

Appendix: LoRa(FHSS)

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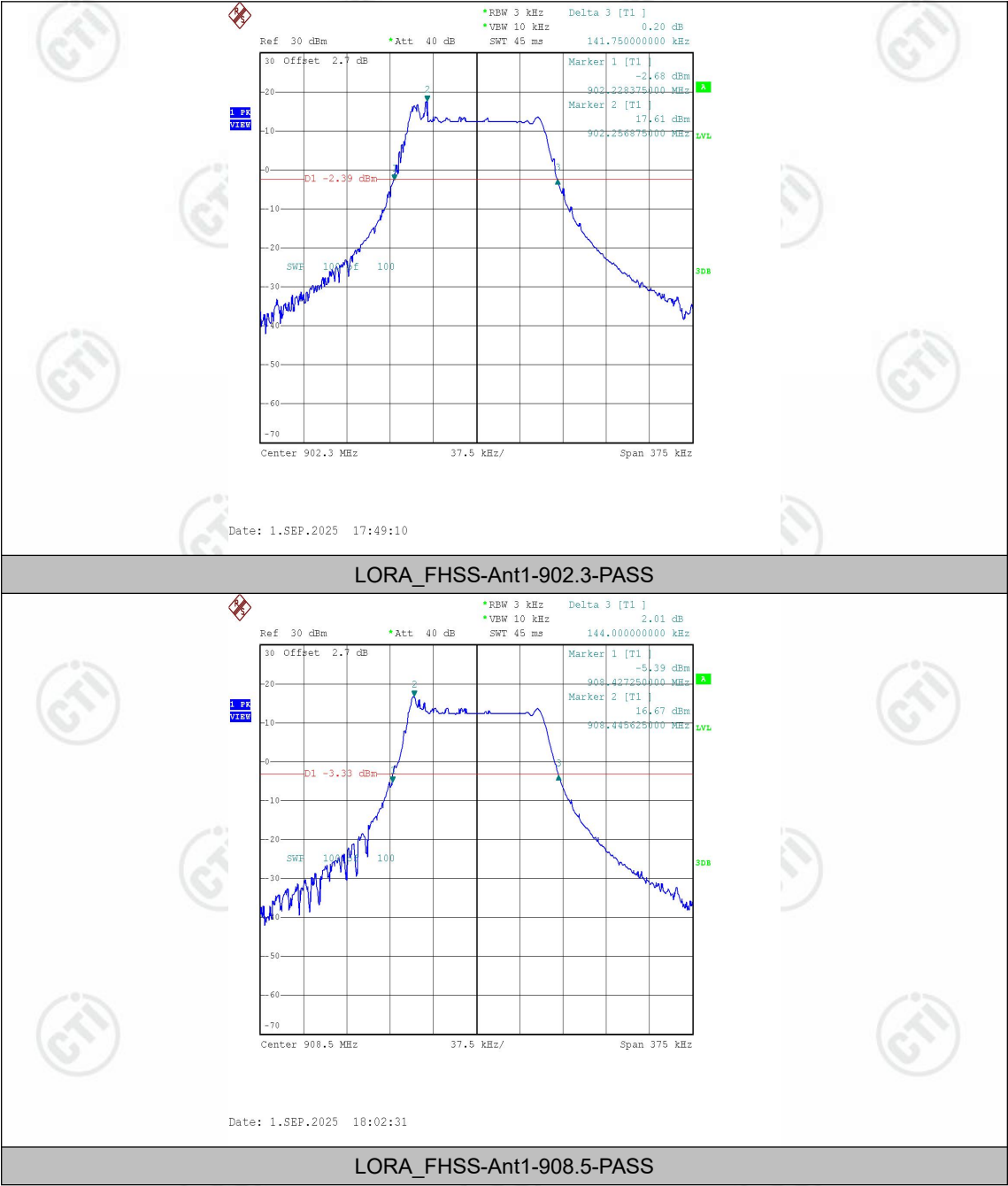
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Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LORA_FHSS	Ant1	902.3	0.14	902.23	902.37	≤0.5	PASS
LORA_FHSS	Ant1	908.5	0.14	908.43	908.57	≤0.5	PASS
LORA_FHSS	Ant1	914.9	0.14	914.83	914.97	≤0.5	PASS

Test Graphs



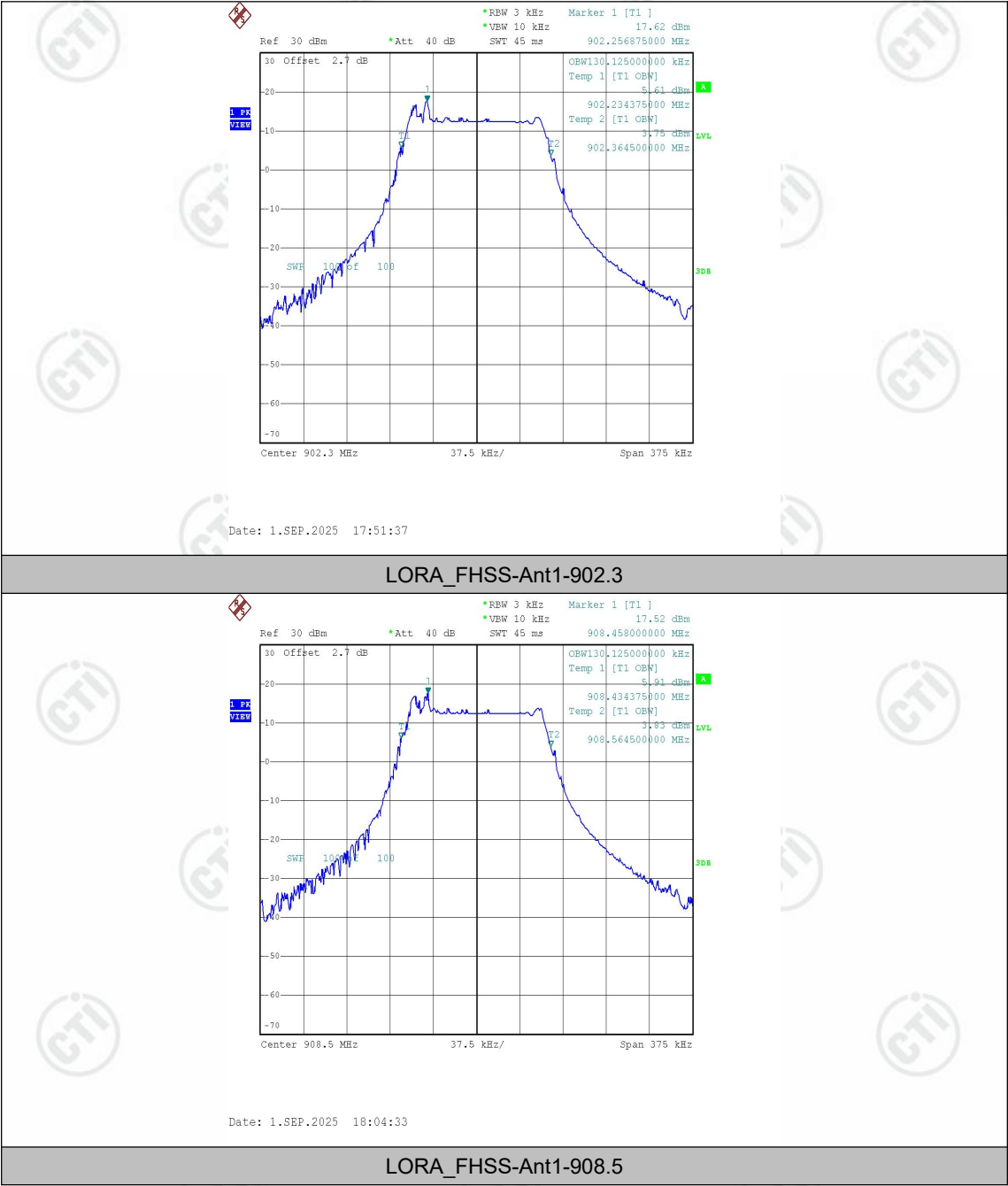


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
LORA_FHSS	Ant1	902.3	0.13013	902.234375	902.3645	---	---
LORA_FHSS	Ant1	908.5	0.13013	908.434375	908.5645	---	---
LORA_FHSS	Ant1	914.9	0.13088	914.833625	914.9645	---	---

Test Graphs



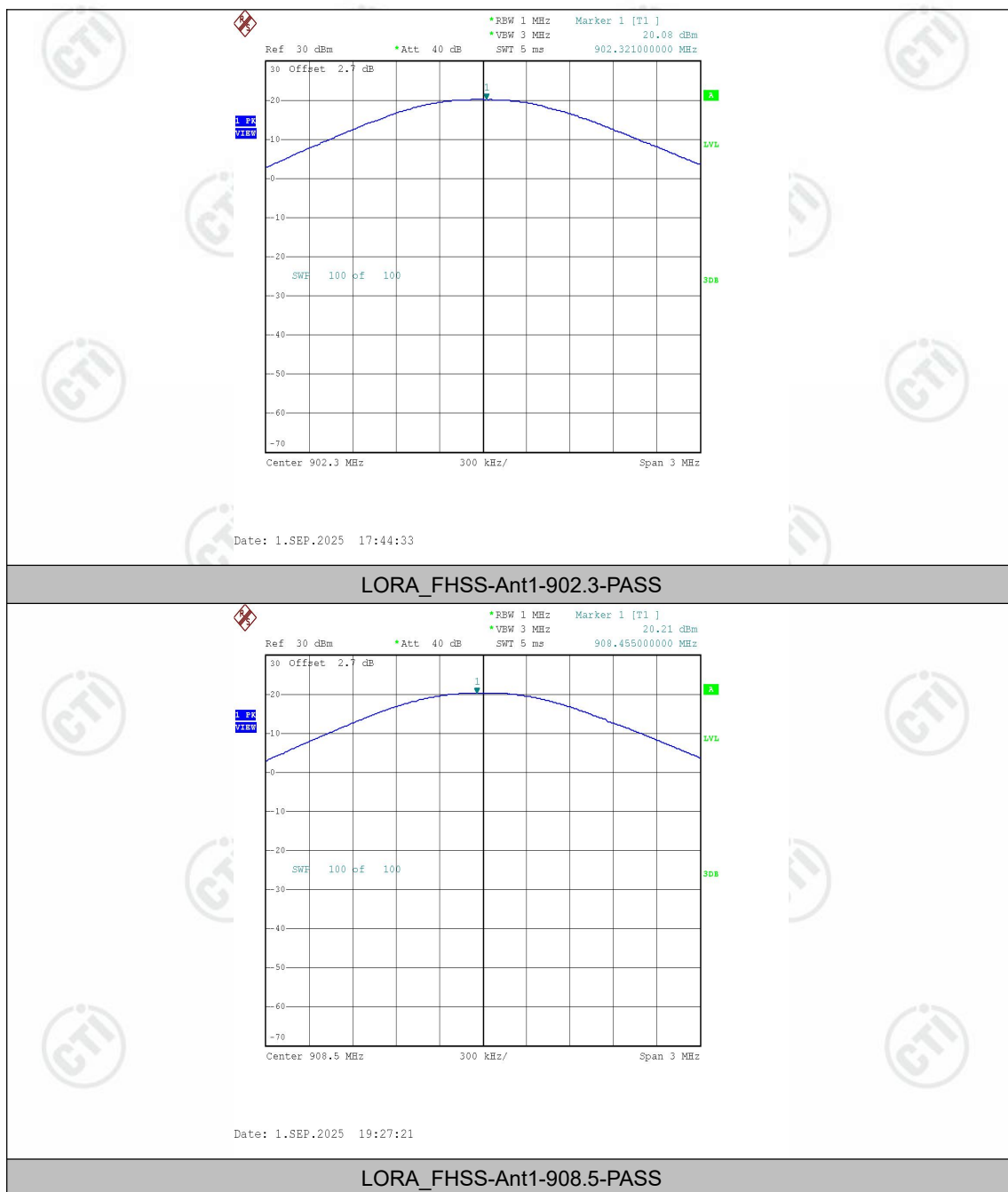


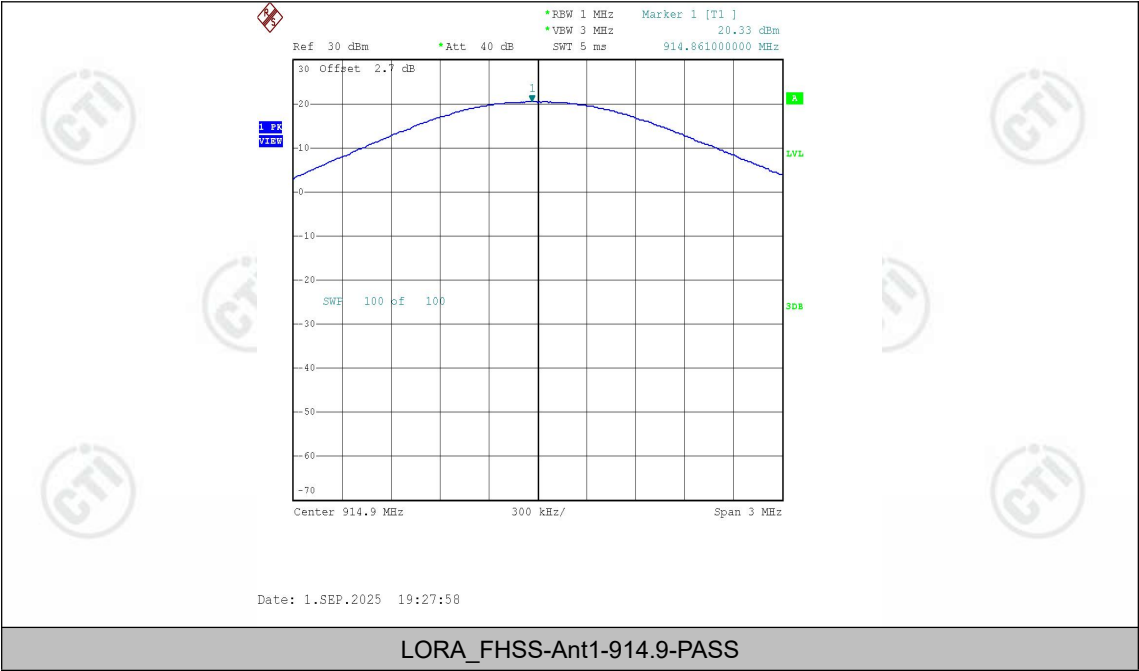
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
LORA_FHSS	Ant1	902.3	20.08	≤30	PASS
LORA_FHSS	Ant1	908.5	20.21	≤30	PASS
LORA_FHSS	Ant1	914.9	20.33	≤30	PASS

Test Graphs



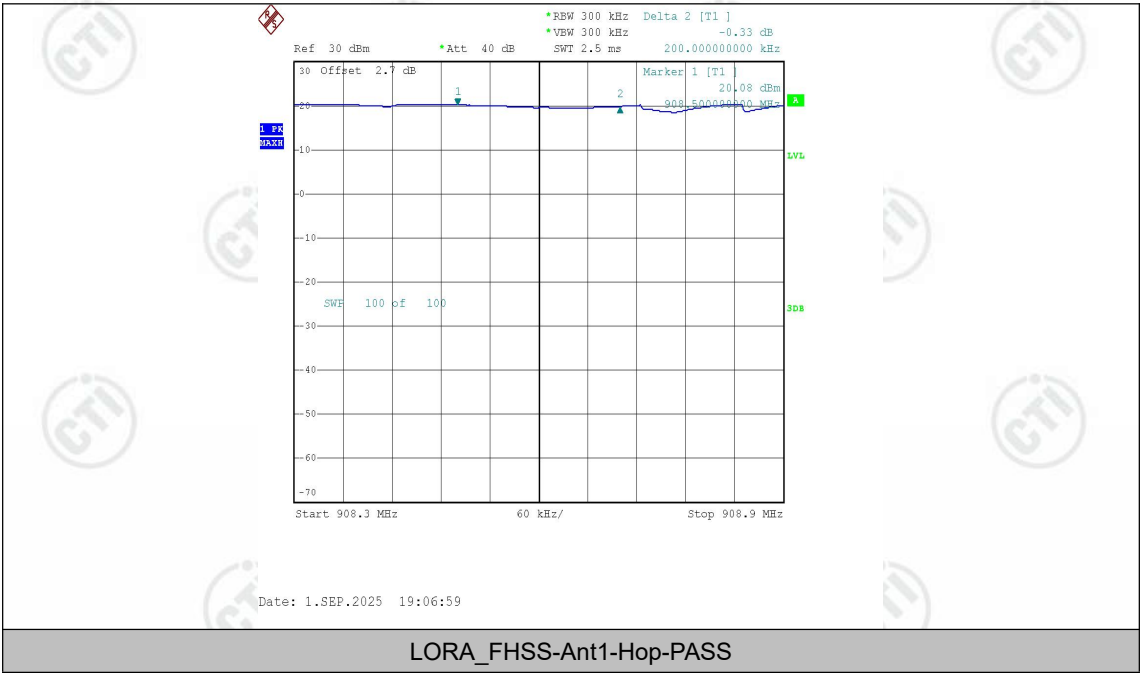


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
LORA_FHSS	Ant1	Hop	0.2	0.14	PASS

Test Graphs

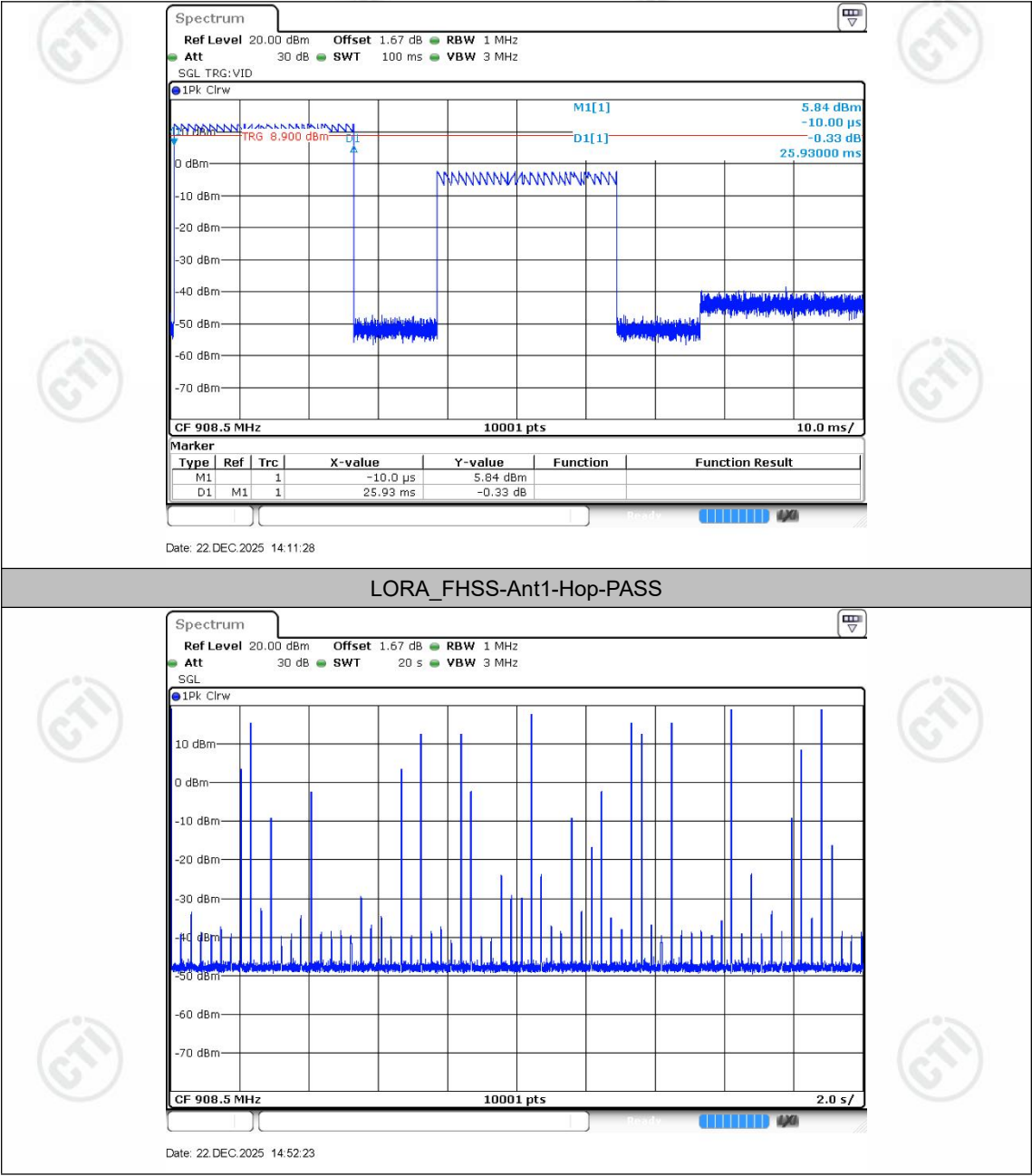


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
LORA_F HSS	Ant1	Hop	25.93	7	0.181	0.4	PASS

Test Graphs

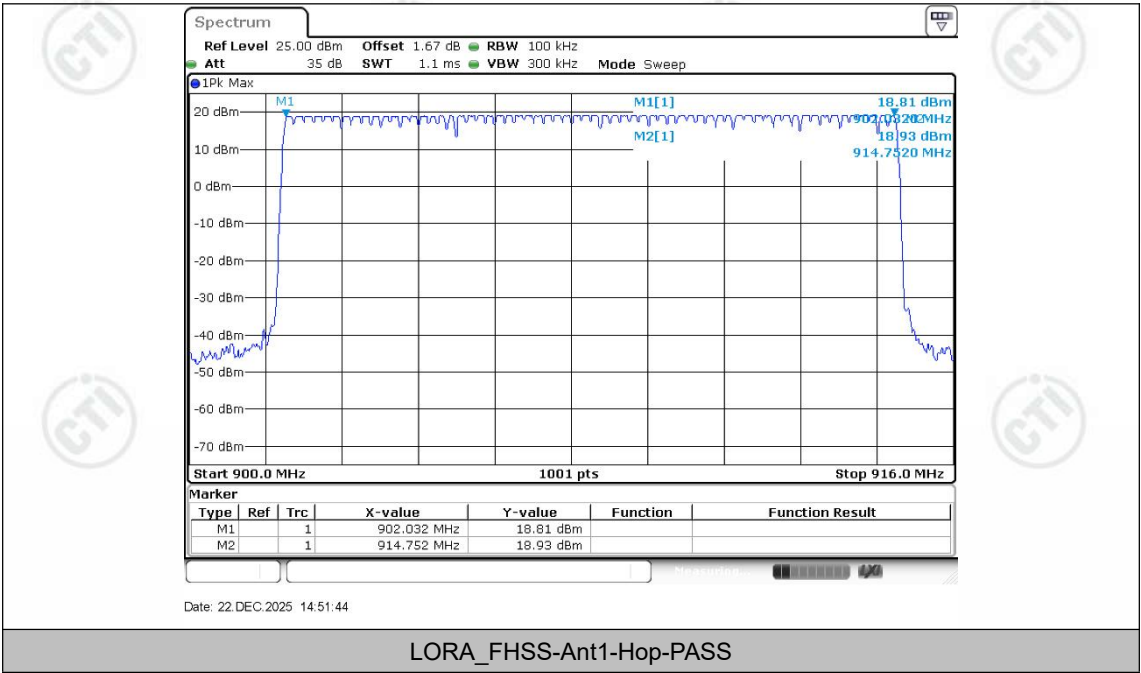


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
LORA_FHSS	Ant1	Hop	62	50	PASS

Test Graphs

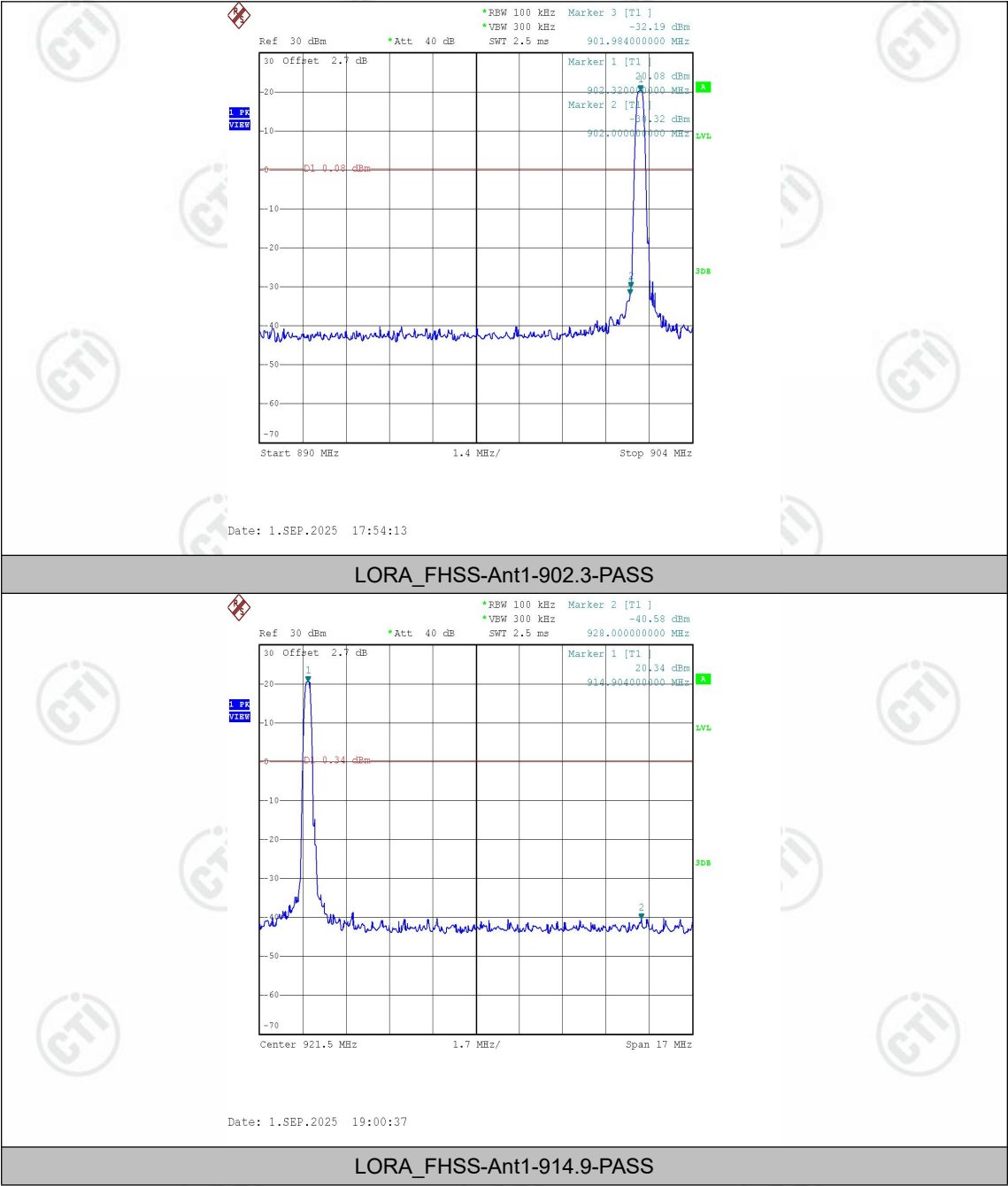


Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
LORA_FHSS	Ant1	Low	902.3	20.08	-32.19	0.08	PASS
LORA_FHSS	Ant1	High	914.2	20.34	-40.58	0.34	PASS

Test Graphs



Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
LORA_FHSS	Ant1	902.3	0~Reference	18.34	18.34	---	PASS
LORA_FHSS	Ant1	902.3	30~1000	18.34	-39.37	≤ -1.66	PASS
LORA_FHSS	Ant1	902.3	1000~26500	18.34	-24.89	≤ -1.66	PASS
LORA_FHSS	Ant1	908.5	0~Reference	20.30	20.30	---	PASS
LORA_FHSS	Ant1	908.5	30~1000	20.30	-40.43	≤ 0.3	PASS
LORA_FHSS	Ant1	908.5	1000~26500	20.30	-24.14	≤ 0.3	PASS
LORA_FHSS	Ant1	914.9	0~Reference	20.37	20.37	---	PASS
LORA_FHSS	Ant1	914.9	30~1000	20.37	-39.82	≤ 0.37	PASS
LORA_FHSS	Ant1	914.9	1000~26500	20.37	-24.49	≤ 0.37	PASS