

FCC Appendix RF Test Data for BT

FCC ID : 2A7D2-BH501

Company : Zhongshan City Bobie Baby Product Co., Ltd

EUT : Baby up smiles inbound

Model Number : BH501

Report No. : CTA25110500601

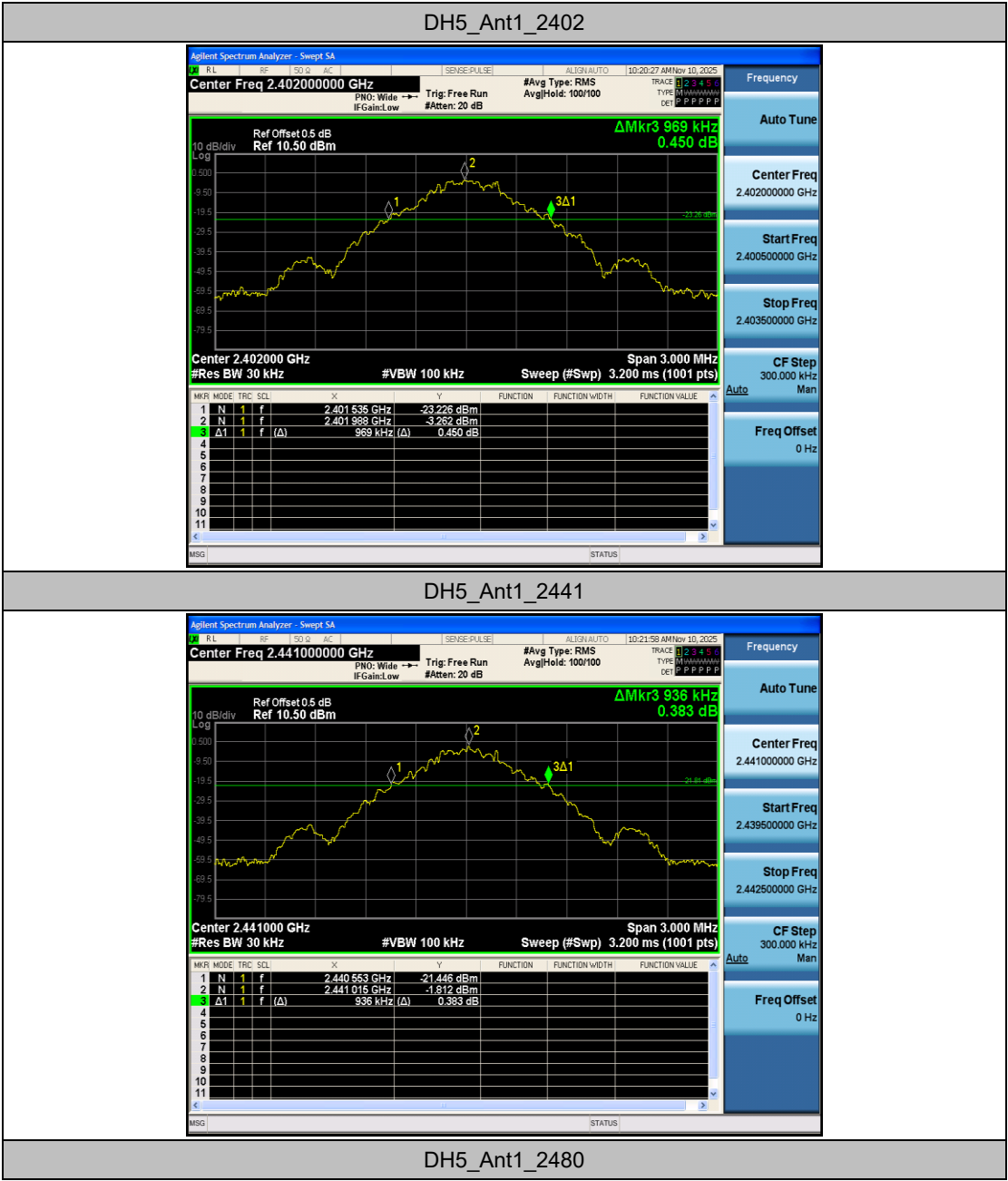
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.969	2401.535	2402.504	---	---
		2441	0.936	2440.553	2441.489	---	---
		2480	0.954	2479.550	2480.504	---	---
2DH5	Ant1	2402	1.323	2401.346	2402.669	---	---
		2441	1.263	2440.394	2441.657	---	---
		2480	1.320	2479.349	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

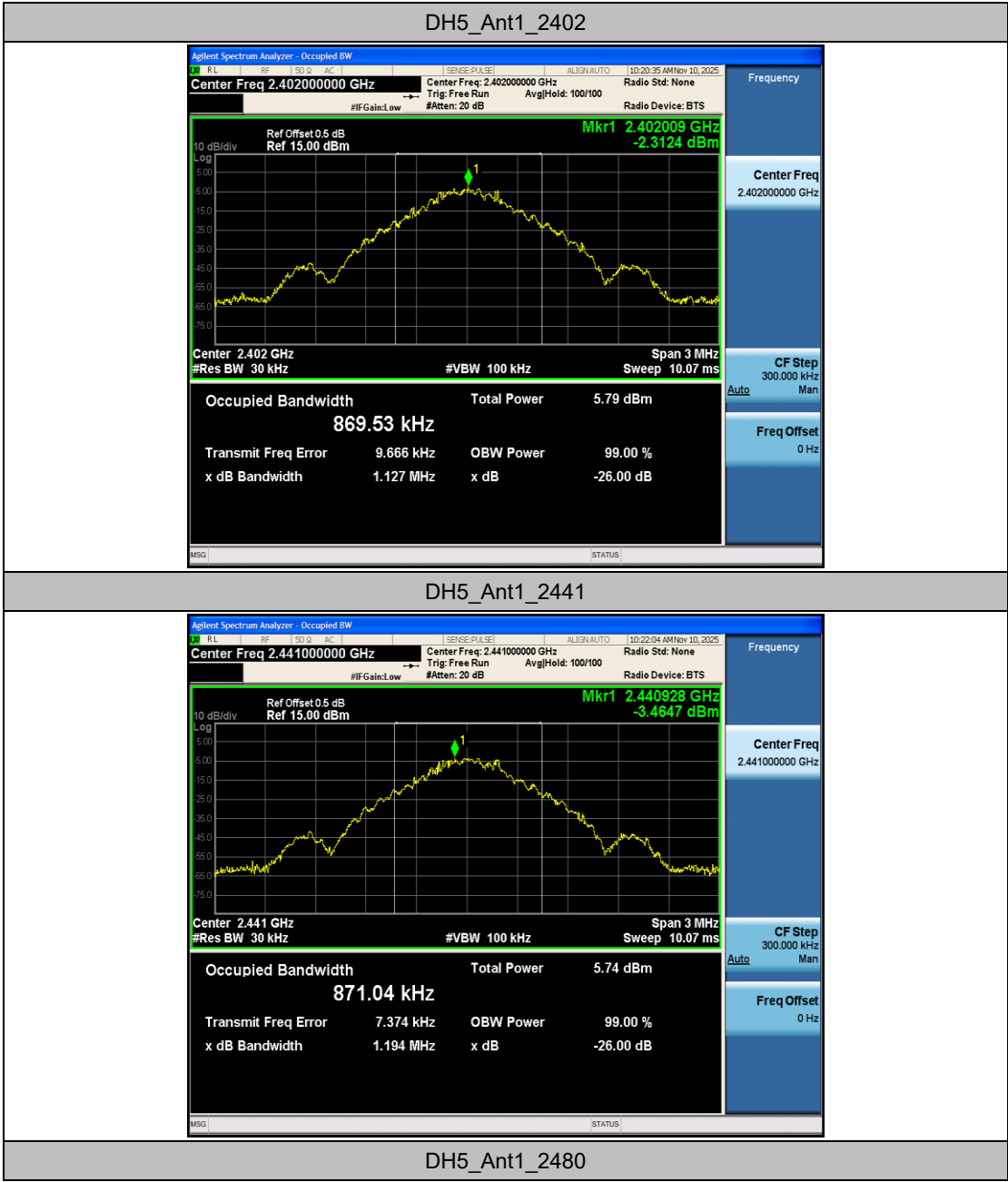


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86953	2401.5749	2402.4444	---	---
		2441	0.87104	2440.5719	2441.4429	---	---
		2480	0.86655	2479.5758	2480.4423	---	---
2DH5	Ant1	2402	1.1857	2401.4166	2402.6023	---	---
		2441	1.1894	2440.4158	2441.6052	---	---
		2480	1.1857	2479.4176	2480.6033	---	---

Test Graphs

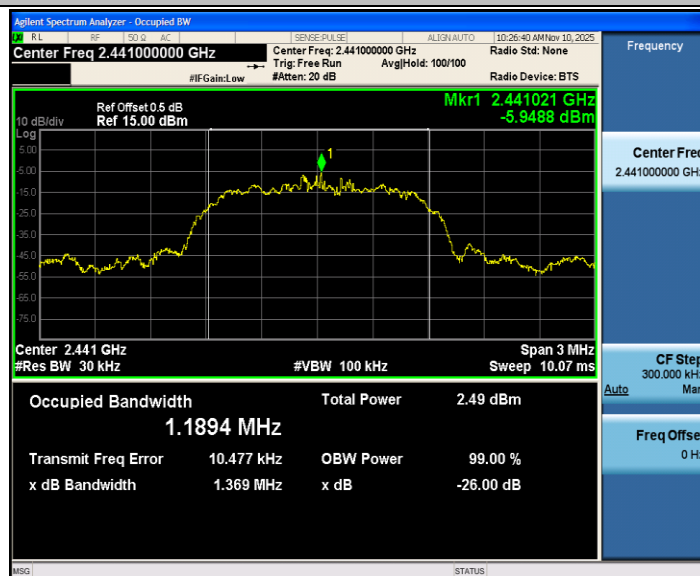




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.10	≤20.97	PASS
		2441	-0.16	≤20.97	PASS
		2480	-0.15	≤20.97	PASS
2DH5	Ant1	2402	-0.89	≤20.97	PASS
		2441	-0.95	≤20.97	PASS
		2480	-0.93	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.969	PASS
2DH5	Ant1	Hop	1.1	≥ 0.882	PASS

Test Graphs

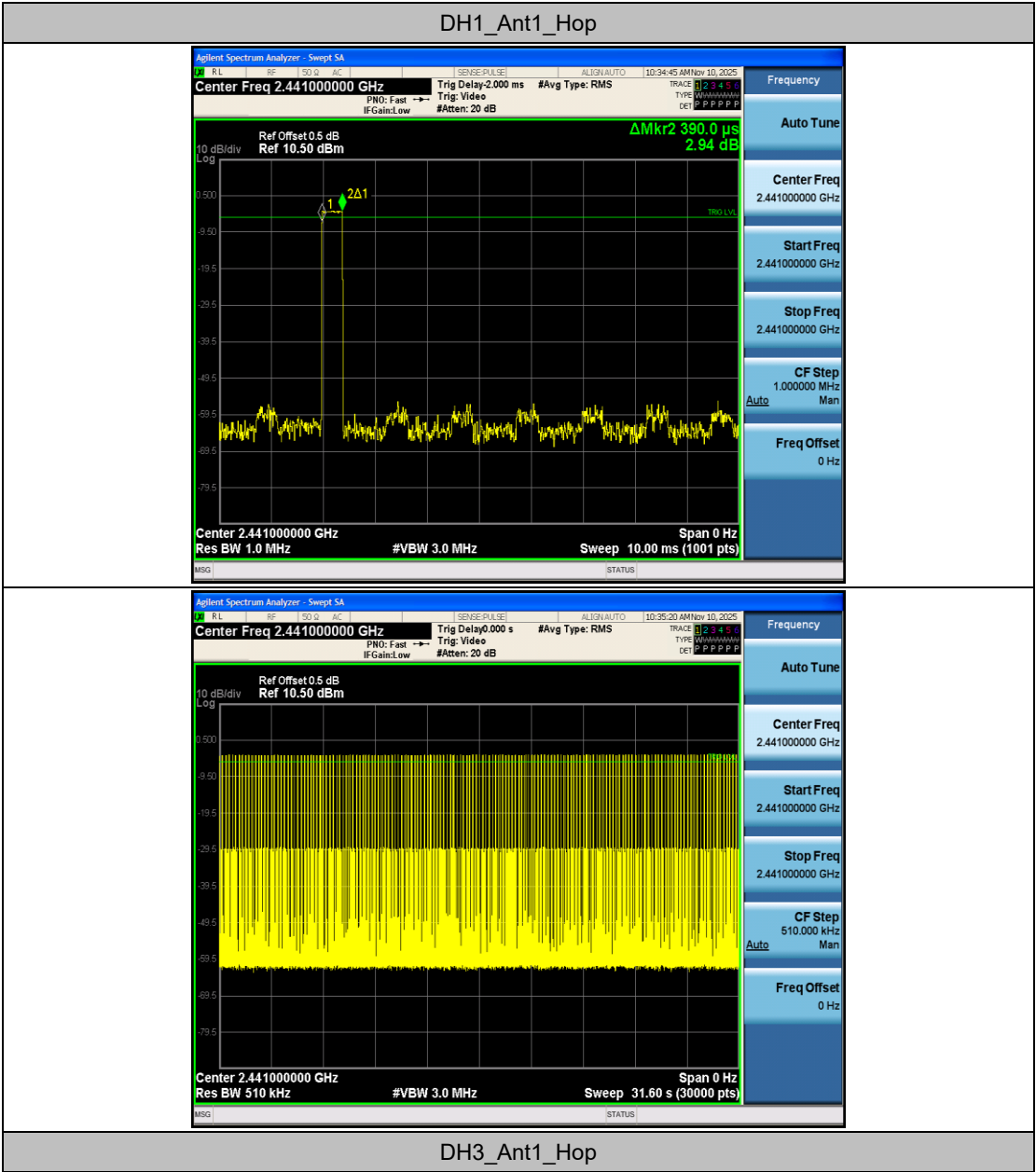


Appendix E: Time of occupancy

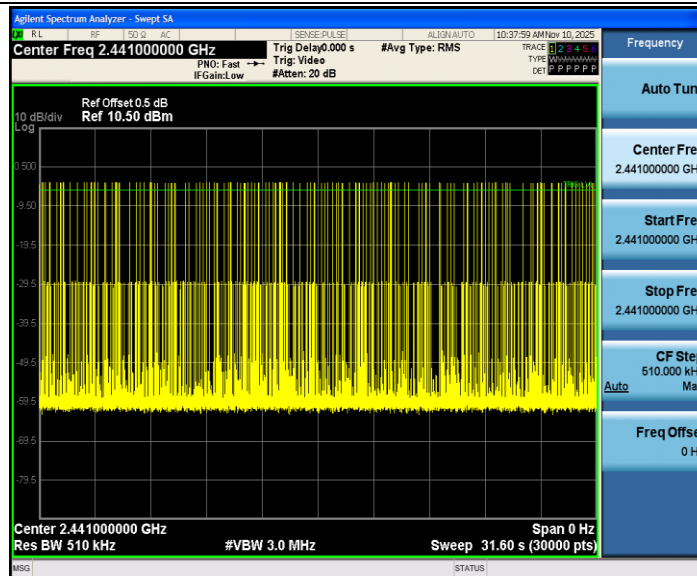
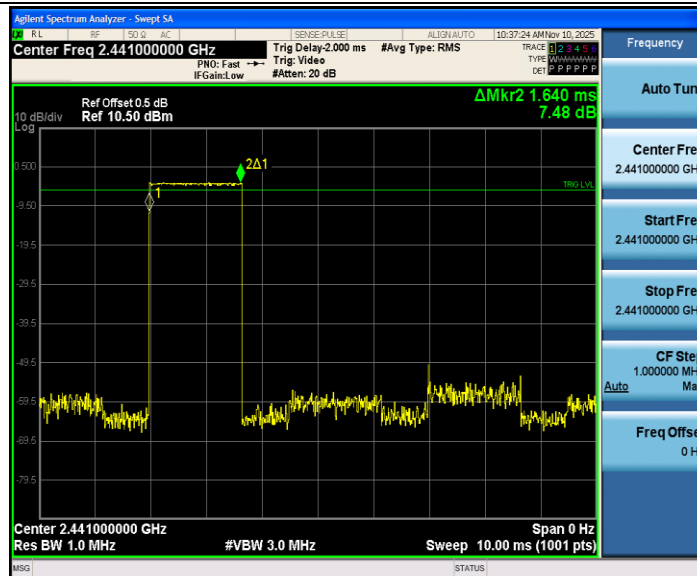
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	156	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.900	101	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	154	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.900	103	0.299	≤0.4	PASS

Test Graphs

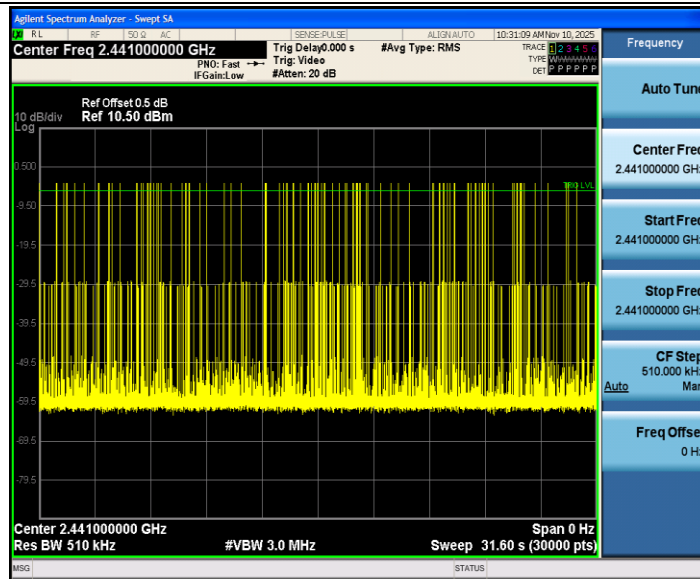


DH3_Ant1_Hop

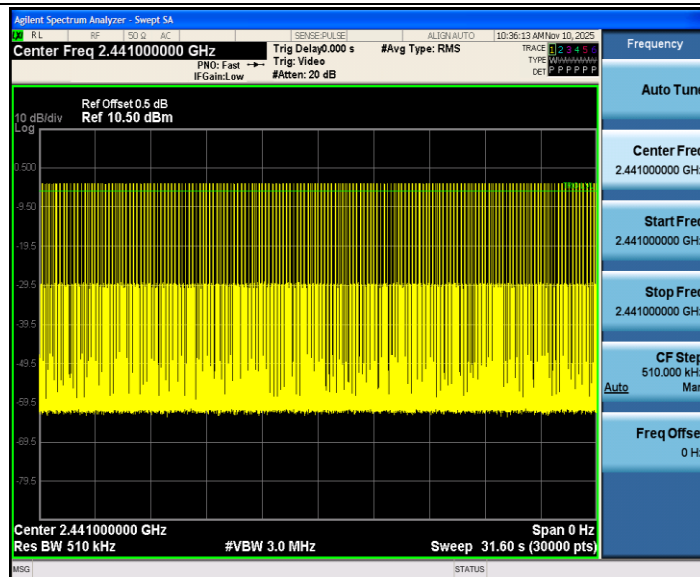
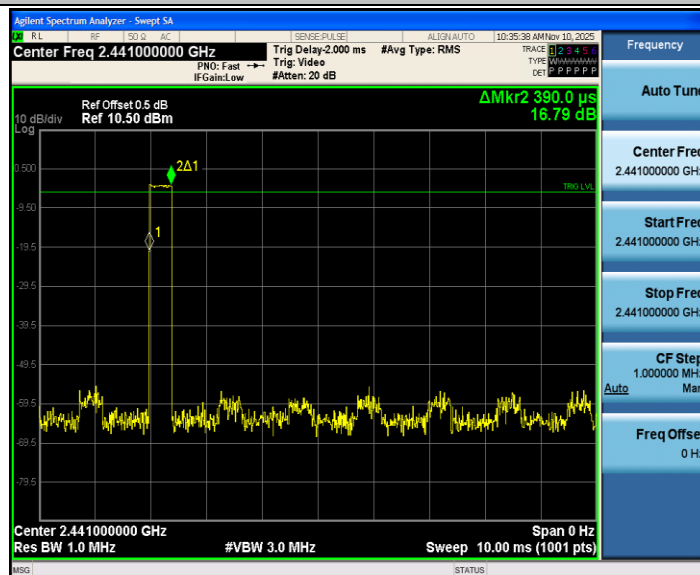


DH5_Ant1_Hop

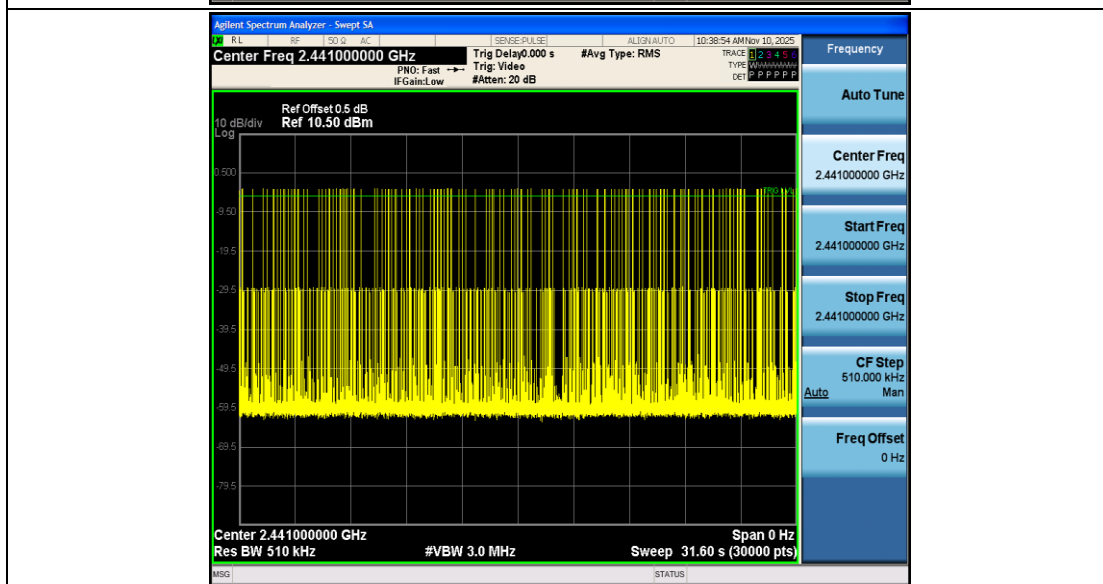




2DH1_Ant1_Hop

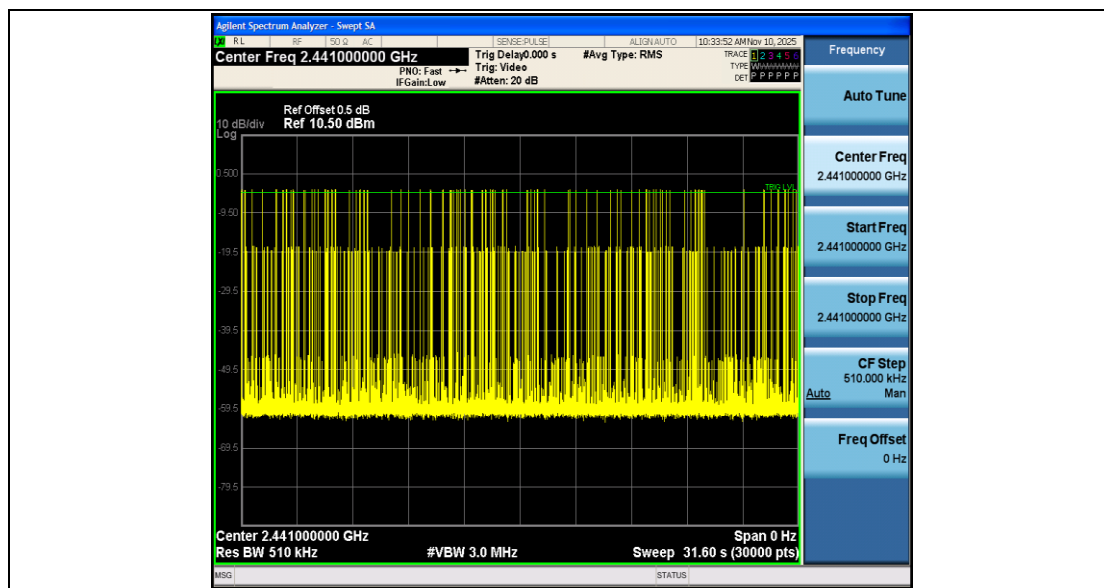


2DH3_Ant1_Hop



2DH5_Ant1_Hop





Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

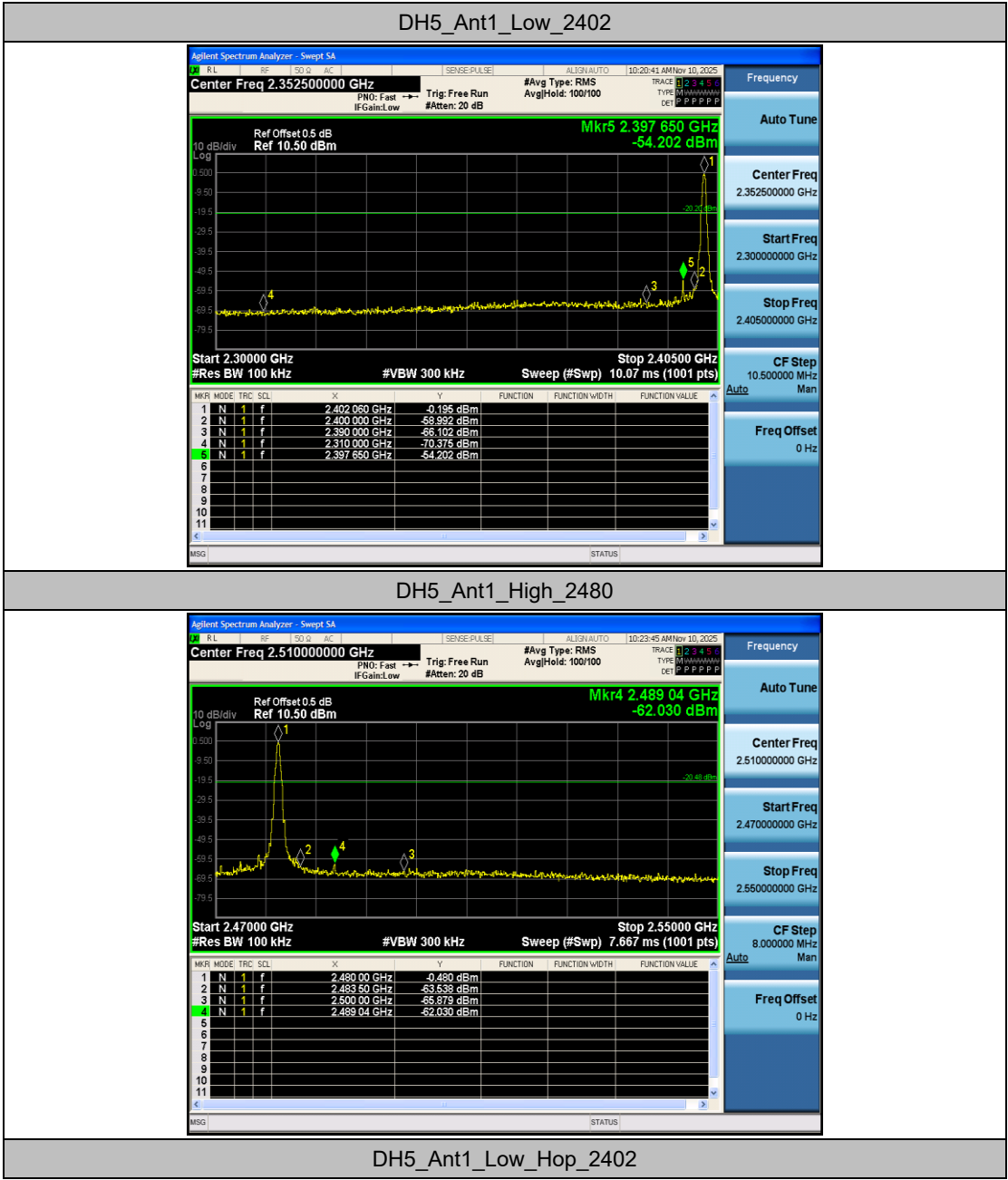


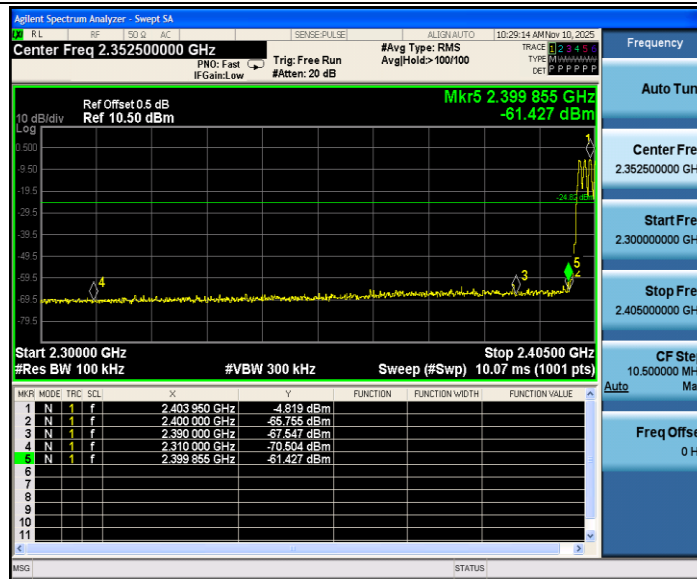
Appendix G: Band edge measurements

Test Result

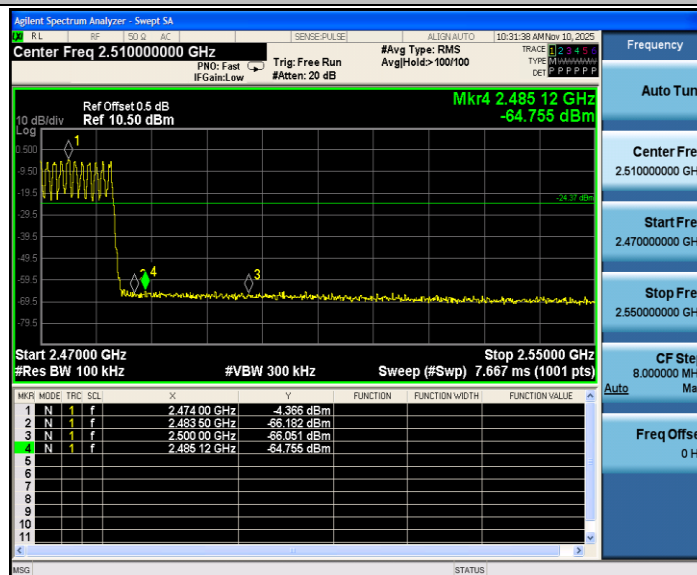
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.20	-54.2	≤-20.2	PASS
		High	2480	-0.48	-62.03	≤-20.48	PASS
		Low	Hop_2402	-4.82	-61.43	≤-24.82	PASS
		High	Hop_2480	-4.37	-64.76	≤-24.37	PASS
2DH5	Ant1	Low	2402	-4.64	-58.21	≤-24.64	PASS
		High	2480	-4.37	-61.85	≤-24.37	PASS
		Low	Hop_2402	-4.34	-61.44	≤-24.34	PASS
		High	Hop_2480	-7.36	-64.47	≤-27.36	PASS

Test Graphs

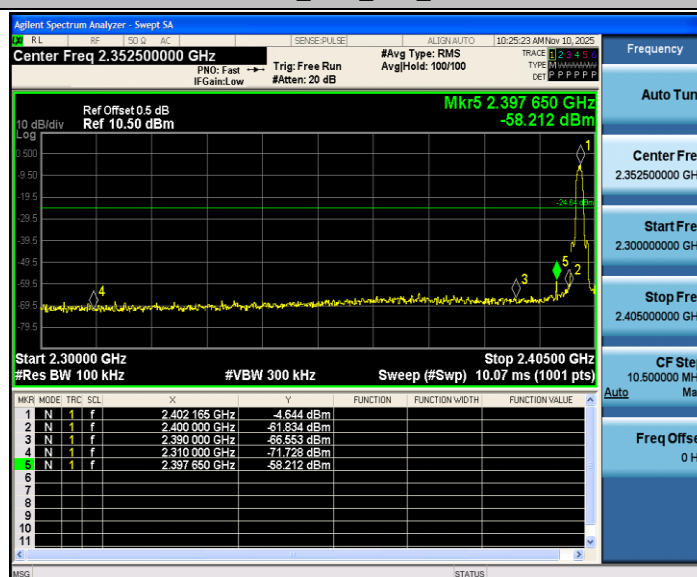




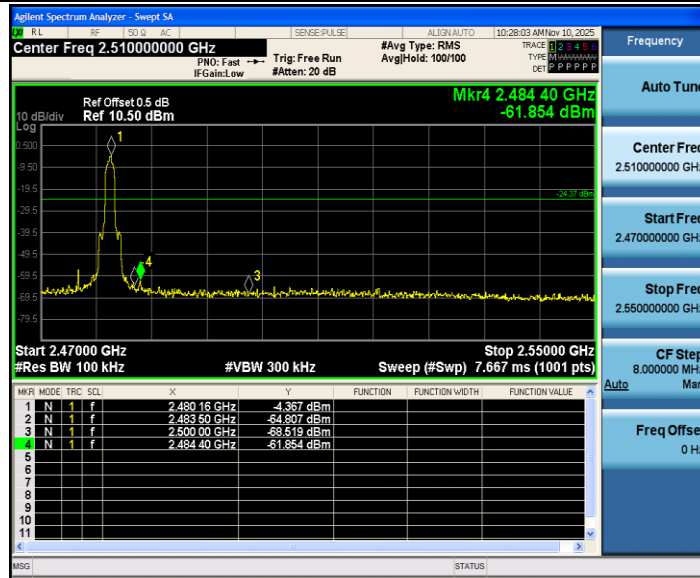
DH5_Ant1_High_Hop_2480



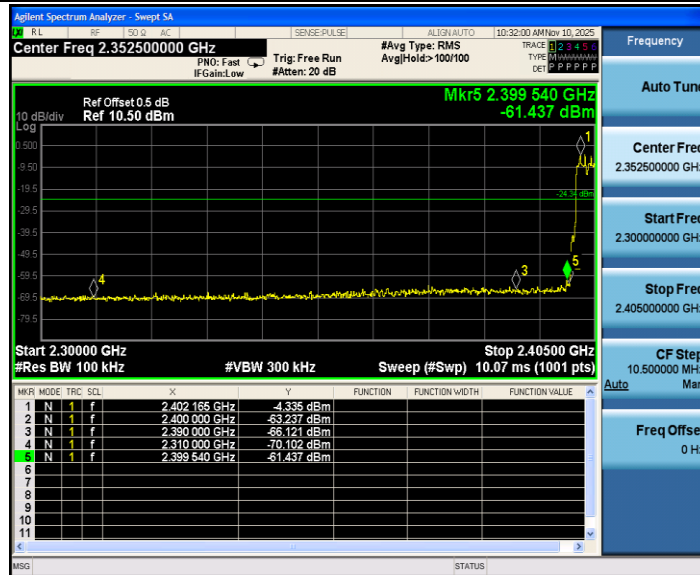
2DH5_Ant1_Low_2402



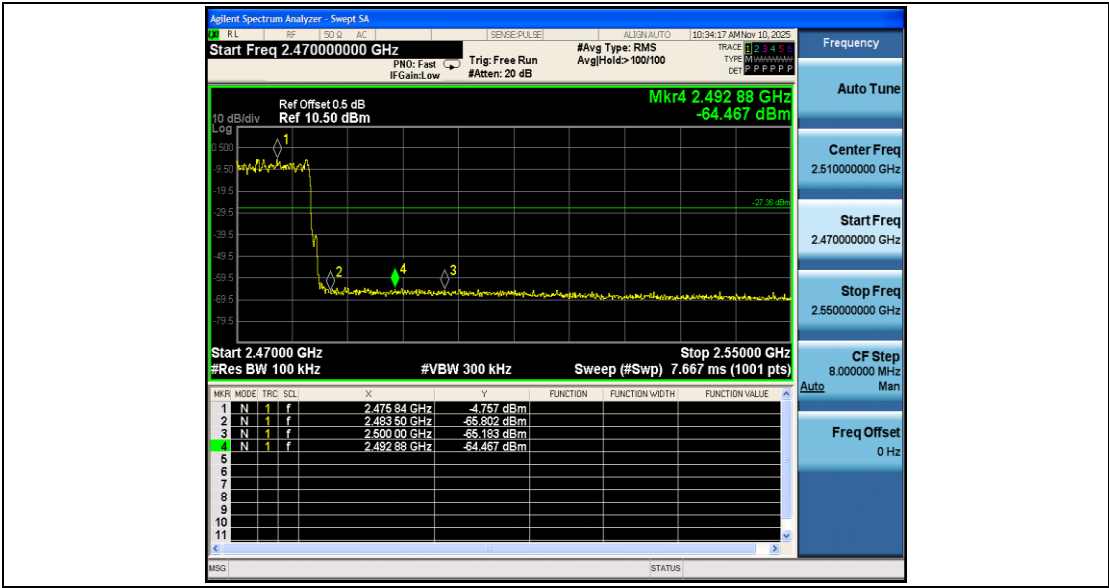
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

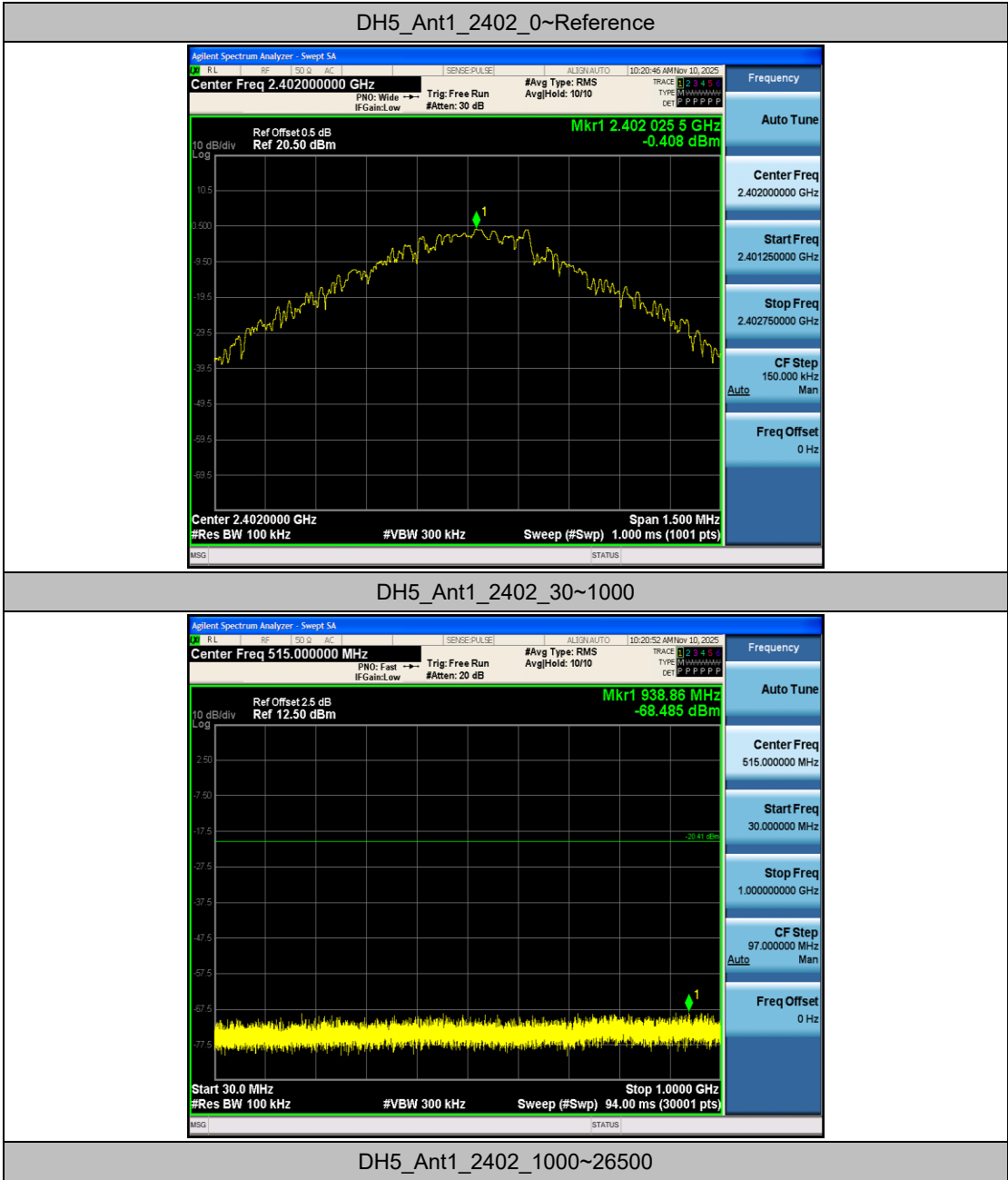


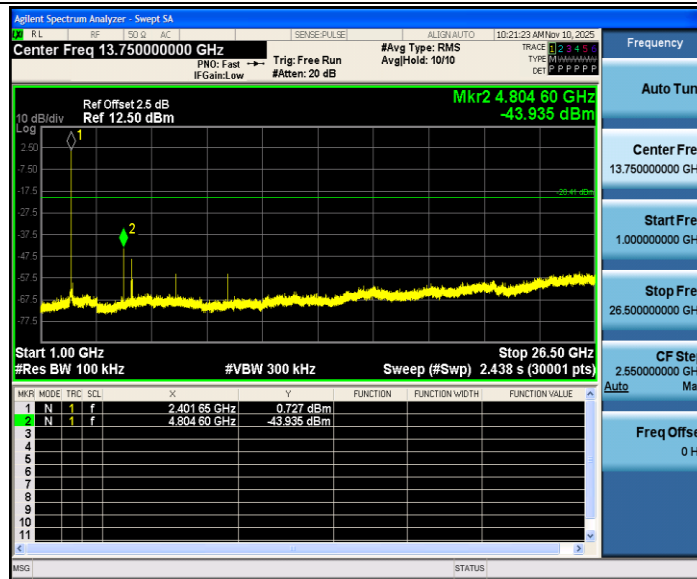
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.49	≤-20.41	PASS
			1000~26500	-0.41	-43.94	≤-20.41	PASS
		2441	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-67.86	≤-21.2	PASS
			1000~26500	-1.20	-43.5	≤-21.2	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-67.84	≤-21.06	PASS
			1000~26500	-1.06	-43.56	≤-21.06	PASS
2DH5	Ant1	2402	Reference	-5.08	-5.08	---	PASS
			30~1000	-5.08	-67.75	≤-25.08	PASS
			1000~26500	-5.08	-48.08	≤-25.08	PASS
		2441	Reference	-6.49	-6.49	---	PASS
			30~1000	-6.49	-68.02	≤-26.49	PASS
			1000~26500	-6.49	-49.35	≤-26.49	PASS
		2480	Reference	-5.42	-5.42	---	PASS
			30~1000	-5.42	-66.74	≤-25.42	PASS
			1000~26500	-5.42	-46.28	≤-25.42	PASS

Test Graphs

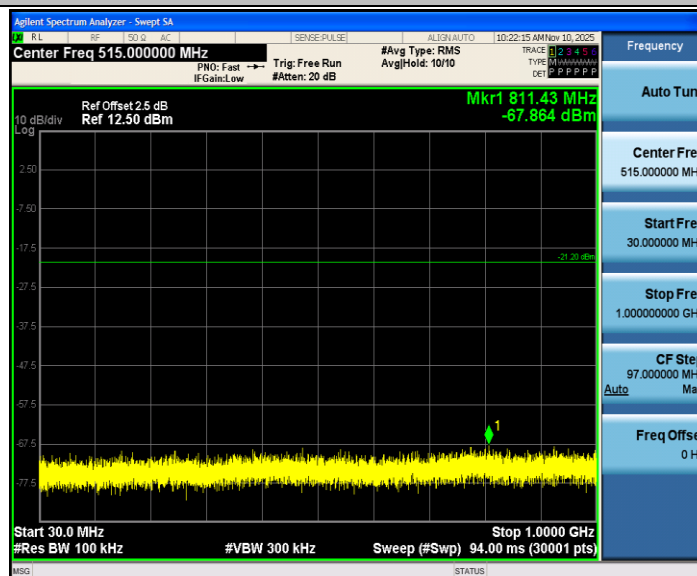




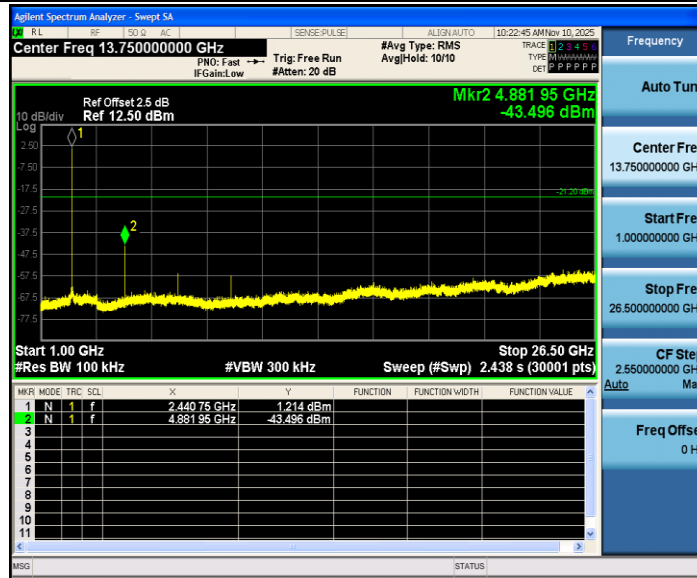
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



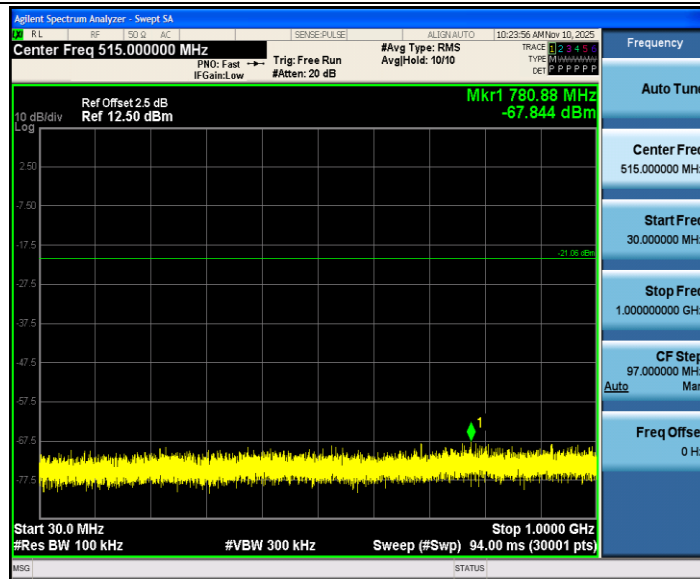
DH5_Ant1_2441_1000~26500



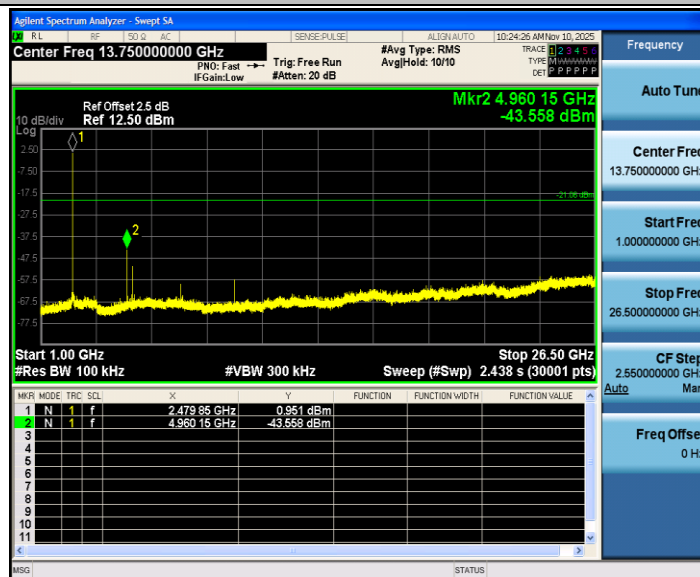
DH5_Ant1_2480_0~Reference



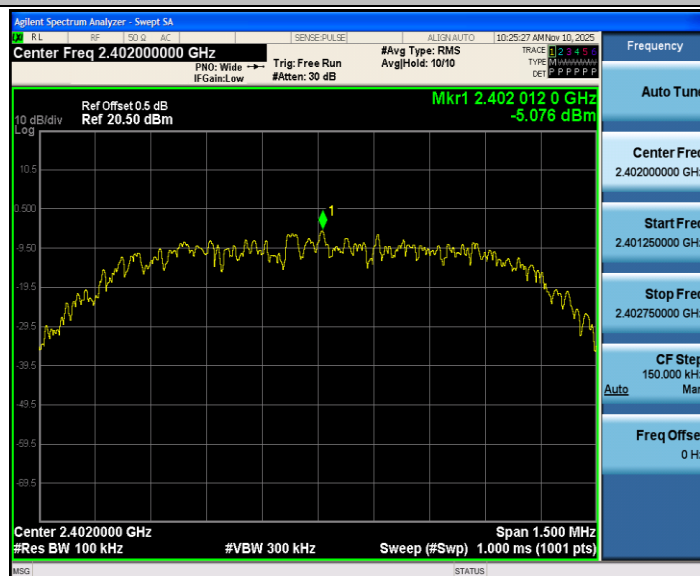
DH5_Ant1_2480_30~1000



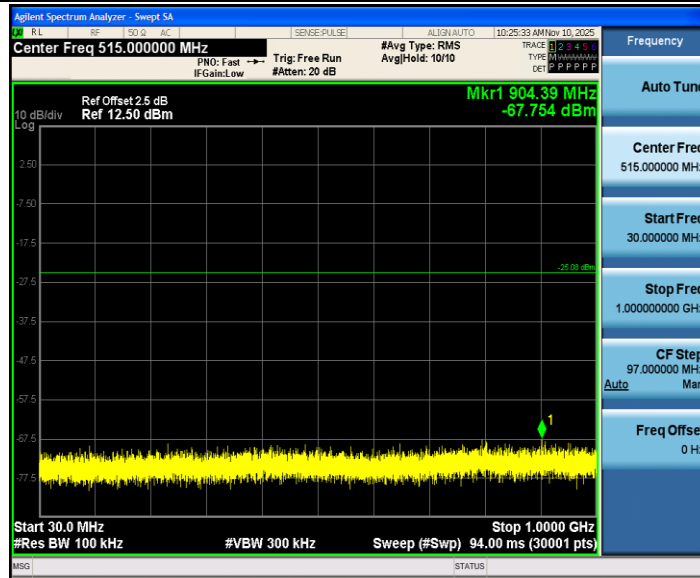
DH5_Ant1_2480_1000~26500



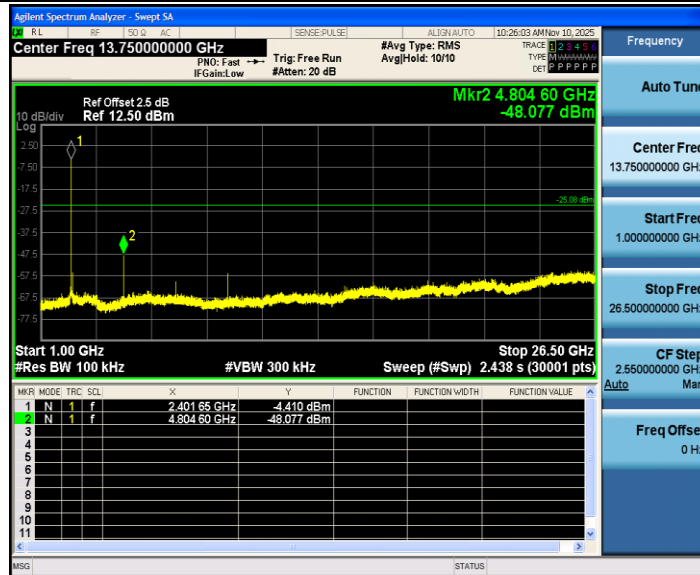
2DH5_Ant1_2402_0~Reference



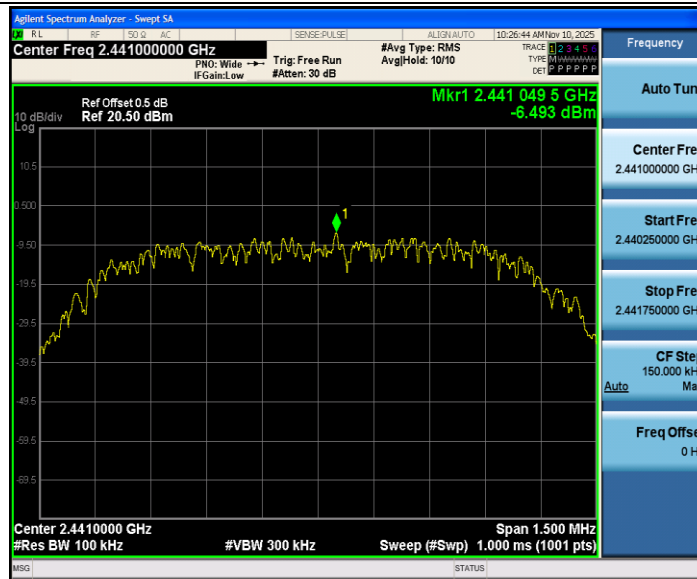
2DH5_Ant1_2402_30~1000



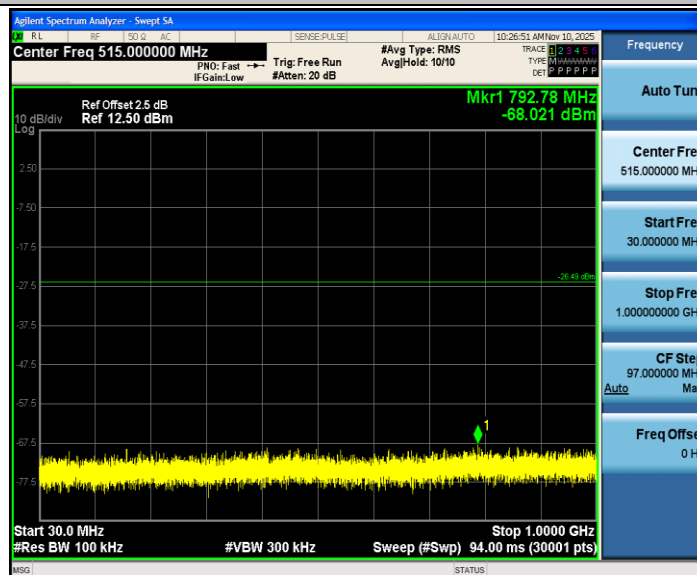
2DH5_Ant1_2402_1000~26500



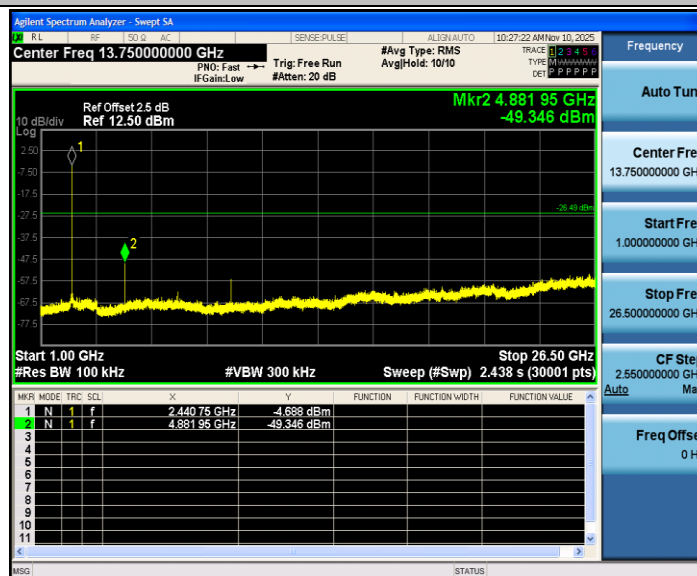
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



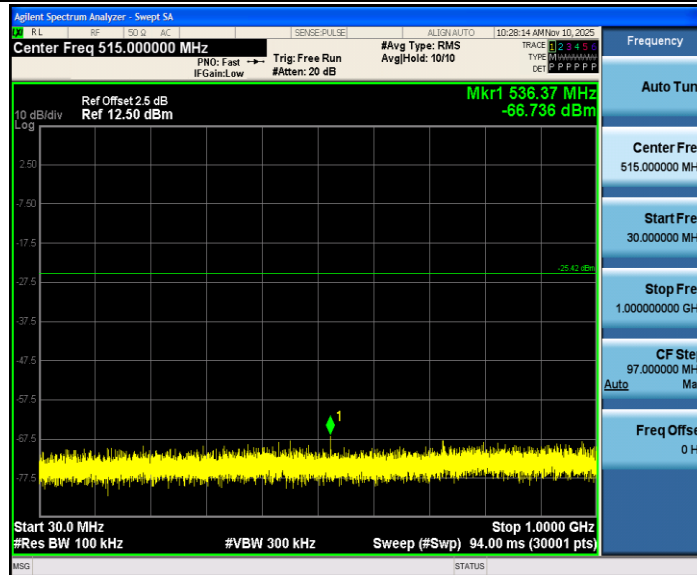
2DH5_Ant1_2441_1000~26500



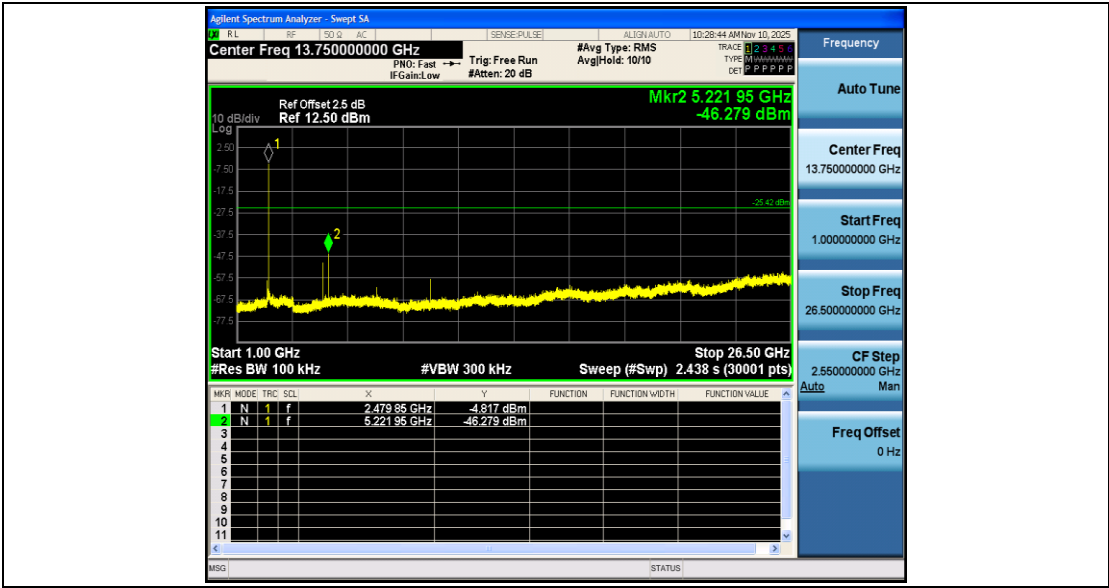
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

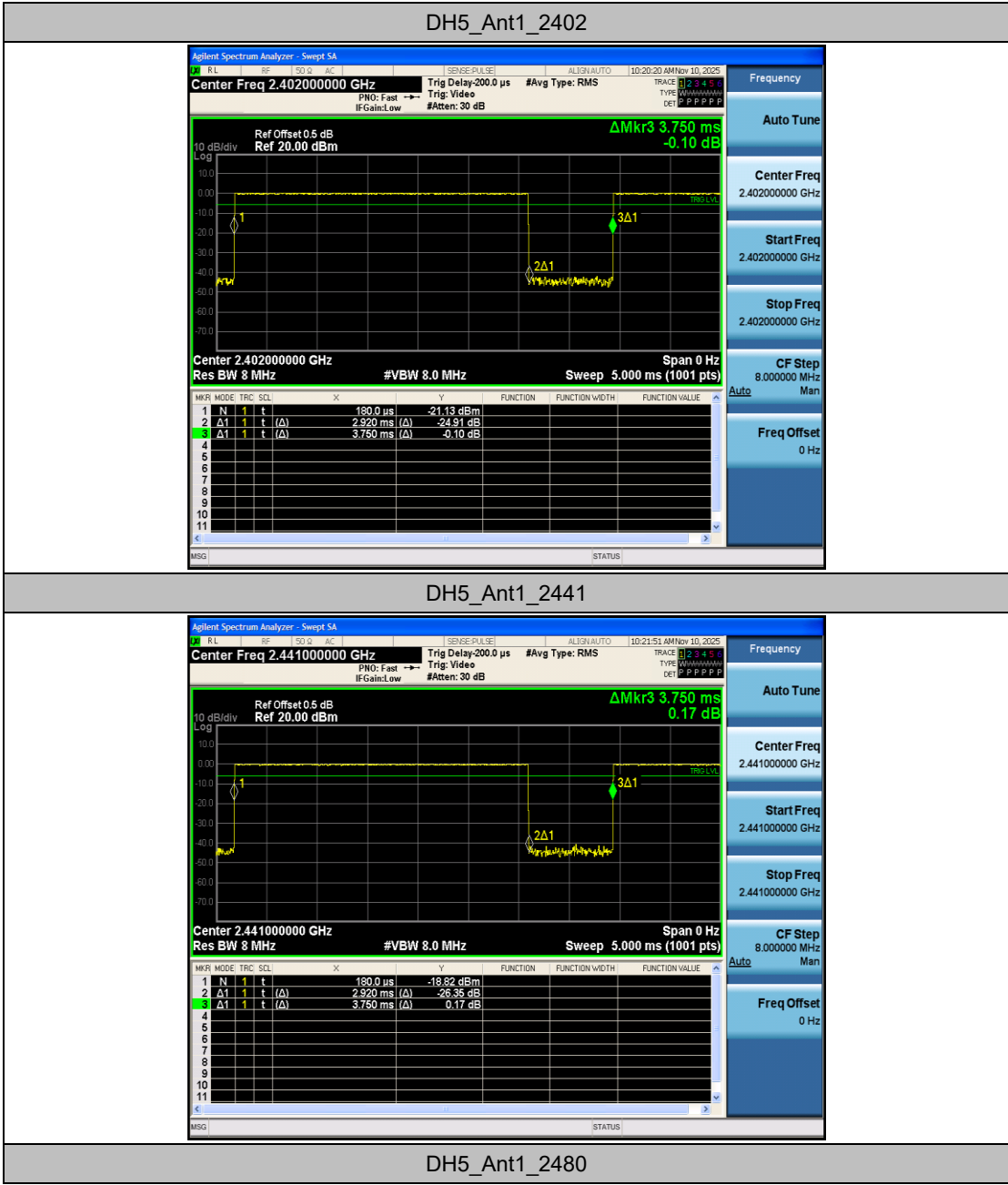


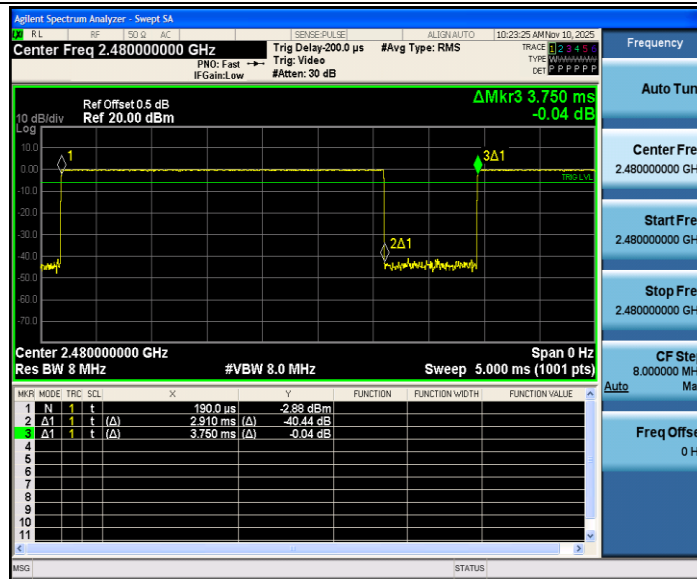
Appendix I: Duty Cycle

Test Result

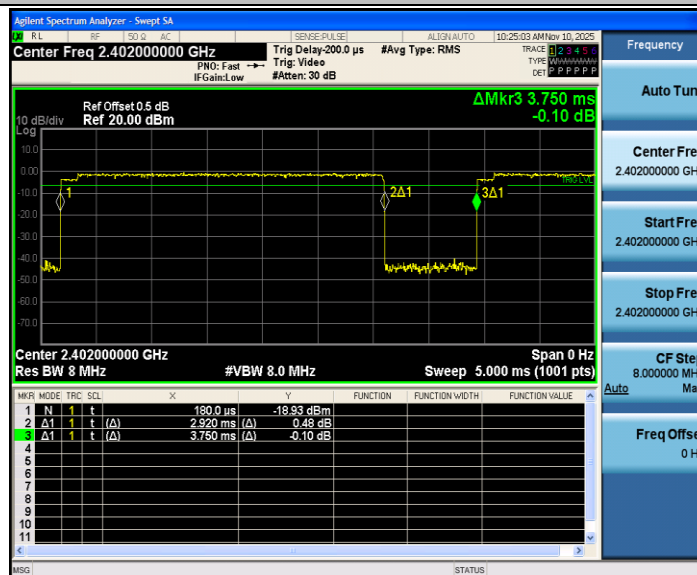
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---

Test Graphs

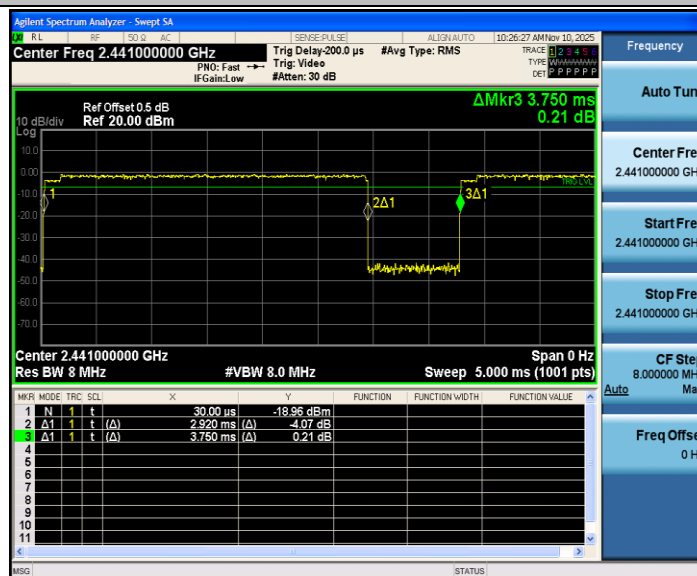




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

