

FCC Appendix RF Test Data for BT

FCC ID : 2BK62-A18

Company : Shenzhen Wenfengsheng Electronics Co., Ltd.

EUT : Wireless Earphone

Model Number : A18

Report No. : CTA25122302501

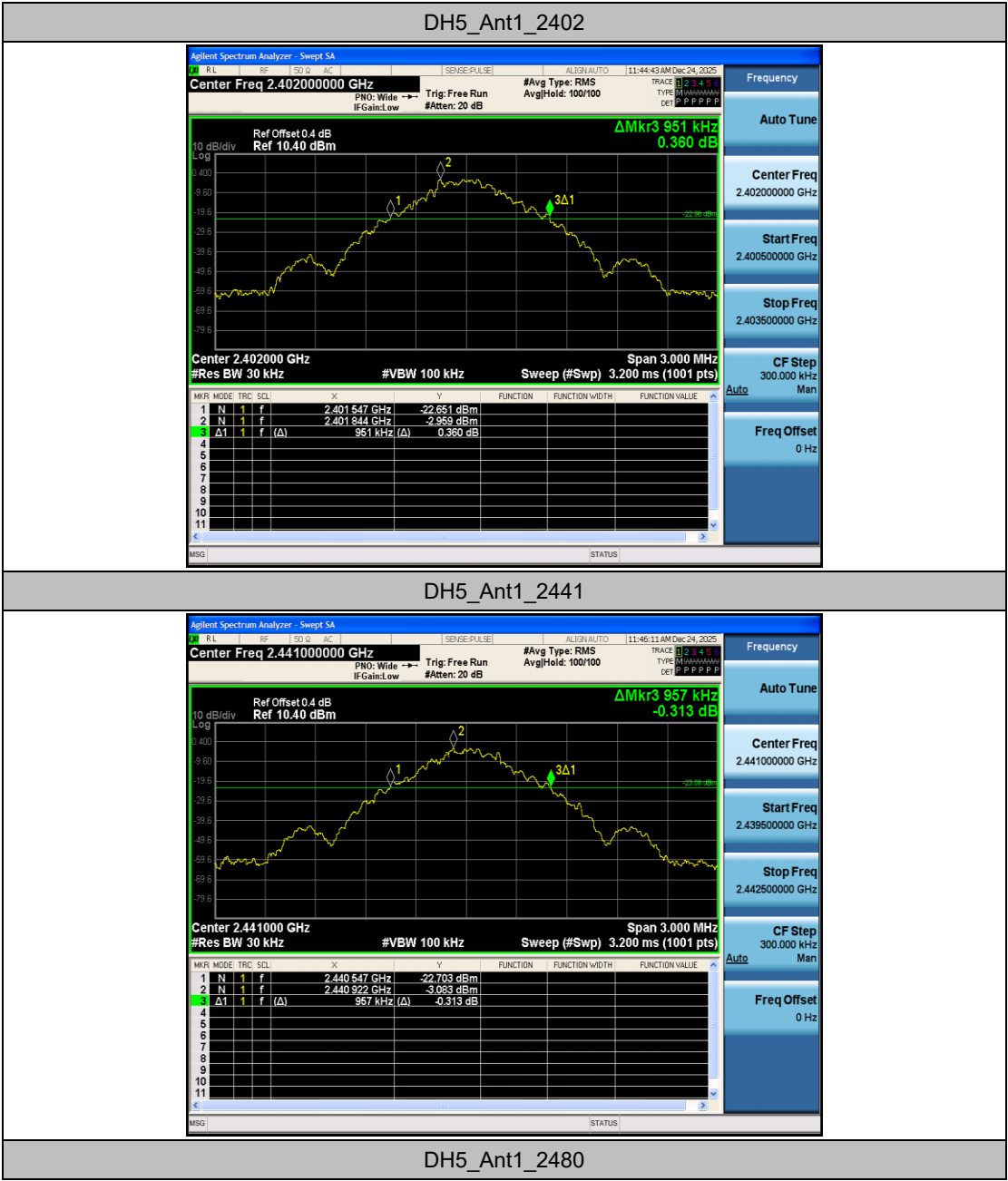
Reviewed By : Eric Wang

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	0.957	2440.547	2441.504	---	---
		2480	0.957	2479.547	2480.504	---	---
2DH5	Ant1	2402	1.323	2401.346	2402.669	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.278	2479.382	2480.660	---	---

Test Graphs





2DHS_Ant1_2402



2DHS_Ant1_2441



2DH5_Ant1_2480

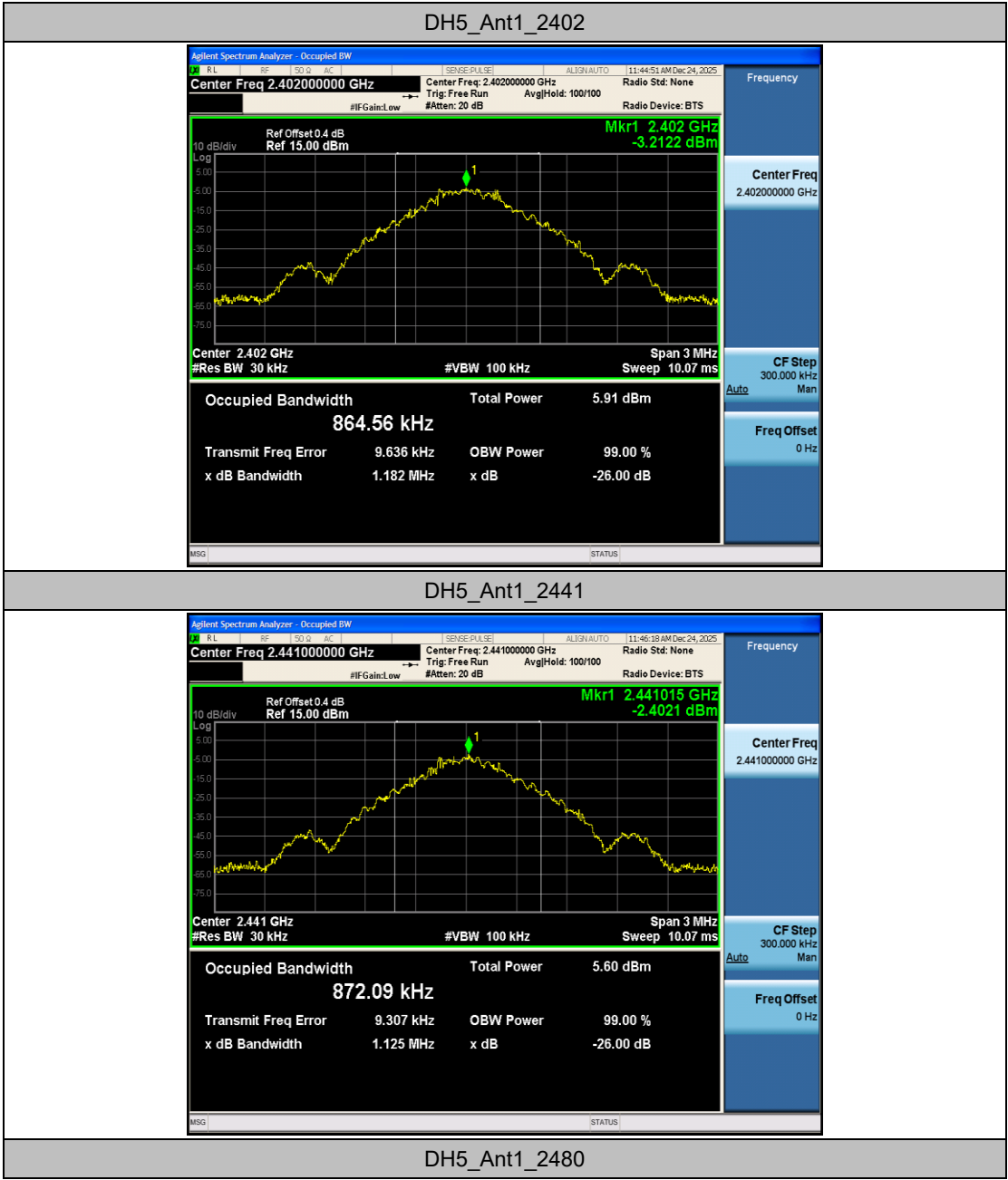


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86456	2401.5774	2402.4419	---	---
		2441	0.87209	2440.5733	2441.4454	---	---
		2480	0.87662	2479.5716	2480.4482	---	---
2DH5	Ant1	2402	1.1898	2401.4152	2402.6050	---	---
		2441	1.1870	2440.4175	2441.6045	---	---
		2480	1.1916	2479.4168	2480.6084	---	---

Test Graphs

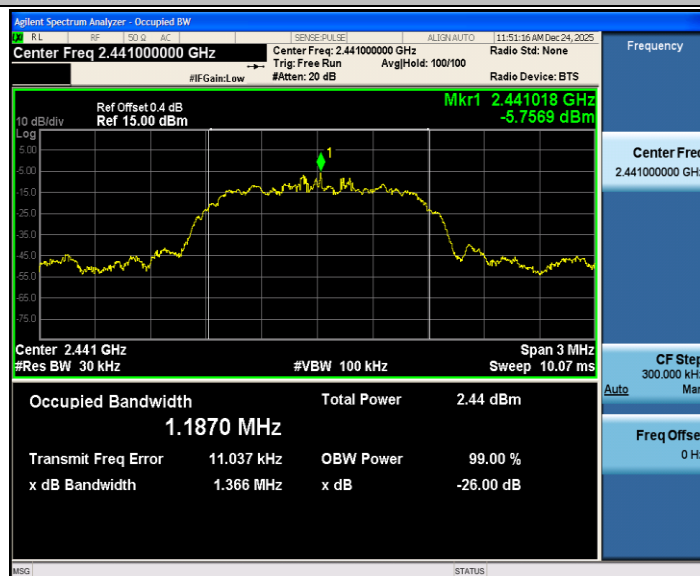




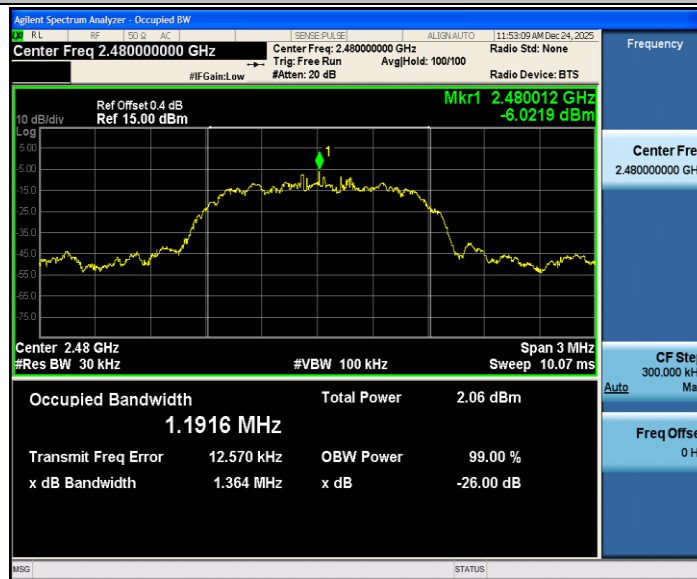
2DH5_Ant1_2402



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	-0.02	≤20.97	PASS
		2441	-0.28	≤20.97	PASS
		2480	-0.38	≤20.97	PASS
2DH5	Ant1	2402	-0.85	≤20.97	PASS
		2441	-1.08	≤20.97	PASS
		2480	-1.17	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.957	PASS
2DH5	Ant1	Hop	1.312	≥ 0.882	PASS

Test Graphs

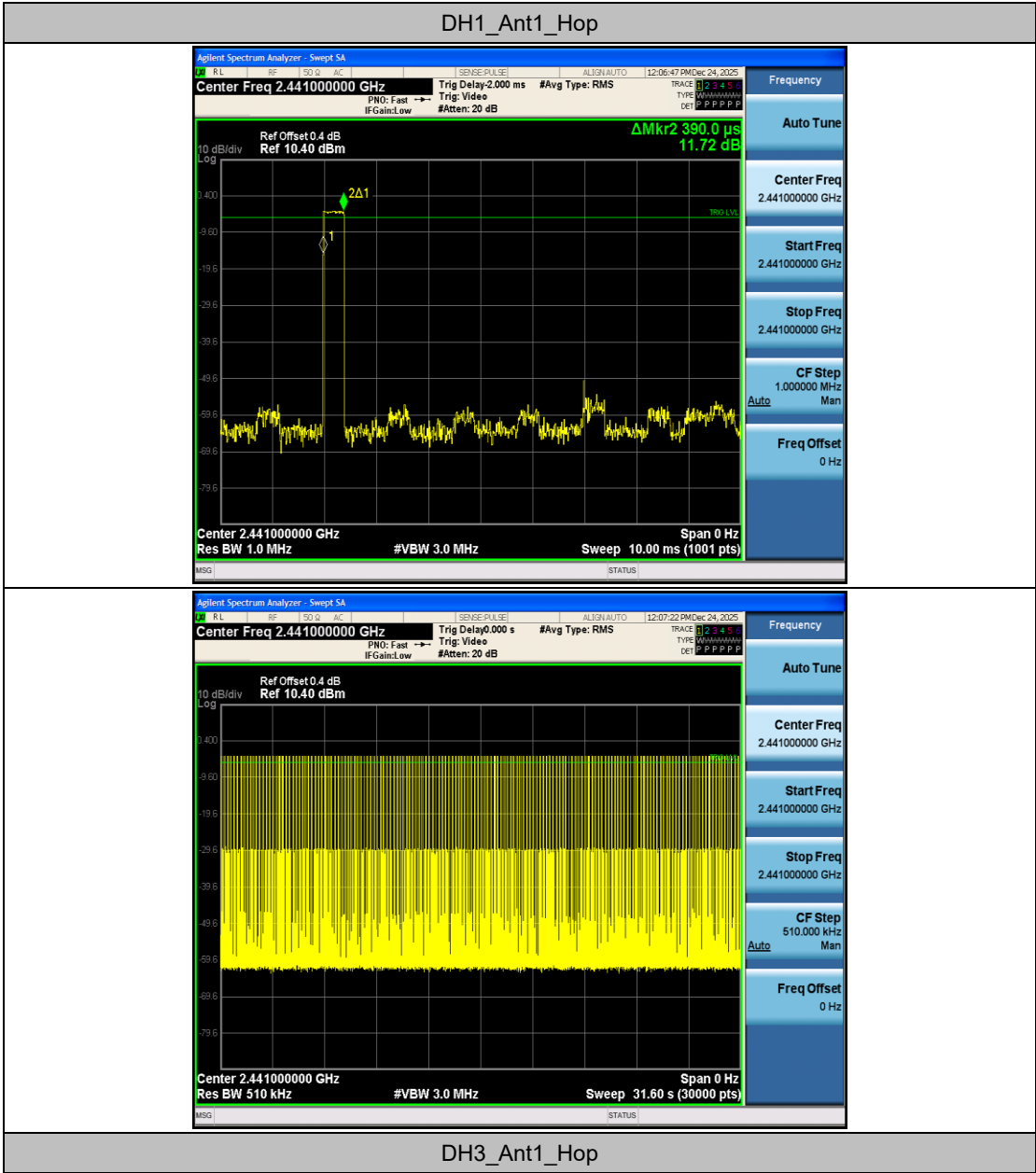


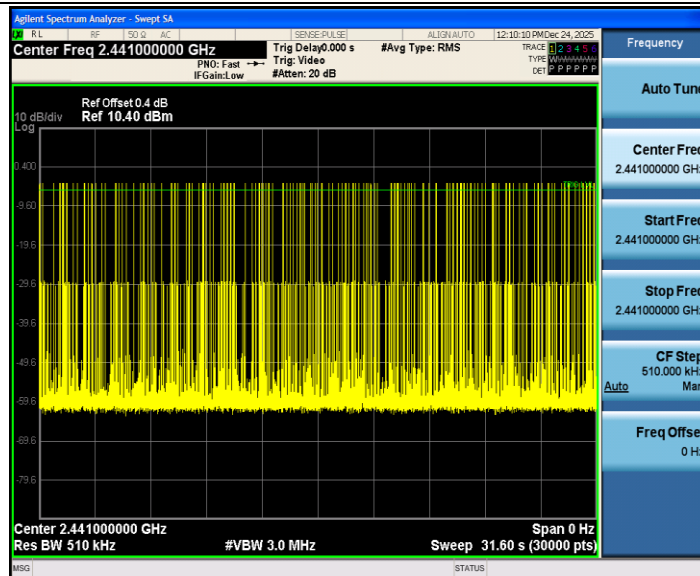
Appendix E: Time of occupancy

Test Result

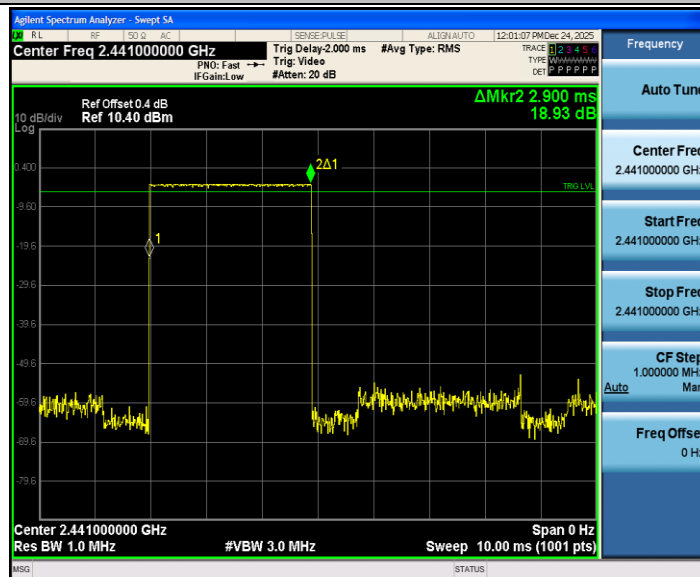
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	161	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.900	109	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	152	0.249	≤0.4	PASS
2DH5	Ant1	Hop	2.900	98	0.284	≤0.4	PASS

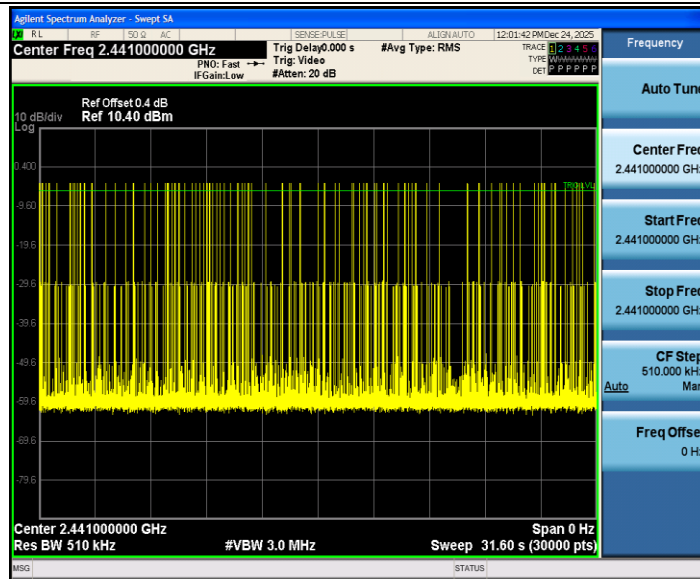
Test Graphs



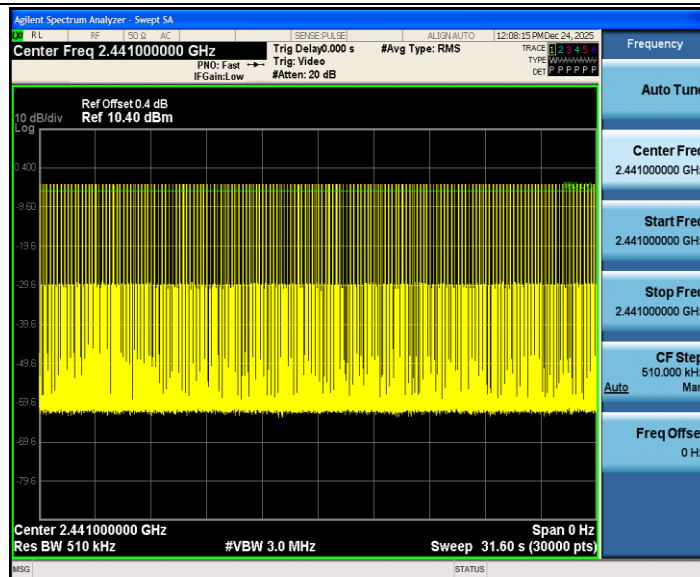
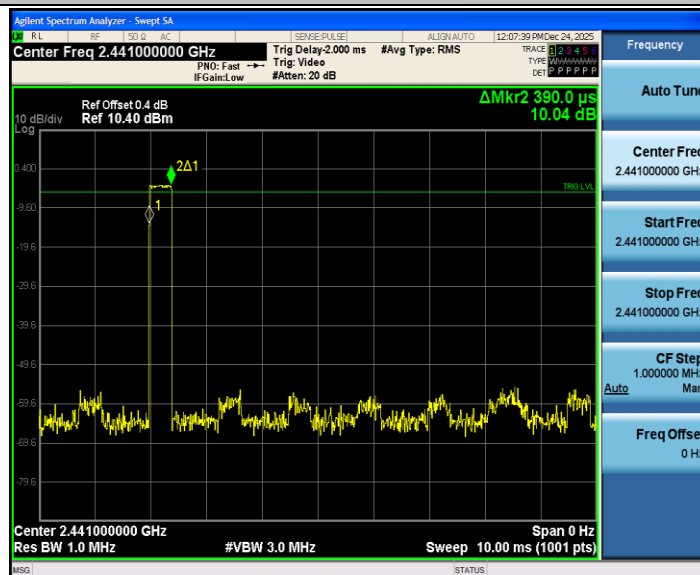


DH5_Ant1_Hop

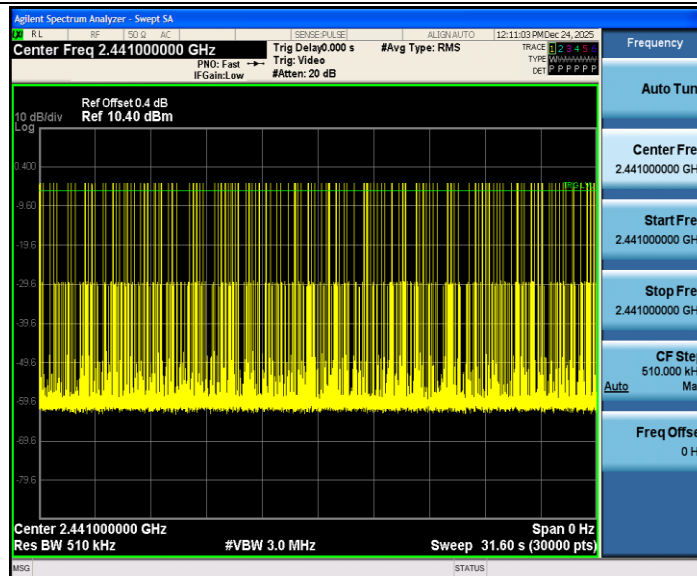




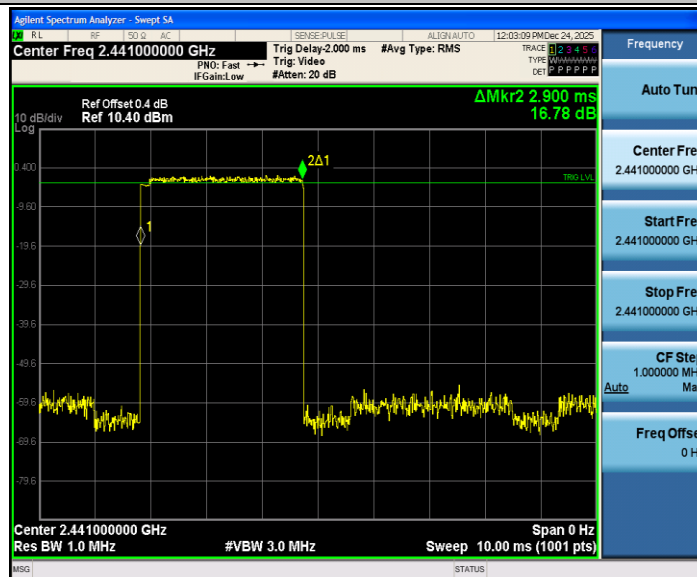
2DH1_Ant1_Hop

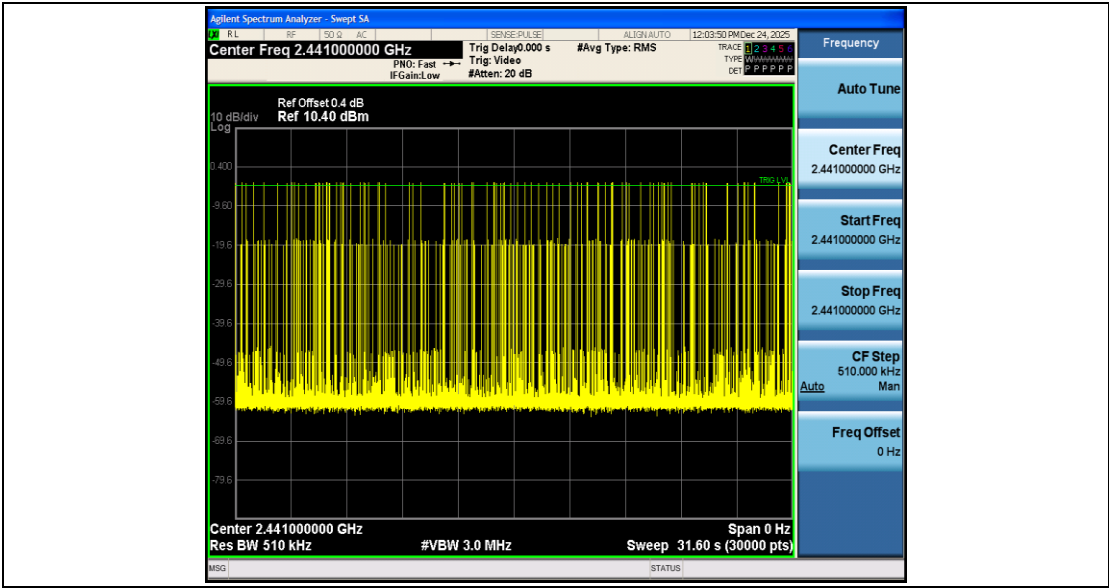


2DH3_Ant1_Hop



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

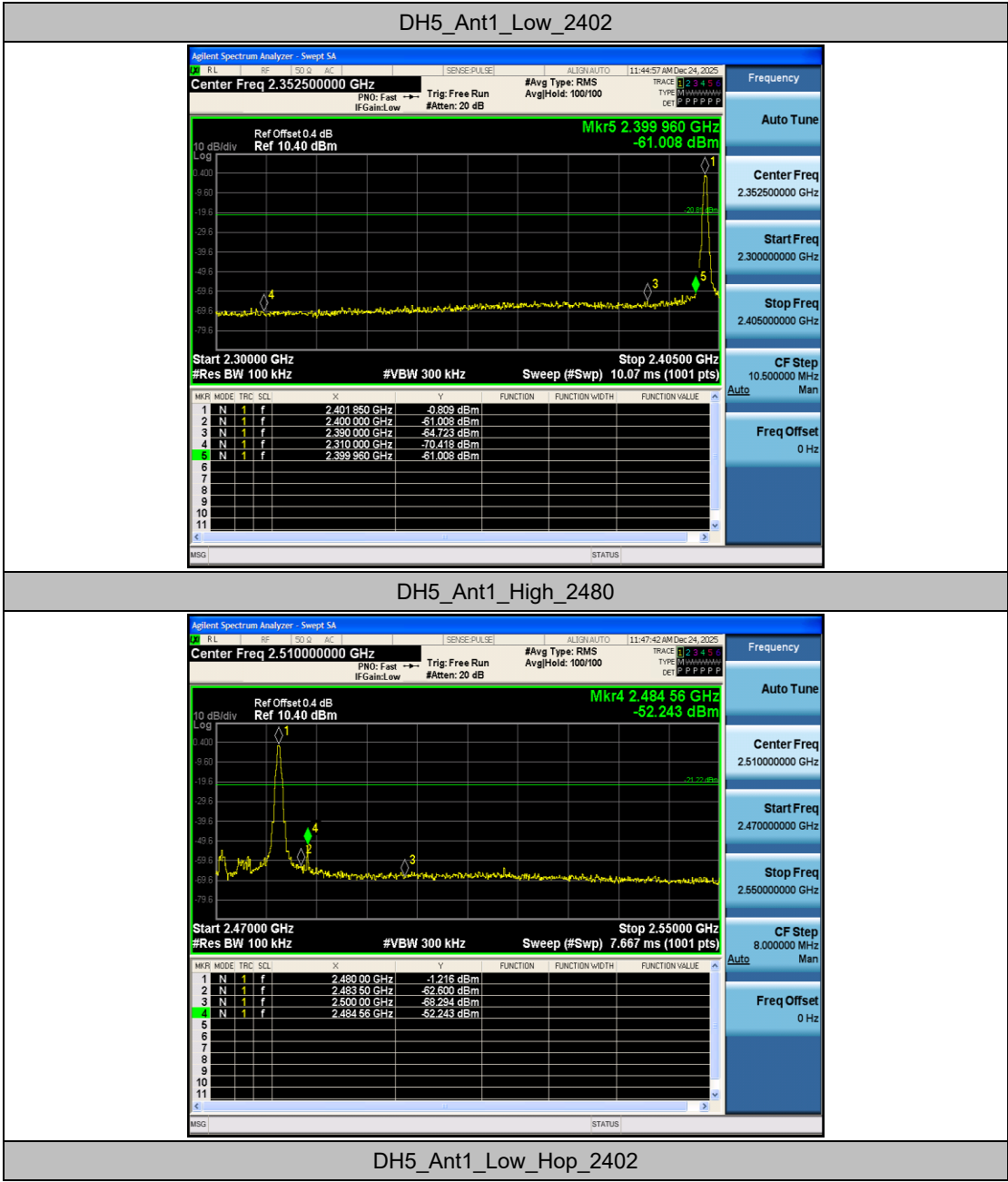


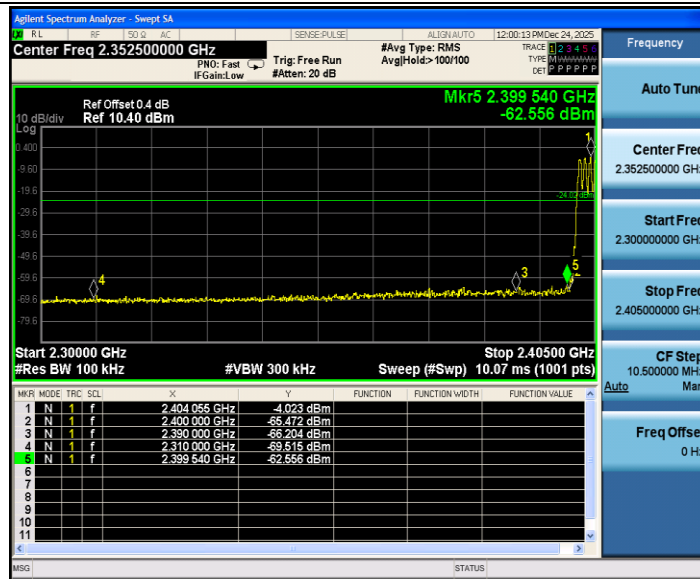
Appendix G: Band edge measurements

Test Result

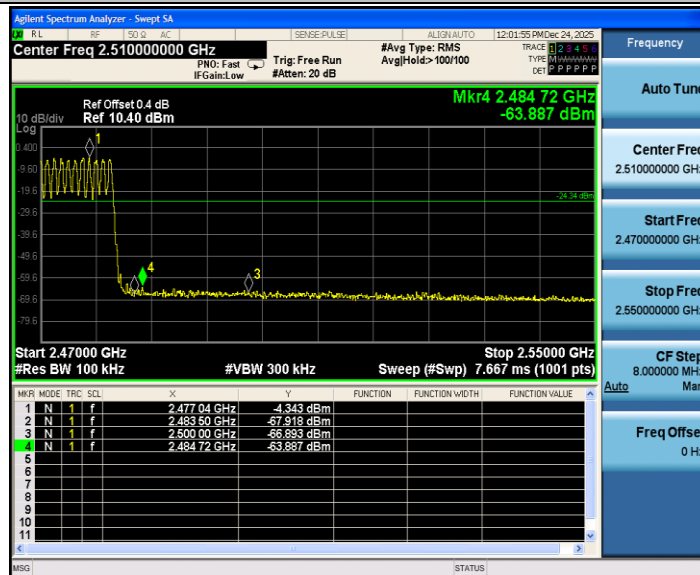
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.81	-61.01	≤-20.81	PASS
		High	2480	-1.22	-52.24	≤-21.22	PASS
		Low	Hop_2402	-4.02	-62.56	≤-24.02	PASS
		High	Hop_2480	-4.34	-63.89	≤-24.34	PASS
2DH5	Ant1	Low	2402	-4.60	-55.09	≤-24.6	PASS
		High	2480	-4.56	-57.89	≤-24.56	PASS
		Low	Hop_2402	-5.73	-62.96	≤-25.73	PASS
		High	Hop_2480	-4.77	-64.64	≤-24.77	PASS

Test Graphs

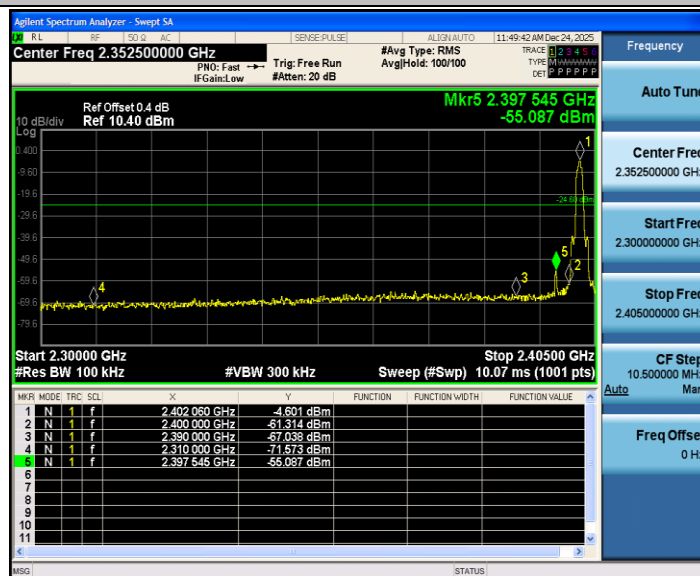




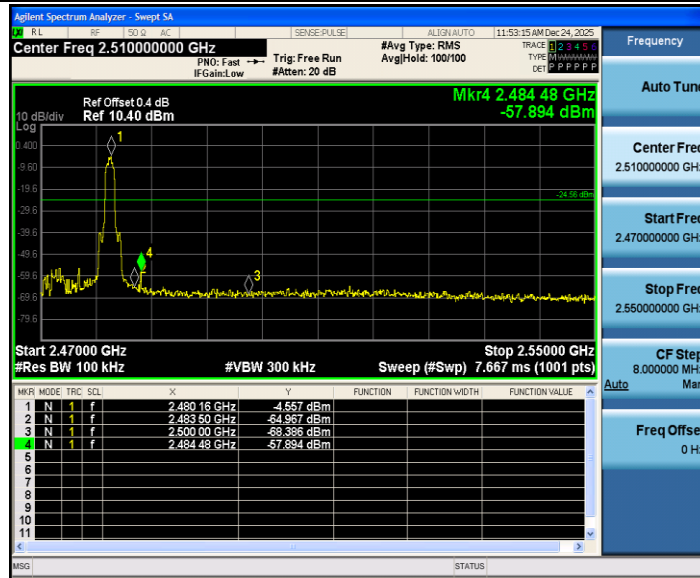
DH5_Ant1_High_Hop_2480



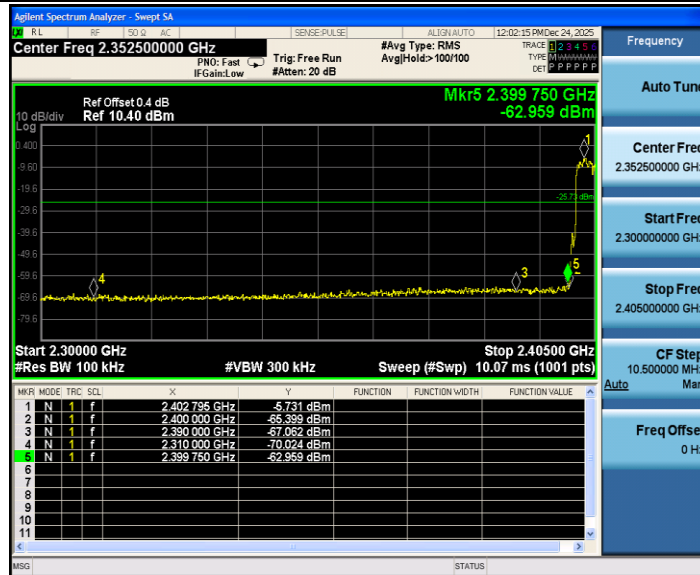
2DH5_Ant1_Low_2402



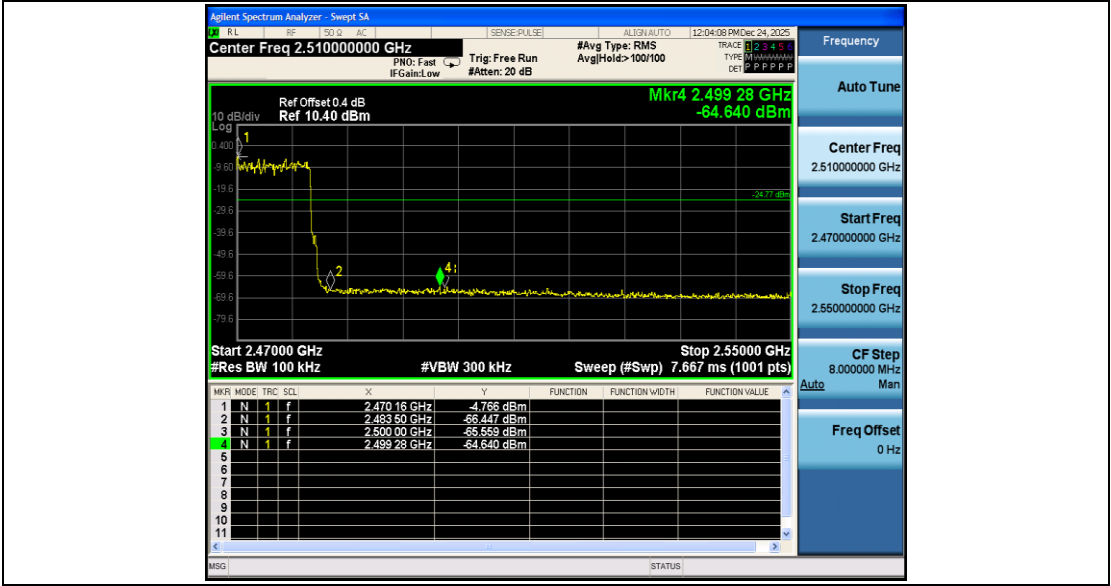
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

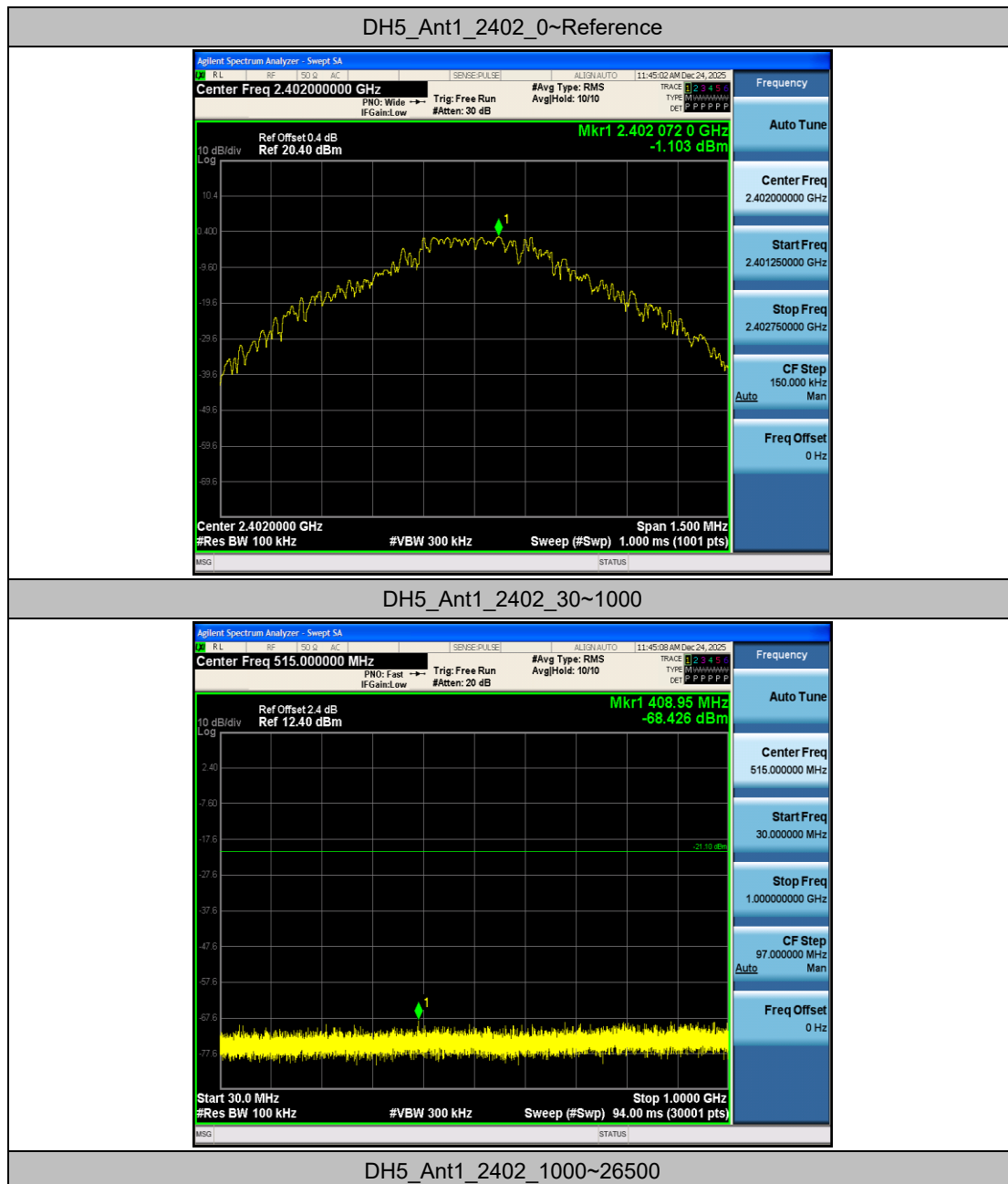


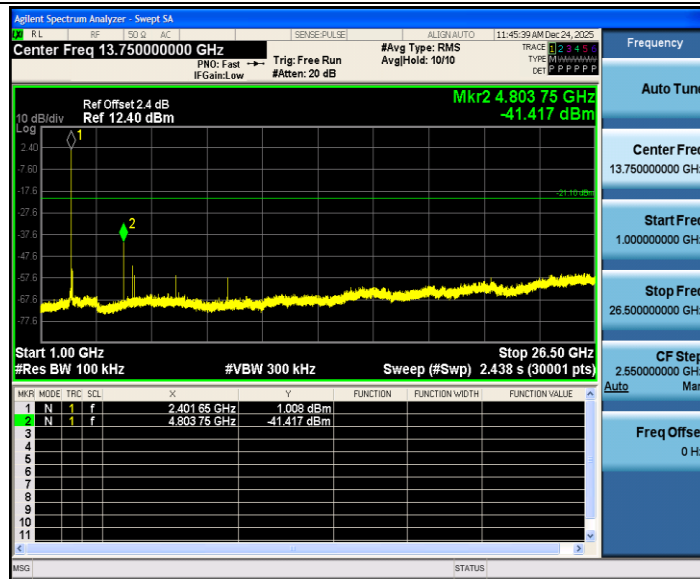
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-68.43	≤-21.1	PASS
			1000~26500	-1.10	-41.42	≤-21.1	PASS
		2441	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-68.32	≤-20.8	PASS
			1000~26500	-0.80	-44.72	≤-20.8	PASS
		2480	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-68.49	≤-21.01	PASS
			1000~26500	-1.01	-44.74	≤-21.01	PASS
2DH5	Ant1	2402	Reference	-4.76	-4.76	---	PASS
			30~1000	-4.76	-67.92	≤-24.76	PASS
			1000~26500	-4.76	-45.66	≤-24.76	PASS
		2441	Reference	-5.95	-5.95	---	PASS
			30~1000	-5.95	-67.21	≤-25.95	PASS
			1000~26500	-5.95	-50.28	≤-25.95	PASS
		2480	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-67.83	≤-23.96	PASS
			1000~26500	-3.96	-50.21	≤-23.96	PASS

Test Graphs

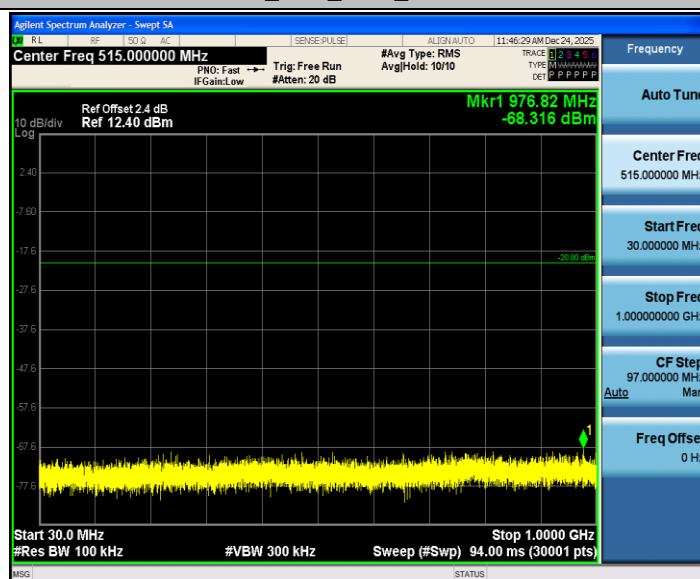




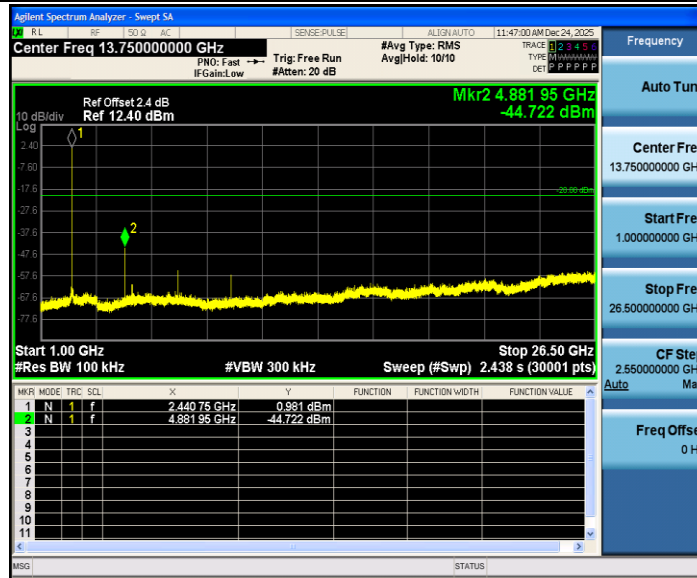
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



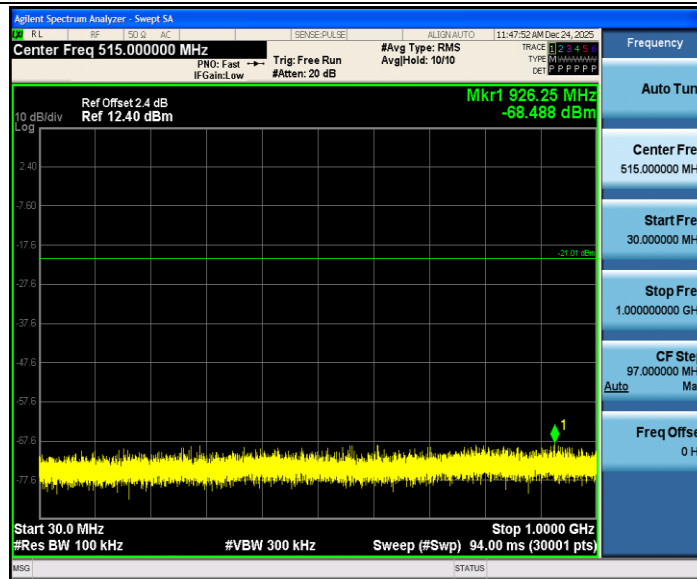
DH5_Ant1_2441_1000~26500



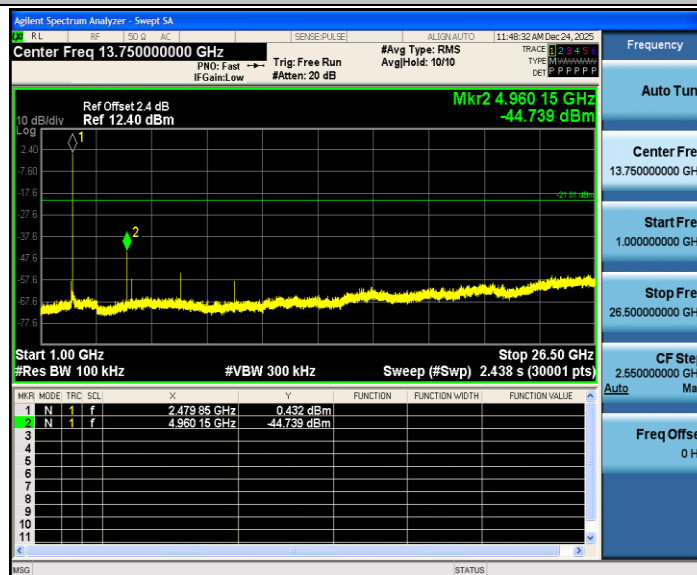
DH5_Ant1_2480_0~Reference



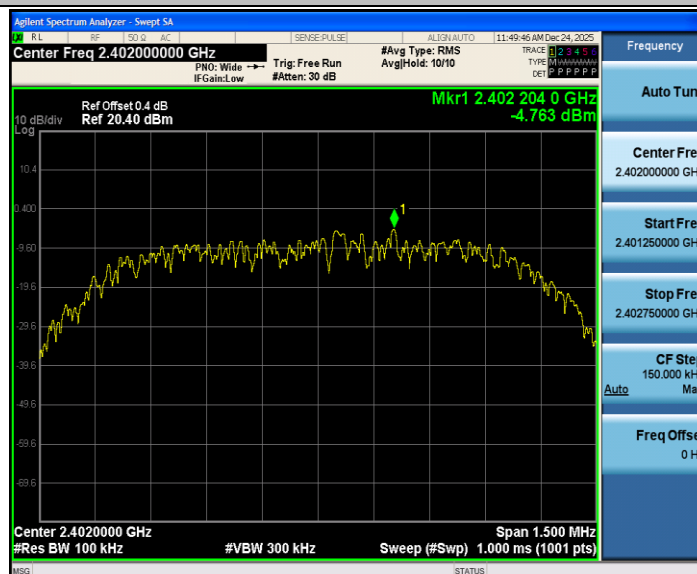
DH5_Ant1_2480_30~1000



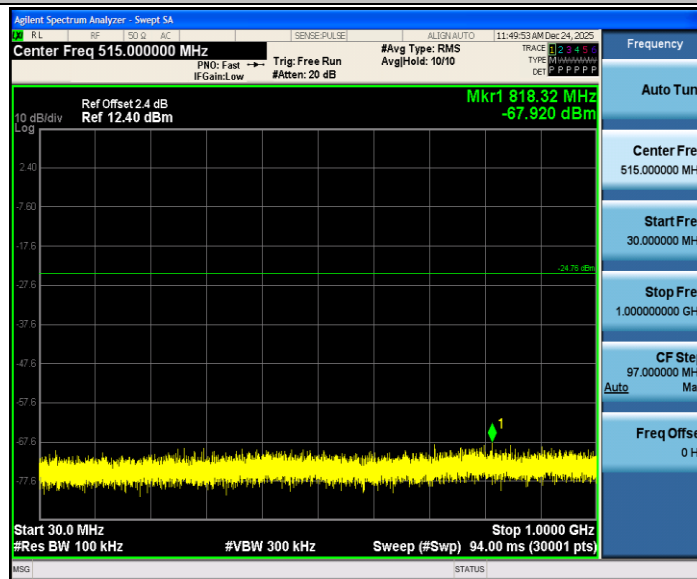
DH5_Ant1_2480_1000~26500



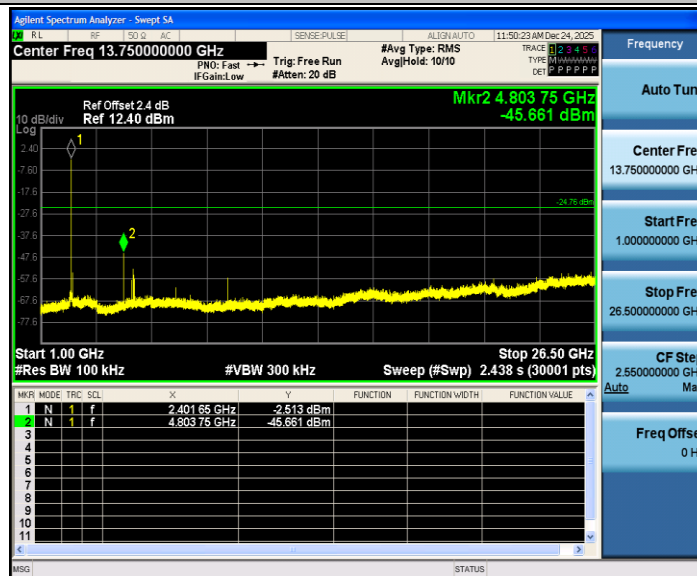
2DH5_Ant1_2402_0~Reference



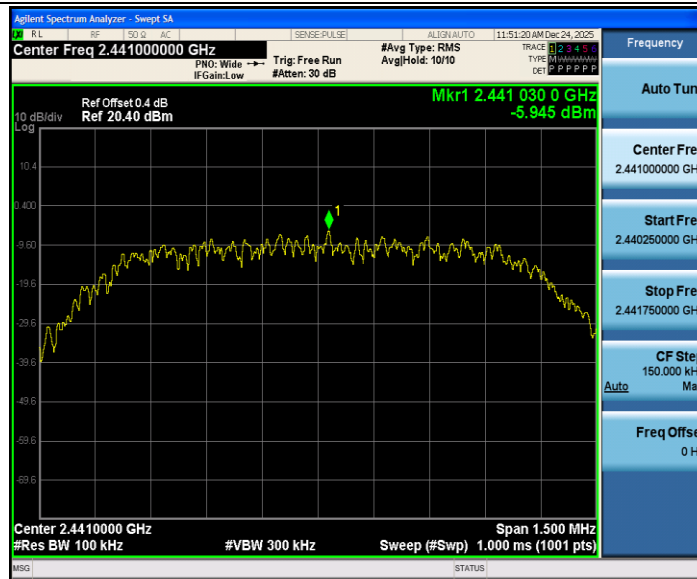
2DH5_Ant1_2402_30~1000



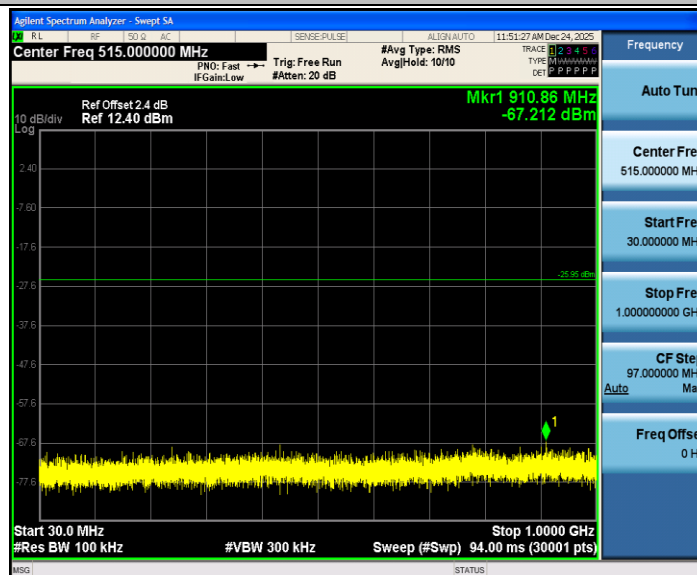
2DH5_Ant1_2402_1000~26500



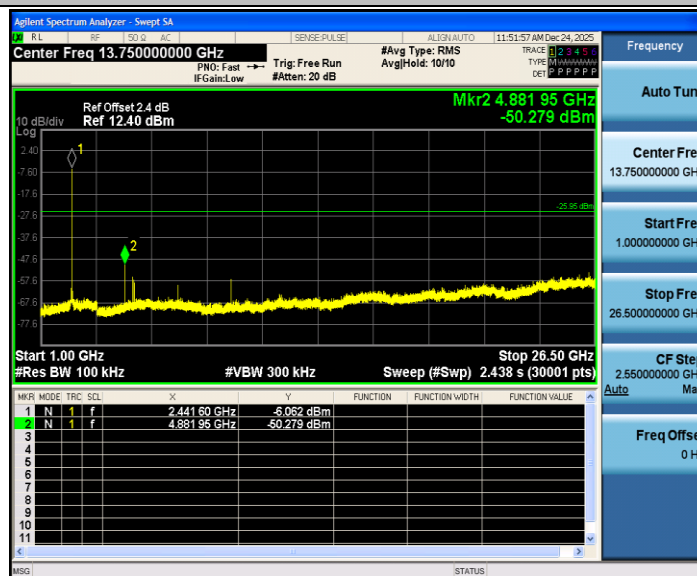
2DH5_Ant1_2441_0~Reference



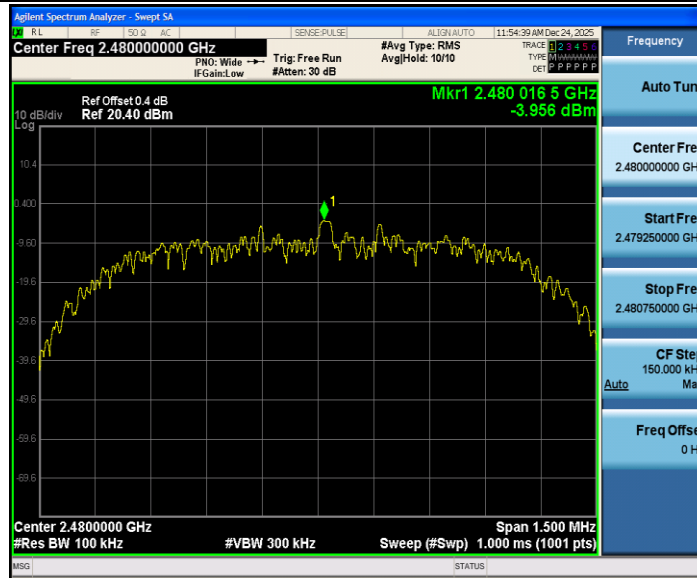
2DH5_Ant1_2441_30~1000



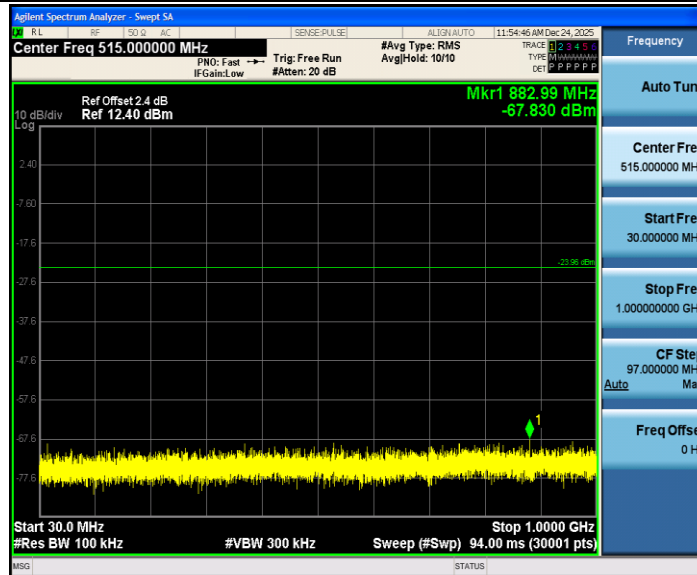
2DH5_Ant1_2441_1000~26500



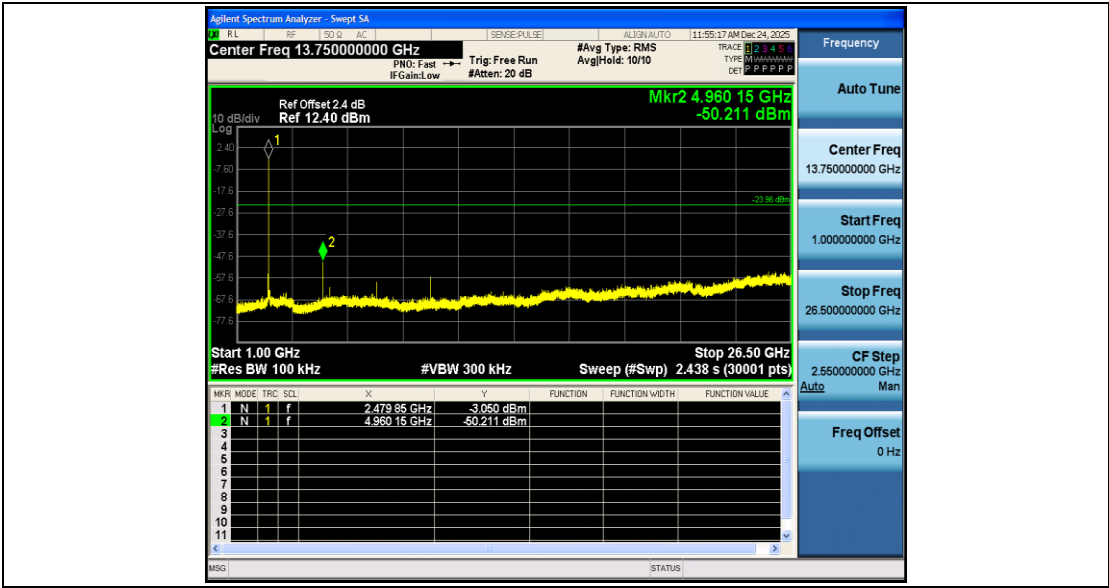
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

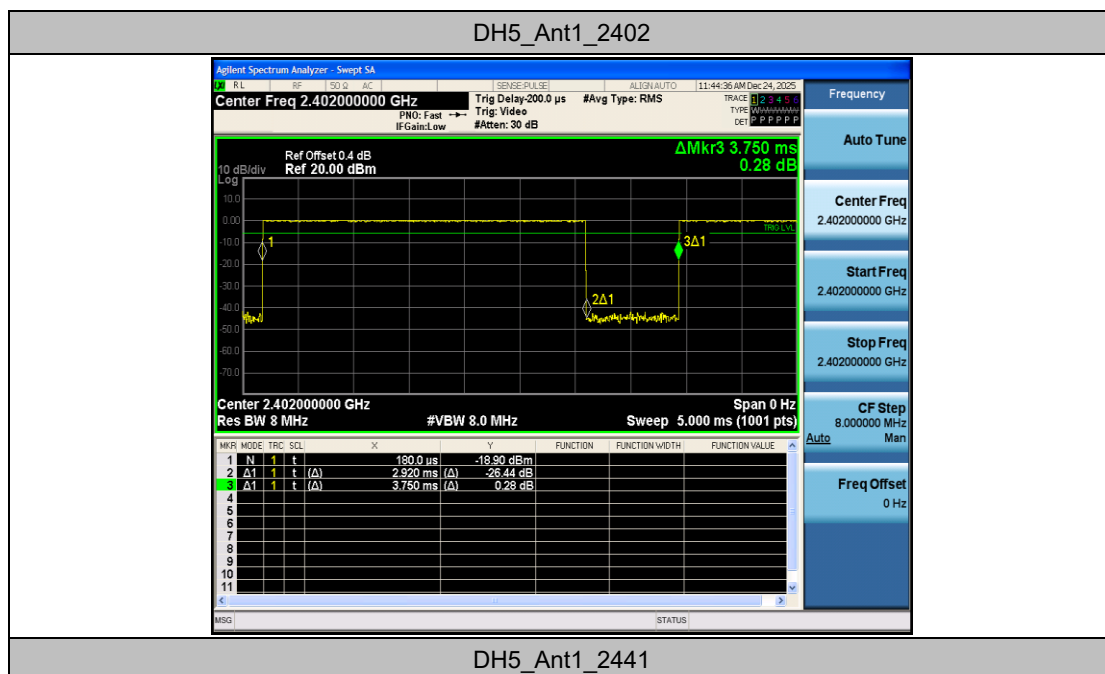


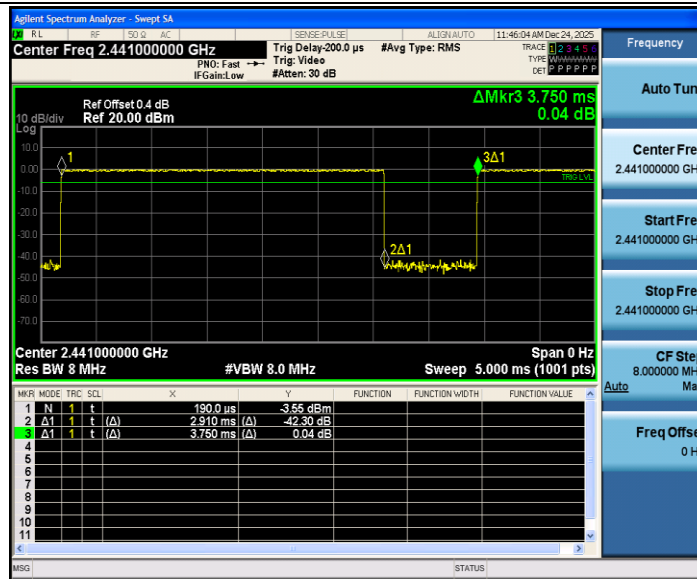
Appendix I: Duty Cycle

Test Result

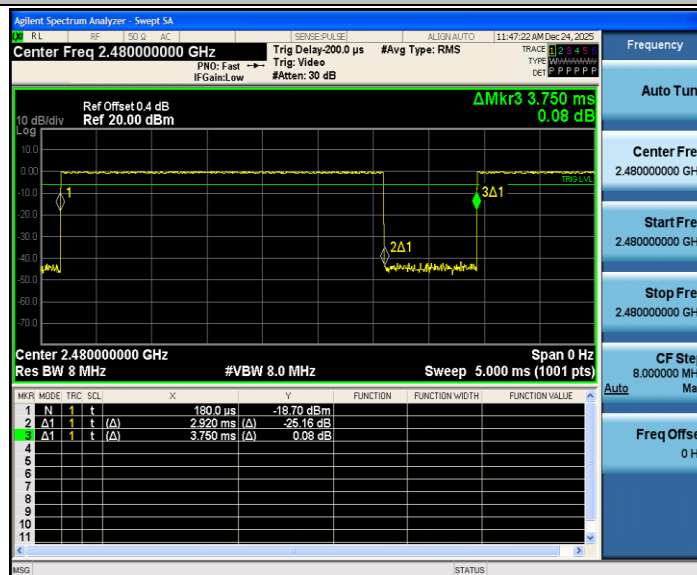
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10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

Test Graphs

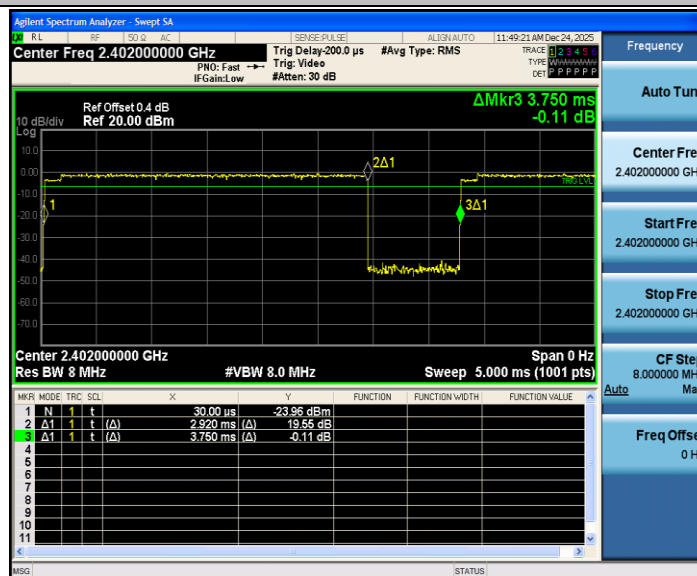




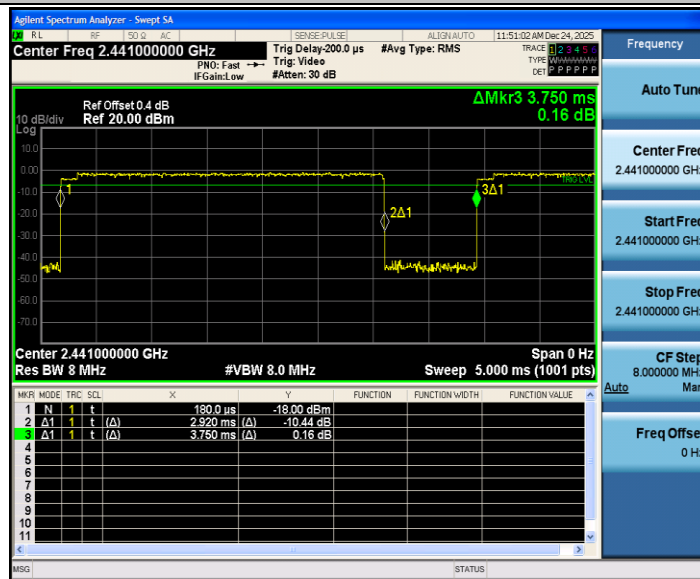
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

