

FCC Appendix RF Test Data for BT

FCC ID : 2BTGM-J21

Company : WeiZhiSheng Technology (Shenzhen)Co., Ltd.

EUT : Bluetooth Headset

Model Number : J21

Report No. : CTA25112400201

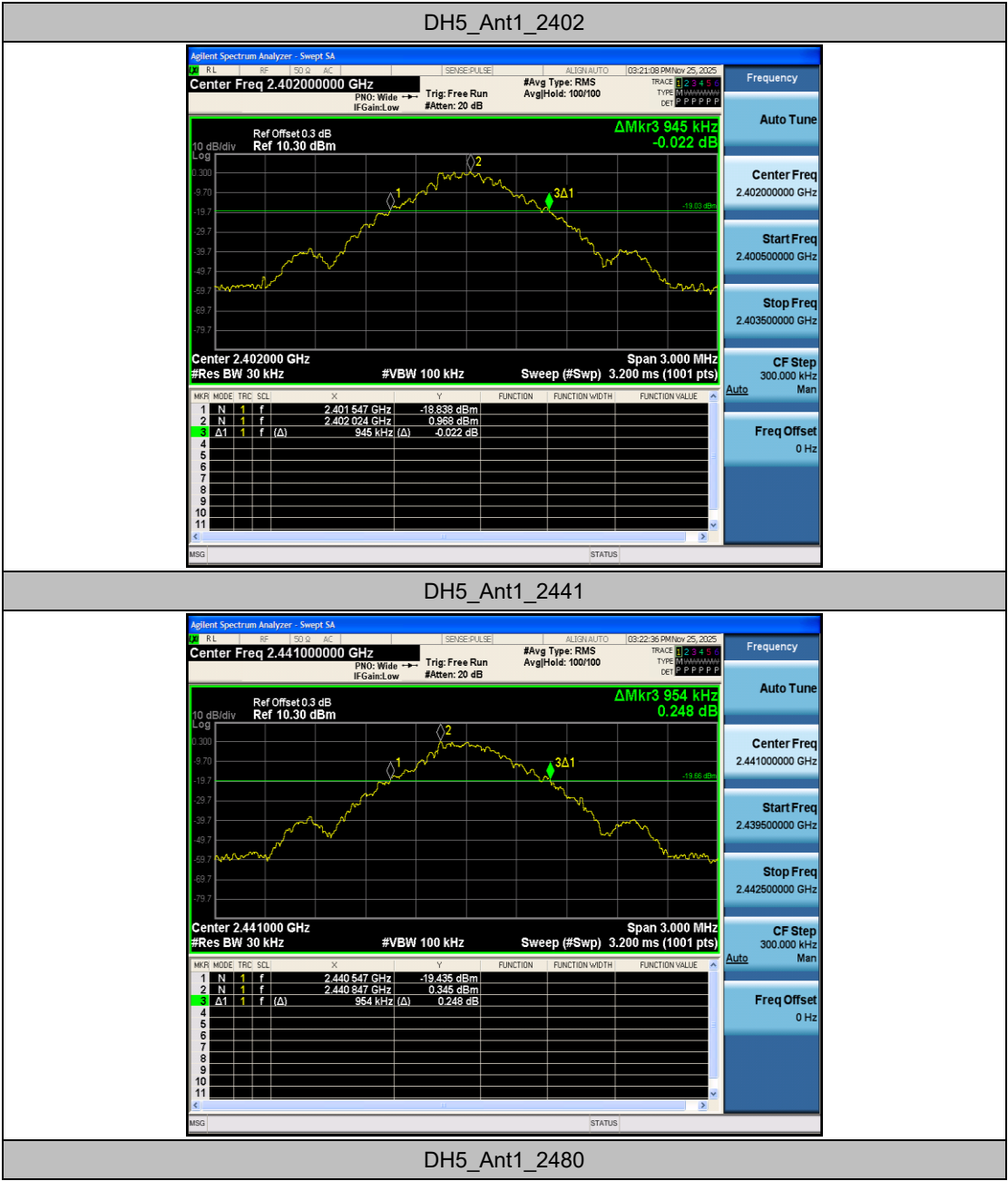
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.547	2402.492	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.287	2401.376	2402.663	---	---
		2441	1.314	2440.355	2441.669	---	---
		2480	1.314	2479.352	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

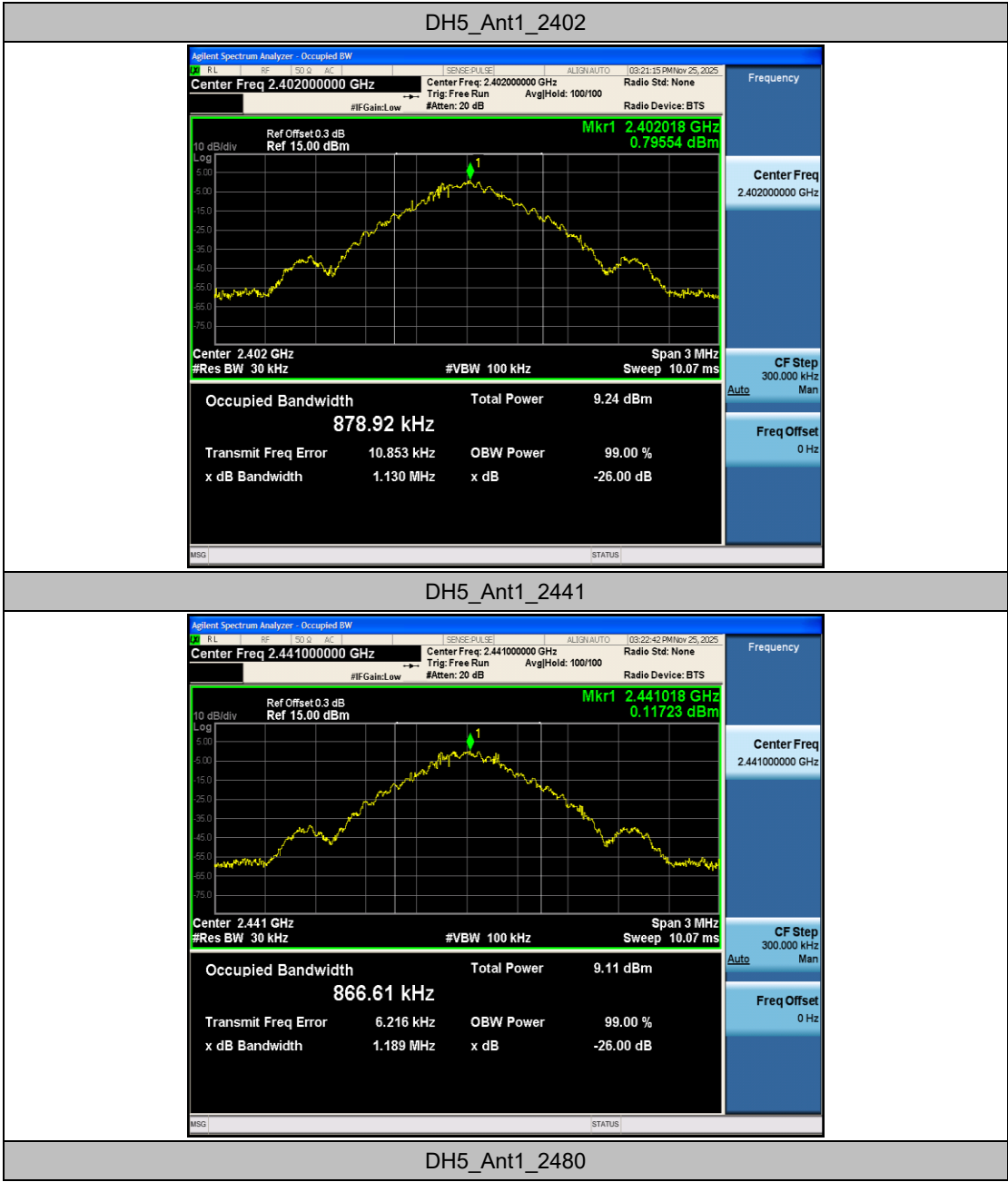


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87892	2401.5714	2402.4503	---	---
		2441	0.86661	2440.5729	2441.4395	---	---
		2480	0.87276	2479.5729	2480.4456	---	---
2DH5	Ant1	2402	1.1930	2401.4132	2402.6062	---	---
		2441	1.1875	2440.4173	2441.6048	---	---
		2480	1.1964	2479.4119	2480.6083	---	---

Test Graphs

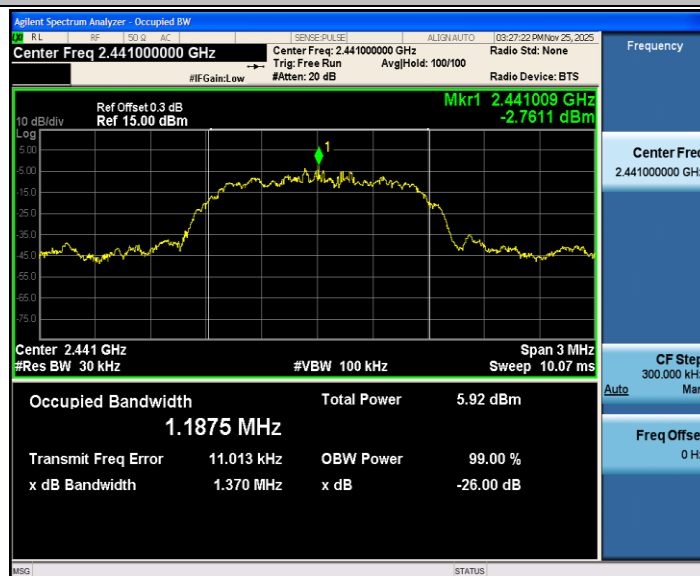




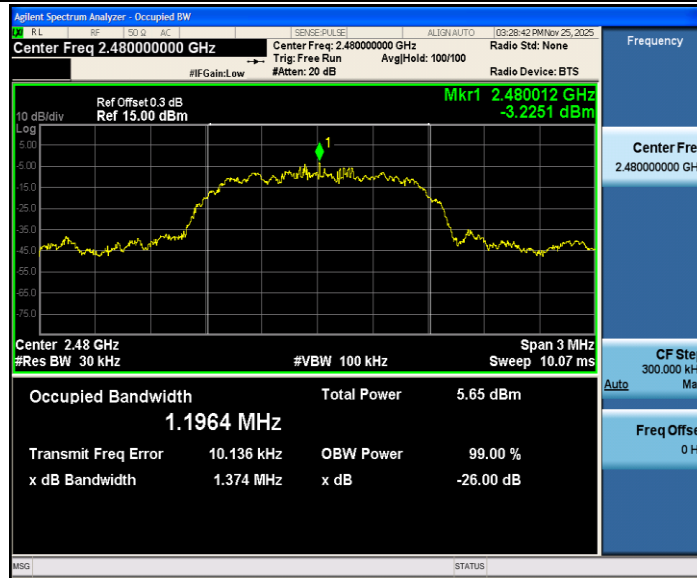
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Left:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.33	≤20.97	PASS
		2441	3.06	≤20.97	PASS
		2480	3.00	≤20.97	PASS
2DH5	Ant1	2402	2.64	≤20.97	PASS
		2441	2.37	≤20.97	PASS
		2480	2.31	≤20.97	PASS

Right:

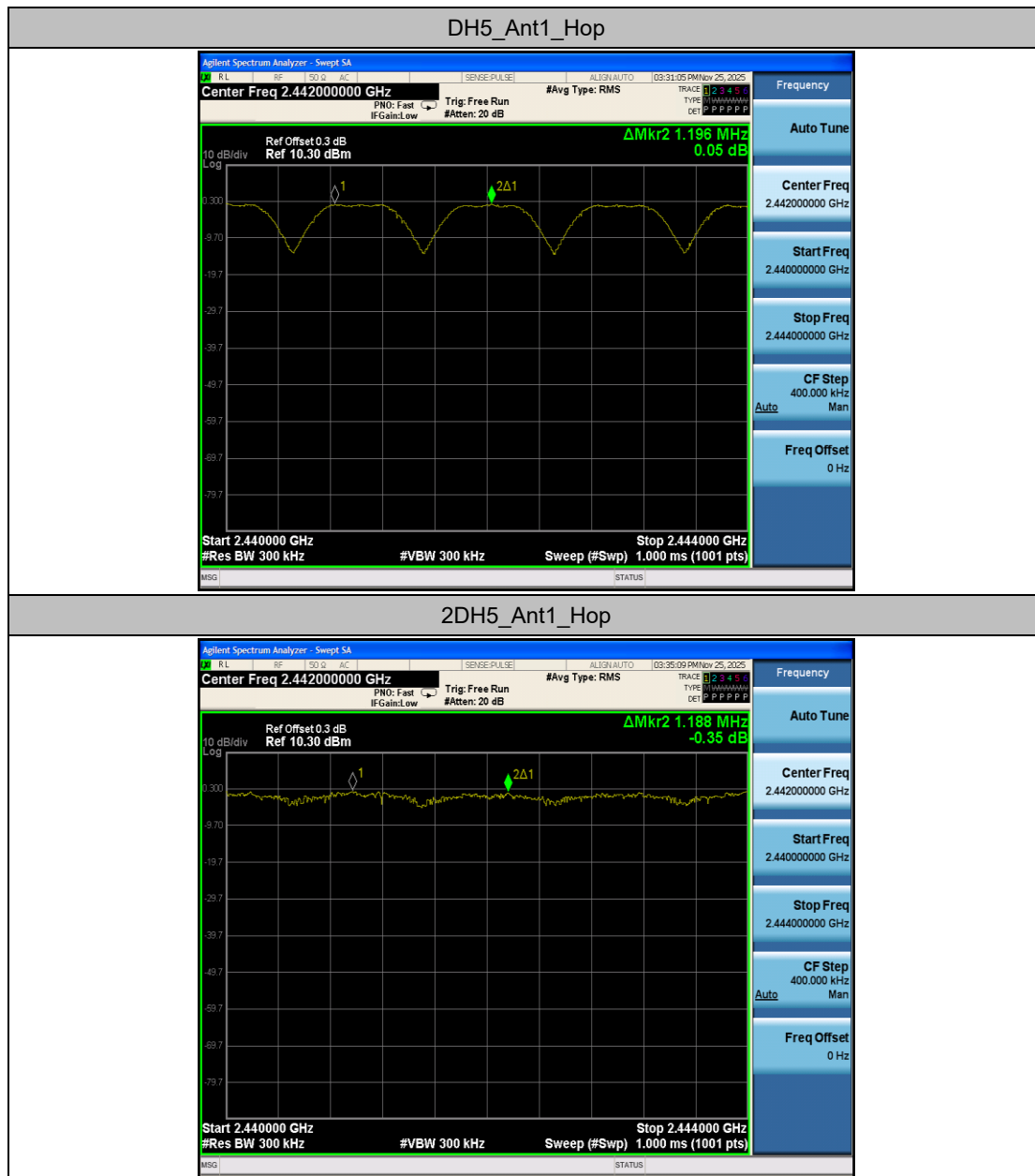
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.89	≤20.97	PASS
		2441	2.67	≤20.97	PASS
		2480	3.25	≤20.97	PASS
2DH5	Ant1	2402	2.15	≤20.97	PASS
		2441	1.98	≤20.97	PASS
		2480	2.08	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.196	≥ 0.954	PASS
2DH5	Ant1	Hop	1.188	≥ 0.876	PASS

Test Graphs

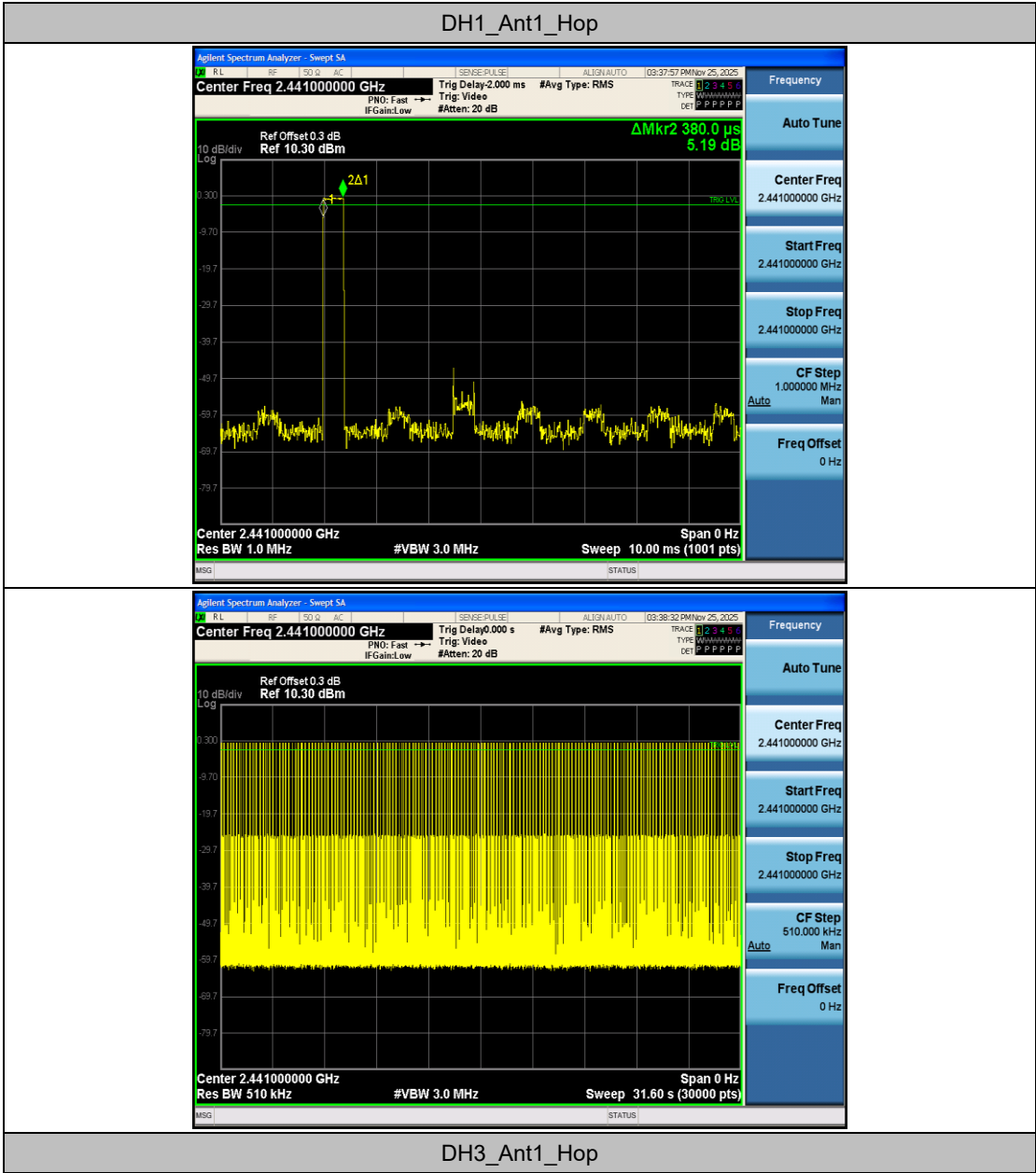


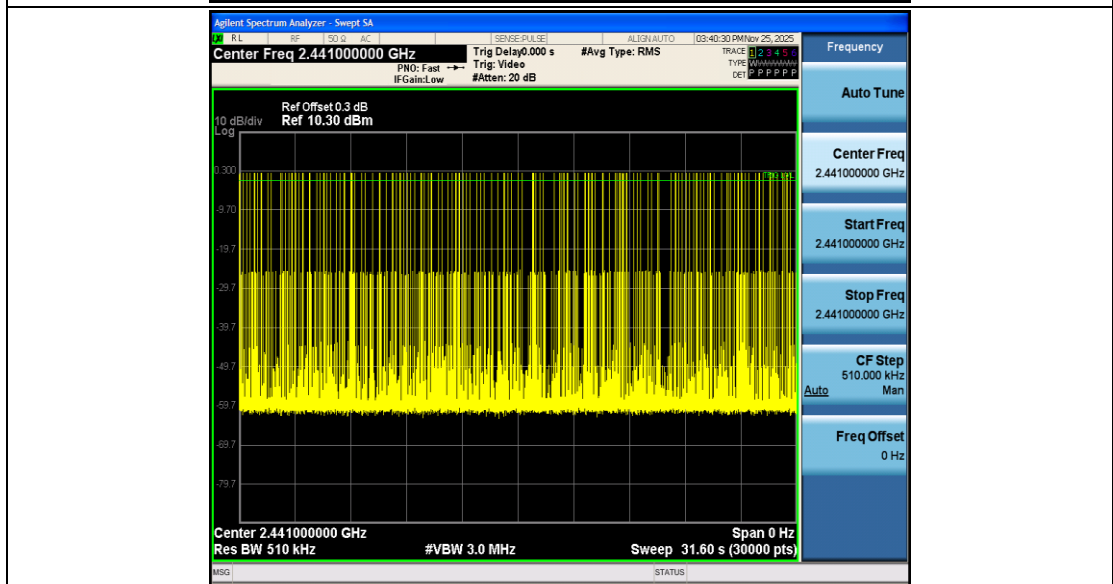
Appendix E: Time of occupancy

Test Result

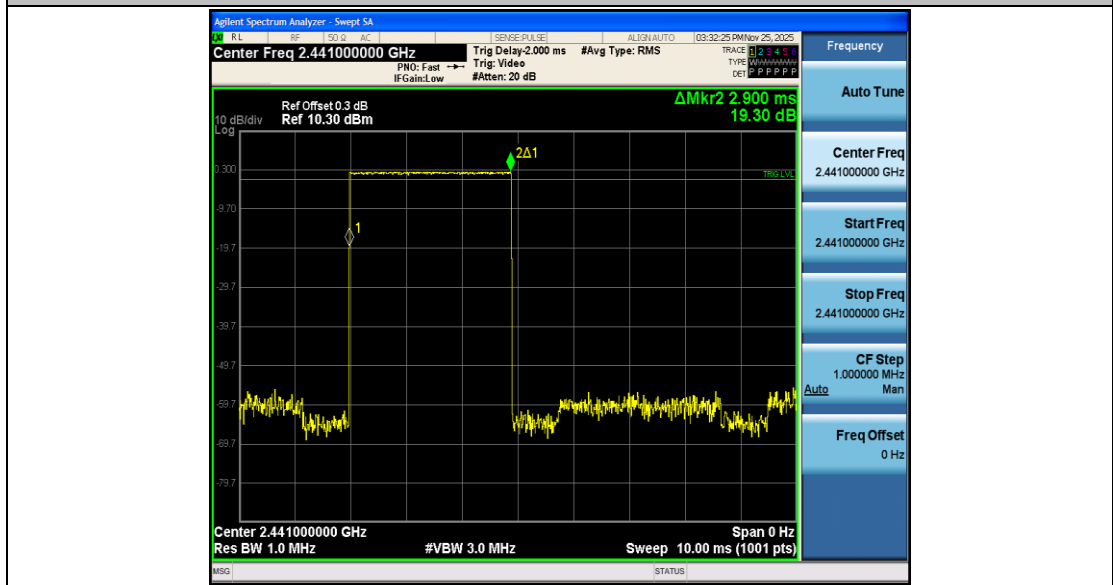
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.640	162	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.900	121	0.351	≤0.4	PASS
2DH1	Ant1	Hop	0.390	314	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.640	162	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.900	107	0.31	≤0.4	PASS

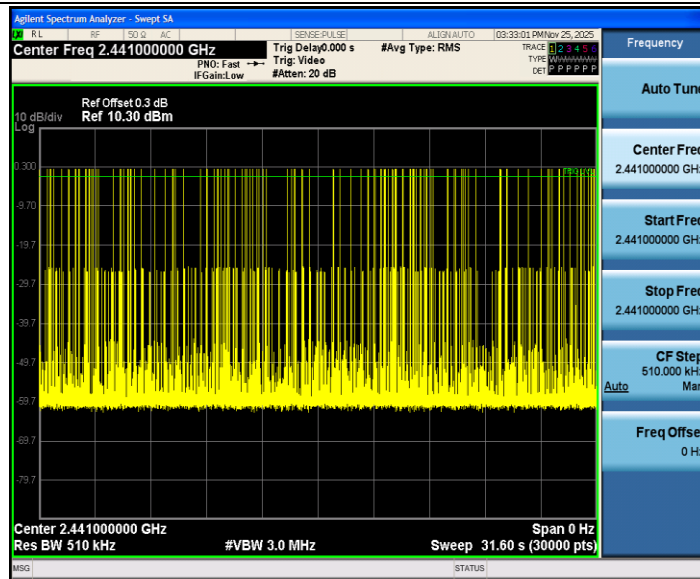
Test Graphs



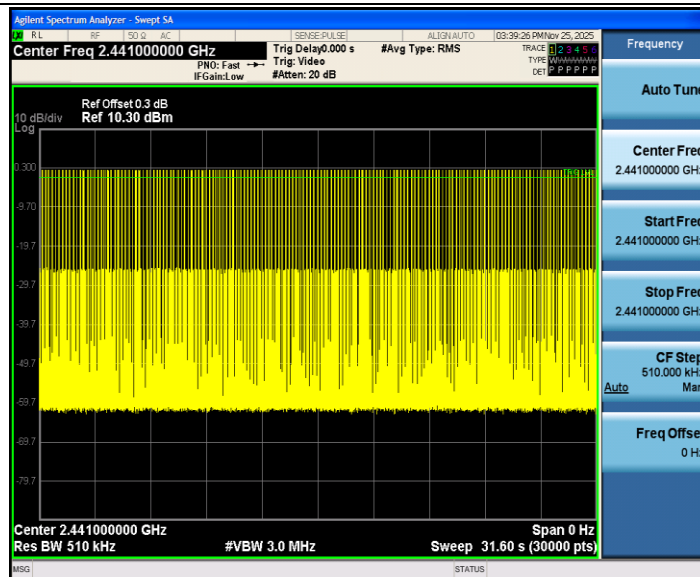
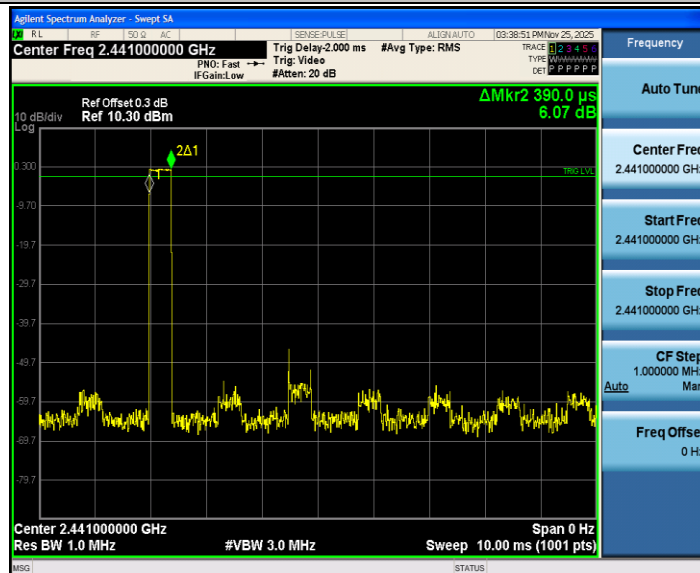


DH5_Ant1_Hop

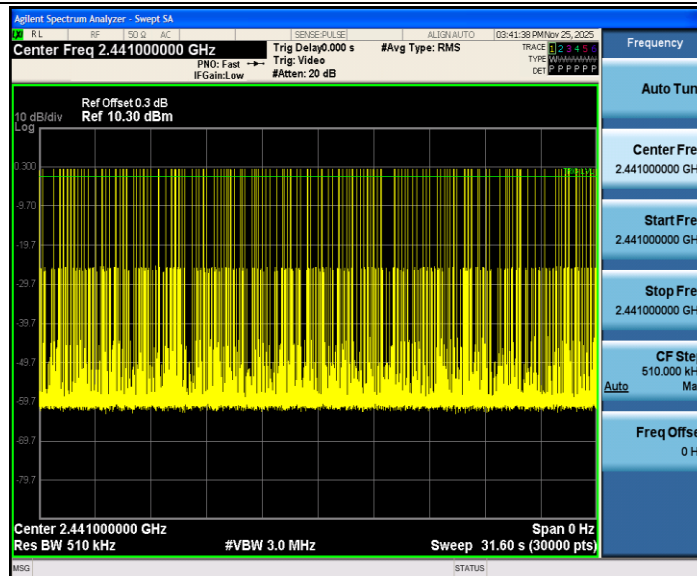
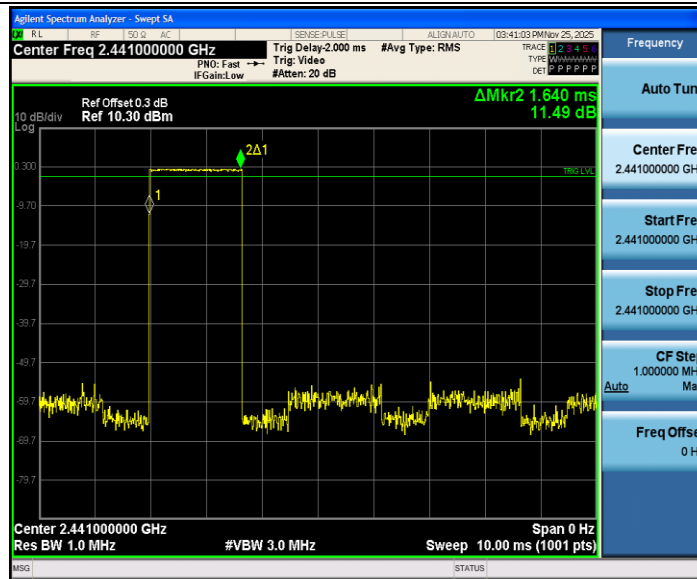




2DH1_Ant1_Hop

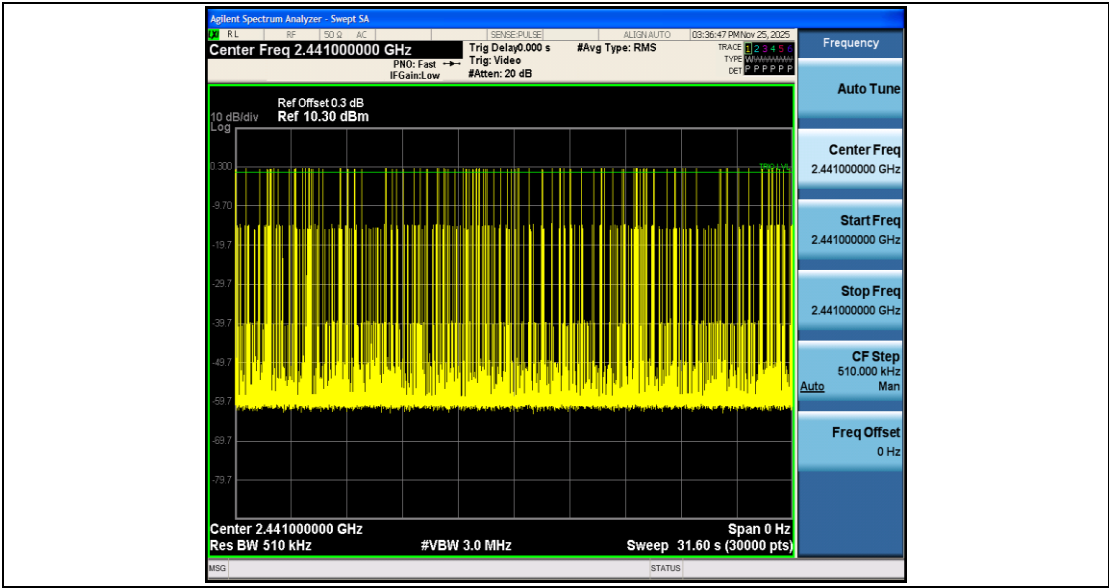


2DH3_Ant1_Hop



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

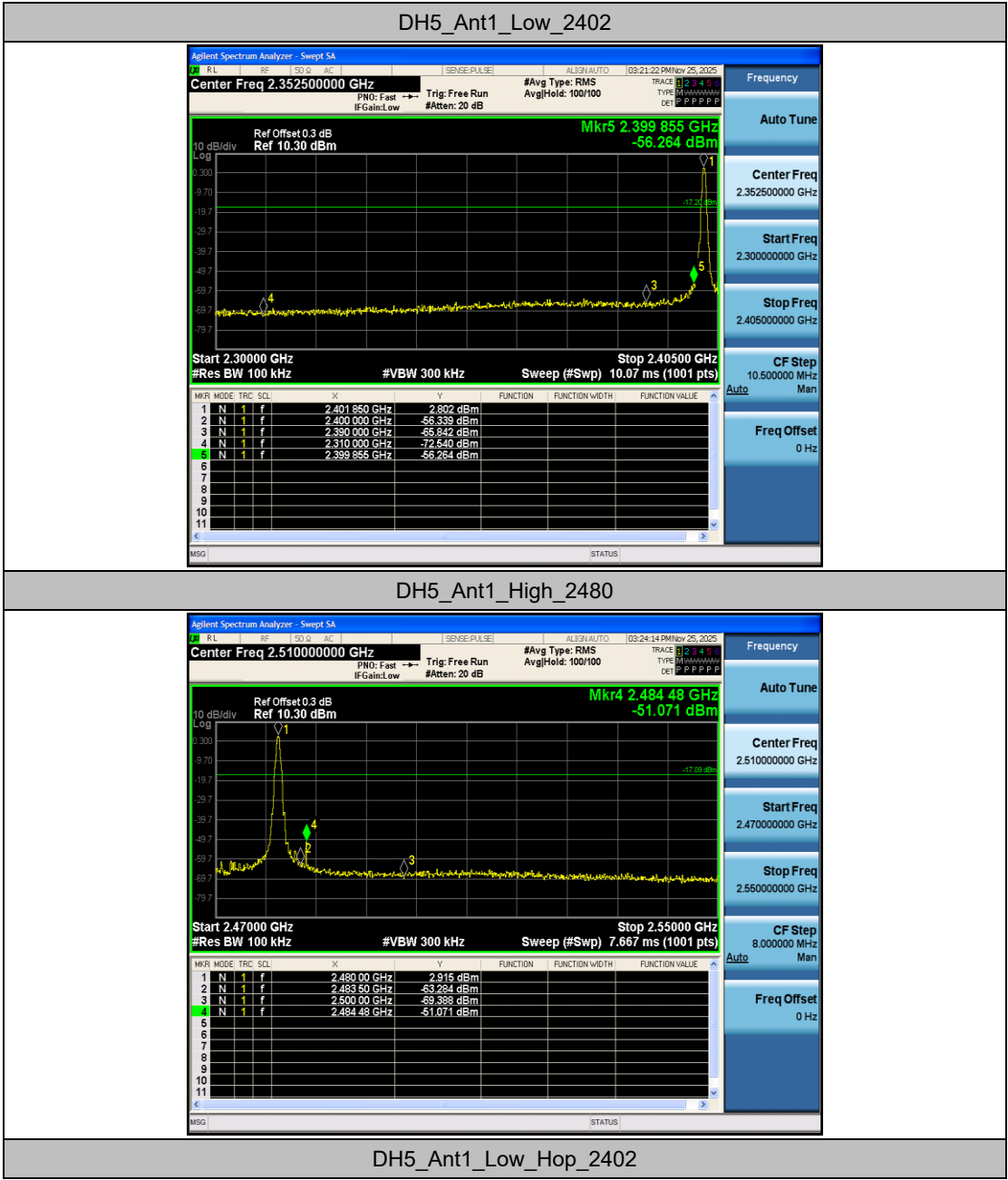


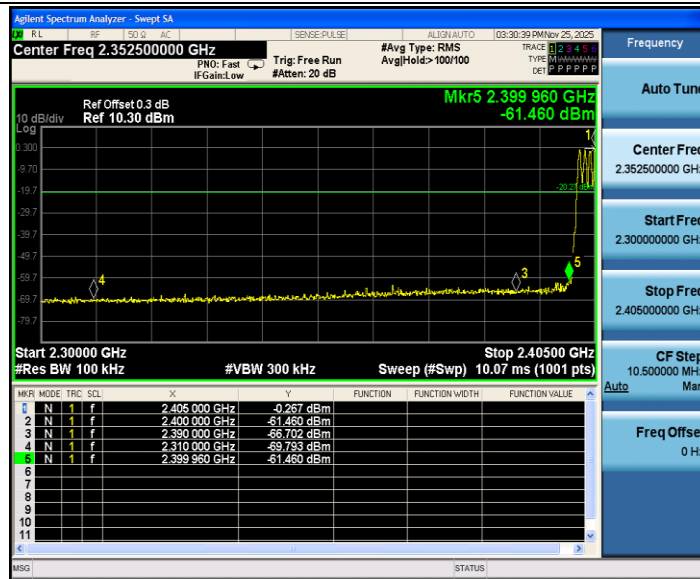
Appendix G: Band edge measurements

Test Result

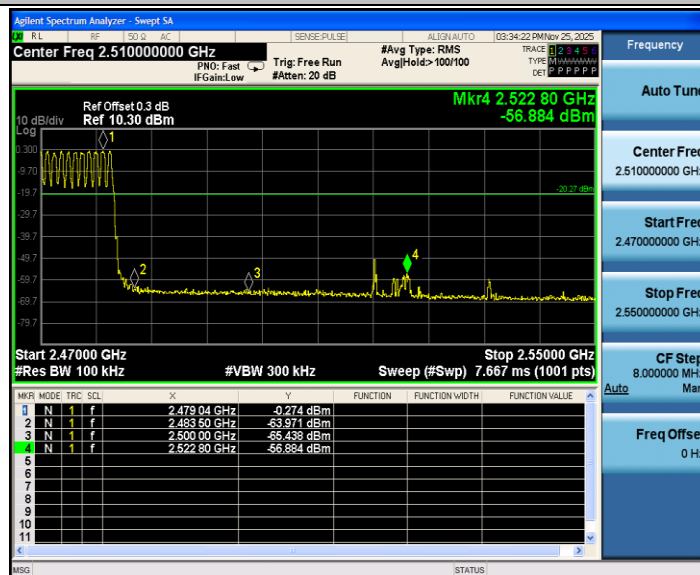
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.80	-56.26	≤ -17.2	PASS
		High	2480	2.92	-51.07	≤ -17.09	PASS
		Low	Hop_2402	-0.27	-61.46	≤ -20.27	PASS
		High	Hop_2480	-0.27	-56.88	≤ -20.27	PASS
2DH5	Ant1	Low	2402	-0.67	-51.84	≤ -20.67	PASS
		High	2480	-1.62	-58.29	≤ -21.62	PASS
		Low	Hop_2402	-3.25	-53.03	≤ -23.25	PASS
		High	Hop_2480	-1.02	-63.44	≤ -21.02	PASS

Test Graphs

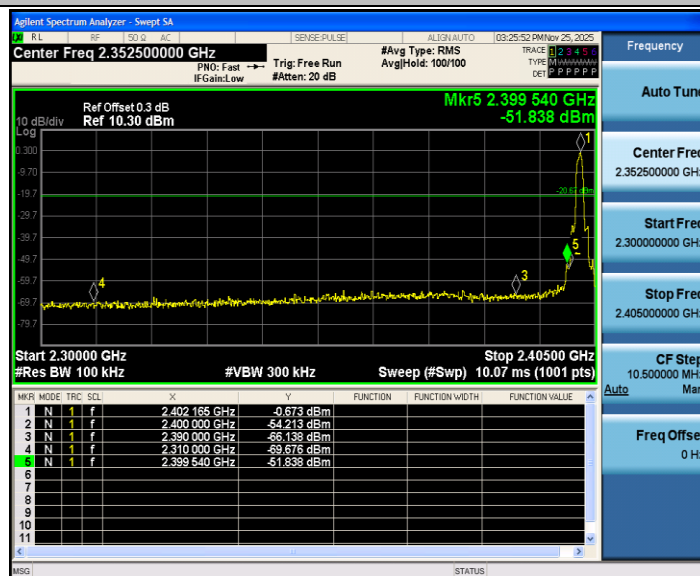




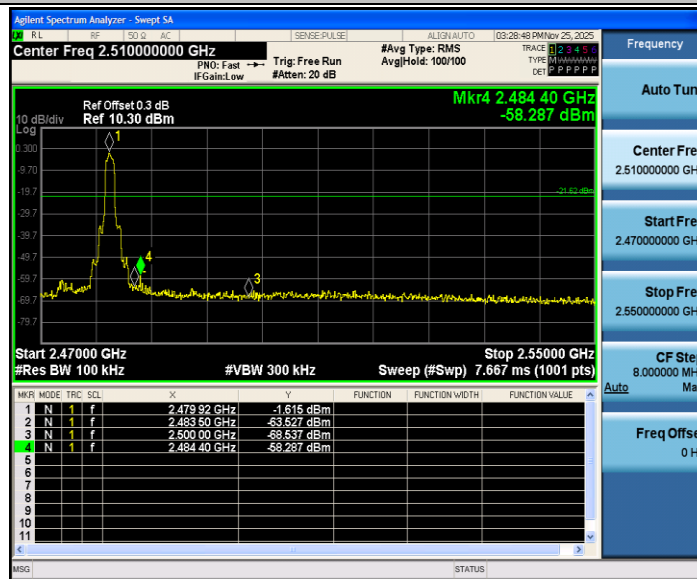
DH5_Ant1_High_Hop_2480



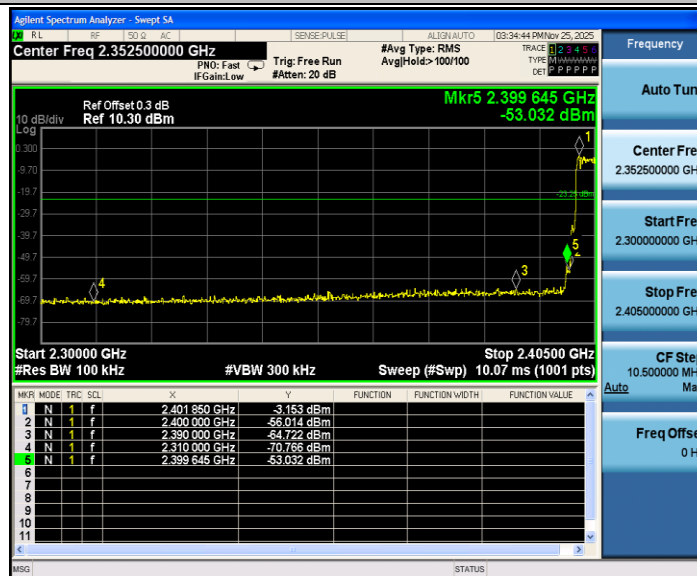
2DH5_Ant1_Low_2402



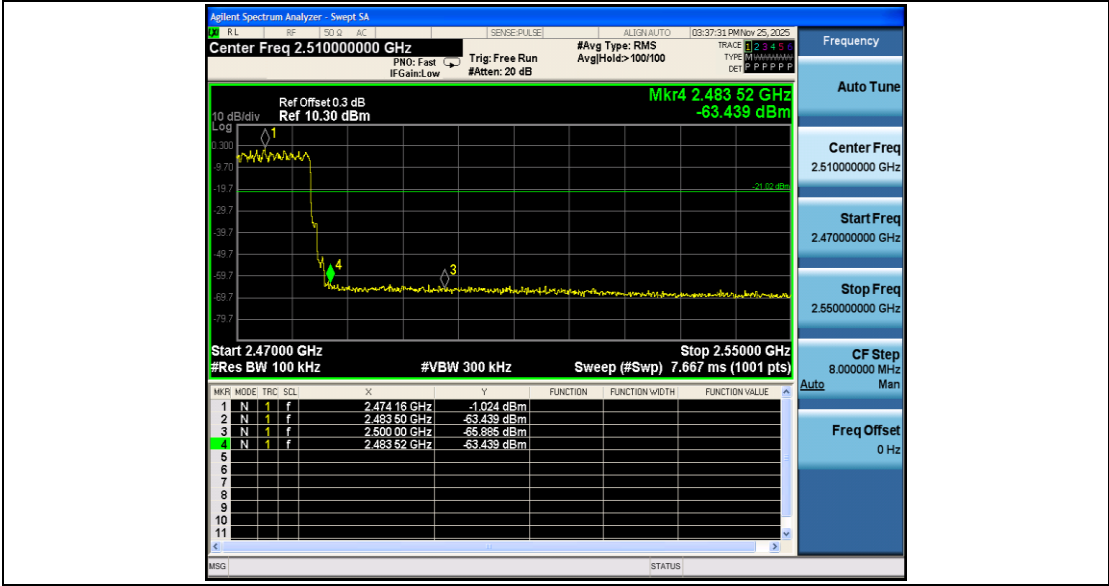
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

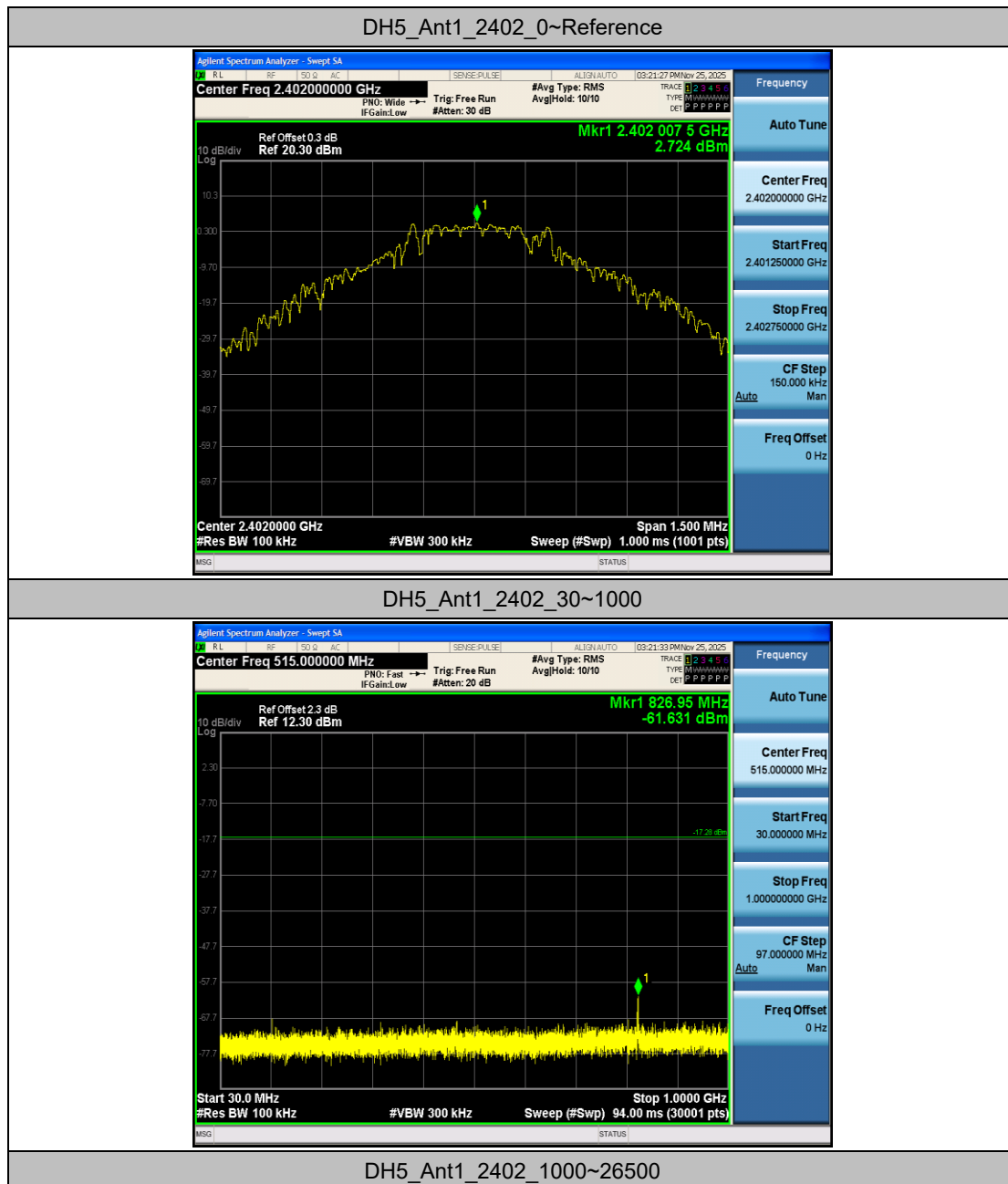


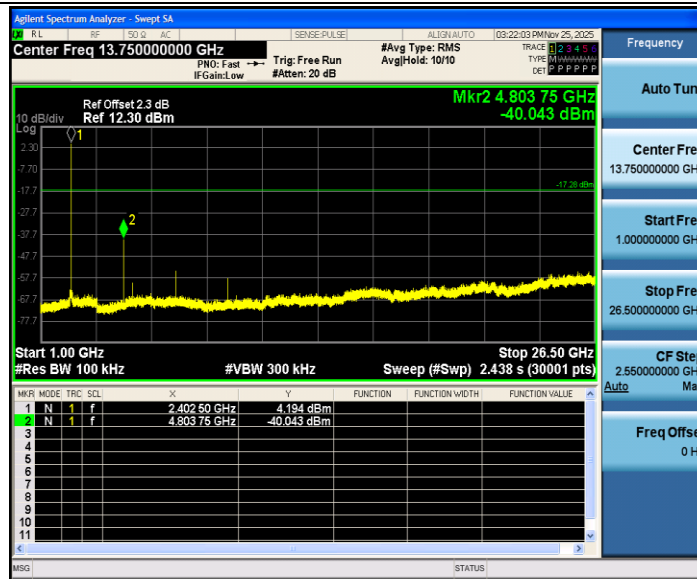
Appendix H: Conducted Spurious Emission

Test Result

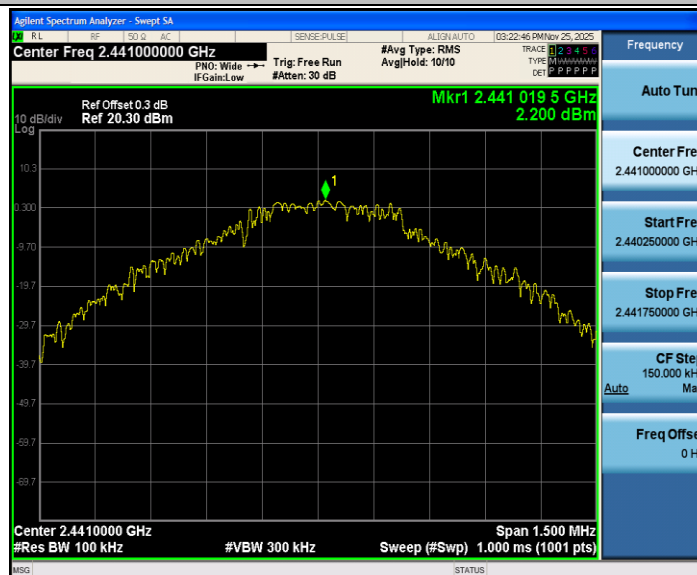
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.72	2.72	---	PASS
			30~1000	2.72	-61.63	≤-17.28	PASS
			1000~26500	2.72	-40.04	≤-17.28	PASS
		2441	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-68.38	≤-17.8	PASS
			1000~26500	2.20	-39.48	≤-17.8	PASS
		2480	Reference	2.41	2.41	---	PASS
			30~1000	2.41	-67.87	≤-17.59	PASS
			1000~26500	2.41	-40.42	≤-17.59	PASS
2DH5	Ant1	2402	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-67.73	≤-21.31	PASS
			1000~26500	-1.31	-42.87	≤-21.31	PASS
		2441	Reference	-3.07	-3.07	---	PASS
			30~1000	-3.07	-68.84	≤-23.07	PASS
			1000~26500	-3.07	-46.31	≤-23.07	PASS
		2480	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-68.43	≤-22.03	PASS
			1000~26500	-2.03	-41.5	≤-22.03	PASS

Test Graphs

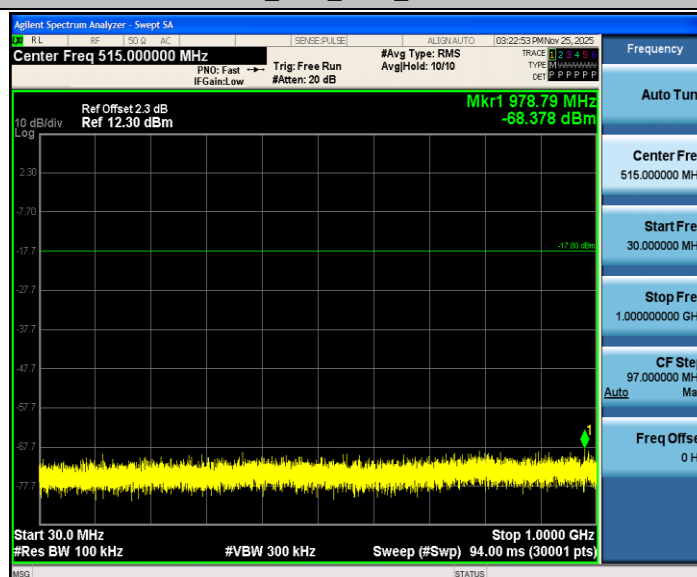




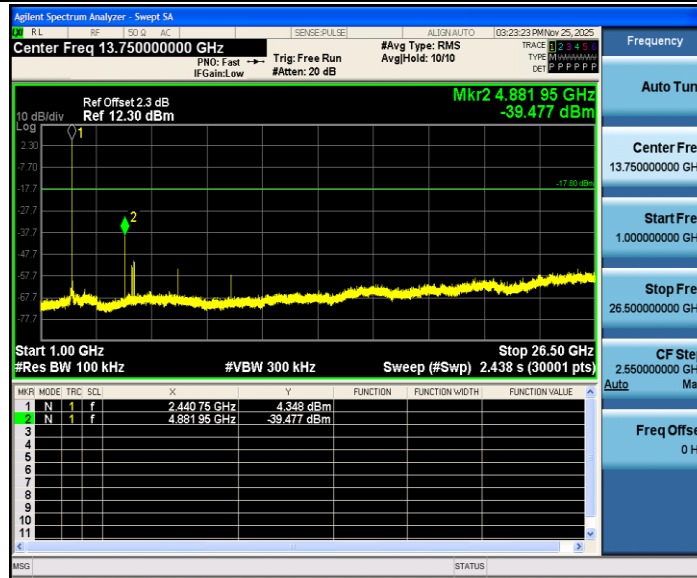
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



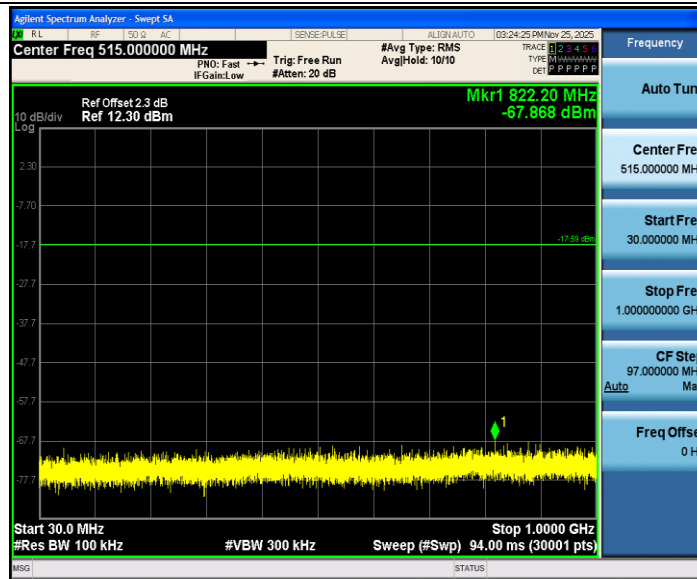
DH5_Ant1_2441_1000~26500



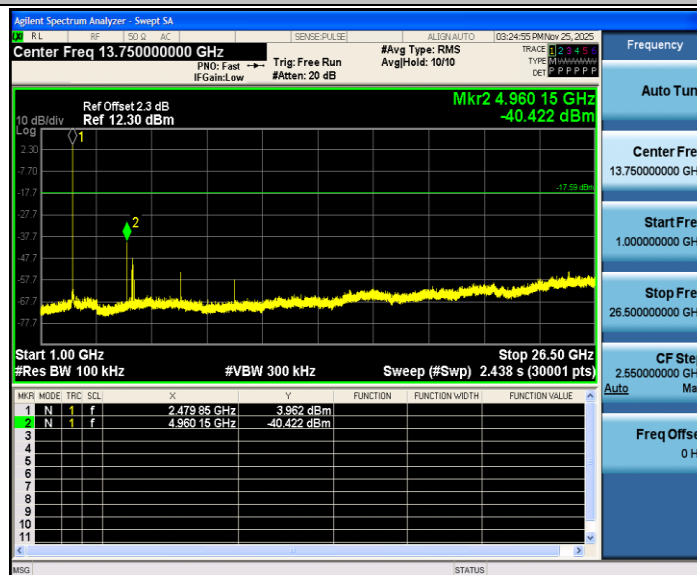
DH5_Ant1_2480_0~Reference



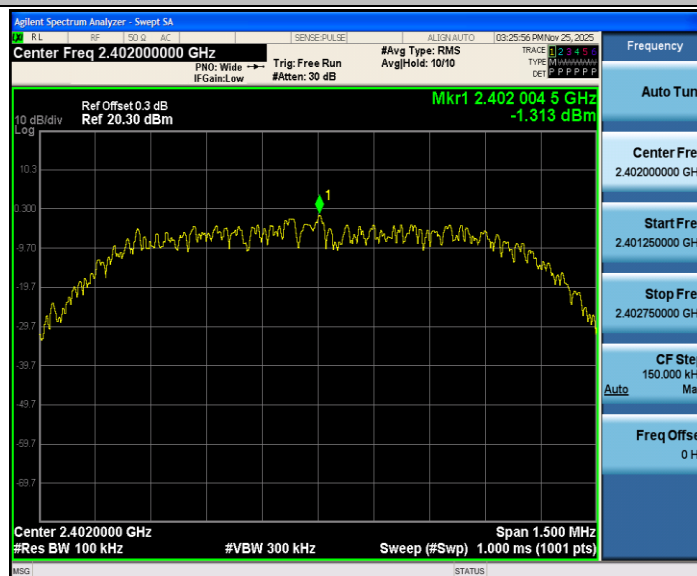
DH5_Ant1_2480_30~1000



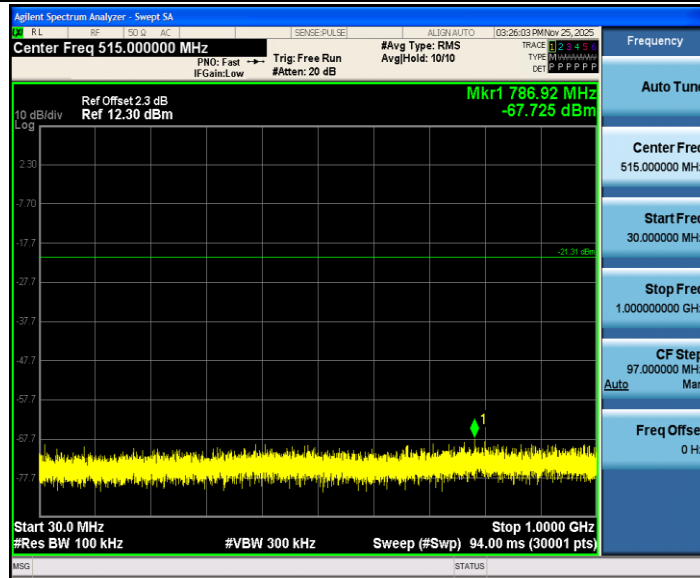
DH5_Ant1_2480_1000~26500



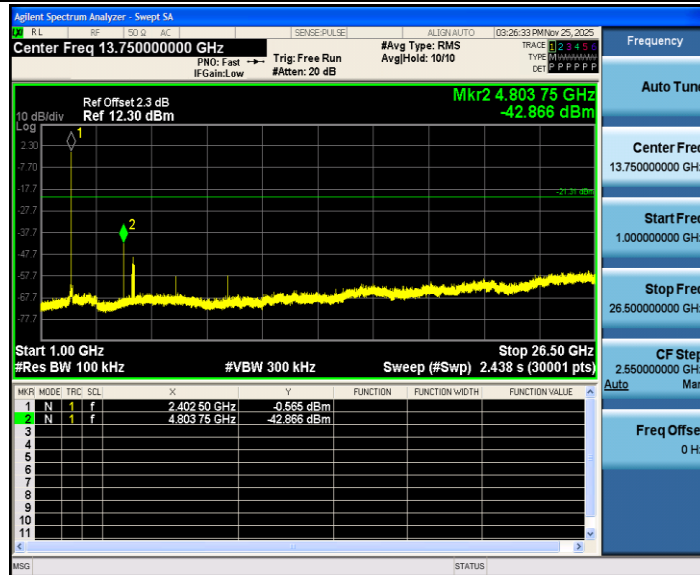
2DH5_Ant1_2402_0~Reference



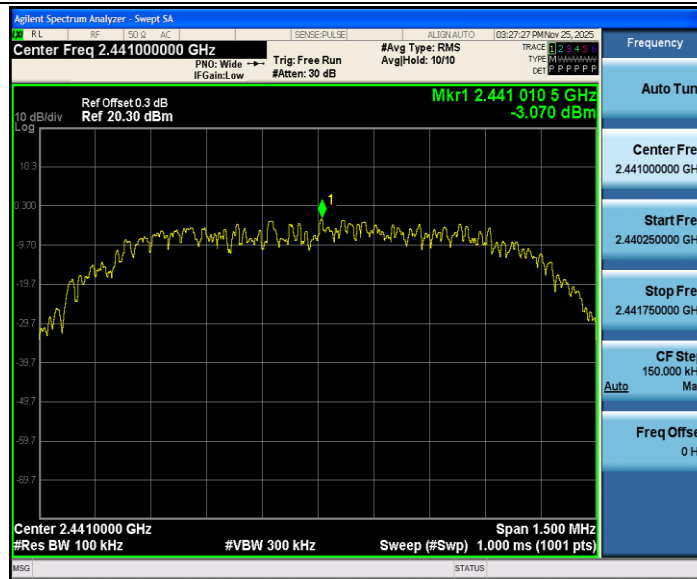
2DH5_Ant1_2402_30~1000



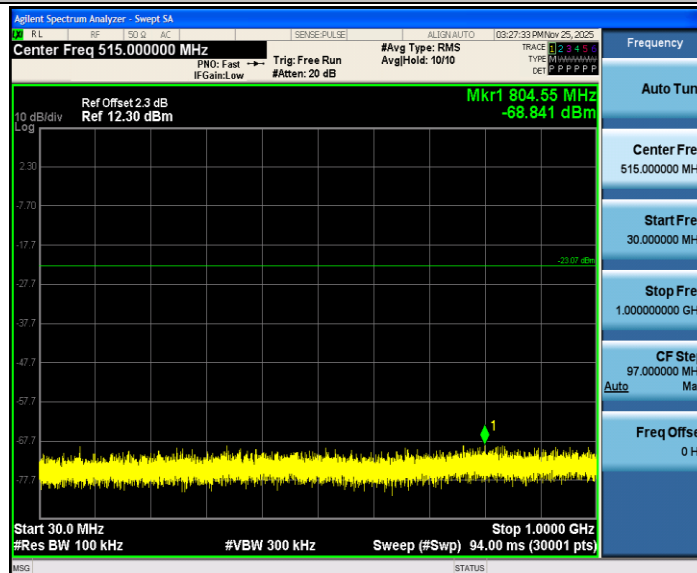
2DH5_Ant1_2402_1000~26500



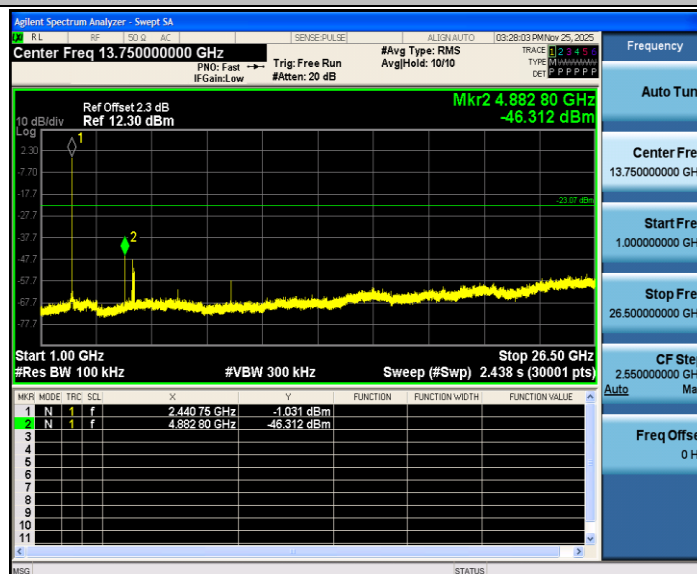
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



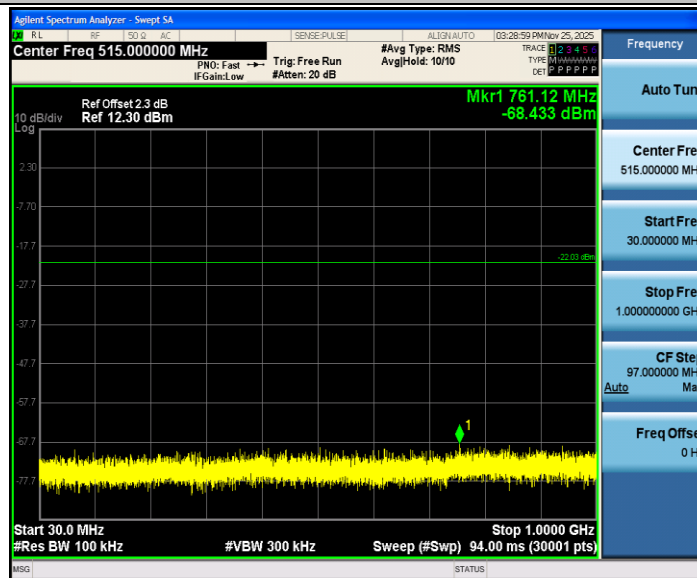
2DH5_Ant1_2441_1000~26500



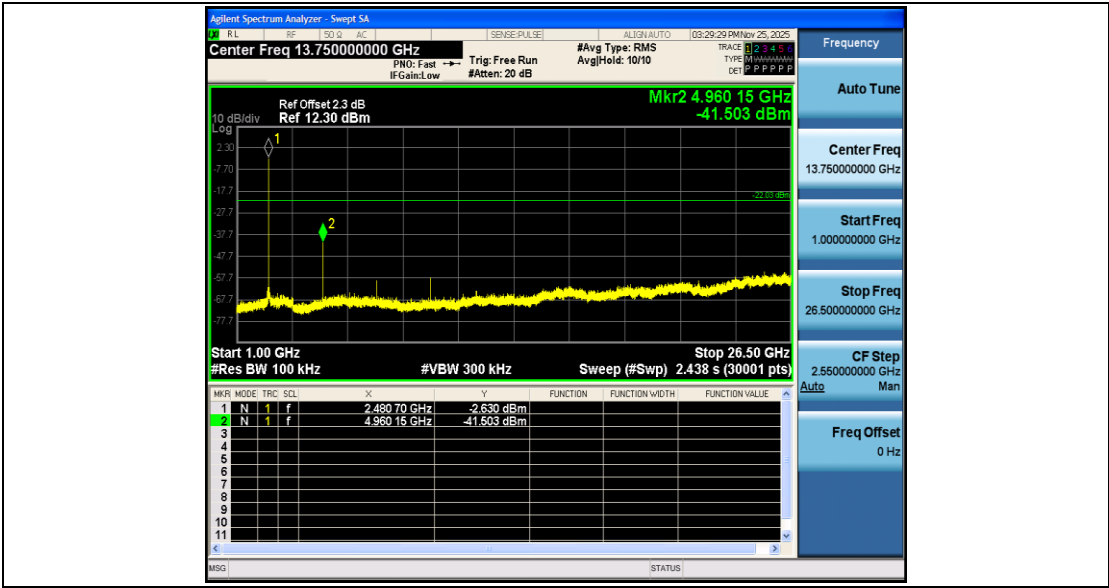
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

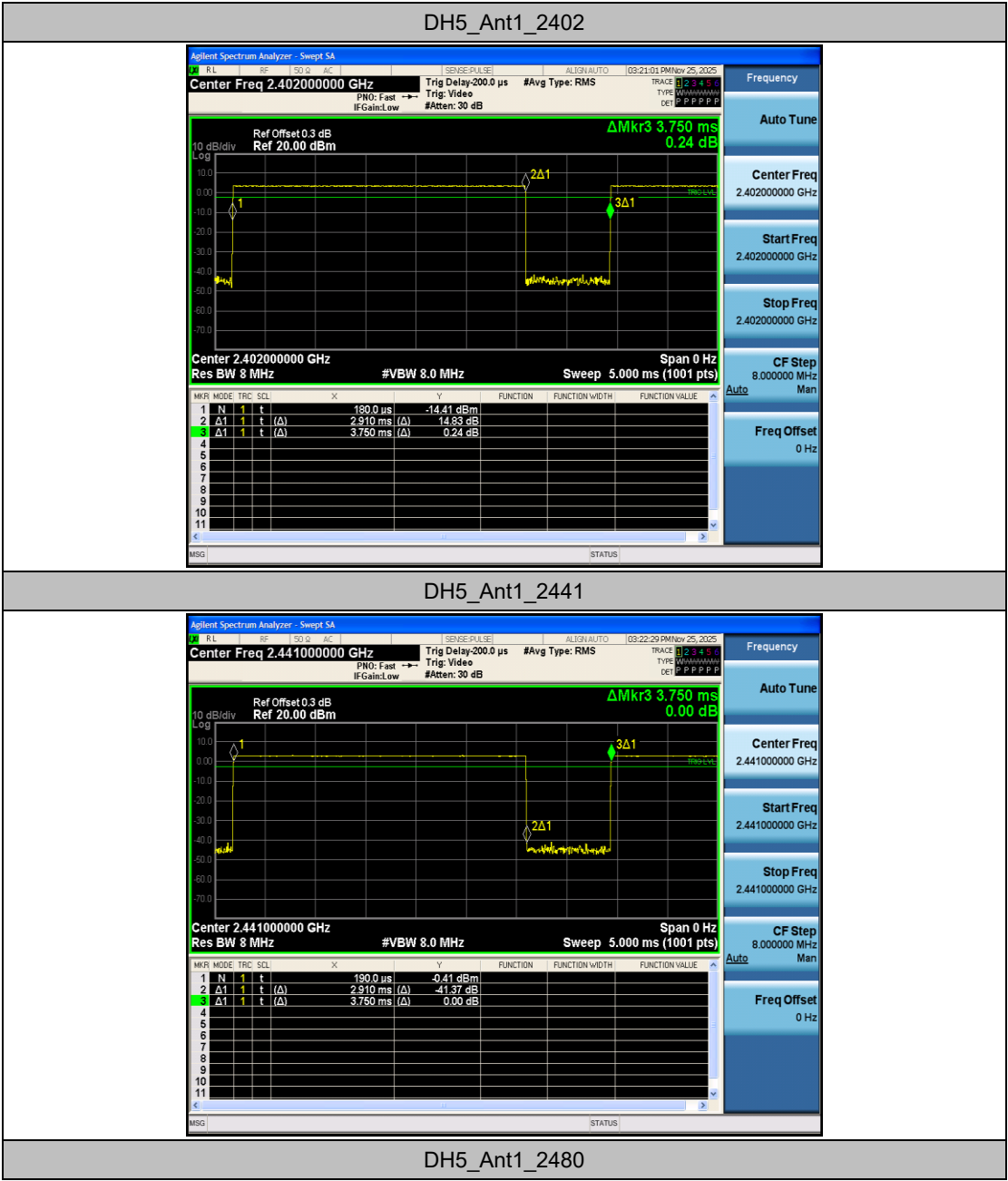


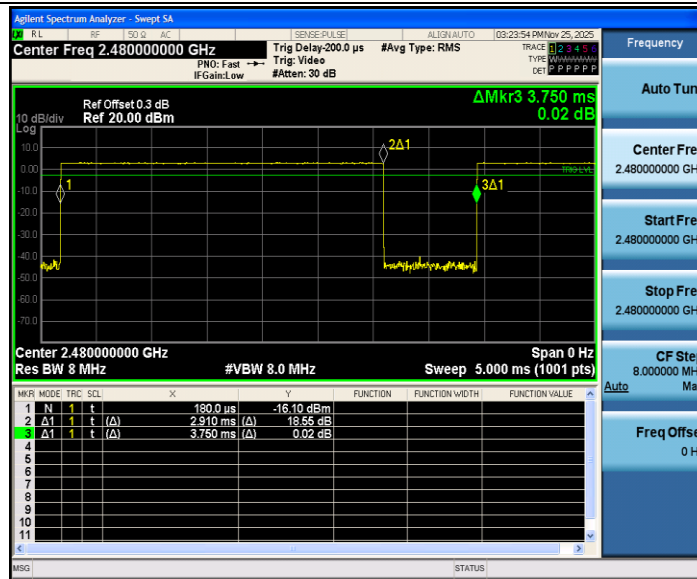
Appendix I: Duty Cycle

Test Result

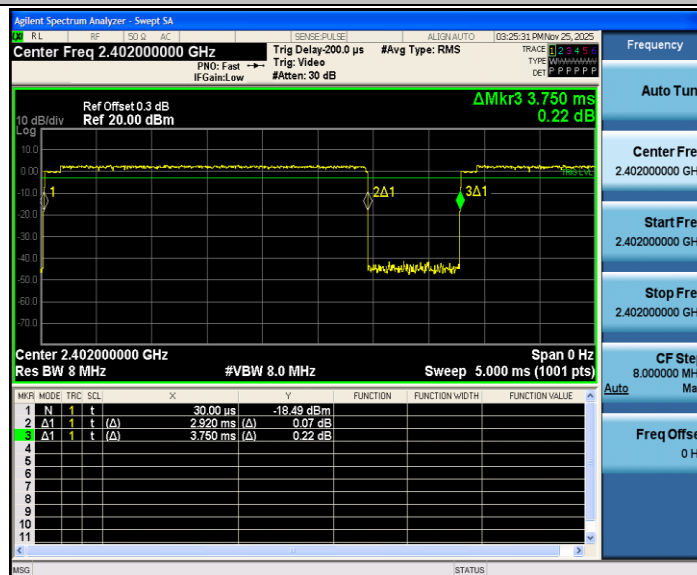
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

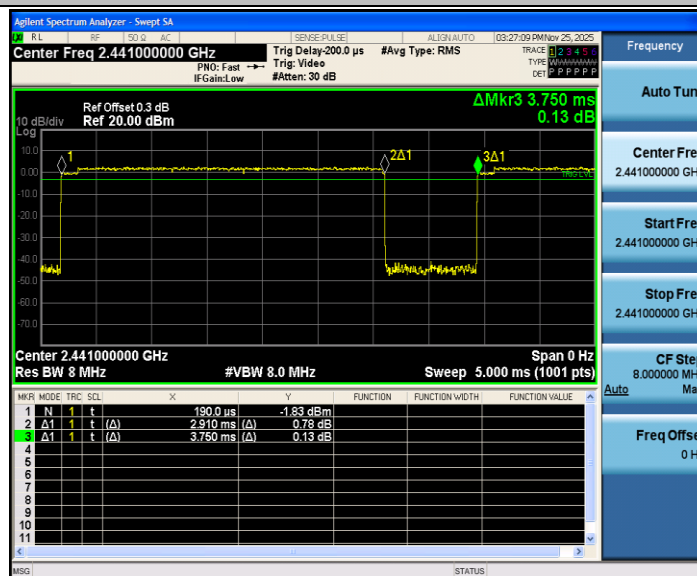




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

