

FCC Appendix RF Test Data for BT

FCC ID : 2AO85-HICOREH2

Company : SHENZHEN JINGDU TECHNOLOGY CO.,LTD

EUT : Amplifiers

Model Number : HiCore H2

Report No. : CTA26032300801

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	0.948	2401.550	2402.498	---	---
		2441	0.954	2440.544	2441.498	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.311	2401.355	2402.666	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.290	2479.376	2480.666	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

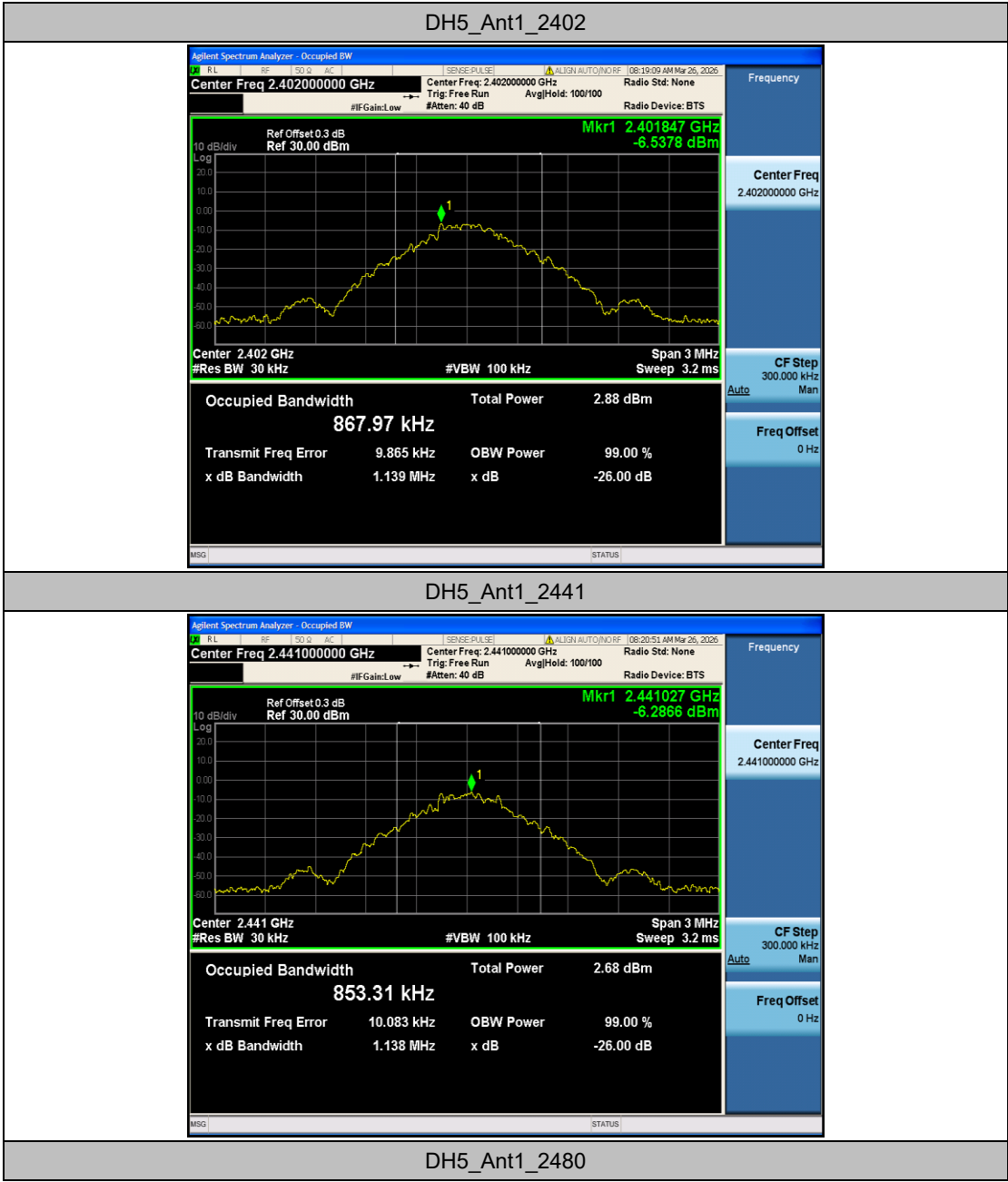


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86797	2401.5759	2402.4439	---	---
		2441	0.85331	2440.5834	2441.4367	---	---
		2480	0.86722	2479.5795	2480.4467	---	---
2DH5	Ant1	2402	1.1907	2401.4151	2402.6058	---	---
		2441	1.1861	2440.4176	2441.6037	---	---
		2480	1.1863	2479.4164	2480.6027	---	---

Test Graphs

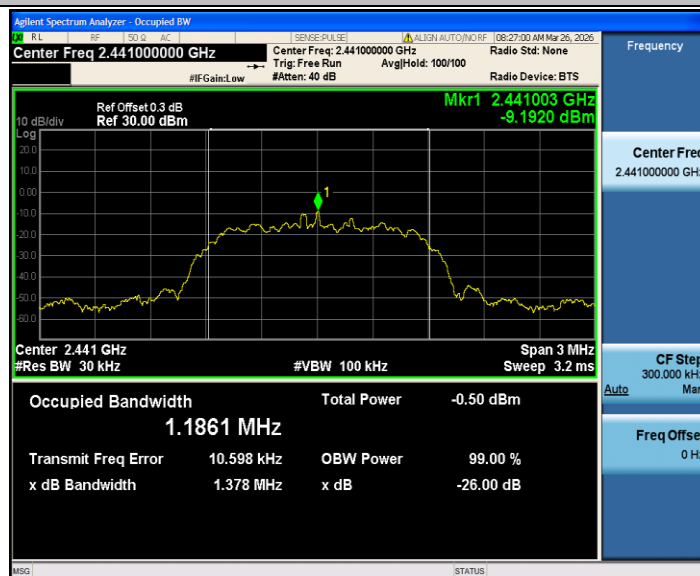




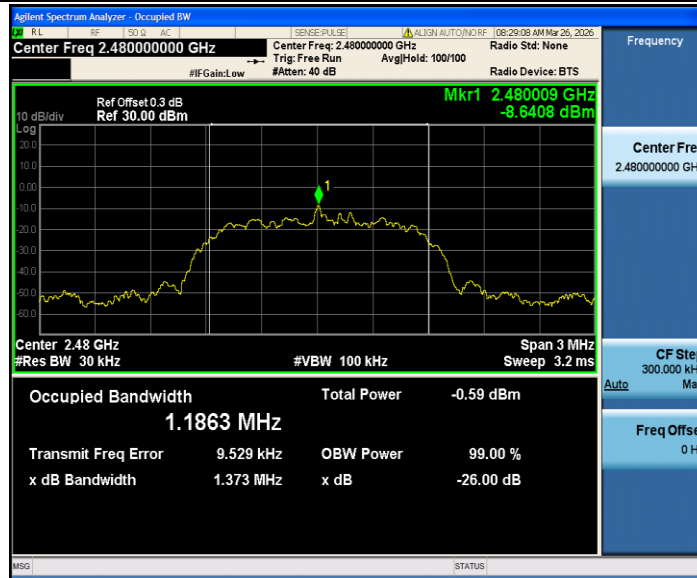
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

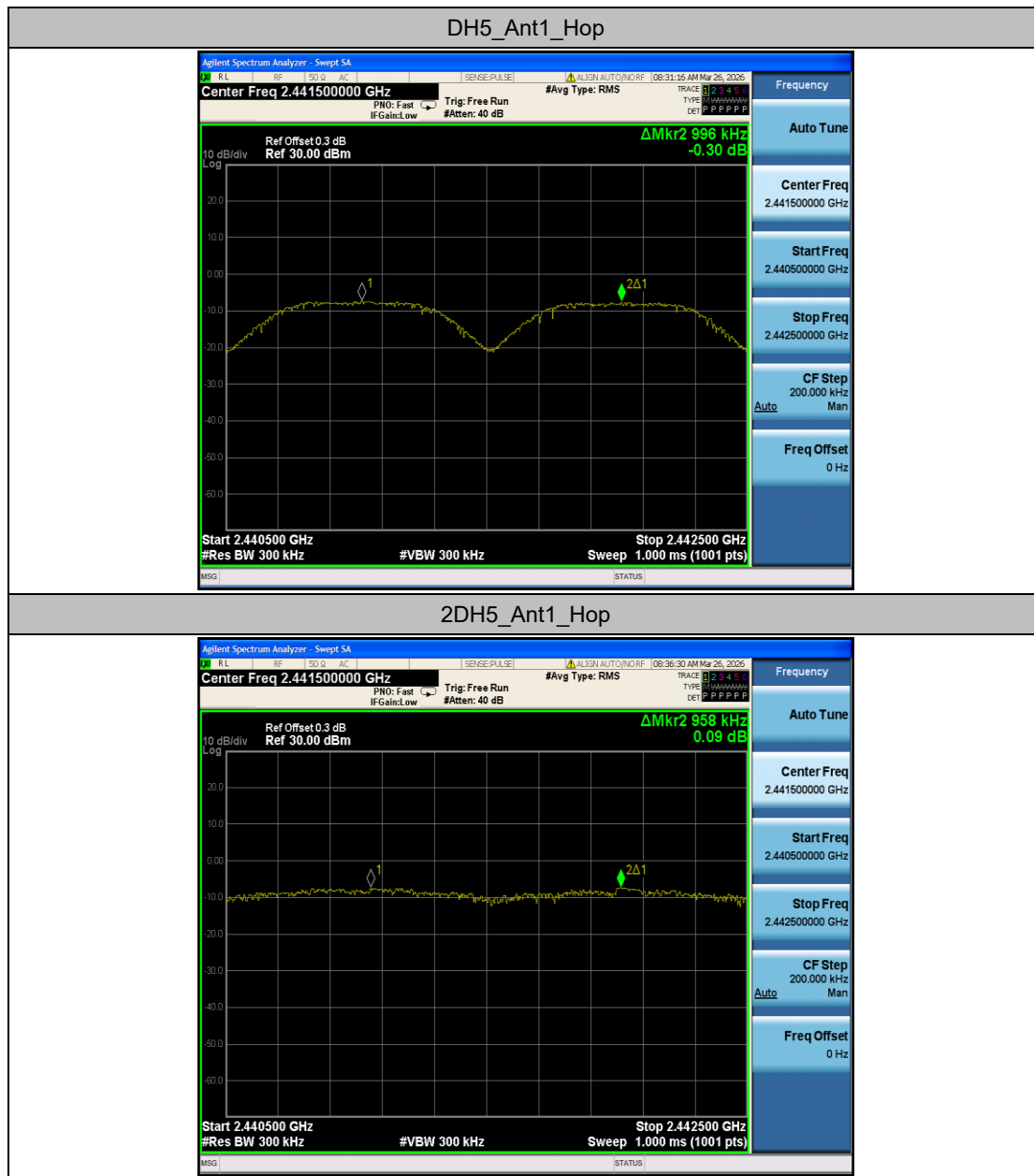
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.48	≤20.97	PASS
		2441	-3.80	≤20.97	PASS
		2480	-3.89	≤20.97	PASS
2DH5	Ant1	2402	-4.22	≤20.97	PASS
		2441	-4.48	≤20.97	PASS
		2480	-4.63	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.954	PASS
2DH5	Ant1	Hop	0.958	≥ 0.874	PASS

Test Graphs

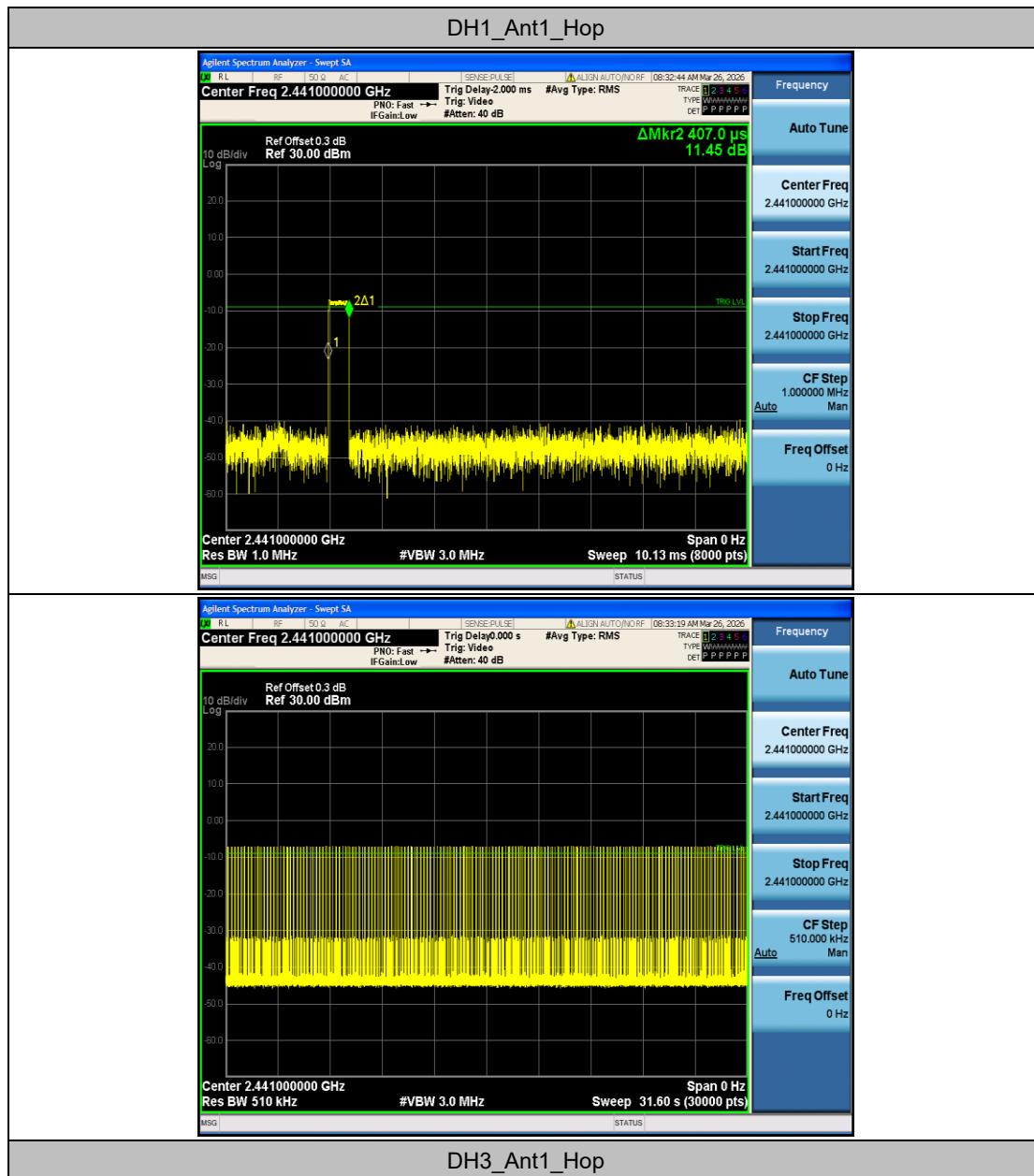


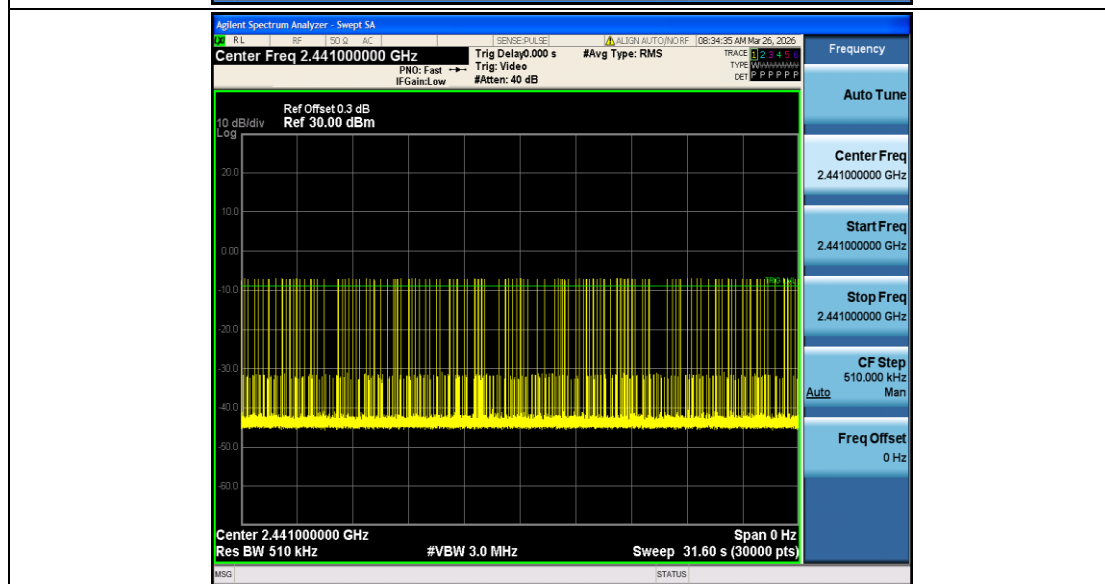
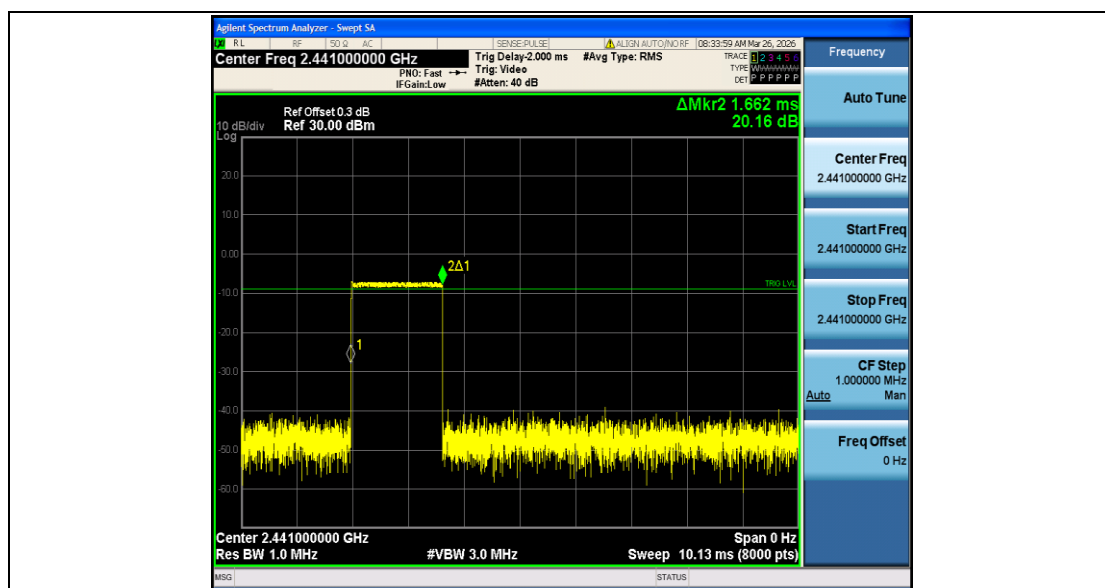
Appendix E: Time of occupancy

Test Result

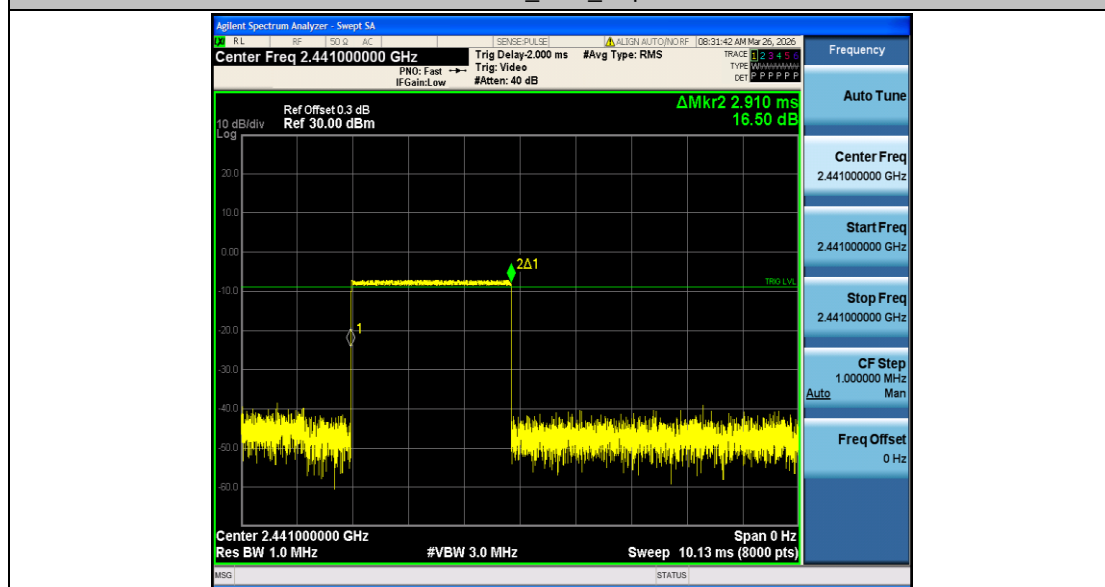
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	148	0.246	≤0.4	PASS
DH5	Ant1	Hop	2.910	113	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.417	315	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	160	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.916	99	0.289	≤0.4	PASS

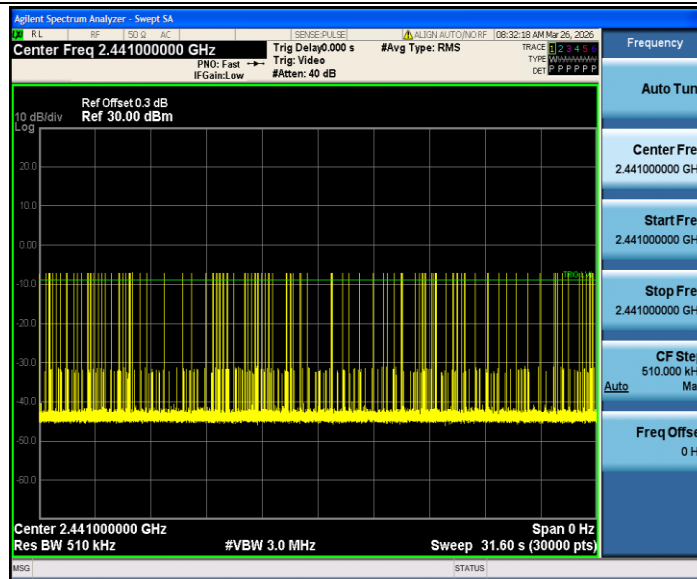
Test Graphs



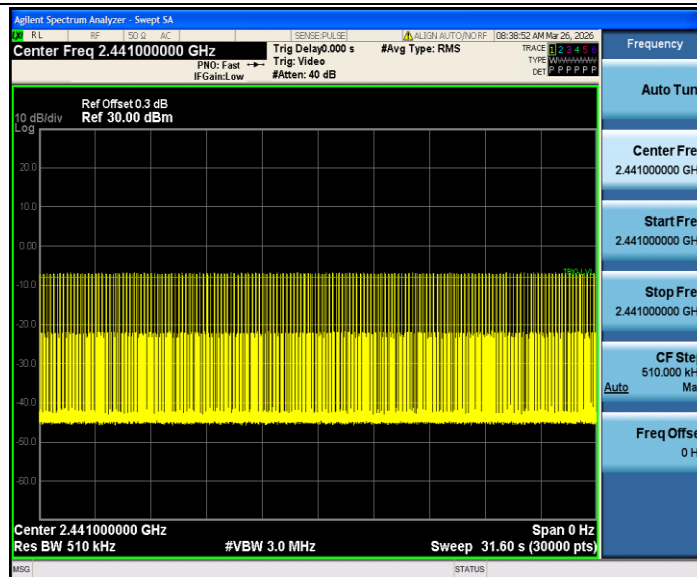
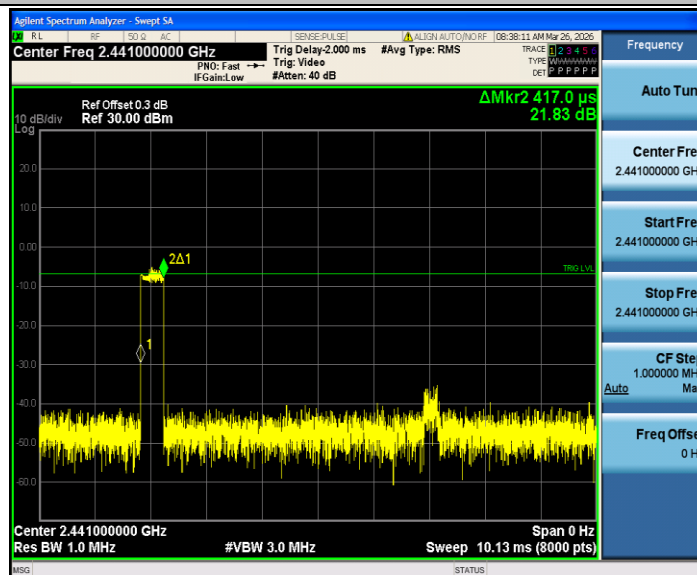


DH5_Ant1_Hop

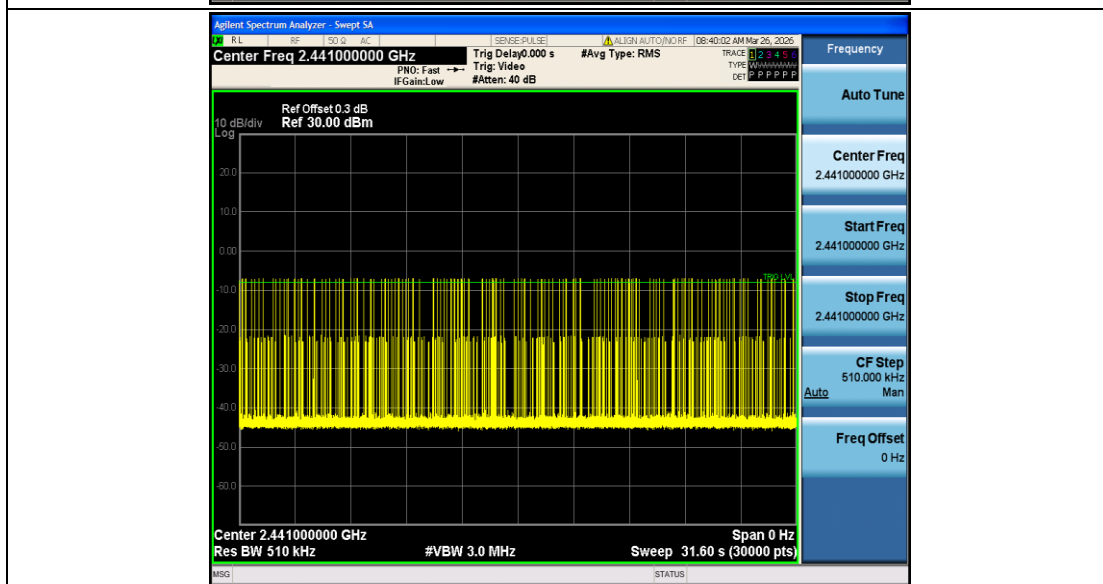
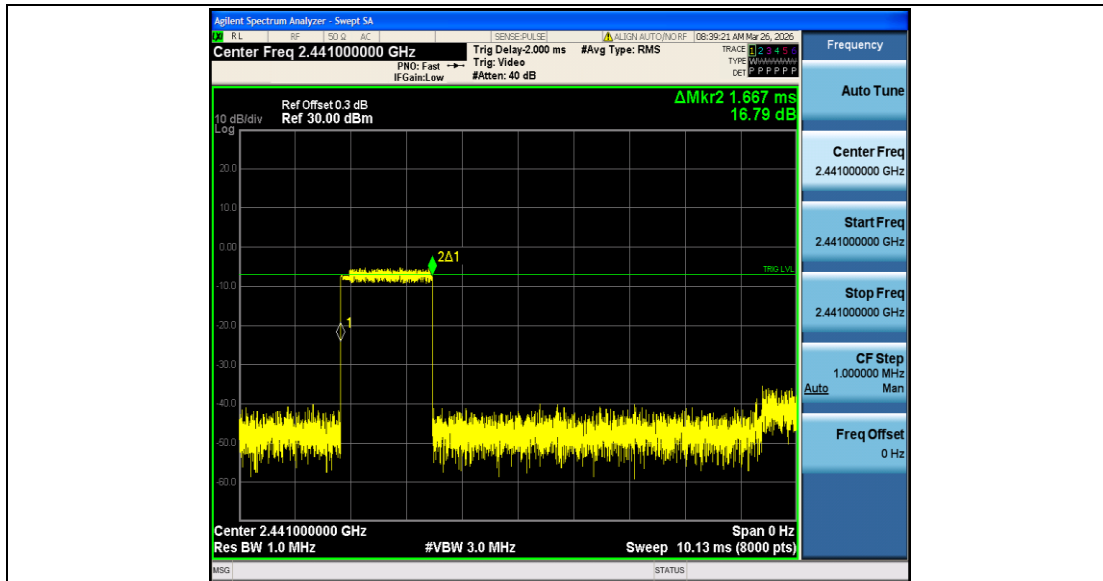




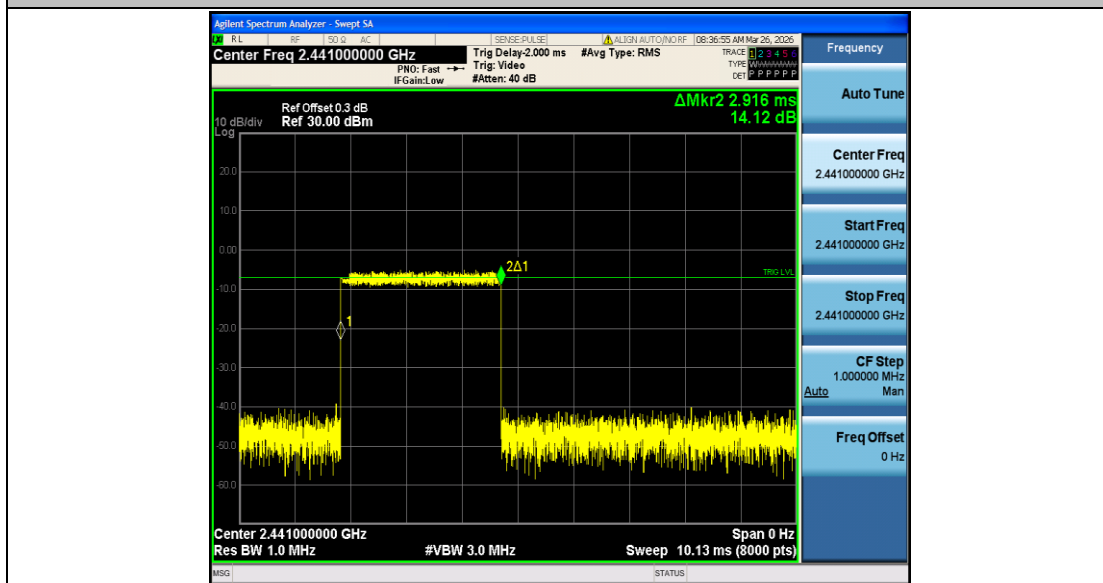
2DH1_Ant1_Hop

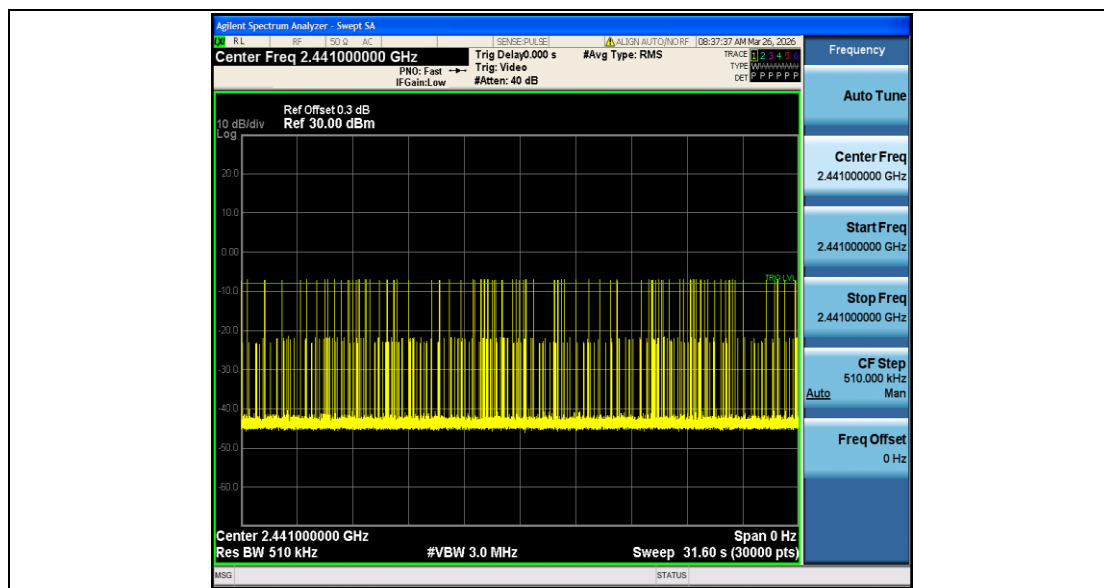


2DH3_Ant1_Hop



2DH5_Ant1_Hop



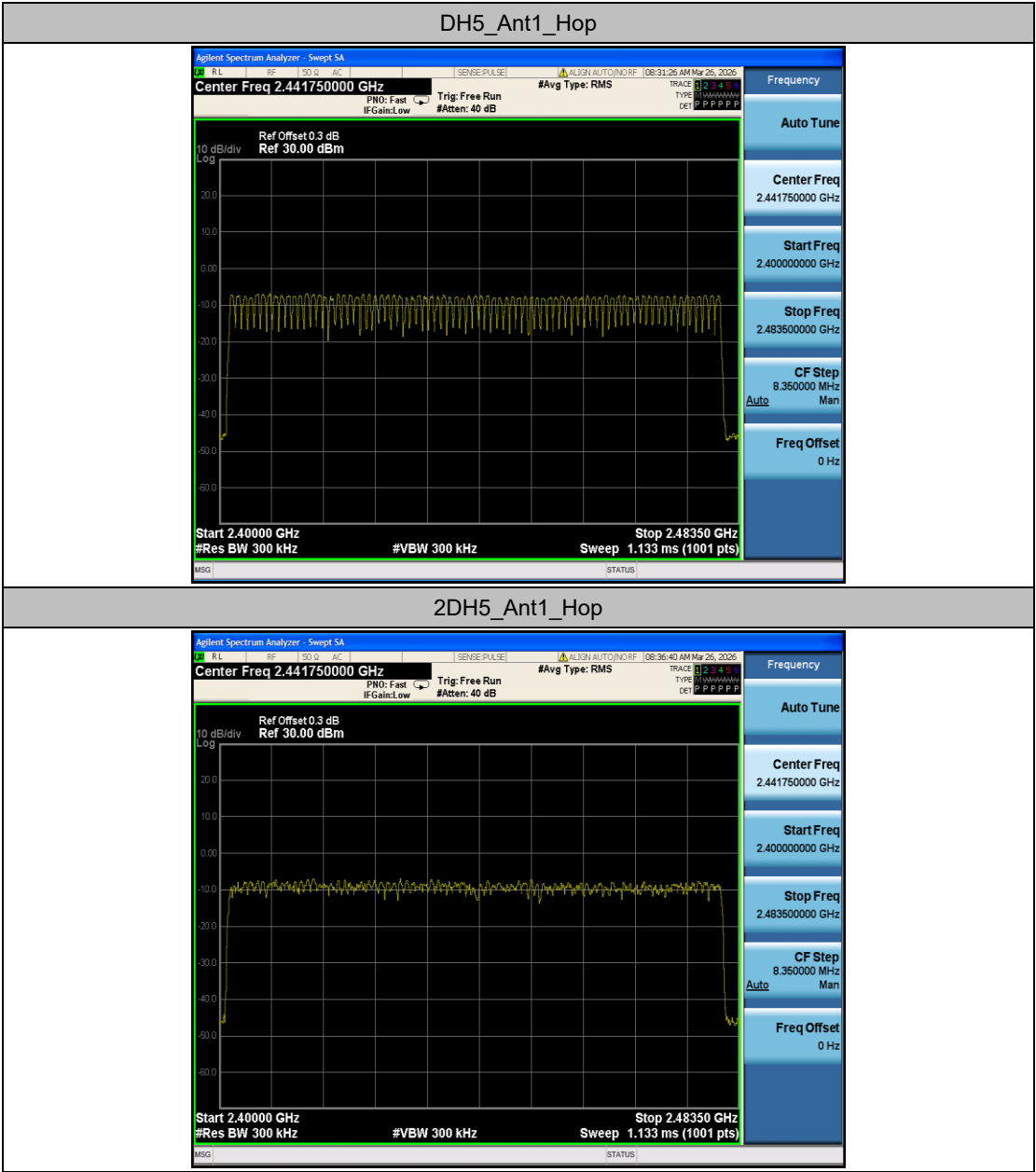


Appendix F: Number of hopping channels

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

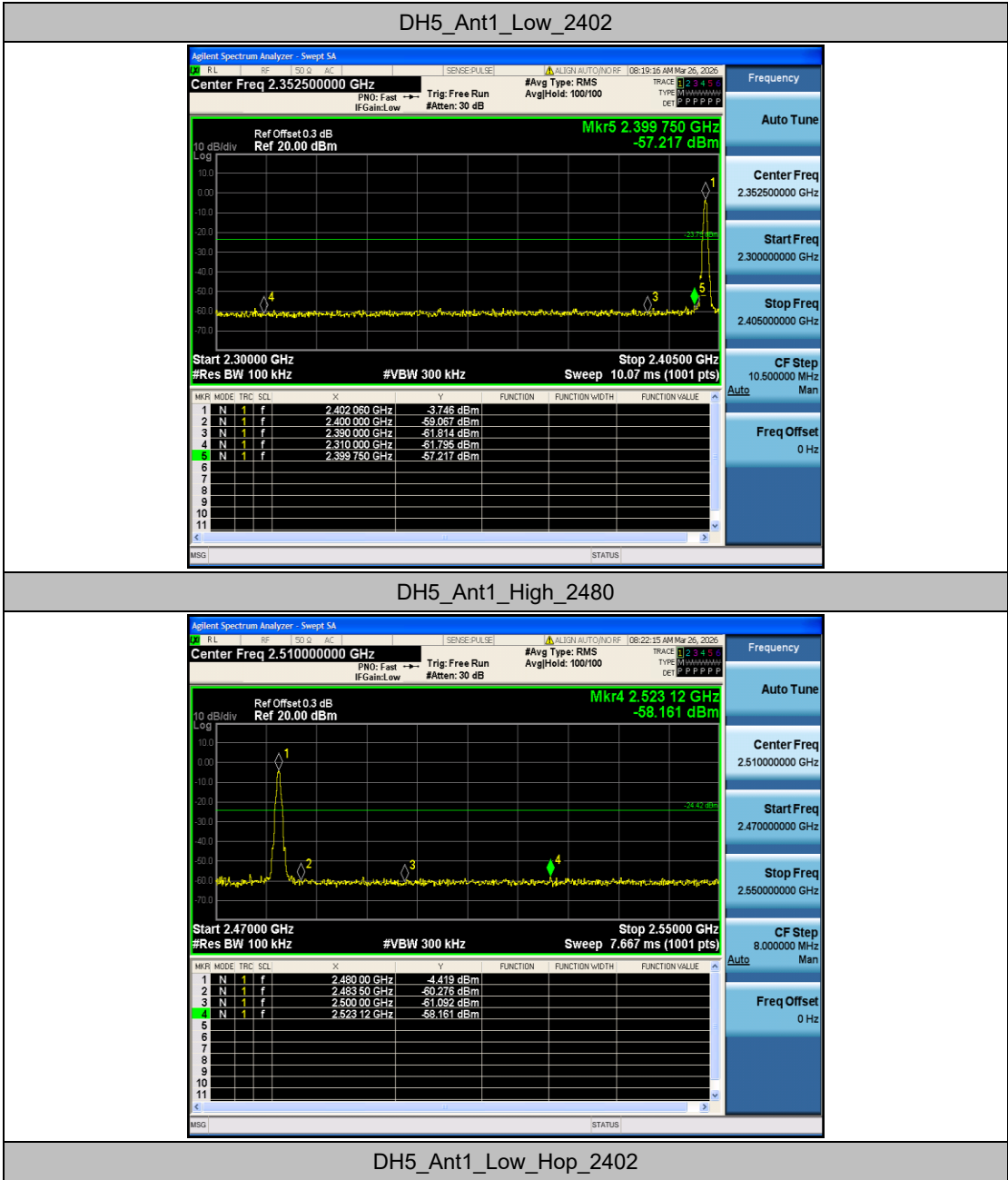


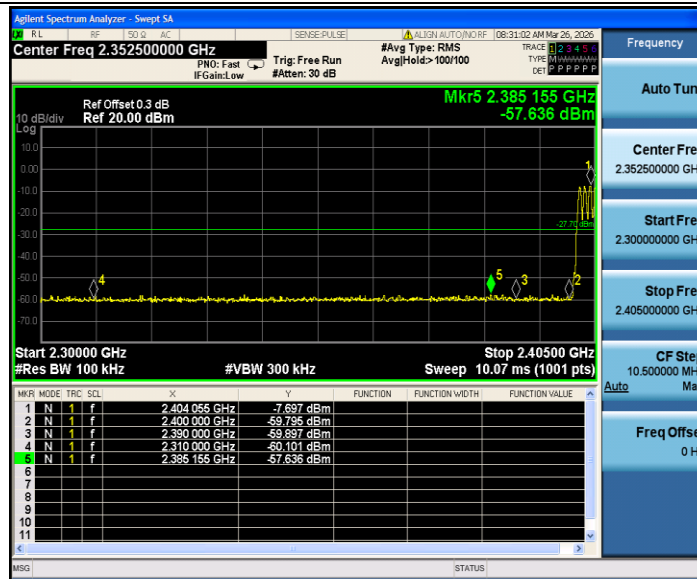
Appendix G: Band edge measurements

Test Result

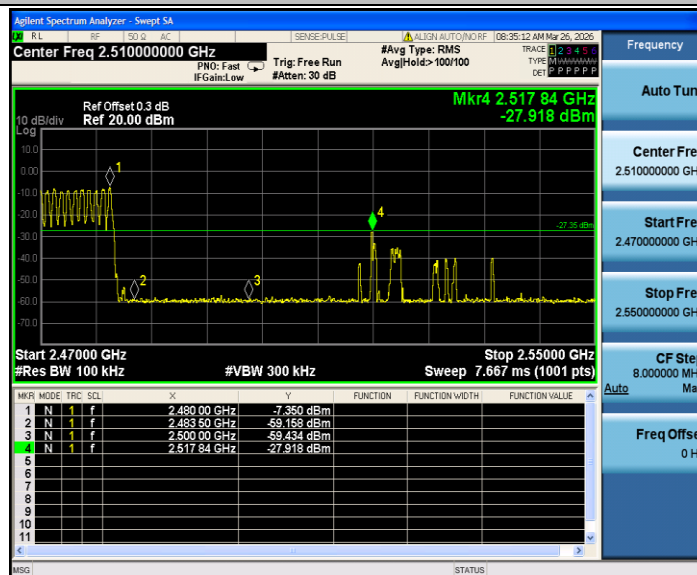
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.75	-57.22	≤-23.75	PASS
		High	2480	-4.42	-58.16	≤-24.42	PASS
		Low	Hop_2402	-7.70	-57.64	≤-27.7	PASS
		High	Hop_2480	-7.35	-27.92	≤-27.35	PASS
2DH5	Ant1	Low	2402	-7.80	-58.82	≤-27.8	PASS
		High	2480	-7.23	-57.71	≤-27.23	PASS
		Low	Hop_2402	-11.70	-57.11	≤-31.7	PASS
		High	Hop_2480	-10.05	-56.93	≤-30.05	PASS

Test Graphs

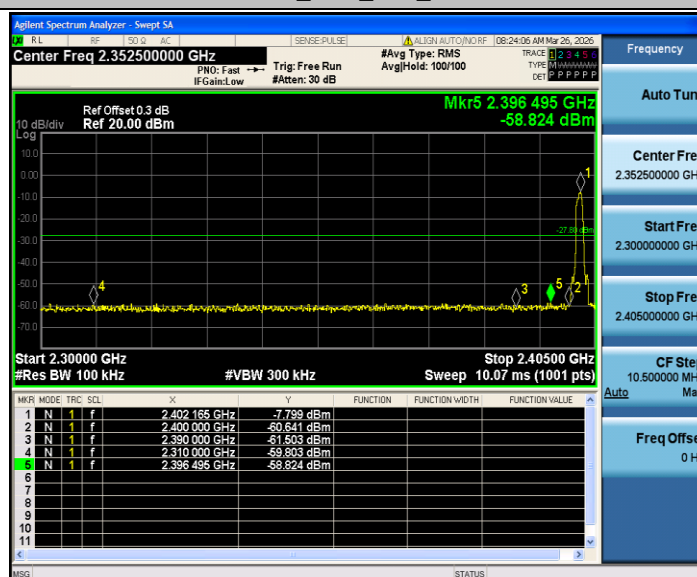




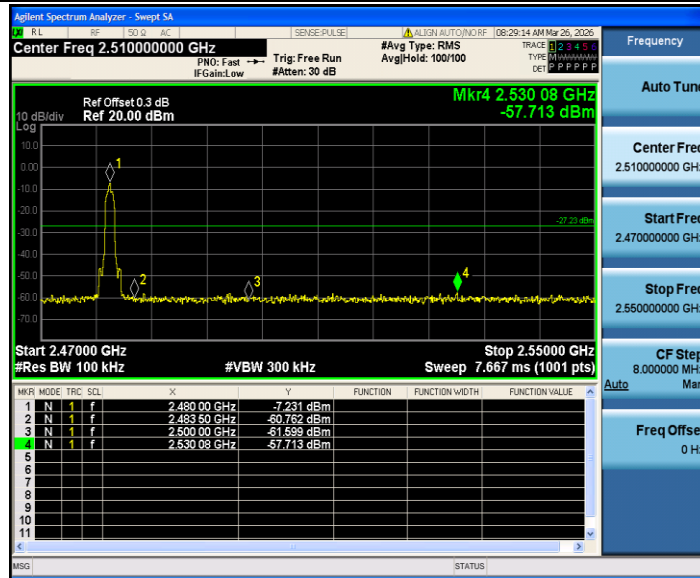
DH5_Ant1_High_Hop_2480



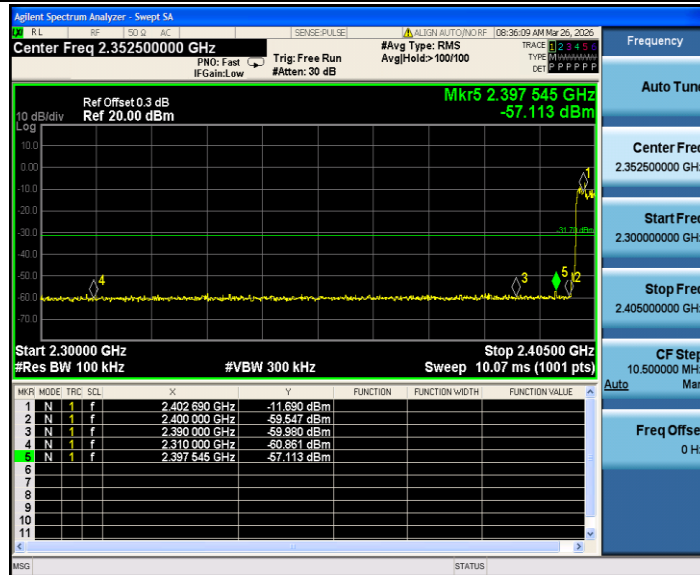
2DH5_Ant1_High_Hop_2480



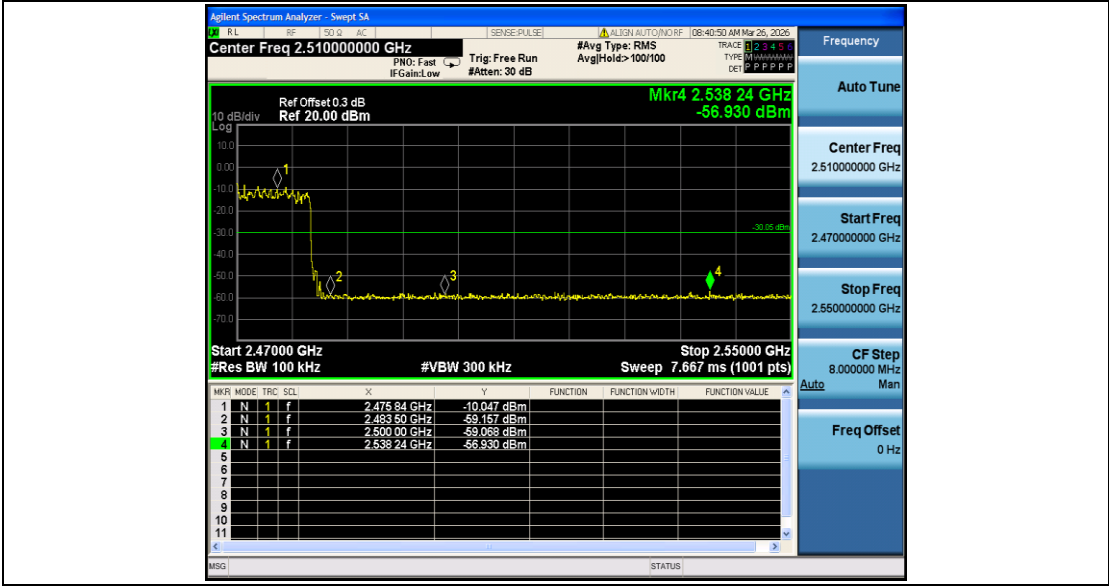
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

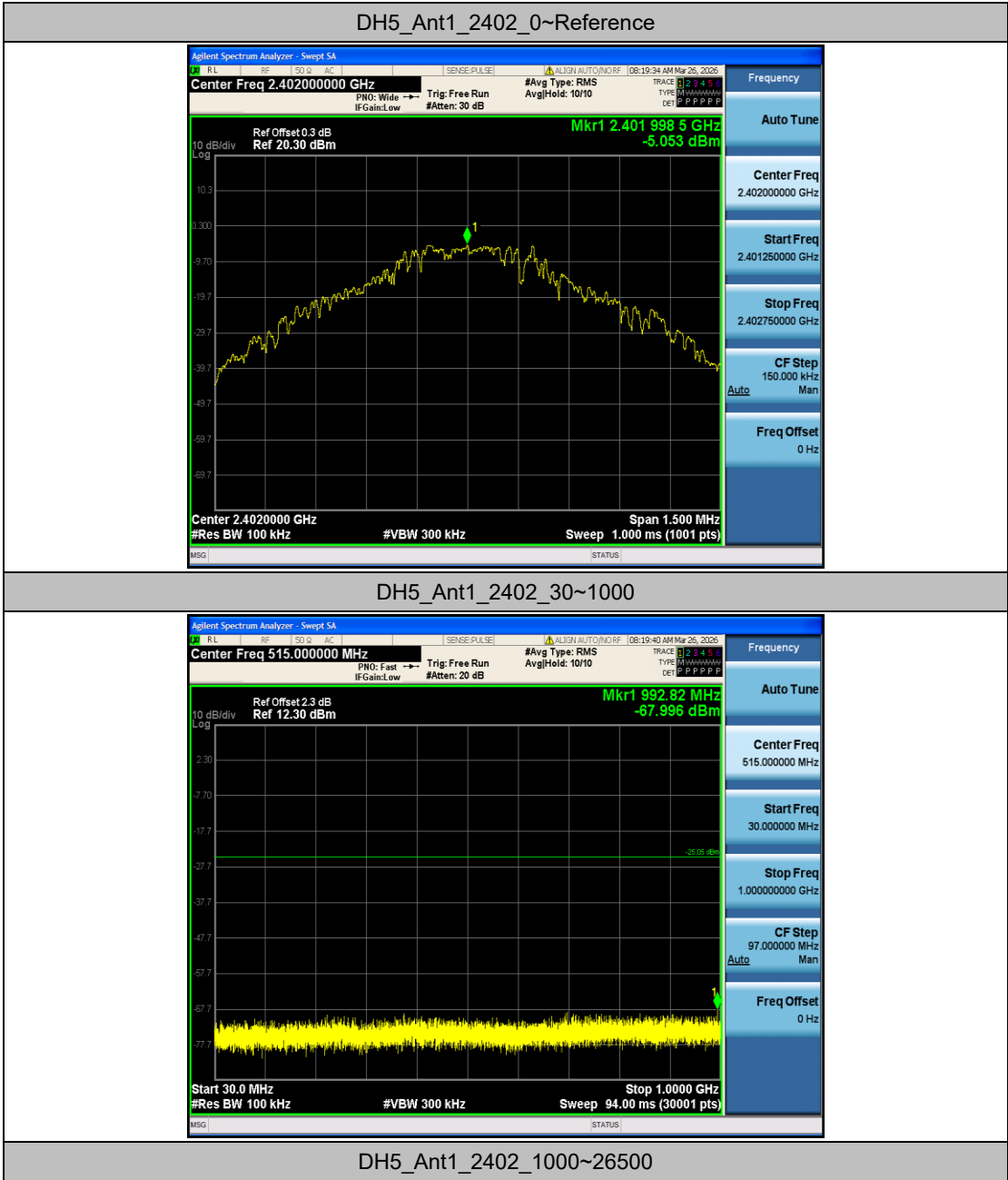


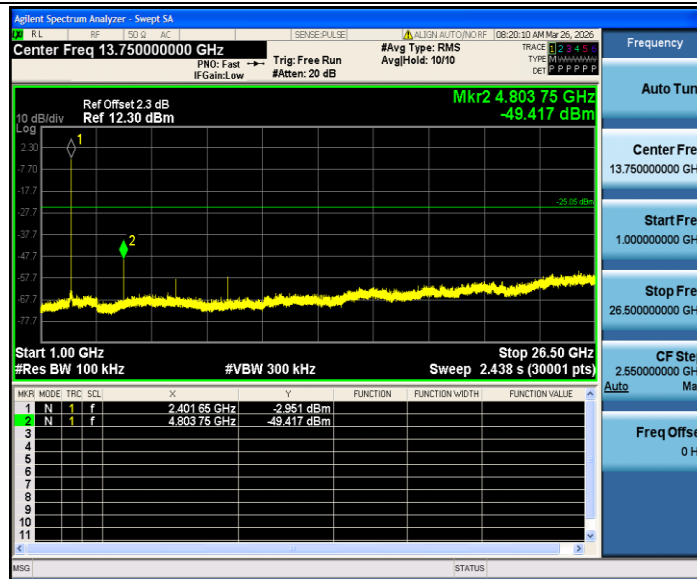
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.05	-5.05	---	PASS
			30~1000	-5.05	-68	≤-25.05	PASS
			1000~26500	-5.05	-49.42	≤-25.05	PASS
		2441	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-68.6	≤-24.38	PASS
			1000~26500	-4.38	-47.36	≤-24.38	PASS
		2480	Reference	-4.94	-4.94	---	PASS
			30~1000	-4.94	-68.33	≤-24.94	PASS
			1000~26500	-4.94	-48.39	≤-24.94	PASS
2DH5	Ant1	2402	Reference	-9.98	-9.98	---	PASS
			30~1000	-9.98	-68.33	≤-29.98	PASS
			1000~26500	-9.98	-54.98	≤-29.98	PASS
		2441	Reference	-9.22	-9.22	---	PASS
			30~1000	-9.22	-68.14	≤-29.22	PASS
			1000~26500	-9.22	-42.19	≤-29.22	PASS
		2480	Reference	-8.71	-8.71	---	PASS
			30~1000	-8.71	-67.2	≤-28.71	PASS
			1000~26500	-8.71	-54.83	≤-28.71	PASS

Test Graphs

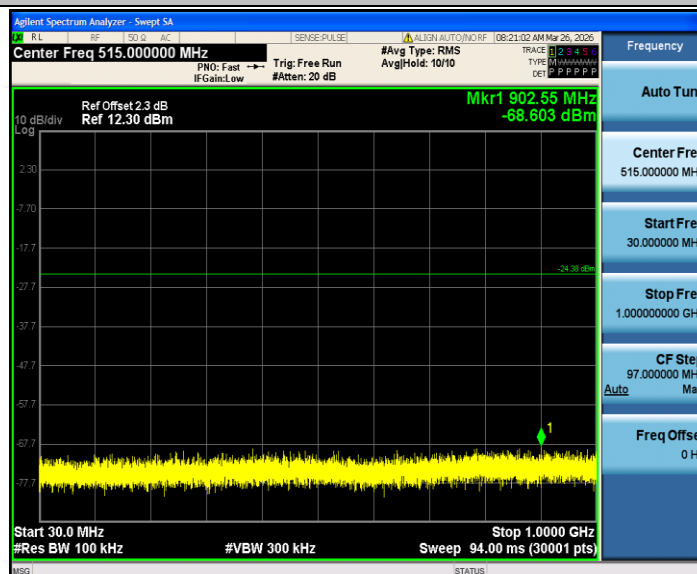




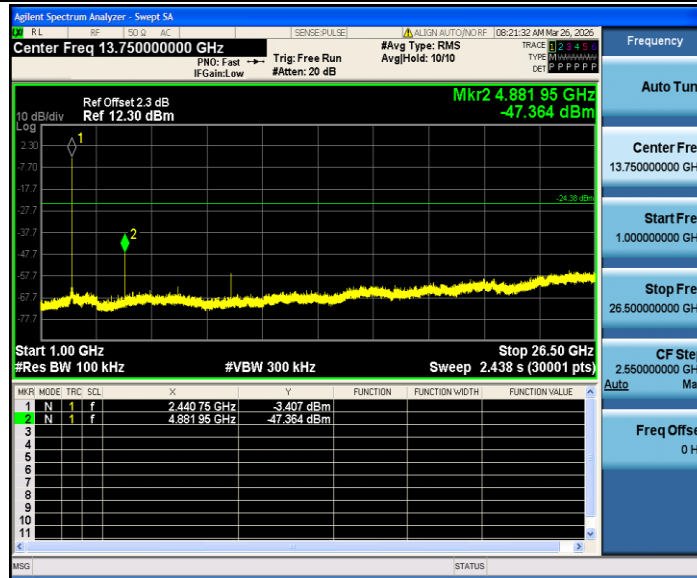
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



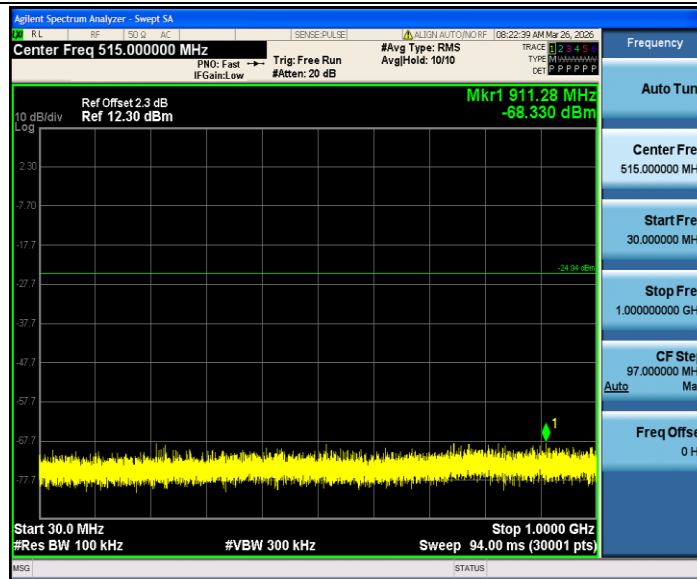
DH5_Ant1_2441_1000~26500



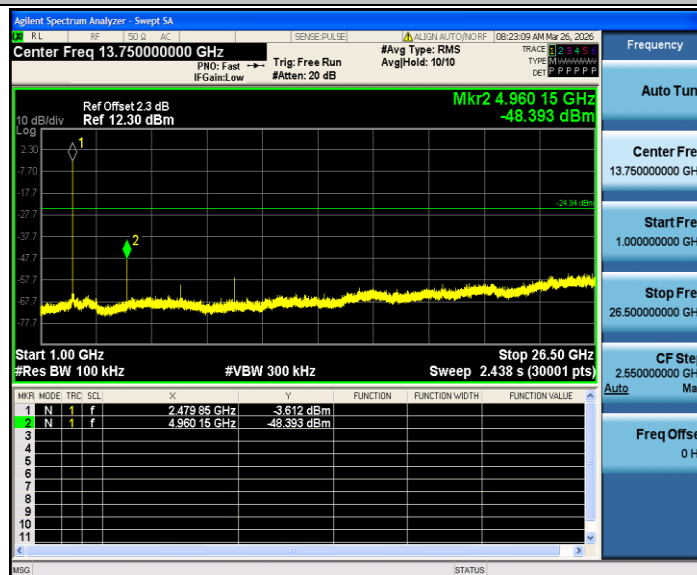
DH5_Ant1_2480_0~Reference



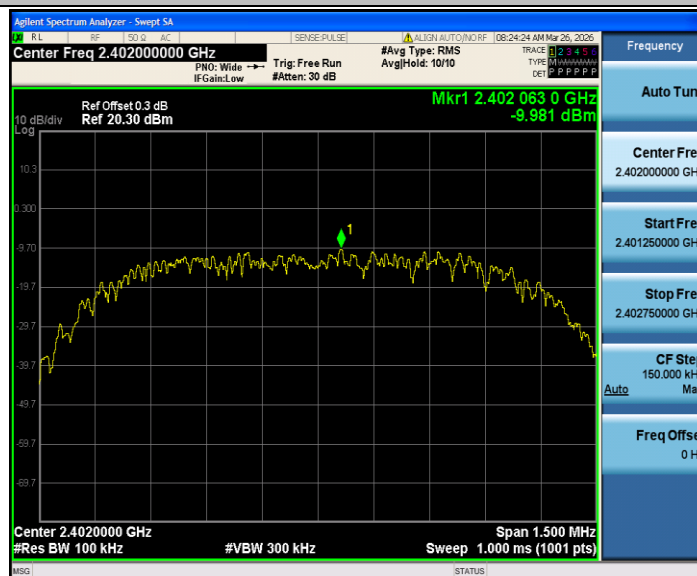
DH5_Ant1_2480_30~1000



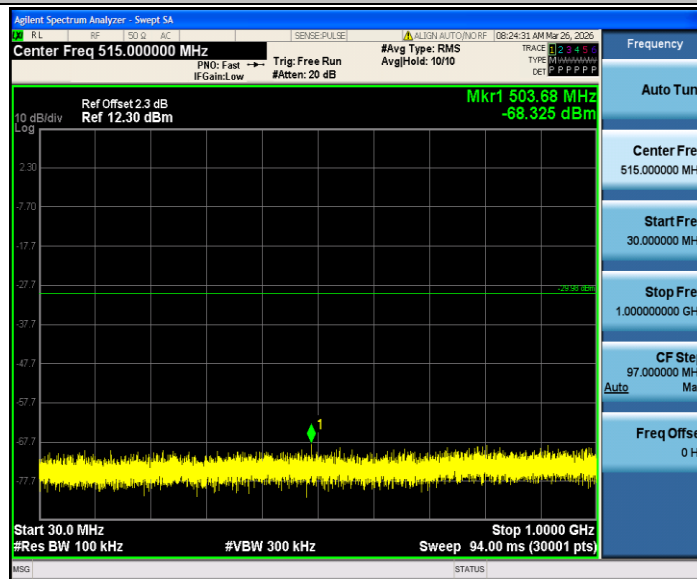
DH5_Ant1_2480_1000~26500



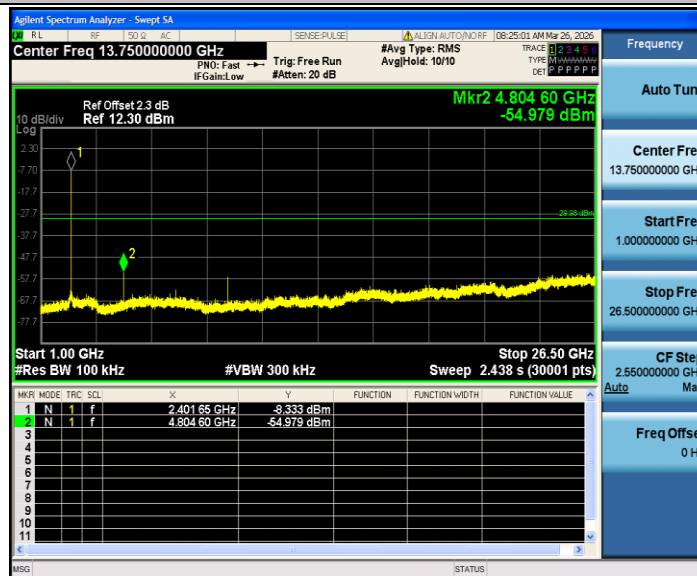
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



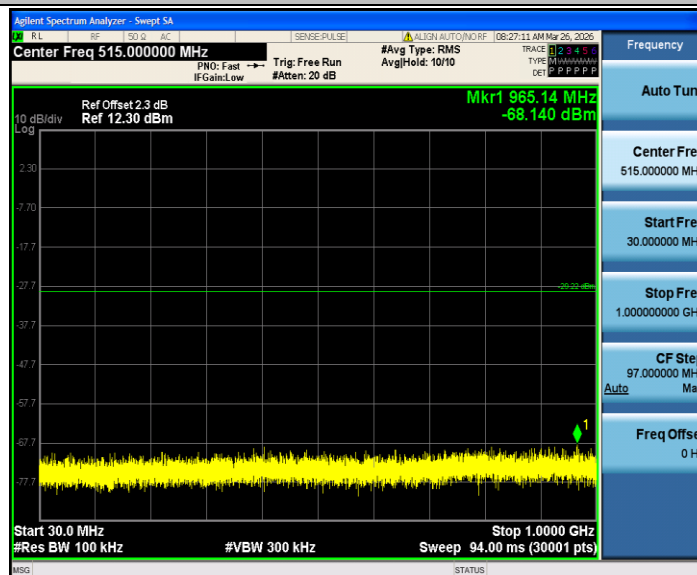
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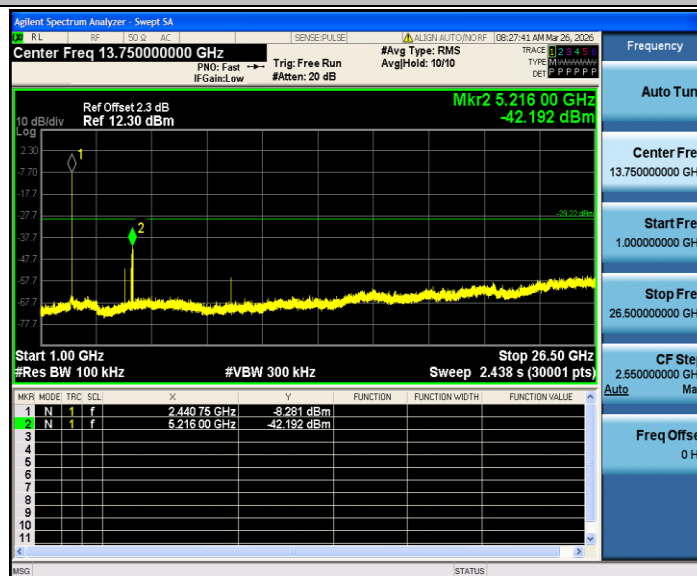
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



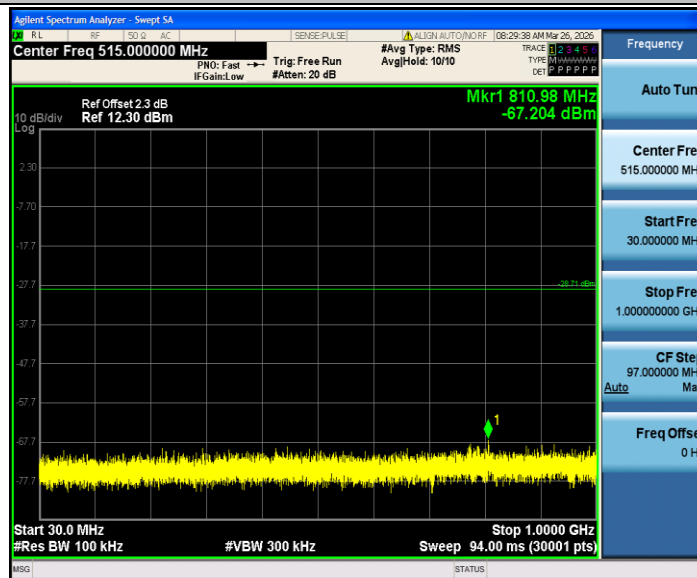
2DH5_Ant1_2441_1000~26500



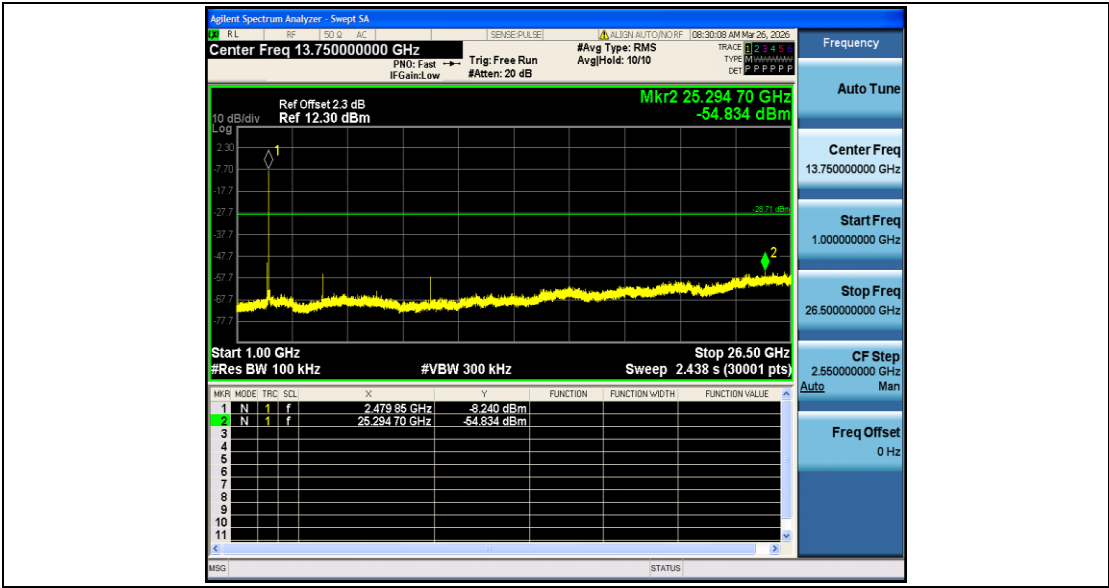
2DH5_Ant1_2480_0~Reference



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	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---