

FCC Appendix RF Test Data for BT

FCC ID : 2BV7A-V06

Company : SMARTCORE TECHNOLOGIES LIMITED

EUT : Intelligent glasses

Model Number : V06

Report No. : CTA26050700401

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	0.963	2401.538	2402.501	---	---
		2441	0.939	2440.556	2441.495	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.278	2401.379	2402.657	---	---
		2441	1.272	2440.385	2441.657	---	---
		2480	1.356	2479.334	2480.690	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

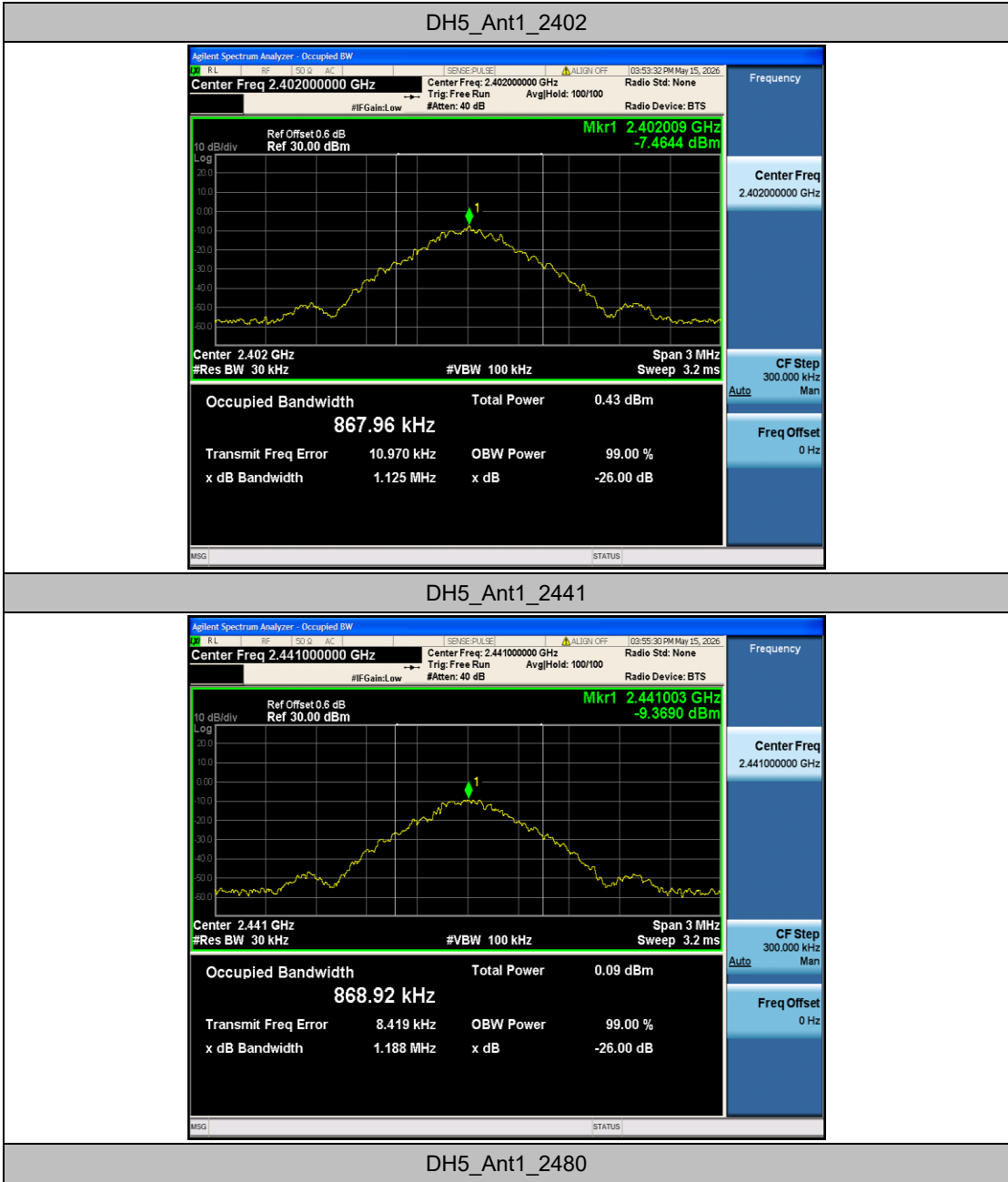


Appendix B: Occupied Channel Bandwidth

Test Result

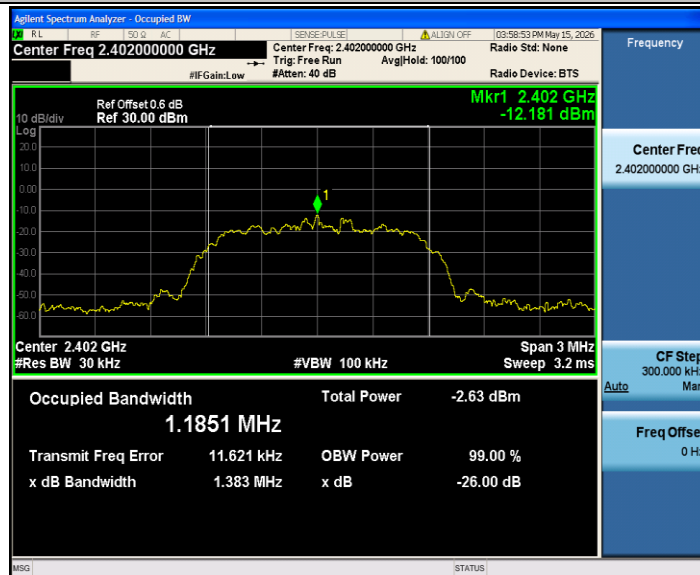
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86796	2401.5770	2402.4450	---	---
		2441	0.86892	2440.5740	2441.4429	---	---
		2480	0.87626	2479.5738	2480.4501	---	---
2DH5	Ant1	2402	1.1851	2401.4191	2402.6042	---	---
		2441	1.1876	2440.4153	2441.6029	---	---
		2480	1.1814	2479.4193	2480.6007	---	---

Test Graphs





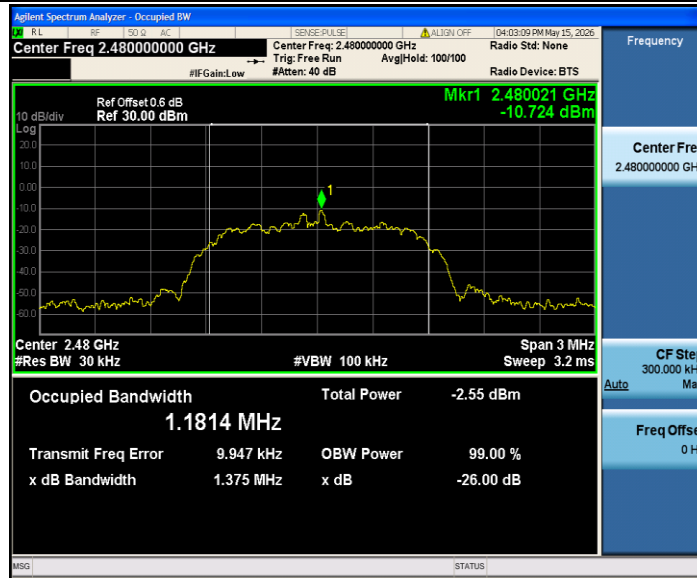
2DH5_Ant1_2402



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	-5.85	≤20.97	PASS
		2441	-5.96	≤20.97	PASS
		2480	-5.90	≤20.97	PASS
2DH5	Ant1	2402	-6.67	≤20.97	PASS
		2441	-6.79	≤20.97	PASS
		2480	-6.79	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.963	PASS
2DH5	Ant1	Hop	1.018	≥ 0.904	PASS

Test Graphs

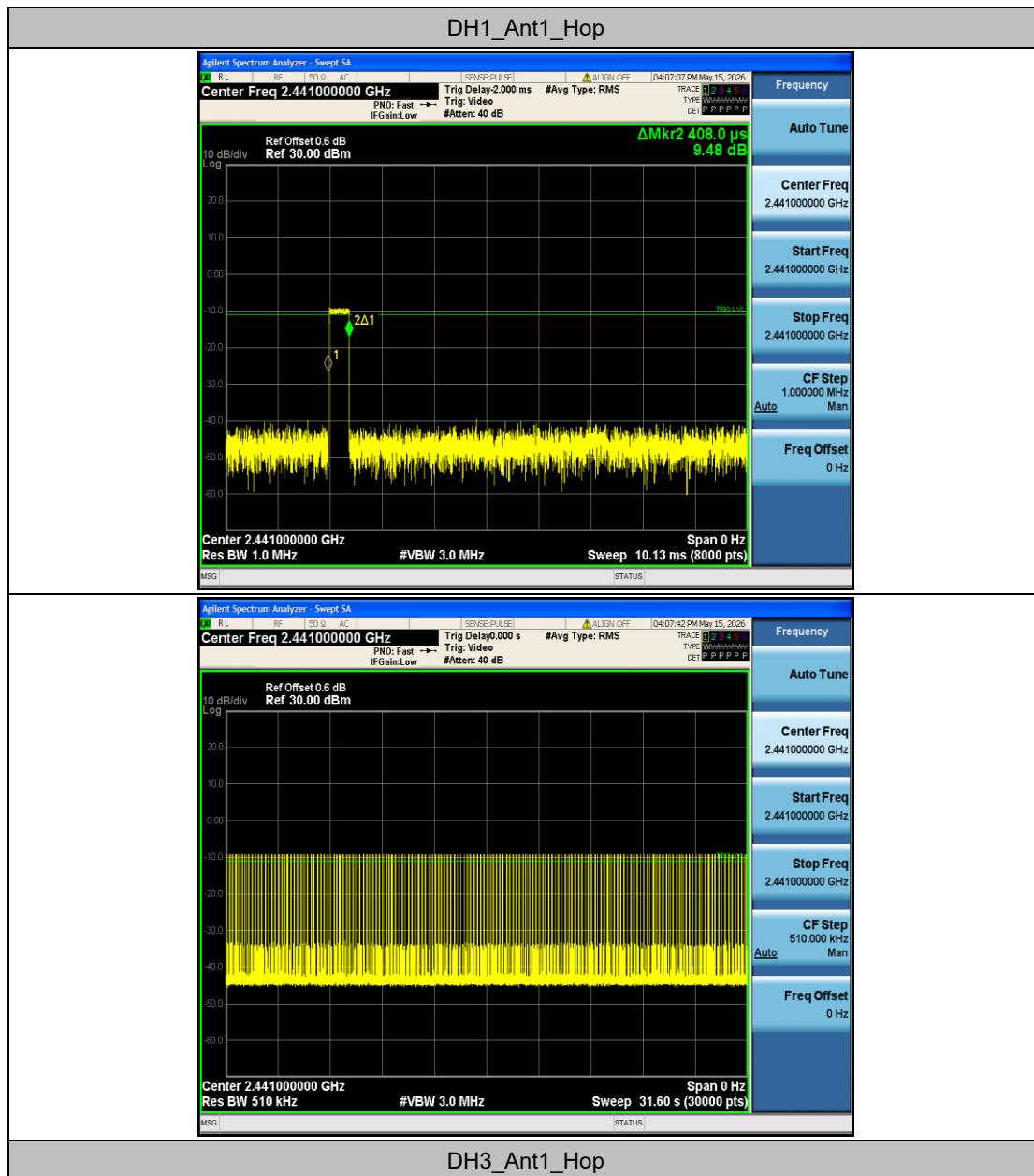


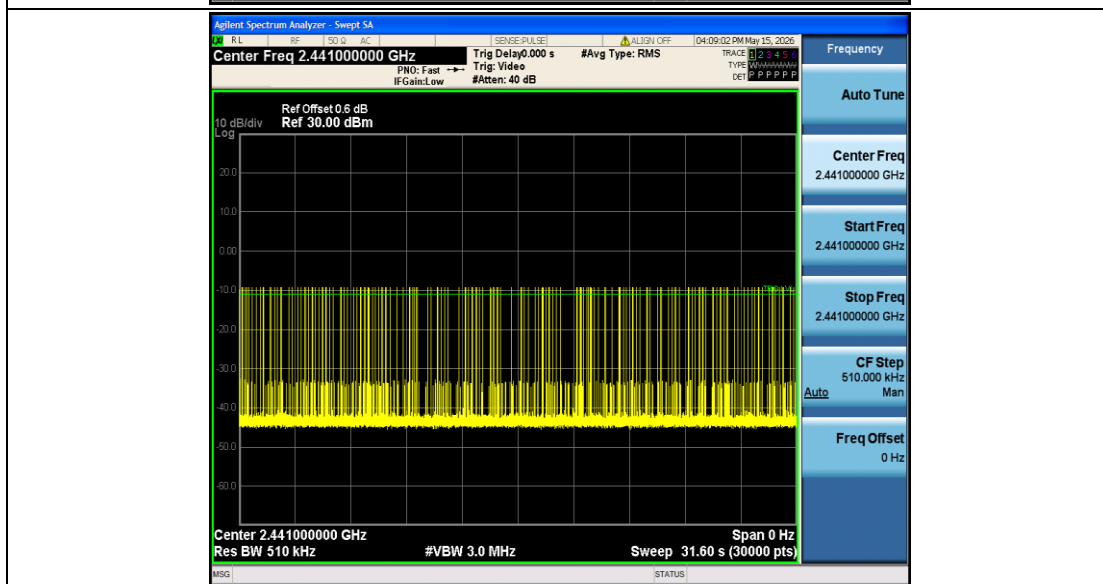
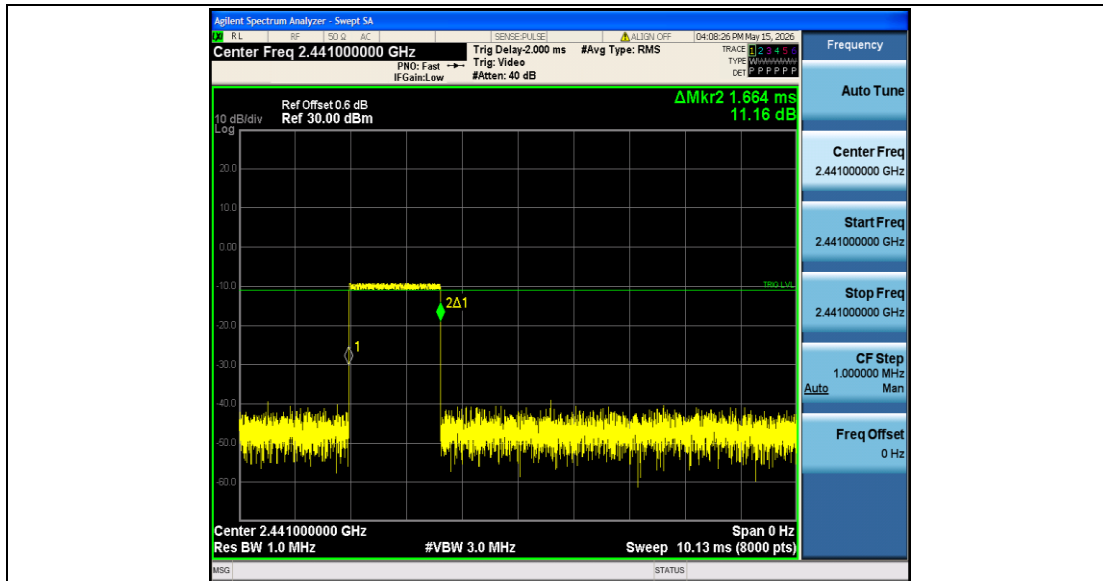
Appendix E: Time of occupancy

Test Result

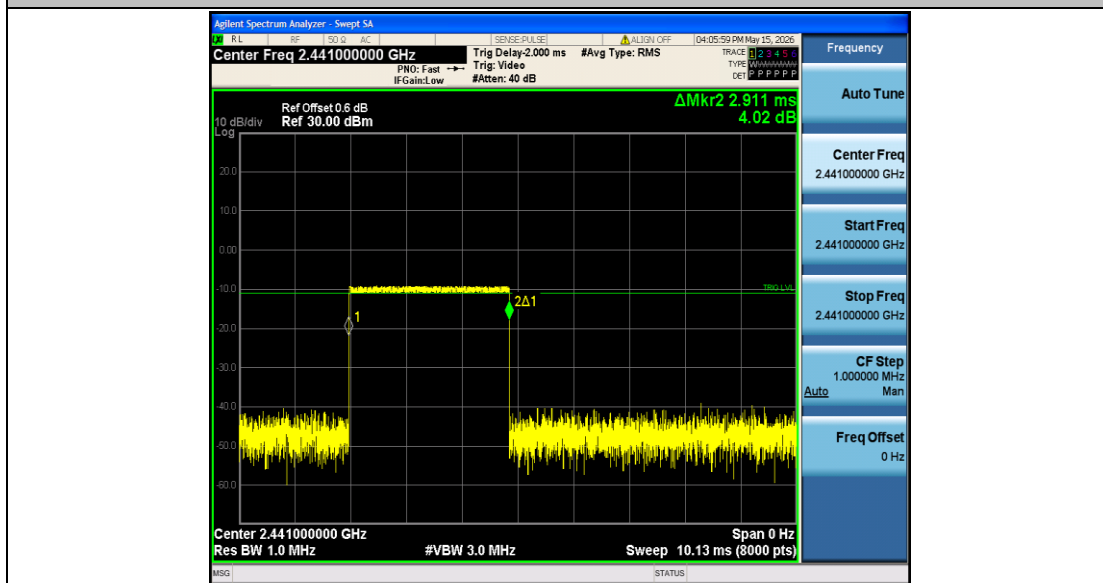
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.408	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.664	171	0.285	≤0.4	PASS
DH5	Ant1	Hop	2.911	113	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.669	162	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.918	99	0.289	≤0.4	PASS

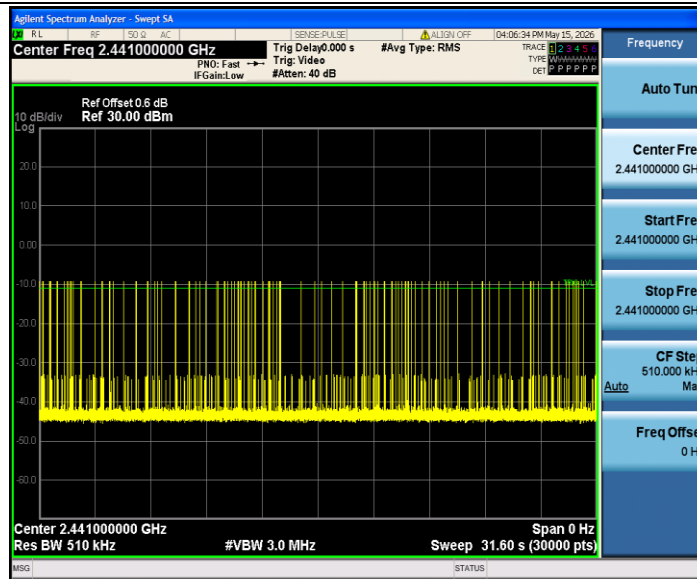
Test Graphs



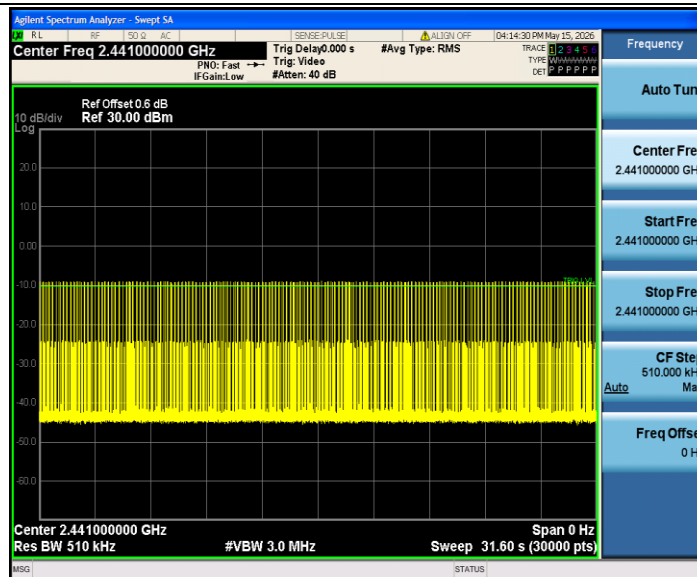
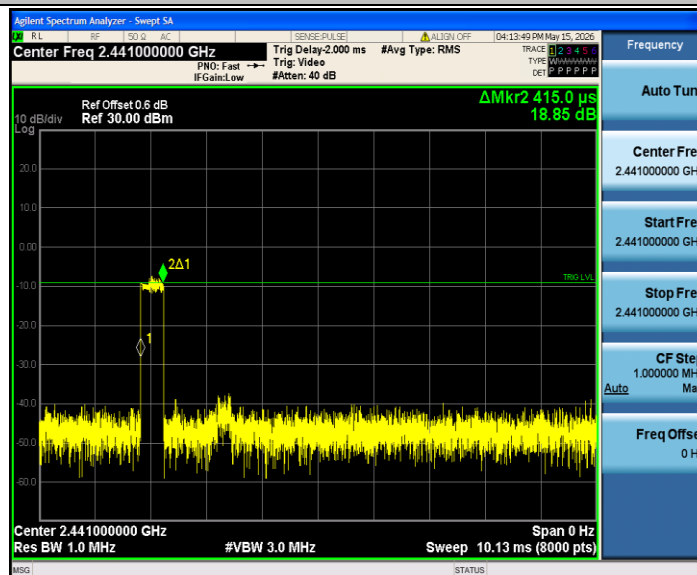


DH5_Ant1_Hop

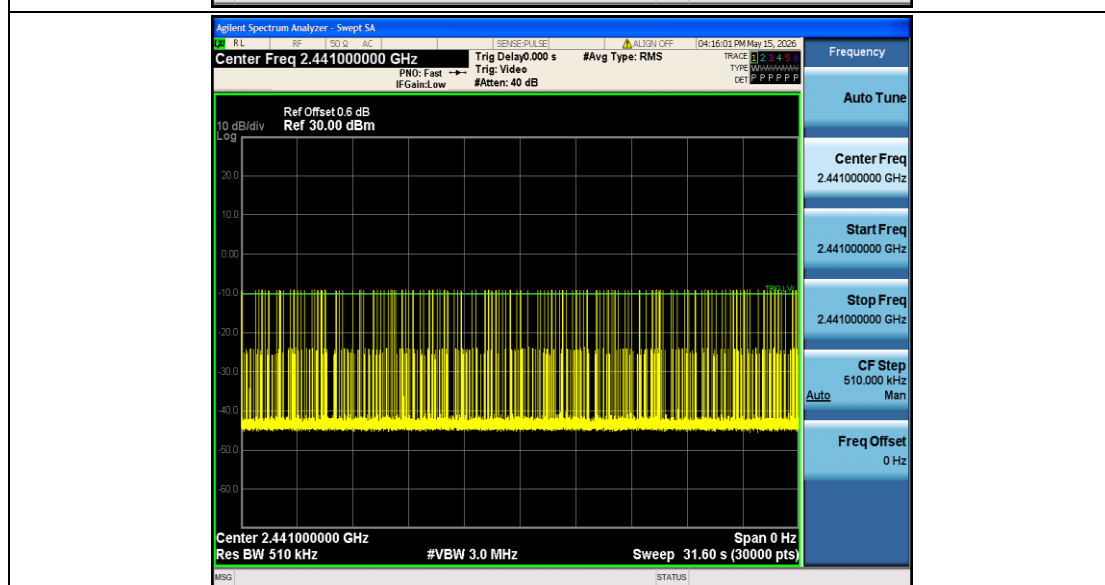
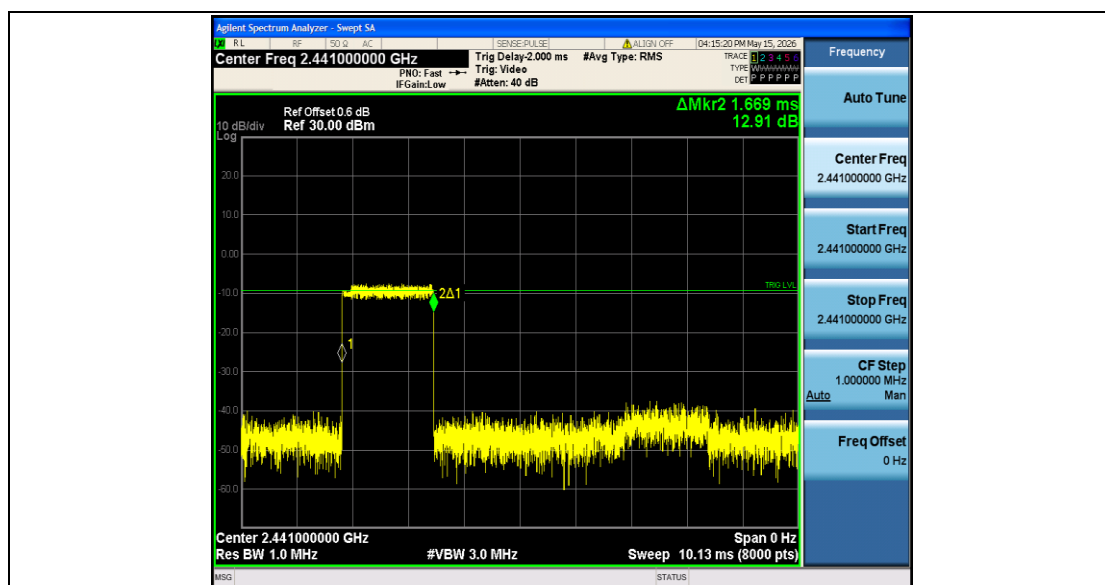




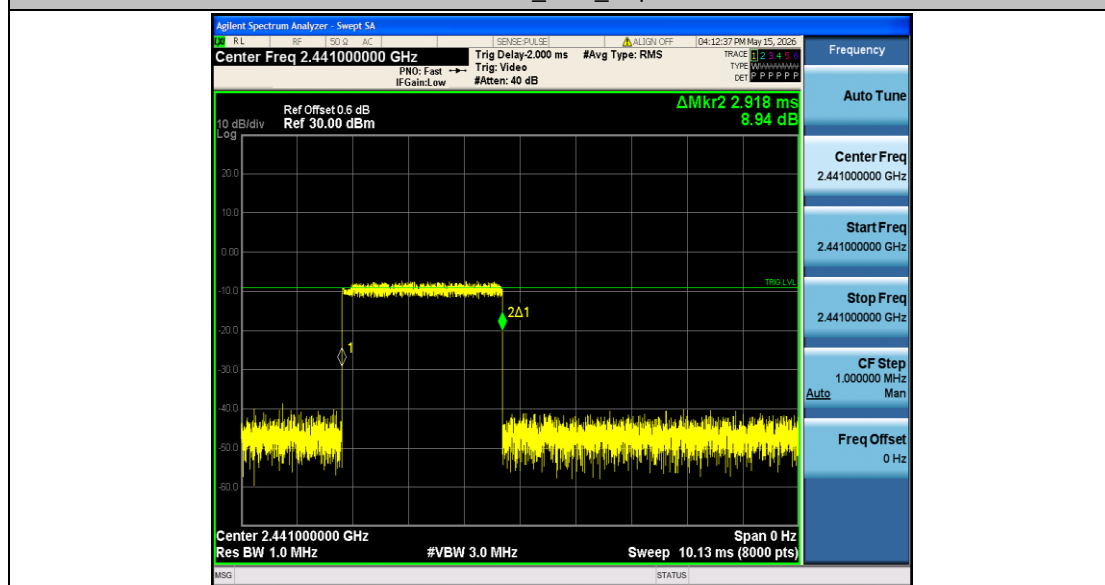
2DH1_Ant1_Hop

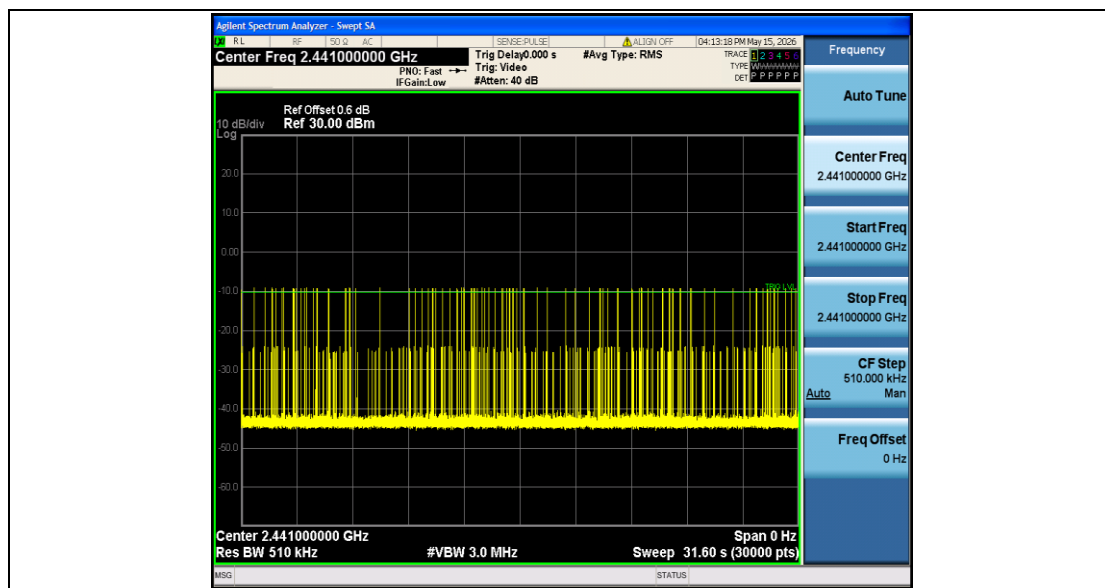


2DH3_Ant1_Hop



2DH5_Ant1_Hop



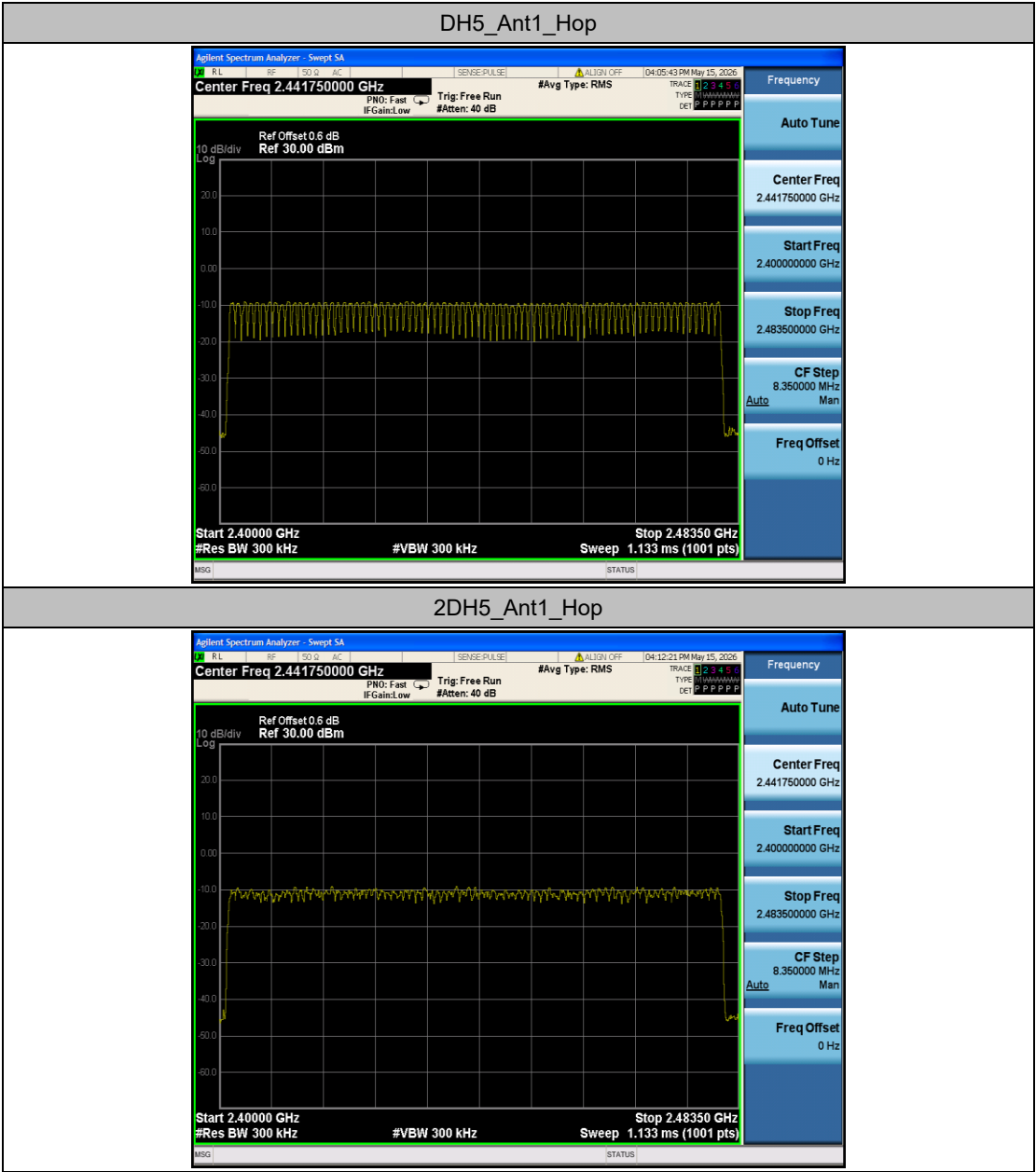


Appendix F: Number of hopping channels

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



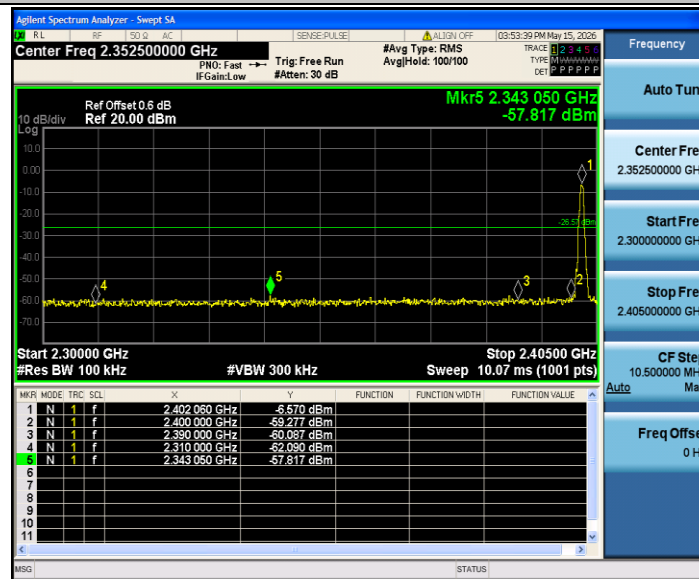
Appendix G: Band edge measurements

Test Result

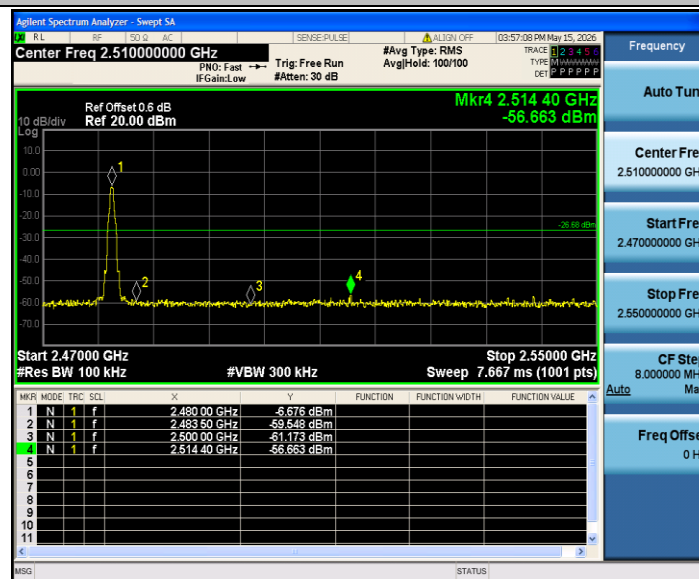
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.57	-57.82	≤ -26.57	PASS
		High	2480	-6.68	-56.66	≤ -26.68	PASS
		Low	Hop_2402	-10.47	-57.19	≤ -30.47	PASS
		High	Hop_2480	-10.41	-57.59	≤ -30.41	PASS
2DH5	Ant1	Low	2402	-9.17	-57.91	≤ -29.17	PASS
		High	2480	-11.27	-57.19	≤ -31.27	PASS
		Low	Hop_2402	-13.11	-57.37	≤ -33.11	PASS
		High	Hop_2480	-11.29	-58.1	≤ -31.29	PASS

Test Graphs

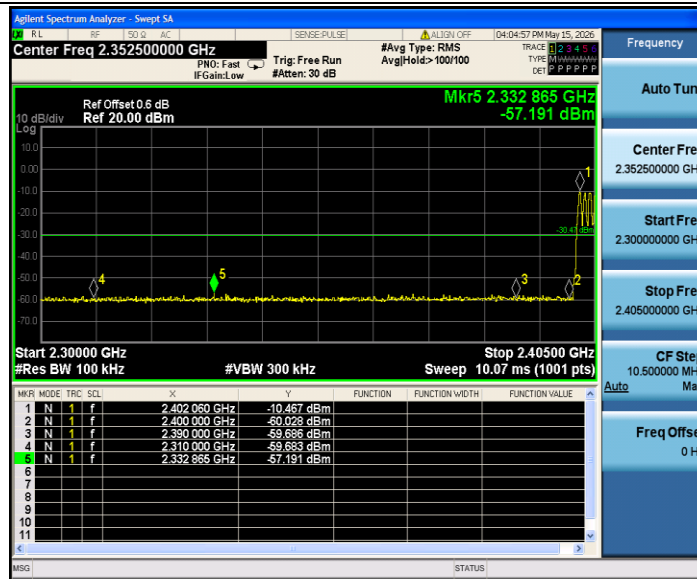
DH5_Ant1_Low_2402



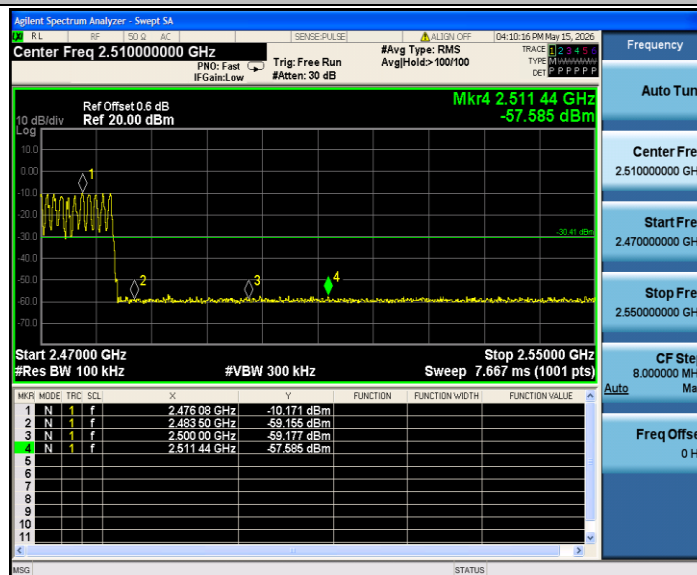
DH5_Ant1_High_2480



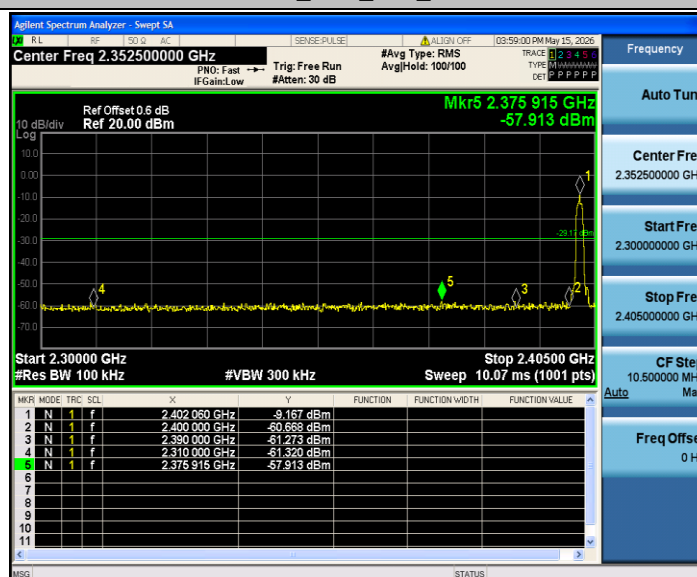
DH5_Ant1_Low_Hop_2402



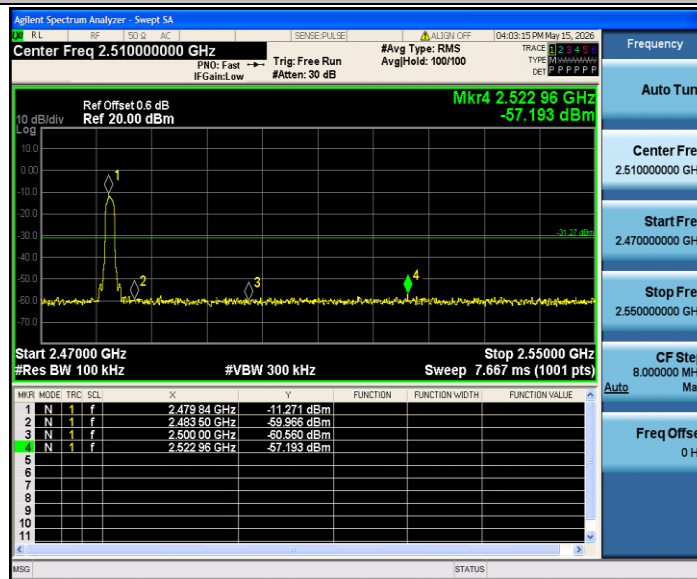
DH5_Ant1_High_Hop_2480



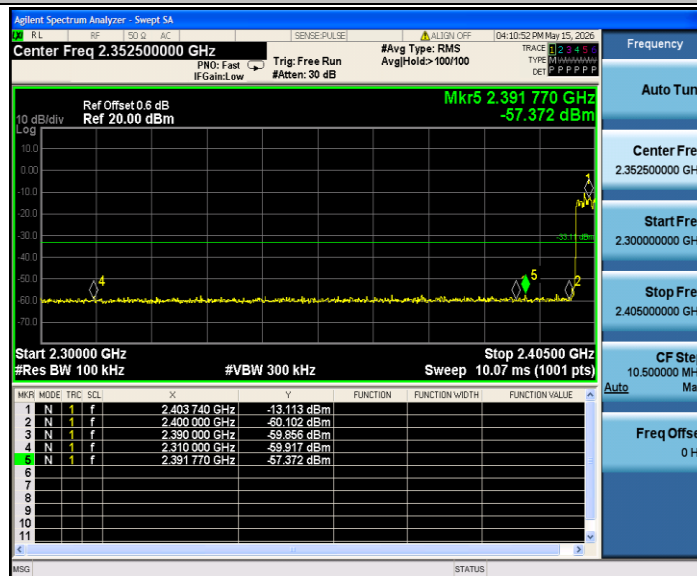
2DH5_Ant1_Low_2402



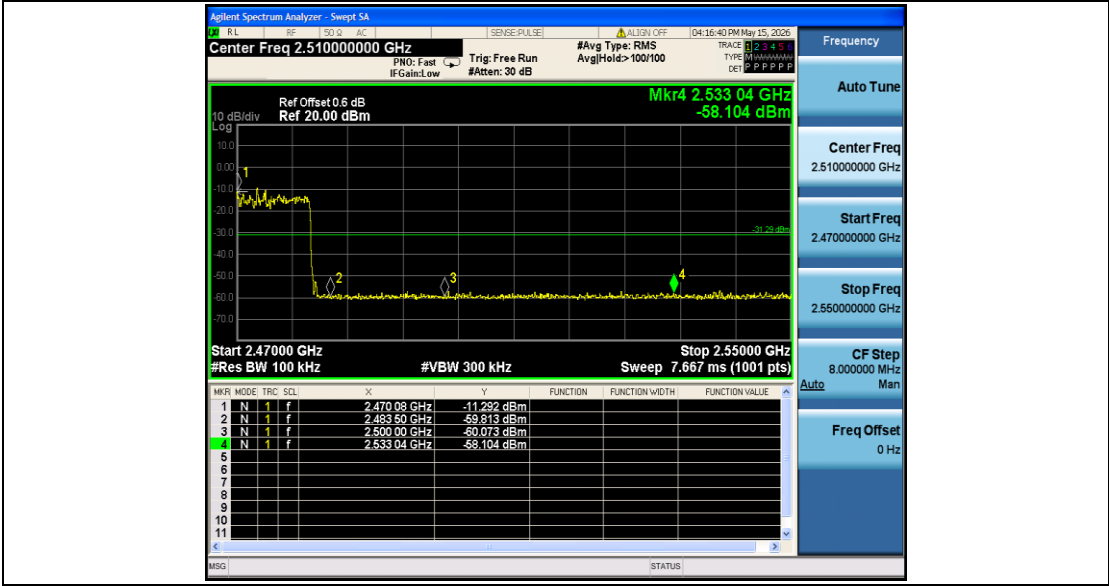
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

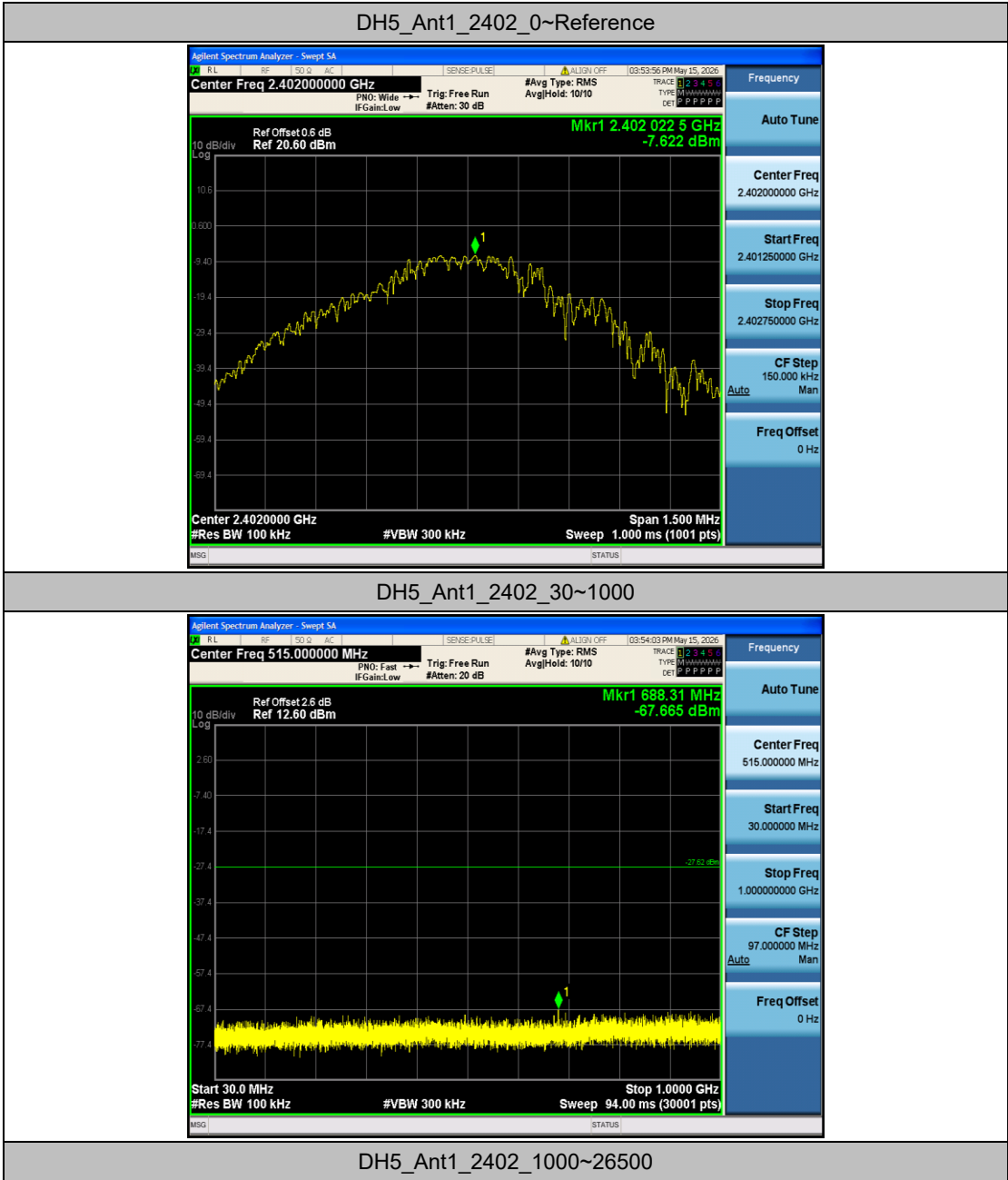


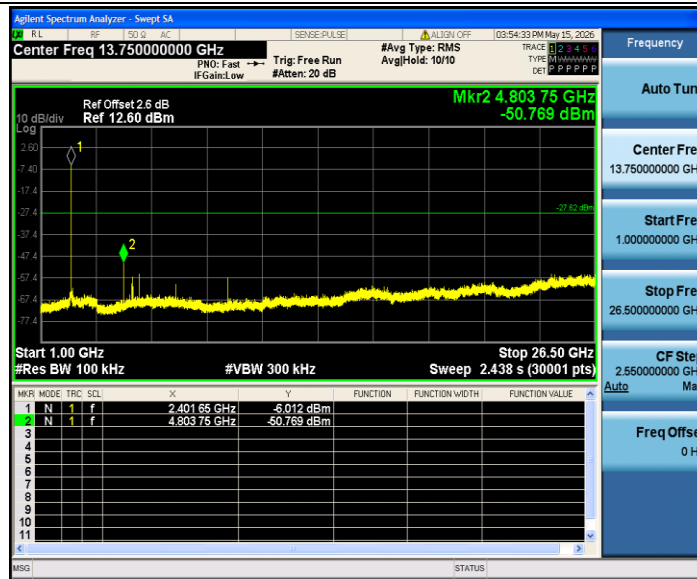
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-7.62	-7.62	---	PASS
			30~1000	-7.62	-67.67	≤-27.62	PASS
			1000~26500	-7.62	-50.77	≤-27.62	PASS
		2441	Reference	-7.34	-7.34	---	PASS
			30~1000	-7.34	-67.39	≤-27.34	PASS
			1000~26500	-7.34	-50.53	≤-27.34	PASS
		2480	Reference	-7.38	-7.38	---	PASS
			30~1000	-7.38	-68.18	≤-27.38	PASS
			1000~26500	-7.38	-51.45	≤-27.38	PASS
2DH5	Ant1	2402	Reference	-12.39	-12.39	---	PASS
			30~1000	-12.39	-67.44	≤-32.39	PASS
			1000~26500	-12.39	-55.75	≤-32.39	PASS
		2441	Reference	-11.22	-11.22	---	PASS
			30~1000	-11.22	-67.7	≤-31.22	PASS
			1000~26500	-11.22	-54.33	≤-31.22	PASS
		2480	Reference	-13.01	-13.01	---	PASS
			30~1000	-13.01	-67.98	≤-33.01	PASS
			1000~26500	-13.01	-55.15	≤-33.01	PASS

Test Graphs

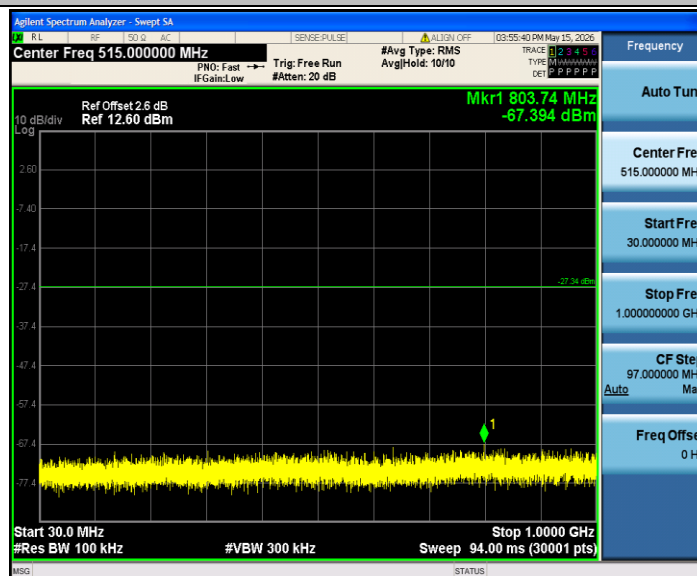




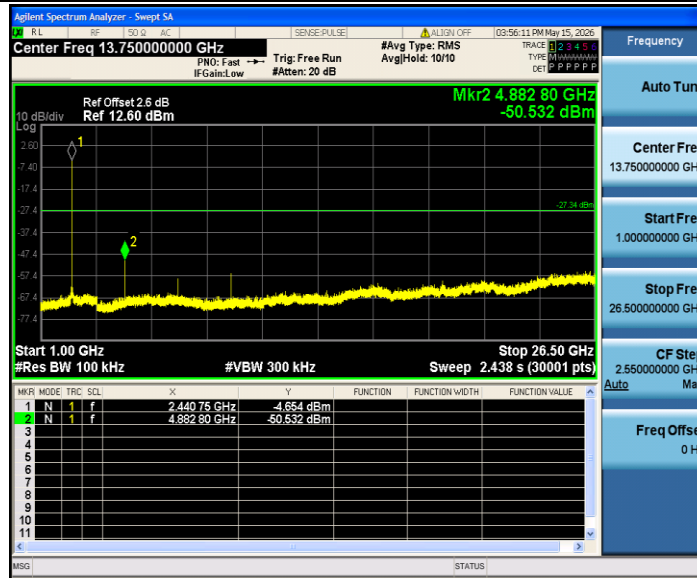
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



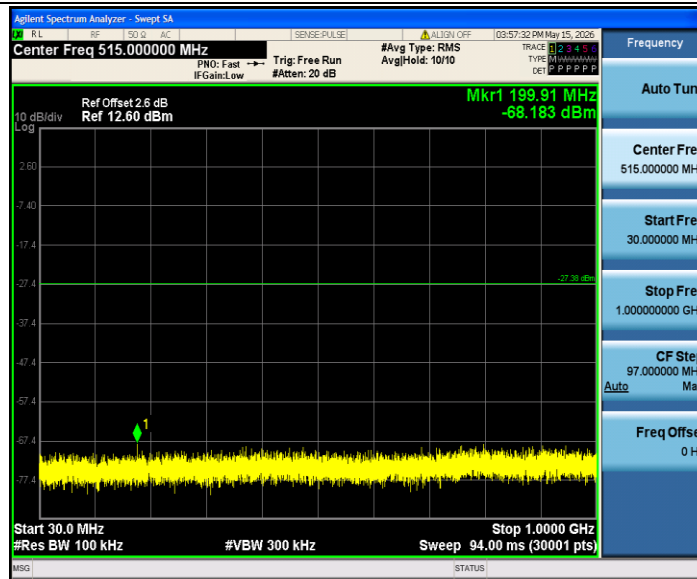
DH5_Ant1_2441_1000~26500



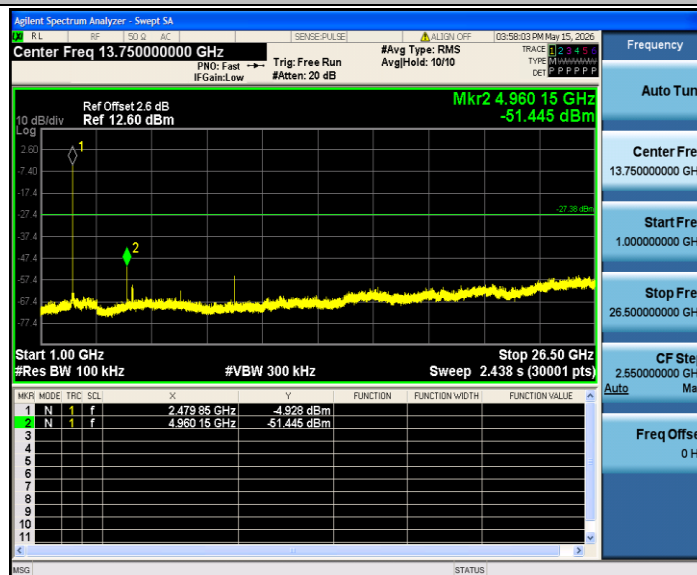
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



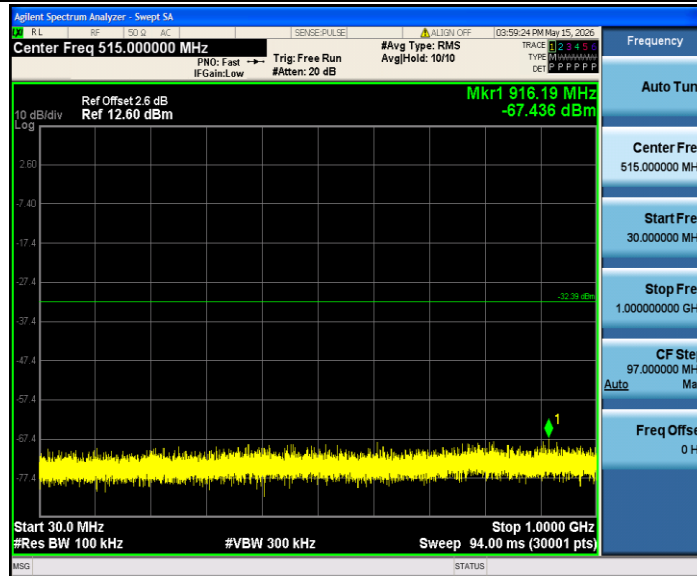
DH5_Ant1_2480_1000~26500



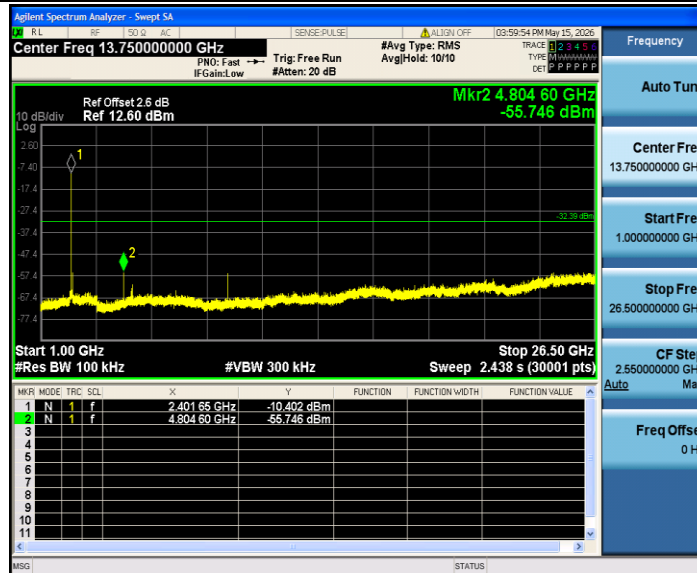
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



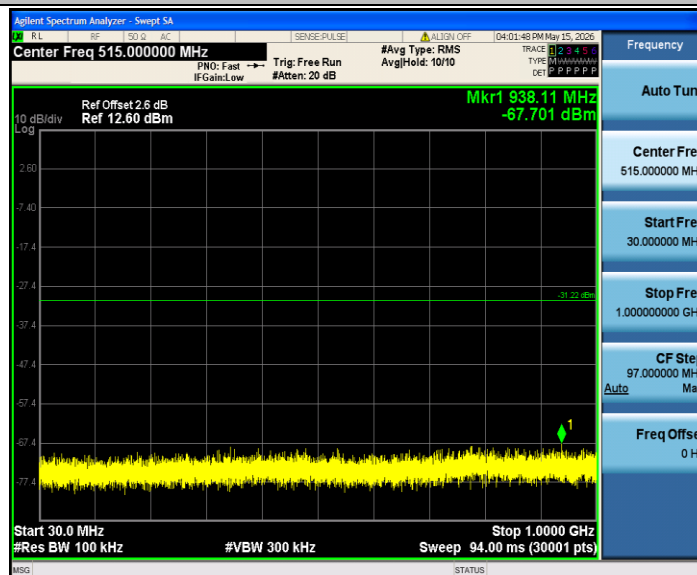
2DH5_Ant1_2402_1000~26500



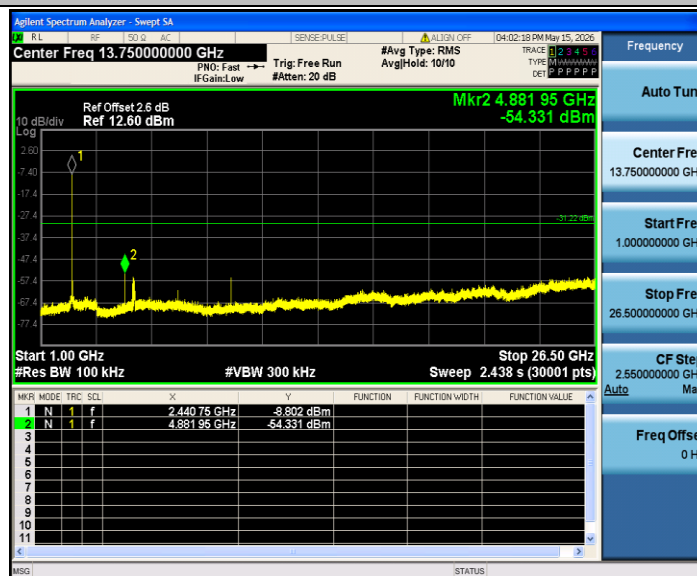
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



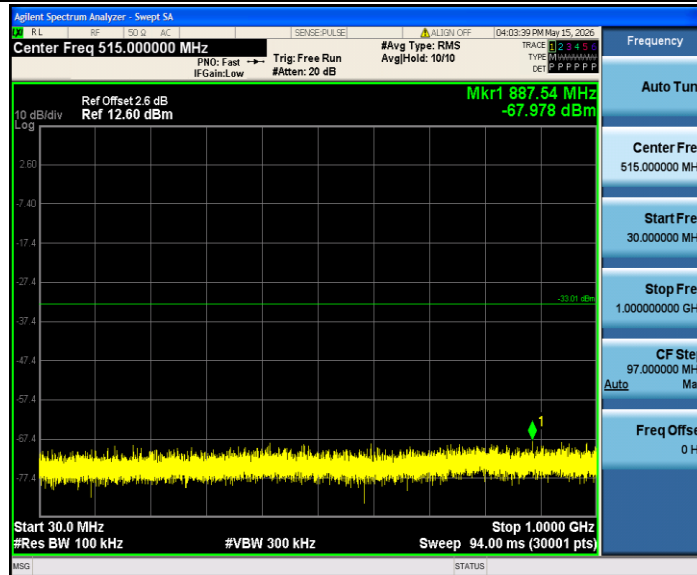
2DH5_Ant1_2441_1000~26500



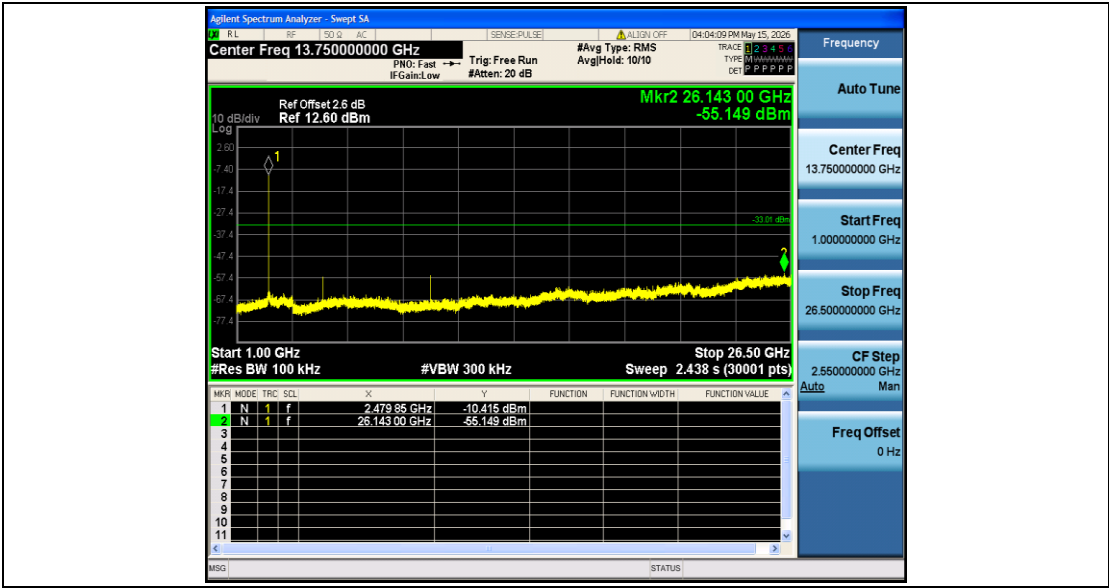
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

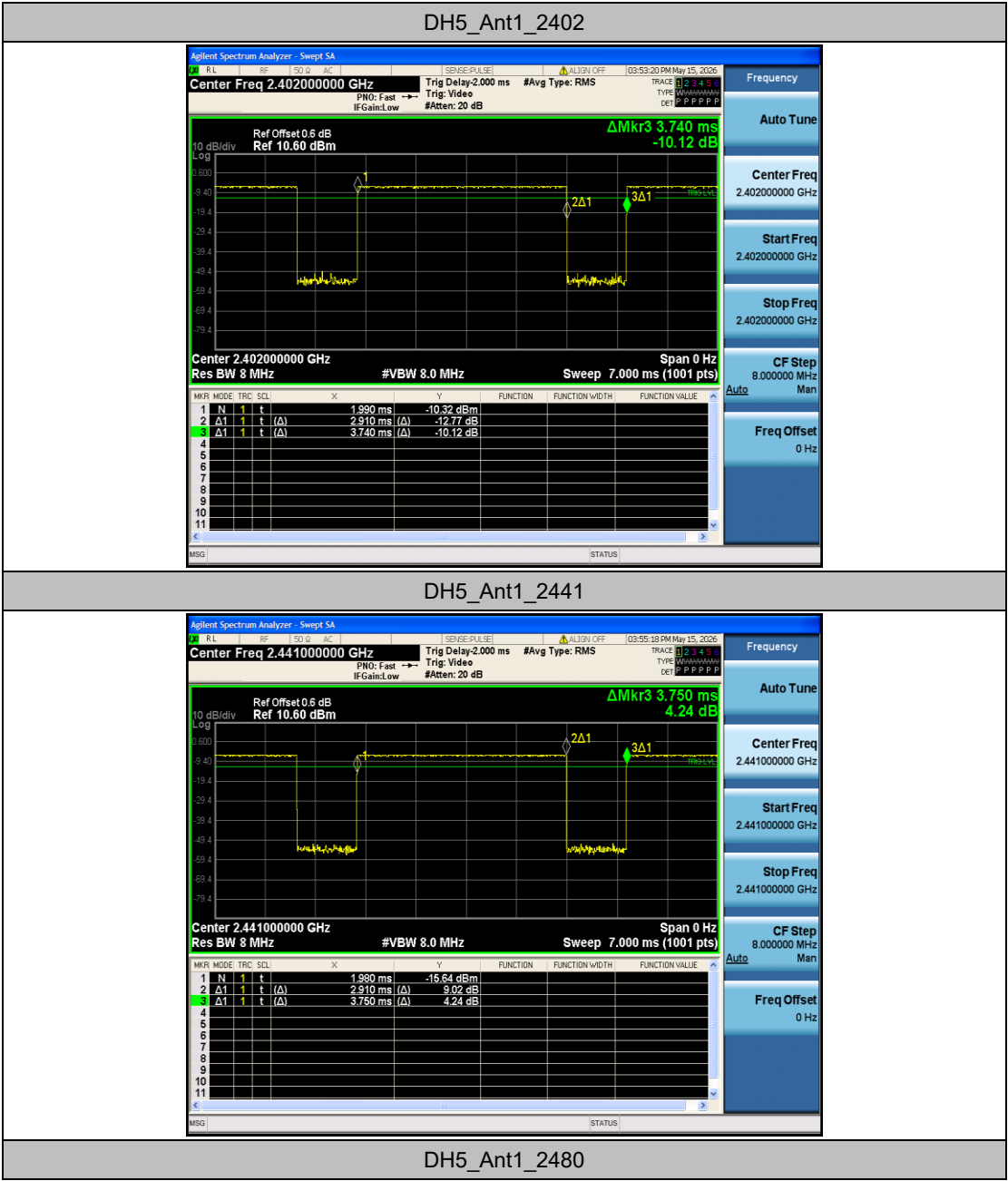


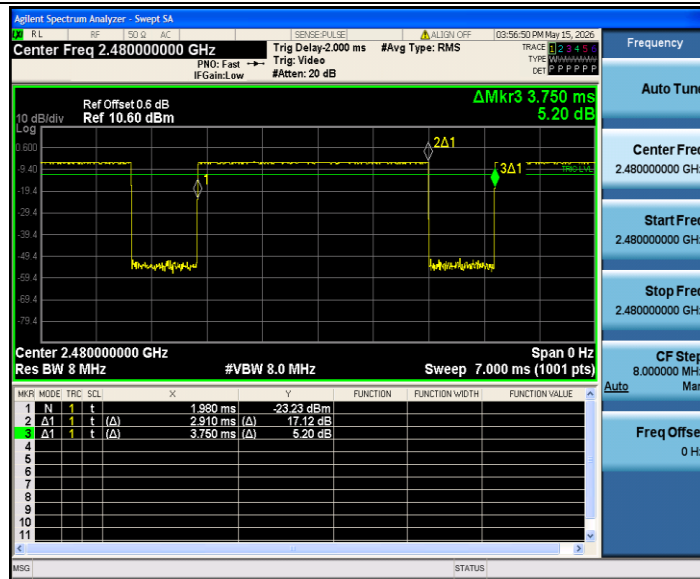
Appendix I: Duty Cycle

Test Result

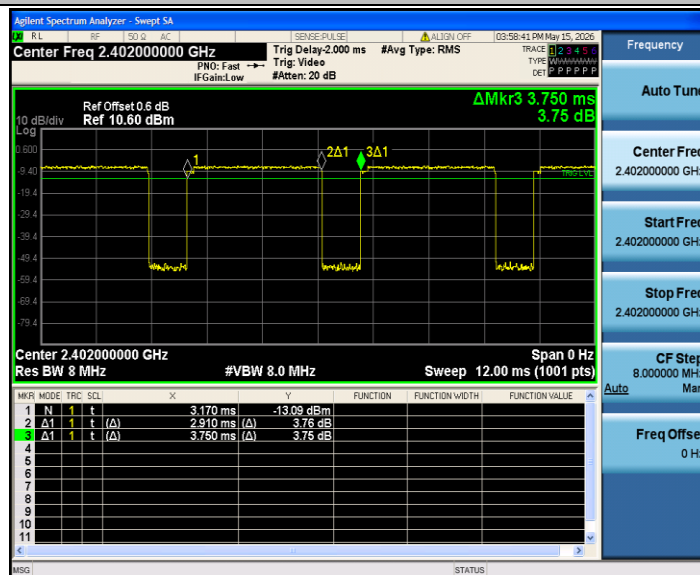
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.74	77.81	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

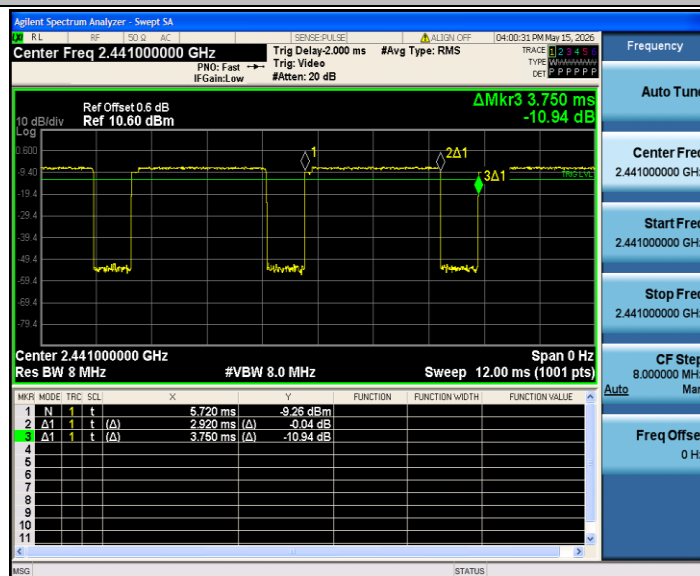




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

