

FCC Appendix RF Test Data for BT

FCC ID : 2A5XM-YS-802

Company : Shenzhen Youshida High Technology Co.,Ltd

EUT : Karaoke Bluetooth Speaker

Model Number : YS-802

Report No. : CTA26082100201

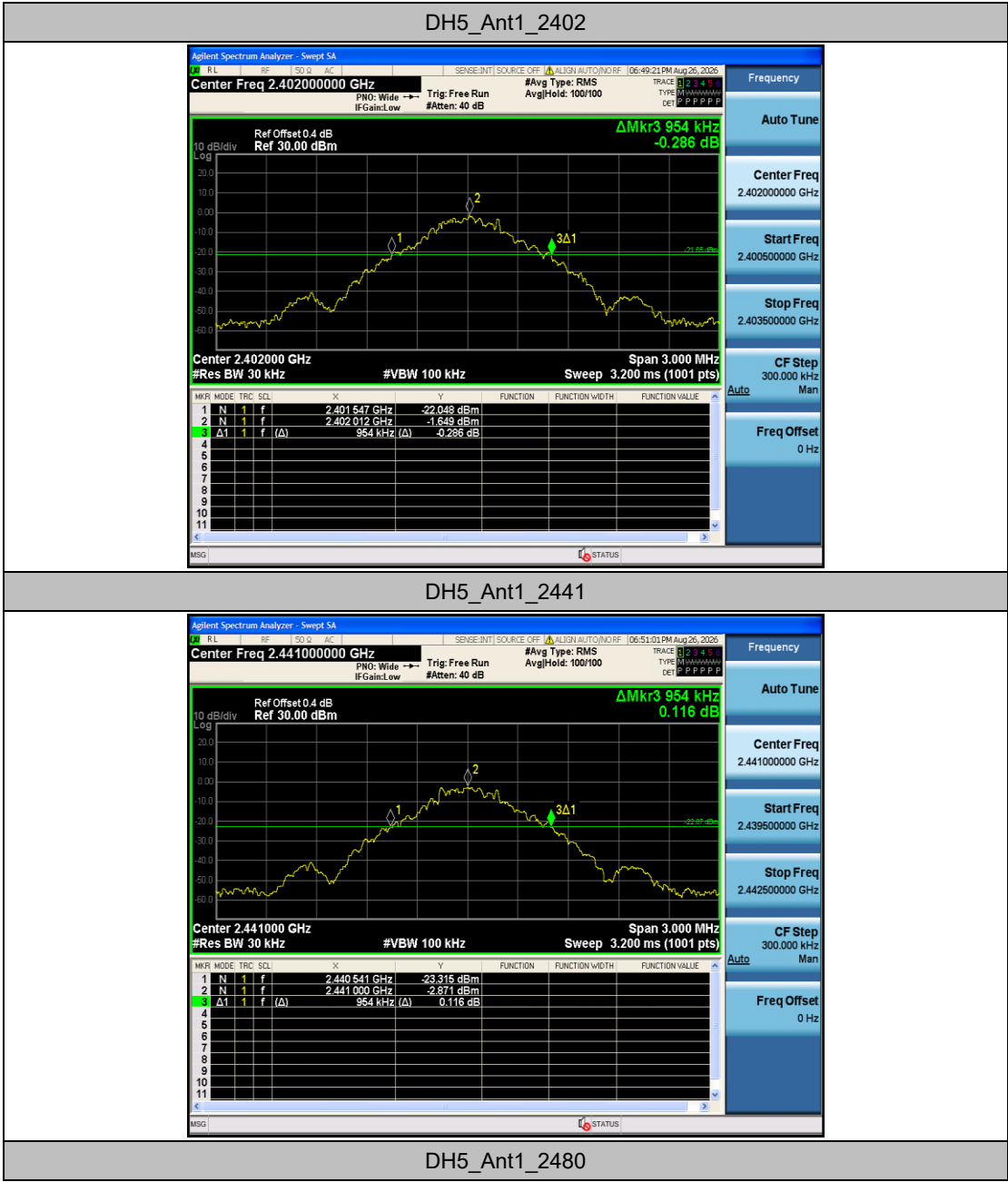
Reviewed By : Eric Wang

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	0.954	2440.541	2441.495	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.317	2401.349	2402.666	---	---
		2441	1.338	2440.337	2441.675	---	---
		2480	1.332	2479.340	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

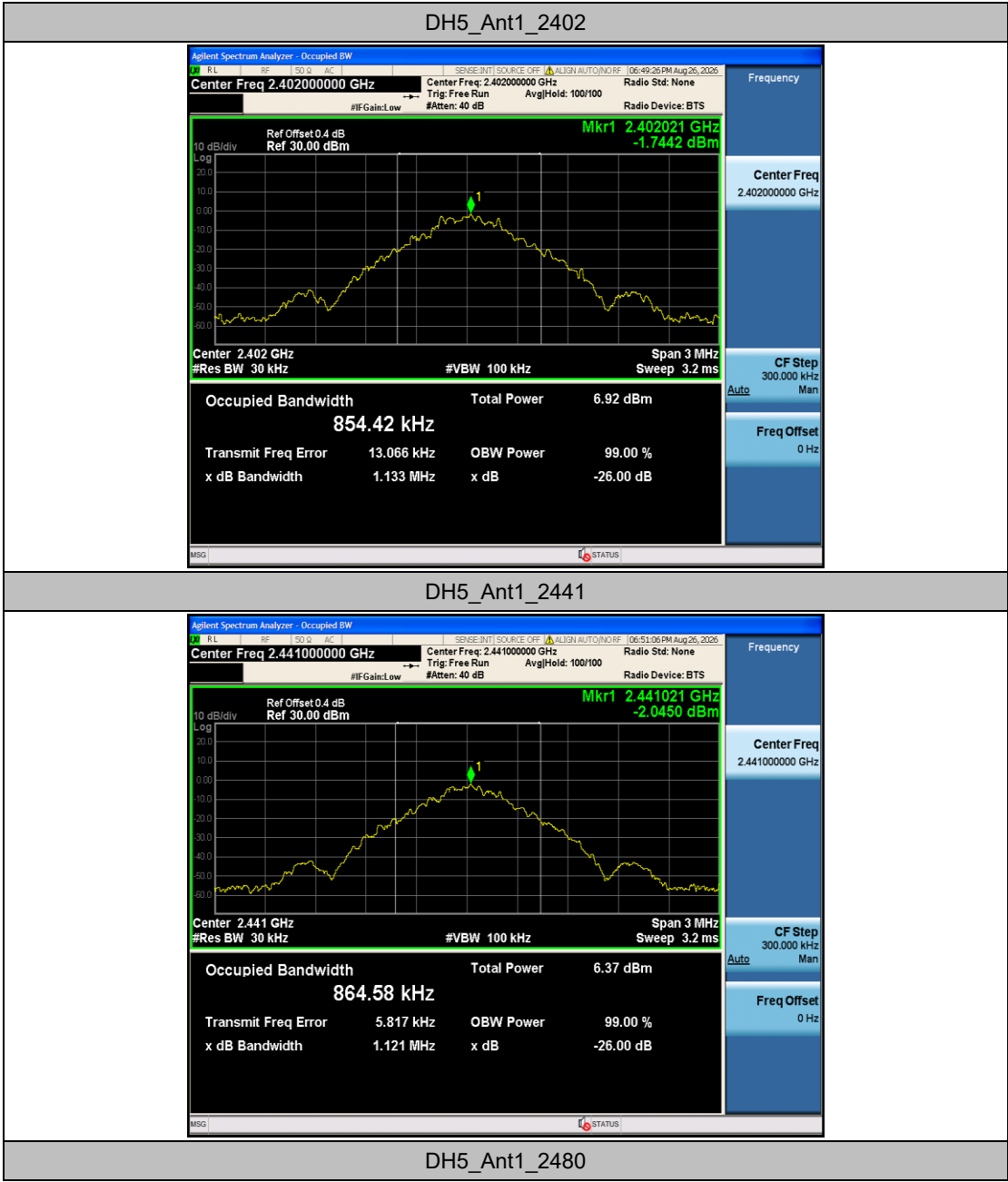


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85442	2401.5859	2402.4403	---	---
		2441	0.86458	2440.5735	2441.4381	---	---
		2480	0.85791	2479.5779	2480.4358	---	---
2DH5	Ant1	2402	1.1916	2401.4160	2402.6076	---	---
		2441	1.1956	2440.4140	2441.6096	---	---
		2480	1.1910	2479.4145	2480.6055	---	---

Test Graphs





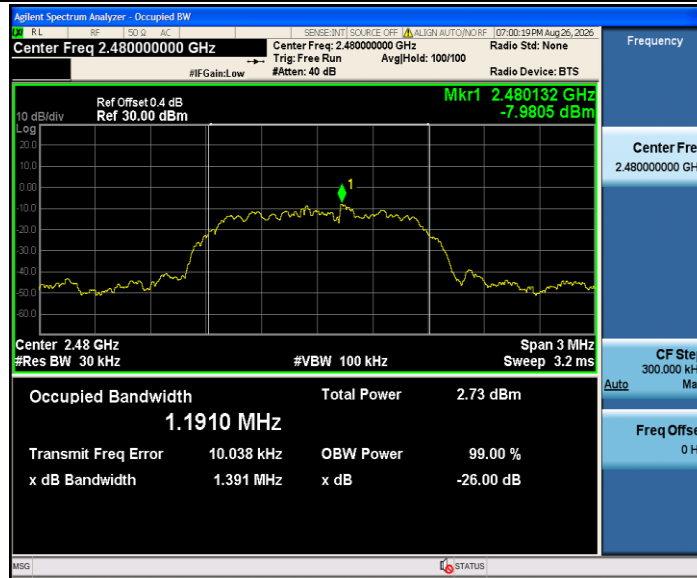
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

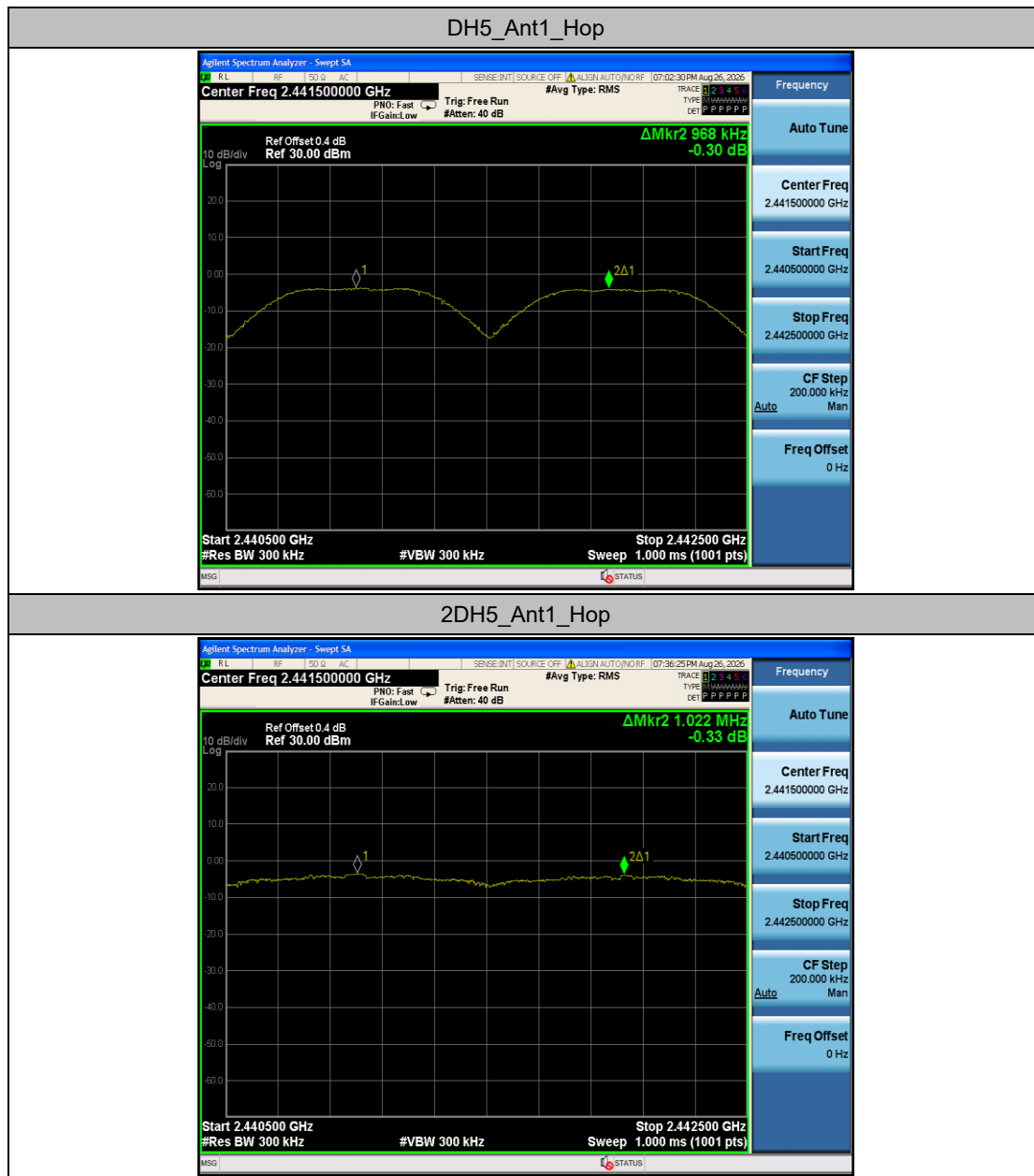
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.12	≤20.97	PASS
		2441	0.00	≤20.97	PASS
		2480	-0.23	≤20.97	PASS
2DH5	Ant1	2402	-0.76	≤20.97	PASS
		2441	-0.84	≤20.97	PASS
		2480	-1.14	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.968	≥ 0.954	PASS
2DH5	Ant1	Hop	1.022	≥ 0.892	PASS

Test Graphs

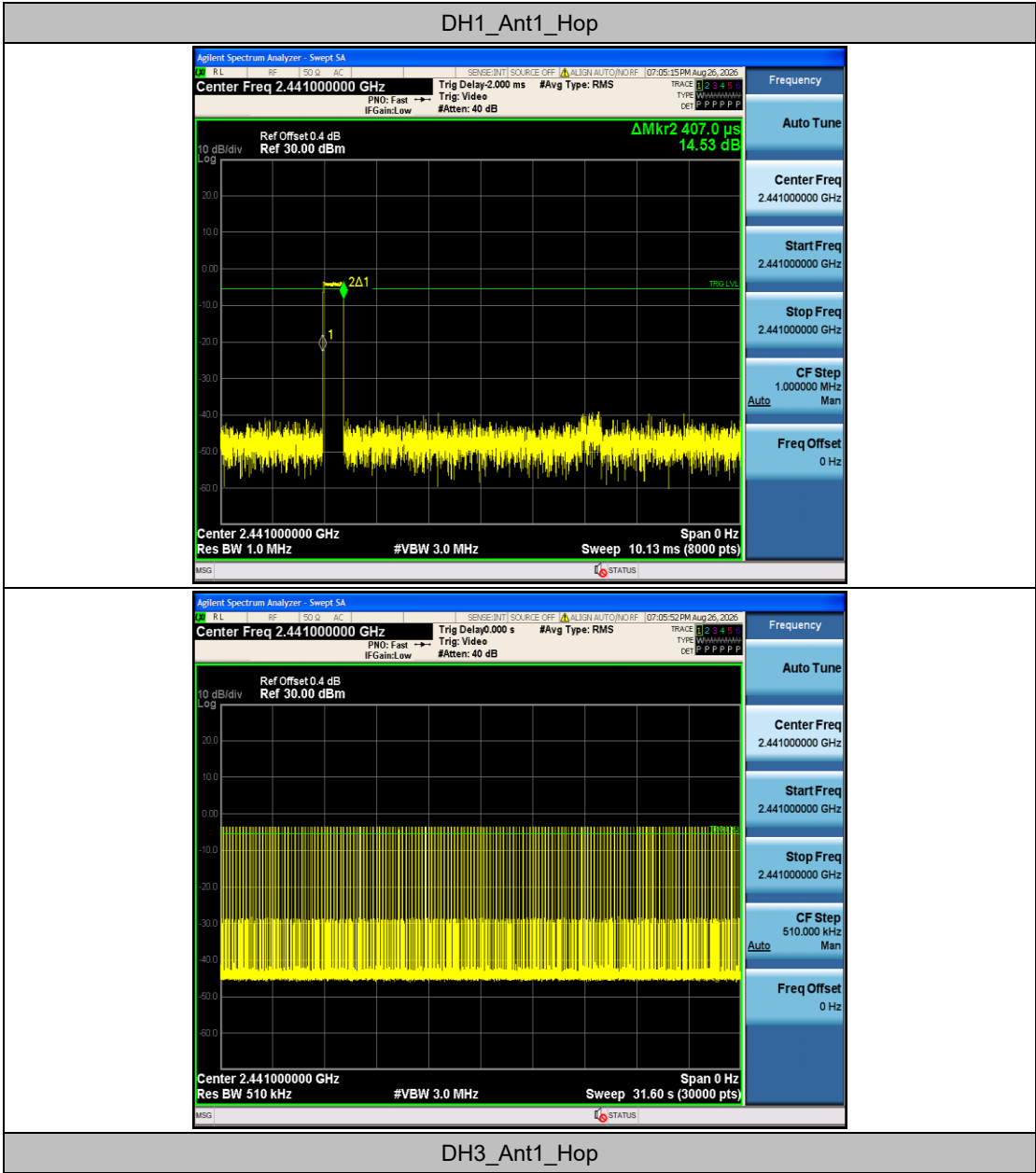


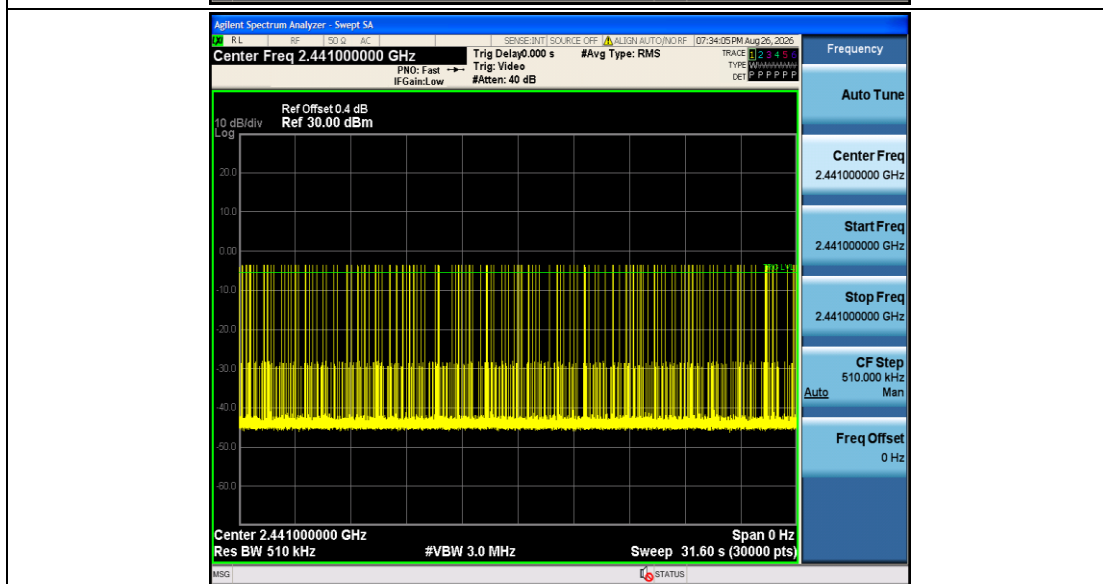
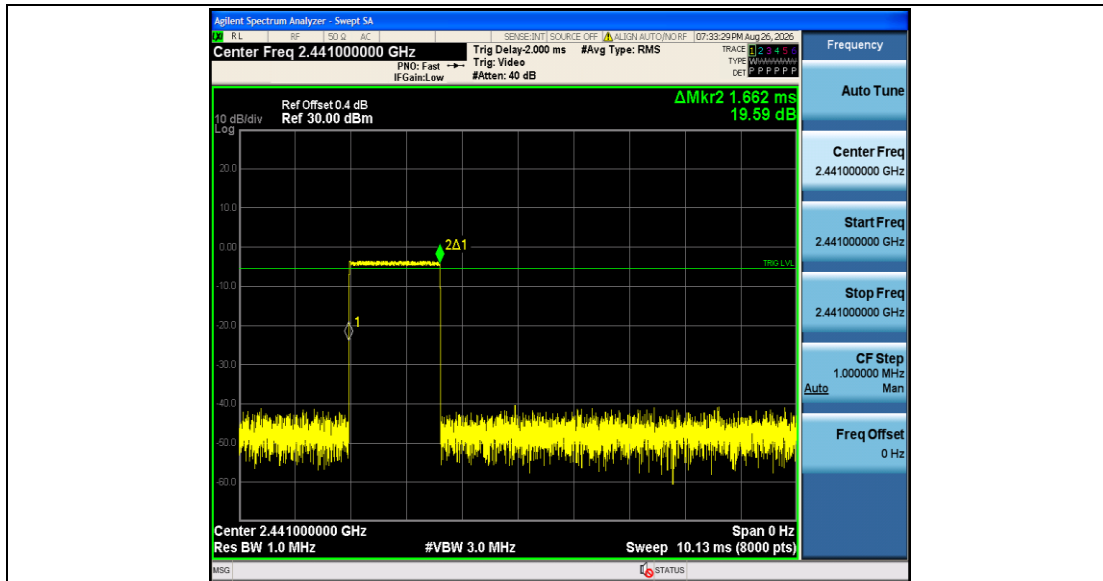
Appendix E: Time of occupancy

Test Result

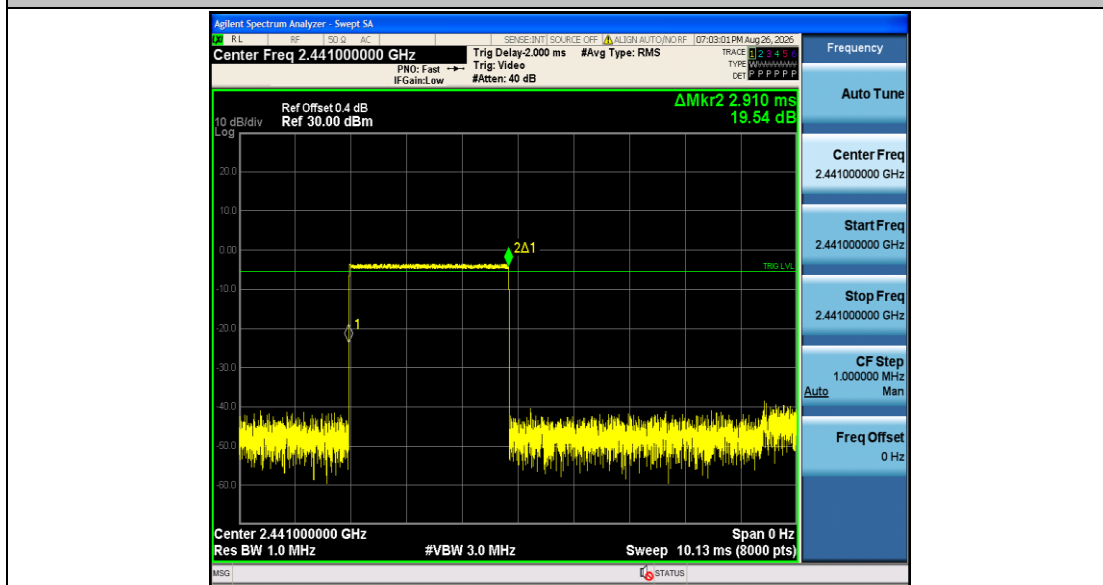
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	313	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.662	149	0.248	≤0.4	PASS
DH5	Ant1	Hop	2.910	111	0.323	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	155	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.911	111	0.323	≤0.4	PASS

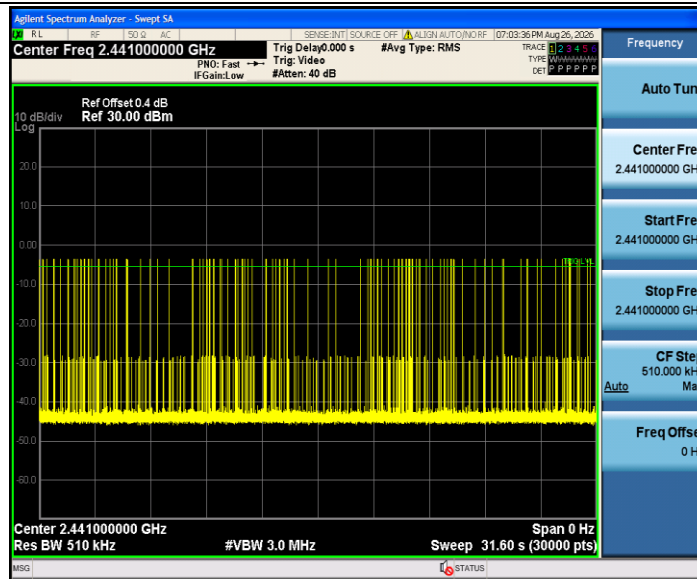
Test Graphs



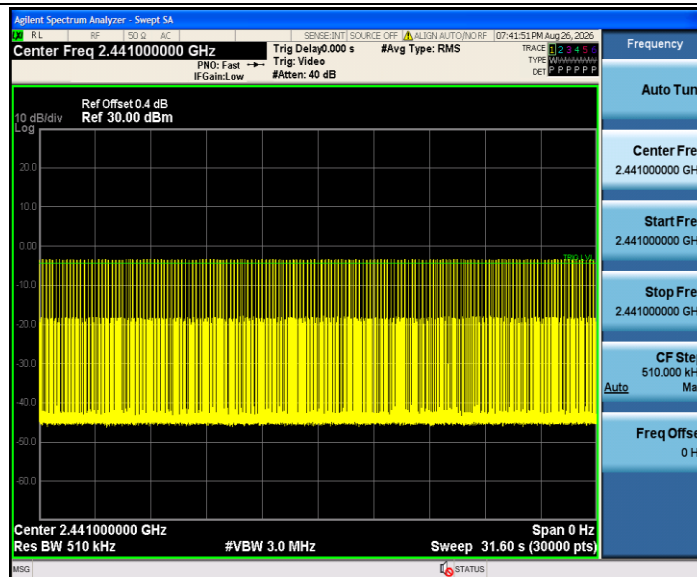
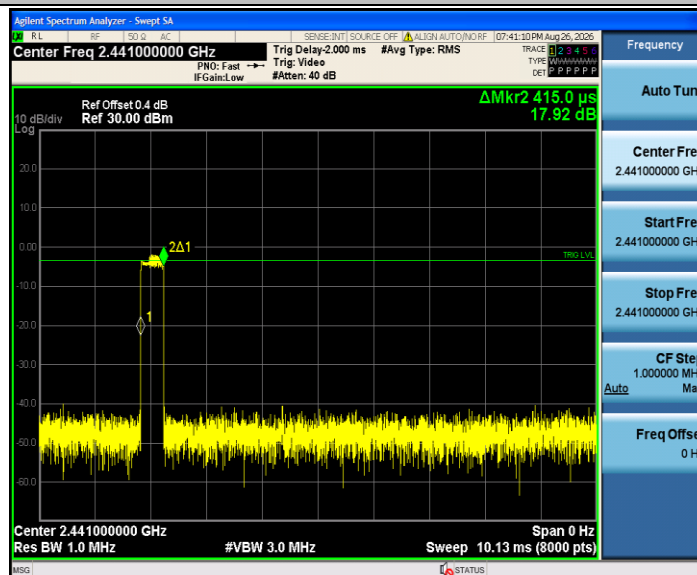


DH5_Ant1_Hop

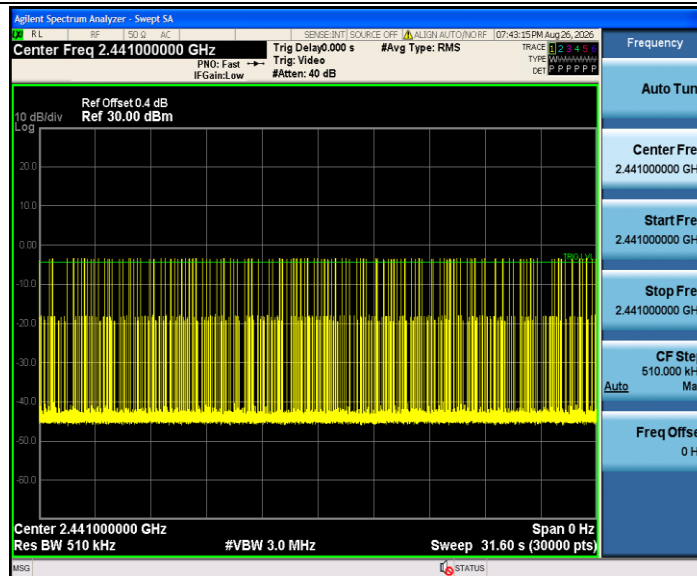
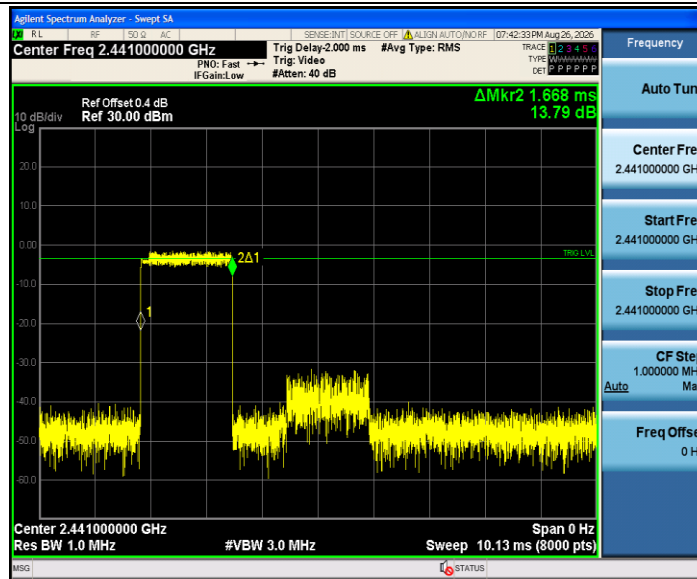




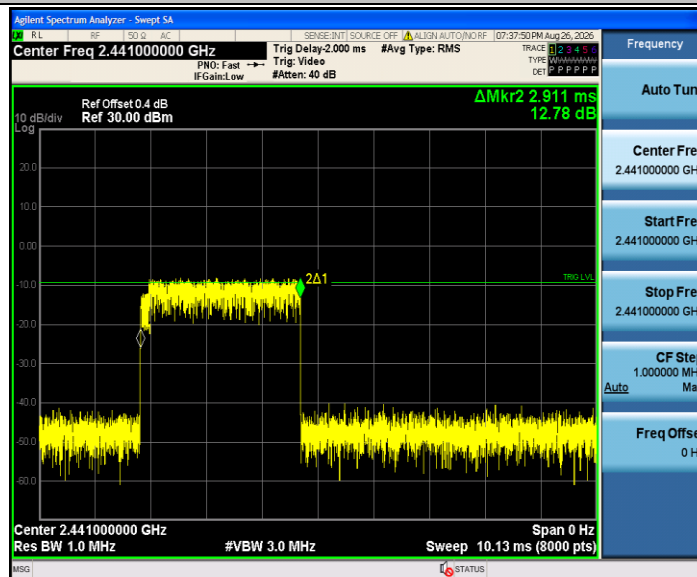
2DH1_Ant1_Hop

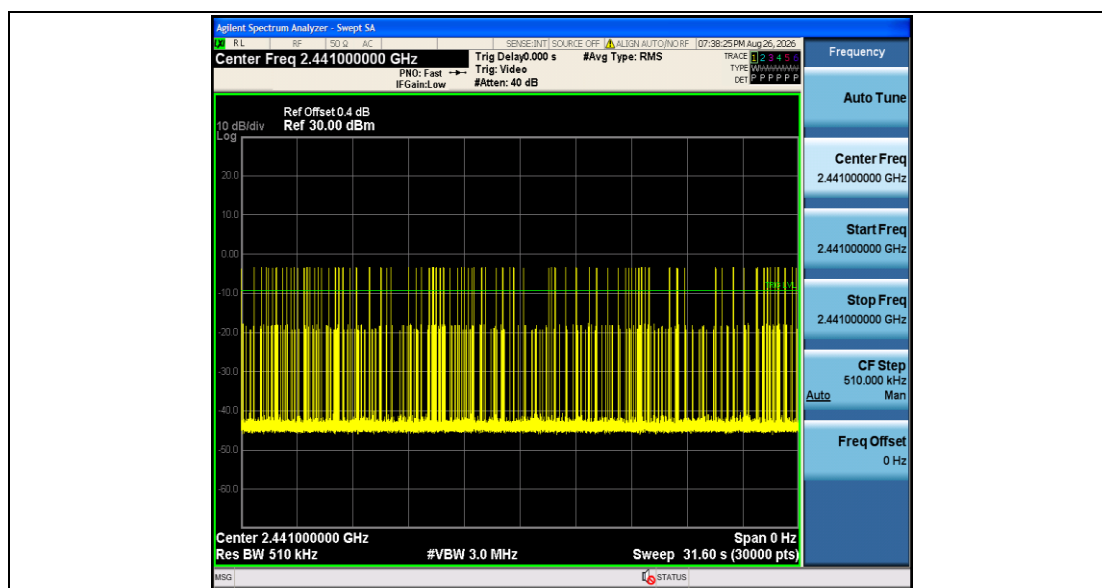


2DH3_Ant1_Hop



2DH5_Ant1_Hop



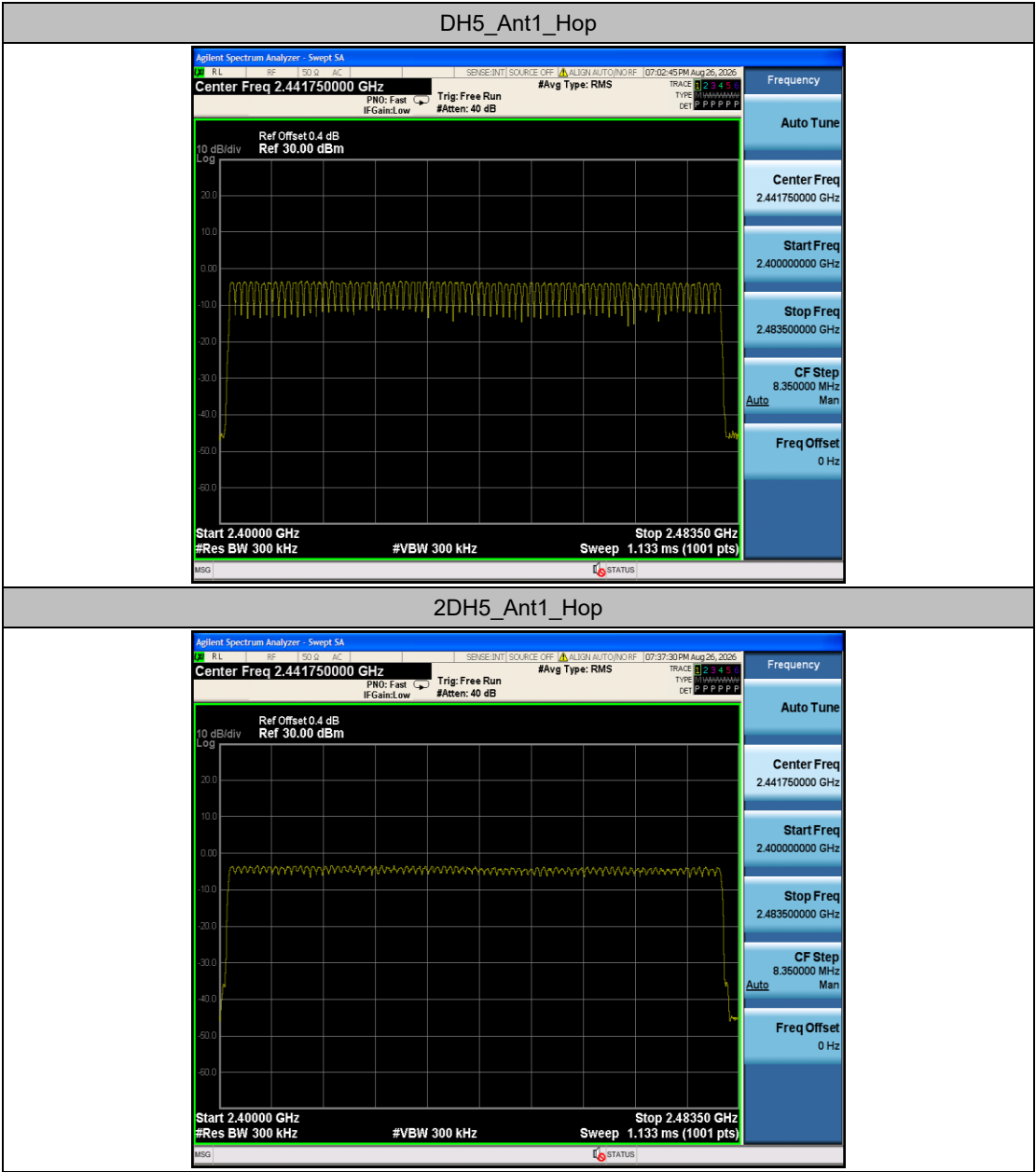


Appendix F: Number of hopping channels

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

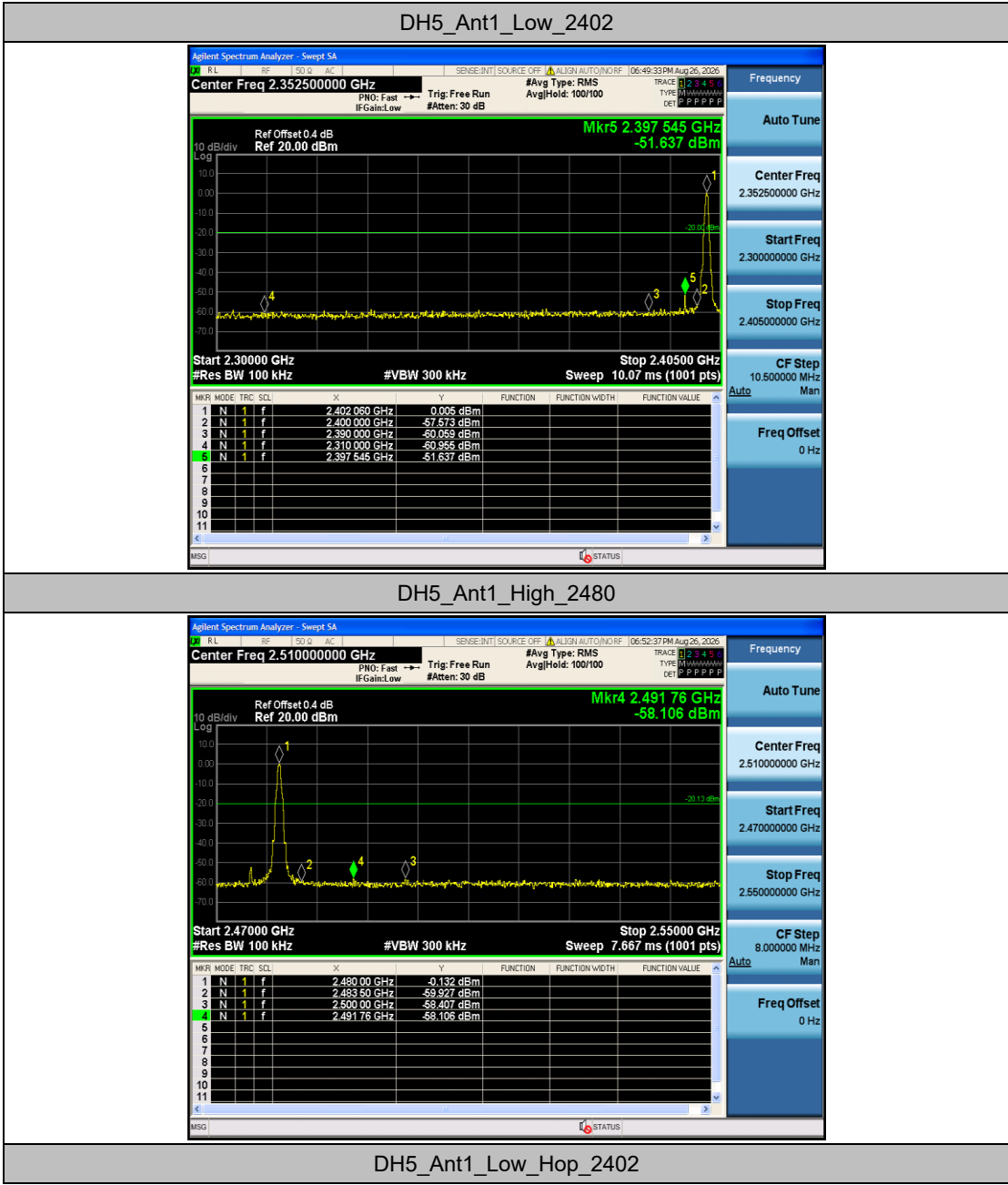


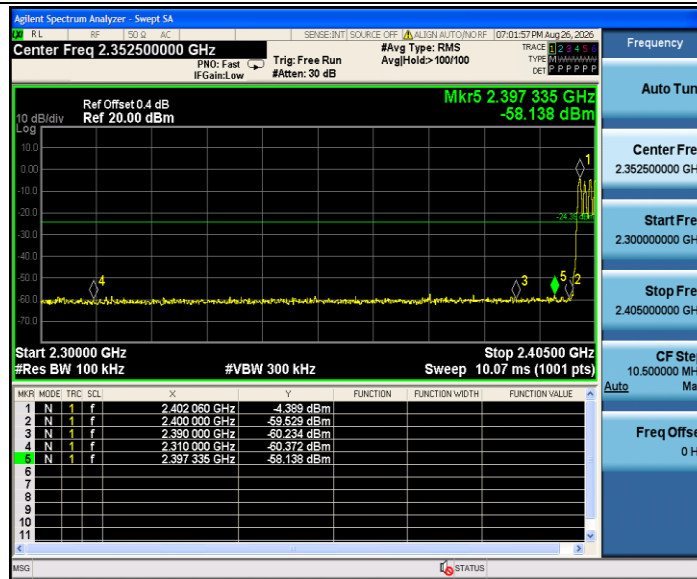
Appendix G: Band edge measurements

Test Result

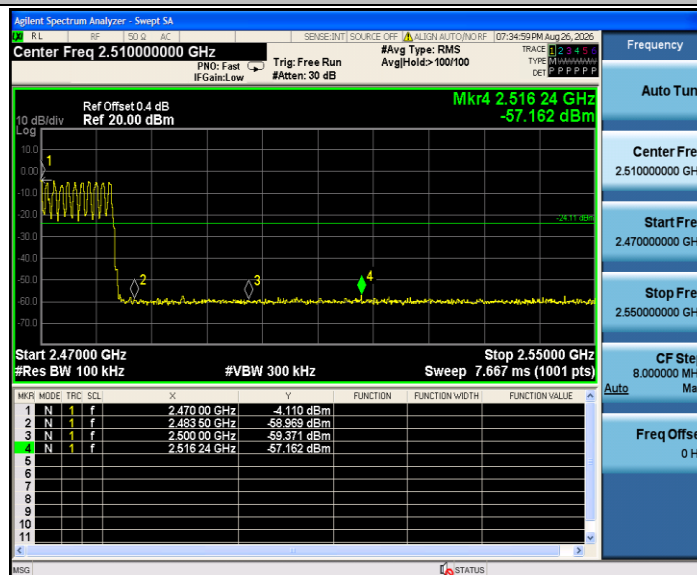
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.01	-51.64	≤-20	PASS
		High	2480	-0.13	-58.11	≤-20.13	PASS
		Low	Hop_2402	-4.39	-58.14	≤-24.39	PASS
		High	Hop_2480	-4.11	-57.16	≤-24.11	PASS
2DH5	Ant1	Low	2402	-3.98	-57.4	≤-23.98	PASS
		High	2480	-3.99	-57.57	≤-23.99	PASS
		Low	Hop_2402	-8.53	-57.88	≤-28.53	PASS
		High	Hop_2480	-4.96	-57.81	≤-24.96	PASS

Test Graphs

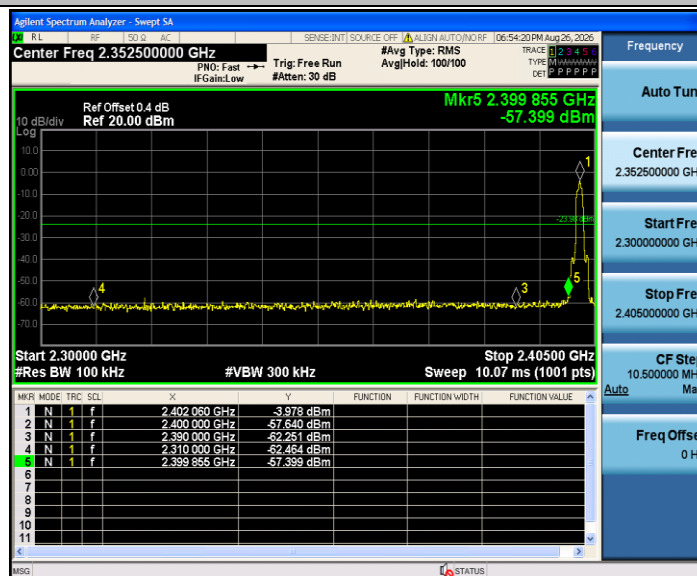




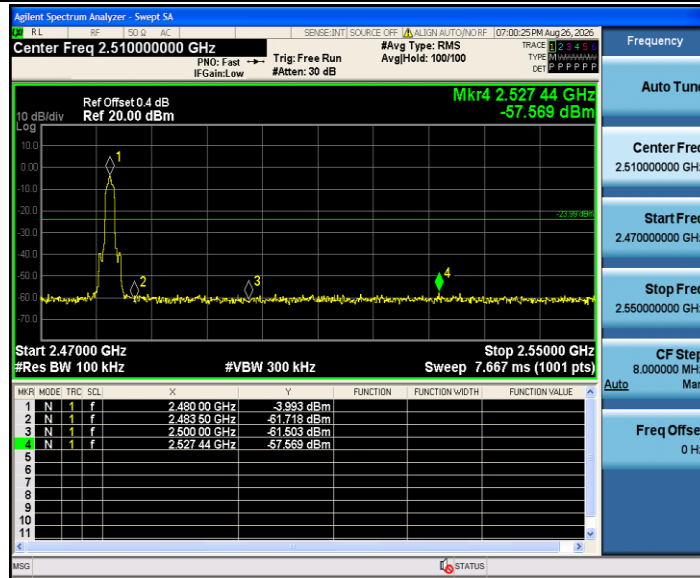
DH5_Ant1_High_Hop_2480



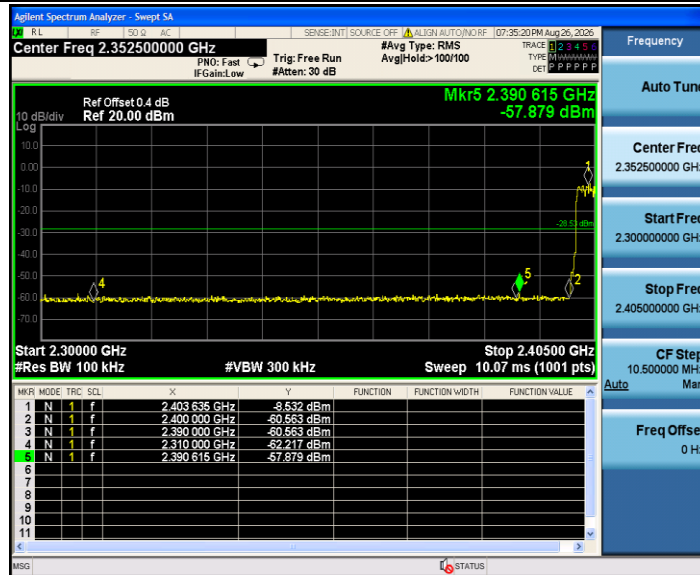
2DH5_Ant1_Low_2402



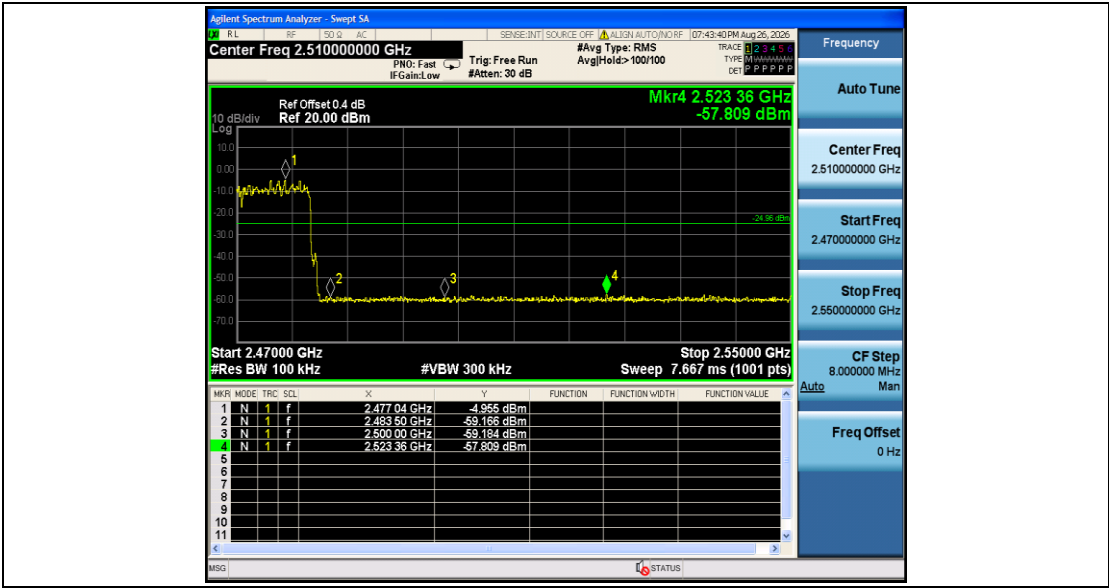
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

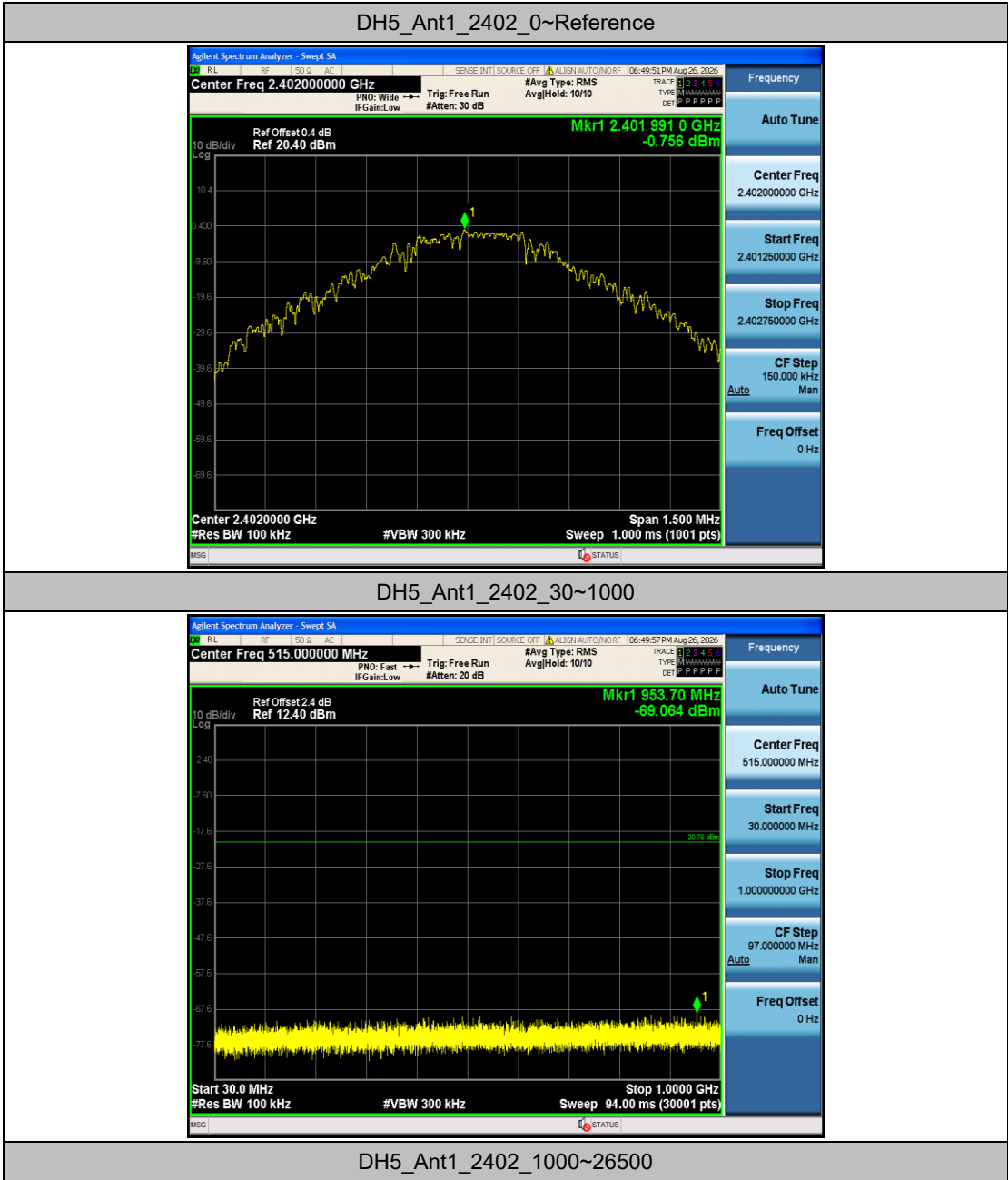


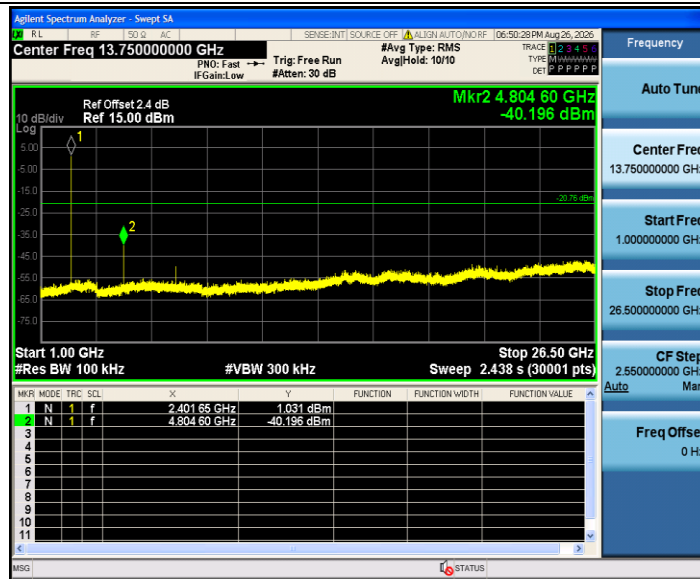
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-69.06	≤-20.76	PASS
			1000~26500	-0.76	-40.2	≤-20.76	PASS
		2441	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-69.04	≤-20.51	PASS
			1000~26500	-0.51	-42.84	≤-20.51	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-69.13	≤-21.11	PASS
			1000~26500	-1.11	-42.58	≤-21.11	PASS
2DH5	Ant1	2402	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-69.1	≤-24.85	PASS
			1000~26500	-4.85	-46.12	≤-24.85	PASS
		2441	Reference	-7.23	-7.23	---	PASS
			30~1000	-7.23	-68.92	≤-27.23	PASS
			1000~26500	-7.23	-46.66	≤-27.23	PASS
		2480	Reference	-7.20	-7.20	---	PASS
			30~1000	-7.20	-68.12	≤-27.2	PASS
			1000~26500	-7.20	-46.34	≤-27.2	PASS

Test Graphs

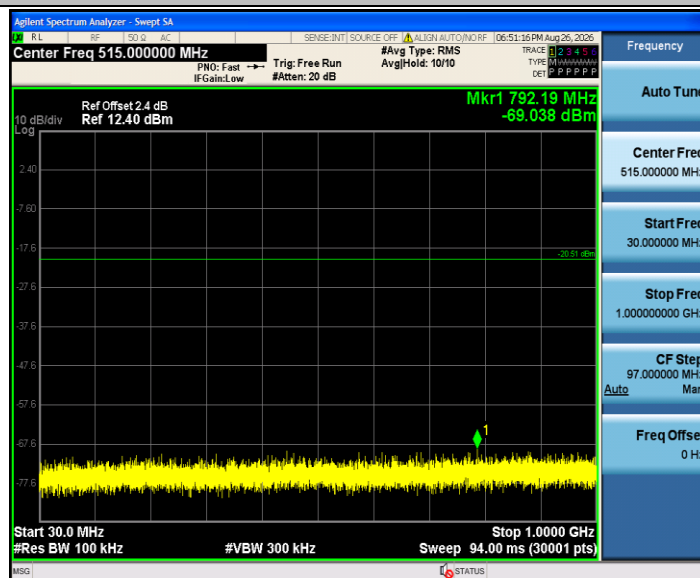




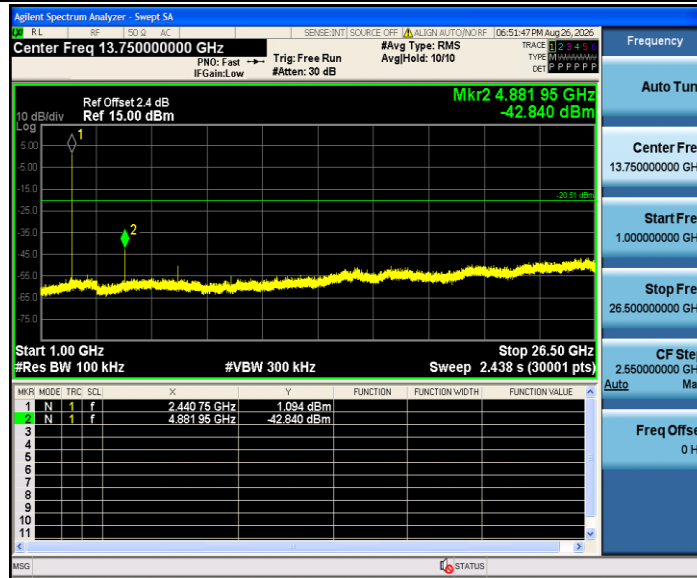
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



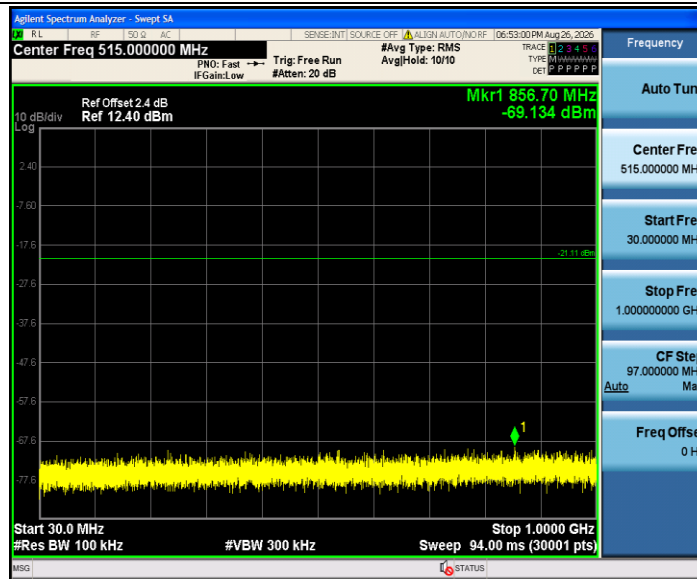
DH5_Ant1_2441_1000~26500



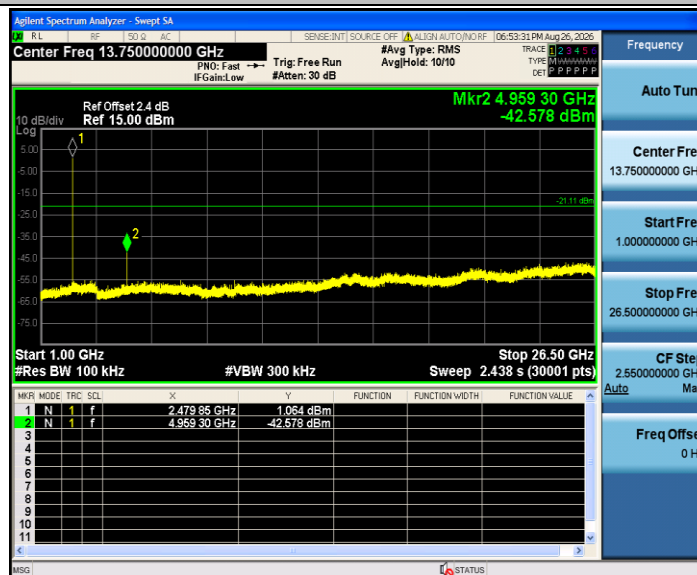
DH5_Ant1_2480_0~Reference



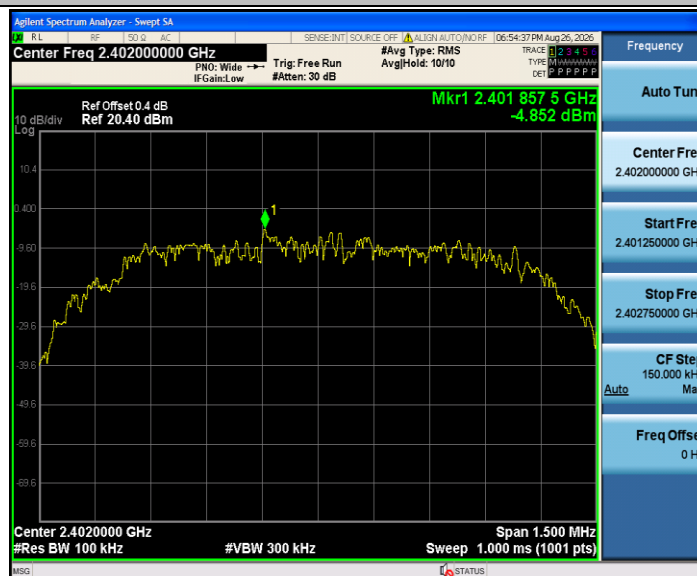
DH5_Ant1_2480_30~1000



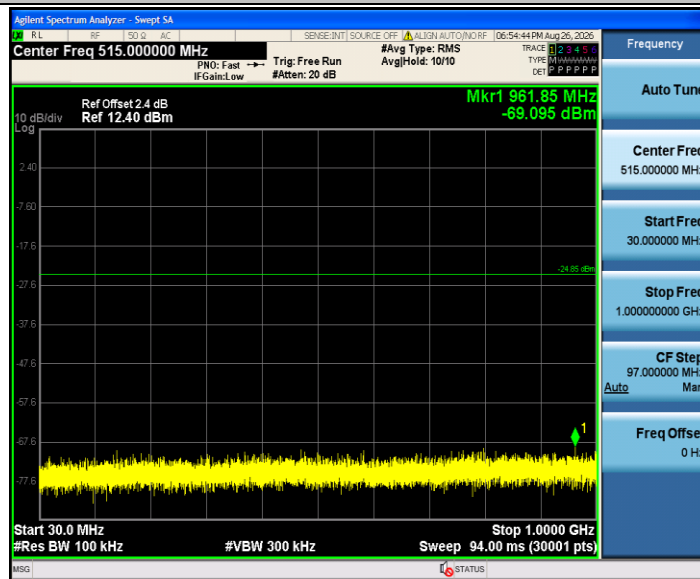
DH5_Ant1_2480_1000~26500



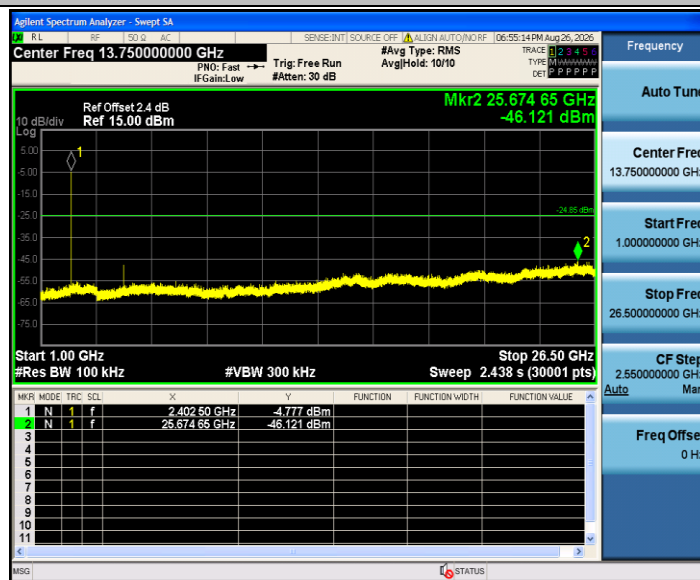
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



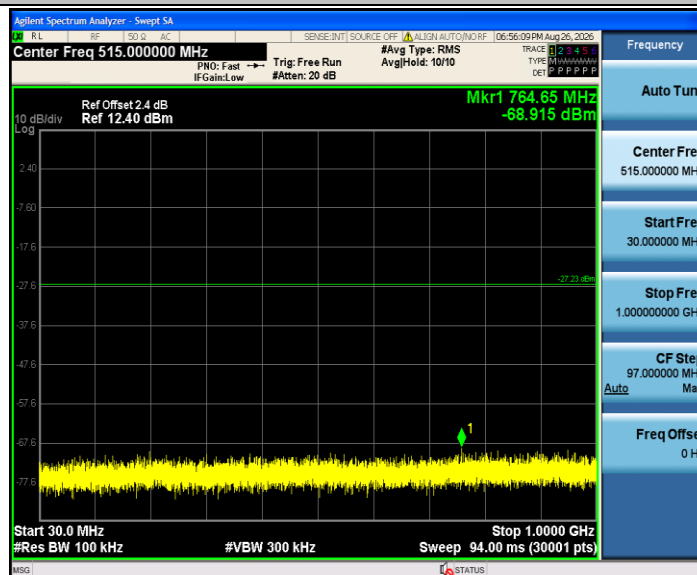
2DH5_Ant1_2402_1000~26500



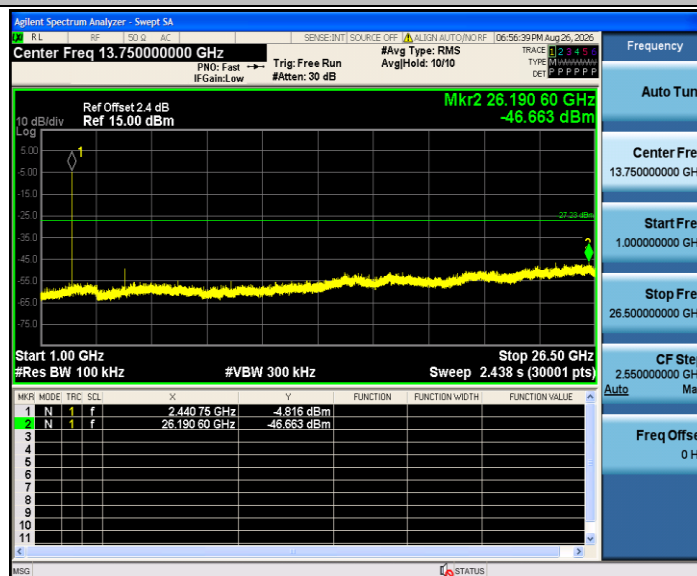
2DH5_Ant1_2441_0~Reference



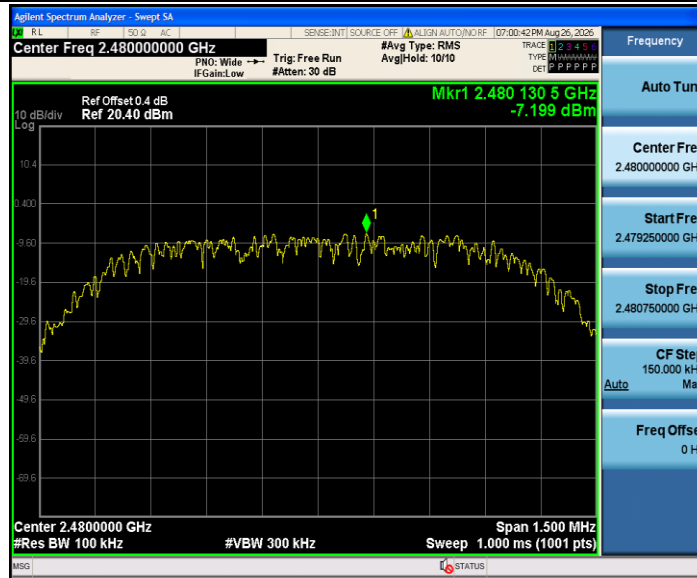
2DH5_Ant1_2441_30~1000



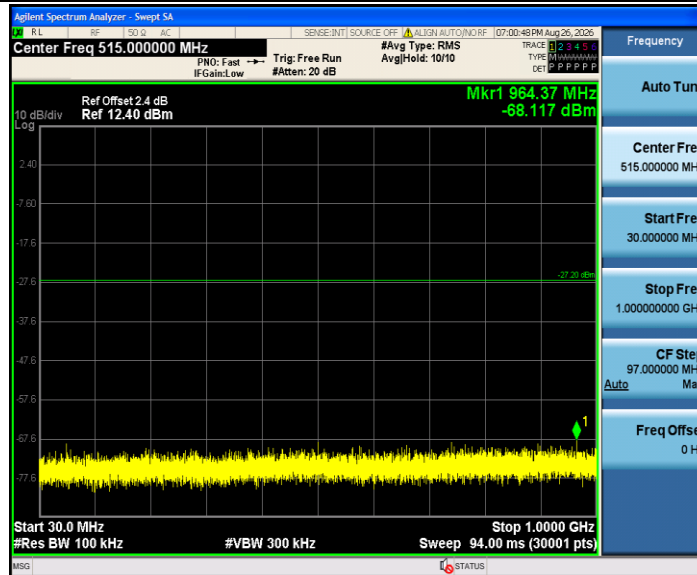
2DH5_Ant1_2441_1000~26500



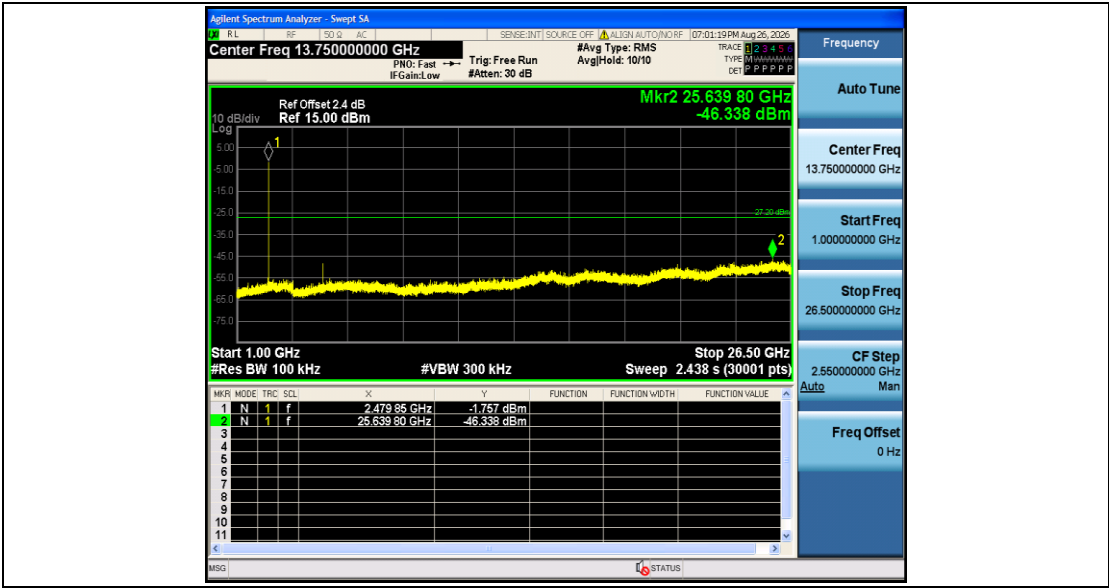
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



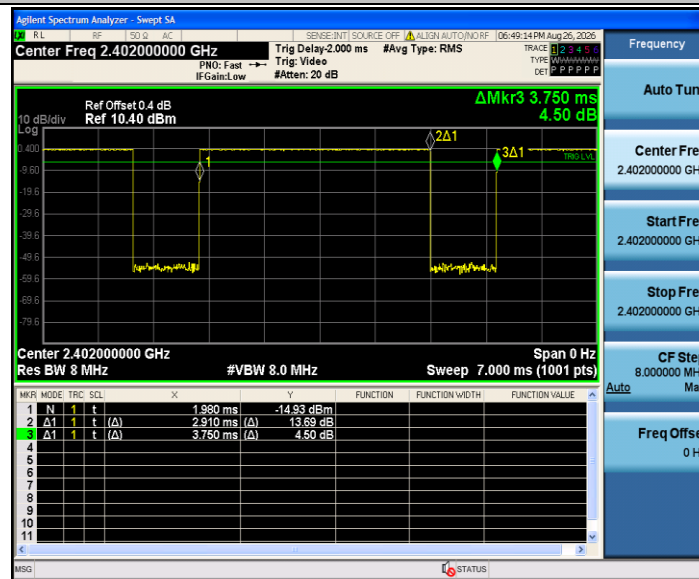
Appendix I: Duty Cycle

Test Result

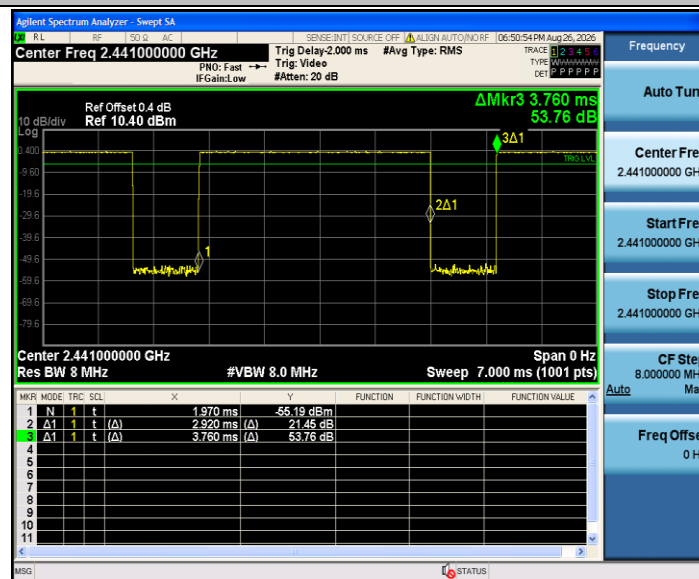
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

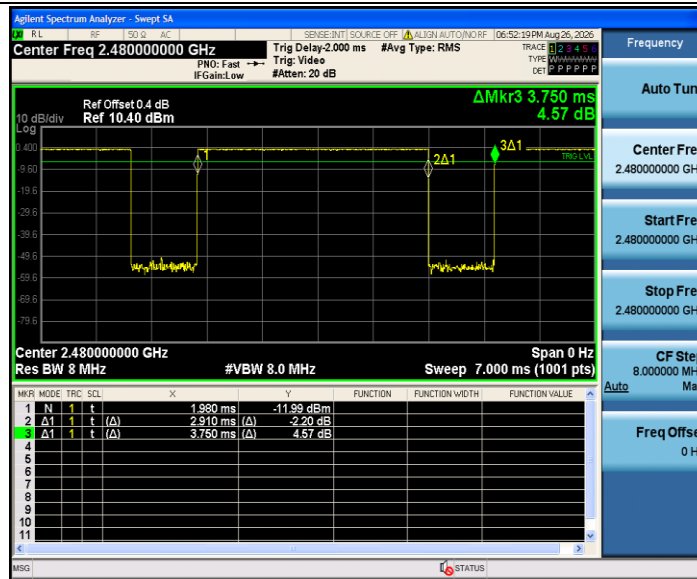
DH5_Ant1_2402



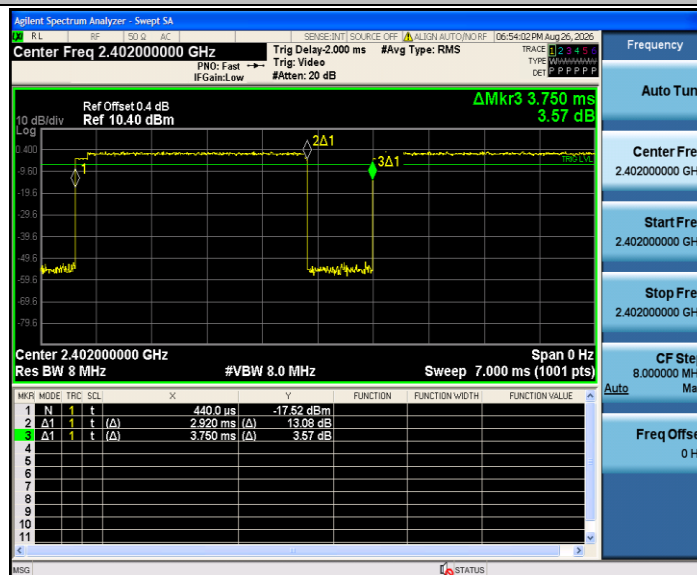
DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441

