

FCC Appendix RF Test Data for BT

FCC ID : **XHN-SPEAKER**

Company : **Amwood (Hong Kong) Ltd.**

EUT : **Speaker**

Model Number : **SP-88**

Report No. : **CTA25121000101**

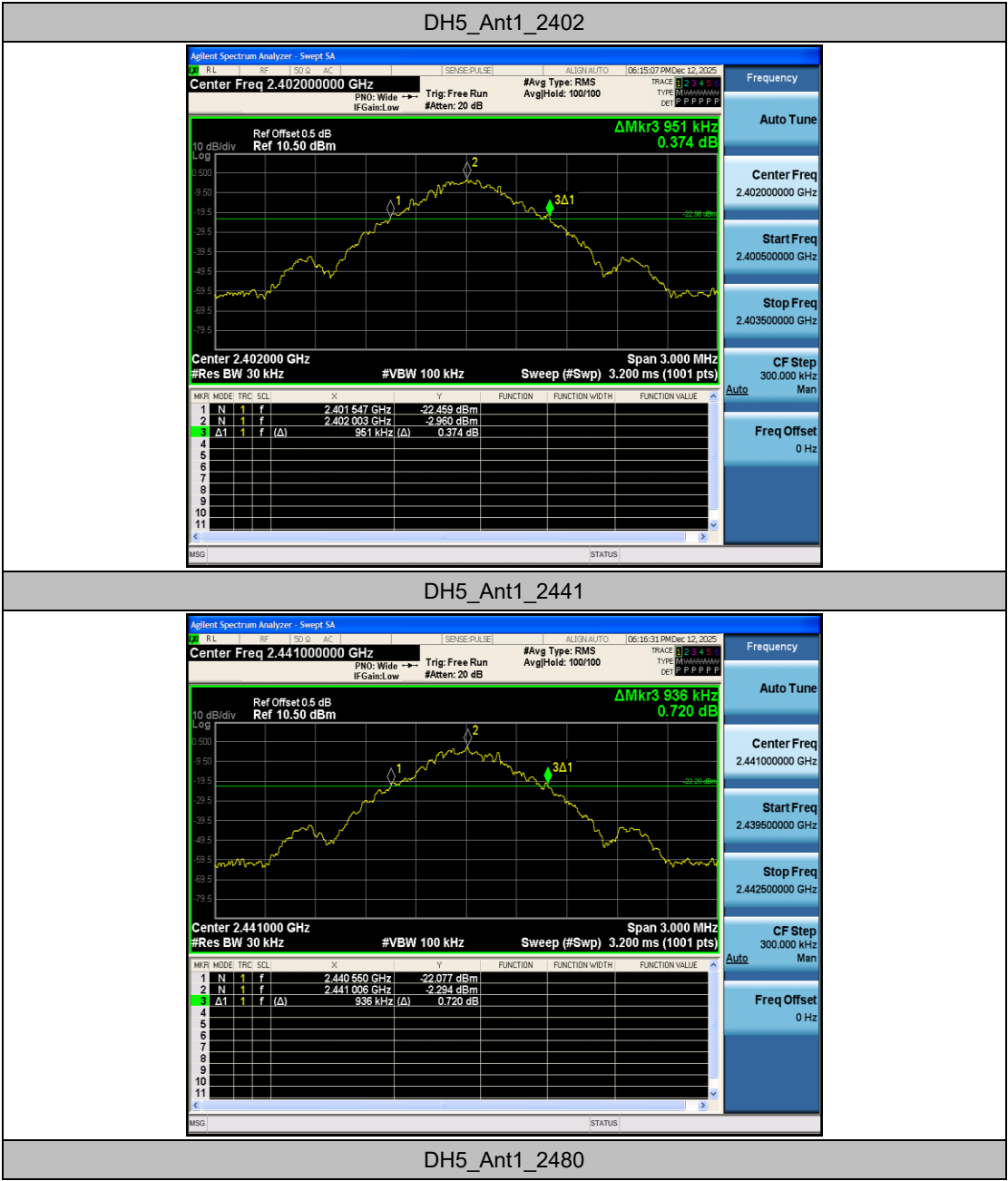
Reviewed By : **Eric Wang**

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.547	2402.498	---	---
		2441	0.936	2440.550	2441.486	---	---
		2480	0.954	2479.550	2480.504	---	---
2DH5	Ant1	2402	1.341	2401.337	2402.678	---	---
		2441	1.305	2440.361	2441.666	---	---
		2480	1.284	2479.379	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

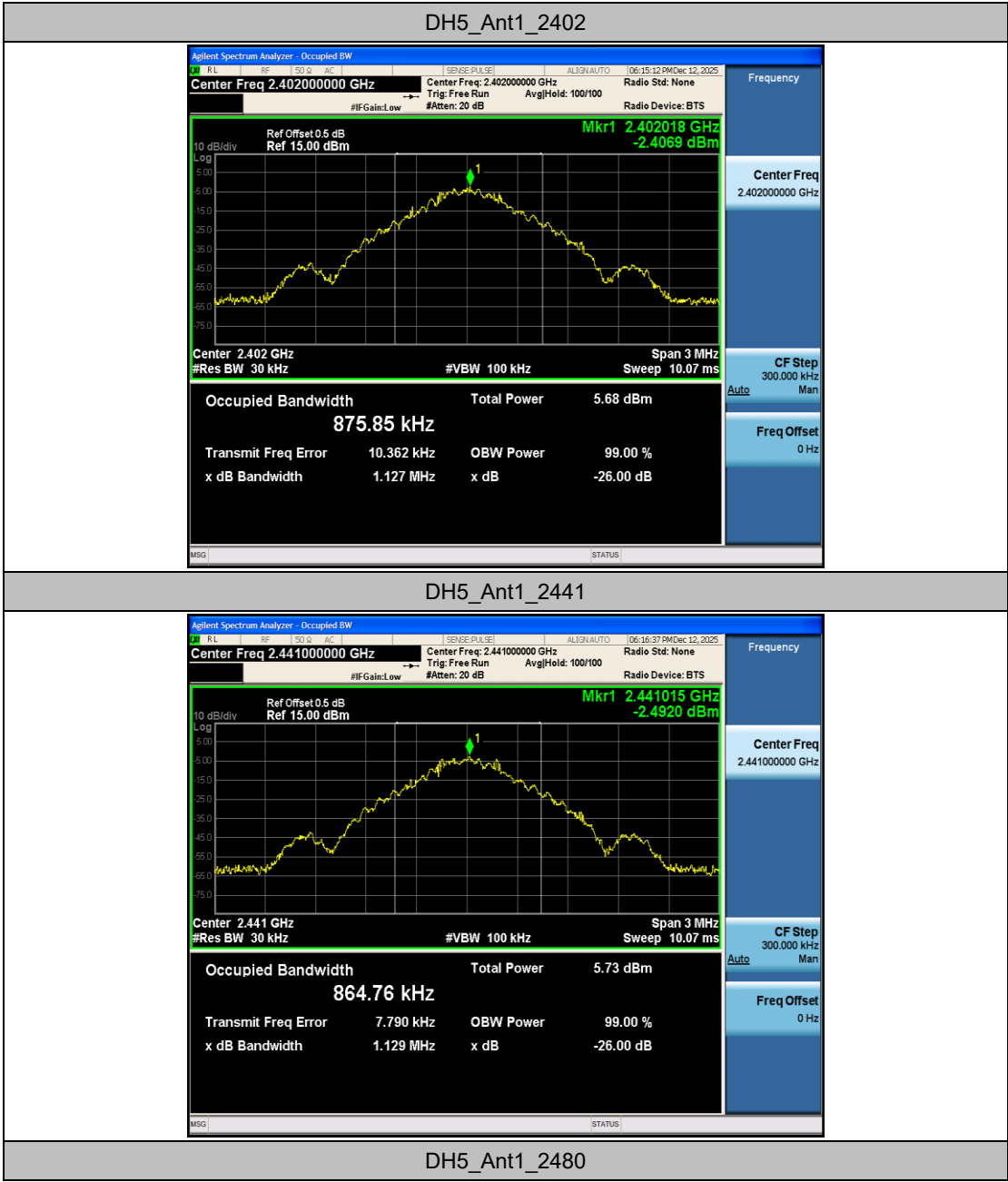


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87585	2401.5724	2402.4483	---	---
		2441	0.86476	2440.5754	2441.4402	---	---
		2480	0.86540	2479.5721	2480.4375	---	---
2DH5	Ant1	2402	1.1833	2401.4196	2402.6029	---	---
		2441	1.1859	2440.4177	2441.6036	---	---
		2480	1.1922	2479.4141	2480.6063	---	---

Test Graphs

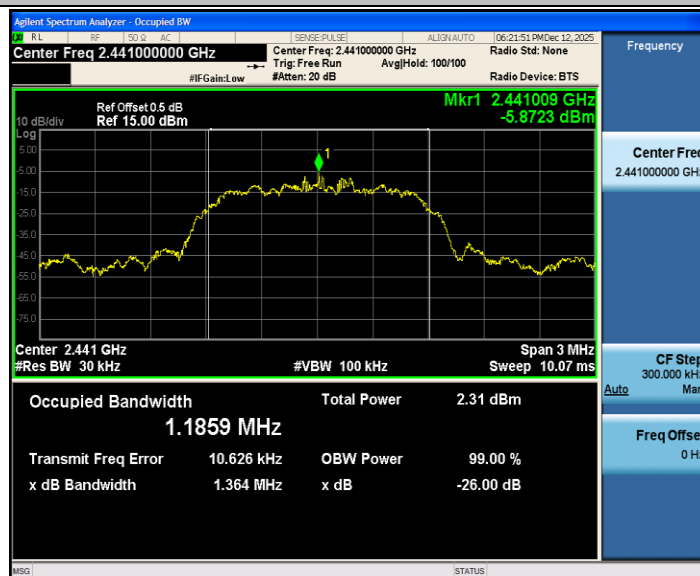




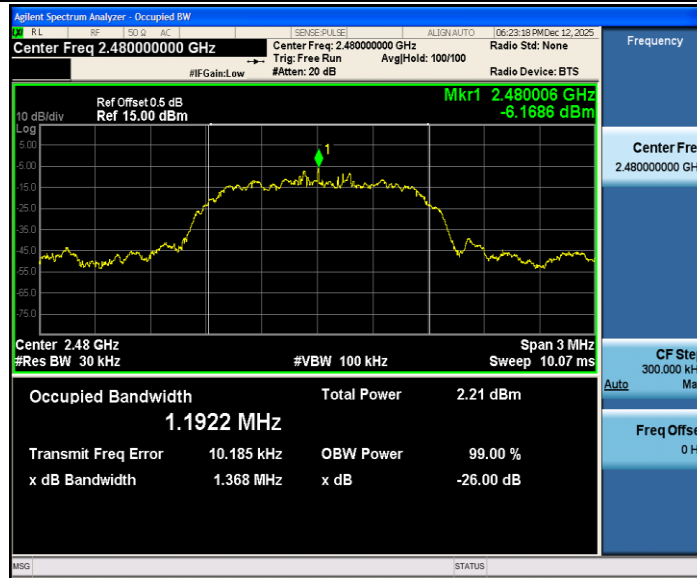
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

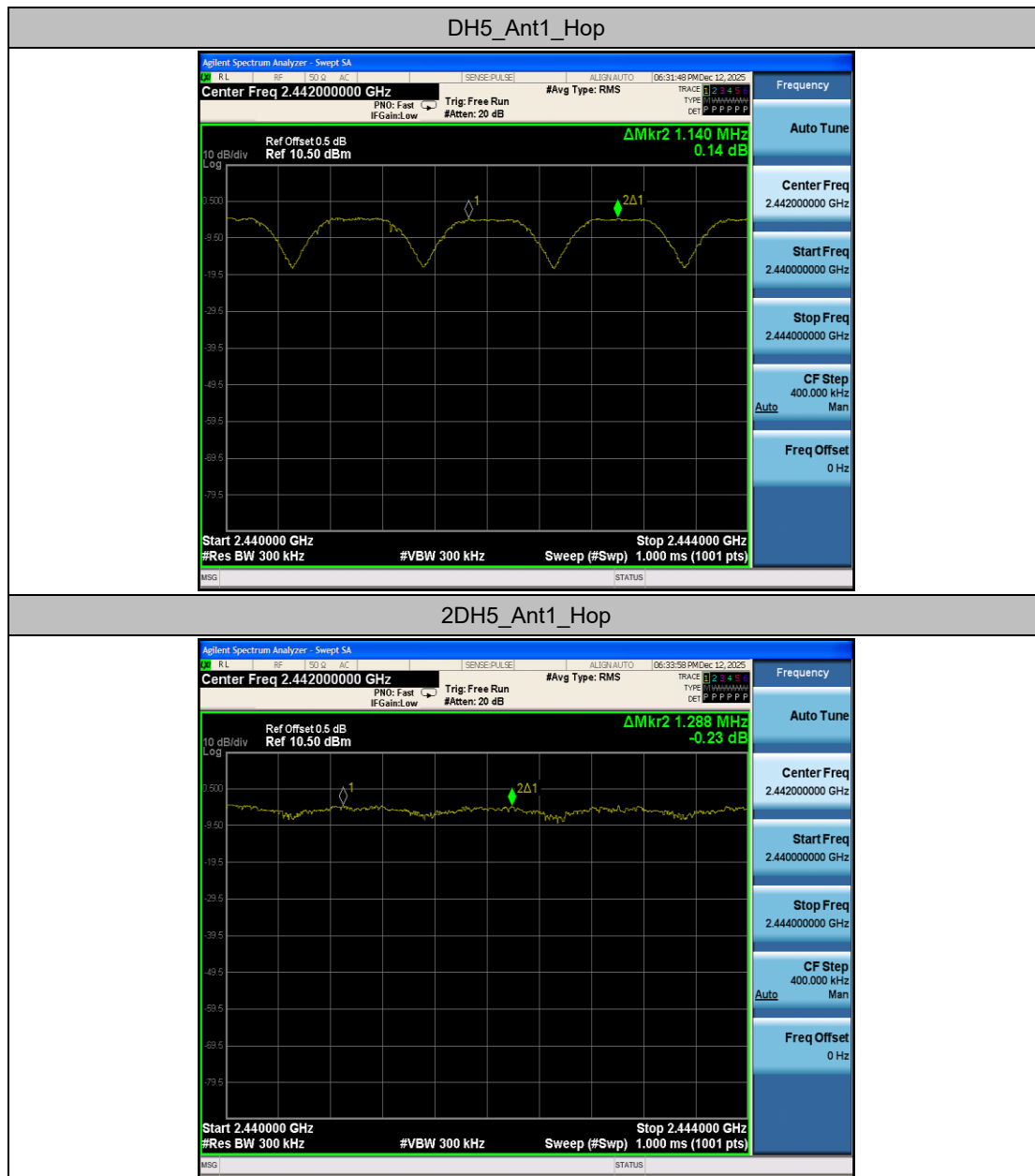
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.18	≤20.97	PASS
		2441	-0.33	≤20.97	PASS
		2480	-0.32	≤20.97	PASS
2DH5	Ant1	2402	-1.00	≤20.97	PASS
		2441	-1.09	≤20.97	PASS
		2480	-1.10	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.14	≥ 0.954	PASS
2DH5	Ant1	Hop	1.288	≥ 0.894	PASS

Test Graphs



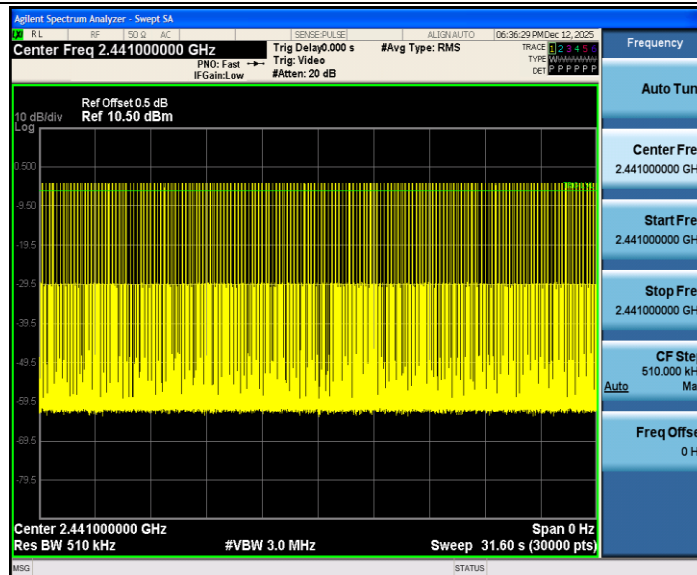
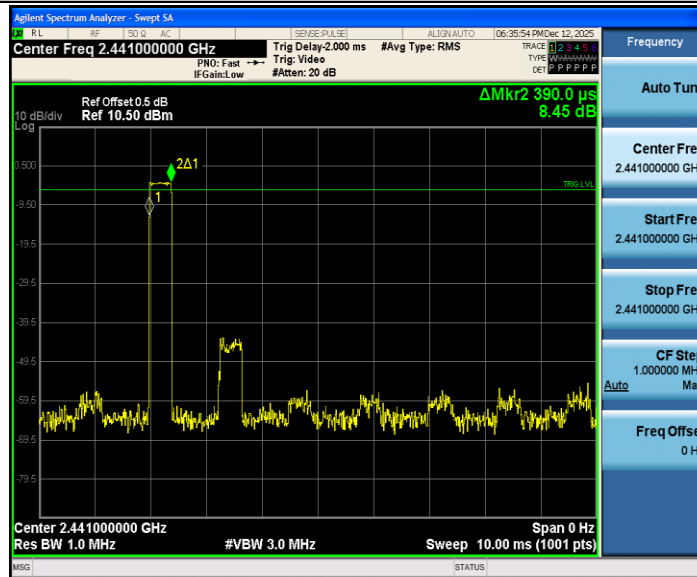
Appendix E: Time of occupancy

Test Result

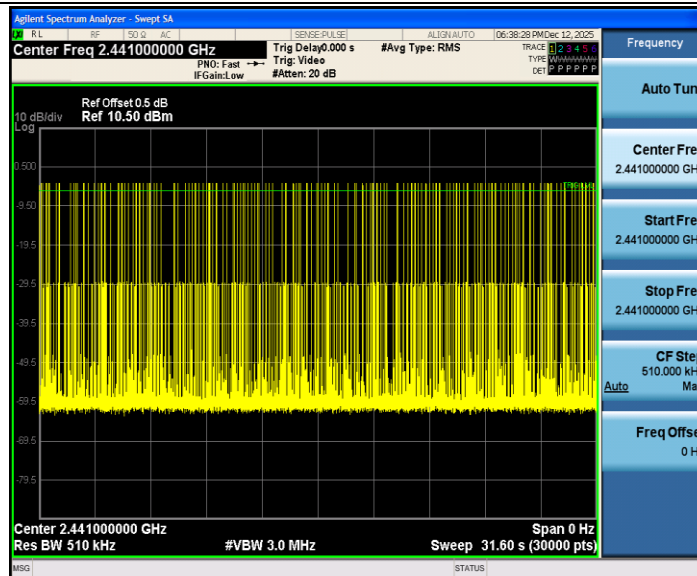
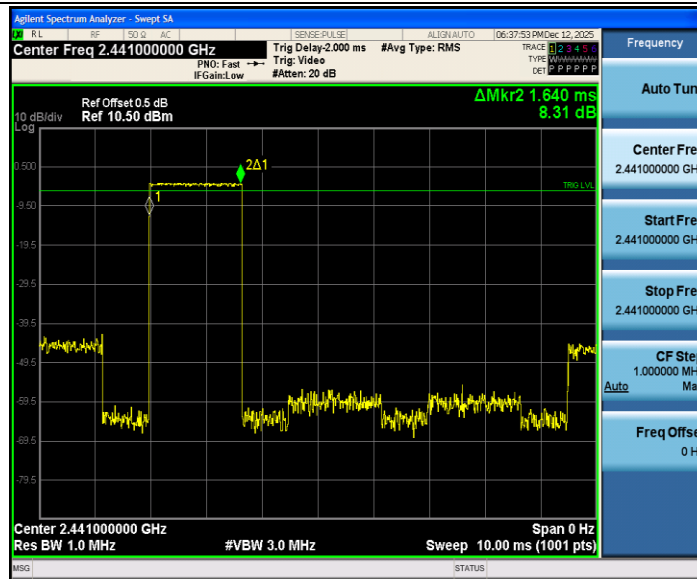
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.640	172	0.282	≤0.4	PASS
DH5	Ant1	Hop	2.900	106	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	151	0.249	≤0.4	PASS
2DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

Test Graphs

DH1_Ant1_Hop

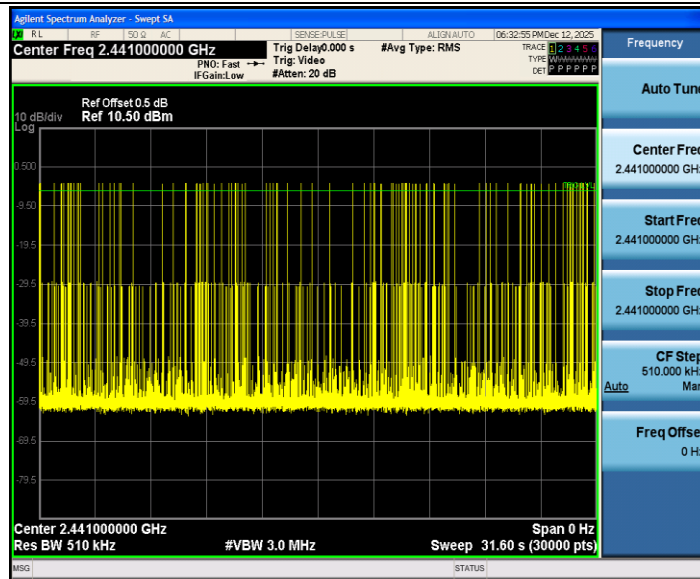


DH3_Ant1_Hop

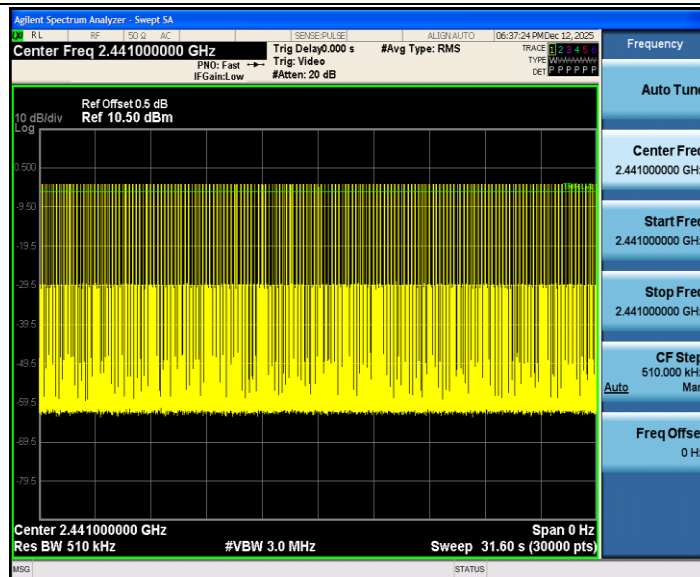
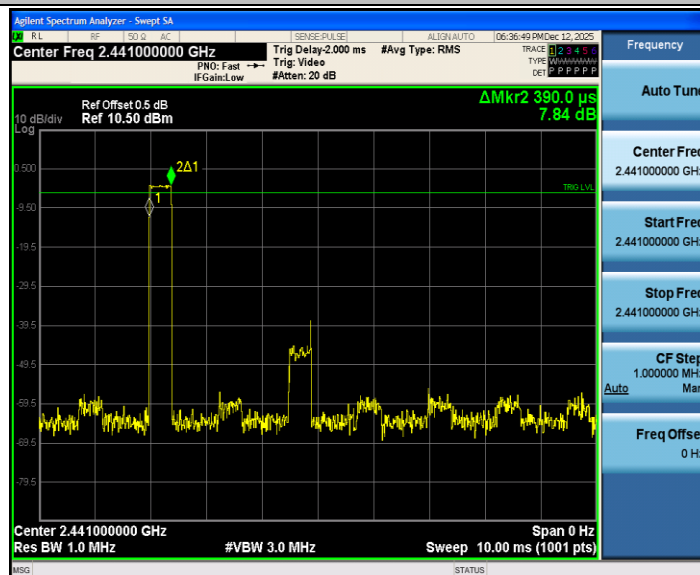


DH5_Ant1_Hop

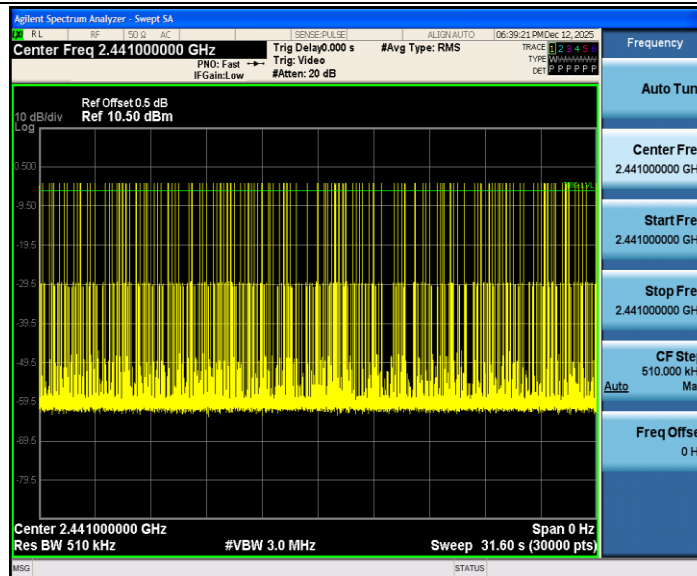
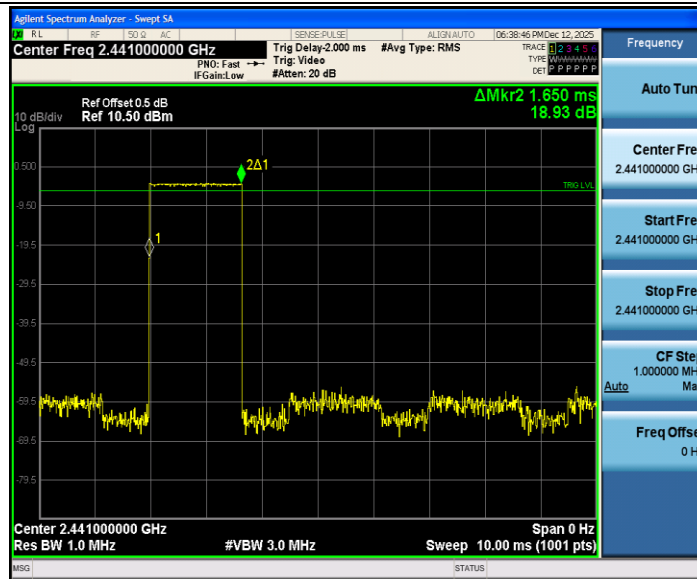




2DH1_Ant1_Hop

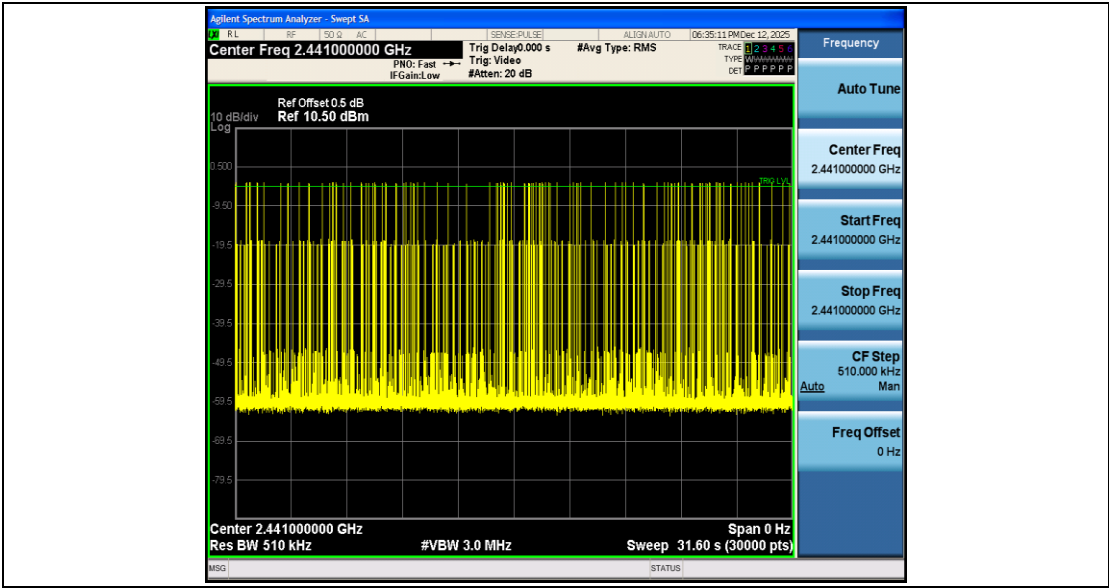


2DH3_Ant1_Hop



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

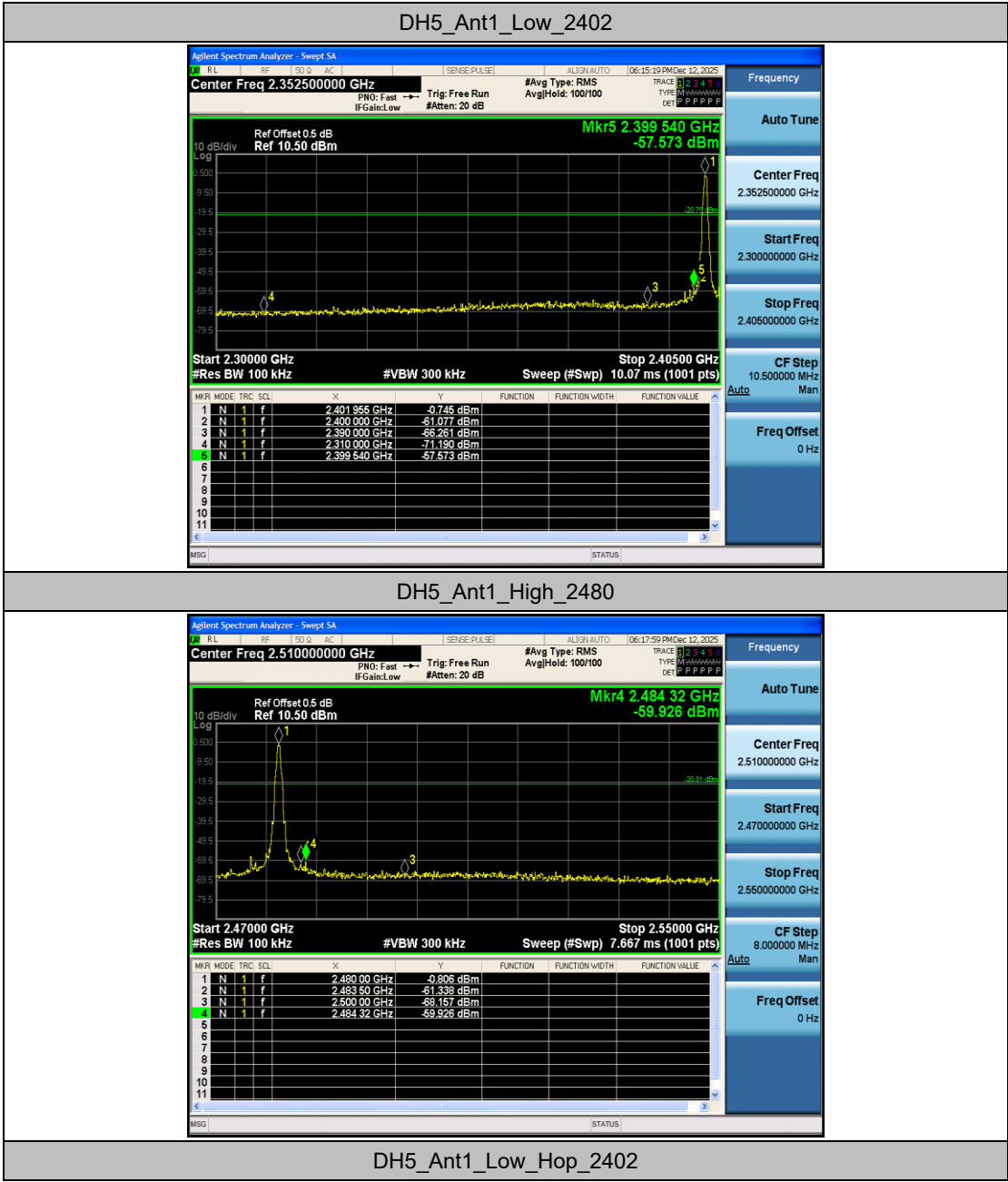


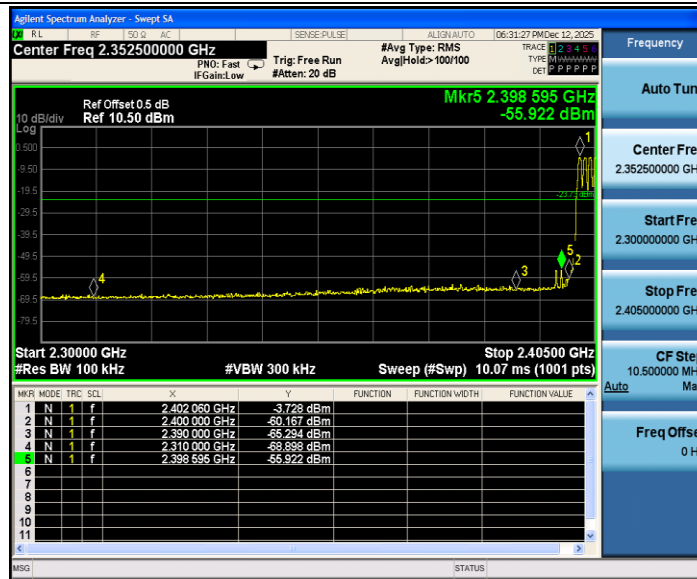
Appendix G: Band edge measurements

Test Result

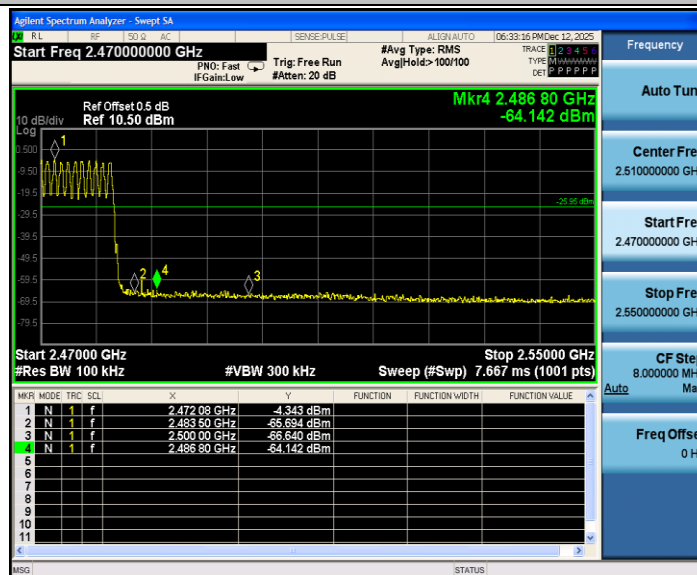
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.75	-57.57	≤-20.75	PASS
		High	2480	-0.81	-59.93	≤-20.81	PASS
		Low	Hop_2402	-3.73	-55.92	≤-23.73	PASS
		High	Hop_2480	-5.95	-64.14	≤-25.95	PASS
2DH5	Ant1	Low	2402	-4.86	-57.74	≤-24.86	PASS
		High	2480	-4.54	-58.39	≤-24.54	PASS
		Low	Hop_2402	-7.00	-61.88	≤-27	PASS
		High	Hop_2480	-4.86	-64.18	≤-24.86	PASS

Test Graphs

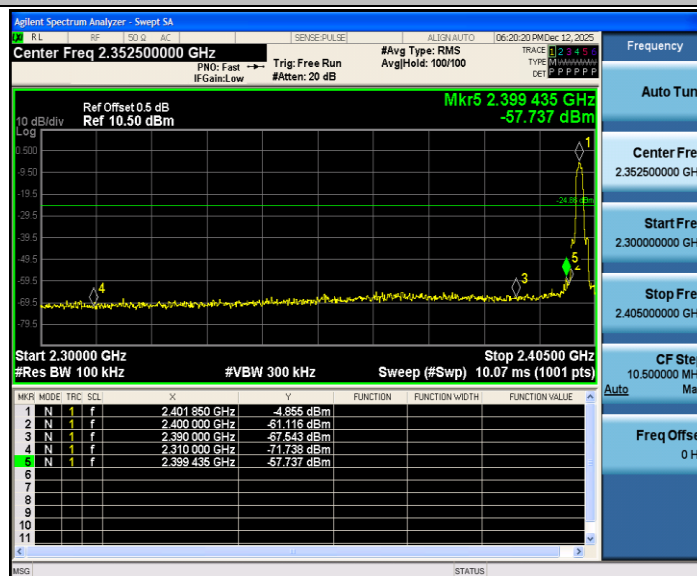




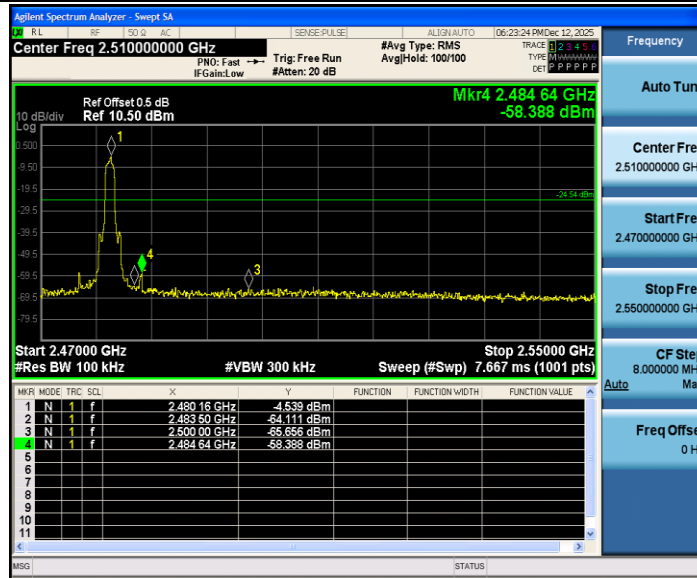
DH5_Ant1_High_Hop_2480



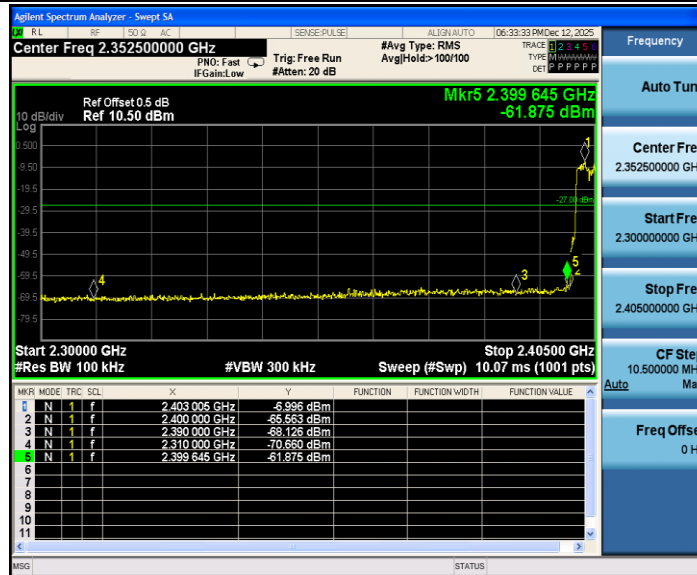
2DH5_Ant1_Low_2402



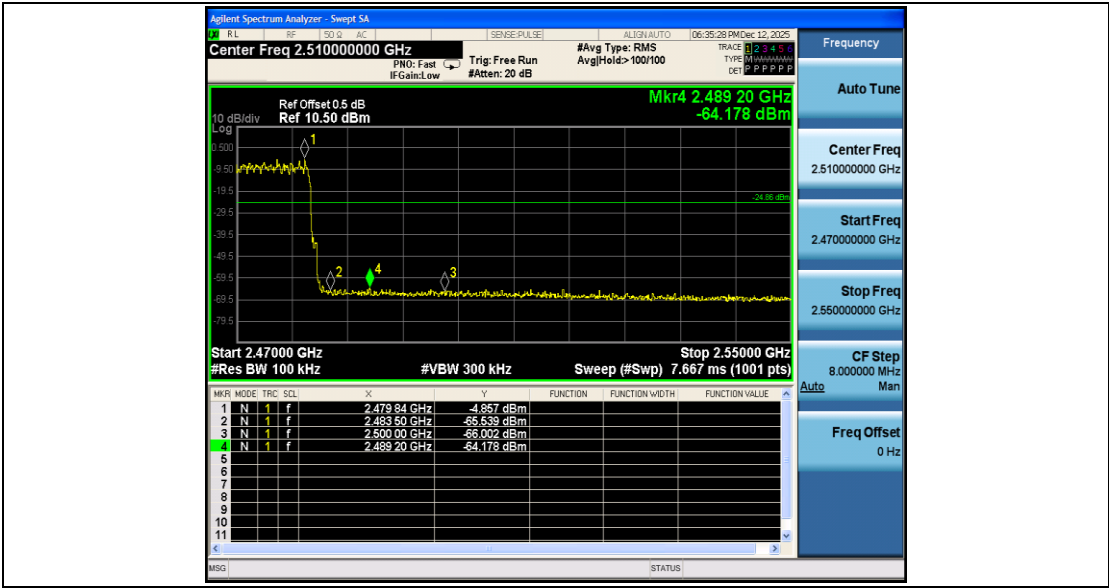
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

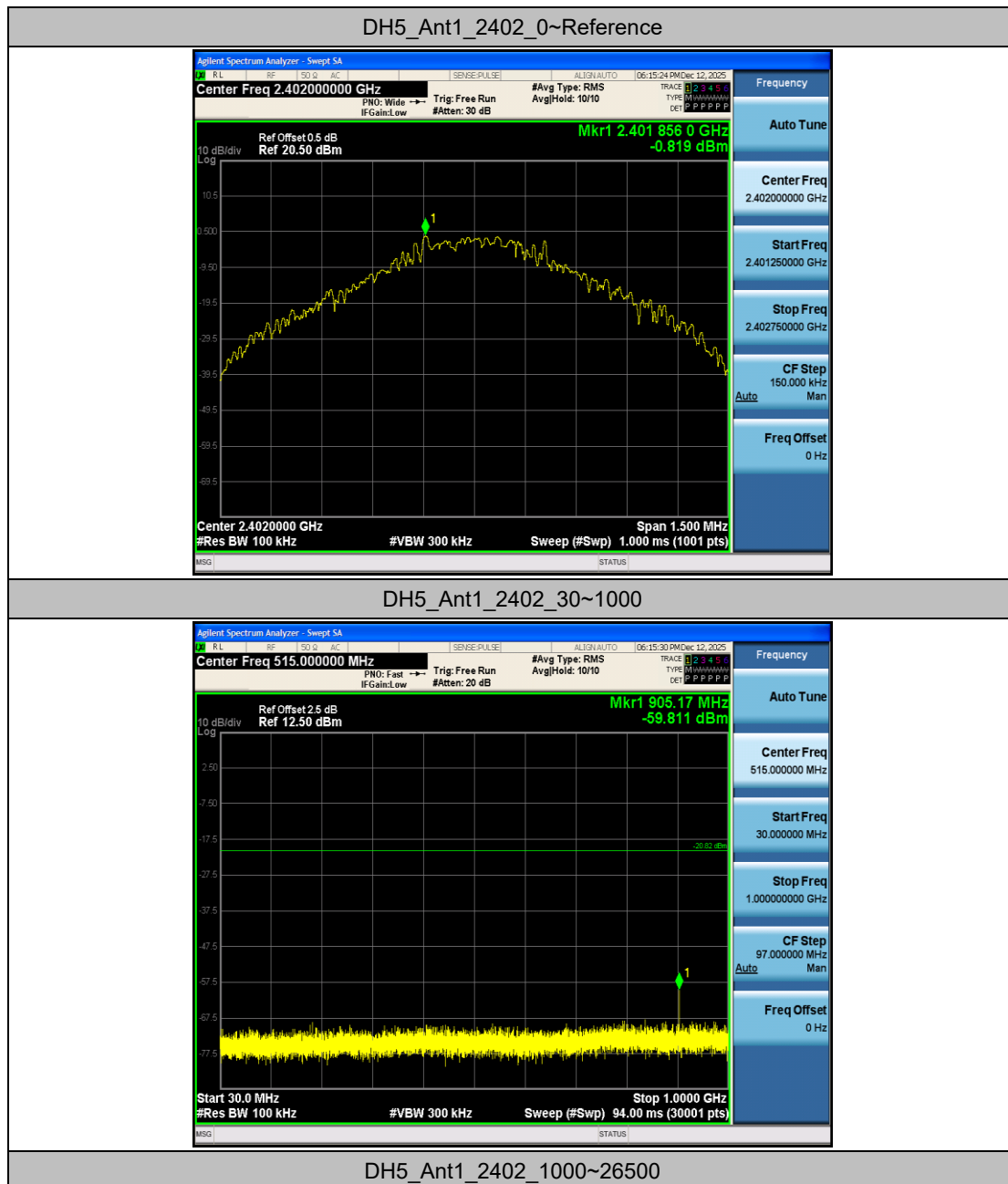


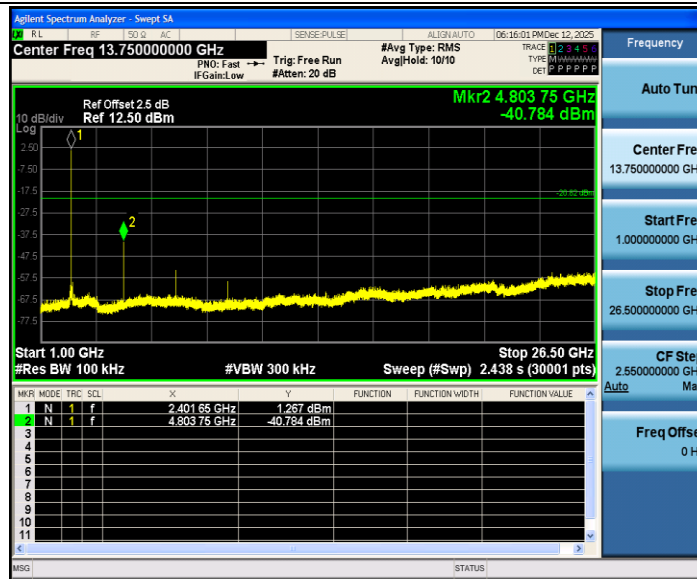
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-59.81	≤-20.82	PASS
			1000~26500	-0.82	-40.78	≤-20.82	PASS
		2441	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-67.63	≤-20.55	PASS
			1000~26500	-0.55	-43.35	≤-20.55	PASS
		2480	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-67.95	≤-21.5	PASS
			1000~26500	-1.50	-44.09	≤-21.5	PASS
2DH5	Ant1	2402	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-68.04	≤-23.94	PASS
			1000~26500	-3.94	-49.67	≤-23.94	PASS
		2441	Reference	-6.03	-6.03	---	PASS
			30~1000	-6.03	-66.14	≤-26.03	PASS
			1000~26500	-6.03	-46.93	≤-26.03	PASS
		2480	Reference	-5.42	-5.42	---	PASS
			30~1000	-5.42	-66.86	≤-25.42	PASS
			1000~26500	-5.42	-45.55	≤-25.42	PASS

Test Graphs

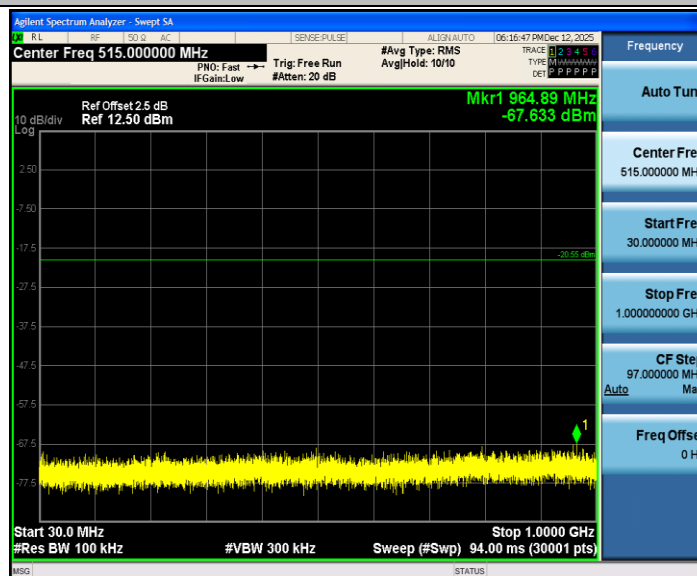




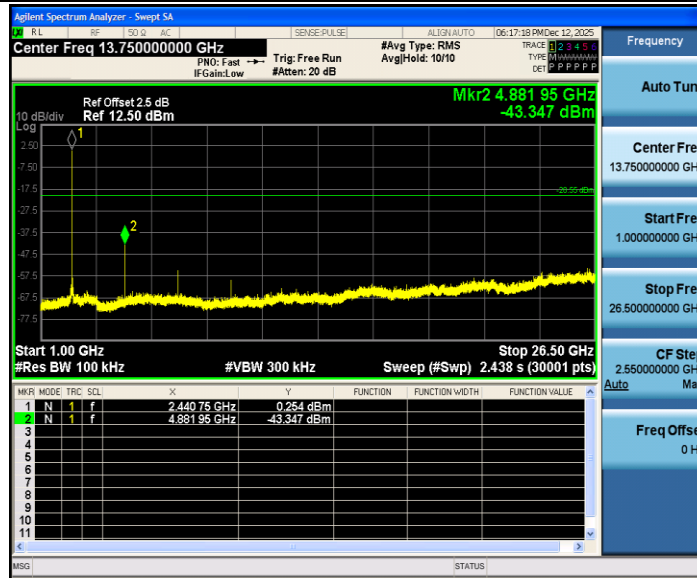
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



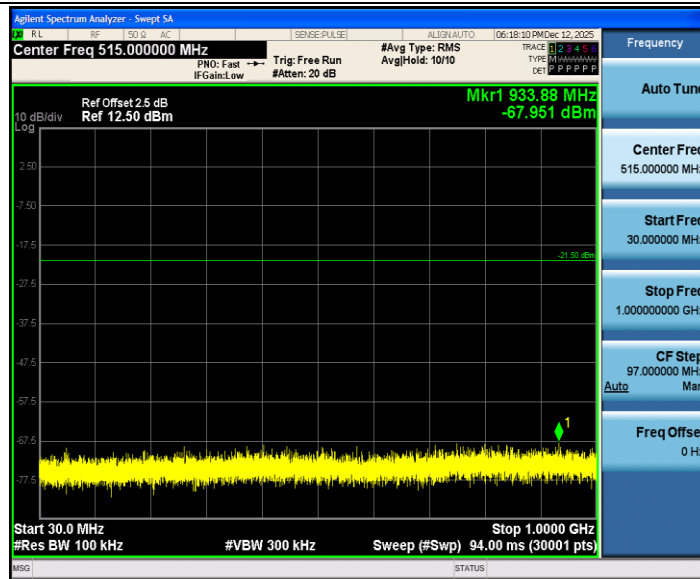
DH5_Ant1_2441_1000~26500



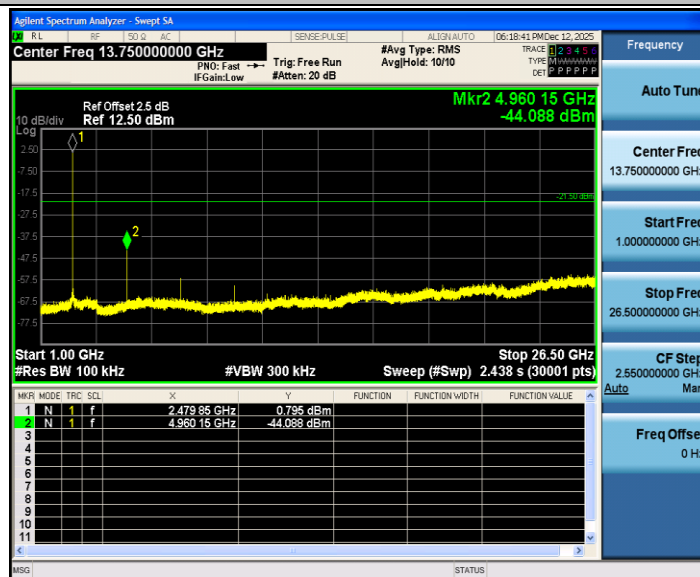
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



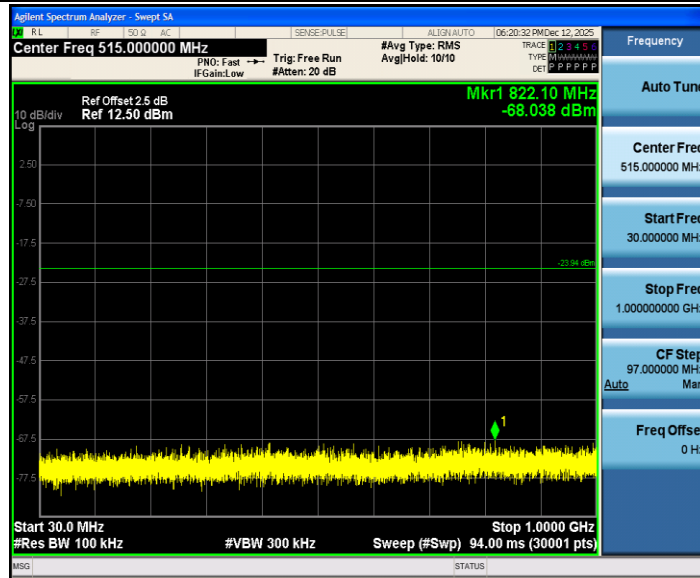
DH5_Ant1_2480_1000~26500



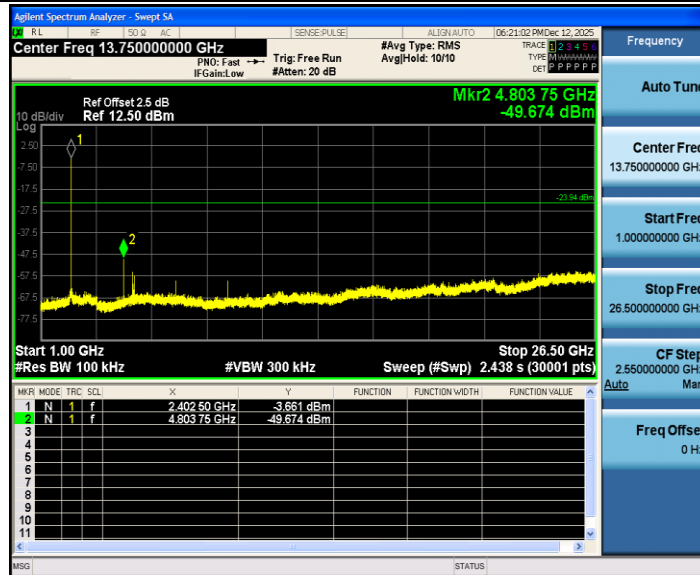
2DH5_Ant1_2402_0~Reference



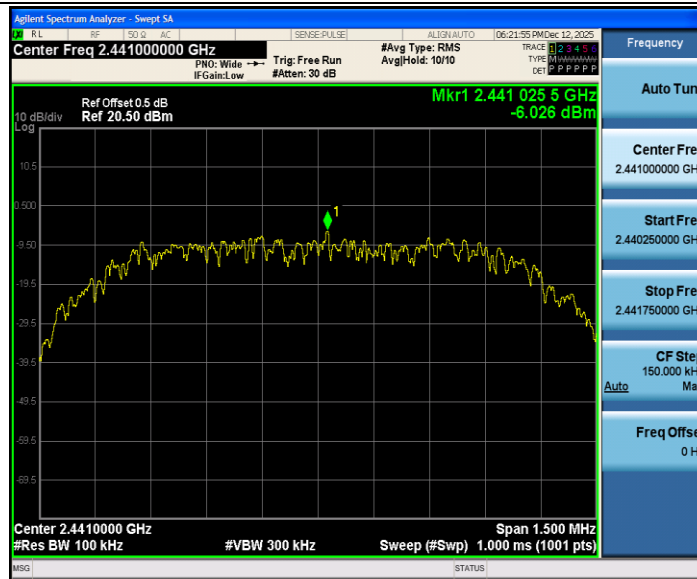
2DH5_Ant1_2402_30~1000



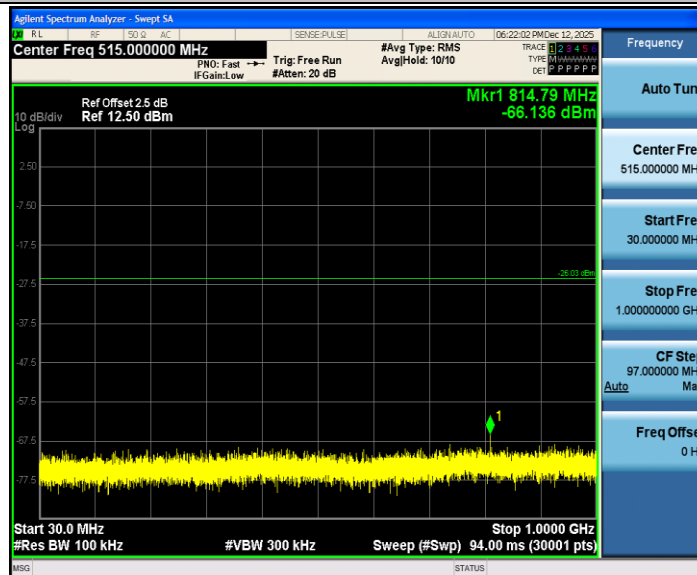
2DH5_Ant1_2402_1000~26500



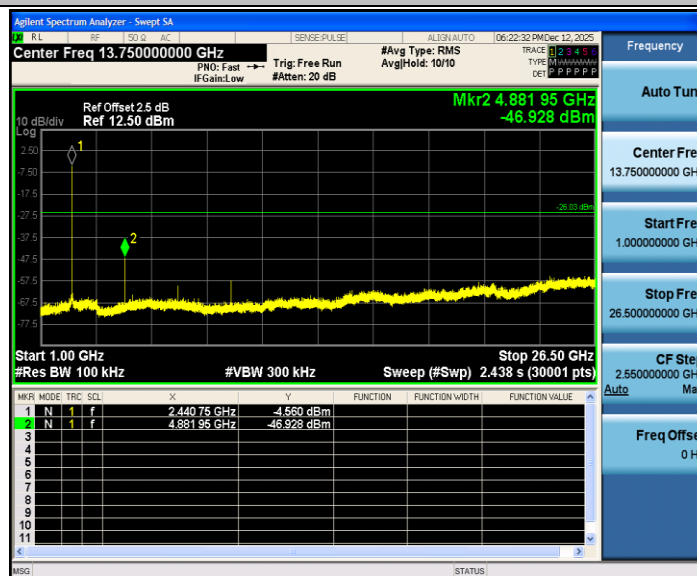
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



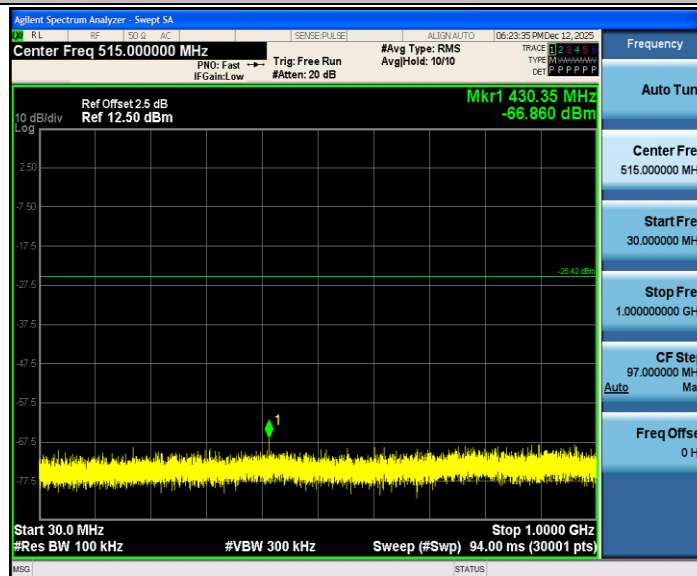
2DH5_Ant1_2441_1000~26500



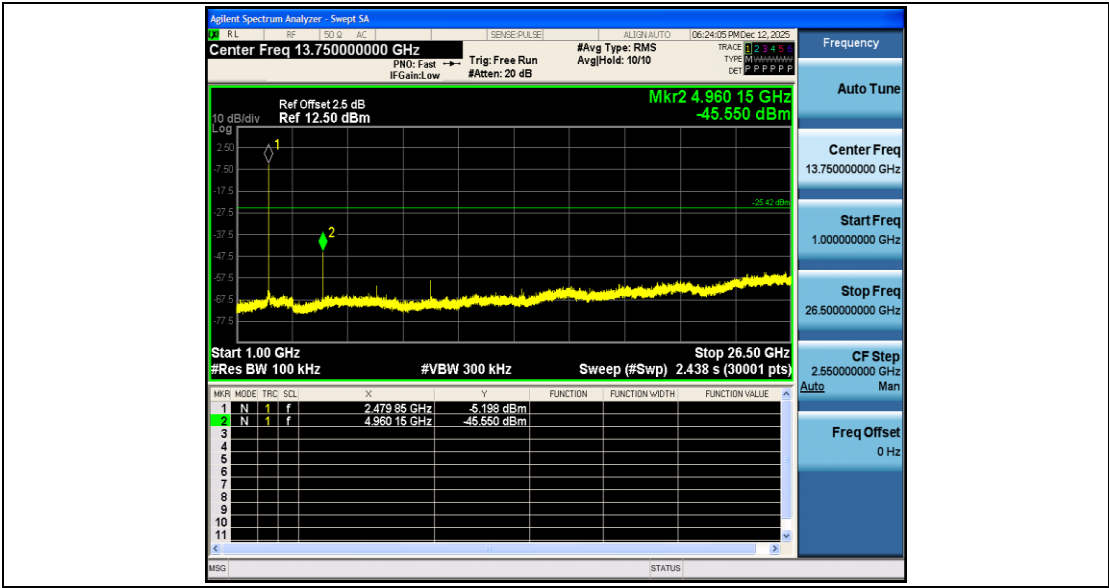
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

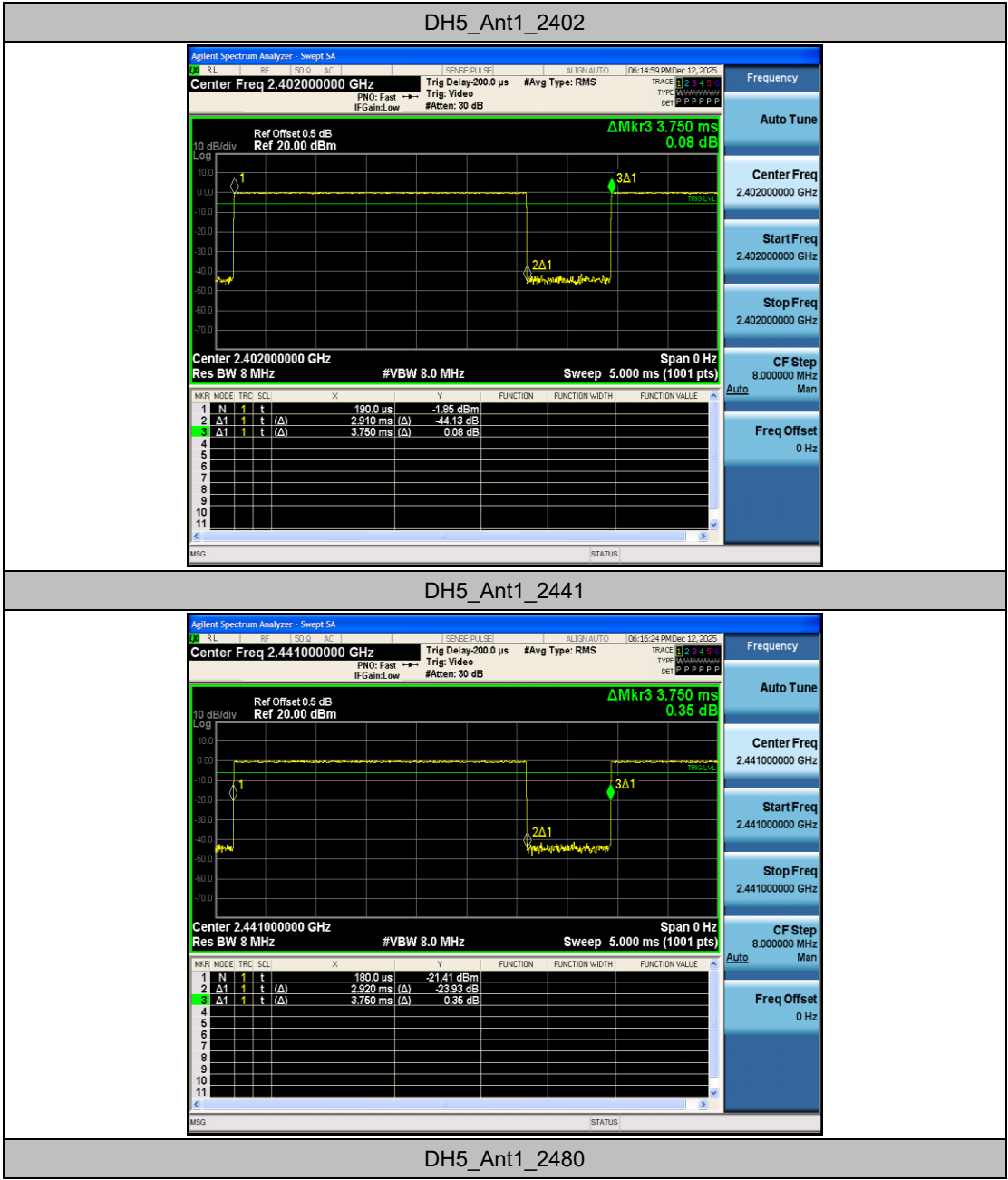


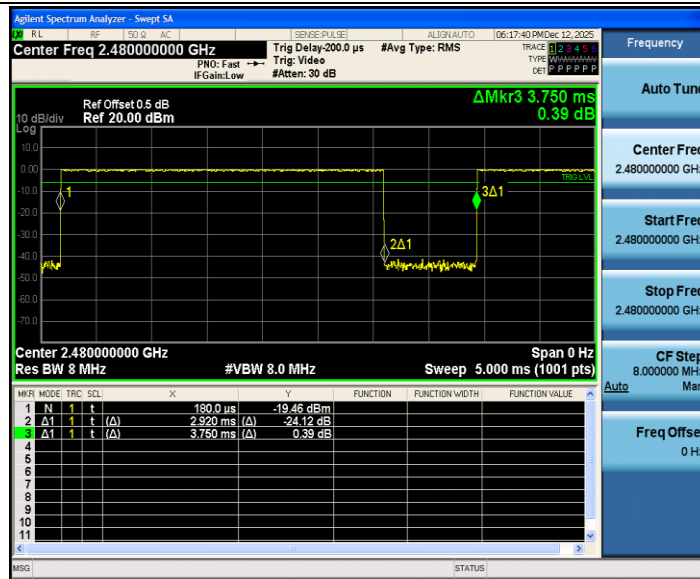
Appendix I: Duty Cycle

Test Result

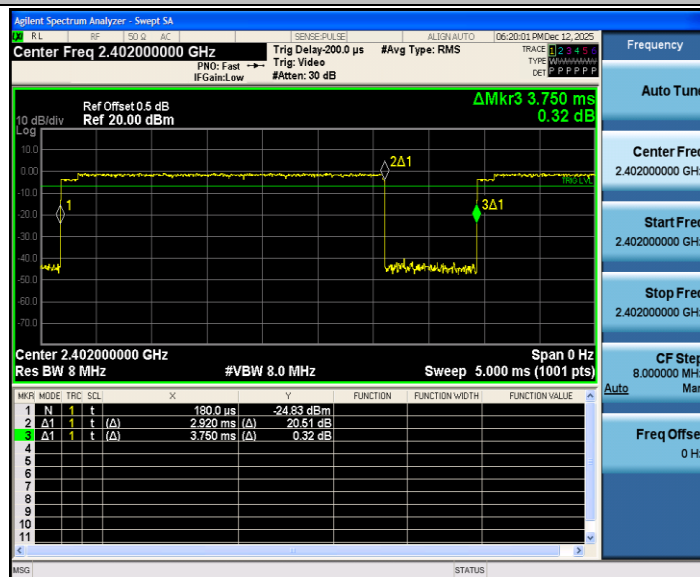
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

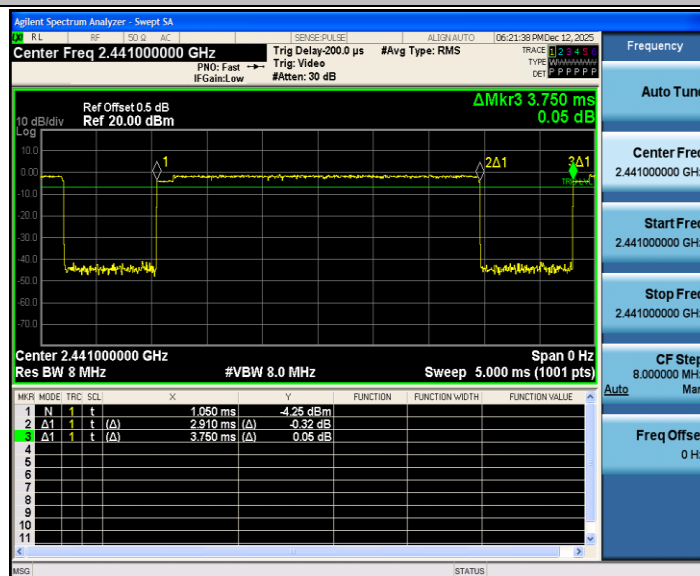




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

