

FCC Appendix RF Test Data for BT

FCC ID : 2BGCX-F7A5S8

Company : Shenzhen Yufengzhixing Electronics Tech Co Ltd

EUT : Car Navigation Multimedia Receiver

Model Number : S8G2A74MS

Report No. : CTA26061500602

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	0.936	2401.553	2402.489	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.960	2479.544	2480.504	---	---
2DH5	Ant1	2402	1.278	2401.382	2402.660	---	---
		2441	1.281	2440.379	2441.660	---	---
		2480	1.326	2479.346	2480.672	---	---
3DH5	Ant1	2402	1.302	2401.364	2402.666	---	---
		2441	1.263	2440.376	2441.639	---	---
		2480	1.269	2479.385	2480.654	---	---

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

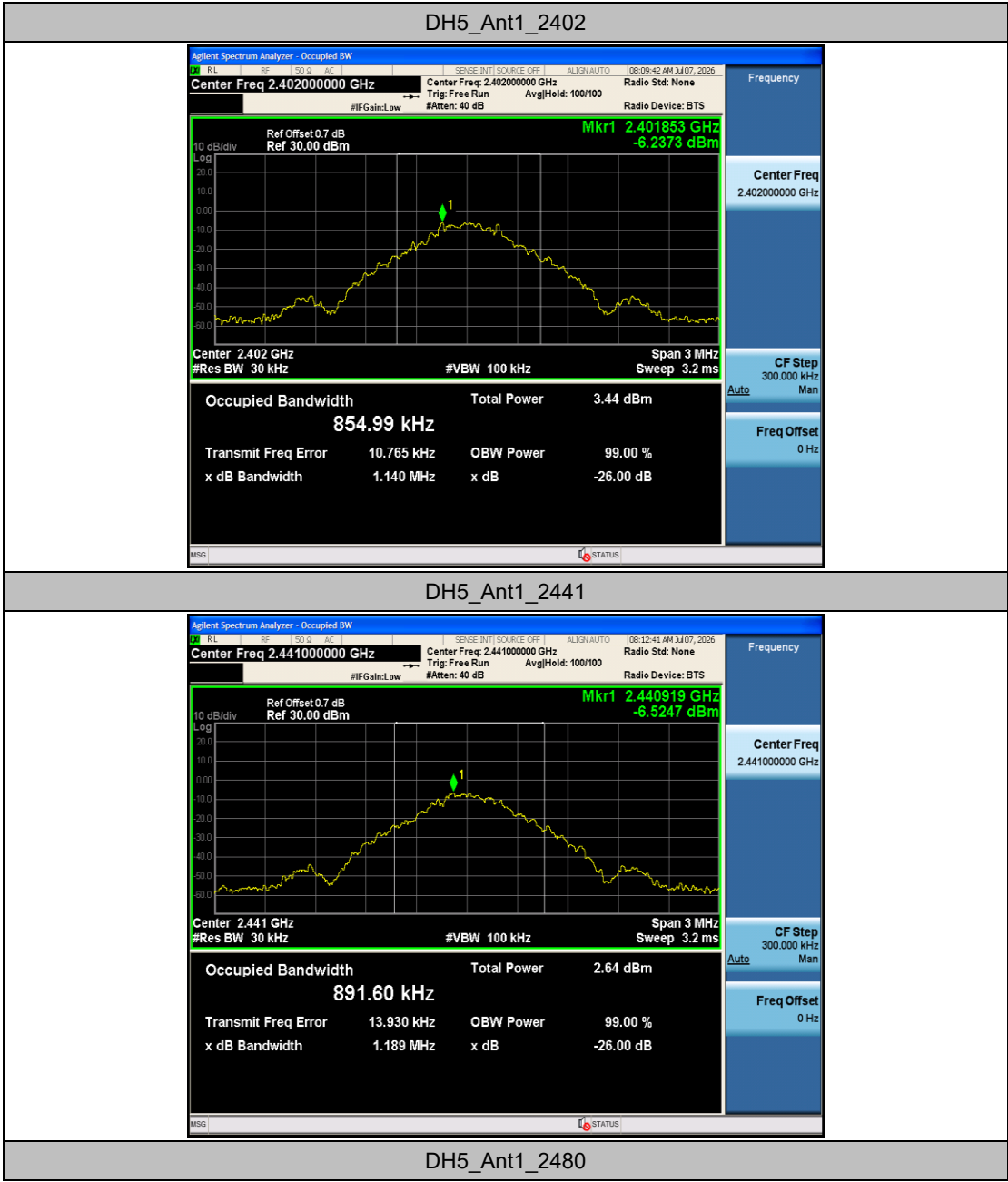


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85499	2401.5833	2402.4383	---	---
		2441	0.89160	2440.5681	2441.4597	---	---
		2480	0.86450	2479.5774	2480.4419	---	---
2DH5	Ant1	2402	1.1877	2401.4176	2402.6053	---	---
		2441	1.1865	2440.4186	2441.6051	---	---
		2480	1.1864	2479.4174	2480.6038	---	---
3DH5	Ant1	2402	1.1841	2401.4194	2402.6035	---	---
		2441	1.1840	2440.4200	2441.6040	---	---
		2480	1.1848	2479.4202	2480.6050	---	---

Test Graphs

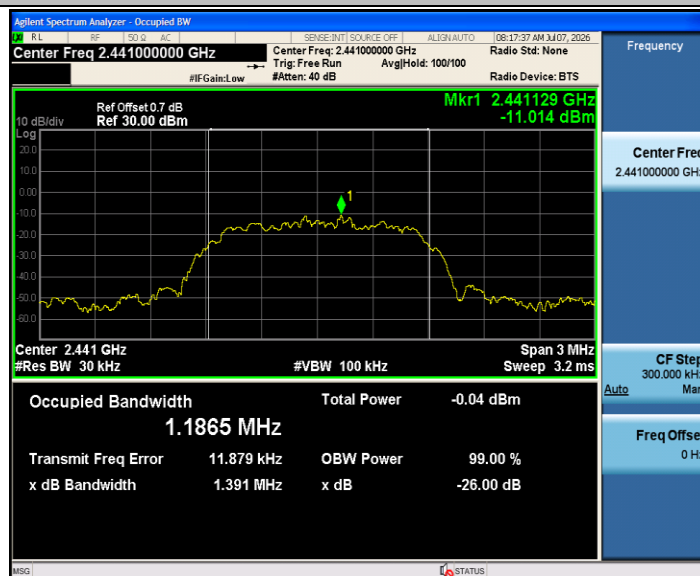




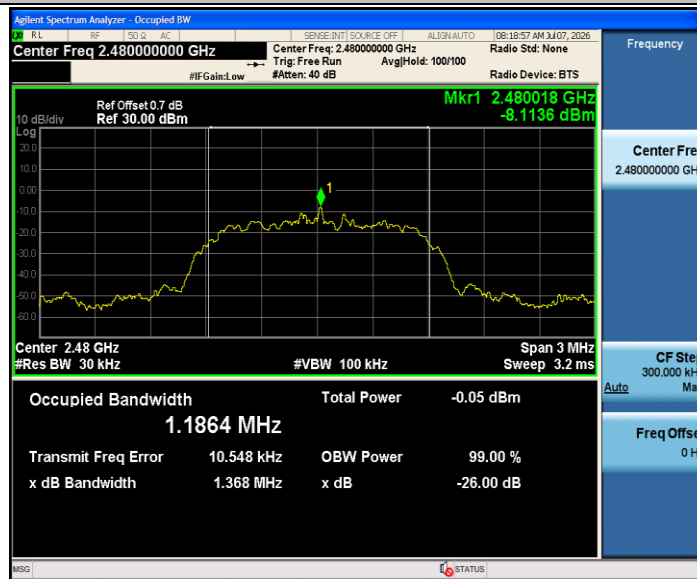
2DH5_Ant1_2402



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	-3.16	≤20.97	PASS
		2441	-3.18	≤20.97	PASS
		2480	-3.44	≤20.97	PASS
2DH5	Ant1	2402	-3.91	≤20.97	PASS
		2441	-3.93	≤20.97	PASS
		2480	-4.29	≤20.97	PASS
3DH5	Ant1	2402	-3.58	≤20.97	PASS
		2441	-3.68	≤20.97	PASS
		2480	-4.01	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.960	PASS
2DH5	Ant1	Hop	0.992	≥ 0.884	PASS
3DH5	Ant1	Hop	0.996	≥ 0.868	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

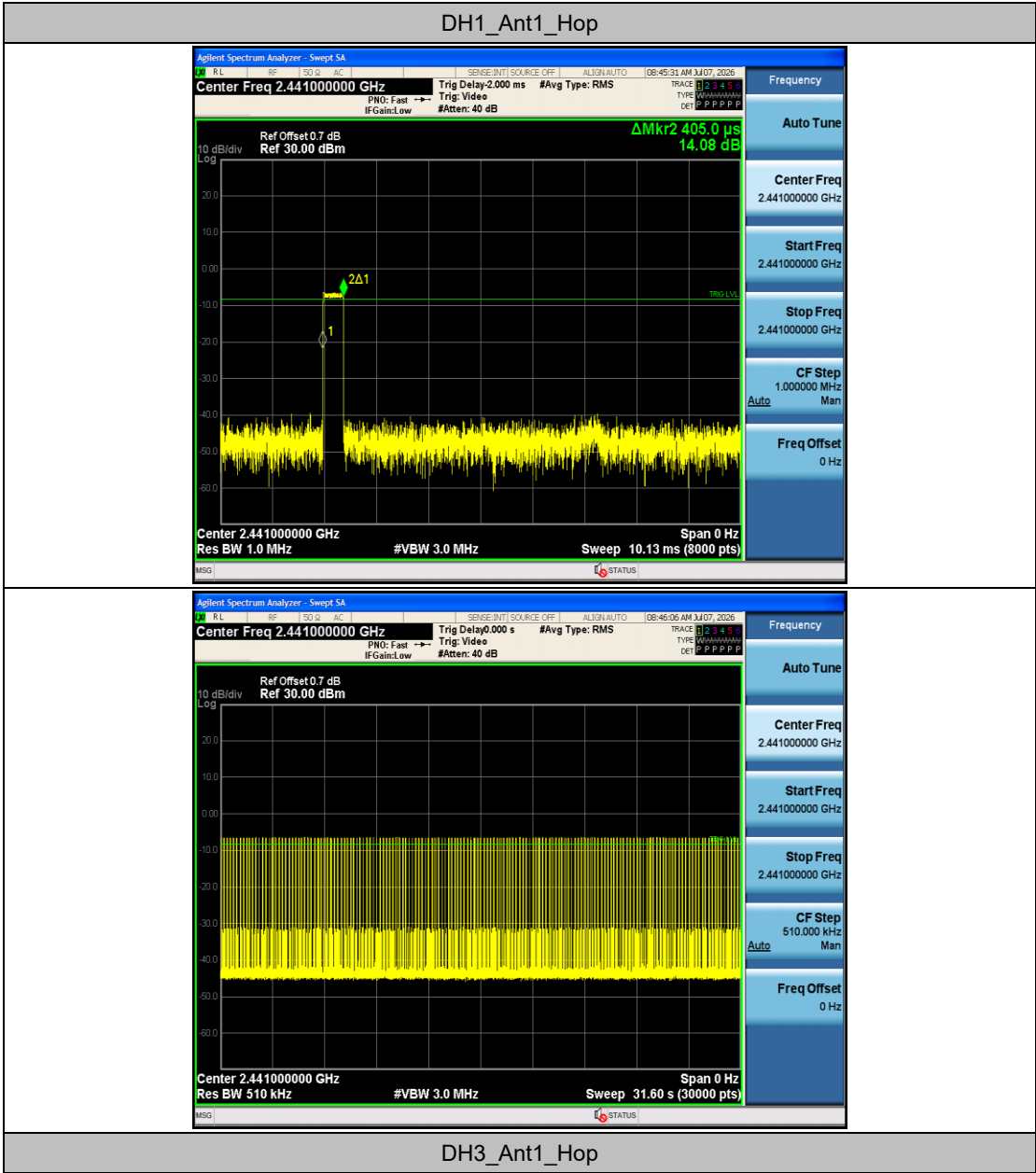


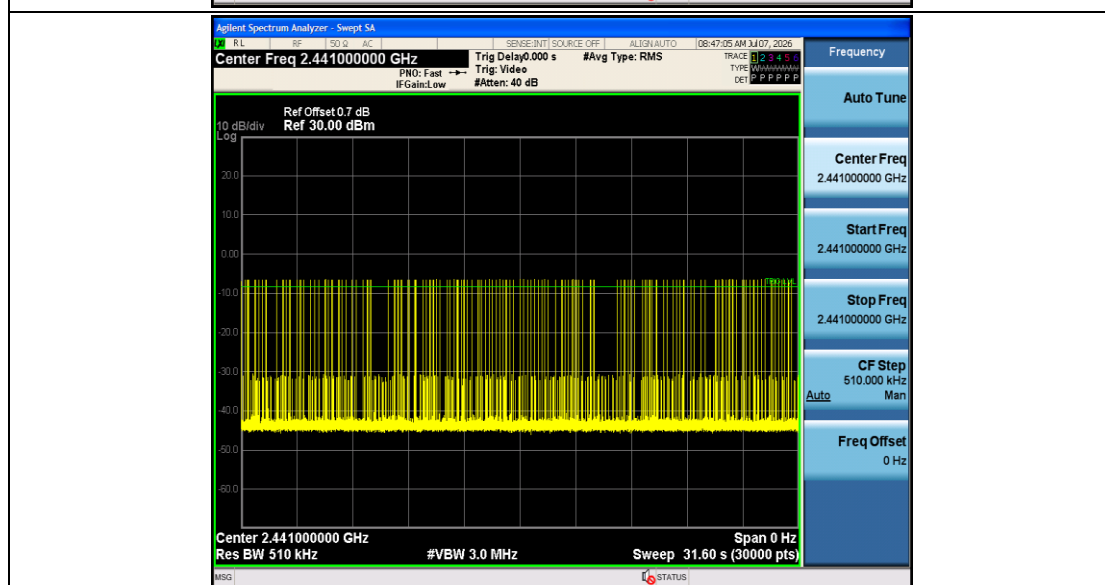
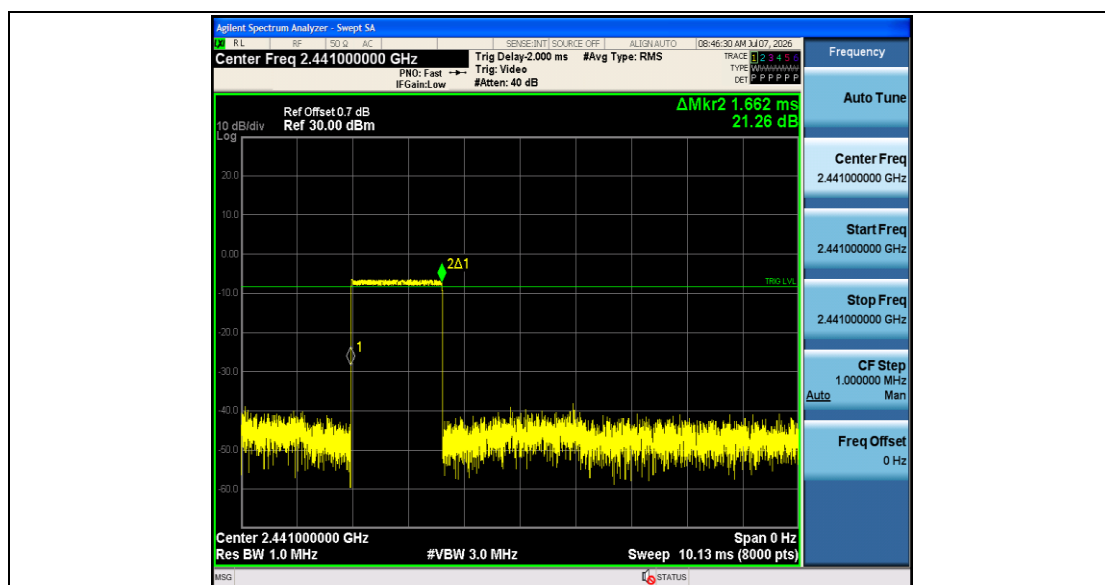
Appendix E: Time of occupancy

Test Result

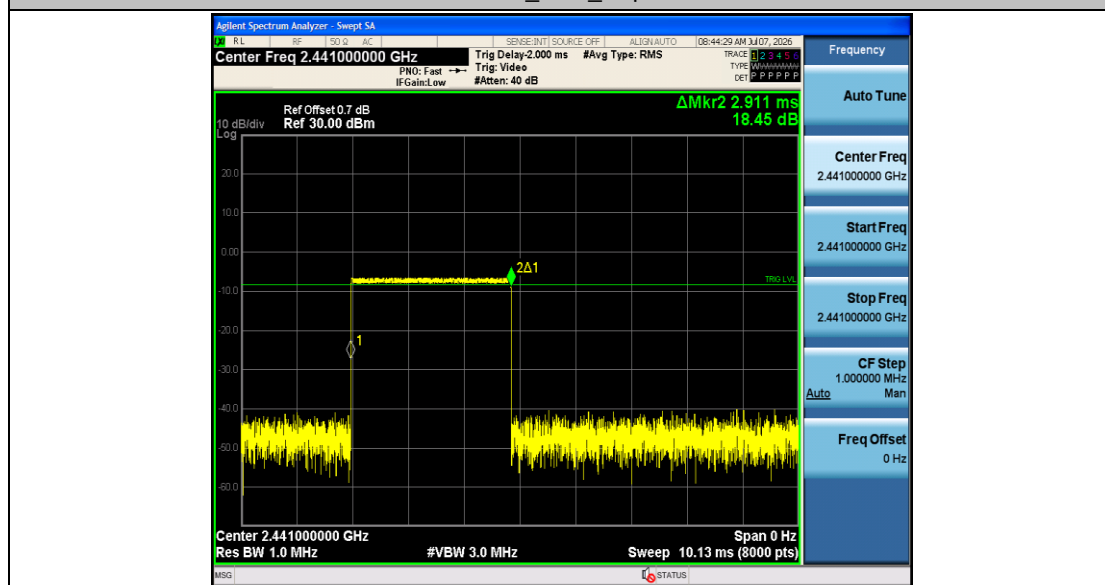
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	160	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.911	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	162	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.916	105	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.414	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	141	0.235	≤0.4	PASS
3DH5	Ant1	Hop	2.917	120	0.35	≤0.4	PASS

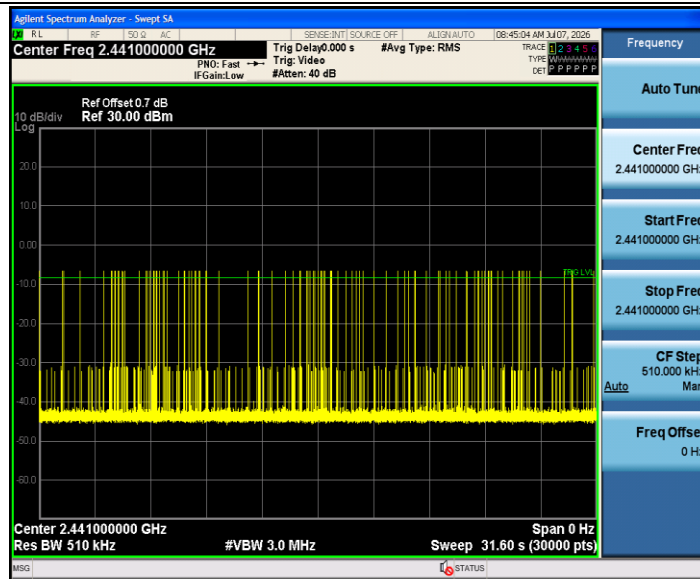
Test Graphs



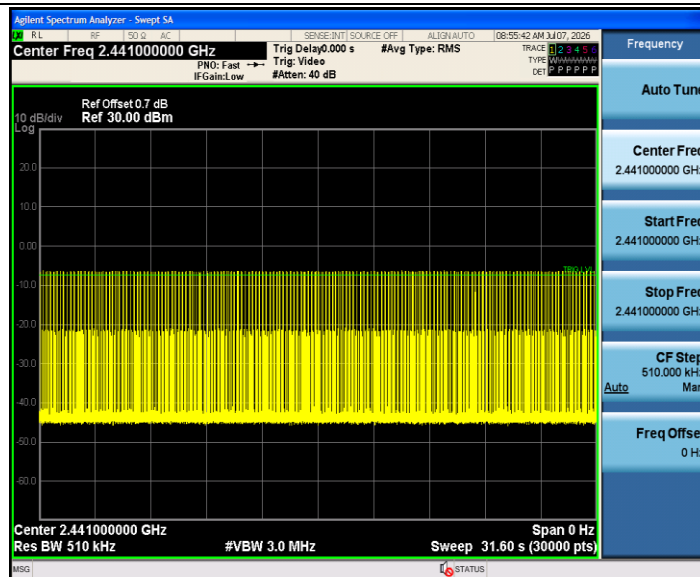
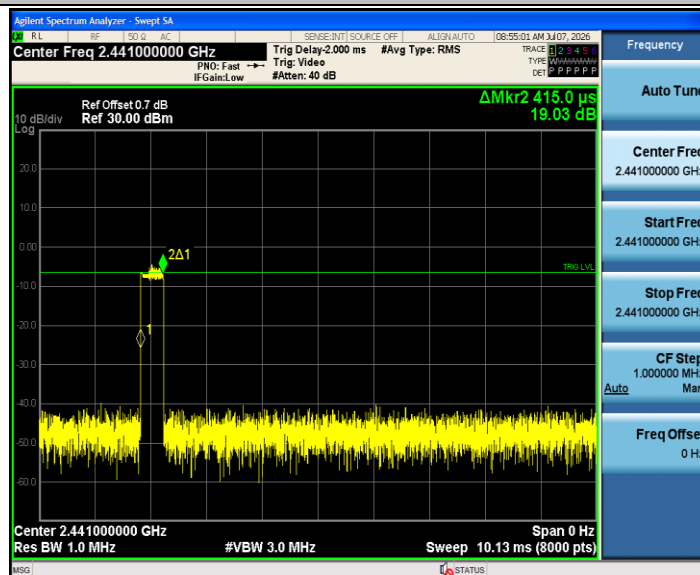


DH5_Ant1_Hop

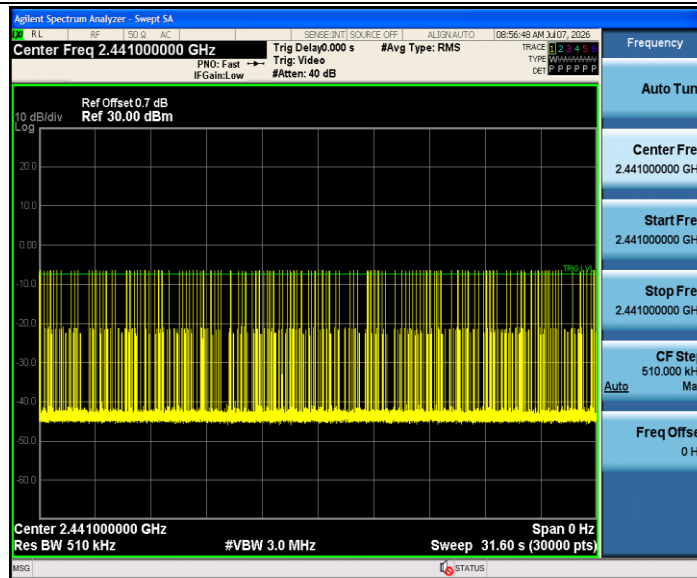
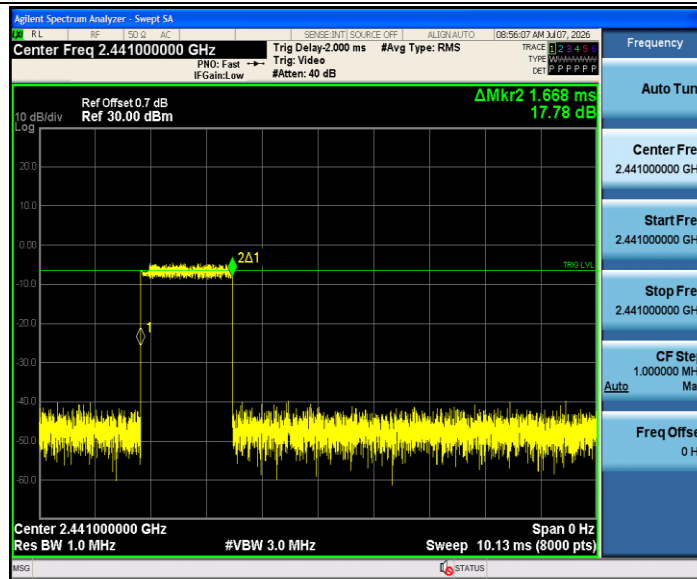




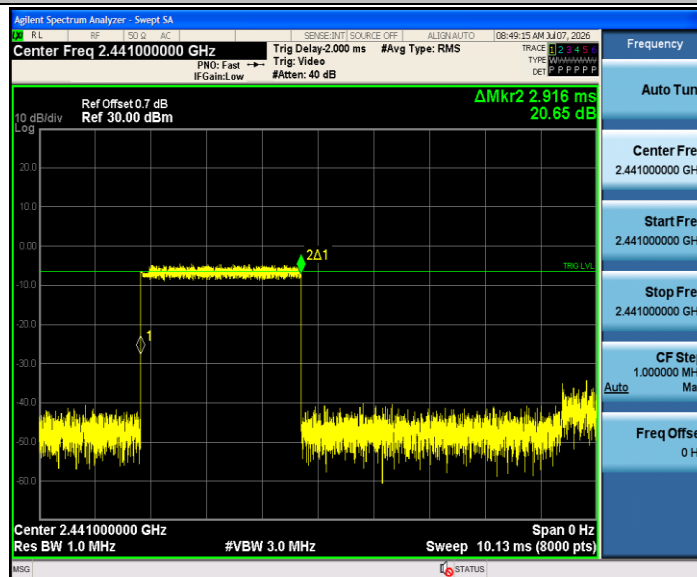
2DH1_Ant1_Hop

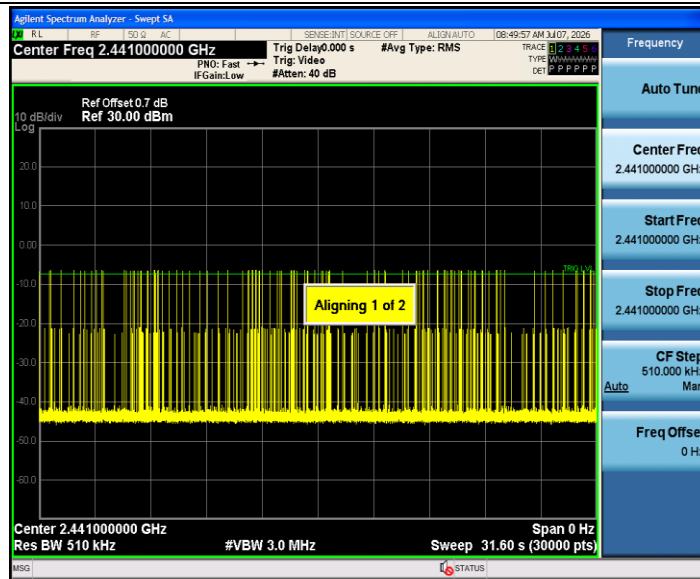


2DH3_Ant1_Hop

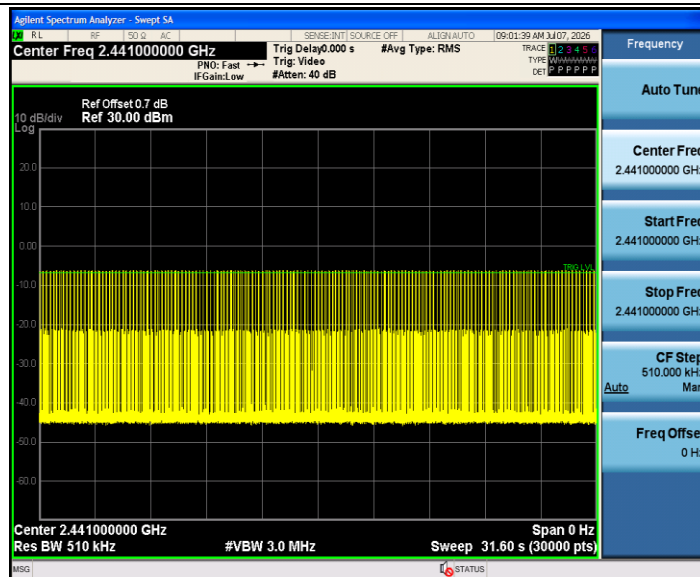
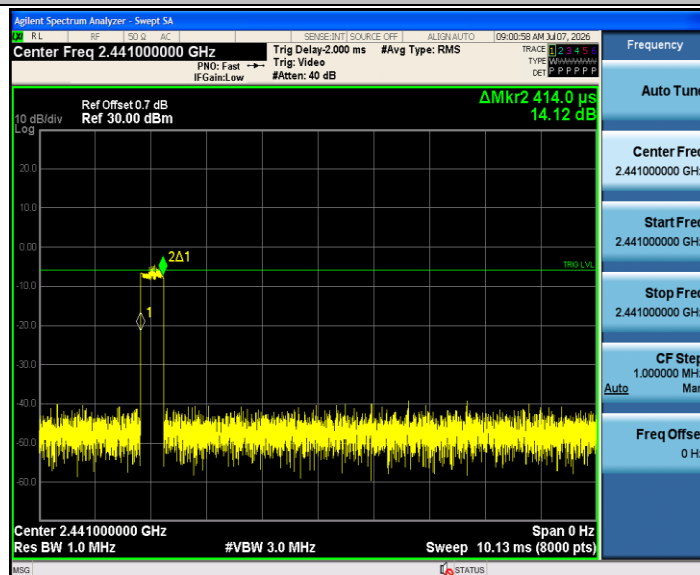


2DH5_Ant1_Hop

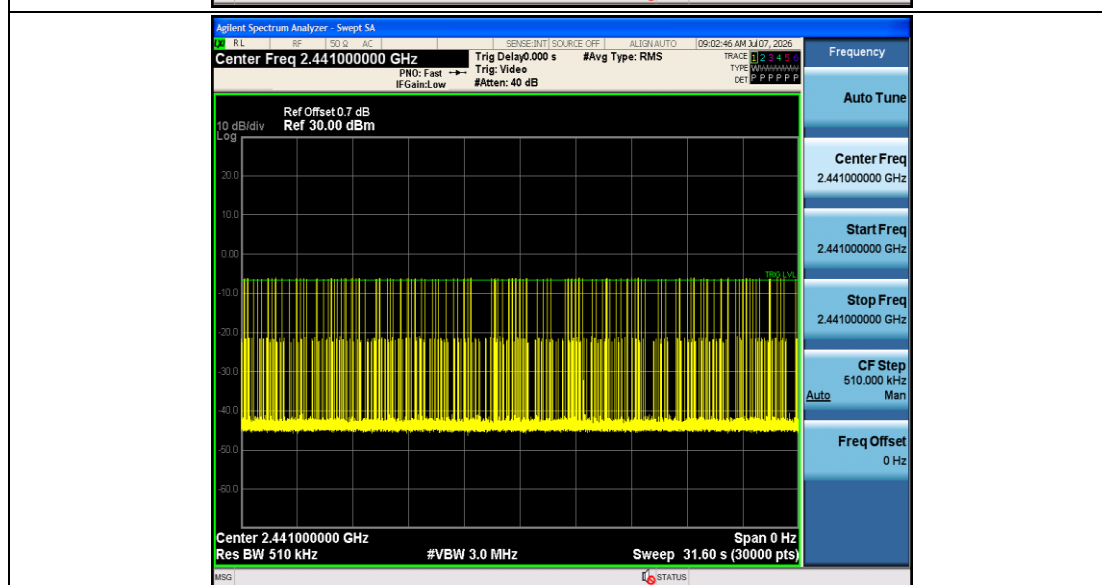
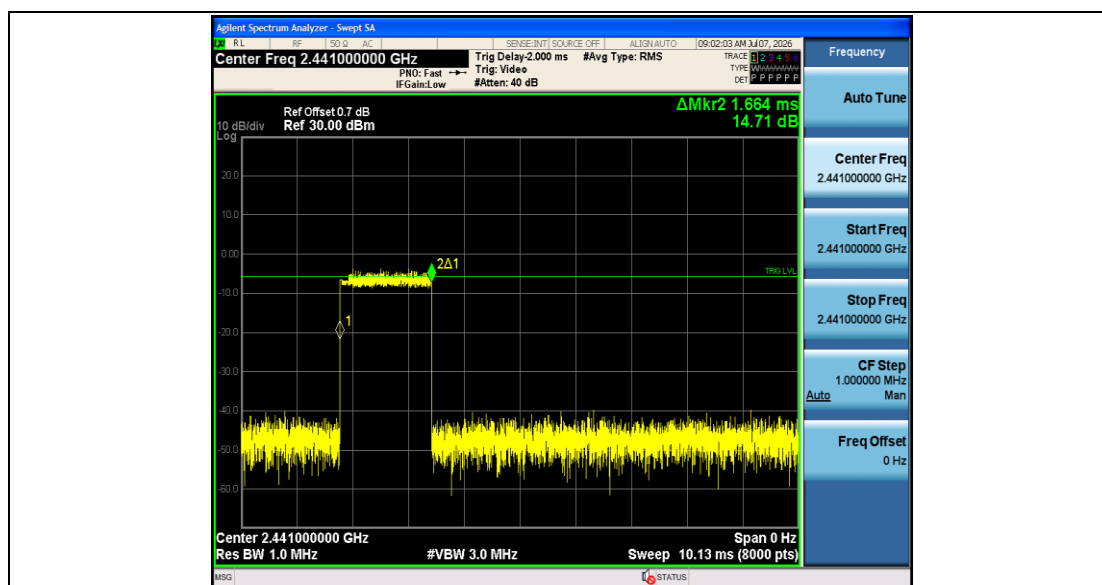




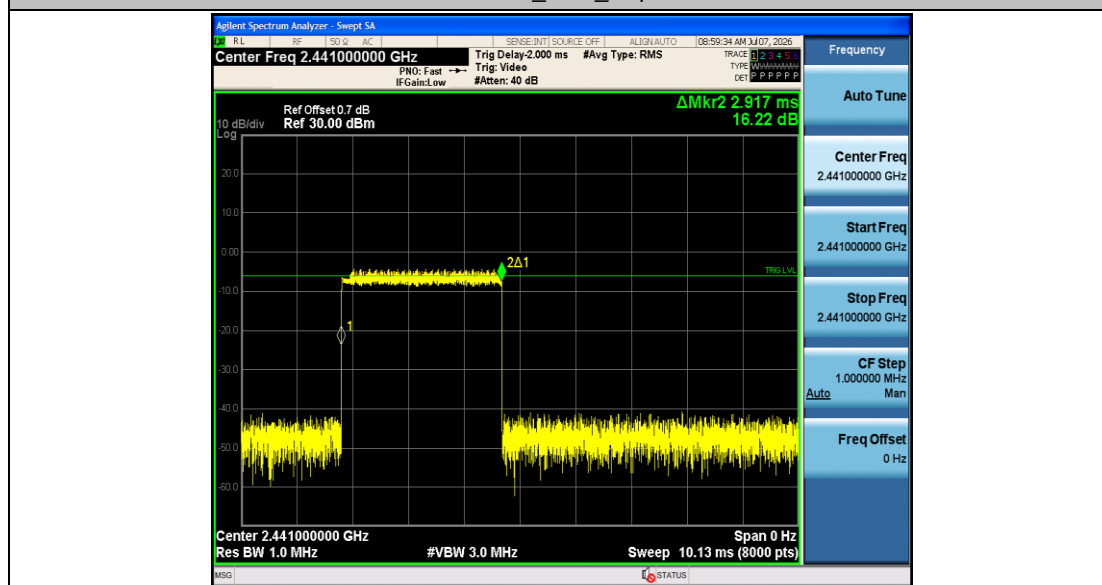
3DH1_Ant1_Hop

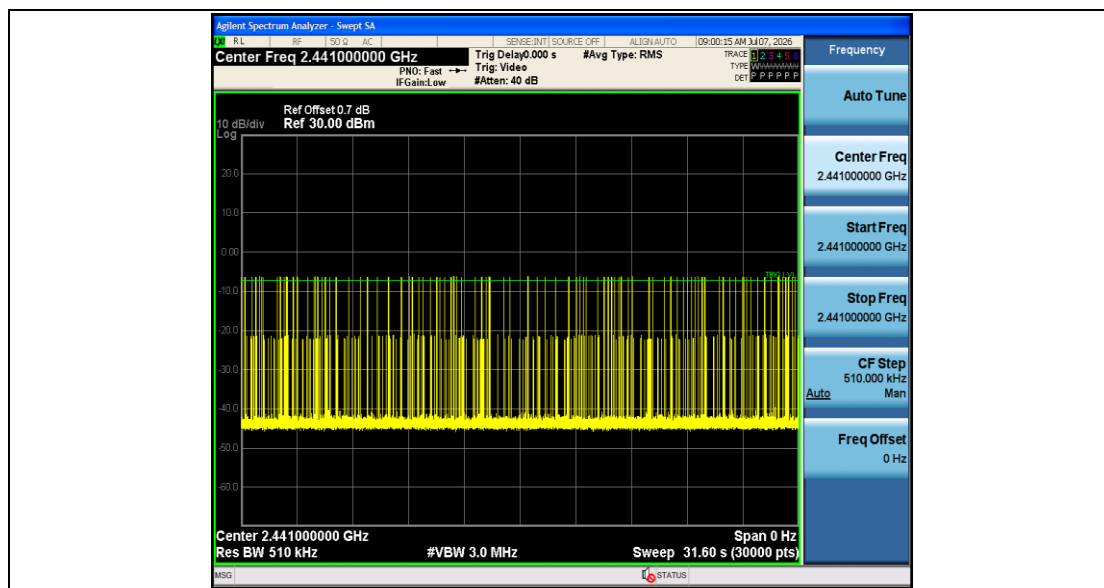


3DH3_Ant1_Hop



3DH5_Ant1_Hop



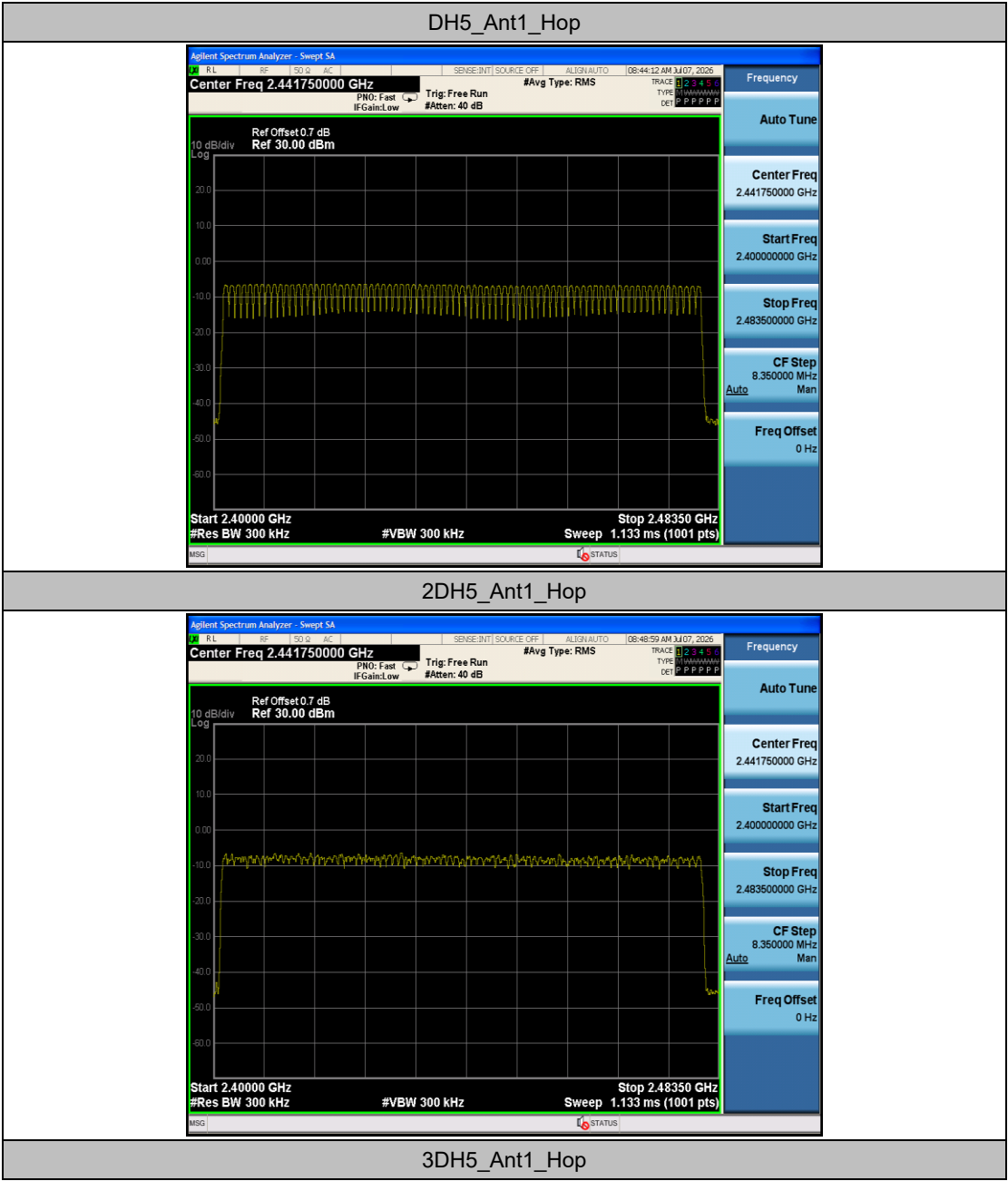


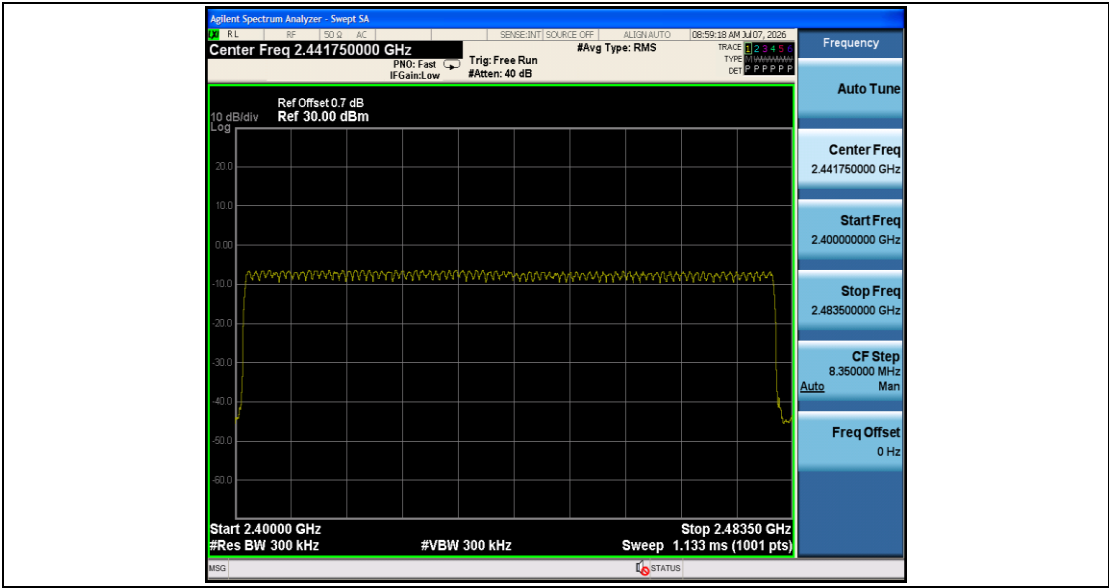
Appendix F: Number of hopping channels

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



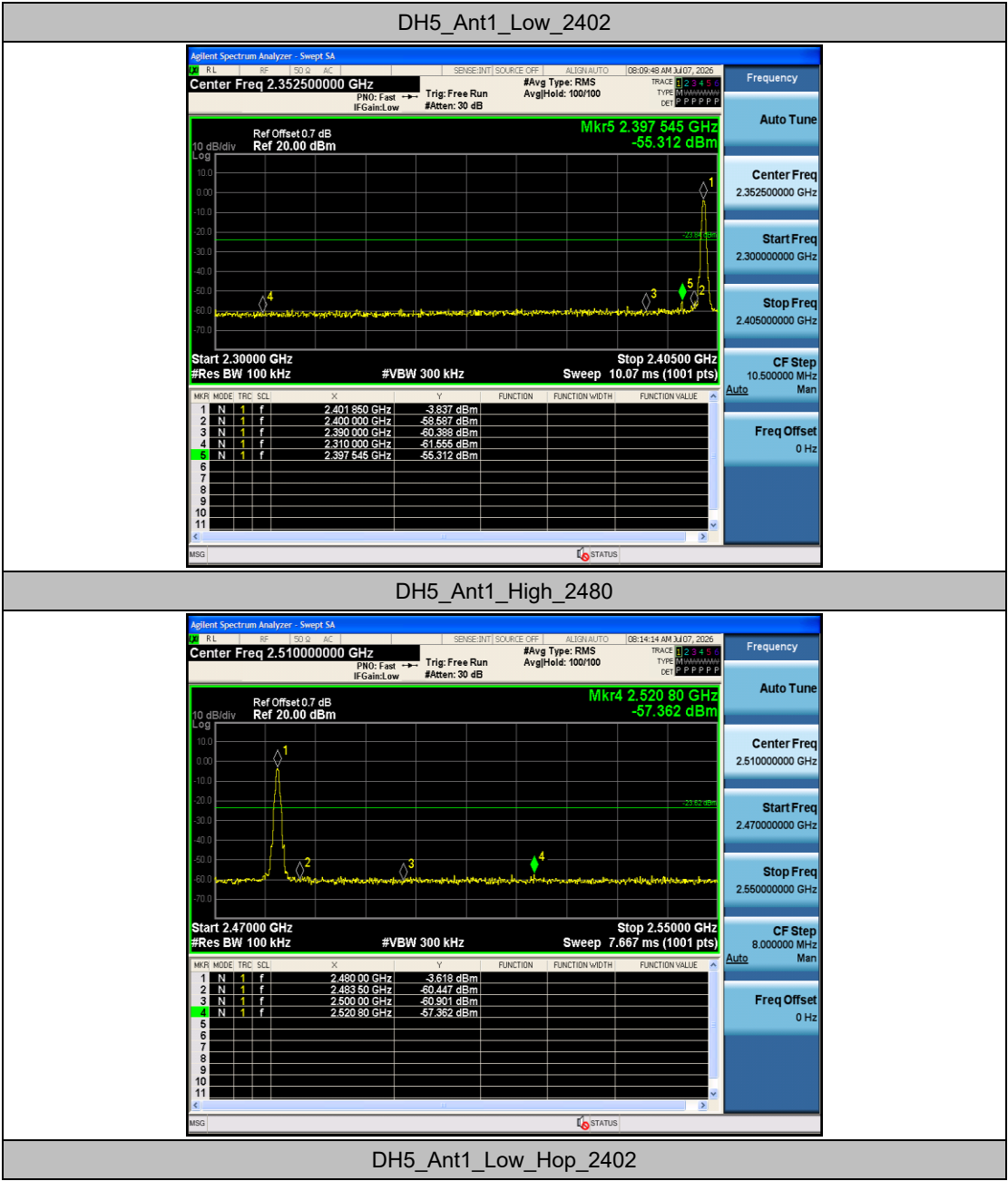


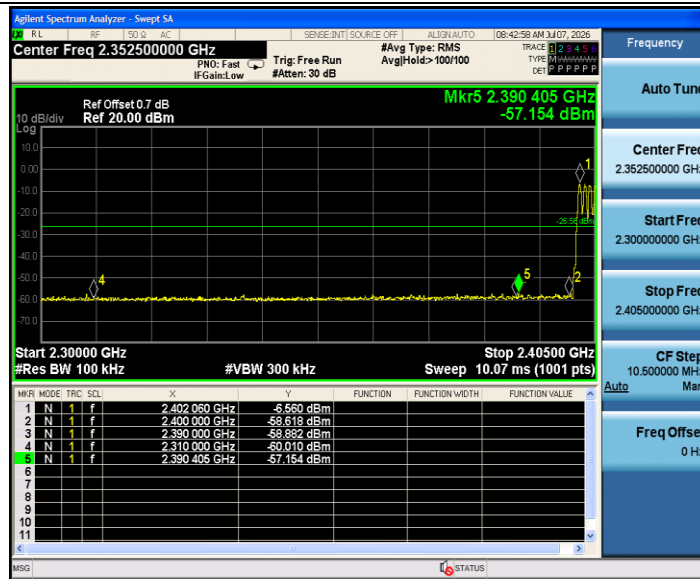
Appendix G: Band edge measurements

Test Result

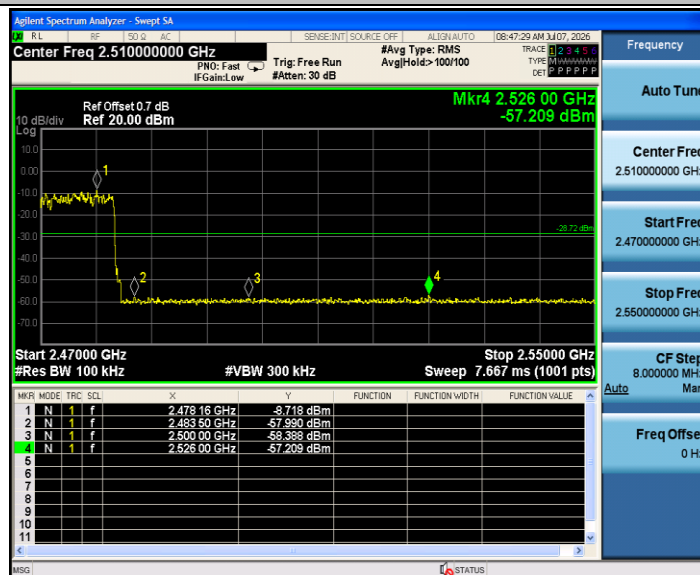
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.84	-55.31	≤-23.84	PASS
		High	2480	-3.62	-57.36	≤-23.62	PASS
		Low	Hop_2402	-6.56	-57.15	≤-26.56	PASS
		High	Hop_2480	-8.72	-57.21	≤-28.72	PASS
2DH5	Ant1	Low	2402	-8.69	-58.84	≤-28.69	PASS
		High	2480	-7.71	-57.46	≤-27.71	PASS
		Low	Hop_2402	-7.84	-57.69	≤-27.84	PASS
		High	Hop_2480	-7.93	-57.6	≤-27.93	PASS
3DH5	Ant1	Low	2402	-7.77	-57.13	≤-27.77	PASS
		High	2480	-6.87	-56.86	≤-26.87	PASS
		Low	Hop_2402	-9.49	-57.7	≤-29.49	PASS
		High	Hop_2480	-10.54	-57.17	≤-30.54	PASS

Test Graphs

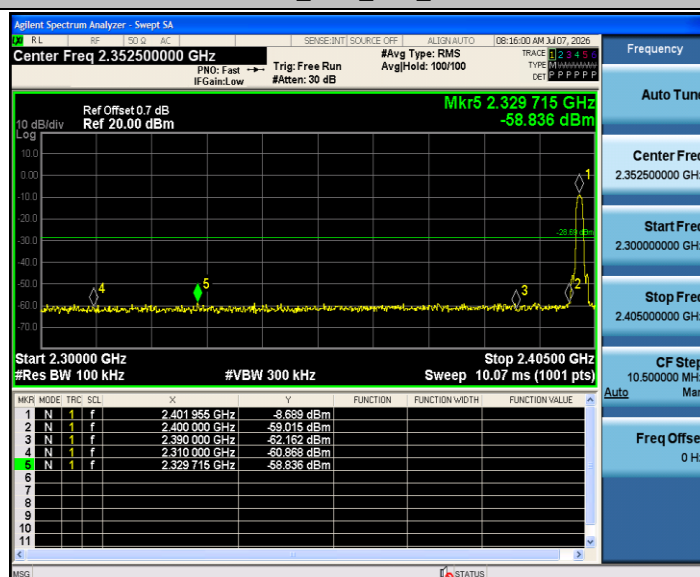




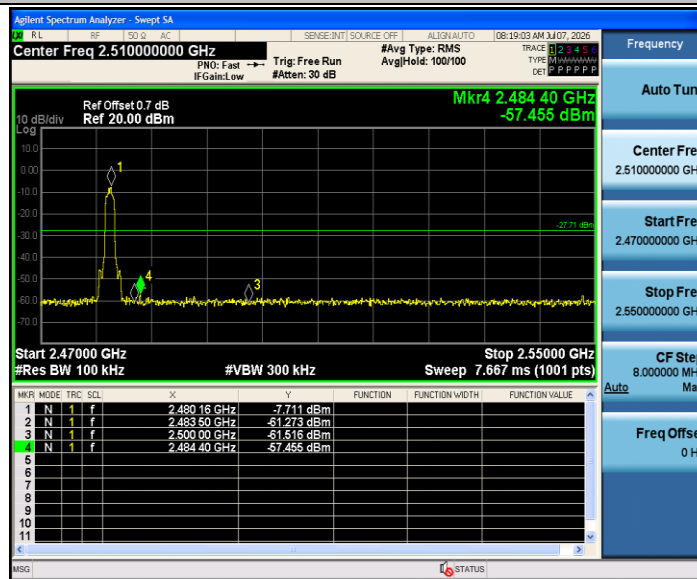
DH5_Ant1_High_Hop_2480



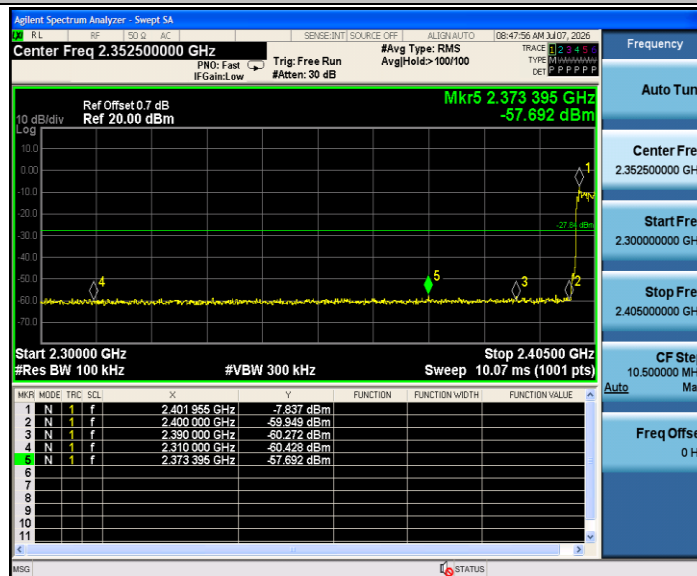
2DH5_Ant1_Low_2402



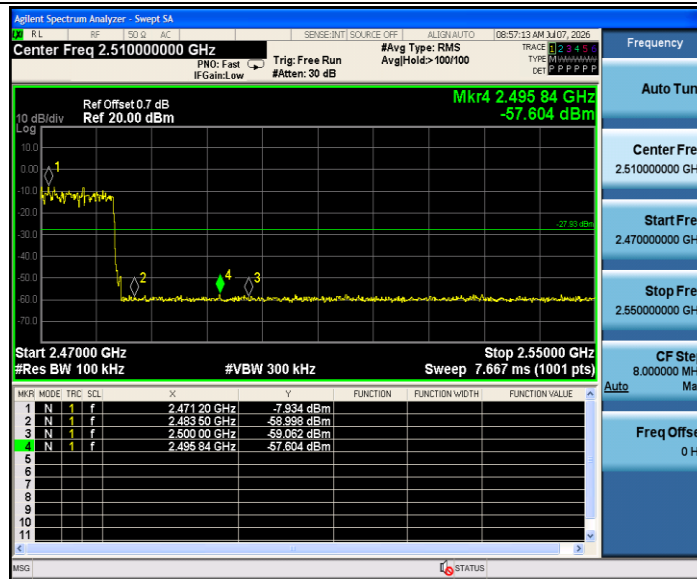
2DH5_Ant1_High_2480



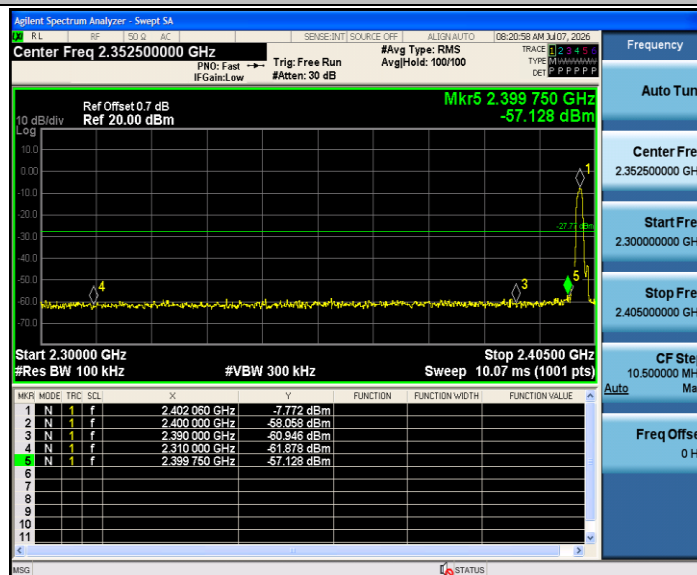
2DH5_Ant1_Low_Hop_2402



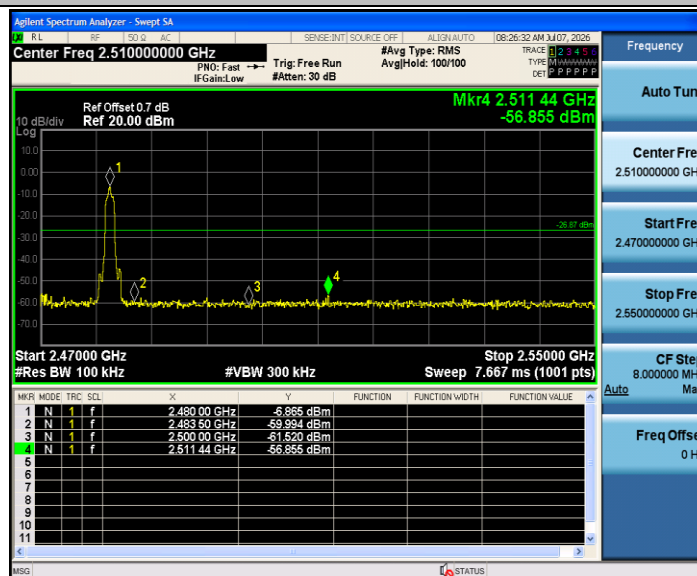
2DH5_Ant1_High_Hop_2480



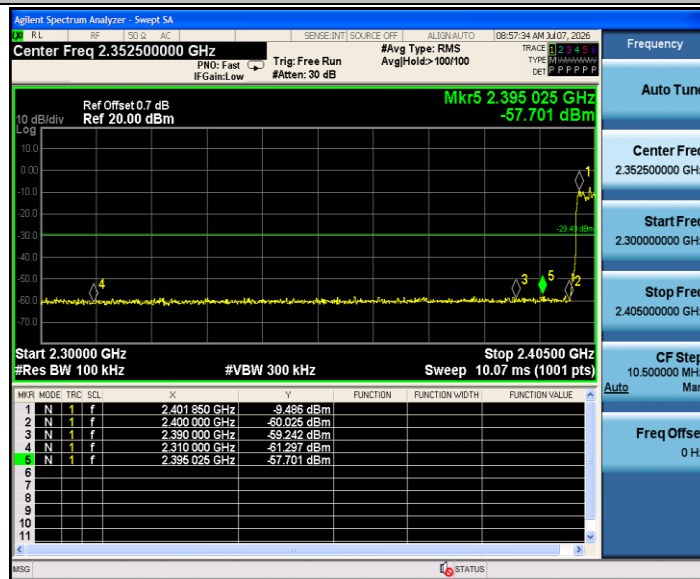
3DH5_Ant1_Low_2402



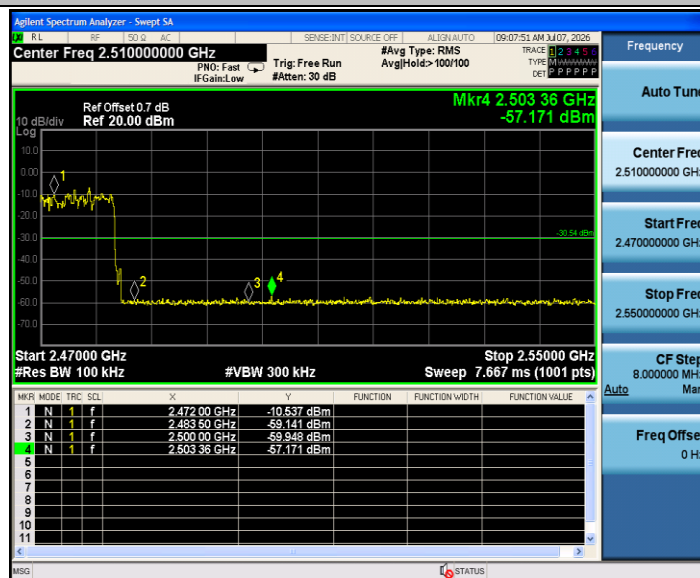
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

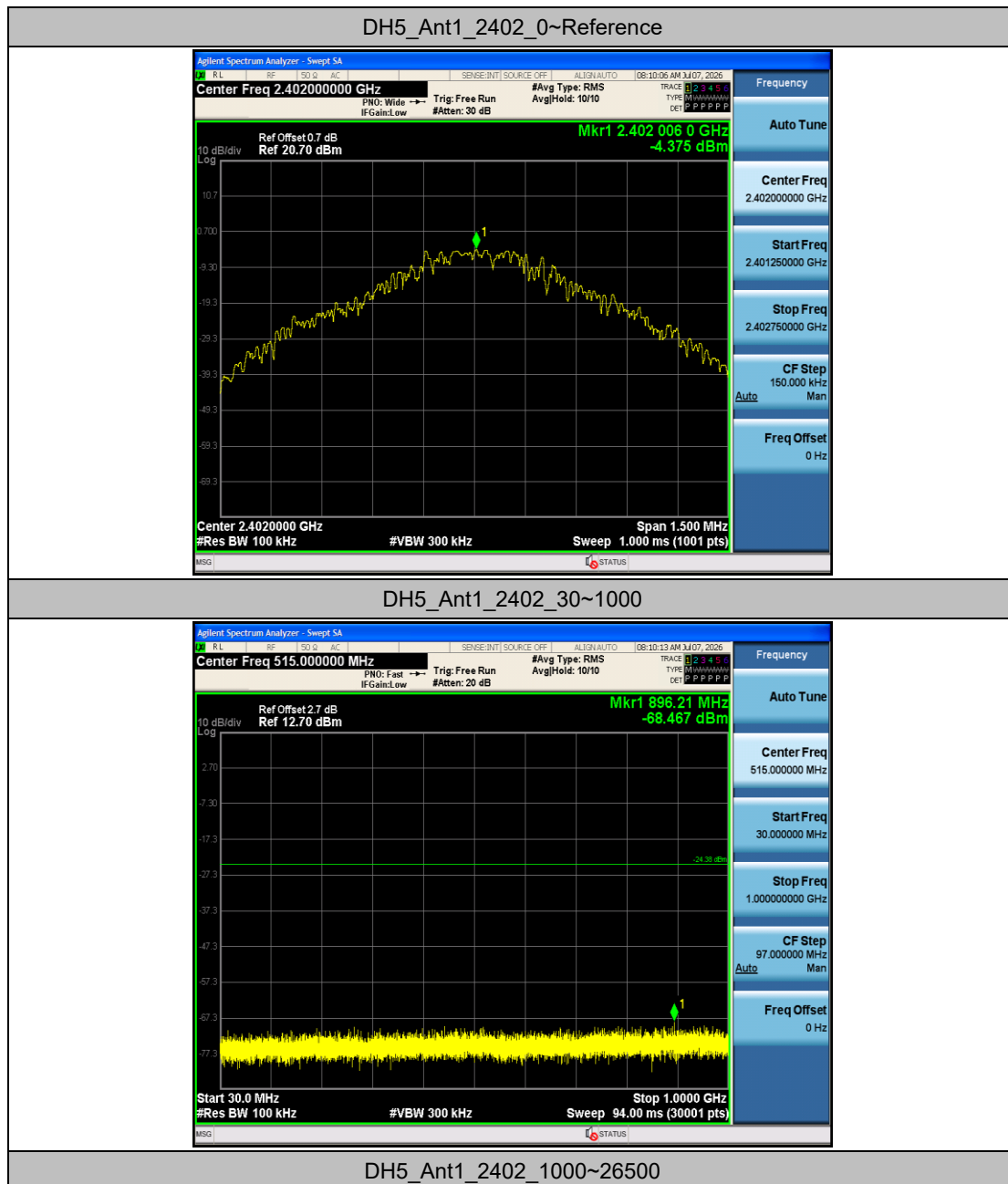


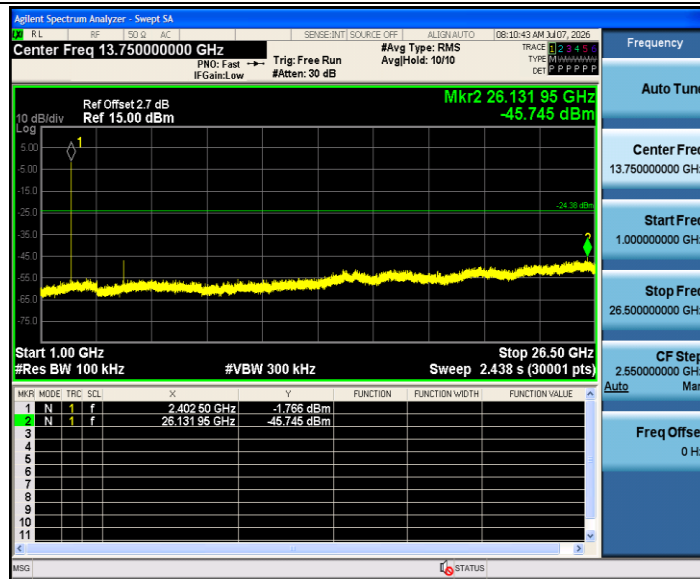
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-68.47	≤-24.38	PASS
			1000~26500	-4.38	-45.75	≤-24.38	PASS
		2441	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-68.58	≤-24.02	PASS
			1000~26500	-4.02	-46.36	≤-24.02	PASS
		2480	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-68.99	≤-24.69	PASS
			1000~26500	-4.69	-44.99	≤-24.69	PASS
2DH5	Ant1	2402	Reference	-8.05	-8.05	---	PASS
			30~1000	-8.05	-68.98	≤-28.05	PASS
			1000~26500	-8.05	-45.94	≤-28.05	PASS
		2441	Reference	-9.69	-9.69	---	PASS
			30~1000	-9.69	-68.54	≤-29.69	PASS
			1000~26500	-9.69	-46.95	≤-29.69	PASS
		2480	Reference	-10.52	-10.52	---	PASS
			30~1000	-10.52	-68.51	≤-30.52	PASS
			1000~26500	-10.52	-47.04	≤-30.52	PASS
3DH5	Ant1	2402	Reference	-9.22	-9.22	---	PASS
			30~1000	-9.22	-69	≤-29.22	PASS
			1000~26500	-9.22	-46.33	≤-29.22	PASS
		2441	Reference	-8.62	-8.62	---	PASS
			30~1000	-8.62	-69.37	≤-28.62	PASS
			1000~26500	-8.62	-46.39	≤-28.62	PASS
		2480	Reference	-10.03	-10.03	---	PASS
			30~1000	-10.03	-68.1	≤-30.03	PASS
			1000~26500	-10.03	-45.39	≤-30.03	PASS

Test Graphs

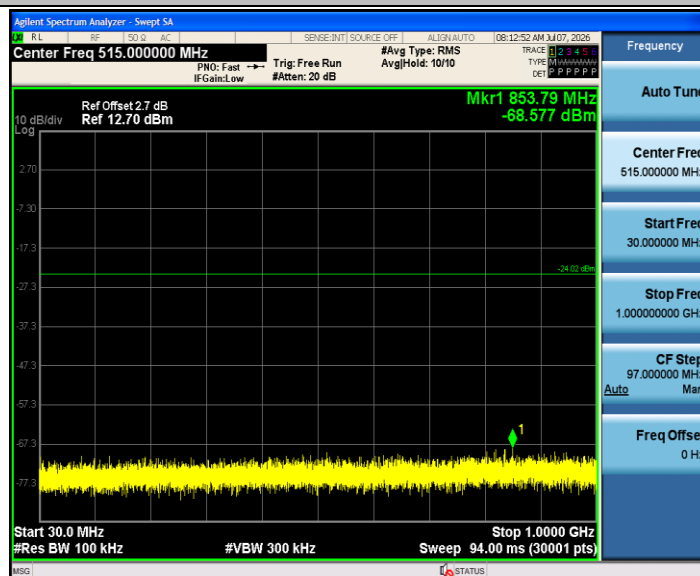




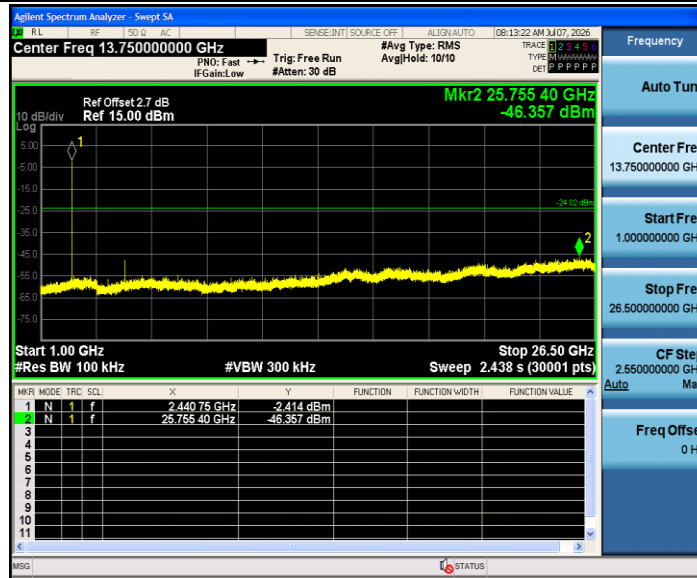
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



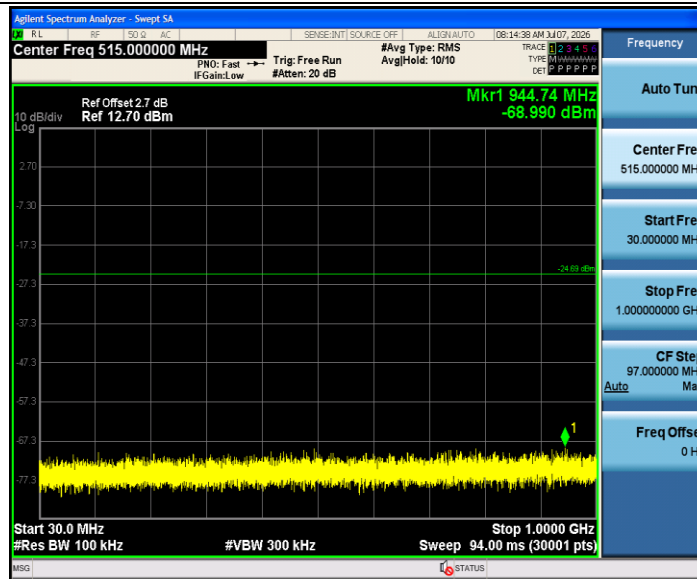
DH5_Ant1_2441_1000~26500



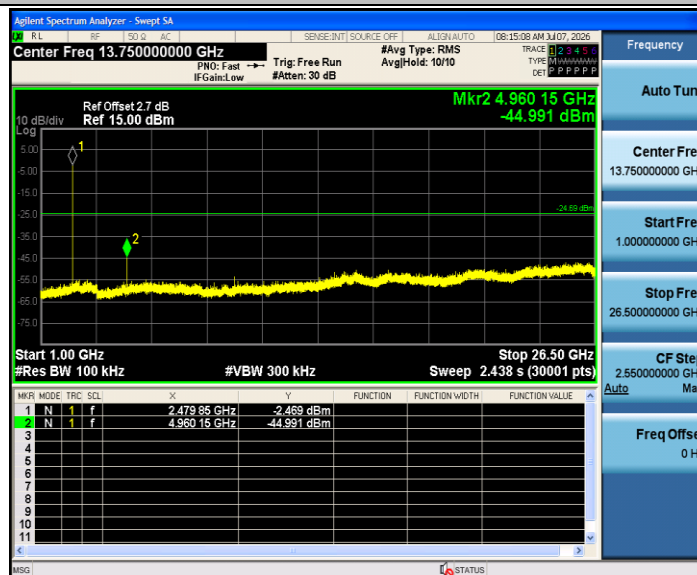
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

