

FCC Appendix RF Test Data

FCC ID : 2BEMR-C39

Company : Shenzhen Baiyin Technology Co., LTD

EUT : Car Bluetooth Charger

Model Number : C39

Report No. : CTA25071801601

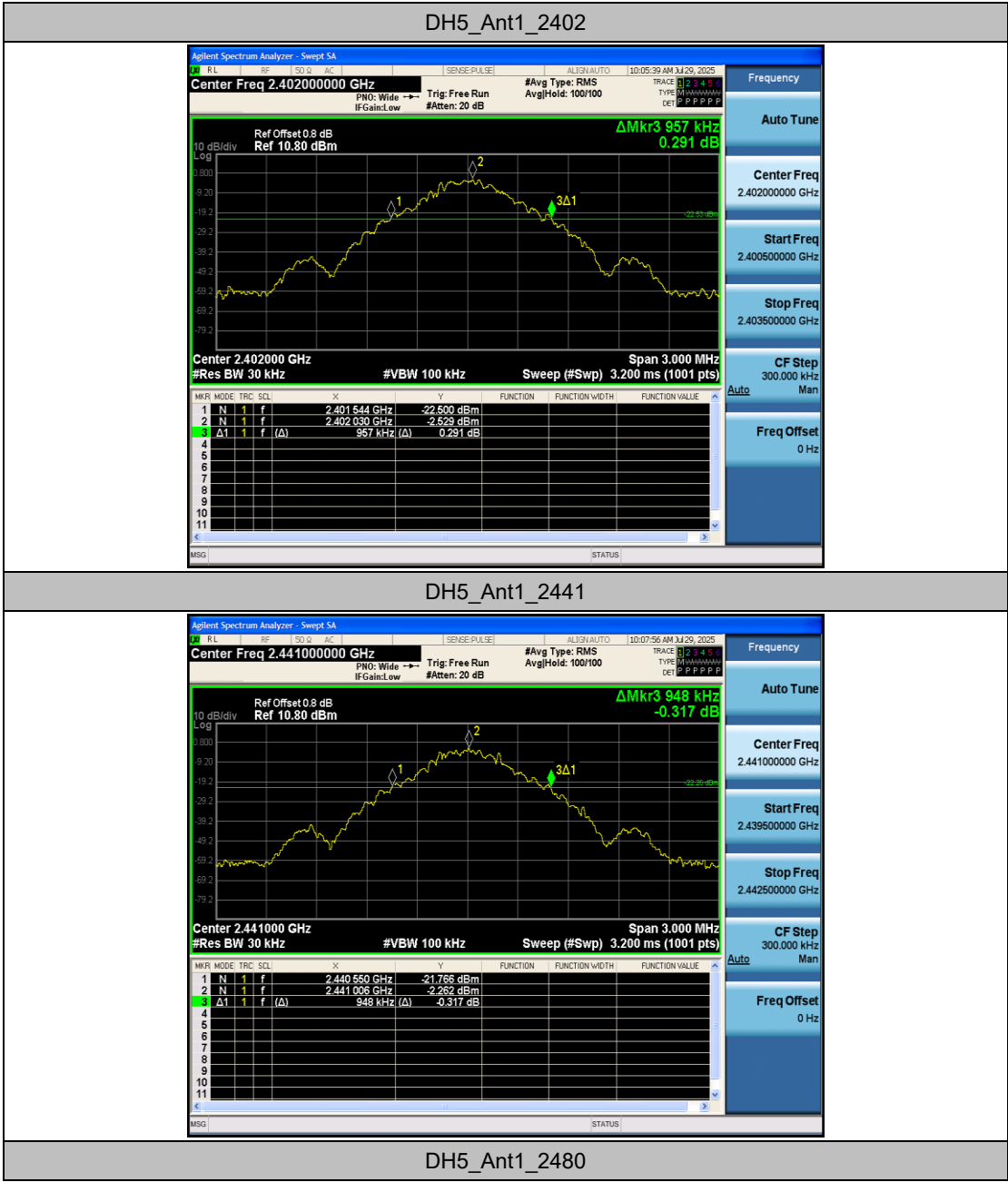
Reviewed By : Eric Wang

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	2401.544	2402.501	---	---
		2441	0.948	2440.550	2441.498	---	---
		2480	0.948	2479.547	2480.495	---	---
2DH5	Ant1	2402	1.320	2401.346	2402.666	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.326	2479.343	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

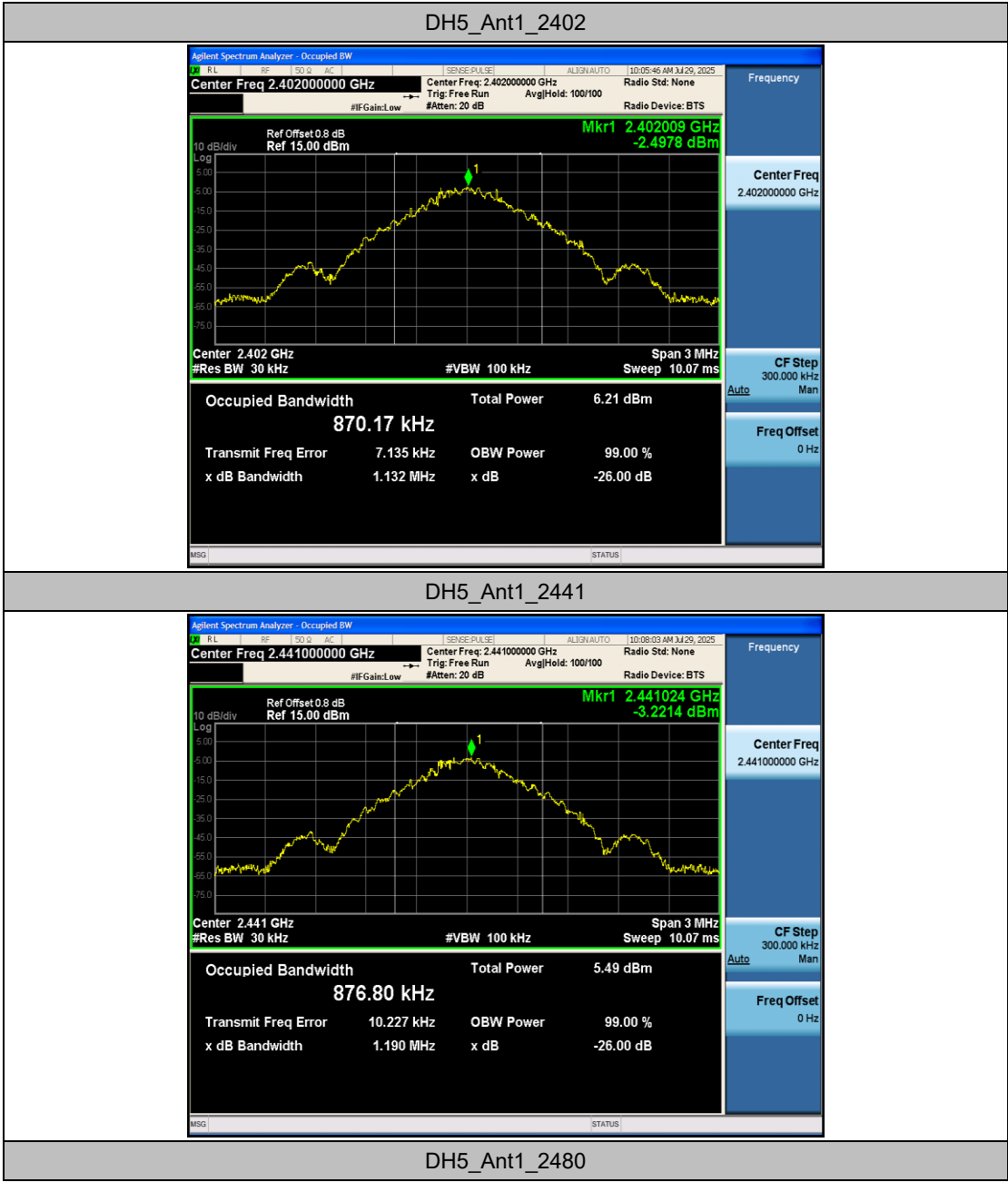


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87017	2401.5720	2402.4422	---	---
		2441	0.87680	2440.5718	2441.4486	---	---
		2480	0.87305	2479.5714	2480.4445	---	---
2DH5	Ant1	2402	1.1821	2401.4175	2402.5996	---	---
		2441	1.1826	2440.4173	2441.5999	---	---
		2480	1.1926	2479.4133	2480.6059	---	---

Test Graphs

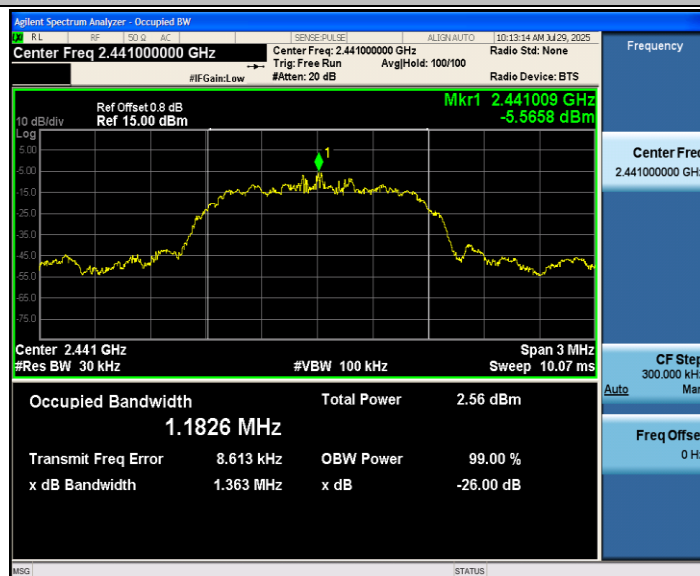




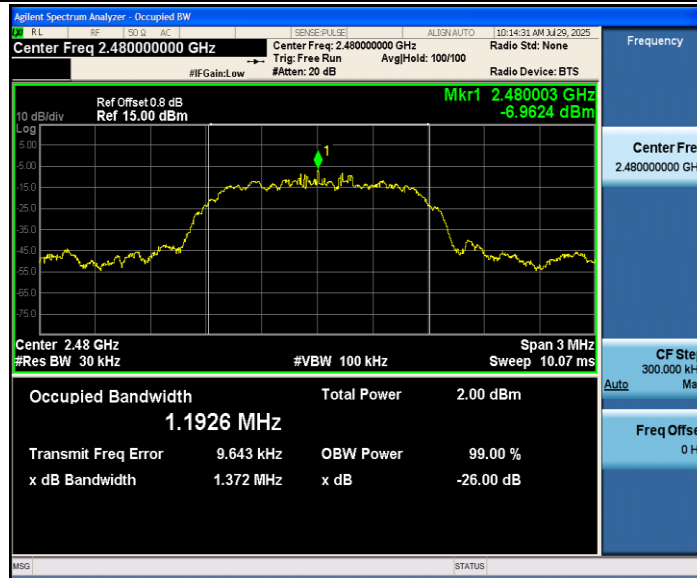
2DH5_Ant1_2402



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	0.37	≤20.97	PASS
		2441	-0.22	≤20.97	PASS
		2480	-0.57	≤20.97	PASS
2DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	-0.99	≤20.97	PASS
		2480	-1.34	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.957	PASS
2DH5	Ant1	Hop	1.132	≥ 0.884	PASS

Test Graphs

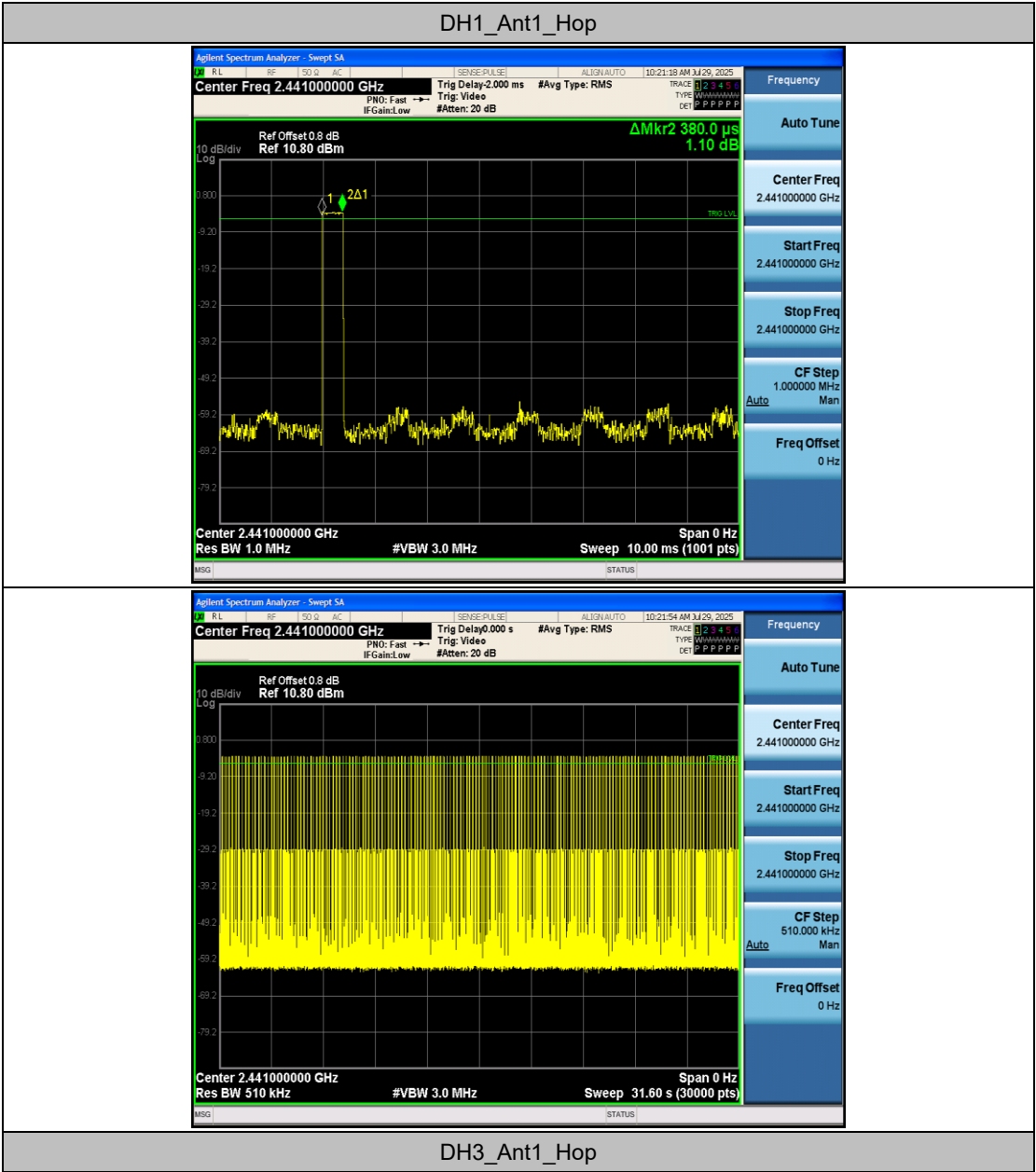


Appendix E: Time of occupancy

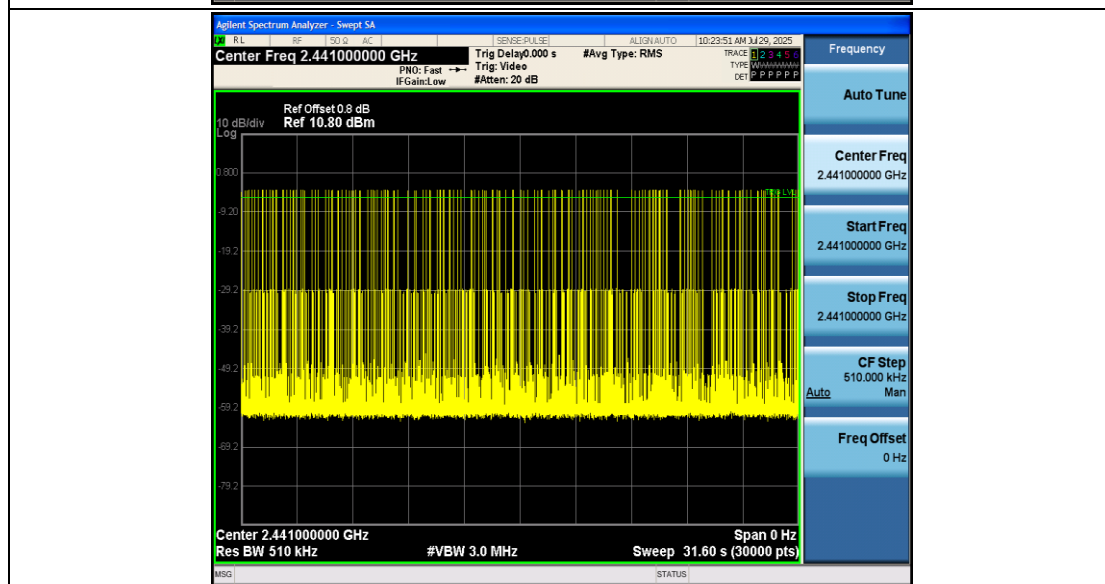
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	315	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.640	164	0.269	≤0.4	PASS
DH5	Ant1	Hop	2.890	122	0.353	≤0.4	PASS
2DH1	Ant1	Hop	0.390	314	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.640	171	0.28	≤0.4	PASS
2DH5	Ant1	Hop	2.900	100	0.29	≤0.4	PASS

Test Graphs

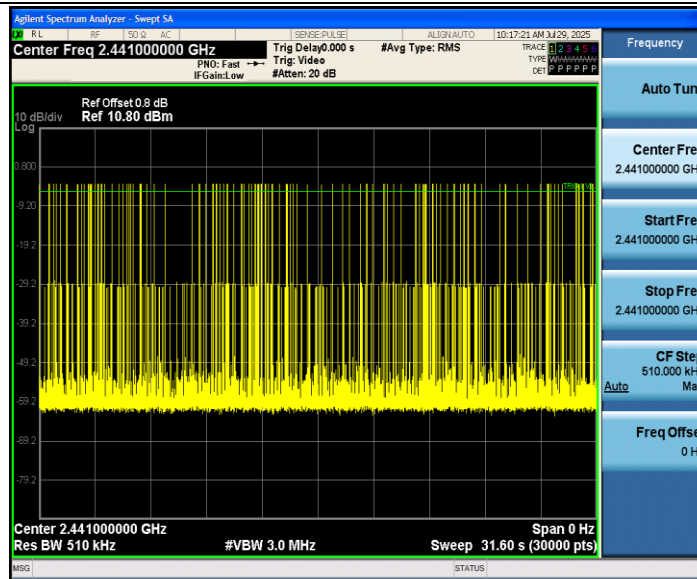


DH3_Ant1_Hop

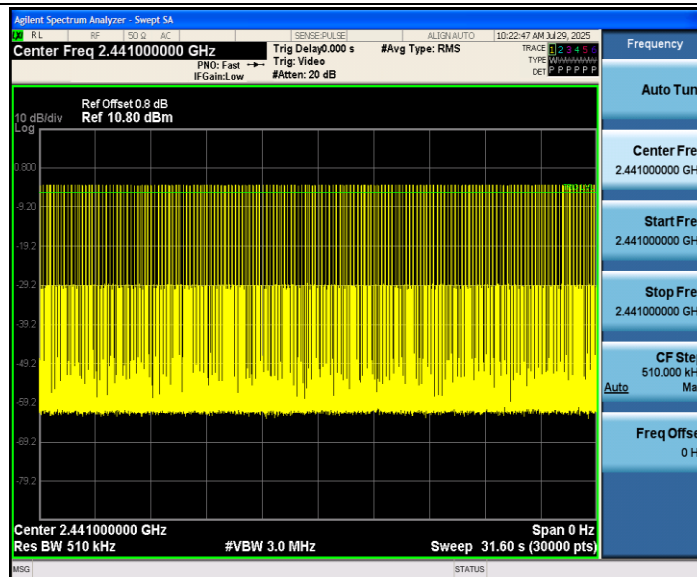


DH5_Ant1_Hop

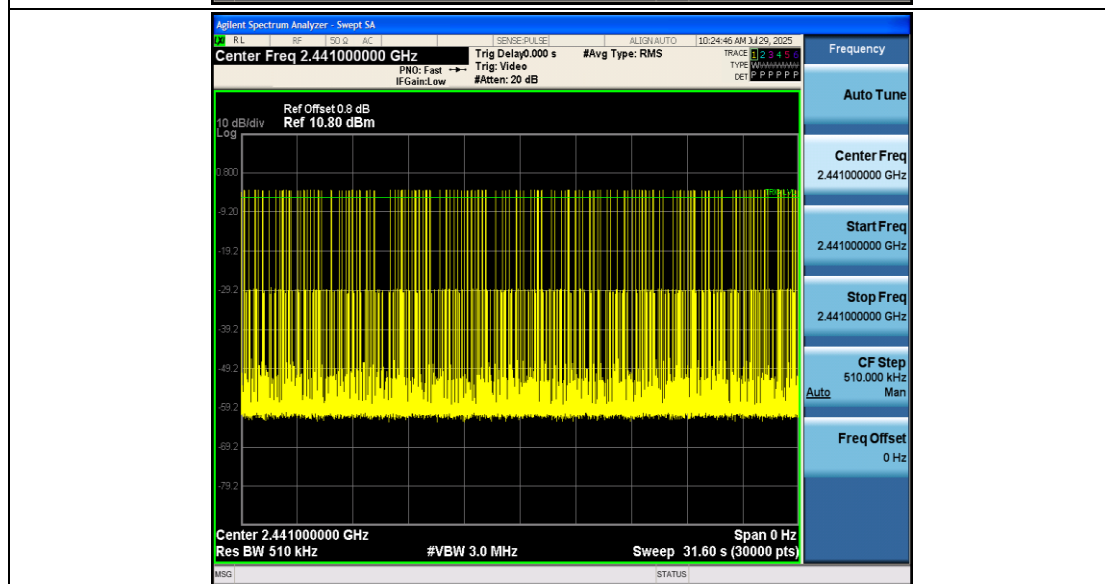




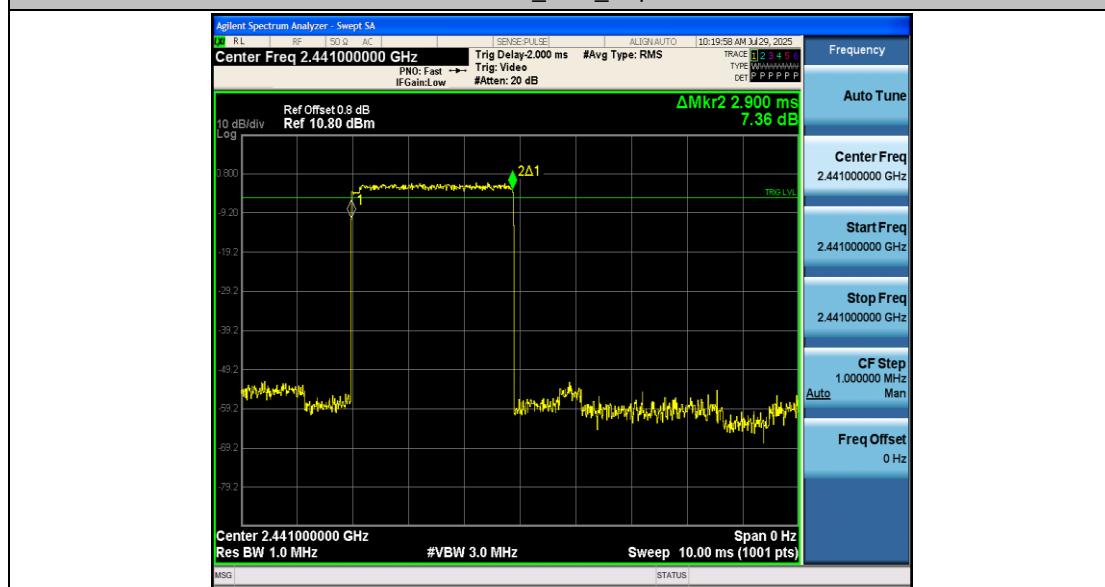
2DH1_Ant1_Hop

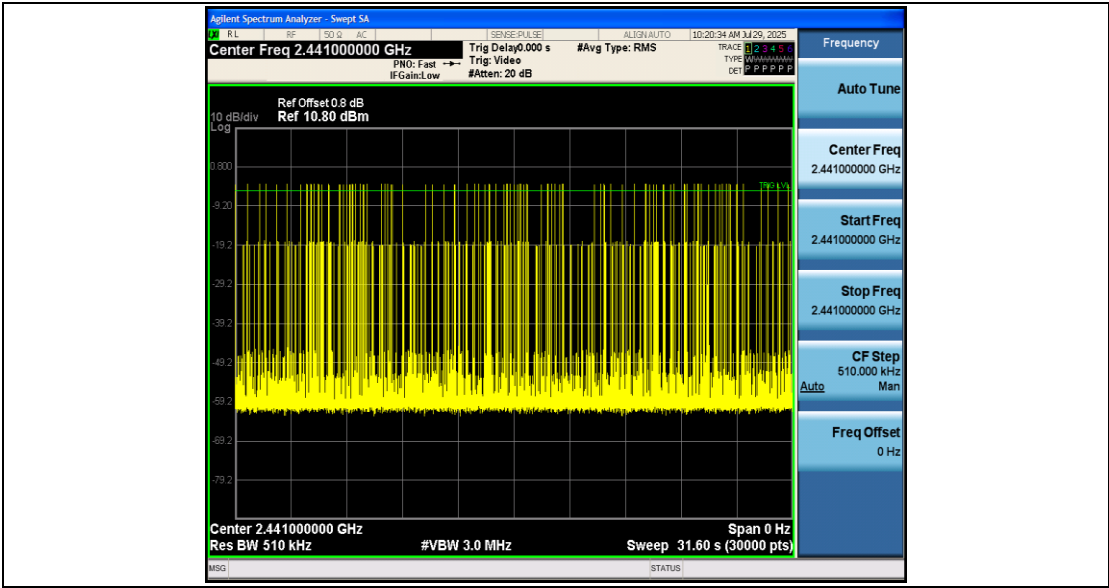


2DH3_Ant1_Hop



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

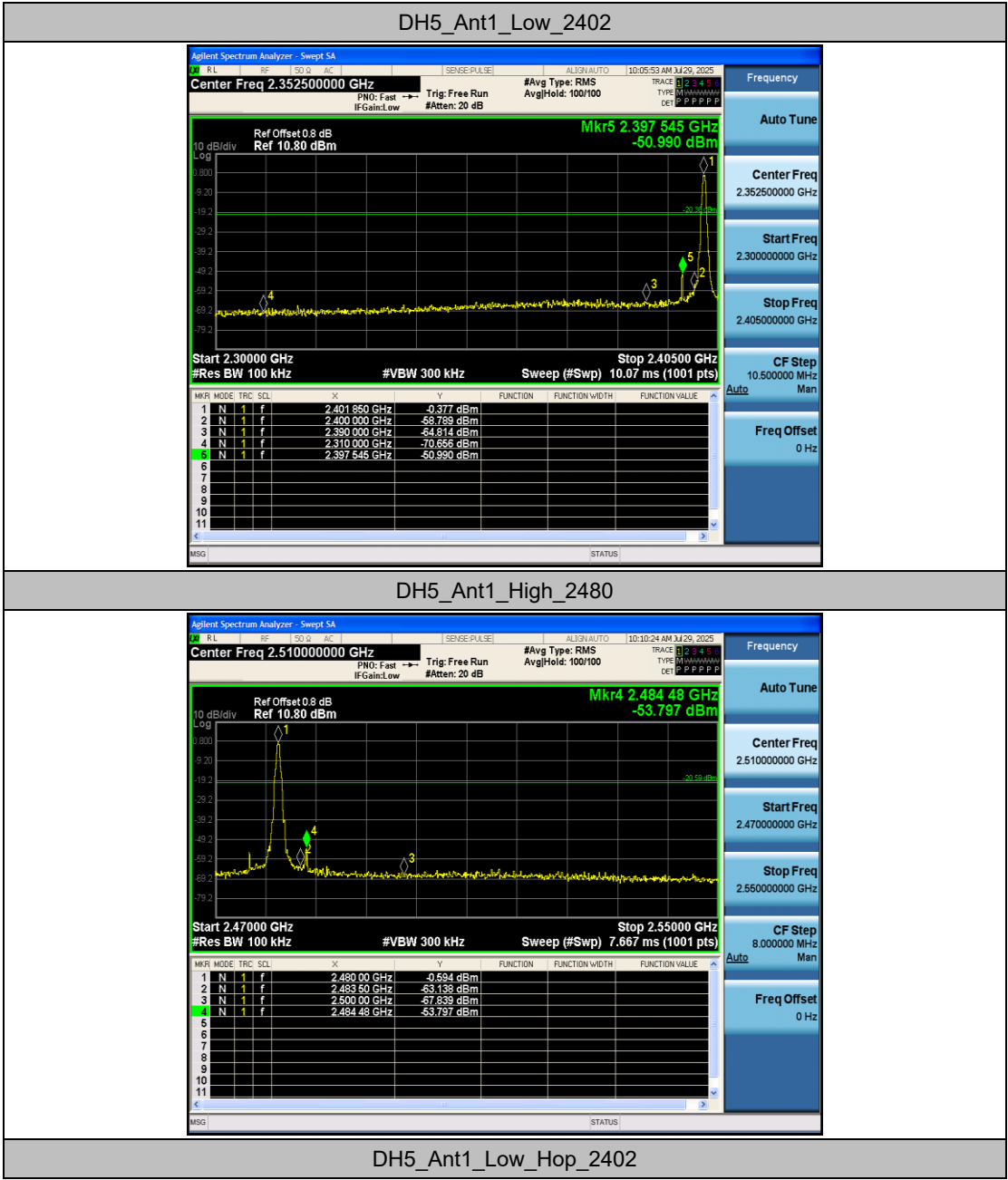


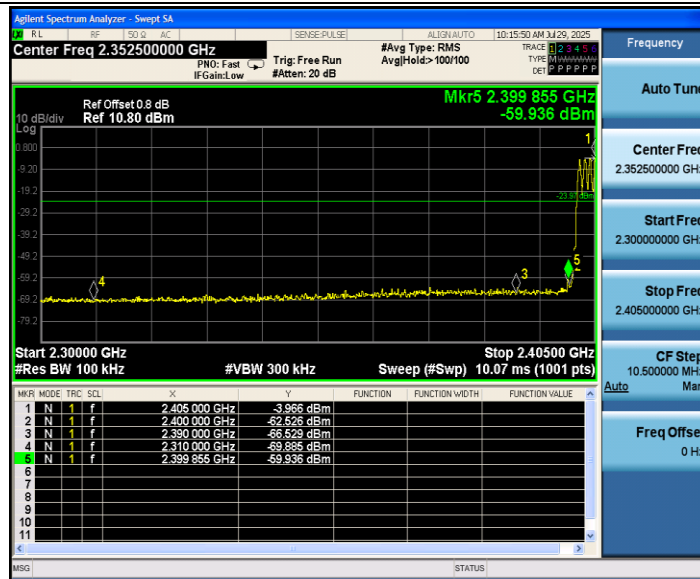
Appendix G: Band edge measurements

Test Result

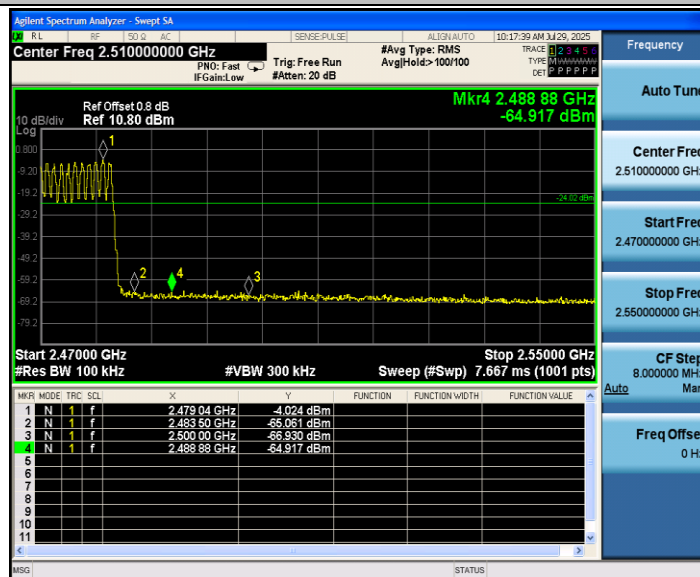
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.38	-50.99	≤-20.38	PASS
		High	2480	-0.59	-53.8	≤-20.59	PASS
		Low	Hop_2402	-3.97	-59.94	≤-23.97	PASS
		High	Hop_2480	-4.02	-64.92	≤-24.02	PASS
2DH5	Ant1	Low	2402	-3.06	-57.26	≤-23.06	PASS
		High	2480	-5.41	-55.31	≤-25.41	PASS
		Low	Hop_2402	-6.27	-62.56	≤-26.27	PASS
		High	Hop_2480	-5.46	-64.05	≤-25.46	PASS

Test Graphs

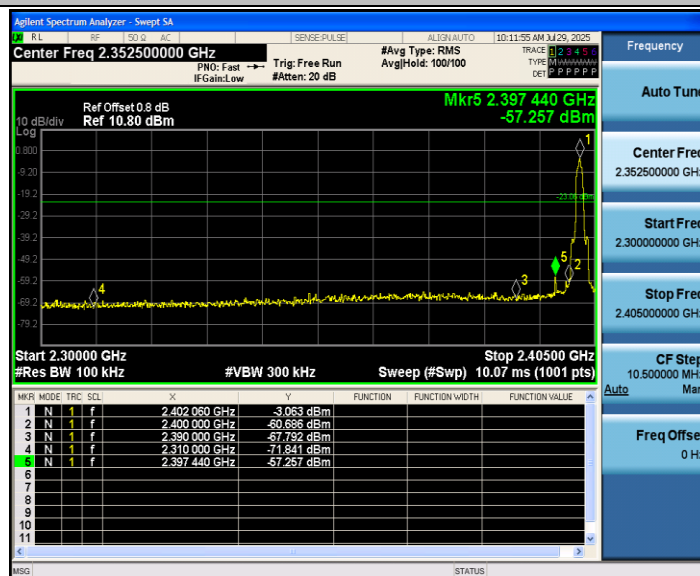




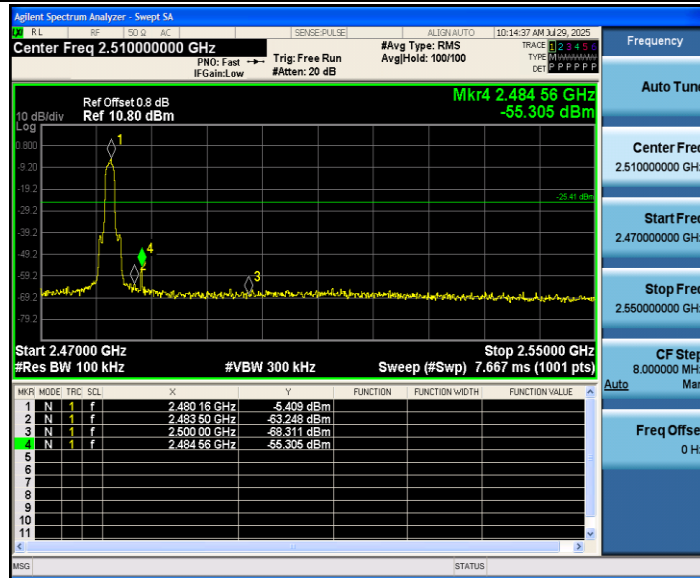
DH5_Ant1_High_Hop_2480



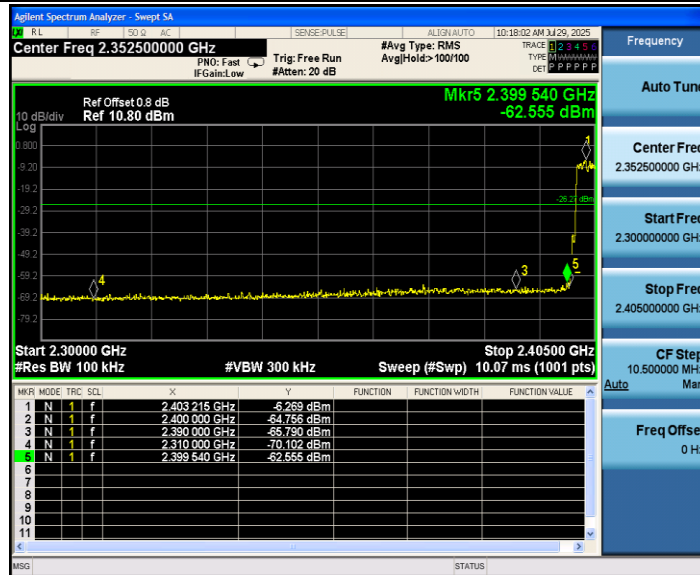
2DH5_Ant1_Low_2402



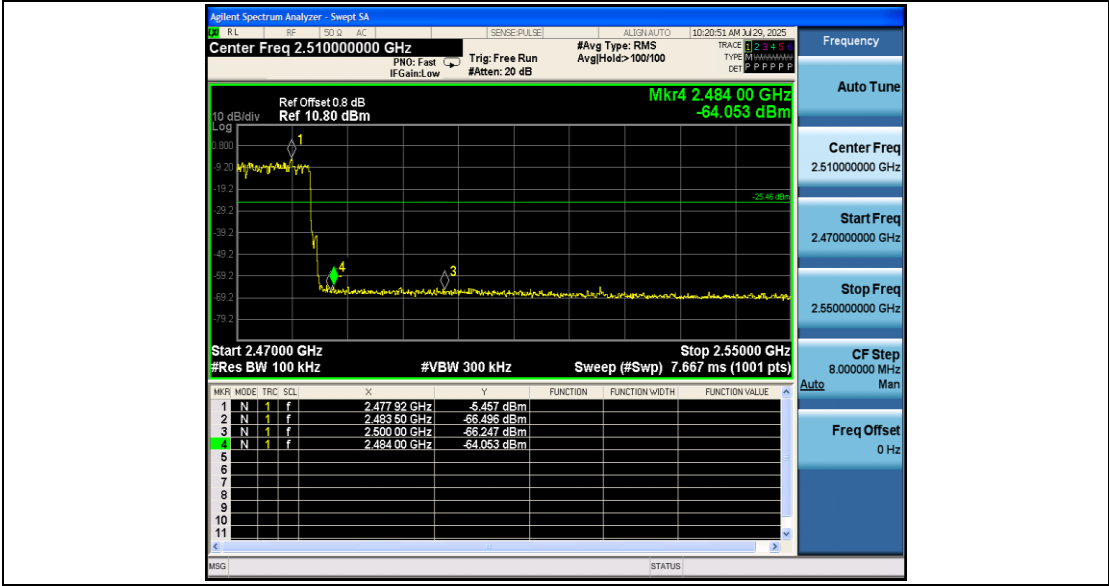
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

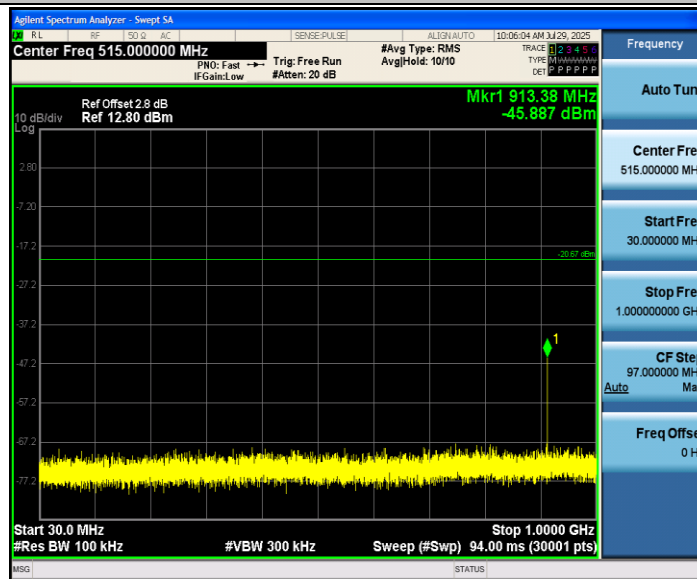
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-45.89	≤-20.67	PASS
			1000~26500	-0.67	-42.75	≤-20.67	PASS
		2441	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-53.29	≤-21.63	PASS
			1000~26500	-1.63	-43.69	≤-21.63	PASS
		2480	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-27.8	≤-21.2	PASS
			1000~26500	-1.20	-44.9	≤-21.2	PASS
2DH5	Ant1	2402	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-68.02	≤-23.79	PASS
			1000~26500	-3.79	-45.34	≤-23.79	PASS
		2441	Reference	-6.07	-6.07	---	PASS
			30~1000	-6.07	-39.19	≤-26.07	PASS
			1000~26500	-6.07	-47.86	≤-26.07	PASS
		2480	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-49.25	≤-25.11	PASS
			1000~26500	-5.11	-50.33	≤-25.11	PASS

Test Graphs

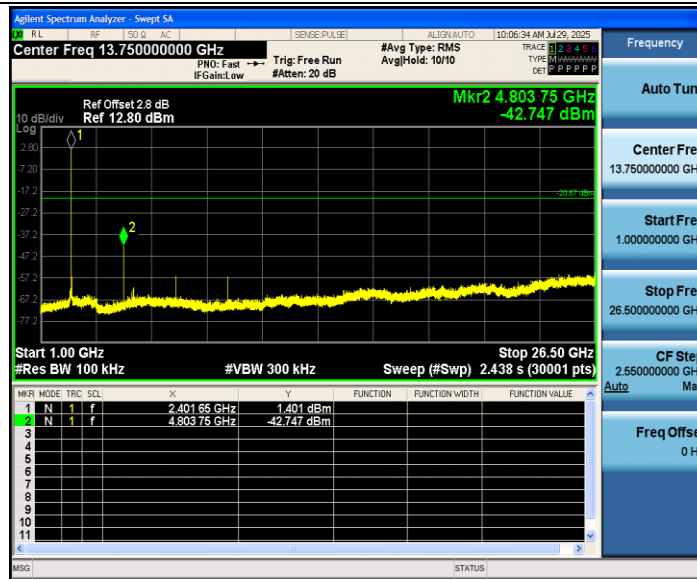
DH5_Ant1_2402_0~Reference



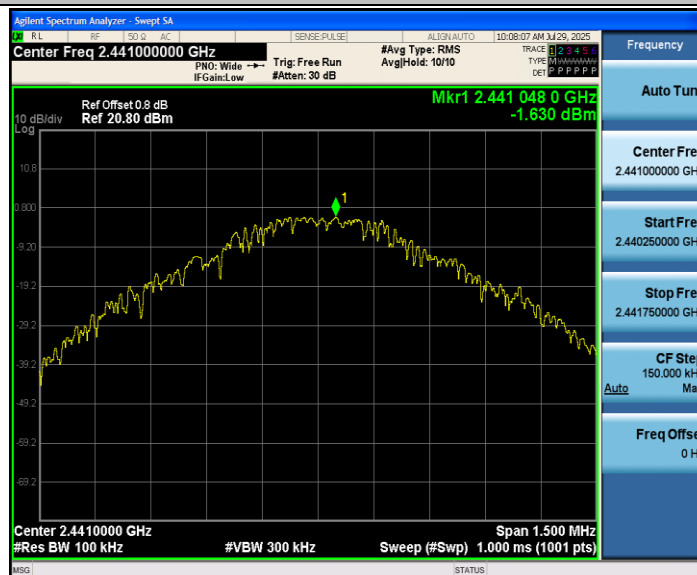
DH5_Ant1_2402_30~1000



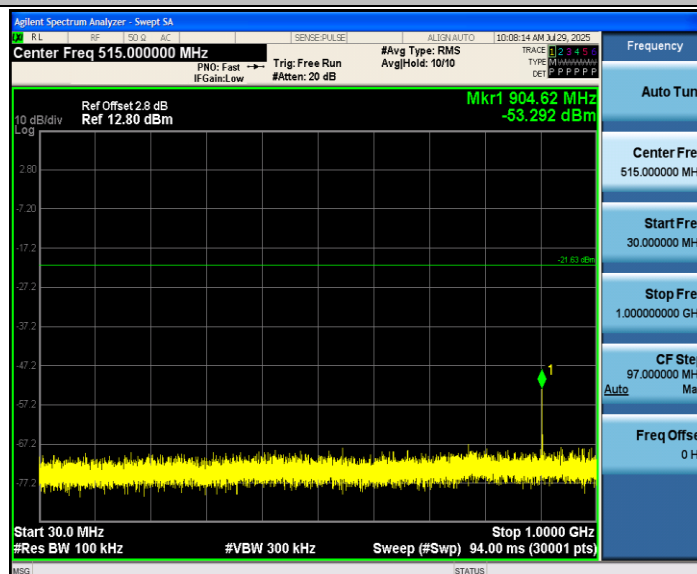
DH5_Ant1_2402_1000~26500



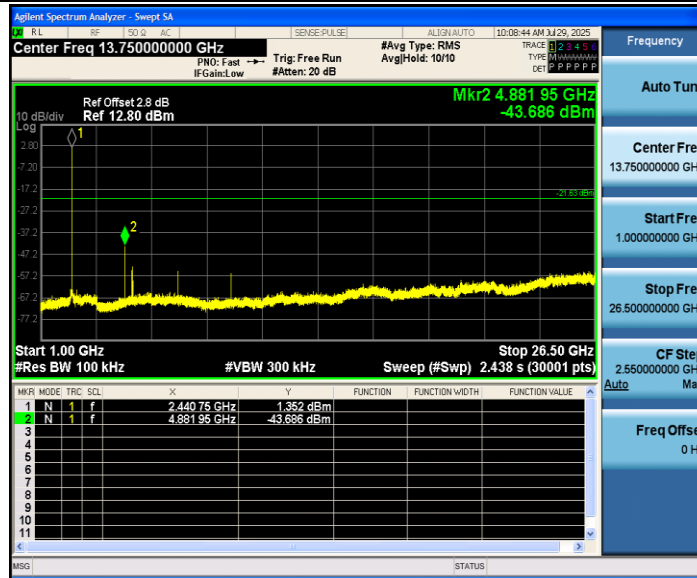
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



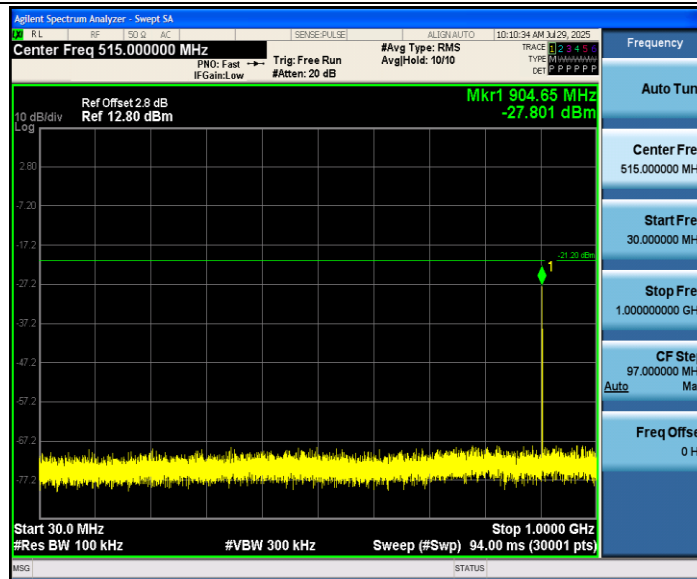
DH5_Ant1_2441_1000~26500



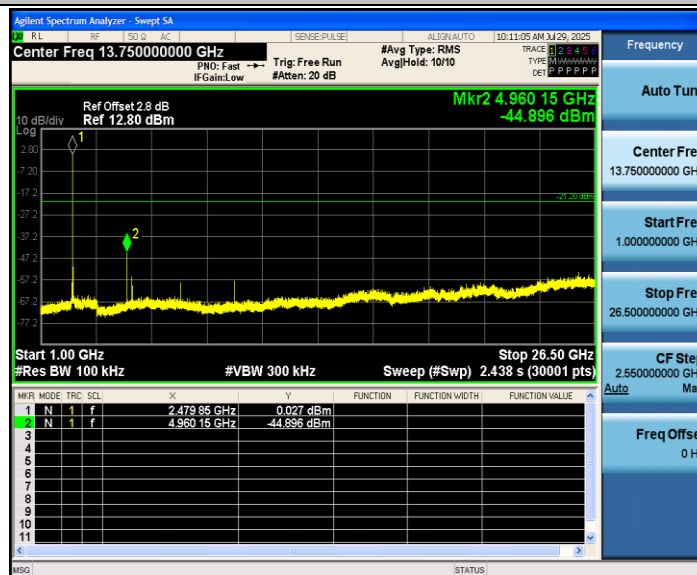
DH5_Ant1_2480_0~Reference



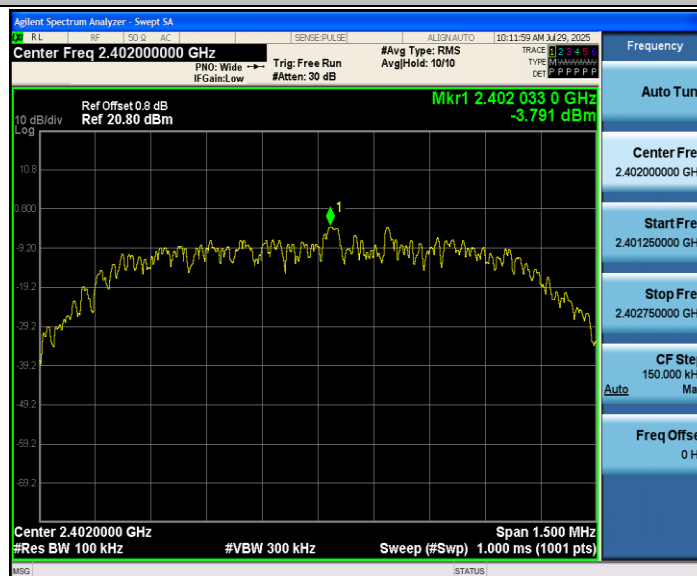
DH5_Ant1_2480_30~1000



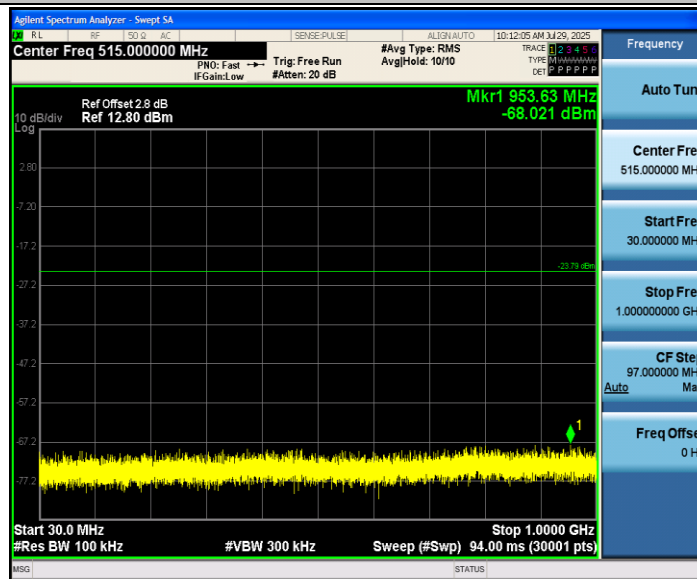
DH5_Ant1_2480_1000~26500



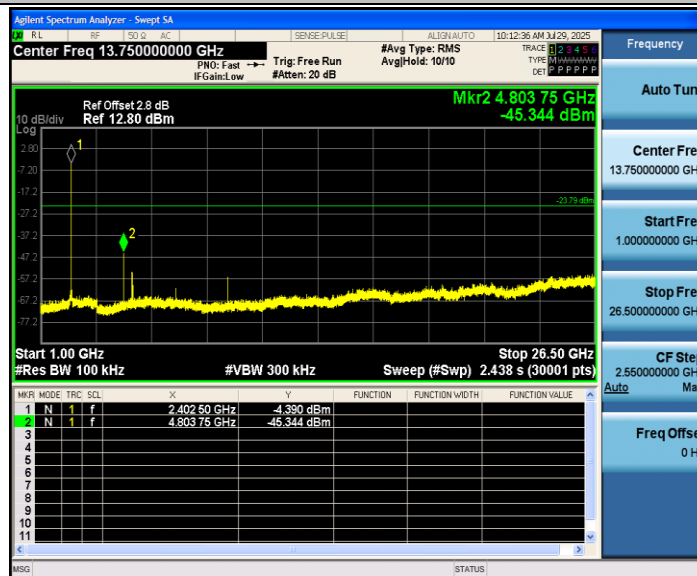
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



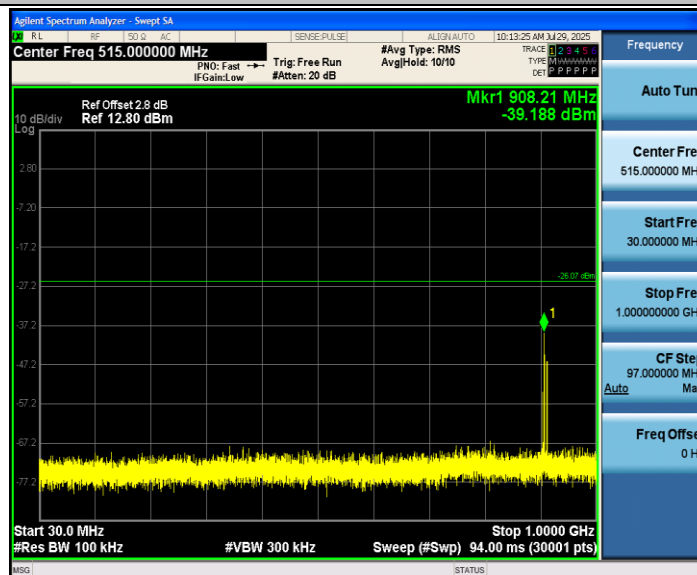
2DH5_Ant1_2402_1000~26500



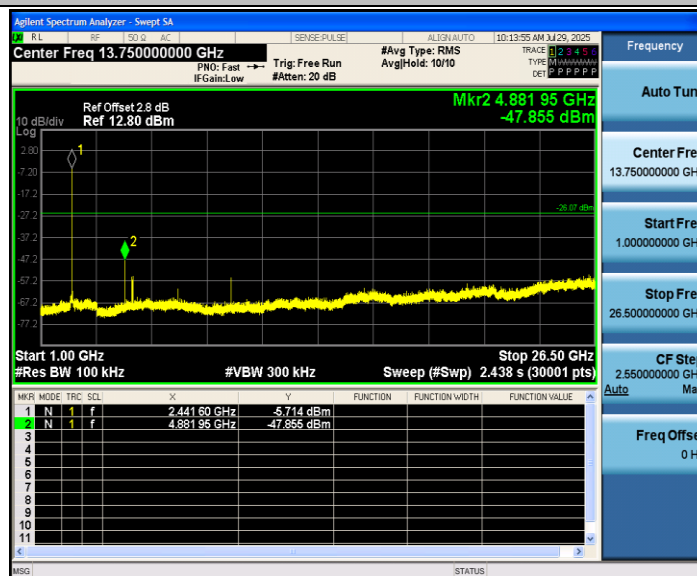
2DH5_Ant1_2441_0~Reference



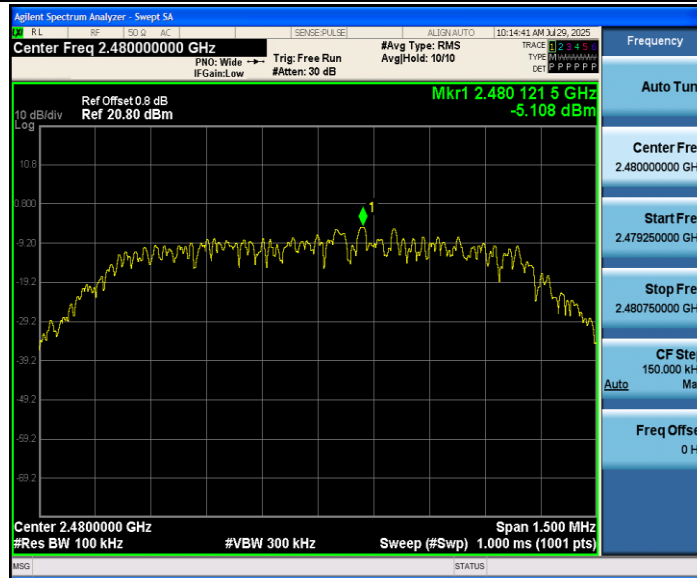
2DH5_Ant1_2441_30~1000



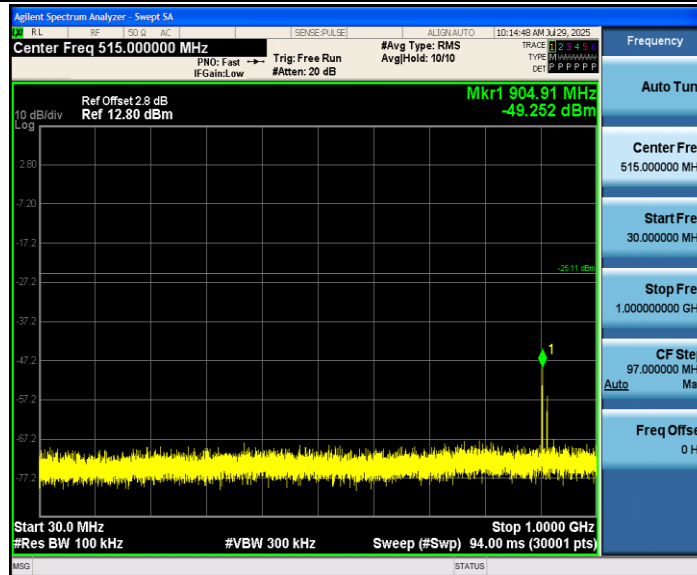
2DH5_Ant1_2441_1000~26500



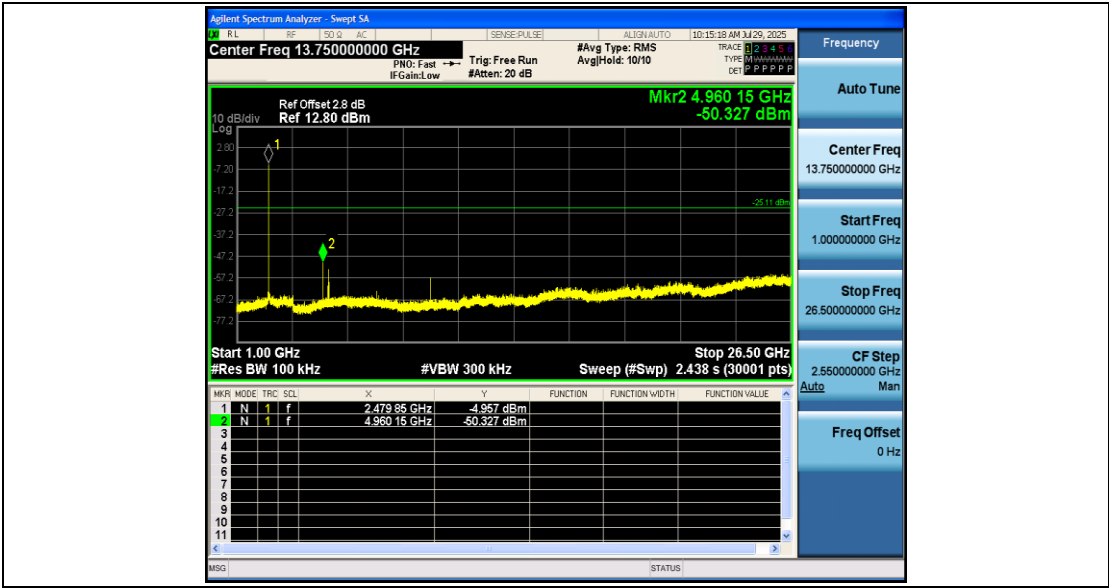
2DH5_Ant1_2480_0~Reference



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	2.92	3.75	77.87	1.09	---	---

DH5_Ant1_2402

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.402000000 GHz

Trig Delay: 200.0 μ s #Avg Type: RMS

Ref Offset 0.8 dB Ref 20.00 dBm

Δ Mkr3 3.750 ms 0.04 dB

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

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	180.0 μ s	-22.93 dBm			
2	Δ 1	1	t	(Δ)	2.920 ms (Δ)	-21.88 dB		
3	Δ 1	1	t	(Δ)	3.750 ms (Δ)	0.04 dB		

DH5_Ant1_2441

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

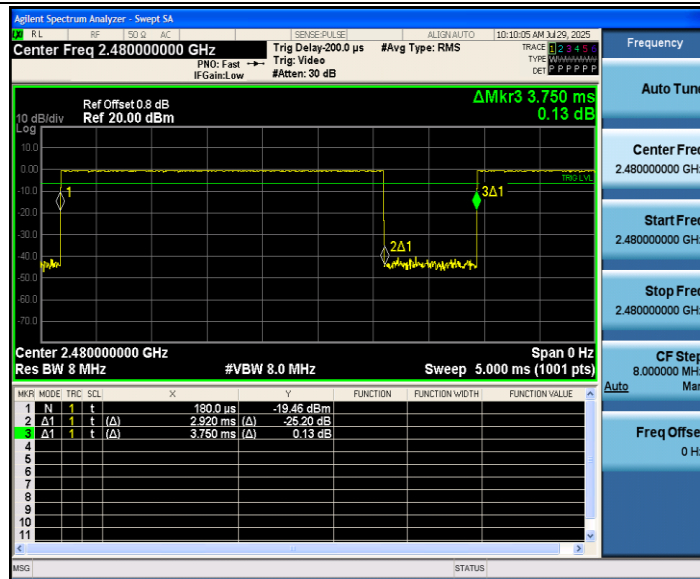
Trig Delay: 200.0 μ s #Avg Type: RMS

Ref Offset 0.8 dB Ref 20.00 dBm

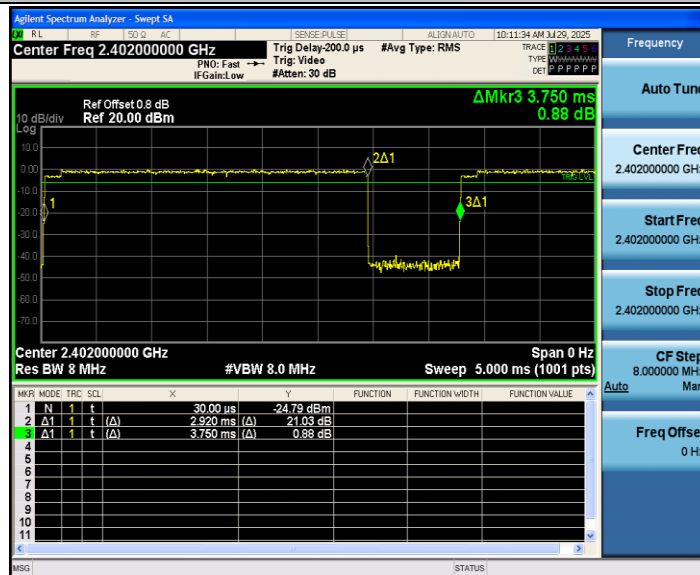
Δ Mkr3 3.750 ms 0.25 dB

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

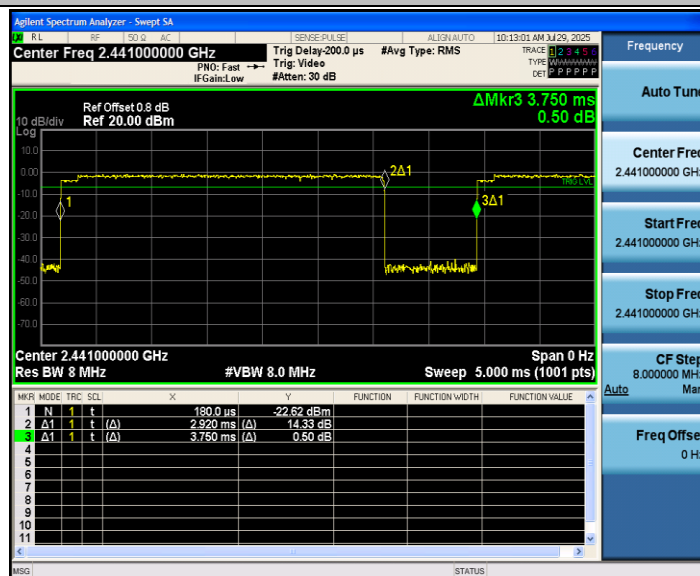
MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	180.0 μ s	-16.77 dBm			
2	Δ 1	1	t	(Δ)	2.910 ms (Δ)	15.15 dB		
3	Δ 1	1	t	(Δ)	3.750 ms (Δ)	0.25 dB		



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

