

FCC Appendix RF Test Data BT

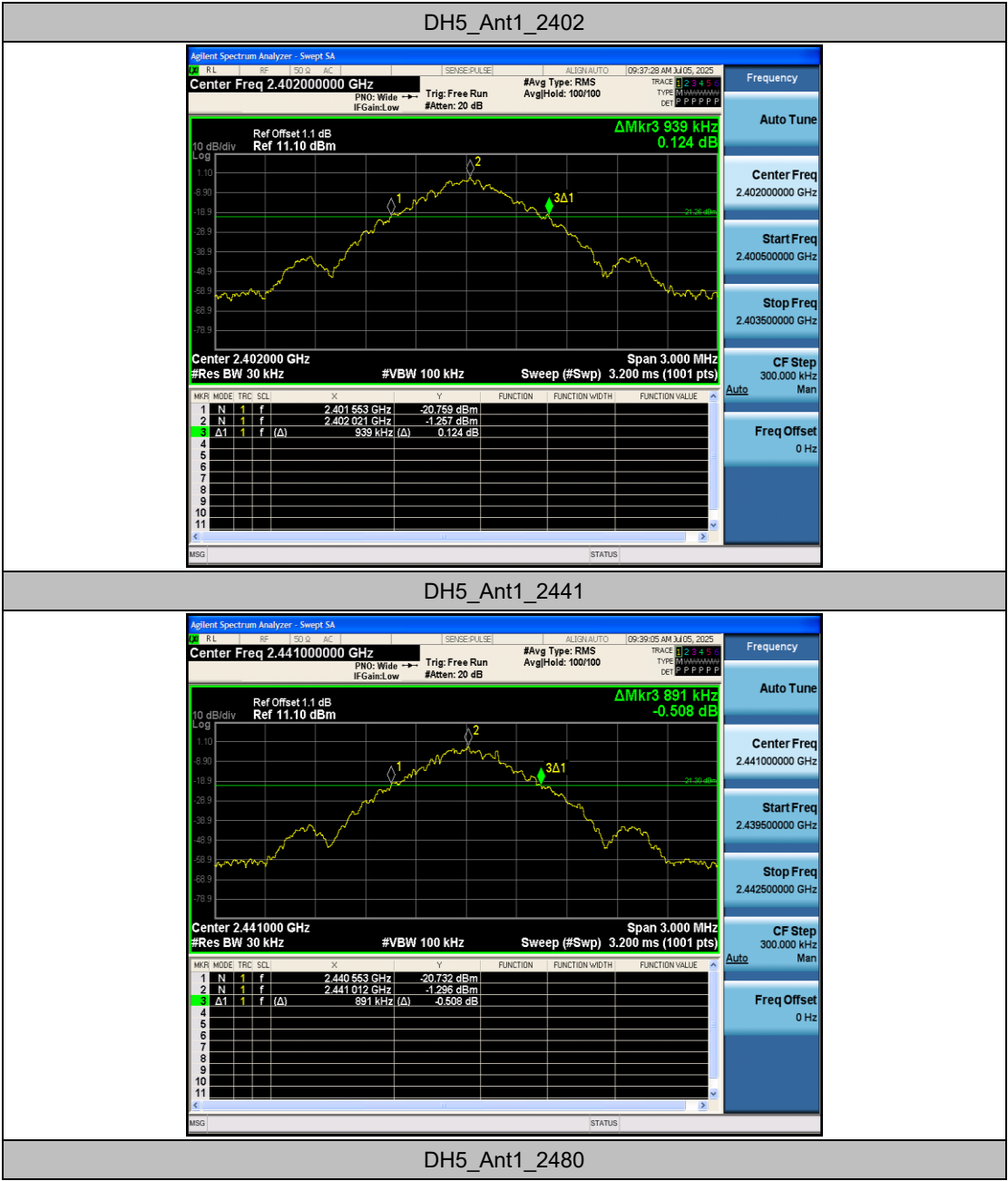
FCC ID : 2AC5R-SC-1136BT
Company : SUPERSONIC INC
EUT : 2.1 MULTIMEDIA SPEAKER
Model Number : SC-1136BT
Report No. : CTA25070302701
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.553	2402.492	---	---
		2441	0.891	2440.553	2441.444	---	---
		2480	0.942	2479.553	2480.495	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.275	2440.382	2441.657	---	---
		2480	1.311	2479.361	2480.672	---	---
3DH5	Ant1	2402	1.275	2401.382	2402.657	---	---
		2441	1.317	2440.349	2441.666	---	---
		2480	1.314	2479.355	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



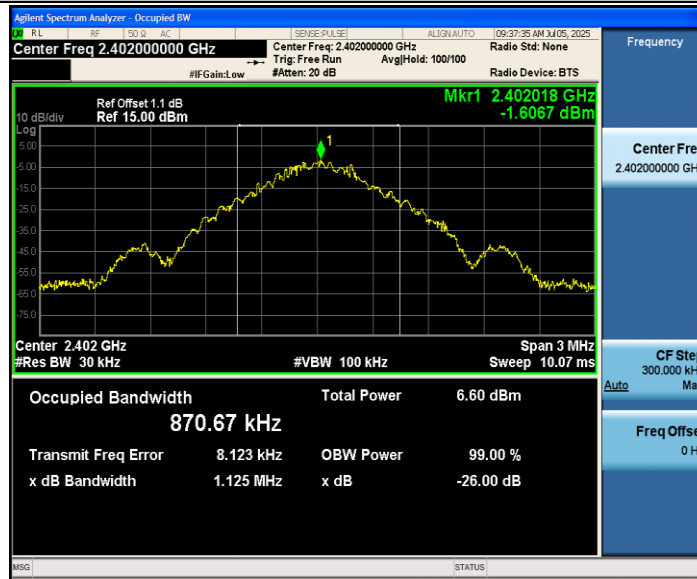
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87067	2401.5728	2402.4435	---	---
		2441	0.86252	2440.5792	2441.4417	---	---
		2480	0.87508	2479.5746	2480.4497	---	---
2DH5	Ant1	2402	1.1885	2401.4167	2402.6052	---	---
		2441	1.1840	2440.4183	2441.6023	---	---
		2480	1.1832	2479.4196	2480.6028	---	---
3DH5	Ant1	2402	1.1868	2401.4174	2402.6042	---	---
		2441	1.1886	2440.4167	2441.6053	---	---
		2480	1.1810	2479.4196	2480.6006	---	---

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	0.69	≤20.97	PASS
		2441	0.44	≤20.97	PASS
		2480	0.40	≤20.97	PASS
2DH5	Ant1	2402	-0.10	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.46	≤20.97	PASS
3DH5	Ant1	2402	-0.07	≤20.97	PASS
		2441	-0.30	≤20.97	PASS
		2480	-0.41	≤20.97	PASS

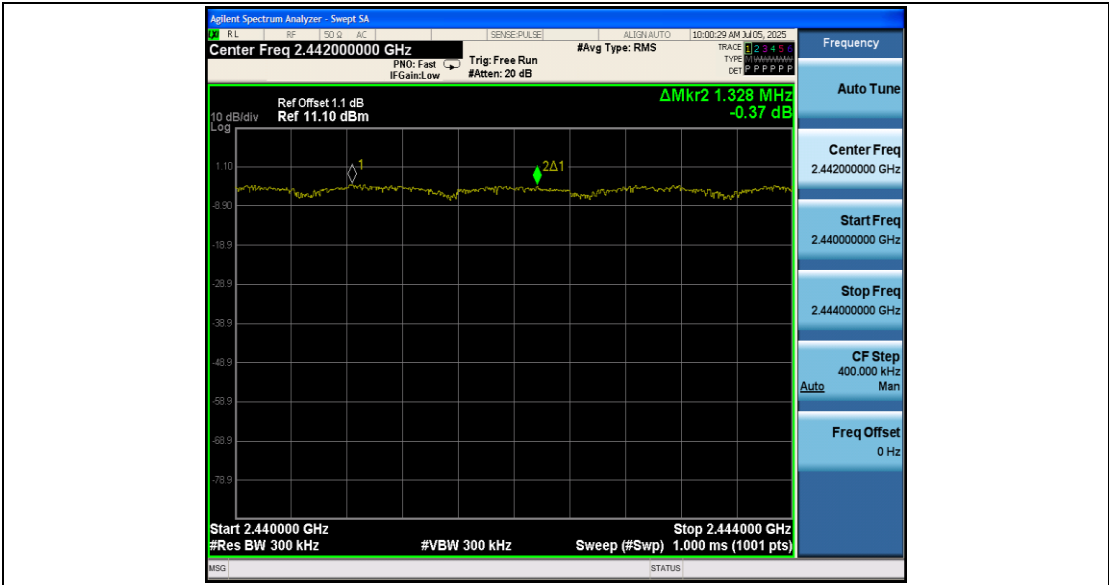
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.942	PASS
2DH5	Ant1	Hop	1.144	≥ 0.874	PASS
3DH5	Ant1	Hop	1.328	≥ 1.317	PASS

Test Graphs



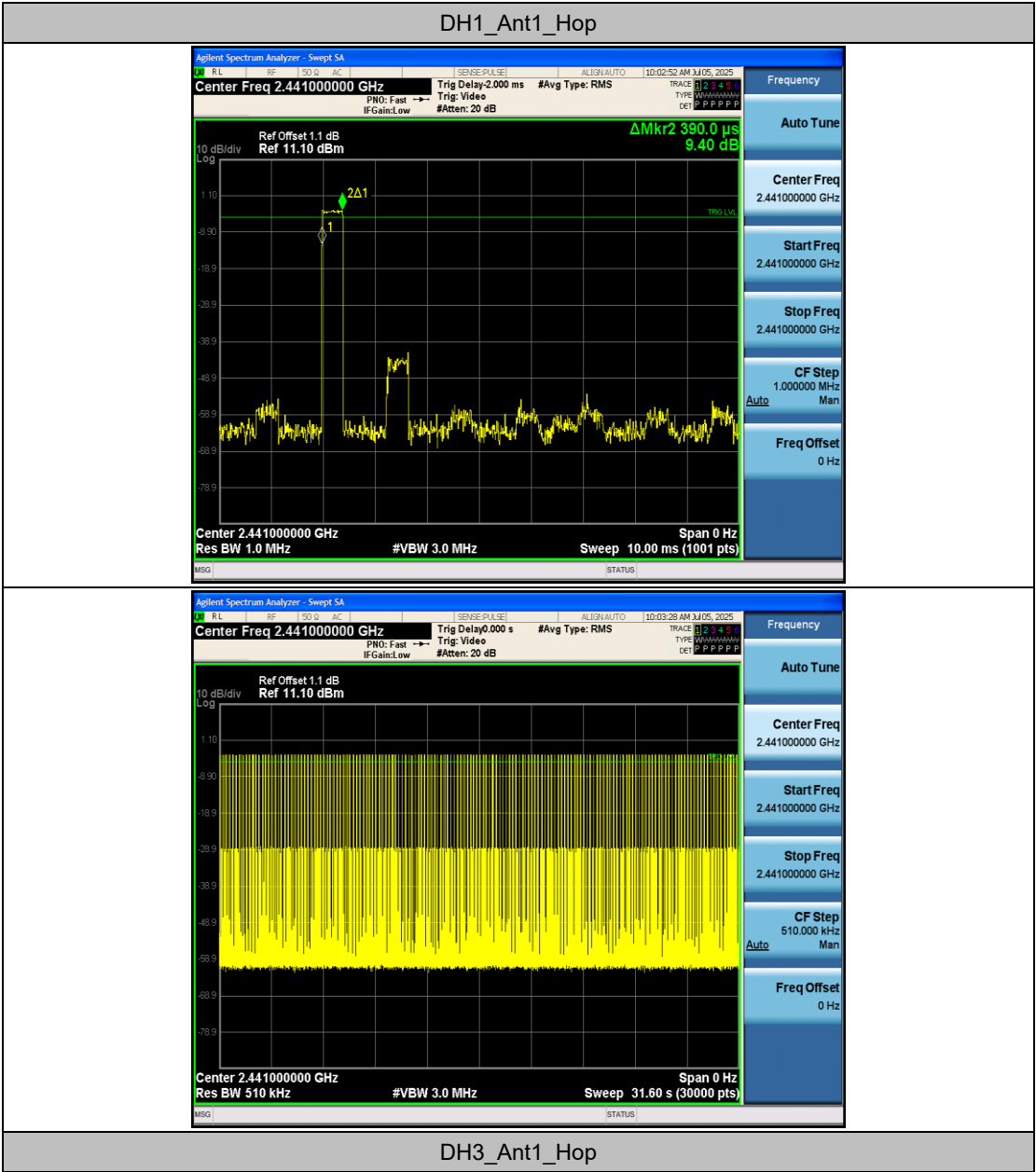


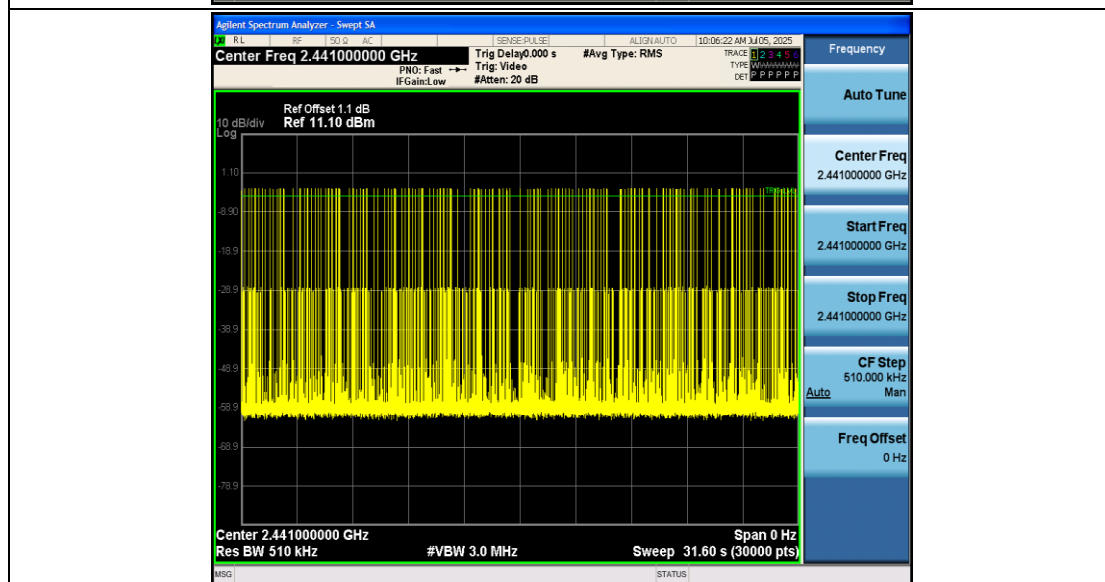
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	170	0.281	≤0.4	PASS
DH5	Ant1	Hop	2.890	102	0.295	≤0.4	PASS
2DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	165	0.271	≤0.4	PASS
2DH5	Ant1	Hop	2.900	103	0.299	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	153	0.251	≤0.4	PASS
3DH5	Ant1	Hop	2.900	104	0.302	≤0.4	PASS

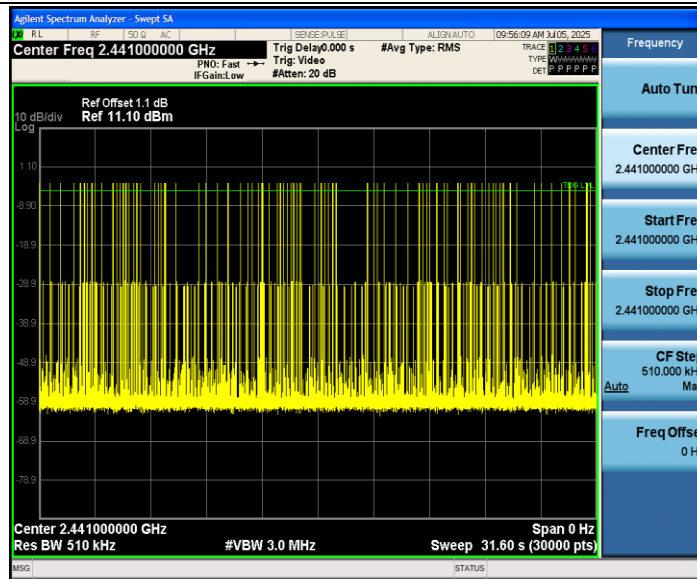
Test Graphs



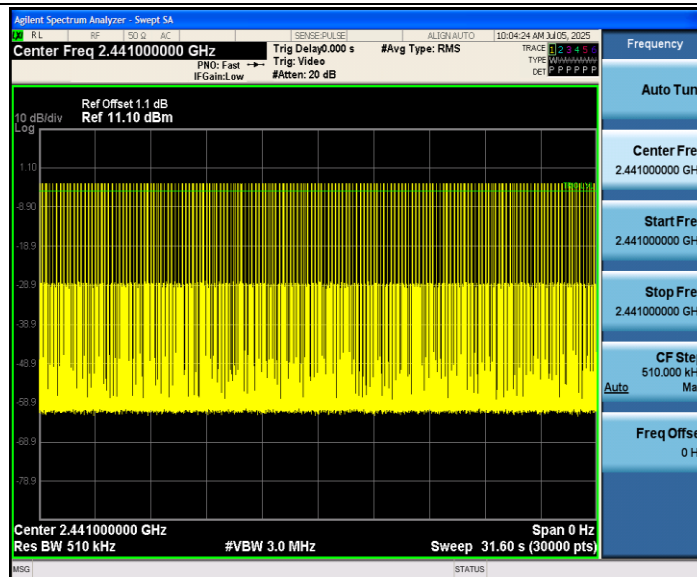
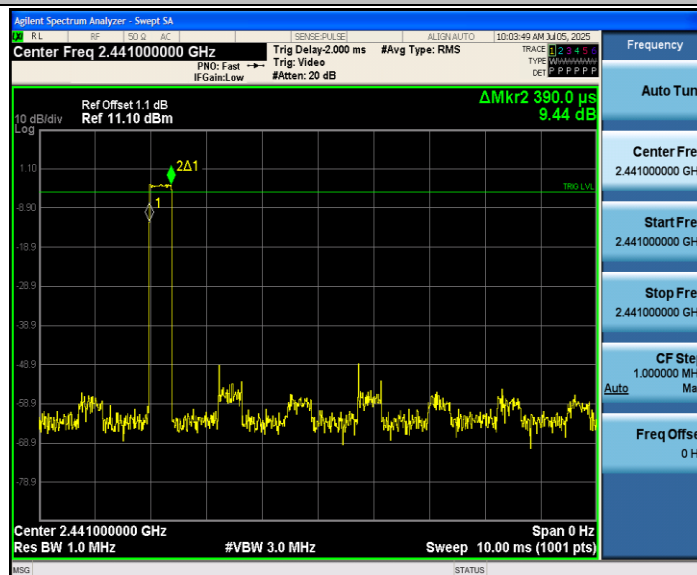


DH5_Ant1_Hop

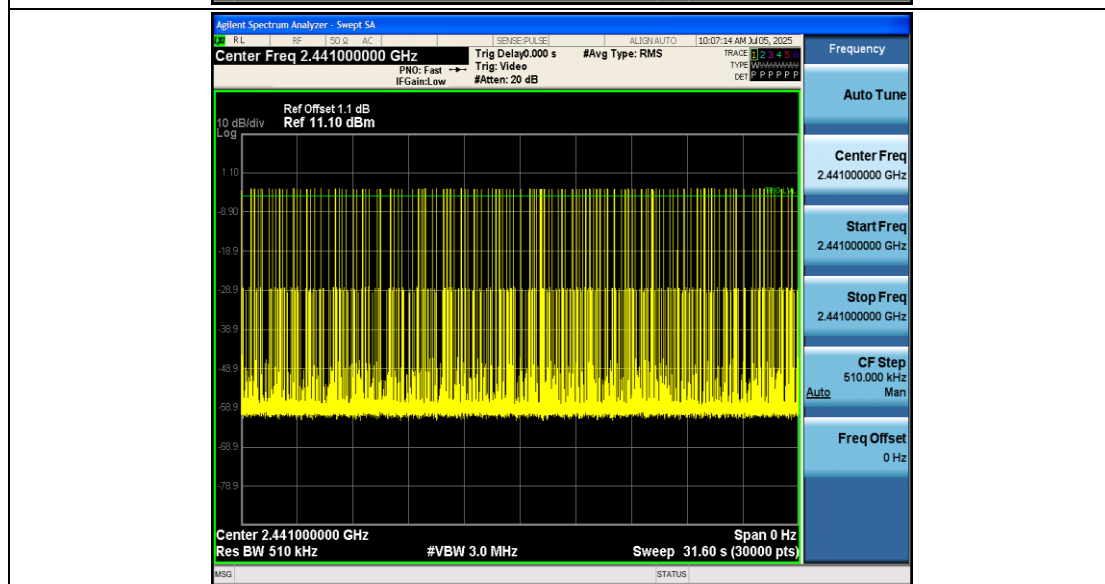




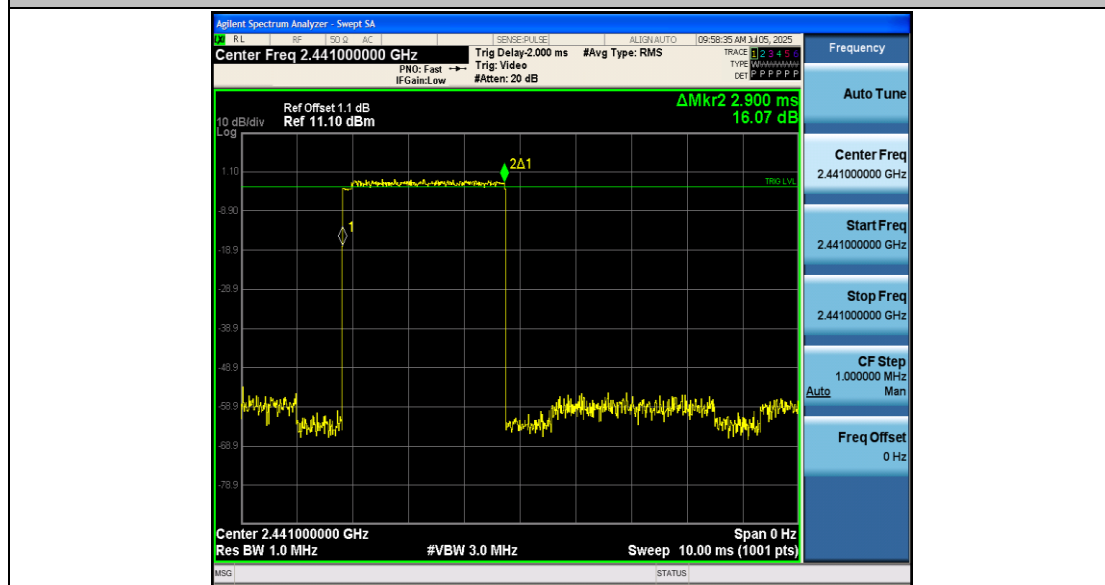
2DH1_Ant1_Hop

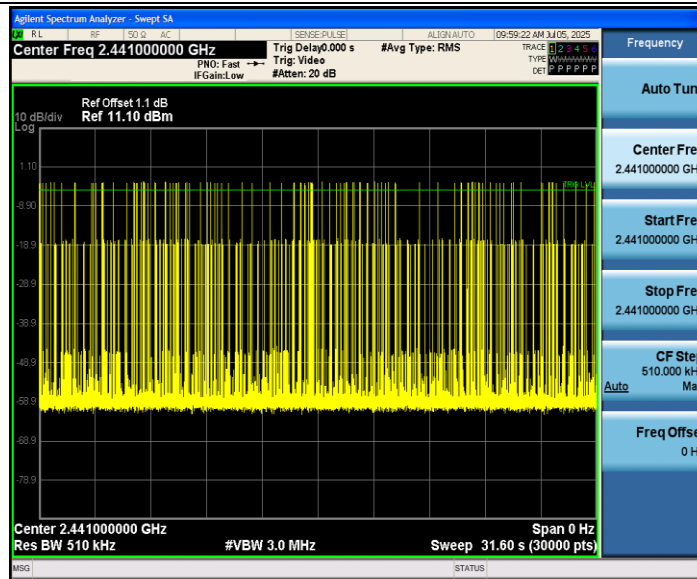


2DH3_Ant1_Hop

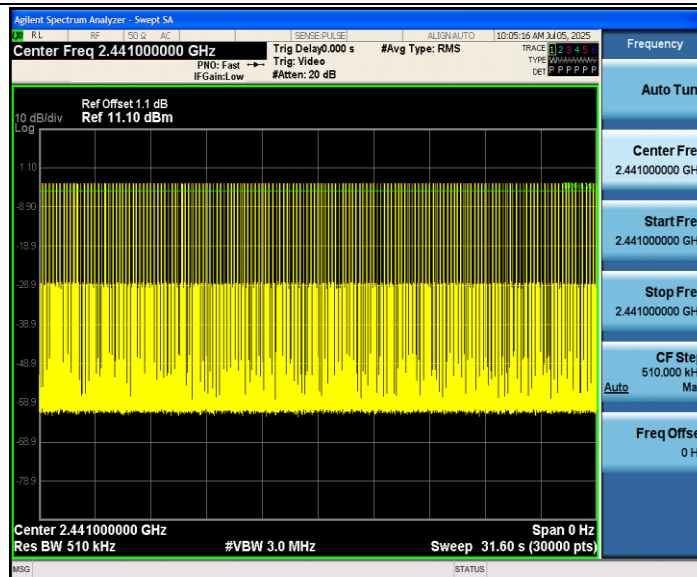
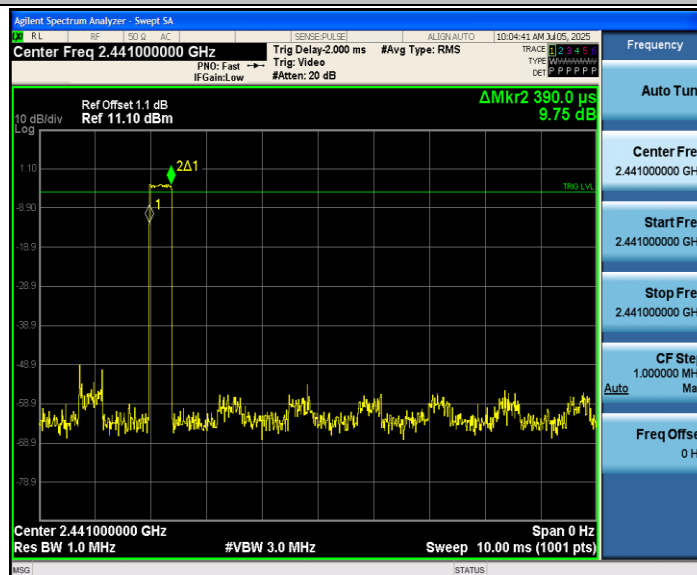


2DH5_Ant1_Hop

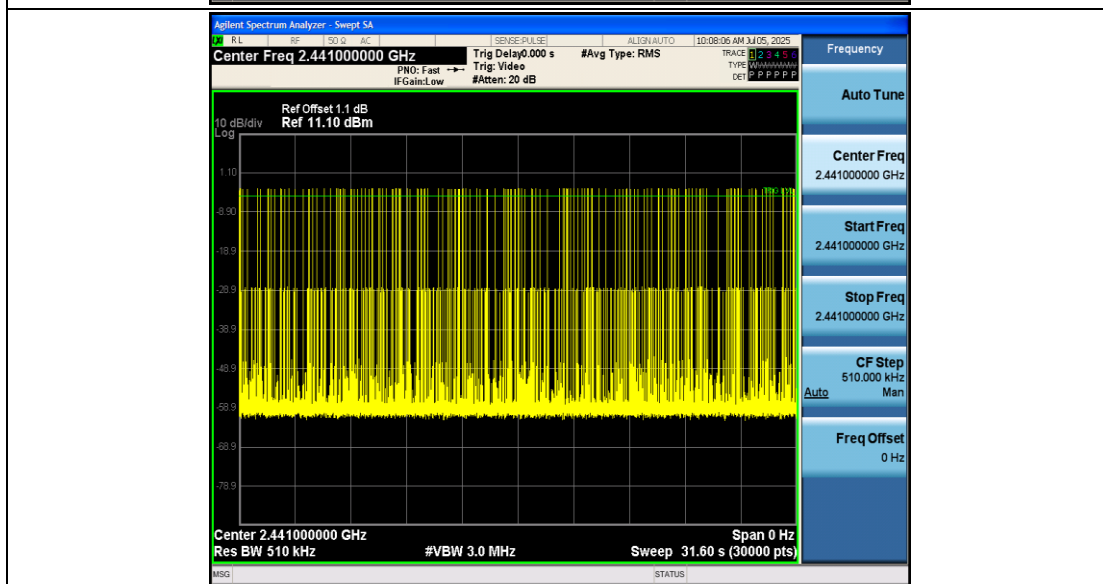
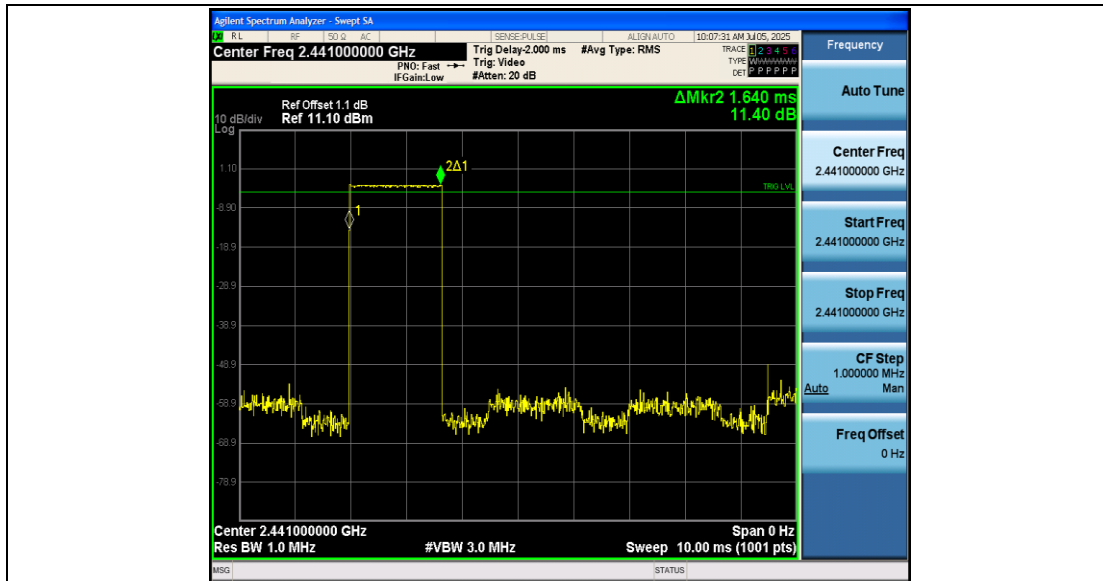




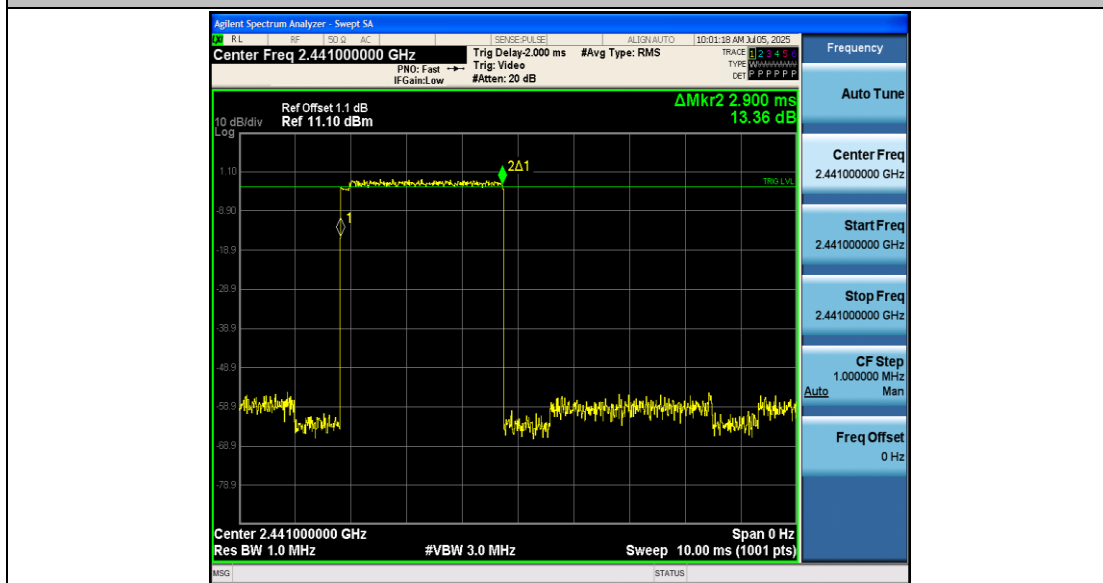
3DH1_Ant1_Hop

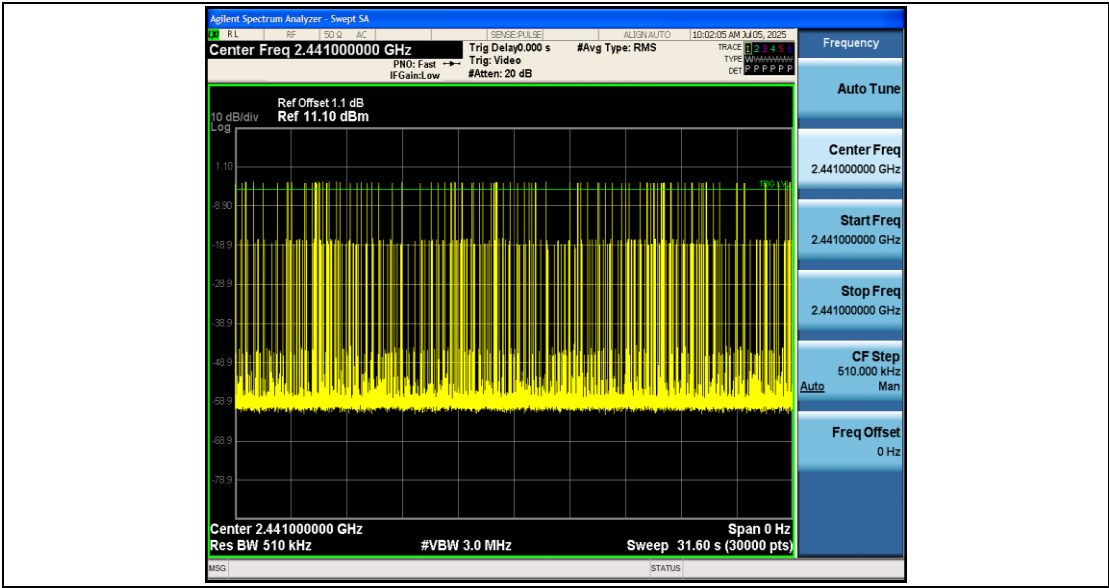


3DH3_Ant1_Hop



3DH5_Ant1_Hop



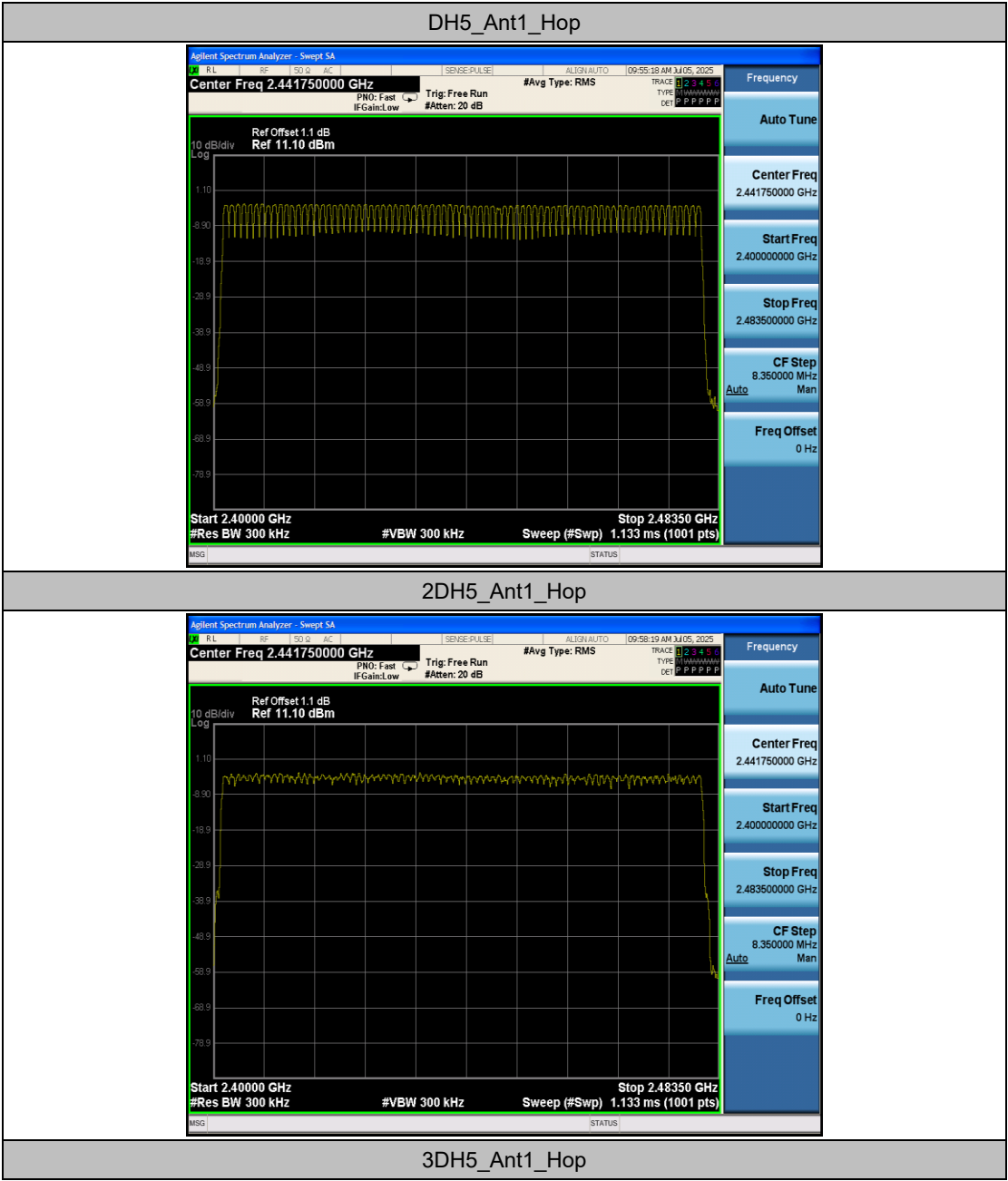


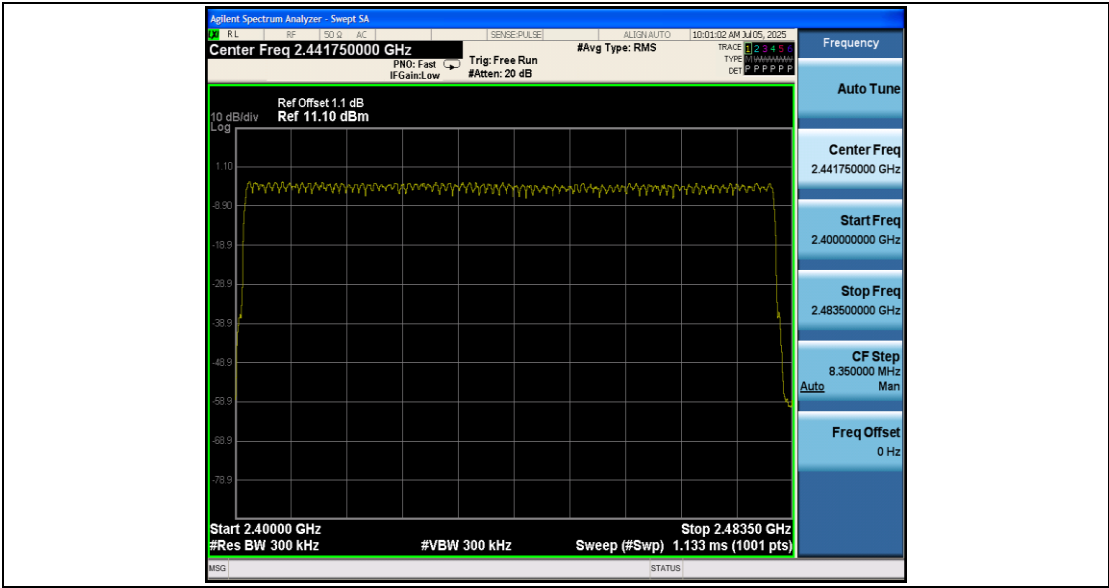
Appendix F: Number of hopping channels

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



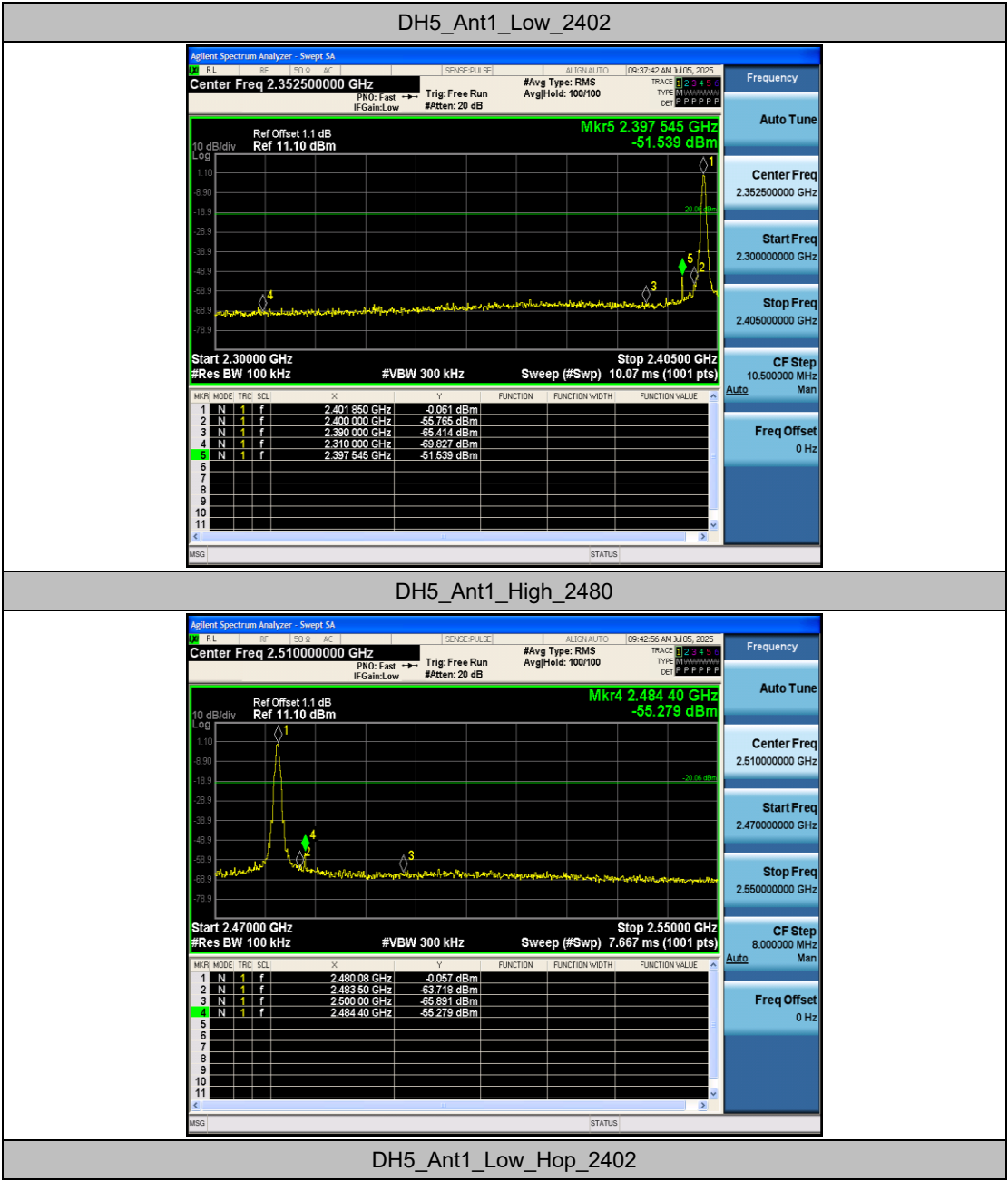


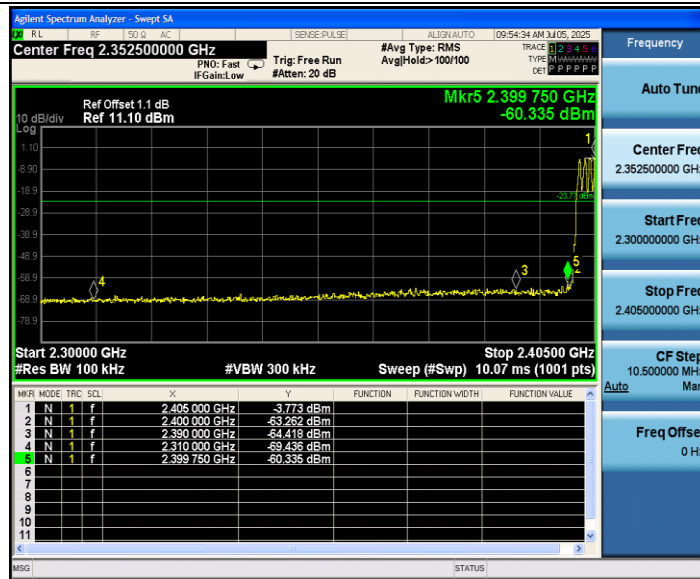
Appendix G: Band edge measurements

Test Result

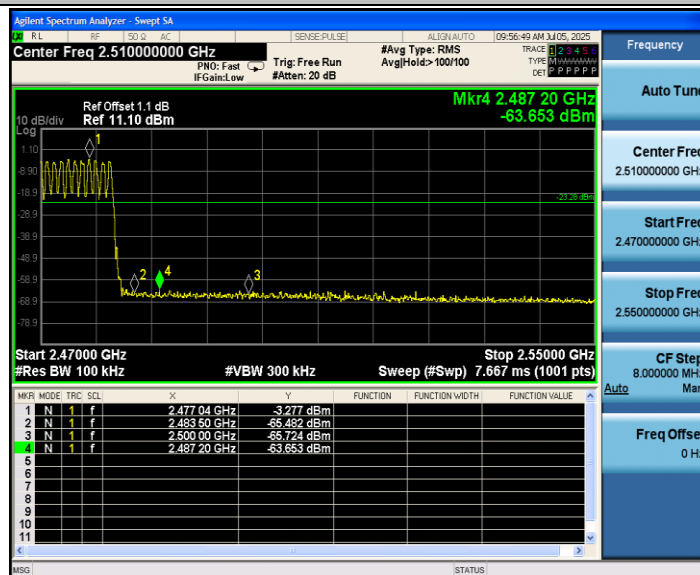
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.06	-51.54	≤-20.06	PASS
		High	2480	-0.06	-55.28	≤-20.06	PASS
		Low	Hop_2402	-3.77	-60.34	≤-23.77	PASS
		High	Hop_2480	-3.28	-63.65	≤-23.28	PASS
2DH5	Ant1	Low	2402	-5.08	-59.16	≤-25.08	PASS
		High	2480	-4.12	-57.79	≤-24.12	PASS
		Low	Hop_2402	-5.87	-60.84	≤-25.87	PASS
		High	Hop_2480	-4.32	-49.91	≤-24.32	PASS
3DH5	Ant1	Low	2402	-4.88	-59.7	≤-24.88	PASS
		High	2480	-3.87	-62.77	≤-23.87	PASS
		Low	Hop_2402	-4.08	-62.13	≤-24.08	PASS
		High	Hop_2480	-3.75	-63.82	≤-23.75	PASS

Test Graphs

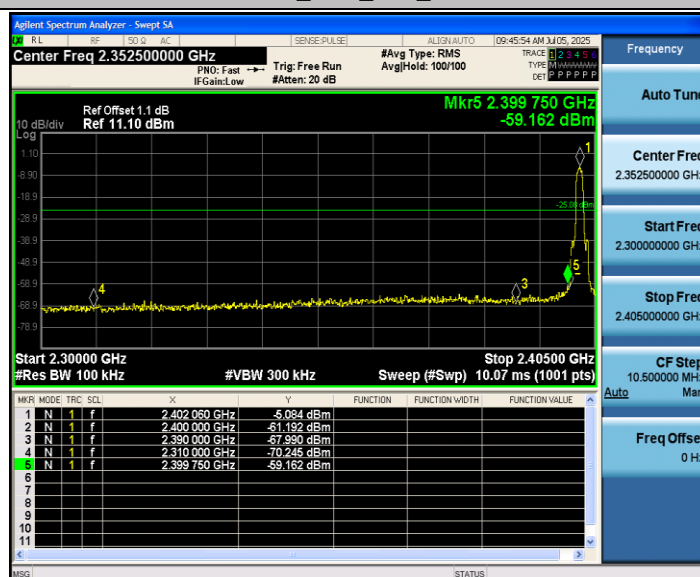




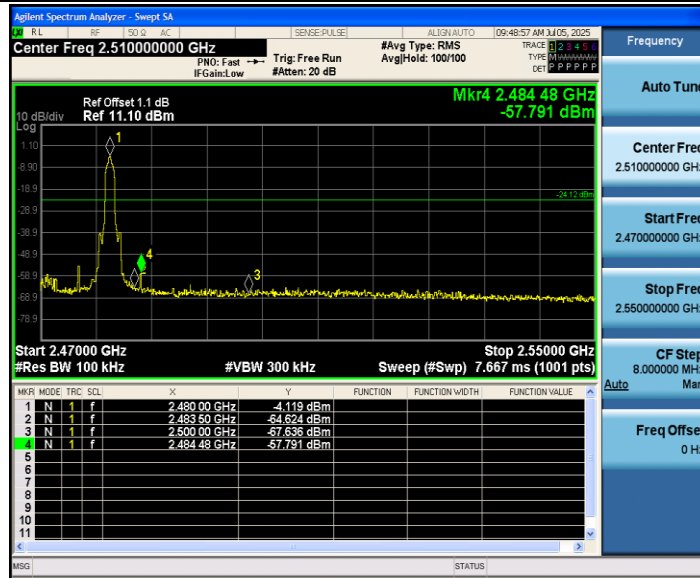
DH5_Ant1_High_Hop_2480



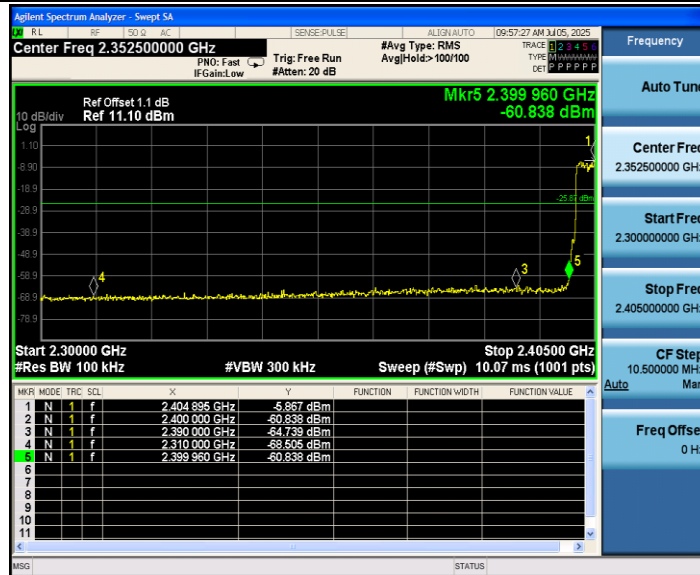
2DH5_Ant1_Low_2402



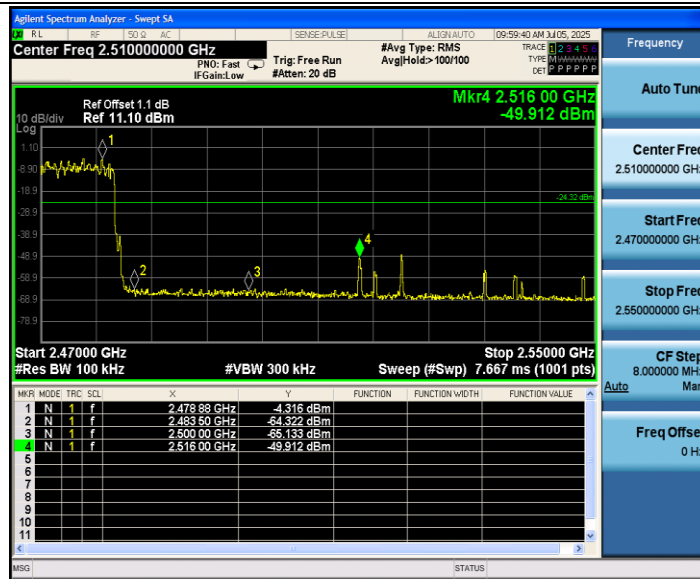
2DH5_Ant1_High_2480



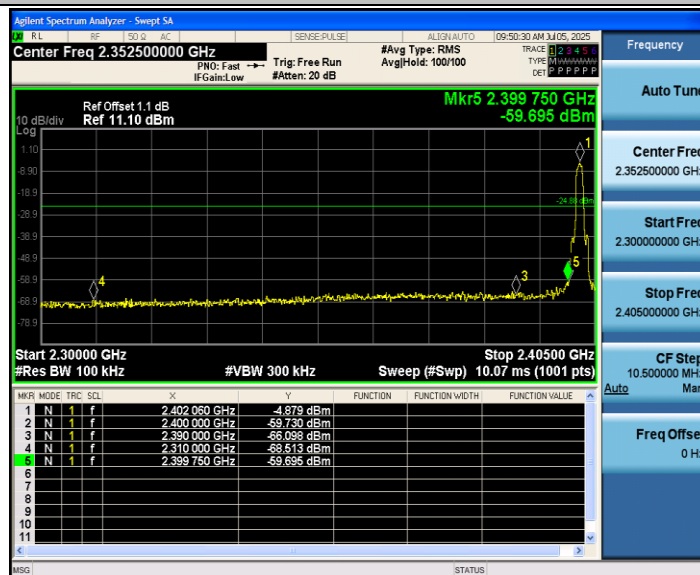
2DH5_Ant1_Low_Hop_2402



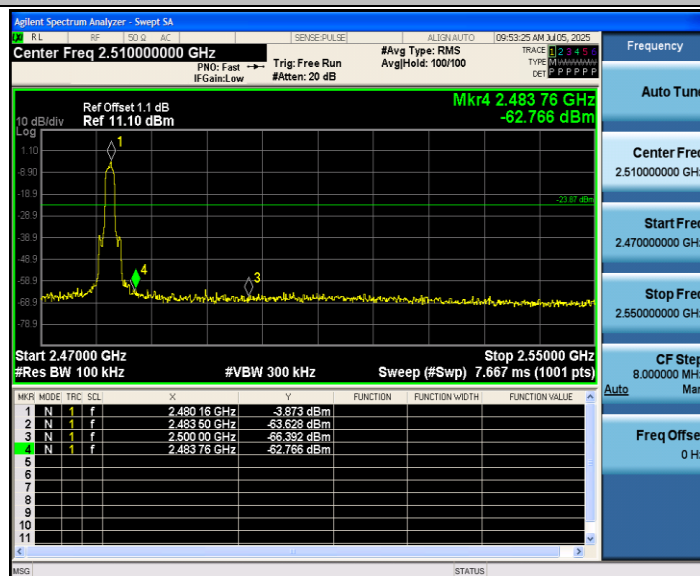
2DH5_Ant1_High_Hop_2480



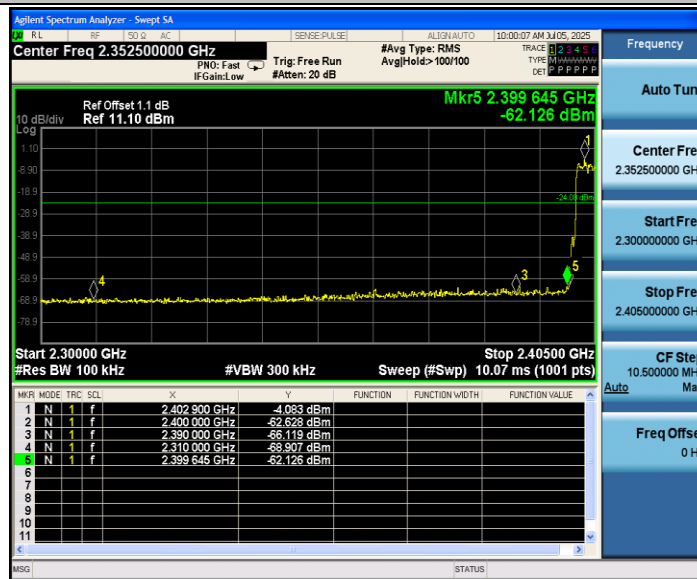
3DH5_Ant1_Low_2402



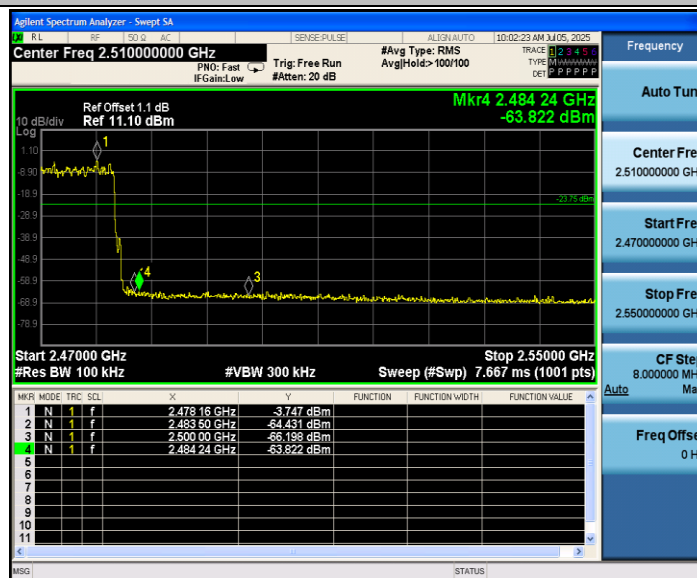
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

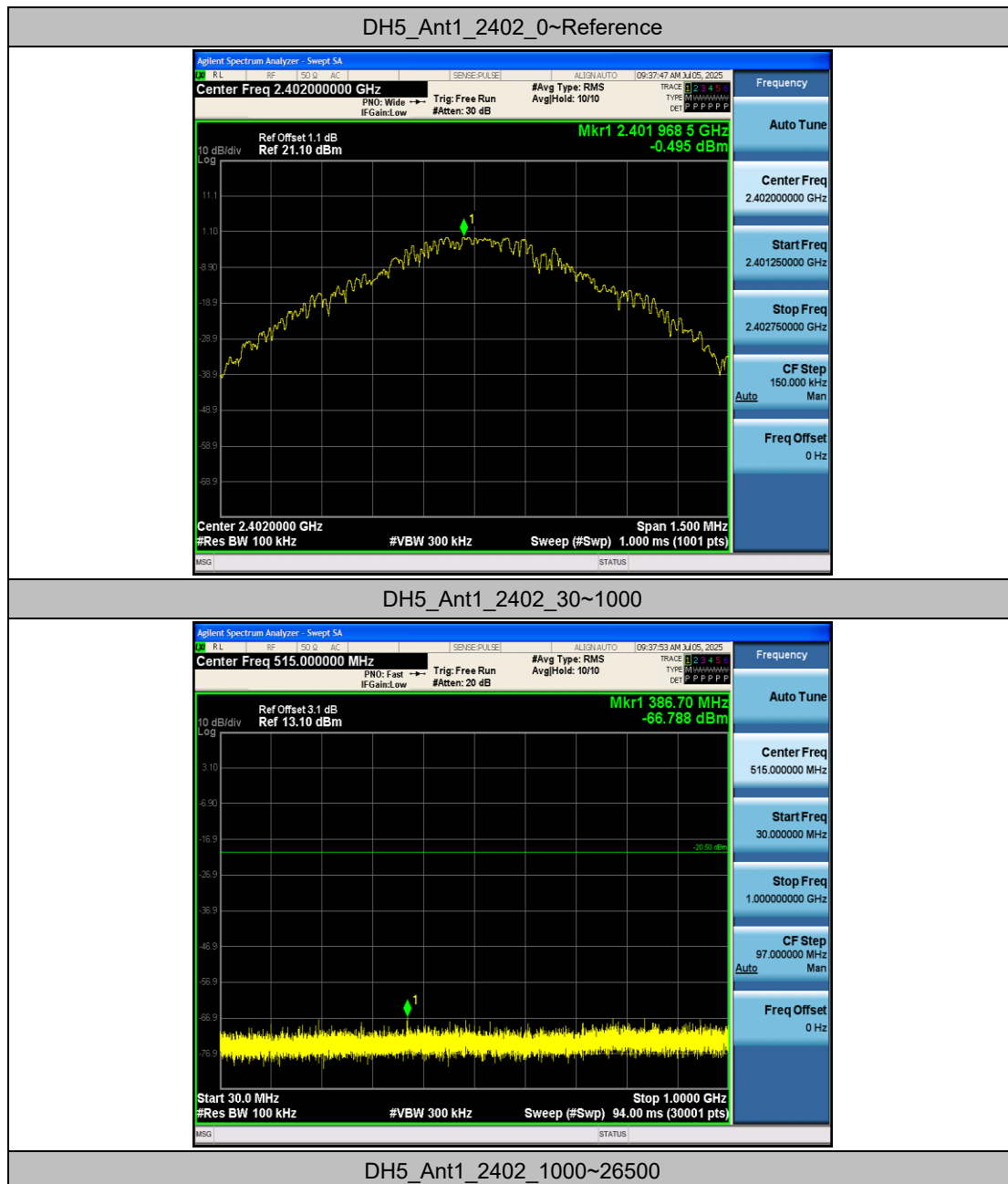


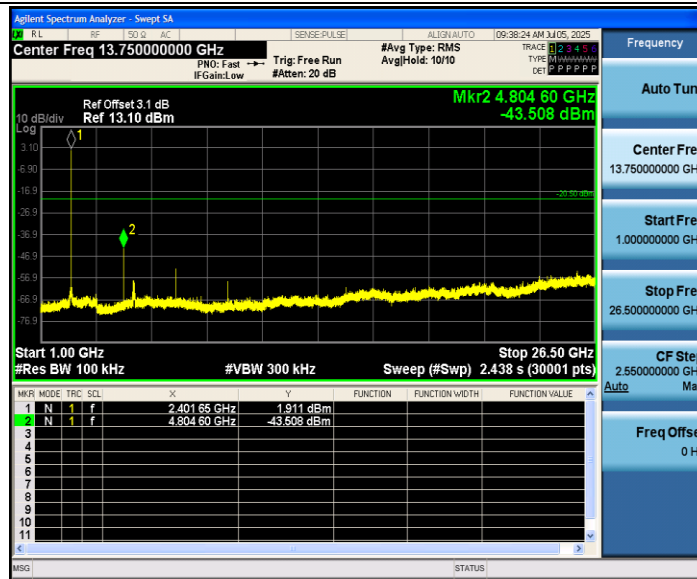
Appendix H: Conducted Spurious Emission

Test Result

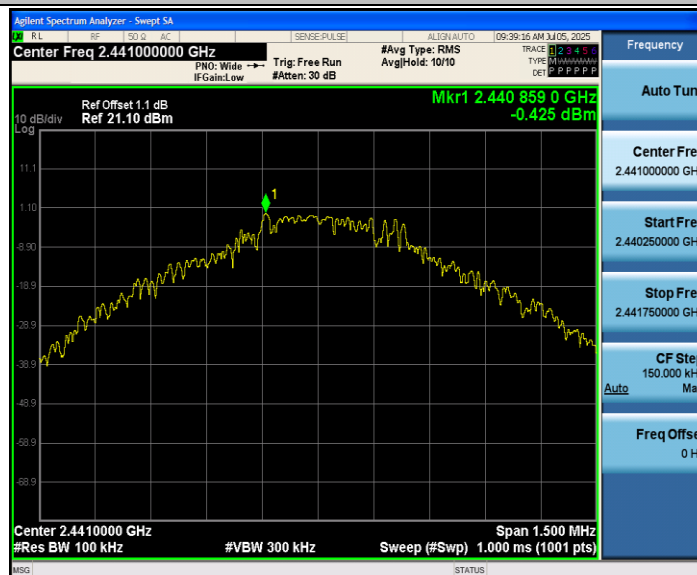
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.50	-0.50	---	PASS
			30~1000	-0.50	-66.79	≤-20.5	PASS
			1000~26500	-0.50	-43.51	≤-20.5	PASS
		2441	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-59.54	≤-20.43	PASS
			1000~26500	-0.43	-40.23	≤-20.43	PASS
		2480	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-67.55	≤-19.76	PASS
			1000~26500	0.24	-44.58	≤-19.76	PASS
2DH5	Ant1	2402	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-67.14	≤-25.71	PASS
			1000~26500	-5.71	-49.09	≤-25.71	PASS
		2441	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-67.14	≤-26.37	PASS
			1000~26500	-6.37	-35.26	≤-26.37	PASS
		2480	Reference	-5.46	-5.46	---	PASS
			30~1000	-5.46	-49.73	≤-25.46	PASS
			1000~26500	-5.46	-39.25	≤-25.46	PASS
3DH5	Ant1	2402	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-65.59	≤-24.08	PASS
			1000~26500	-4.08	-46.96	≤-24.08	PASS
		2441	Reference	-6.70	-6.70	---	PASS
			30~1000	-6.70	-67.04	≤-26.7	PASS
			1000~26500	-6.70	-43.03	≤-26.7	PASS
		2480	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-67.19	≤-23.21	PASS
			1000~26500	-3.21	-49.35	≤-23.21	PASS

Test Graphs

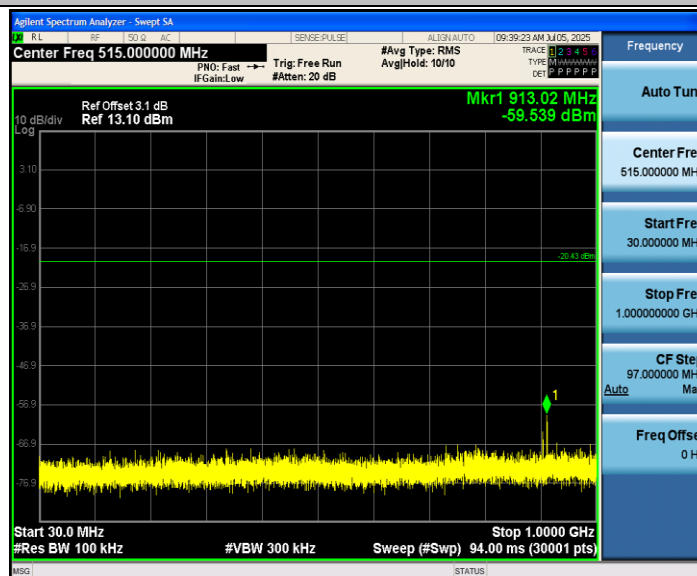




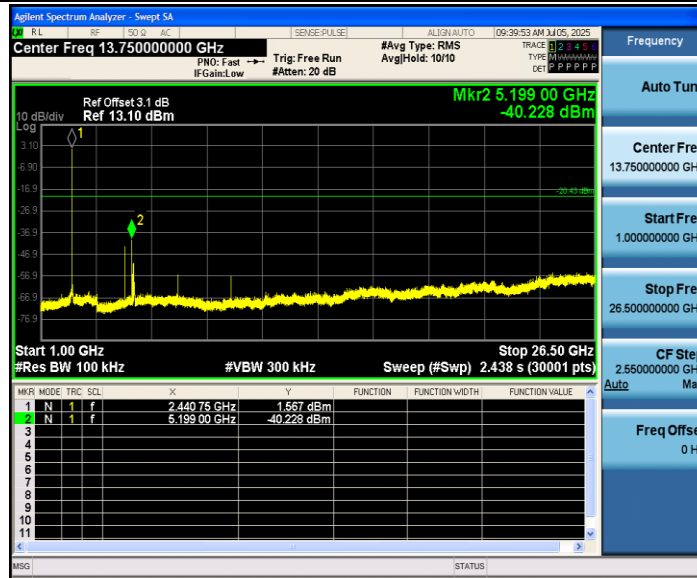
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



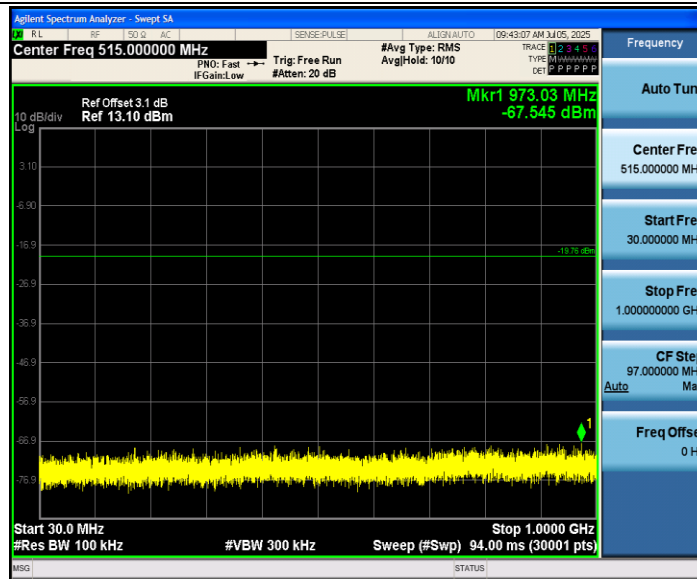
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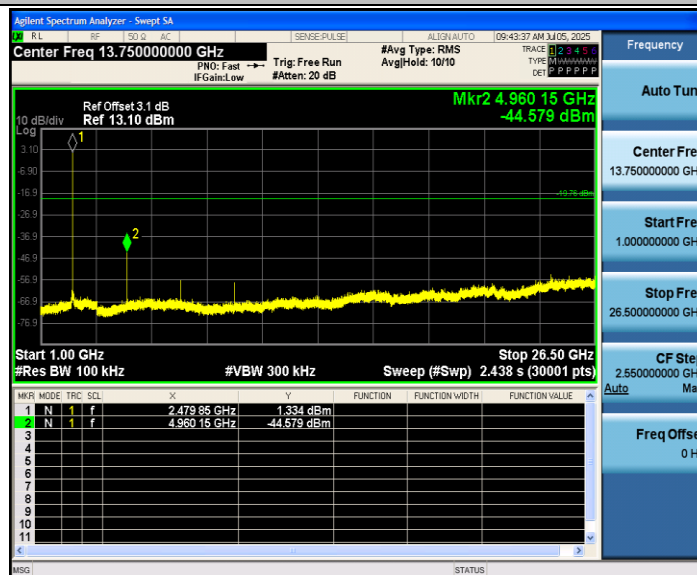
DH5_Ant1_2480_0~Reference



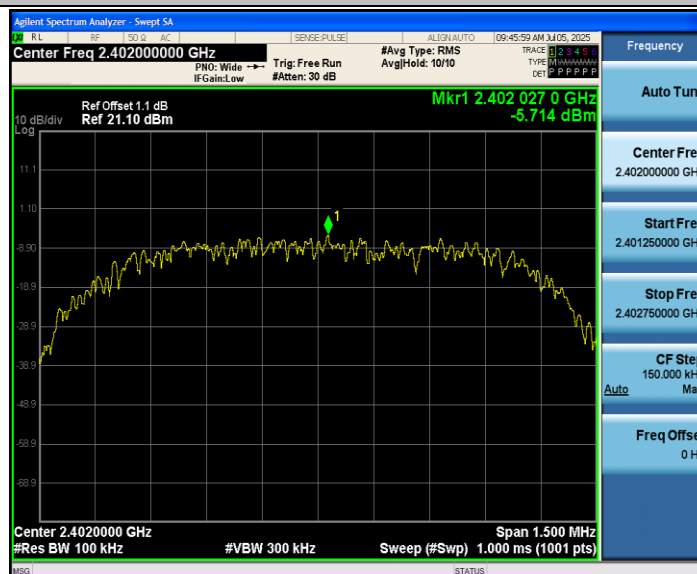
DH5_Ant1_2480_30~1000



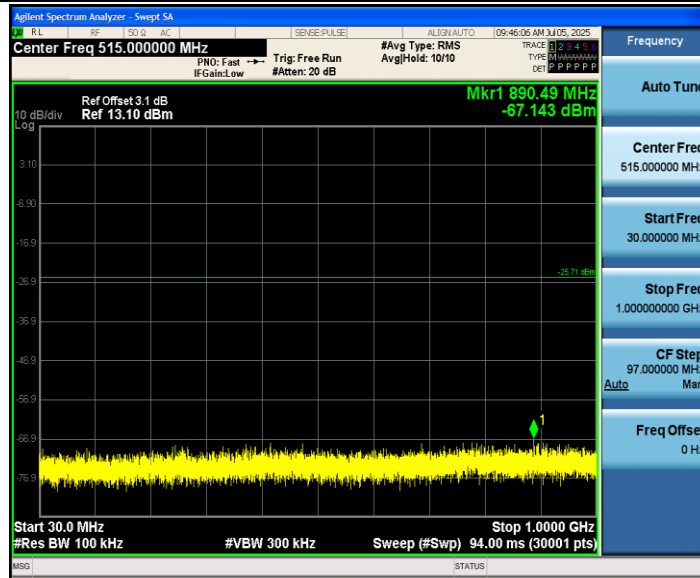
DH5_Ant1_2480_1000~26500



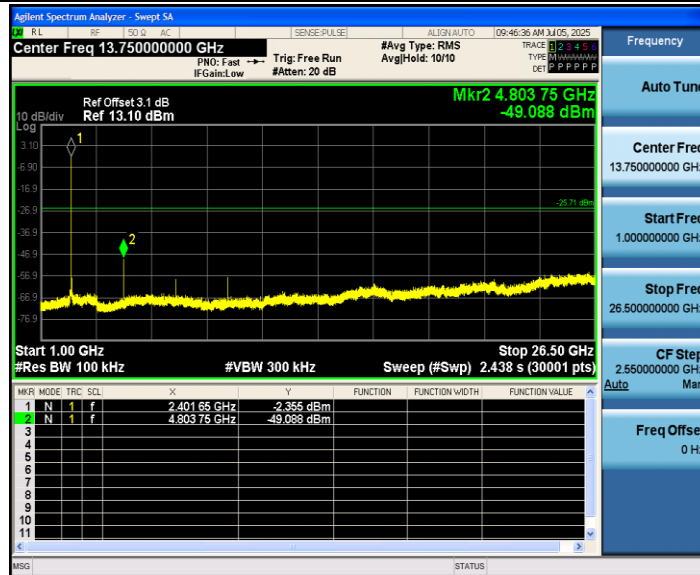
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference