

Appendix RF Test Data for 2.4G

FCC ID : 2BDLE-CT-10B

Company : Shenzhen HOTRC Technology Co., Ltd

EUT : 2.4G radio remote control

Model Number : CT-10B

Report No. : CTA25052302701

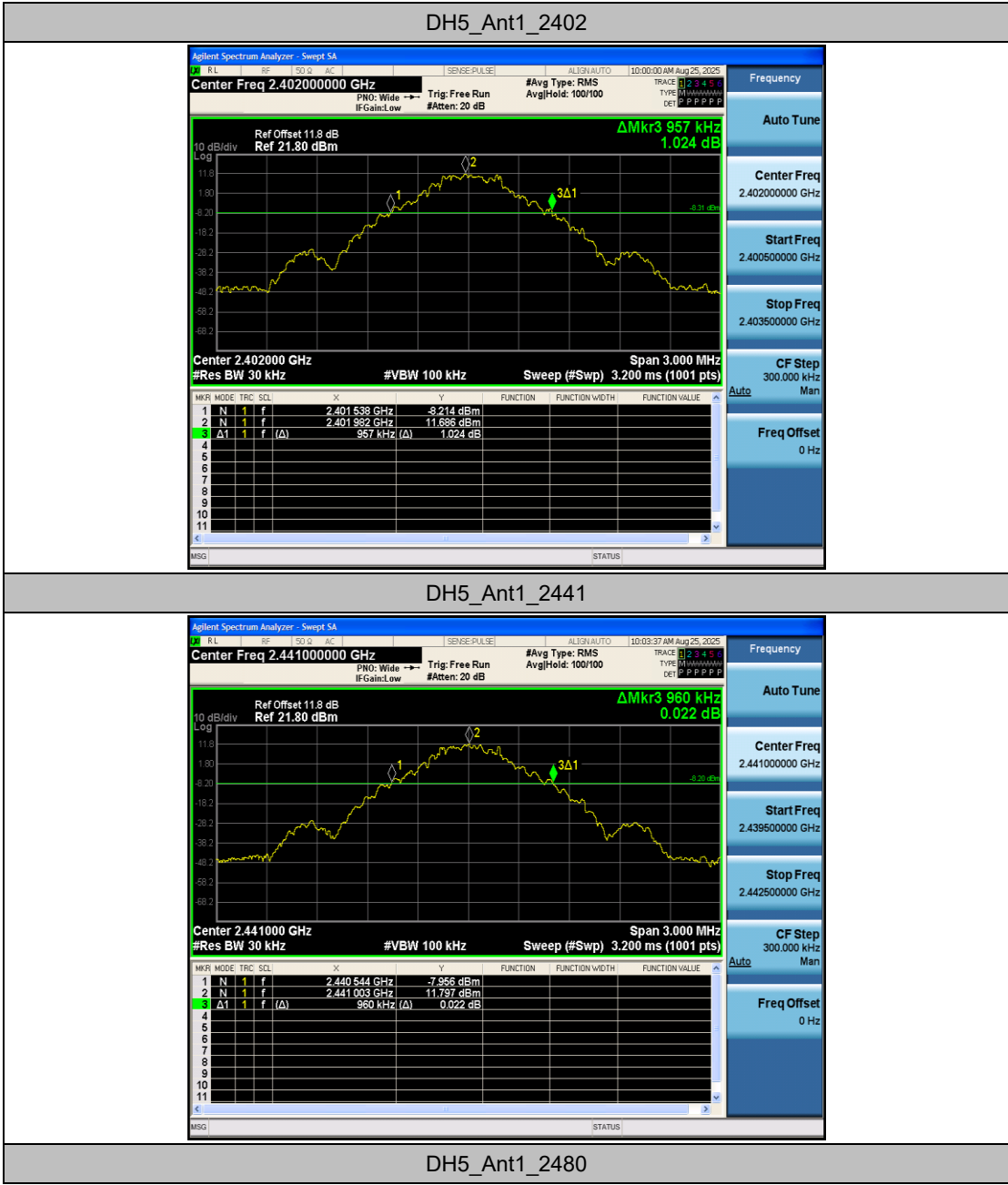
Reviewed By : Eric Wang

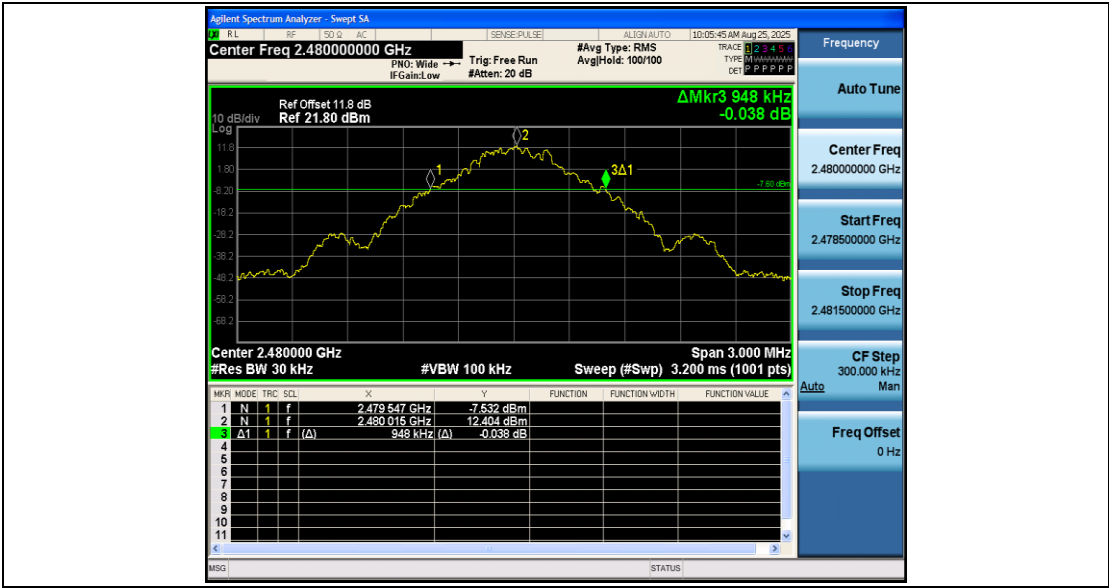
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.538	2402.495	---	---
		2441	0.960	2440.544	2441.504	---	---
		2480	0.948	2479.547	2480.495	---	---

Test Graphs





Appendix B: Occupied Channel Bandwidth

Test Result

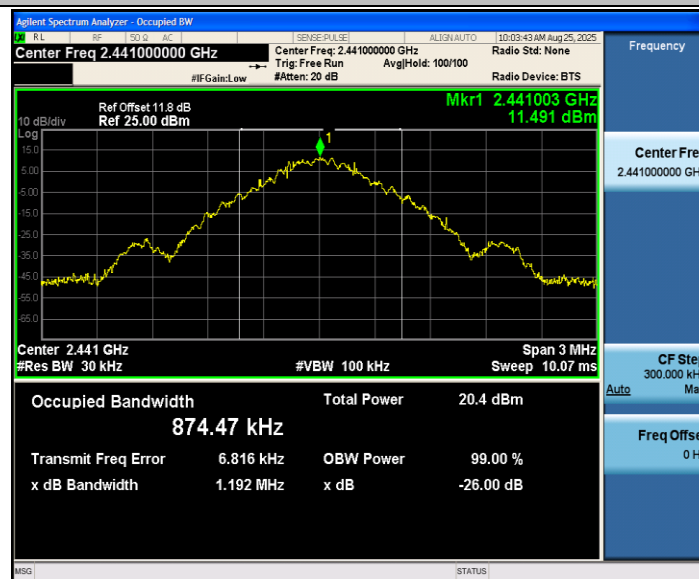
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86642	2401.5757	2402.4422	---	---
		2441	0.87447	2440.5696	2441.4441	---	---
		2480	0.87175	2479.5717	2480.4435	---	---

Test Graphs

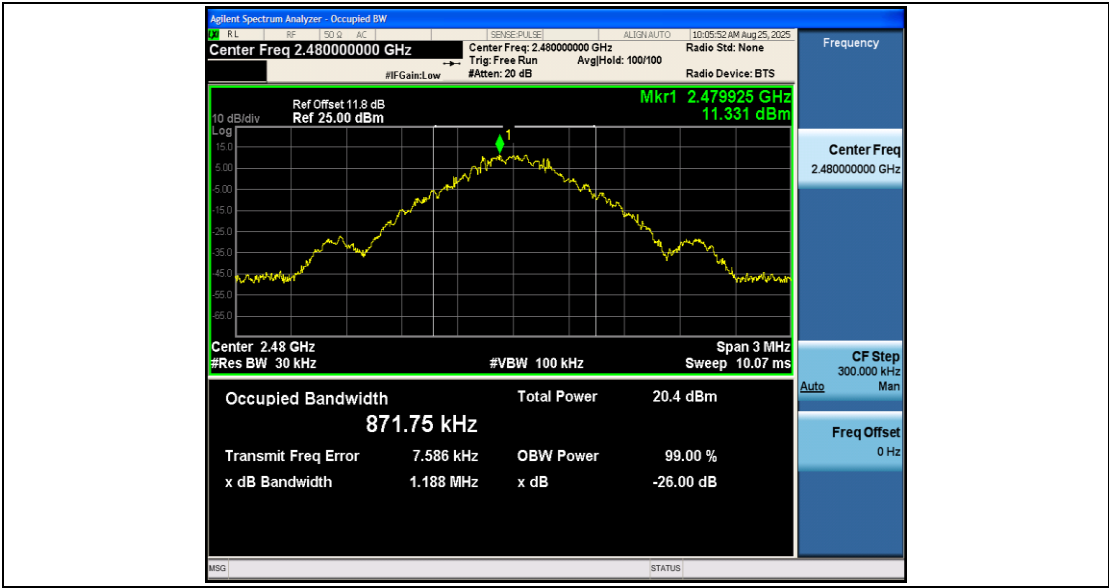
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

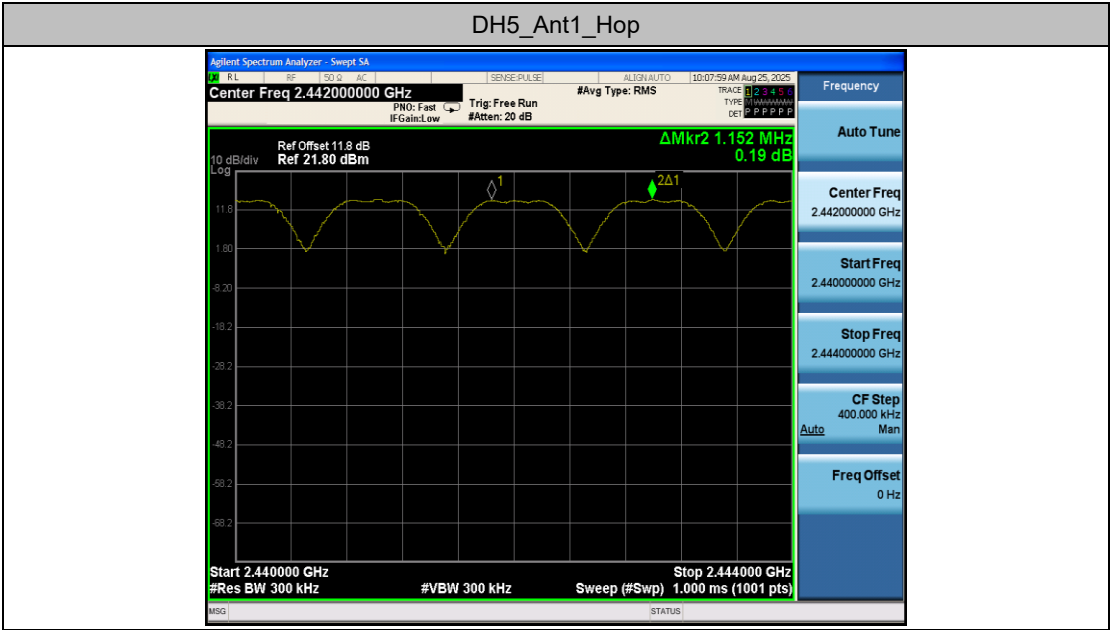
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	14.73	≤20.97	PASS
		2441	14.44	≤20.97	PASS
		2480	14.40	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.152	≥ 0.960	PASS

Test Graphs

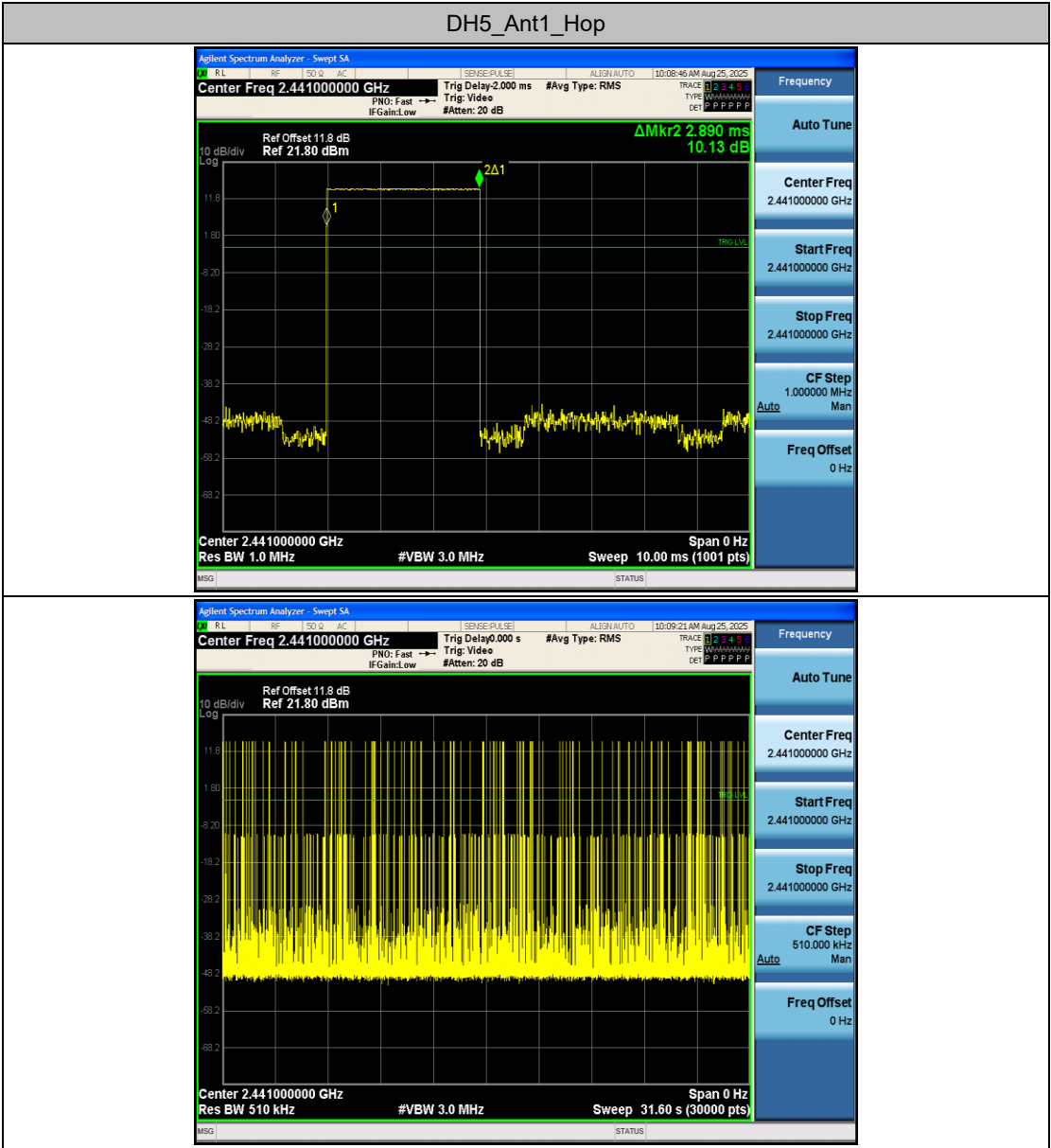


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.890	112	0.324	≤0.4	PASS

Test Graphs

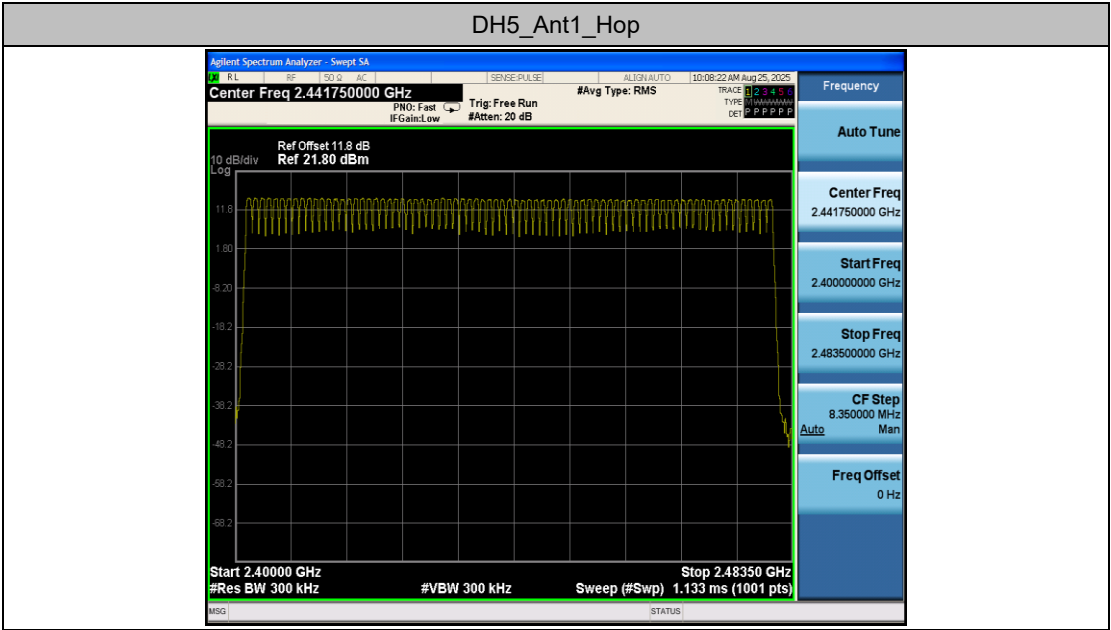


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

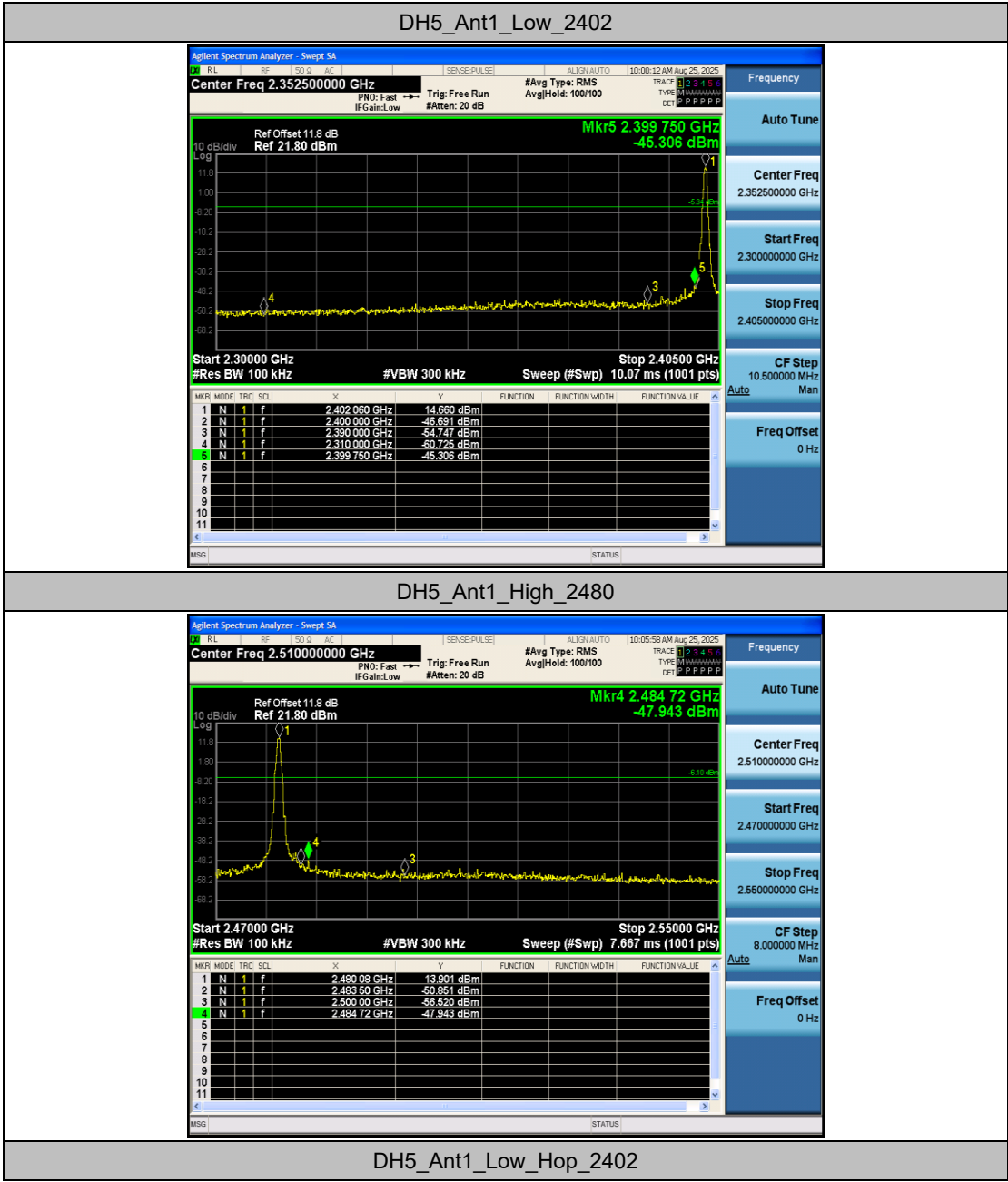


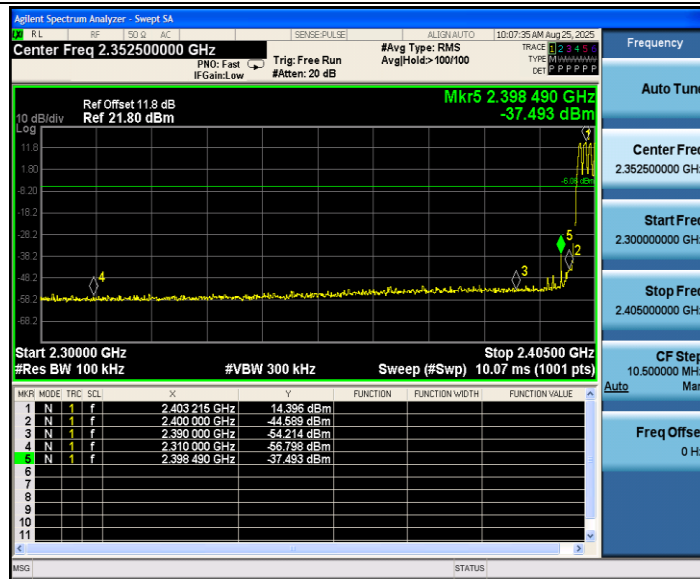
Appendix G: Band edge measurements

Test Result

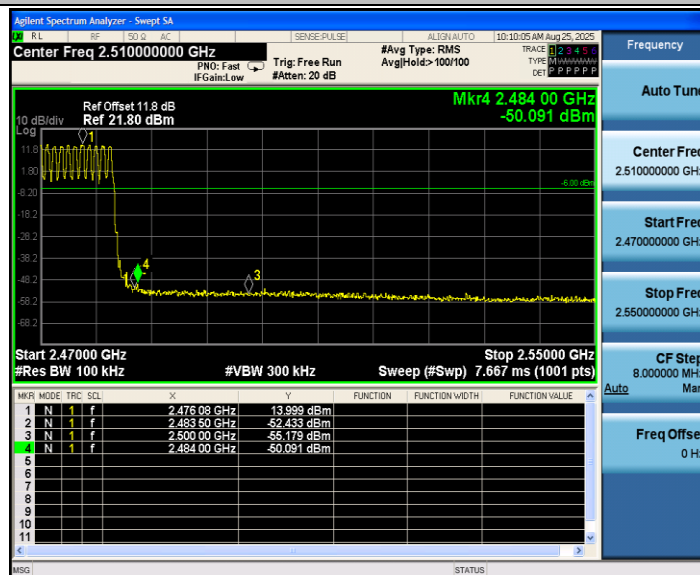
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	14.66	-45.31	≤ -5.34	PASS
		High	2480	13.90	-47.94	≤ -6.1	PASS
		Low	Hop_2402	13.95	-37.49	≤ -6.06	PASS
		High	Hop_2480	14.00	-50.09	≤ -6	PASS

Test Graphs





DH5_Ant1_High_Hop_2480

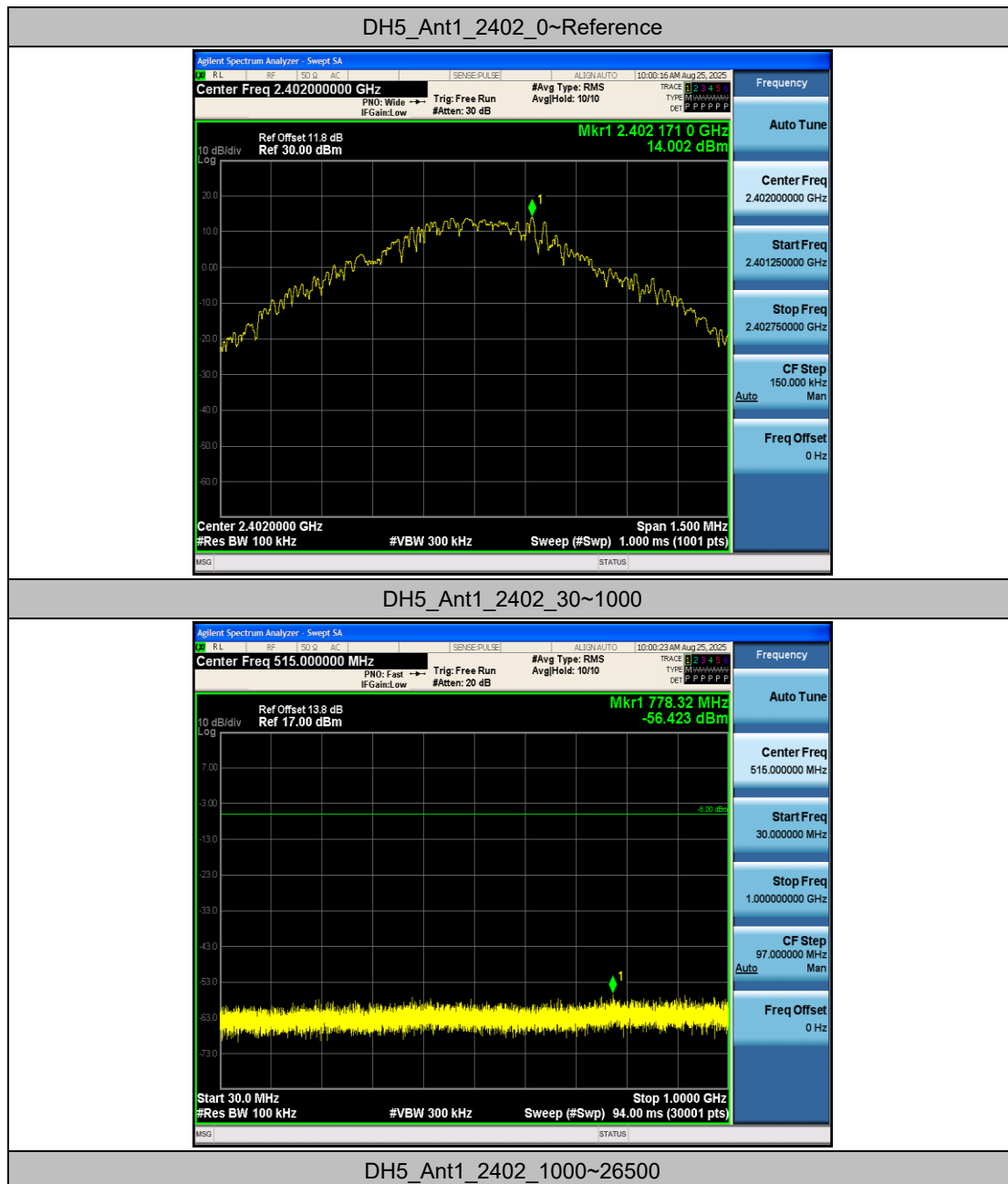


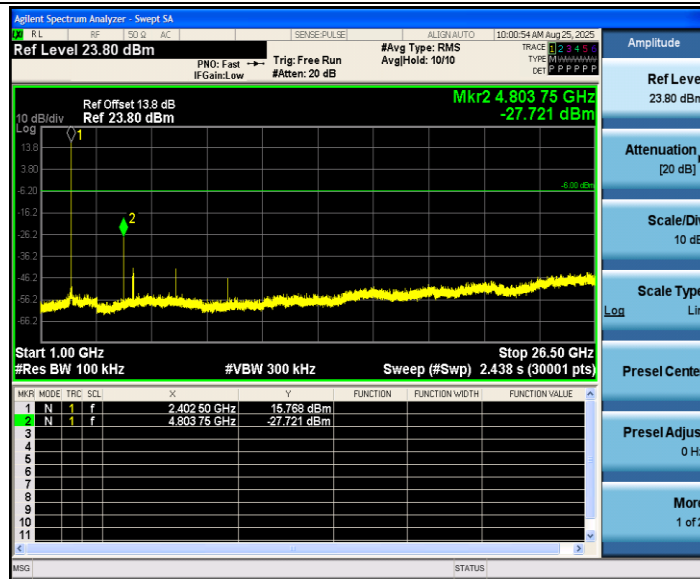
Appendix H: Conducted Spurious Emission

Test Result

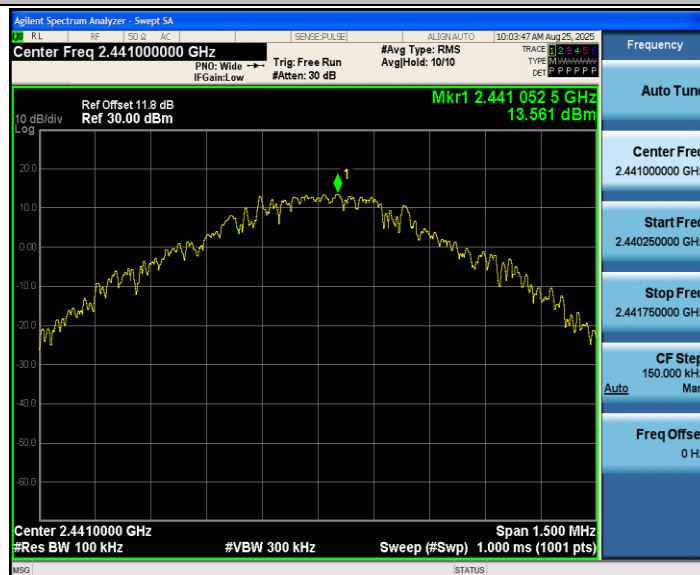
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	14.00	14.00	---	PASS
			30~1000	14.00	-56.42	≤-6	PASS
			1000~26500	14.00	-27.72	≤-6	PASS
		2441	Reference	13.56	13.56	---	PASS
			30~1000	13.56	-56.73	≤-6.44	PASS
			1000~26500	13.56	-29.74	≤-6.44	PASS
		2480	Reference	13.05	13.05	---	PASS
			30~1000	13.05	-56.09	≤-6.95	PASS
			1000~26500	13.05	-28.16	≤-6.95	PASS

Test Graphs

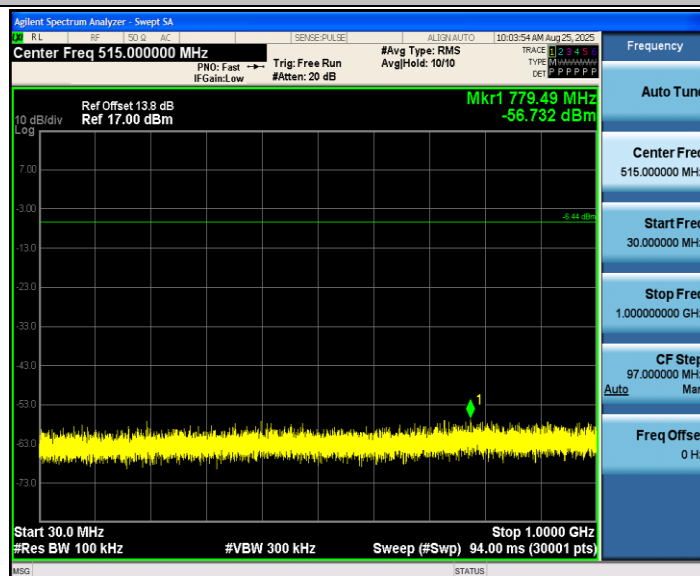




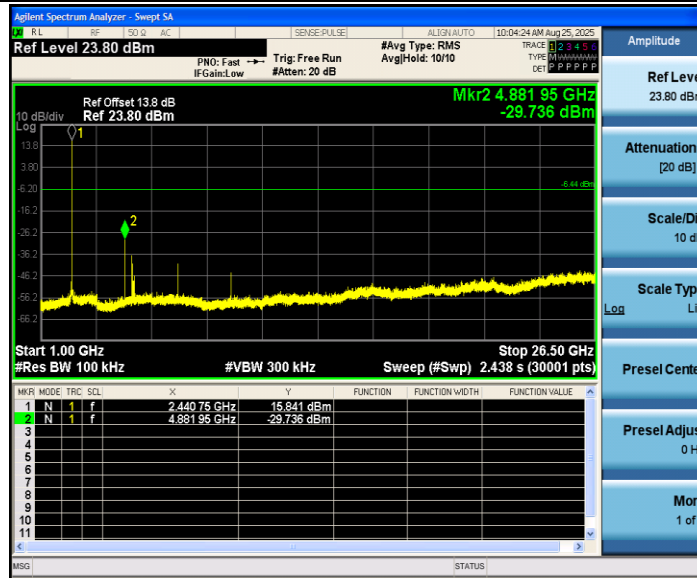
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



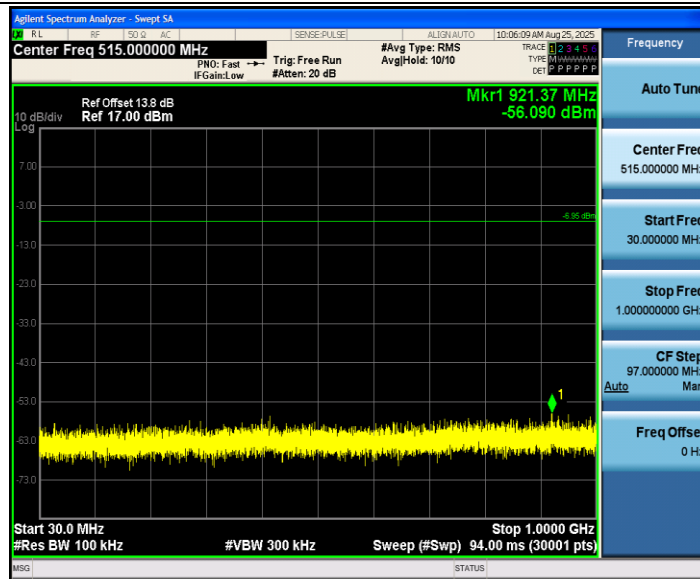
DH5_Ant1_2441_1000~26500



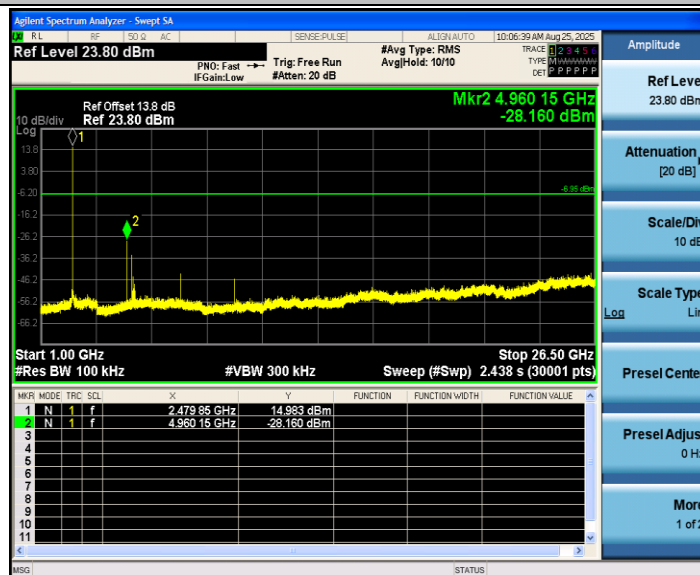
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



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	---	---

DH5_Ant1_2402

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.402000000 GHz

Trig Delay: 200.0 μ s #Avg Type: RMS

Ref Offset 11.8 dB Ref 30.00 dBm

Δ Mkr3 3.750 ms 0.07 dB

Center 2.402000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 5.000 ms (1001 pts)

MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	180.0 μ s	0.33 dBm			
2	Δ 1	1	t	(Δ)	2.910 ms	(Δ)		-1.89 dB
3	Δ 1	1	t	(Δ)	3.750 ms	(Δ)		0.07 dB

DH5_Ant1_2441

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

Trig Delay: 200.0 μ s #Avg Type: RMS

Ref Offset 11.8 dB Ref 30.00 dBm

Δ Mkr3 3.750 ms 0.25 dB

Center 2.441000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 5.000 ms (1001 pts)

MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	180.0 μ s	-4.00 dBm			
2	Δ 1	1	t	(Δ)	2.910 ms	(Δ)		17.44 dB
3	Δ 1	1	t	(Δ)	3.750 ms	(Δ)		0.25 dB

