

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Novelty Wireless Speakers Boombox

Test Model: IKSPKBOO-TA

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

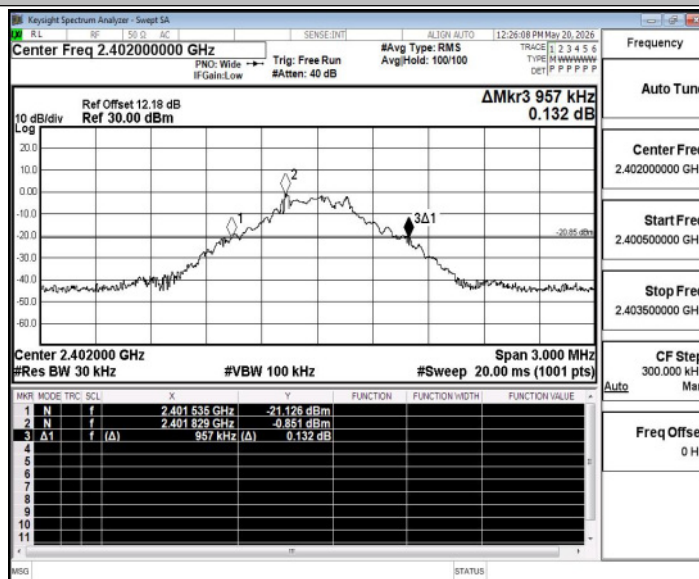
A.1 20dB Emission Bandwidth

Test Result

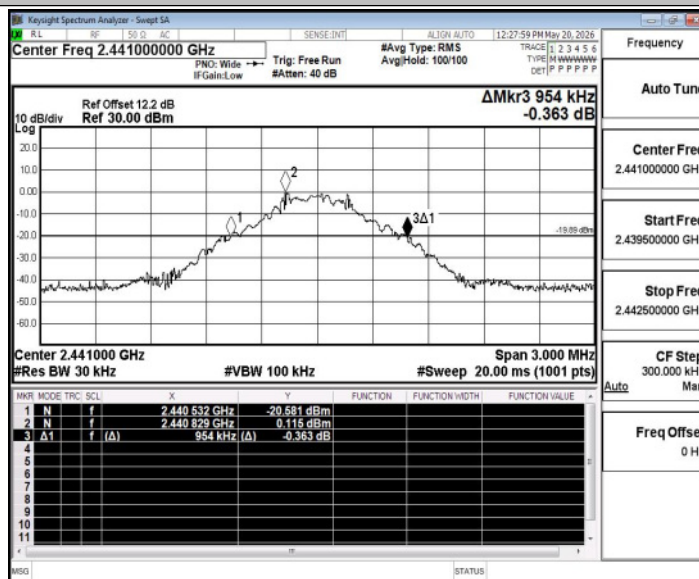
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.535	2402.492	---	---
		2441	0.954	2440.532	2441.486	---	---
		2480	0.963	2479.532	2480.495	---	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---	---
		2441	1.287	2440.361	2441.648	---	---
		2480	1.287	2479.361	2480.648	---	---
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	---
		2441	1.296	2440.346	2441.642	---	---
		2480	1.302	2479.343	2480.645	---	---

Test Graphs

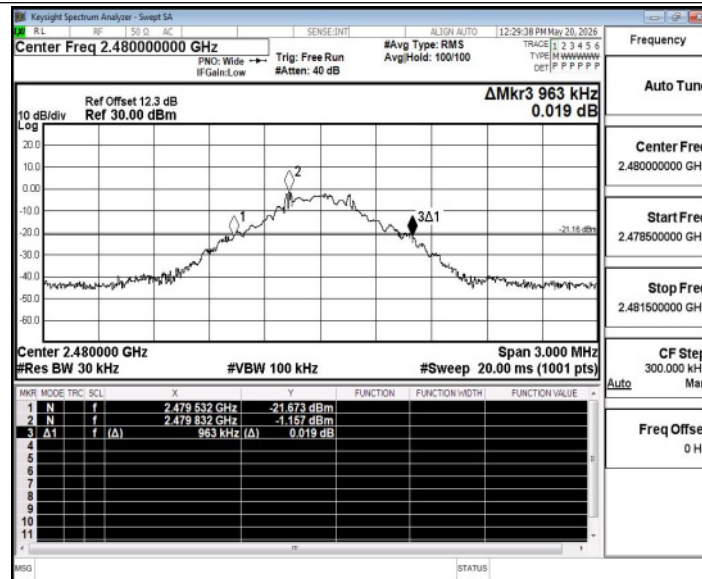
DH5_Ant1_2402



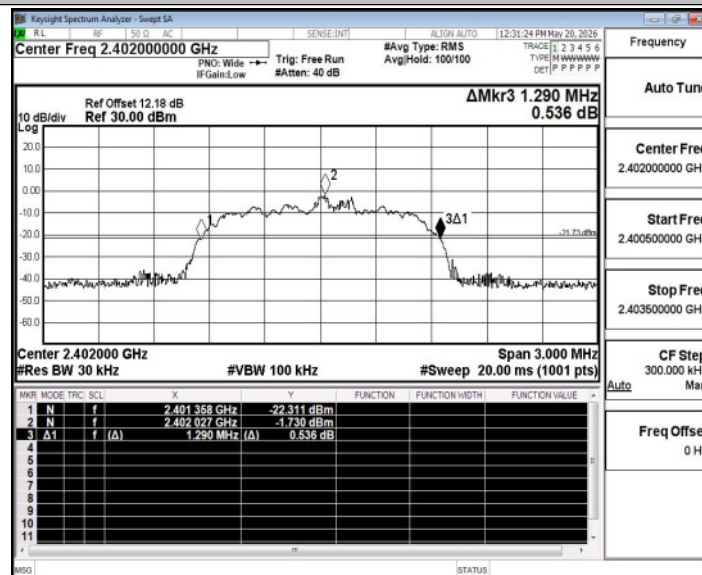
DH5_Ant1_2441



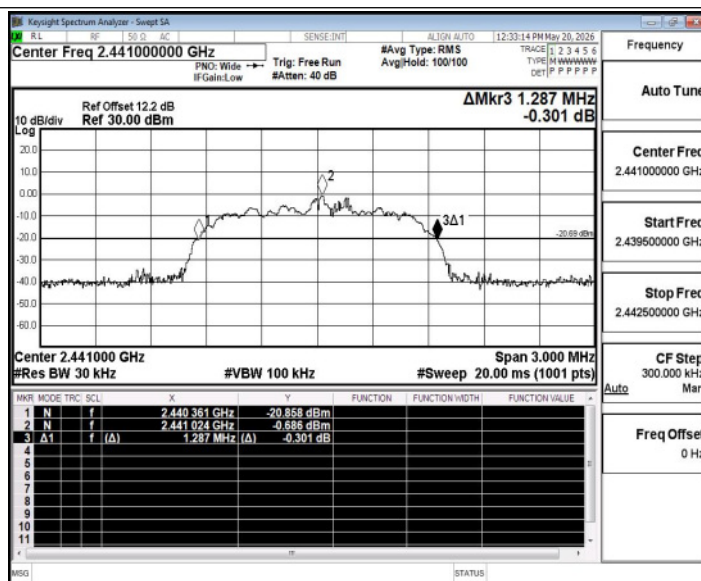
DH5_Ant1_2480



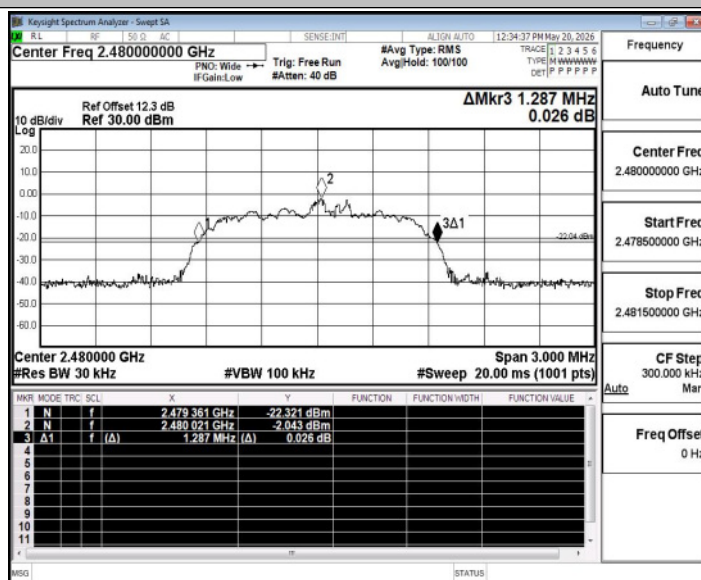
2DH5_Ant1_2402



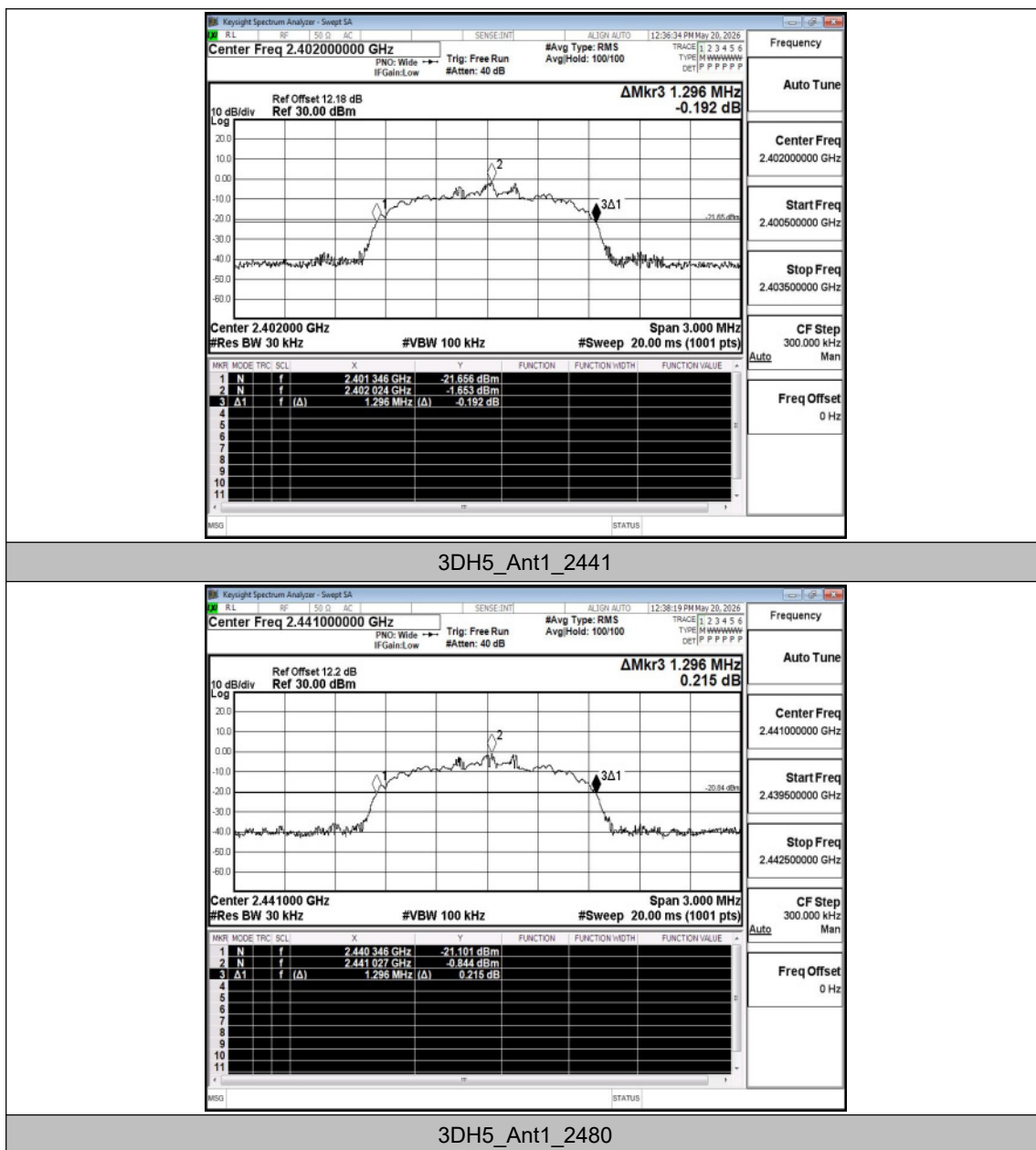
2DH5_Ant1_2441

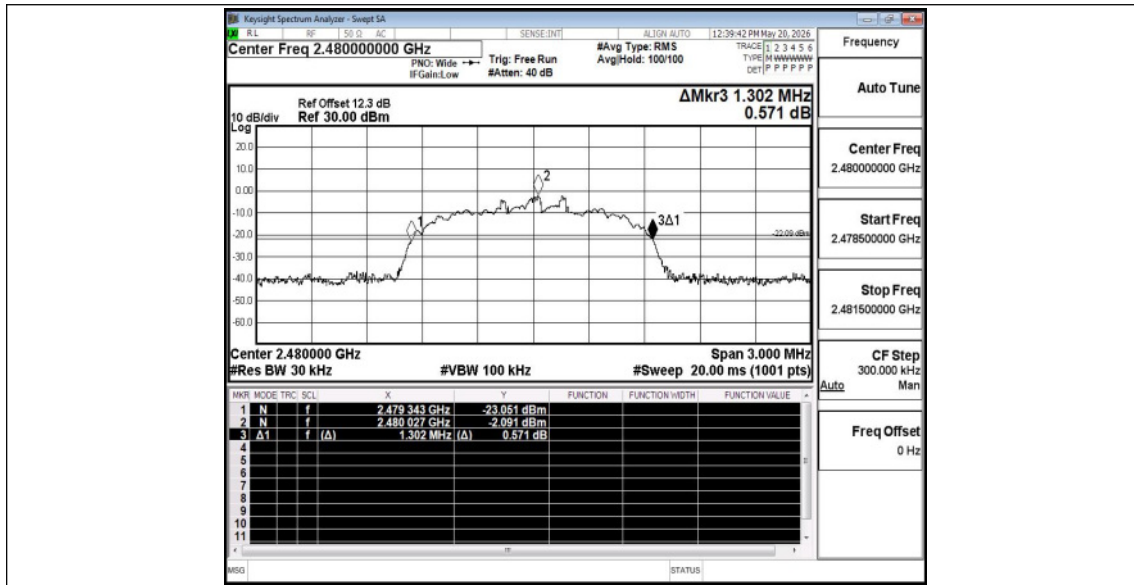


2DH5_Ant1_2480



3DH5_Ant1_2402





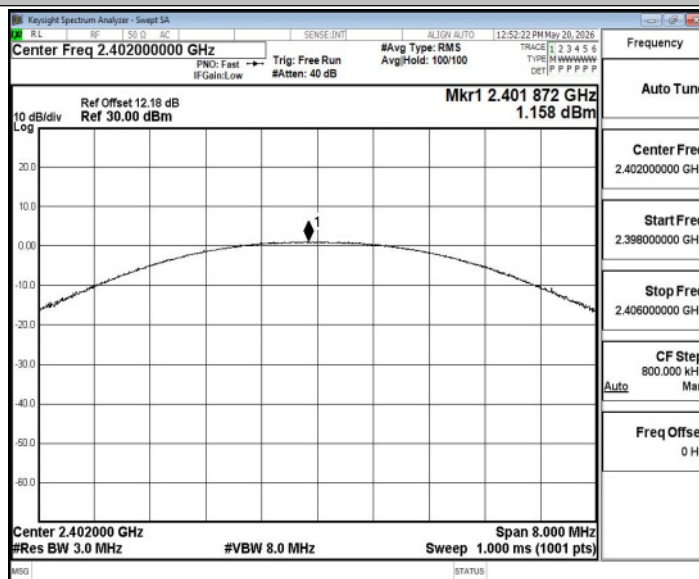
A.2 Maximum Peak conducted output power

Test Result Peak

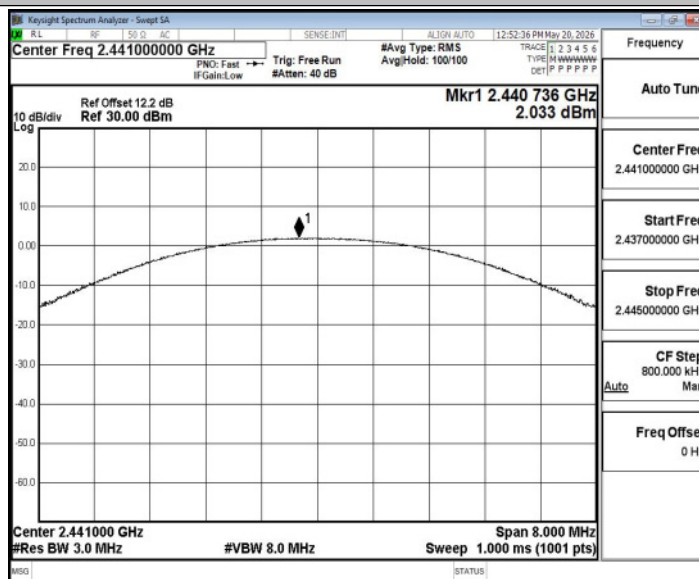
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.16	≤30	PASS
		2441	2.03	≤30	PASS
		2480	0.72	≤30	PASS
2DH5	Ant1	2402	2.54	≤30	PASS
		2441	3.32	≤30	PASS
		2480	1.96	≤30	PASS
3DH5	Ant1	2402	2.92	≤30	PASS
		2441	3.43	≤30	PASS
		2480	2.09	≤30	PASS

Test Graphs

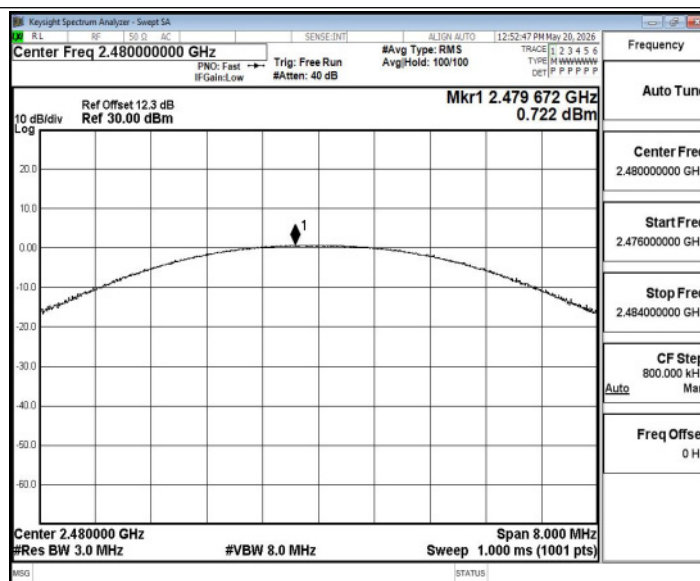
DH5_Ant1_2402



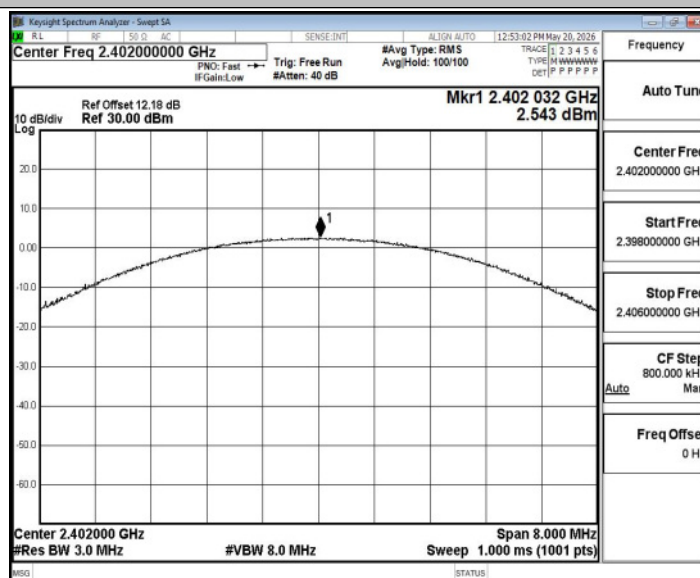
DH5_Ant1_2441



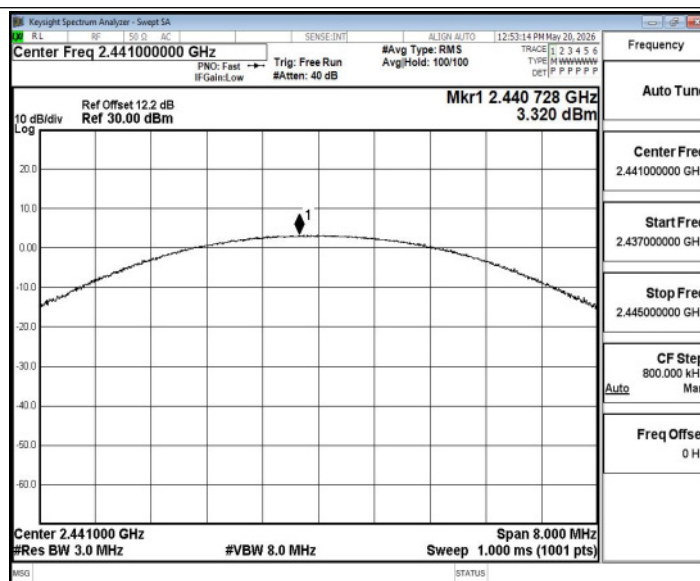
DH5_Ant1_2480



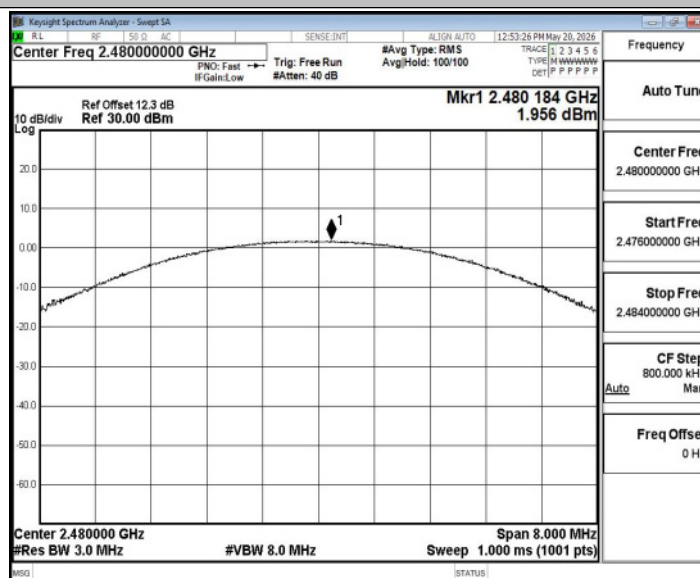
2DH5_Ant1_2402



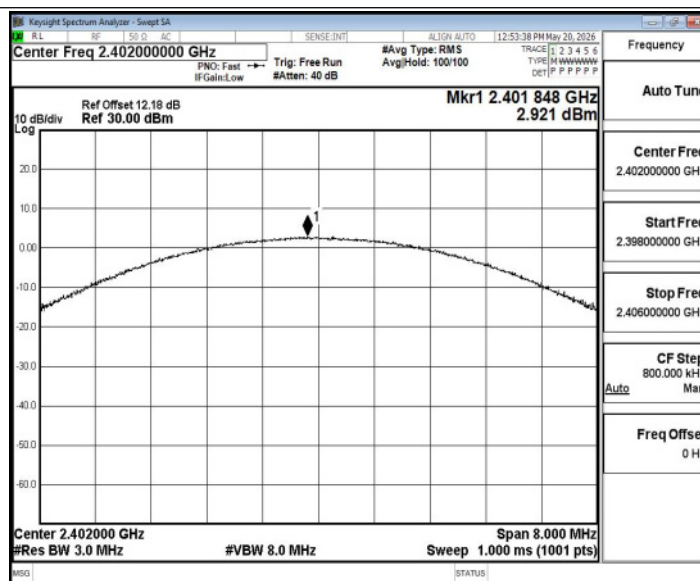
2DH5_Ant1_2441



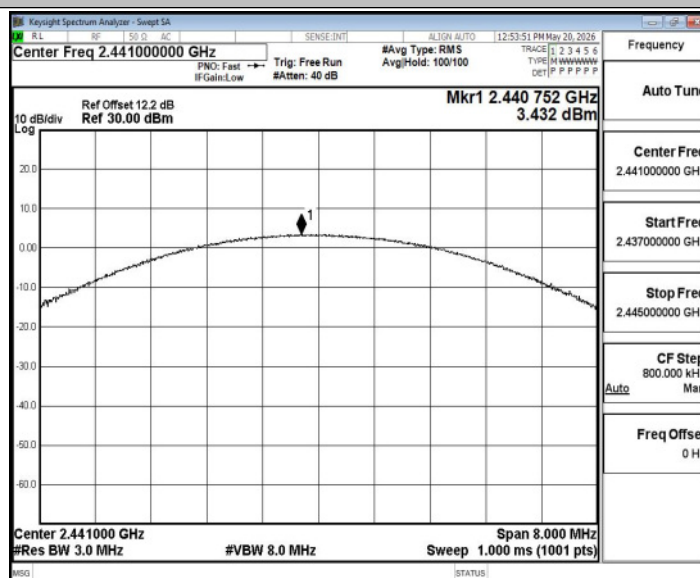
2DH5_Ant1_2480



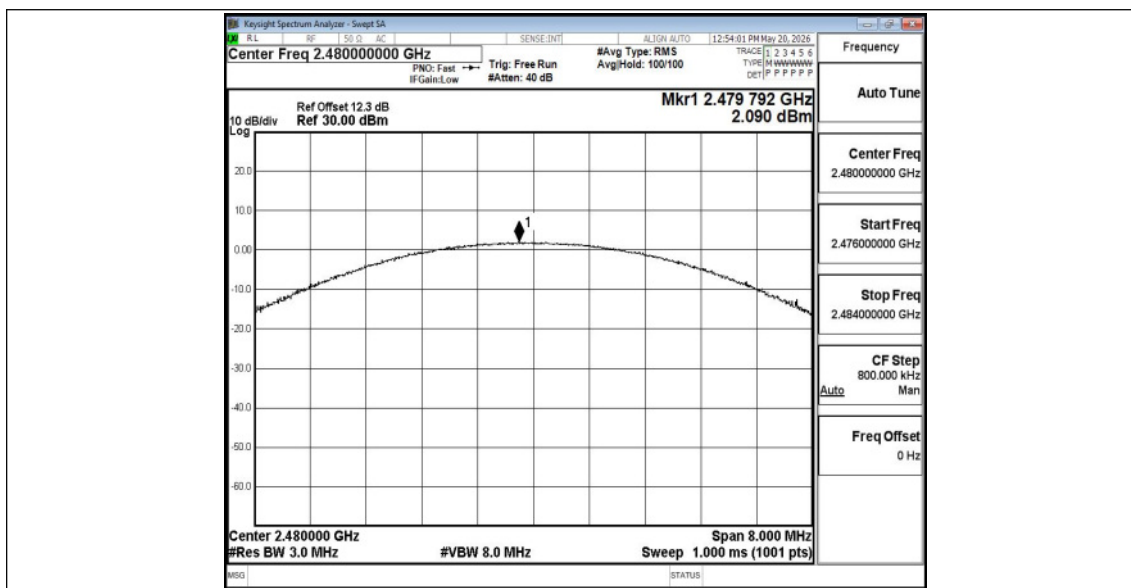
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



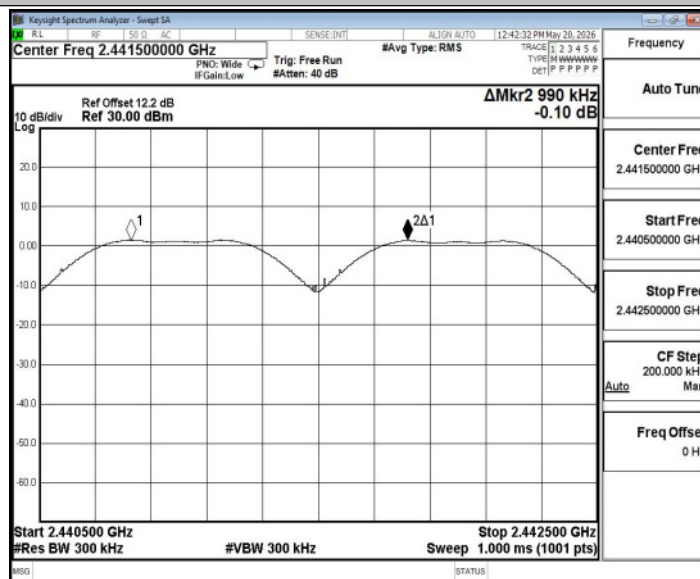
A.3 Carrier frequency separation

Test Result

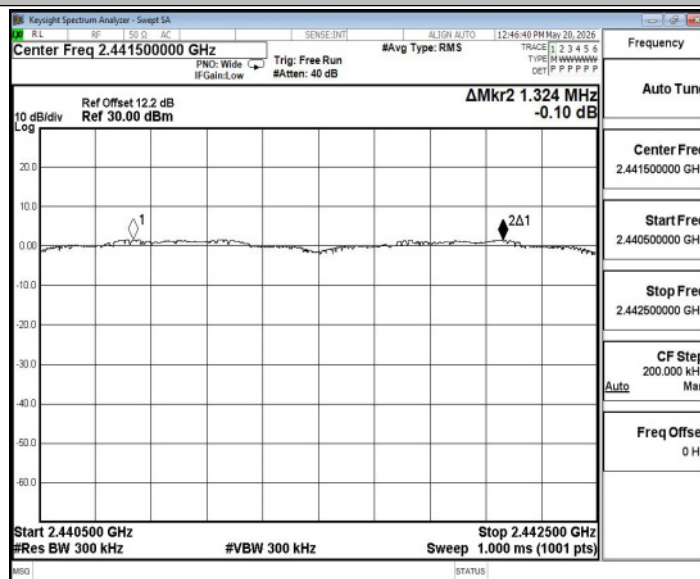
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥0.642	PASS
2DH5	Ant1	Hop	1.324	≥0.860	PASS
3DH5	Ant1	Hop	1.342	≥0.868	PASS

Test Graphs

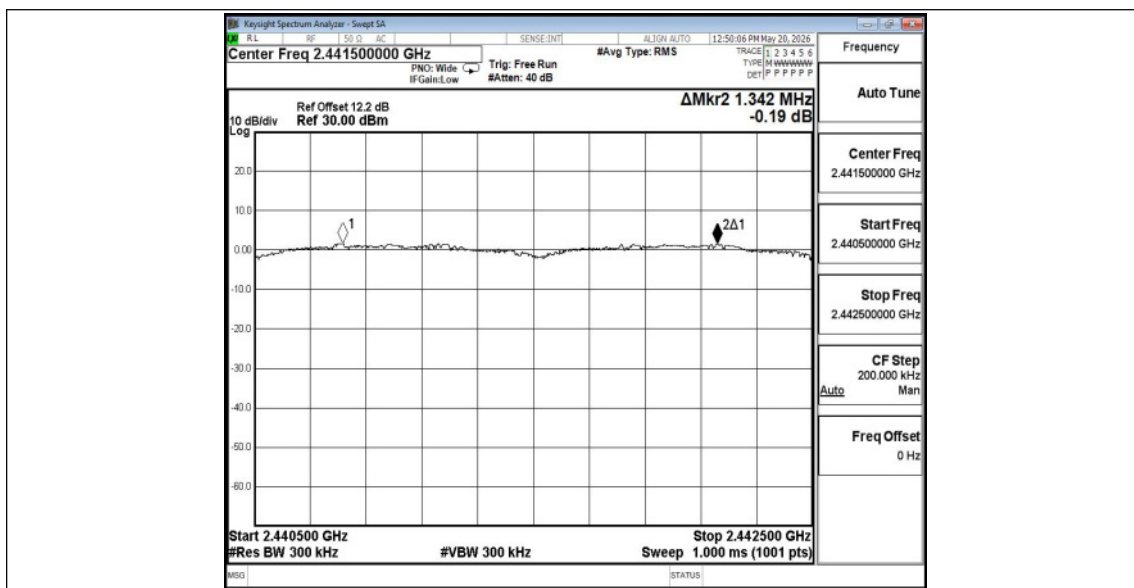
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

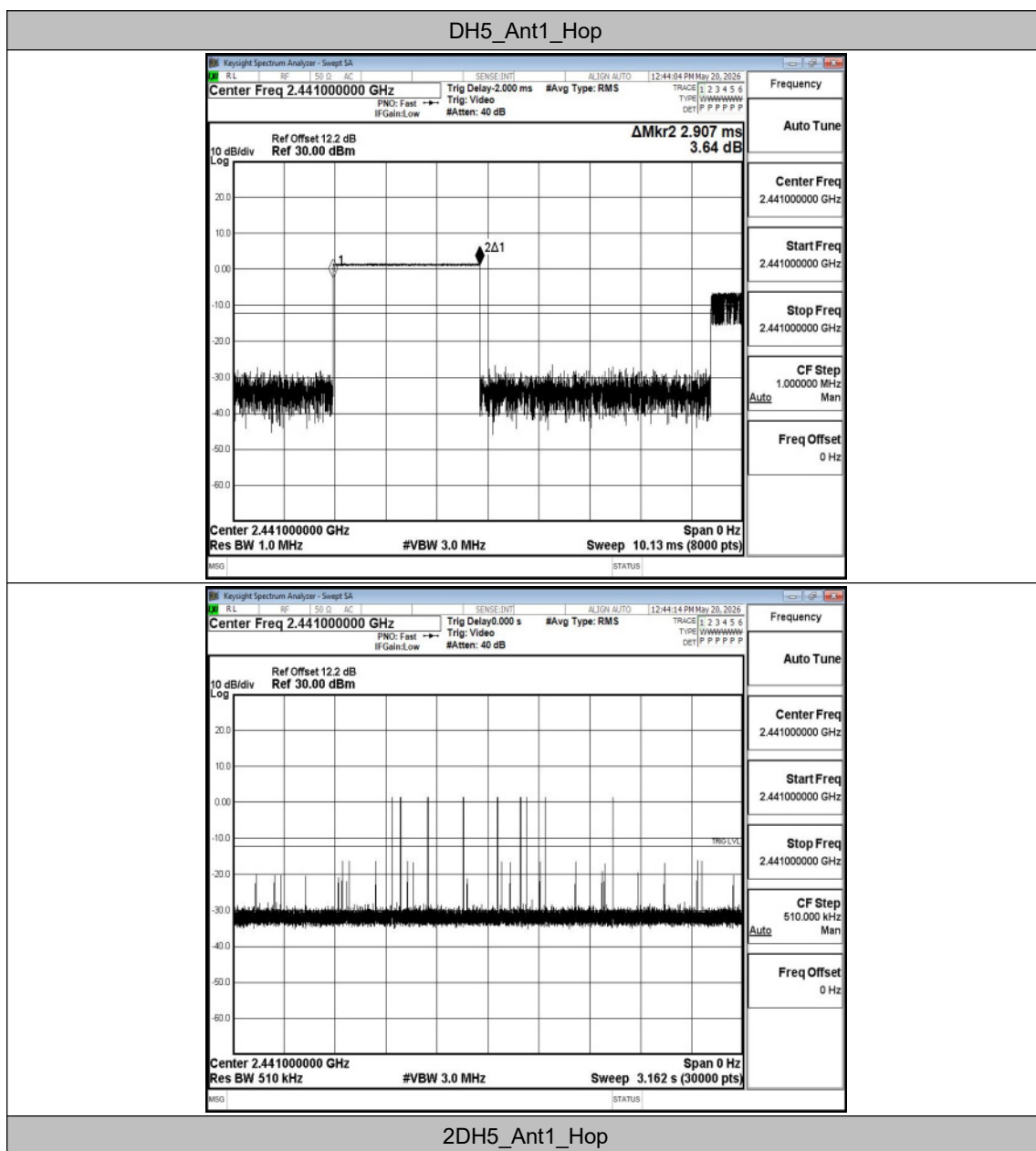


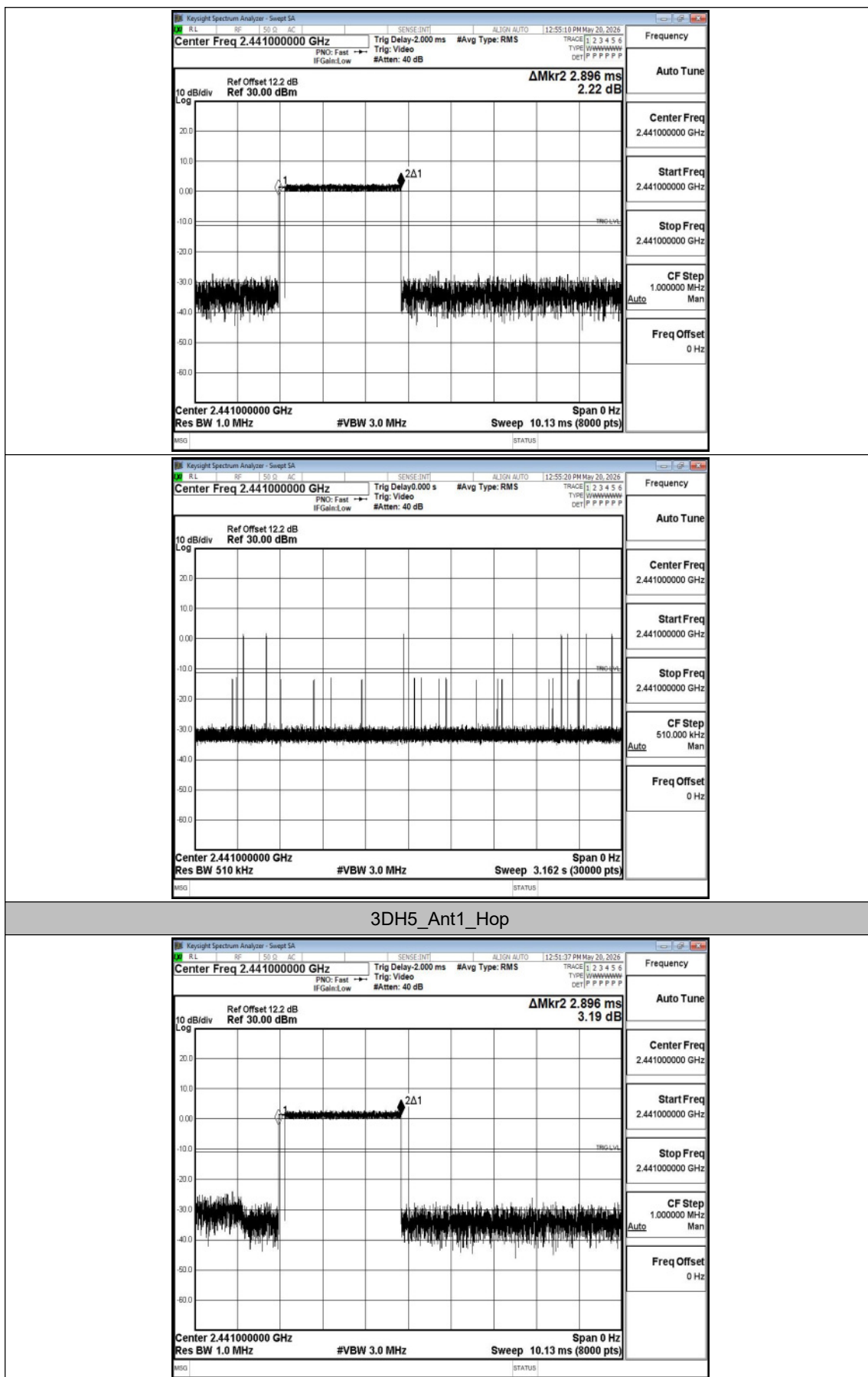
A.4 Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	100	0.291	≤0.4	PASS
2DH5	Ant1	Hop	2.896	90	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS

Test Graphs

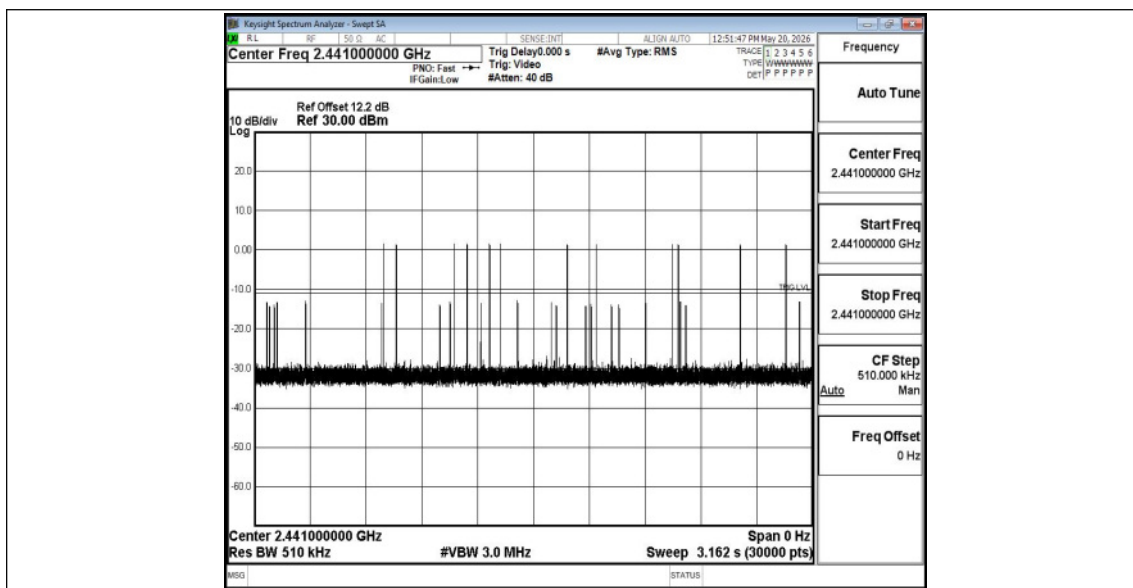




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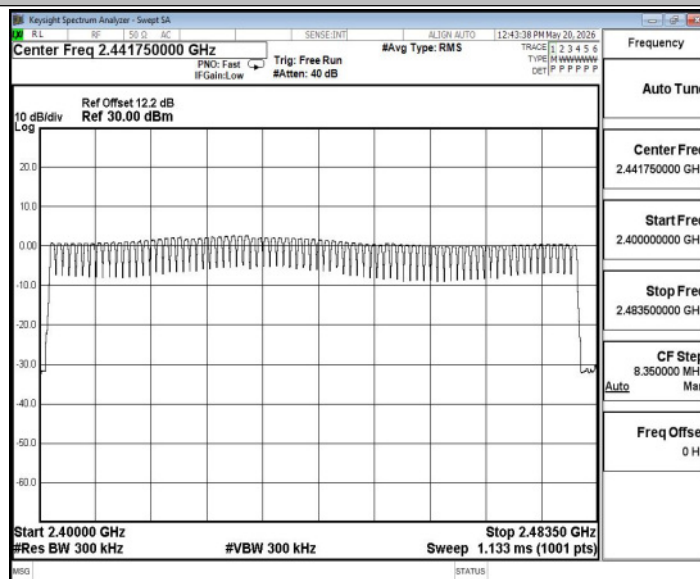
A.5 Number of hopping channels

Test Result

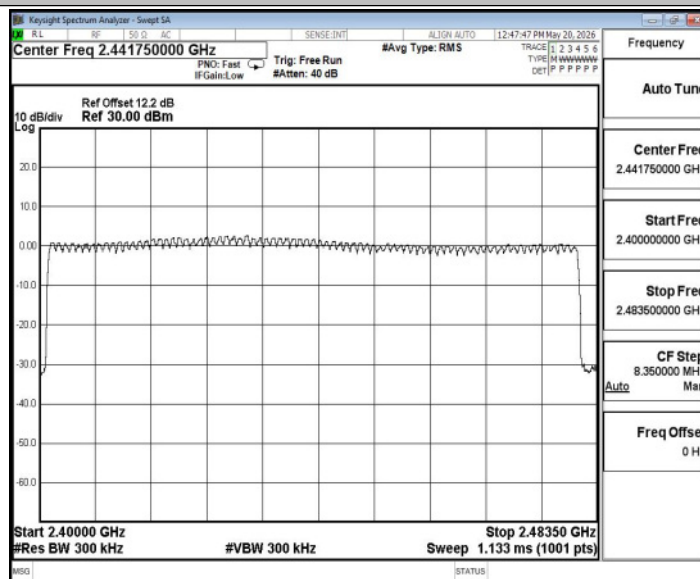
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

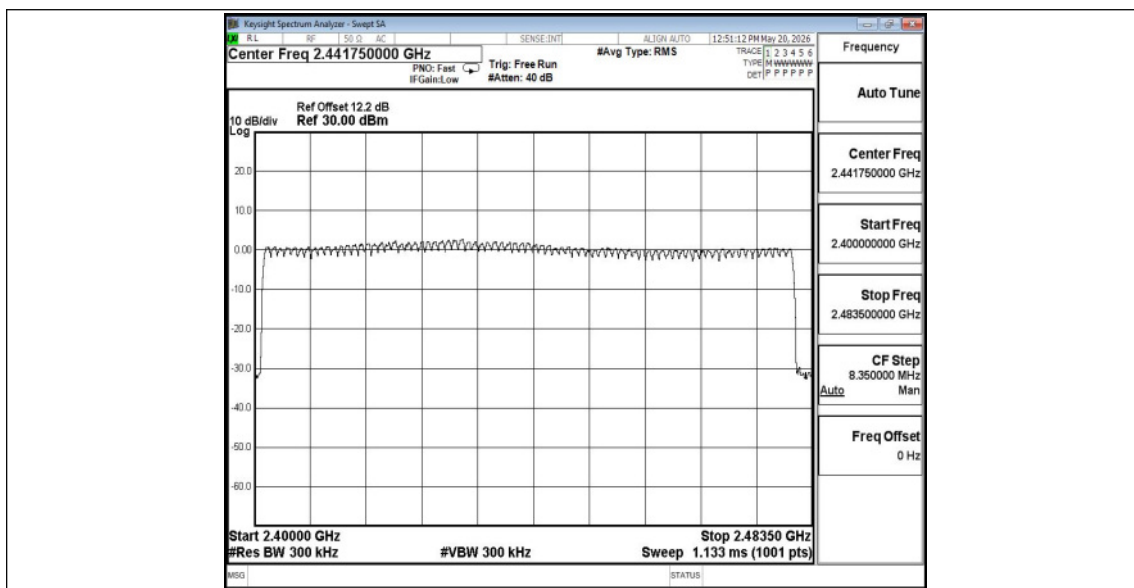
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



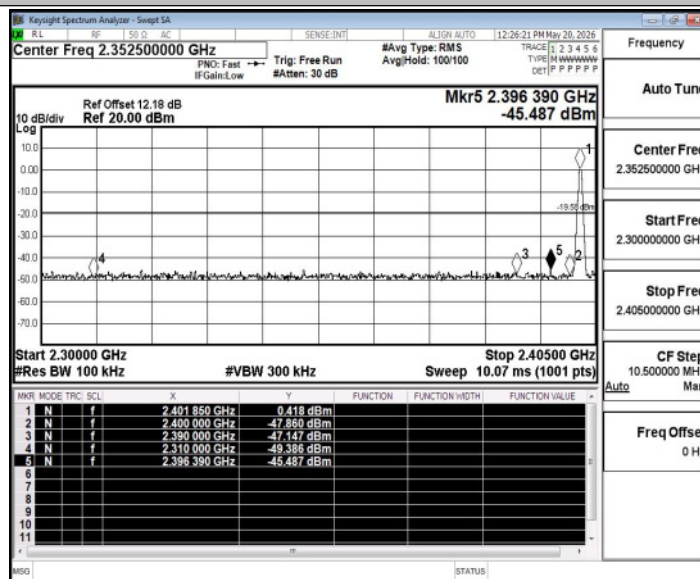
A.6 Band edge measurements

Test Result

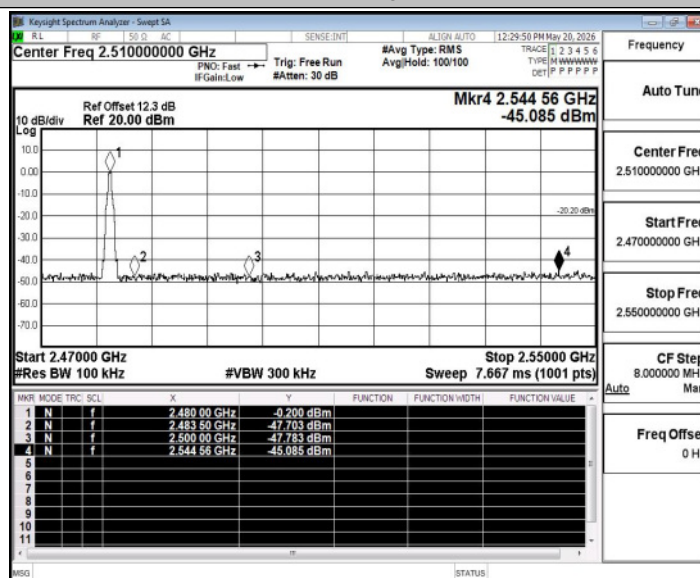
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.42	-45.49	≤ -19.58	PASS
		High	2480	-0.20	-45.09	≤ -20.2	PASS
		Low	Hop_2402	-1.87	-45.08	≤ -21.87	PASS
		High	Hop_2480	-0.37	-44.75	≤ -20.37	PASS
2DH5	Ant1	Low	2402	0.00	-45.22	≤ -20	PASS
		High	2480	-0.55	-44.81	≤ -20.55	PASS
		Low	Hop_2402	-3.57	-45.62	≤ -23.57	PASS
		High	Hop_2480	-2.38	-45.45	≤ -22.38	PASS
3DH5	Ant1	Low	2402	-1.42	-45.55	≤ -21.42	PASS
		High	2480	-0.42	-45.21	≤ -20.42	PASS
		Low	Hop_2402	-2.03	-46.04	≤ -22.03	PASS
		High	Hop_2480	-0.68	-44.95	≤ -20.68	PASS

Test Graphs

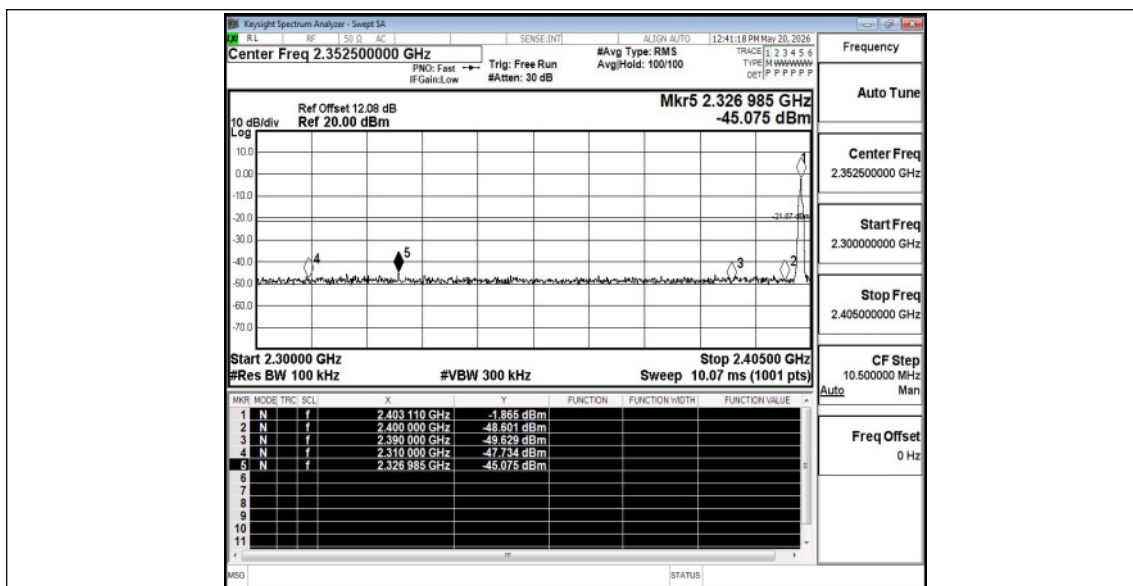
DH5_Ant1_Low_2402



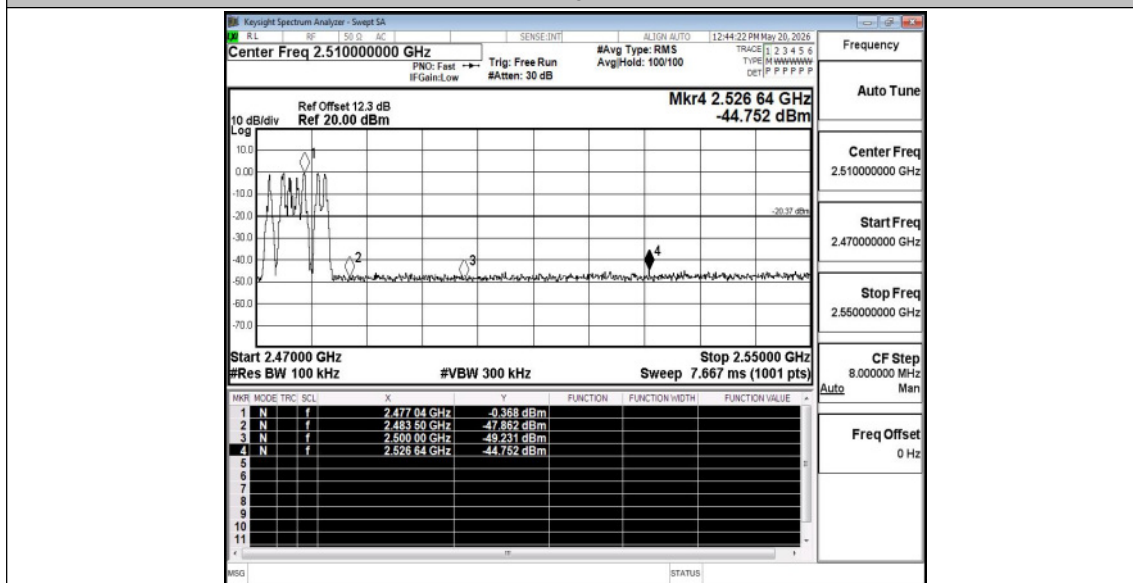
DH5_Ant1_High_2480



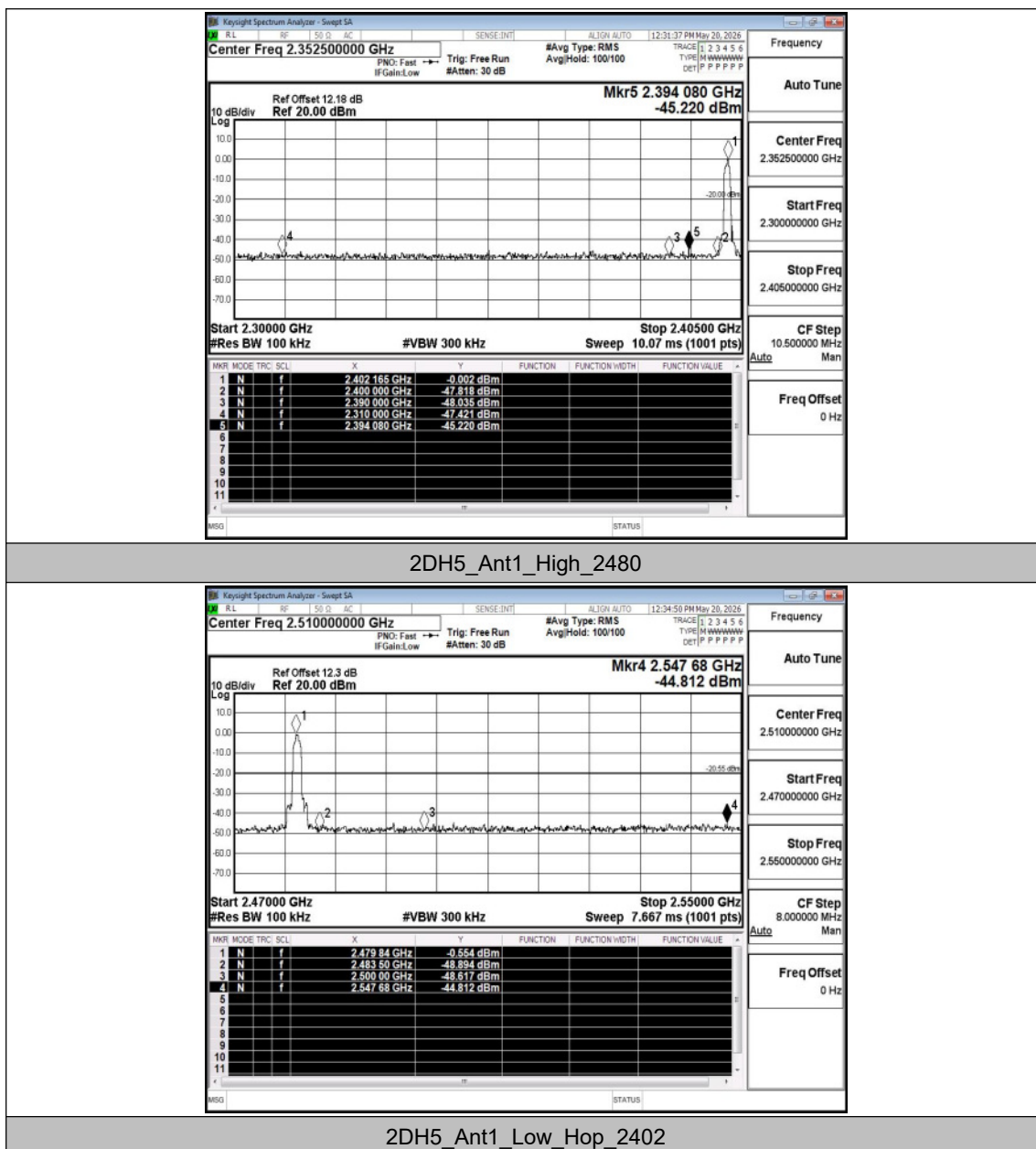
DH5_Ant1_Low_Hop_2402

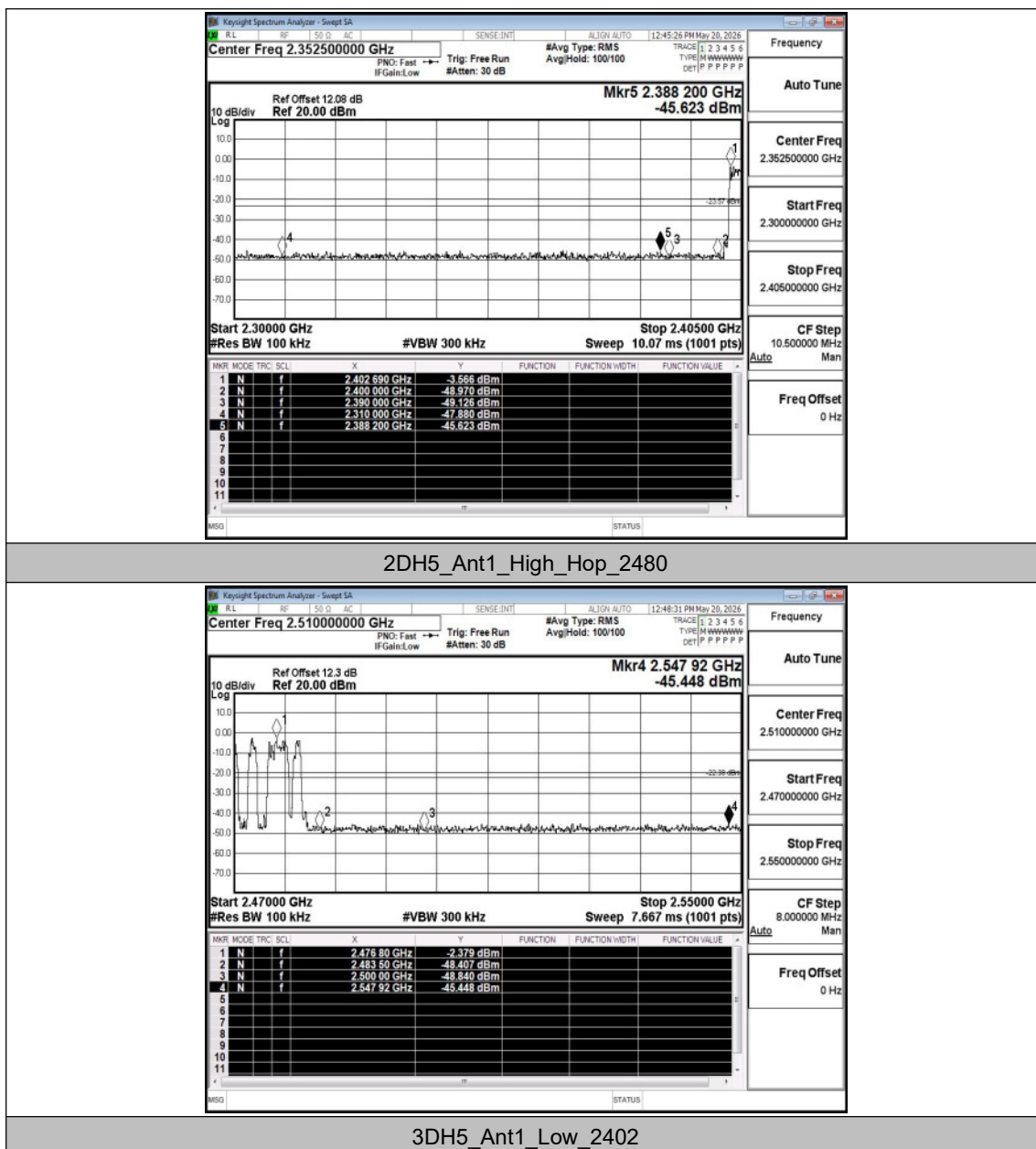


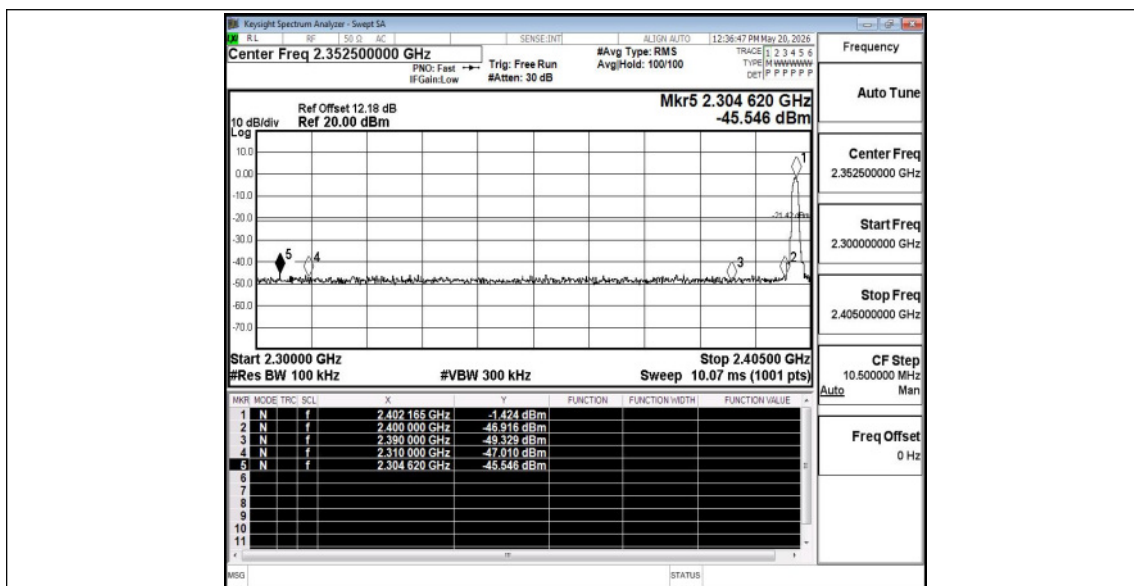
DH5_Ant1_High_Hop_2480



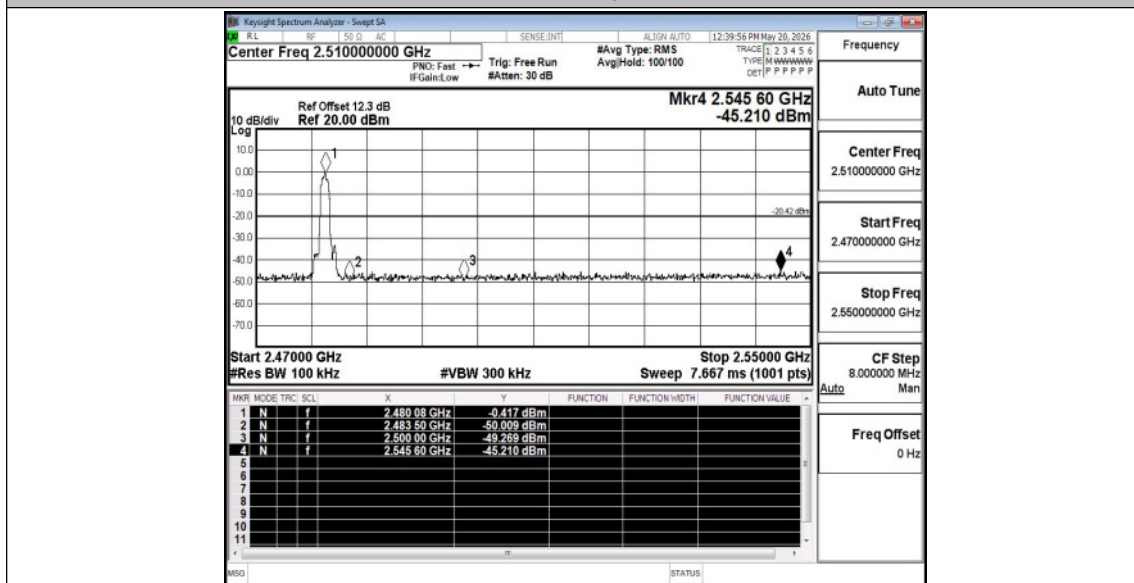
2DH5_Ant1_Low_2402



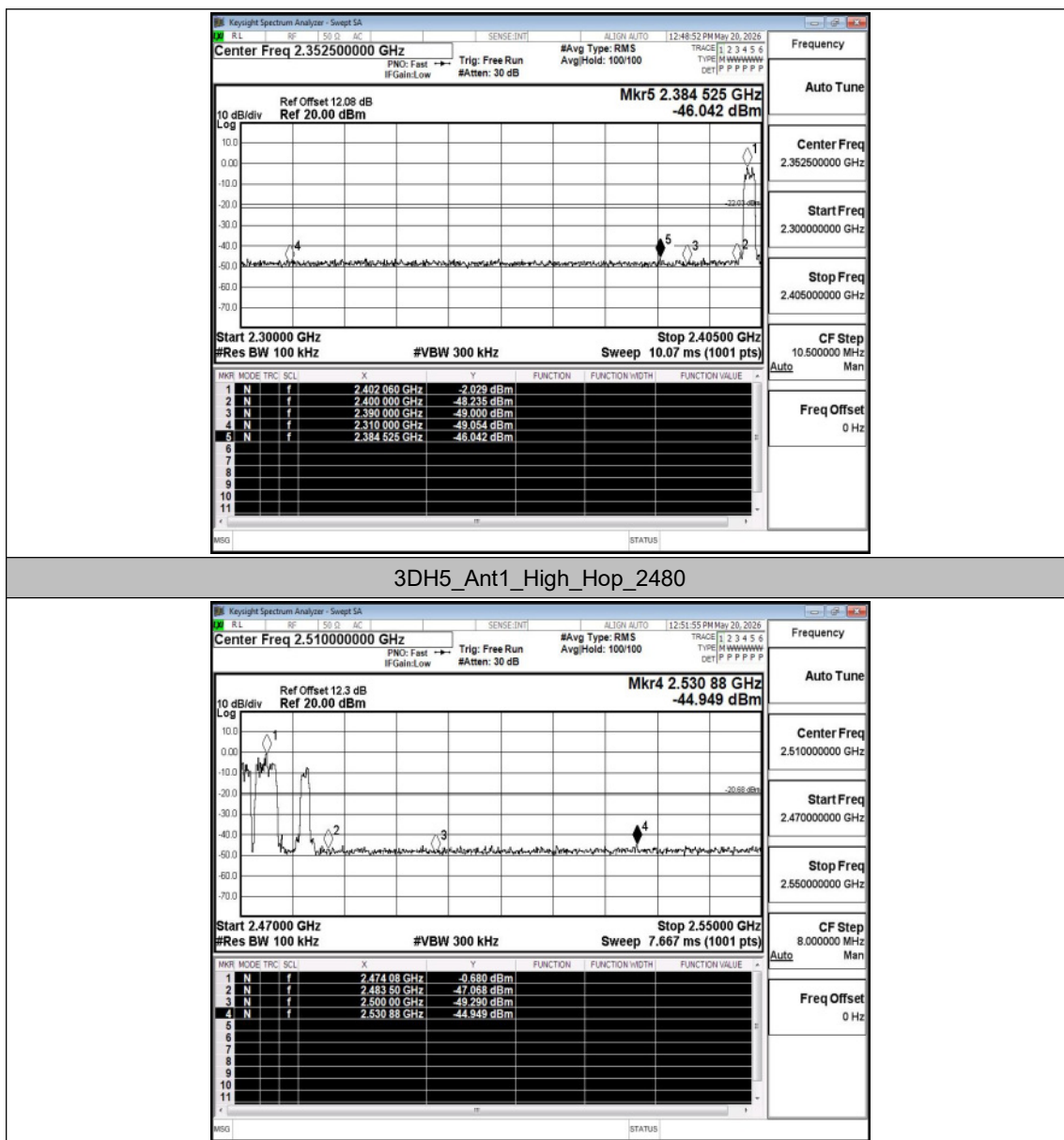




3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



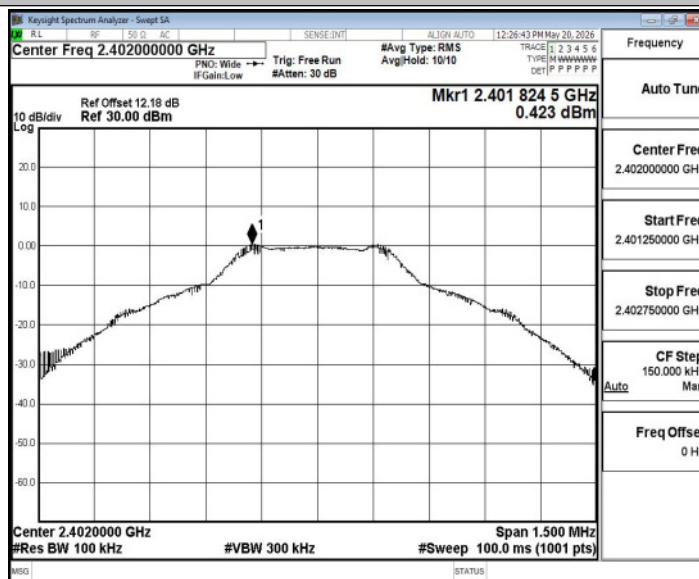
A.7 Conducted Spurious Emission

Test Result

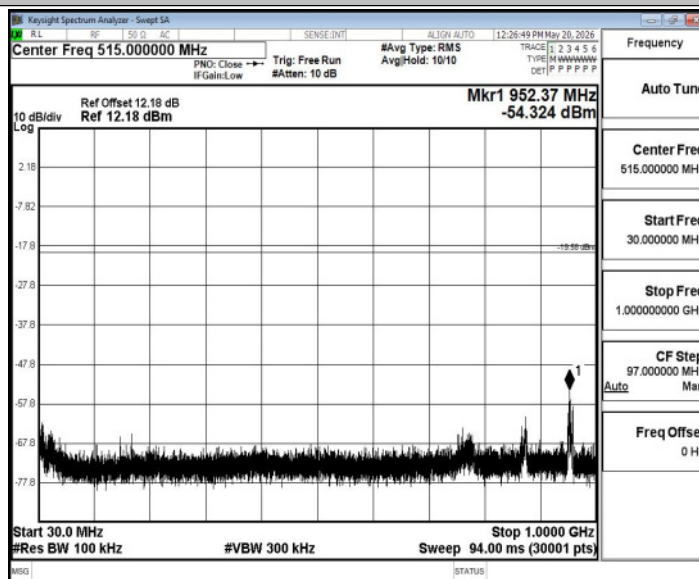
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-54.32	≤-19.58	PASS
			1000~26500	0.42	-54.61	≤-19.58	PASS
		2441	Reference	1.30	1.30	---	PASS
			30~1000	1.30	-59.86	≤-18.7	PASS
			1000~26500	1.30	-55.11	≤-18.7	PASS
		2480	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-57.63	≤-19.95	PASS
			1000~26500	0.05	-55.14	≤-19.95	PASS
2DH5	Ant1	2402	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-54.94	≤-19.66	PASS
			1000~26500	0.34	-55.1	≤-19.66	PASS
		2441	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-60.53	≤-18.84	PASS
			1000~26500	1.16	-54.25	≤-18.84	PASS
		2480	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-56.11	≤-20.05	PASS
			1000~26500	-0.05	-54.55	≤-20.05	PASS
3DH5	Ant1	2402	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-54.6	≤-19.53	PASS
			1000~26500	0.47	-54.86	≤-19.53	PASS
		2441	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-56.23	≤-18.61	PASS
			1000~26500	1.39	-54.94	≤-18.61	PASS
		2480	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-59.04	≤-19.89	PASS
			1000~26500	0.11	-54.82	≤-19.89	PASS

Test Graphs

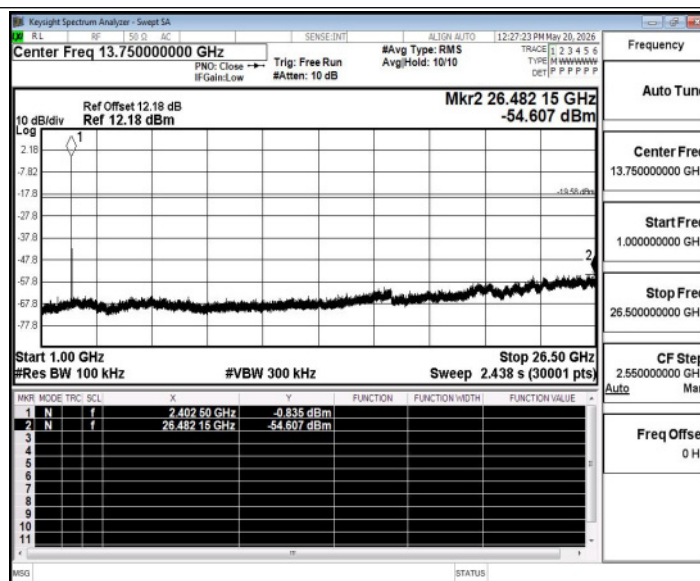
DH5_Ant1_2402_0~Reference



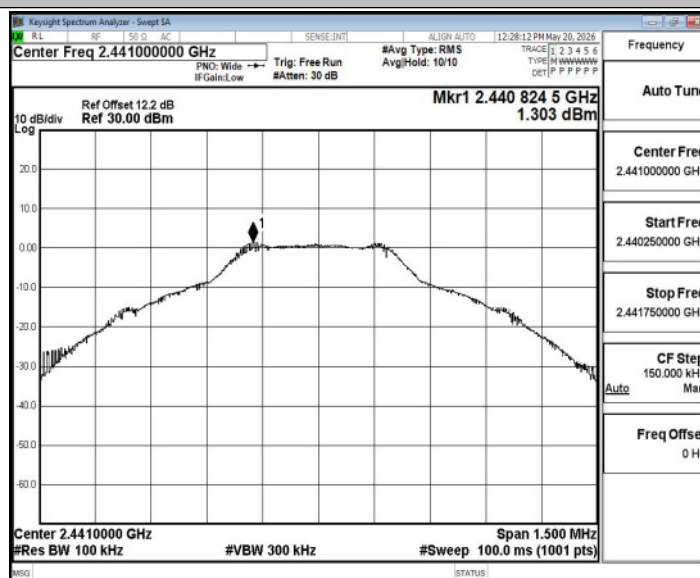
DH5_Ant1_2402_30~1000



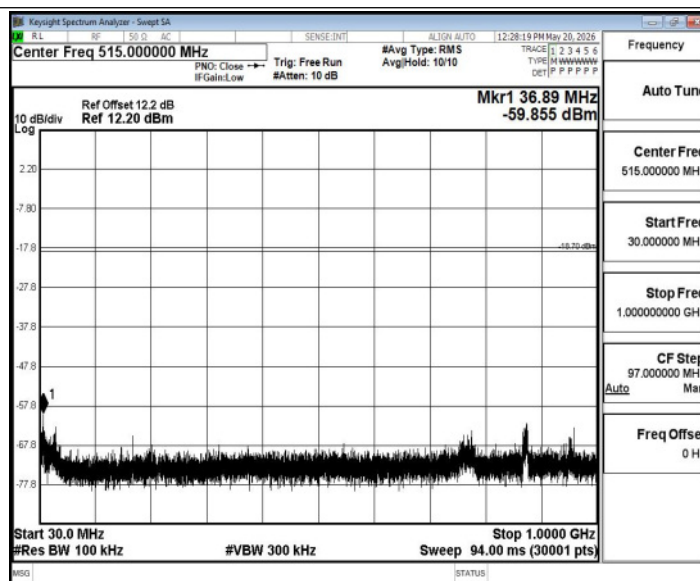
DH5_Ant1_2402_1000~26500



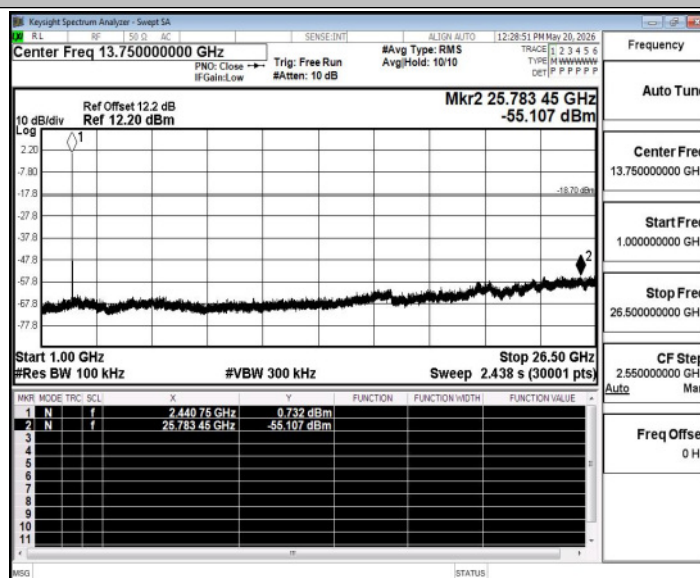
DH5_Ant1_2441_0~Reference



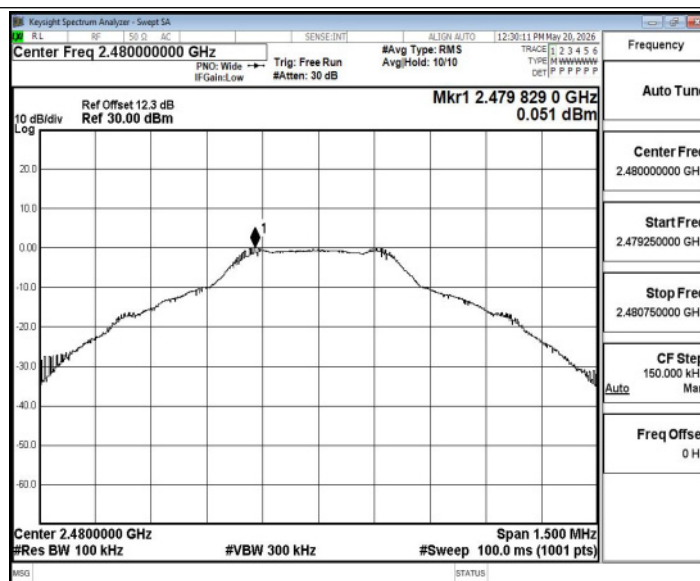
DH5_Ant1_2441_30~1000



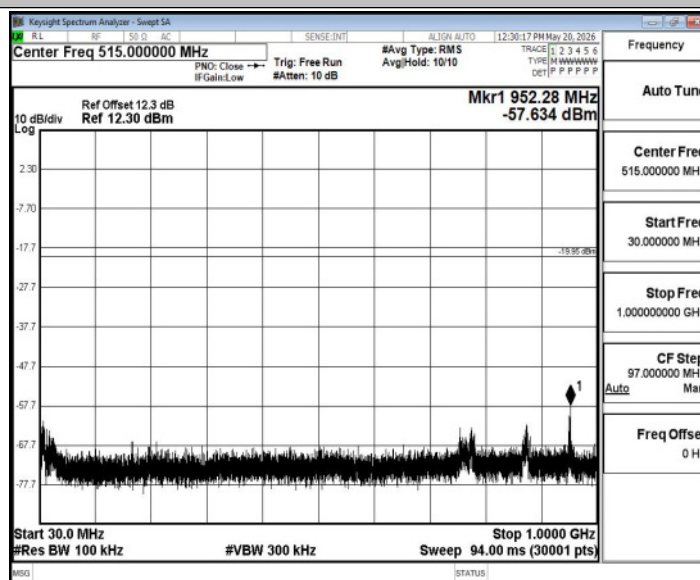
DH5_Ant1_2441_1000~26500



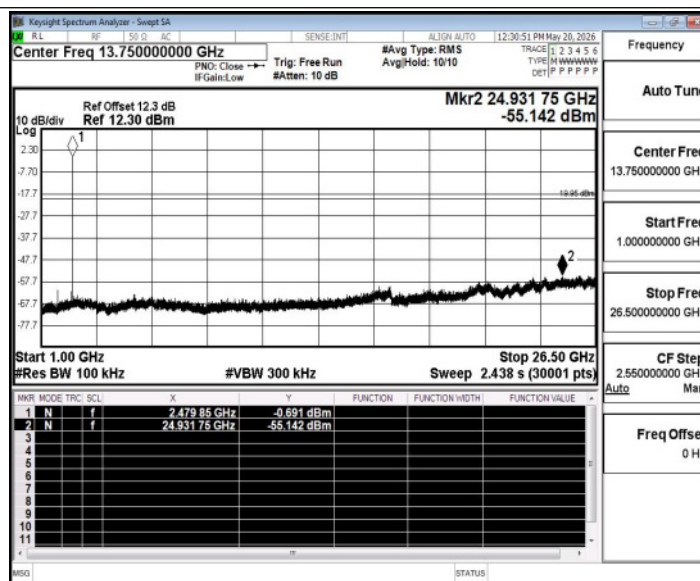
DH5_Ant1_2480_0~Reference



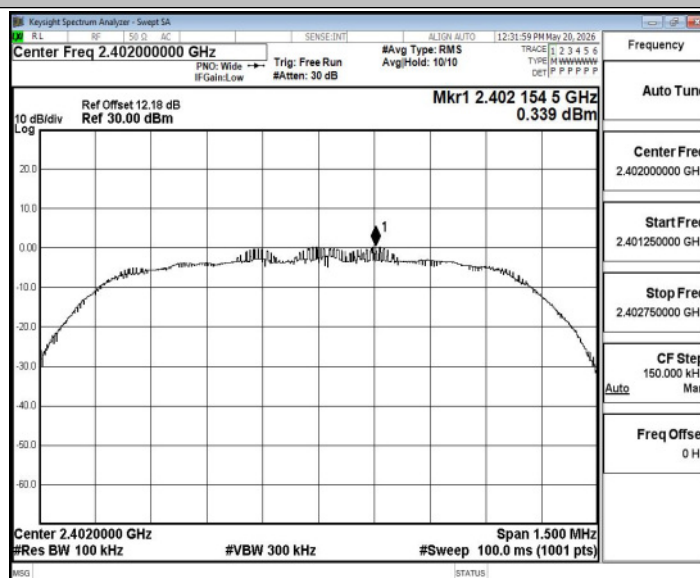
DH5_Ant1_2480_30~1000



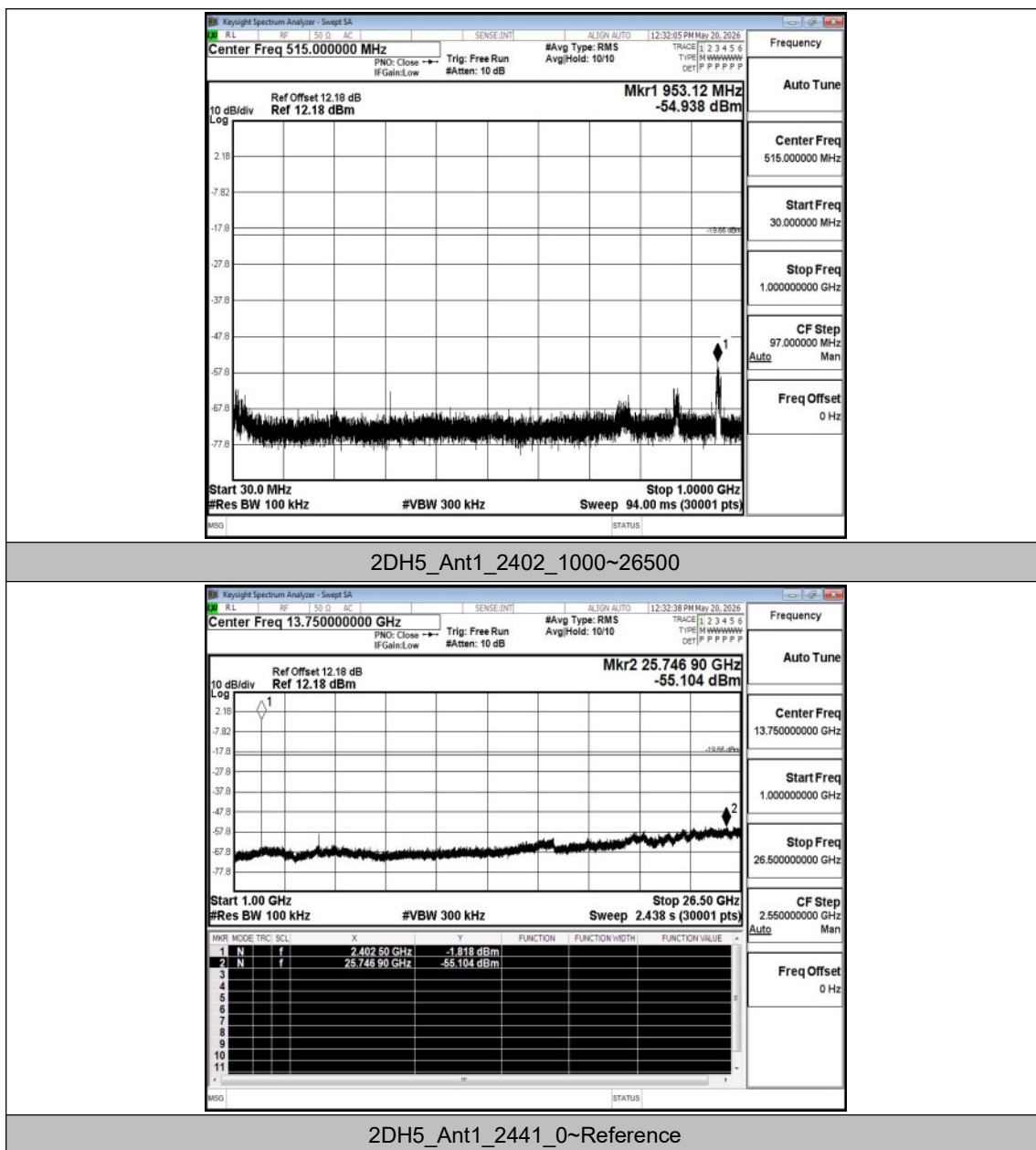
DH5_Ant1_2480_1000~26500

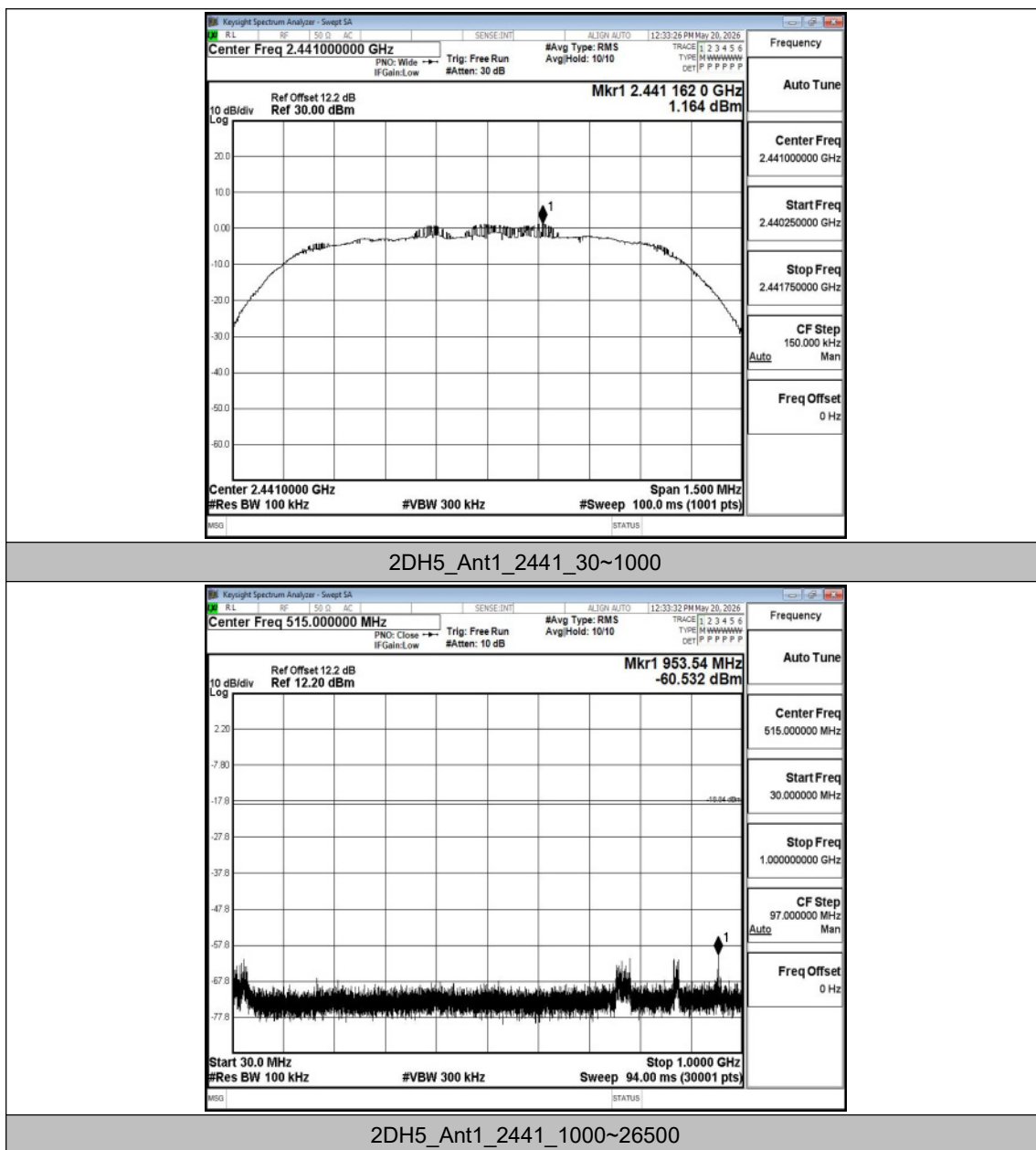


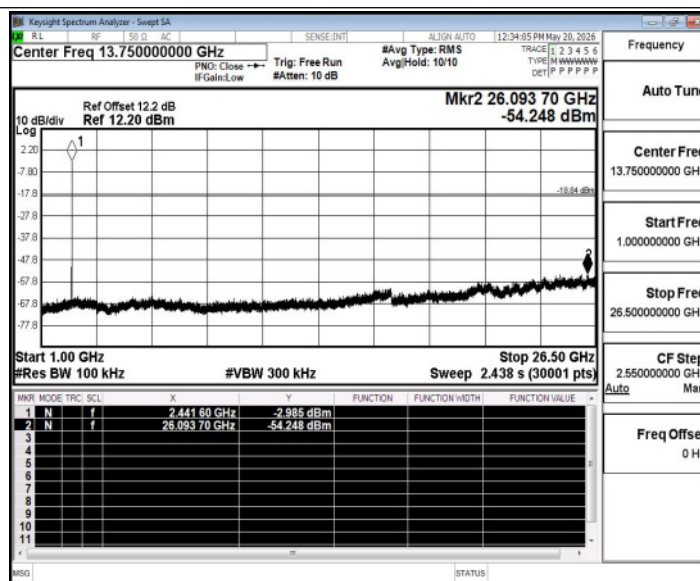
2DH5_Ant1_2402_0~Reference



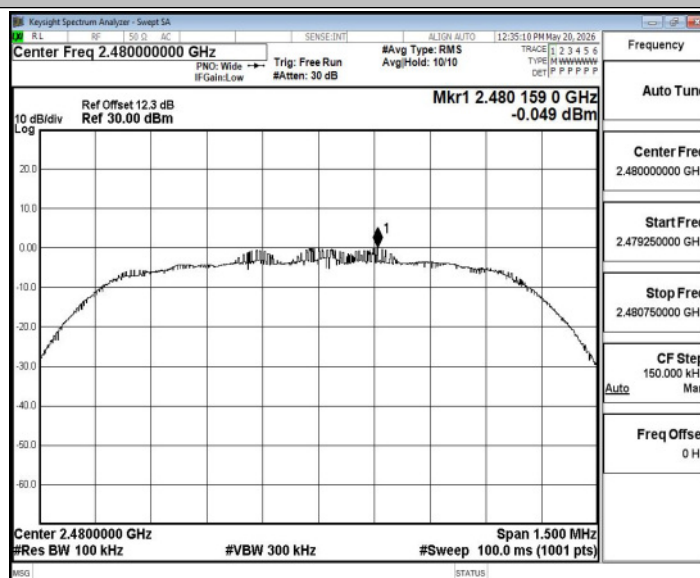
2DH5_Ant1_2402_30~1000



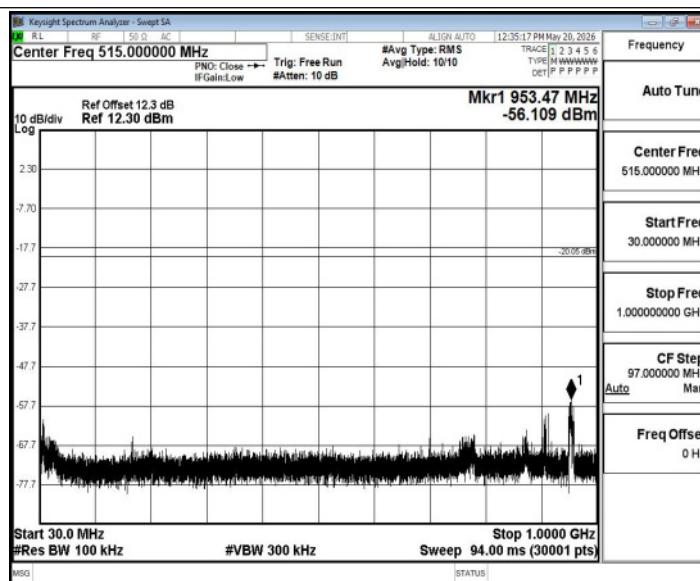




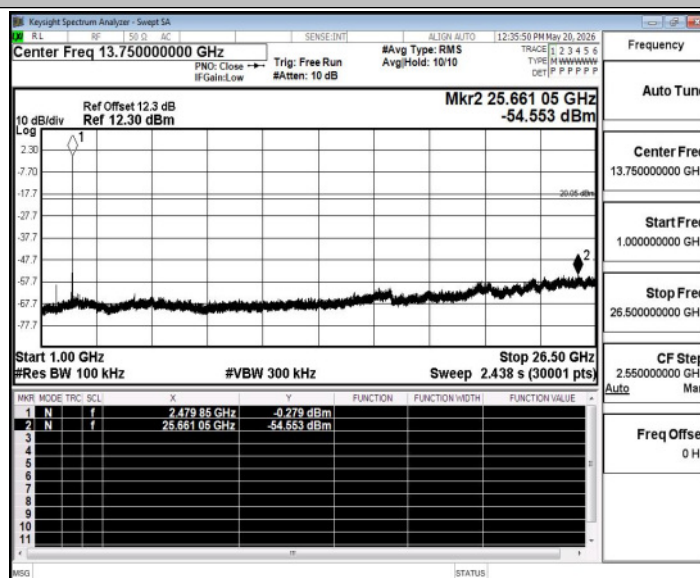
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

