

FCC Appendix RF Test Data

FCC ID : **2BP6G-LV-02**

Company: : **ENPING LESHENG ELECTRONICS TECHNOLOGY
CO . LTD**

EUT : **Wireless Microphone**

Model Number : **LV-02**

Report No. : **CTA25052901401**

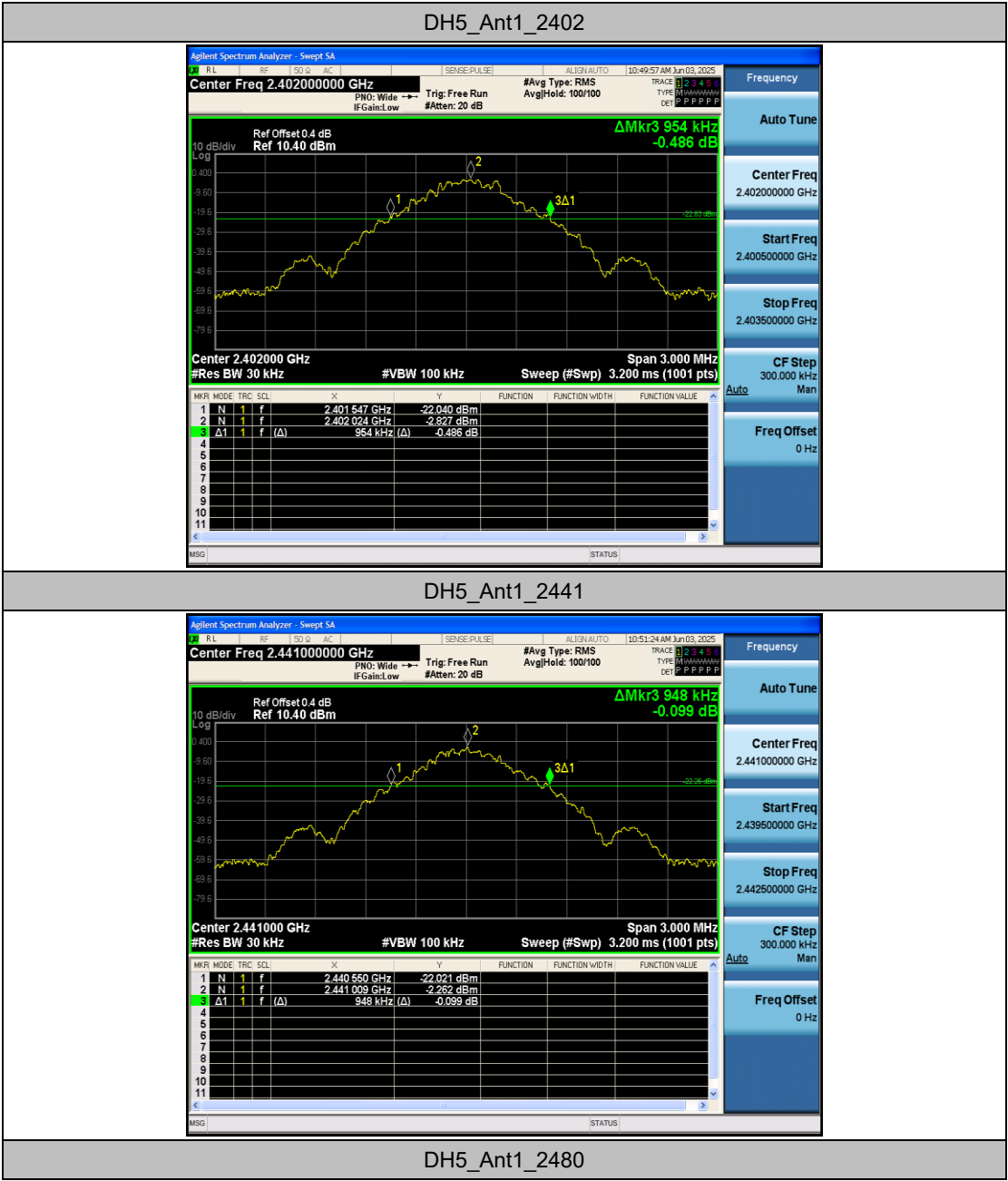
Reviewed By : **Eric Wang**

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	0.948	2440.550	2441.498	---	---
		2480	0.933	2479.553	2480.486	---	---
2DH5	Ant1	2402	1.311	2401.355	2402.666	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.278	2479.394	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

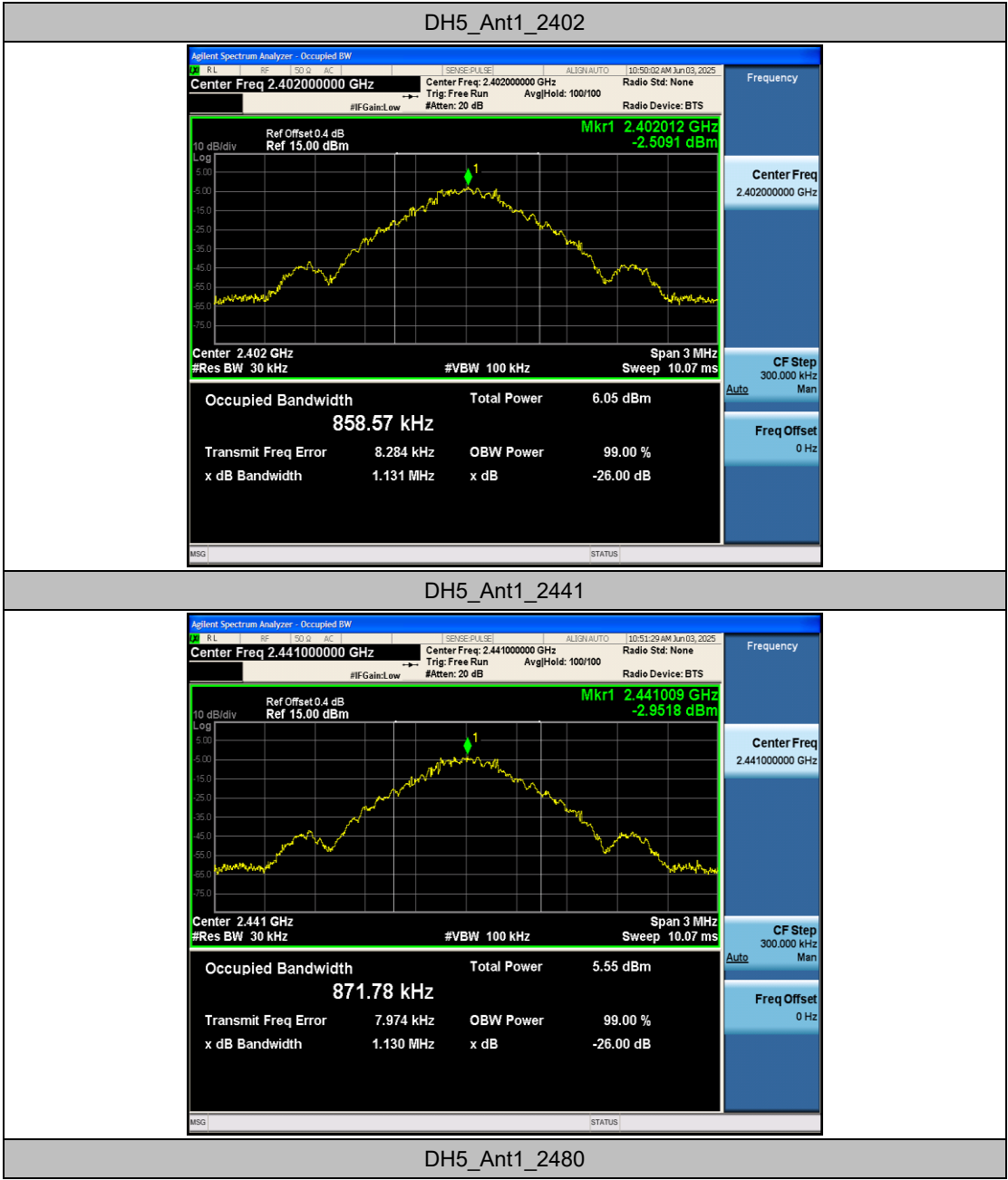


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85857	2401.5790	2402.4376	---	---
		2441	0.87178	2440.5721	2441.4439	---	---
		2480	0.87076	2479.5730	2480.4437	---	---
2DH5	Ant1	2402	1.1872	2401.4173	2402.6045	---	---
		2441	1.1895	2440.4167	2441.6062	---	---
		2480	1.1907	2479.4161	2480.6068	---	---

Test Graphs

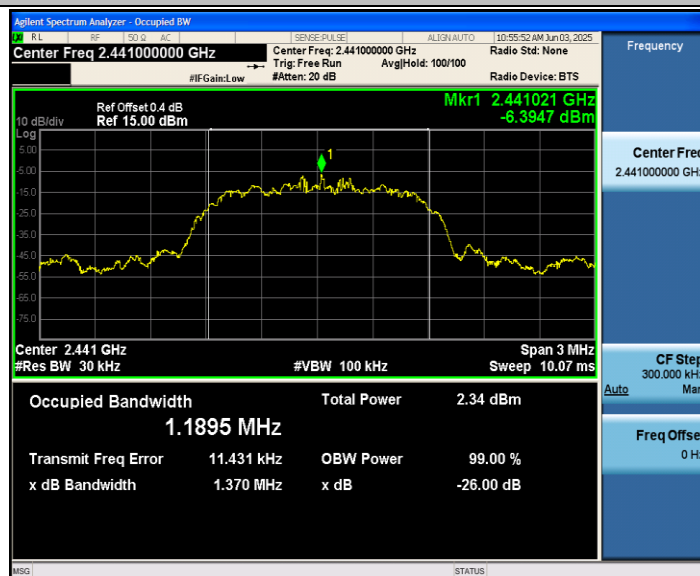




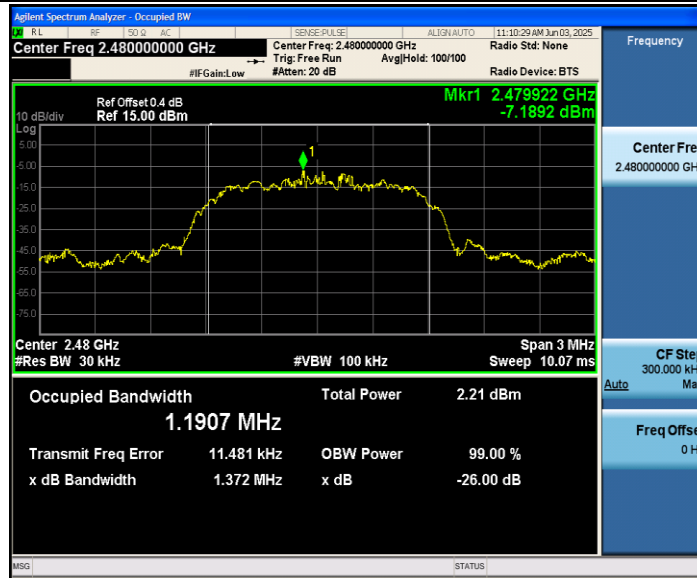
2DH5_Ant1_2402



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	-0.05	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.51	≤20.97	PASS
2DH5	Ant1	2402	-0.95	≤20.97	PASS
		2441	-1.10	≤20.97	PASS
		2480	-1.28	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.954	PASS
2DH5	Ant1	Hop	1.328	≥ 1.323	PASS

Test Graphs

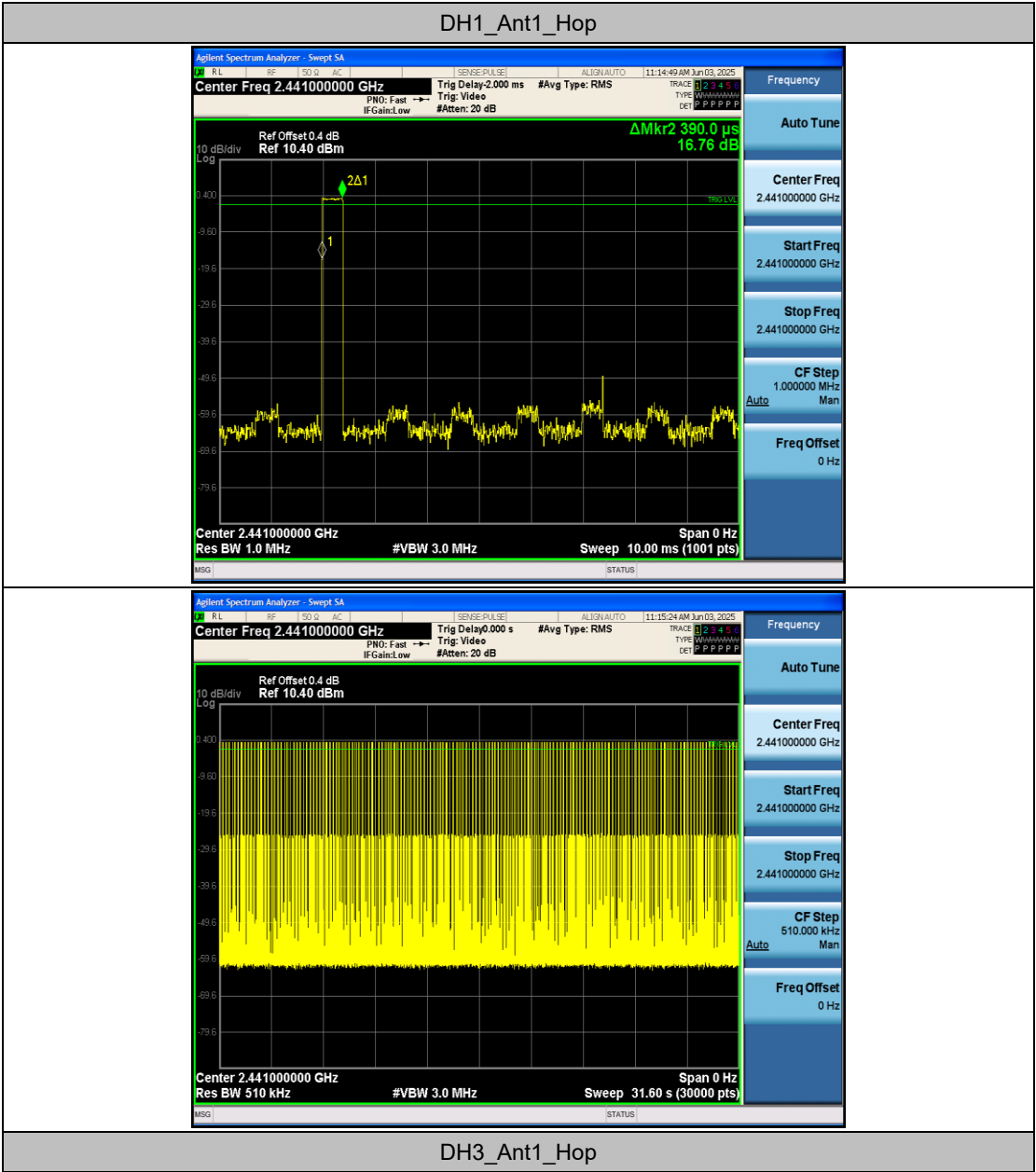


Appendix E: Time of occupancy

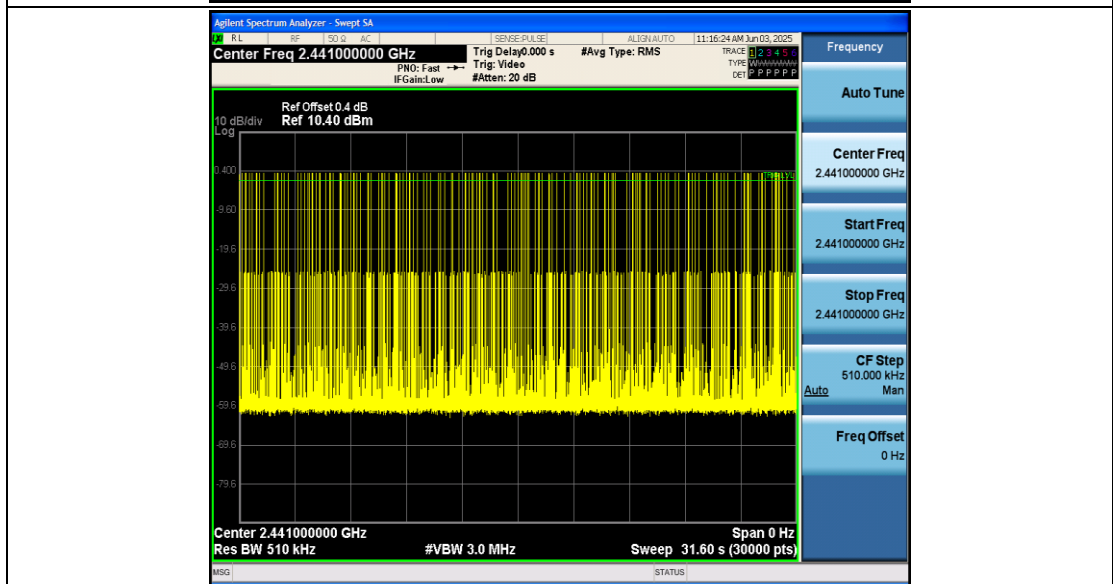
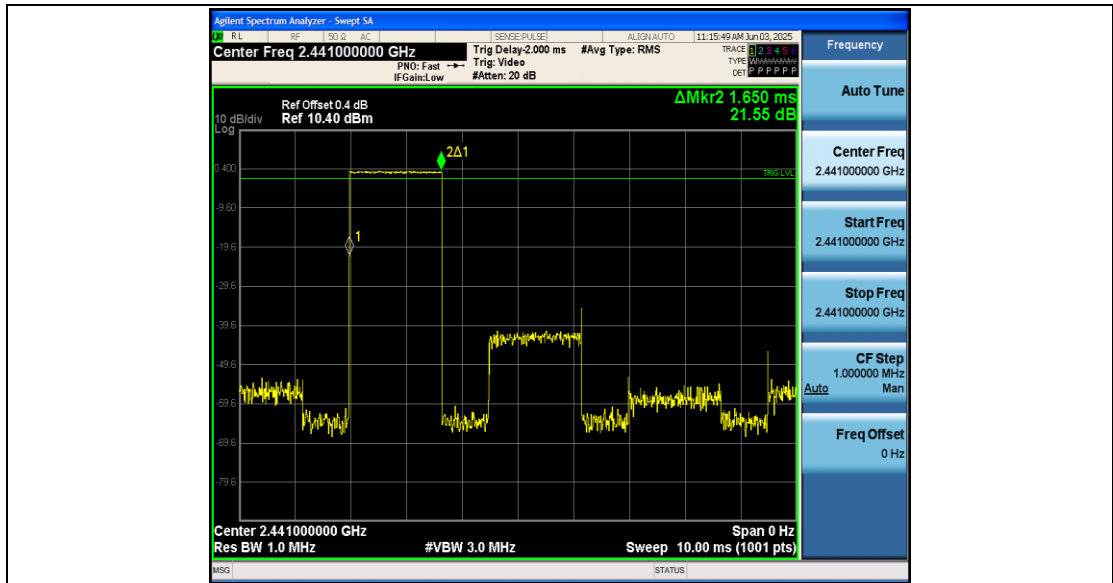
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.900	102	0.296	≤0.4	PASS
2DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	168	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.890	108	0.312	≤0.4	PASS

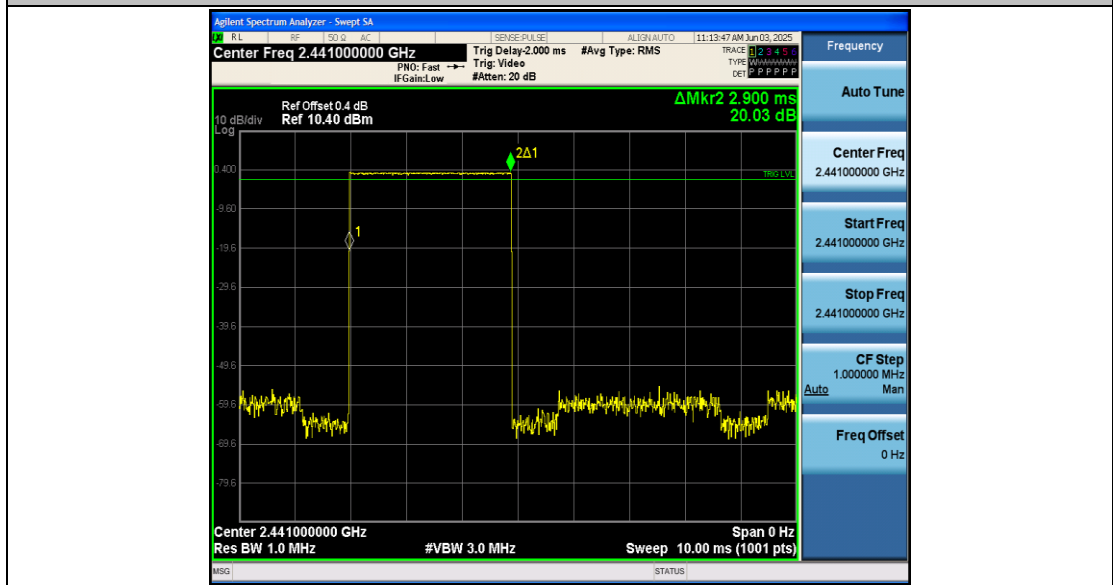
Test Graphs

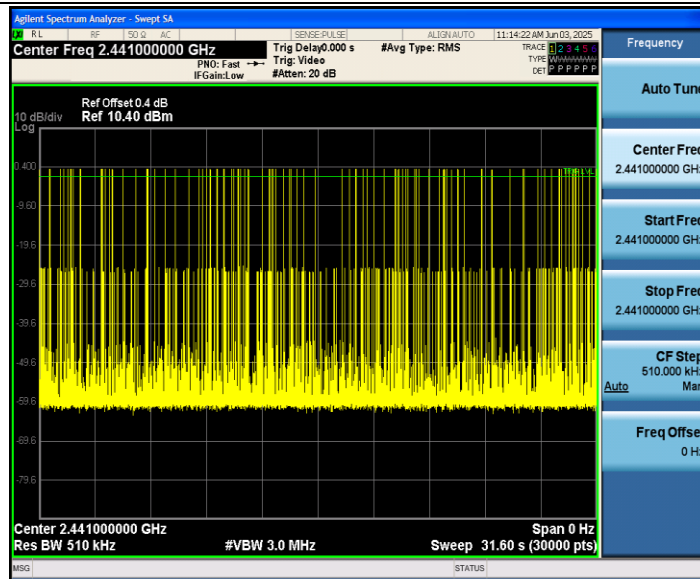


DH3_Ant1_Hop

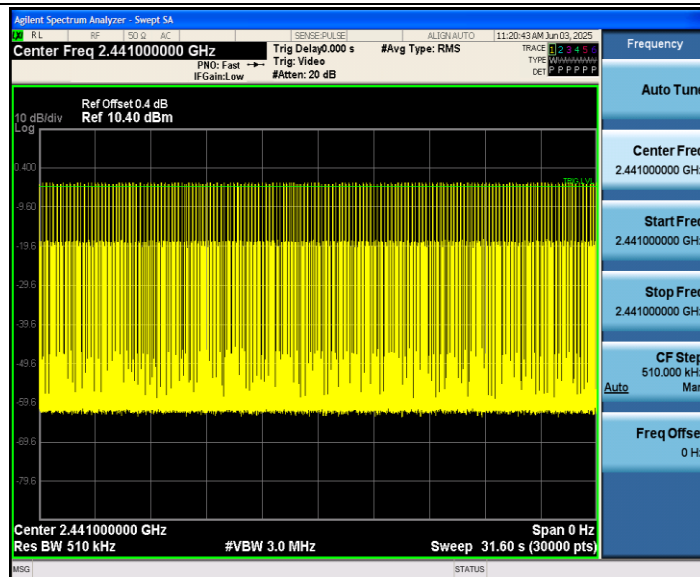
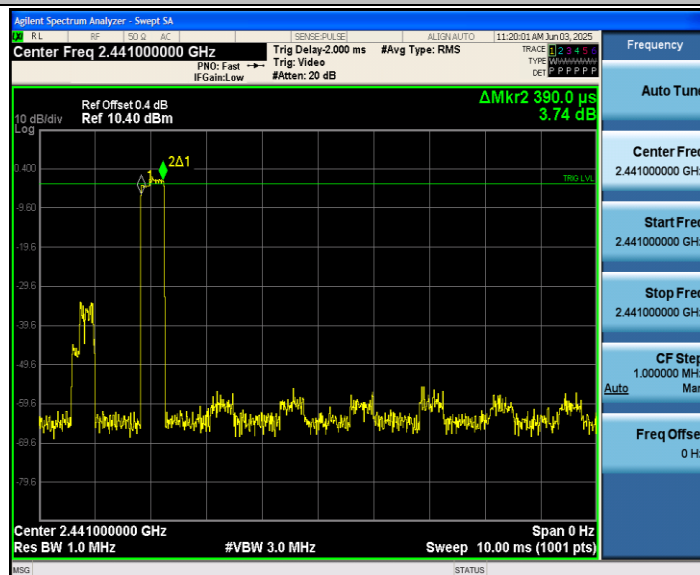


DH5_Ant1_Hop

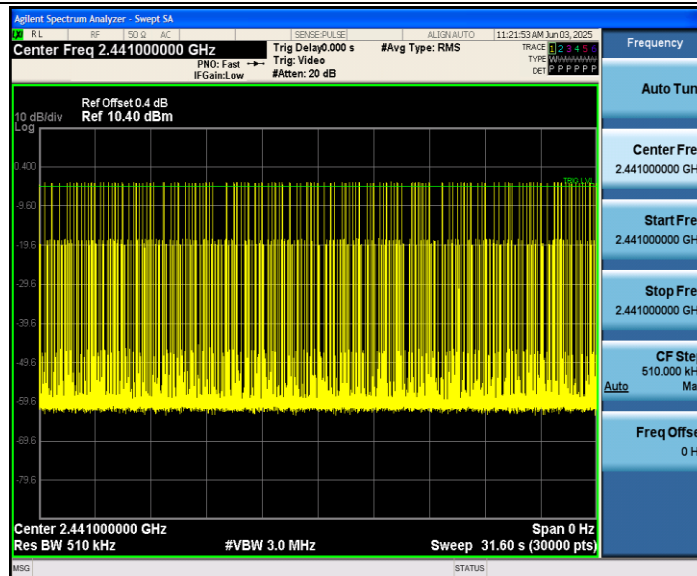
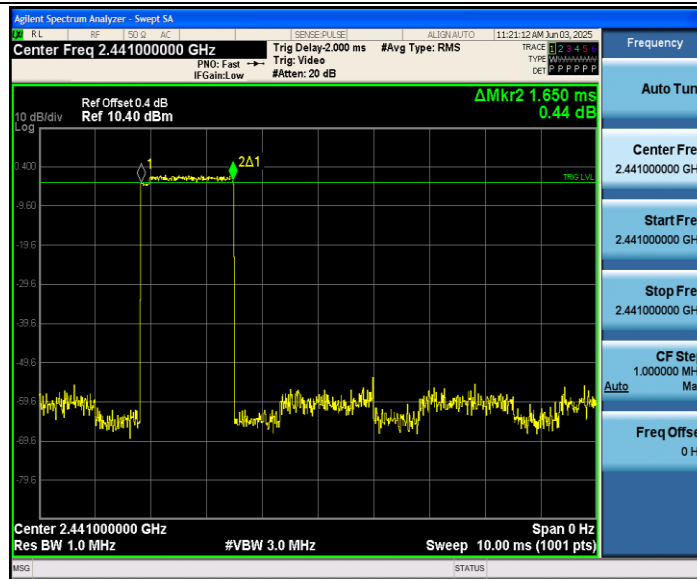




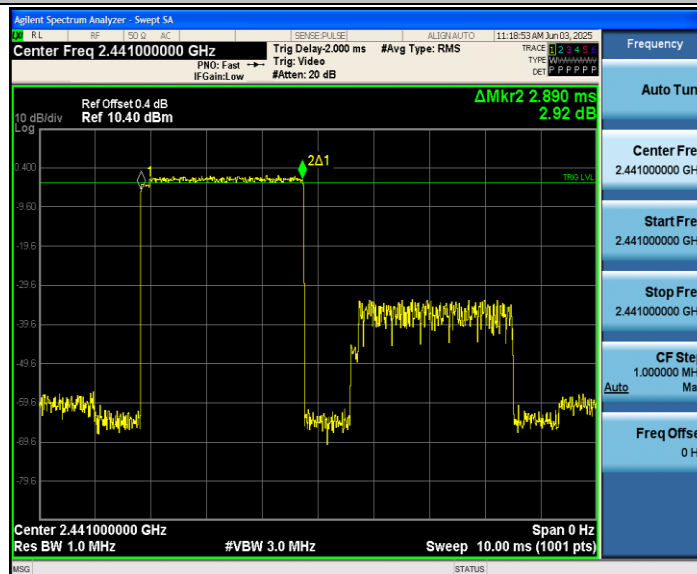
2DH1_Ant1_Hop

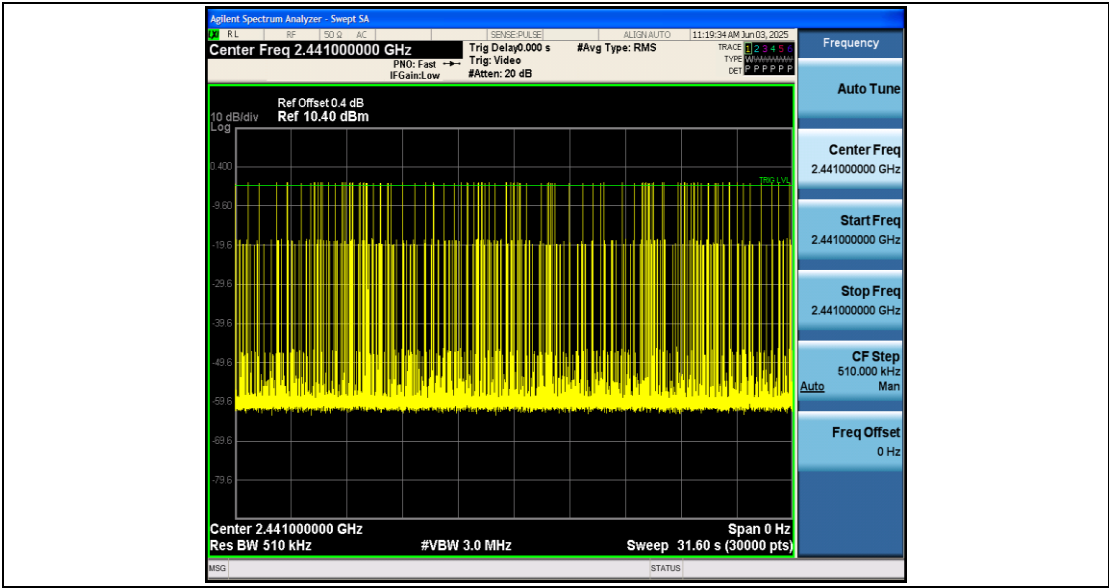


2DH3_Ant1_Hop



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	-0.31	-58.96	≤-20.31	PASS
		High	2480	-0.97	-57.53	≤-20.97	PASS
		Low	Hop_2402	-0.08	-52.86	≤-20.08	PASS
		High	Hop_2480	-0.87	-52.27	≤-20.87	PASS
2DH5	Ant1	Low	2402	-4.64	-59.15	≤-24.64	PASS
		High	2480	-5.25	-57.99	≤-25.25	PASS
		Low	Hop_2402	-5.98	-63.16	≤-25.98	PASS
		High	Hop_2480	-4.00	-63.86	≤-24	PASS

DH5_Ant1_Low_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.352500000 GHz

Ref Offset 0.4 dB
Ref 10.40 dBm

Mkr5 2.399750 GHz
-58.957 dBm

Start 2.300000 GHz
#Res BW 100 kHz

Stop 2.405000 GHz
#VBW 300 kHz

Sweep (#Swp) 10.07 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401850 GHz	-0.314 dBm			
2	N	1	f	2.400000 GHz	-50.973 dBm			
3	N	1	f	2.390000 GHz	-65.188 dBm			
4	N	1	f	2.310000 GHz	-69.512 dBm			
5	N	1	f	2.399750 GHz	-58.957 dBm			

DH5_Ant1_High_2480

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.510000000 GHz

Ref Offset 0.4 dB
Ref 10.40 dBm

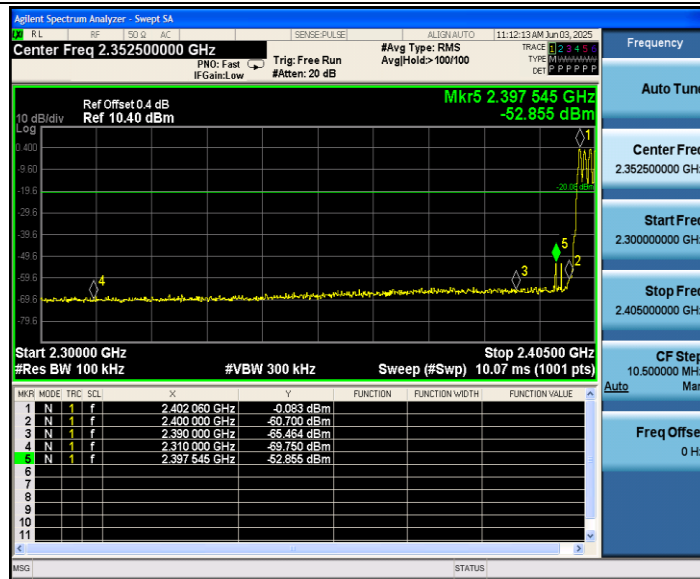
Mkr4 2.48432 GHz
-57.534 dBm

Start 2.470000 GHz
#Res BW 100 kHz

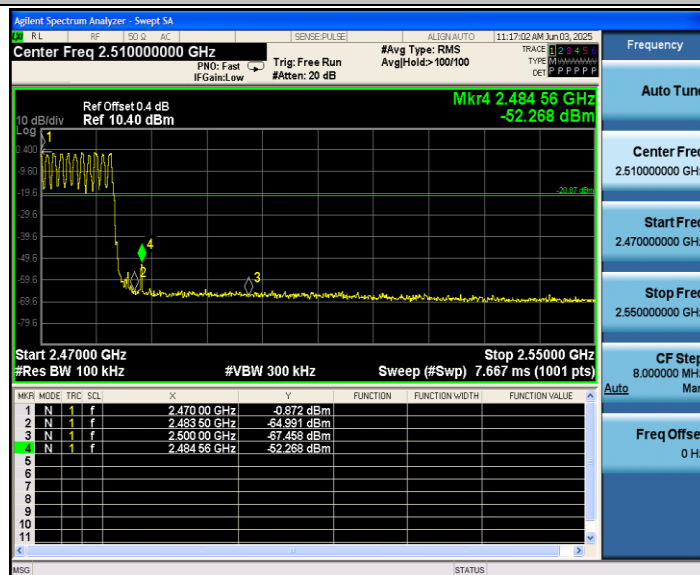
Stop 2.550000 GHz
#VBW 300 kHz

Sweep (#Swp) 7.667 ms (1001 pts)

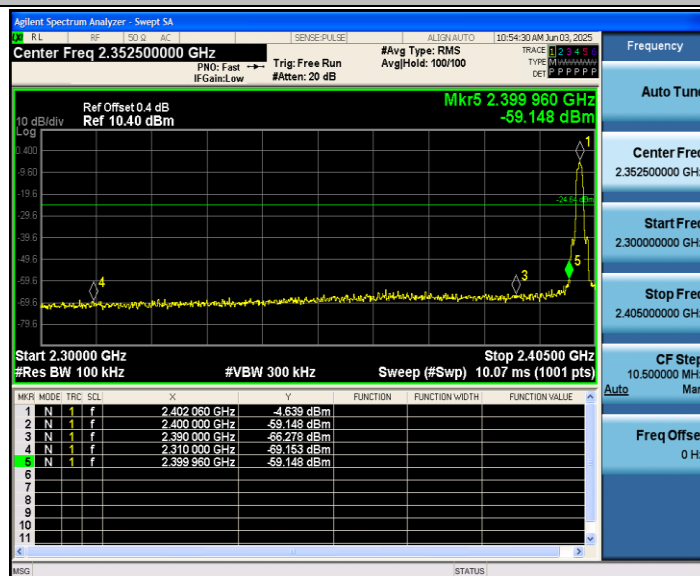
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.47984 GHz	-0.971 dBm			
2	N	1	f	2.48350 GHz	-63.290 dBm			
3	N	1	f	2.50000 GHz	-68.216 dBm			
4	N	1	f	2.48432 GHz	-57.534 dBm			



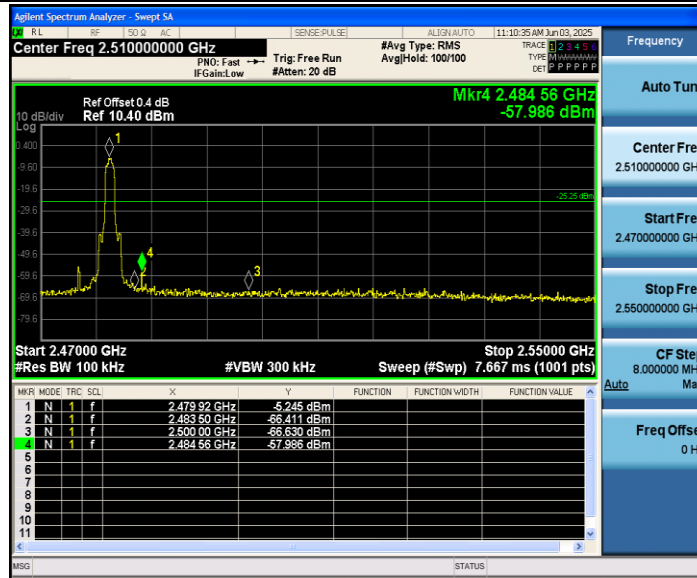
DH5_Ant1_High_Hop_2480



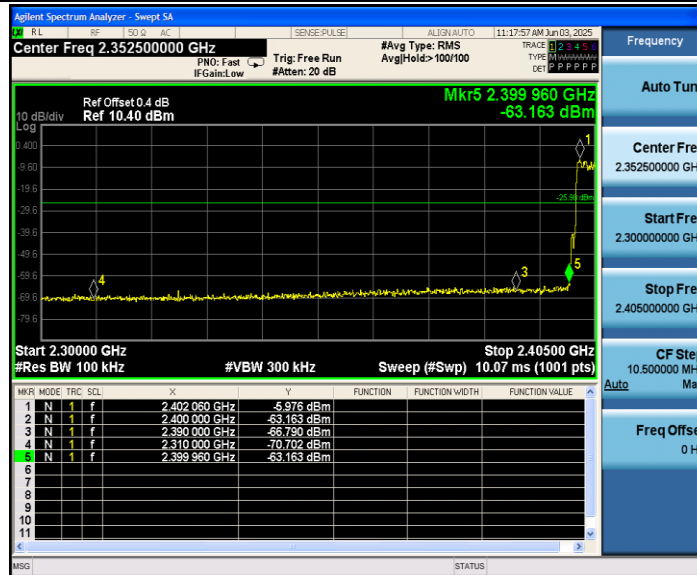
2DH5_Ant1_Low_2402



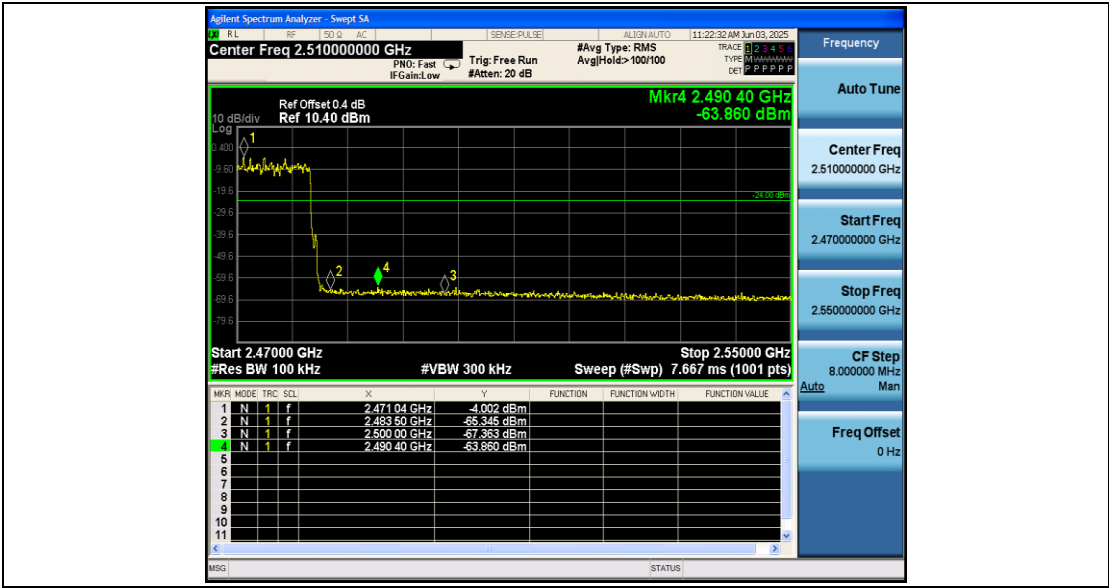
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

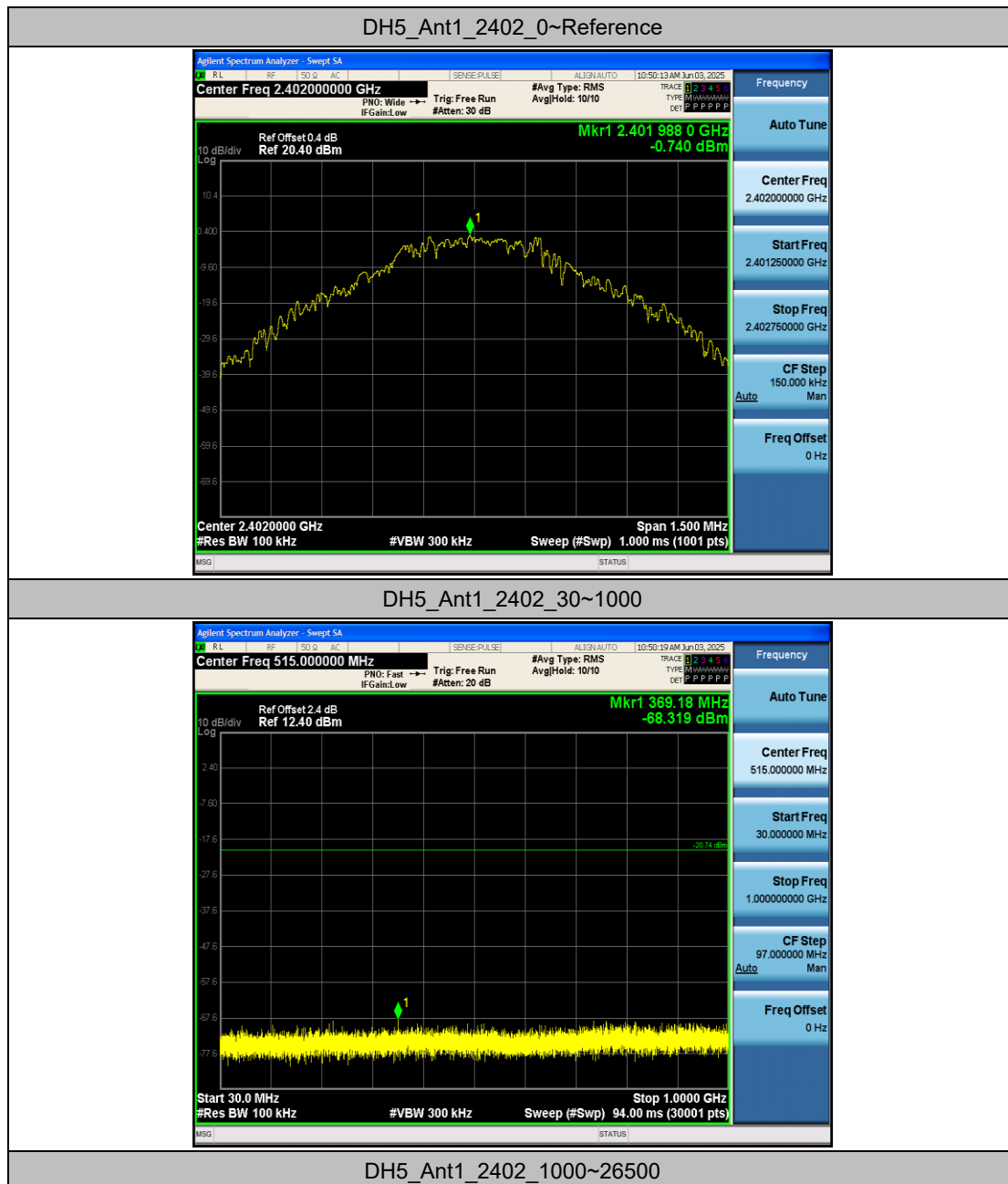


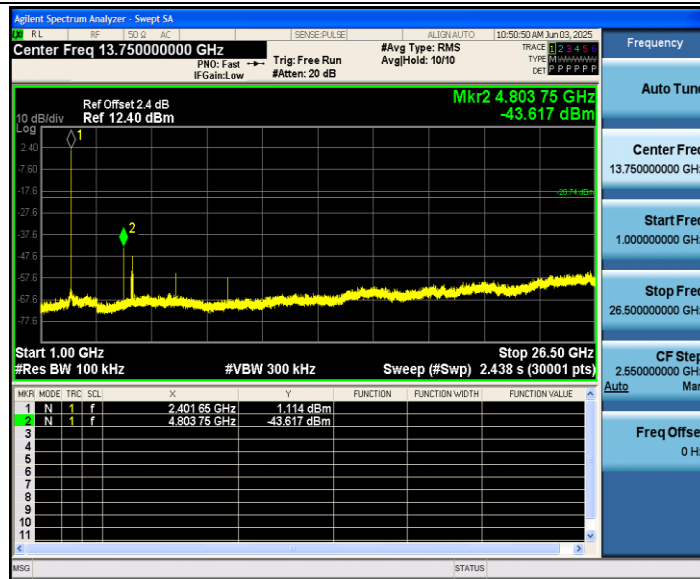
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-68.32	≤-20.74	PASS
			1000~26500	-0.74	-43.62	≤-20.74	PASS
		2441	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-67.57	≤-21.33	PASS
			1000~26500	-1.33	-41.83	≤-21.33	PASS
		2480	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-67.53	≤-21.45	PASS
			1000~26500	-1.45	-45.2	≤-21.45	PASS
2DH5	Ant1	2402	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-68.1	≤-25.75	PASS
			1000~26500	-5.75	-48.35	≤-25.75	PASS
		2441	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-68.32	≤-25.44	PASS
			1000~26500	-5.44	-48.62	≤-25.44	PASS
		2480	Reference	-6.15	-6.15	---	PASS
			30~1000	-6.15	-67.41	≤-26.15	PASS
			1000~26500	-6.15	-51.01	≤-26.15	PASS

Test Graphs

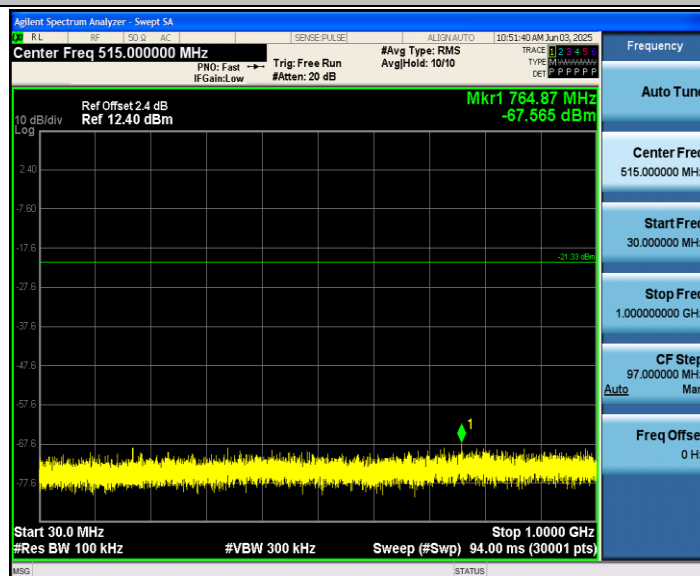




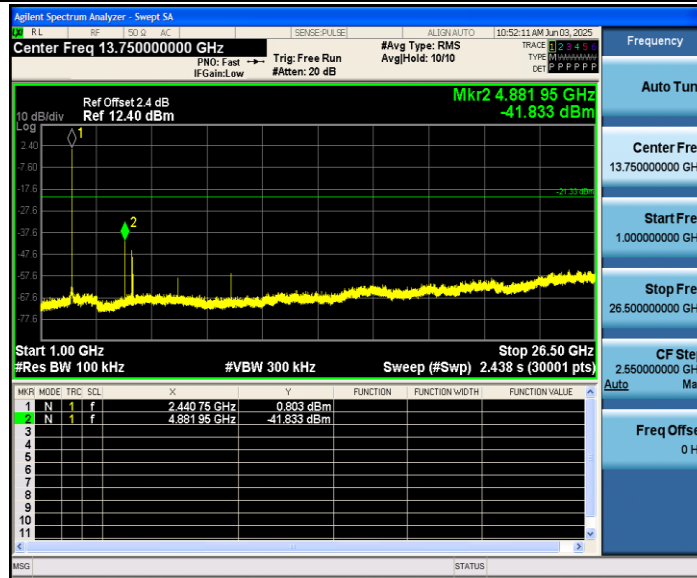
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



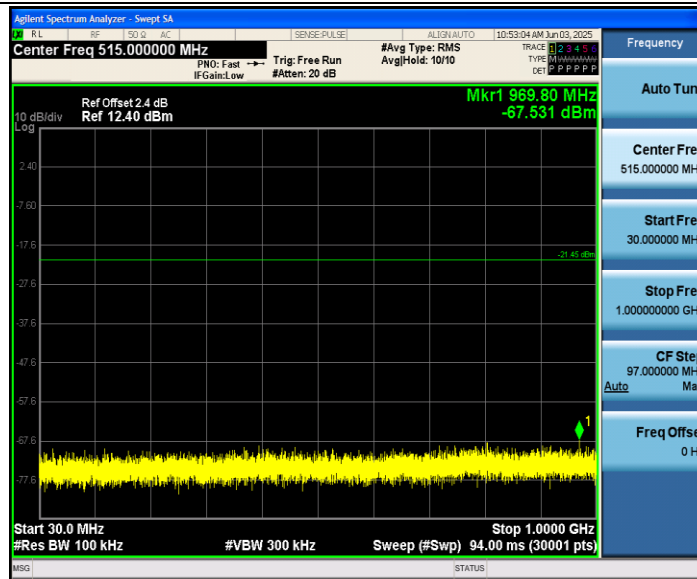
DH5_Ant1_2441_1000~26500



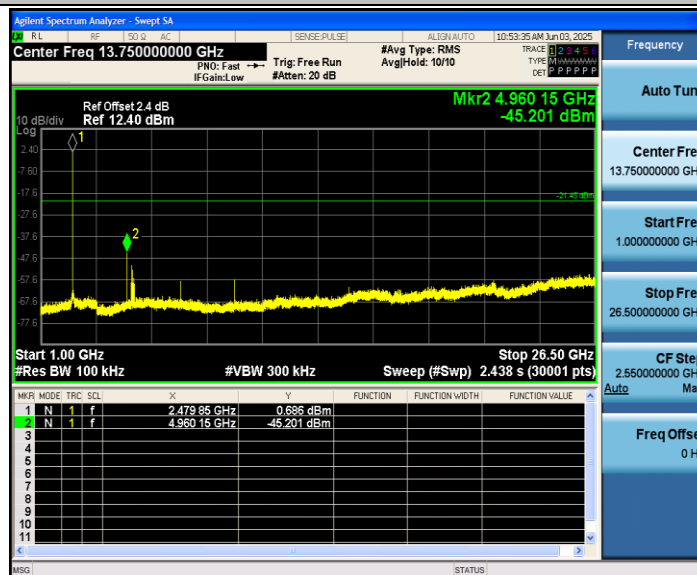
DH5_Ant1_2480_0~Reference



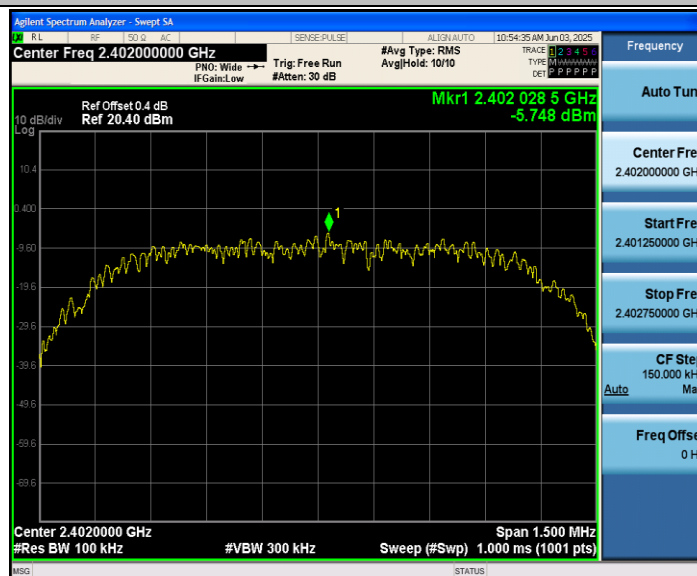
DH5_Ant1_2480_30~1000



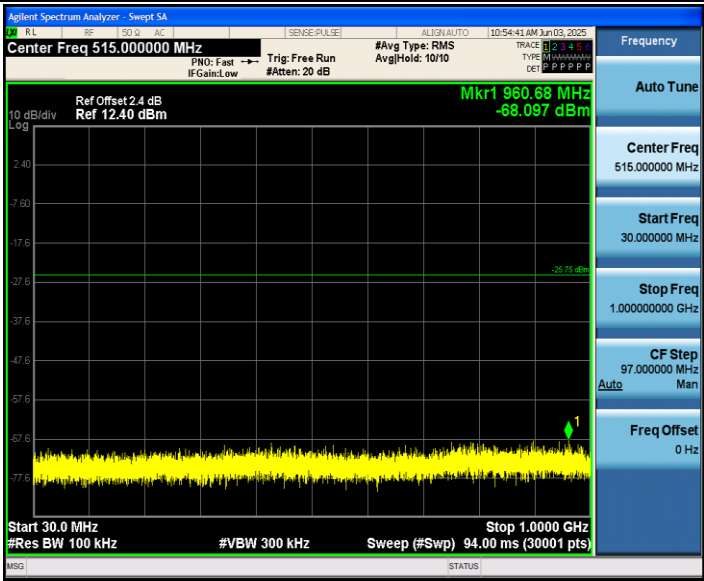
DH5_Ant1_2480_1000~26500



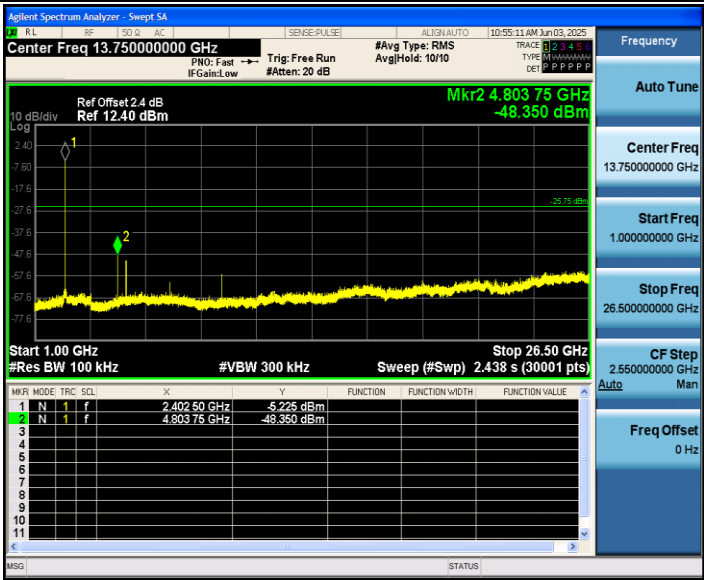
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



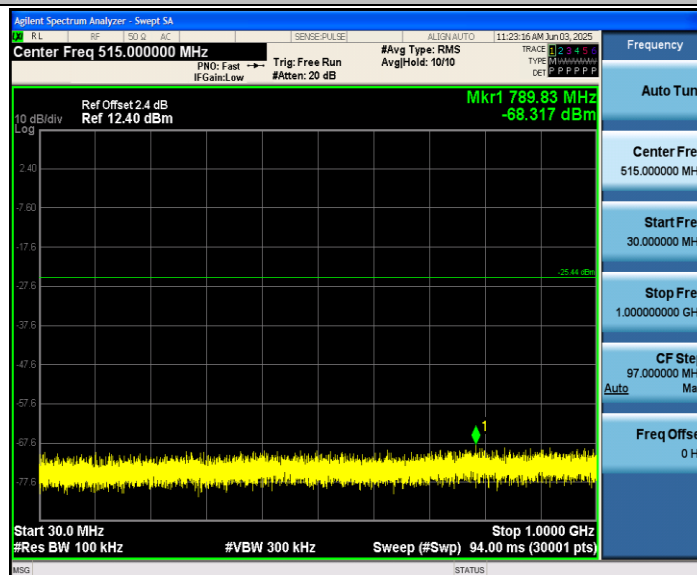
2DH5_Ant1_2402_1000~26500



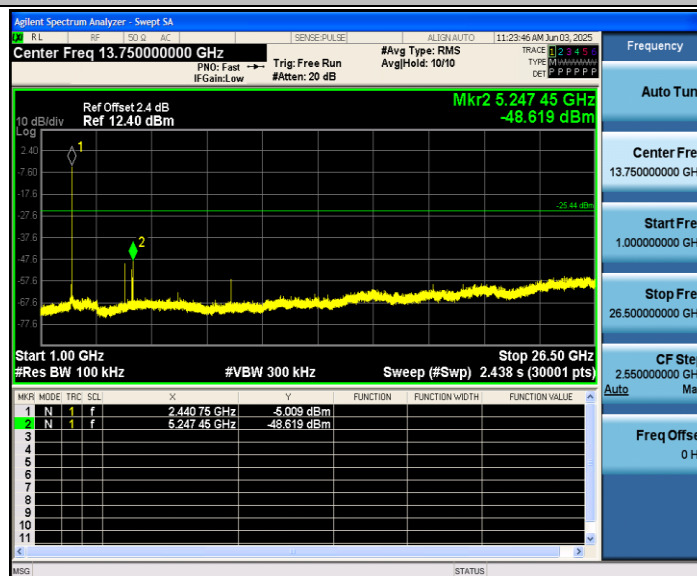
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



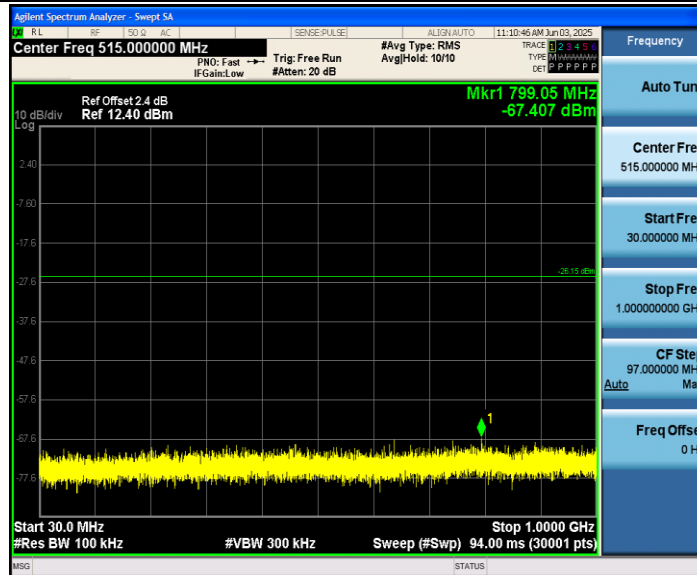
2DH5_Ant1_2441_1000~26500



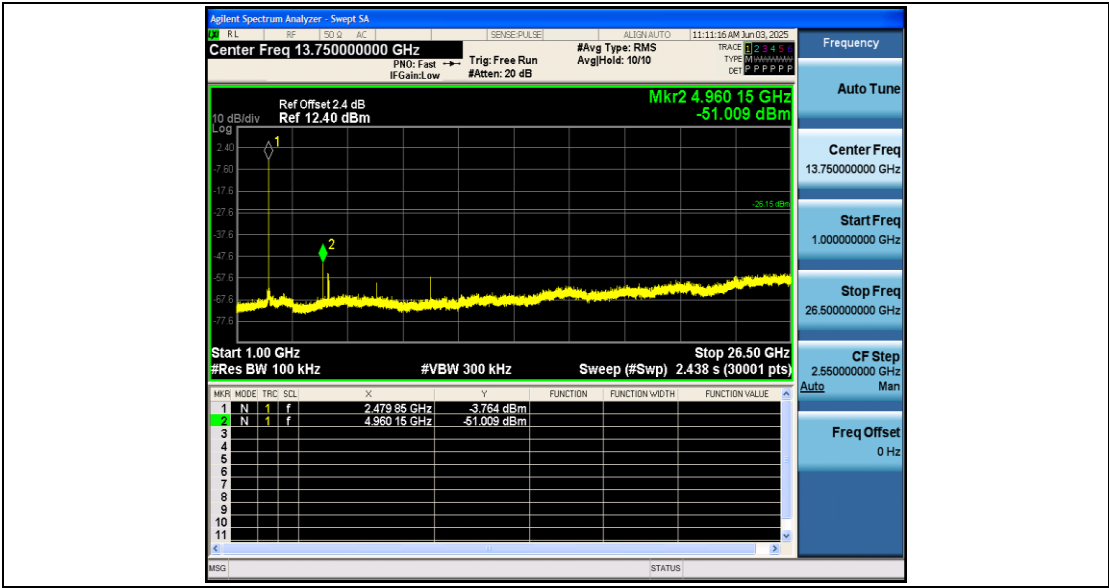
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

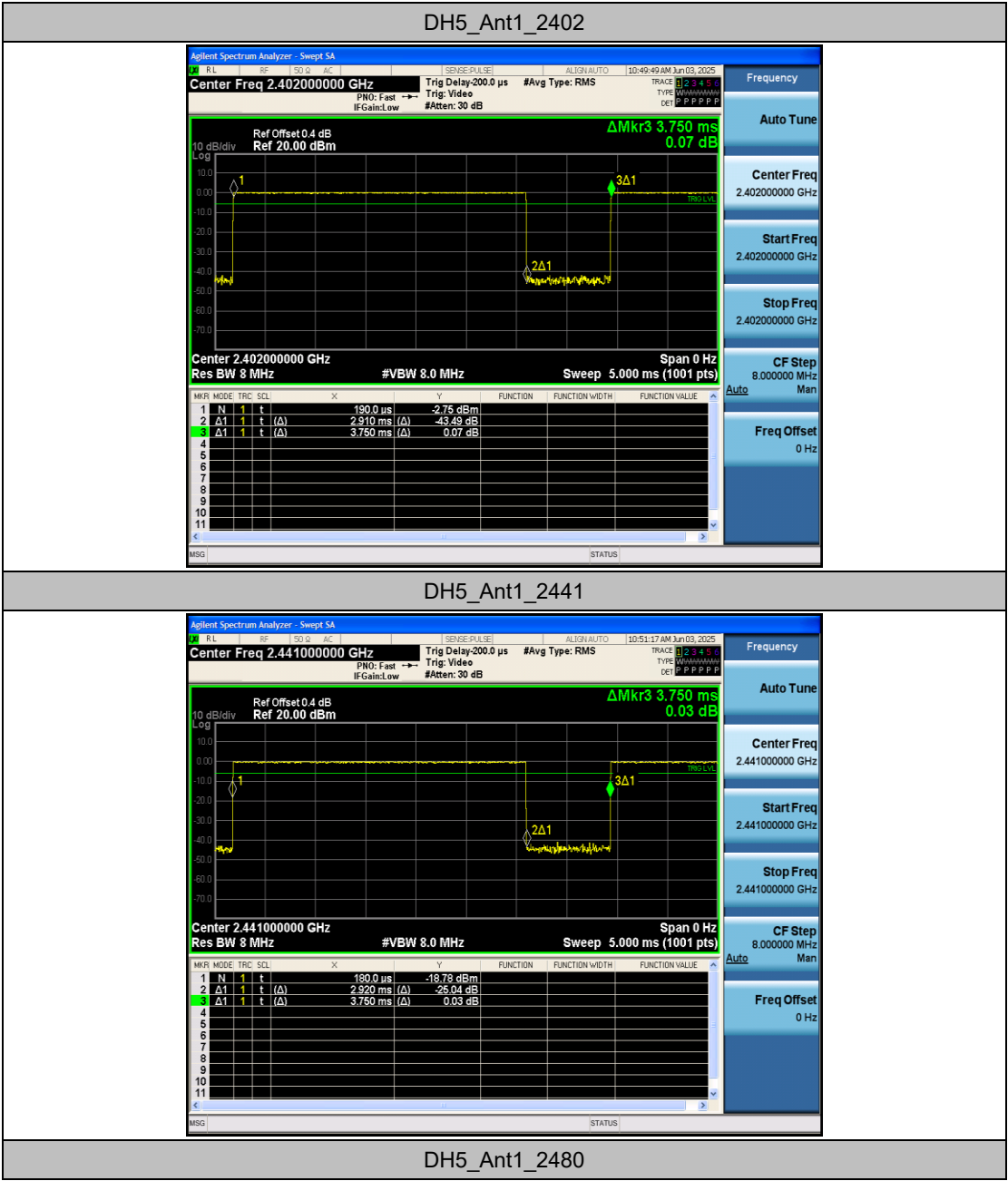


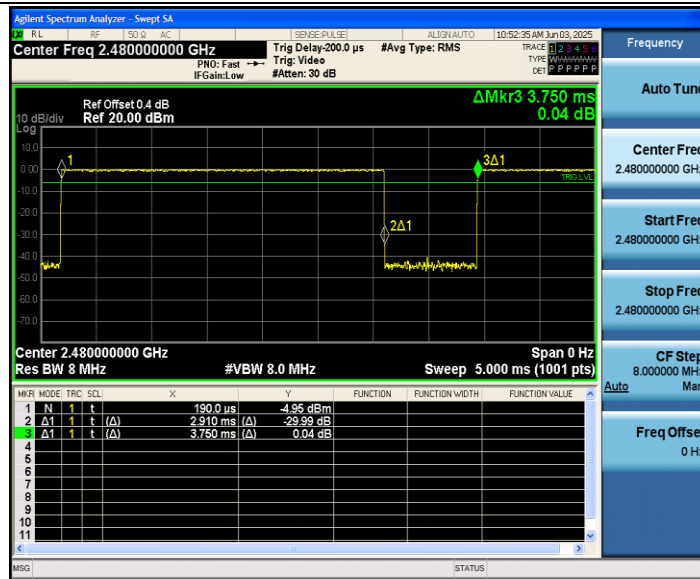
Appendix I: Duty Cycle

Test Result

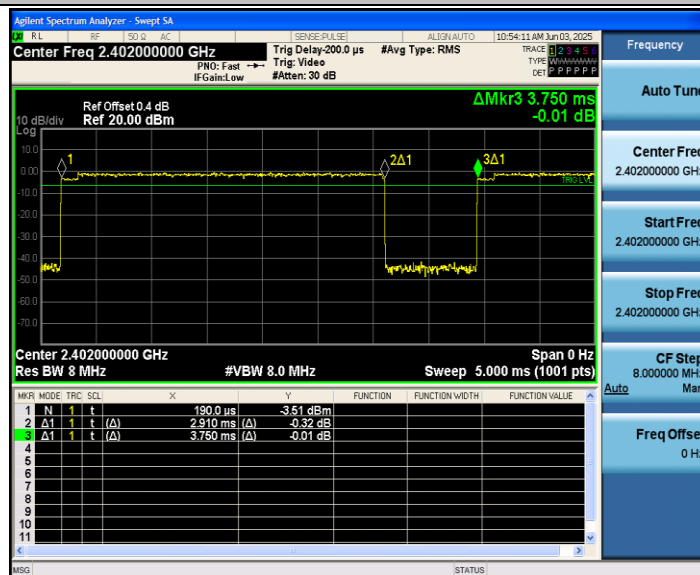
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

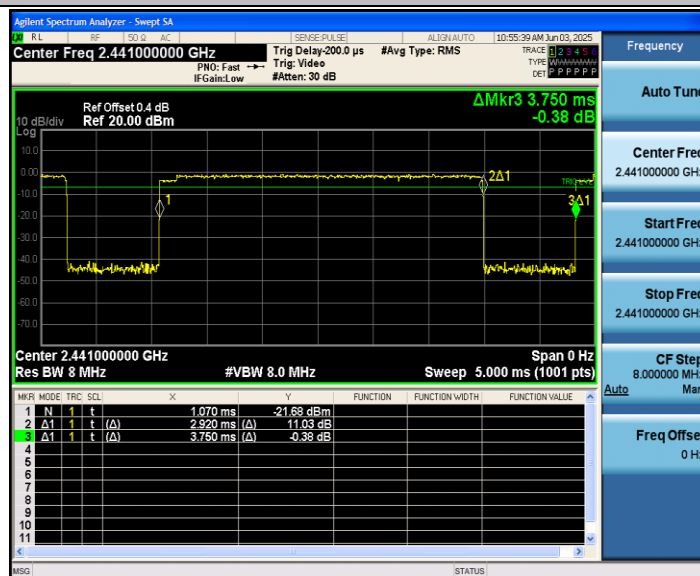




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

