

FCC Appendix RF Test Data for BT

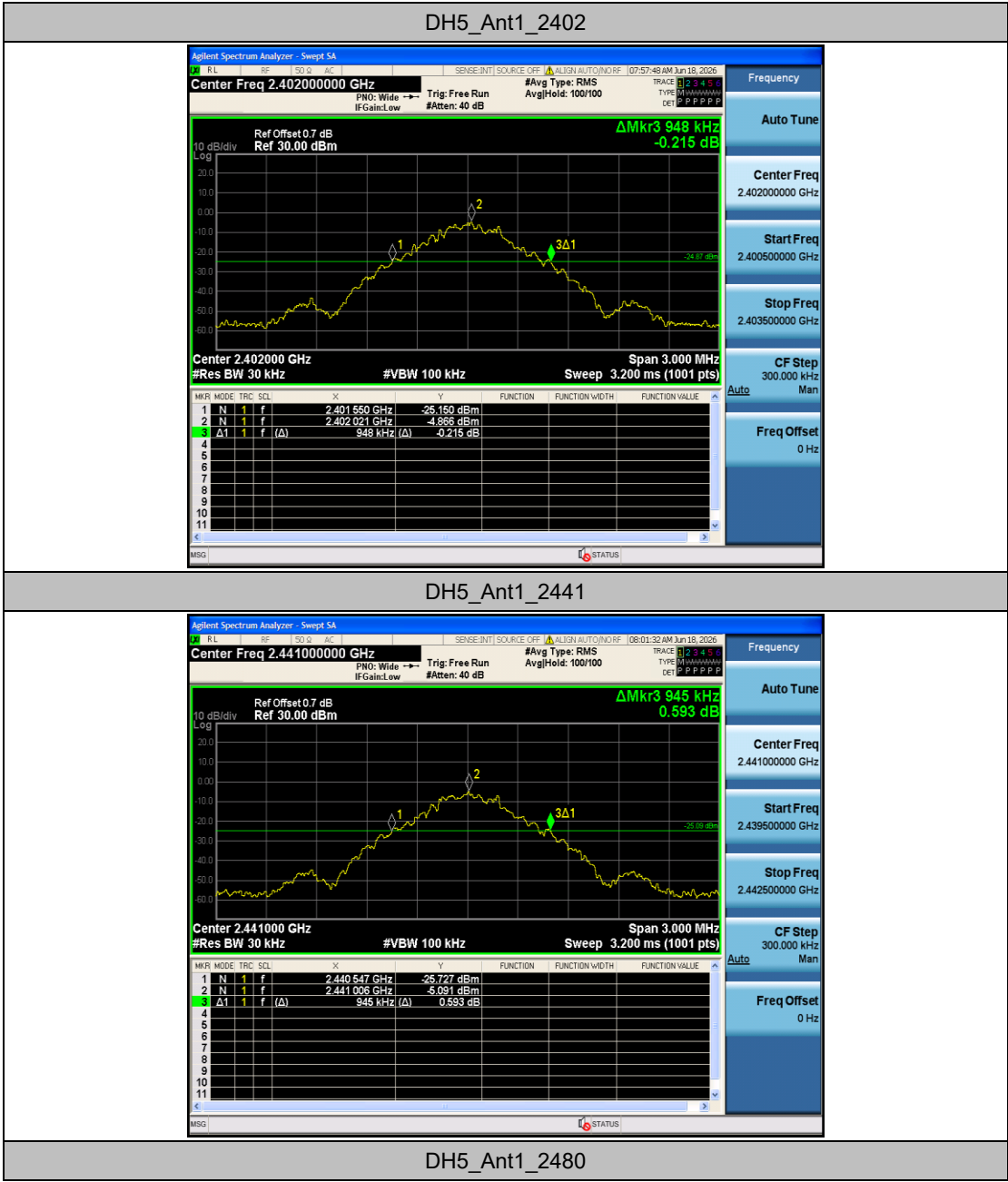
FCC ID : 2BFGG-MIX
Company : Algam
EUT : AUDIO MIXER
Model Number : MIX14USB
Report No. : CTA26061201301
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.945	2440.547	2441.492	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.332	2401.340	2402.672	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.287	2479.376	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

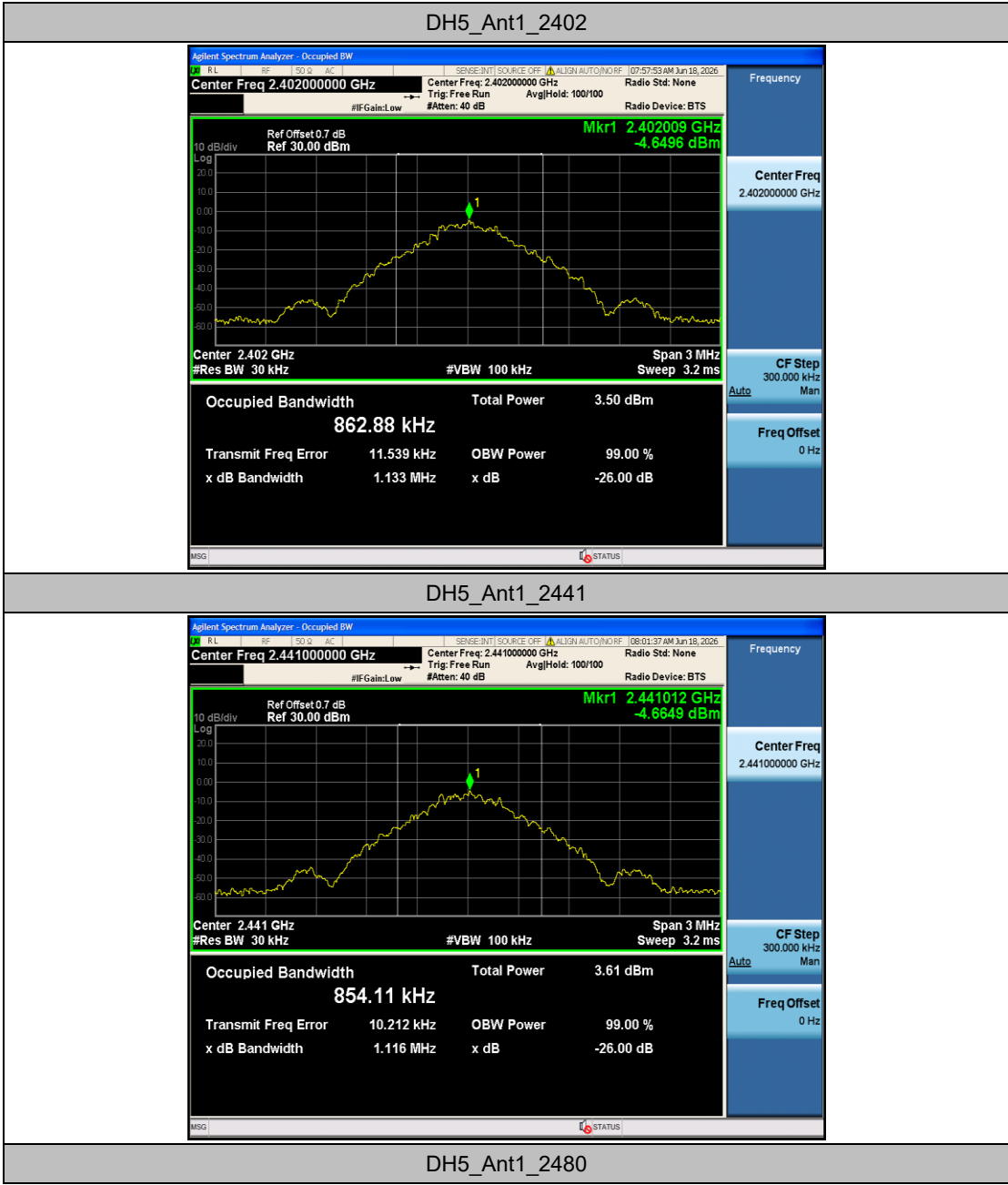


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86288	2401.5801	2402.4430	---	---
		2441	0.85411	2440.5832	2441.4373	---	---
		2480	0.87022	2479.5764	2480.4466	---	---
2DH5	Ant1	2402	1.1892	2401.4159	2402.6051	---	---
		2441	1.1967	2440.4103	2441.6070	---	---
		2480	1.1861	2479.4148	2480.6009	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

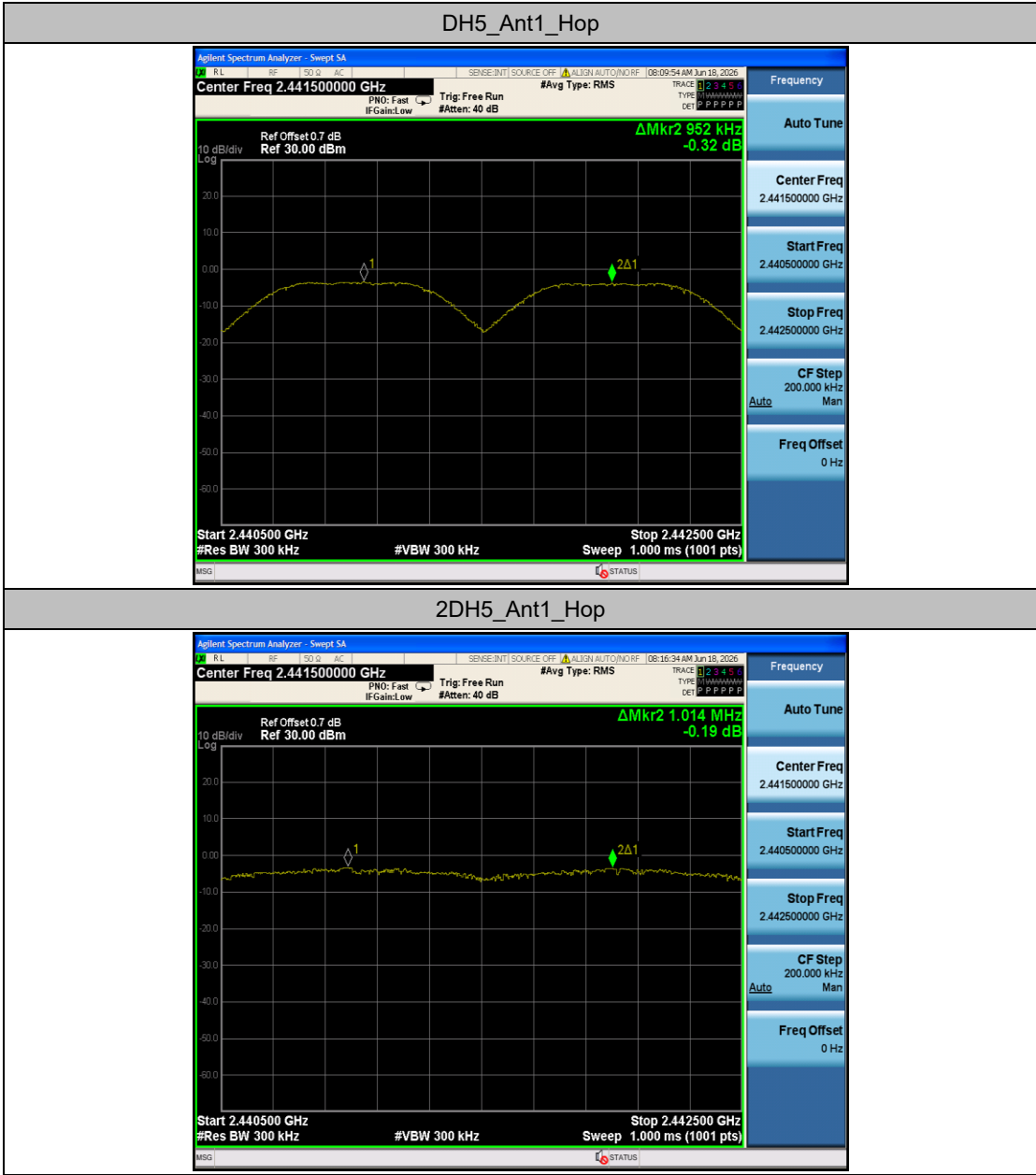
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.99	≤20.97	PASS
		2441	-3.13	≤20.97	PASS
		2480	-3.41	≤20.97	PASS
2DH5	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.57	≤20.97	PASS
		2480	-0.79	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.952	≥ 0.948	PASS
2DH5	Ant1	Hop	1.014	≥ 0.888	PASS

Test Graphs

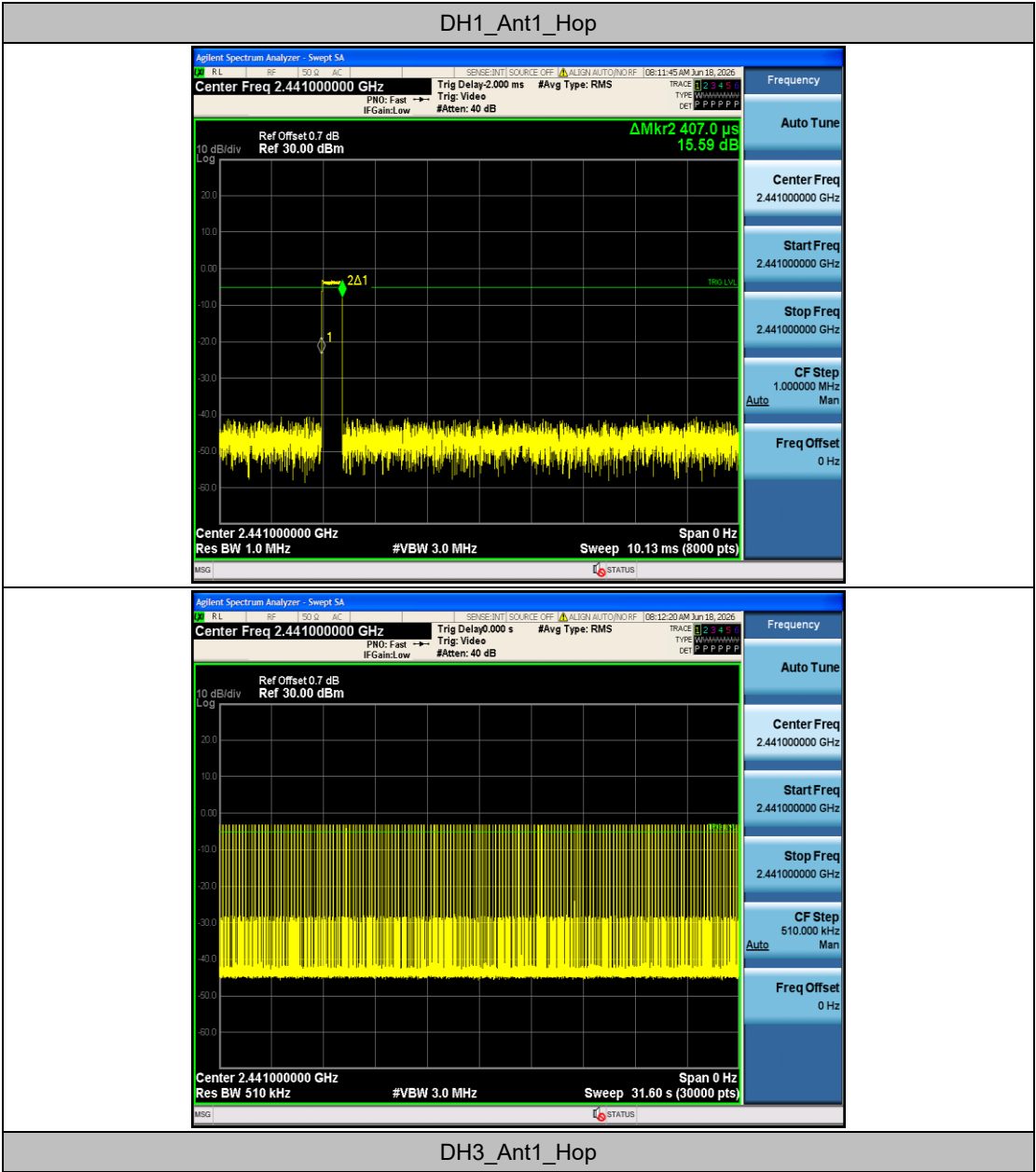


Appendix E: Time of occupancy

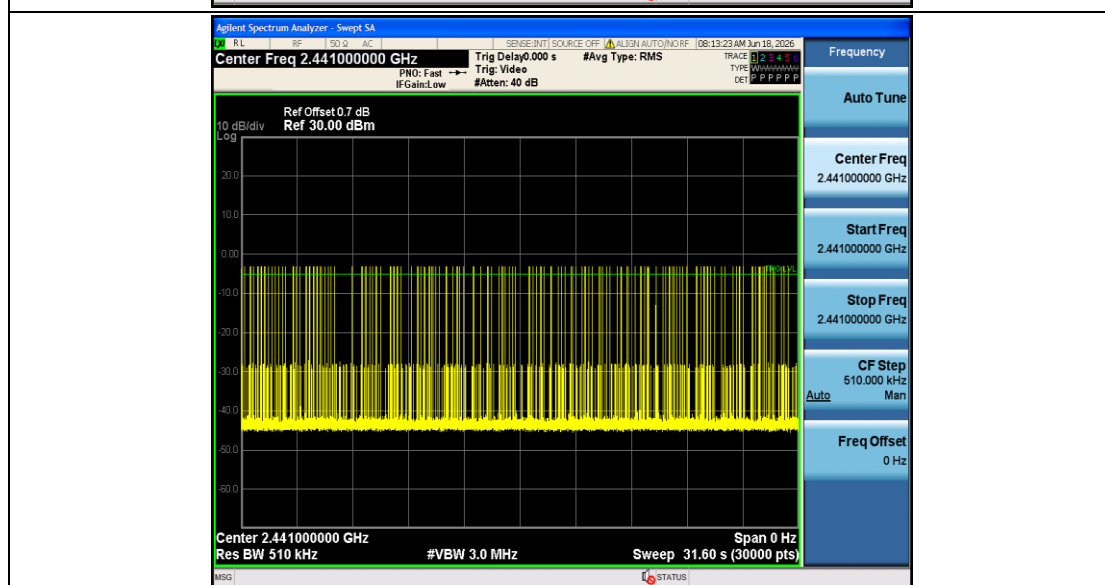
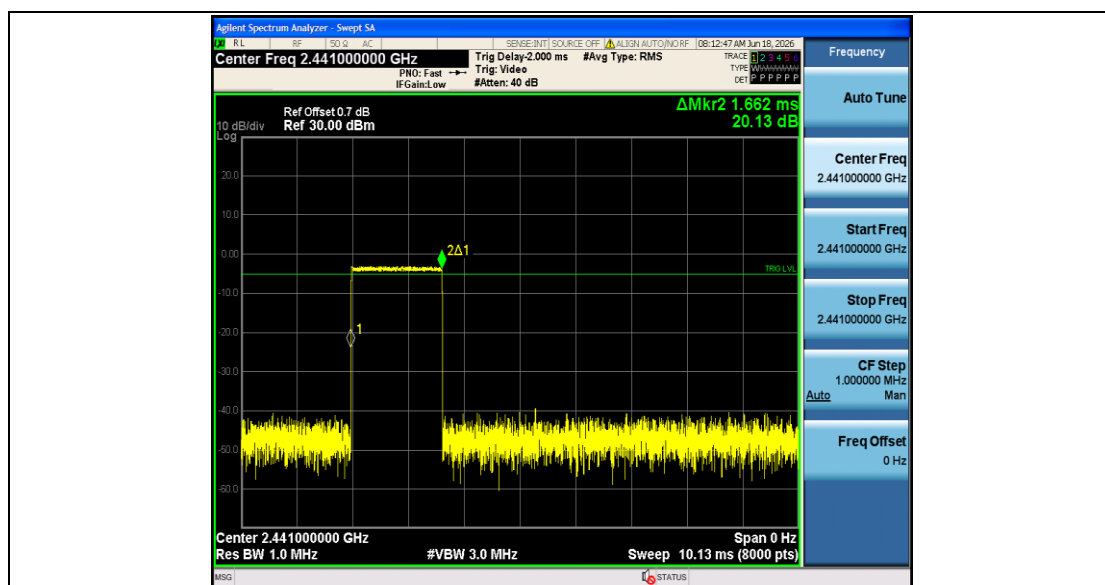
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	159	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.911	105	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.414	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	165	0.275	≤0.4	PASS
2DH5	Ant1	Hop	2.916	110	0.321	≤0.4	PASS

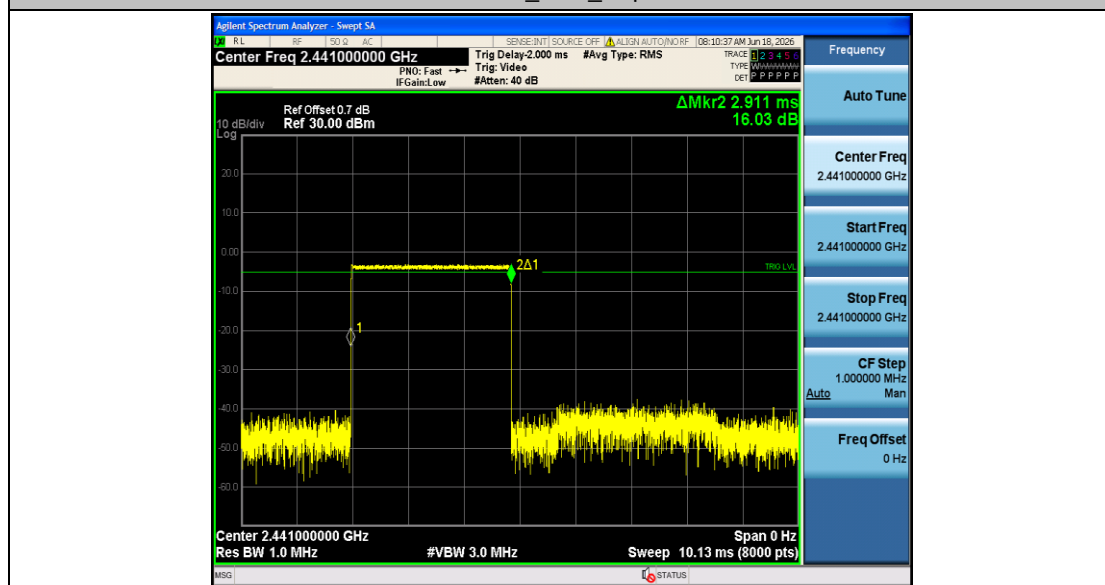
Test Graphs

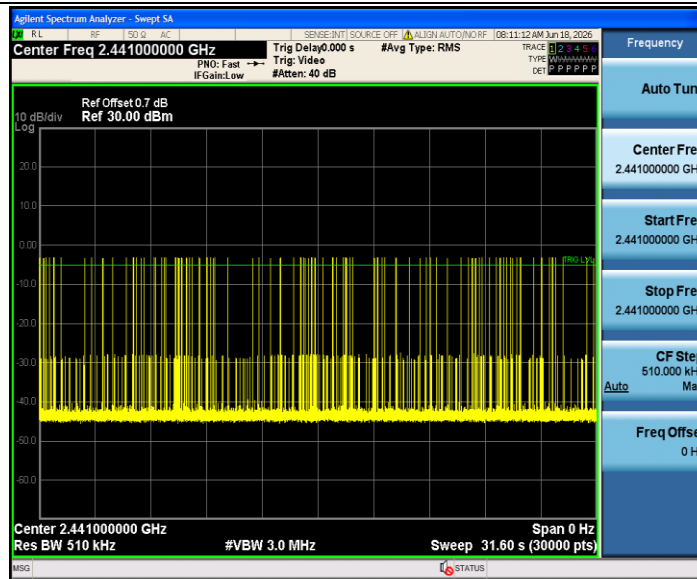


DH3_Ant1_Hop

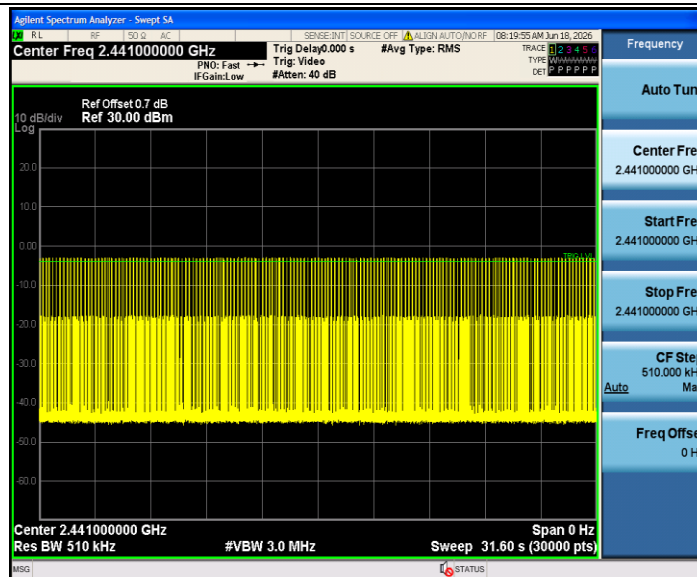
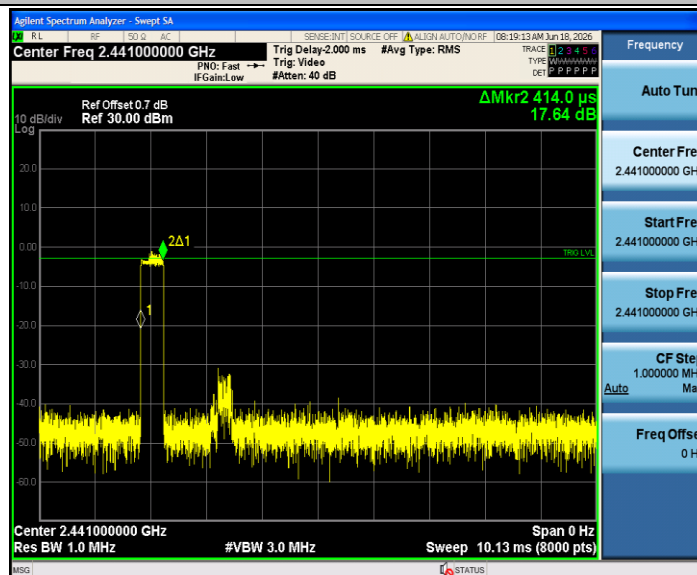


DH5_Ant1_Hop

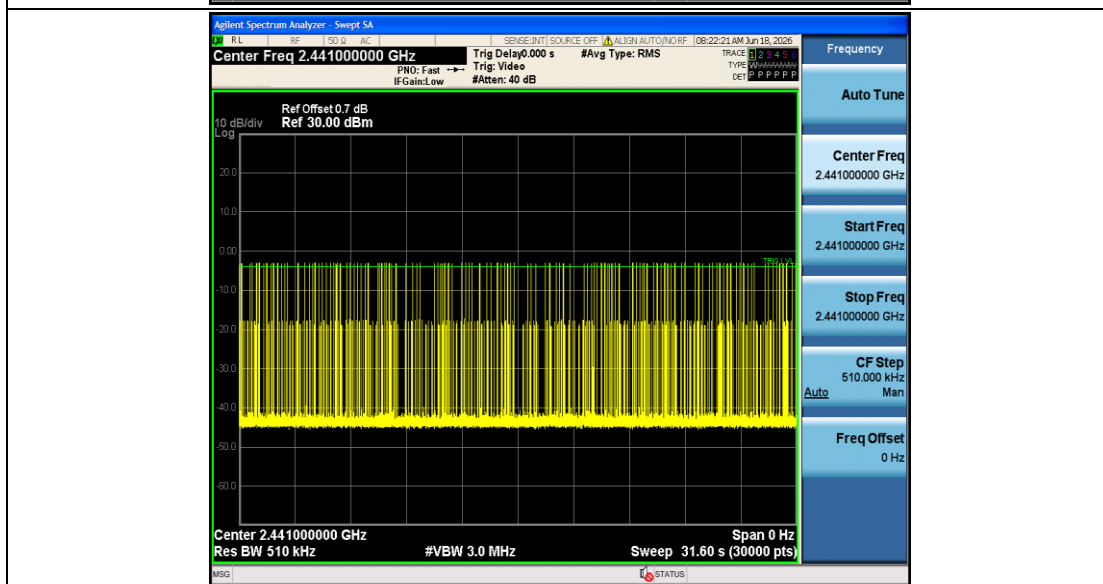
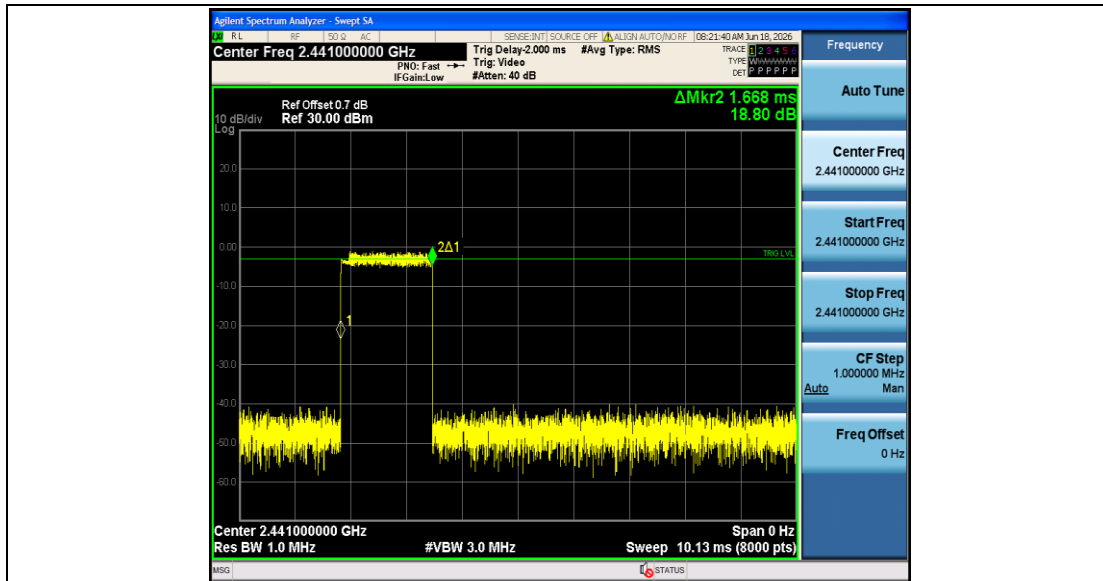




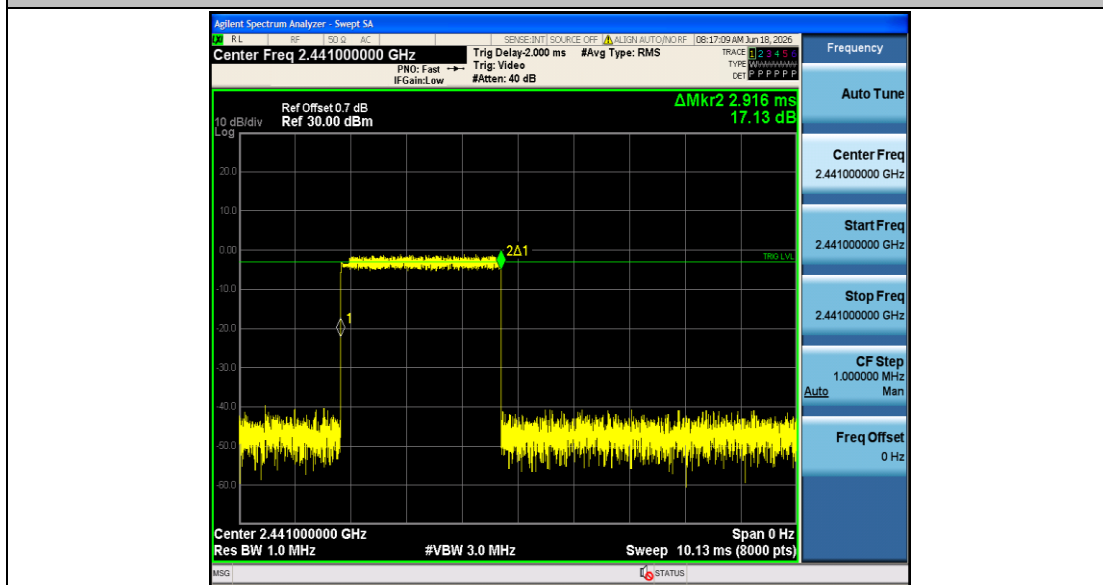
2DH1_Ant1_Hop

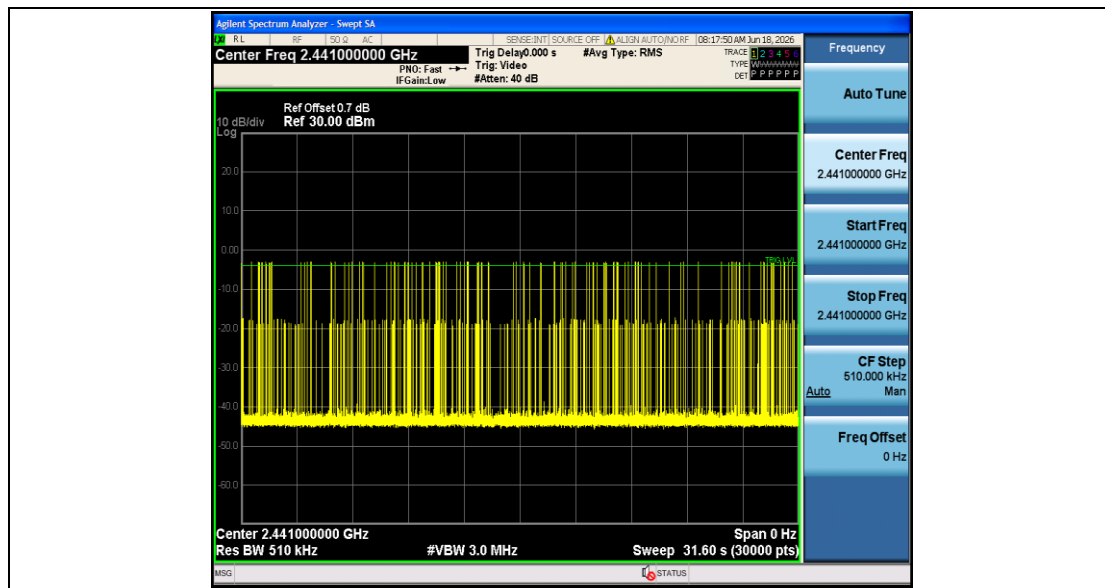


2DH3_Ant1_Hop



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

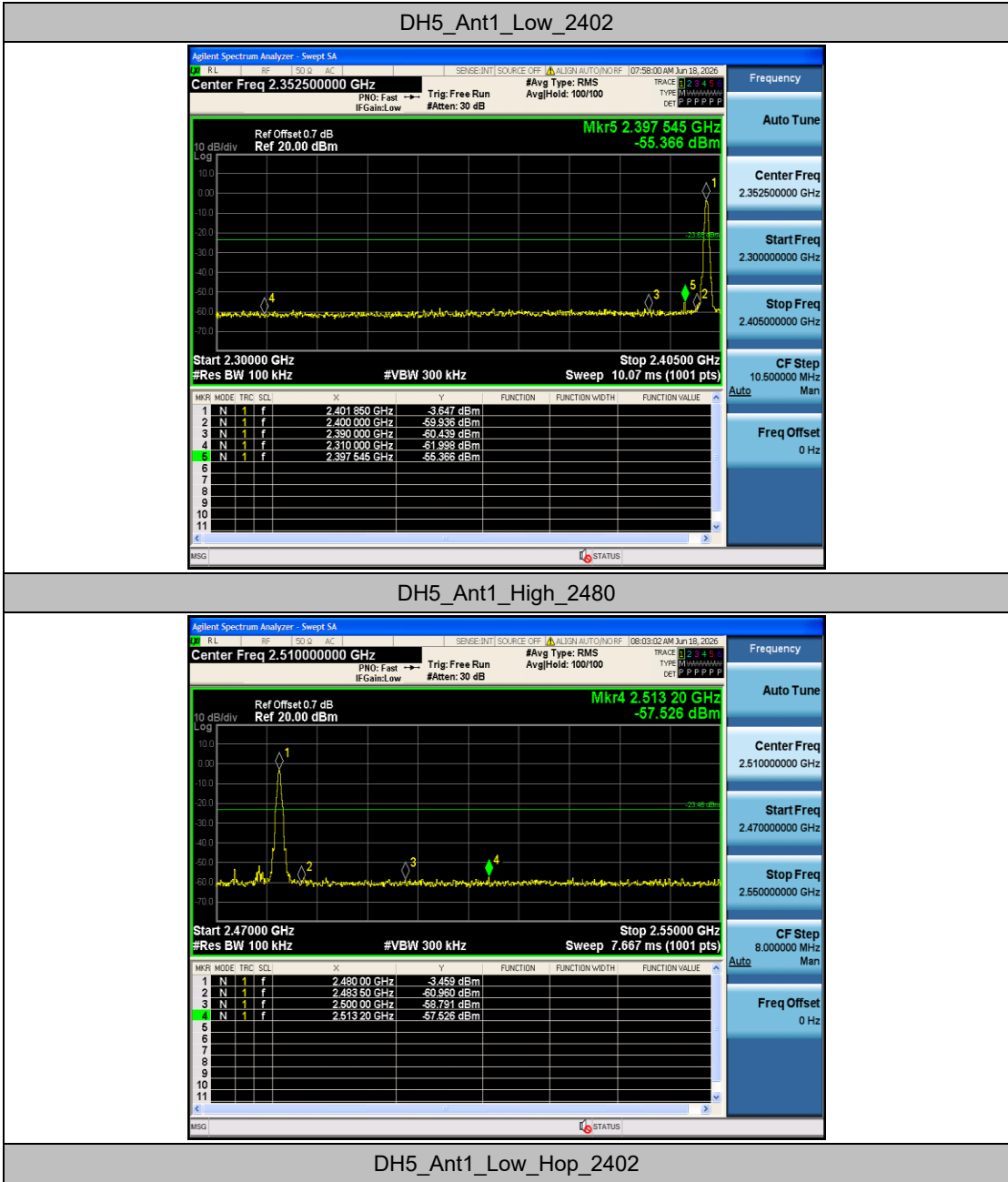


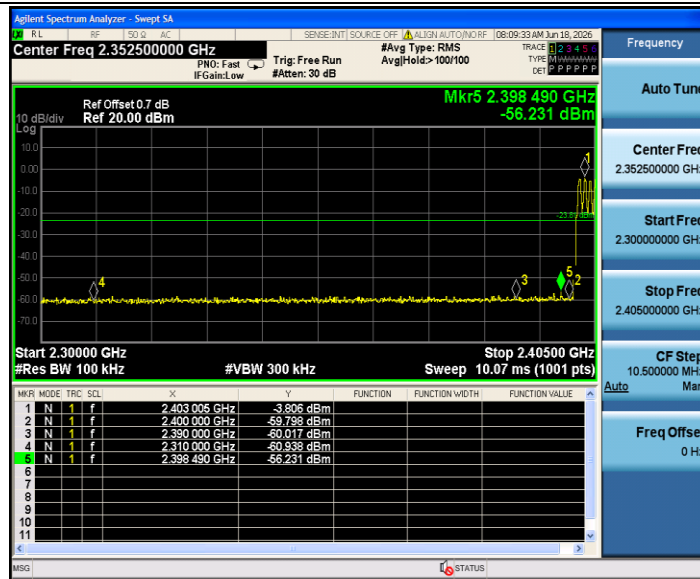
Appendix G: Band edge measurements

Test Result

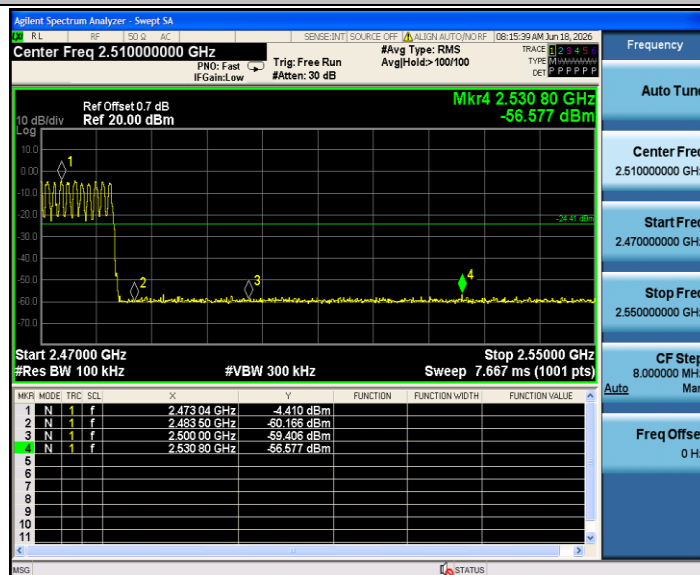
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.65	-55.37	≤-23.65	PASS
		High	2480	-3.46	-57.53	≤-23.46	PASS
		Low	Hop_2402	-3.81	-56.23	≤-23.81	PASS
		High	Hop_2480	-4.41	-56.58	≤-24.41	PASS
2DH5	Ant1	Low	2402	-4.86	-57.09	≤-24.86	PASS
		High	2480	-4.87	-57.51	≤-24.87	PASS
		Low	Hop_2402	-6.19	-56.67	≤-26.19	PASS
		High	Hop_2480	-6.58	-57.65	≤-26.58	PASS

Test Graphs

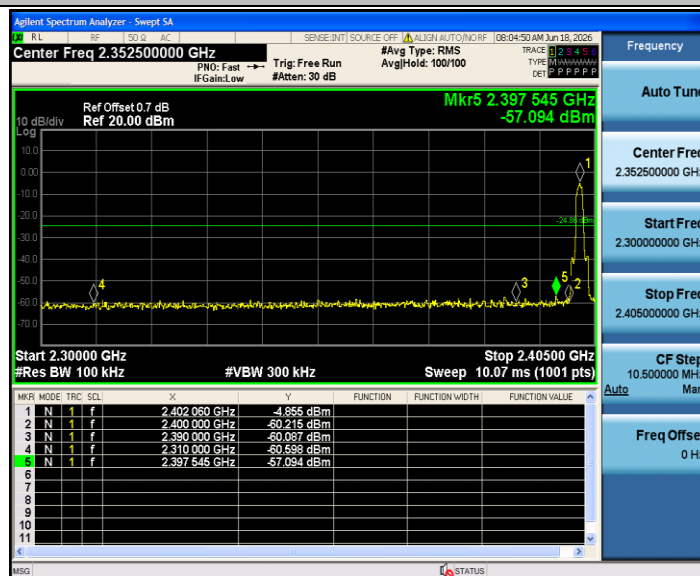




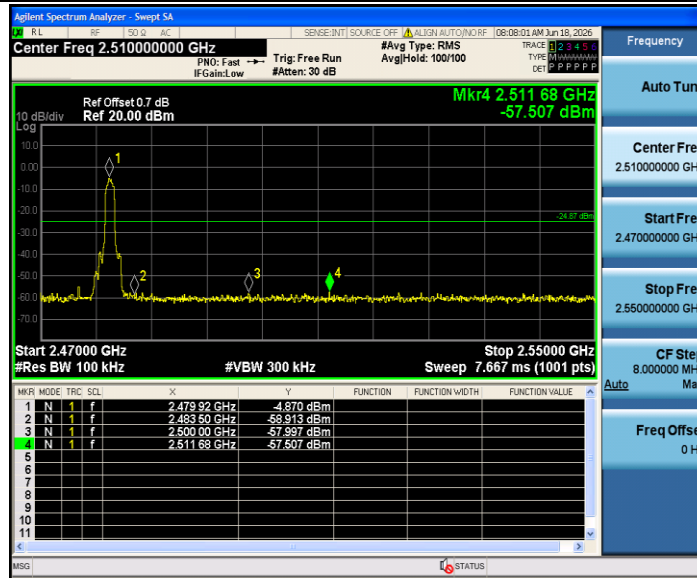
DH5_Ant1_High_Hop_2480



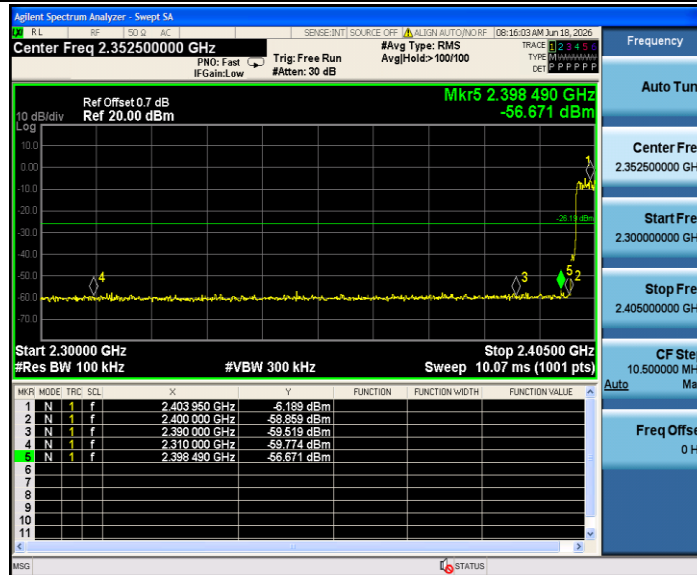
2DH5_Ant1_Low_2402



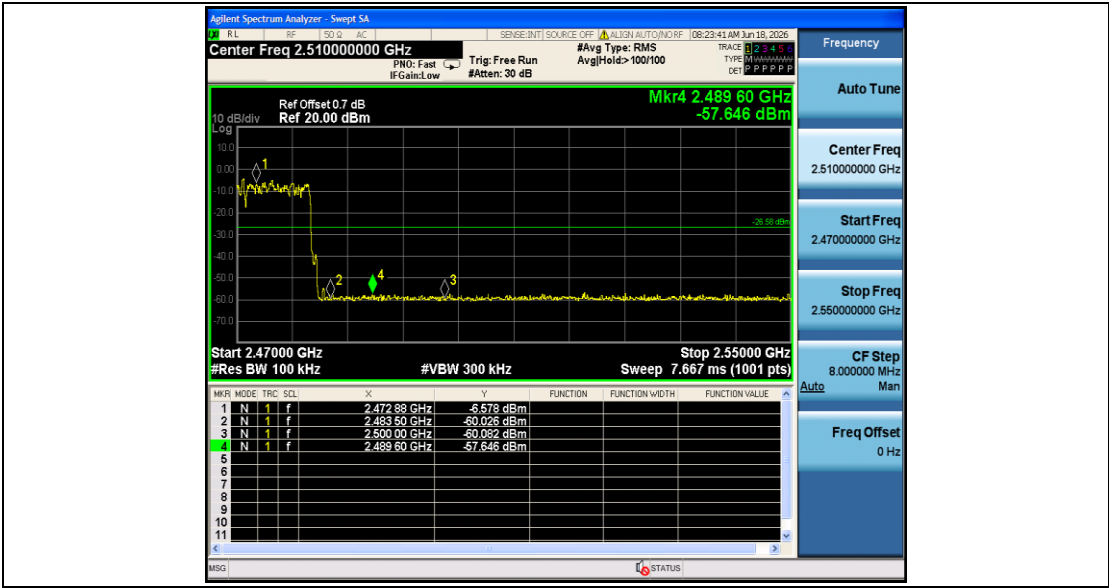
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

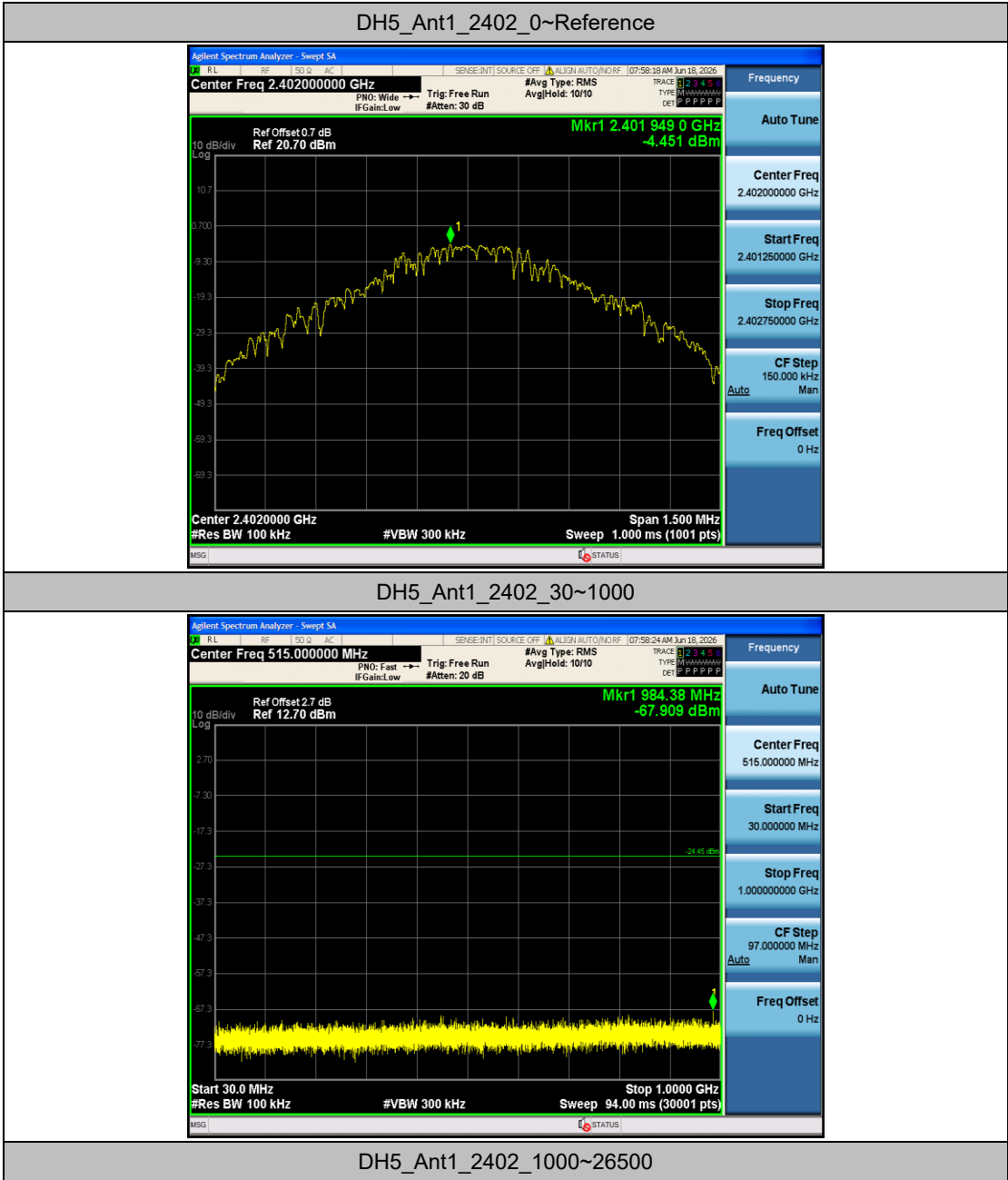


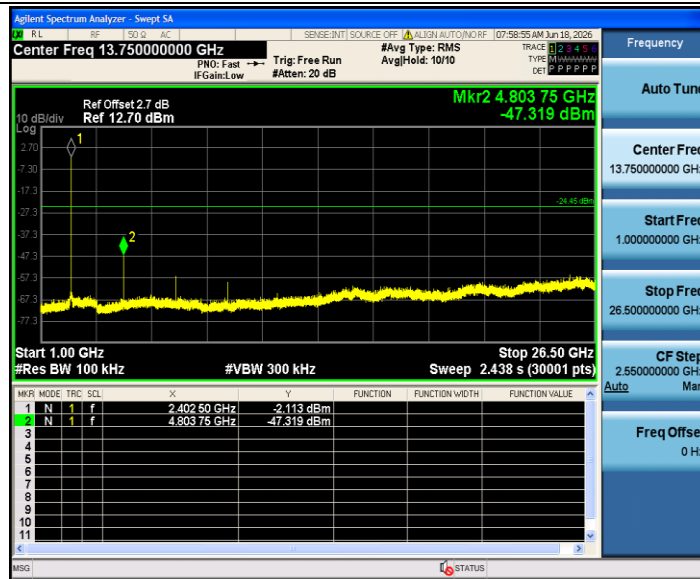
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-67.91	≤-24.45	PASS
			1000~26500	-4.45	-47.32	≤-24.45	PASS
		2441	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-69.15	≤-24.3	PASS
			1000~26500	-4.30	-47.75	≤-24.3	PASS
		2480	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-68.05	≤-24.34	PASS
			1000~26500	-4.34	-48.2	≤-24.34	PASS
2DH5	Ant1	2402	Reference	-3.70	-3.70	---	PASS
			30~1000	-3.70	-68.78	≤-23.7	PASS
			1000~26500	-3.70	-47.06	≤-23.7	PASS
		2441	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-68.3	≤-23.3	PASS
			1000~26500	-3.30	-50.07	≤-23.3	PASS
		2480	Reference	-5.05	-5.05	---	PASS
			30~1000	-5.05	-68.56	≤-25.05	PASS
			1000~26500	-5.05	-48.91	≤-25.05	PASS

Test Graphs

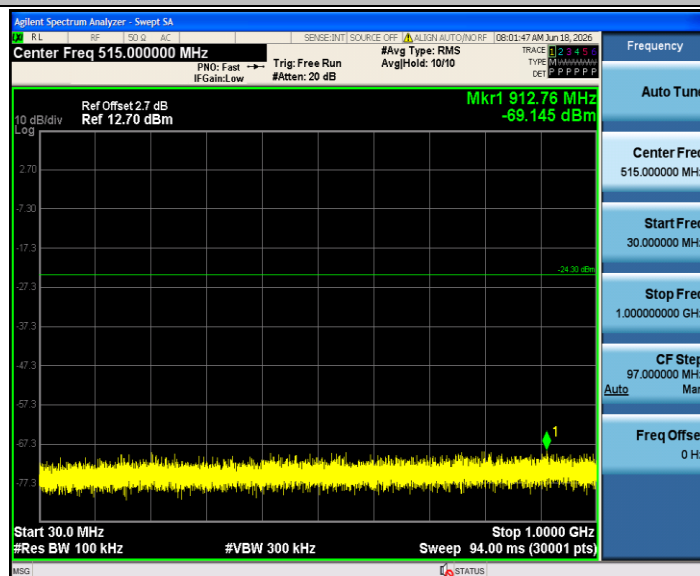




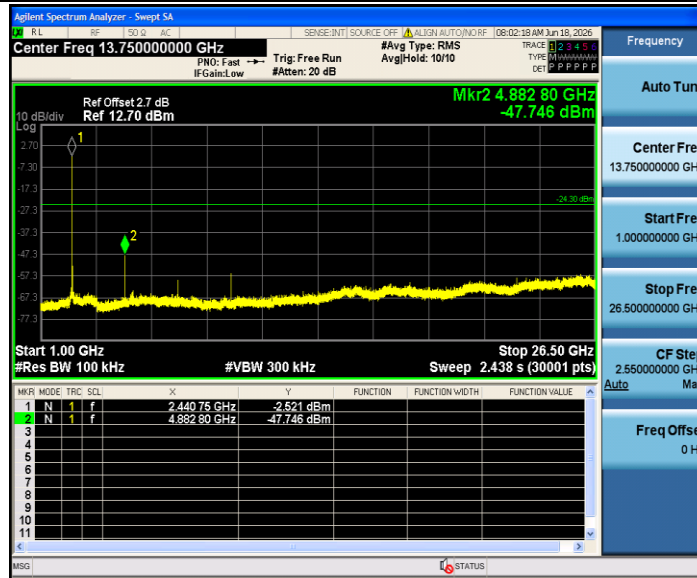
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



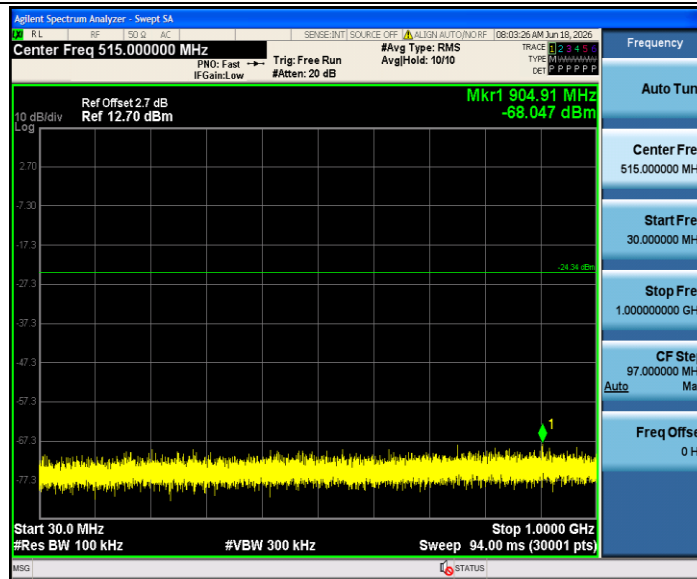
DH5_Ant1_2441_1000~26500



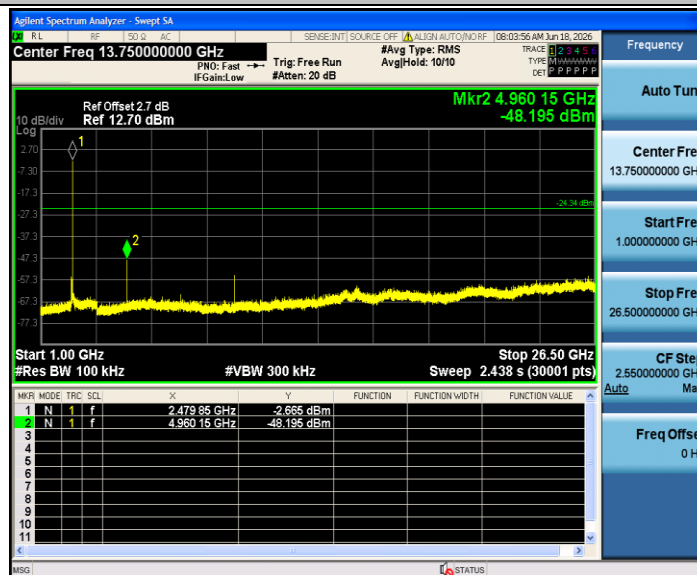
DH5_Ant1_2480_0~Reference



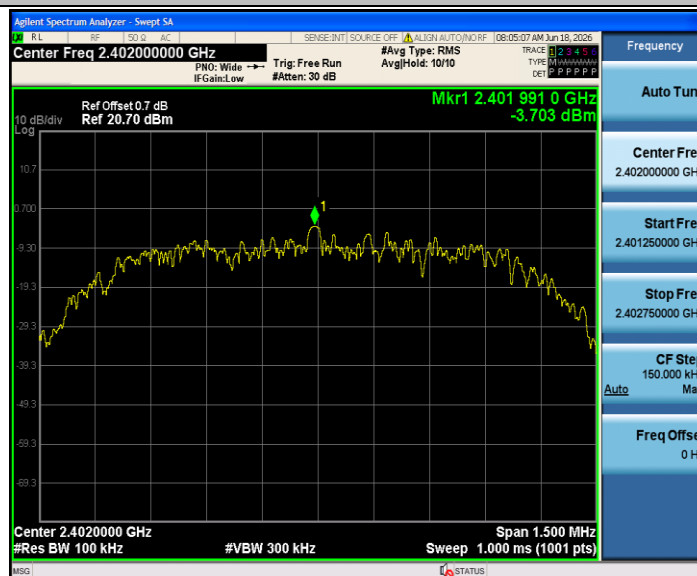
DH5_Ant1_2480_30~1000



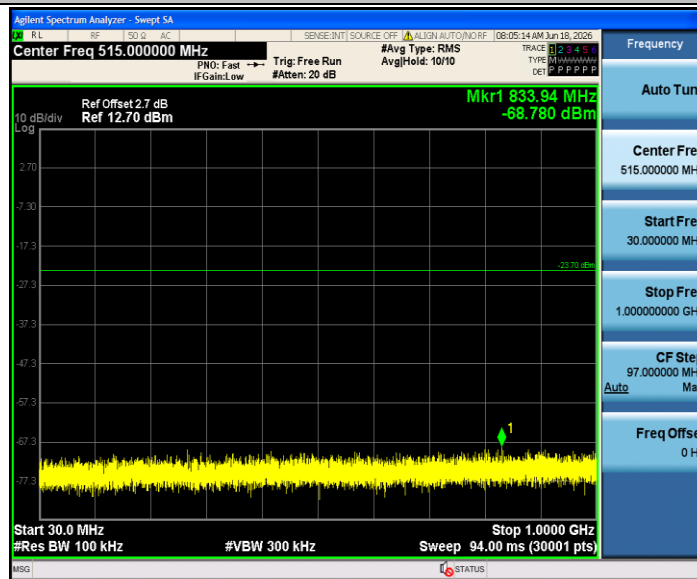
DH5_Ant1_2480_1000~26500



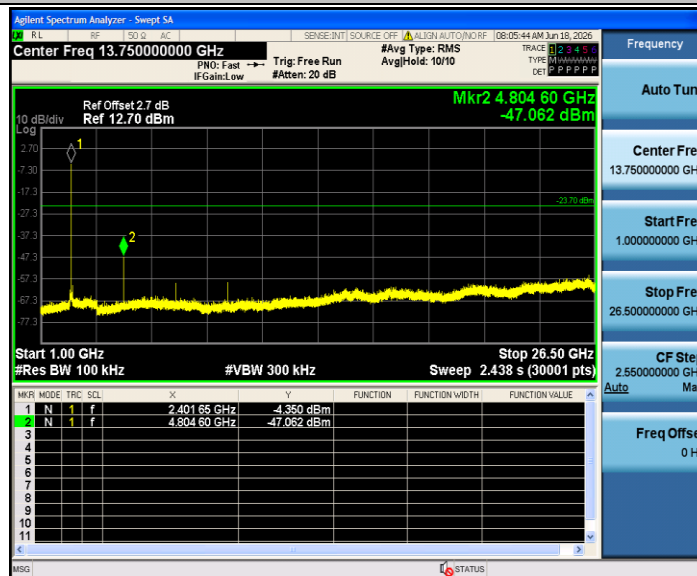
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



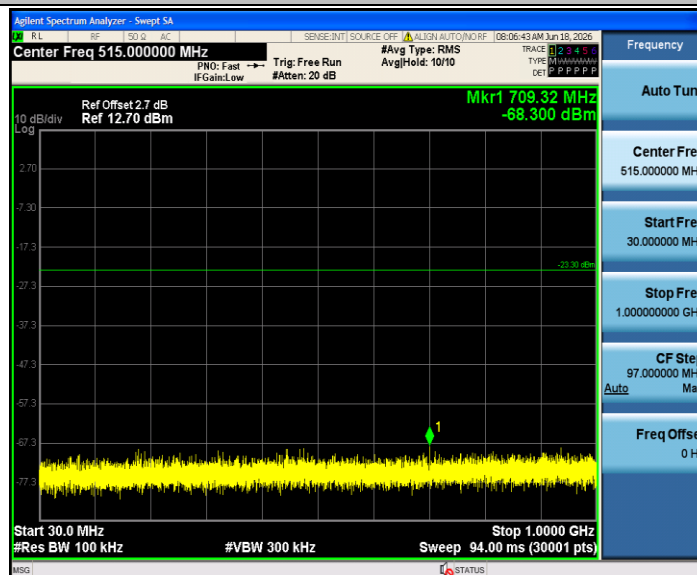
2DH5_Ant1_2402_1000~26500



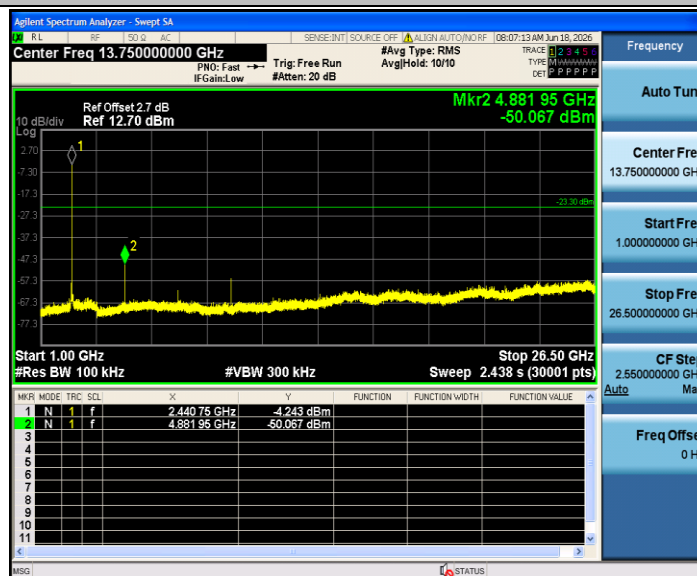
2DH5_Ant1_2441_0~Reference



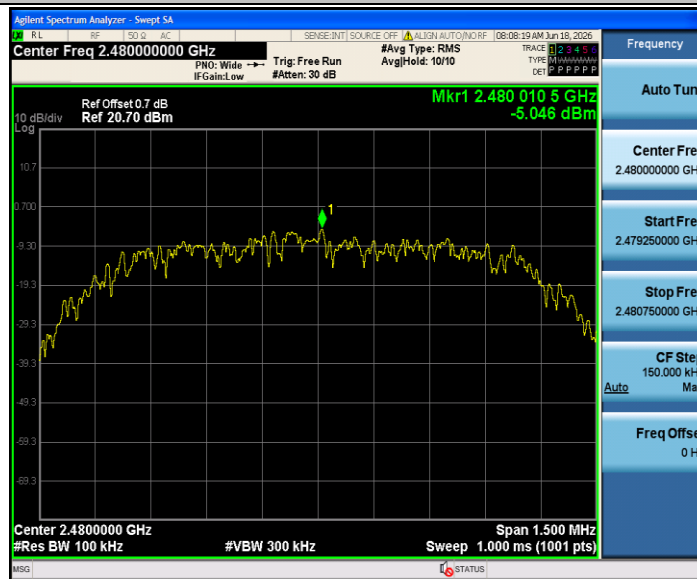
2DH5_Ant1_2441_30~1000



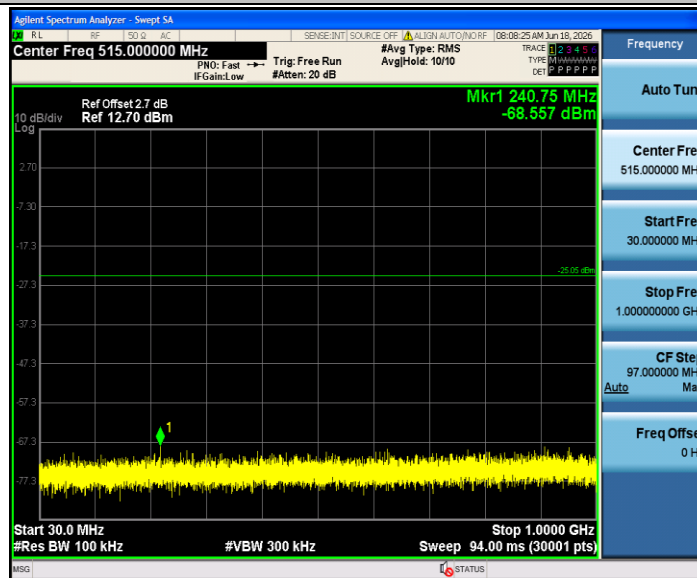
2DH5_Ant1_2441_1000~26500



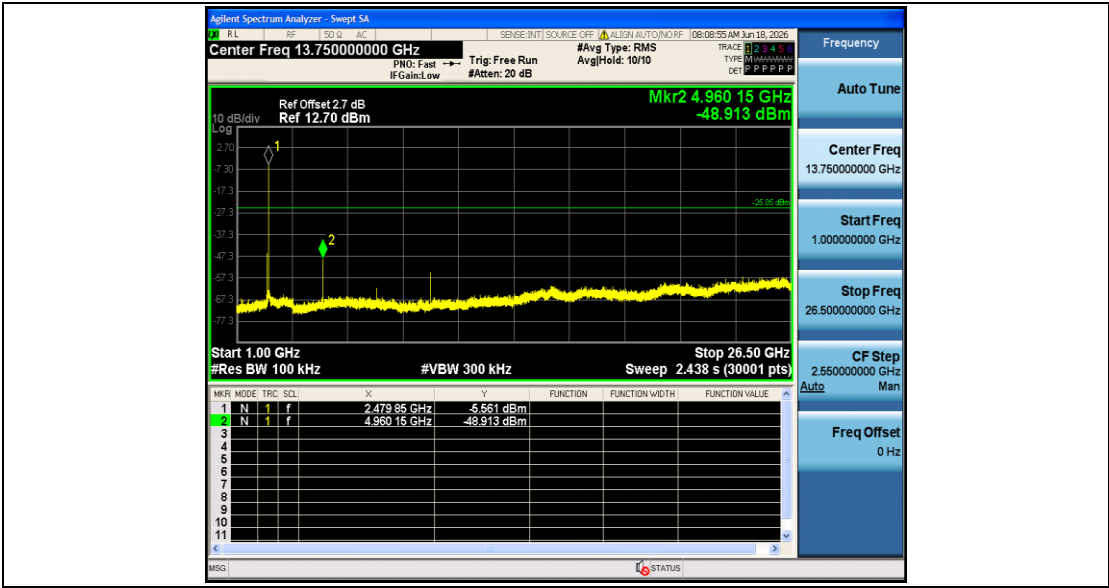
2DH5_Ant1_2480_0~Reference



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	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.91	3.74	77.81	1.09	---	---