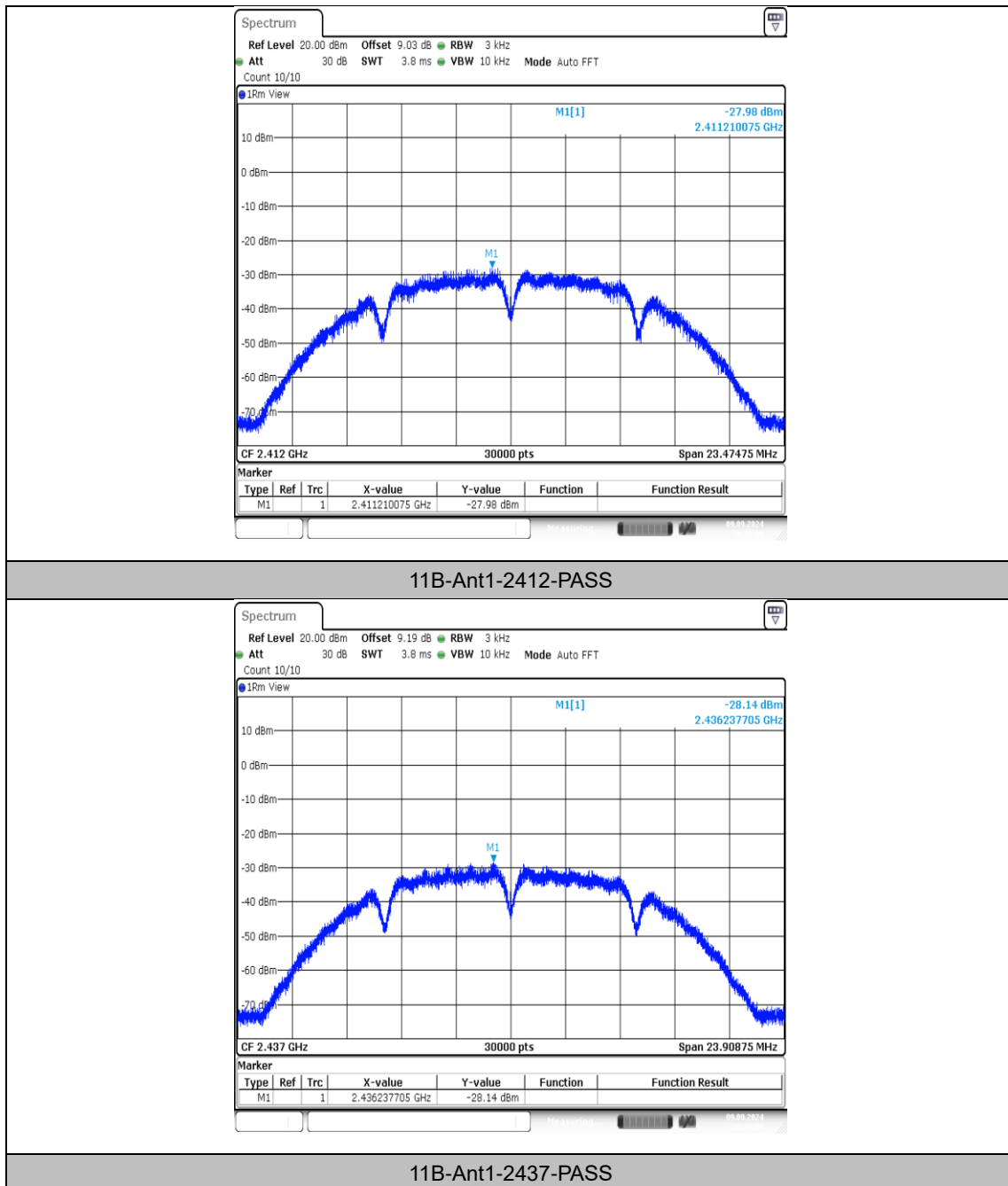
Note: The Duty Cycle Factor is compensated in the result.

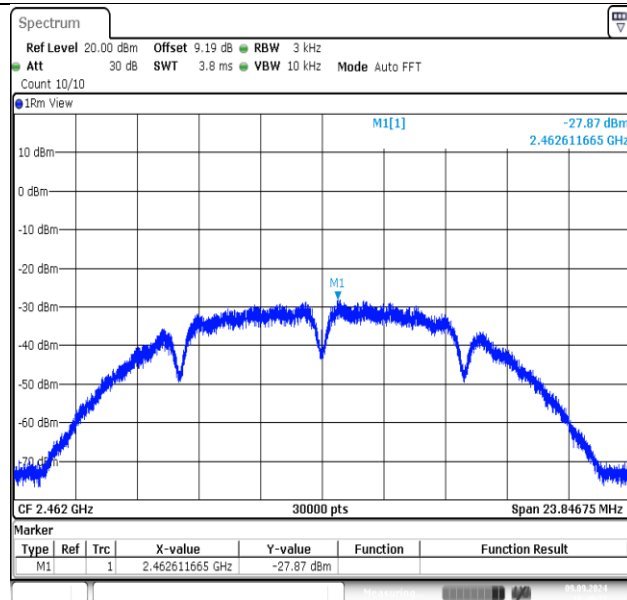
Appendix D: Maximum Average power spectral density

Test Result

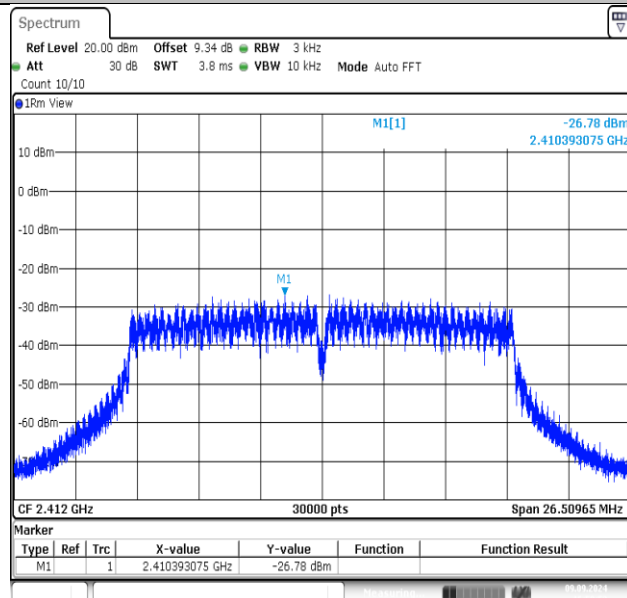
TestMode	Antenna	Frequency[MHz]	RawData[dBm/3-100kHz]	DcFactor	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-28.11	0.13	-27.98	≤8.00	PASS
11B	Ant1	2437	-28.27	0.13	-28.14	≤8.00	PASS
11B	Ant1	2462	-28.00	0.13	-27.87	≤8.00	PASS
11G	Ant1	2412	-27.22	0.44	-26.78	≤8.00	PASS
11G	Ant1	2437	-27.44	0.44	-27.00	≤8.00	PASS
11G	Ant1	2462	-27.55	0.44	-27.11	≤8.00	PASS
11N20SI SO	Ant1	2412	-28.34	0.47	-27.87	≤8.00	PASS
11N20SI SO	Ant1	2437	-28.67	0.47	-28.20	≤8.00	PASS
11N20SI SO	Ant1	2462	-28.57	0.47	-28.10	≤8.00	PASS

Test Graphs

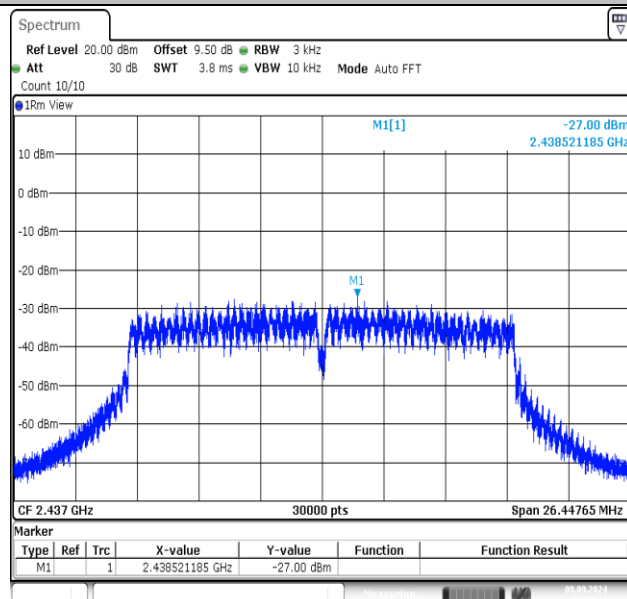




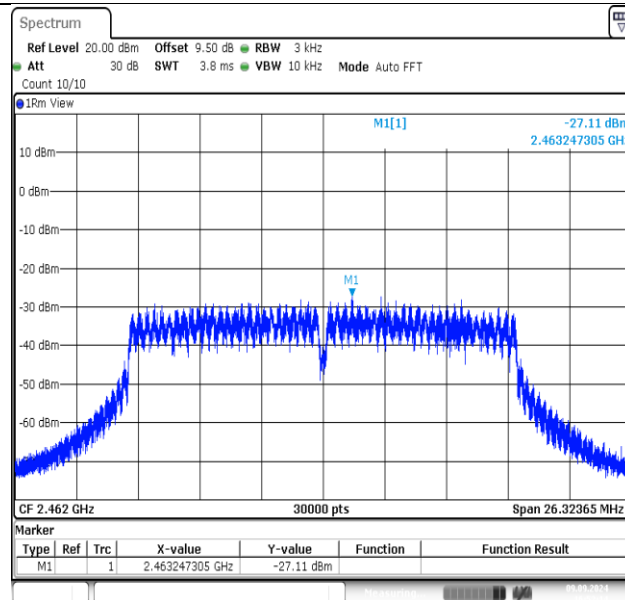
11B-Ant1-2462-PASS



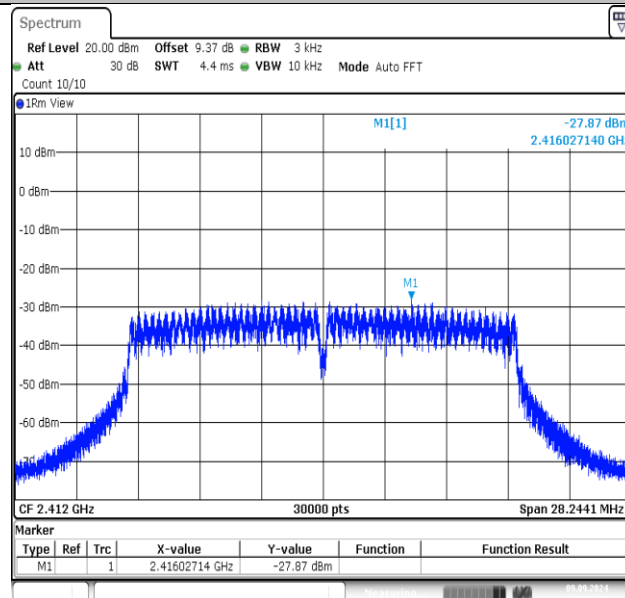
11G-Ant1-2412-PASS



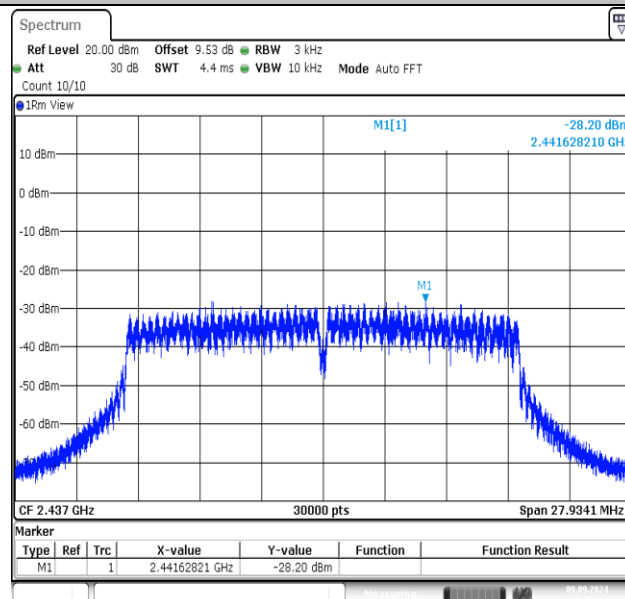
11G-Ant1-2437-PASS



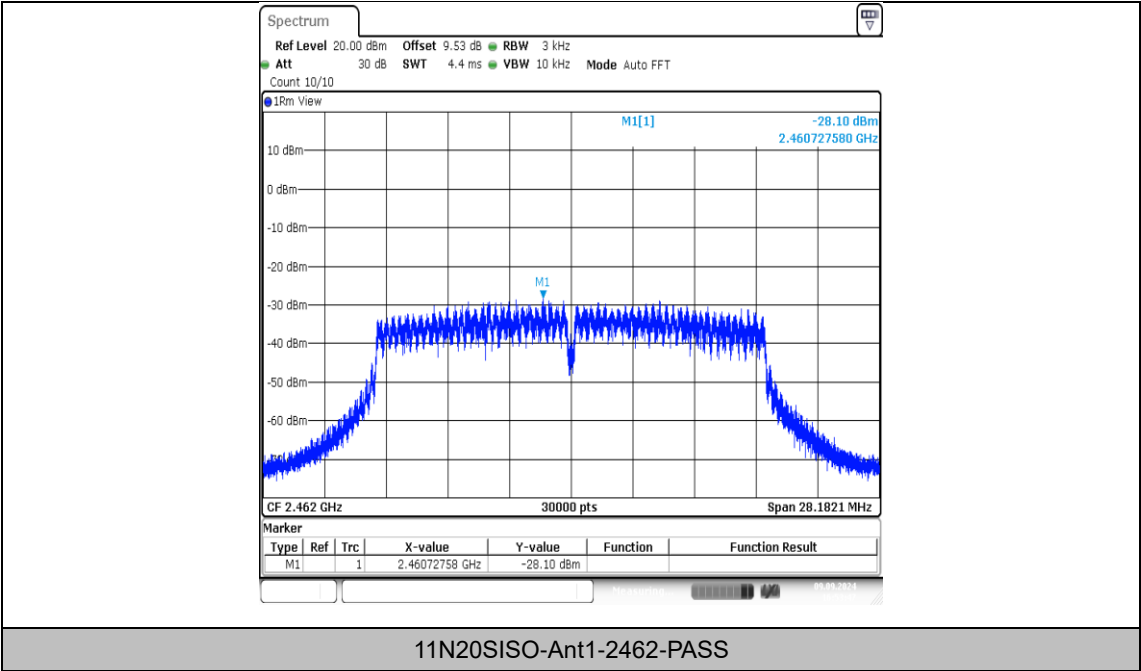
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS

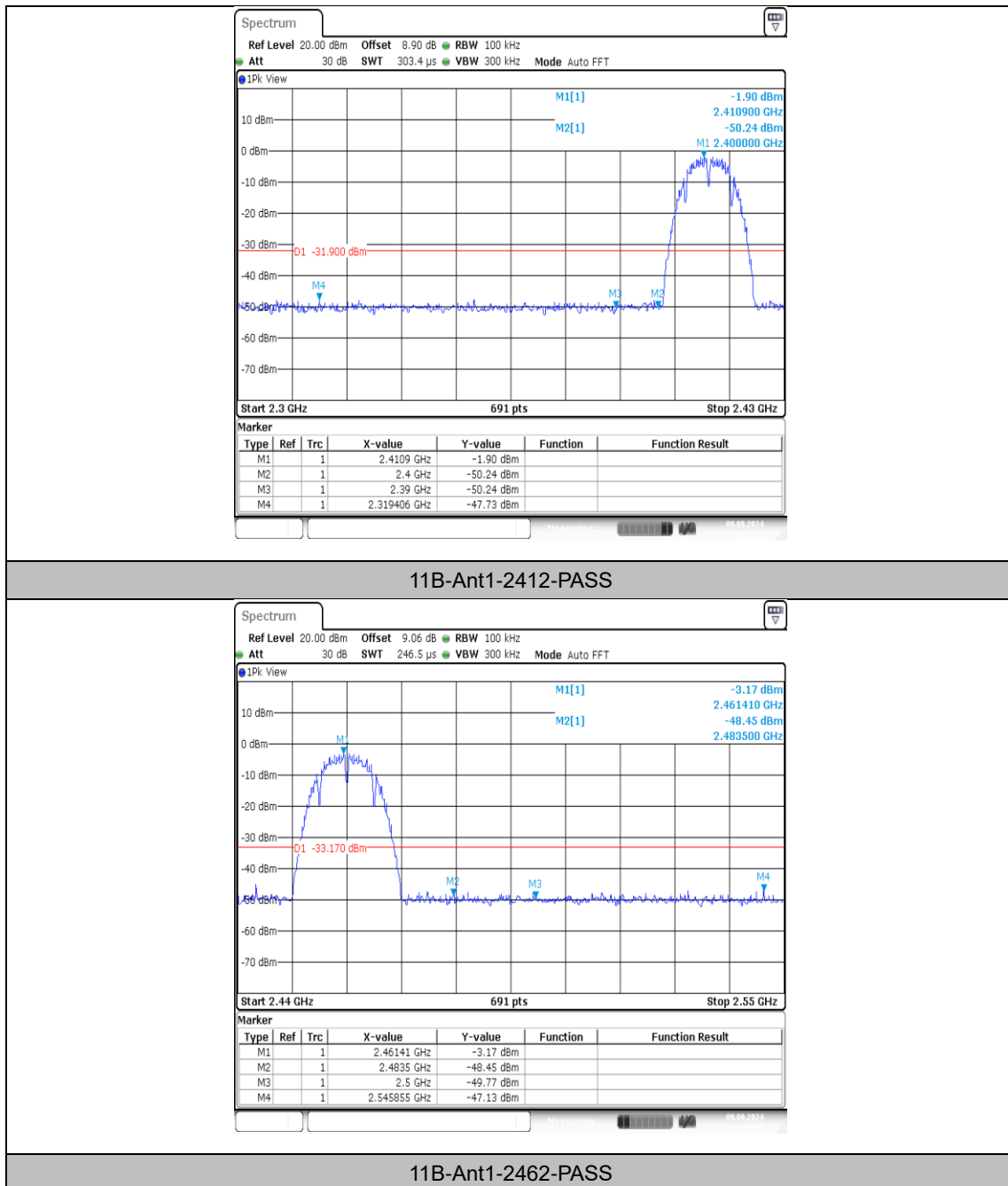


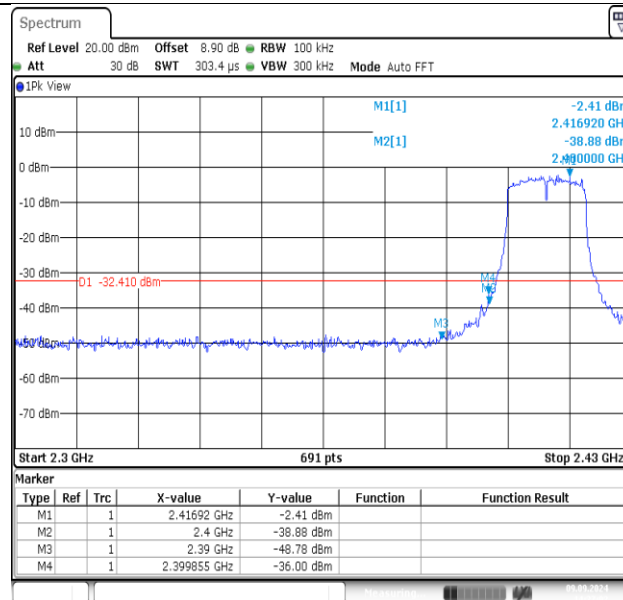
Appendix E: Band edge measurements

Test Result

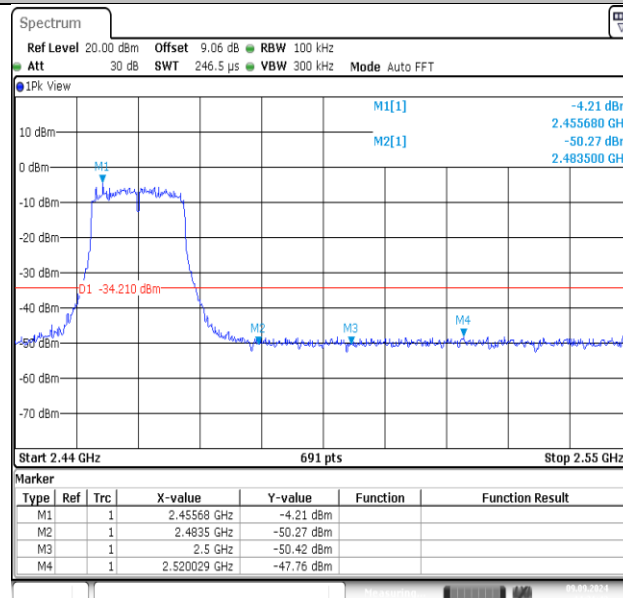
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.90	-47.73	≤-31.9	PASS
11B	Ant1	High	2462	-3.17	-47.13	≤-33.17	PASS
11G	Ant1	Low	2412	-2.41	-36	≤-32.41	PASS
11G	Ant1	High	2462	-4.21	-47.76	≤-34.21	PASS
11N20SISO	Ant1	Low	2412	-3.02	-39.22	≤-33.02	PASS
11N20SISO	Ant1	High	2462	-0.92	-46.84	≤-30.92	PASS

Test Graphs

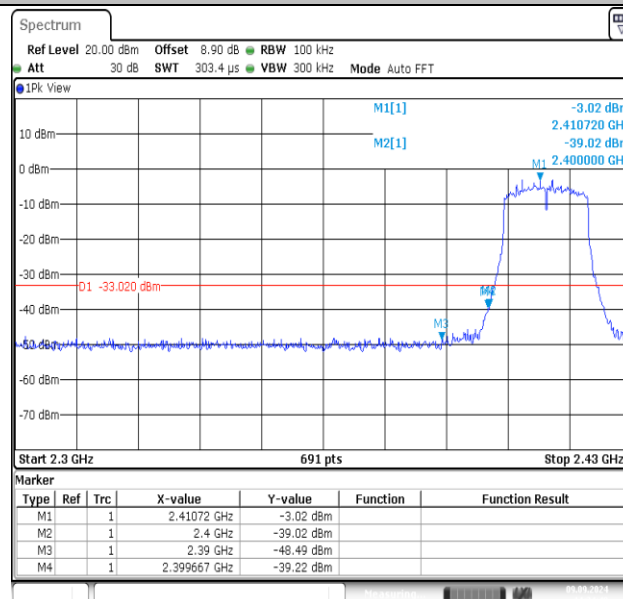




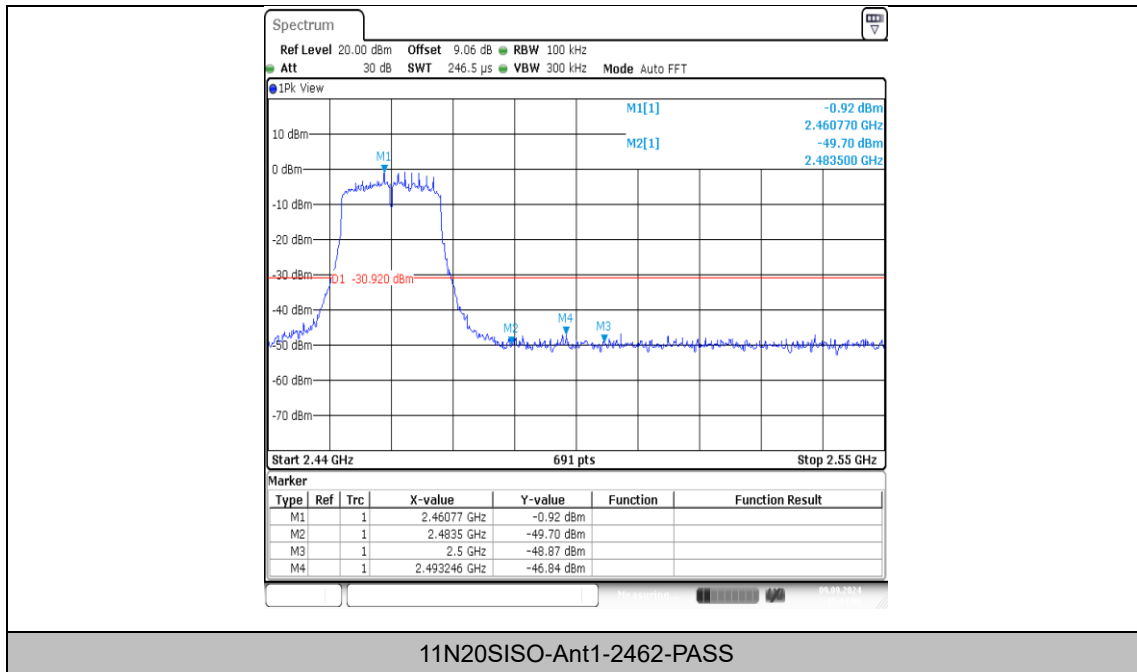
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

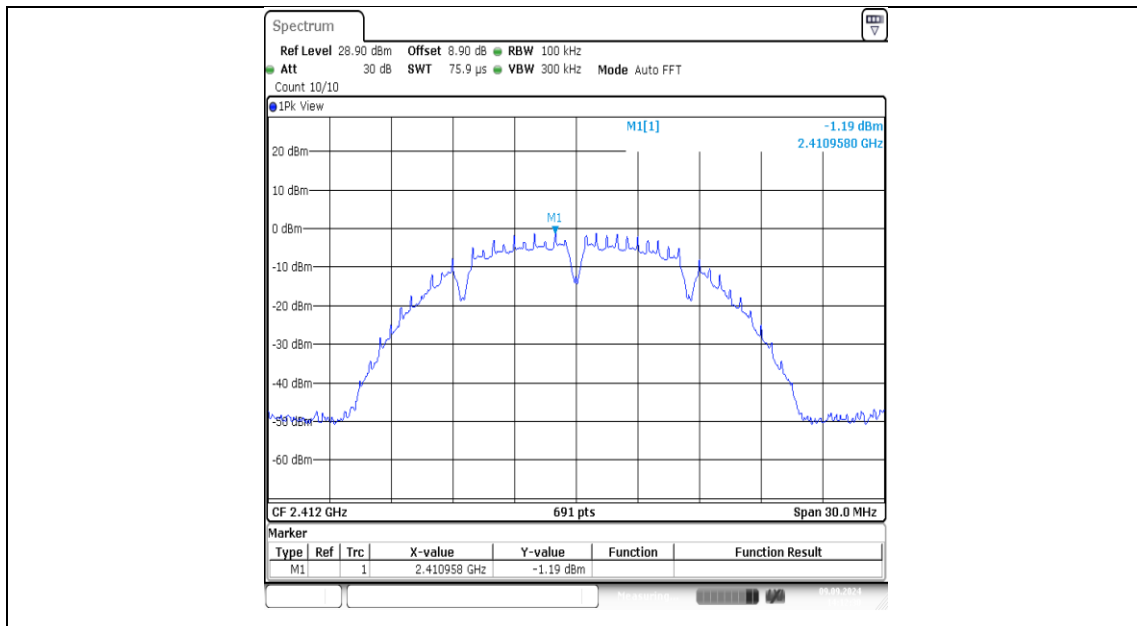


Appendix F: Conducted Spurious Emission

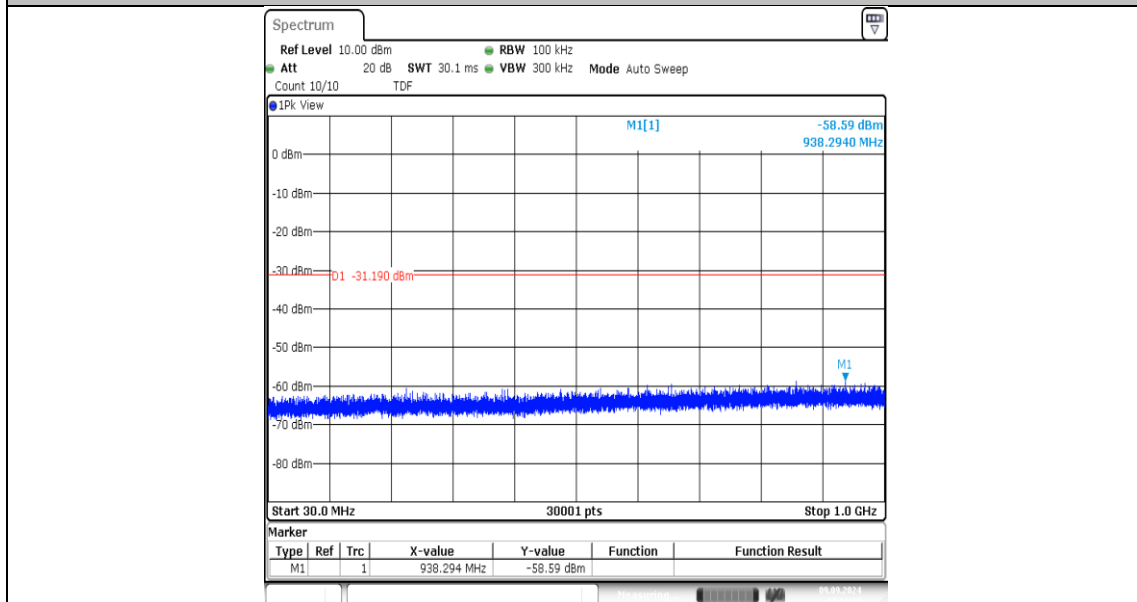
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-1.19	-1.19	---	PASS
11B	Ant1	2412	30~1000	-1.19	-58.59	≤-31.19	PASS
11B	Ant1	2412	1000~26500	-1.19	-50.48	≤-31.19	PASS
11B	Ant1	2437	0~Reference	-3.02	-3.02	---	PASS
11B	Ant1	2437	30~1000	-3.02	-58.98	≤-33.02	PASS
11B	Ant1	2437	1000~26500	-3.02	-50.82	≤-33.02	PASS
11B	Ant1	2462	0~Reference	-2.86	-2.86	---	PASS
11B	Ant1	2462	30~1000	-2.86	-59.27	≤-32.86	PASS
11B	Ant1	2462	1000~26500	-2.86	-48.16	≤-32.86	PASS
11G	Ant1	2412	0~Reference	0.23	0.23	---	PASS
11G	Ant1	2412	30~1000	0.23	-58.33	≤-29.77	PASS
11G	Ant1	2412	1000~26500	0.23	-49.68	≤-29.77	PASS
11G	Ant1	2437	0~Reference	-2.87	-2.87	---	PASS
11G	Ant1	2437	30~1000	-2.87	-58.47	≤-32.87	PASS
11G	Ant1	2437	1000~26500	-2.87	-49.88	≤-32.87	PASS
11G	Ant1	2462	0~Reference	-2.96	-2.96	---	PASS
11G	Ant1	2462	30~1000	-2.96	-58.03	≤-32.96	PASS
11G	Ant1	2462	1000~26500	-2.96	-49.51	≤-32.96	PASS
11N20SISO	Ant1	2412	0~Reference	-1.54	-1.54	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.54	-57.93	≤-31.54	PASS
11N20SISO	Ant1	2412	1000~26500	-1.54	-49.98	≤-31.54	PASS
11N20SISO	Ant1	2437	0~Reference	-0.63	-0.63	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.63	-59.17	≤-30.63	PASS
11N20SISO	Ant1	2437	1000~26500	-0.63	-50.14	≤-30.63	PASS
11N20SISO	Ant1	2462	0~Reference	-0.19	-0.19	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.19	-59.12	≤-30.19	PASS
11N20SISO	Ant1	2462	1000~26500	-0.19	-50.32	≤-30.19	PASS

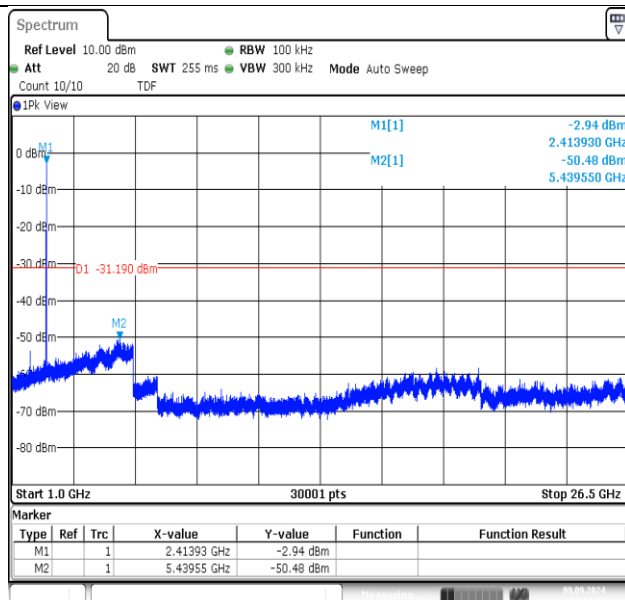
Test Graphs



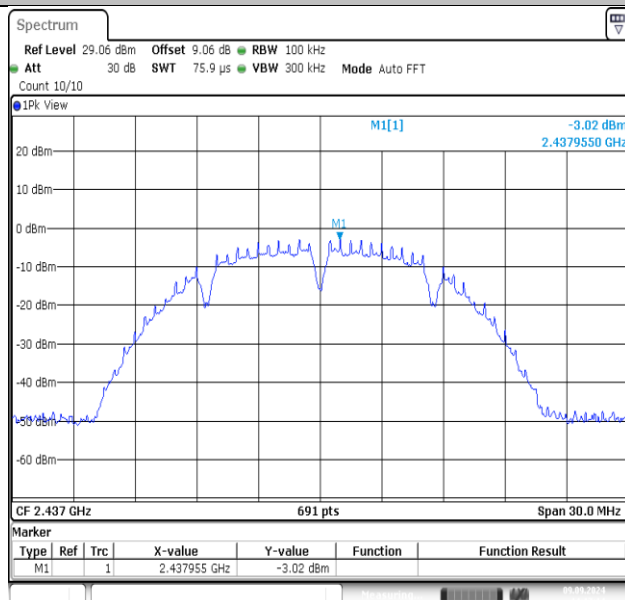
11B-Ant1-2412-0~Reference-PASS



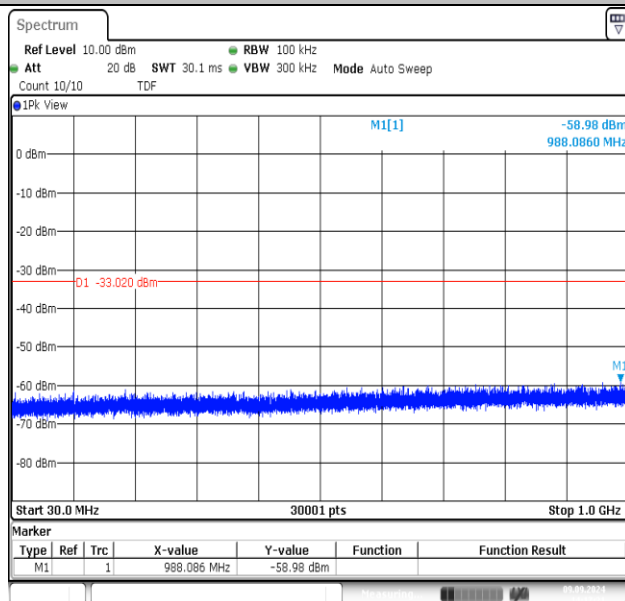
11B-Ant1-2412-30~1000-PASS



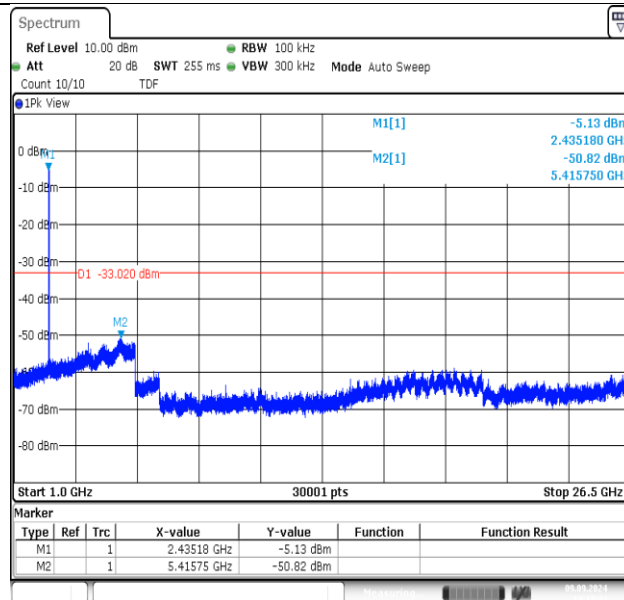
11B-Ant1-2412-1000~26500-PASS



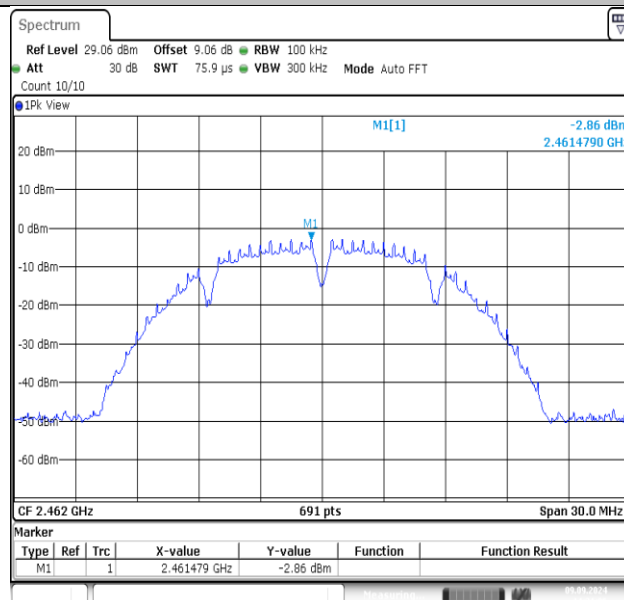
11B-Ant1-2437-0~Reference-PASS



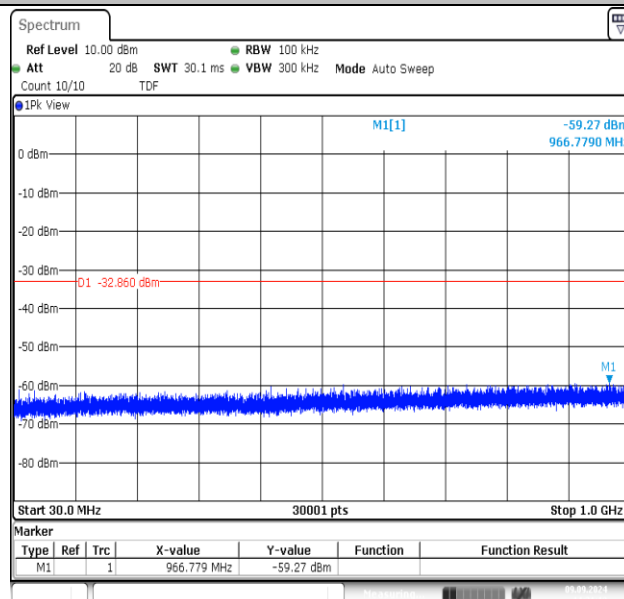
11B-Ant1-2437-30~1000-PASS



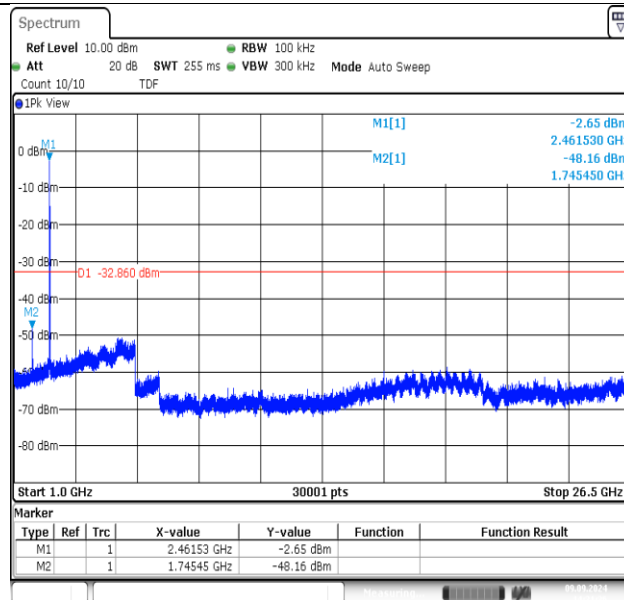
11B-Ant1-2437-1000~26500-PASS



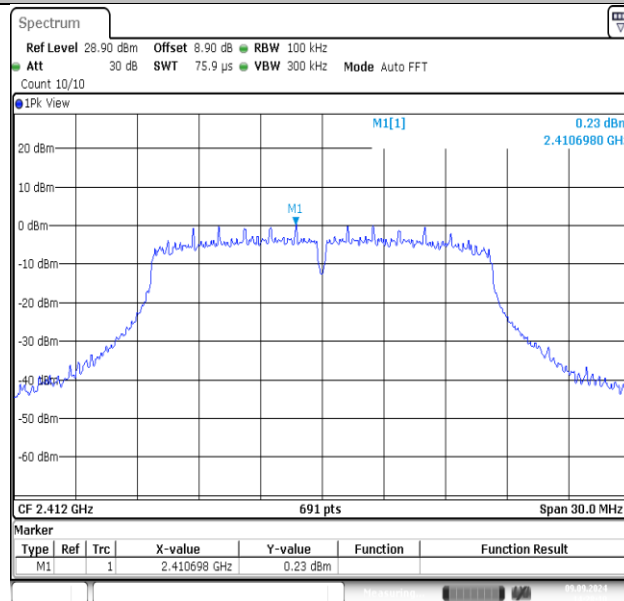
11B-Ant1-2462-0~Reference-PASS



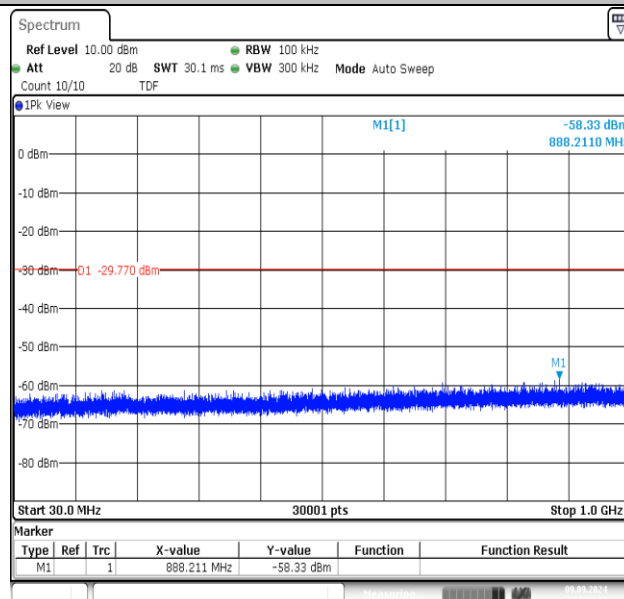
11B-Ant1-2462-30~1000-PASS



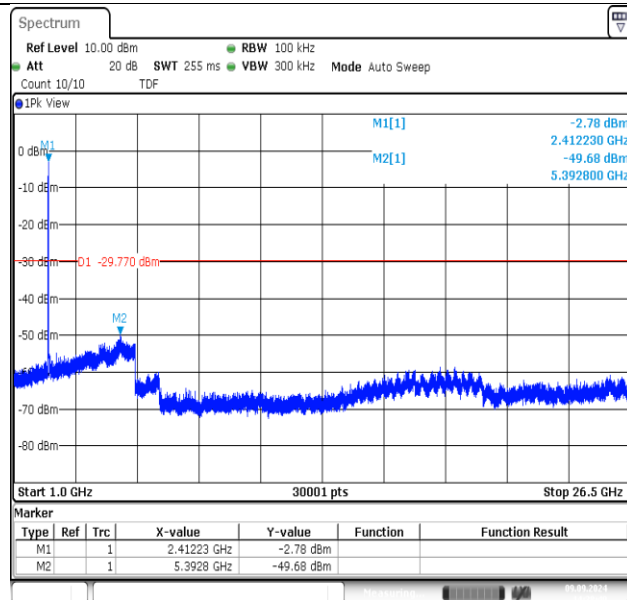
11B-Ant1-2462-1000~26500-PASS



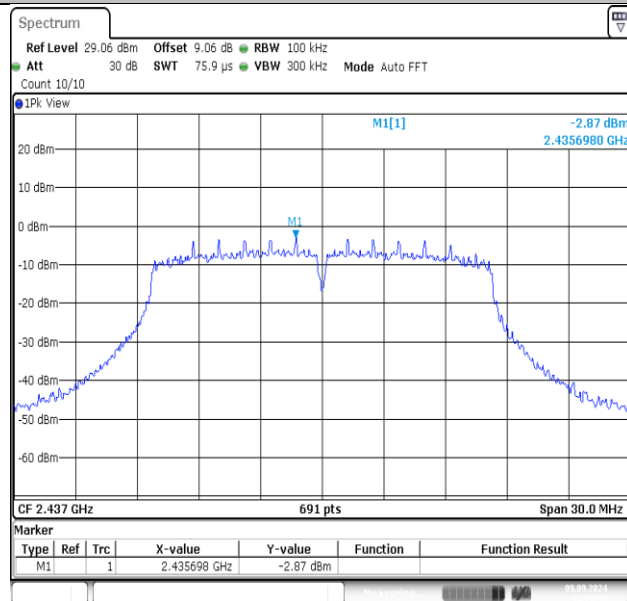
11G-Ant1-2412-0~Reference-PASS



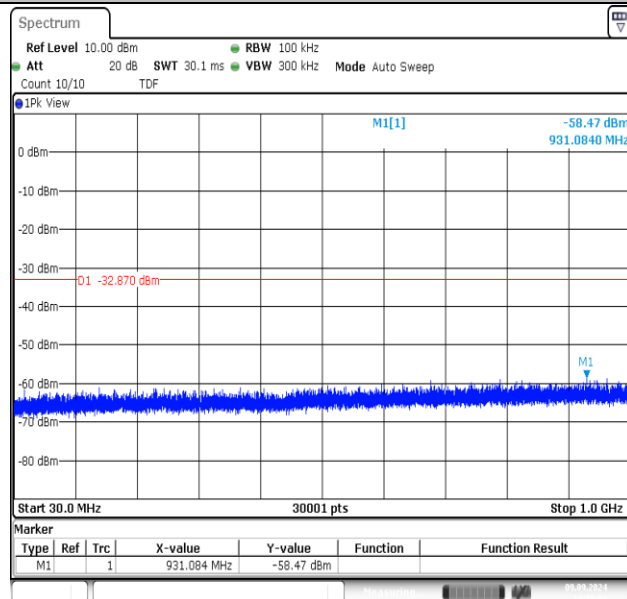
11G-Ant1-2412-30~1000-PASS



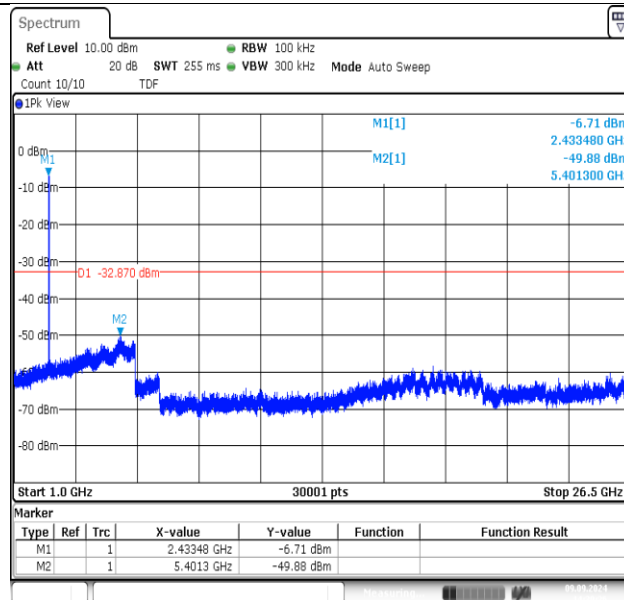
11G-Ant1-2412-1000~26500-PASS



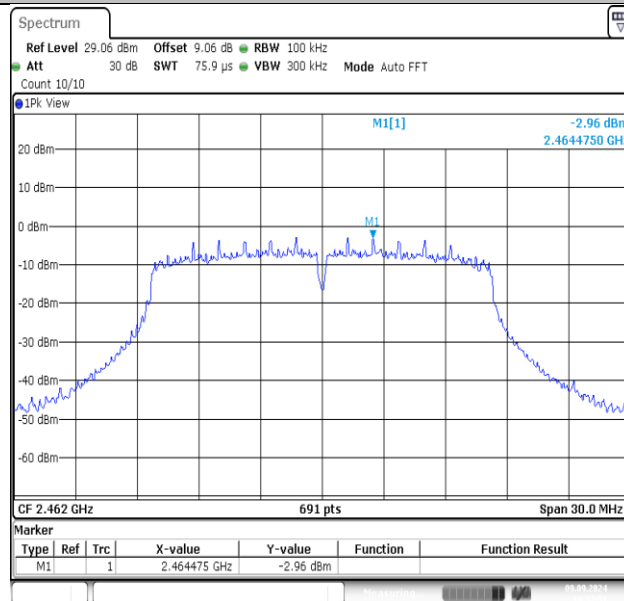
11G-Ant1-2437-0~Reference-PASS



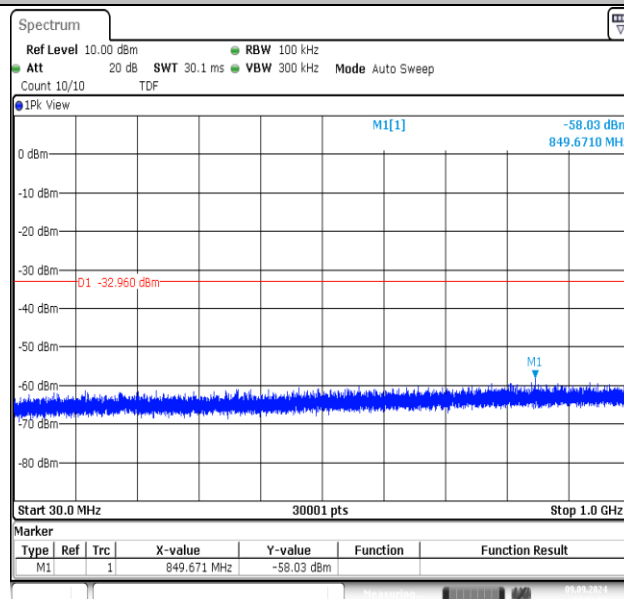
11G-Ant1-2437-30~1000-PASS



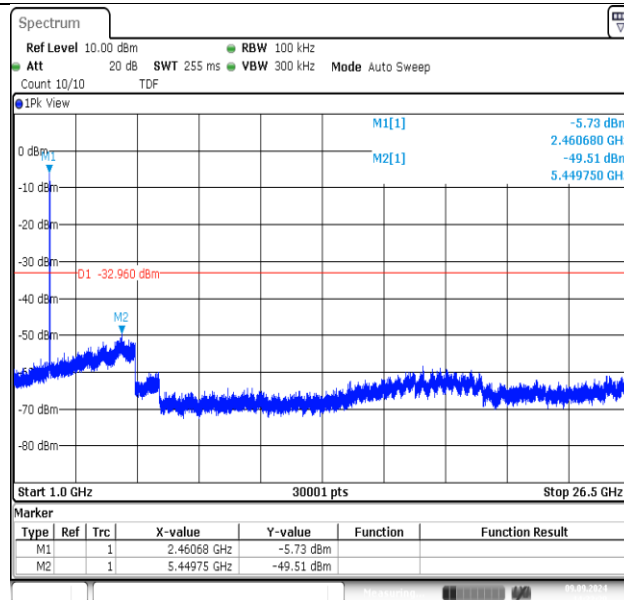
11G-Ant1-2437-1000~26500-PASS



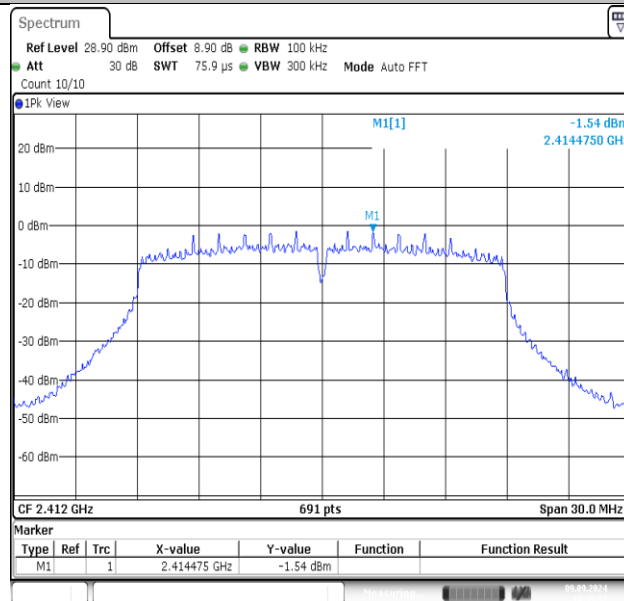
11G-Ant1-2462-0~Reference-PASS



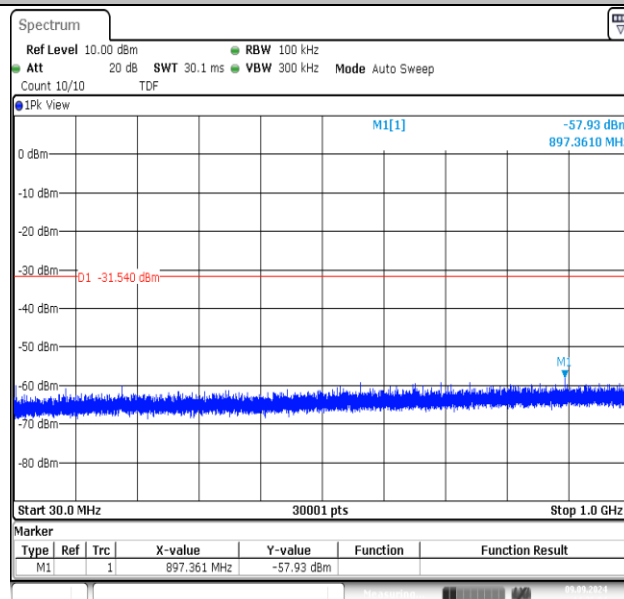
11G-Ant1-2462-30~1000-PASS



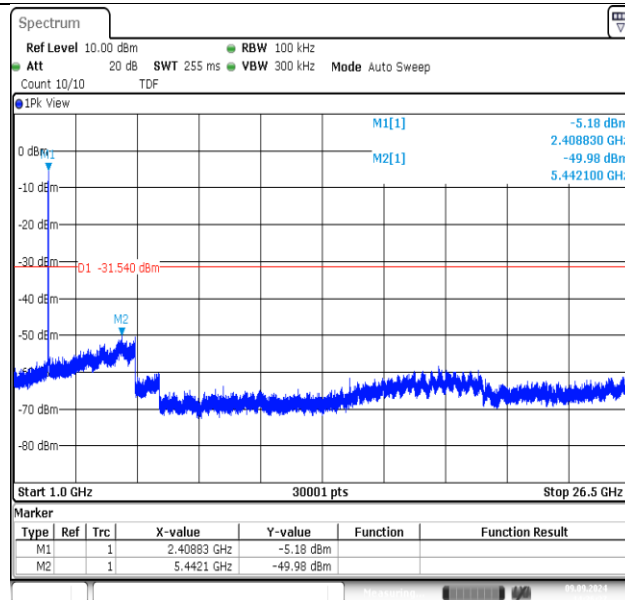
11G-Ant1-2462-1000~26500-PASS



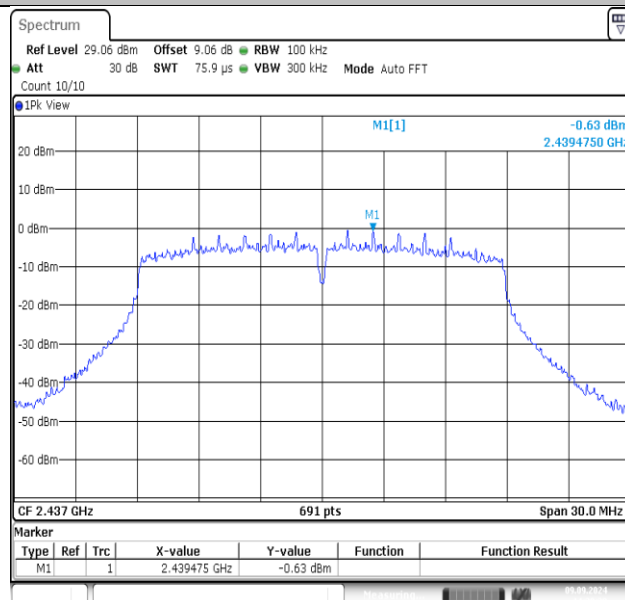
11N20SISO-Ant1-2412-0~Reference-PASS



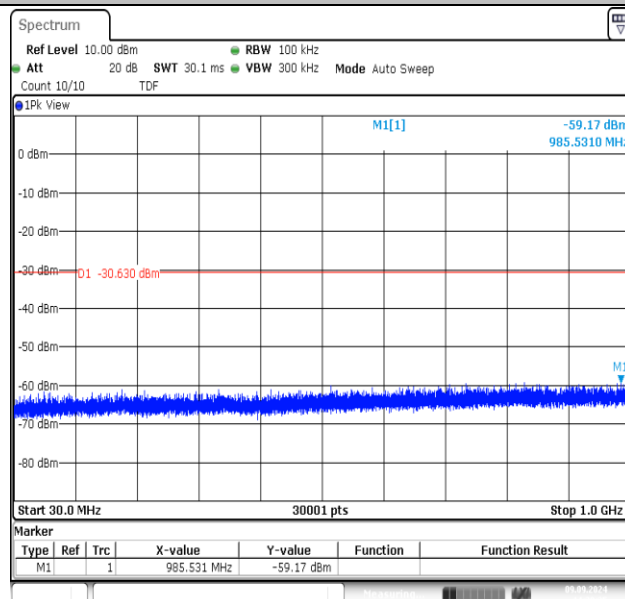
11N20SISO-Ant1-2412-30~1000-PASS



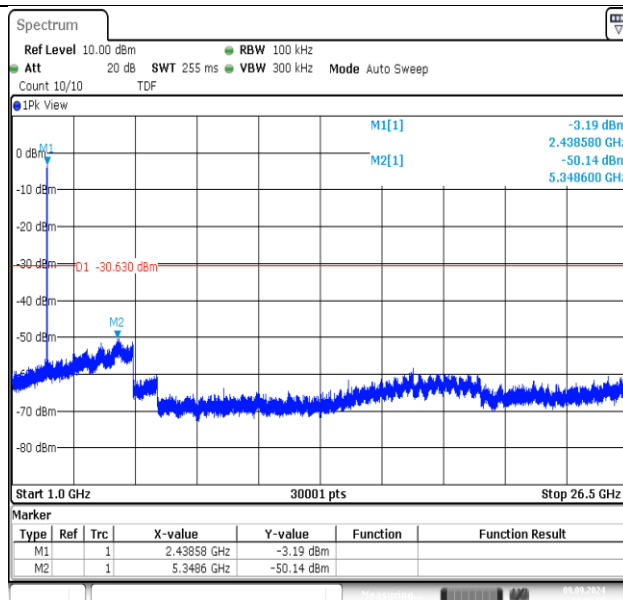
11N20SISO-Ant1-2412-1000~26500-PASS



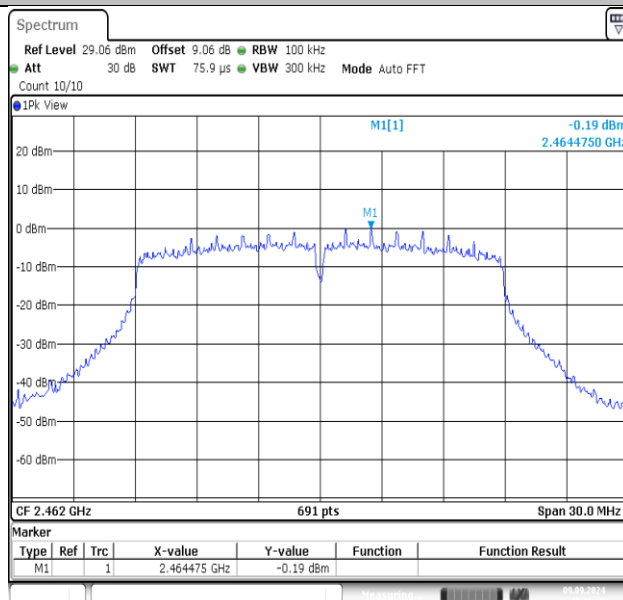
11N20SISO-Ant1-2437-0~Reference-PASS



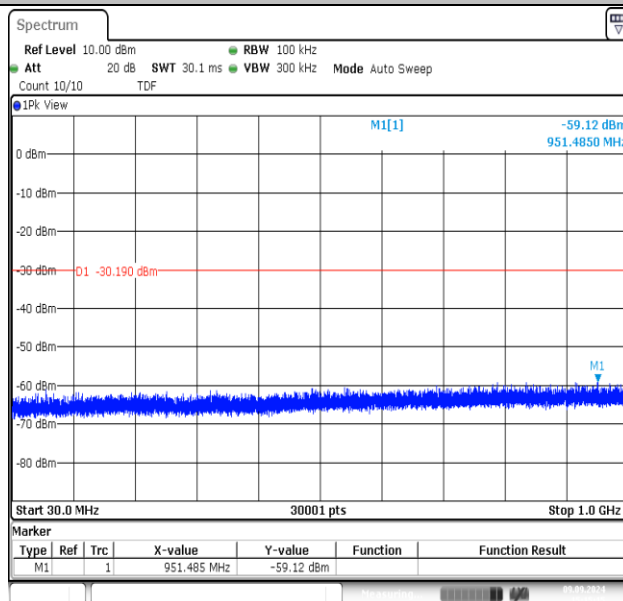
11N20SISO-Ant1-2437-30~1000-PASS



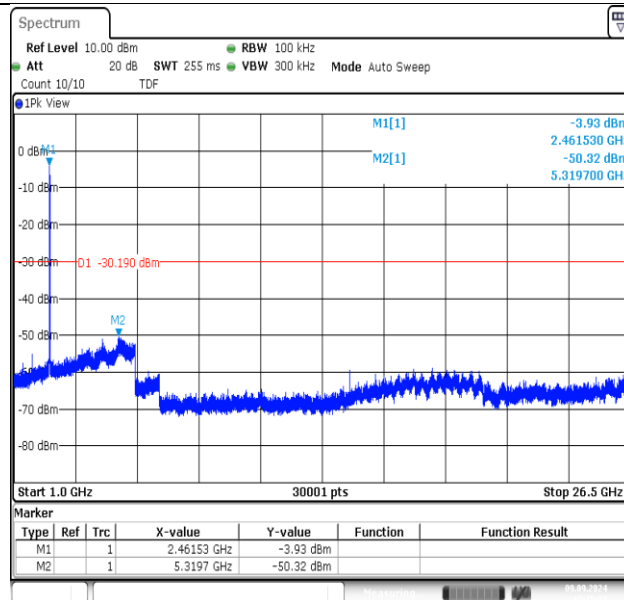
11N20SISO-Ant1-2437-1000~26500-PASS



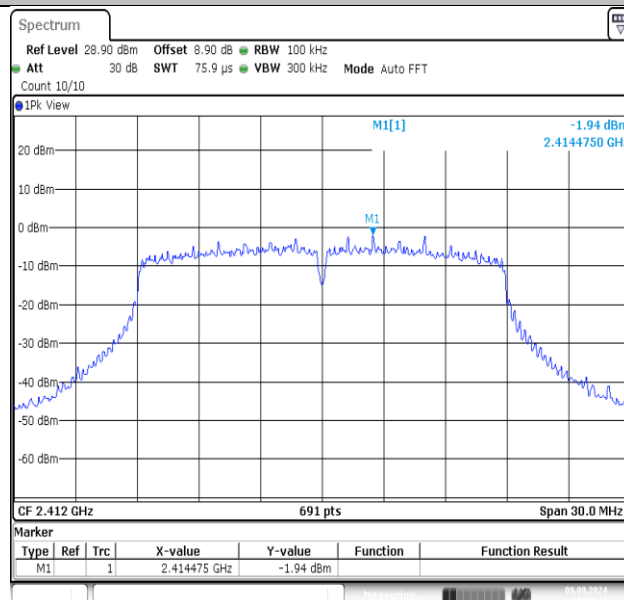
11N20SISO-Ant1-2462-0~Reference-PASS



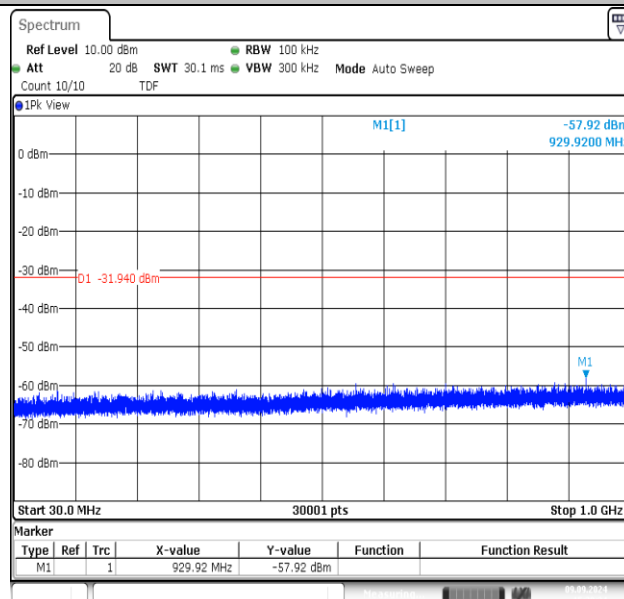
11N20SISO-Ant1-2462-30~1000-PASS



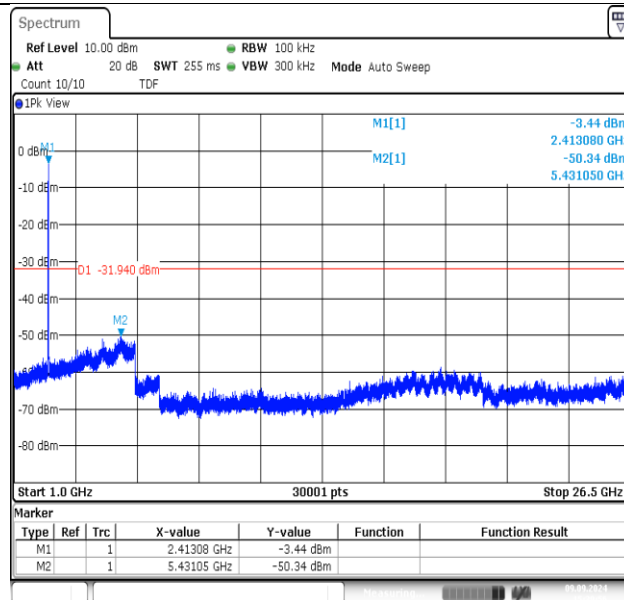
11N20SISO-Ant1-2462-1000~26500-PASS



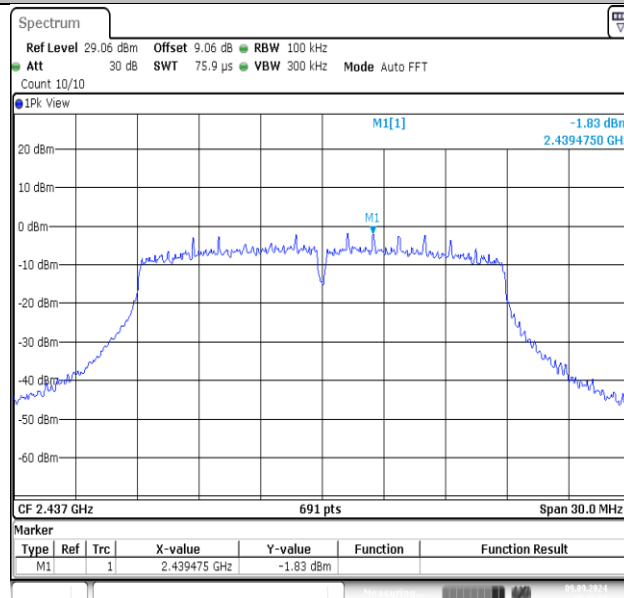
11AX20SISO-Ant1-2412-0~Reference-PASS



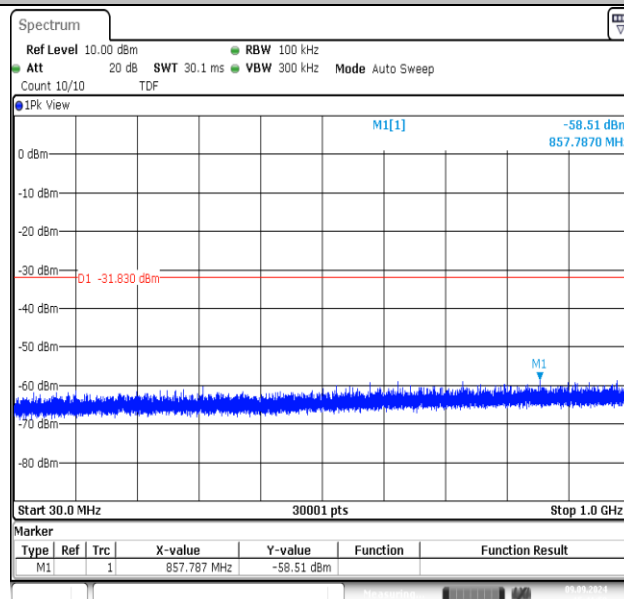
11AX20SISO-Ant1-2412-30~1000-PASS



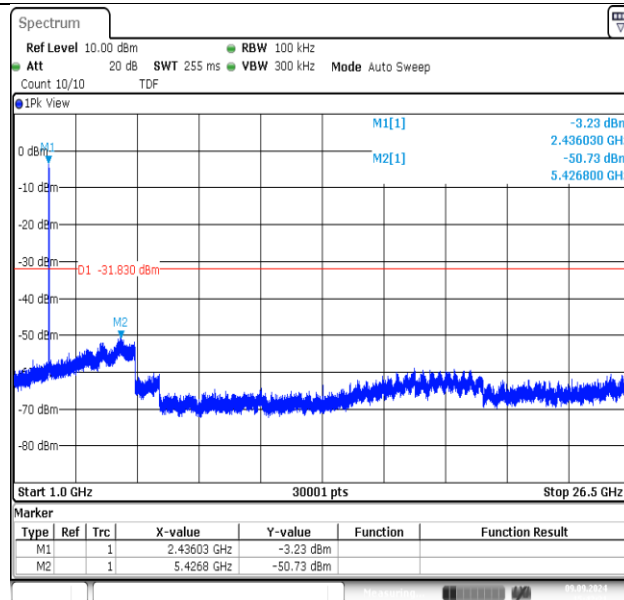
11AX20SISO-Ant1-2412-1000~26500-PASS



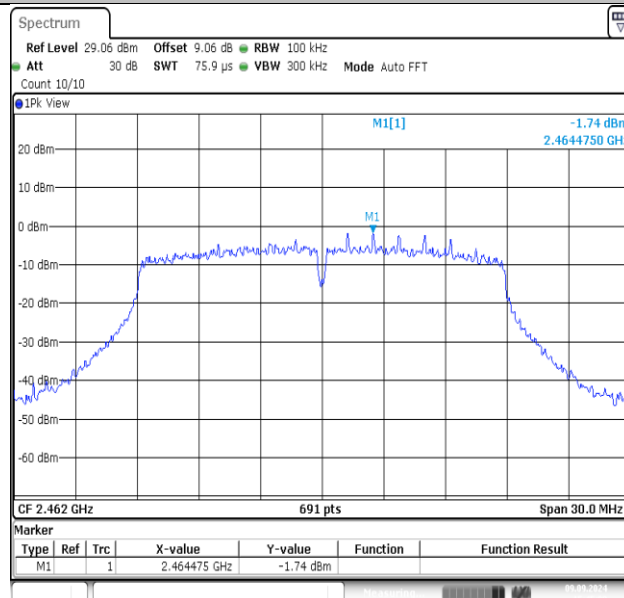
11AX20SISO-Ant1-2437-0~Reference-PASS



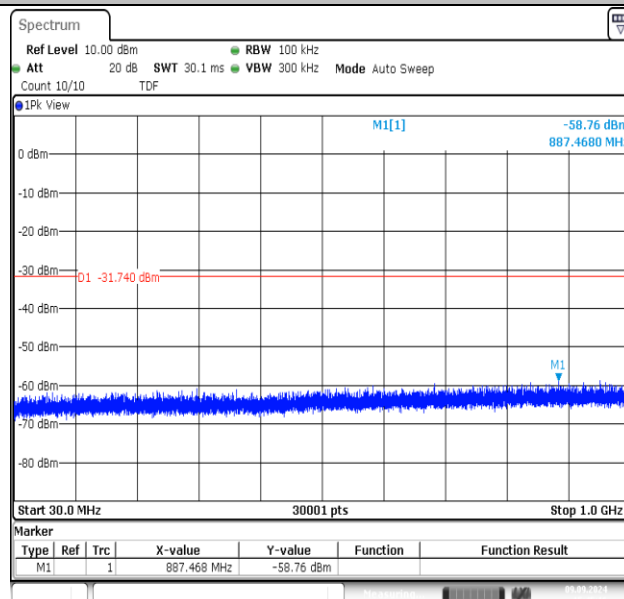
11AX20SISO-Ant1-2437-30~1000-PASS



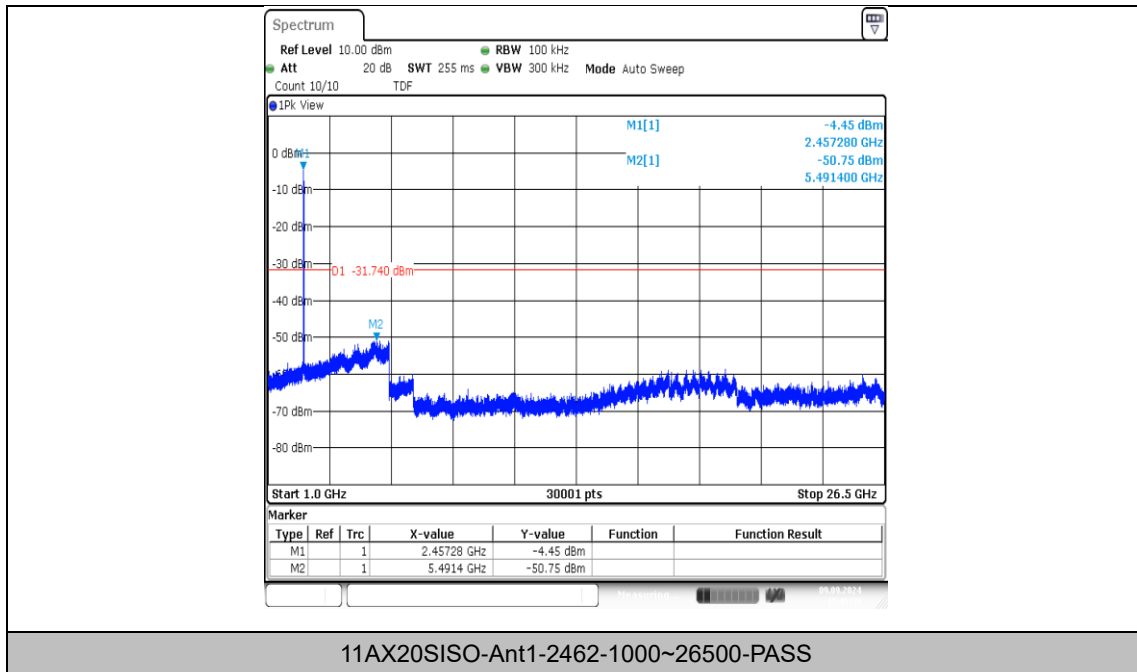
11AX20SISO-Ant1-2437-1000~26500-PASS



11AX20SISO-Ant1-2462-0~Reference-PASS



11AX20SISO-Ant1-2462-30~1000-PASS

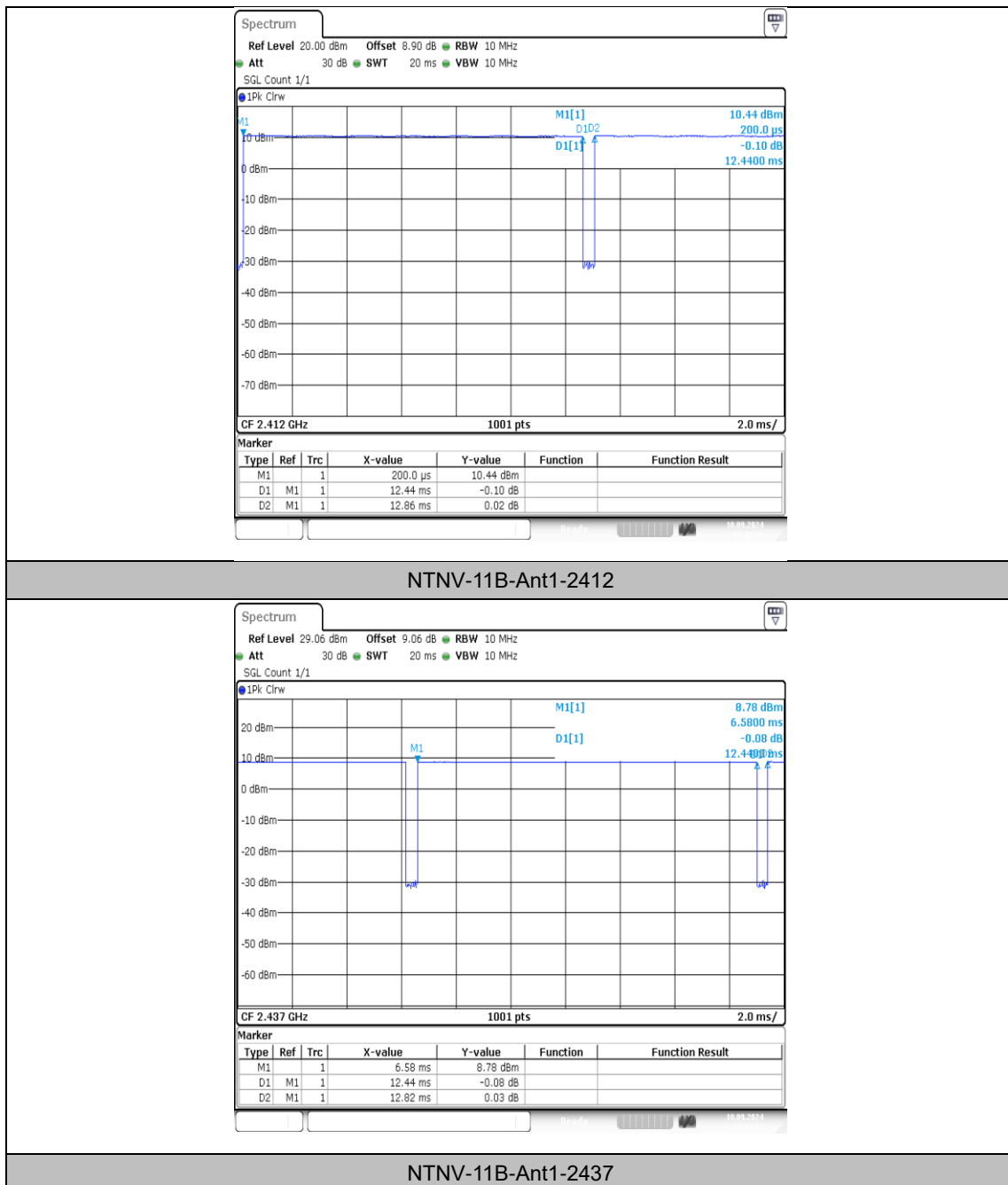


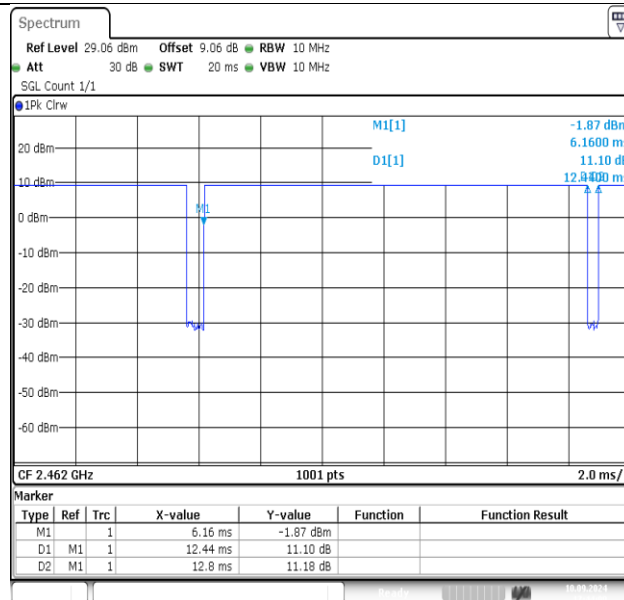
Appendix G: Duty Cycle

Test Result

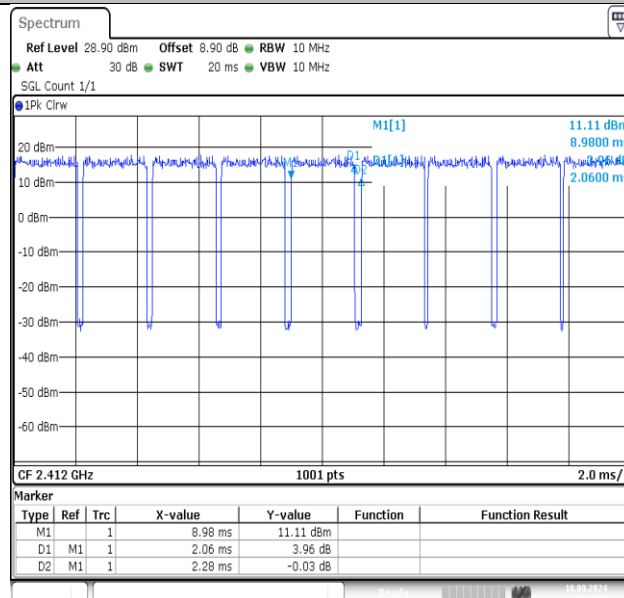
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.44	12.86	96.73	0.14
11B	Ant1	2437	12.44	12.82	97.04	0.13
11B	Ant1	2462	12.44	12.80	97.19	0.12
11G	Ant1	2412	2.06	2.28	90.35	0.44
11G	Ant1	2437	2.06	2.28	90.35	0.44
11G	Ant1	2462	2.08	2.28	91.23	0.40
11N20SISO	Ant1	2412	1.92	2.14	89.72	0.47
11N20SISO	Ant1	2437	1.92	2.12	90.57	0.43
11N20SISO	Ant1	2462	1.92	2.14	89.72	0.47

Test Graphs

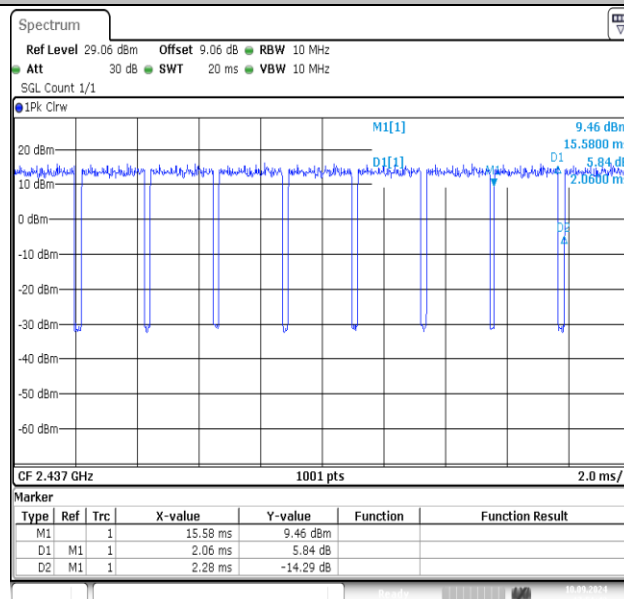




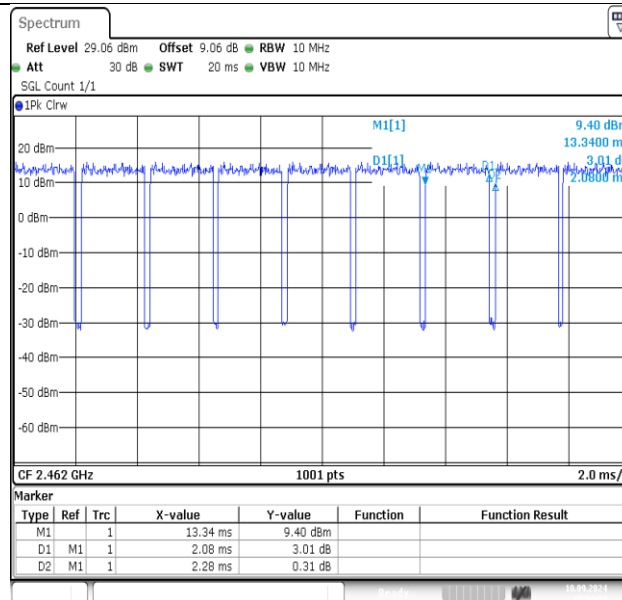
NTNV-11B-Ant1-2462



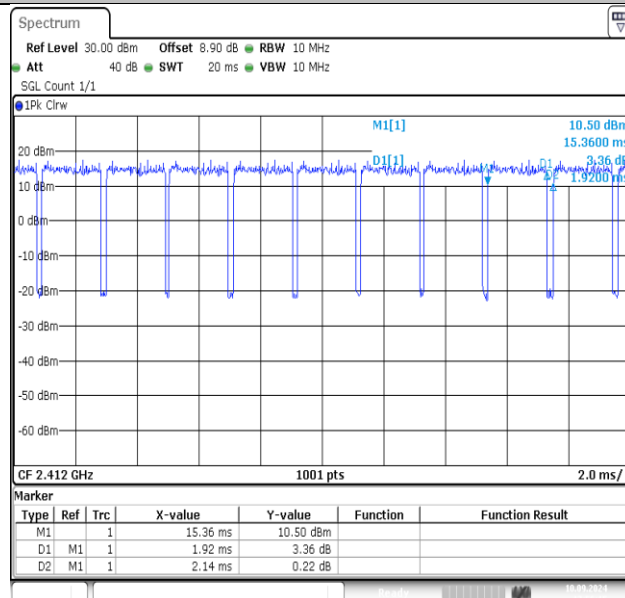
NTNV-11G-Ant1-2412



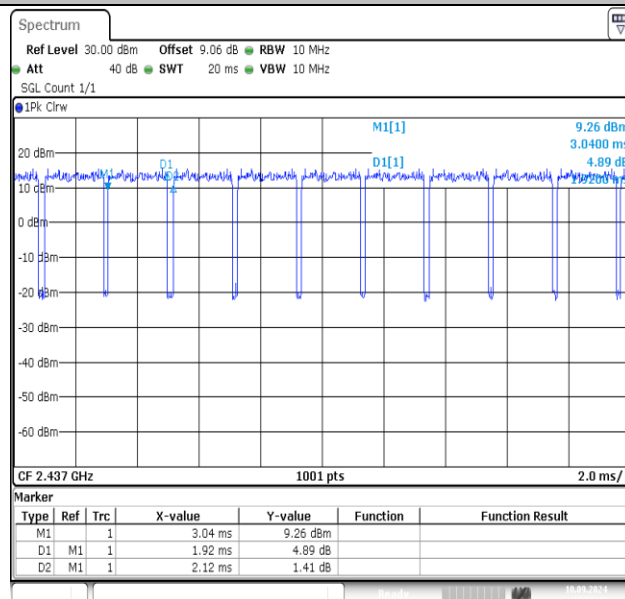
NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462



NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437

