Appendix: 2.4G

Contents

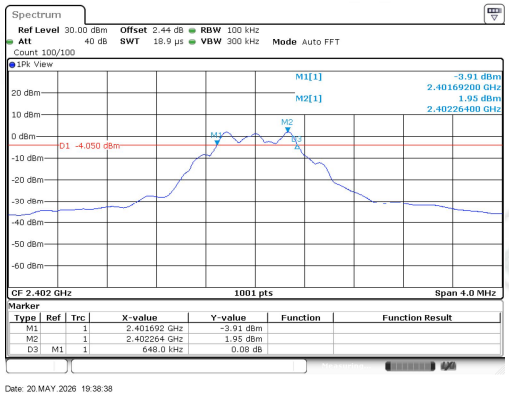
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Appendix A: DTS Bandwidth

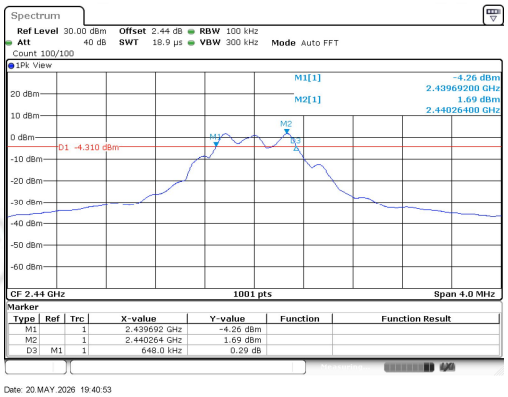
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2402	0.65	2401.69	2402.34	0.5	PASS
GFSK	Ant1	2440	0.65	2439.69	2440.34	0.5	PASS
GFSK	Ant1	2479	0.65	2478.69	2479.34	0.5	PASS

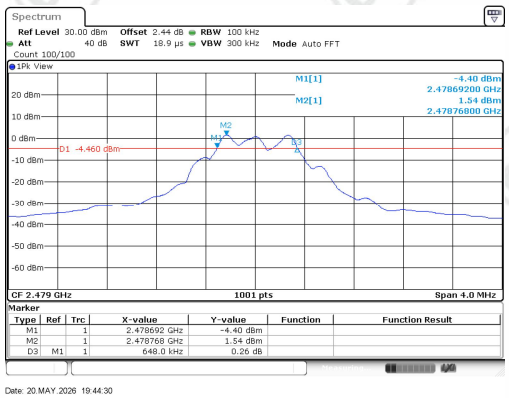
Test Graphs



GFSK-Ant1-2402-PASS



GFSK-Ant1-2440-PASS



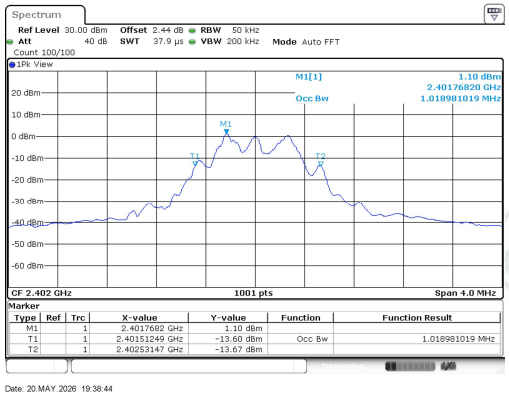
GFSK-Ant1-2479-PASS

Appendix B: Occupied Channel Bandwidth

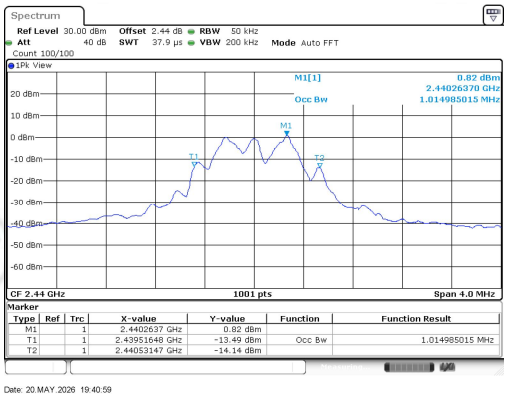
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2402	1.0190	2401.5125	2402.5315	---	---
GFSK	Ant1	2440	1.0150	2439.5165	2440.5315	---	---
GFSK	Ant1	2479	1.0150	2478.5165	2479.5315	---	---

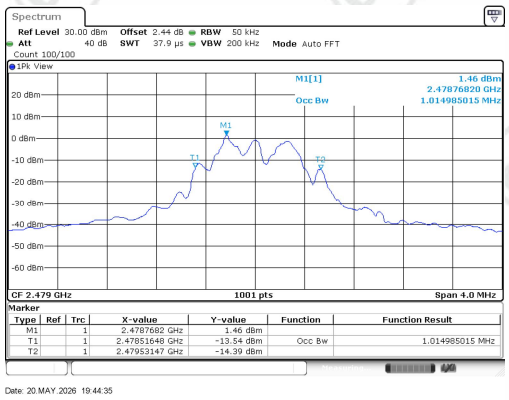
Test Graphs



GFSK-Ant1-2402



GFSK-Ant1-2440



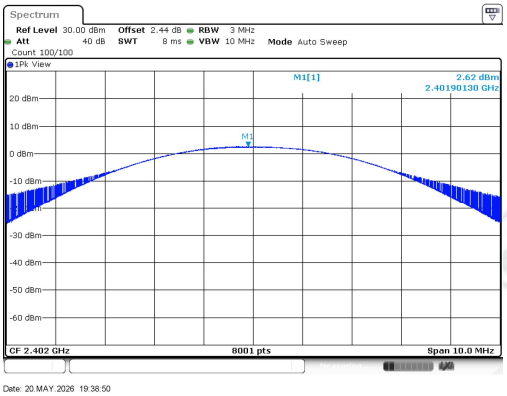
GFSK-Ant1-2479

Appendix C: Maximum conducted output power

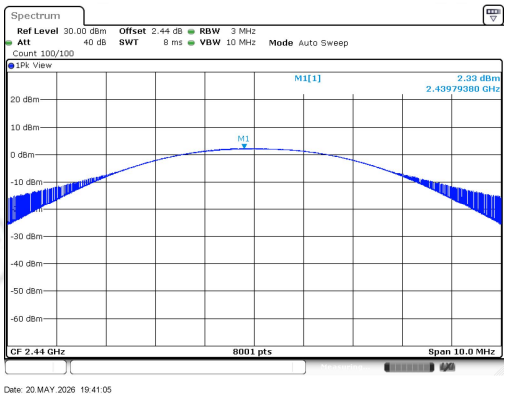
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
GFSK	Ant1	2402	2.62	≤30	4.20	≤36	PASS
GFSK	Ant1	2440	2.33	≤30	3.91	≤36	PASS
GFSK	Ant1	2479	2.15	≤30	3.73	≤36	PASS

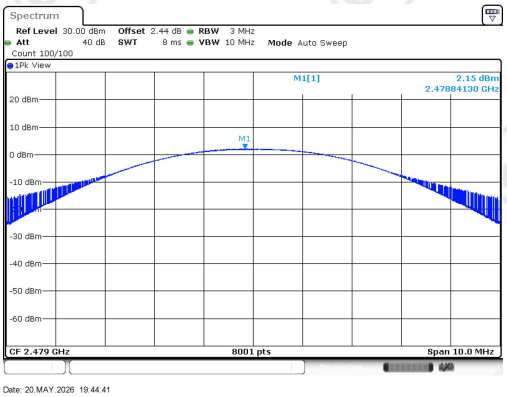
Test Graphs Peak



GFSK-Ant1-2402-PASS



GFSK-Ant1-2440-PASS



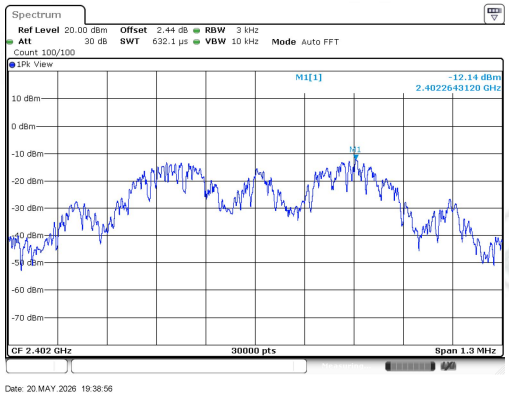
GFSK-Ant1-2479-PASS

Appendix D: Maximum power spectral density

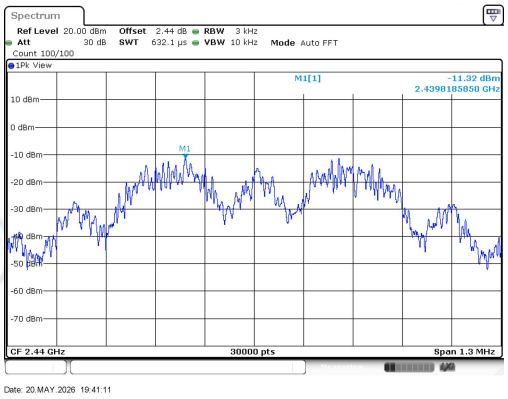
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
GFSK	Ant1	2402	-12.14	≤8.00	PASS
GFSK	Ant1	2440	-11.32	≤8.00	PASS
GFSK	Ant1	2479	-12.24	≤8.00	PASS

Test Graphs



GFSK-Ant1-2402-PASS



GFSK-Ant1-2440-PASS



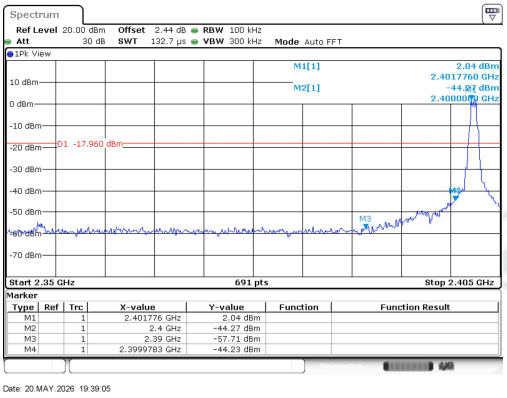
GFSK-Ant1-2479-PASS

Appendix E: Band edge measurements

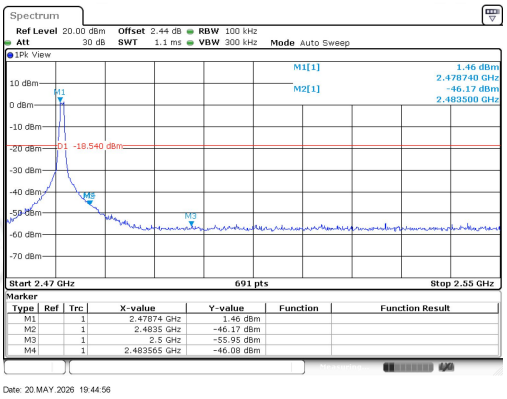
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
GFSK	Ant1	Low	2402	2.04	-44.23	≤-17.96	PASS
GFSK	Ant1	High	2479	1.46	-46.08	≤-18.54	PASS

Test Graphs



GFSK-Ant1-2402-PASS



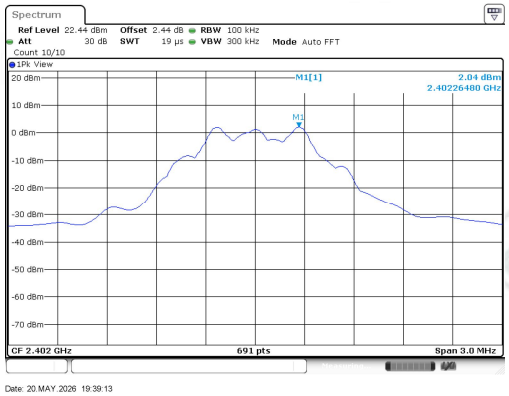
GFSK-Ant1-2479-PASS

Appendix F: Conducted Spurious Emission

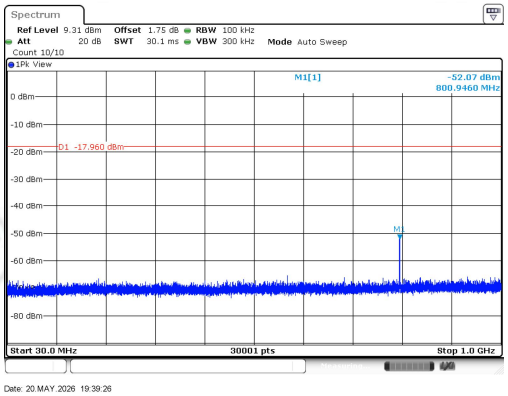
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
GFSK	Ant1	2402	0~Reference	2.04	2.04	---	PASS
GFSK	Ant1	2402	30~1000	2.04	-52.07	≤-17.96	PASS
GFSK	Ant1	2402	1000~26500	2.04	-31.5	≤-17.96	PASS
GFSK	Ant1	2440	0~Reference	1.82	1.82	---	PASS
GFSK	Ant1	2440	30~1000	1.82	-51.38	≤-18.18	PASS
GFSK	Ant1	2440	1000~26500	1.82	-31.91	≤-18.18	PASS
GFSK	Ant1	2479	0~Reference	1.55	1.55	---	PASS
GFSK	Ant1	2479	30~1000	1.55	-51.46	≤-18.45	PASS
GFSK	Ant1	2479	1000~26500	1.55	-30.43	≤-18.45	PASS

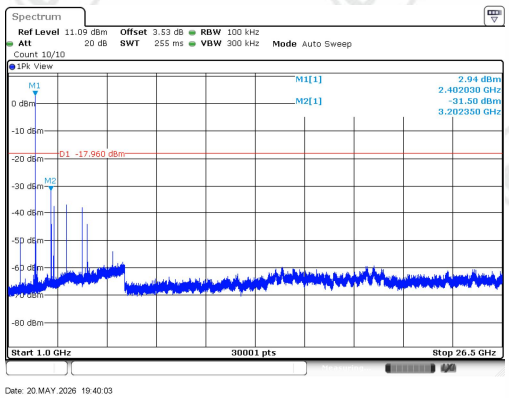
Test Graphs



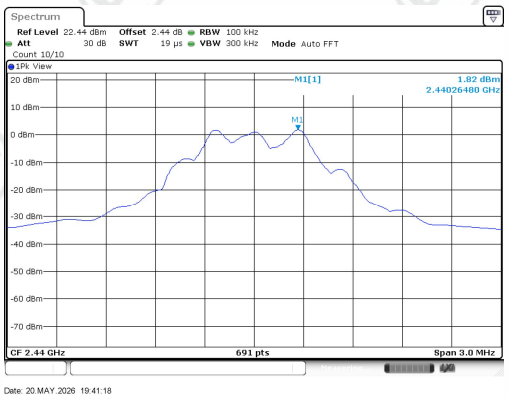
GFSK-Ant1-2402-0~Reference-PASS



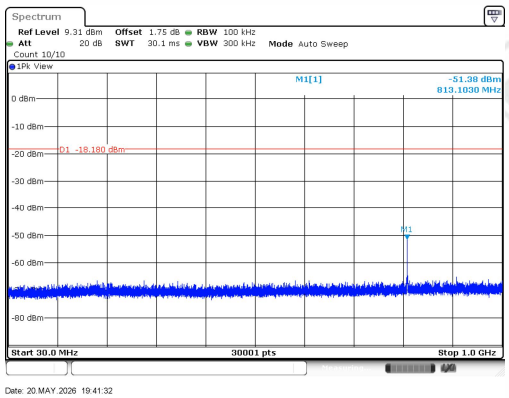
GFSK-Ant1-2402-30~1000-PASS



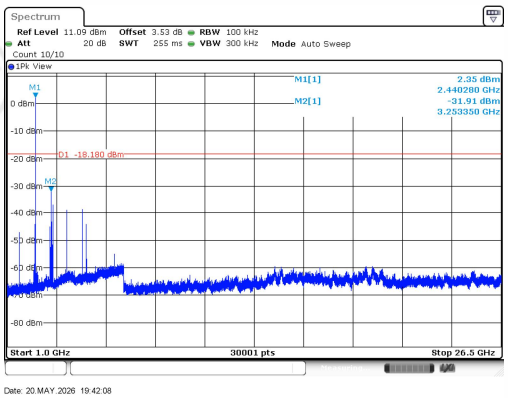
GFSK-Ant1-2402-1000~26500-PASS



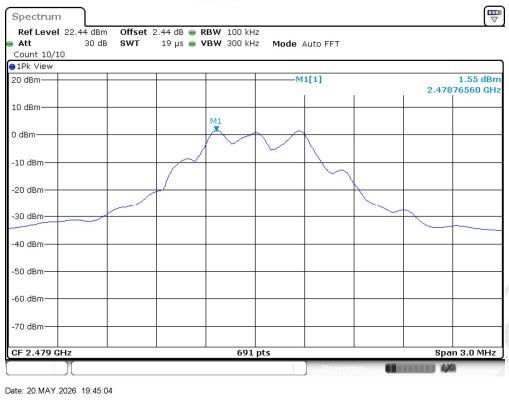
GFSK-Ant1-2440-0~Reference-PASS



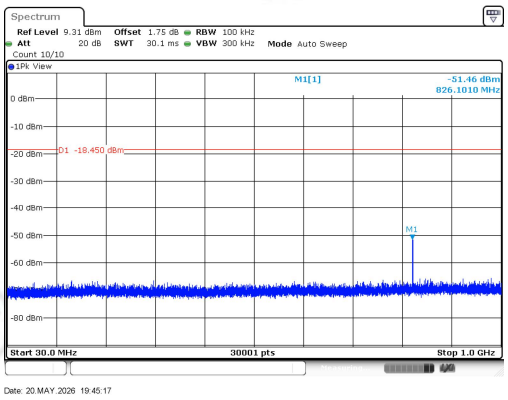
GFSK-Ant1-2440-30~1000-PASS



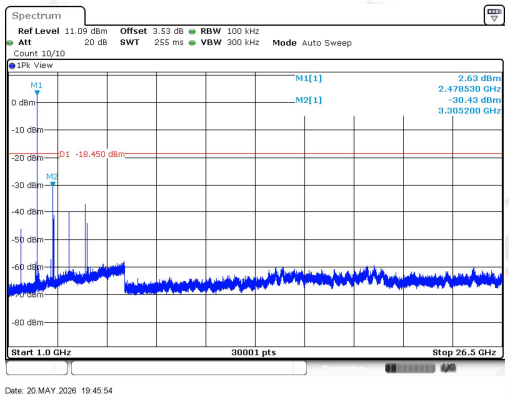
GFSK-Ant1-2440-1000~26500-PASS



GFSK-Ant1-2479-0~Reference-PASS



GFSK-Ant1-2479-30~1000-PASS



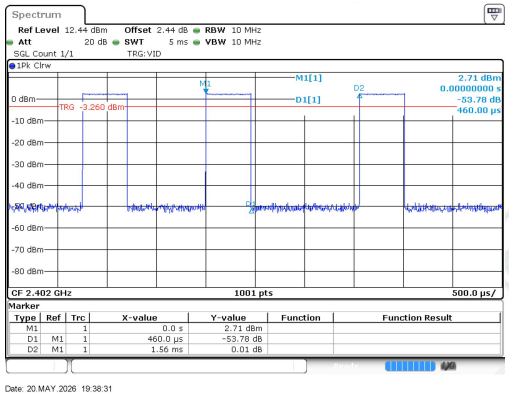
GFSK-Ant1-2479-1000~26500-PASS

Appendix G: Duty Cycle

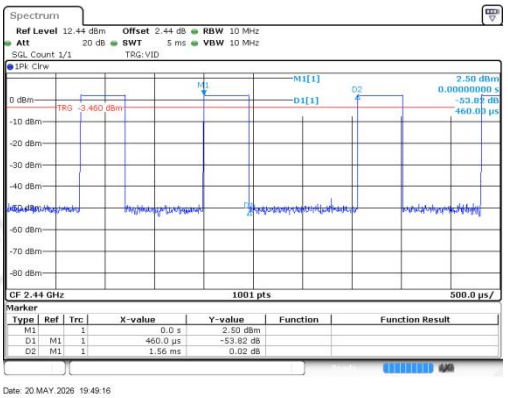
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
GFSK	Ant1	2402	0.46	1.56	29.49	5.30
GFSK	Ant1	2440	0.46	1.56	29.49	5.30
GFSK	Ant1	2479	0.46	1.57	29.30	5.33

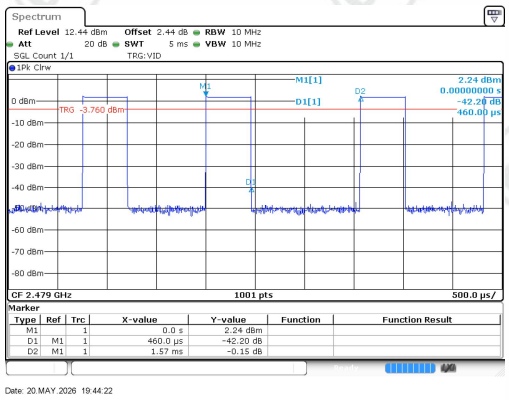
Test Graphs



NTNV-GFSK-Ant1-2402



NTNV-GFSK-Ant1-2440



NTNV-GFSK-Ant1-2479

*** End of Report ***