

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

Product Name: TRUE WIRELESS EARBUDS

Trade Mark: BarbetSound

Test Model: RT62AE

FCC ID: 2ATOY-RT612AE

Environmental Conditions

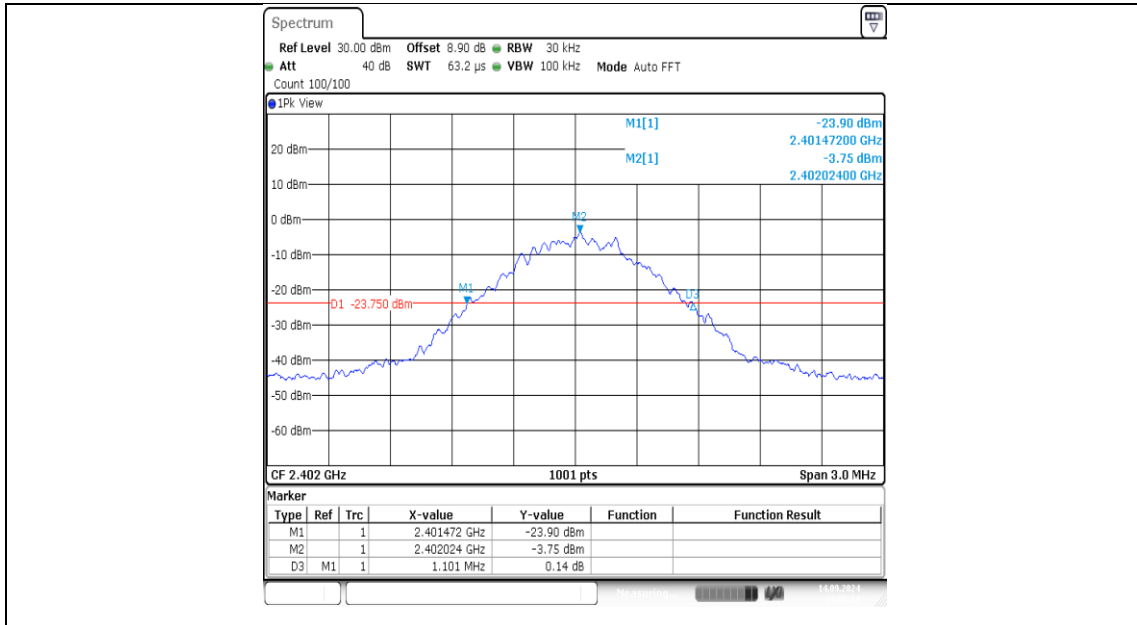
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

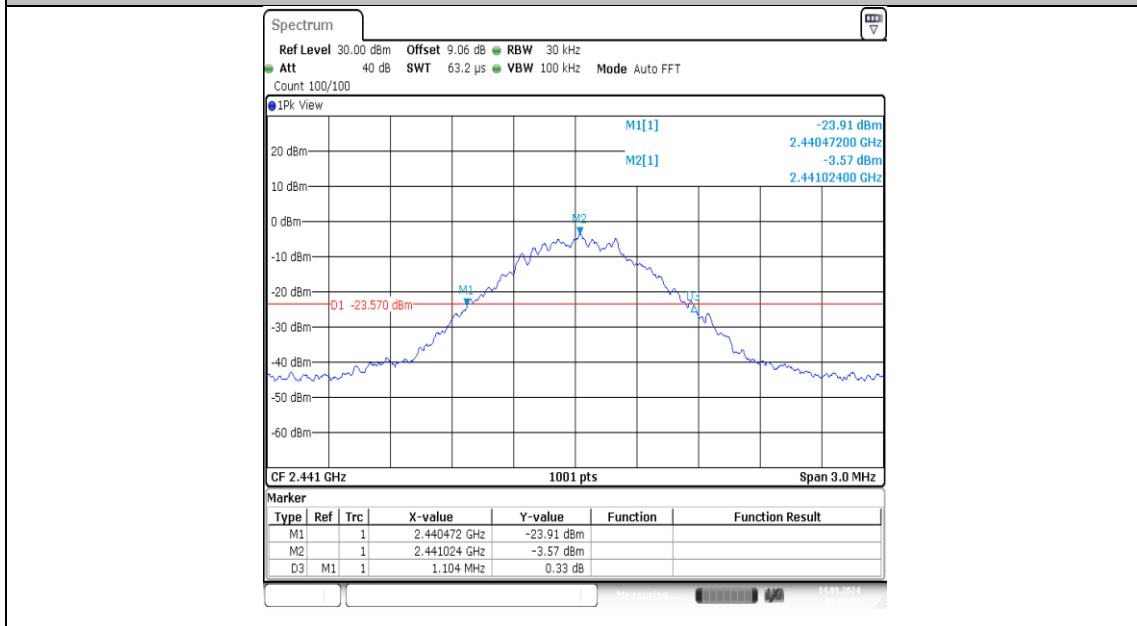
Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	1.10	2401.47	2402.57	---	---
DH5	Ant1	2441	1.10	2440.47	2441.58	---	---
DH5	Ant1	2480	1.11	2479.47	2480.58	---	---
2DH5	Ant1	2402	1.33	2401.36	2402.68	---	---
2DH5	Ant1	2441	1.33	2440.35	2441.68	---	---
2DH5	Ant1	2480	1.35	2479.35	2480.69	---	---
3DH5	Ant1	2402	1.34	2401.35	2402.69	---	---
3DH5	Ant1	2441	1.34	2440.35	2441.69	---	---
3DH5	Ant1	2480	1.35	2479.34	2480.69	---	---

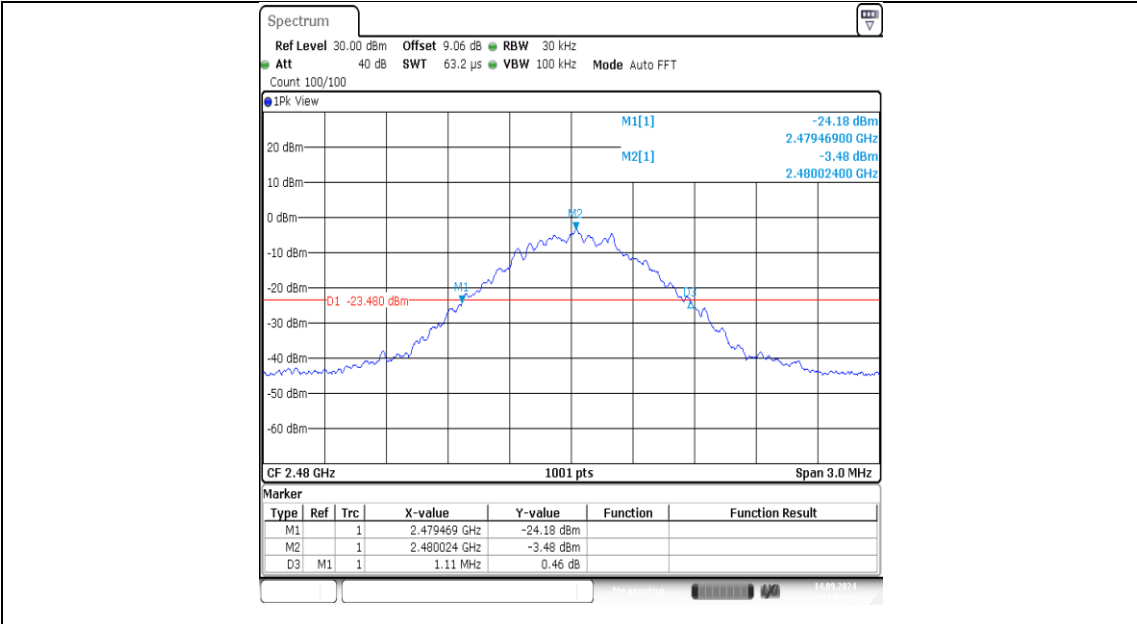
Test Graphs



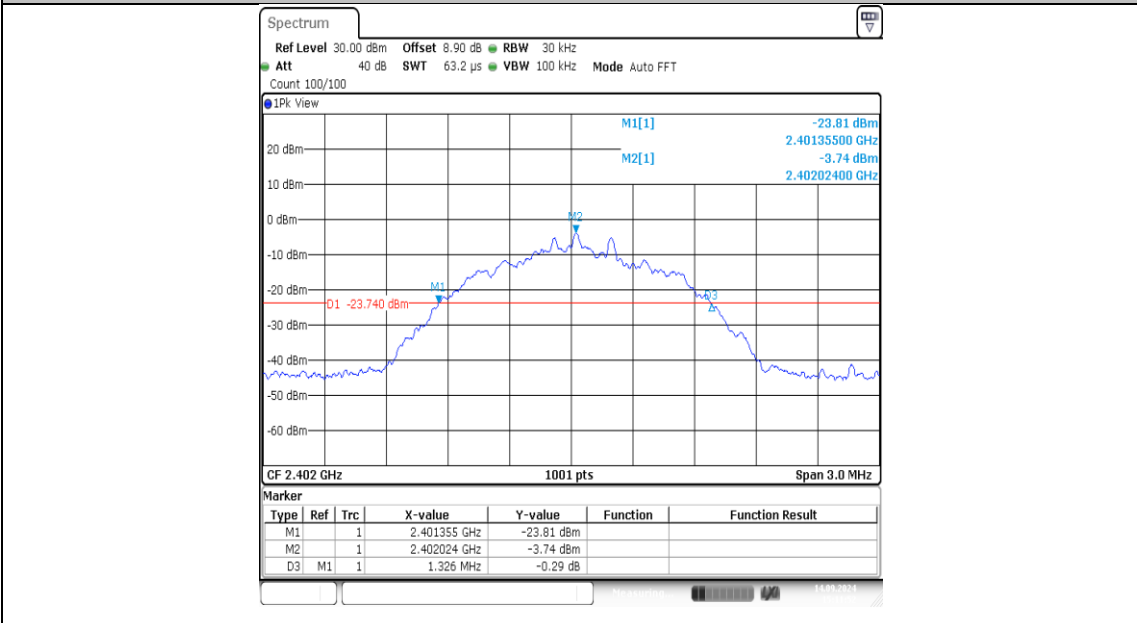
DH5-Ant1-2402



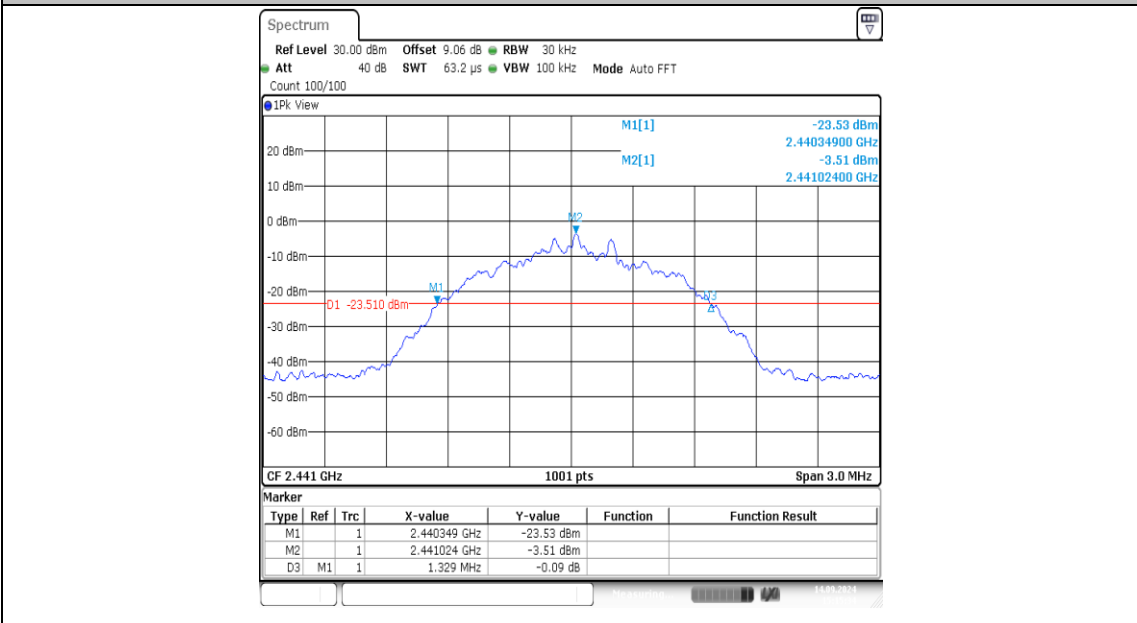
DH5-Ant1-2441



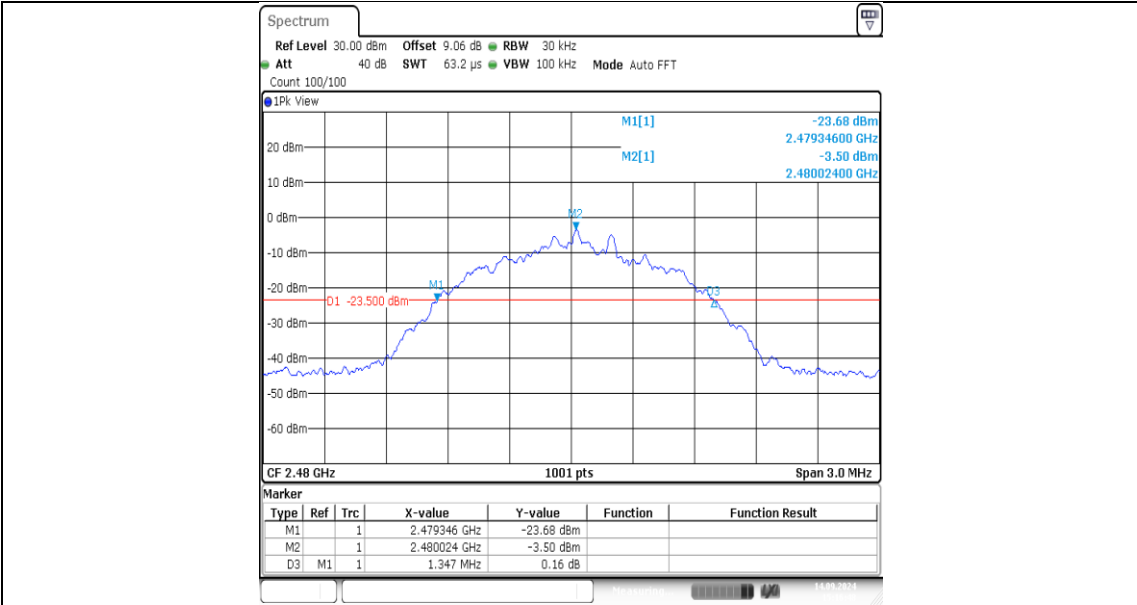
DH5-Ant1-2480



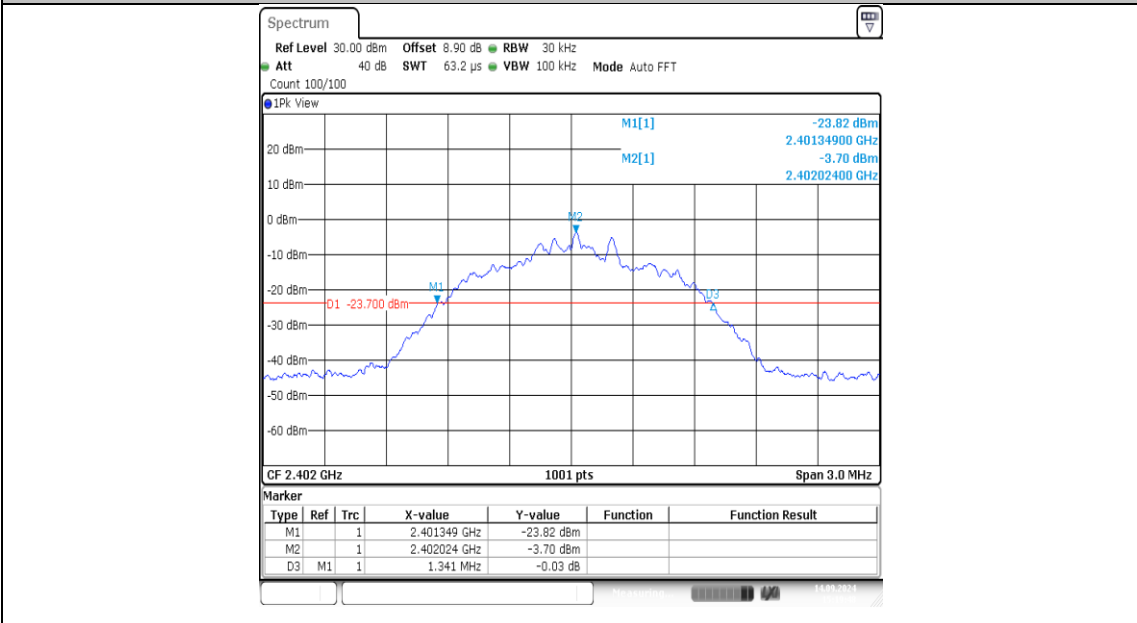
2DH5-Ant1-2402



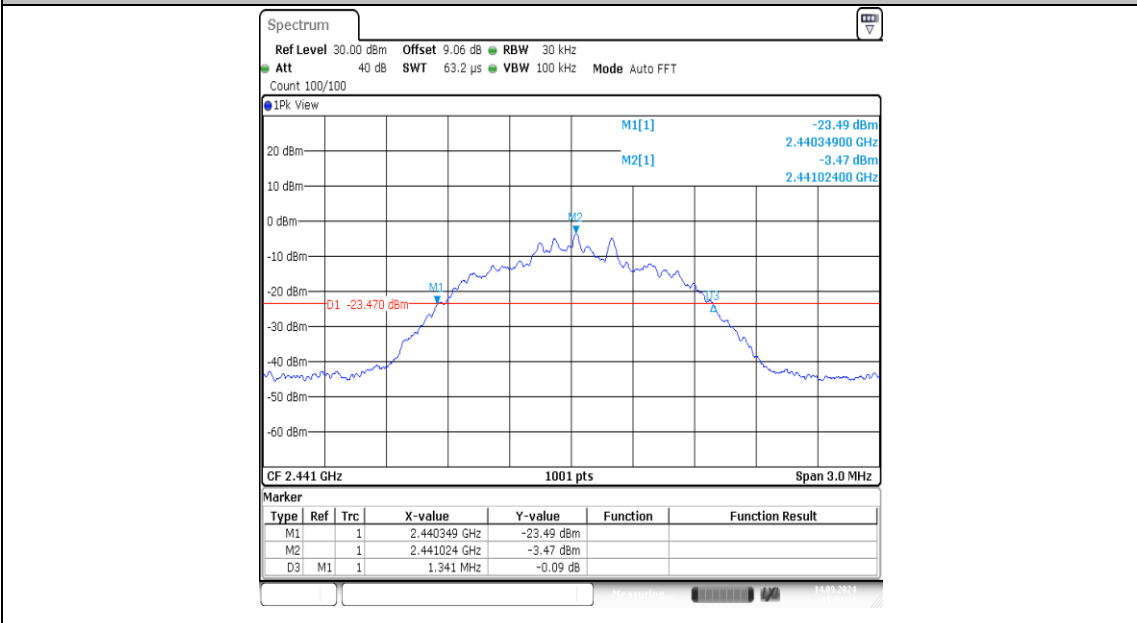
2DH5-Ant1-2441



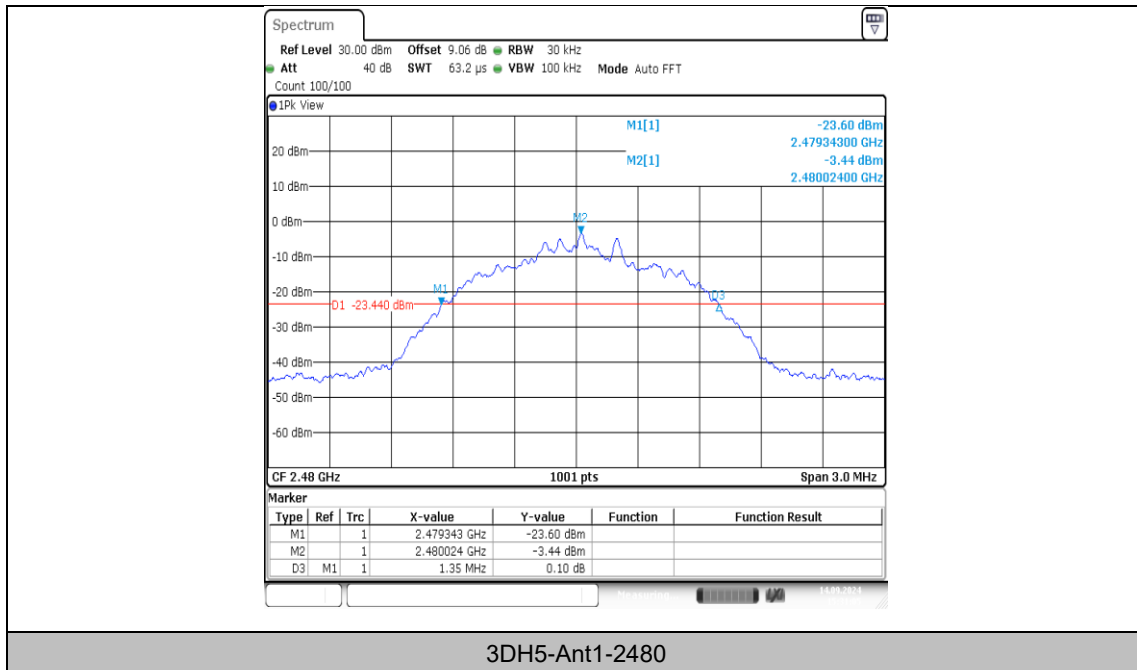
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

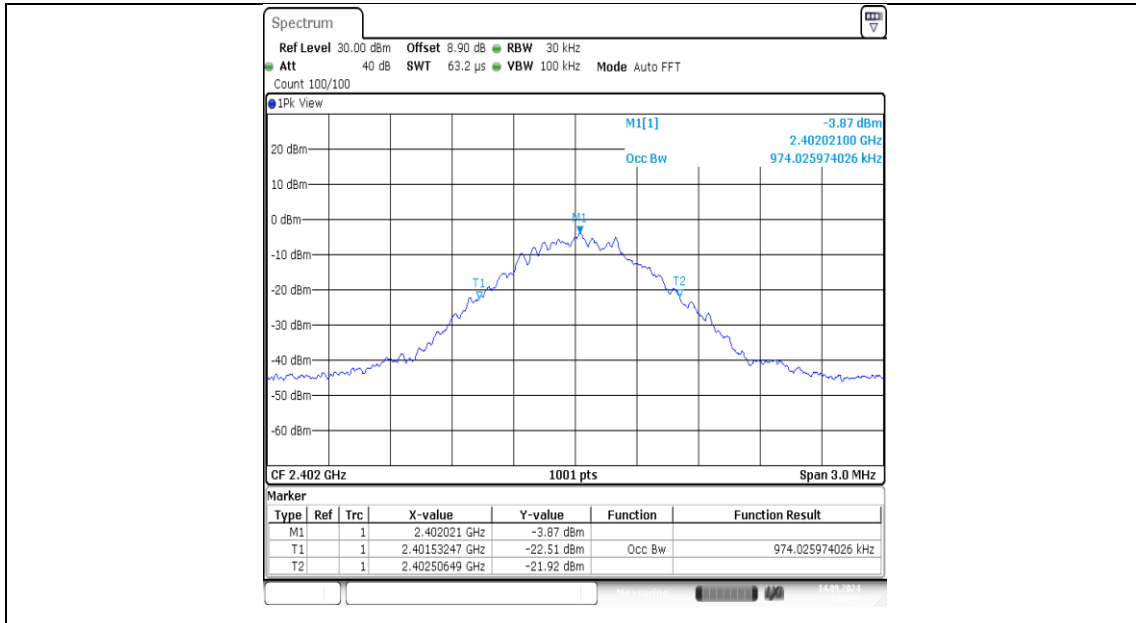


Appendix B: Occupied Channel Bandwidth

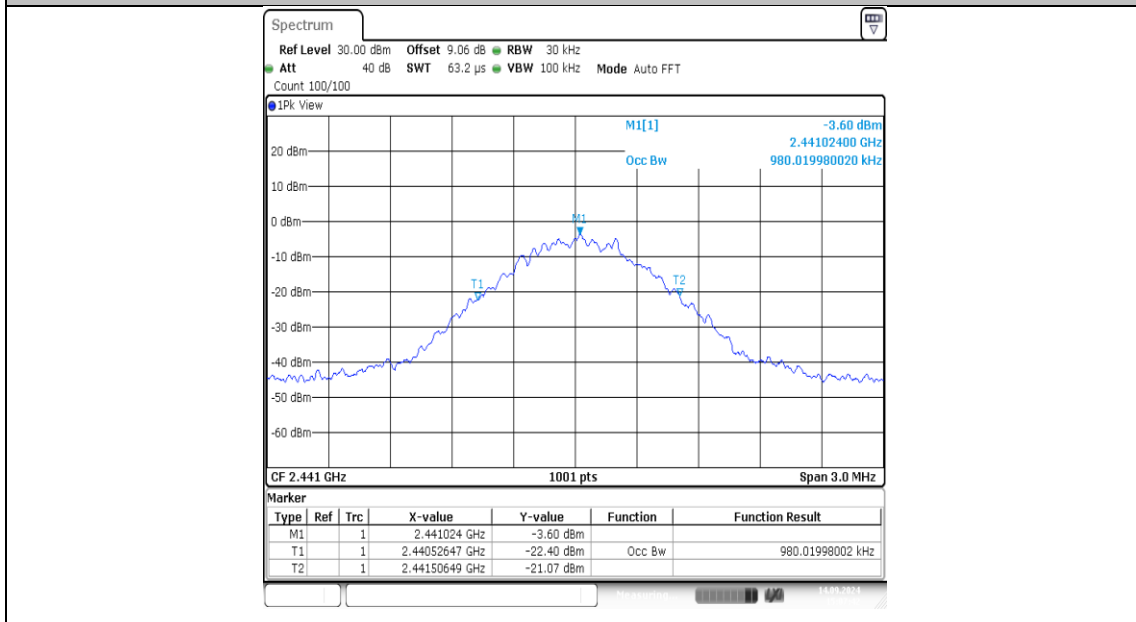
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.974	2401.5325	2402.5065	---	---
DH5	Ant1	2441	0.98	2440.5265	2441.5065	---	---
DH5	Ant1	2480	0.992	2479.5235	2480.5155	---	---
2DH5	Ant1	2402	1.244	2401.4006	2402.6444	---	---
2DH5	Ant1	2441	1.247	2440.3976	2441.6444	---	---
2DH5	Ant1	2480	1.262	2479.3916	2480.6533	---	---
3DH5	Ant1	2402	1.229	2401.4066	2402.6354	---	---
3DH5	Ant1	2441	1.235	2440.4066	2441.6414	---	---
3DH5	Ant1	2480	1.247	2479.3976	2480.6444	---	---

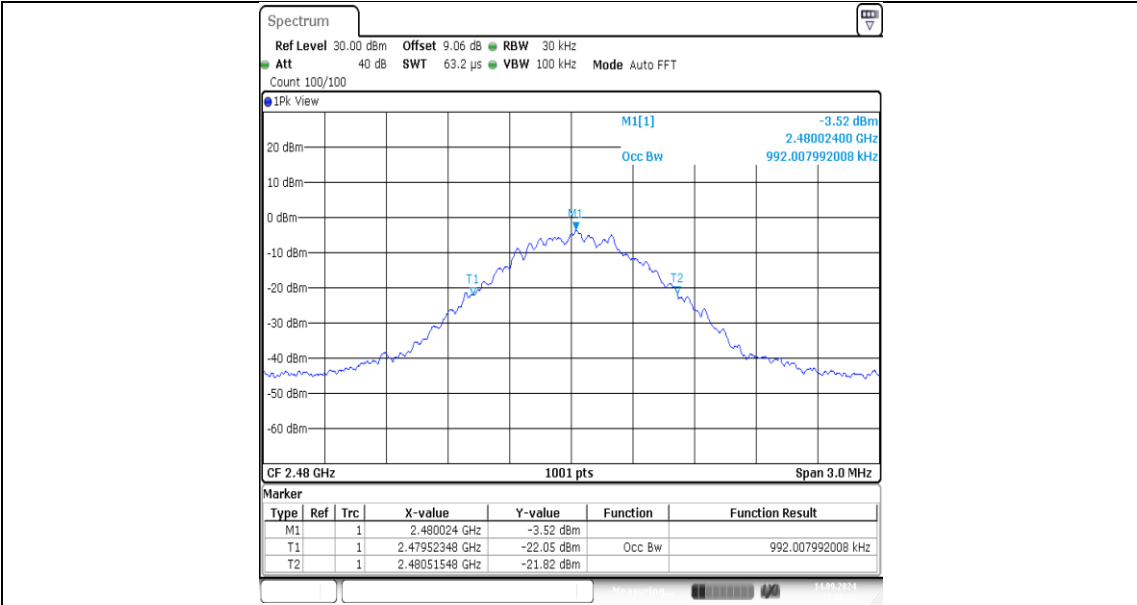
Test Graphs



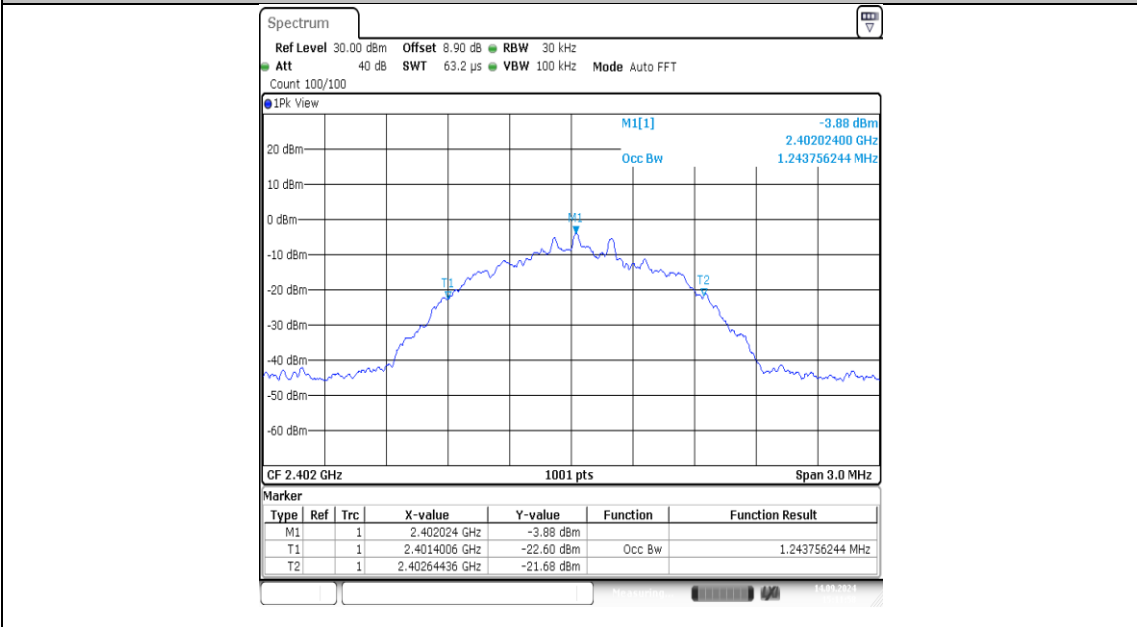
DH5-Ant1-2402



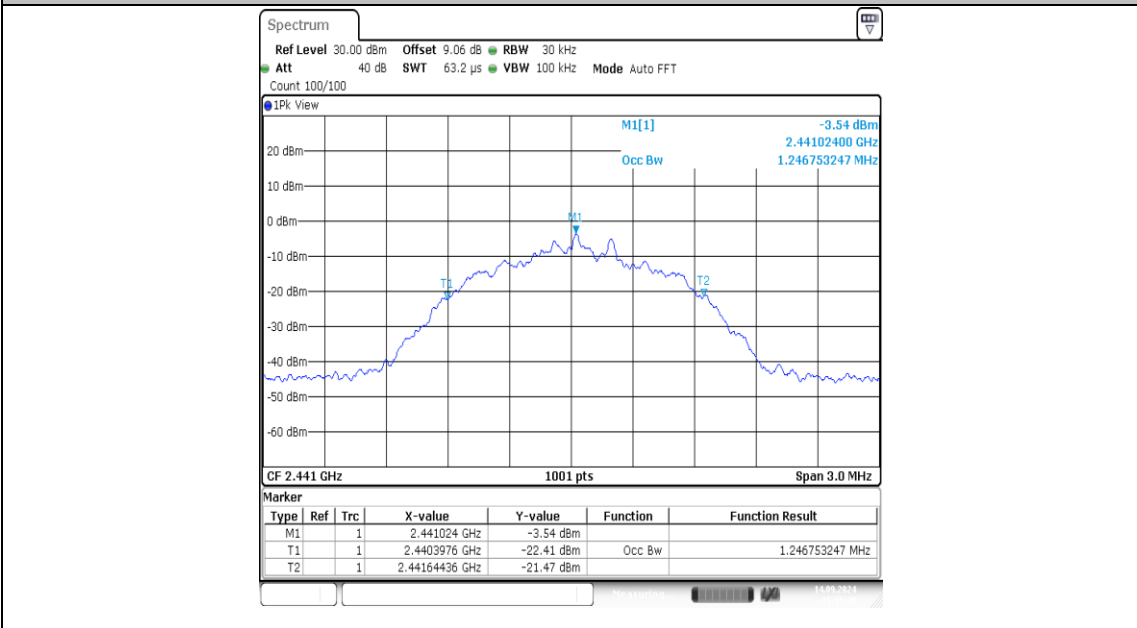
DH5-Ant1-2441



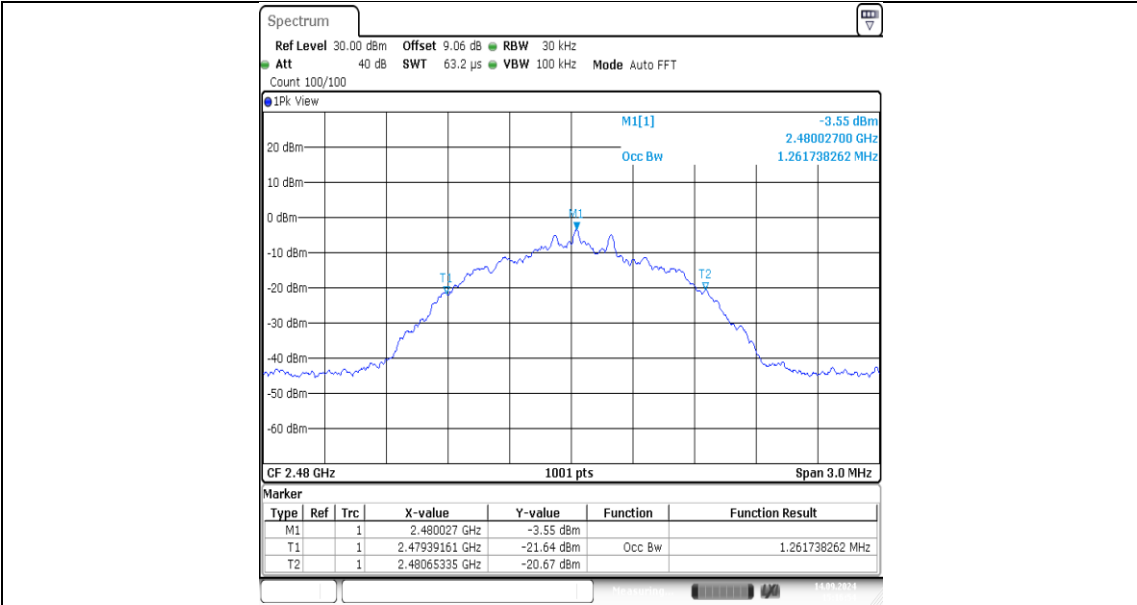
DH5-Ant1-2480



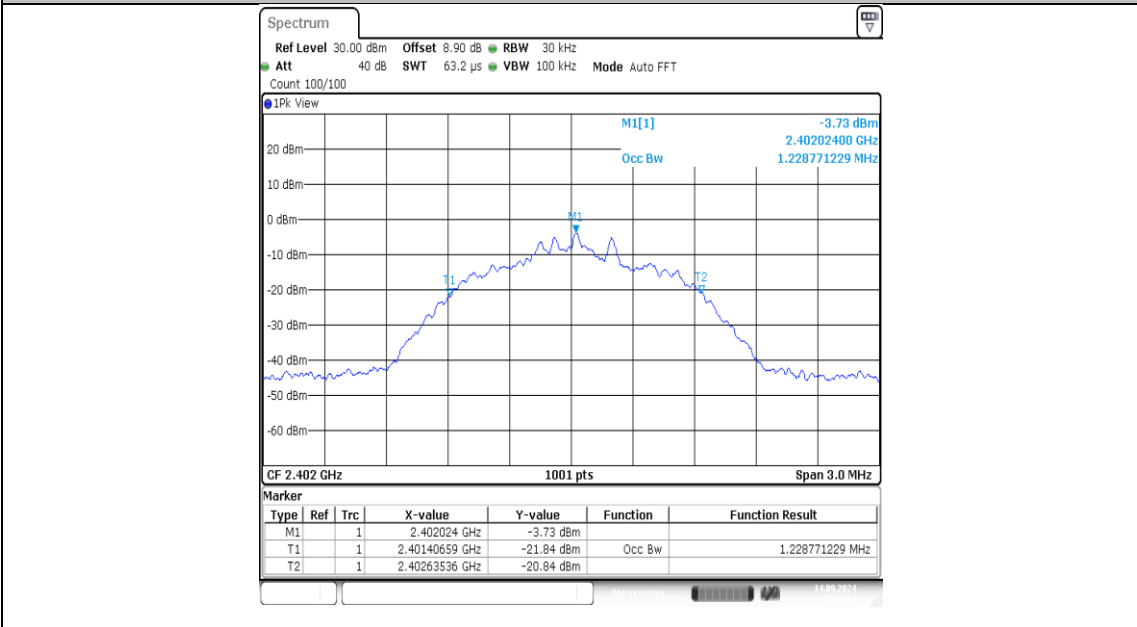
2DH5-Ant1-2402



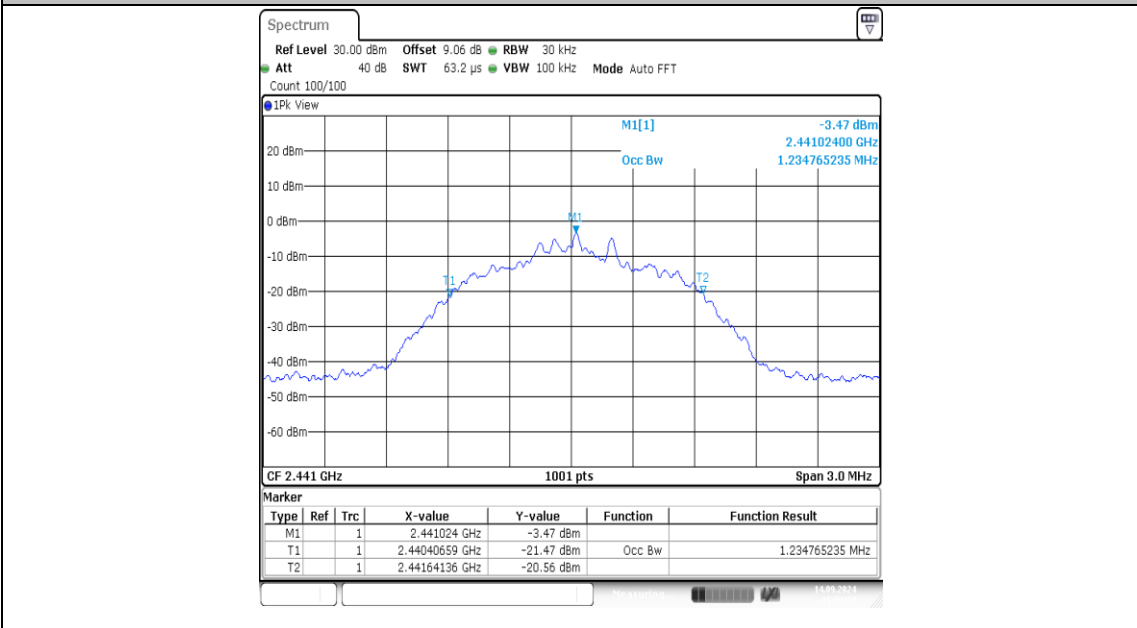
2DH5-Ant1-2441



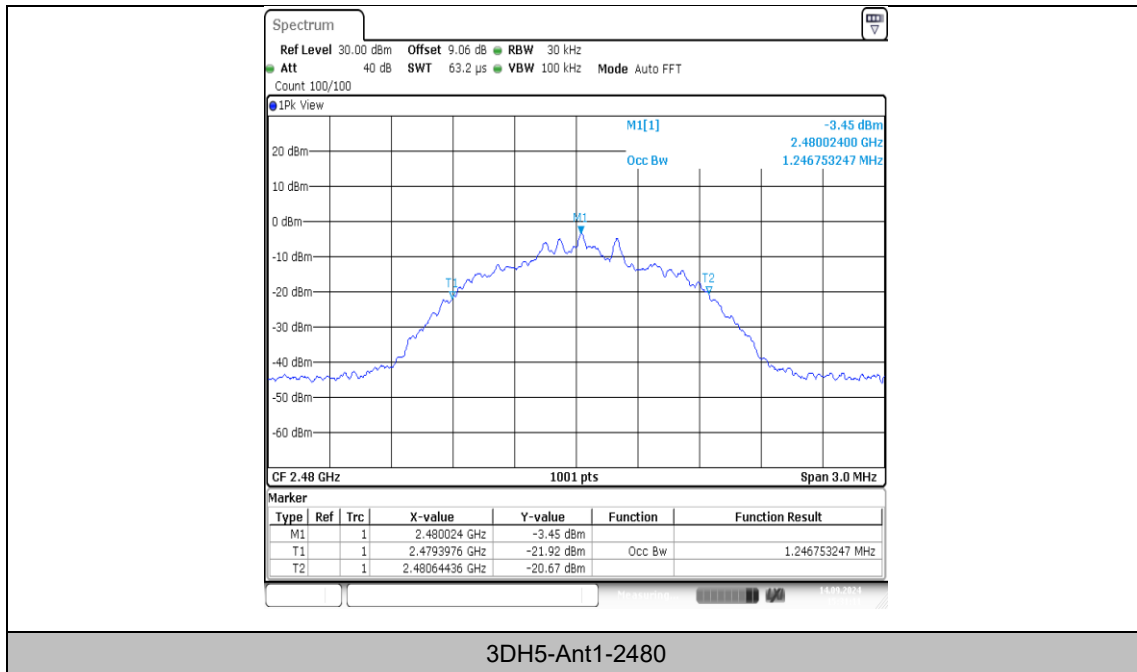
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

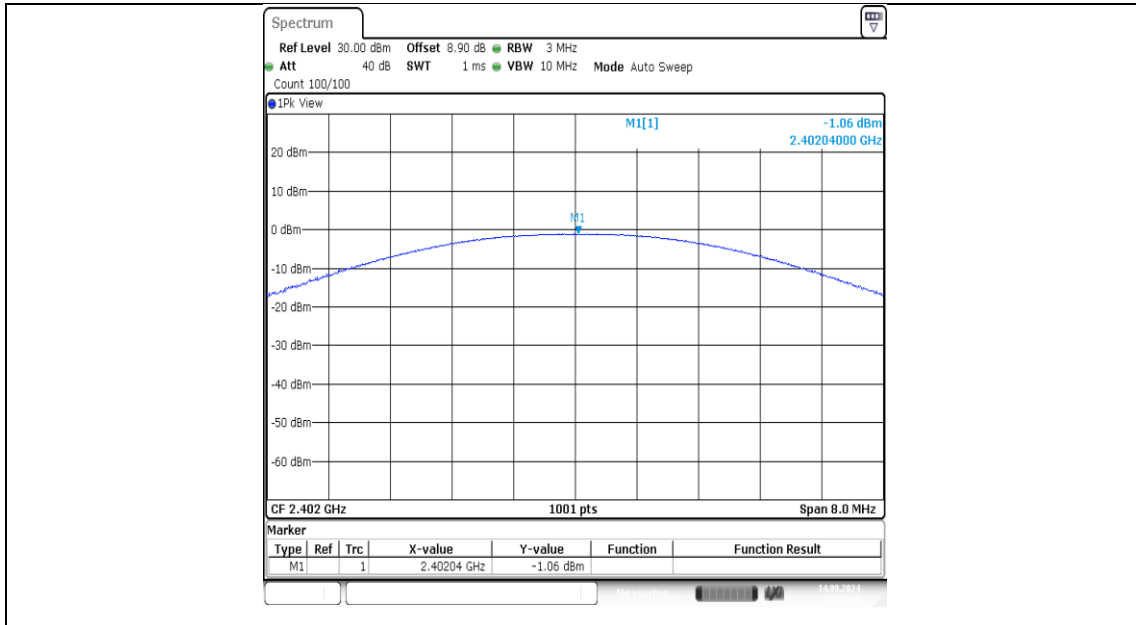


Appendix C: Maximum peak conducted output power

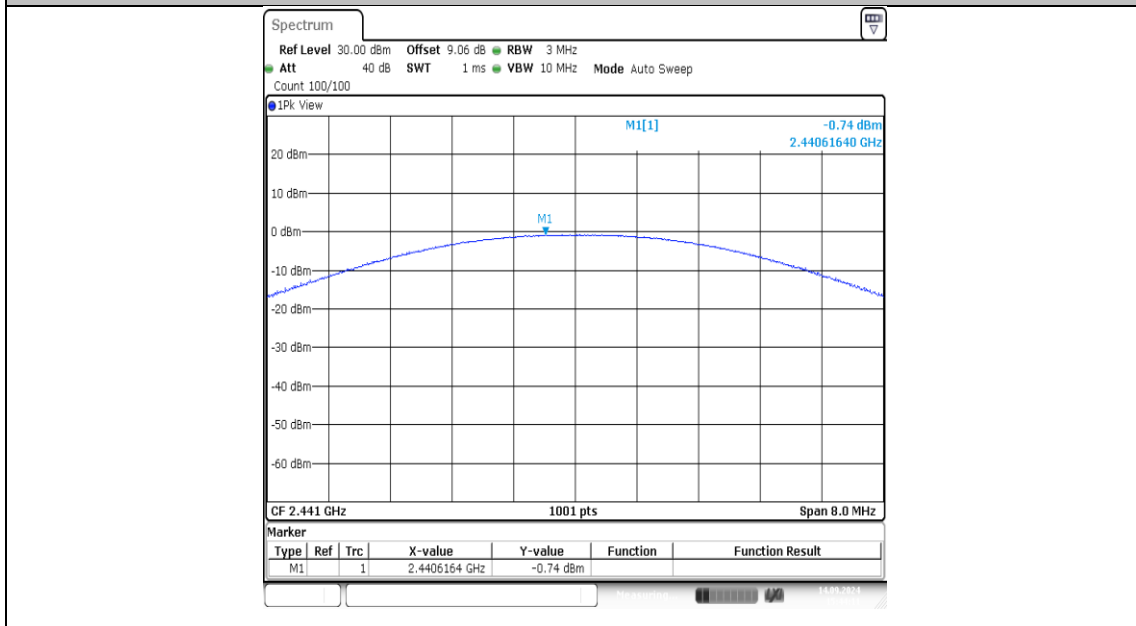
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-1.06	≤20.97	PASS
DH5	Ant1	2441	-0.74	≤20.97	PASS
DH5	Ant1	2480	-0.61	≤20.97	PASS
2DH5	Ant1	2402	-1.15	≤20.97	PASS
2DH5	Ant1	2441	-0.84	≤20.97	PASS
2DH5	Ant1	2480	-0.67	≤20.97	PASS
3DH5	Ant1	2402	-1.07	≤20.97	PASS
3DH5	Ant1	2441	-0.87	≤20.97	PASS
3DH5	Ant1	2480	-0.74	≤20.97	PASS

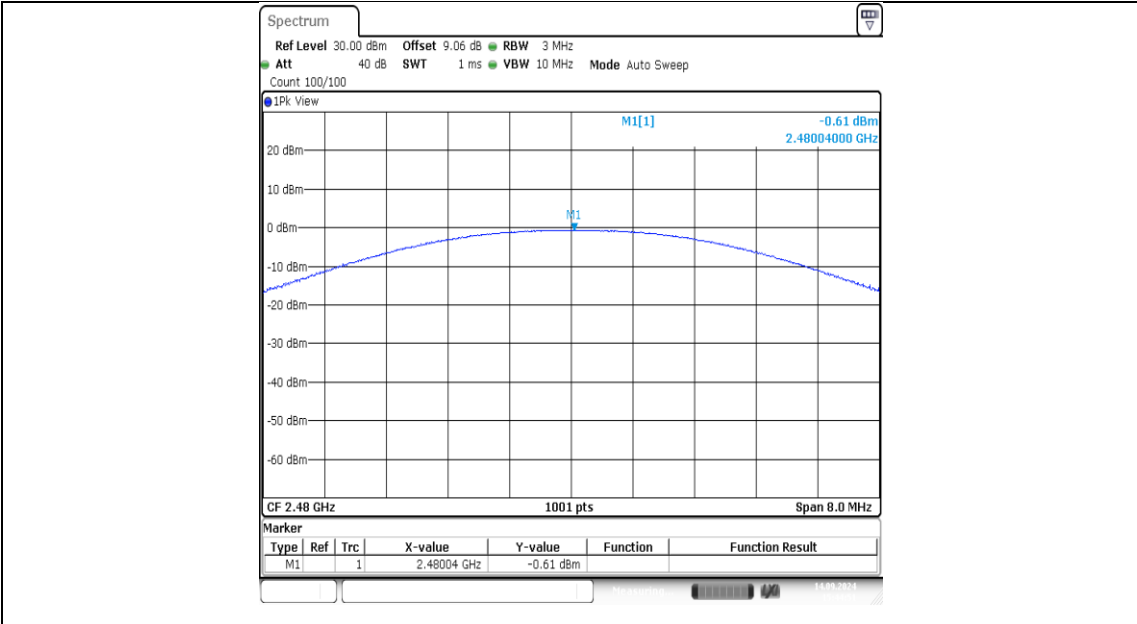
Test Graphs



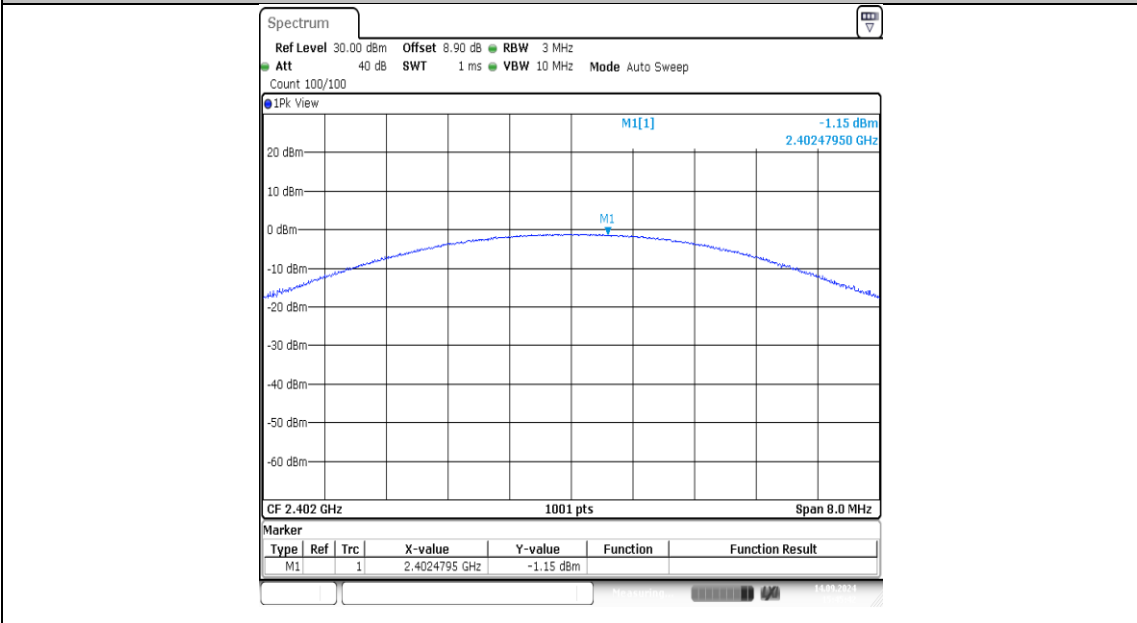
DH5-Ant1-2402-PASS



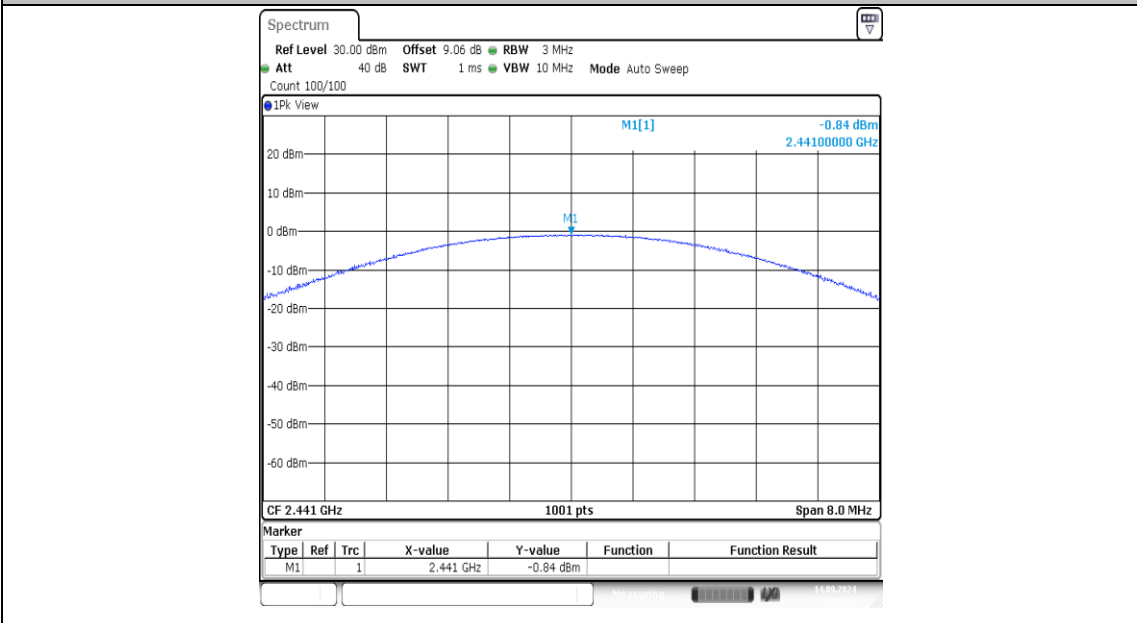
DH5-Ant1-2441-PASS



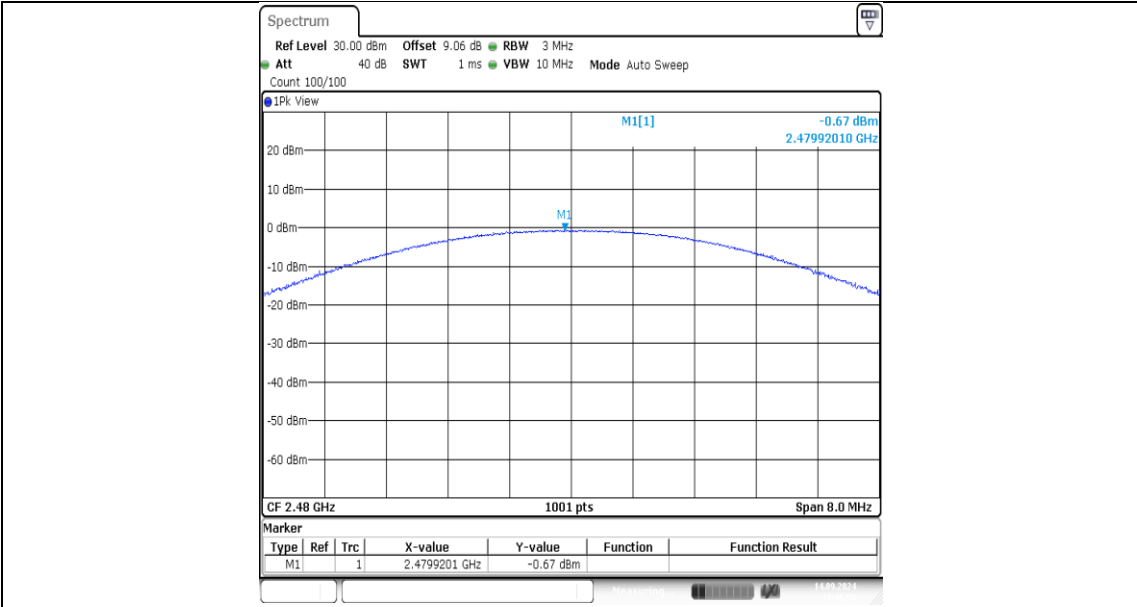
DH5-Ant1-2480-PASS



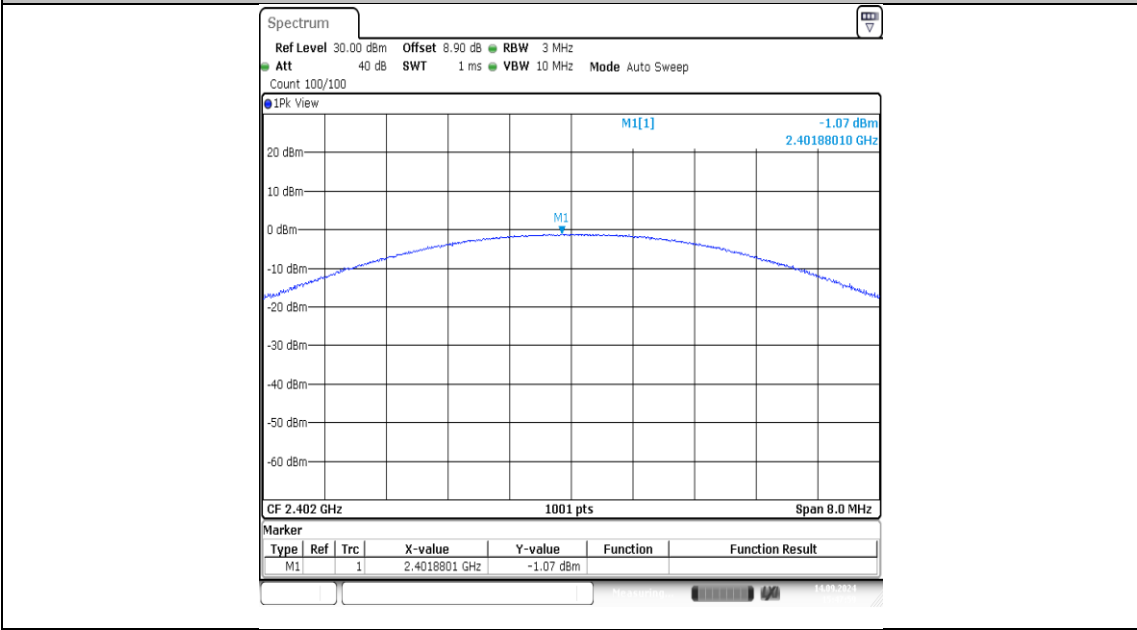
2DH5-Ant1-2402-PASS



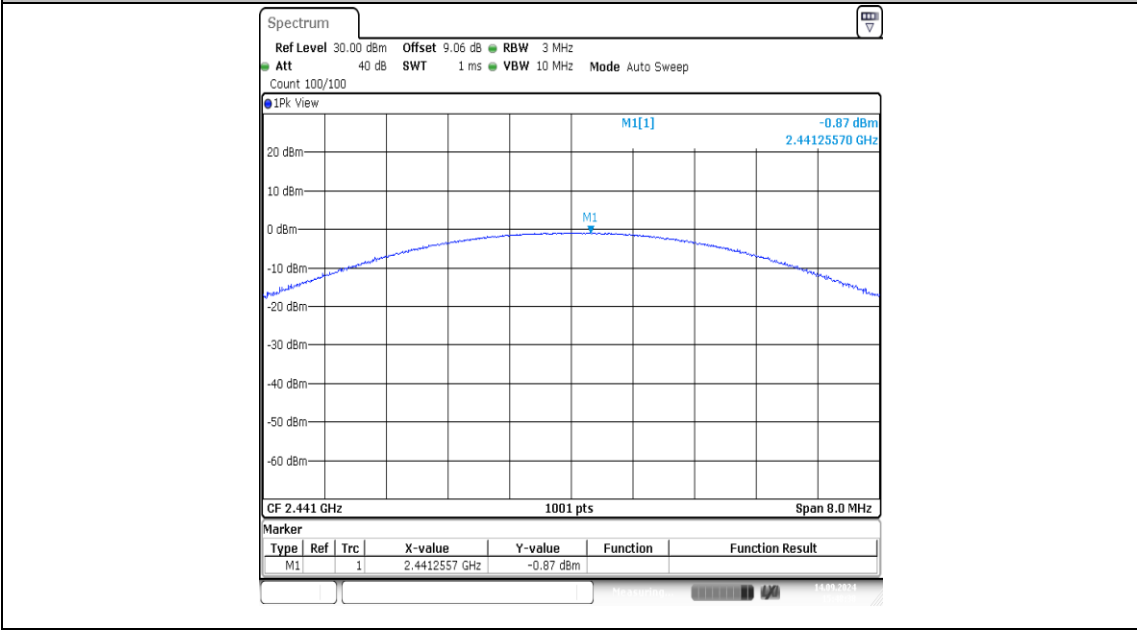
2DH5-Ant1-2441-PASS



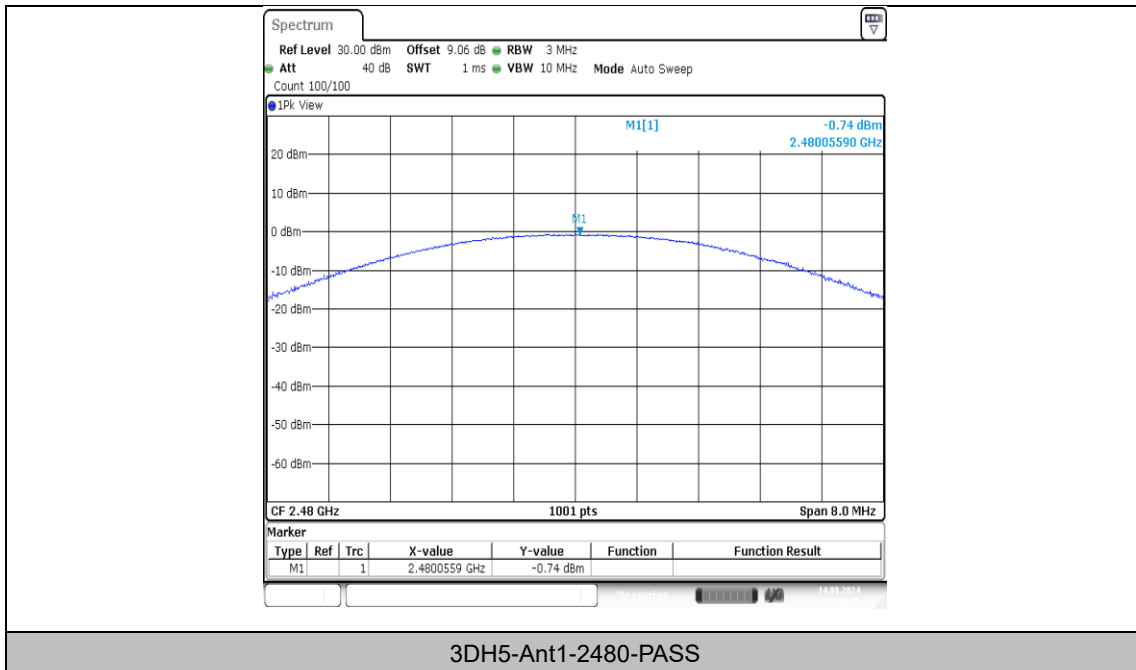
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS

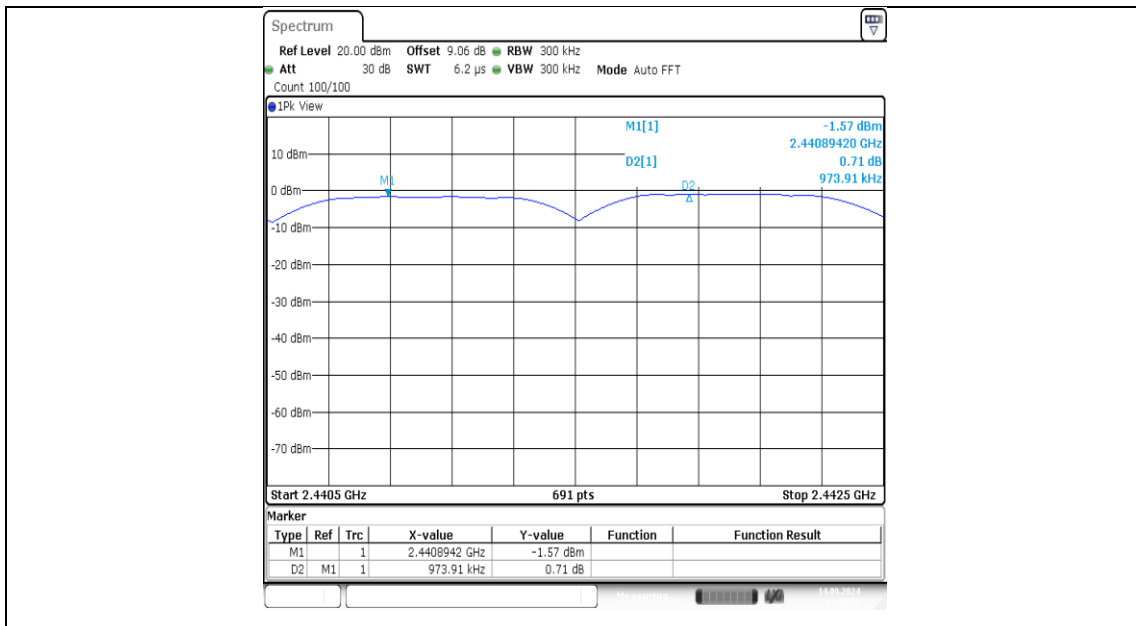


Appendix D: Carrier frequency separation

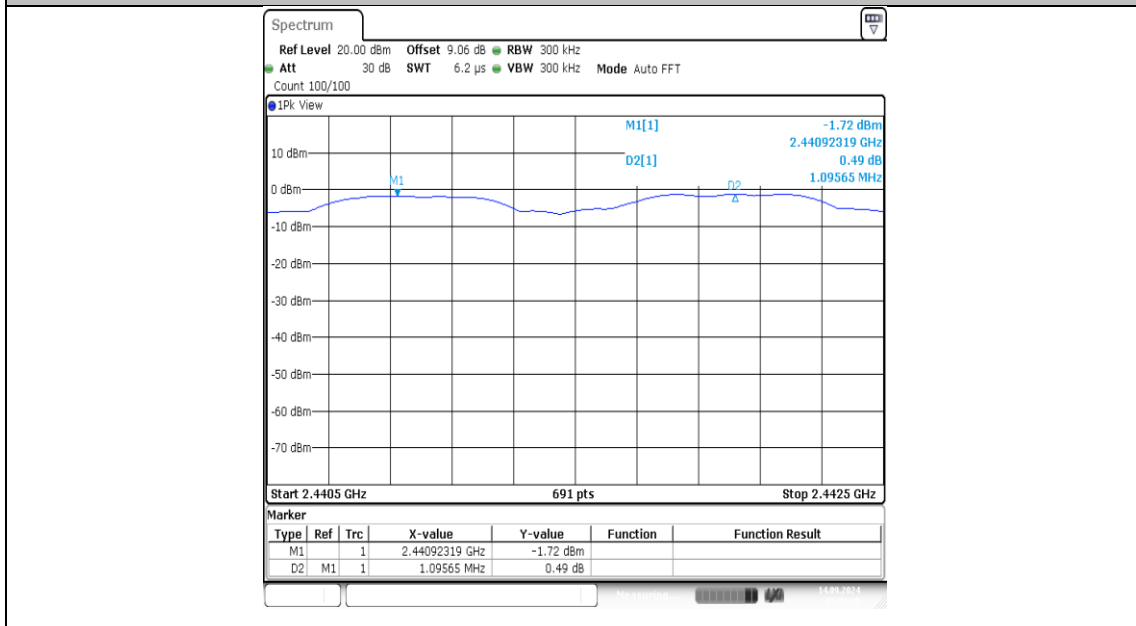
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.974	≥ 0.740	PASS
2DH5	Ant1	Hop	1.096	≥ 0.900	PASS
3DH5	Ant1	Hop	0.922	≥ 0.900	PASS

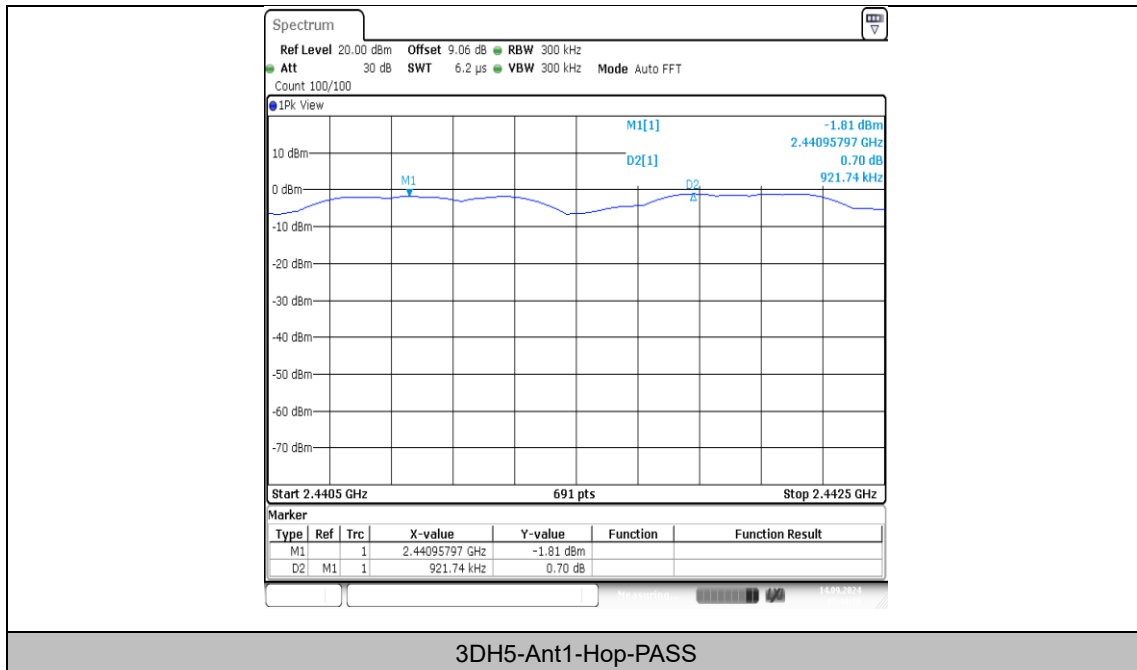
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

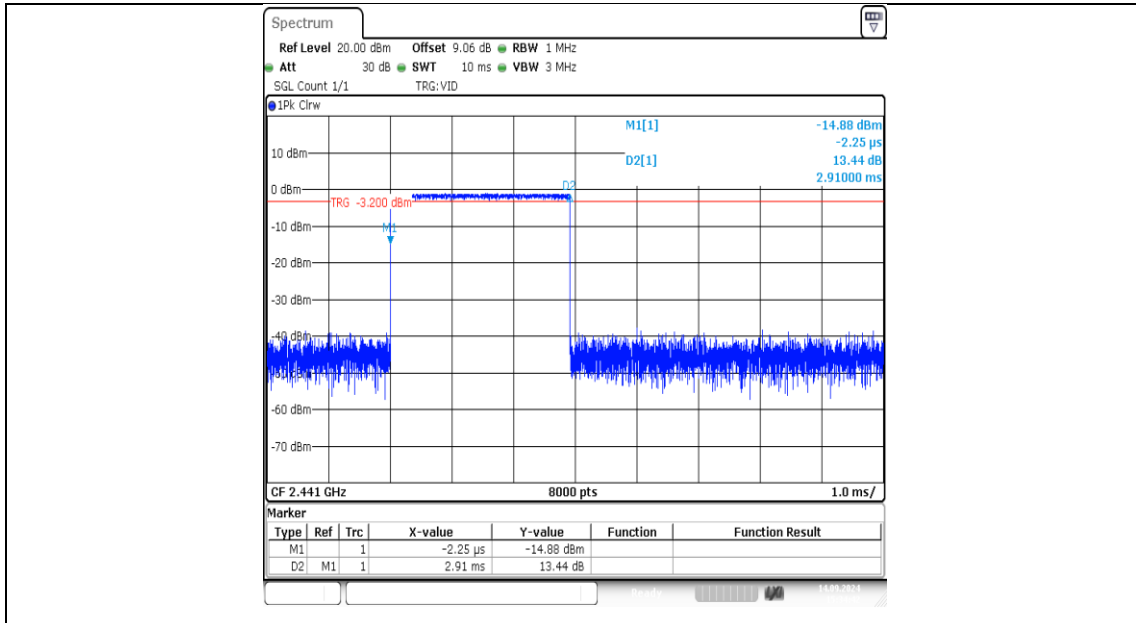


Appendix E: Time of occupancy

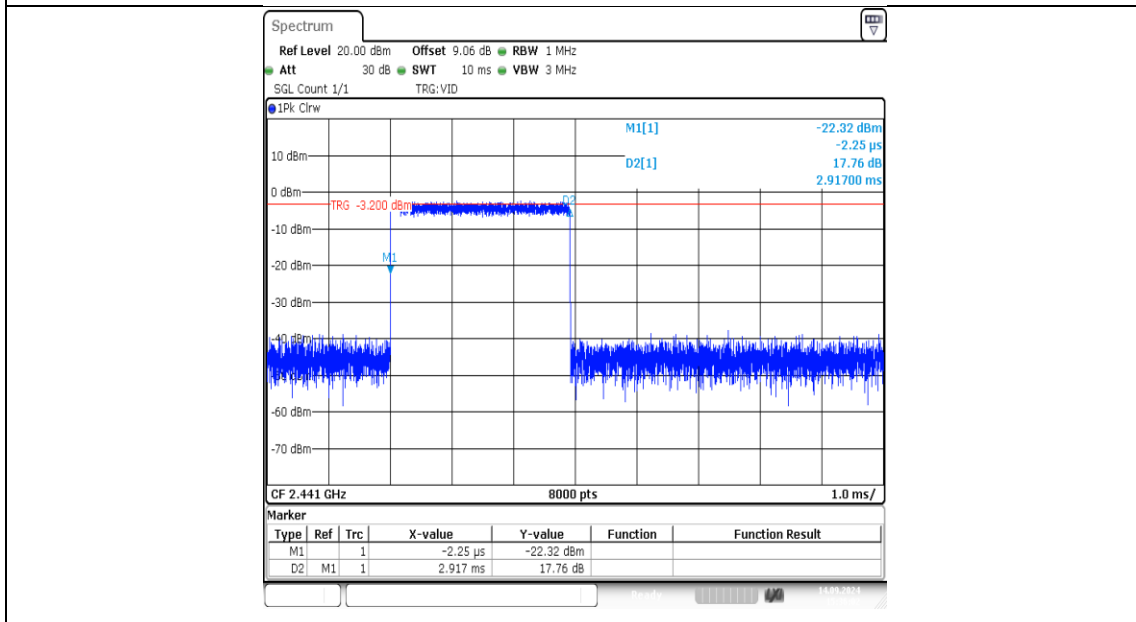
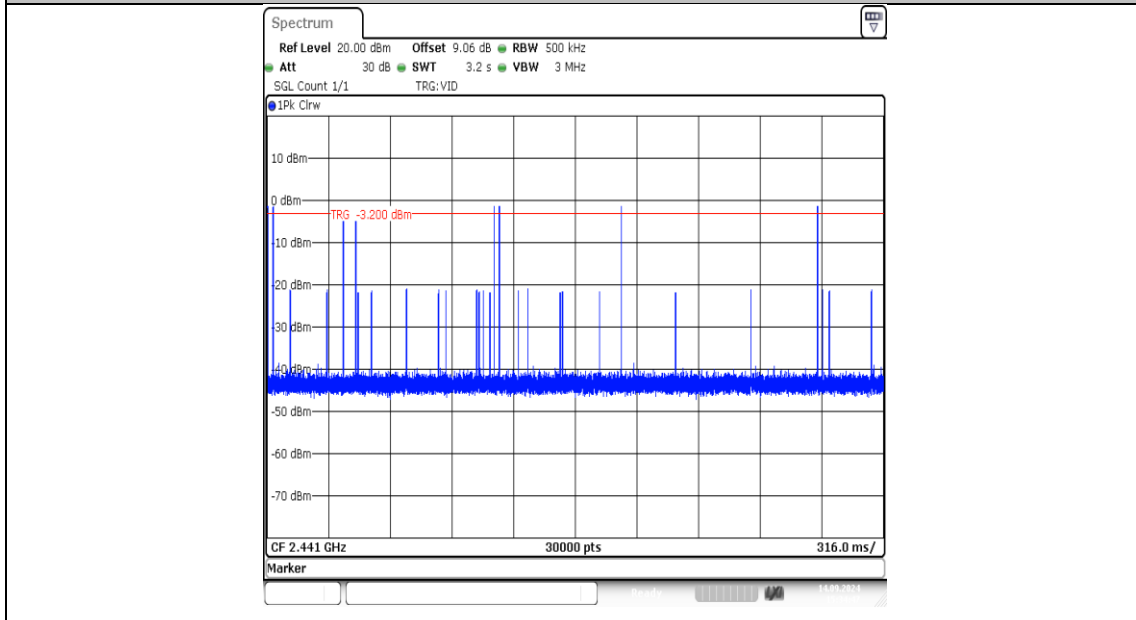
Test Result

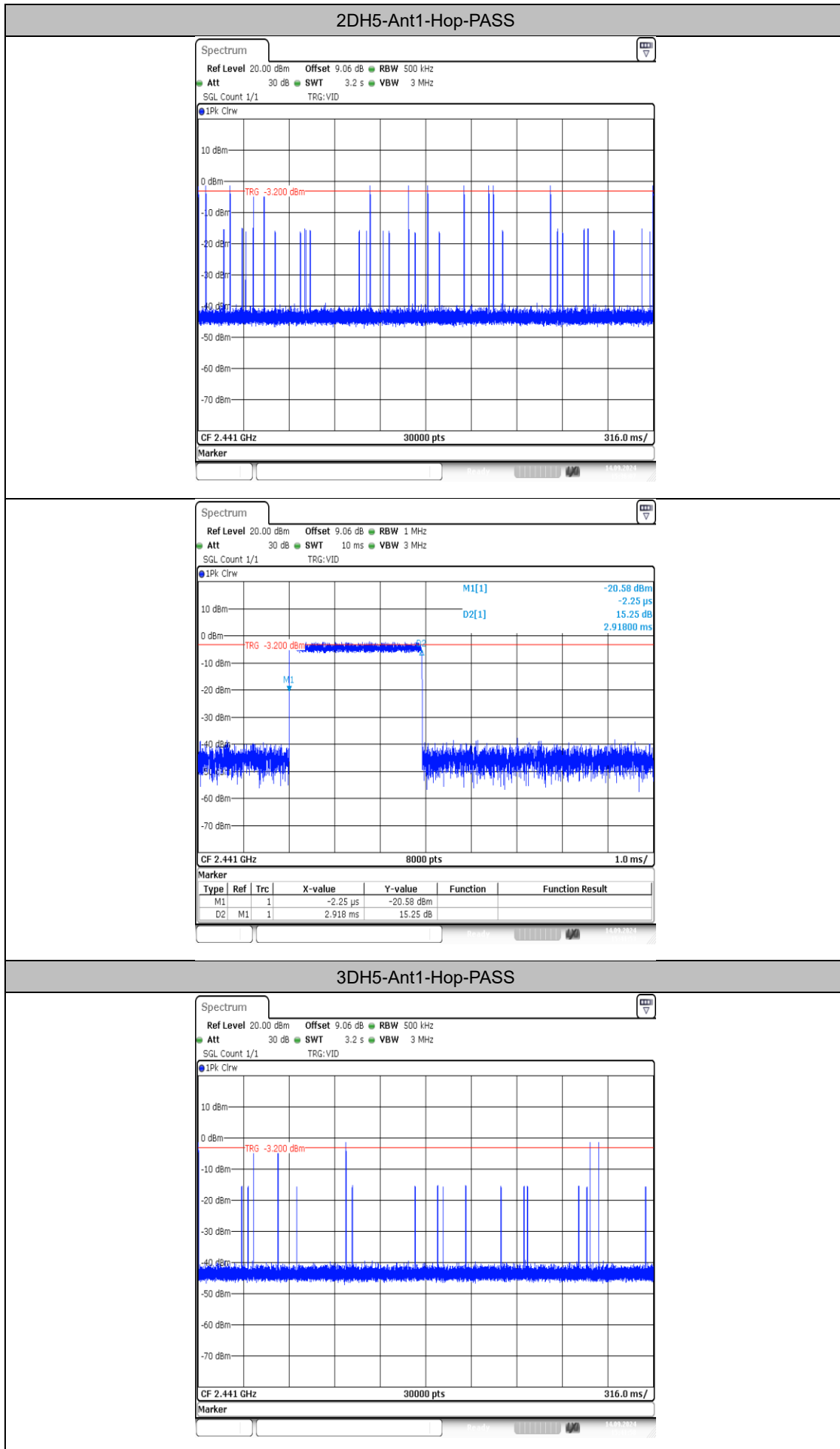
Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.910	80	0.233	≤0.4	PASS
2DH5	Ant1	Hop	2.917	120	0.35	≤0.4	PASS
3DH5	Ant1	Hop	2.918	60	0.175	≤0.4	PASS

Test Graphs



DH5-Ant1-Hop-PASS



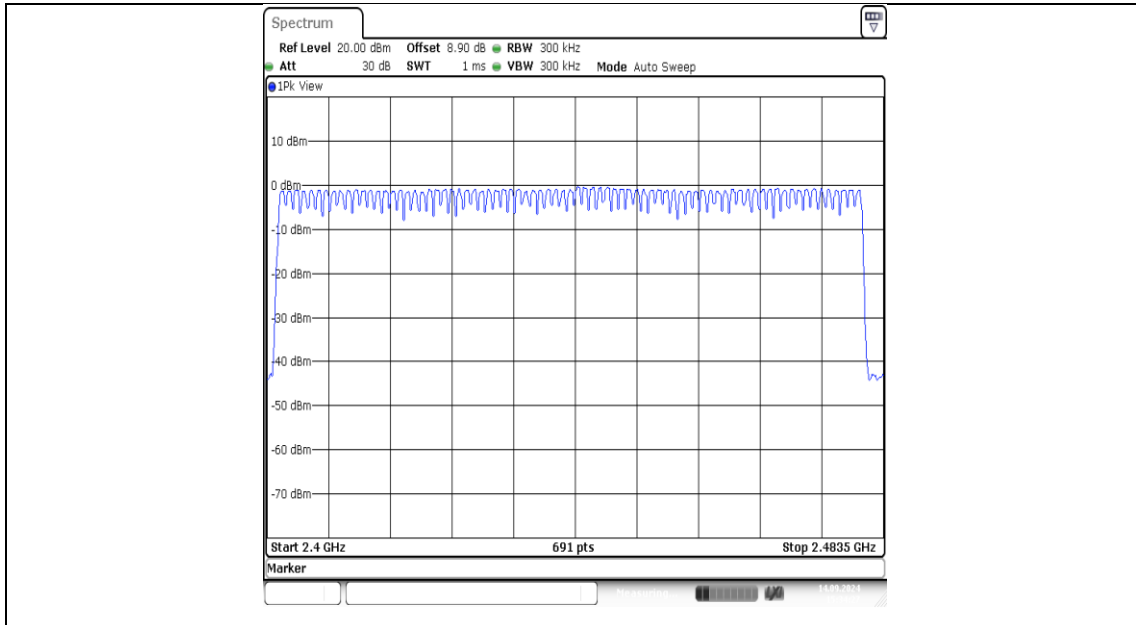


Appendix F: Number of hopping channels

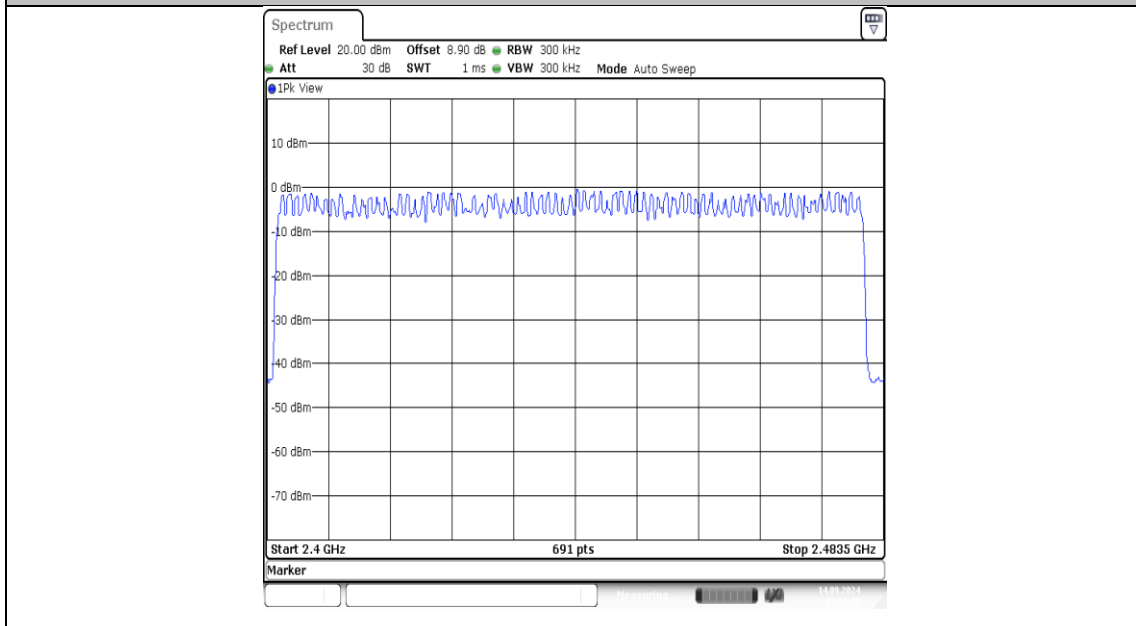
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

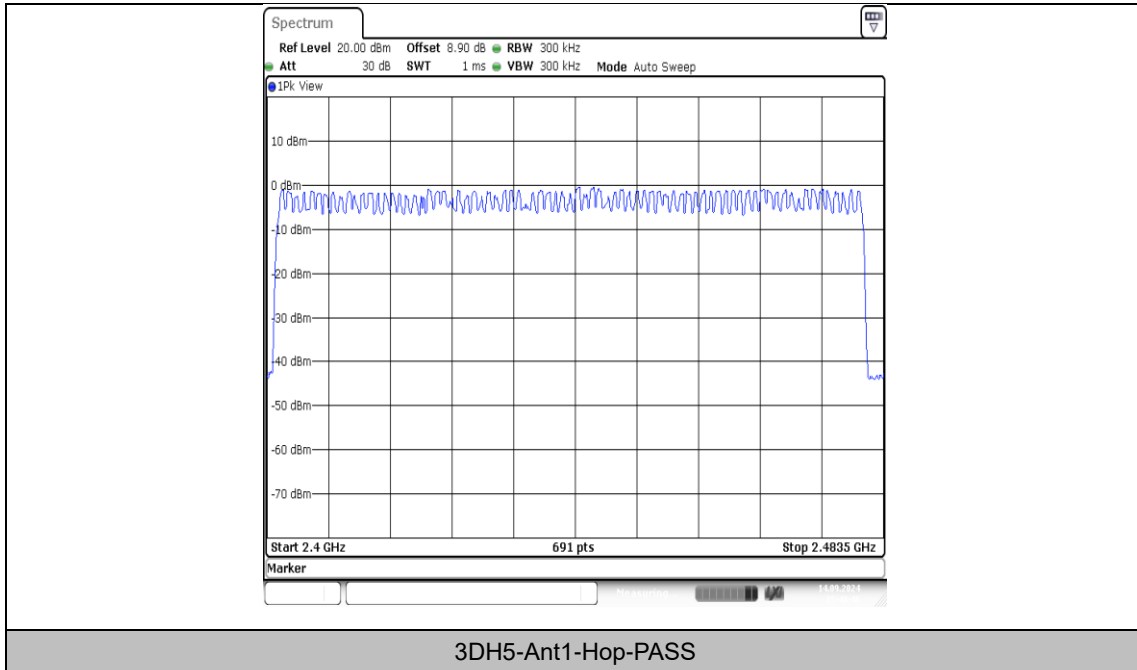
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

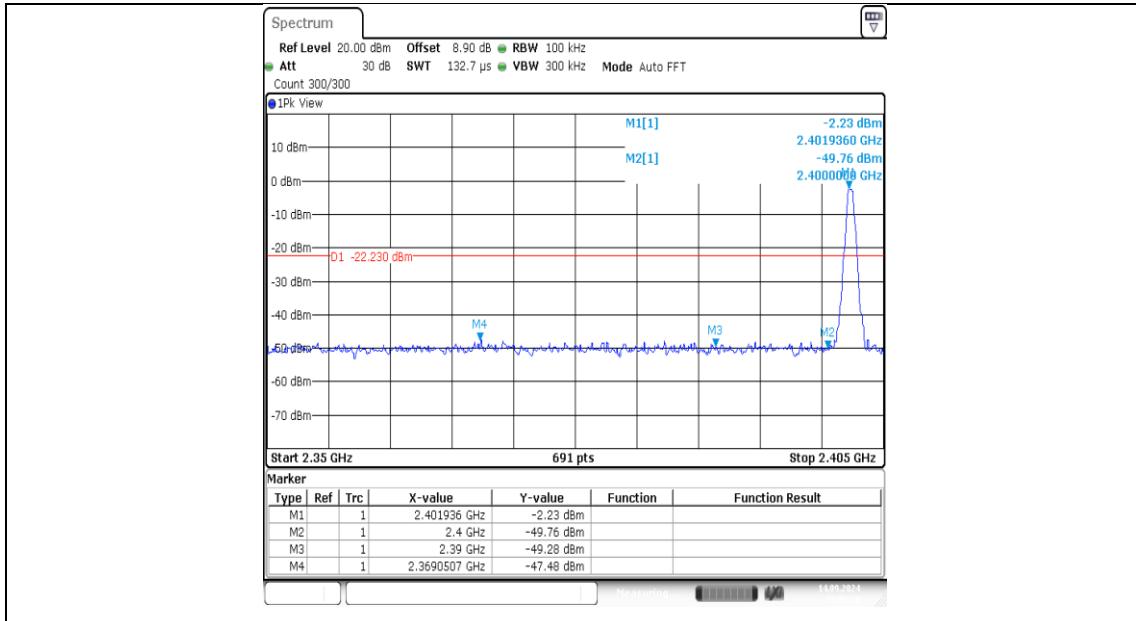


Appendix G: Band edge measurements

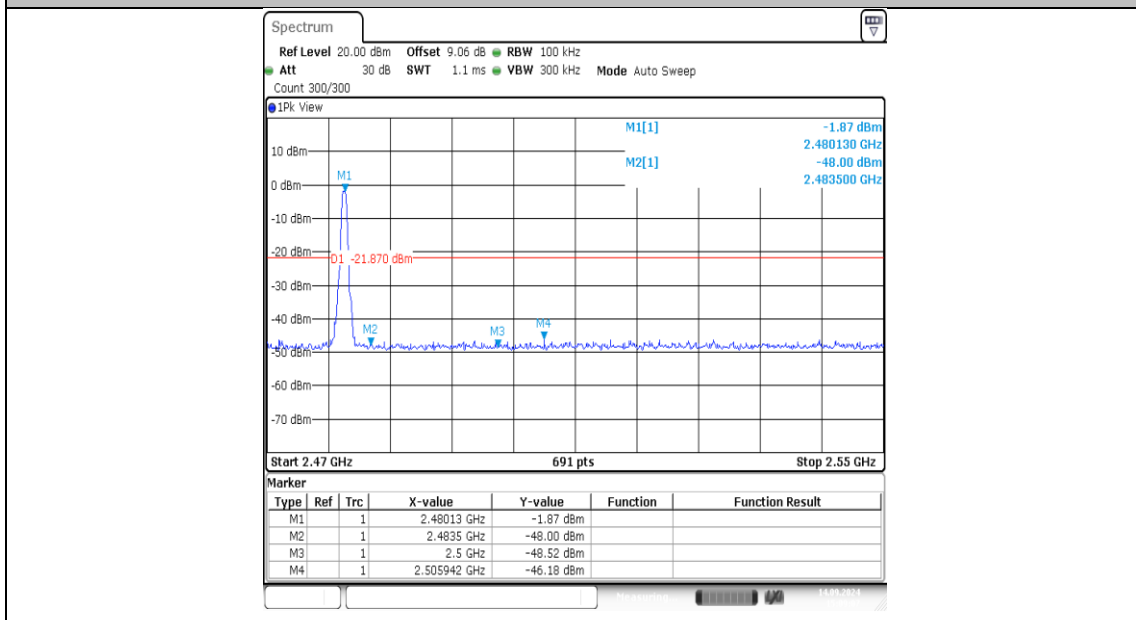
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.23	-47.48	≤-22.23	PASS
DH5	Ant1	High	2480	-1.87	-46.18	≤-21.87	PASS
DH5	Ant1	Low	Hop_2402	-2.76	-47.59	≤-22.76	PASS
DH5	Ant1	High	Hop_2480	-1.85	-45.57	≤-21.85	PASS
2DH5	Ant1	Low	2402	-3.02	-47.53	≤-23.02	PASS
2DH5	Ant1	High	2480	-1.77	-46.64	≤-21.77	PASS
2DH5	Ant1	Low	Hop_2402	-5.83	-46.95	≤-25.83	PASS
2DH5	Ant1	High	Hop_2480	-2.47	-46.08	≤-22.47	PASS
3DH5	Ant1	Low	2402	-2.85	-47.72	≤-22.85	PASS
3DH5	Ant1	High	2480	-1.98	-45.96	≤-21.98	PASS
3DH5	Ant1	Low	Hop_2402	-3.60	-47.49	≤-23.6	PASS
3DH5	Ant1	High	Hop_2480	-2.45	-45.87	≤-22.45	PASS

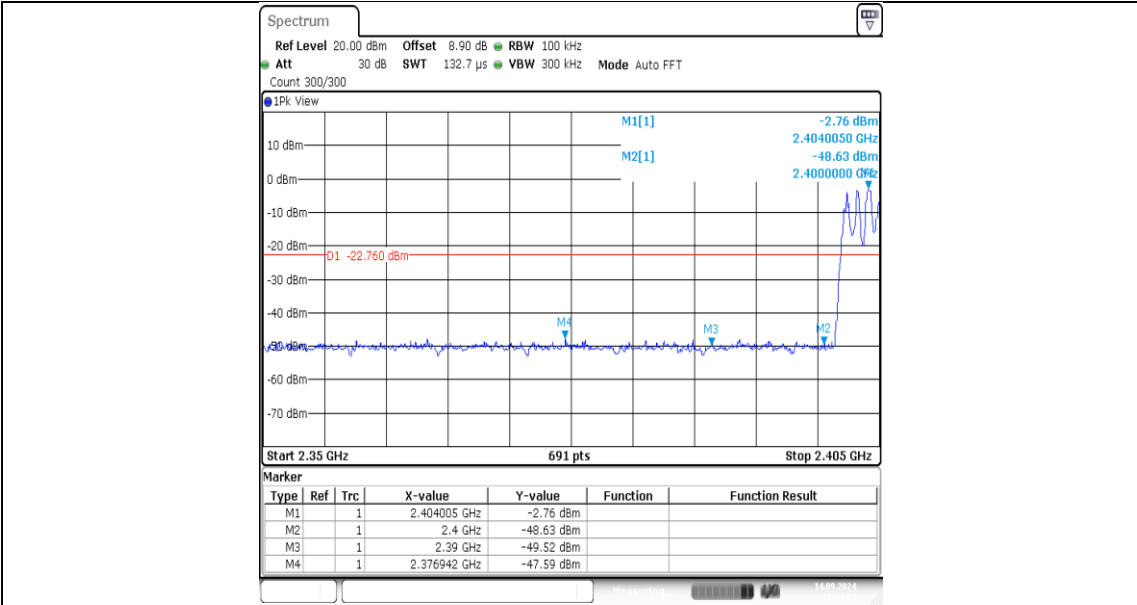
Test Graphs



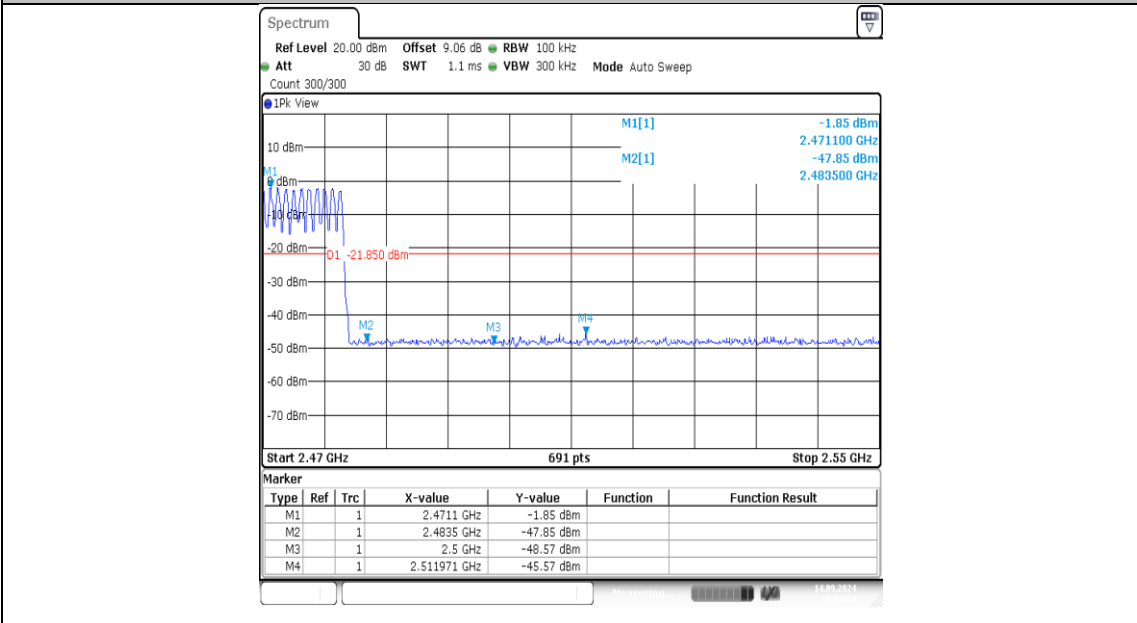
DH5-Ant1-2402-PASS



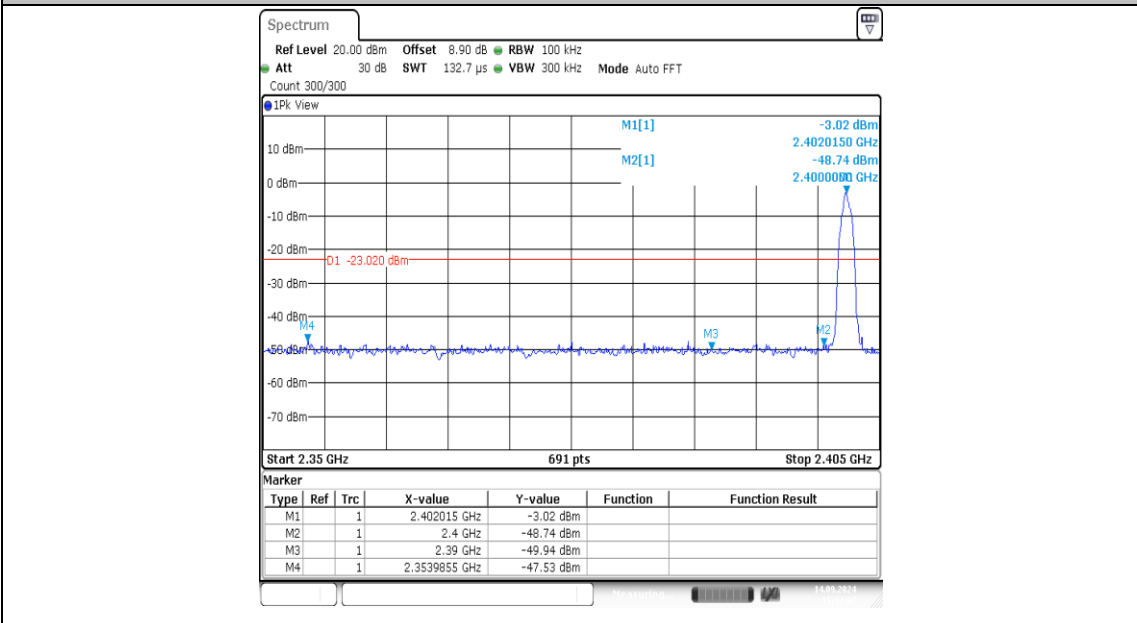
DH5-Ant1-2480-PASS



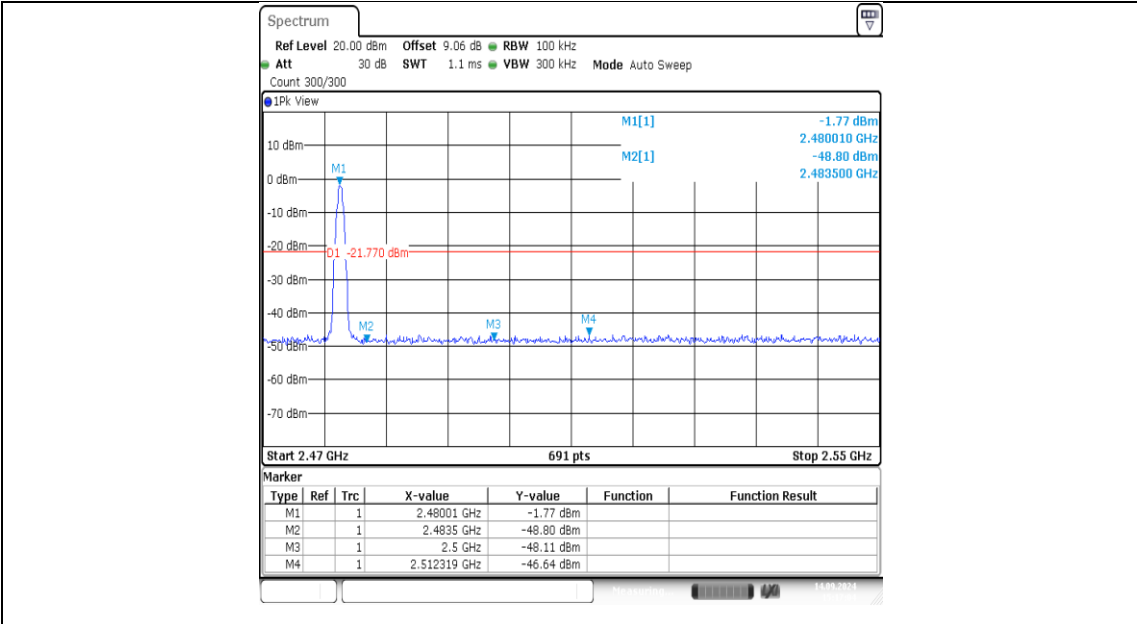
DH5-Ant1-Hop_2402-PASS



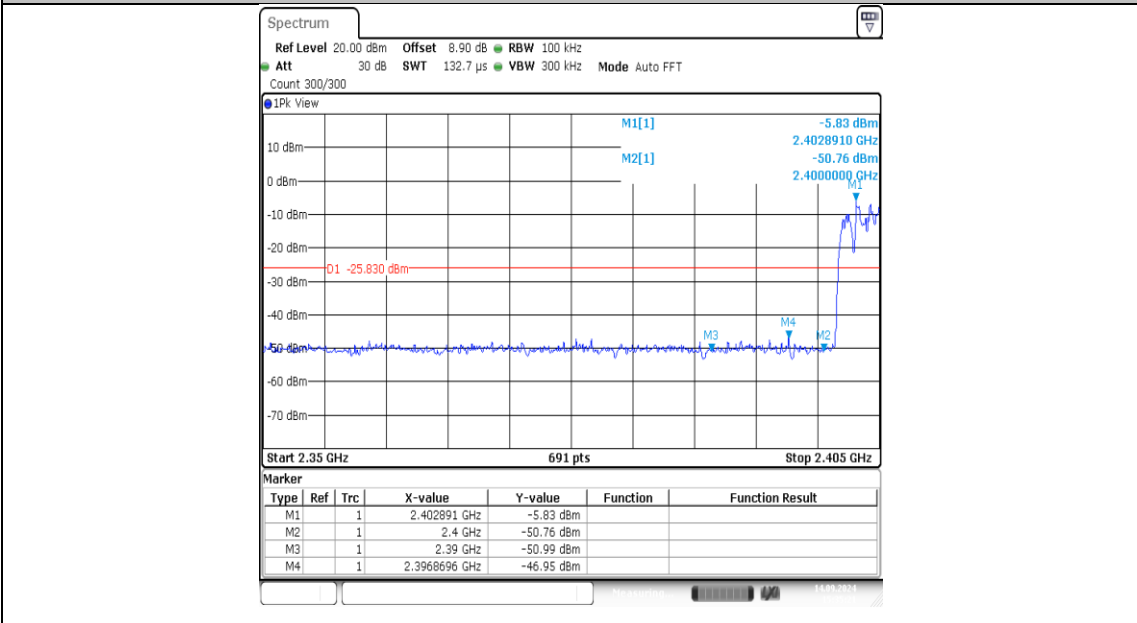
DH5-Ant1-Hop_2480-PASS



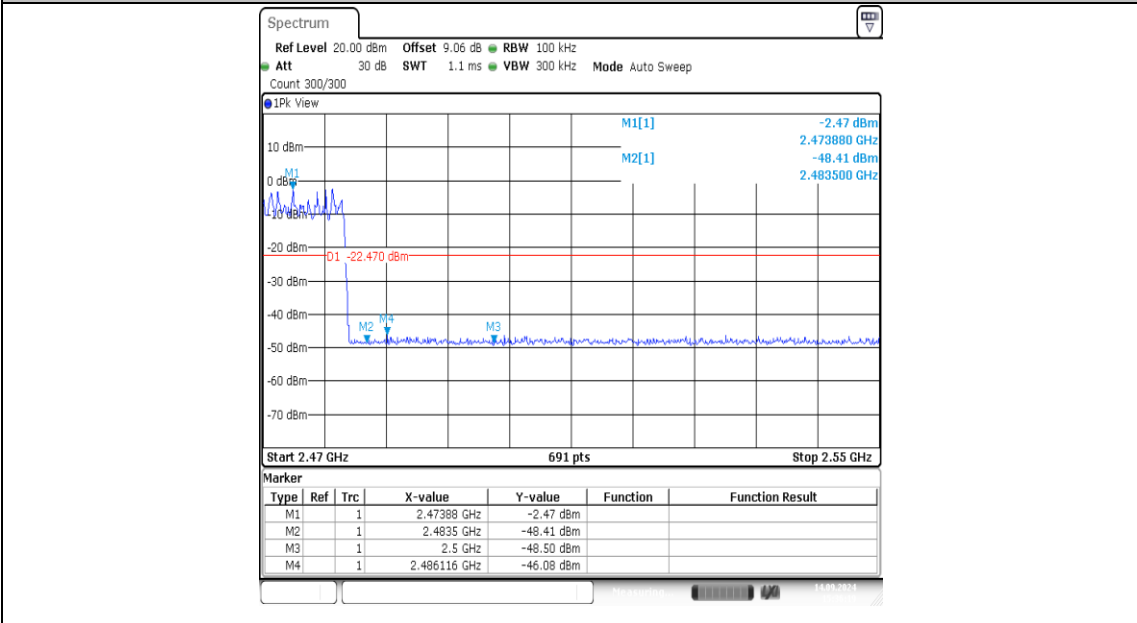
2DH5-Ant1-2402-PASS



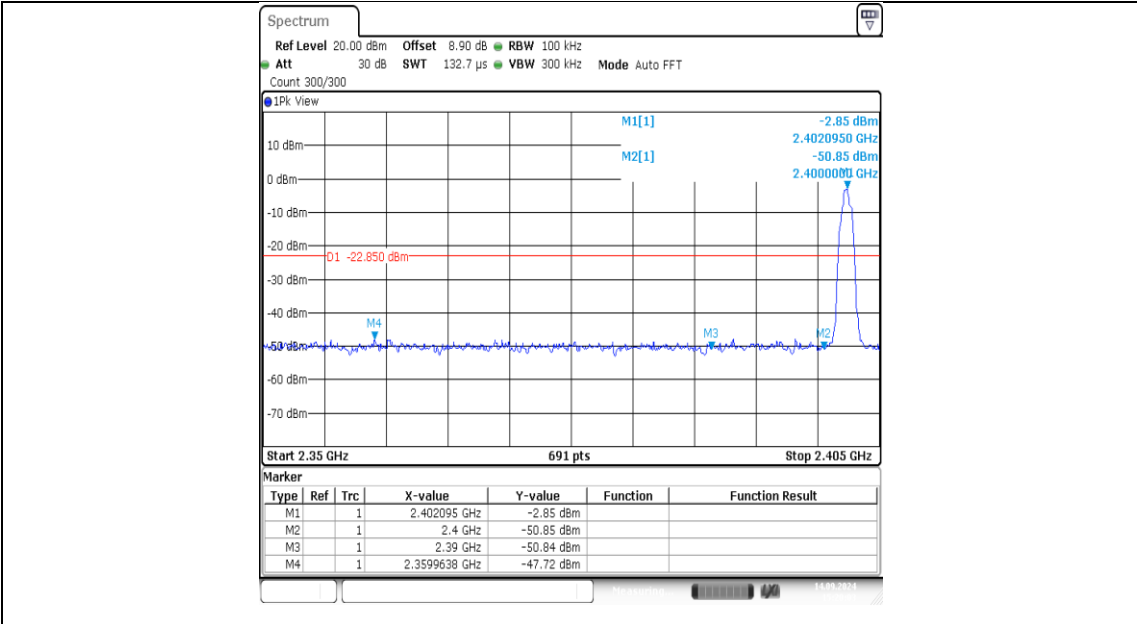
2DH5-Ant1-2480-PASS



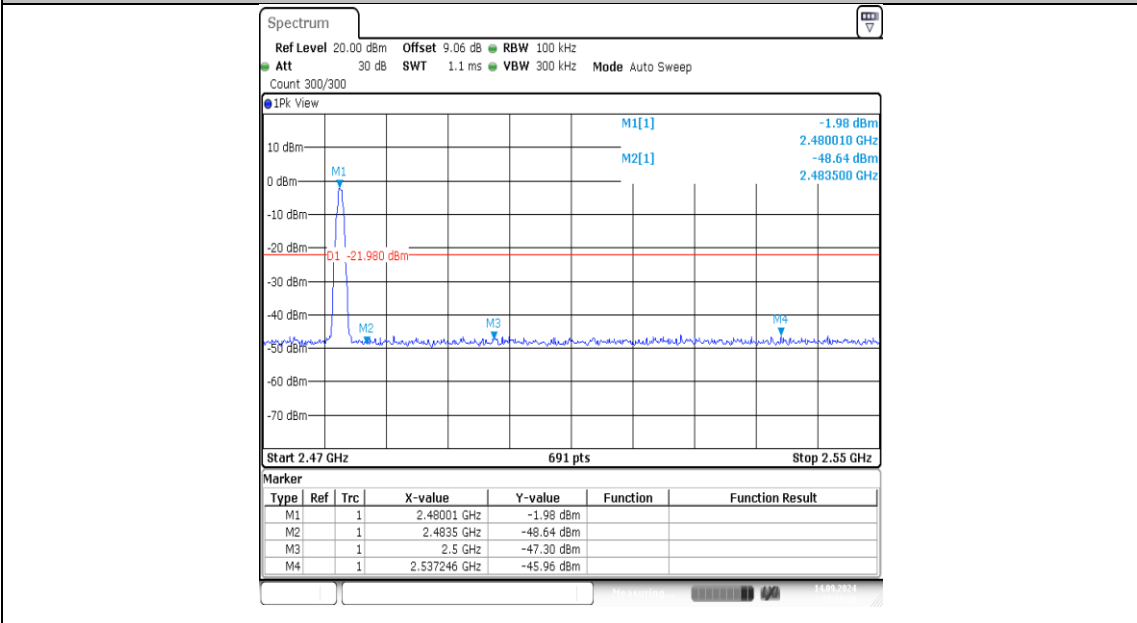
2DH5-Ant1-Hop_2402-PASS



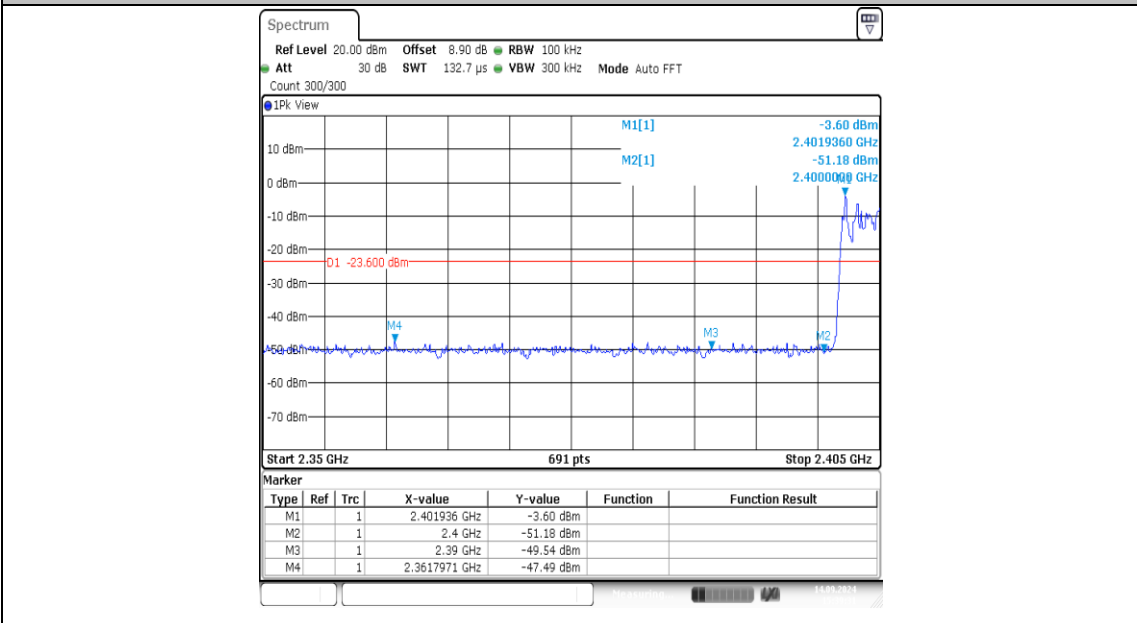
2DH5-Ant1-Hop_2480-PASS



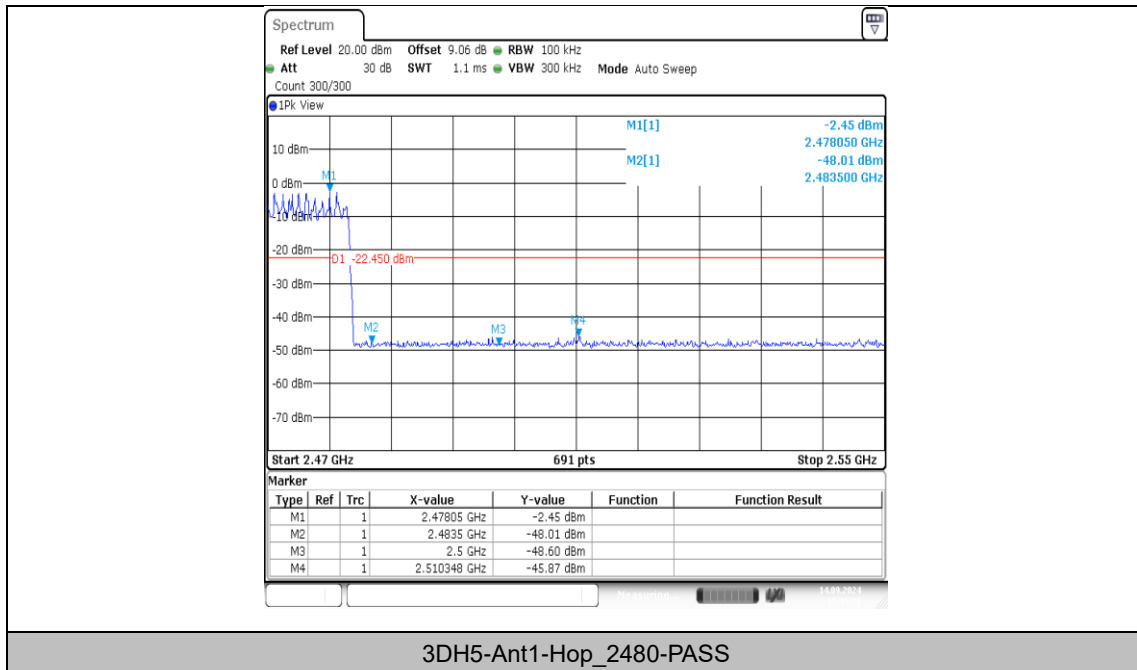
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

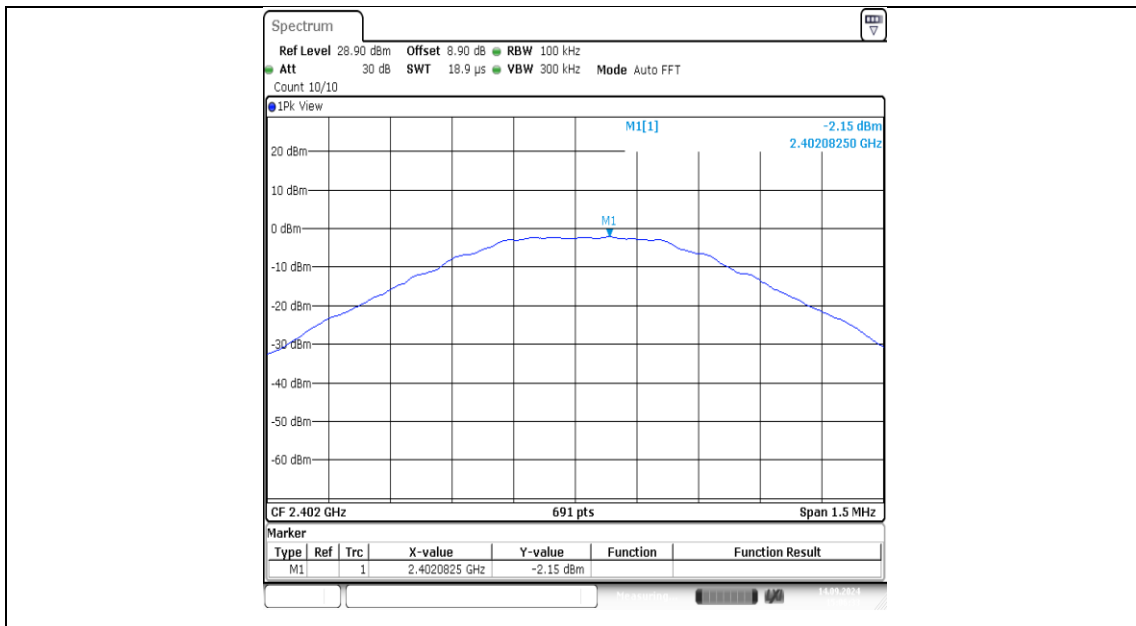


Appendix H: Conducted Spurious Emission

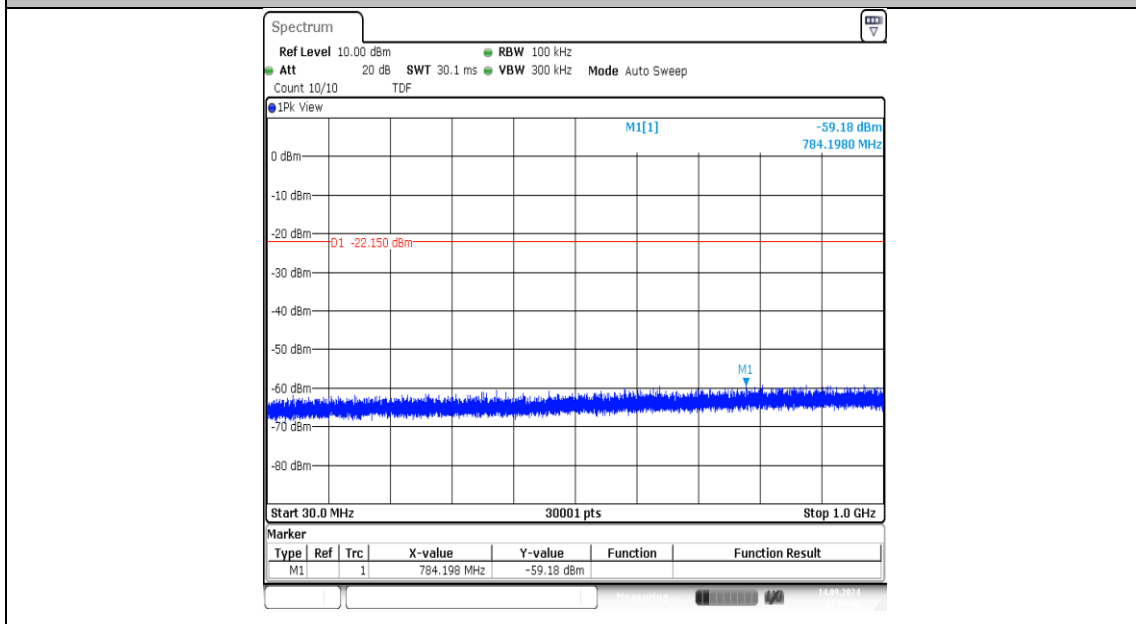
Test Result

Test Mode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.15	-2.15	---	PASS
DH5	Ant1	2402	30~1000	-2.15	-59.18	≤-22.15	PASS
DH5	Ant1	2402	1000~26500	-2.15	-28.27	≤-22.15	PASS
DH5	Ant1	2441	0~Reference	-1.92	-1.92	---	PASS
DH5	Ant1	2441	30~1000	-1.92	-59.35	≤-21.92	PASS
DH5	Ant1	2441	1000~26500	-1.92	-29.69	≤-21.92	PASS
DH5	Ant1	2480	0~Reference	-1.74	-1.74	---	PASS
DH5	Ant1	2480	30~1000	-1.74	-58.16	≤-21.74	PASS
DH5	Ant1	2480	1000~26500	-1.74	-27.65	≤-21.74	PASS
2DH5	Ant1	2402	0~Reference	-2.29	-2.29	---	PASS
2DH5	Ant1	2402	30~1000	-2.29	-58.39	≤-22.29	PASS
2DH5	Ant1	2402	1000~26500	-2.29	-29.07	≤-22.29	PASS
2DH5	Ant1	2441	0~Reference	-2.30	-2.30	---	PASS
2DH5	Ant1	2441	30~1000	-2.30	-59.23	≤-22.3	PASS
2DH5	Ant1	2441	1000~26500	-2.30	-32.01	≤-22.3	PASS
2DH5	Ant1	2480	0~Reference	-2.20	-2.20	---	PASS
2DH5	Ant1	2480	30~1000	-2.20	-58.61	≤-22.2	PASS
2DH5	Ant1	2480	1000~26500	-2.20	-35.69	≤-22.2	PASS
3DH5	Ant1	2402	0~Reference	-2.40	-2.40	---	PASS
3DH5	Ant1	2402	30~1000	-2.40	-58.17	≤-22.4	PASS
3DH5	Ant1	2402	1000~26500	-2.40	-29.57	≤-22.4	PASS
3DH5	Ant1	2441	0~Reference	-2.07	-2.07	---	PASS
3DH5	Ant1	2441	30~1000	-2.07	-57.97	≤-22.07	PASS
3DH5	Ant1	2441	1000~26500	-2.07	-30.68	≤-22.07	PASS
3DH5	Ant1	2480	0~Reference	-2.03	-2.03	---	PASS
3DH5	Ant1	2480	30~1000	-2.03	-57.62	≤-22.03	PASS
3DH5	Ant1	2480	1000~26500	-2.03	-30.19	≤-22.03	PASS

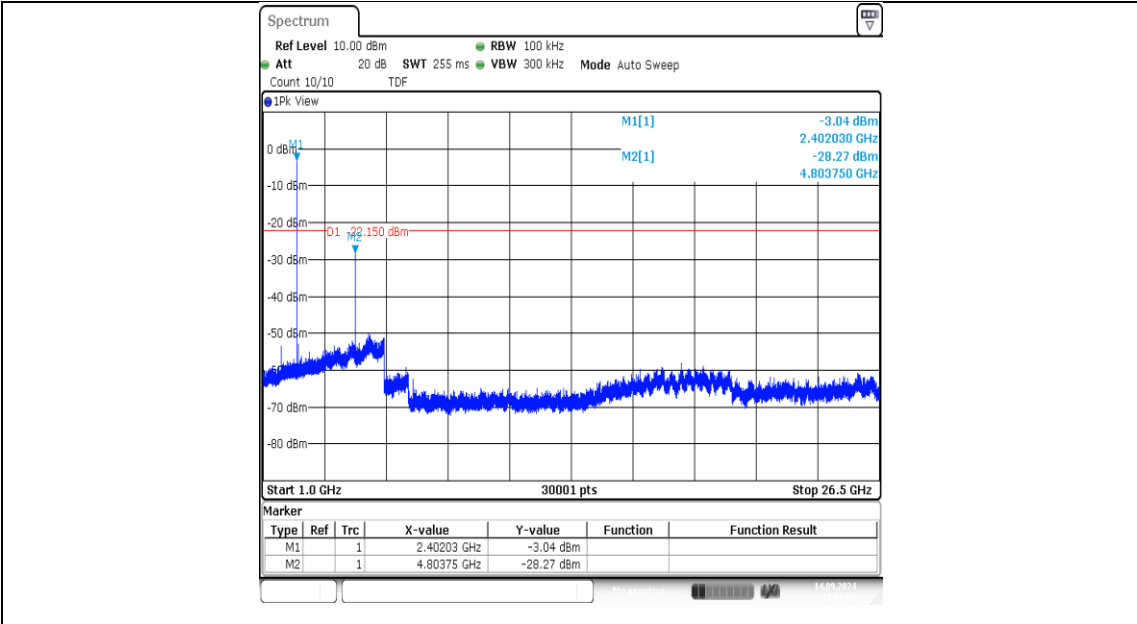
Test Graphs



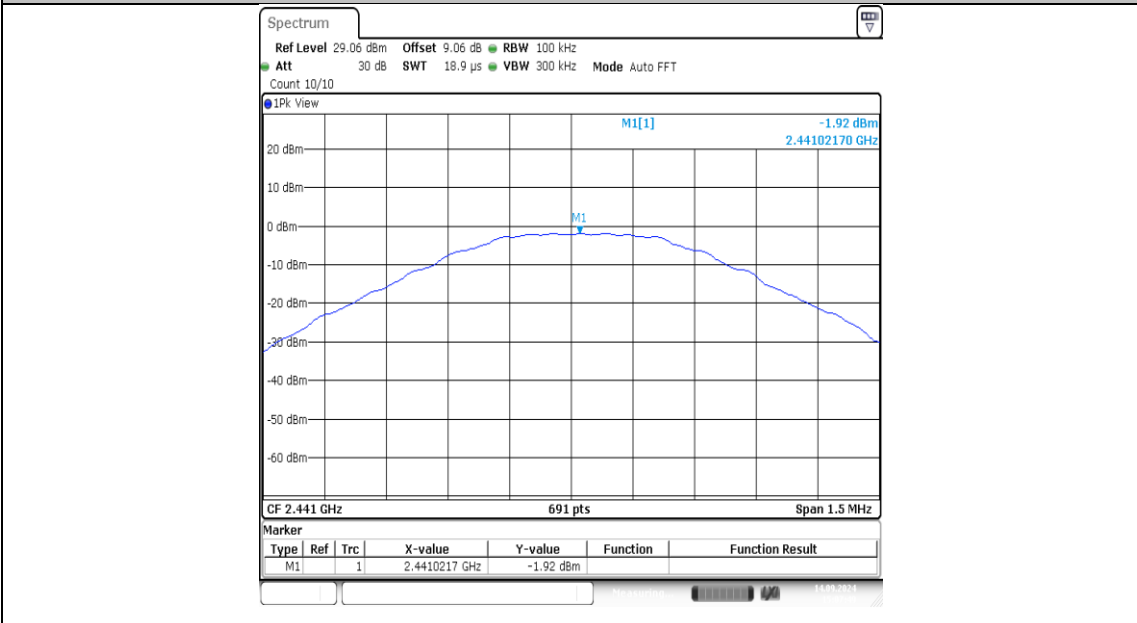
DH5-Ant1-2402-0~Reference-PASS



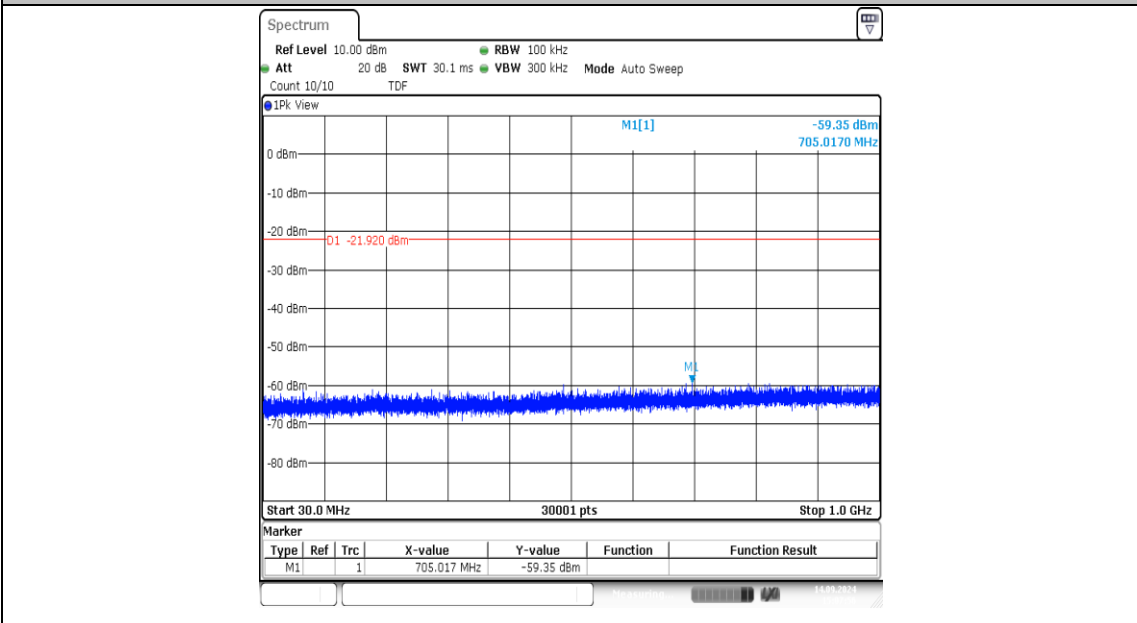
DH5-Ant1-2402-30~1000-PASS



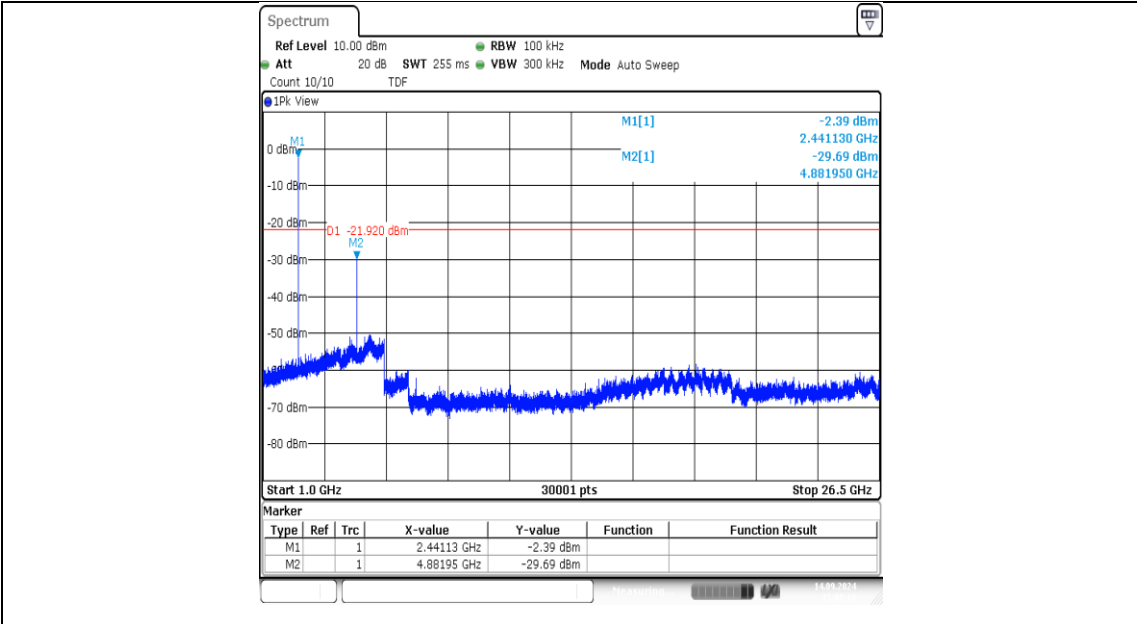
DH5-Ant1-2402-1000~26500-PASS



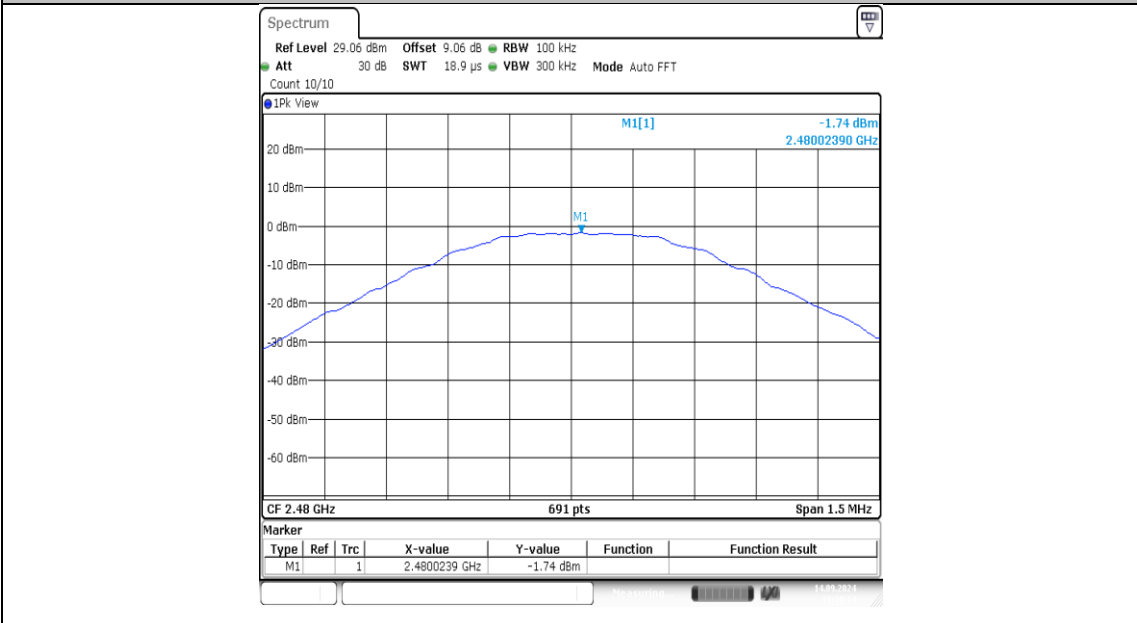
DH5-Ant1-2441-0~Reference-PASS



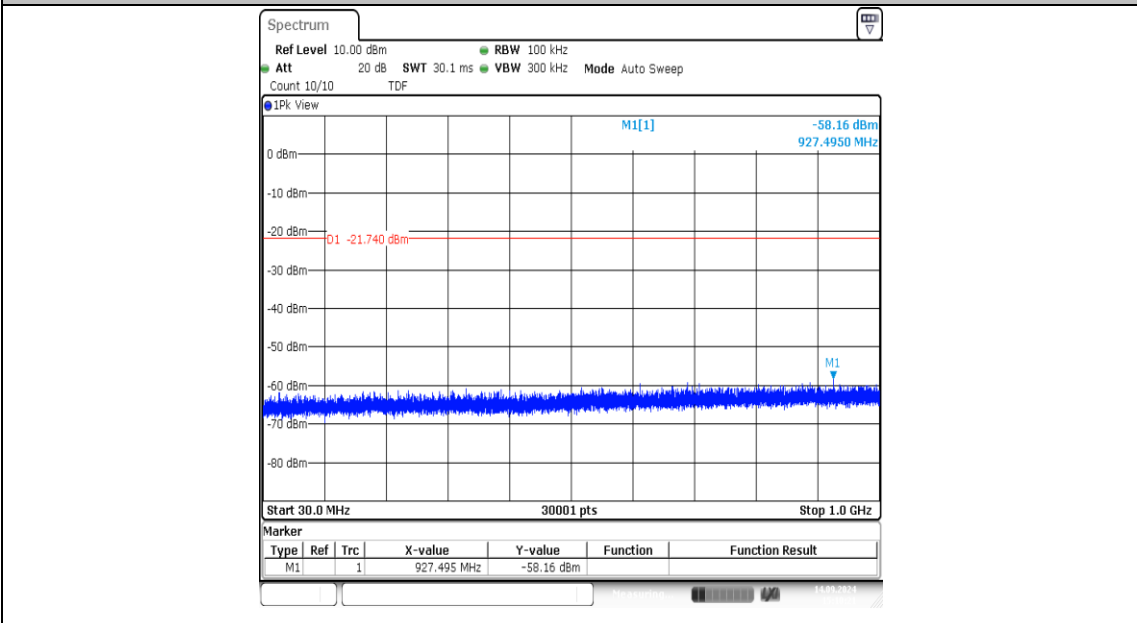
DH5-Ant1-2441-30~1000-PASS



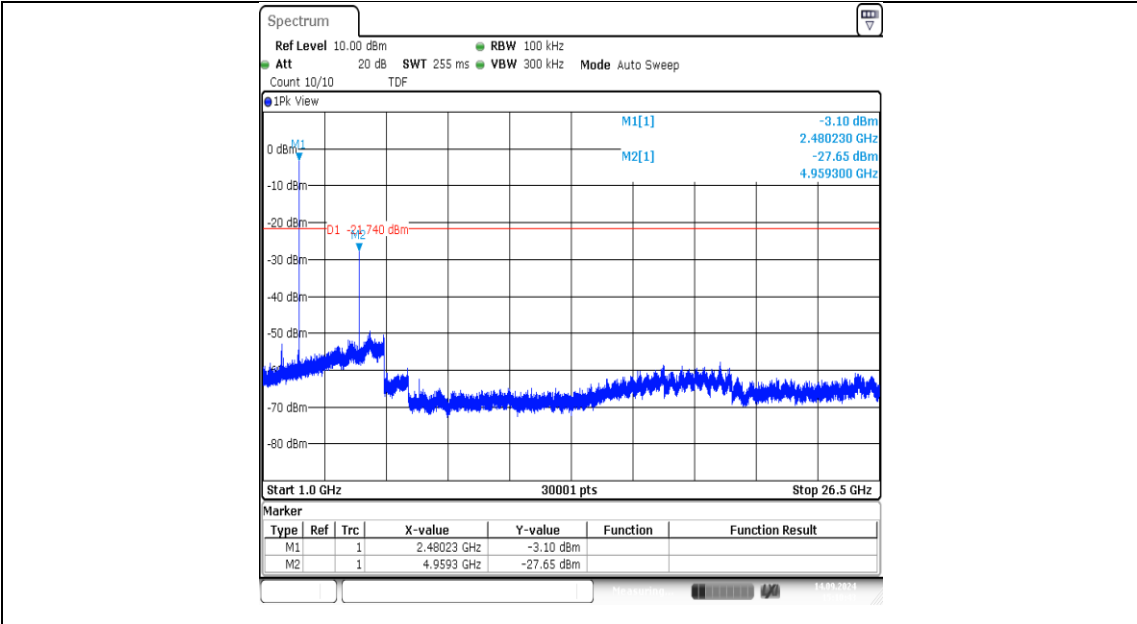
DH5-Ant1-2441-1000~26500-PASS



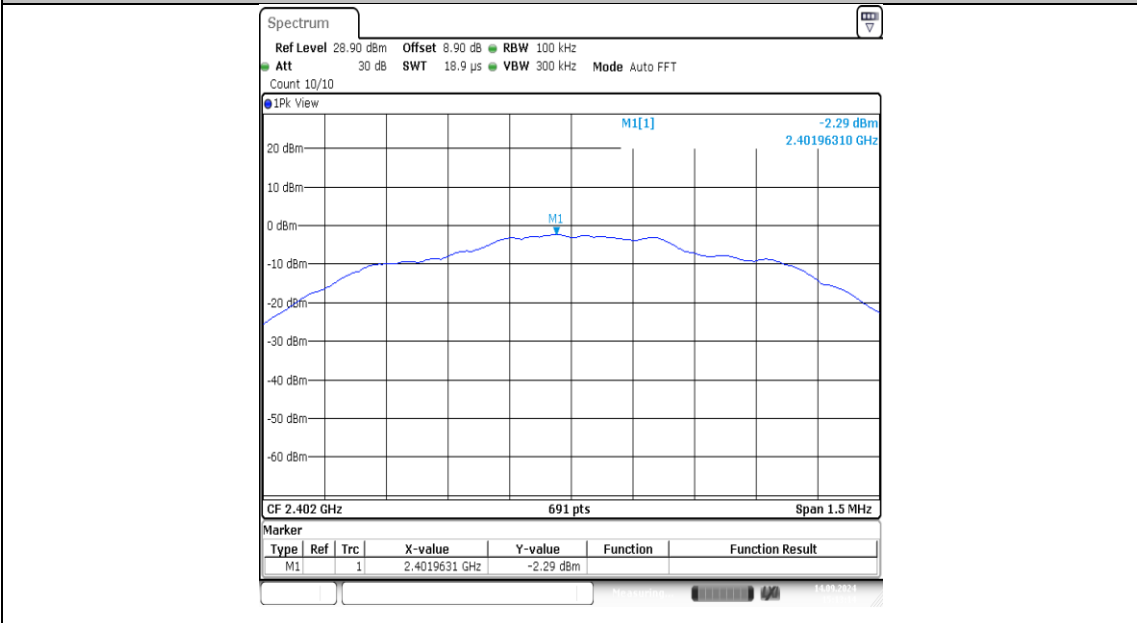
DH5-Ant1-2480-0~Reference-PASS



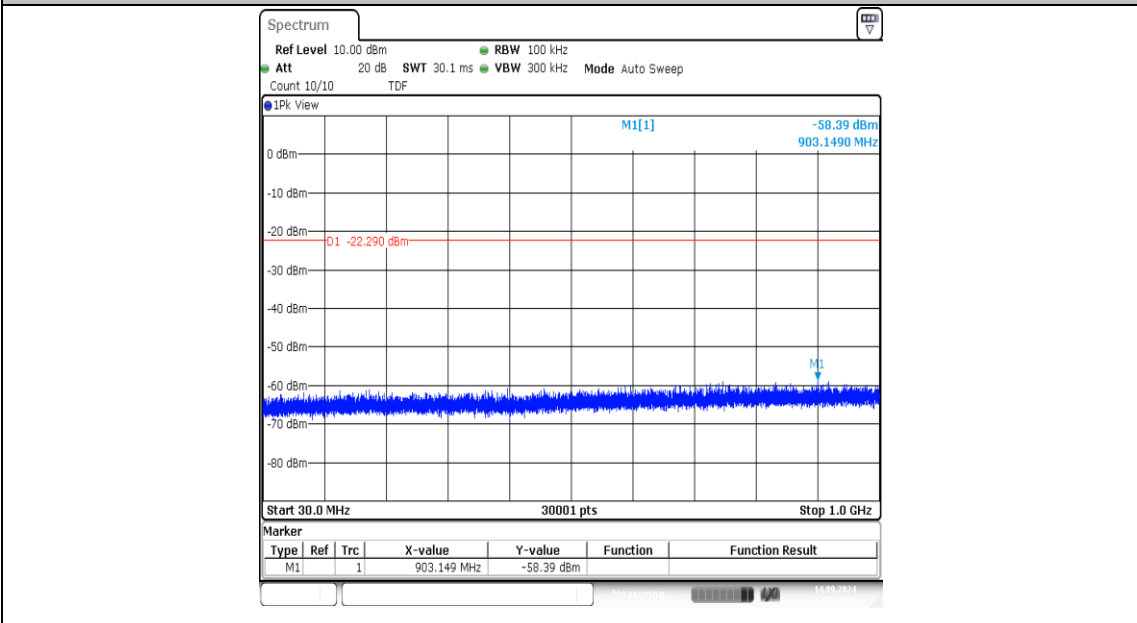
DH5-Ant1-2480-30~1000-PASS



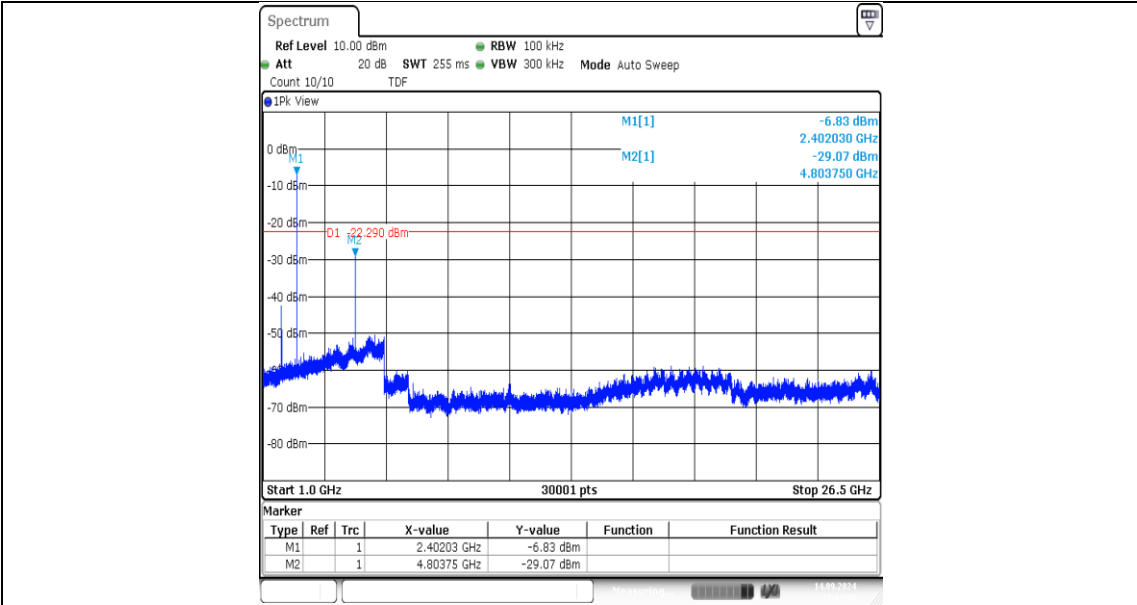
DH5-Ant1-2480-1000~26500-PASS



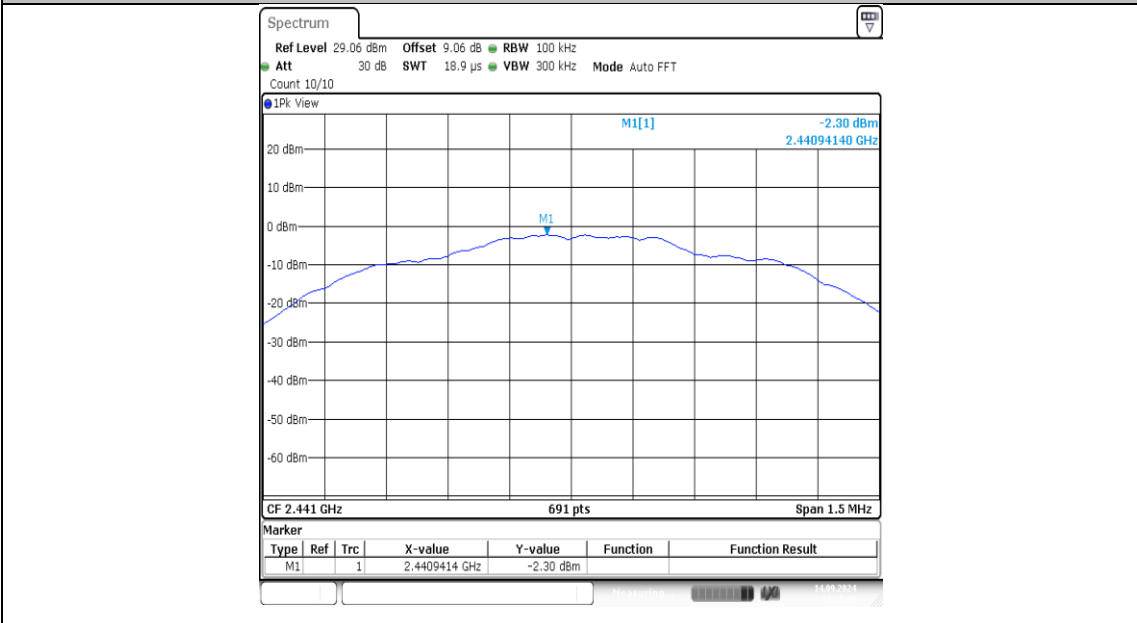
2DH5-Ant1-2402-0~Reference-PASS



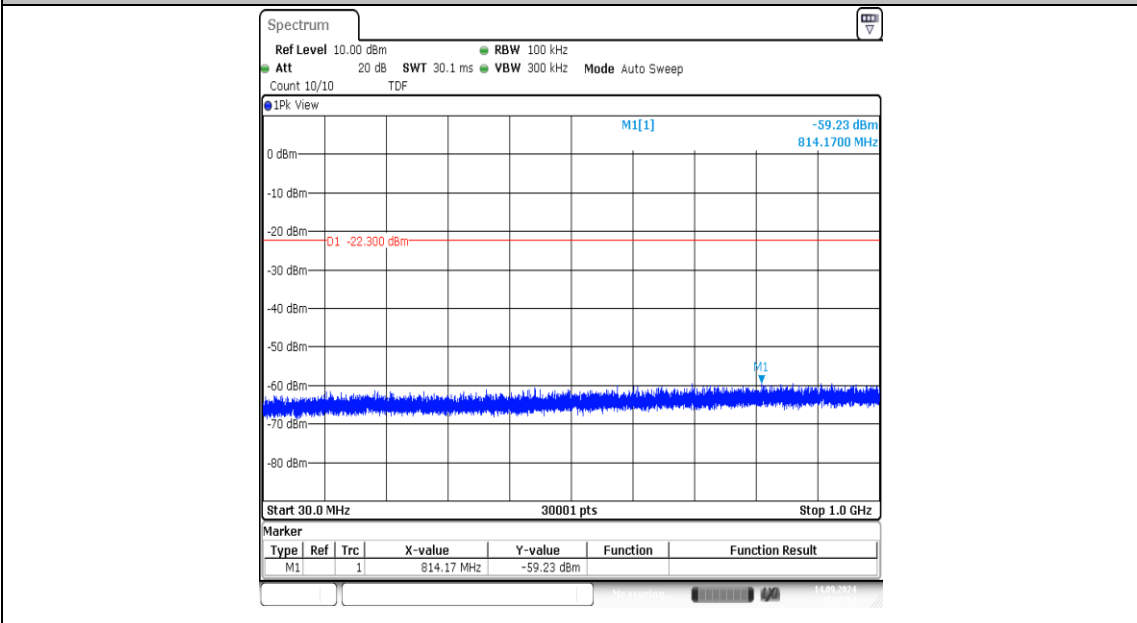
2DH5-Ant1-2402-30~1000-PASS



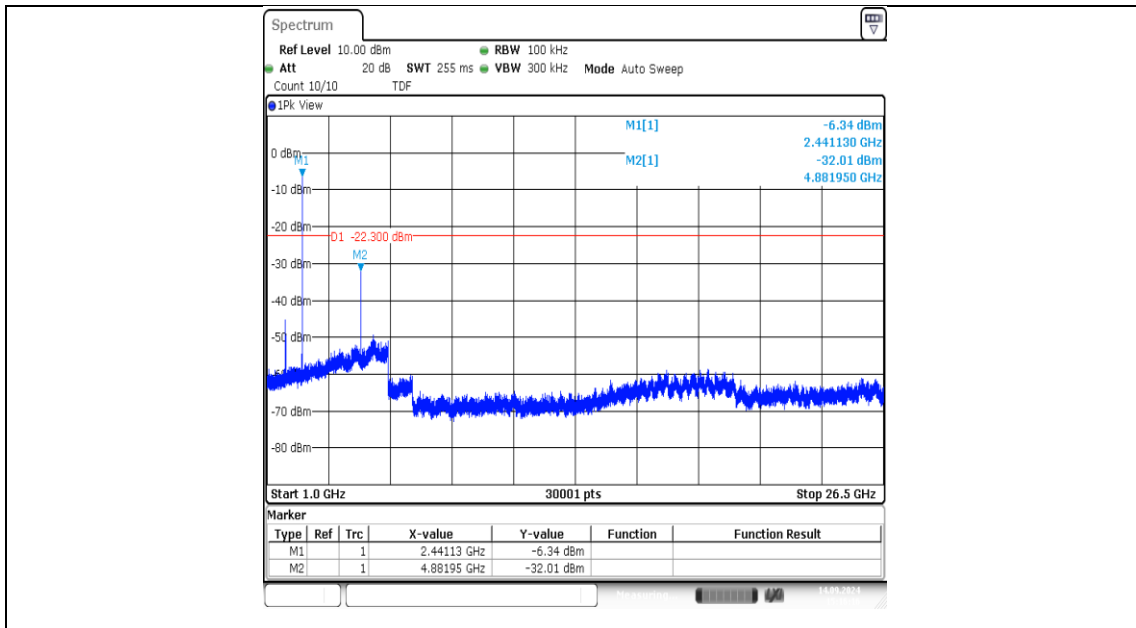
2DH5-Ant1-2402-1000~26500-PASS



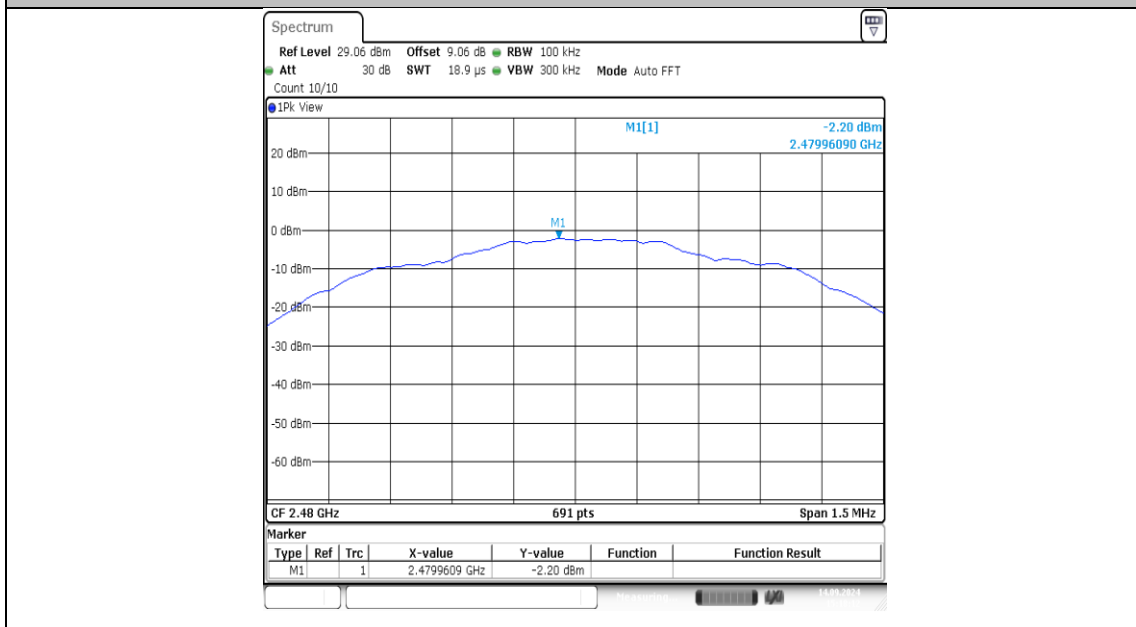
2DH5-Ant1-2441-0~Reference-PASS



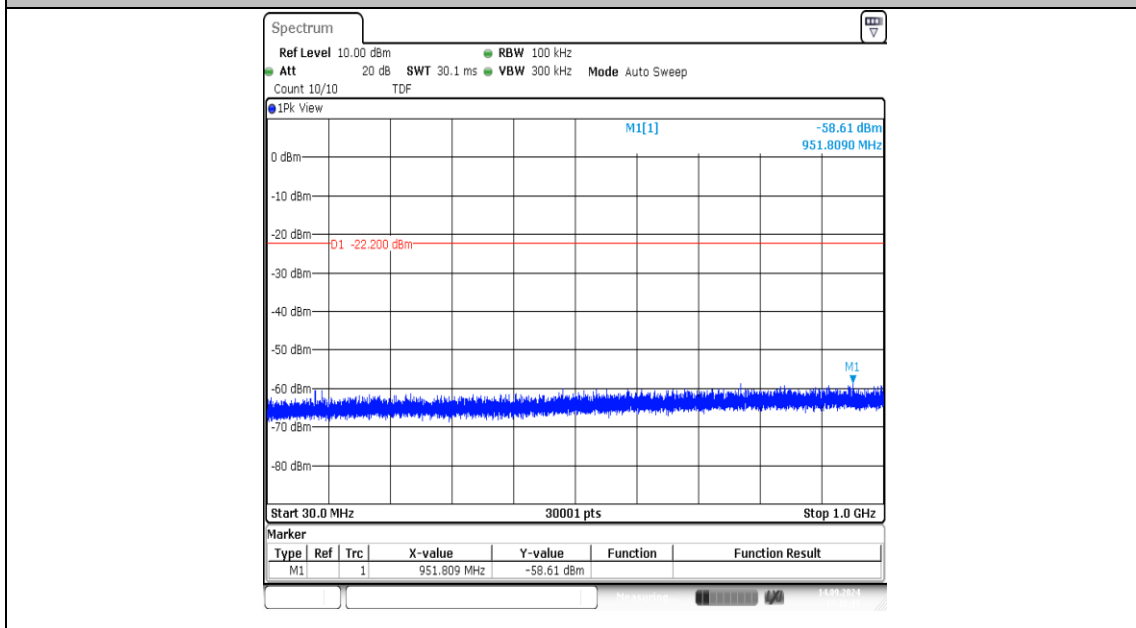
2DH5-Ant1-2441-30~1000-PASS



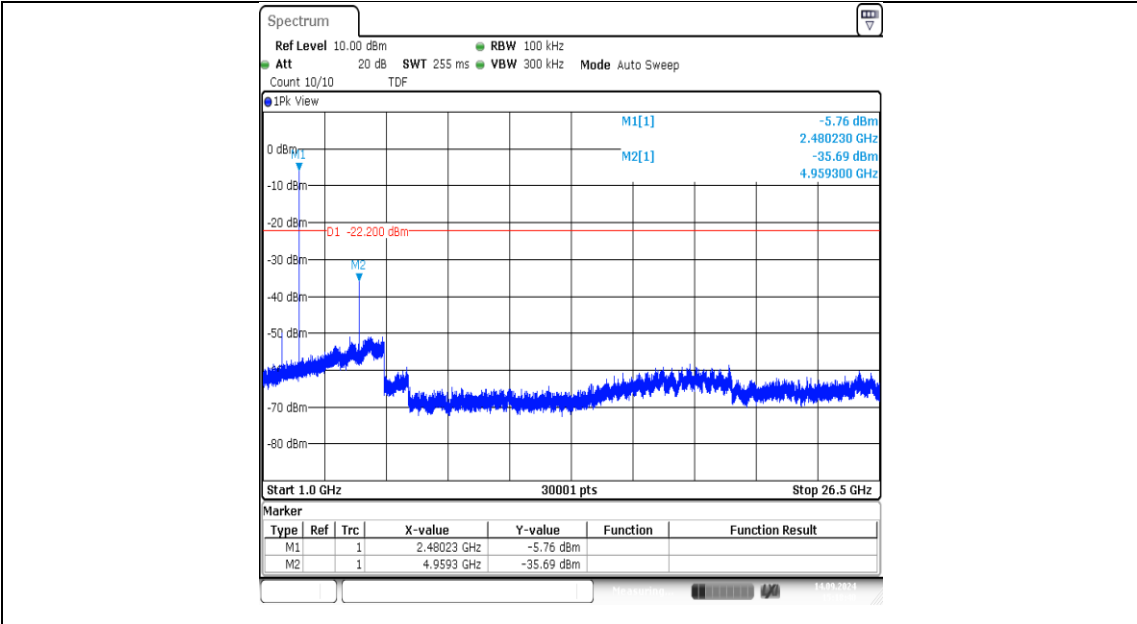
2DH5-Ant1-2441-1000~26500-PASS



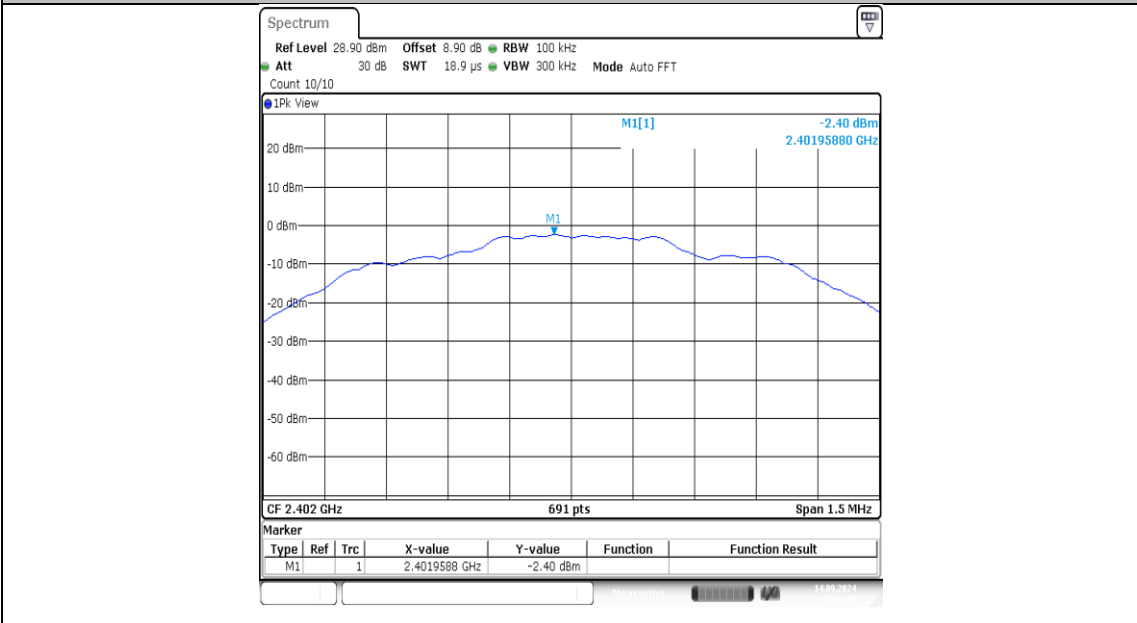
2DH5-Ant1-2480-0~Reference-PASS



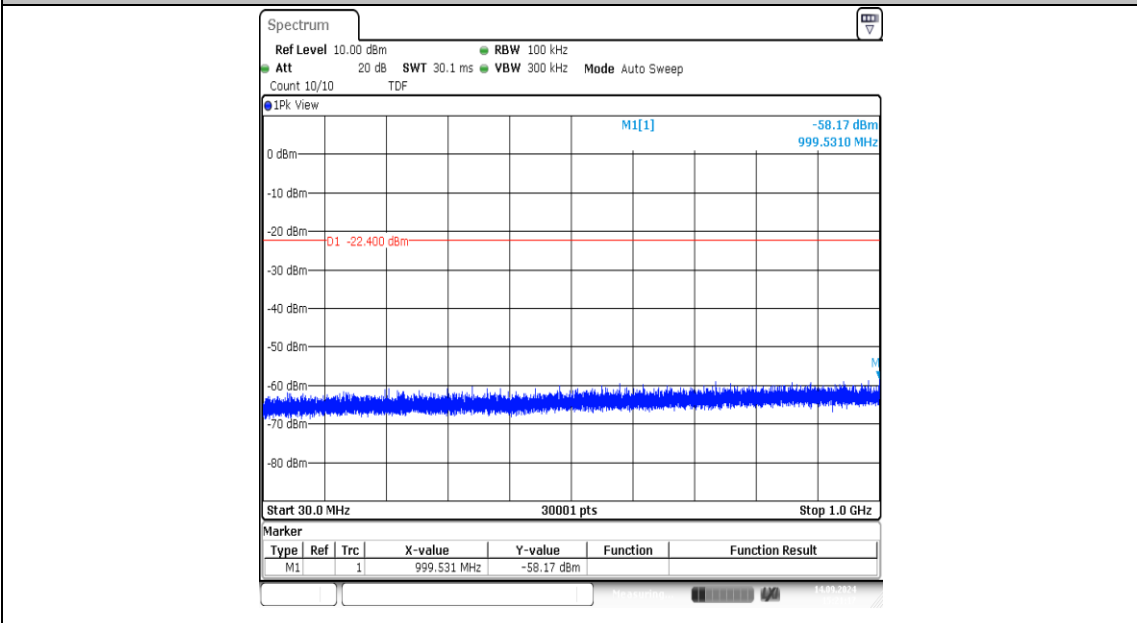
2DH5-Ant1-2480-30~1000-PASS



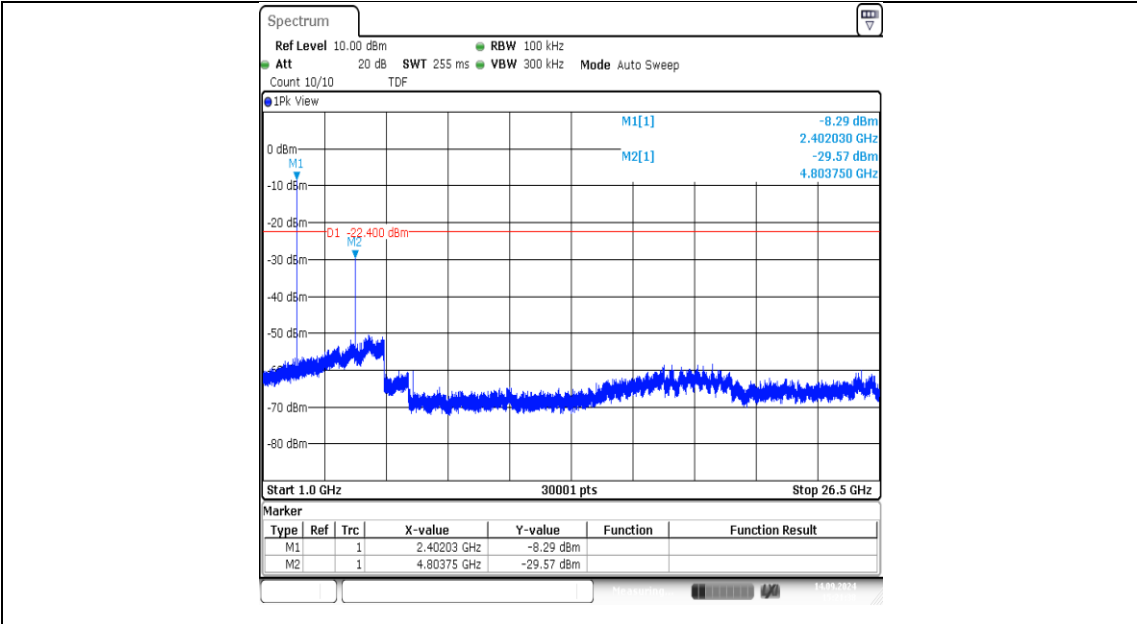
2DH5-Ant1-2480-1000~26500-PASS



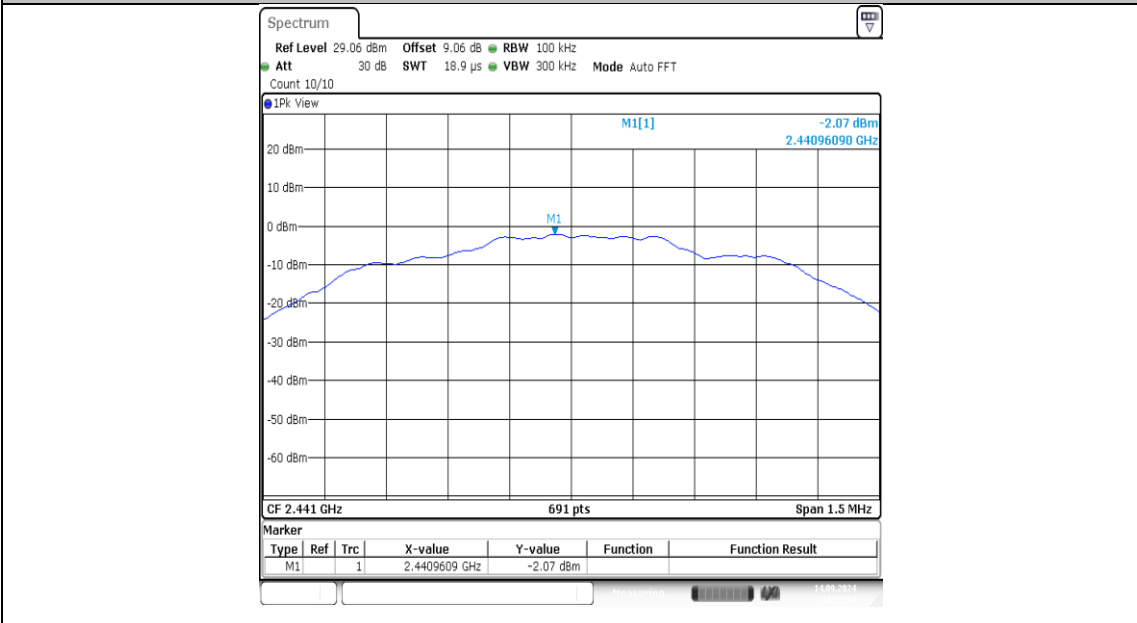
3DH5-Ant1-2402-0~Reference-PASS



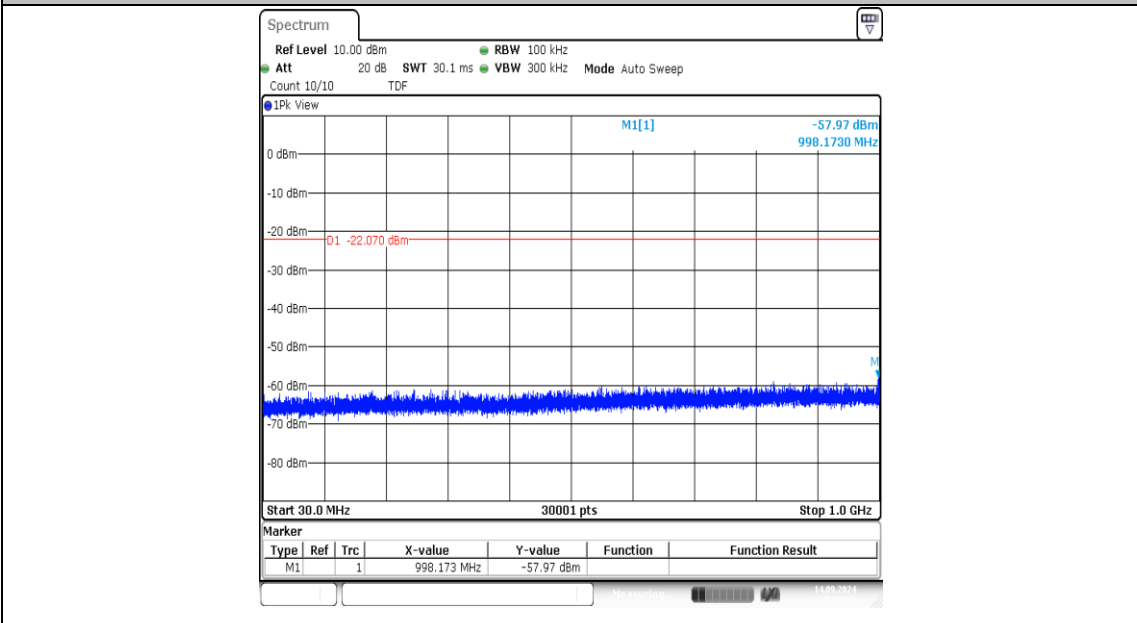
3DH5-Ant1-2402-30~1000-PASS



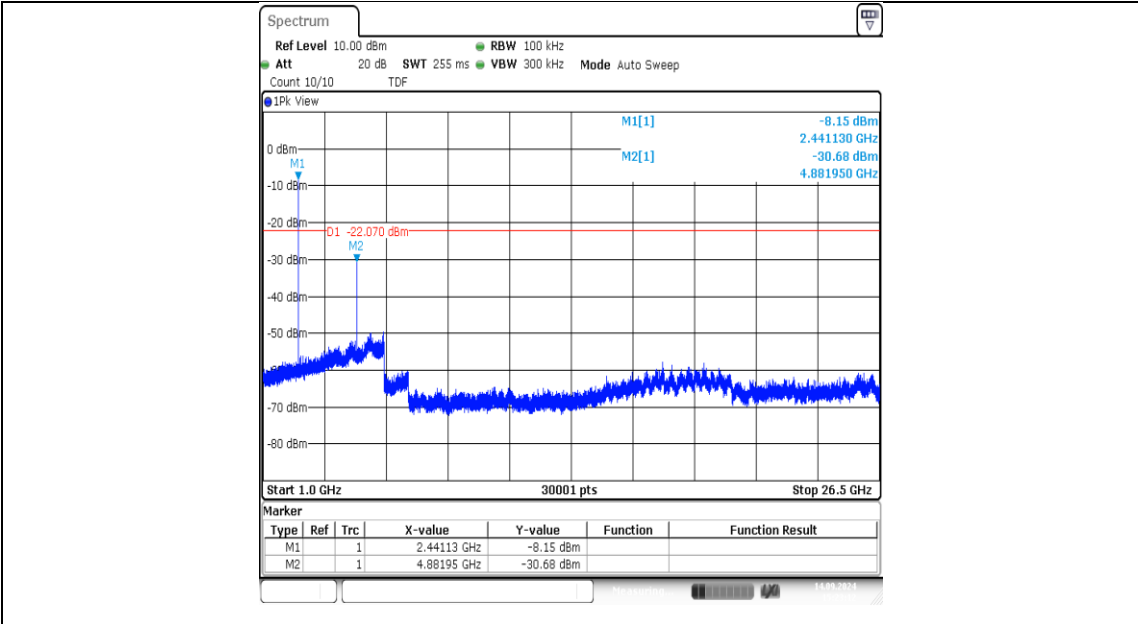
3DH5-Ant1-2402-1000~26500-PASS



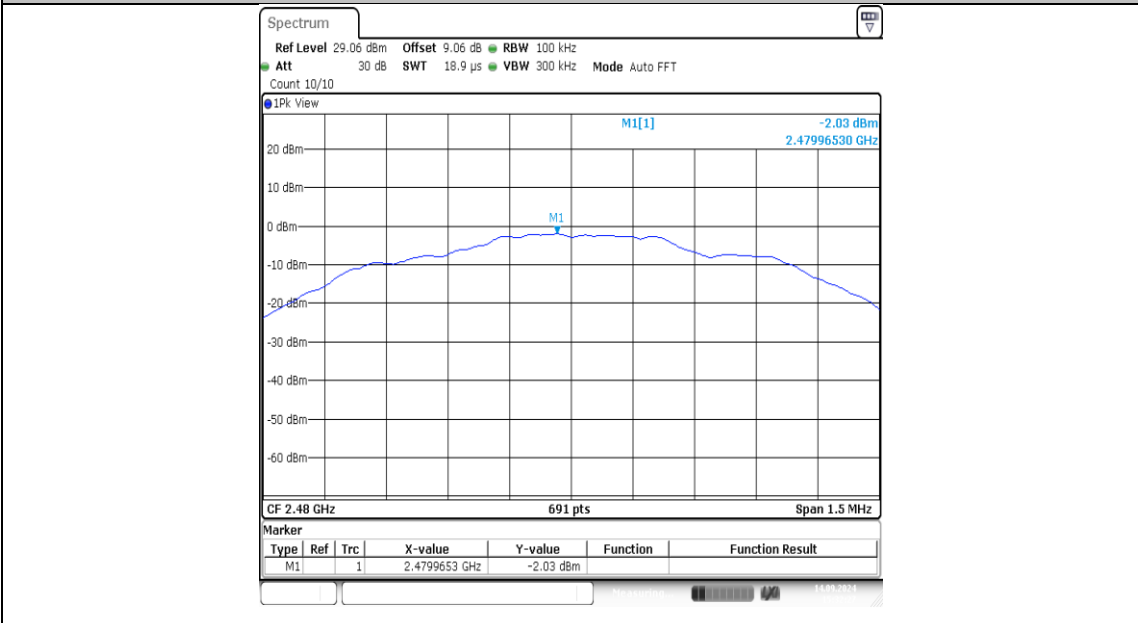
3DH5-Ant1-2441-0~Reference-PASS



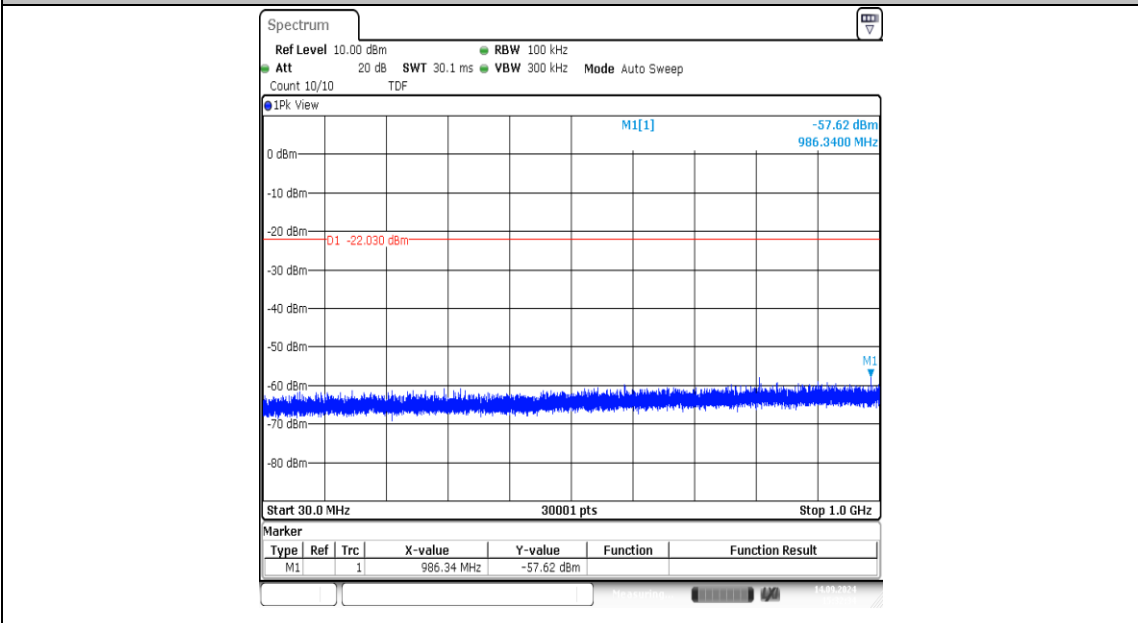
3DH5-Ant1-2441-30~1000-PASS



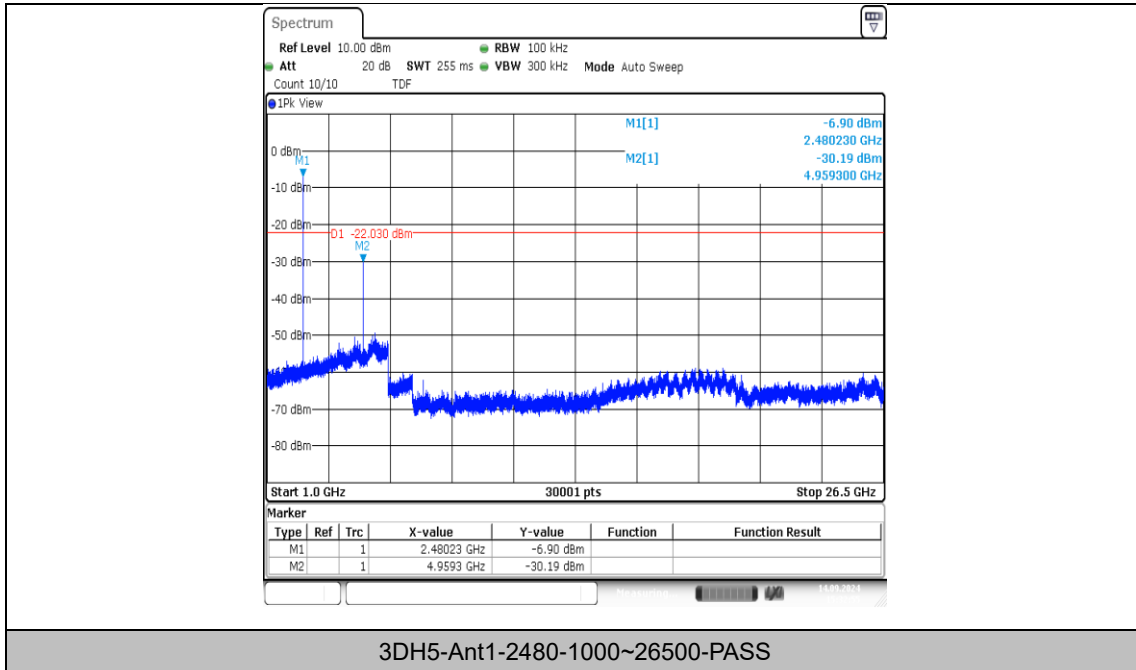
3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS

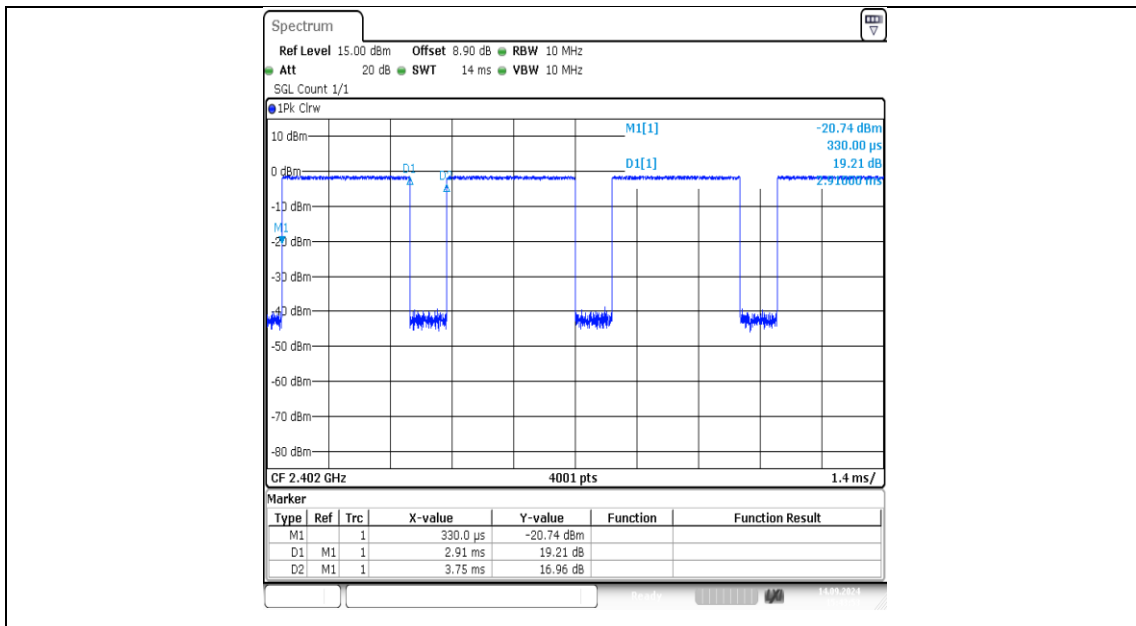


Appendix I: Duty Cycle

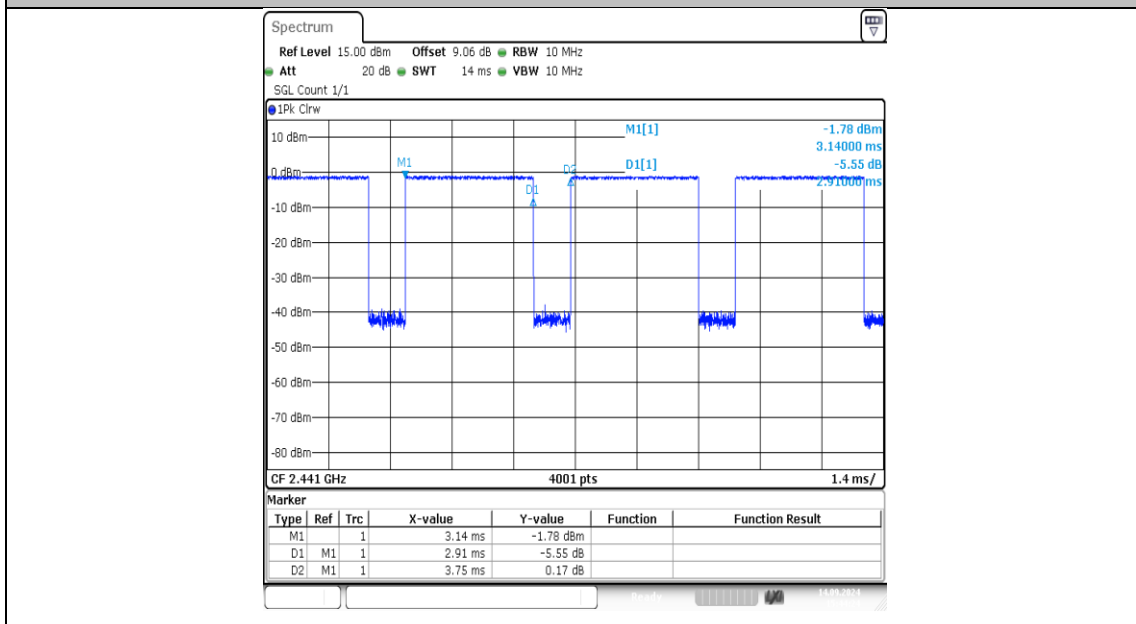
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
DH5	Ant1	2441	2.91	3.75	77.60	1.10
DH5	Ant1	2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.92	3.76	77.66	1.10
2DH5	Ant1	2441	2.91	3.75	77.60	1.10
2DH5	Ant1	2480	2.92	3.76	77.66	1.10
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
3DH5	Ant1	2441	2.91	3.75	77.60	1.10
3DH5	Ant1	2480	2.92	3.75	77.87	1.09

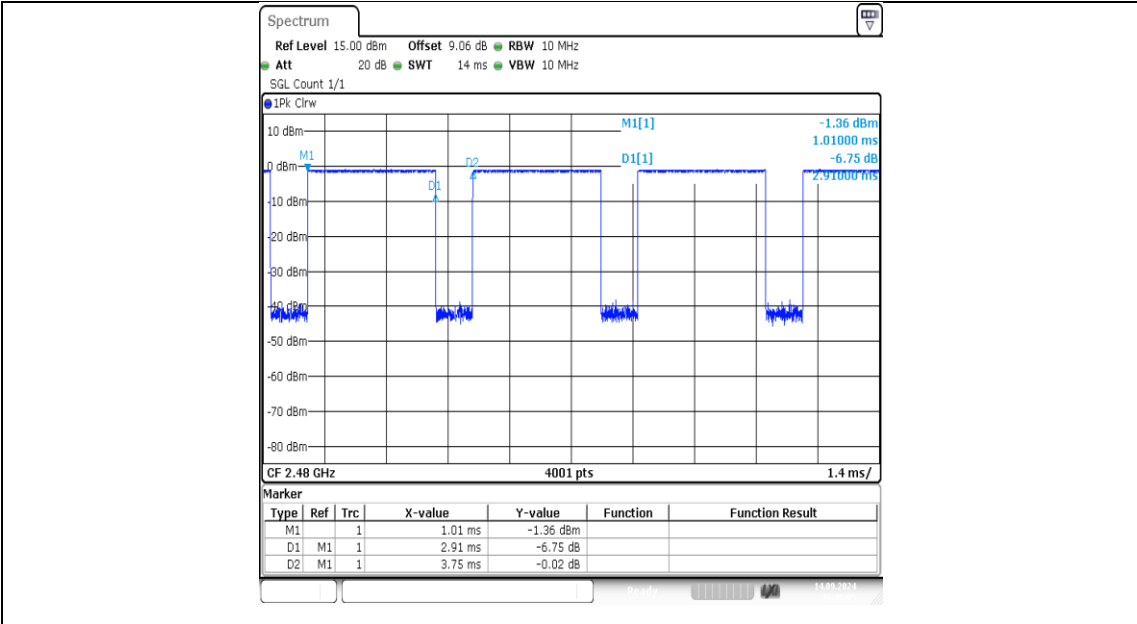
Test Graphs



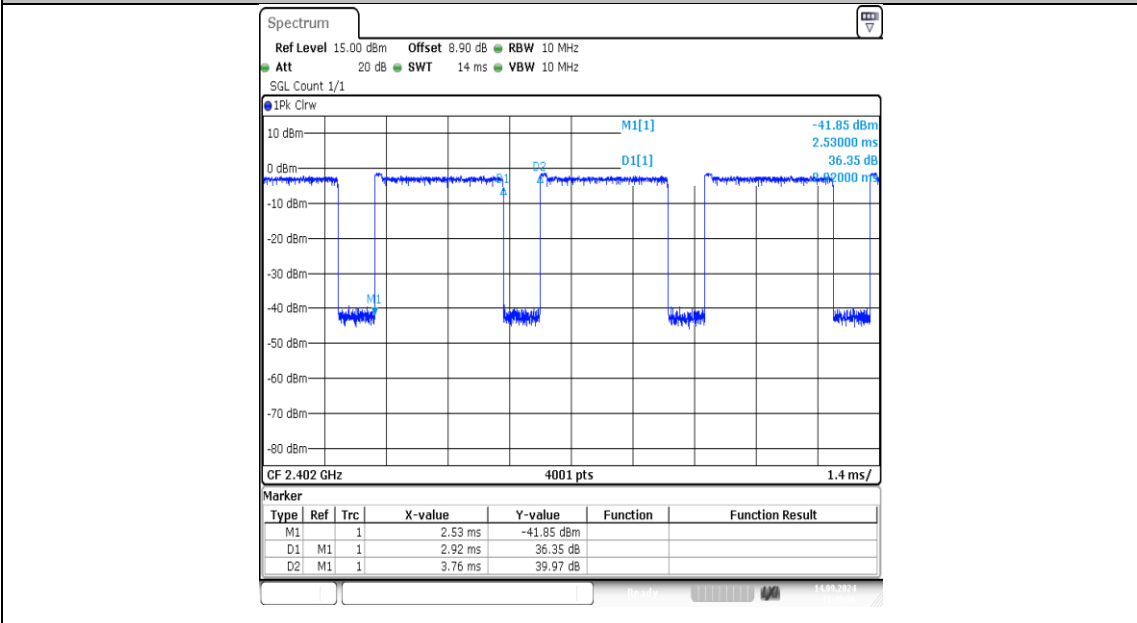
NTNV-DH5-Ant1-2402



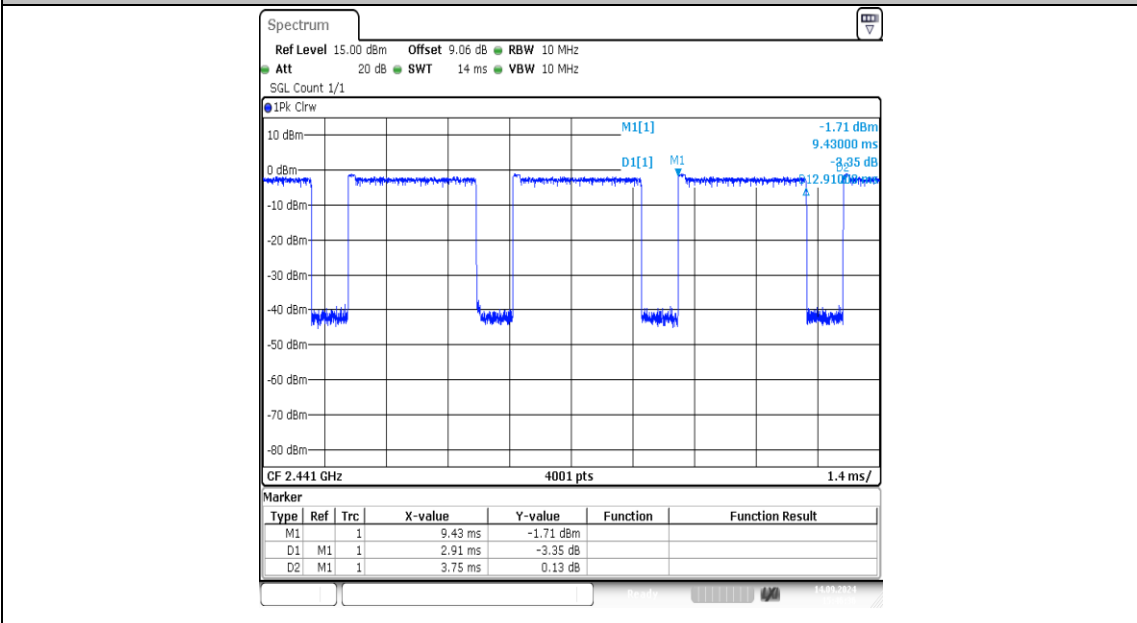
NTNV-DH5-Ant1-2441



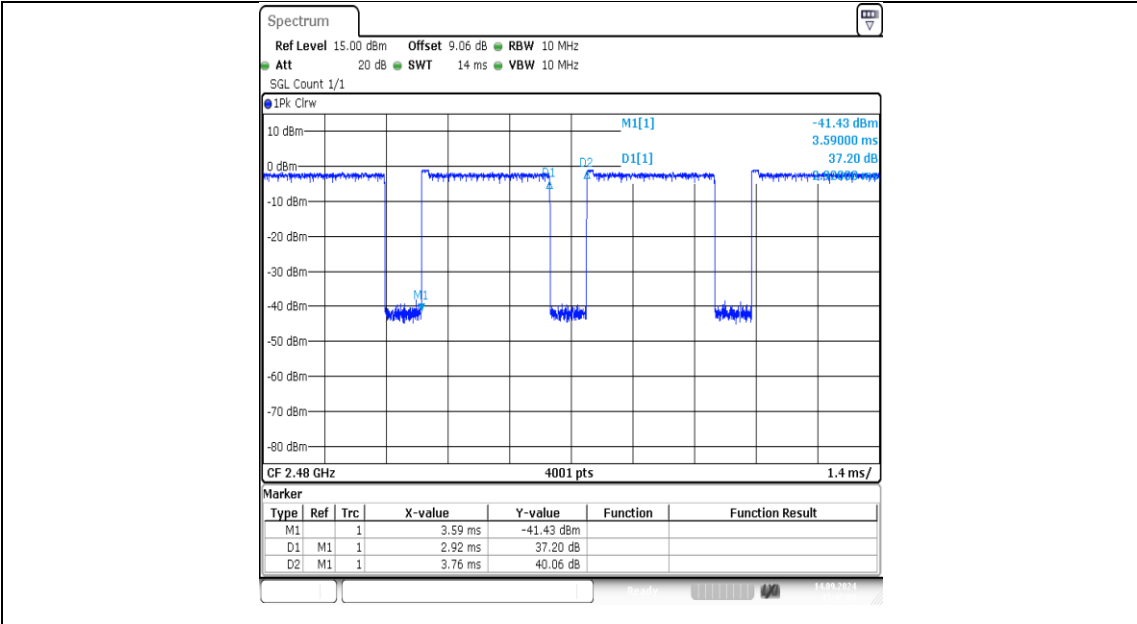
NTNV-DH5-Ant1-2480



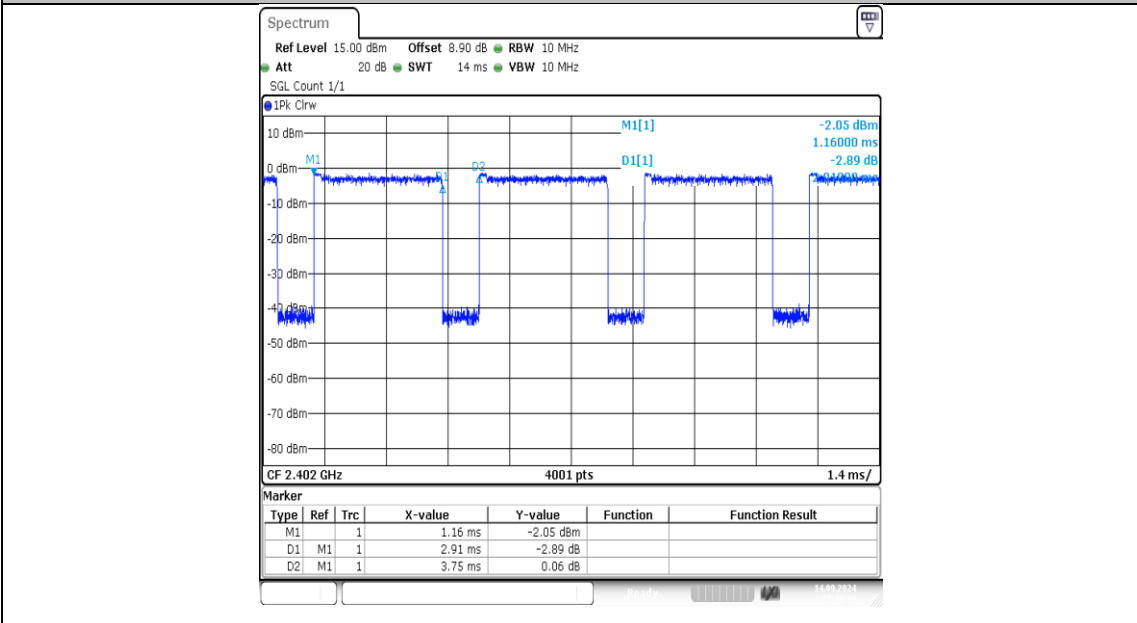
NTNV-2DH5-Ant1-2402



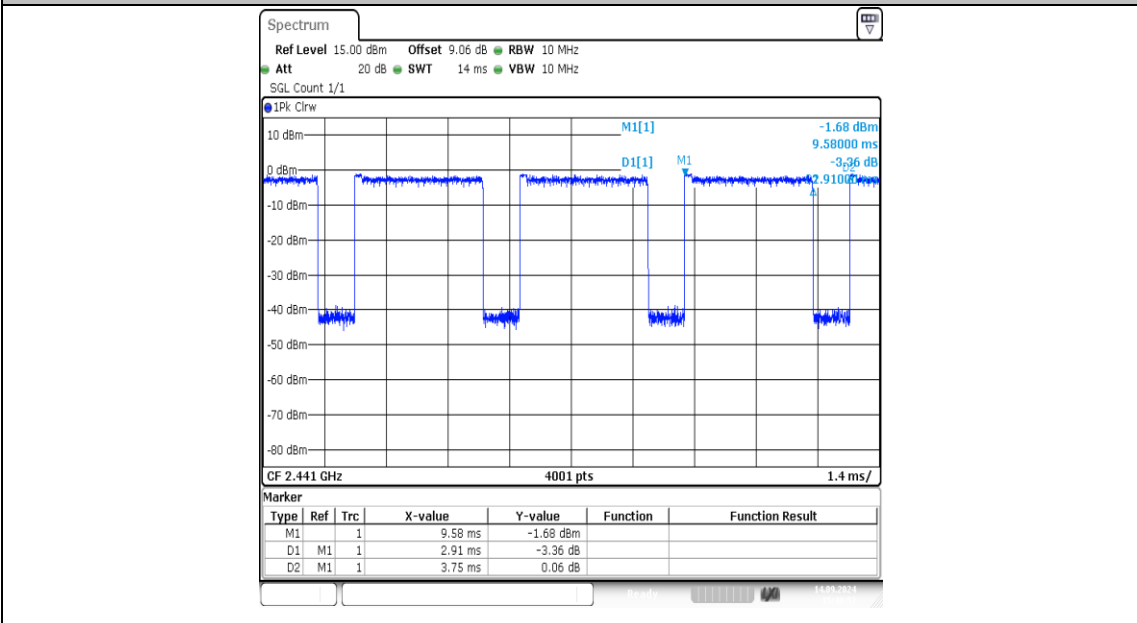
NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

