

Appendix J: Emissions in Restricted Bands

Test Result

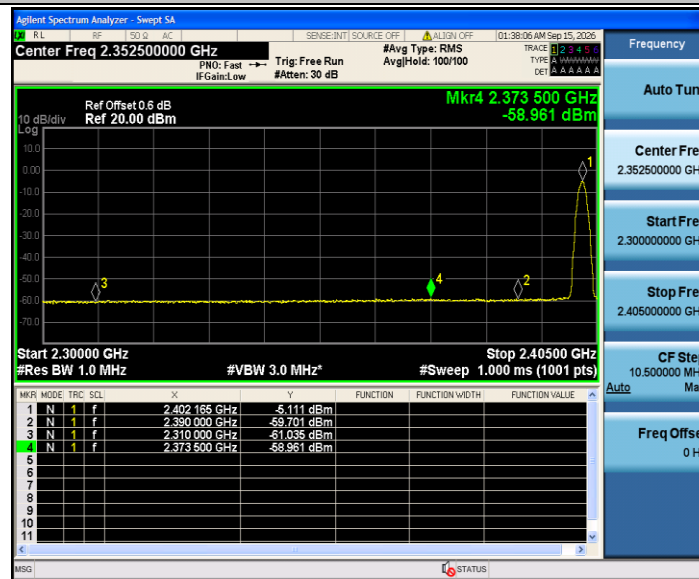
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-61.04	2.00	1.10	37.26	≤54	PASS
				AV	2373.500	-58.96	2.00	1.10	39.34	≤54	PASS
				AV	2390.000	-59.7	2.00	1.10	38.60	≤54	PASS
				Peak	2310.000	-52.58	2.00	0.00	44.62	≤74	PASS
				Peak	2329.610	-49.6	2.00	0.00	47.60	≤74	PASS
				Peak	2390.000	-51.81	2.00	0.00	45.39	≤74	PASS
		High	2480	AV	2483.500	-59.25	2.00	1.10	39.05	≤54	PASS
				AV	2484.080	-58.25	2.00	1.10	40.05	≤54	PASS
				AV	2500.000	-59.1	2.00	1.10	39.20	≤54	PASS
				Peak	2483.500	-49.74	2.00	0.00	47.46	≤74	PASS
				Peak	2485.680	-48.91	2.00	0.00	48.29	≤74	PASS
				Peak	2500.000	-49.95	2.00	0.00	47.25	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-60.28	2.00	1.09	38.01	≤54	PASS
				AV	2371.715	-58.85	2.00	1.09	39.44	≤54	PASS
				AV	2390.000	-59.64	2.00	1.09	38.65	≤54	PASS
				Peak	2310.000	-53.65	2.00	0.00	43.55	≤74	PASS
				Peak	2334.545	-48.65	2.00	0.00	48.55	≤74	PASS
				Peak	2390.000	-51.07	2.00	0.00	46.13	≤74	PASS
		High	2480	AV	2483.500	-58.85	2.00	1.09	39.44	≤54	PASS
				AV	2484.000	-58.71	2.00	1.09	39.58	≤54	PASS
				AV	2500.000	-59.37	2.00	1.09	38.92	≤54	PASS
				Peak	2483.500	-50.61	2.00	0.00	46.59	≤74	PASS
				Peak	2484.320	-47.89	2.00	0.00	49.31	≤74	PASS
				Peak	2500.000	-50.98	2.00	0.00	46.22	≤74	PASS

Note:

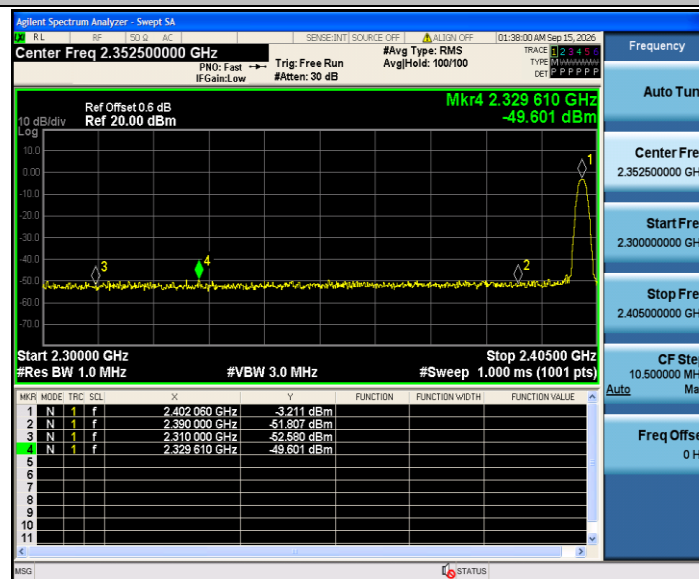
The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

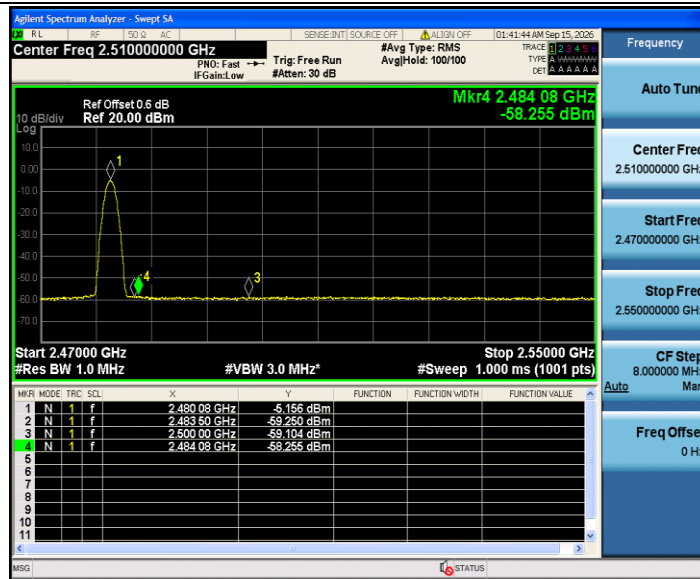
DH5_Ant1_Low_2402_AV



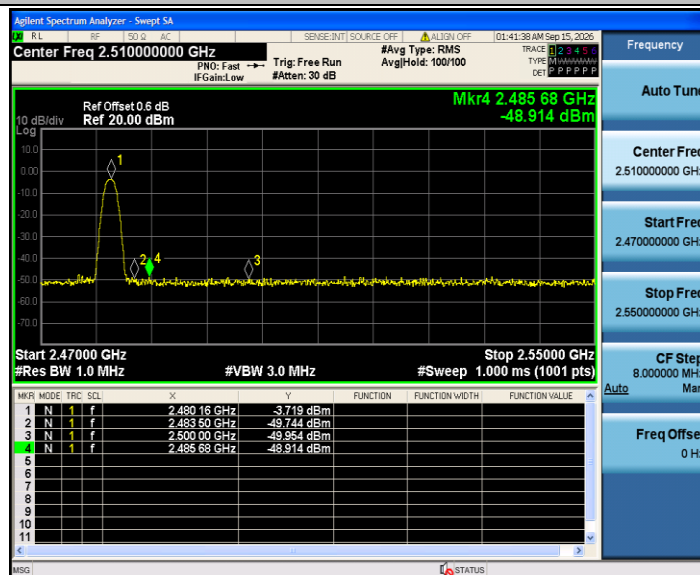
DH5_Ant1_Low_2402_Peak



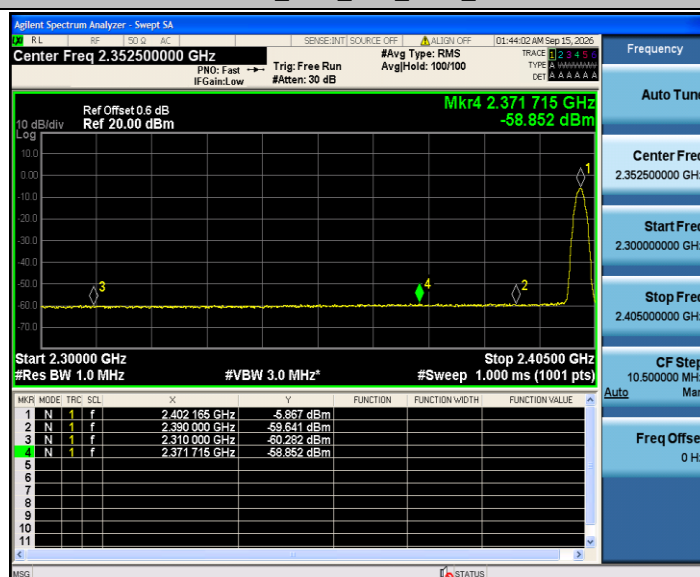
DH5_Ant1_High_2480_AV



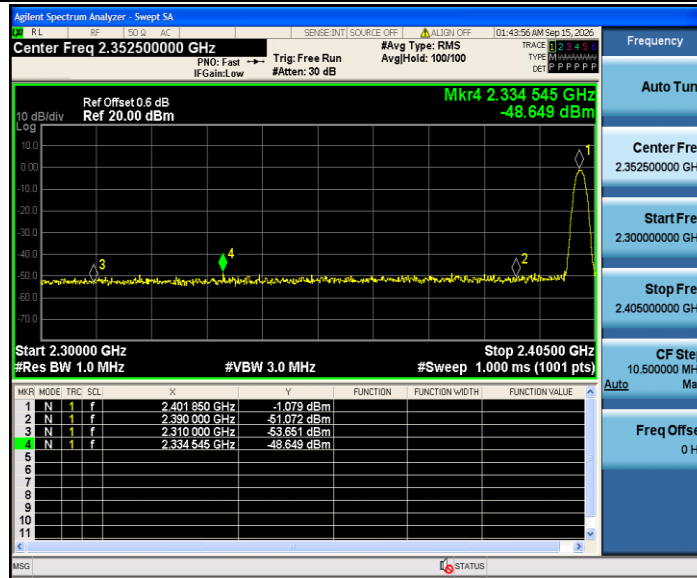
DH5_Ant1_High_2480_Peak



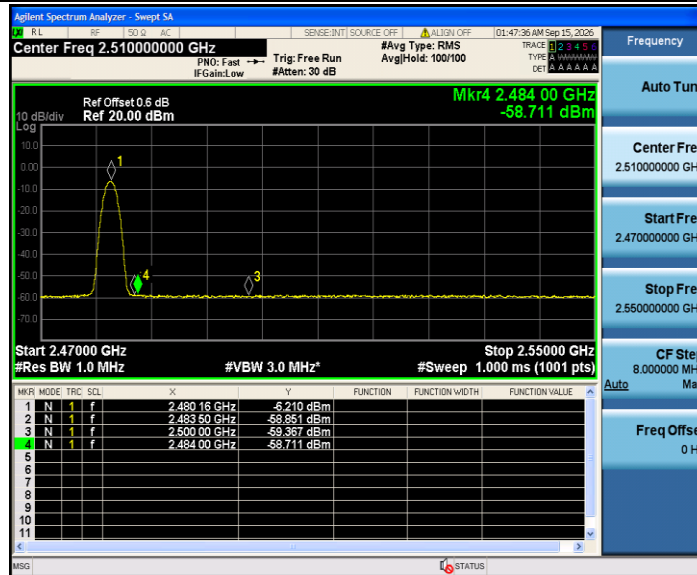
2DH5_Ant1_Low_2402_AV



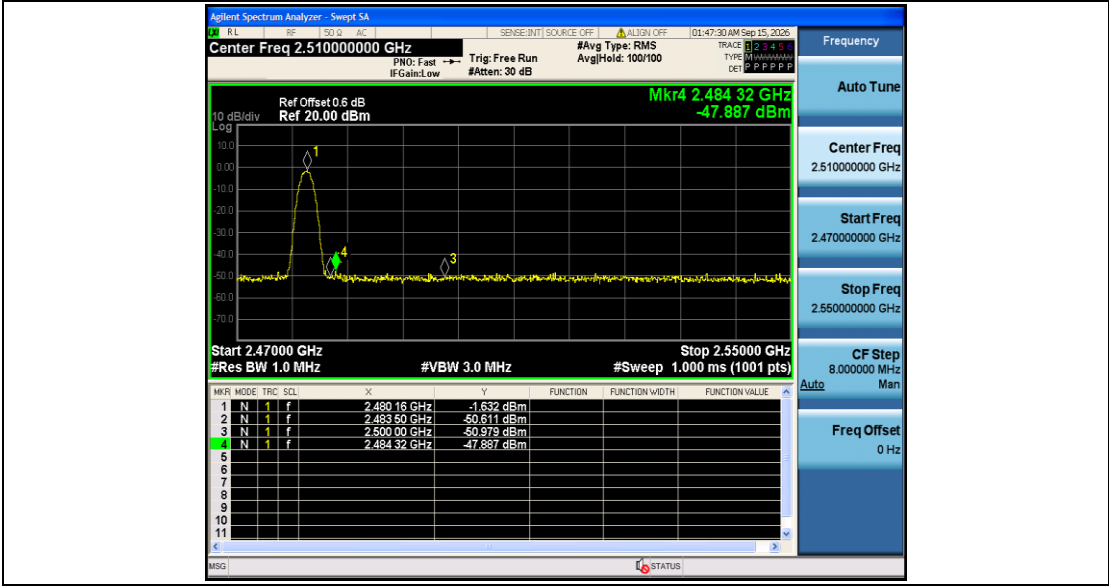
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak



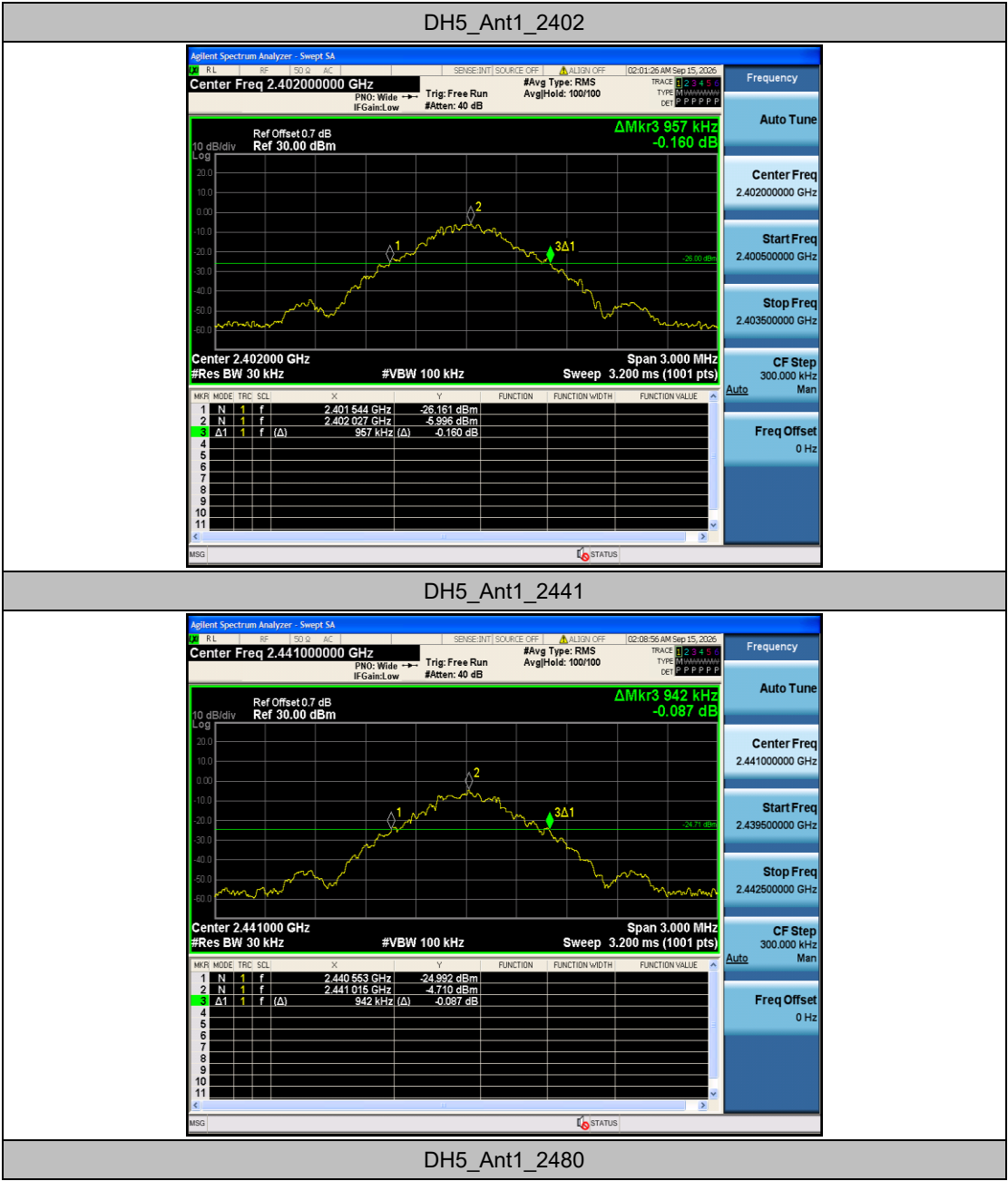
FCC Appendix RF Test Data for BT for Antenna 2

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	0.942	2440.553	2441.495	---	---
		2480	0.963	2479.544	2480.507	---	---
2DH5	Ant1	2402	1.344	2401.337	2402.681	---	---
		2441	1.338	2440.340	2441.678	---	---
		2480	1.341	2479.340	2480.681	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

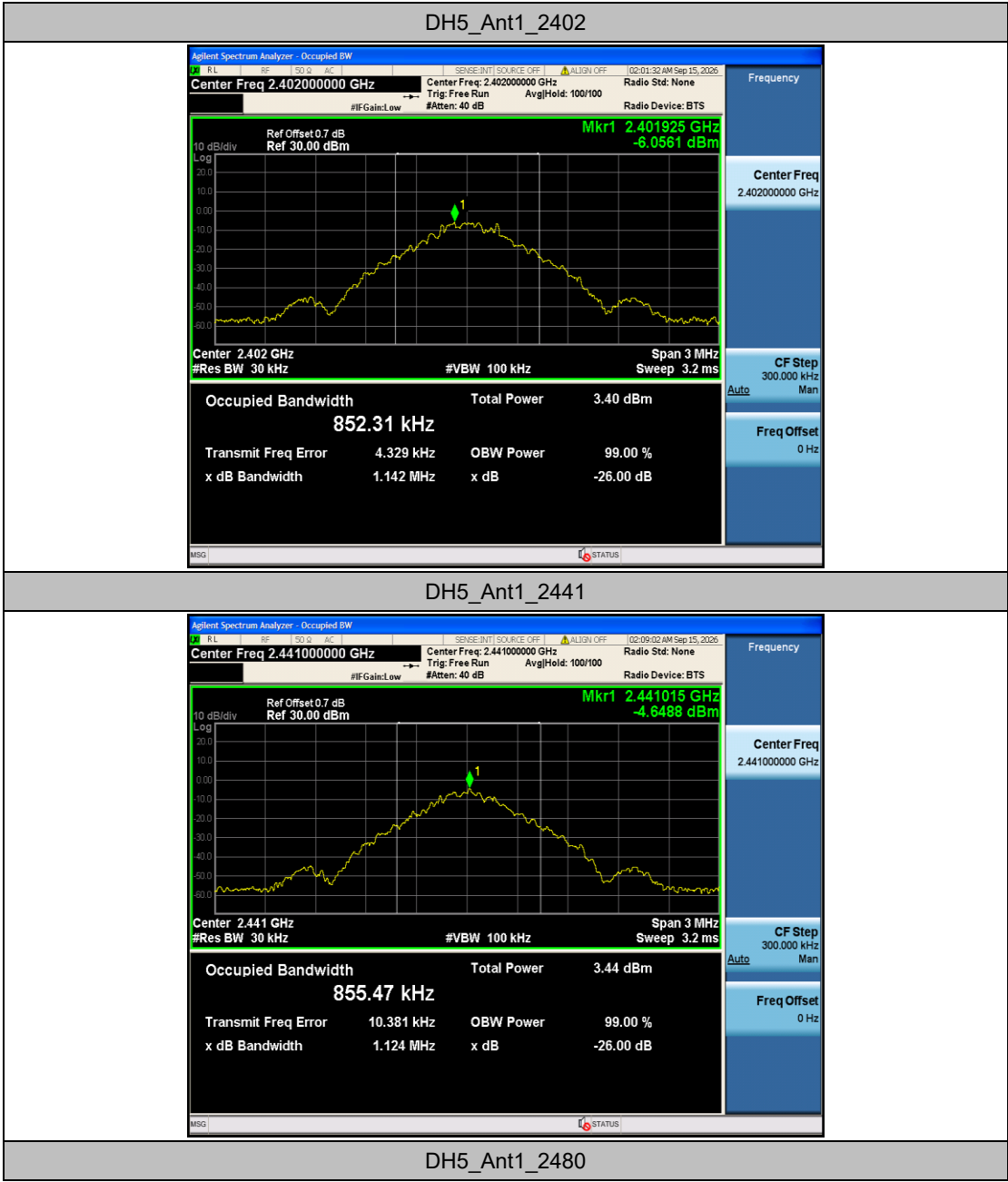


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85231	2401.5782	2402.4305	---	---
		2441	0.85547	2440.5826	2441.4381	---	---
		2480	0.85487	2479.5824	2480.4373	---	---
2DH5	Ant1	2402	1.1880	2401.4174	2402.6054	---	---
		2441	1.1973	2440.4112	2441.6085	---	---
		2480	1.1887	2479.4167	2480.6054	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

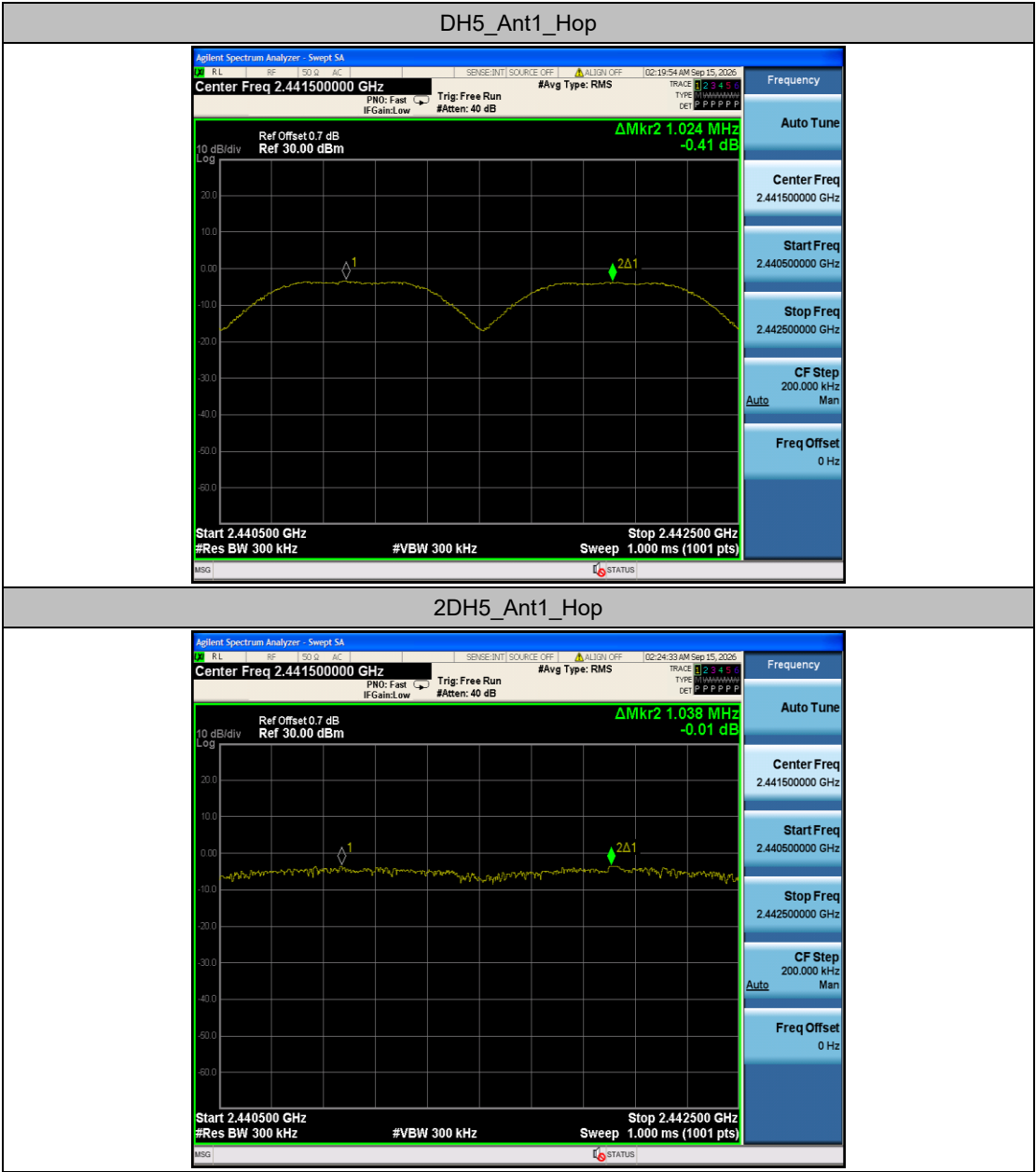
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.01	≤20.97	PASS
		2441	-3.18	≤20.97	PASS
		2480	-3.58	≤20.97	PASS
2DH5	Ant1	2402	-0.40	≤20.97	PASS
		2441	-0.56	≤20.97	PASS
		2480	-0.96	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.963	PASS
2DH5	Ant1	Hop	1.038	≥ 0.896	PASS

Test Graphs

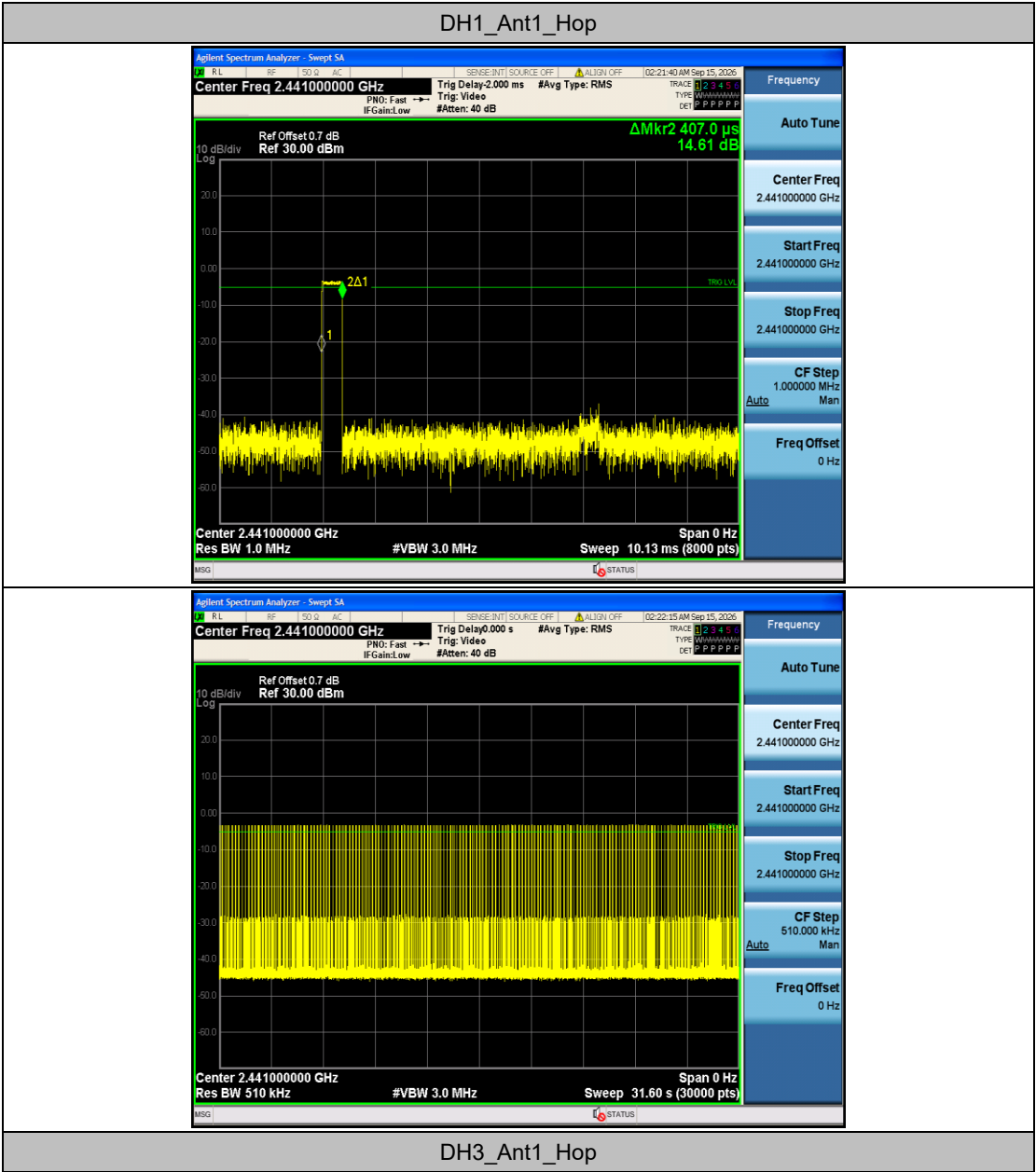


Appendix E: Time of occupancy

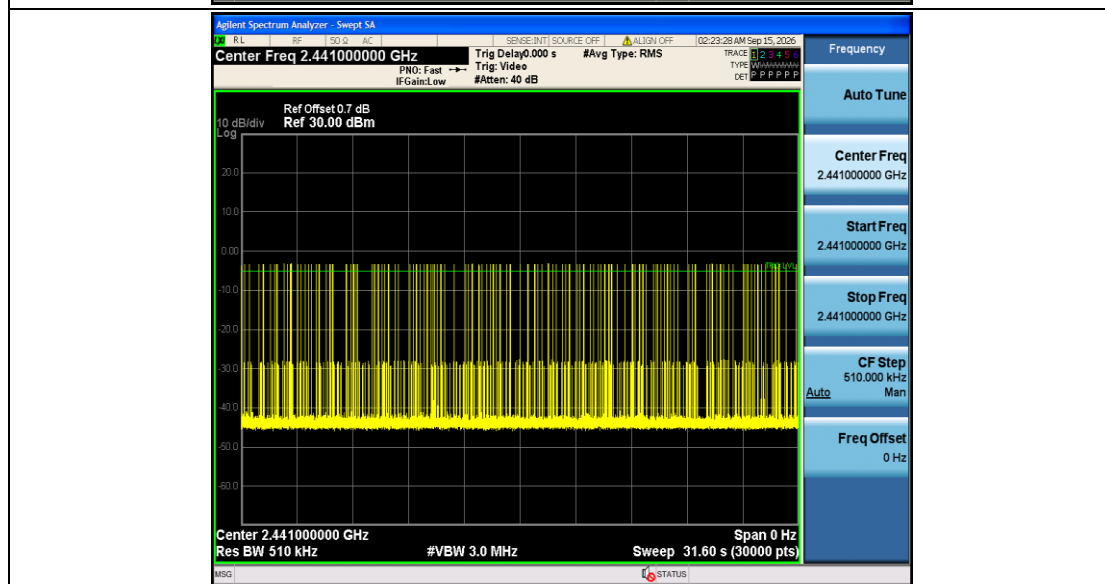
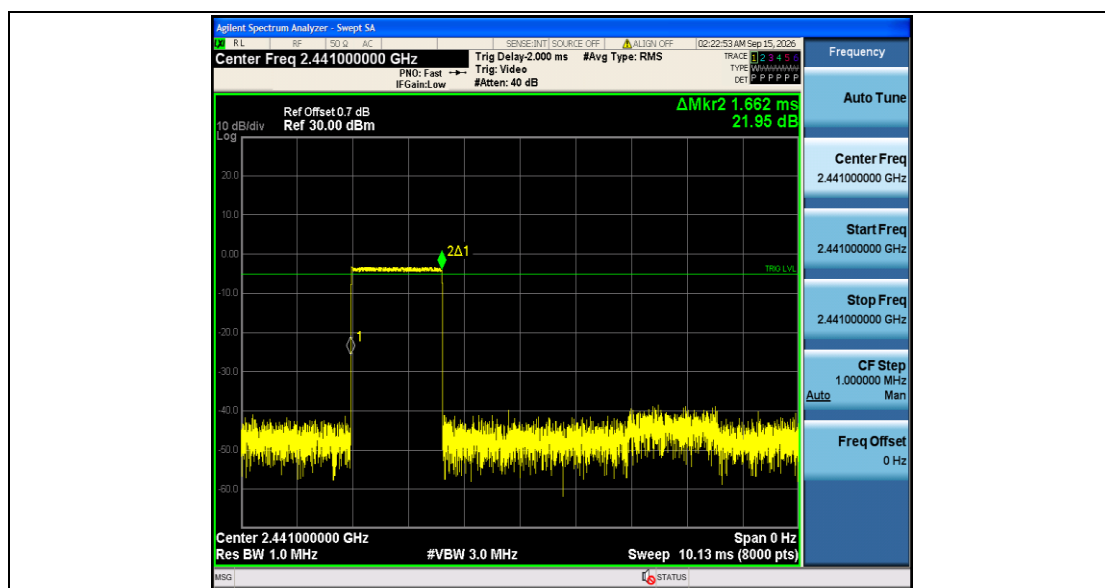
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	154	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.910	106	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	157	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.916	119	0.347	≤0.4	PASS

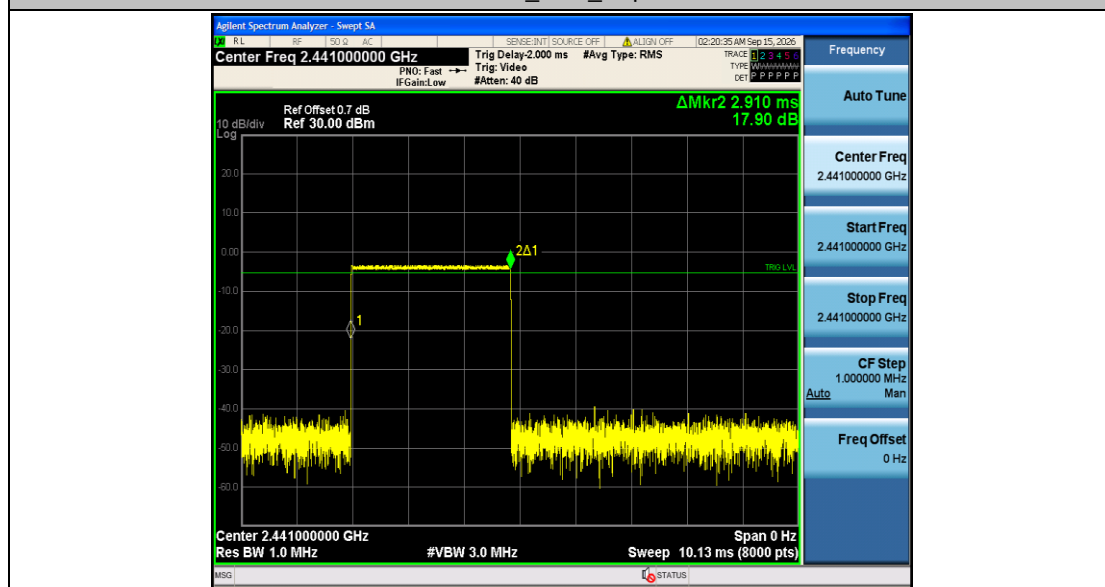
Test Graphs

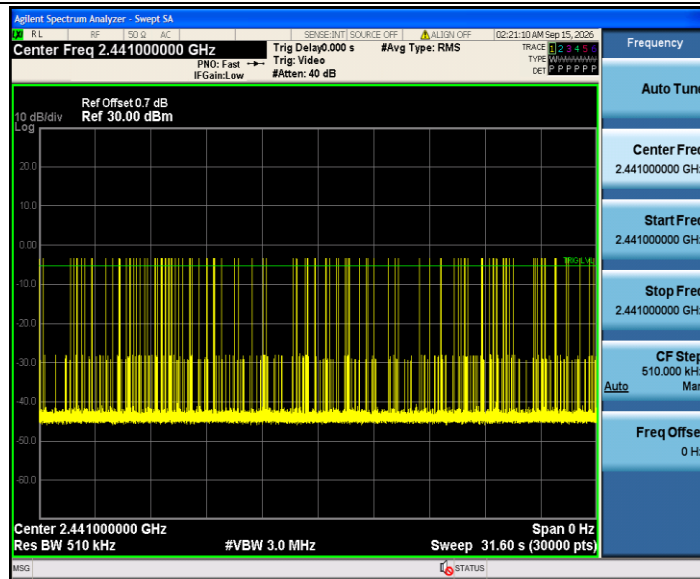


DH3_Ant1_Hop

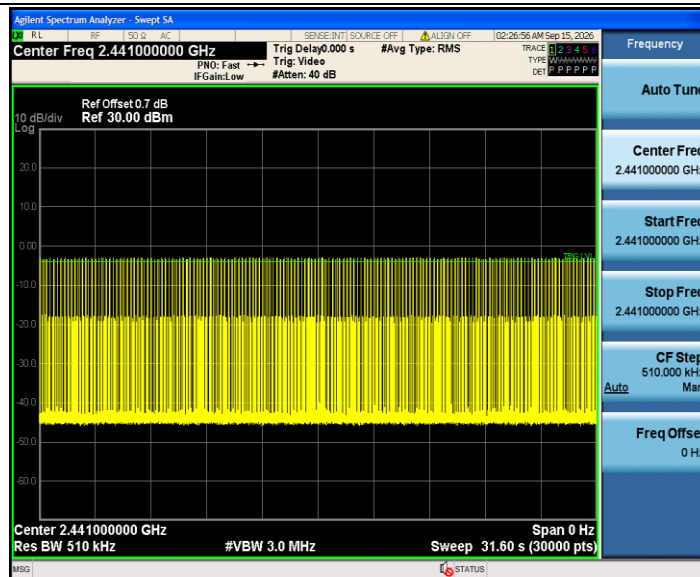
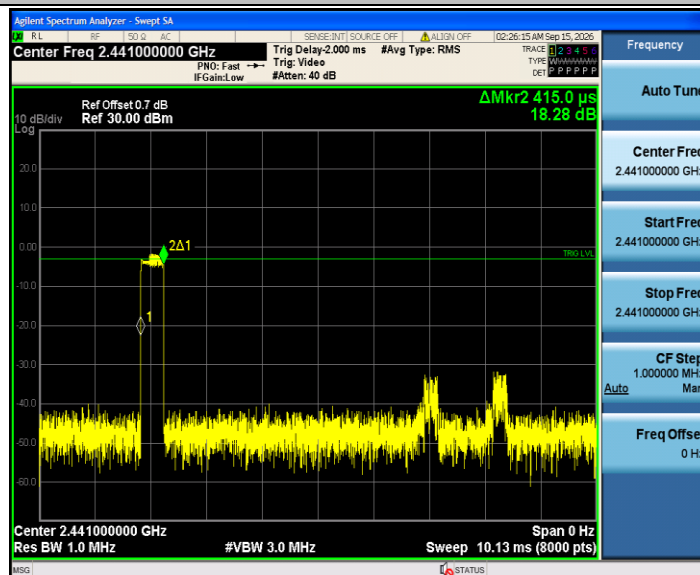


DH5_Ant1_Hop

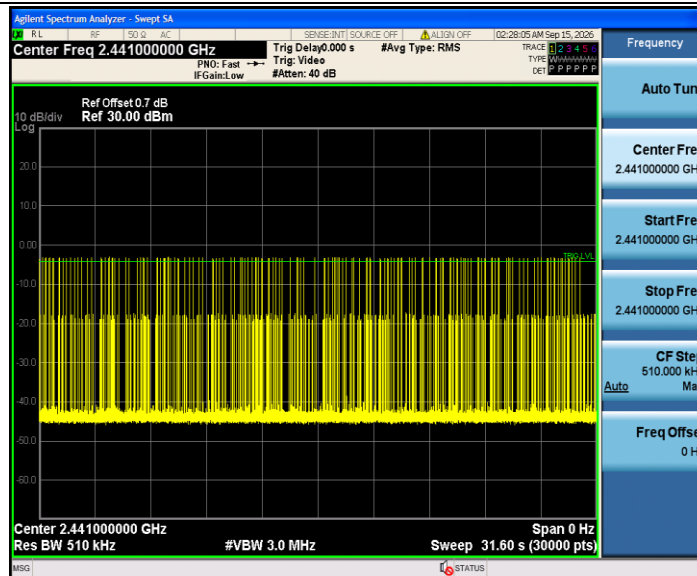
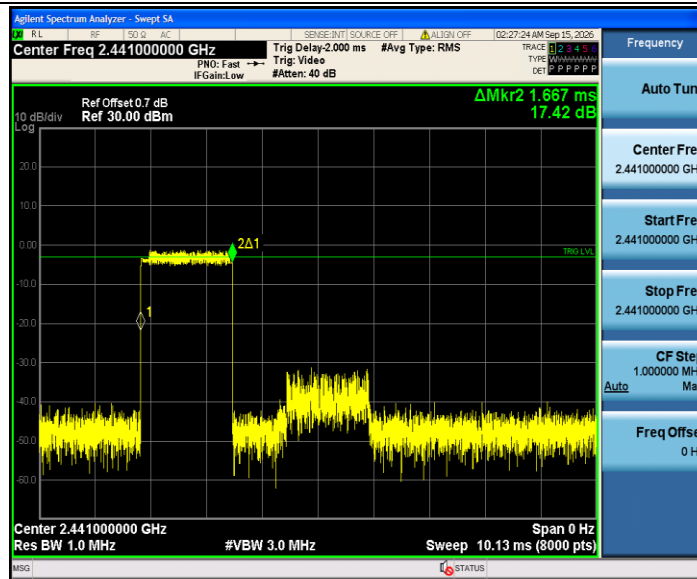




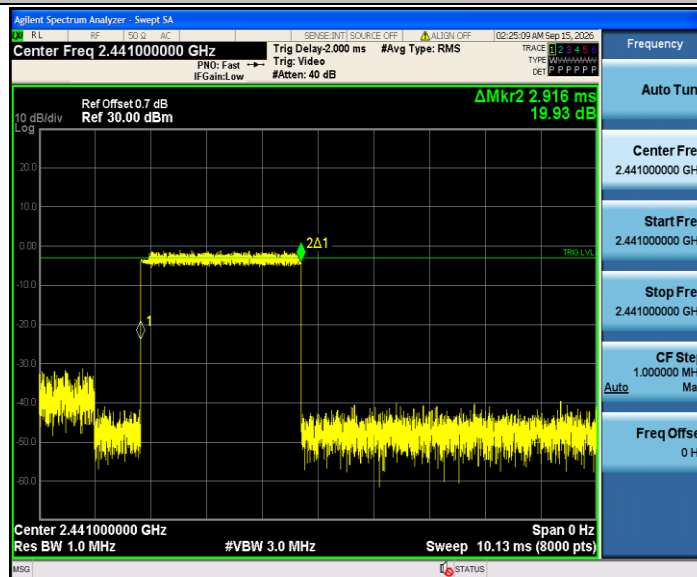
2DH1_Ant1_Hop

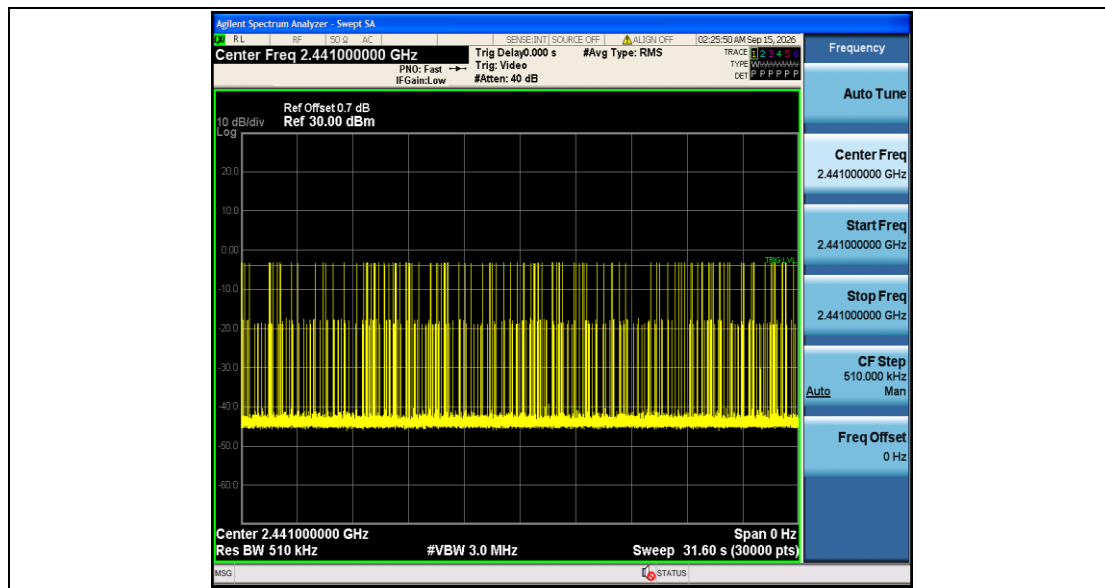


2DH3_Ant1_Hop



2DH5_Ant1_Hop



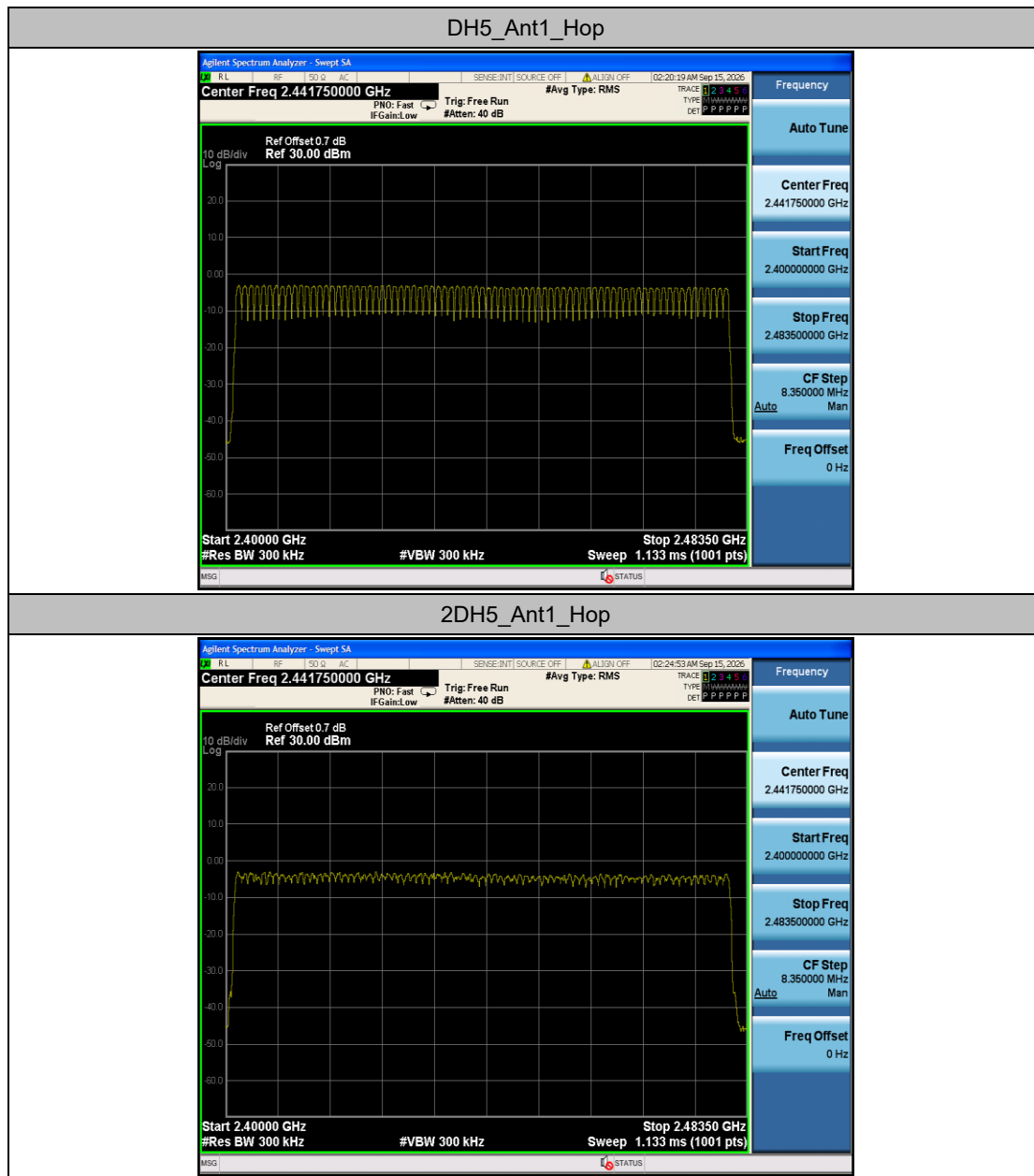


Appendix F: Number of hopping channels

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

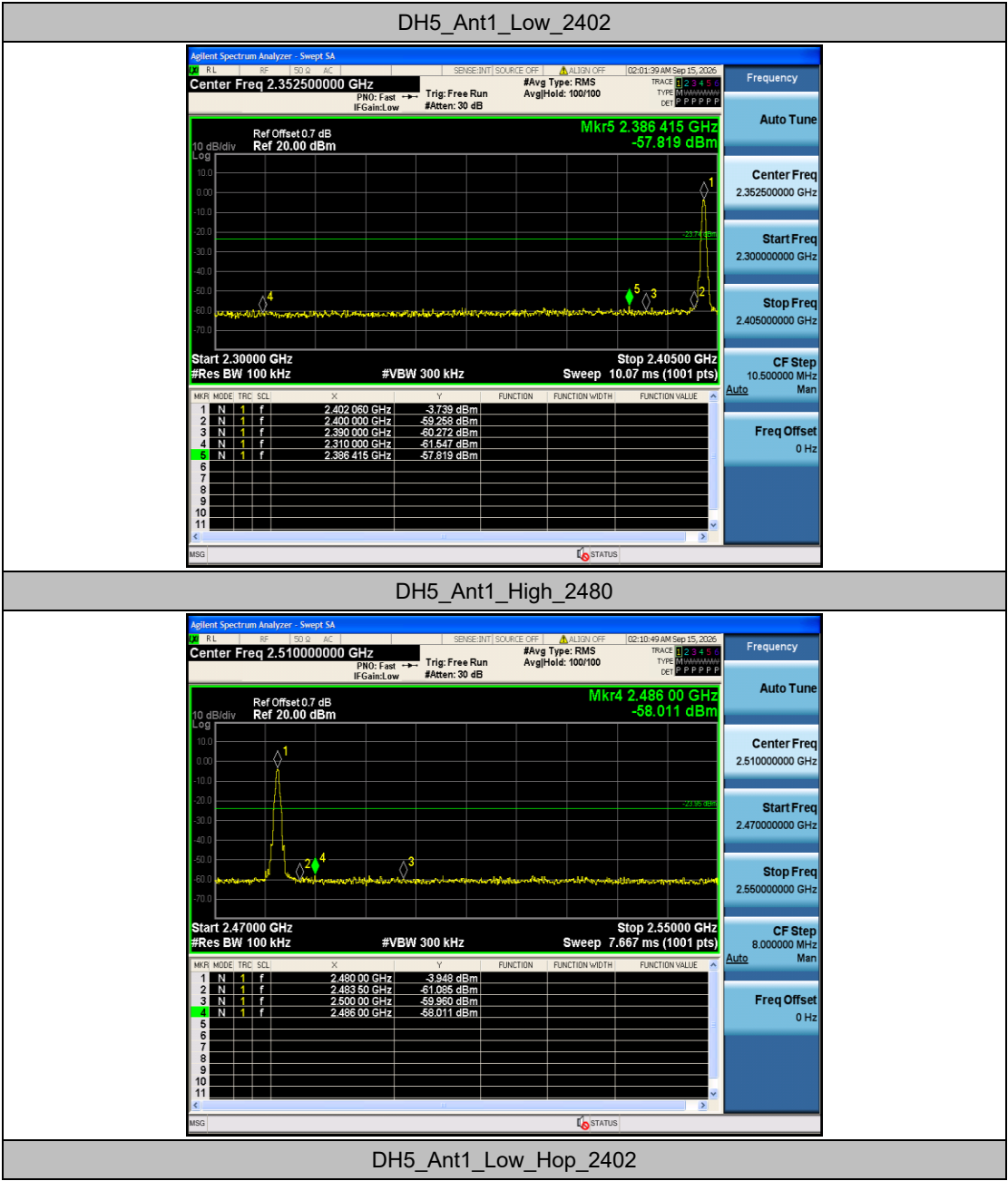


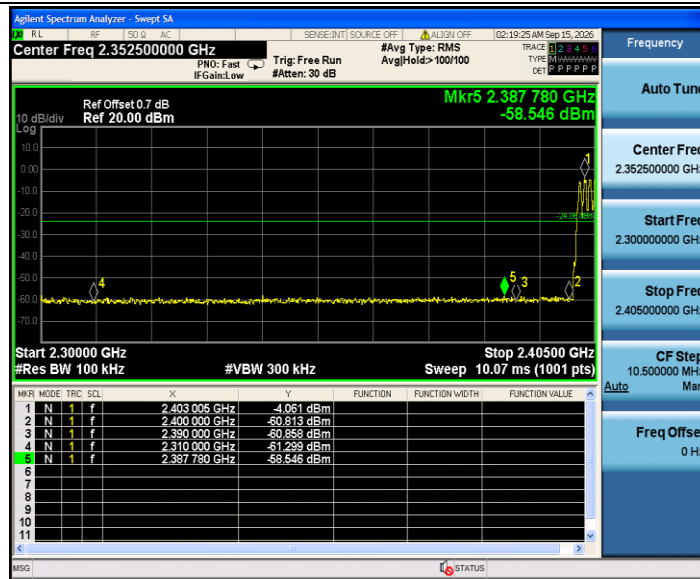
Appendix G: Band edge measurements

Test Result

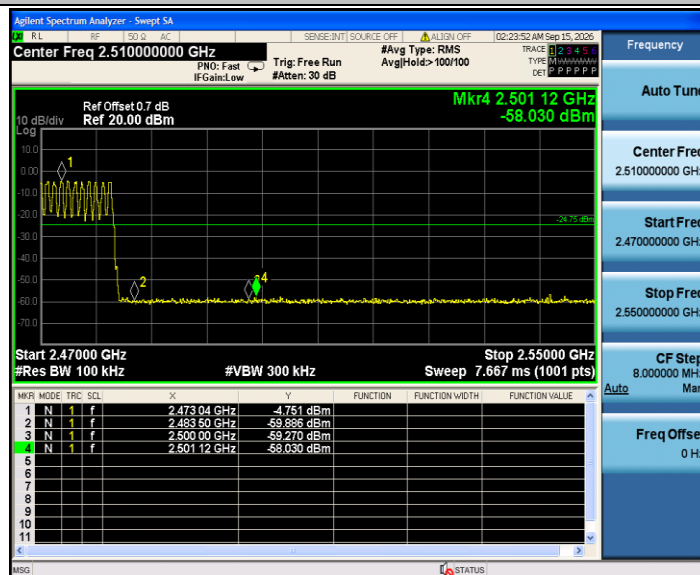
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.74	-57.82	≤-23.74	PASS
		High	2480	-3.95	-58.01	≤-23.95	PASS
		Low	Hop_2402	-4.06	-58.55	≤-24.06	PASS
		High	Hop_2480	-4.75	-58.03	≤-24.75	PASS
2DH5	Ant1	Low	2402	-3.93	-57.04	≤-23.93	PASS
		High	2480	-3.67	-57.72	≤-23.67	PASS
		Low	Hop_2402	-4.73	-58.5	≤-24.73	PASS
		High	Hop_2480	-5.03	-57.18	≤-25.03	PASS

Test Graphs

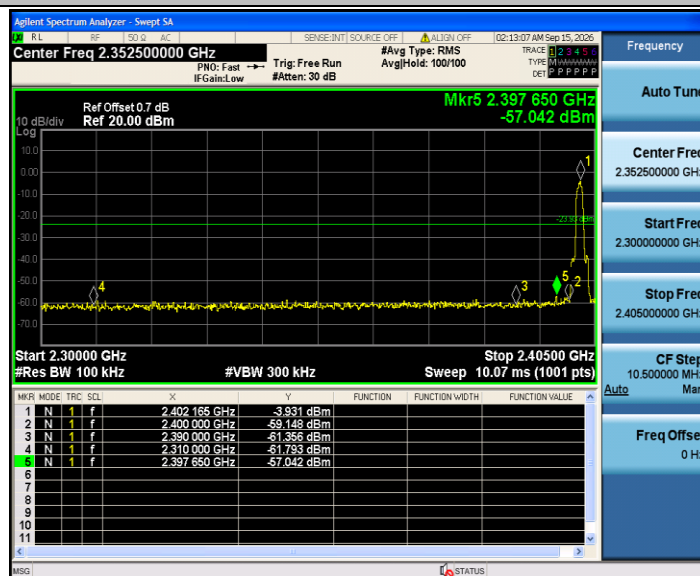




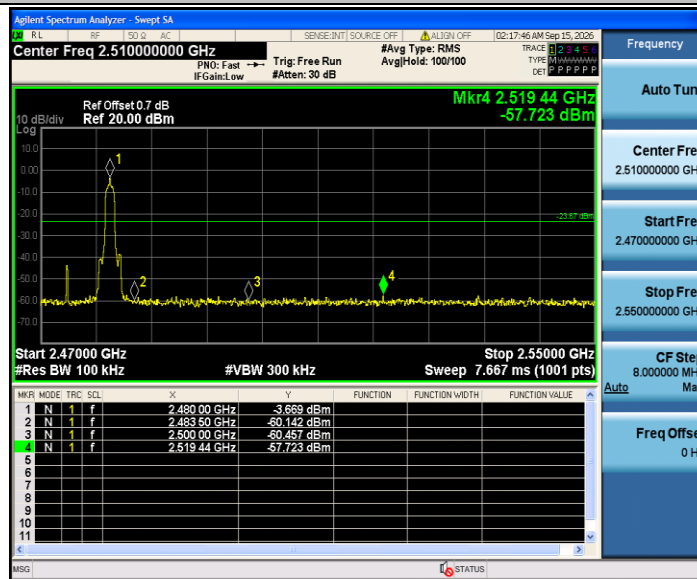
DH5_Ant1_High_Hop_2480



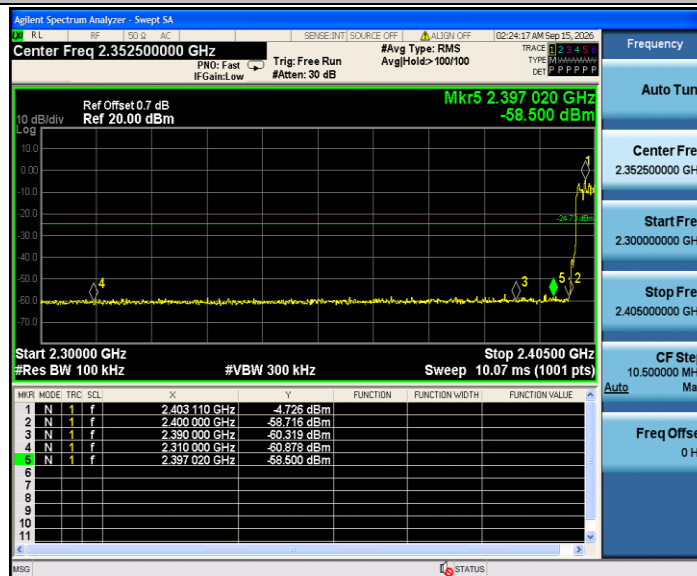
2DH5_Ant1_Low_2402



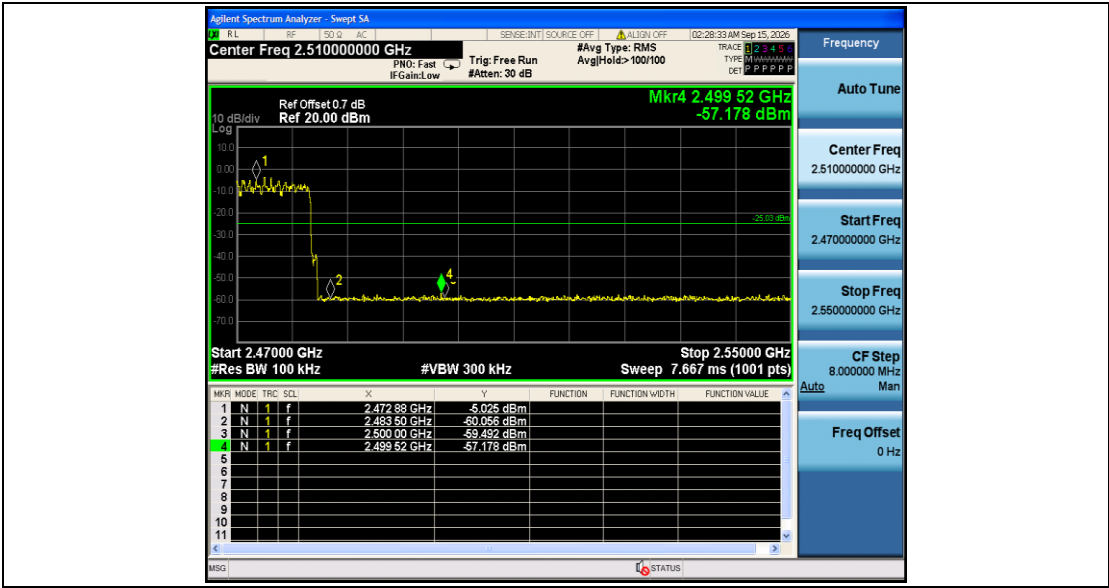
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

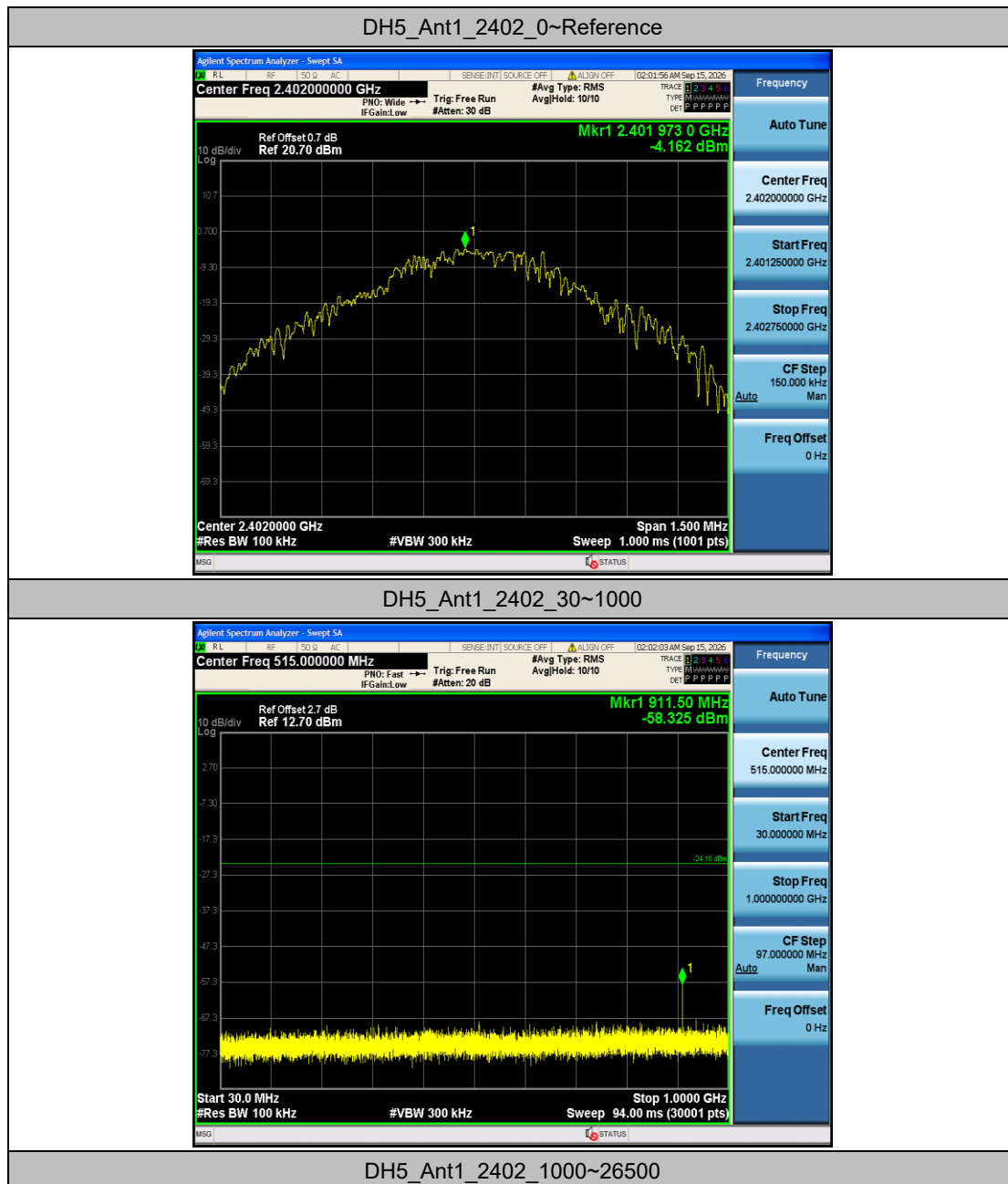


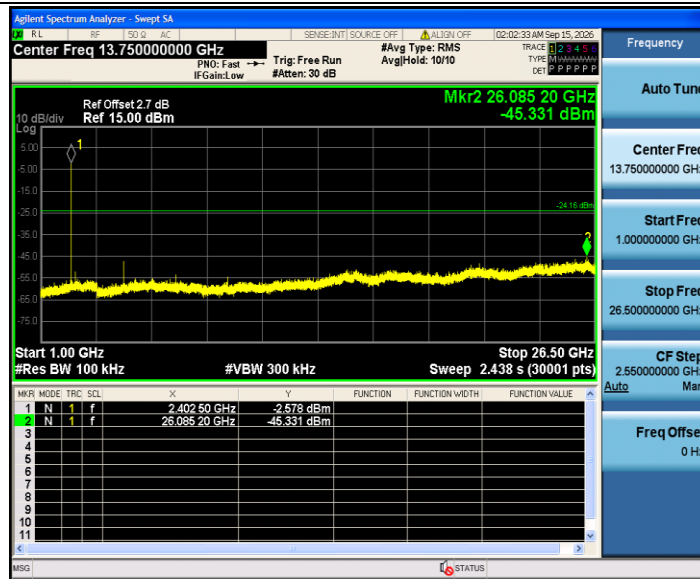
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-58.33	≤-24.16	PASS
			1000~26500	-4.16	-45.33	≤-24.16	PASS
		2441	Reference	-4.05	-4.05	---	PASS
			30~1000	-4.05	-67.74	≤-24.05	PASS
			1000~26500	-4.05	-47.06	≤-24.05	PASS
		2480	Reference	-4.72	-4.72	---	PASS
			30~1000	-4.72	-68.29	≤-24.72	PASS
			1000~26500	-4.72	-46.65	≤-24.72	PASS
2DH5	Ant1	2402	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-68.04	≤-24.43	PASS
			1000~26500	-4.43	-46.8	≤-24.43	PASS
		2441	Reference	-6.50	-6.50	---	PASS
			30~1000	-6.50	-67.84	≤-26.5	PASS
			1000~26500	-6.50	-47.21	≤-26.5	PASS
		2480	Reference	-6.80	-6.80	---	PASS
			30~1000	-6.80	-68.5	≤-26.8	PASS
			1000~26500	-6.80	-45.74	≤-26.8	PASS

Test Graphs

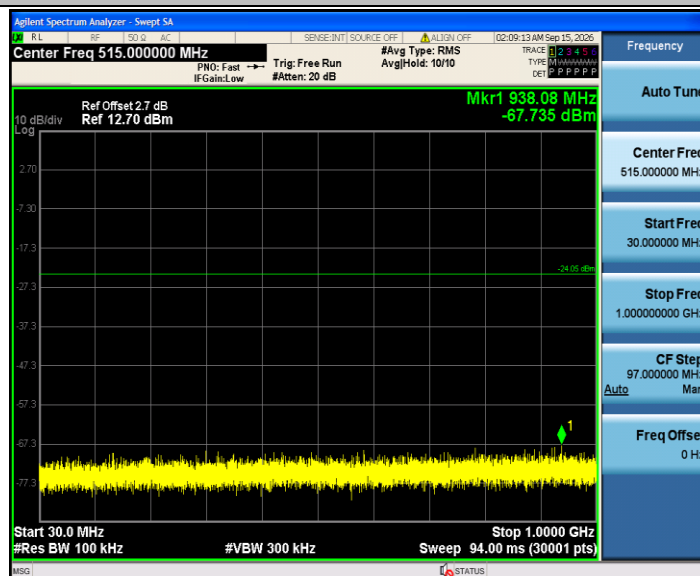




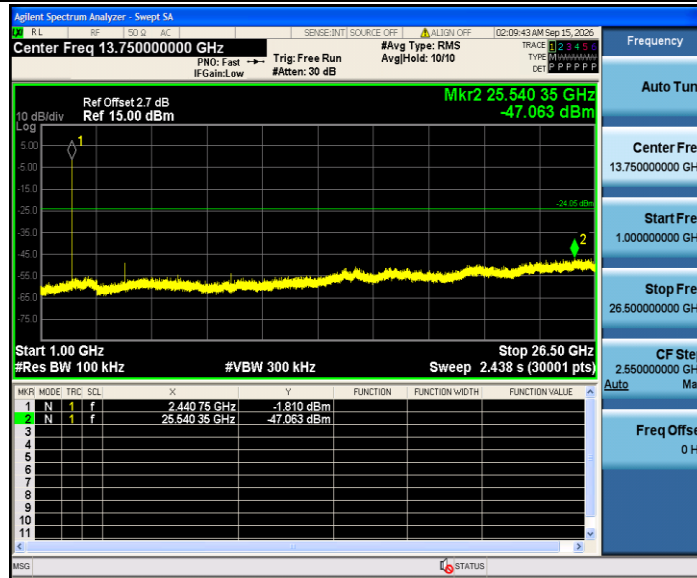
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



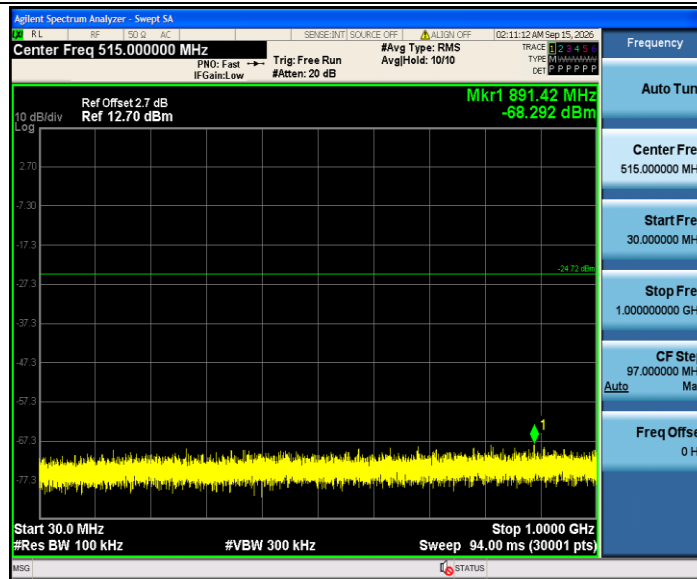
DH5_Ant1_2441_1000~26500



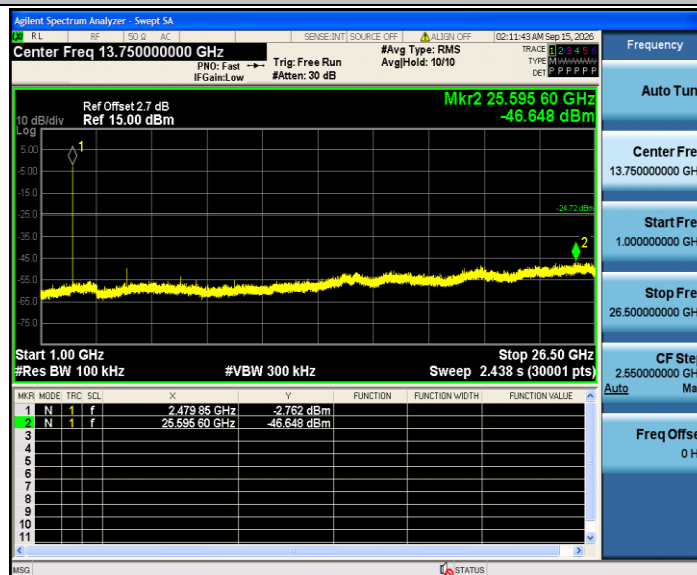
DH5_Ant1_2480_0~Reference



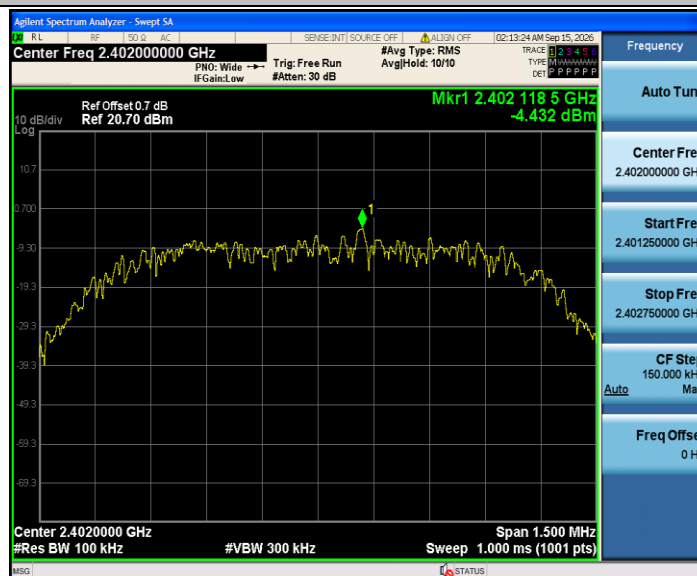
DH5_Ant1_2480_30~1000



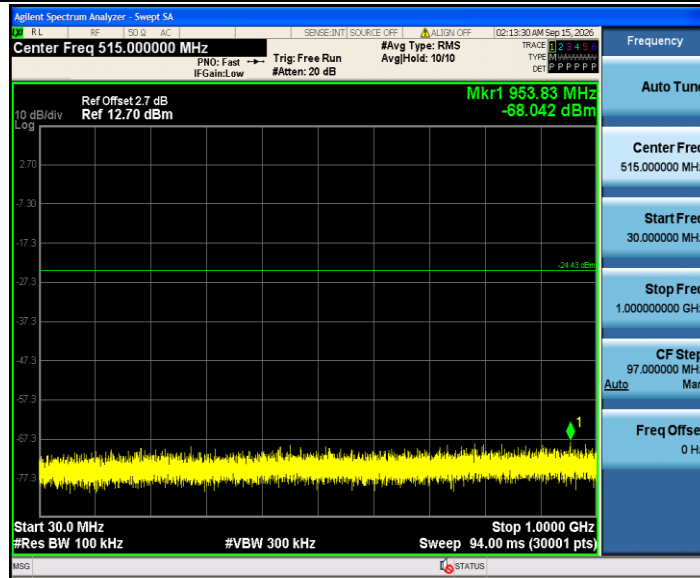
DH5_Ant1_2480_1000~26500



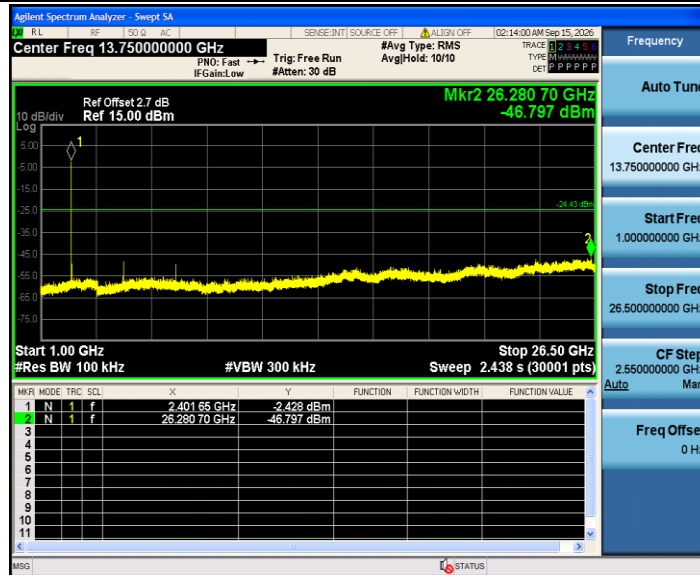
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



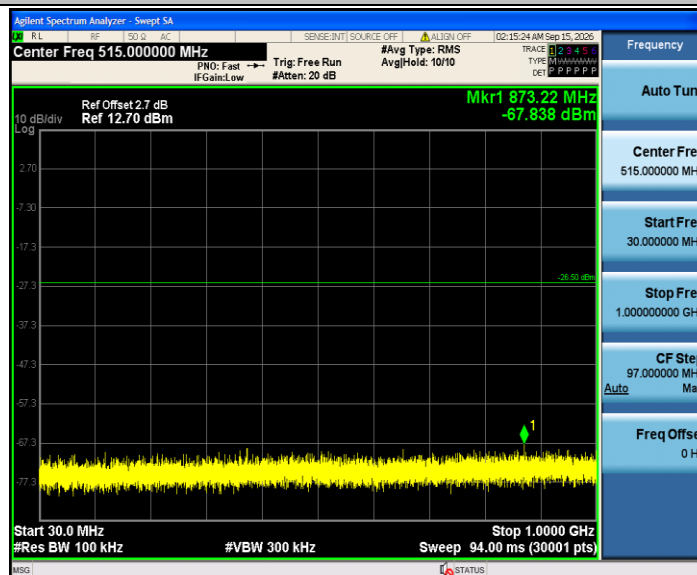
2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

