

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Sleeping Speaker Wiht LED Light

Trade Mark: N/A

Test Model: SM05

FCC ID: 2AA4B-SM05

Environmental Conditions

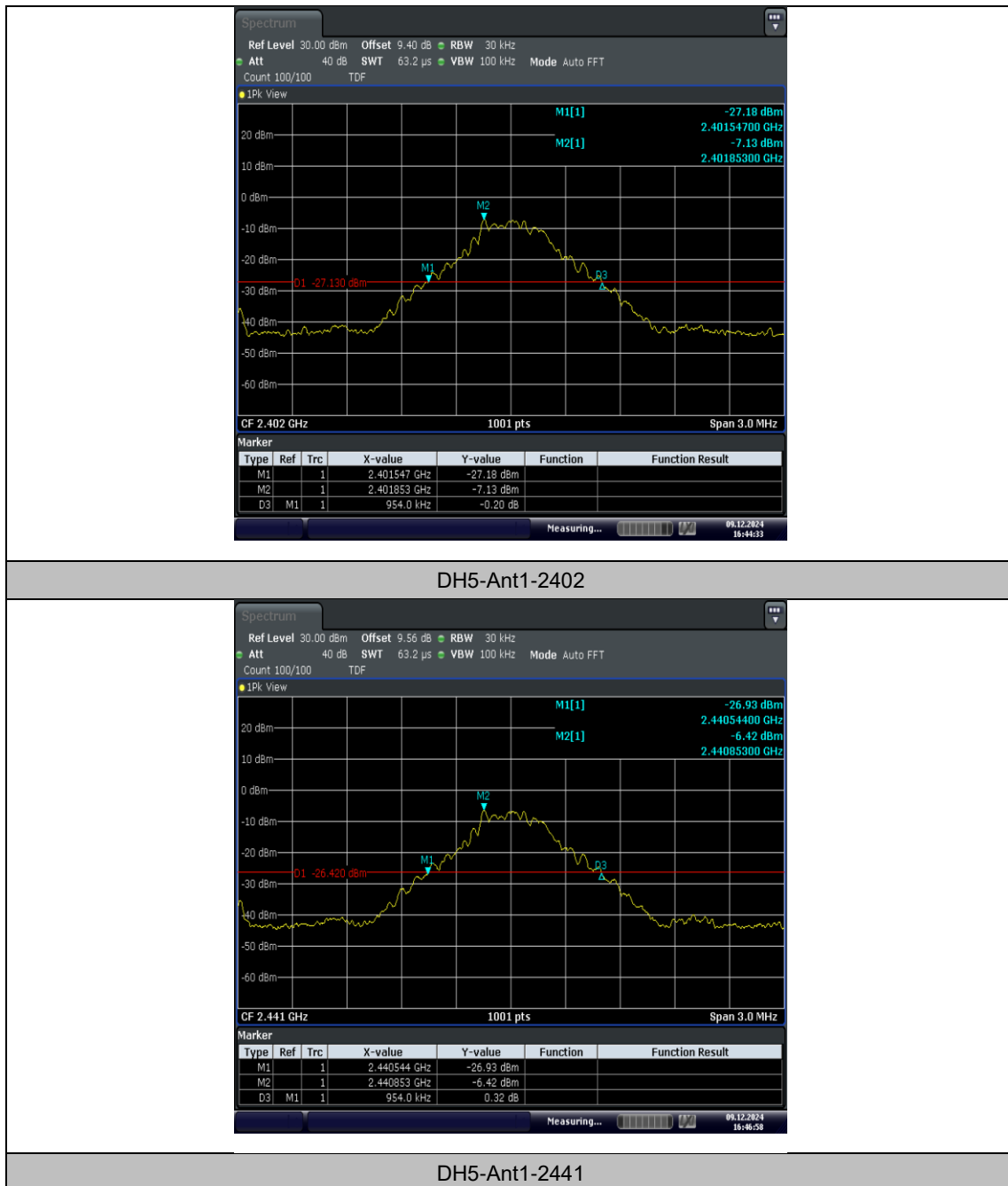
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

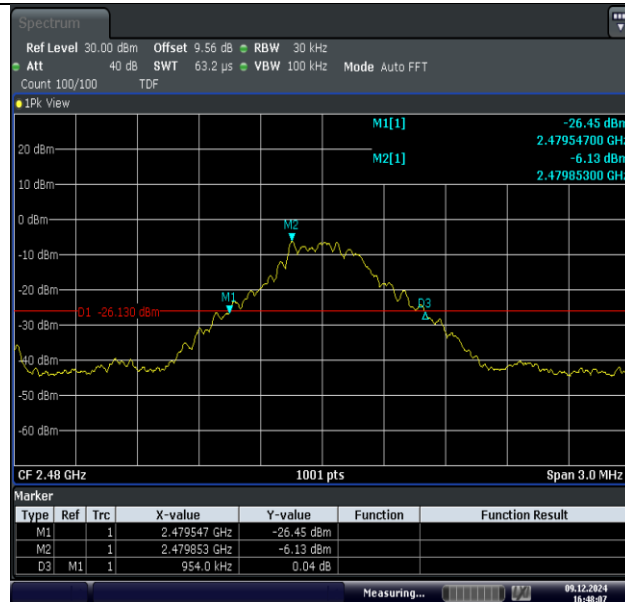
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.95	2401.55	2402.50	---	---
DH5	Ant1	2441	0.95	2440.54	2441.50	---	---
DH5	Ant1	2480	0.95	2479.55	2480.50	---	---
2DH5	Ant1	2402	1.31	2401.36	2402.67	---	---
2DH5	Ant1	2441	1.29	2440.38	2441.67	---	---
2DH5	Ant1	2480	1.32	2479.35	2480.67	---	---

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



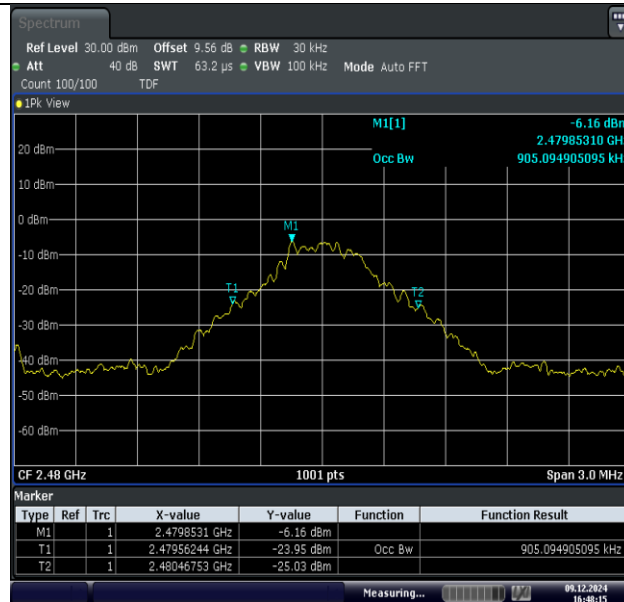
Appendix B: Occupied Channel Bandwidth

Test Result

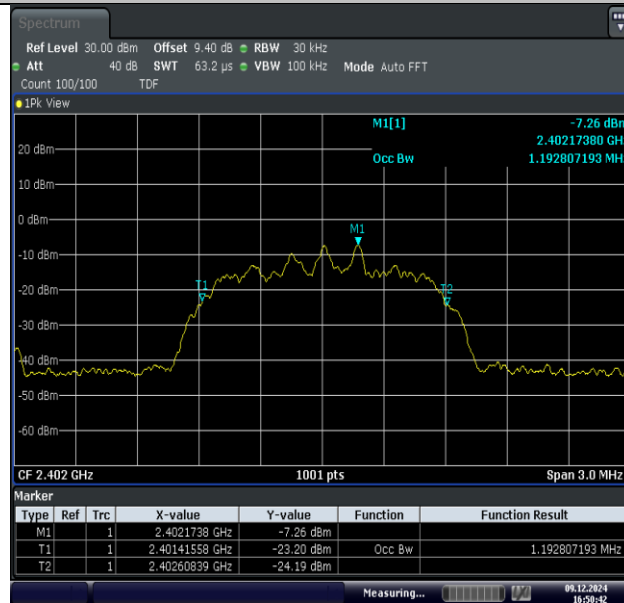
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.911	2401.5594	2402.4705	---	---
DH5	Ant1	2441	0.905	2440.5594	2441.4645	---	---
DH5	Ant1	2480	0.905	2479.5624	2480.4675	---	---
2DH5	Ant1	2402	1.193	2401.4156	2402.6084	---	---
2DH5	Ant1	2441	1.193	2440.4156	2441.6084	---	---
2DH5	Ant1	2480	1.19	2479.4186	2480.6084	---	---

Test Graphs

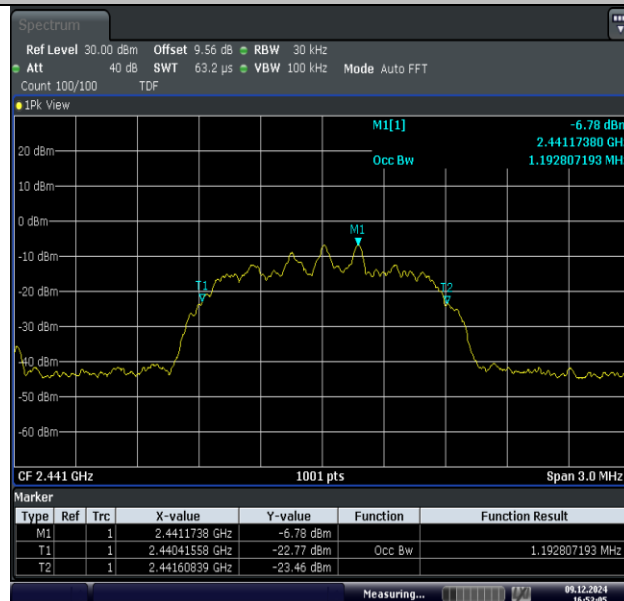




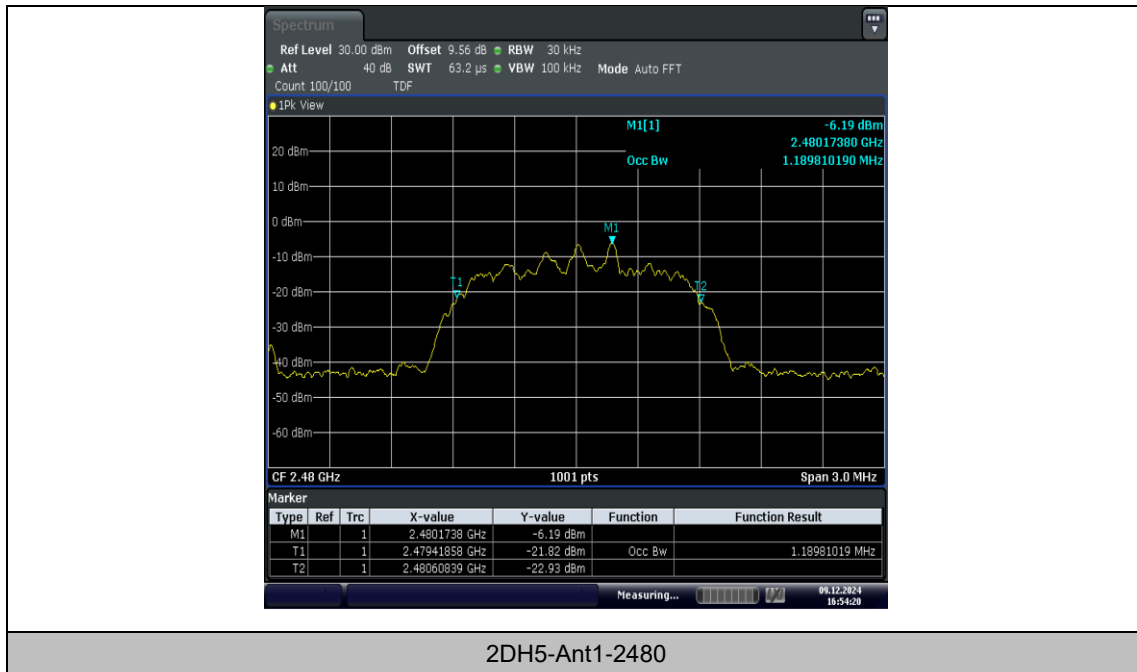
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



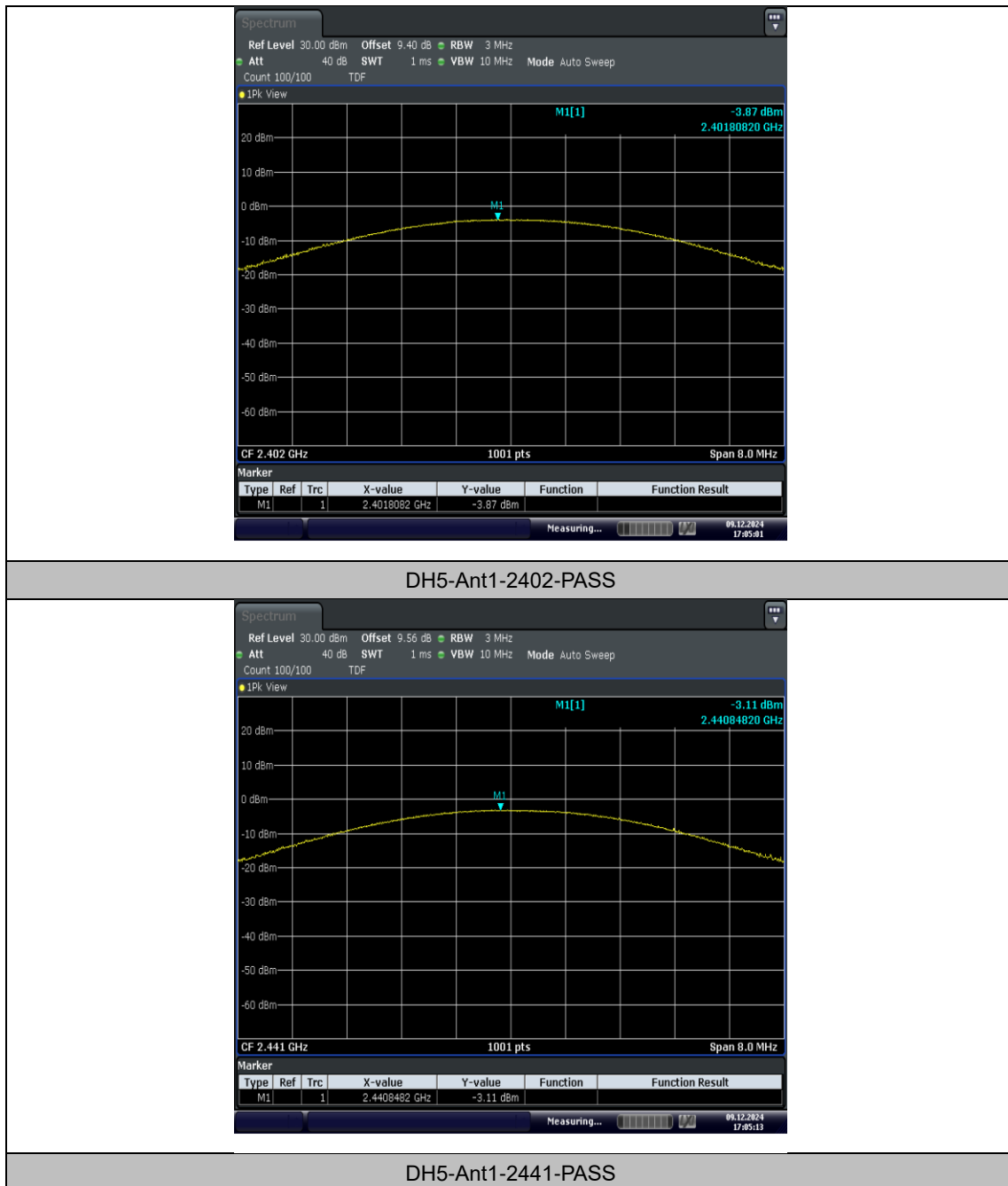
2DH5-Ant1-2480

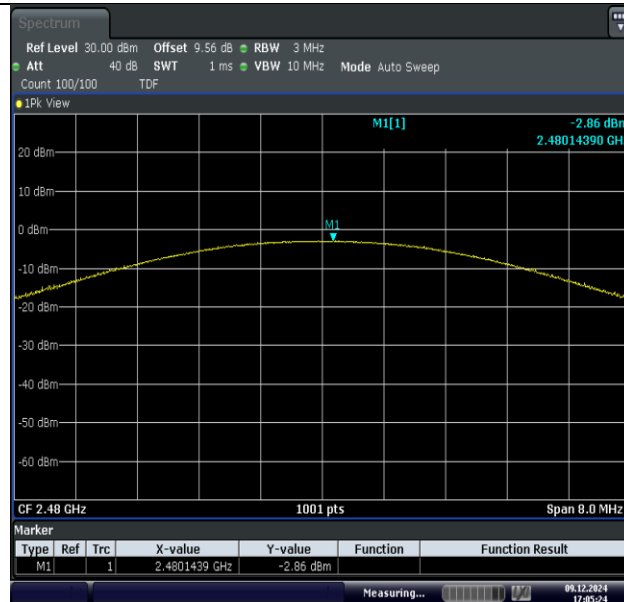
Appendix C: Maximum peak conducted output power

Test Result

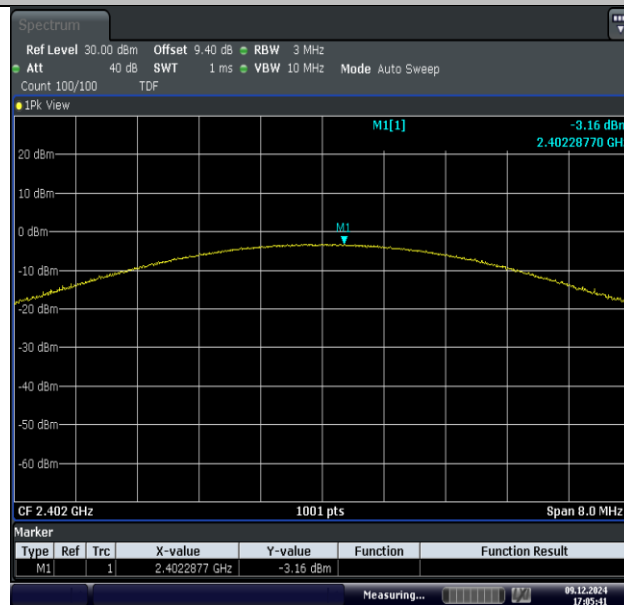
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-3.87	≤30	PASS
DH5	Ant1	2441	-3.11	≤30	PASS
DH5	Ant1	2480	-2.86	≤30	PASS
2DH5	Ant1	2402	-3.16	≤20.97	PASS
2DH5	Ant1	2441	-2.55	≤20.97	PASS
2DH5	Ant1	2480	-2.32	≤20.97	PASS

Test Graphs

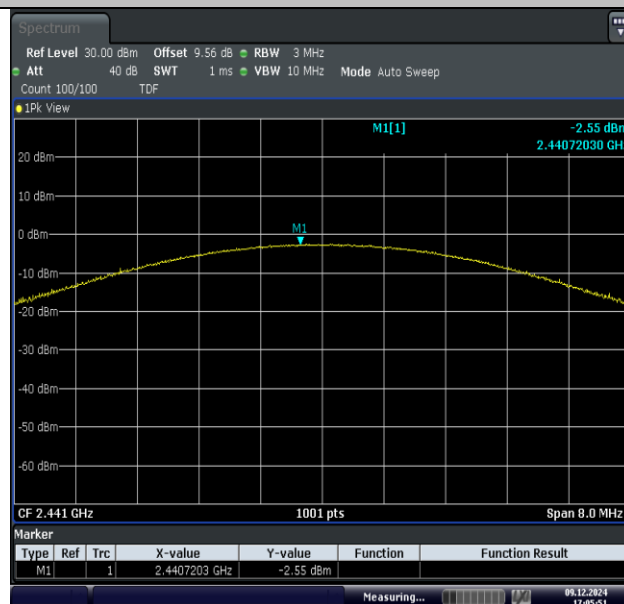




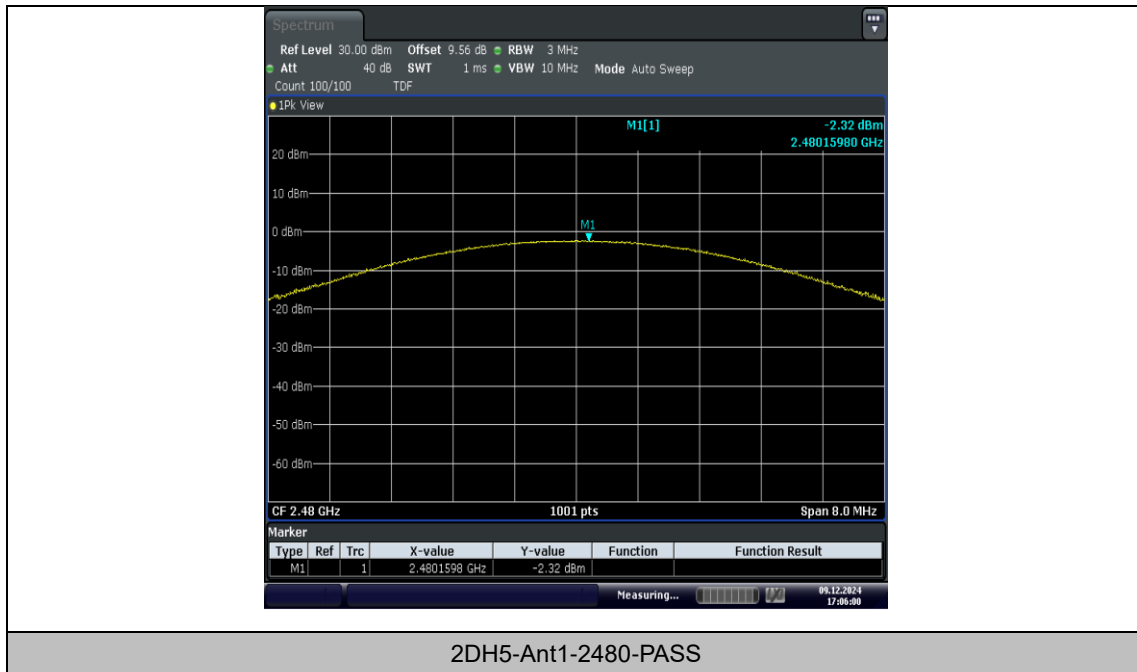
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS

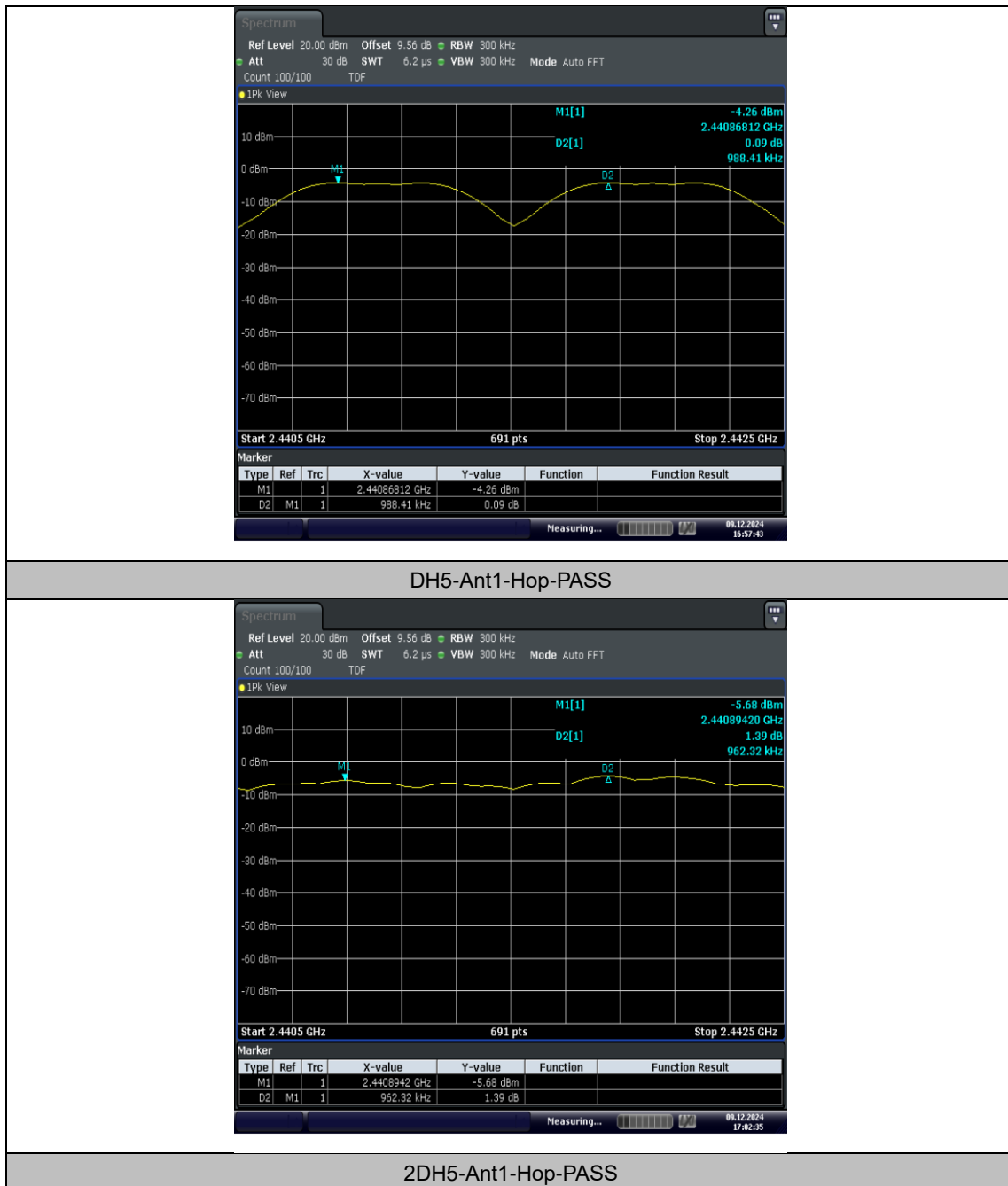


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.988	≥0.950	PASS
2DH5	Ant1	Hop	0.962	≥0.880	PASS

Test Graphs

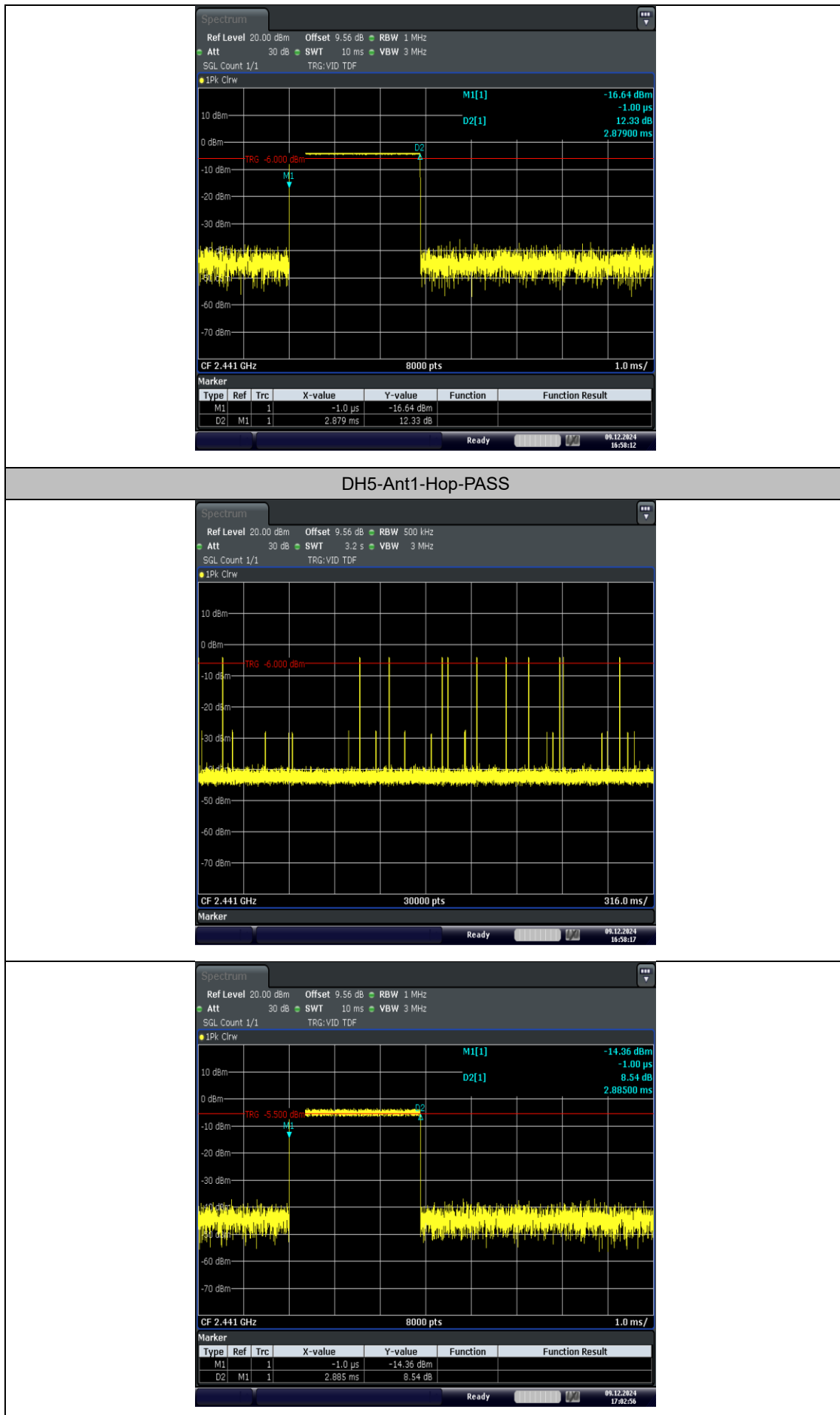


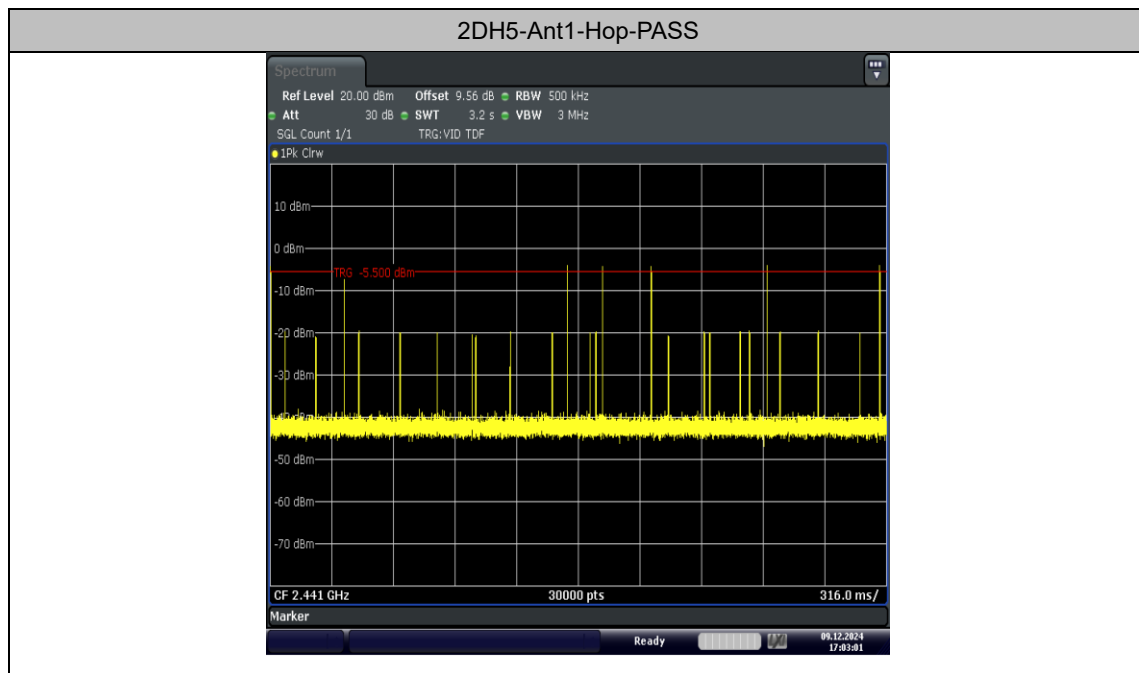
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.879	120	0.345	≤0.4	PASS
2DH5	Ant1	Hop	2.885	70	0.202	≤0.4	PASS

Test Graphs



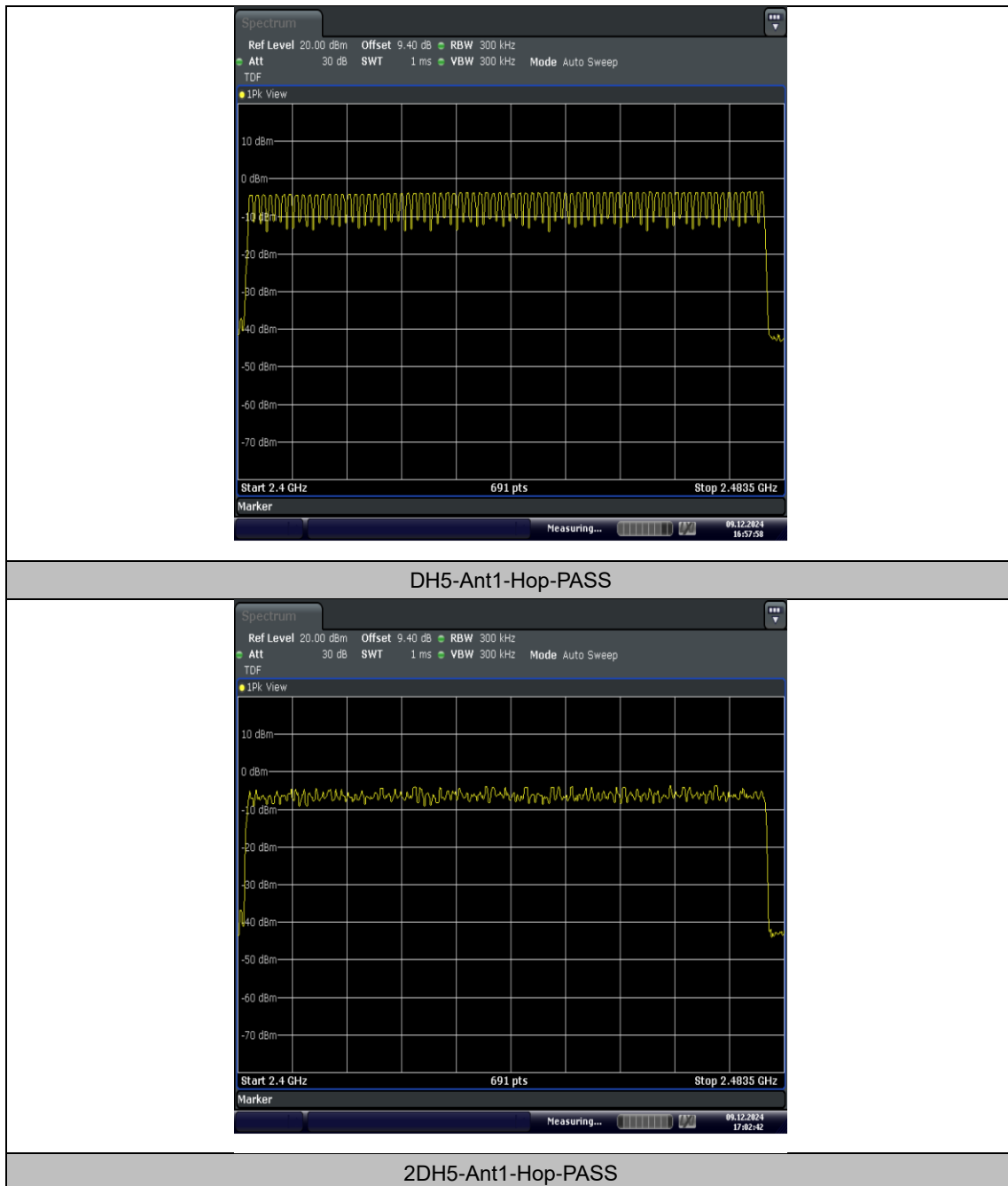


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

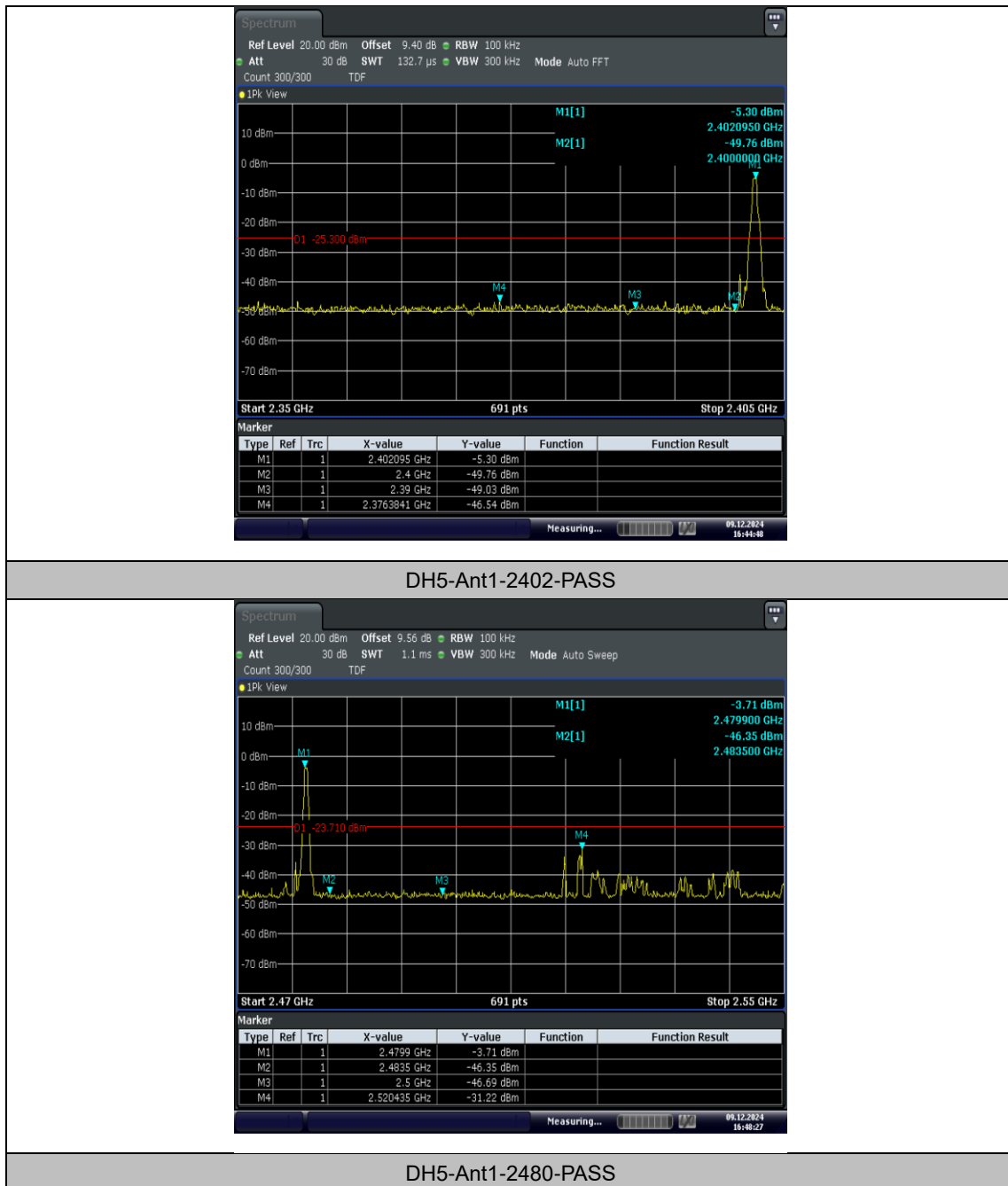


Appendix G: Band edge measurements

Test Result

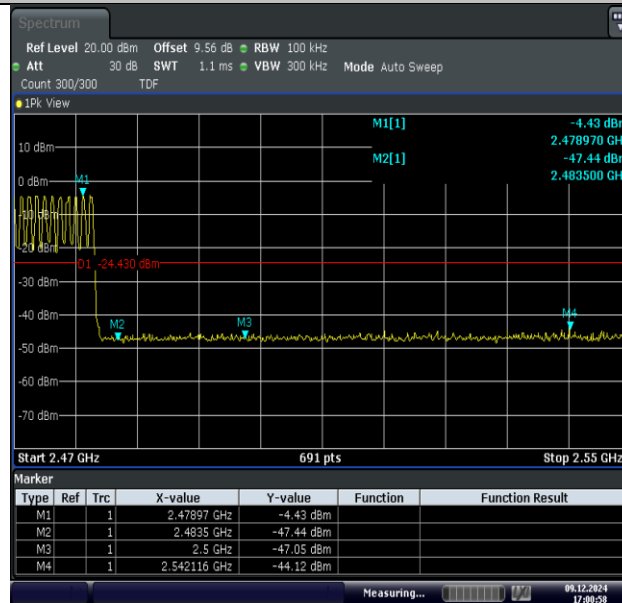
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.30	-46.54	≤ -25.3	PASS
DH5	Ant1	High	2480	-3.71	-31.22	≤ -23.71	PASS
DH5	Ant1	Low	Hop_2402	-5.58	-46.96	≤ -25.58	PASS
DH5	Ant1	High	Hop_2480	-4.43	-44.12	≤ -24.43	PASS
2DH5	Ant1	Low	2402	-4.85	-45.65	≤ -24.85	PASS
2DH5	Ant1	High	2480	-3.90	-45.05	≤ -23.9	PASS
2DH5	Ant1	Low	Hop_2402	-6.21	-46.84	≤ -26.21	PASS
2DH5	Ant1	High	Hop_2480	-4.02	-44.63	≤ -24.02	PASS

Test Graphs





DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS



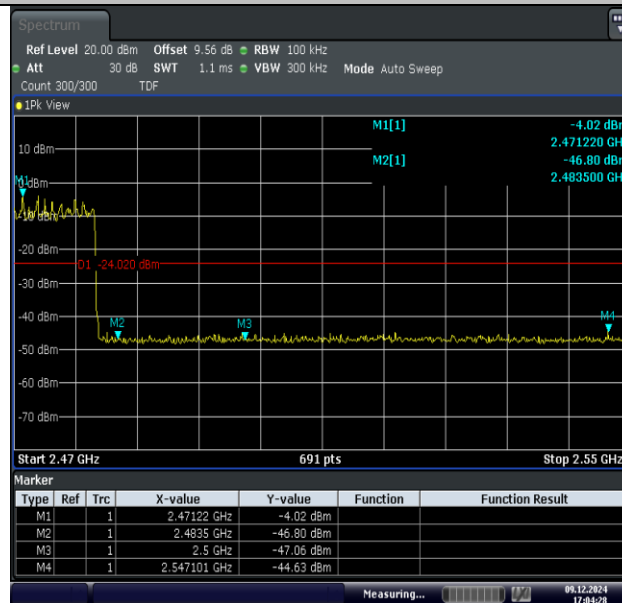
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



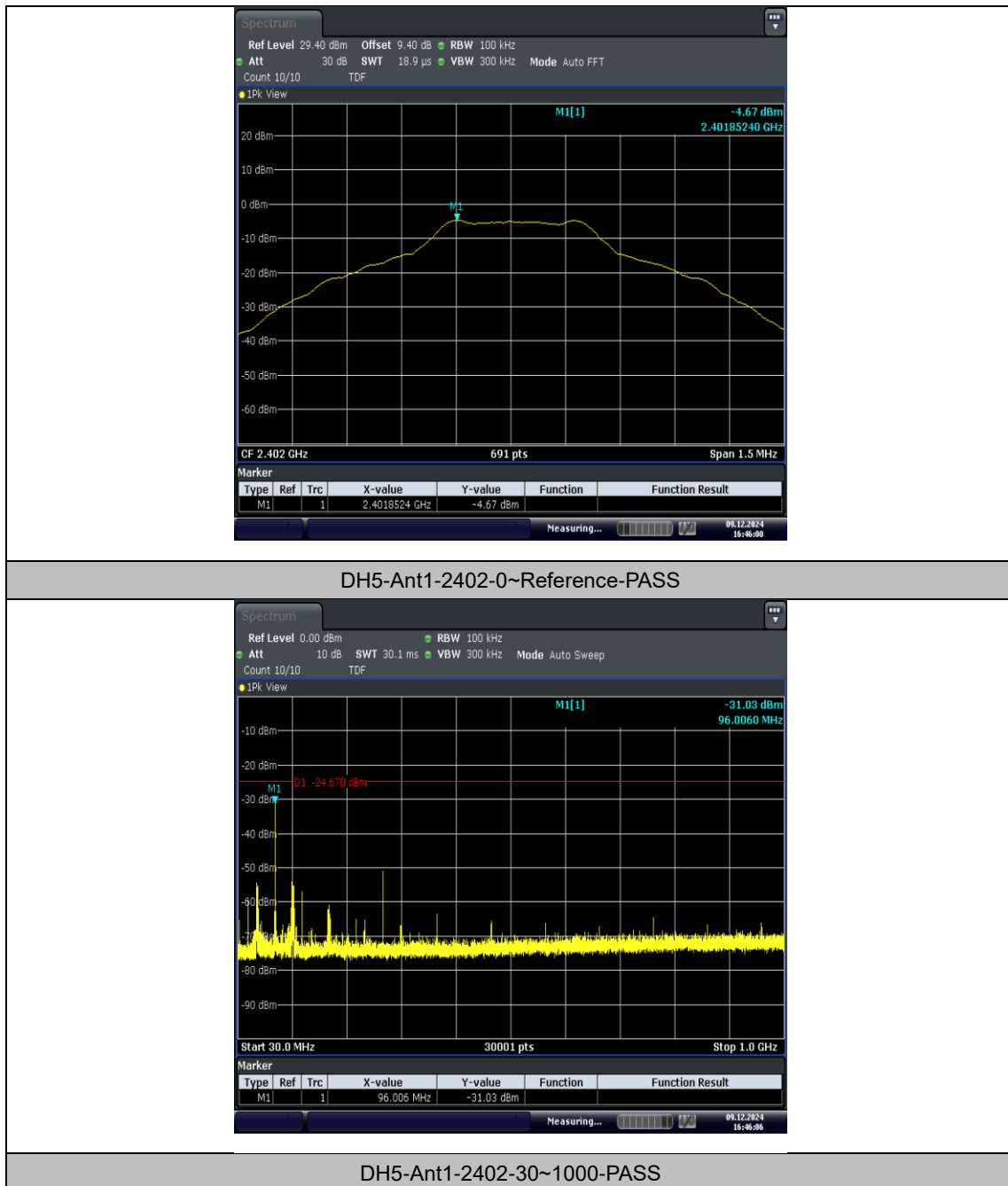
2DH5-Ant1-Hop_2480-PASS

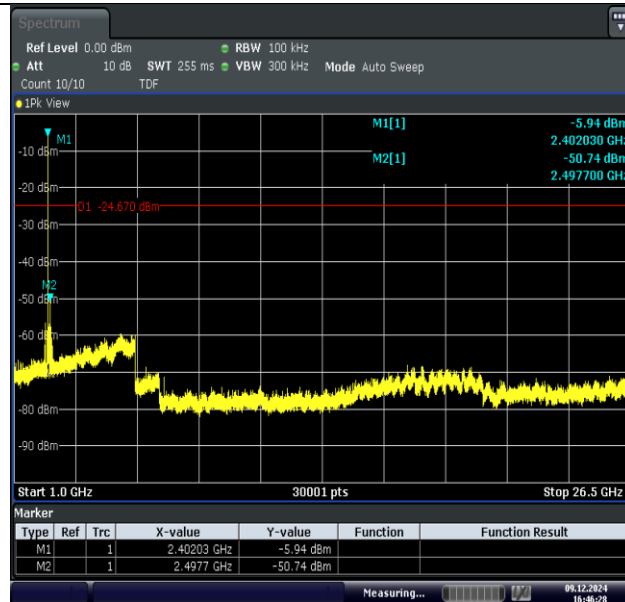
Appendix H: Conducted Spurious Emission

Test Result

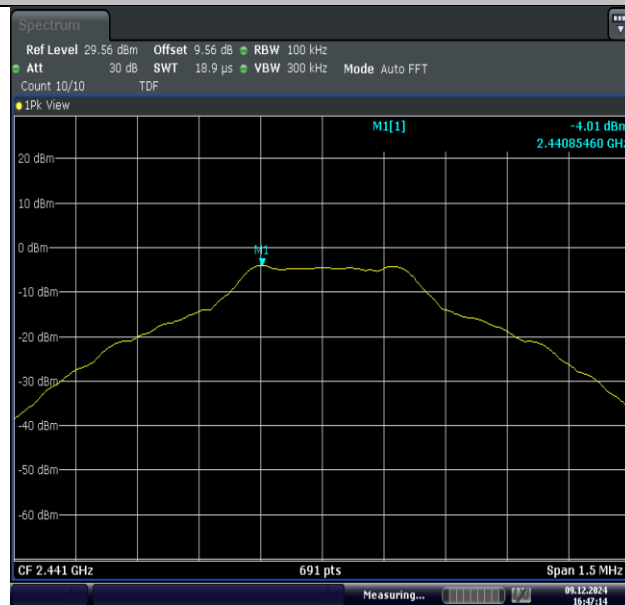
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-4.67	-4.67	---	PASS
DH5	Ant1	2402	30~1000	-4.67	-31.03	≤-24.67	PASS
DH5	Ant1	2402	1000~26500	-4.67	-50.74	≤-24.67	PASS
DH5	Ant1	2441	0~Reference	-4.01	-4.01	---	PASS
DH5	Ant1	2441	30~1000	-4.01	-48.72	≤-24.01	PASS
DH5	Ant1	2441	1000~26500	-4.01	-50.69	≤-24.01	PASS
DH5	Ant1	2480	0~Reference	-3.81	-3.81	---	PASS
DH5	Ant1	2480	30~1000	-3.81	-49.15	≤-23.81	PASS
DH5	Ant1	2480	1000~26500	-3.81	-50.98	≤-23.81	PASS
2DH5	Ant1	2402	0~Reference	-4.81	-4.81	---	PASS
2DH5	Ant1	2402	30~1000	-4.81	-31.06	≤-24.81	PASS
2DH5	Ant1	2402	1000~26500	-4.81	-51.3	≤-24.81	PASS
2DH5	Ant1	2441	0~Reference	-4.14	-4.14	---	PASS
2DH5	Ant1	2441	30~1000	-4.14	-31.08	≤-24.14	PASS
2DH5	Ant1	2441	1000~26500	-4.14	-44.81	≤-24.14	PASS
2DH5	Ant1	2480	0~Reference	-3.83	-3.83	---	PASS
2DH5	Ant1	2480	30~1000	-3.83	-49.34	≤-23.83	PASS
2DH5	Ant1	2480	1000~26500	-3.83	-55.15	≤-23.83	PASS

Test Graphs

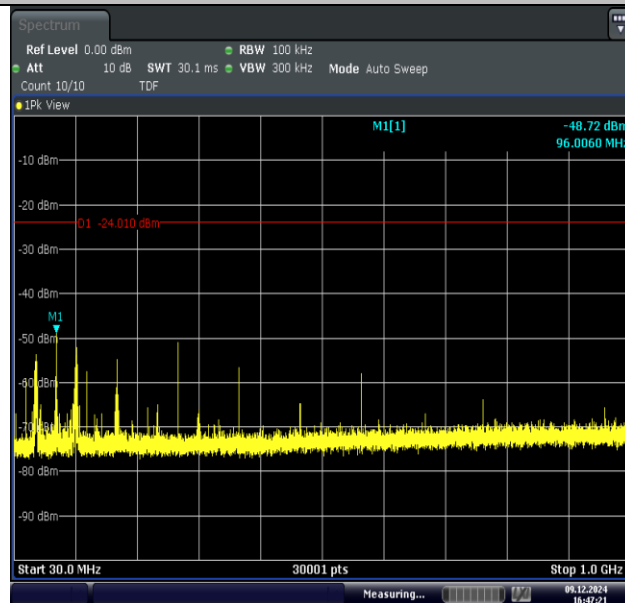




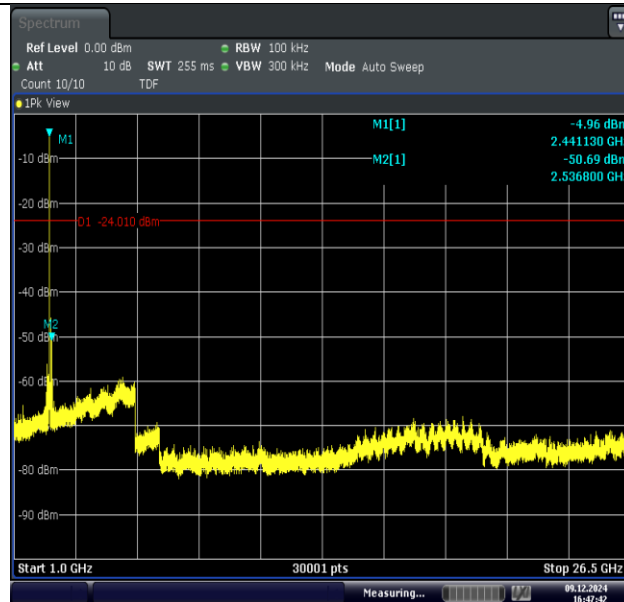
DH5-Ant1-2402-1000~26500-PASS



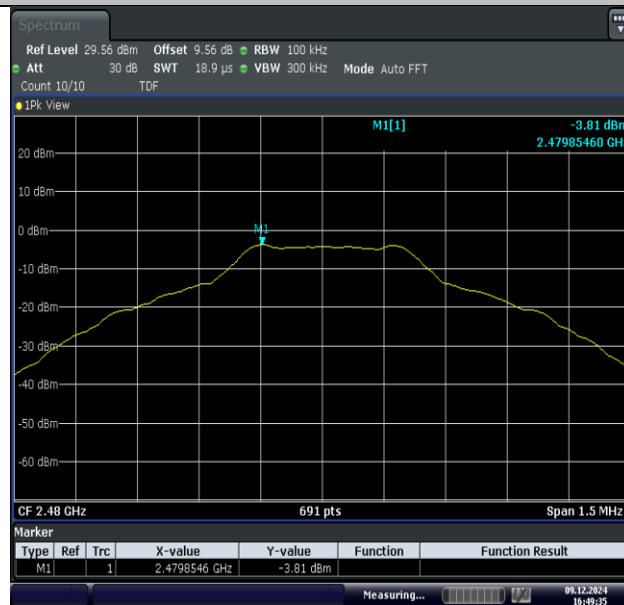
DH5-Ant1-2441-0~Reference-PASS



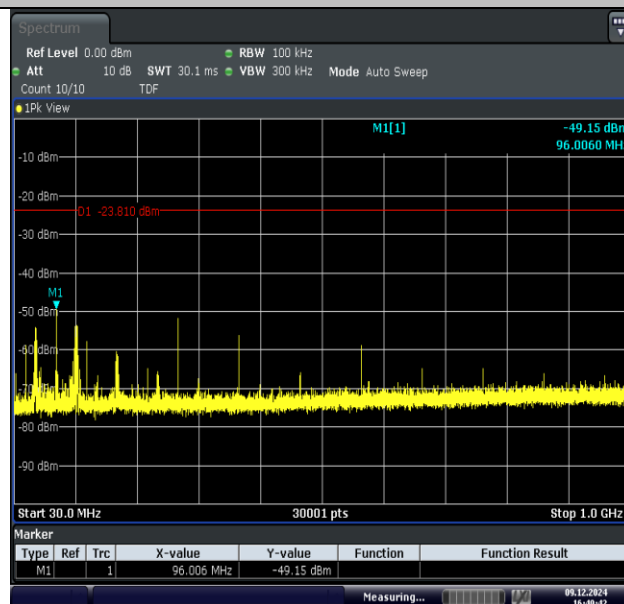
DH5-Ant1-2441-30~1000-PASS



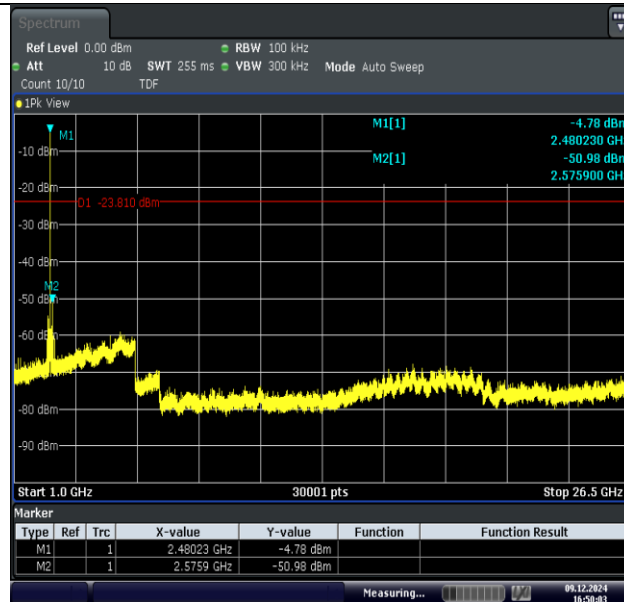
DH5-Ant1-2441-1000~26500-PASS



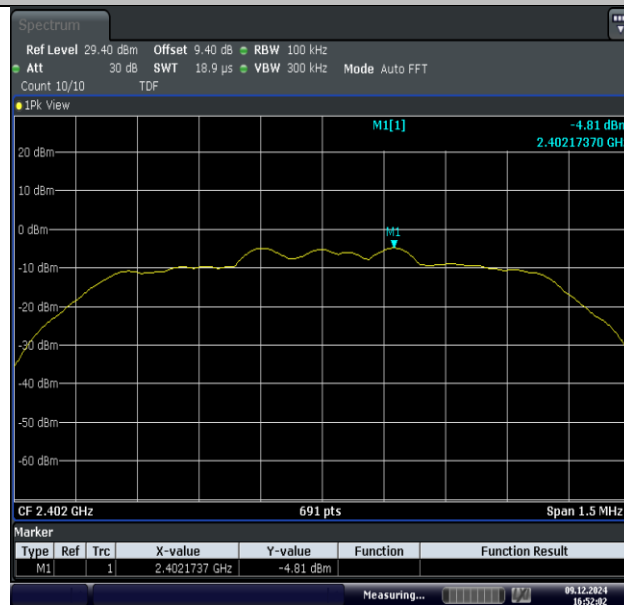
DH5-Ant1-2480-0~Reference-PASS



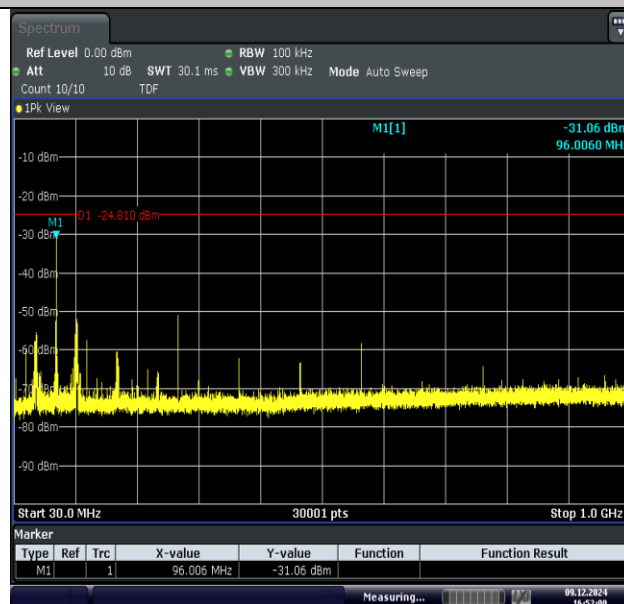
DH5-Ant1-2480-30~1000-PASS



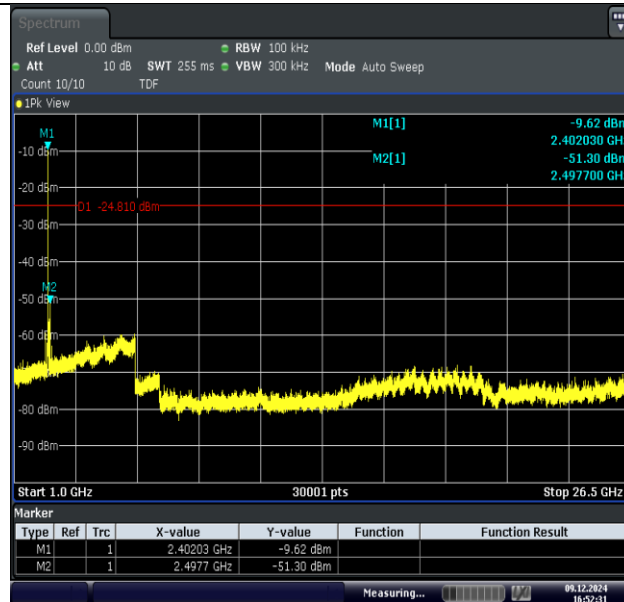
DH5-Ant1-2480-1000~26500-PASS



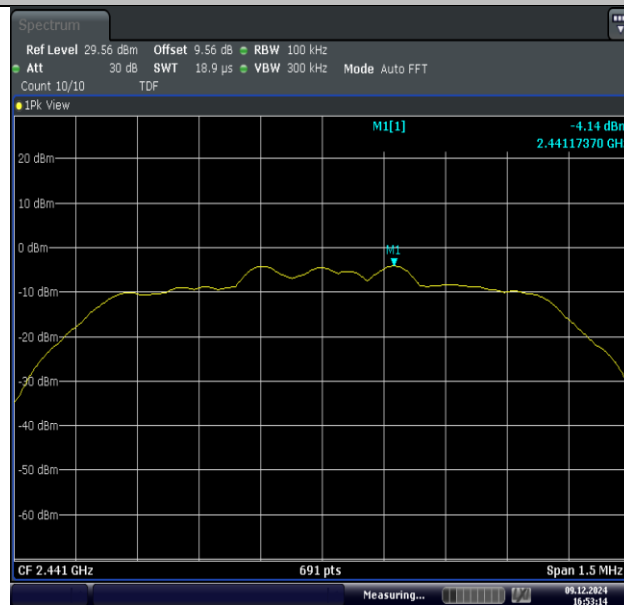
2DH5-Ant1-2402-0~Reference-PASS



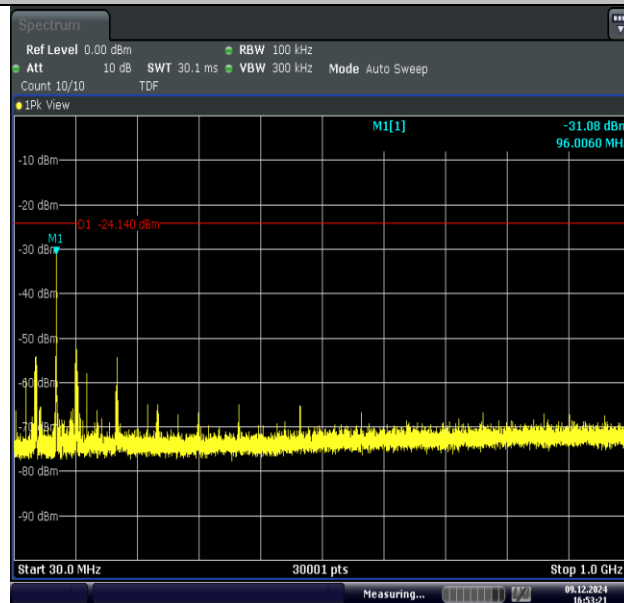
2DH5-Ant1-2402-30~1000-PASS



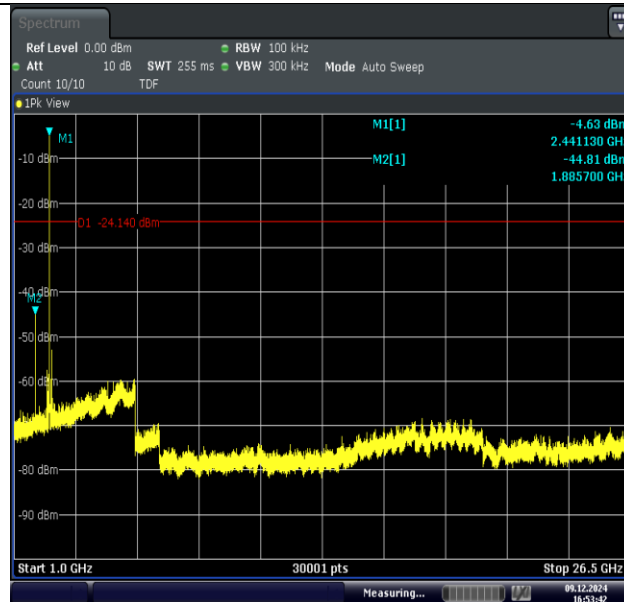
2DH5-Ant1-2402-1000~26500-PASS



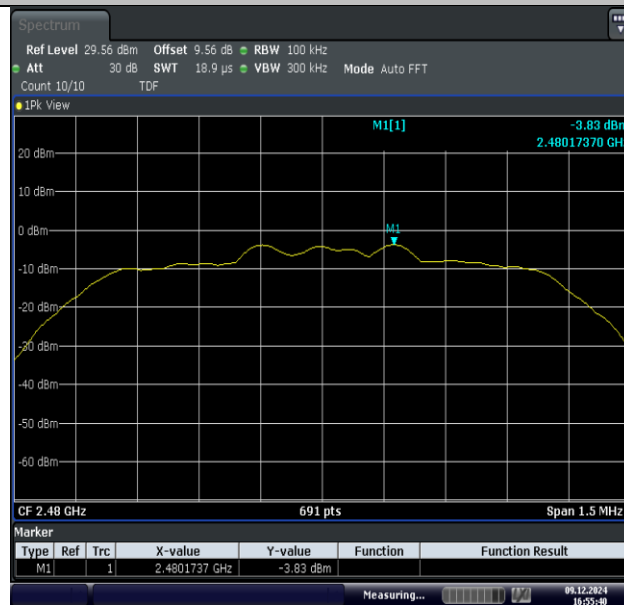
2DH5-Ant1-2441-0~Reference-PASS



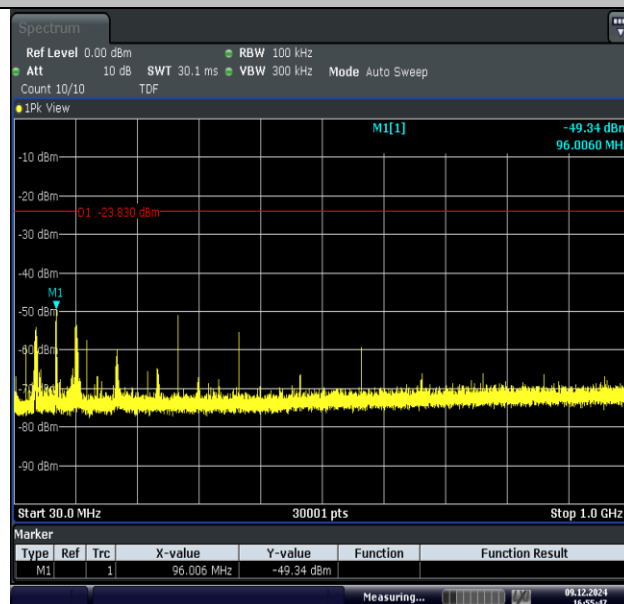
2DH5-Ant1-2441-30~1000-PASS



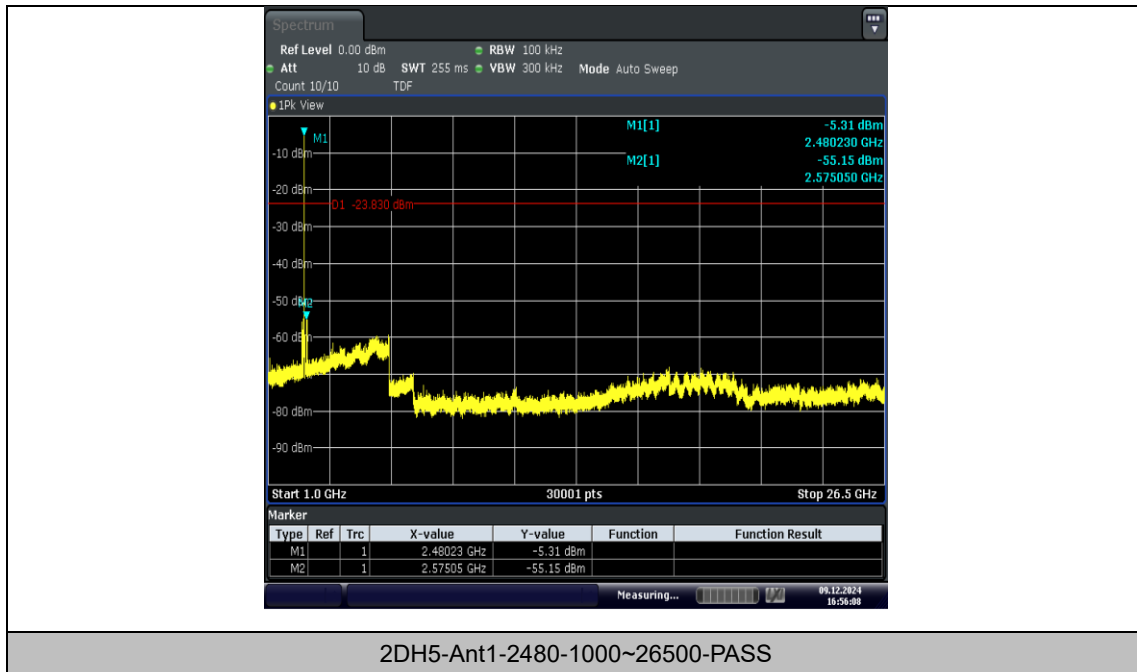
2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS

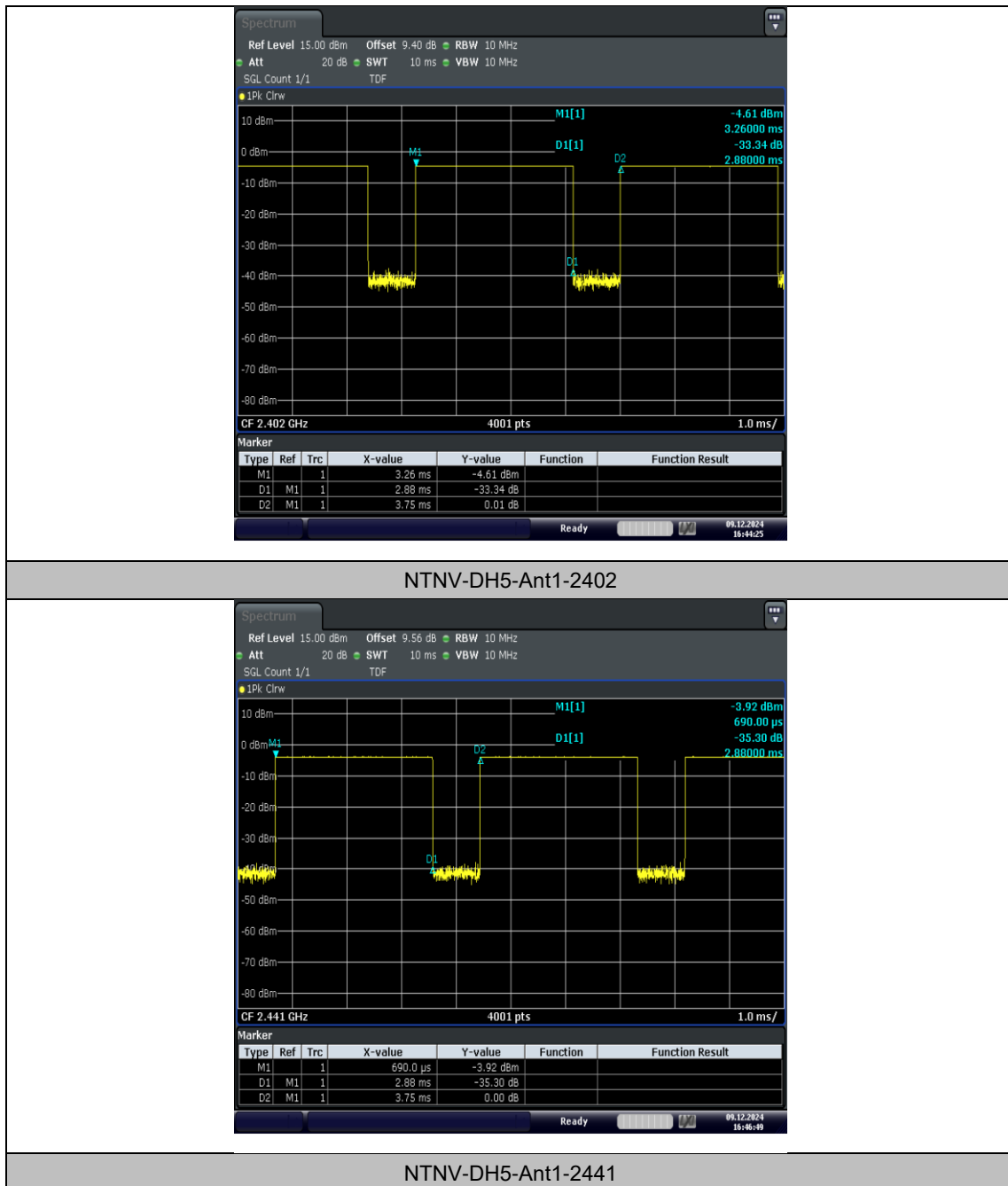


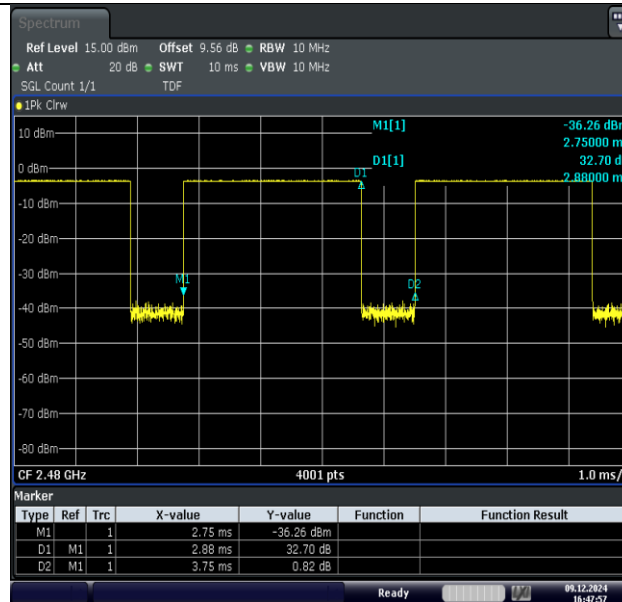
Appendix I: Duty Cycle

Test Result

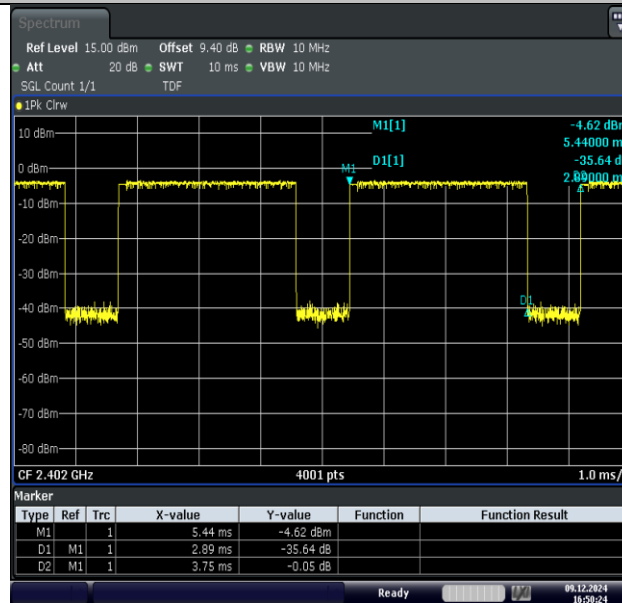
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

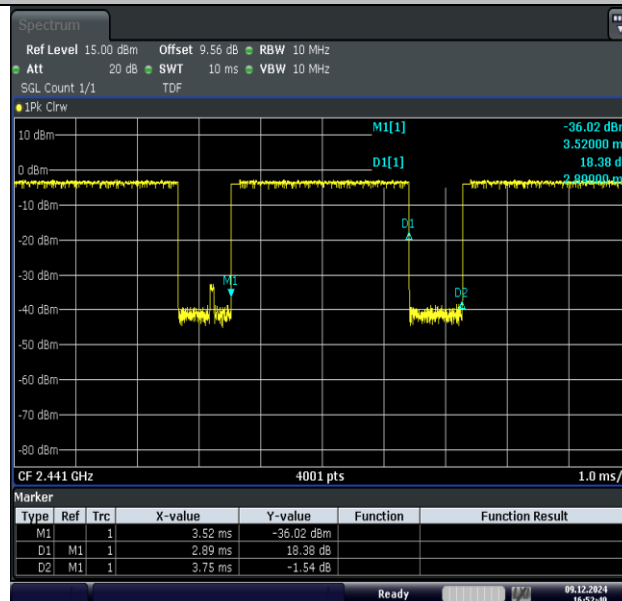




NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441

