

FCC Appendix RF Test Data

FCC ID : 2AR4E-VORMOR-M5

Company: : Shenzhen Beibo Intelligent Technology Co., Ltd.

EUT : Language Translator Device

Model Number : VORMOR-M5

Report No. : CTA25040700301

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	0.942	2401.553	2402.495	---	---
		2441	0.939	2440.550	2441.489	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.281	2401.379	2402.660	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.275	2479.385	2480.660	---	---
3DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.281	2479.382	2480.663	---	---

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	0.87309	2401.5749	2402.4480	---	---
		2441	0.86356	2440.5756	2441.4391	---	---
		2480	0.87423	2479.5716	2480.4459	---	---
2DH5	Ant1	2402	1.1921	2401.4143	2402.6064	---	---
		2441	1.1903	2440.4142	2441.6045	---	---
		2480	1.1890	2479.4179	2480.6069	---	---
3DH5	Ant1	2402	1.1851	2401.4177	2402.6028	---	---
		2441	1.1939	2440.4144	2441.6083	---	---
		2480	1.1863	2479.4160	2480.6023	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



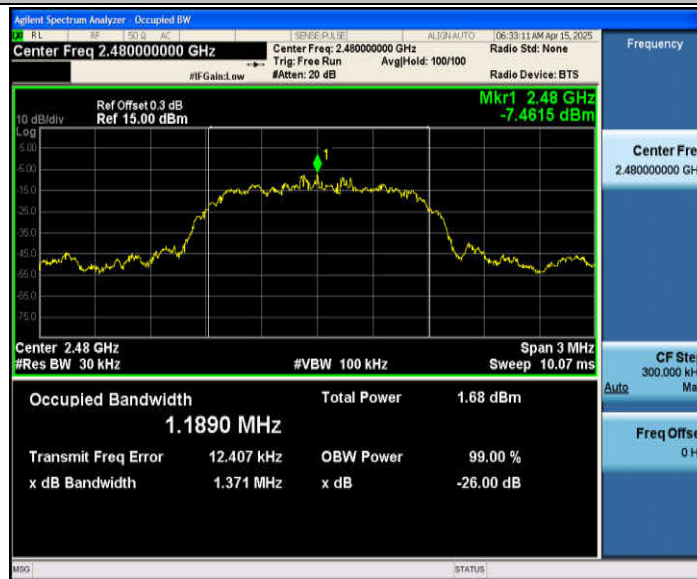
2DH5_Ant1_2402



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	-0.04	≤20.97	PASS
		2441	-0.60	≤20.97	PASS
		2480	-0.89	≤20.97	PASS
2DH5	Ant1	2402	-0.89	≤20.97	PASS
		2441	-1.38	≤20.97	PASS
		2480	-1.68	≤20.97	PASS
3DH5	Ant1	2402	-0.86	≤20.97	PASS
		2441	-1.38	≤20.97	PASS
		2480	-1.66	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.682	PASS
2DH5	Ant1	Hop	1.08	≥ 0.882	PASS
3DH5	Ant1	Hop	1.168	≥ 0.880	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

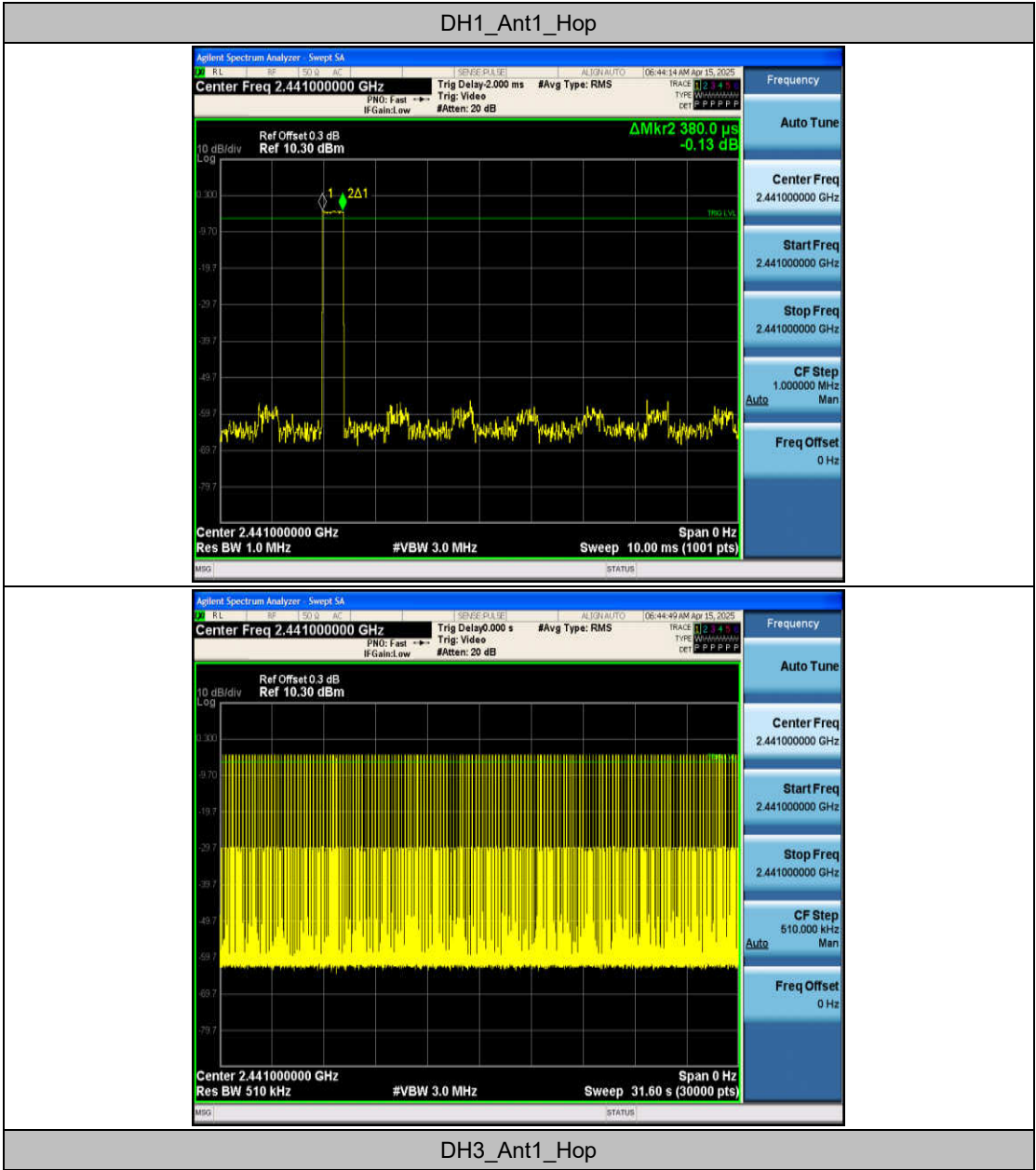


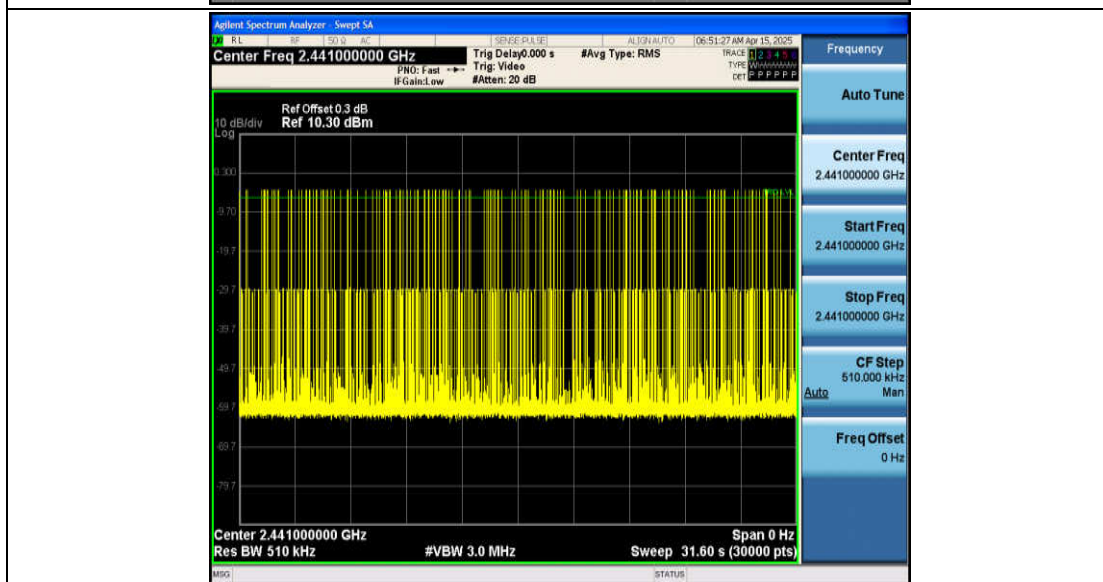
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	315	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.390	313	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.640	166	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.900	117	0.339	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	151	0.248	≤0.4	PASS
3DH5	Ant1	Hop	2.900	101	0.293	≤0.4	PASS

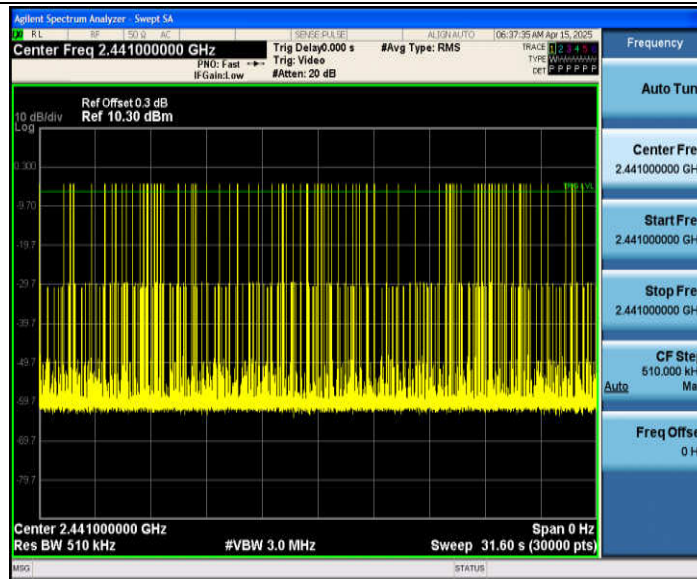
Test Graphs



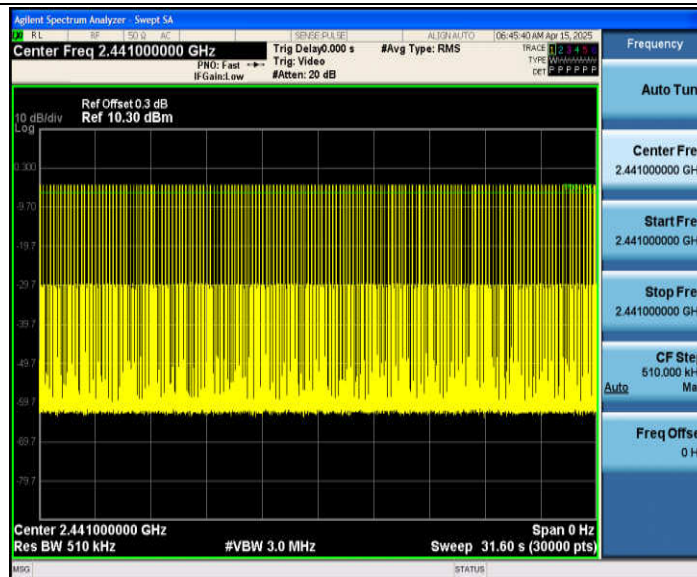
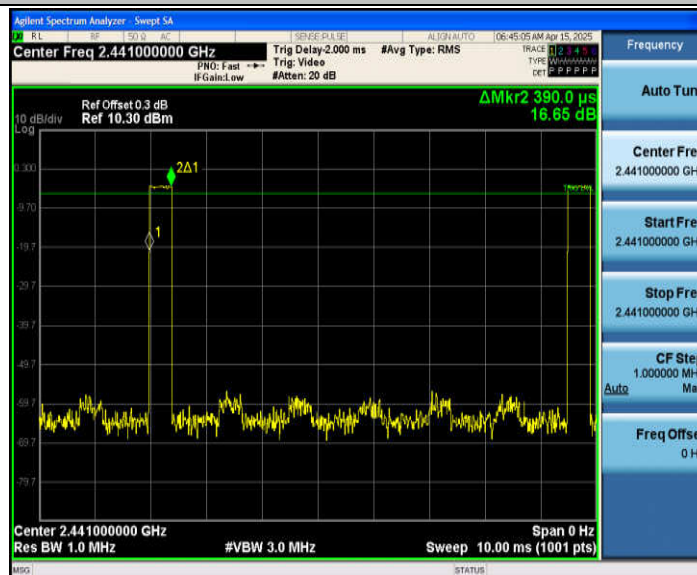


DH5_Ant1_Hop

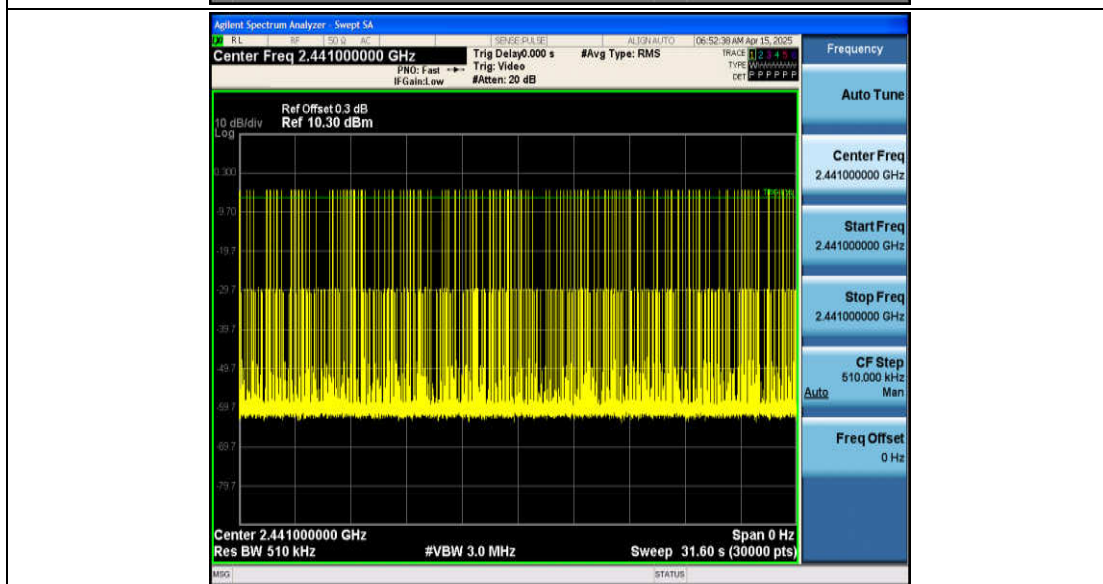




2DH1_Ant1_Hop

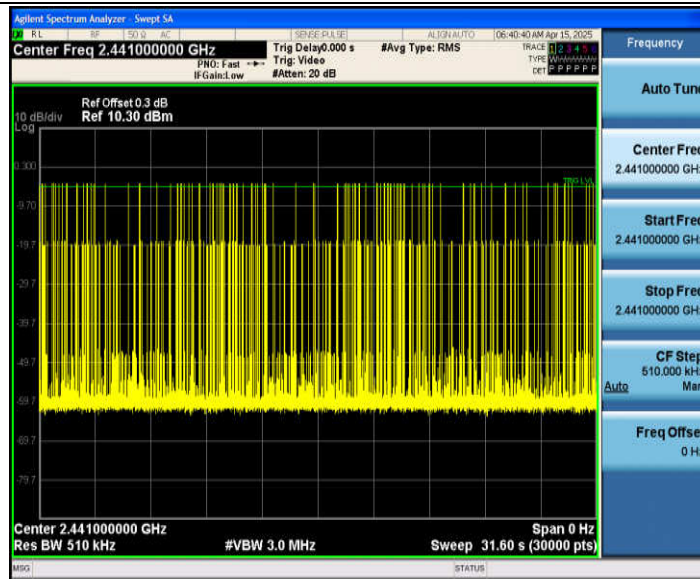


2DH3_Ant1_Hop

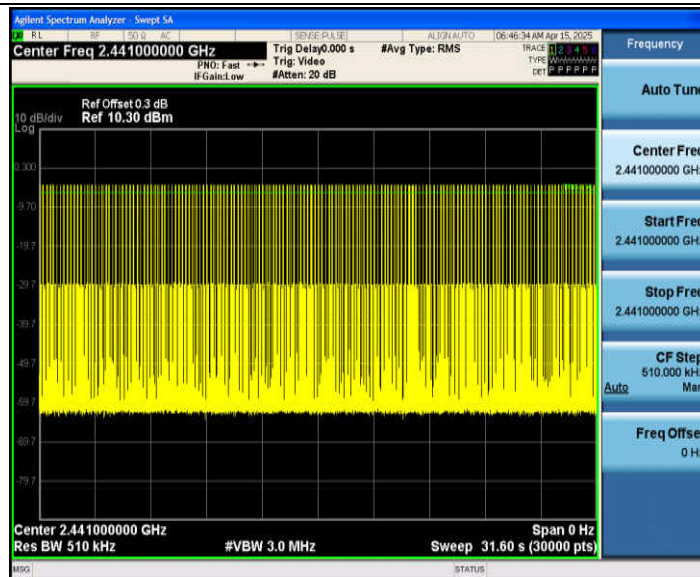


2DH5_Ant1_Hop

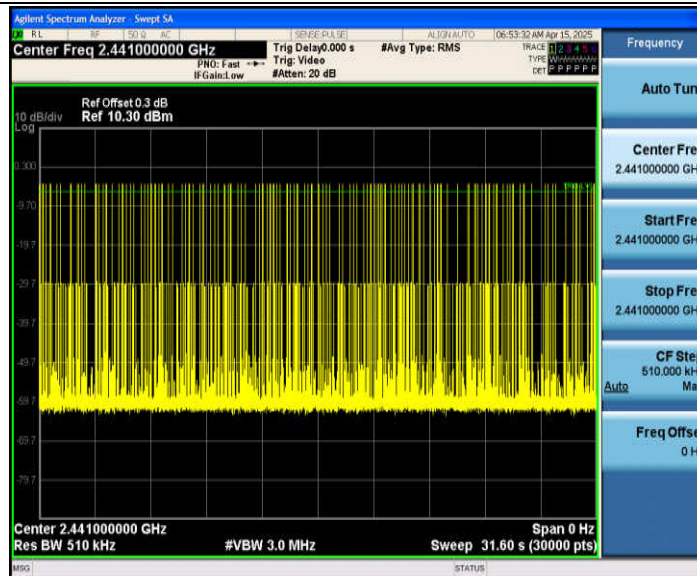




3DH1_Ant1_Hop

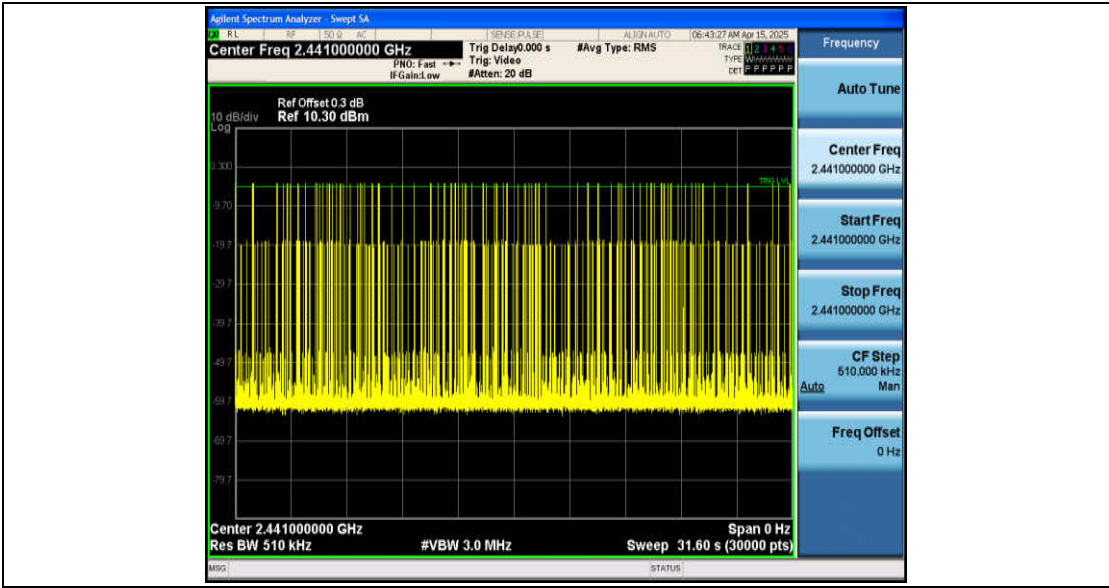


3DH3_Ant1_Hop



3DH5_Ant1_Hop





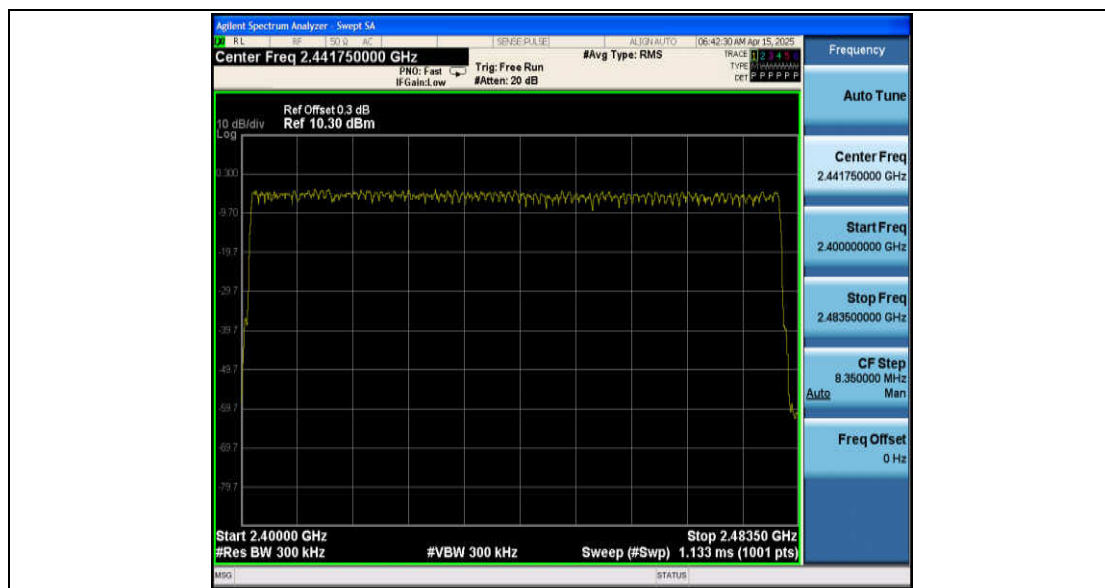
Appendix F: Number of hopping channels

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





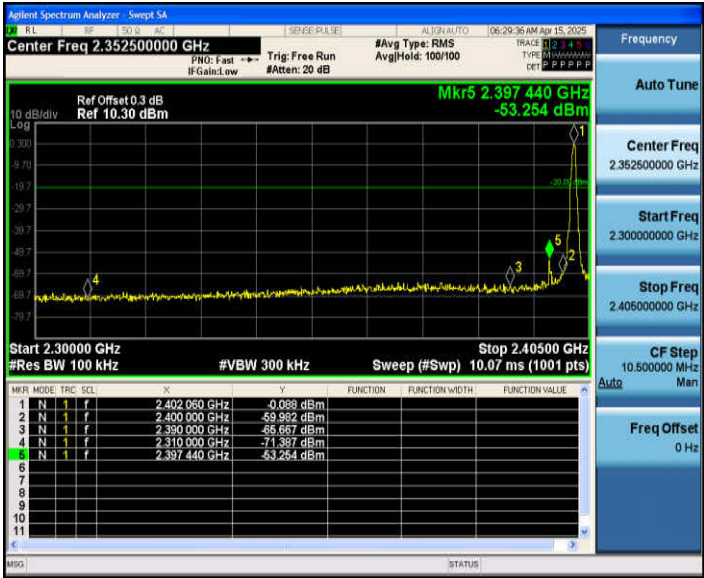
Appendix G: Band edge measurements

Test Result

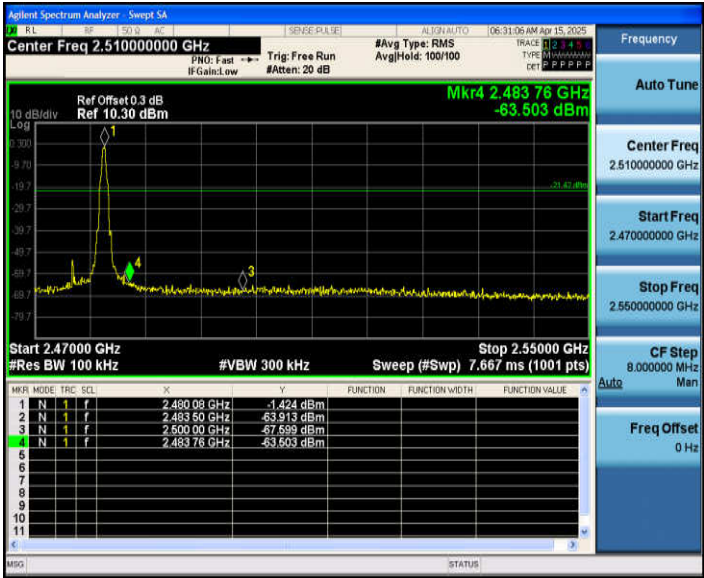
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.09	-53.25	≤-20.09	PASS
		High	2480	-1.42	-63.5	≤-21.42	PASS
		Low	Hop_2402	-4.26	-63.59	≤-24.26	PASS
		High	Hop_2480	-4.87	-64.79	≤-24.87	PASS
2DH5	Ant1	Low	2402	-3.76	-56.18	≤-23.76	PASS
		High	2480	-5.90	-63.95	≤-25.9	PASS
		Low	Hop_2402	-4.60	-63.51	≤-24.6	PASS
		High	Hop_2480	-5.04	-65.26	≤-25.04	PASS
3DH5	Ant1	Low	2402	-3.86	-55.52	≤-23.86	PASS
		High	2480	-5.49	-64.14	≤-25.49	PASS
		Low	Hop_2402	-4.44	-63.36	≤-24.44	PASS
		High	Hop_2480	-5.82	-62.54	≤-25.82	PASS

Test Graphs

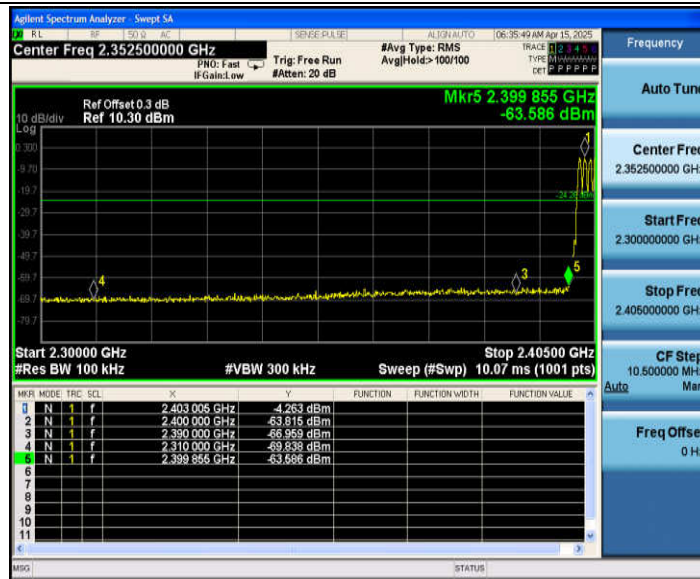
DH5_Ant1_Low_2402



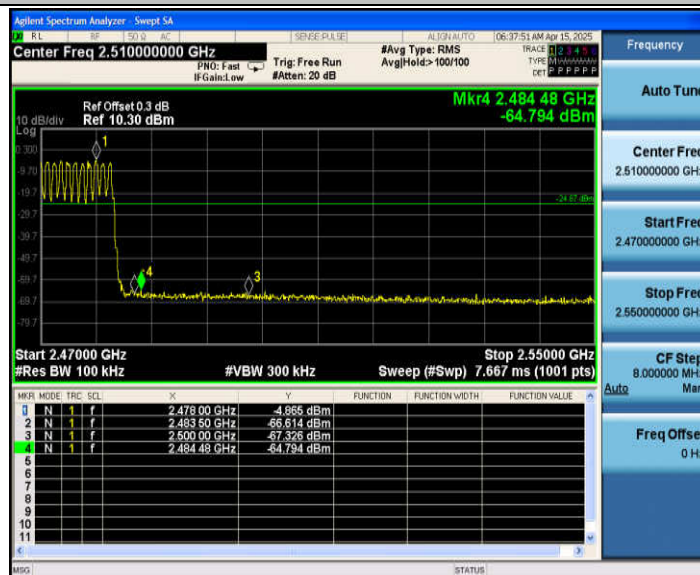
DH5_Ant1_High_2480



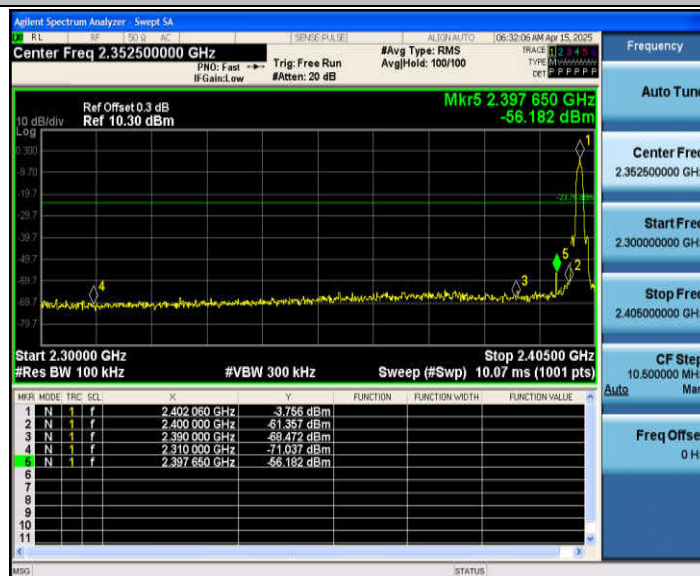
DH5_Ant1_Low_Hop_2402



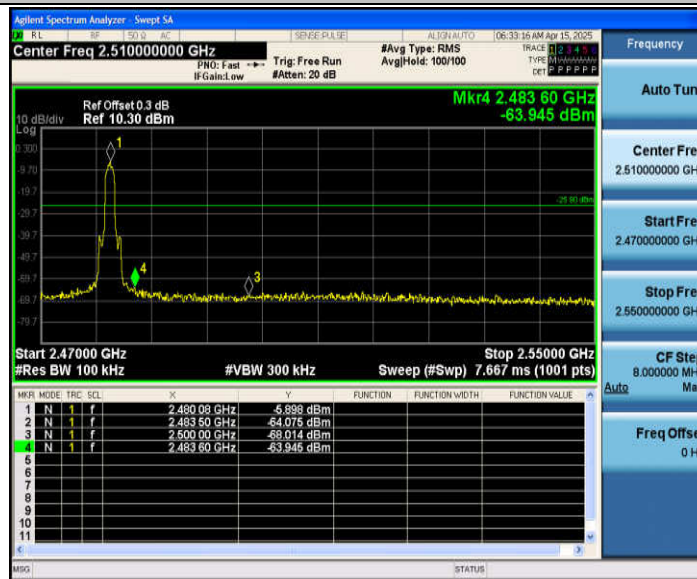
DH5_Ant1_High_Hop_2480



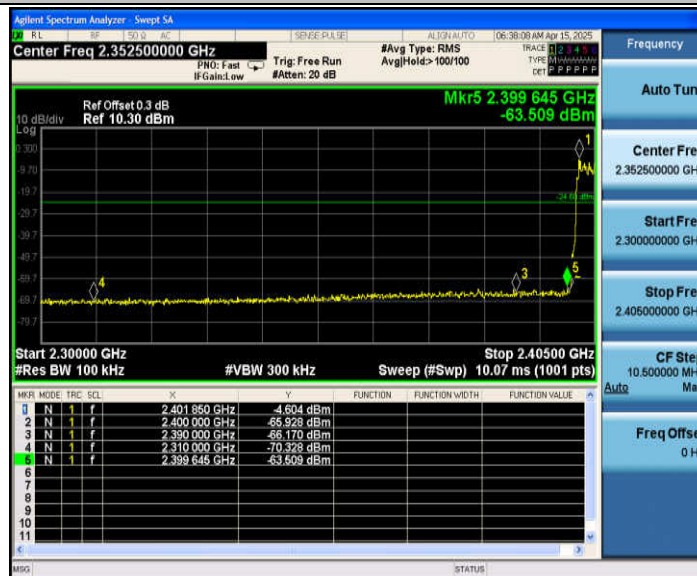
2DH5_Ant1_Low_2402



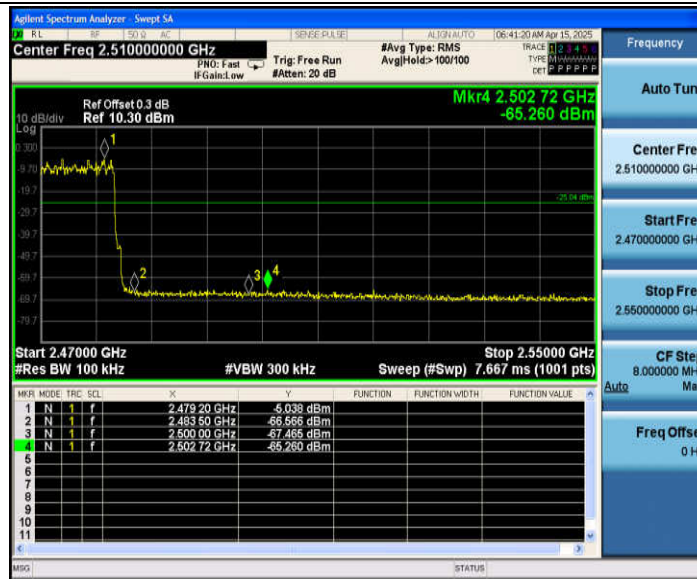
2DH5_Ant1_High_2480



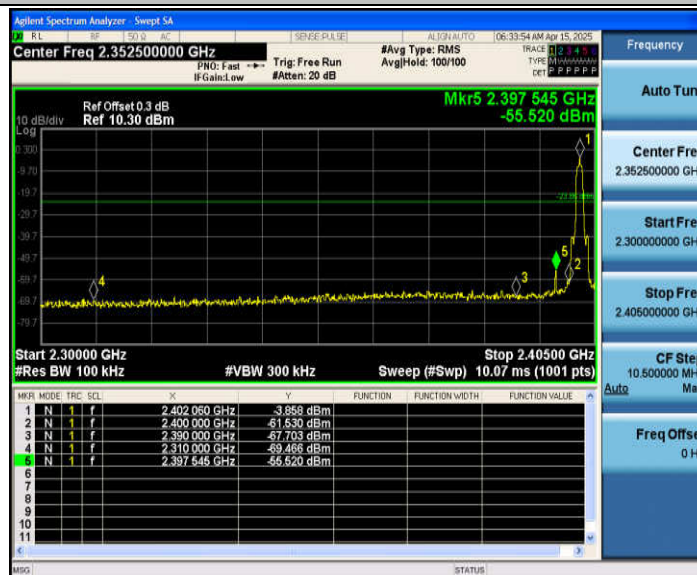
2DH5_Ant1_Low_Hop_2402



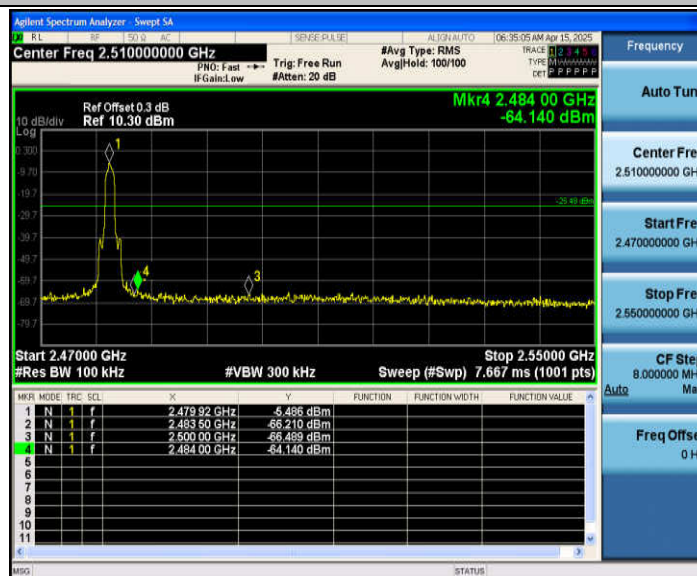
2DH5_Ant1_High_Hop_2480



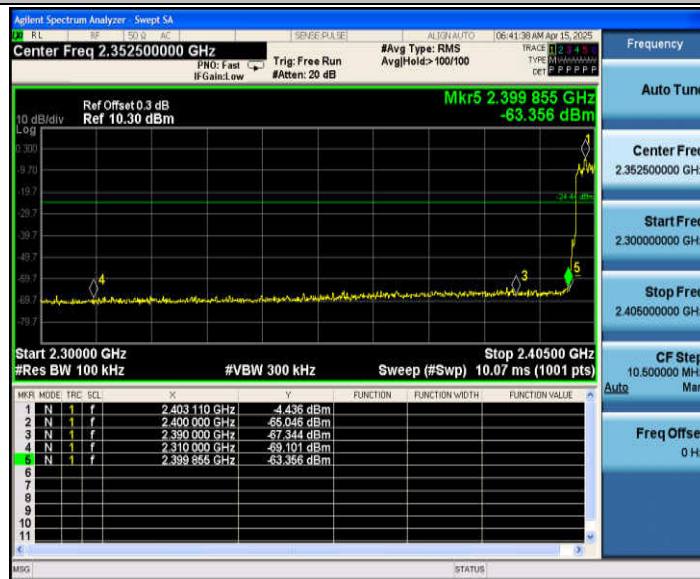
3DH5_Ant1_Low_2402



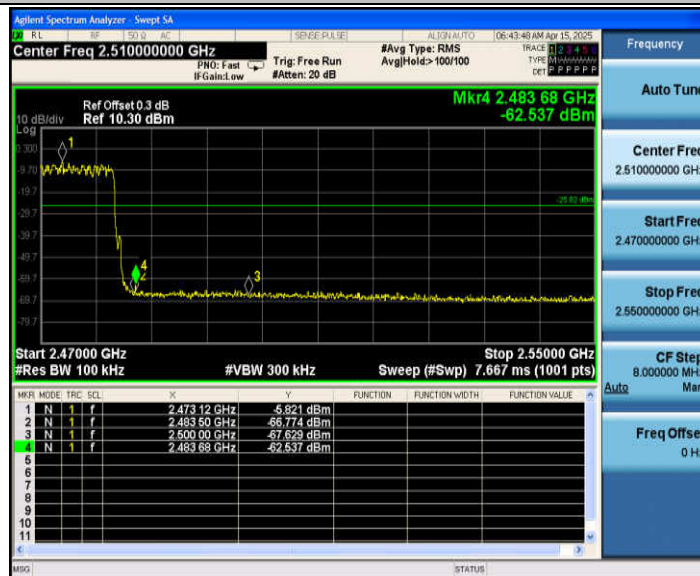
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

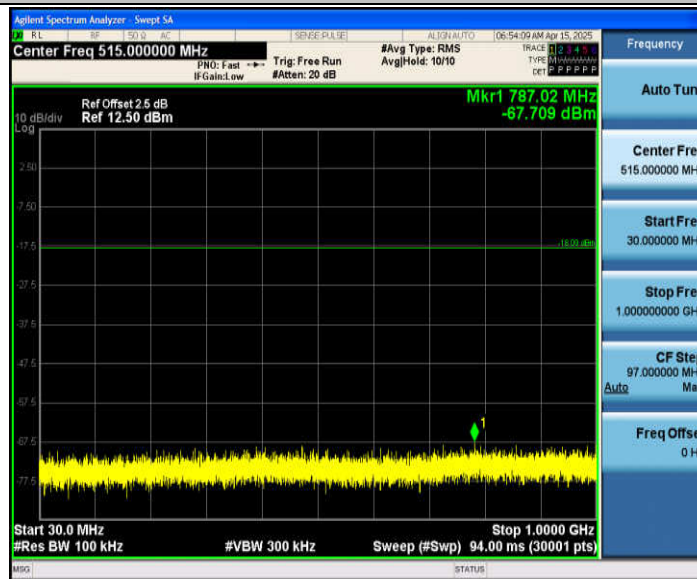
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-67.71	≤-18.09	PASS
			1000~26500	1.91	-43.16	≤-18.09	PASS
		2441	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-67	≤-19.37	PASS
			1000~26500	0.63	-44.35	≤-19.37	PASS
		2480	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-67.28	≤-19.25	PASS
			1000~26500	0.75	-43.98	≤-19.25	PASS
2DH5	Ant1	2402	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-67.5	≤-19.26	PASS
			1000~26500	0.74	-45.21	≤-19.26	PASS
		2441	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-67.63	≤-20.39	PASS
			1000~26500	-0.39	-46.01	≤-20.39	PASS
		2480	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-67.77	≤-20.04	PASS
			1000~26500	-0.04	-45.58	≤-20.04	PASS
3DH5	Ant1	2402	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-67.83	≤-19.85	PASS
			1000~26500	0.15	-43.61	≤-19.85	PASS
		2441	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-48.73	≤-20.33	PASS
			1000~26500	-0.33	-46.08	≤-20.33	PASS
		2480	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-64.53	≤-20.91	PASS
			1000~26500	-0.91	-45.51	≤-20.91	PASS

Test Graphs

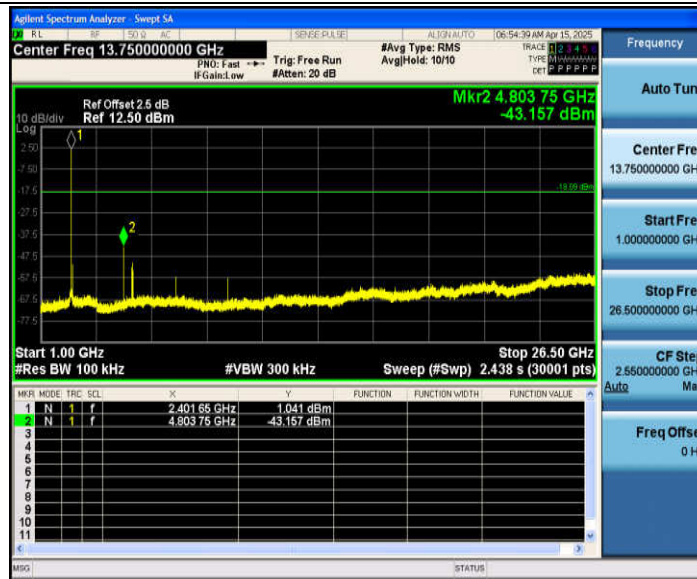
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



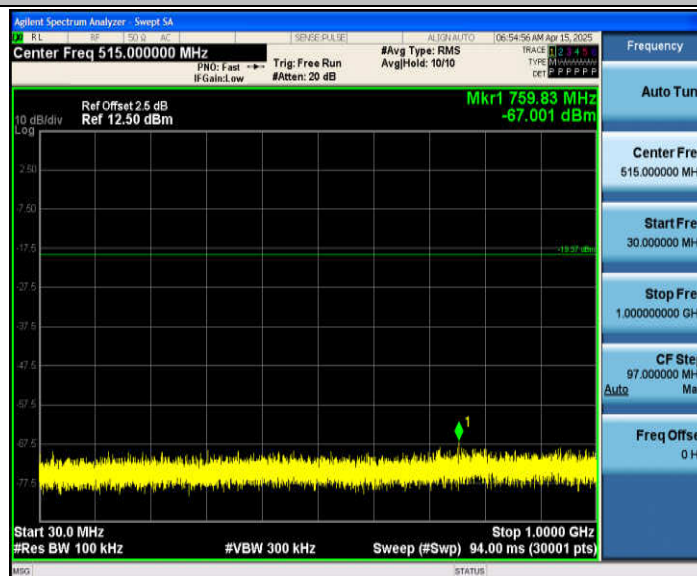
DH5_Ant1_2402_1000~26500



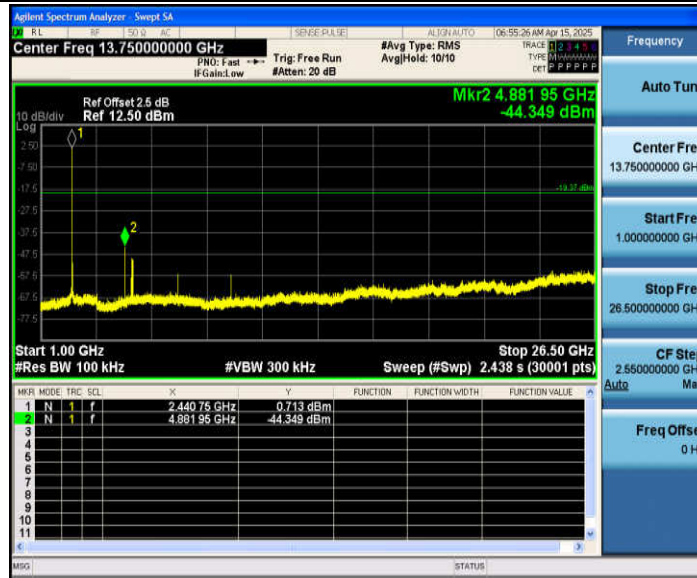
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



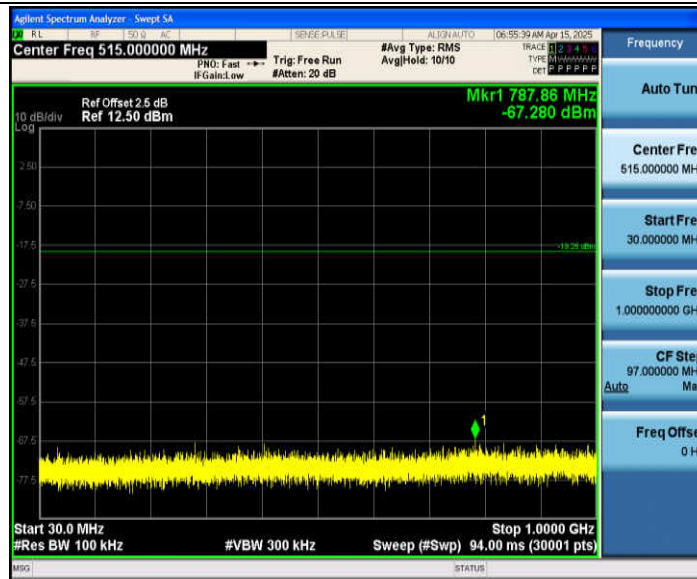
DH5_Ant1_2441_1000~26500



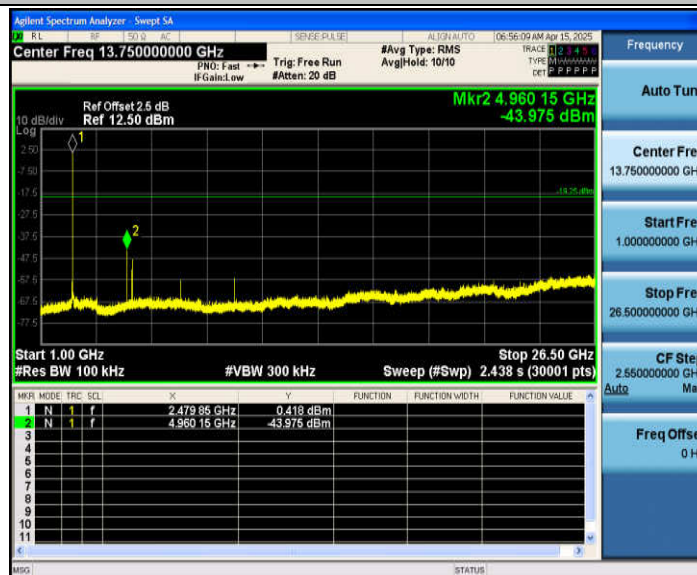
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



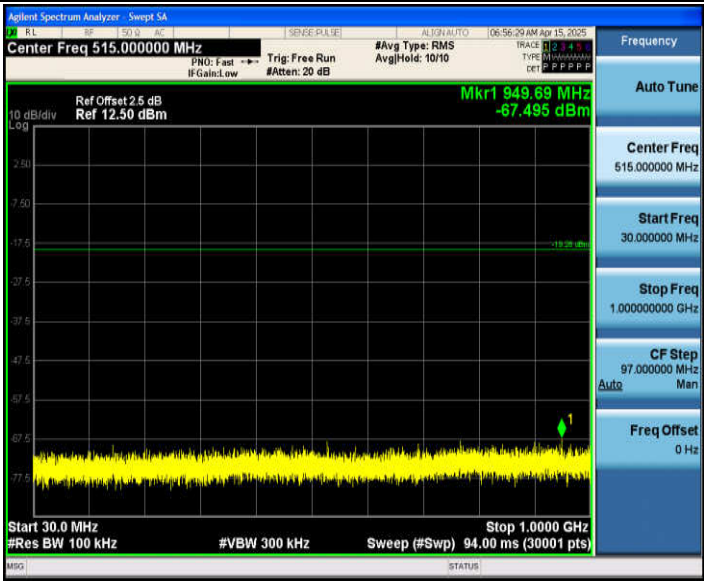
DH5_Ant1_2480_1000~26500



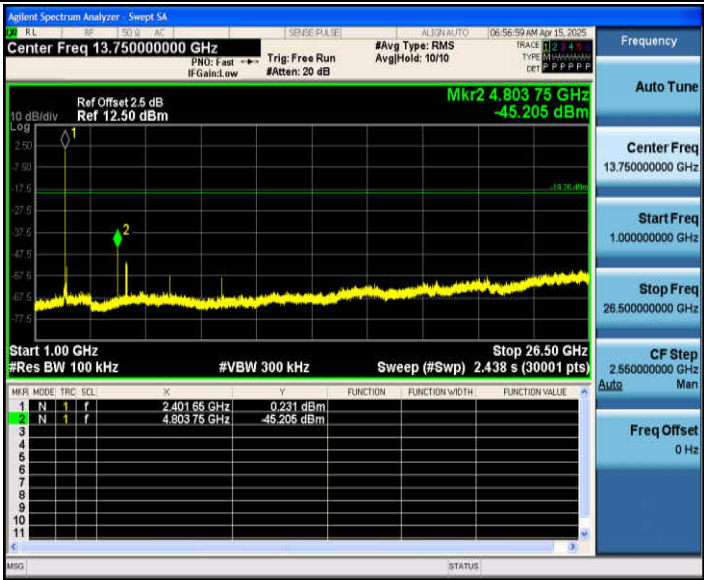
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



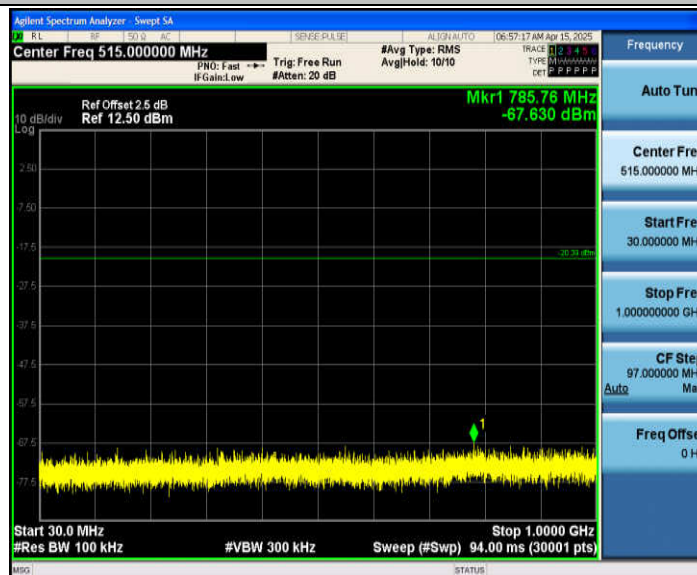
2DH5_Ant1_2402_1000~26500



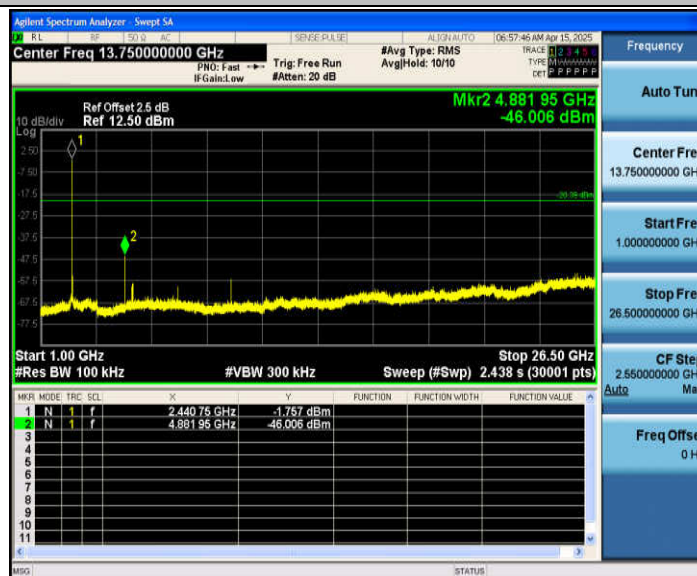
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



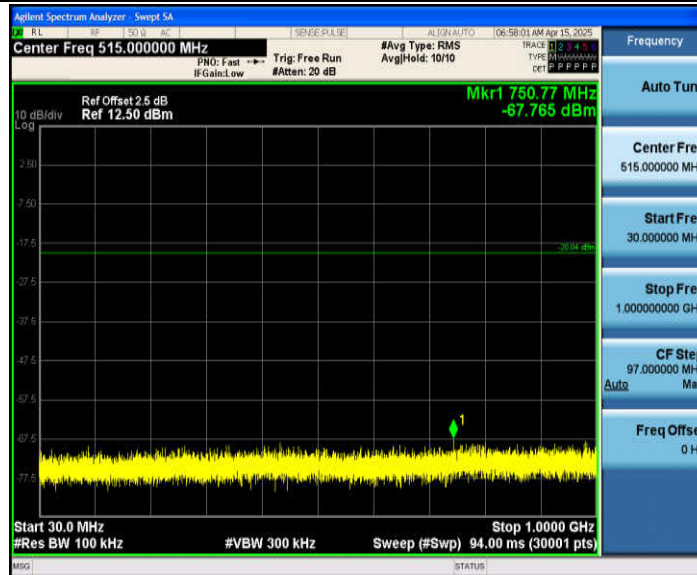
2DH5_Ant1_2441_1000~26500



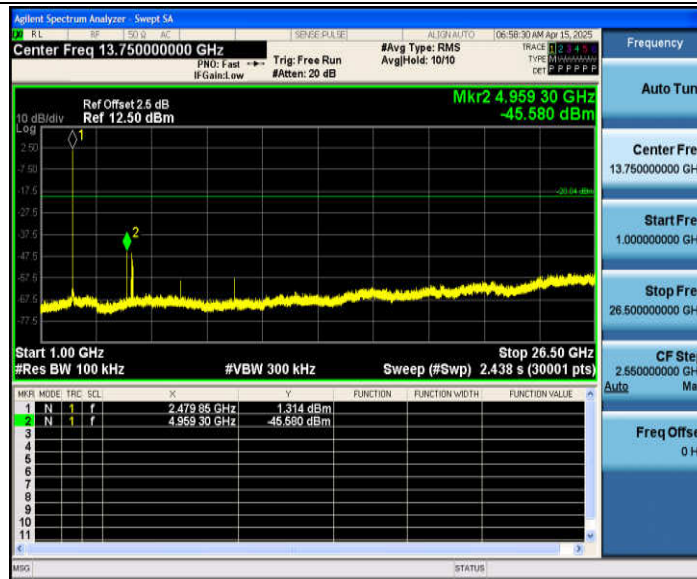
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



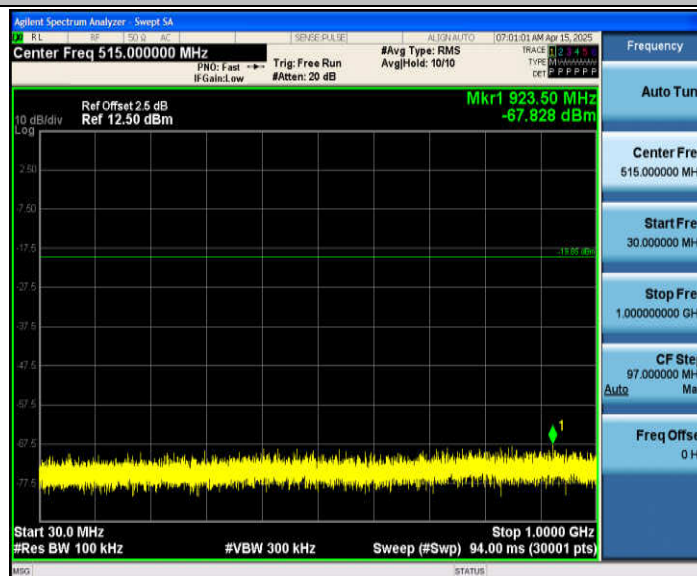
2DH5_Ant1_2480_1000~26500



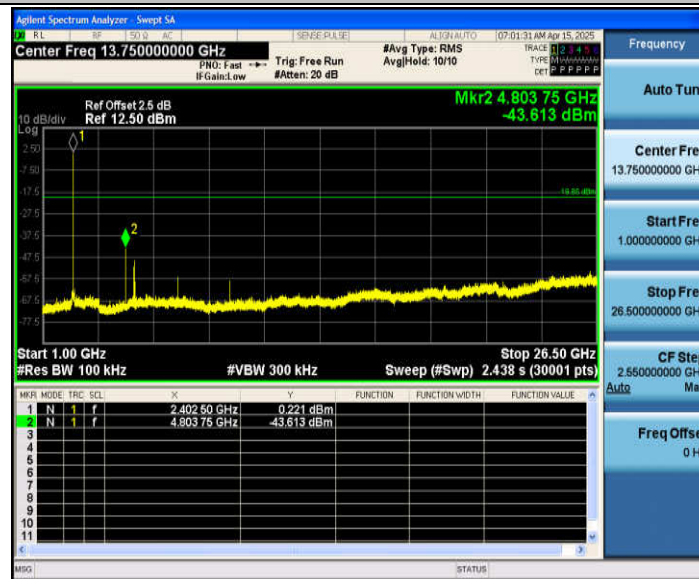
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



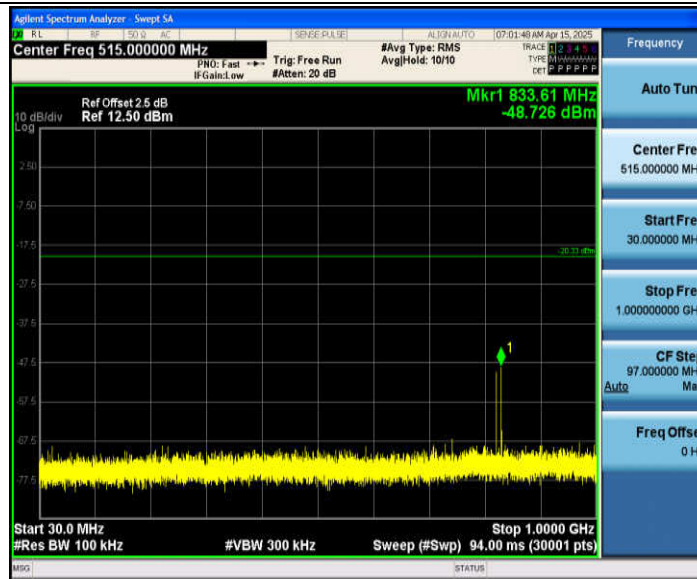
3DH5_Ant1_2402_1000~26500



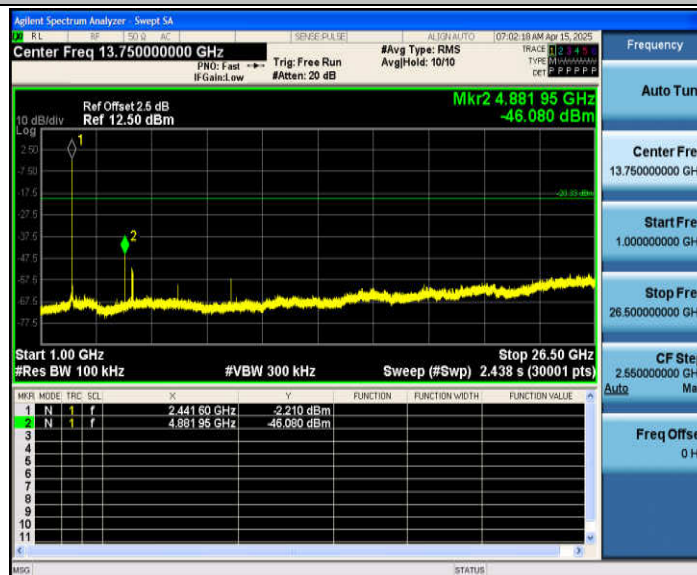
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



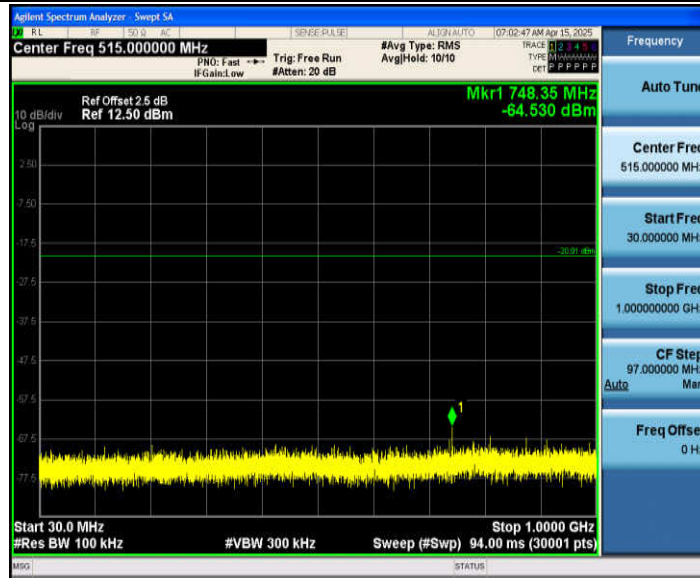
3DH5_Ant1_2441_1000~26500



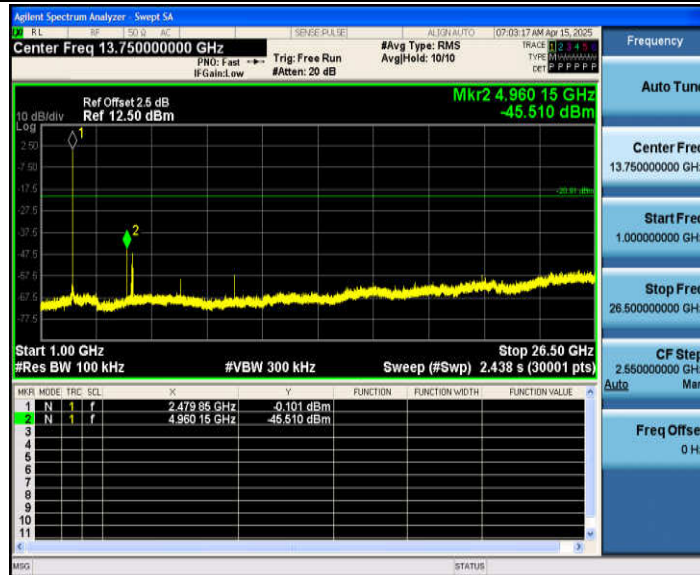
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

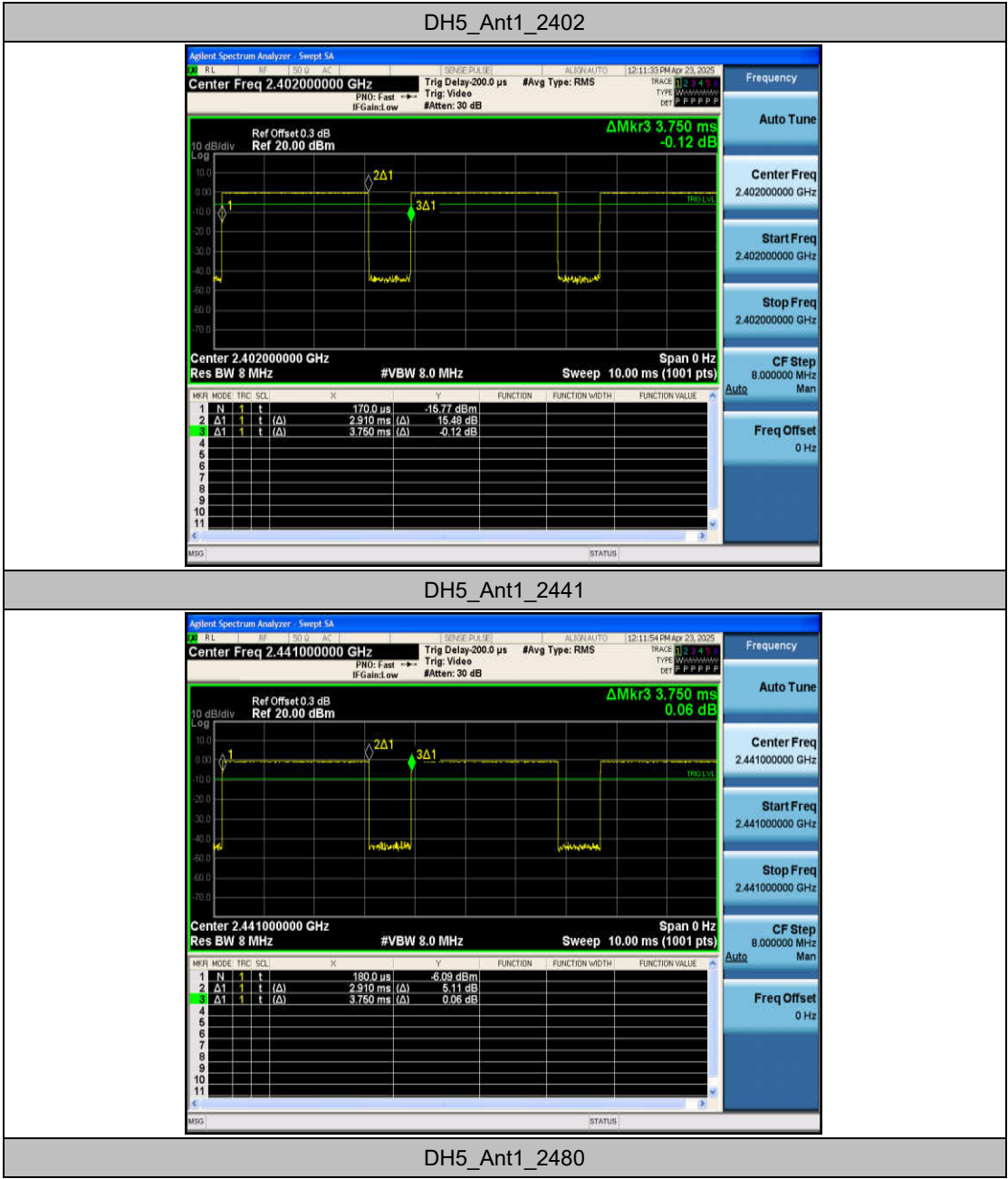


Appendix I: Duty Cycle

Test Result

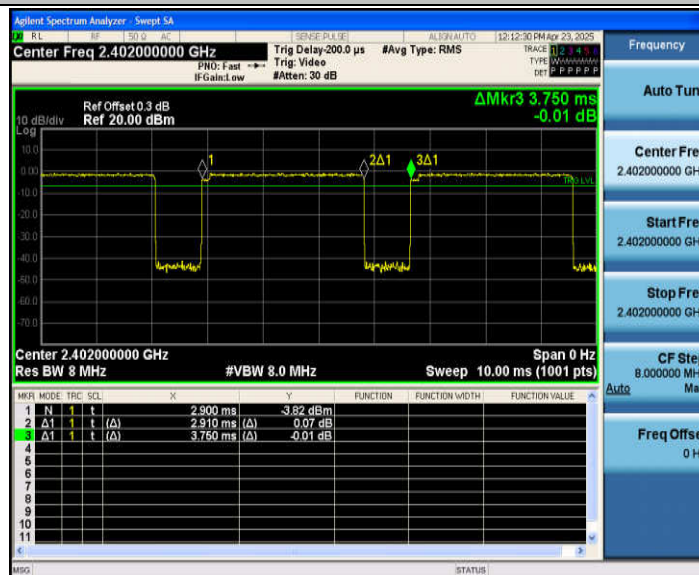
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09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

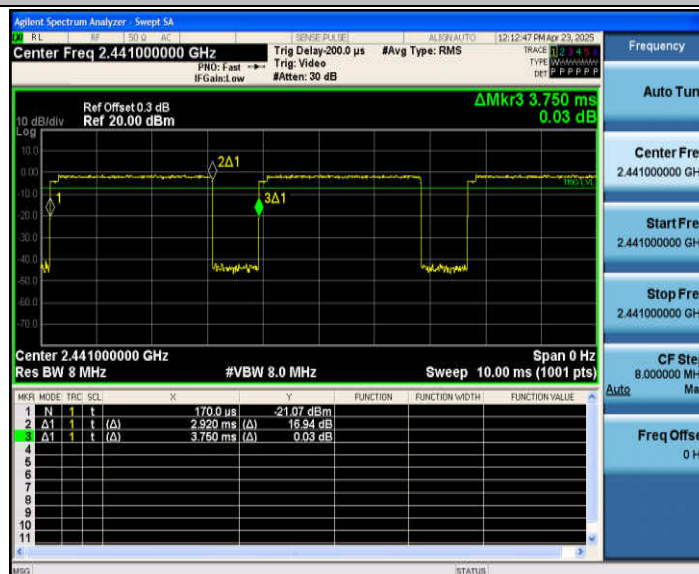




2DH5_Ant1_2402



2DH5_Ant1_2441



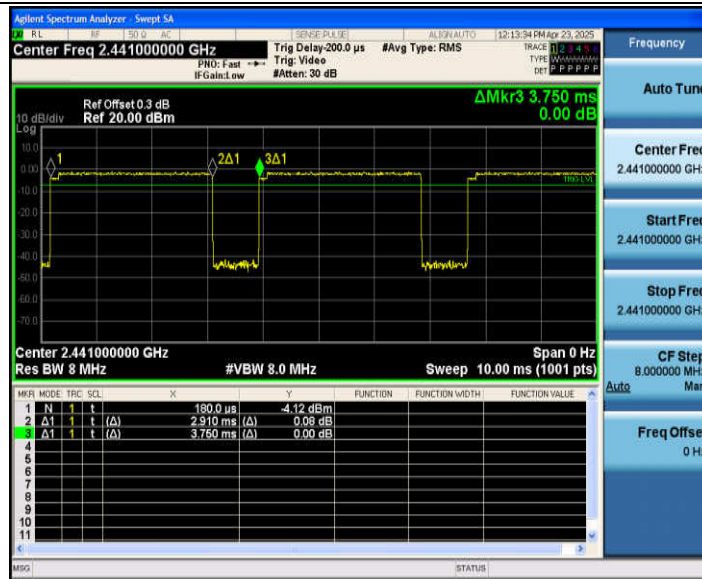
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

