

FCC Appendix RF Test Data

FCC ID : 2A35W-H96MAXRK3518

Company: : Shenzhen Haochuangyi Technology Co.,Ltd.

EUT : H96 Max RK3518

Model Number : H96 Max RK3518

Report No. : CTA25040900501

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	2401.544	2402.495	---	---
		2441	0.951	2440.544	2441.495	---	---
		2480	0.963	2479.541	2480.504	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.329	2440.343	2441.672	---	---
		2480	1.266	2479.391	2480.657	---	---
3DH5	Ant1	2402	1.278	2401.382	2402.660	---	---
		2441	1.260	2440.400	2441.660	---	---
		2480	1.329	2479.346	2480.675	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_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	0.86890	2401.5750	2402.4439	---	---
		2441	0.86499	2440.5771	2441.4421	---	---
		2480	0.87281	2479.5723	2480.4451	---	---
2DH5	Ant1	2402	1.1885	2401.4151	2402.6036	---	---
		2441	1.1844	2440.4170	2441.6014	---	---
		2480	1.1894	2479.4159	2480.6053	---	---
3DH5	Ant1	2402	1.1860	2401.4164	2402.6024	---	---
		2441	1.1918	2440.4146	2441.6064	---	---
		2480	1.1868	2479.4184	2480.6052	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_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	0.29	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.59	≤20.97	PASS
2DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-1.10	≤20.97	PASS
		2480	-1.41	≤20.97	PASS
3DH5	Ant1	2402	-0.54	≤20.97	PASS
		2441	-1.10	≤20.97	PASS
		2480	-1.40	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.963	PASS
2DH5	Ant1	Hop	1.156	≥ 0.886	PASS
3DH5	Ant1	Hop	1.184	≥ 0.886	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

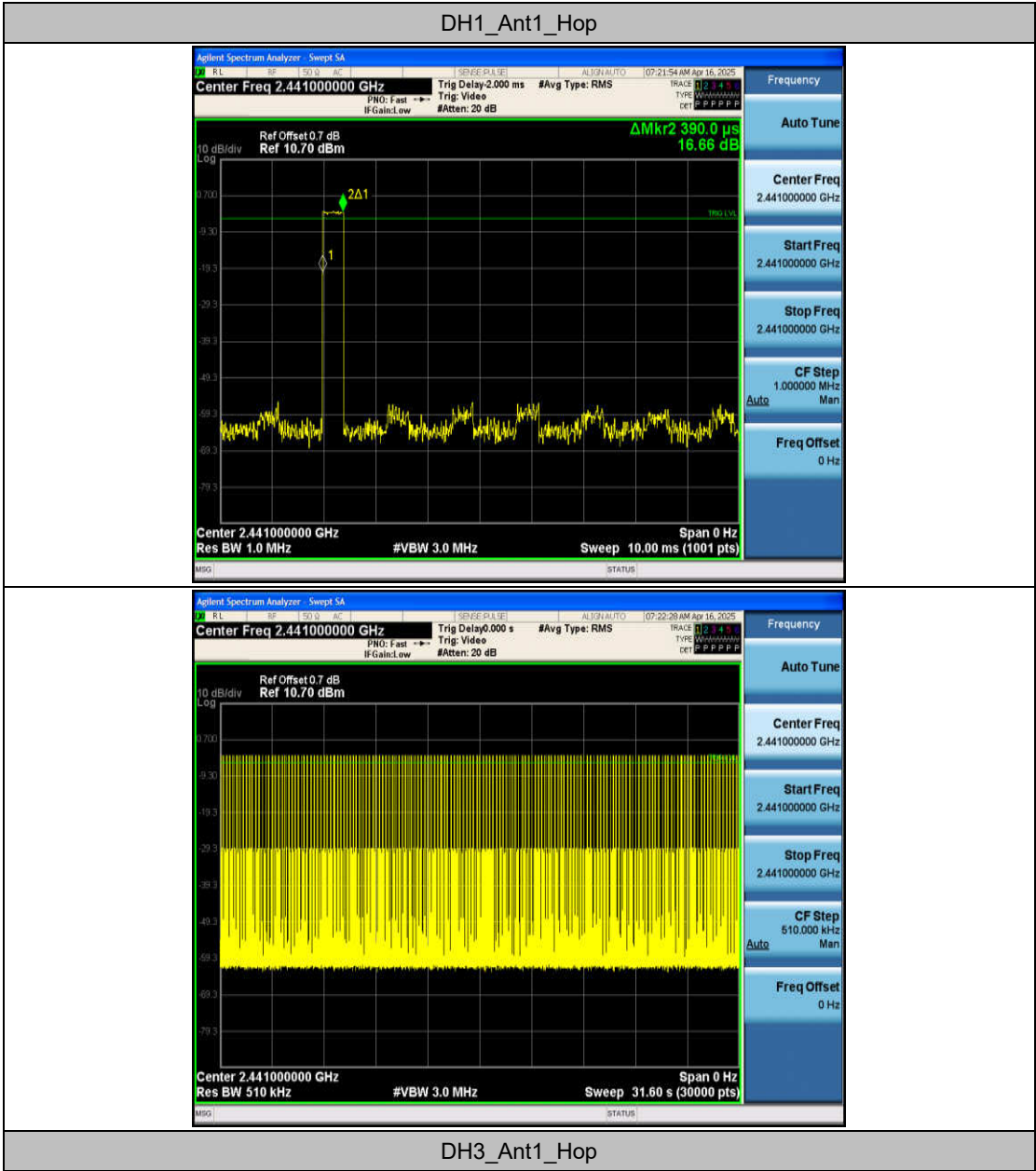


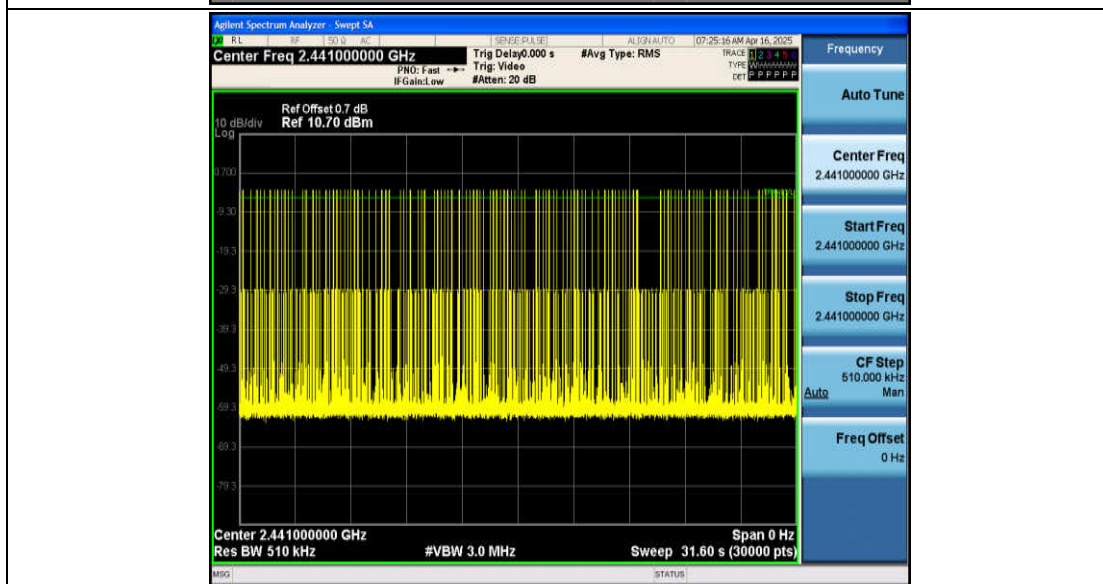
Appendix E: Time of occupancy

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	1.640	159	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.900	99	0.287	≤0.4	PASS
2DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	156	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.890	113	0.327	≤0.4	PASS
3DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.650	162	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.900	112	0.325	≤0.4	PASS

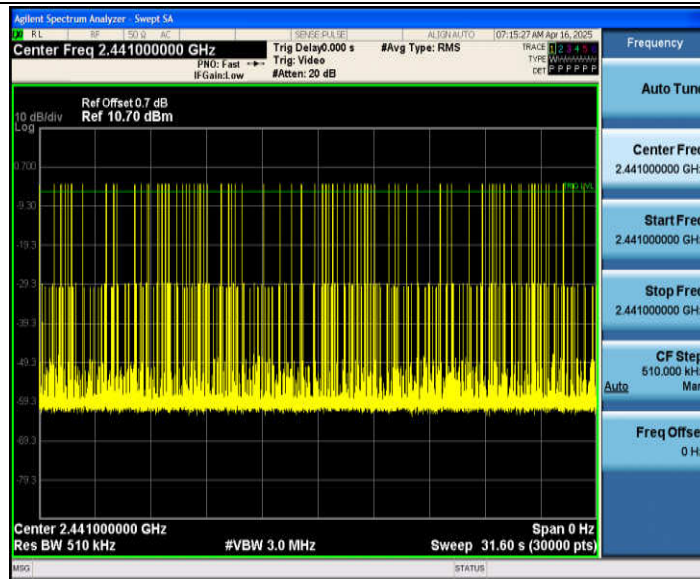
Test Graphs



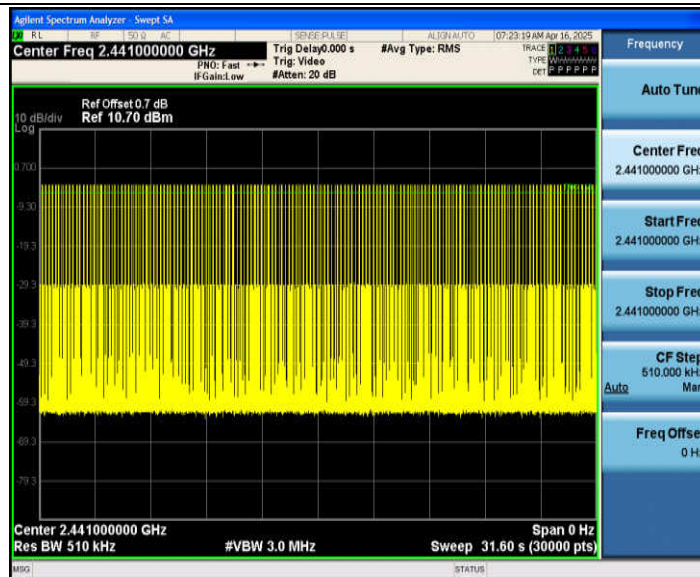
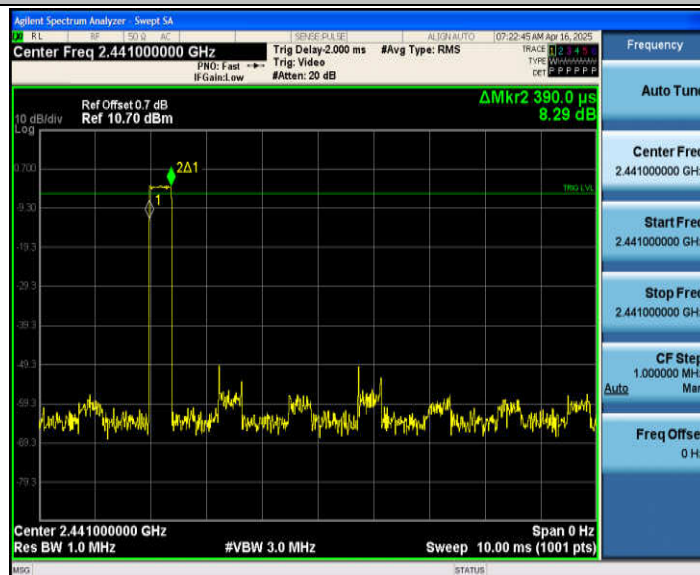


DH5_Ant1_Hop

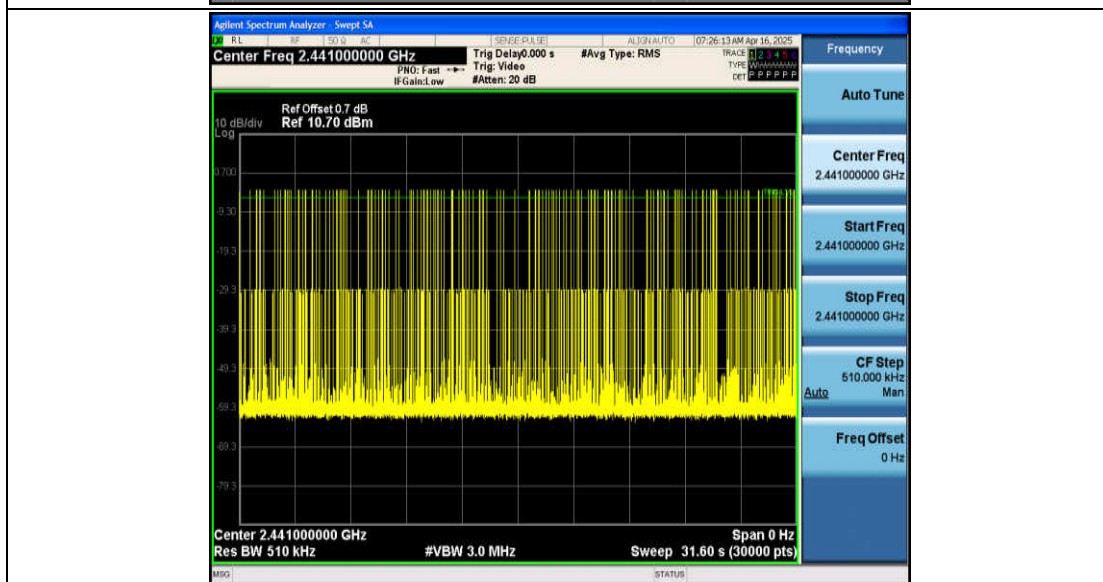




2DH1_Ant1_Hop

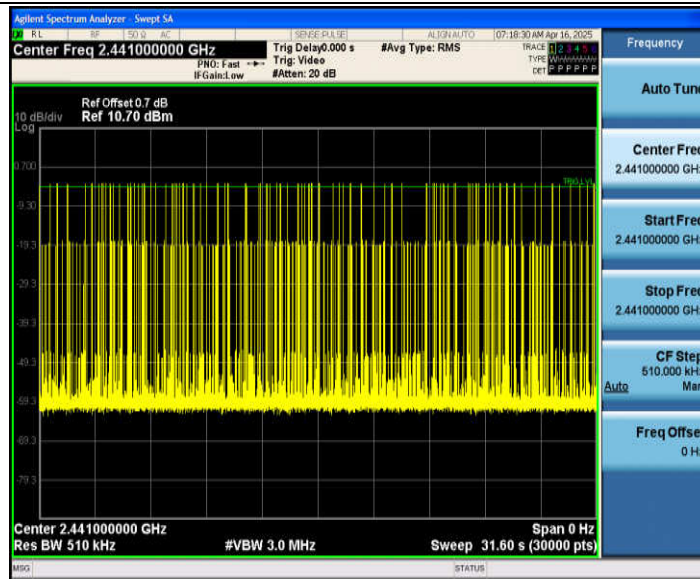


2DH3_Ant1_Hop

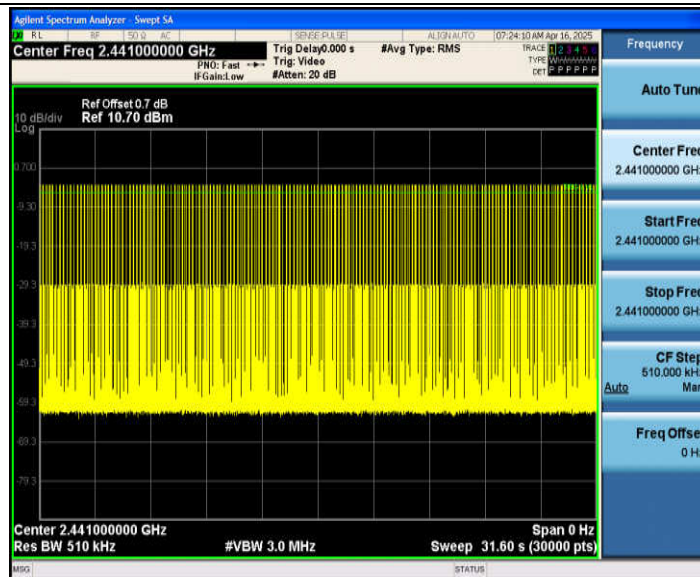


2DH5_Ant1_Hop

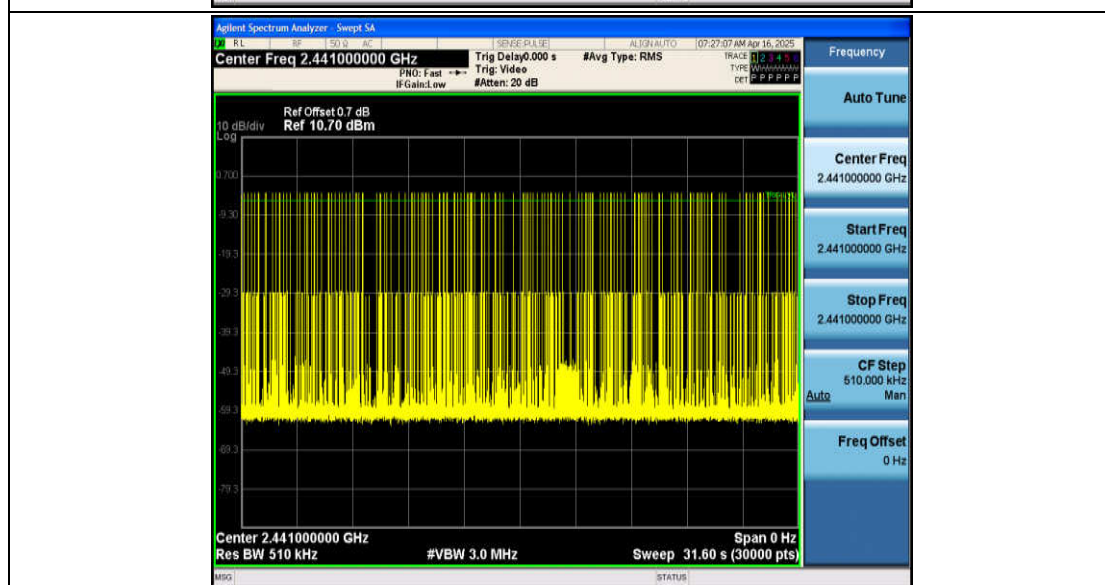




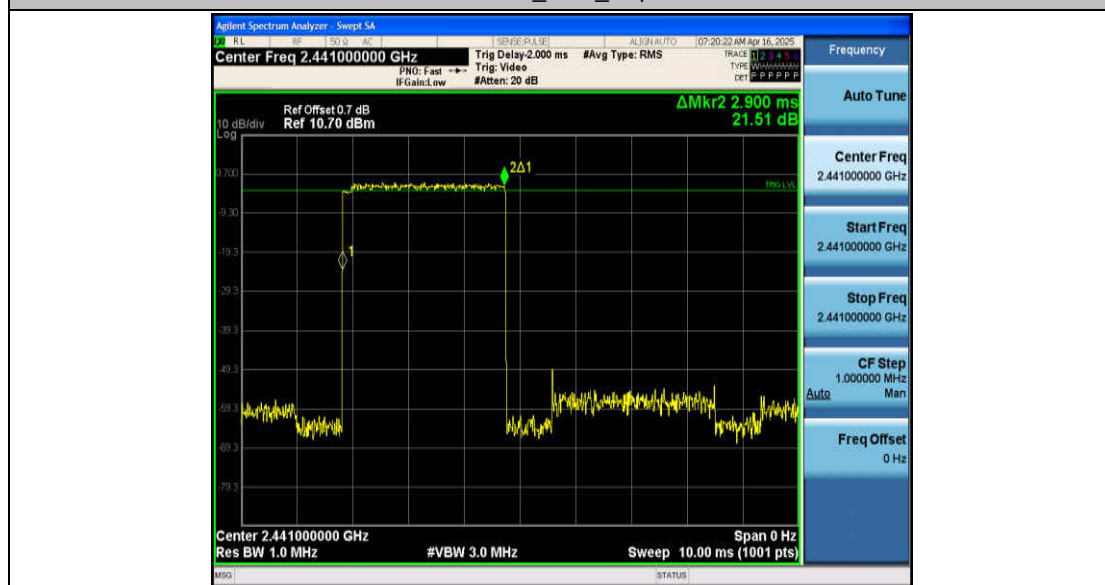
3DH1_Ant1_Hop

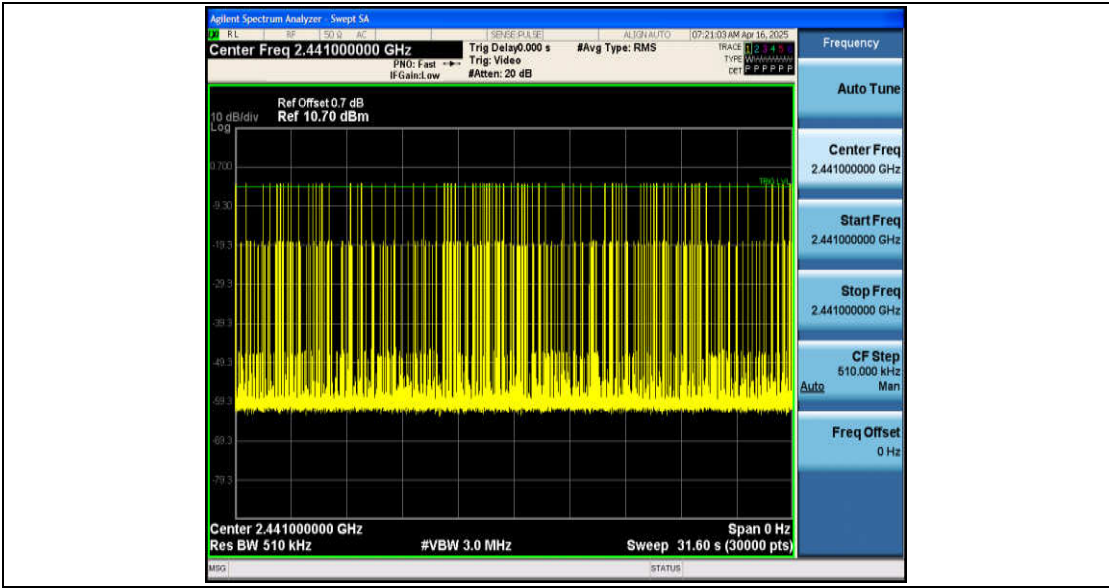


3DH3_Ant1_Hop



3DH5_Ant1_Hop



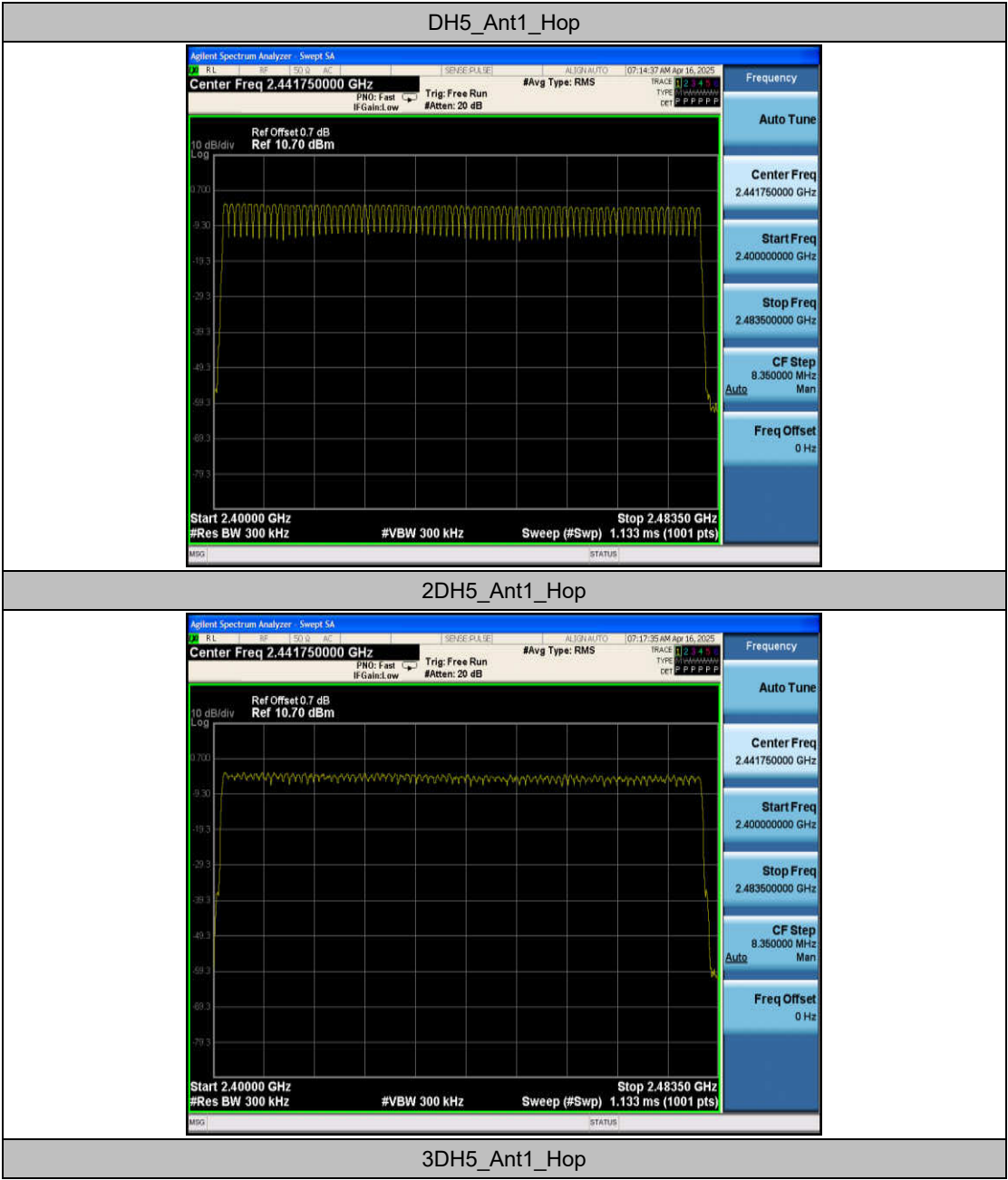


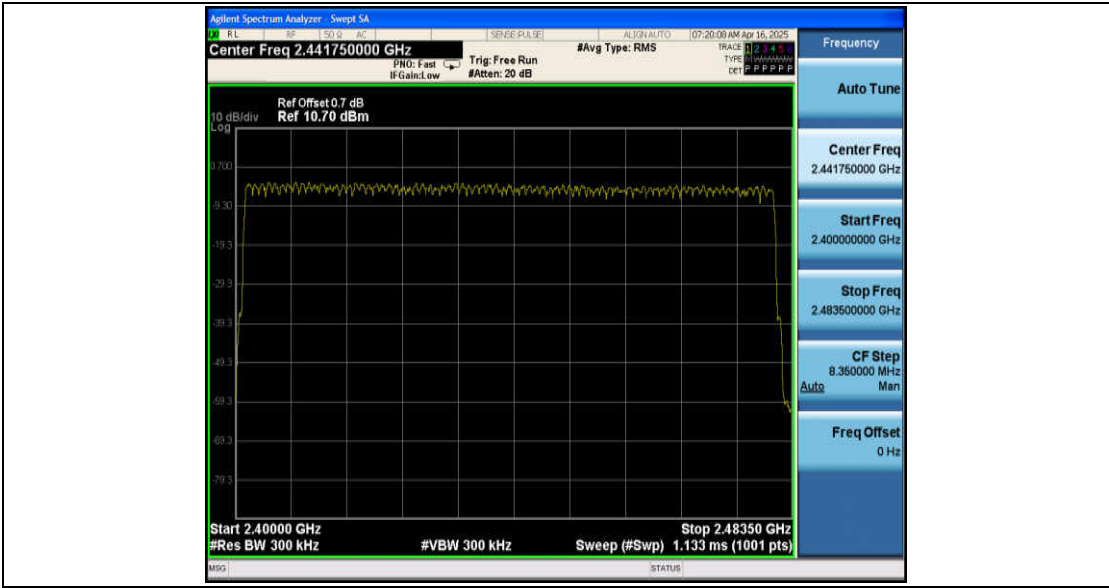
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs





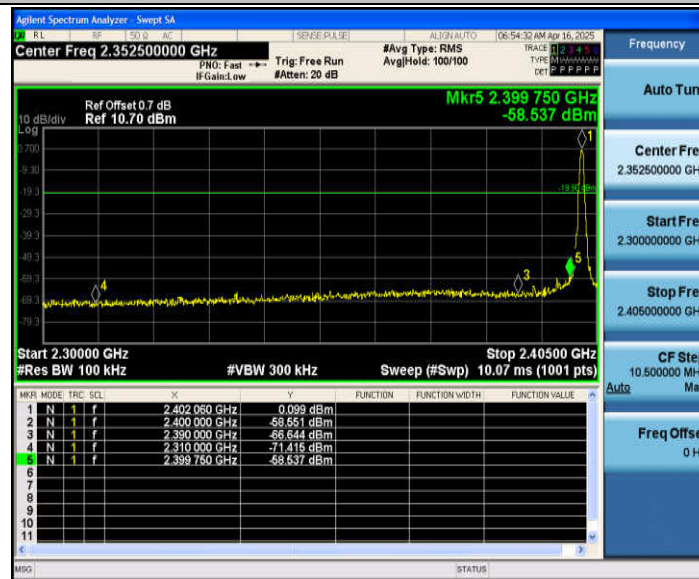
Appendix G: Band edge measurements

Test Result

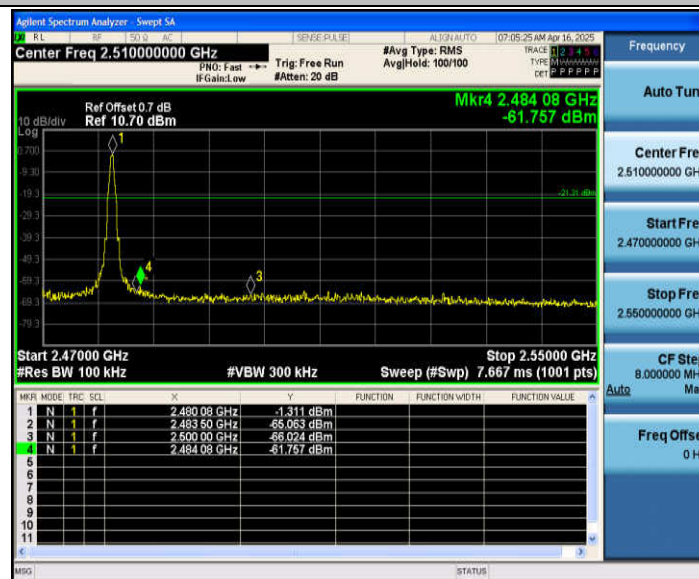
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.10	-58.54	≤-19.9	PASS
		High	2480	-1.31	-61.76	≤-21.31	PASS
		Low	Hop_2402	-3.73	-62.67	≤-23.73	PASS
		High	Hop_2480	-4.96	-63.79	≤-24.96	PASS
2DH5	Ant1	Low	2402	-4.04	-56.04	≤-24.04	PASS
		High	2480	-4.66	-64.25	≤-24.66	PASS
		Low	Hop_2402	-4.31	-61.12	≤-24.31	PASS
		High	Hop_2480	-4.69	-64.66	≤-24.69	PASS
3DH5	Ant1	Low	2402	-4.38	-56.19	≤-24.38	PASS
		High	2480	-4.09	-61.73	≤-24.09	PASS
		Low	Hop_2402	-5.61	-61.49	≤-25.61	PASS
		High	Hop_2480	-4.05	-56.58	≤-24.05	PASS

Test Graphs

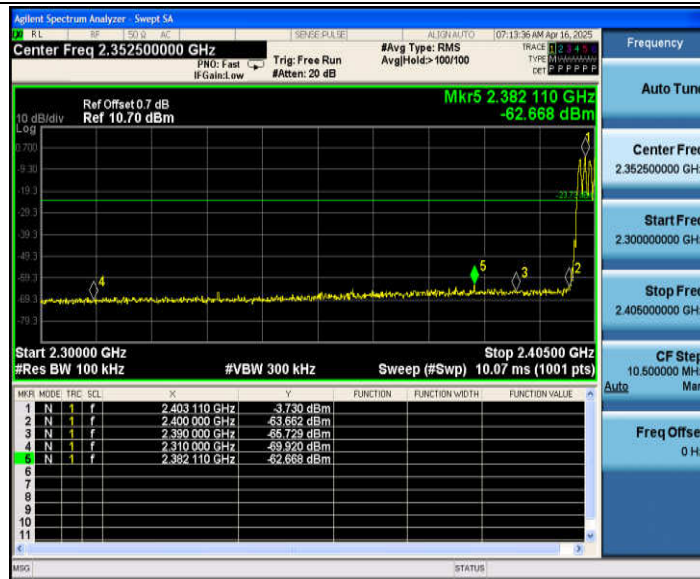
DH5_Ant1_Low_2402



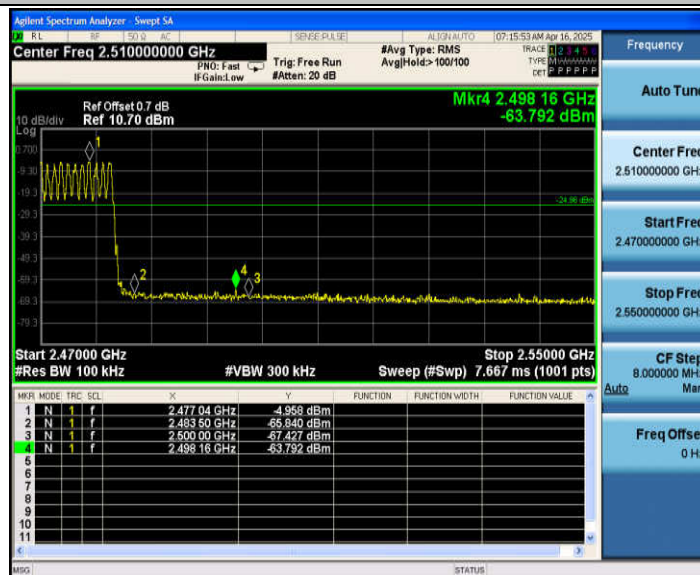
DH5_Ant1_High_2480



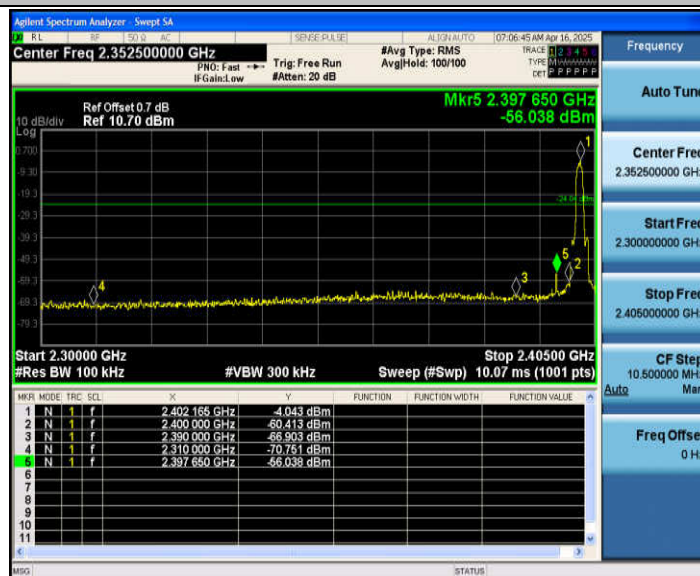
DH5_Ant1_Low_Hop_2402



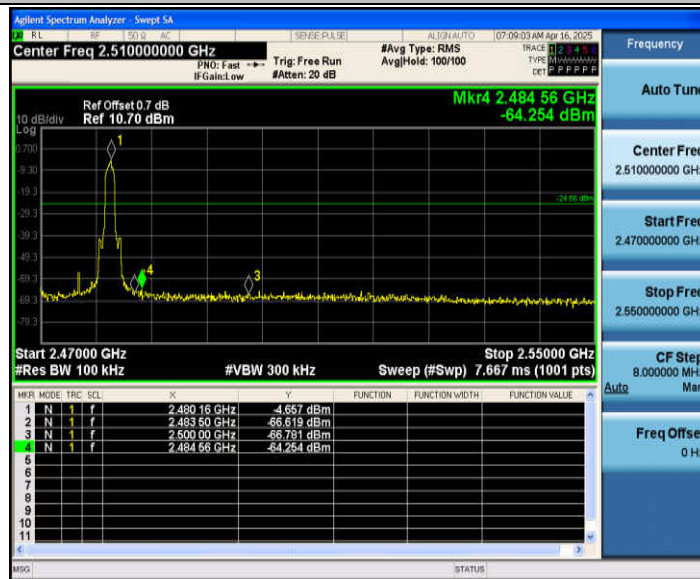
DH5_Ant1_High_Hop_2480



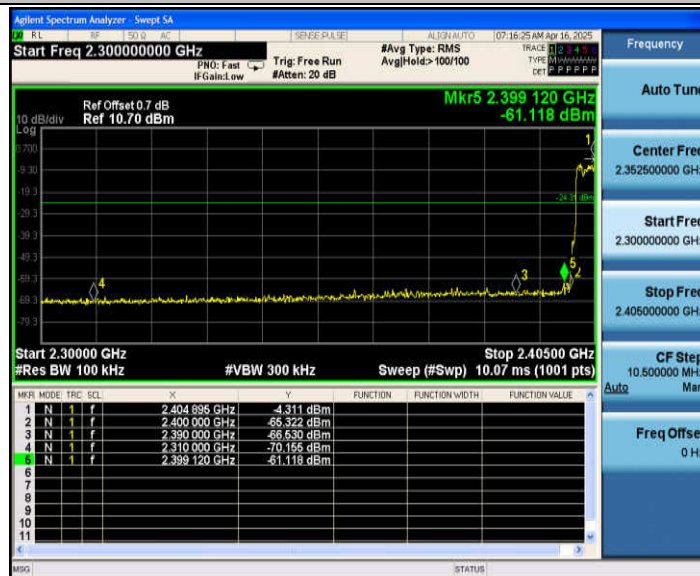
2DH5_Ant1_Low_2402



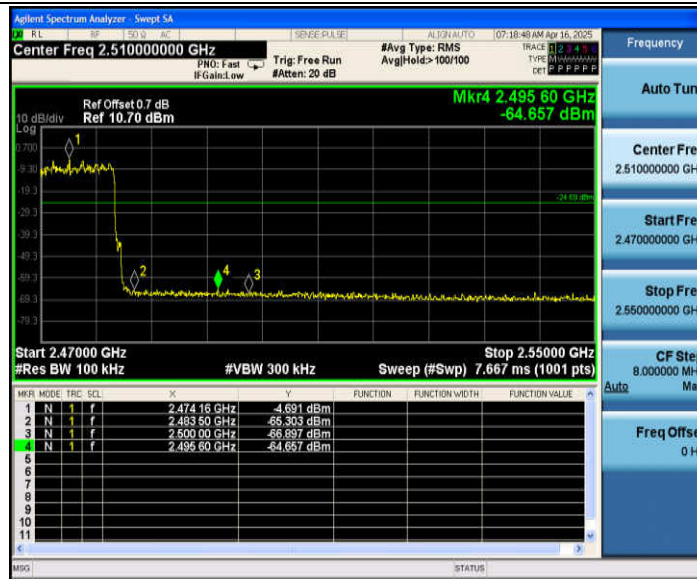
2DH5_Ant1_High_2480



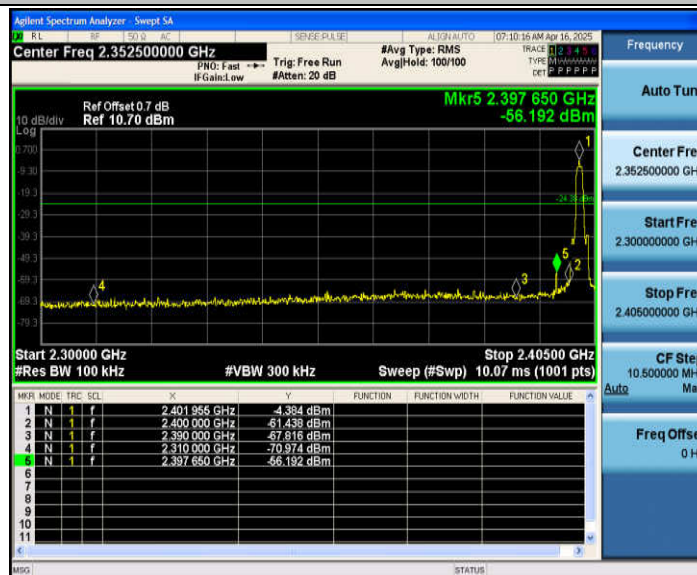
2DH5_Ant1_Low_Hop_2402



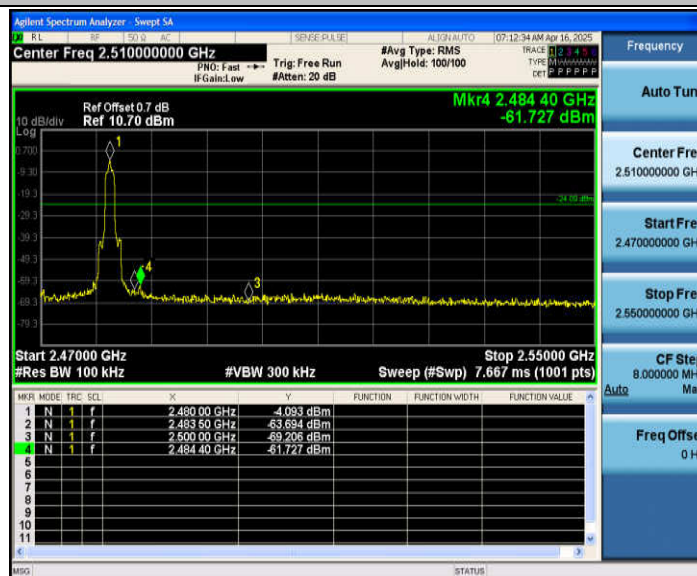
2DH5_Ant1_High_Hop_2480



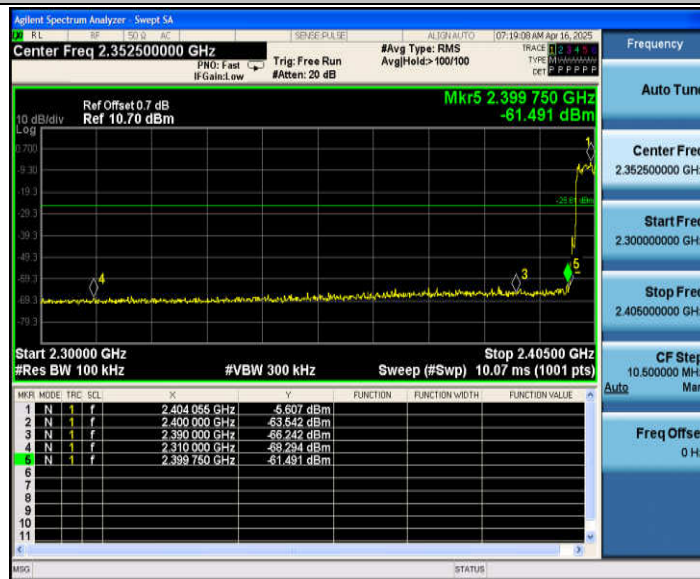
3DH5_Ant1_Low_2402



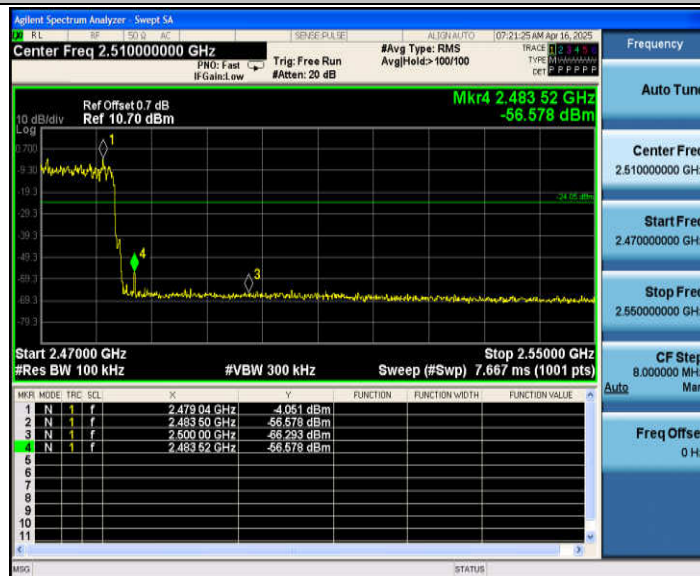
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

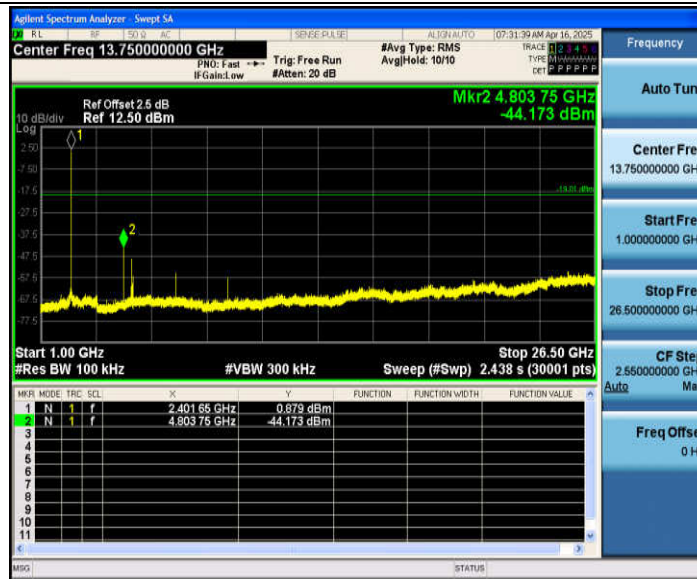
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-53.75	≤-19.01	PASS
			1000~26500	0.99	-44.17	≤-19.01	PASS
		2441	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-68.49	≤-19.68	PASS
			1000~26500	0.32	-44.7	≤-19.68	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-67.99	≤-19.72	PASS
			1000~26500	0.28	-44.05	≤-19.72	PASS
2DH5	Ant1	2402	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-67.79	≤-24.66	PASS
			1000~26500	-4.66	-51.19	≤-24.66	PASS
		2441	Reference	-4.94	-4.94	---	PASS
			30~1000	-4.94	-67.38	≤-24.94	PASS
			1000~26500	-4.94	-46.23	≤-24.94	PASS
		2480	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-67.31	≤-22.42	PASS
			1000~26500	-2.42	-48.51	≤-22.42	PASS
3DH5	Ant1	2402	Reference	-3.66	-3.66	---	PASS
			30~1000	-3.66	-66.34	≤-23.66	PASS
			1000~26500	-3.66	-46.41	≤-23.66	PASS
		2441	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-67.22	≤-22.13	PASS
			1000~26500	-2.13	-50.35	≤-22.13	PASS
		2480	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-68.26	≤-22.38	PASS
			1000~26500	-2.38	-45.99	≤-22.38	PASS

Test Graphs

DH5_Ant1_2402_0~Reference

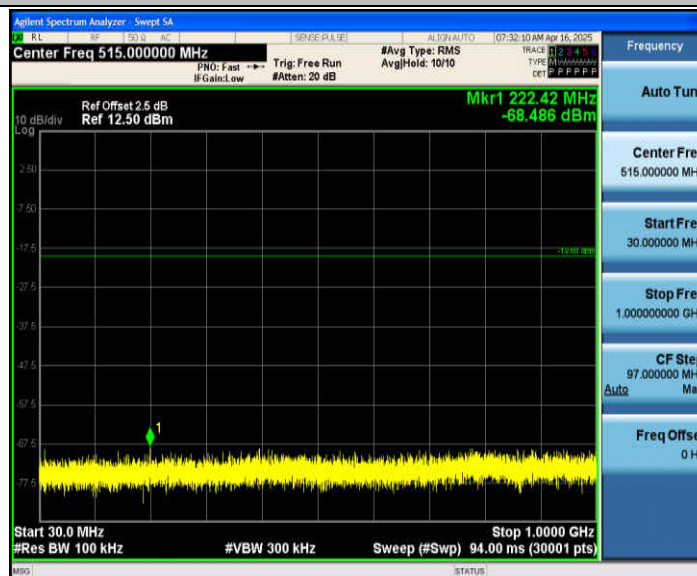




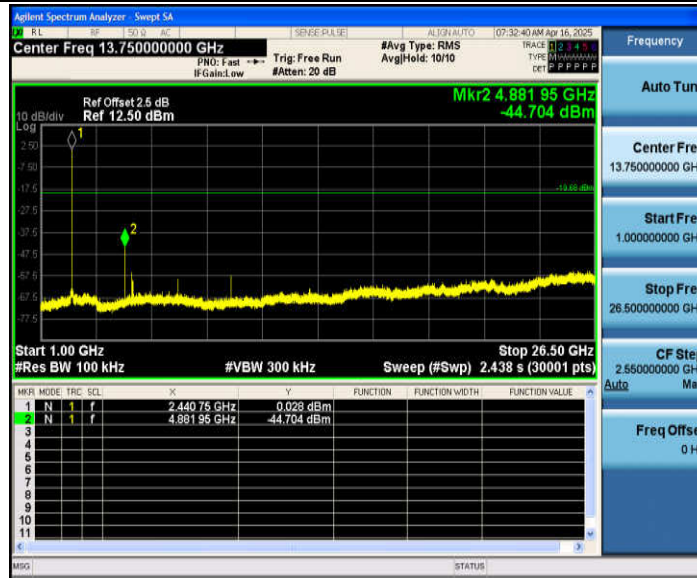
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



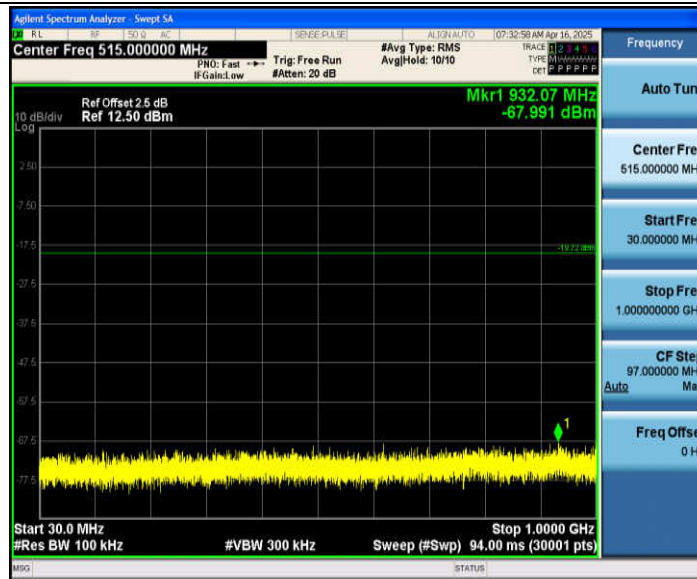
DH5_Ant1_2441_1000~26500



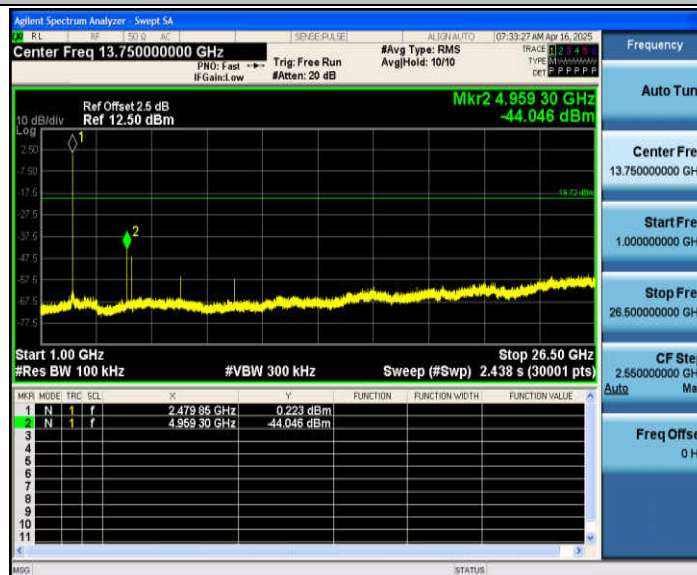
DH5_Ant1_2480_0~Reference



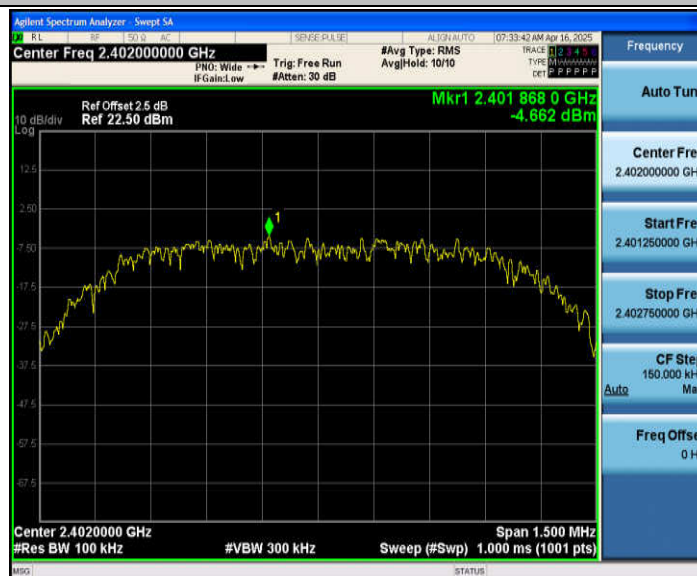
DH5_Ant1_2480_30~1000



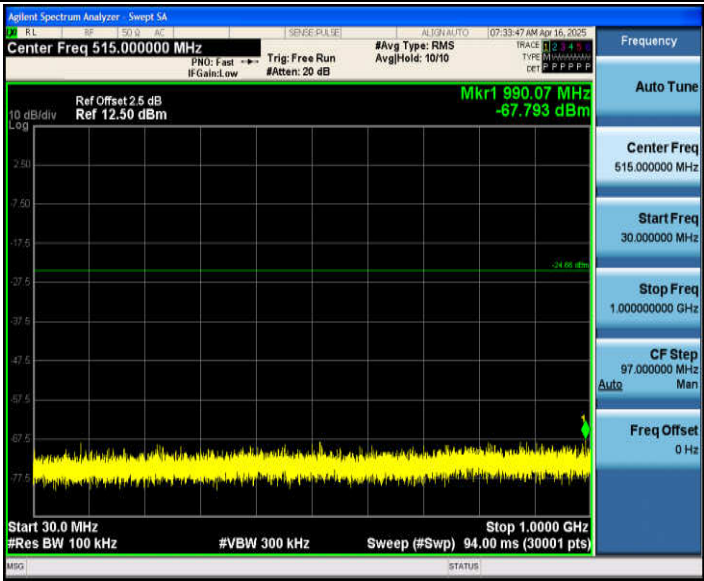
DH5_Ant1_2480_1000~26500



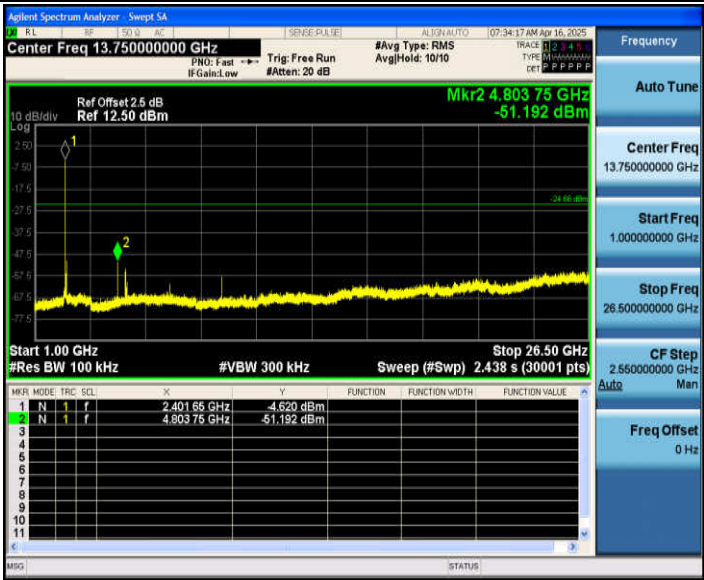
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



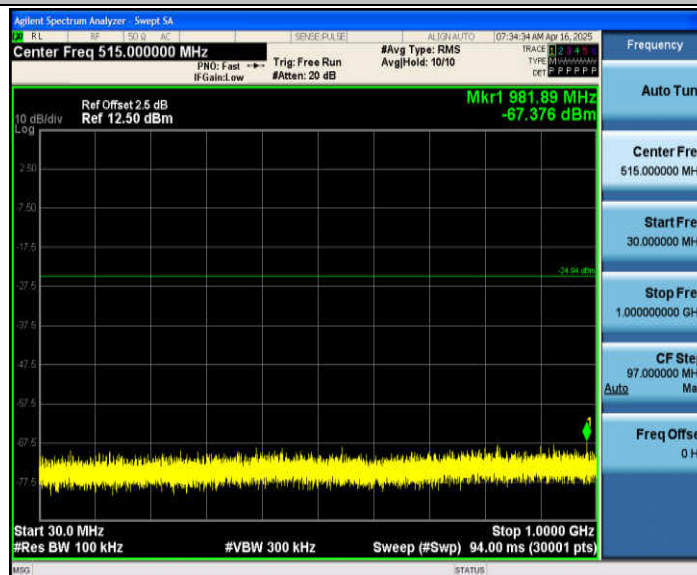
2DH5_Ant1_2402_1000~26500



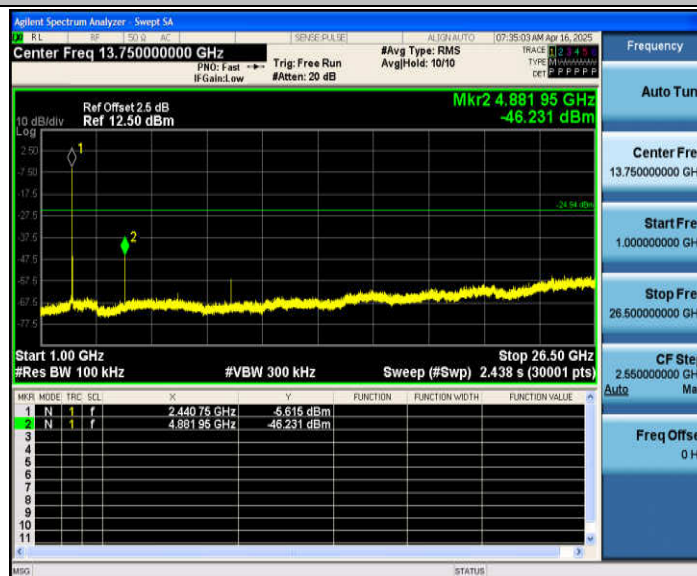
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



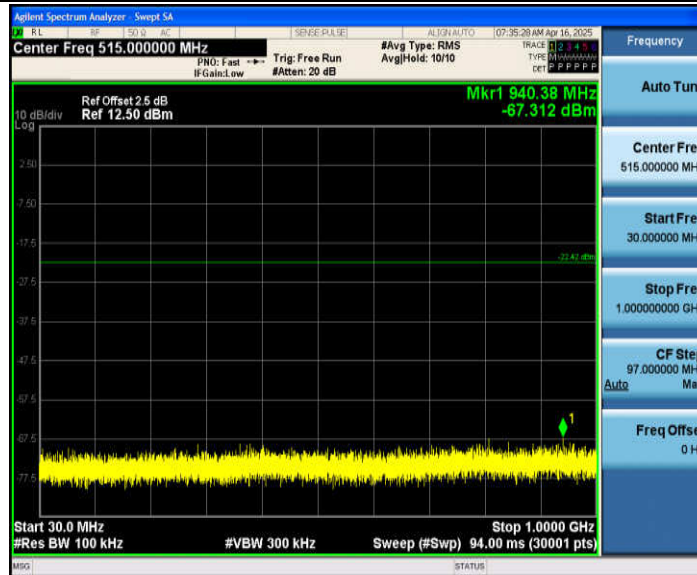
2DH5_Ant1_2441_1000~26500



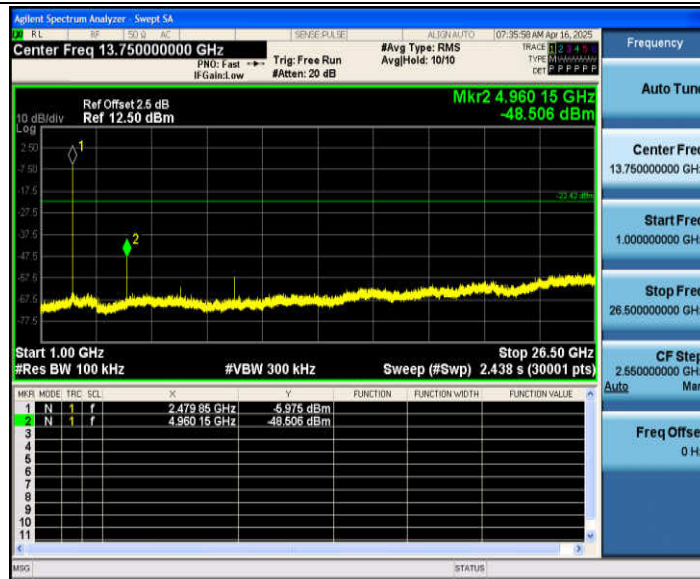
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



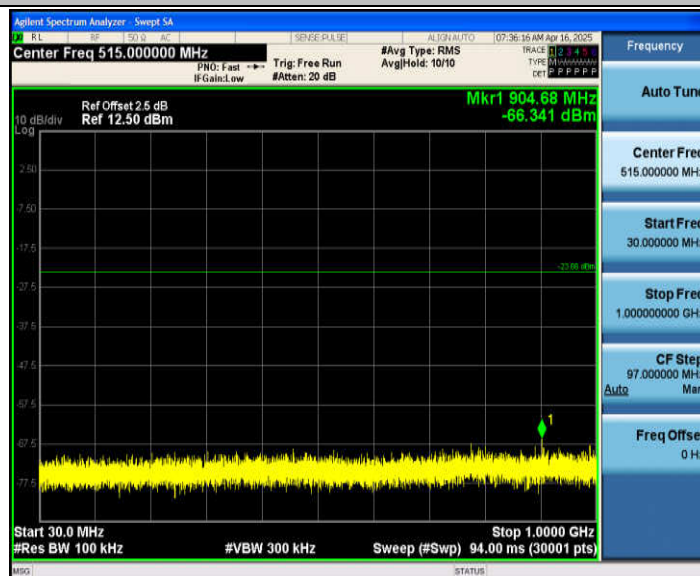
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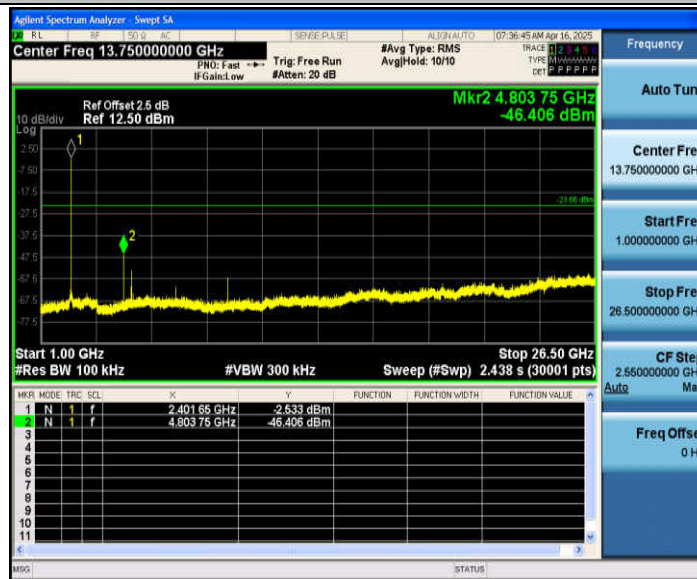
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



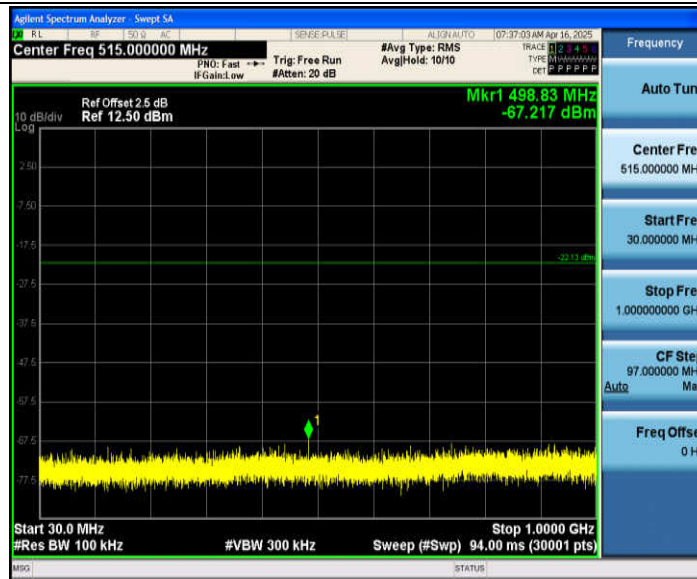
3DH5_Ant1_2402_1000~26500



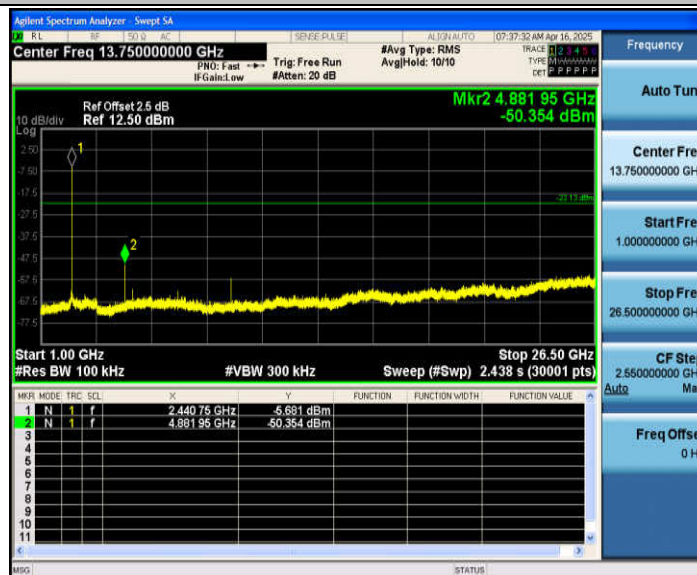
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



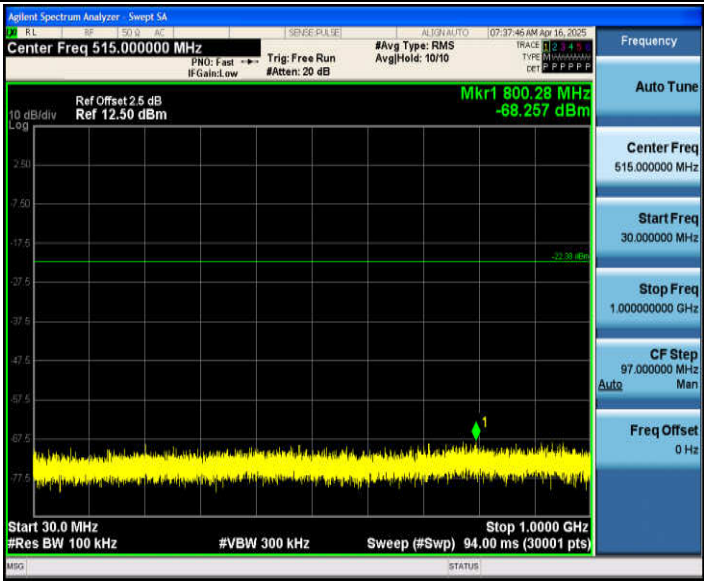
3DH5_Ant1_2441_1000~26500



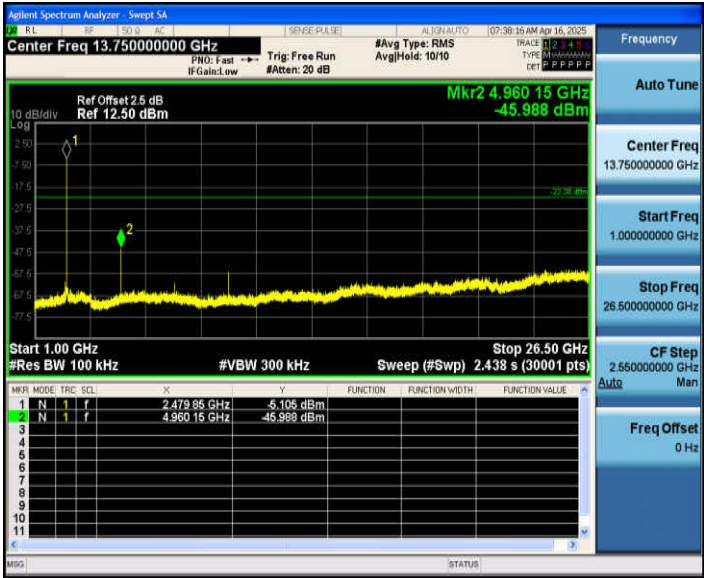
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

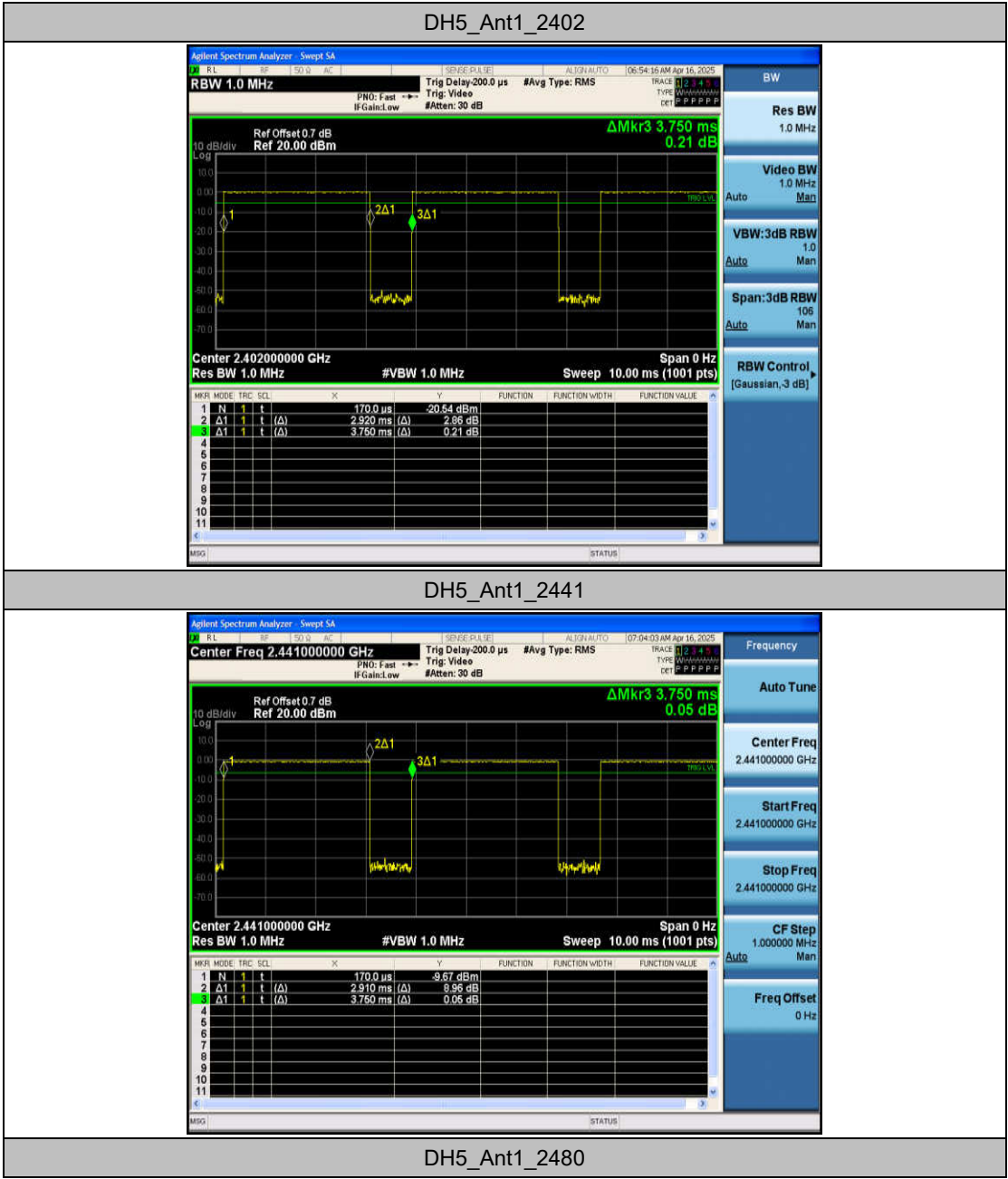


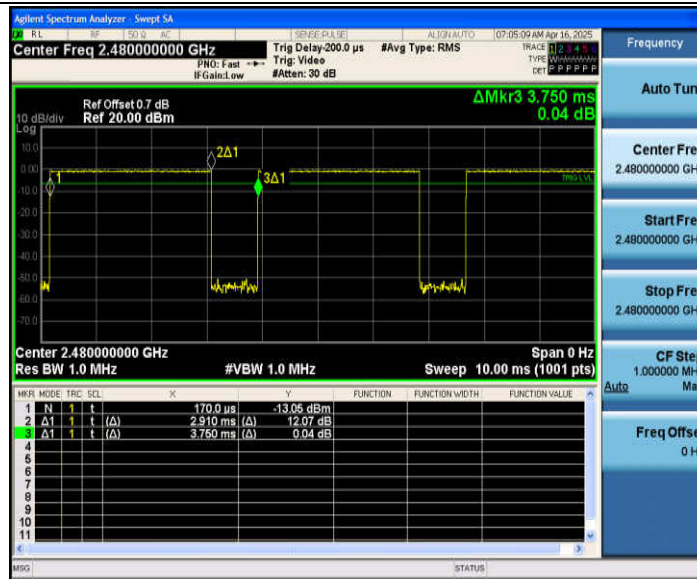
Appendix I: Duty Cycle

Test Result

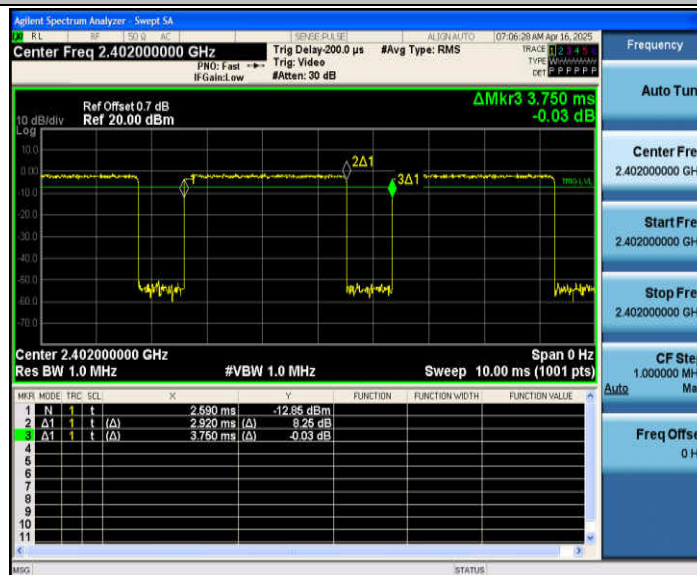
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
3DH5	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

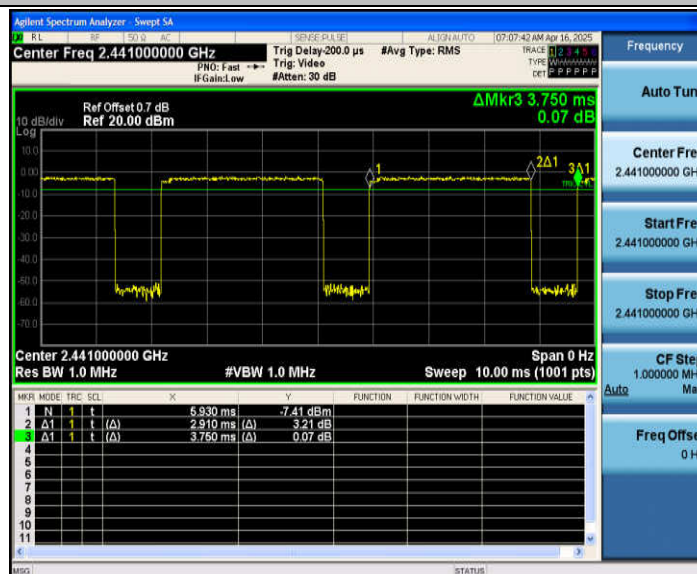




2DH5_Ant1_2402



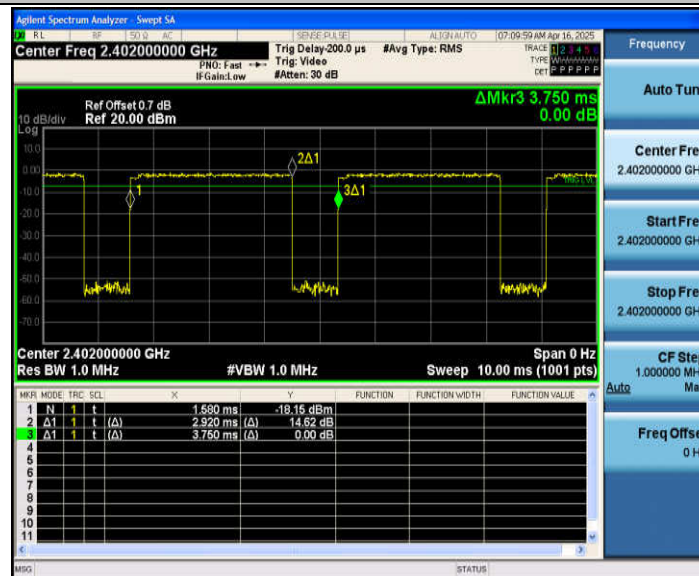
2DH5_Ant1_2441



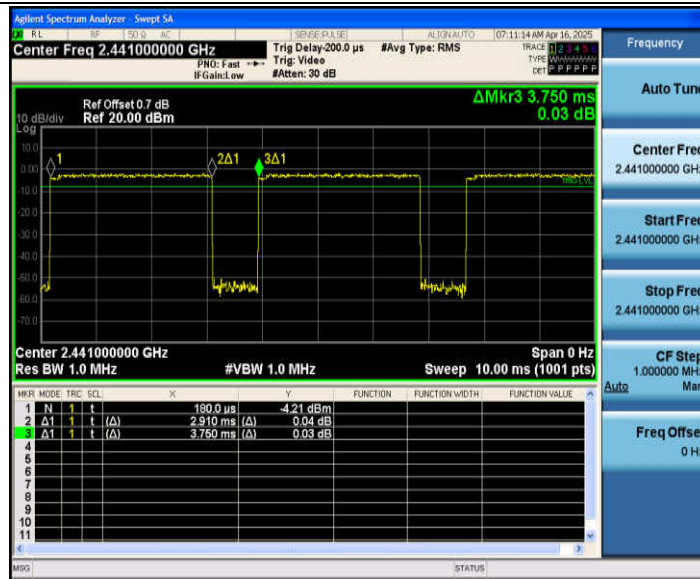
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

