

Appendix RF Test Data for BT

FCC ID : 2ASJK-FD05

Company : Guangzhou Pearl River Amason Digital Musical
Instrument Co., Ltd.

EUT : Digital piano

Model Number : FD05

Report No. : CTA25061800802

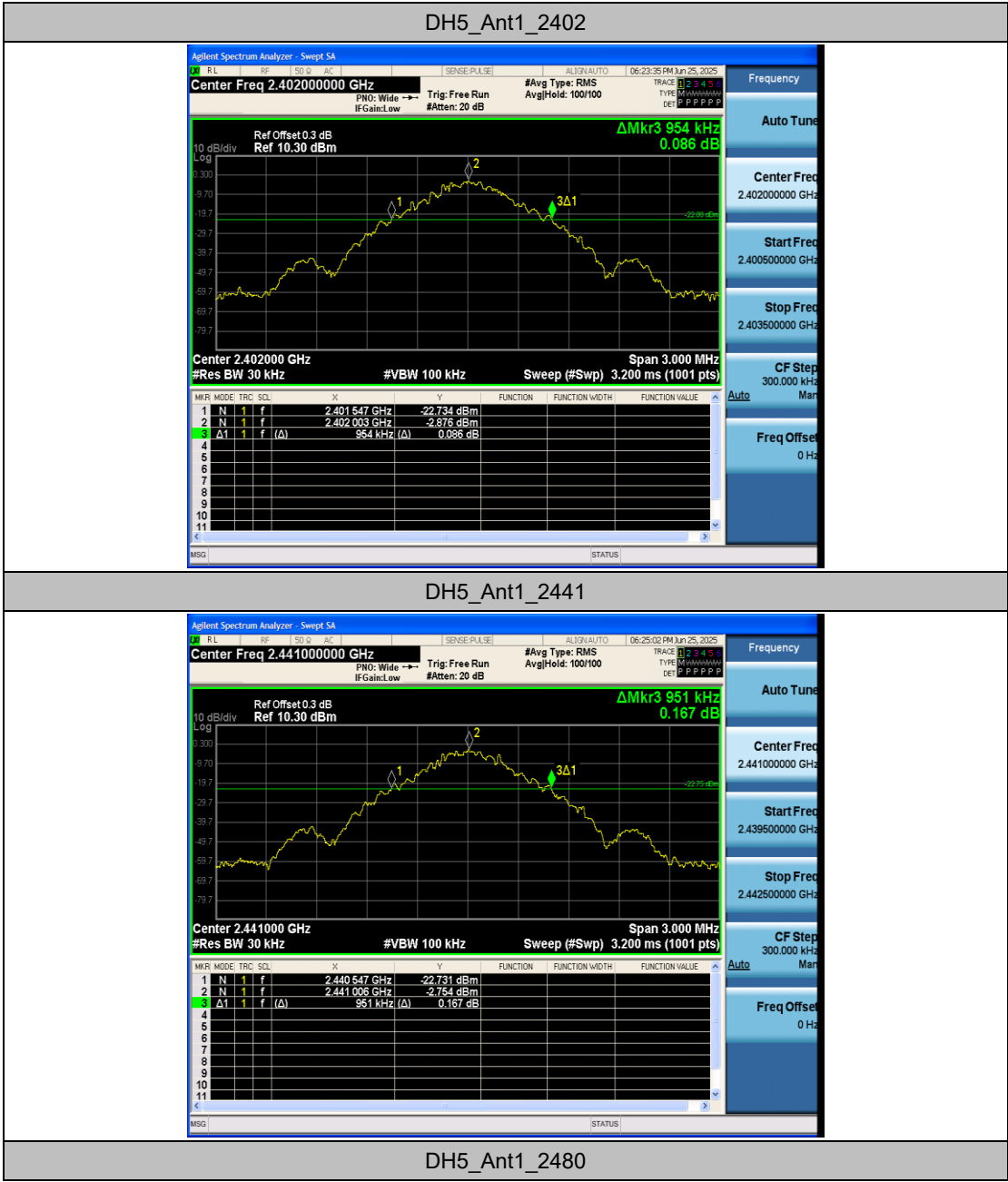
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.547	2402.501	---	---
		2441	0.951	2440.547	2441.498	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.317	2440.349	2441.666	---	---
		2480	1.281	2479.379	2480.660	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

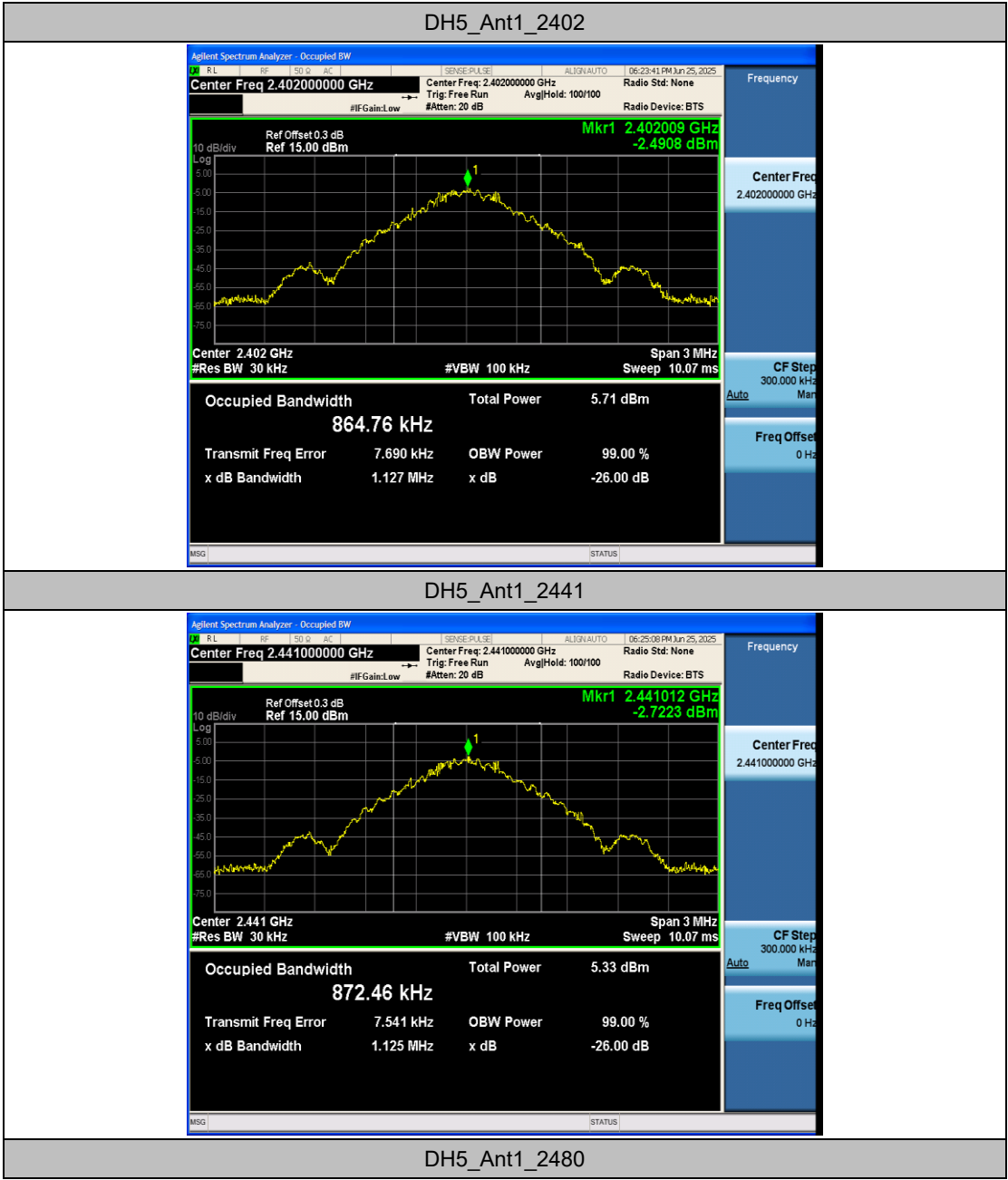


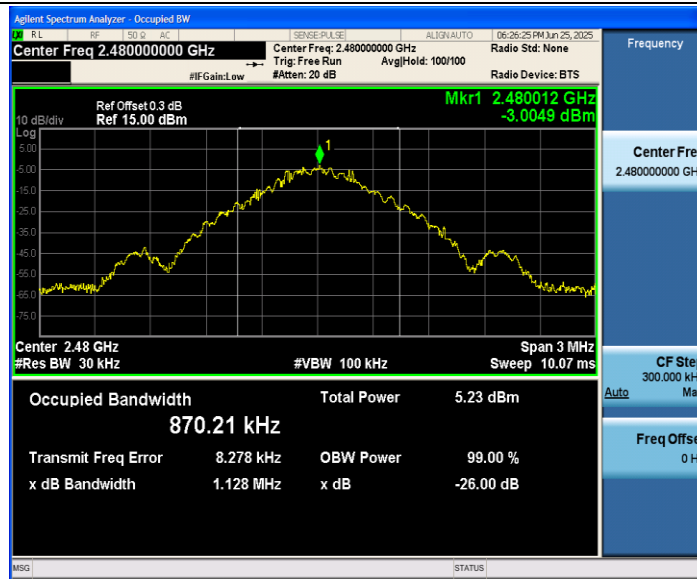
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86476	2401.5753	2402.4401	---	---
		2441	0.87246	2440.5713	2441.4438	---	---
		2480	0.87021	2479.5732	2480.4434	---	---
2DH5	Ant1	2402	1.1944	2401.4136	2402.6080	---	---
		2441	1.1849	2440.4171	2441.6020	---	---
		2480	1.1845	2479.4170	2480.6015	---	---

Test Graphs





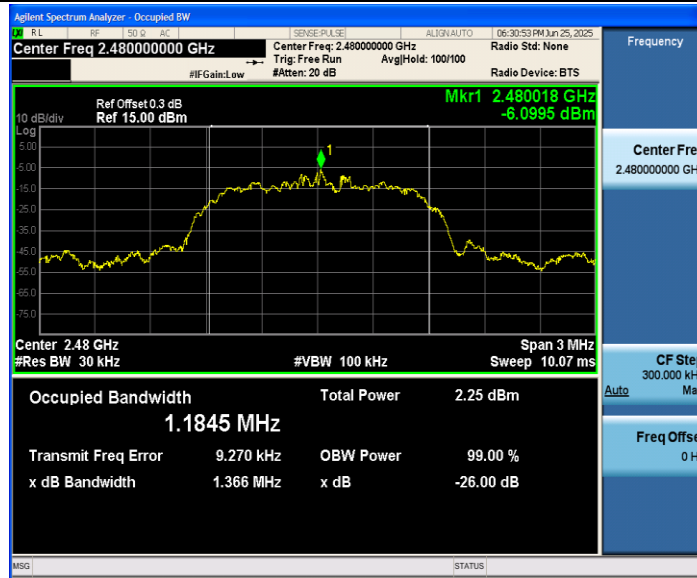
2DH5_Ant1_2402



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	-0.28	≤20.97	PASS
		2441	-0.55	≤20.97	PASS
		2480	-0.67	≤20.97	PASS
2DH5	Ant1	2402	-1.15	≤20.97	PASS
		2441	-1.35	≤20.97	PASS
		2480	-1.42	≤20.97	PASS

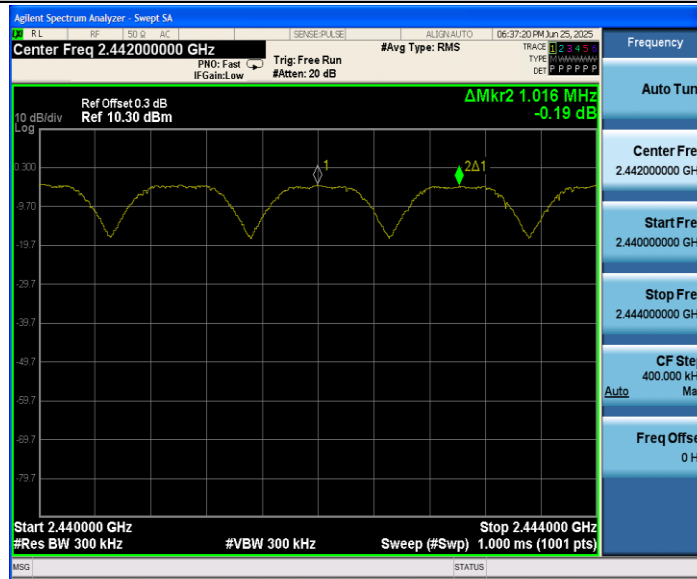
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.954	PASS
2DH5	Ant1	Hop	1.324	≥ 1.320	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop

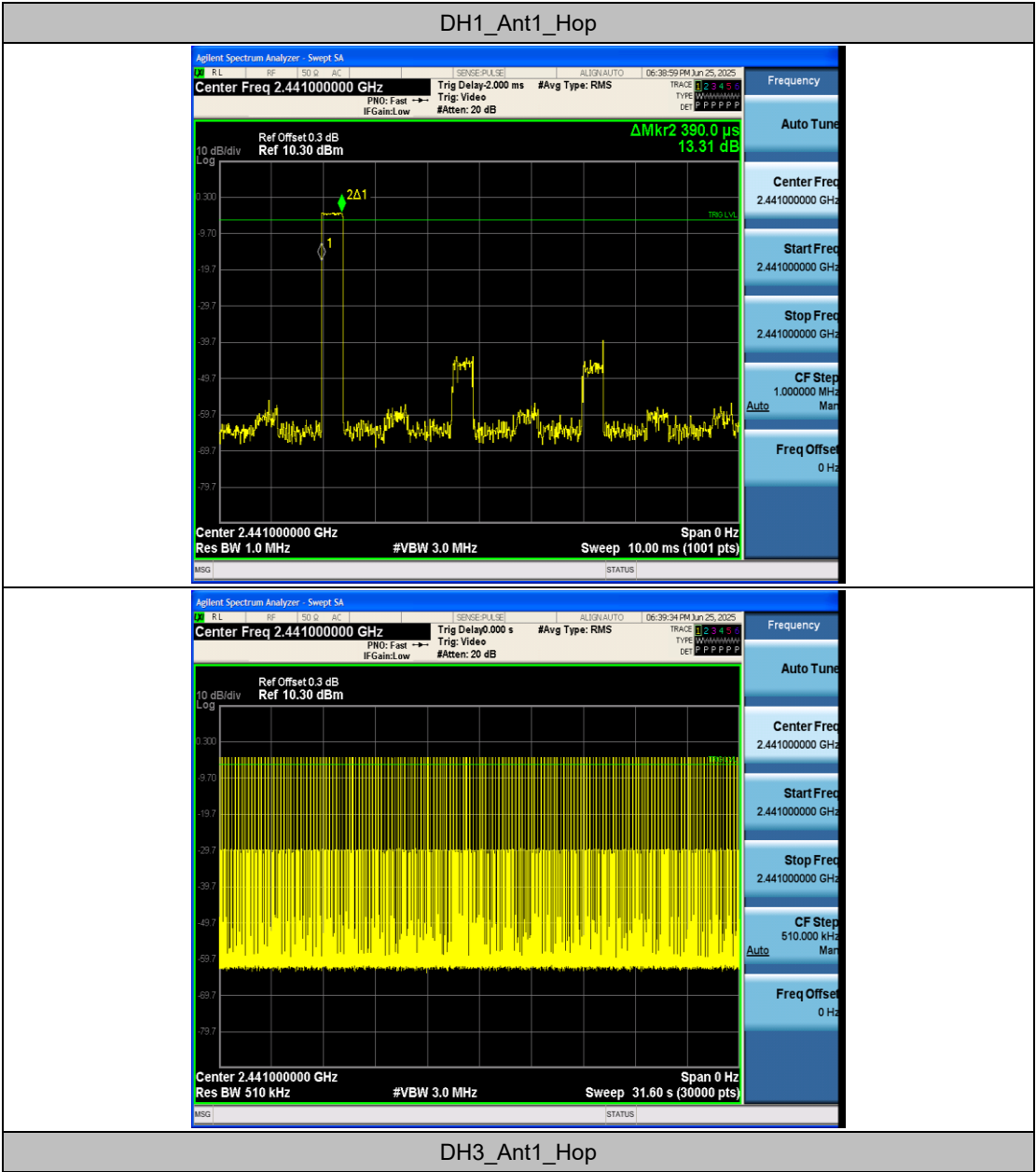


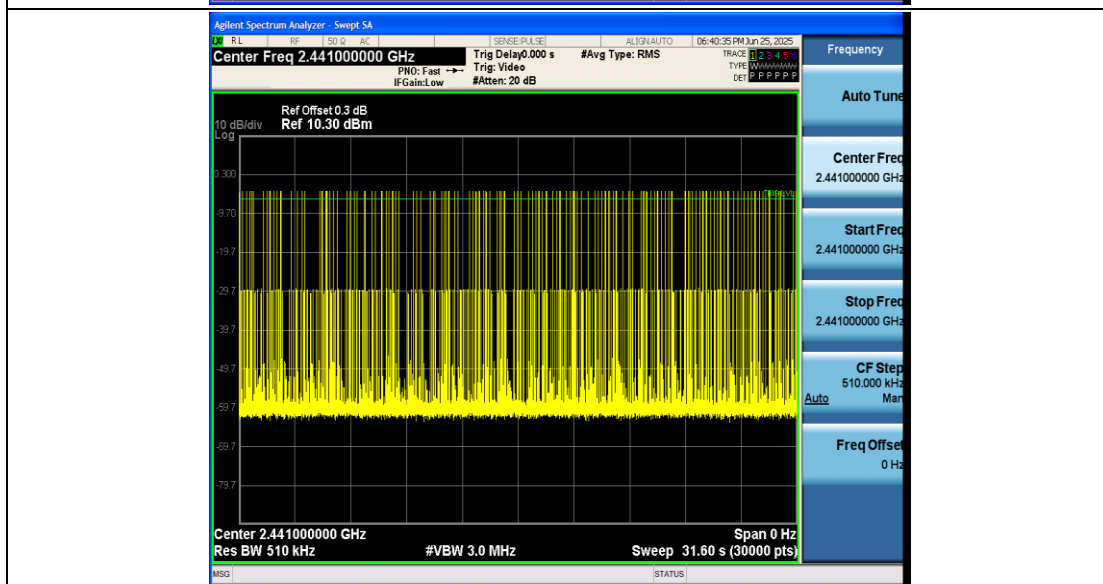
Appendix E: Time of occupancy

Test Result

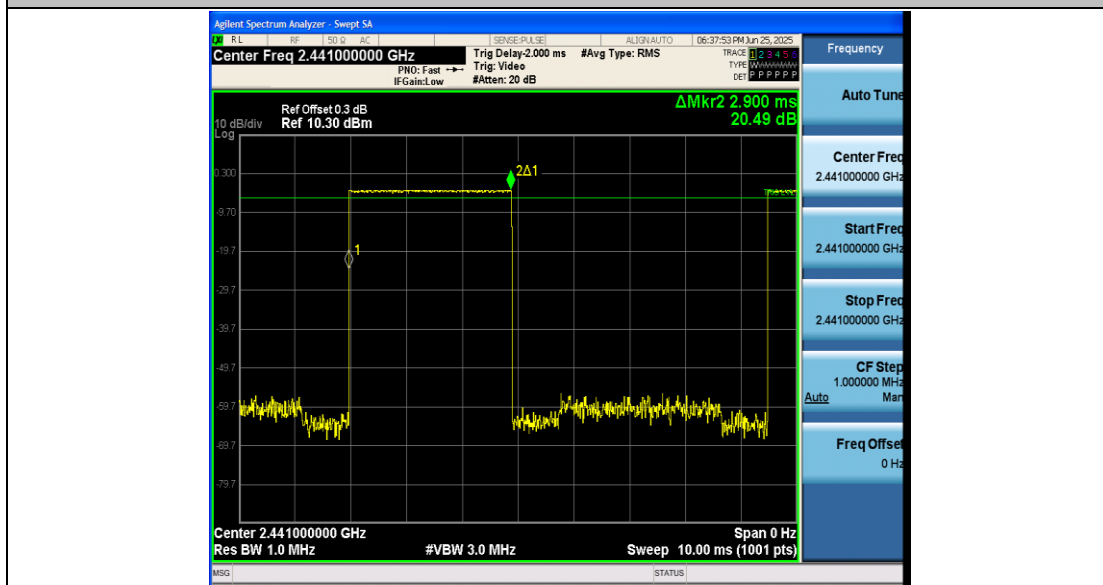
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	312	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.640	156	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.900	109	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.400	318	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	148	0.244	≤0.4	PASS
2DH5	Ant1	Hop	2.900	113	0.328	≤0.4	PASS

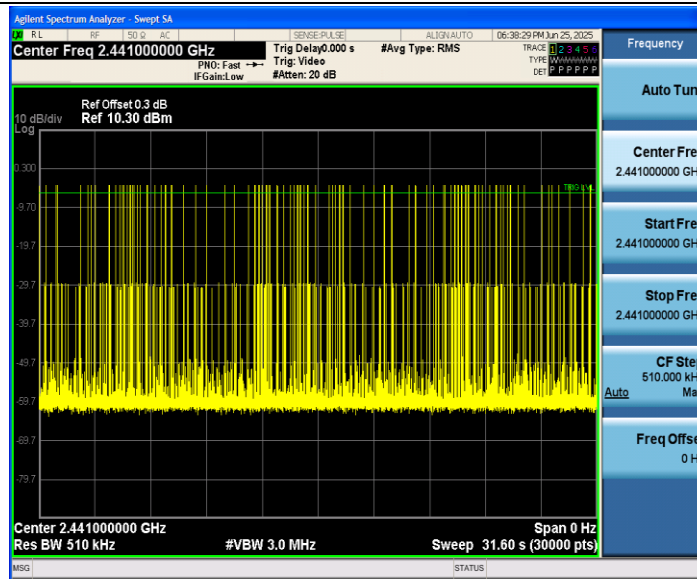
Test Graphs



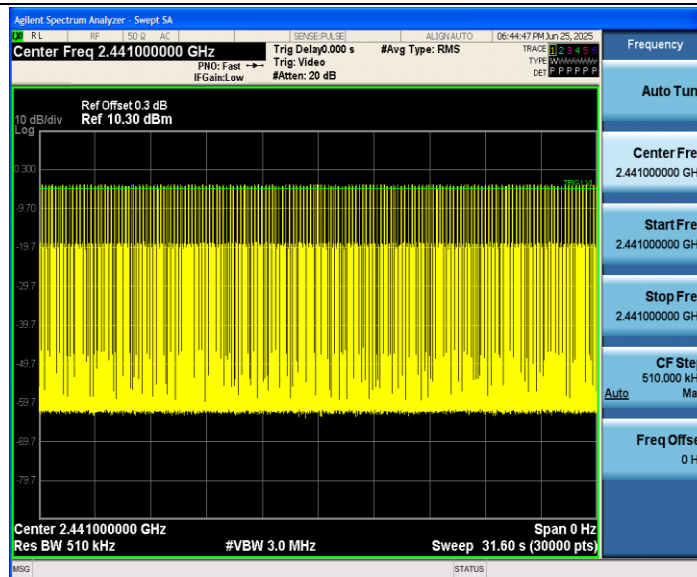
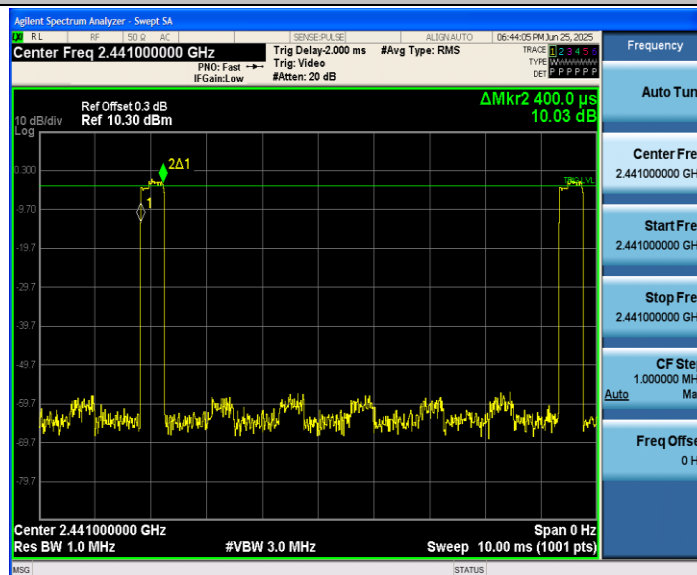


DH5_Ant1_Hop

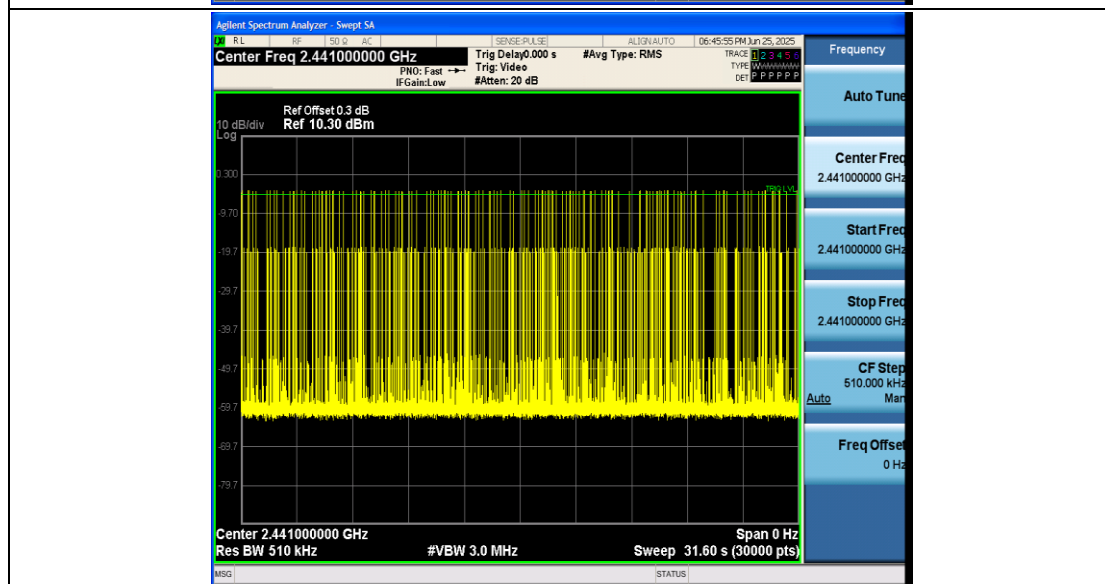
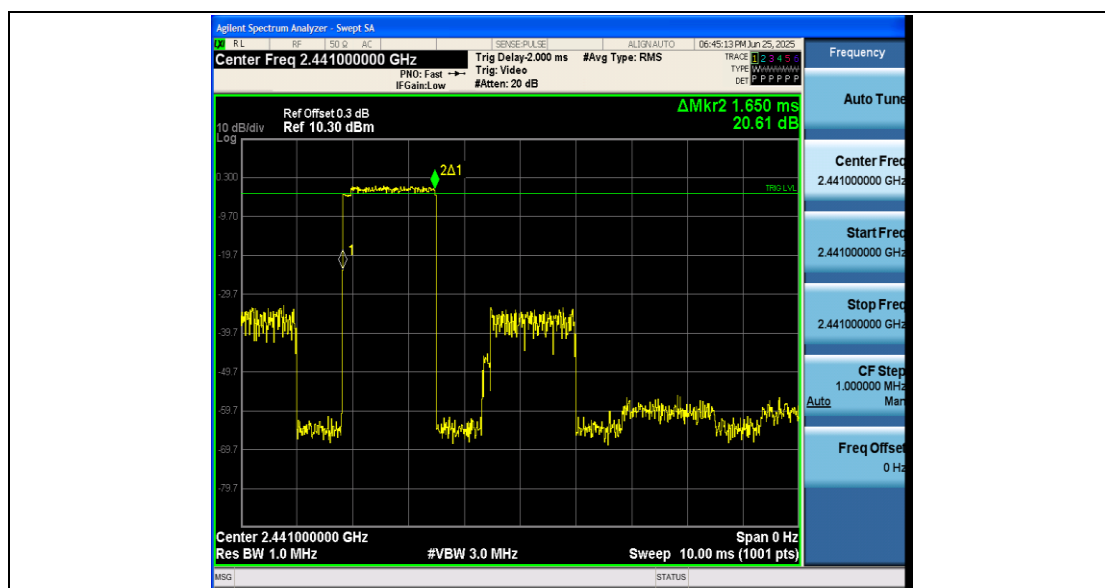




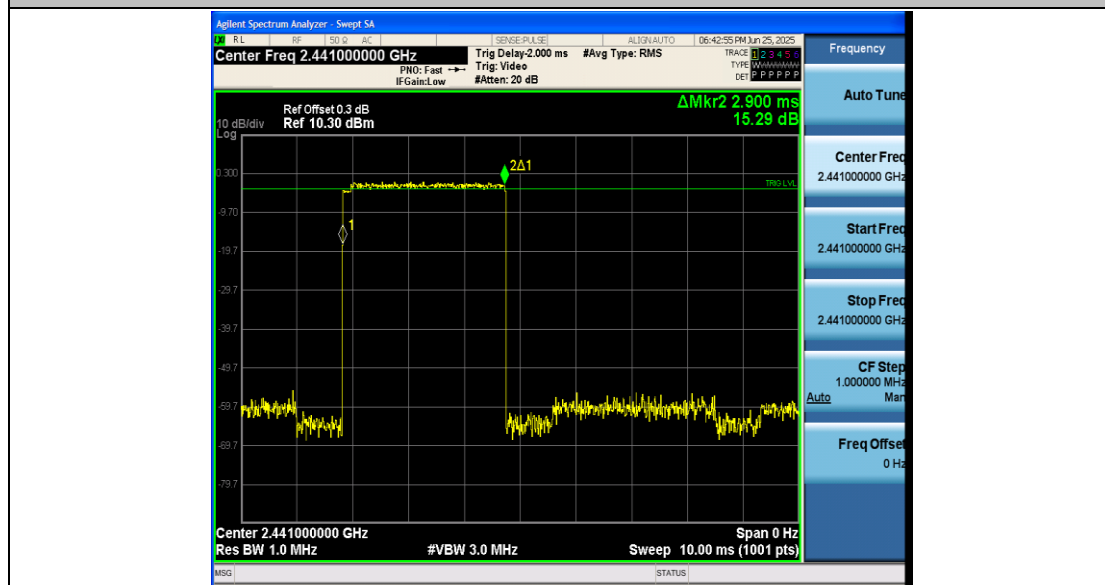
2DH1_Ant1_Hop

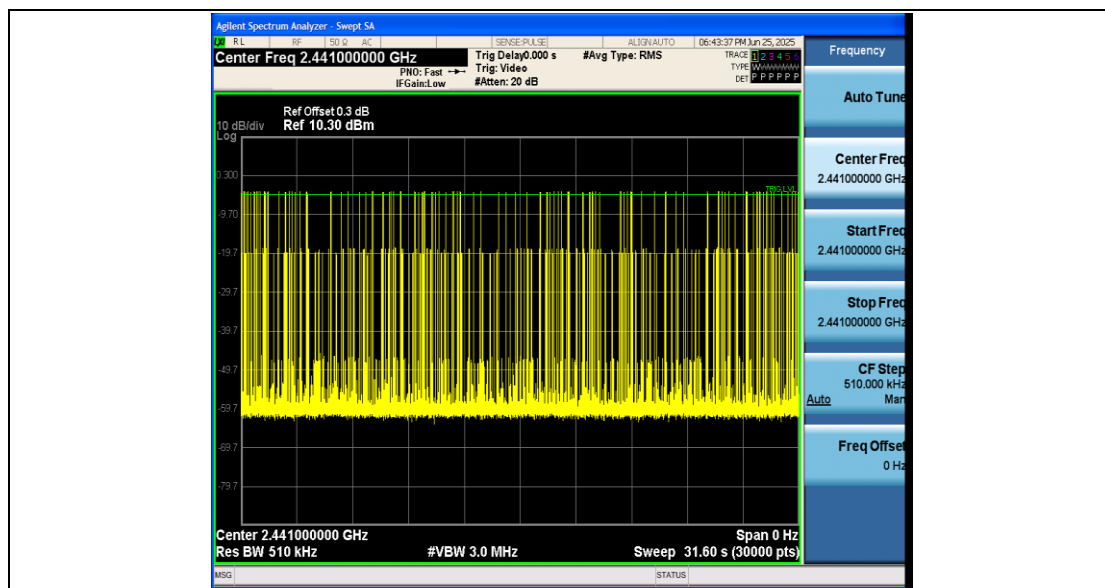


2DH3_Ant1_Hop



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

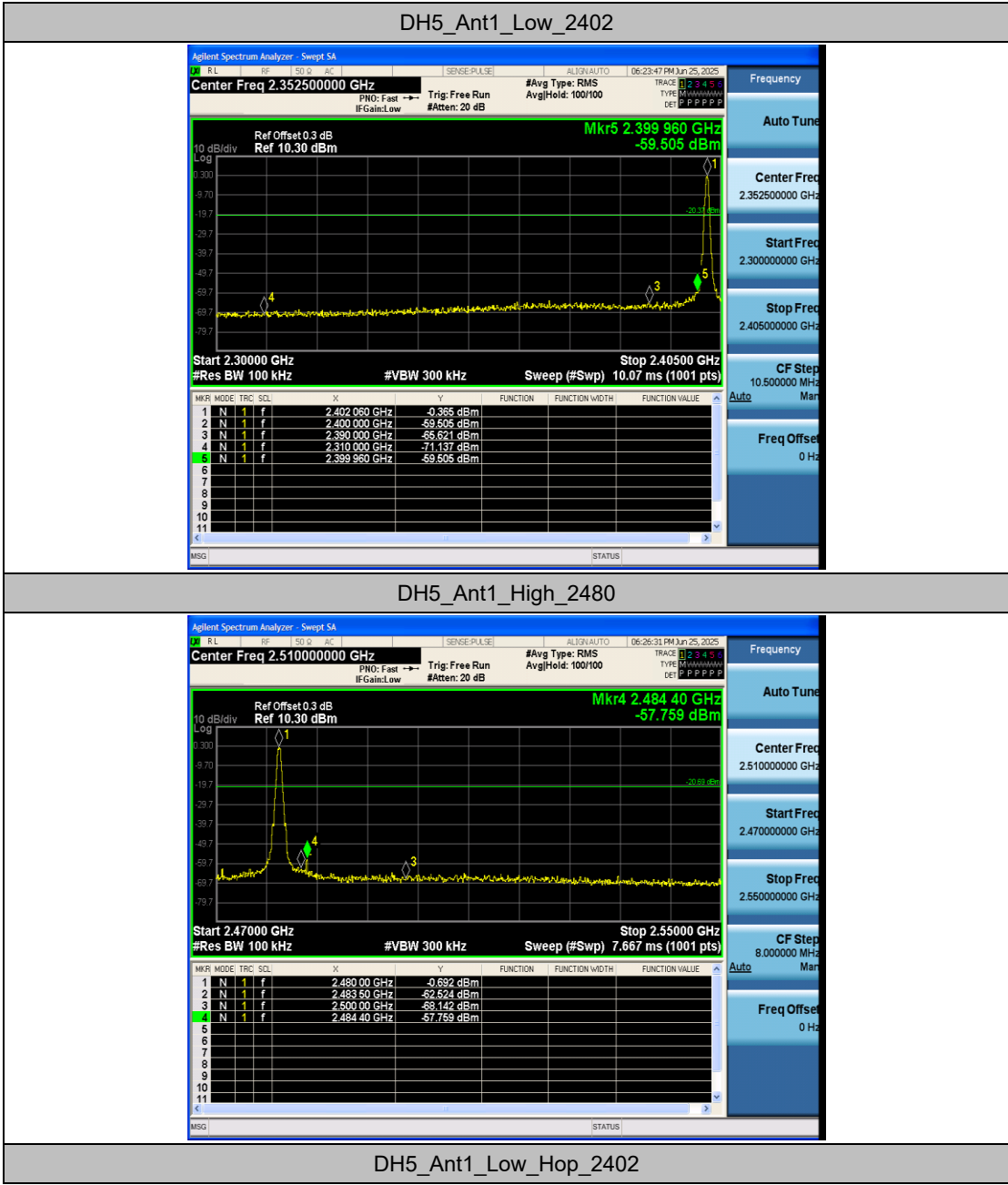


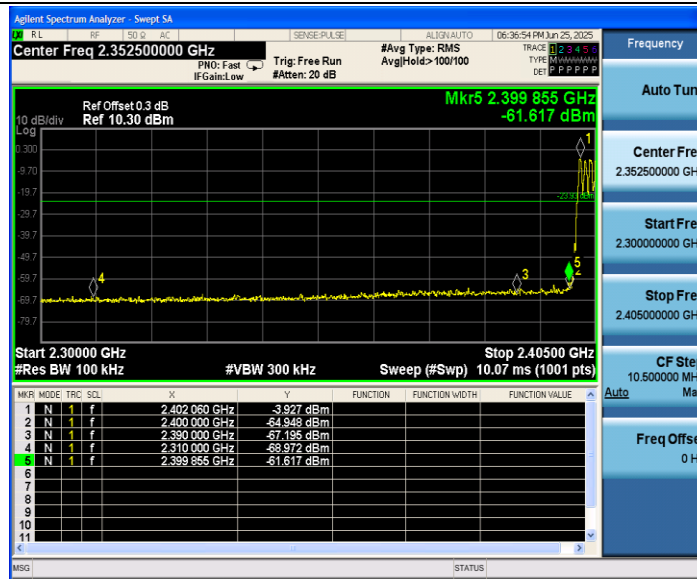
Appendix G: Band edge measurements

Test Result

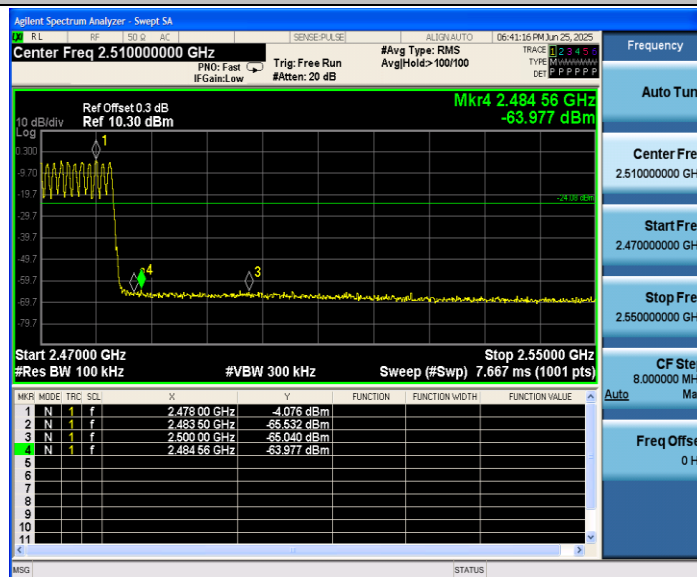
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.37	-59.51	≤-20.37	PASS
		High	2480	-0.69	-57.76	≤-20.69	PASS
		Low	Hop_2402	-3.93	-61.62	≤-23.93	PASS
		High	Hop_2480	-4.08	-63.98	≤-24.08	PASS
2DH5	Ant1	Low	2402	-4.56	-61.41	≤-24.56	PASS
		High	2480	-5.13	-56.89	≤-25.13	PASS
		Low	Hop_2402	-5.13	-63.13	≤-25.13	PASS
		High	Hop_2480	-4.21	-57.05	≤-24.21	PASS

Test Graphs

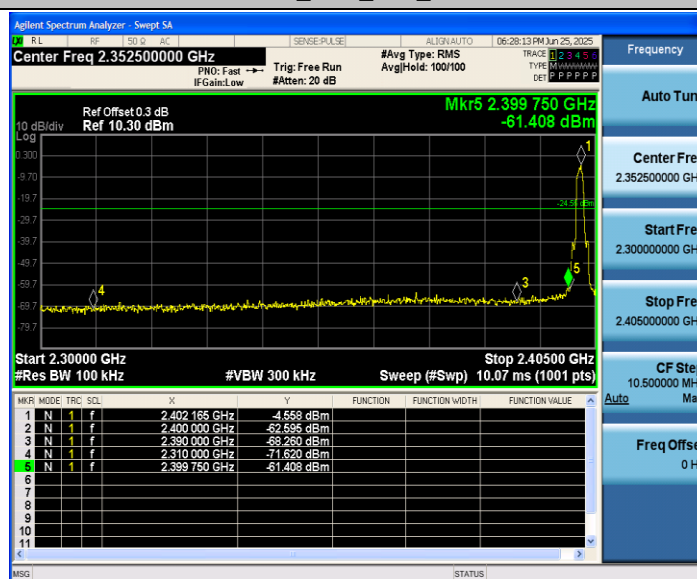




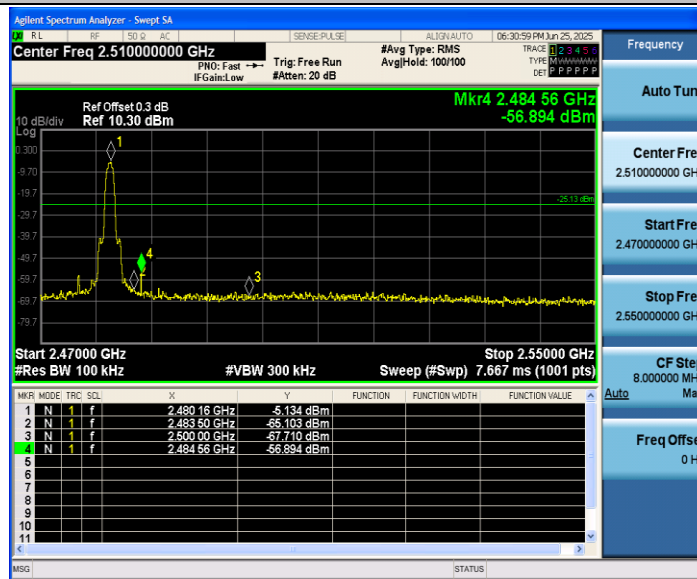
DH5_Ant1_High_Hop_2480



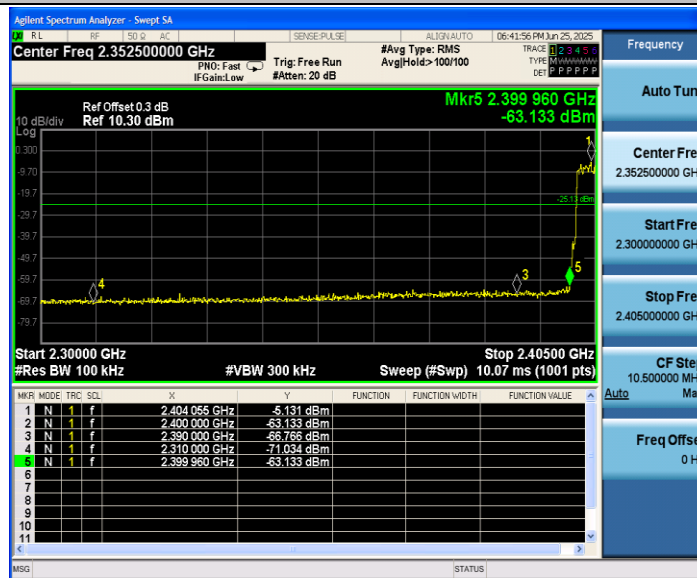
2DH5_Ant1_Low_2402



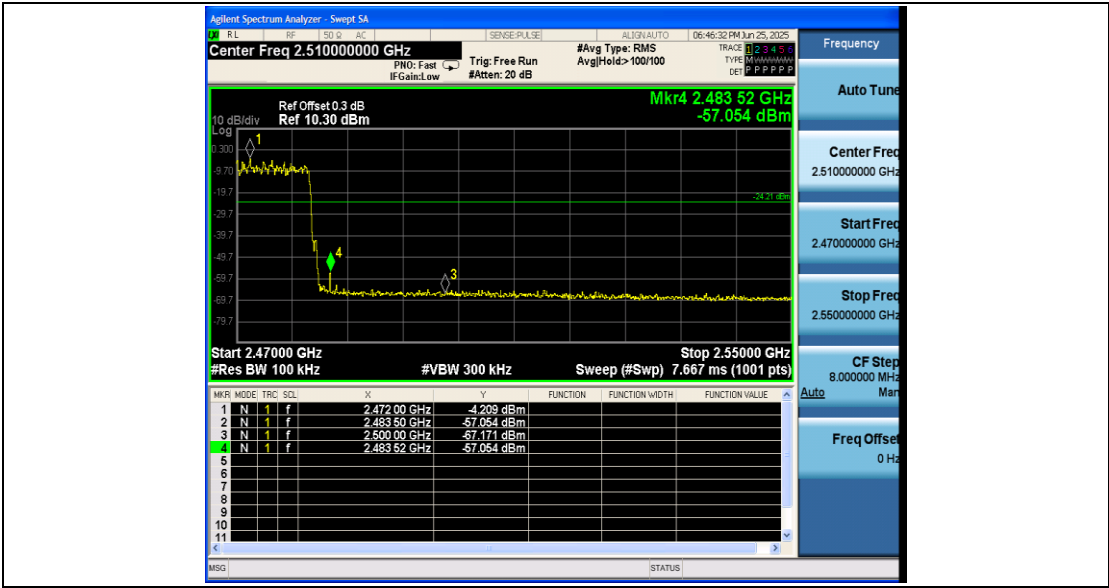
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

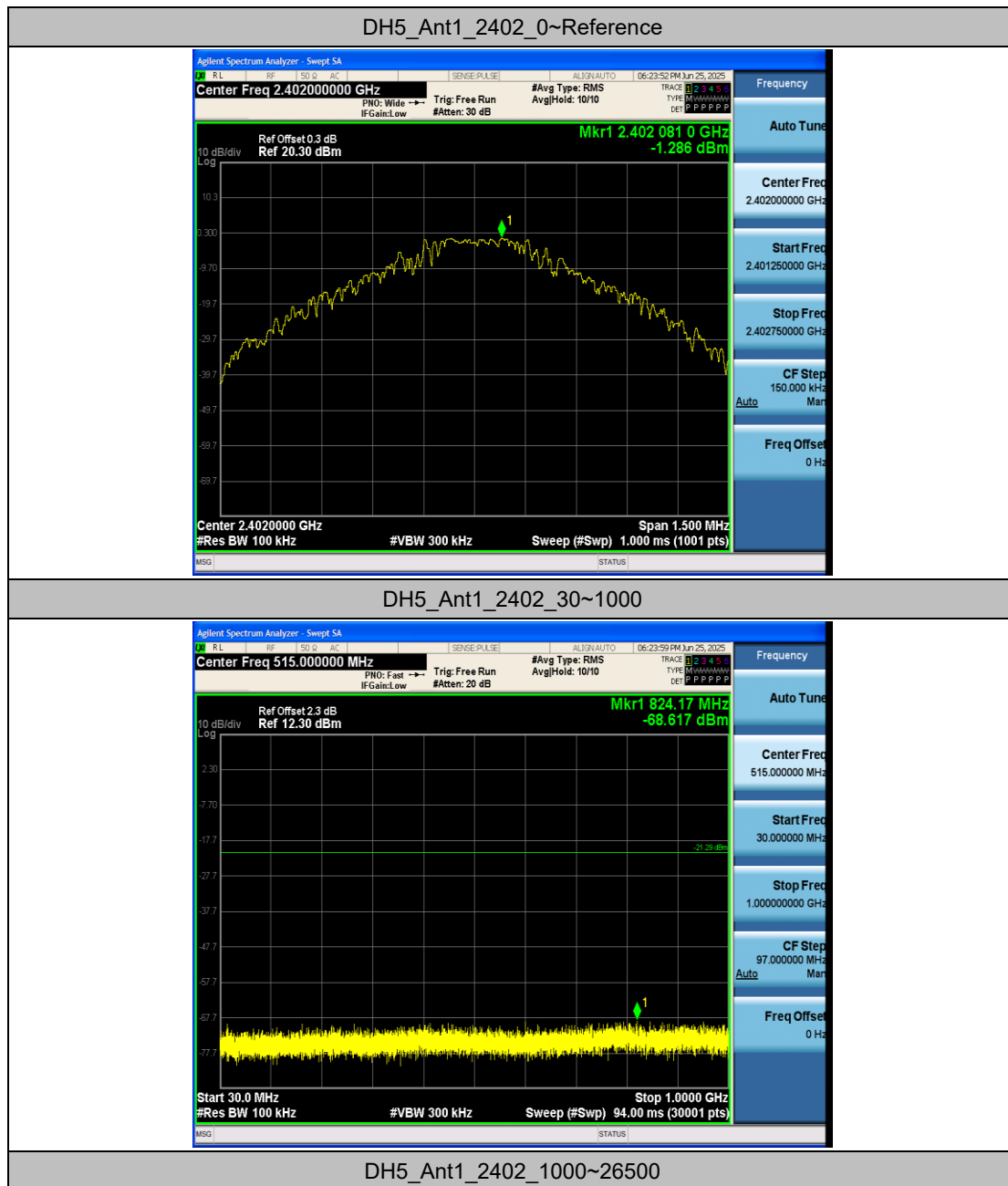


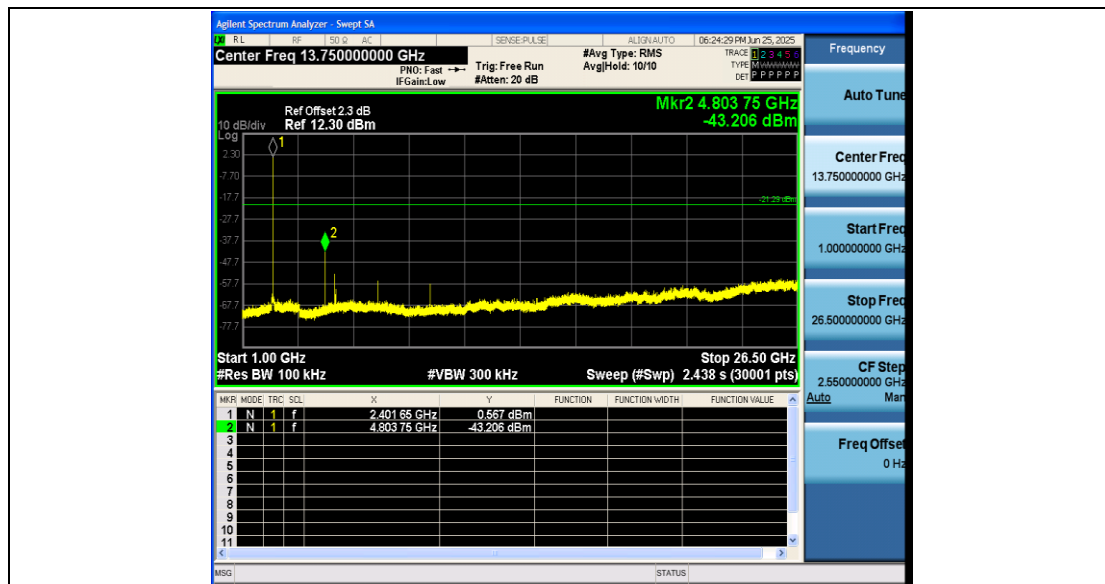
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-68.62	≤-21.29	PASS
			1000~26500	-1.29	-43.21	≤-21.29	PASS
		2441	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-67.81	≤-21.06	PASS
			1000~26500	-1.06	-42.34	≤-21.06	PASS
		2480	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-68.07	≤-21.82	PASS
			1000~26500	-1.82	-43.53	≤-21.82	PASS
2DH5	Ant1	2402	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-67.71	≤-25.69	PASS
			1000~26500	-5.69	-48.39	≤-25.69	PASS
		2441	Reference	-6.96	-6.96	---	PASS
			30~1000	-6.96	-68.63	≤-26.96	PASS
			1000~26500	-6.96	-49.89	≤-26.96	PASS
		2480	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-68.23	≤-25.69	PASS
			1000~26500	-5.69	-50.92	≤-25.69	PASS

Test Graphs

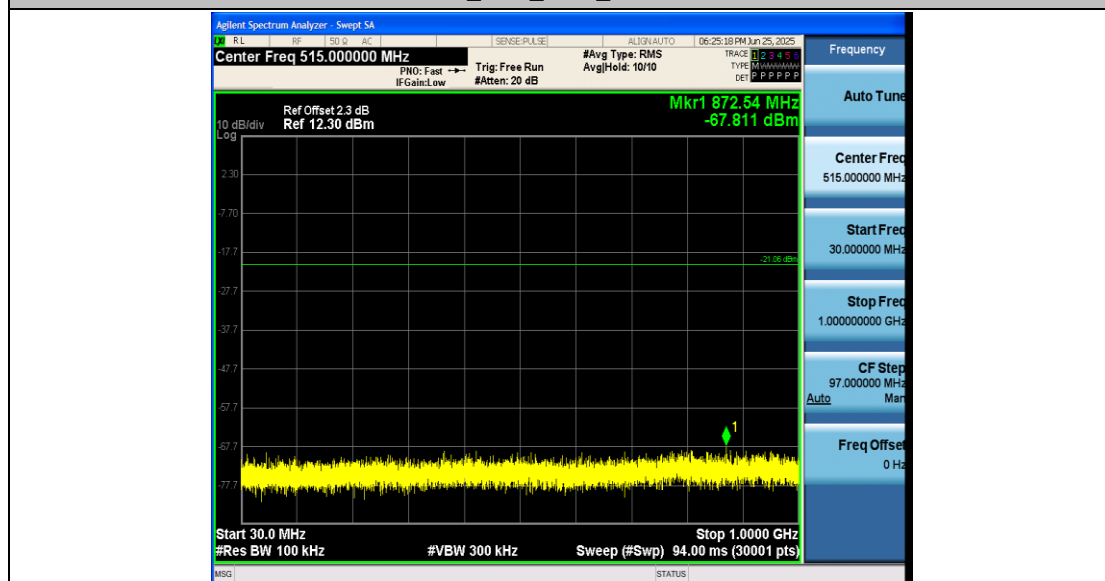




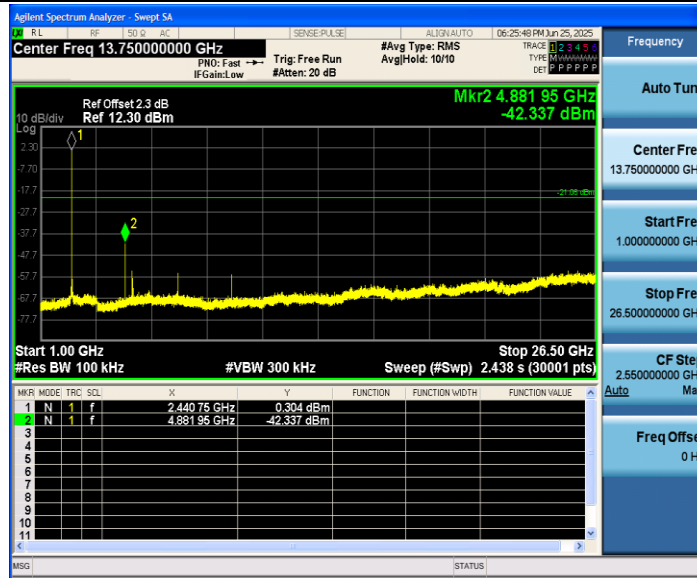
DH5_Ant1_2441_0~Reference



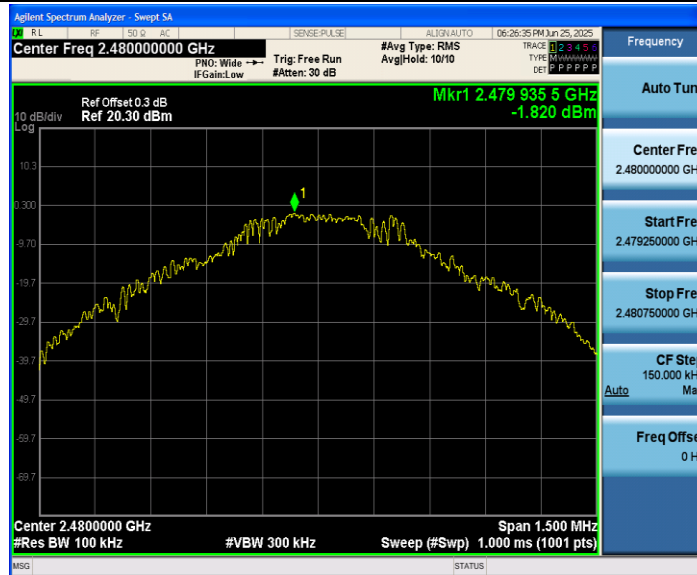
DH5_Ant1_2441_30~1000



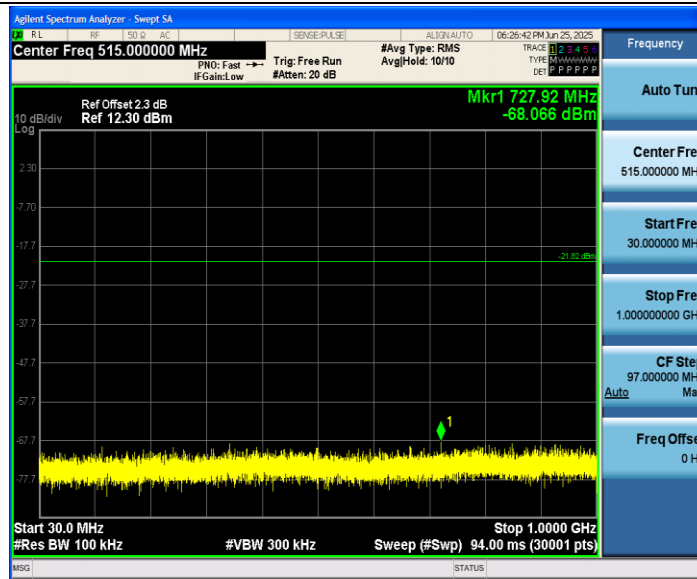
DH5_Ant1_2441_1000~26500



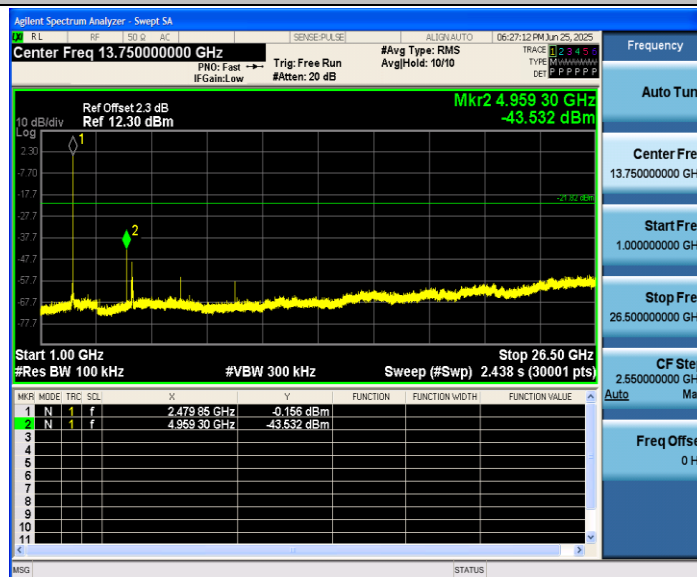
DH5_Ant1_2480_0~Reference



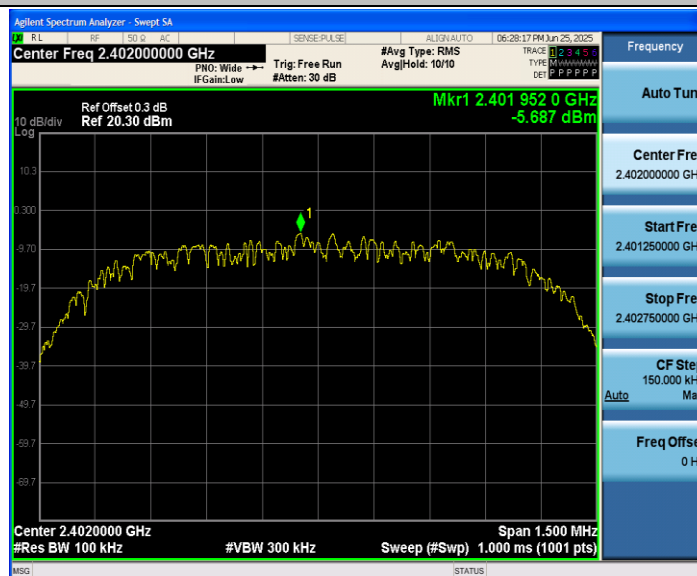
DH5_Ant1_2480_30~1000



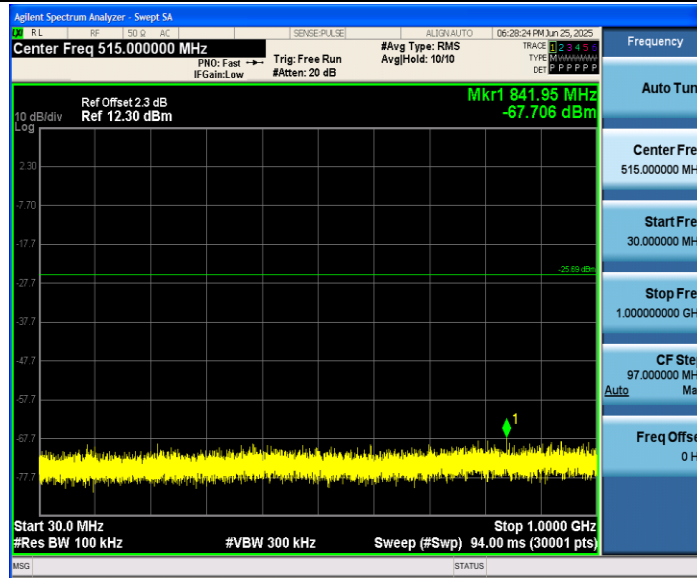
DH5_Ant1_2480_1000~26500



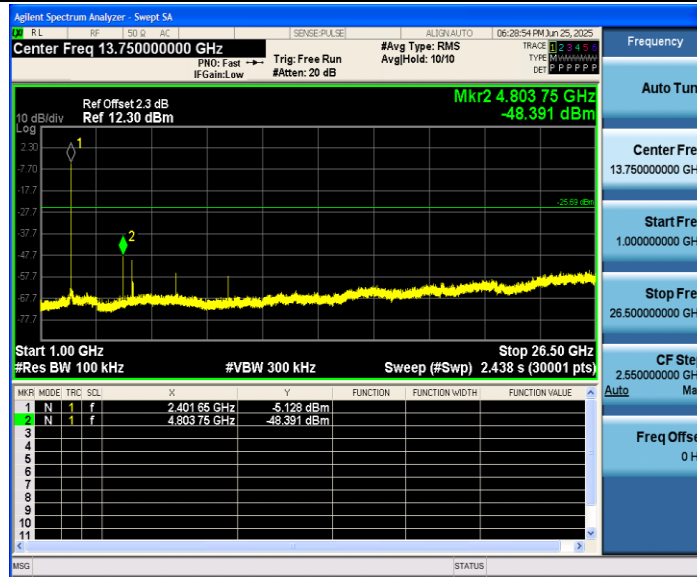
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



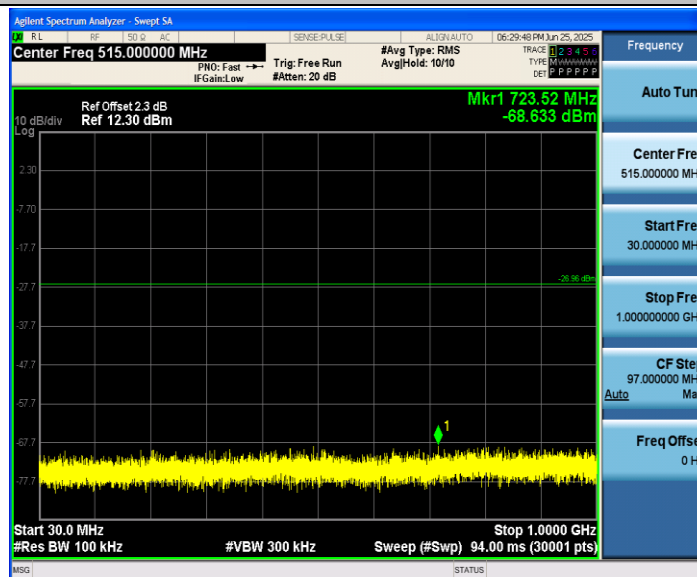
2DH5_Ant1_2402_1000~26500



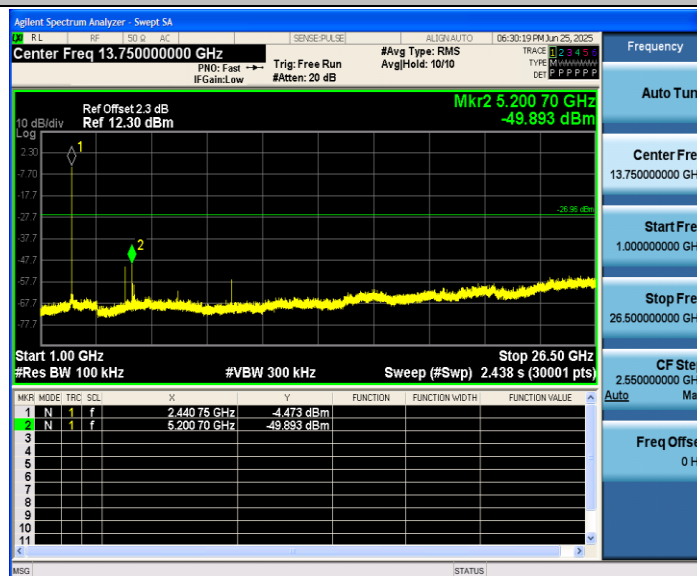
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



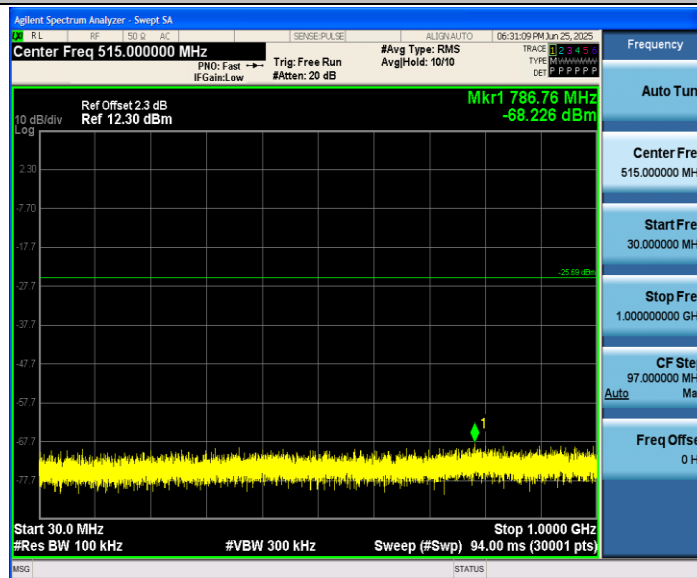
2DH5_Ant1_2441_1000~26500



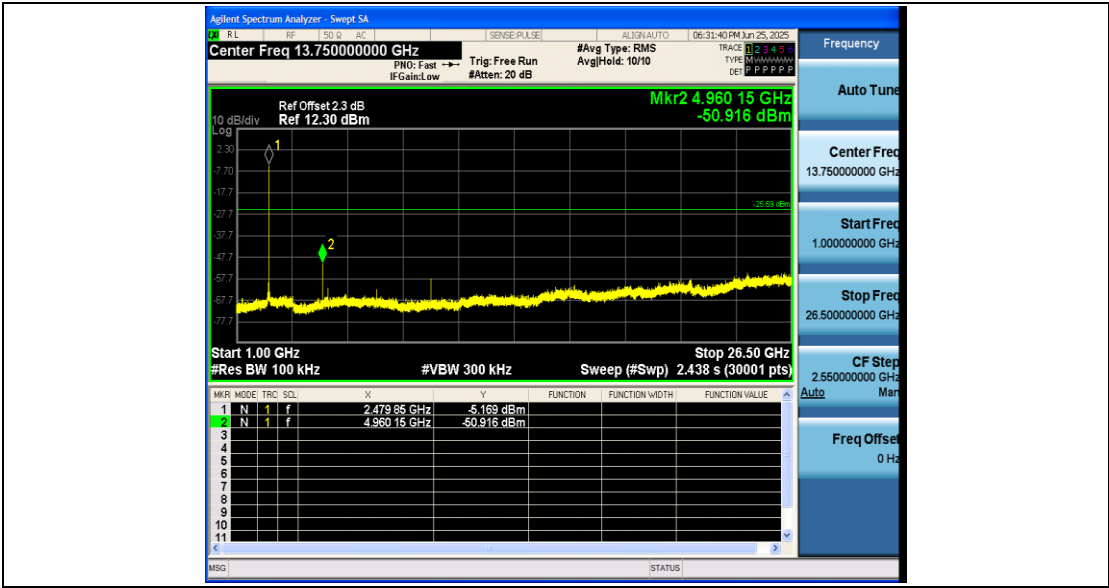
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

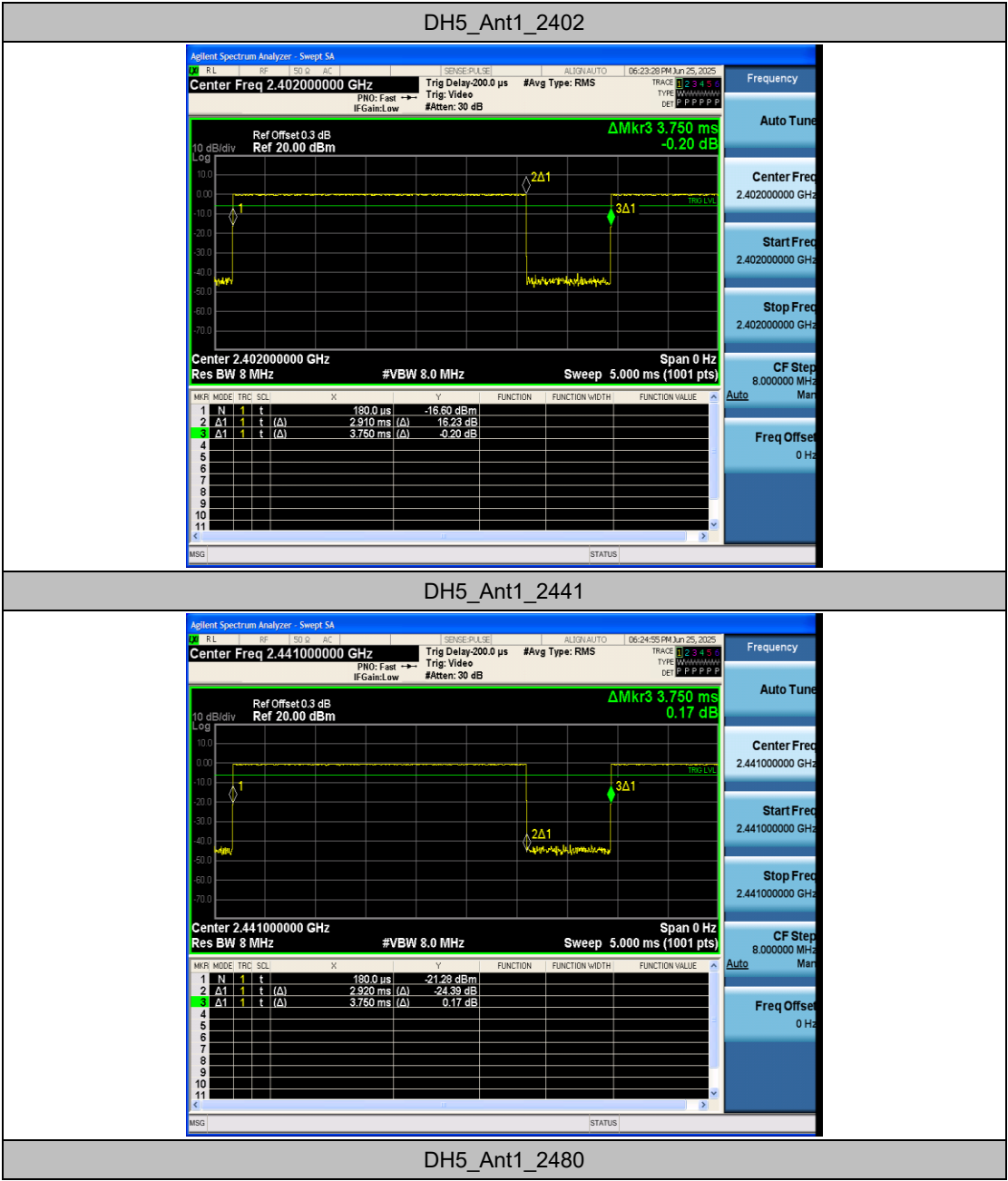


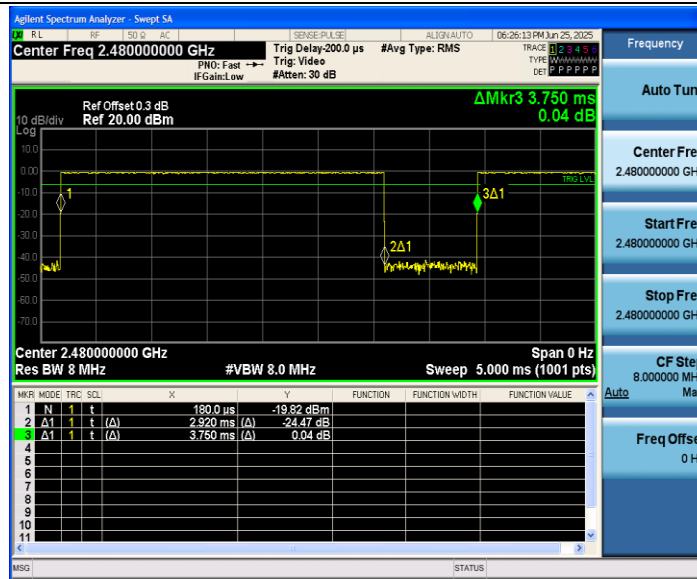
Appendix I: Duty Cycle

Test Result

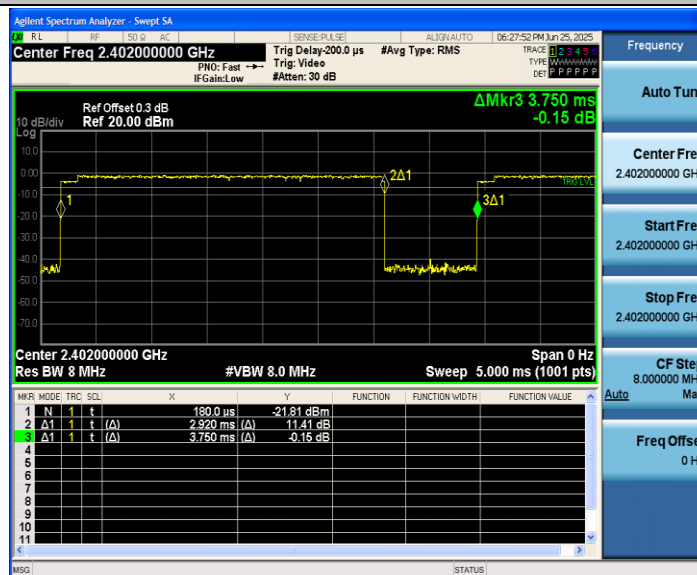
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

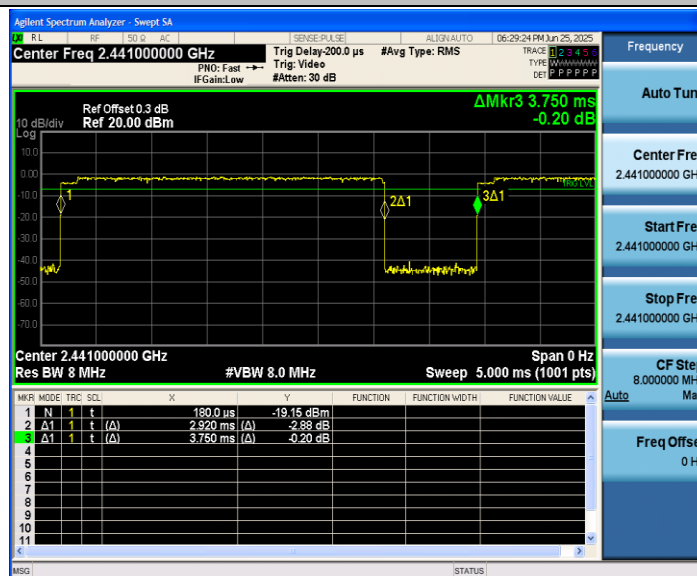




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

