

FCC Appendix RF Test Data for BT

FCC ID : 2AZV6-M10

Company : Shenzhen Kangmingrui Technology Co., Ltd

EUT : Bluetooth speaker

Model Number : M10

Report No. : CTA25100901201

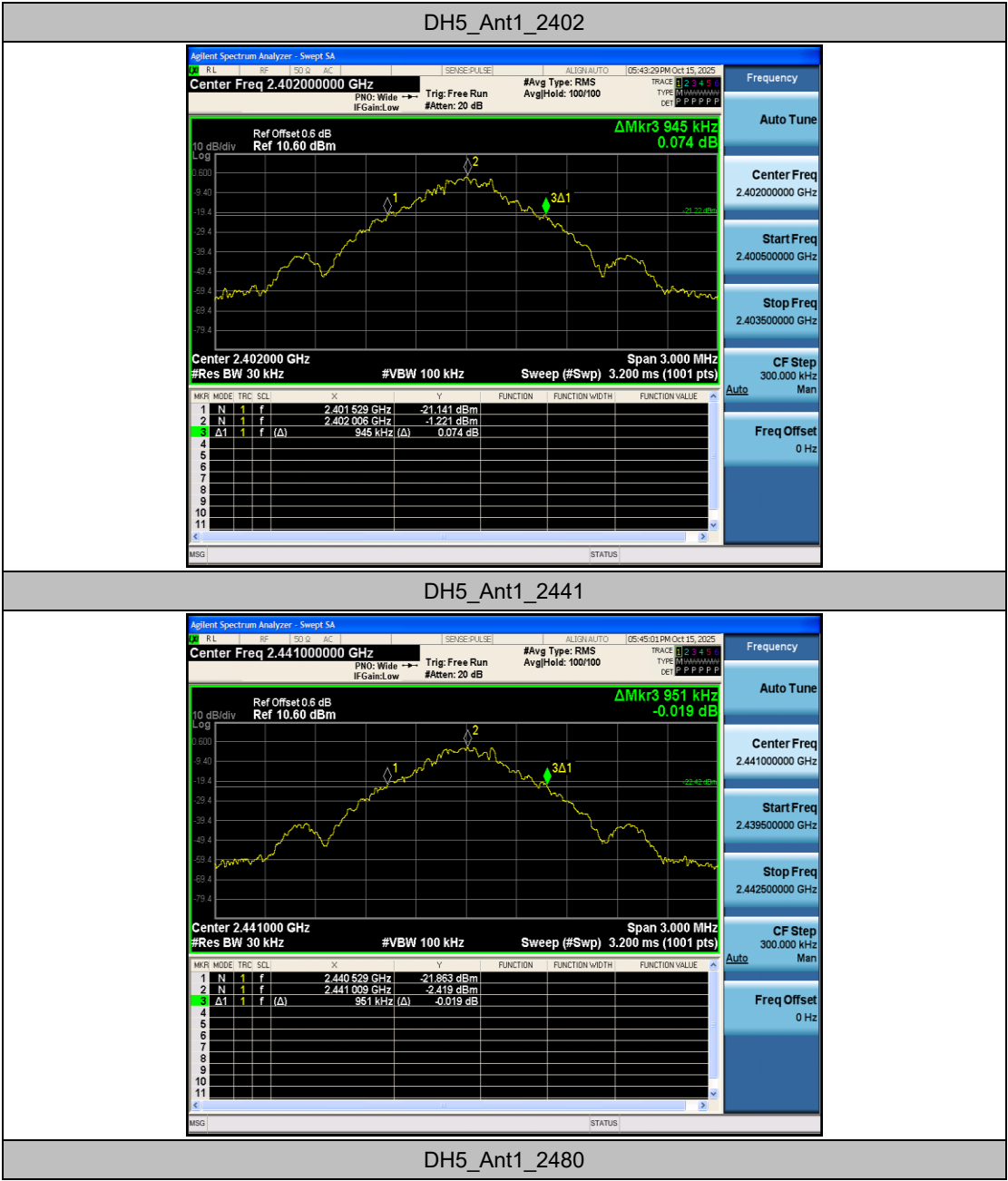
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.529	2402.474	---	---
		2441	0.951	2440.529	2441.480	---	---
		2480	0.954	2479.520	2480.474	---	---
2DH5	Ant1	2402	1.440	2401.256	2402.696	---	---
		2441	1.428	2440.262	2441.690	---	---
		2480	1.422	2479.265	2480.687	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

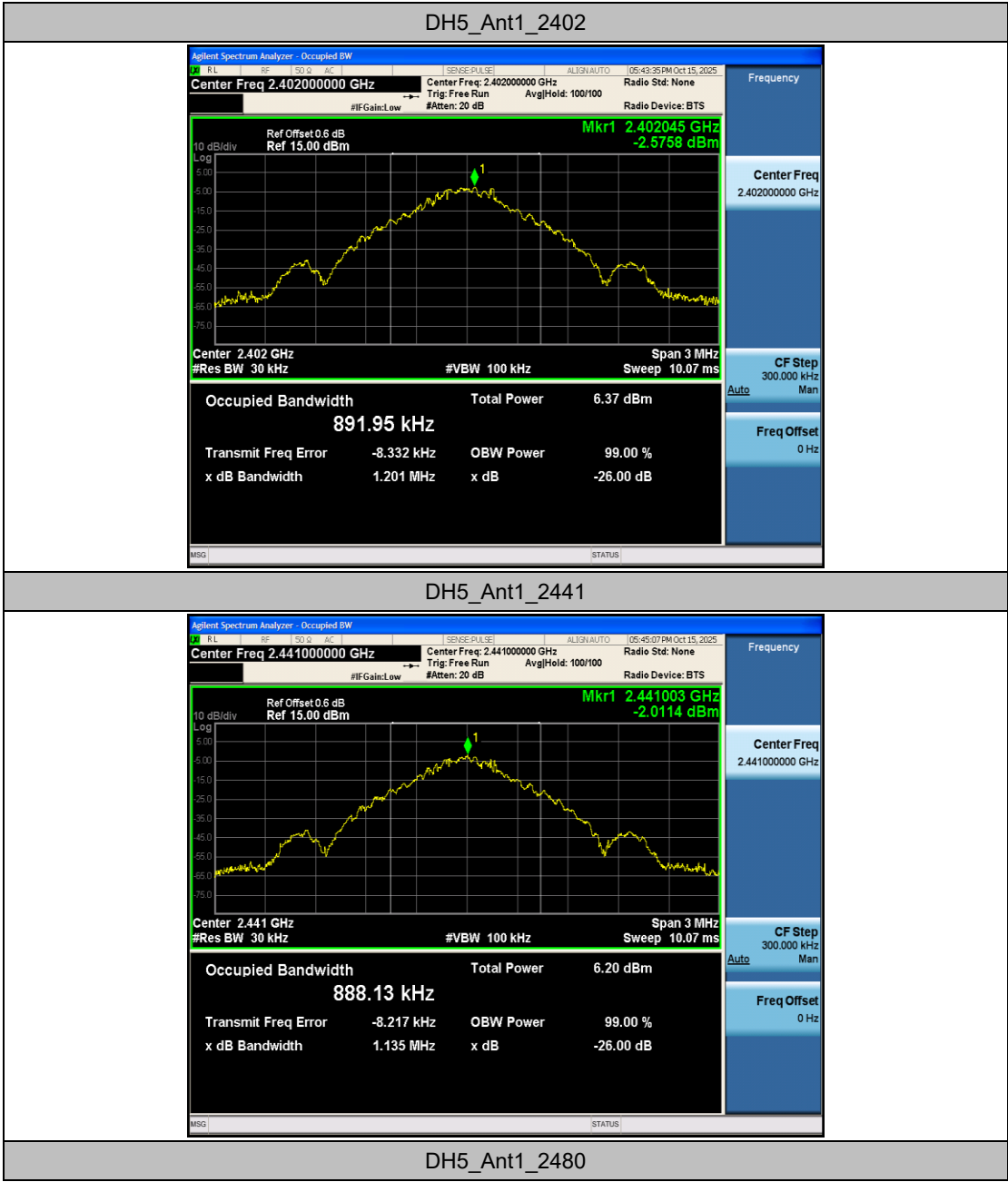


Appendix B: Occupied Channel Bandwidth

Test Result

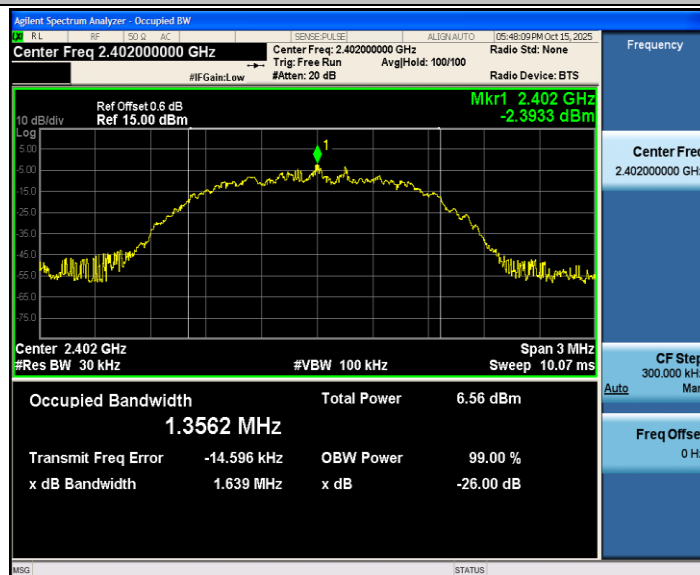
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89195	2401.5457	2402.4376	---	---
		2441	0.88813	2440.5477	2441.4358	---	---
		2480	0.89633	2479.5416	2480.4379	---	---
2DH5	Ant1	2402	1.3562	2401.3073	2402.6635	---	---
		2441	1.3603	2440.3060	2441.6663	---	---
		2480	1.3575	2479.3043	2480.6618	---	---

Test Graphs

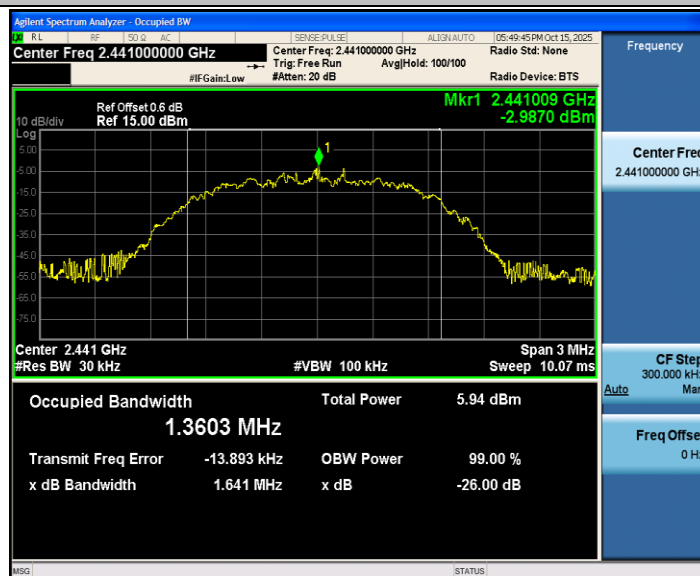




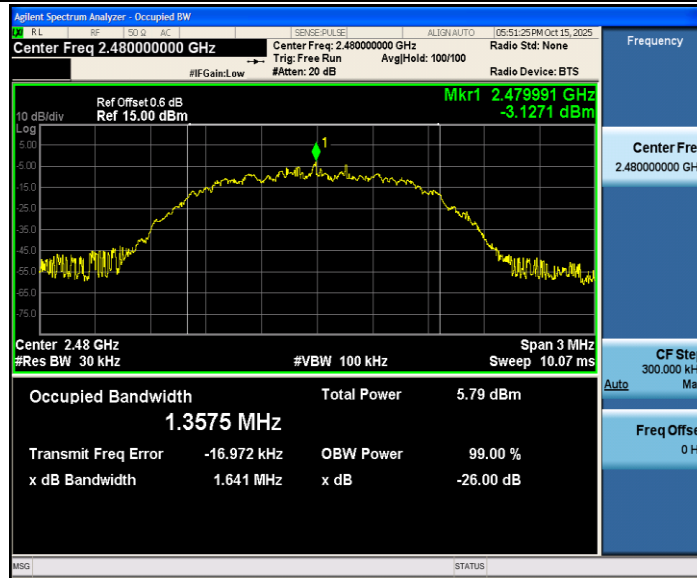
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

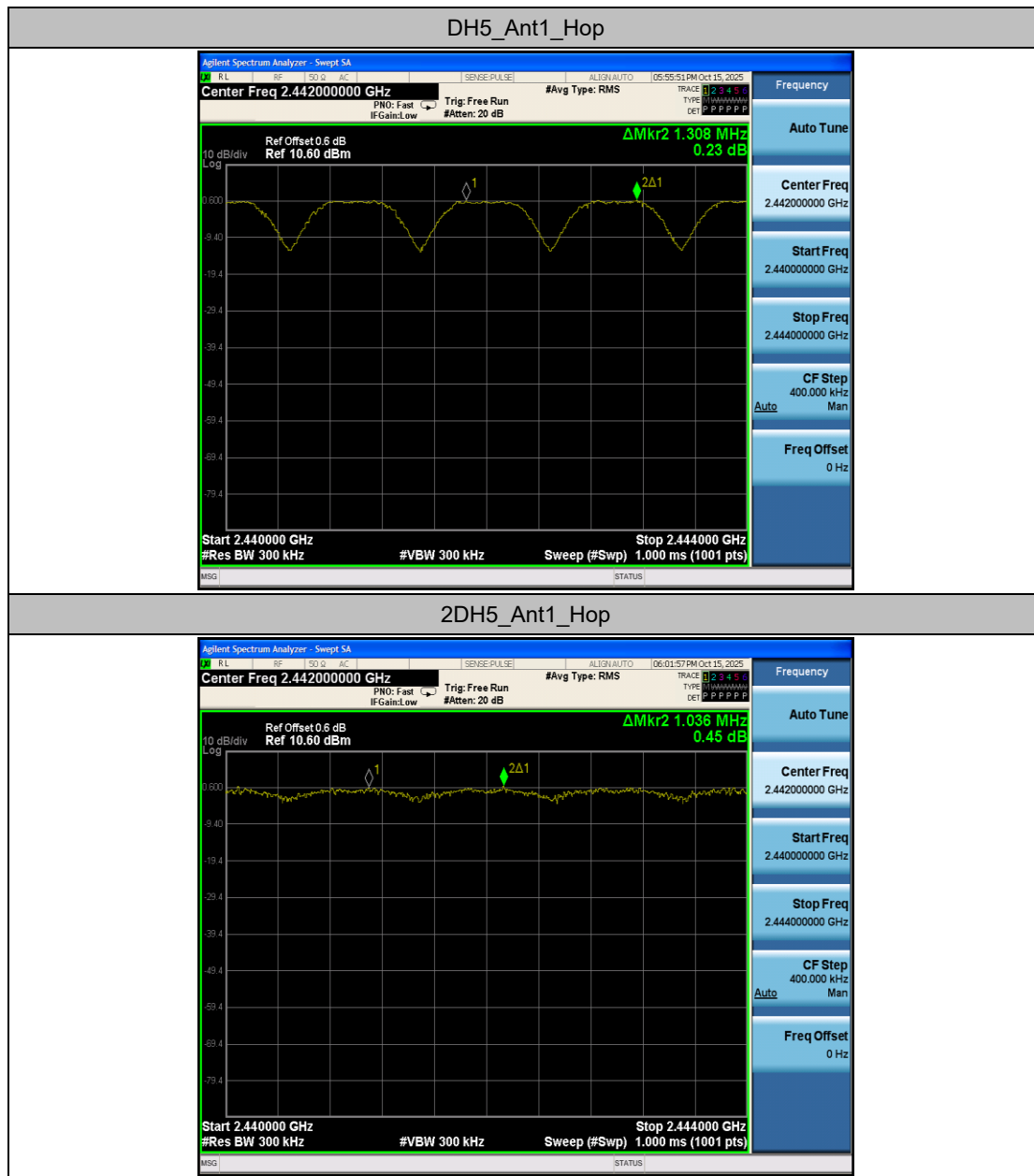
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.30	≤ 20.97	PASS
		2441	0.10	≤ 20.97	PASS
		2480	-4.27	≤ 20.97	PASS
2DH5	Ant1	2402	1.88	≤ 20.97	PASS
		2441	1.76	≤ 20.97	PASS
		2480	1.47	≤ 20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.308	≥ 0.954	PASS
2DH5	Ant1	Hop	1.036	≥ 0.960	PASS

Test Graphs

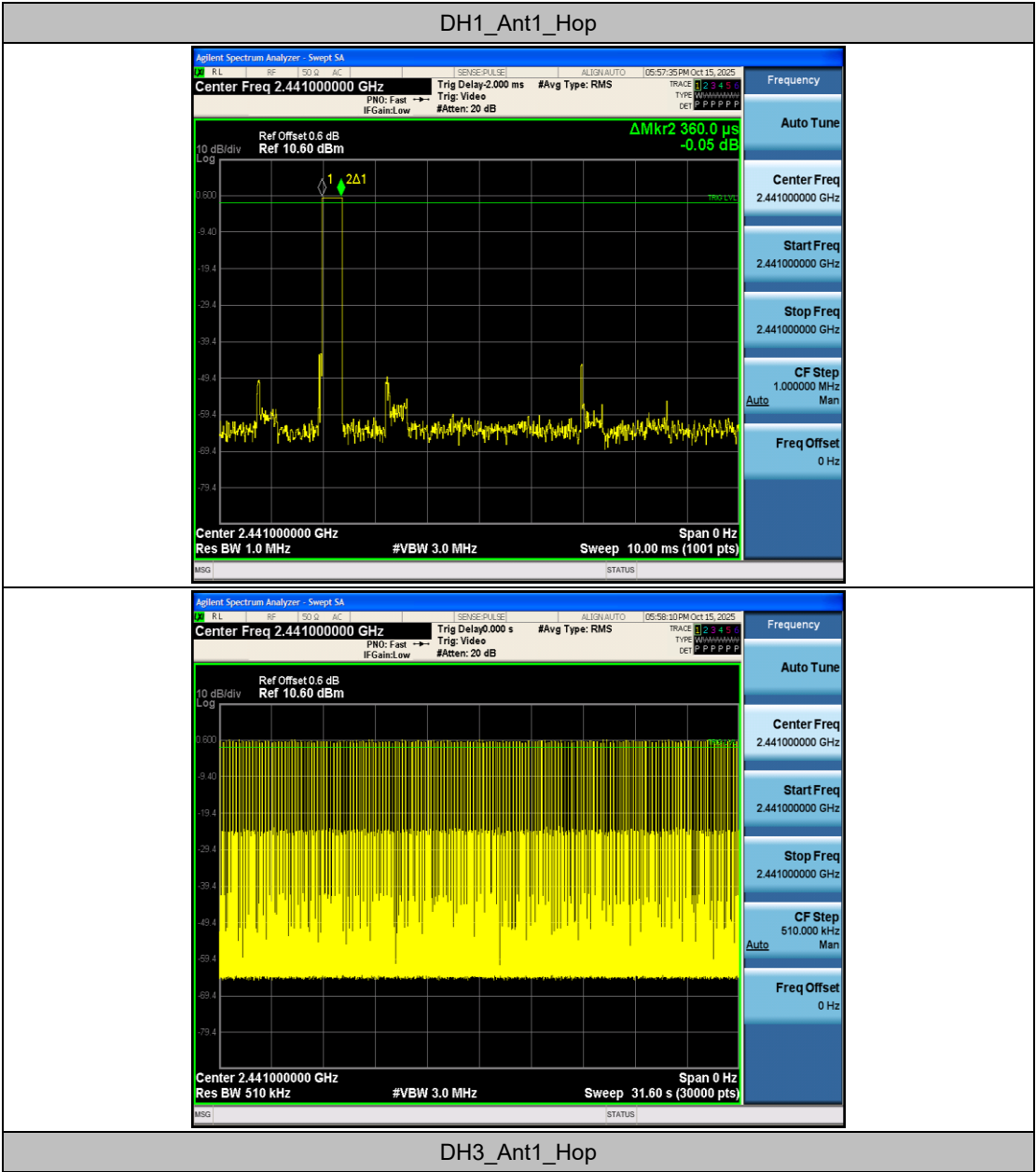


Appendix E: Time of occupancy

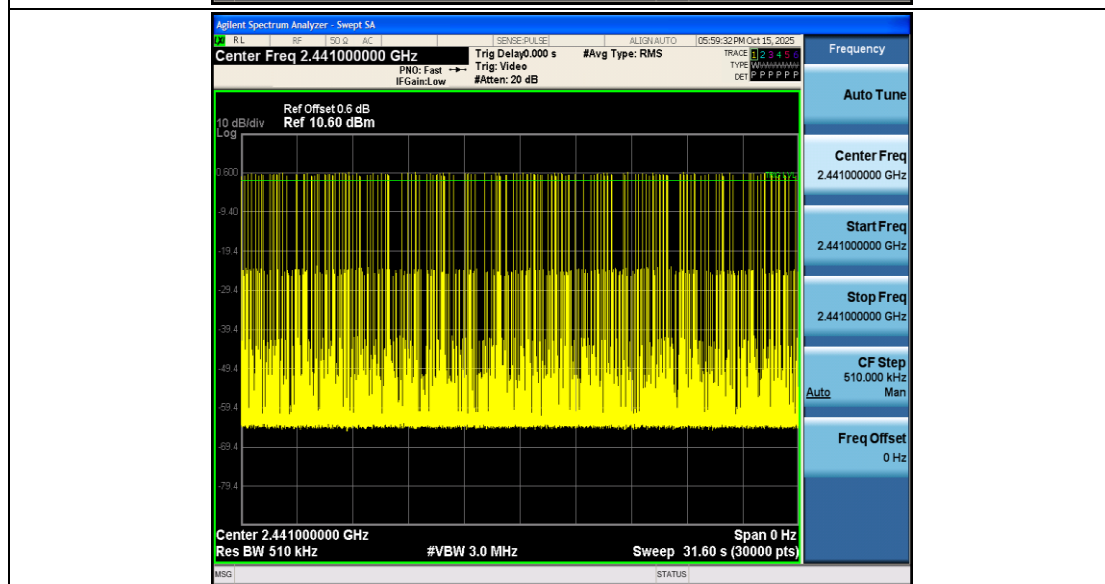
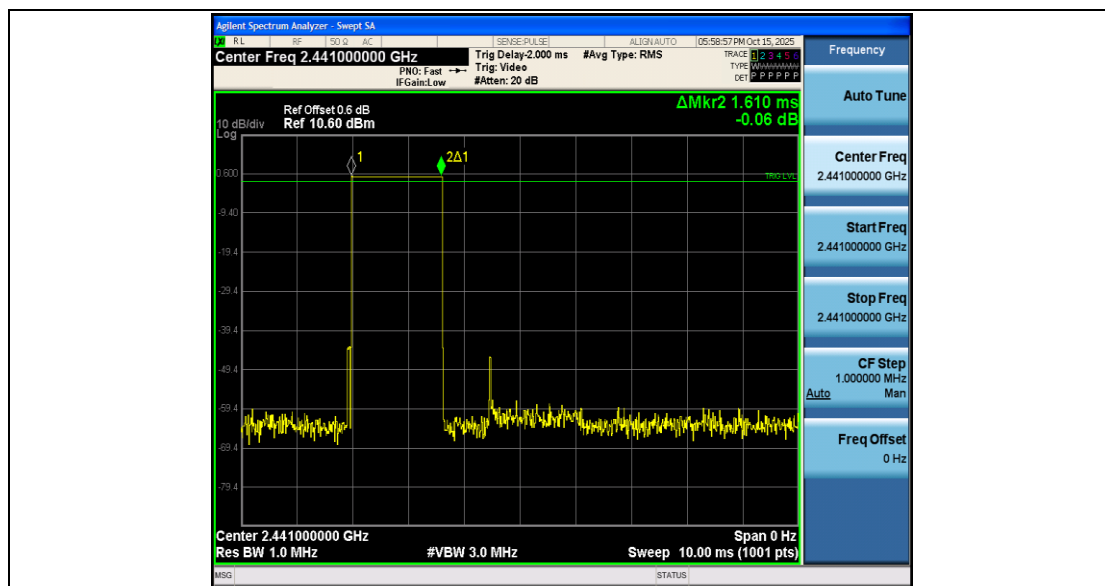
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	319	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.610	164	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.870	106	0.304	≤0.4	PASS
2DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.620	164	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.870	102	0.293	≤0.4	PASS

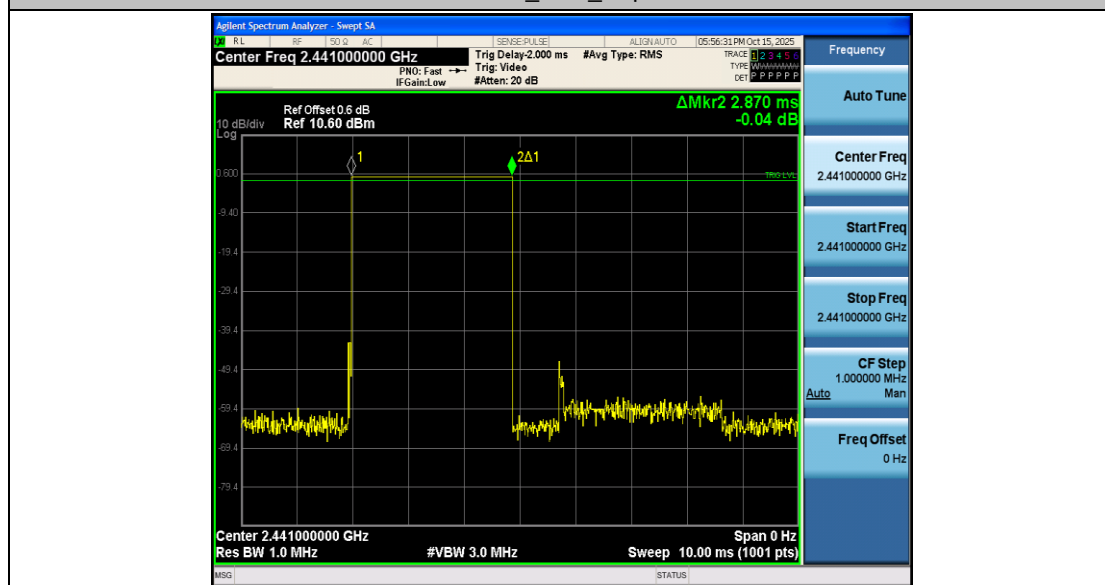
Test Graphs

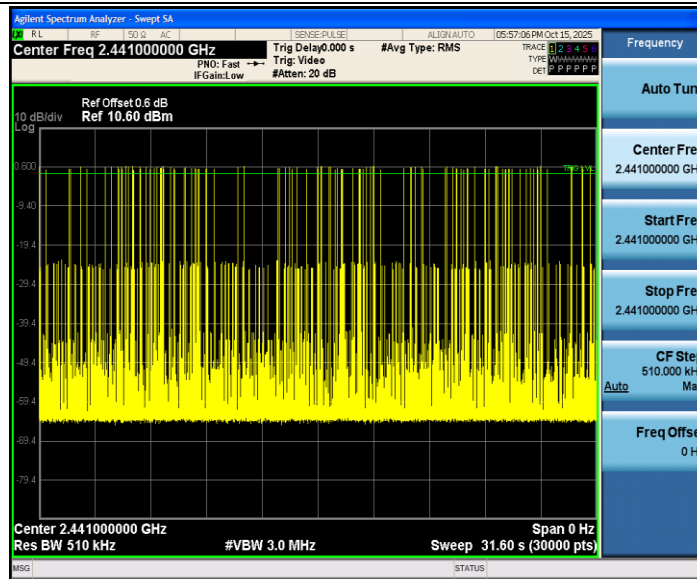


DH3_Ant1_Hop

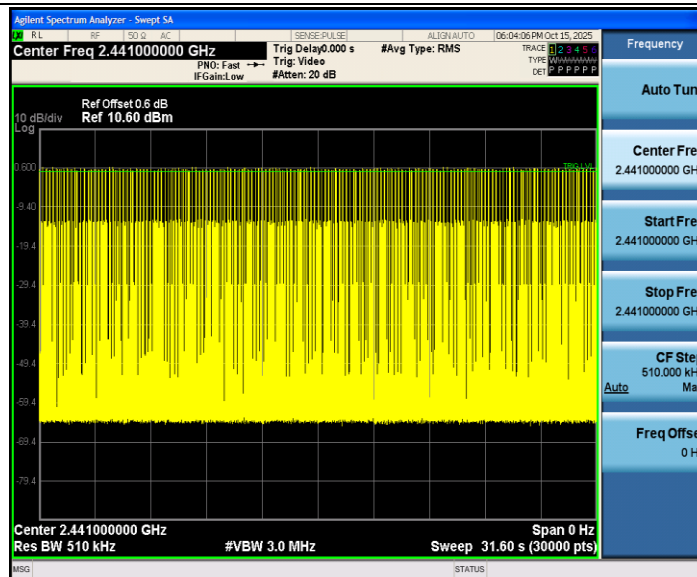
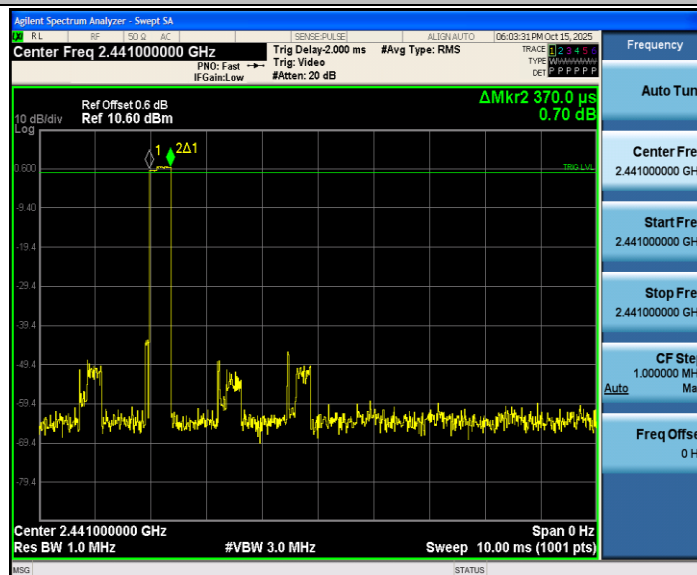


DH5_Ant1_Hop

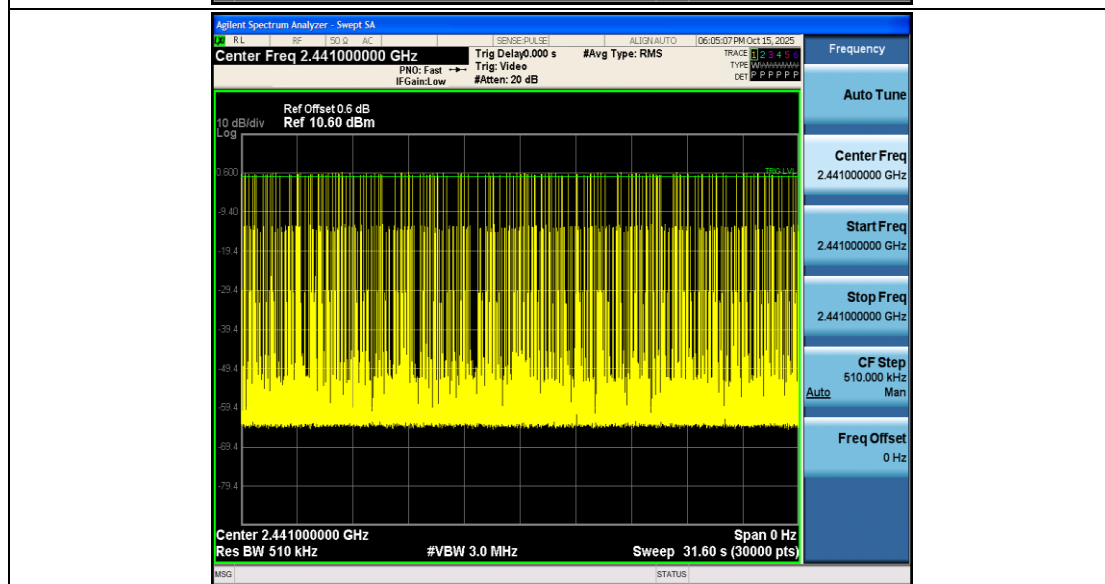
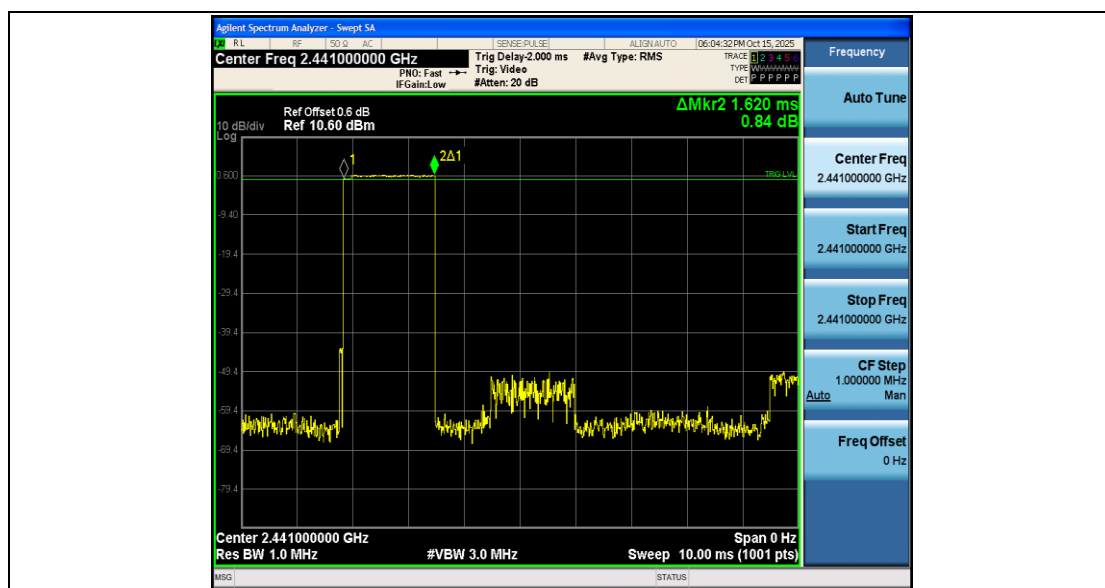




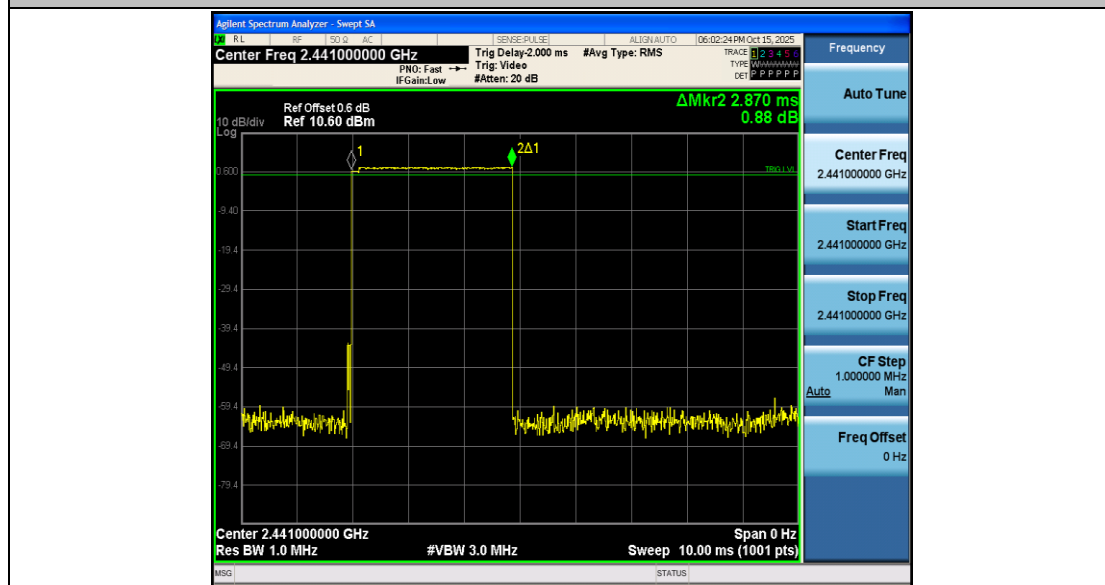
2DH1_Ant1_Hop

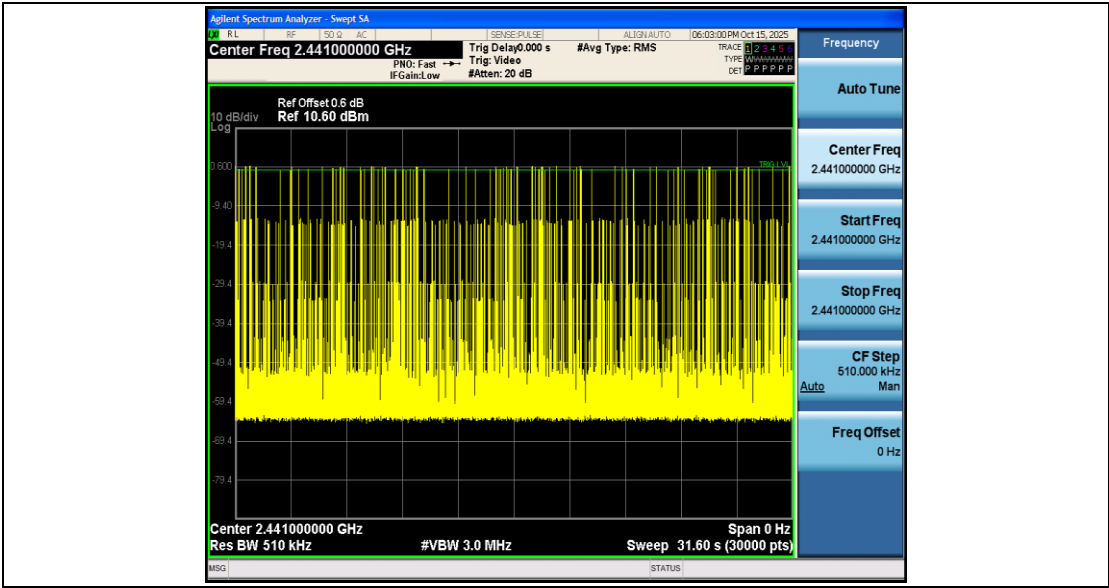


2DH3_Ant1_Hop



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

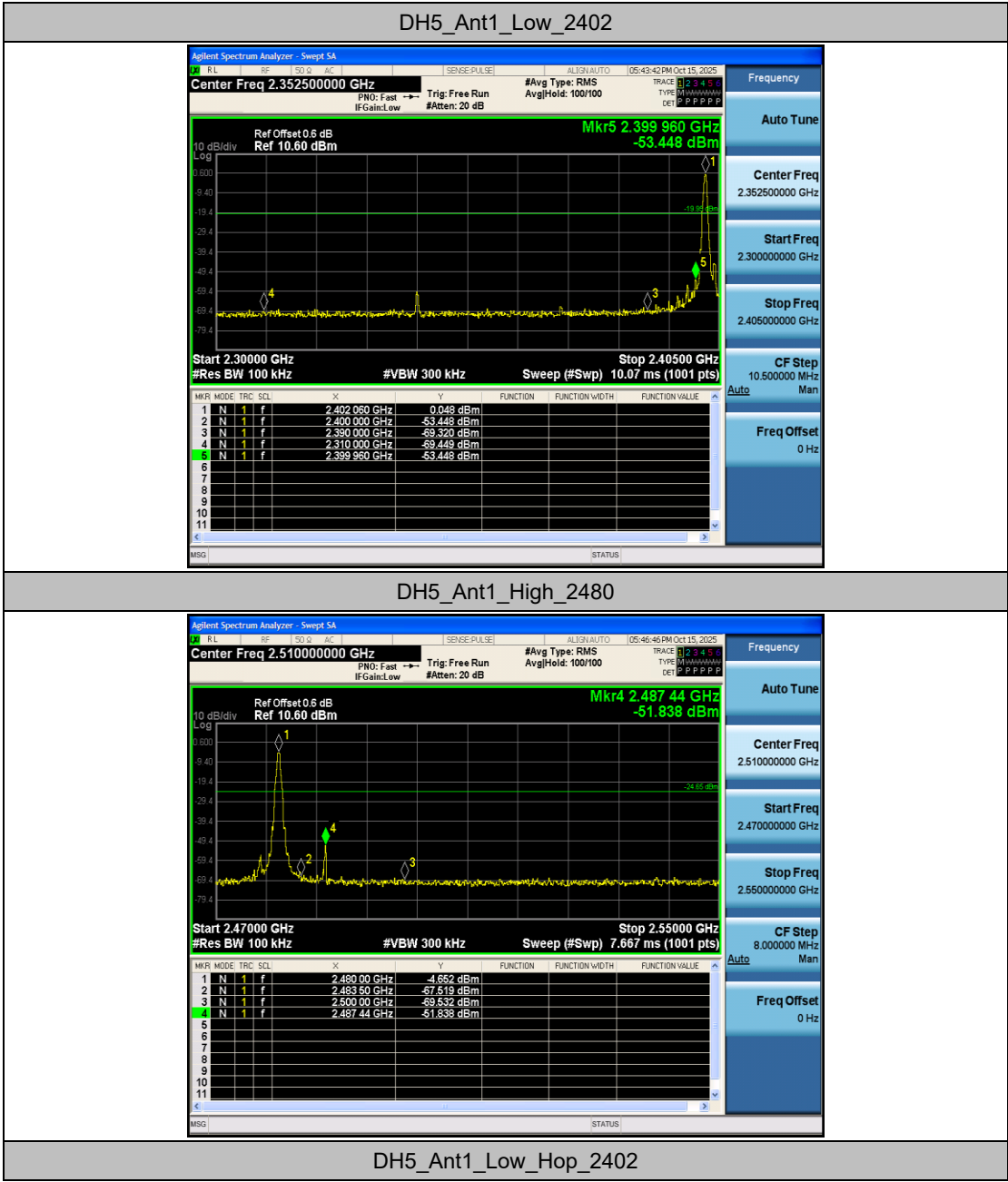


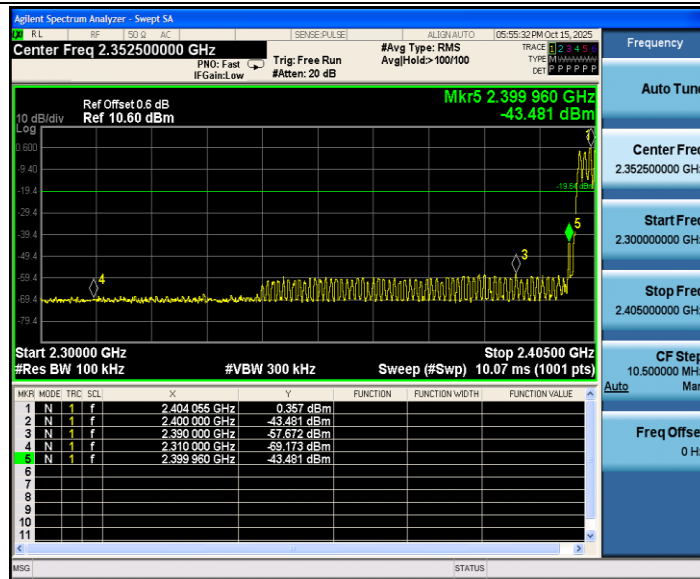
Appendix G: Band edge measurements

Test Result

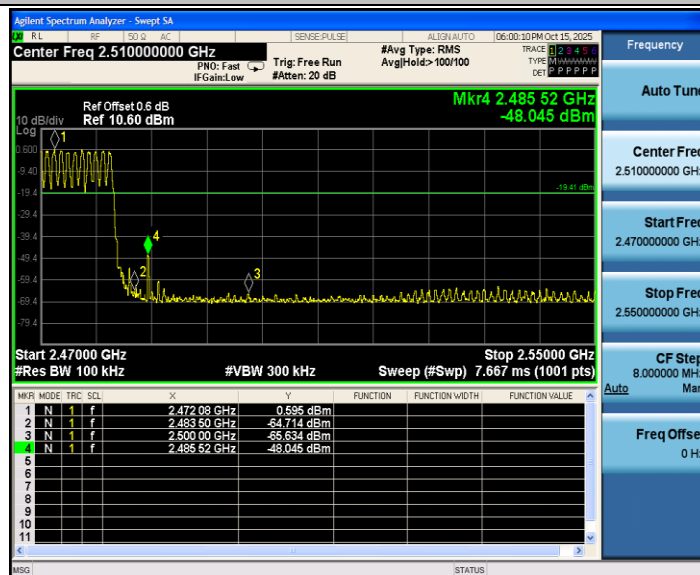
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.05	-53.45	≤-19.95	PASS
		High	2480	-4.65	-51.84	≤-24.65	PASS
		Low	Hop_2402	0.36	-43.48	≤-19.64	PASS
		High	Hop_2480	0.60	-48.05	≤-19.41	PASS
2DH5	Ant1	Low	2402	-0.14	-49.82	≤-20.14	PASS
		High	2480	-1.65	-45.61	≤-21.65	PASS
		Low	Hop_2402	-0.39	-45.87	≤-20.39	PASS
		High	Hop_2480	0.60	-56.24	≤-19.4	PASS

Test Graphs

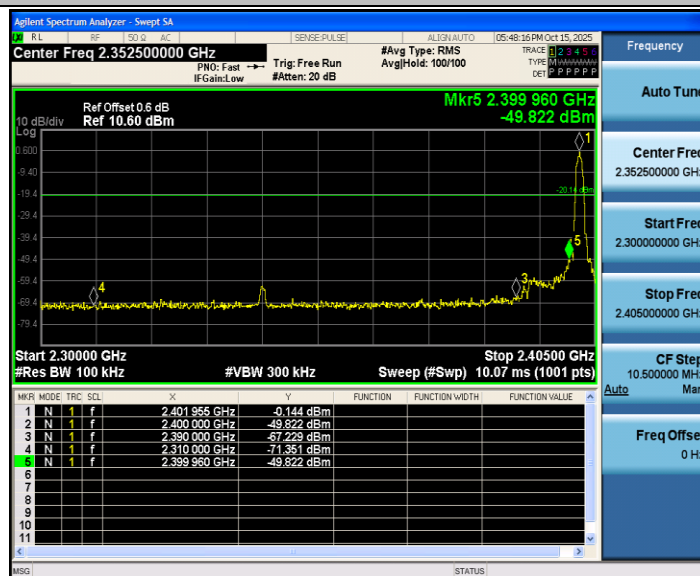




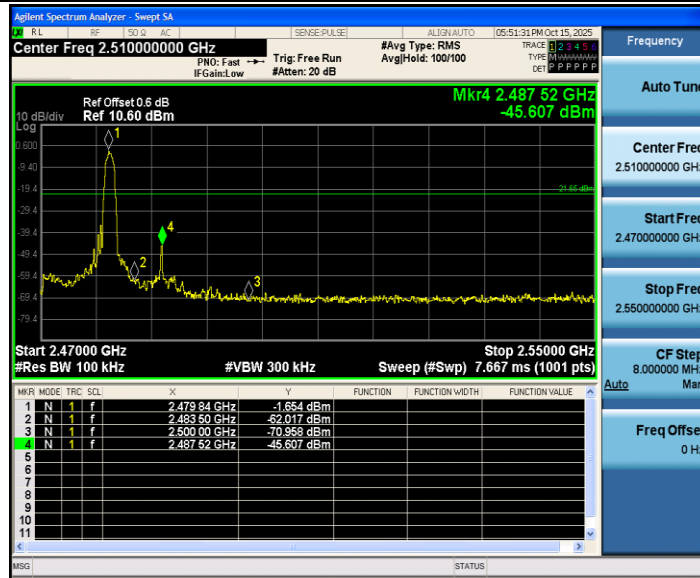
DH5_Ant1_High_Hop_2480



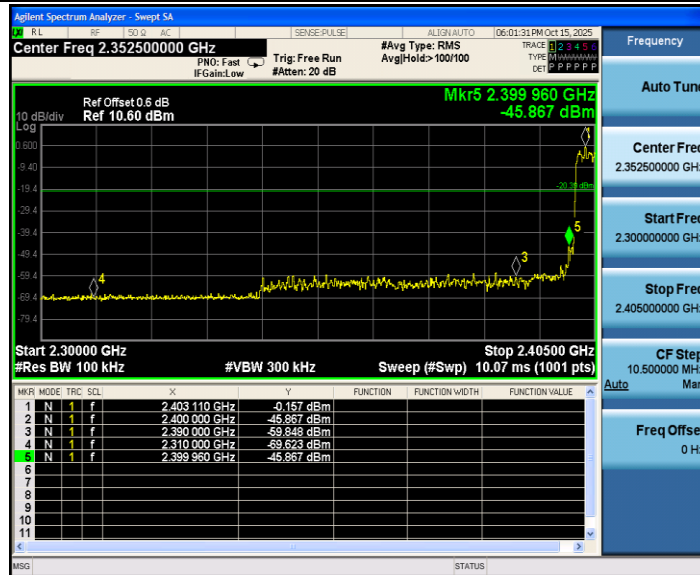
2DH5_Ant1_Low_2402



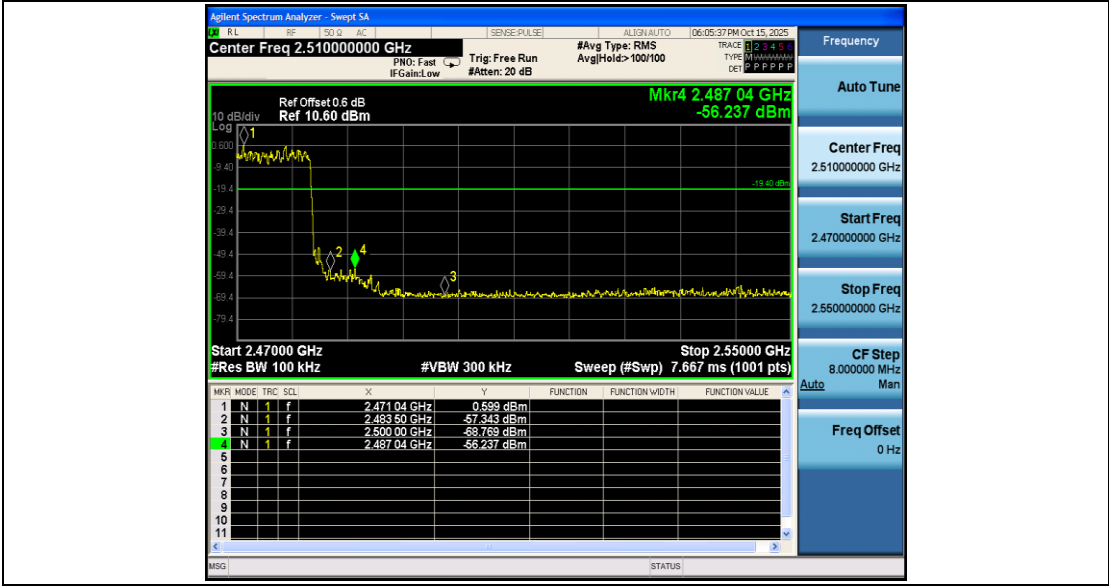
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

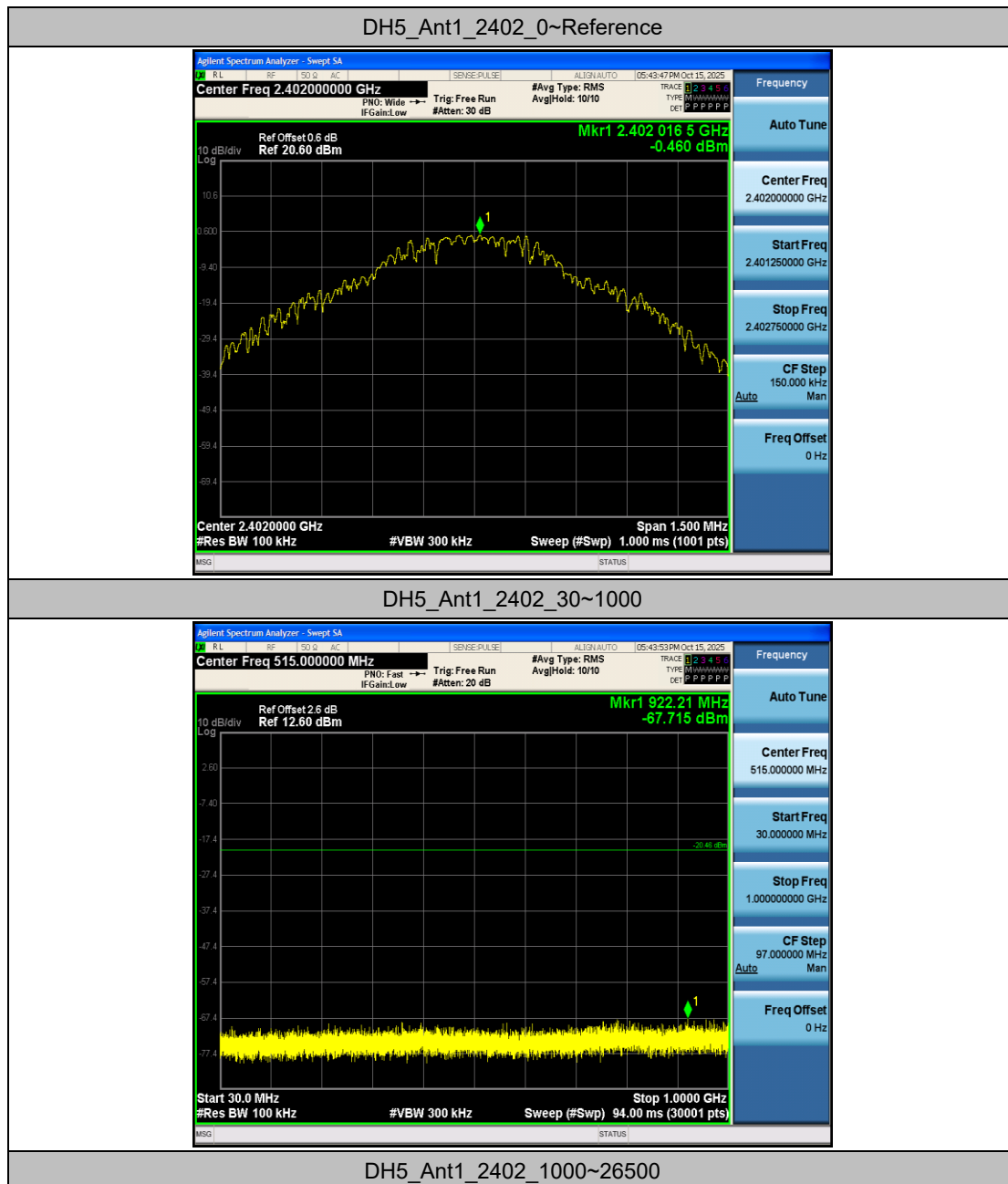


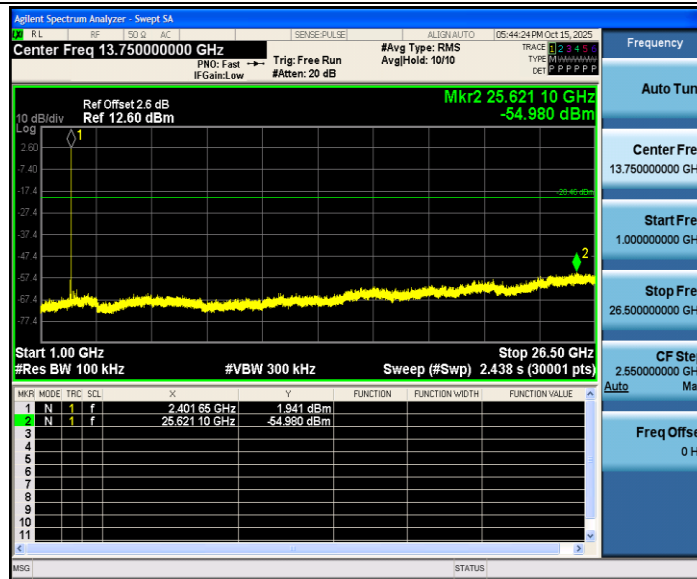
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-67.72	≤-20.46	PASS
			1000~26500	-0.46	-54.98	≤-20.46	PASS
		2441	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-67.93	≤-20.67	PASS
			1000~26500	-0.67	-54.92	≤-20.67	PASS
		2480	Reference	-4.94	-4.94	---	PASS
			30~1000	-4.94	-59.36	≤-24.94	PASS
			1000~26500	-4.94	-54.45	≤-24.94	PASS
2DH5	Ant1	2402	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-62.29	≤-23.41	PASS
			1000~26500	-3.41	-54.6	≤-23.41	PASS
		2441	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-67.49	≤-21.76	PASS
			1000~26500	-1.76	-53.97	≤-21.76	PASS
		2480	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-67.65	≤-22.68	PASS
			1000~26500	-2.68	-54.83	≤-22.68	PASS

Test Graphs

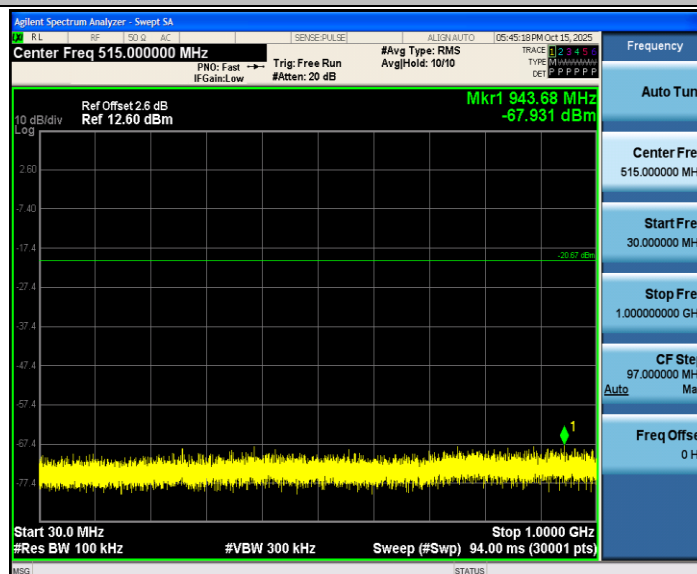




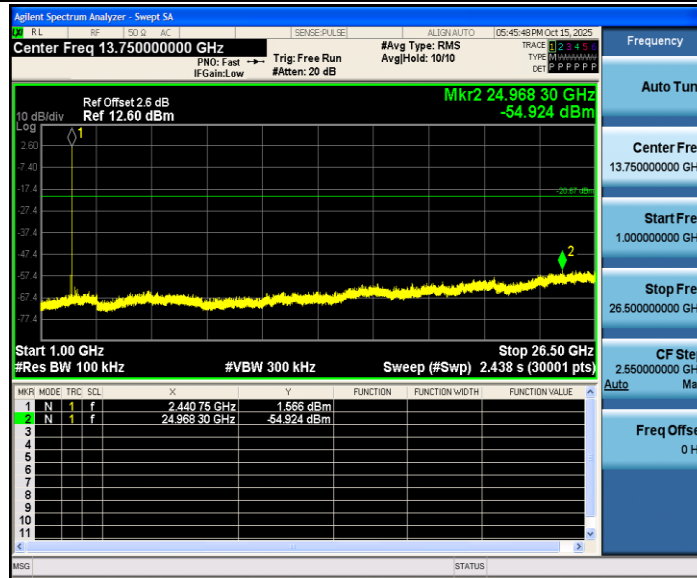
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



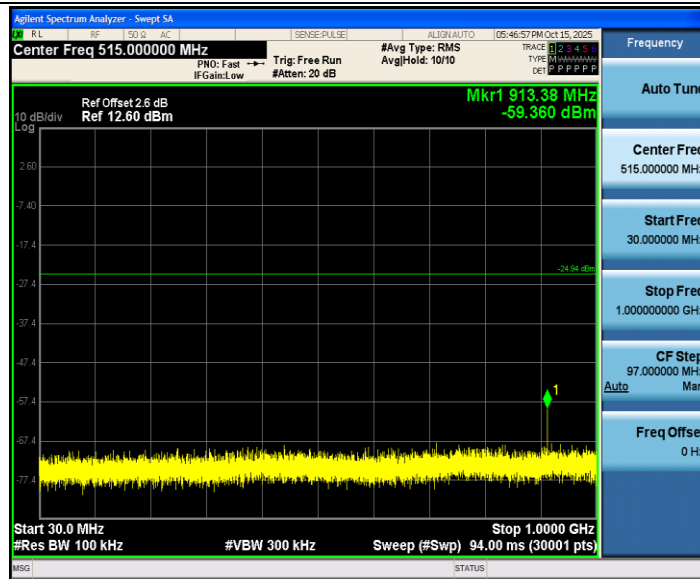
DH5_Ant1_2441_1000~26500



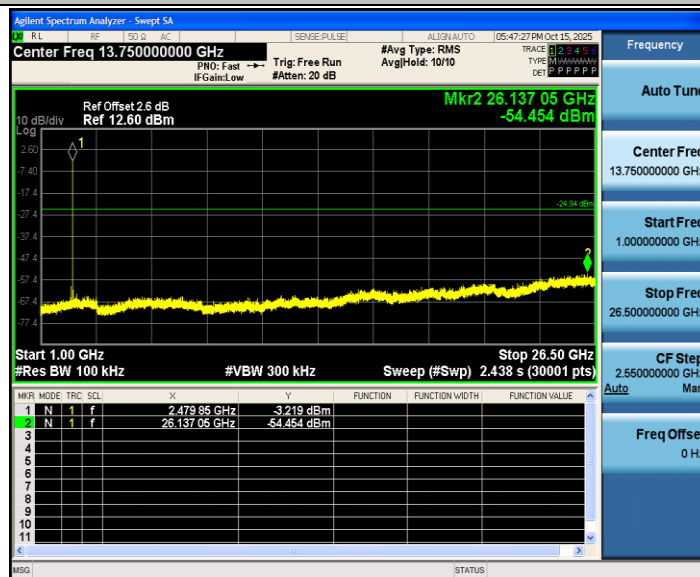
DH5_Ant1_2480_0~Reference



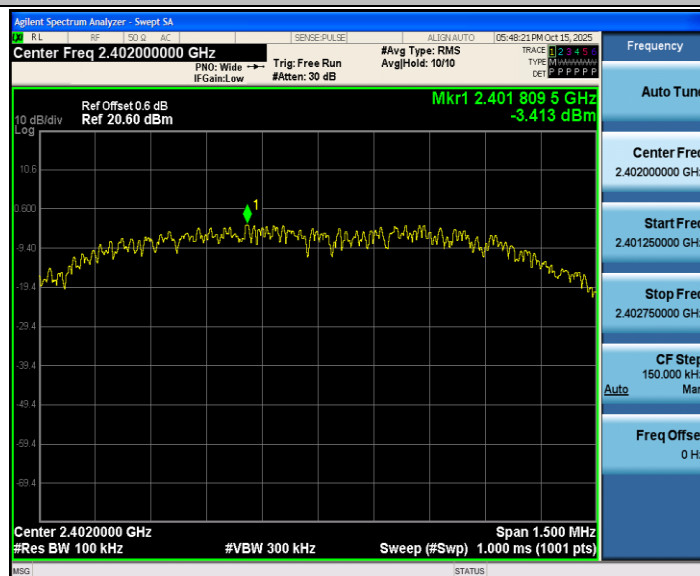
DH5_Ant1_2480_30~1000



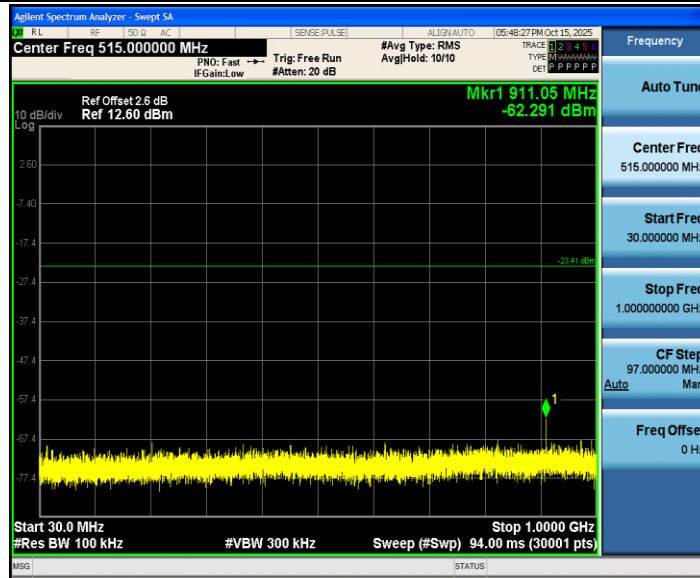
DH5_Ant1_2480_1000~26500



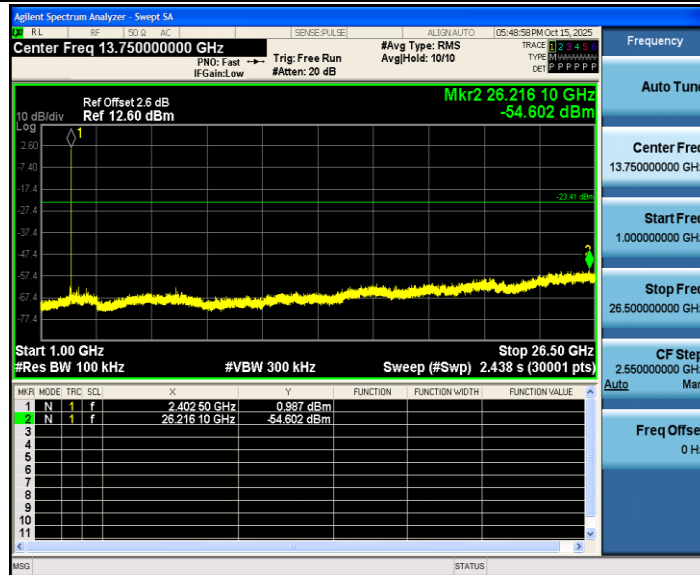
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



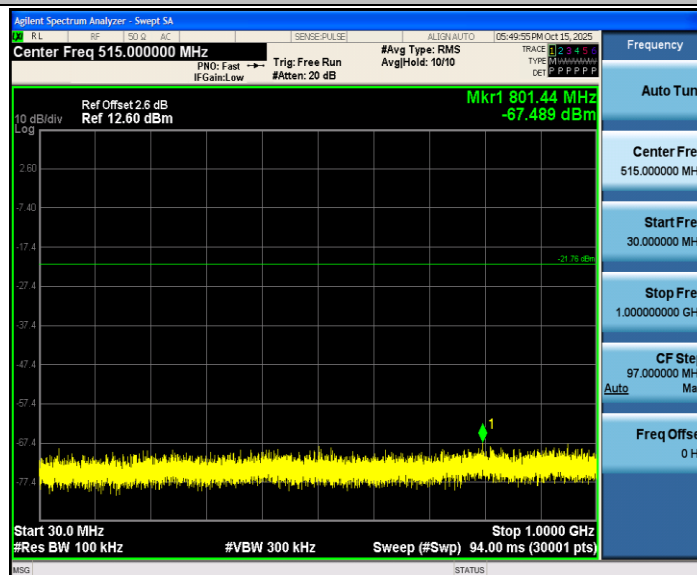
2DH5_Ant1_2402_1000~26500



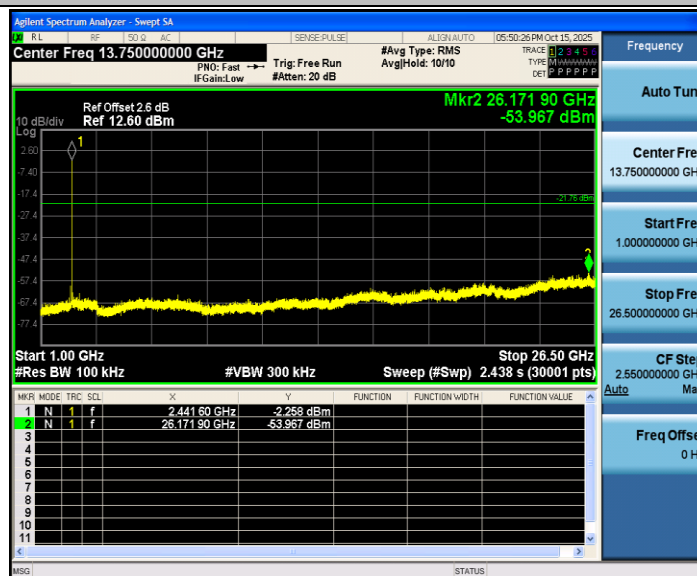
2DH5_Ant1_2441_0~Reference



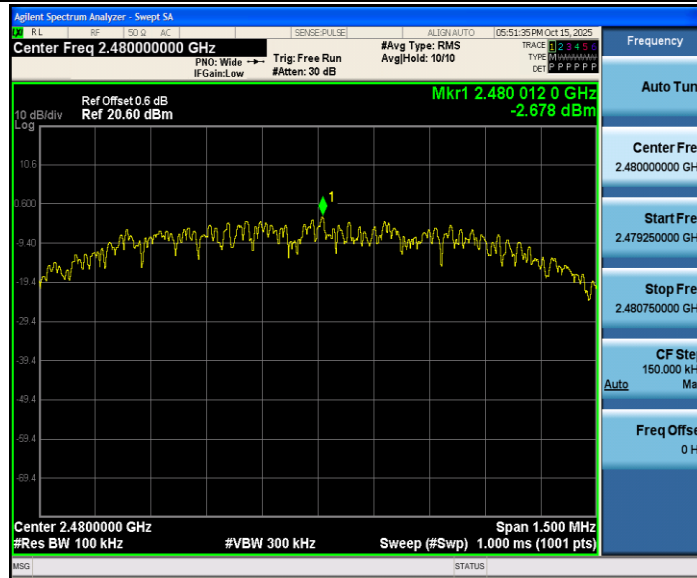
2DH5_Ant1_2441_30~1000



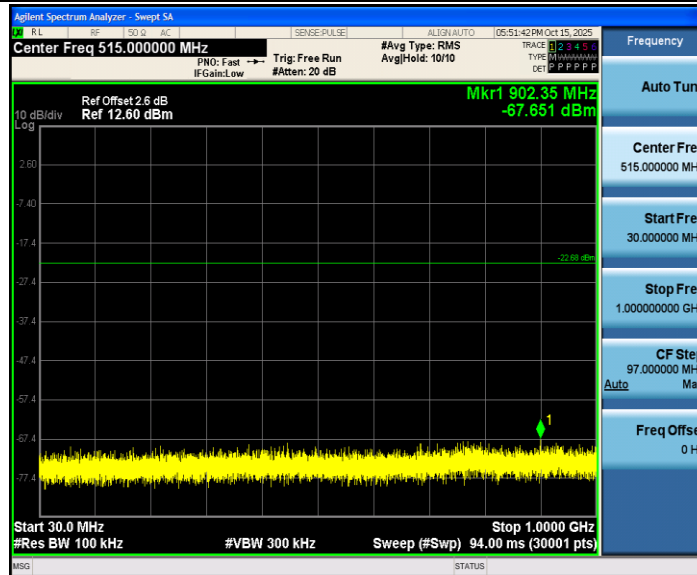
2DH5_Ant1_2441_1000~26500



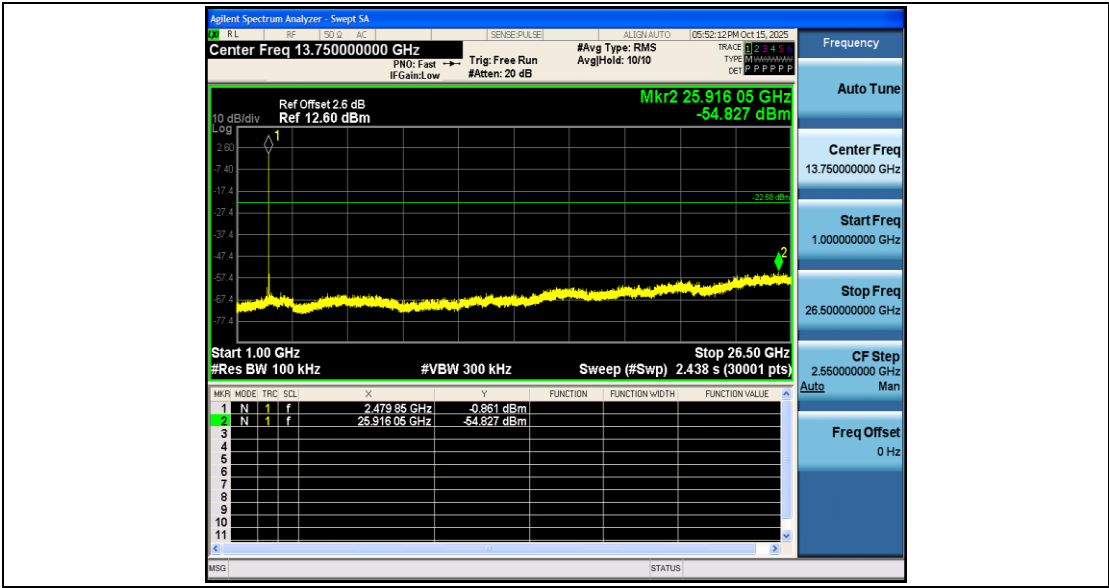
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

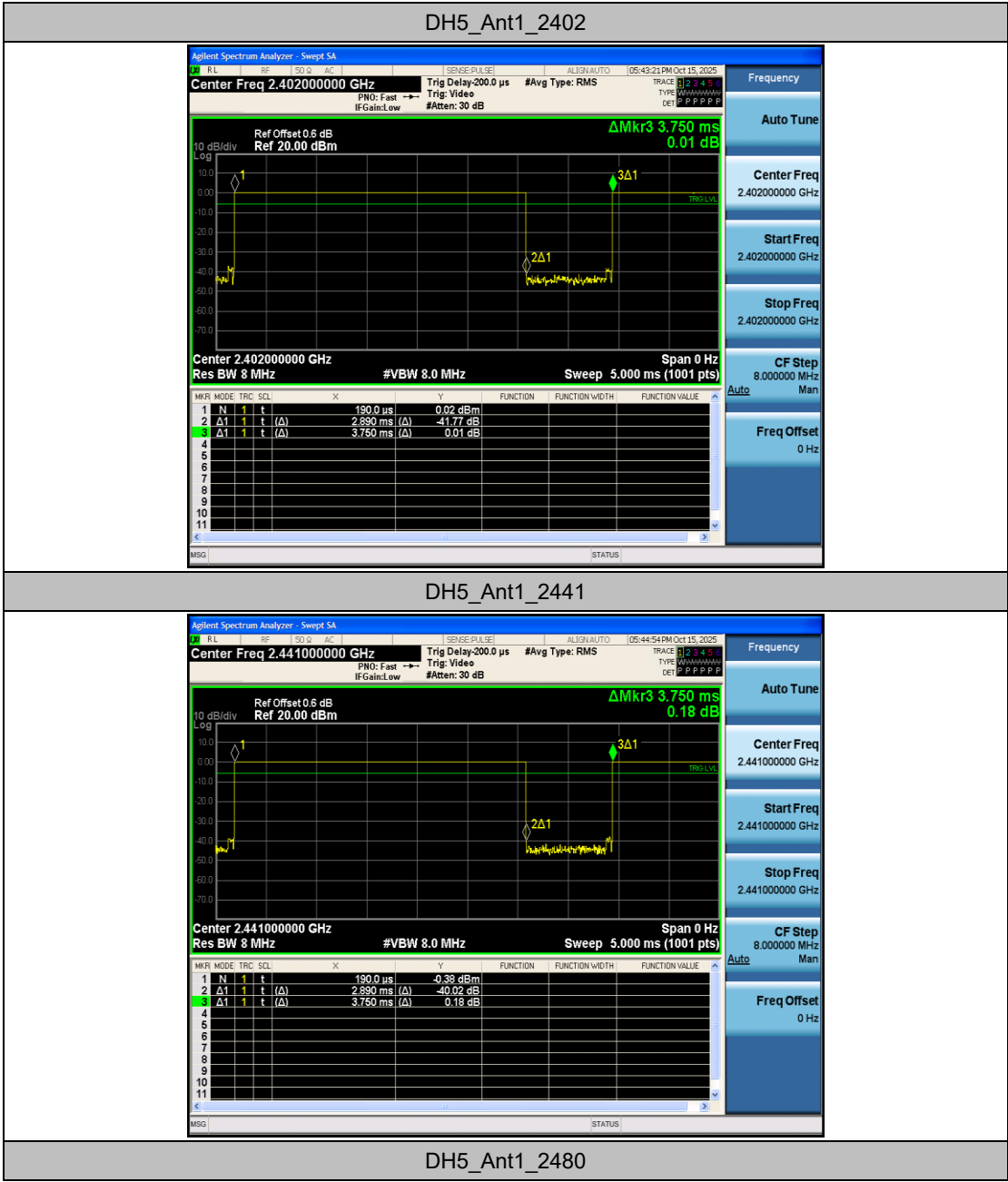


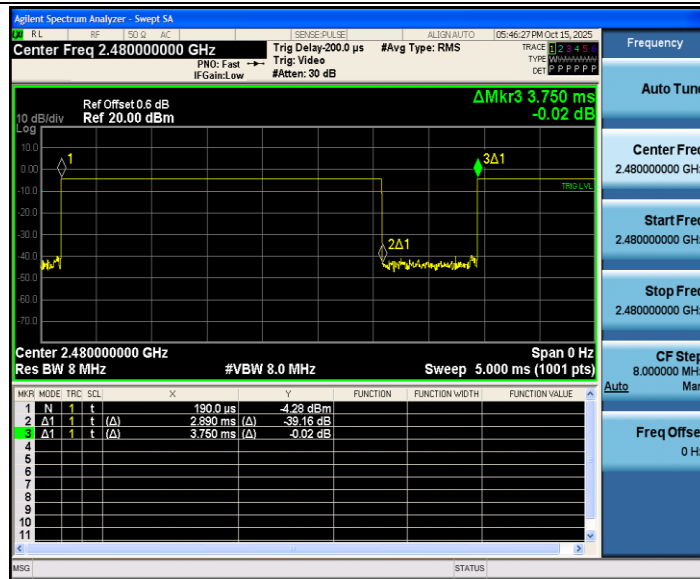
Appendix I: Duty Cycle

Test Result

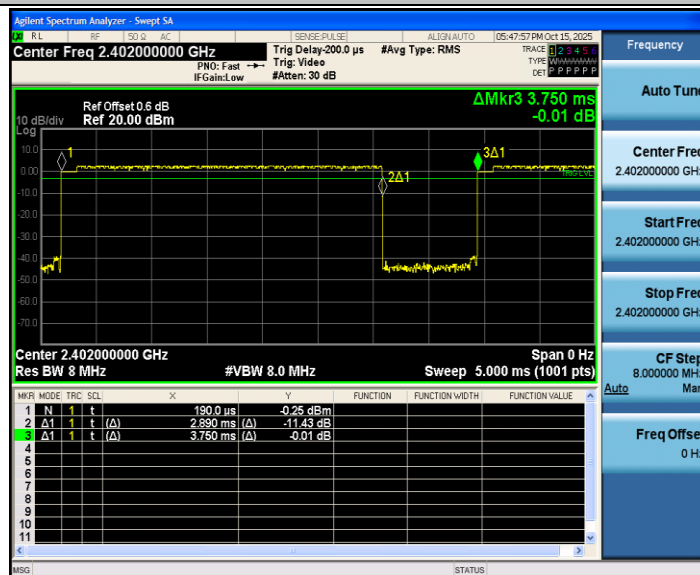
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---

Test Graphs

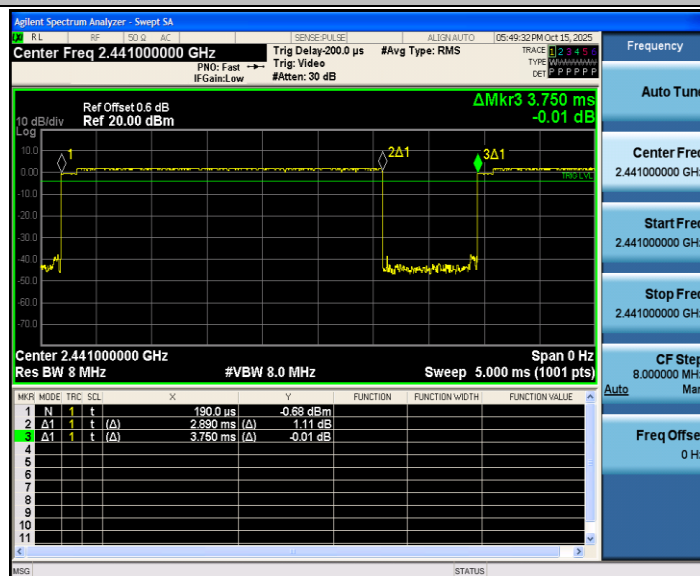




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

