

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Touch Screen Display

Test Model: CP70

Environmental Conditions

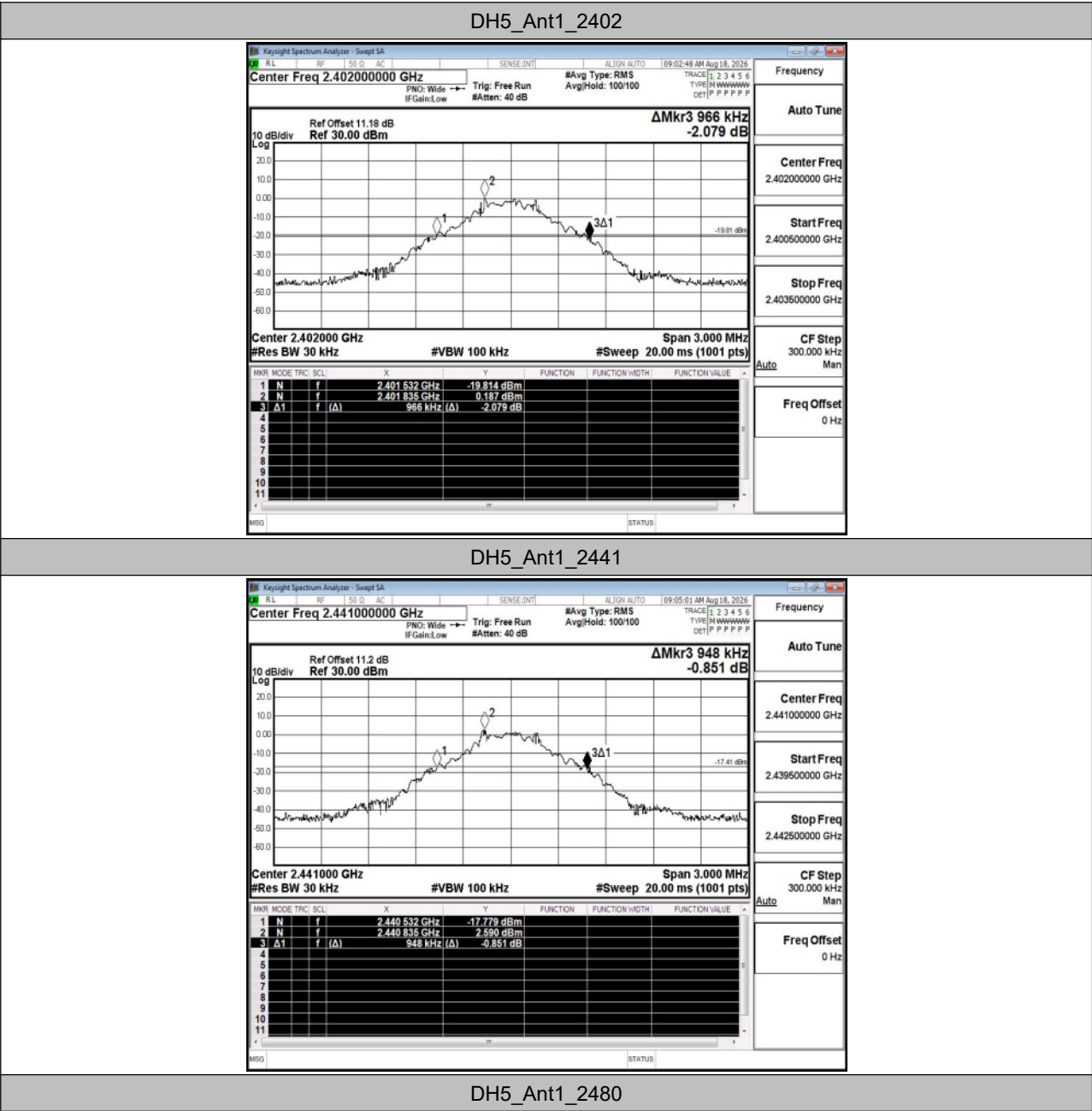
Temperature:	24.8°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

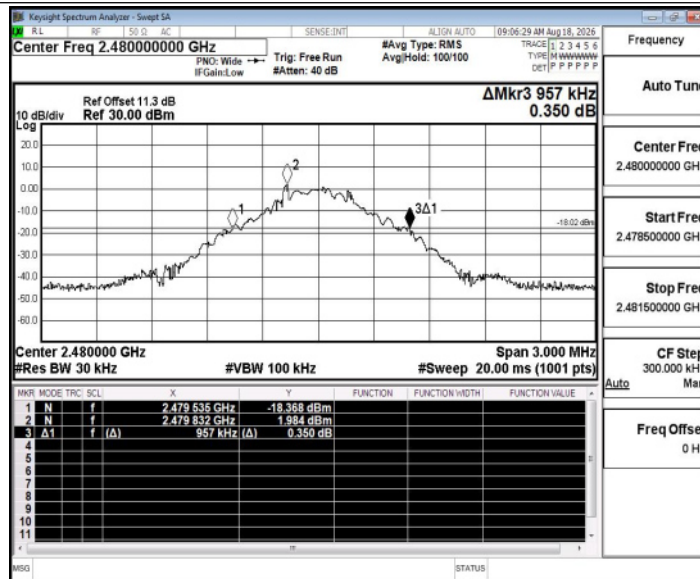
A.1 20dB Emission Bandwidth

Test Result

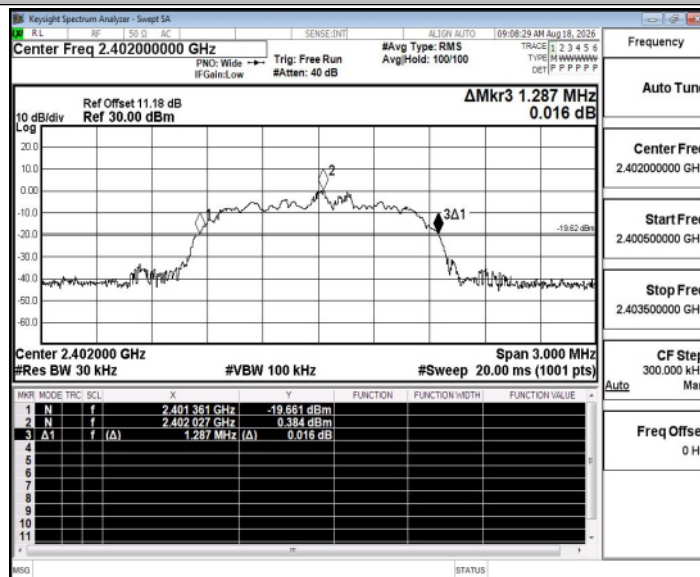
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.532	2402.498	---	---
		2441	0.948	2440.532	2441.480	---	---
		2480	0.957	2479.535	2480.492	---	---
2DH5	Ant1	2402	1.287	2401.361	2402.648	---	---
		2441	1.284	2440.361	2441.645	---	---
		2480	1.287	2479.361	2480.648	---	---
3DH5	Ant1	2402	1.302	2401.343	2402.645	---	---
		2441	1.305	2440.343	2441.648	---	---
		2480	1.302	2479.343	2480.645	---	---

Test Graphs

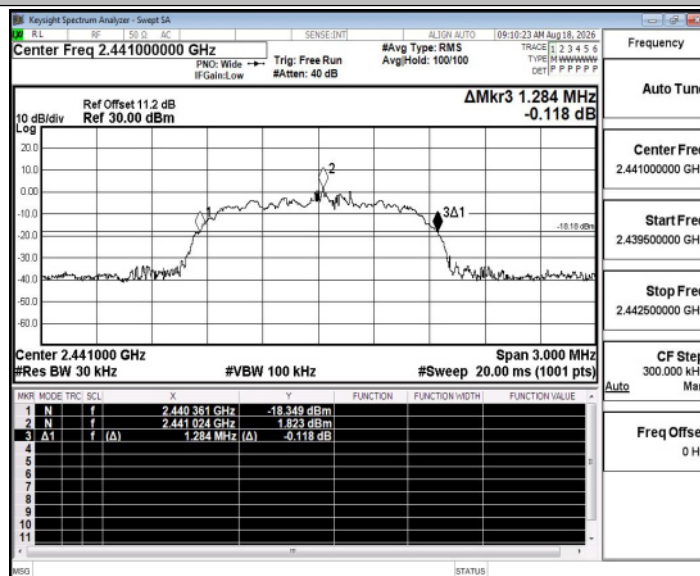


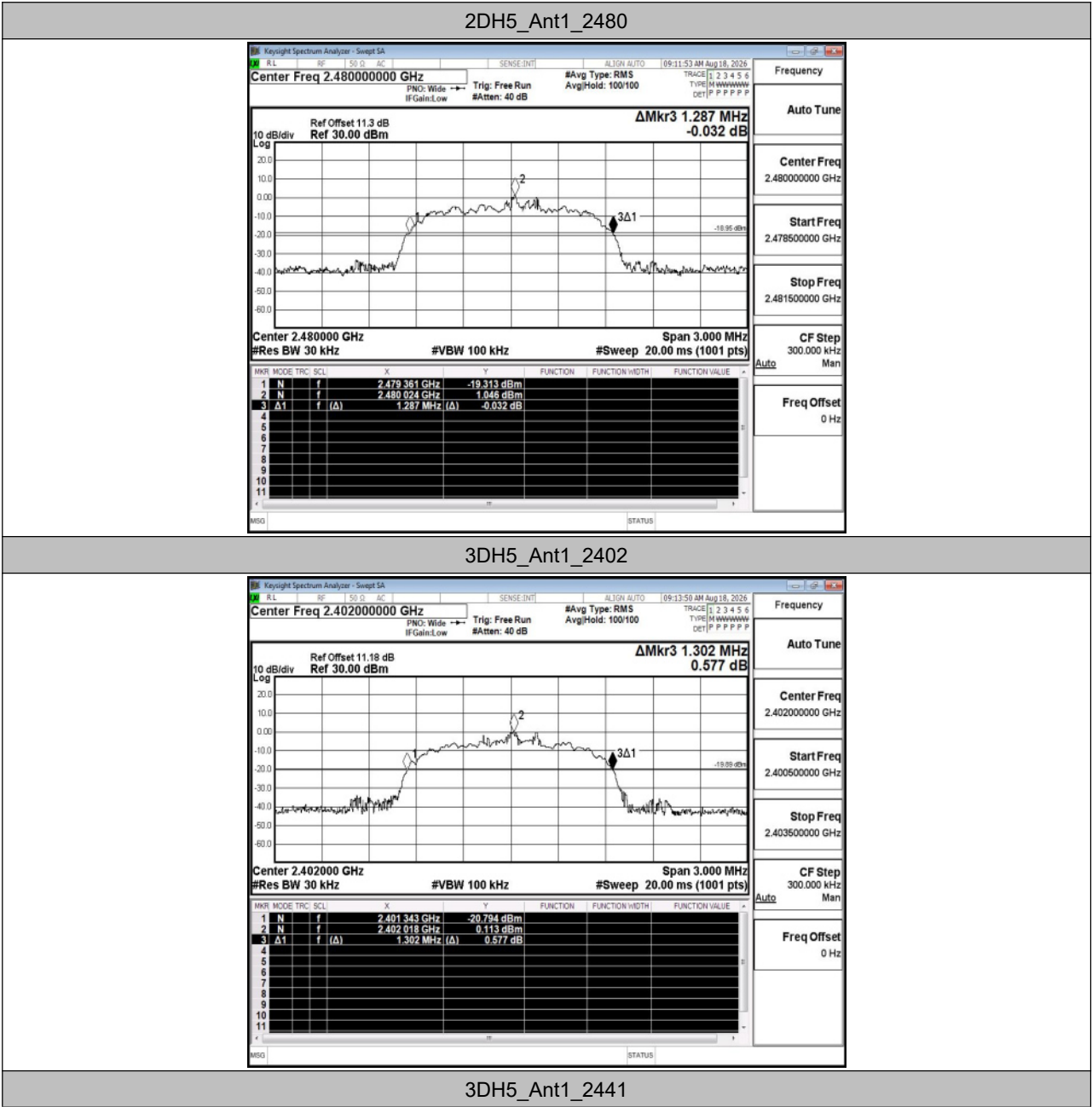


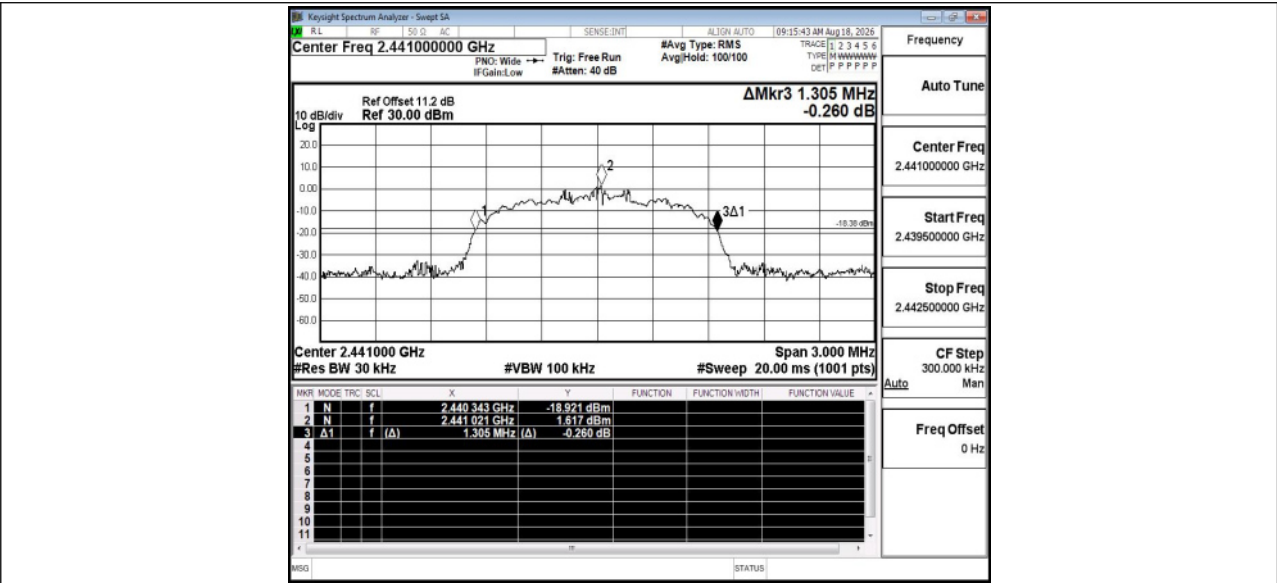
2DH5_Ant1_2402



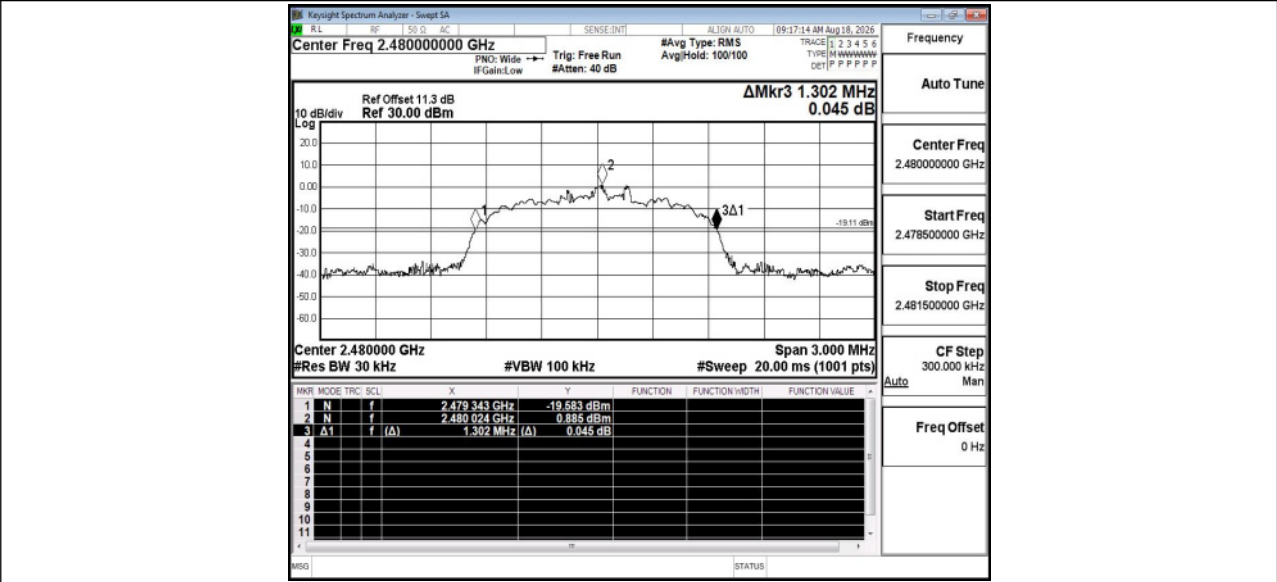
2DH5_Ant1_2441







3DH5_Ant1_2480

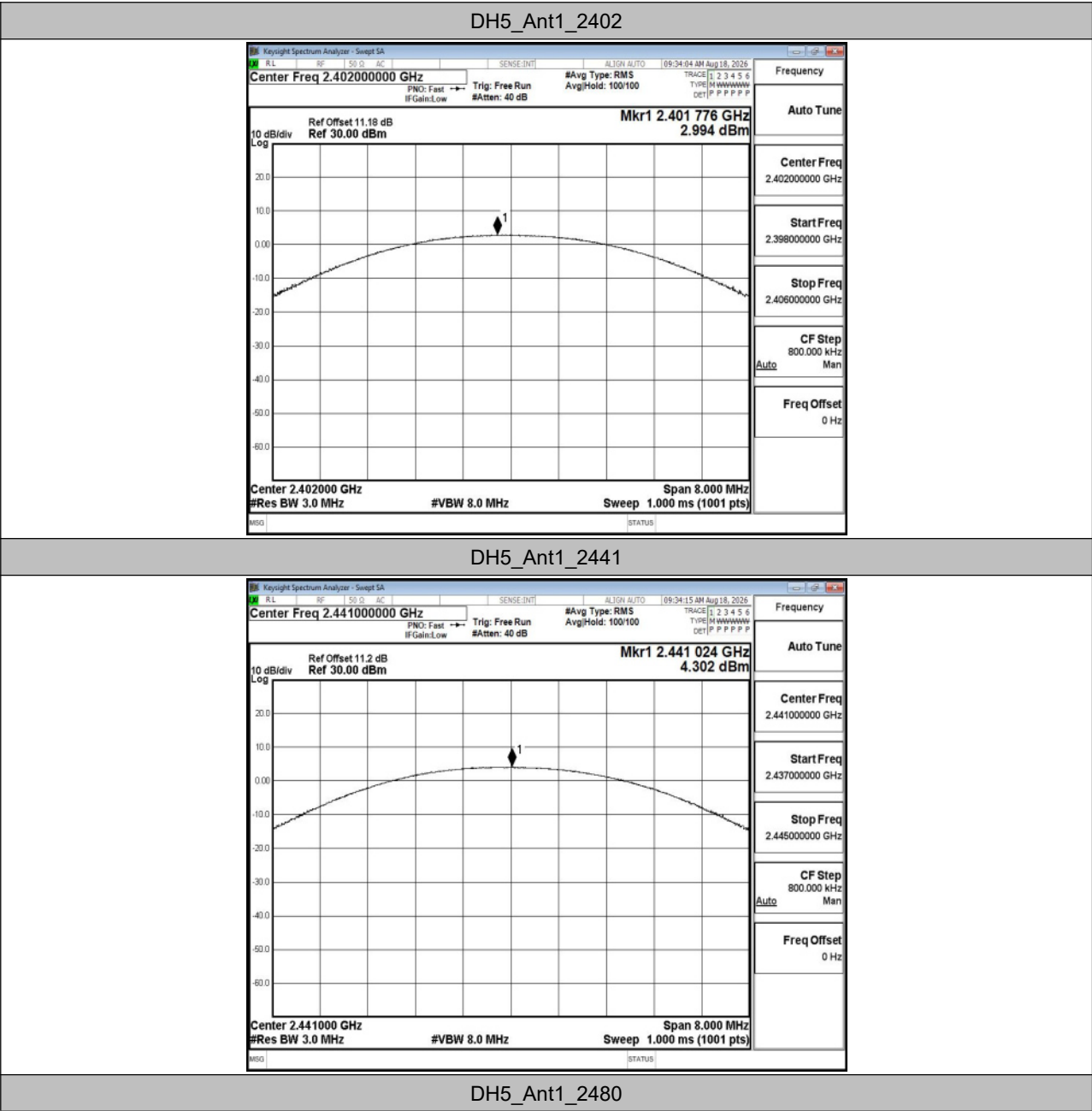


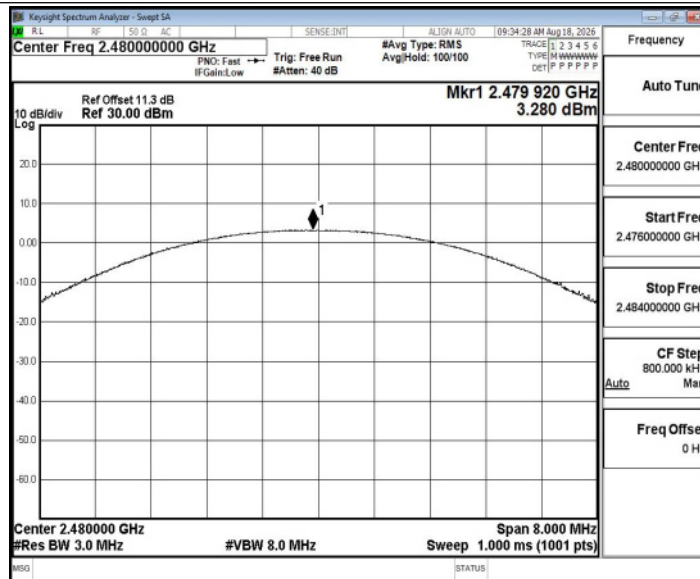
A.2 Maximum Peak conducted output power

Test Result Peak

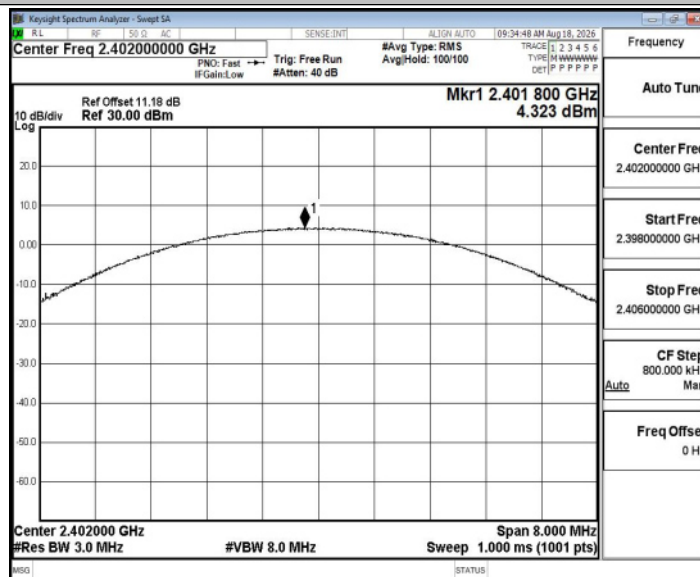
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.99	≤30	PASS
		2441	4.30	≤30	PASS
		2480	3.28	≤30	PASS
2DH5	Ant1	2402	4.32	≤20.97	PASS
		2441	5.29	≤20.97	PASS
		2480	4.30	≤20.97	PASS
3DH5	Ant1	2402	4.31	≤20.97	PASS
		2441	5.17	≤20.97	PASS
		2480	3.73	≤20.97	PASS

Test Graphs

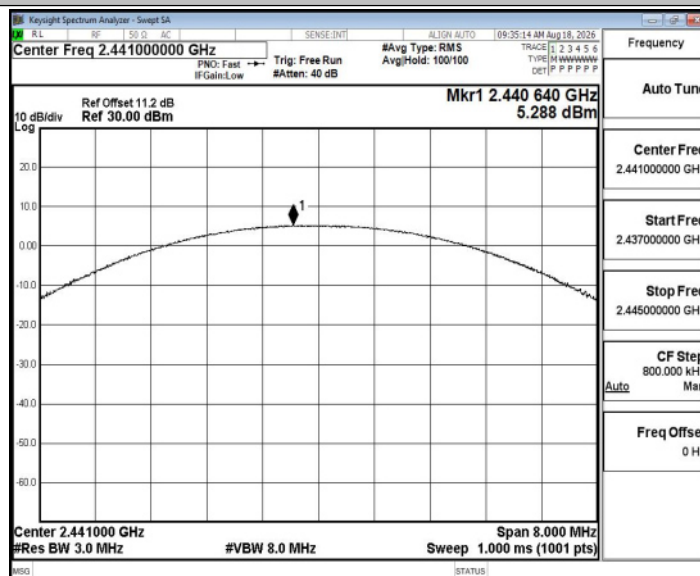




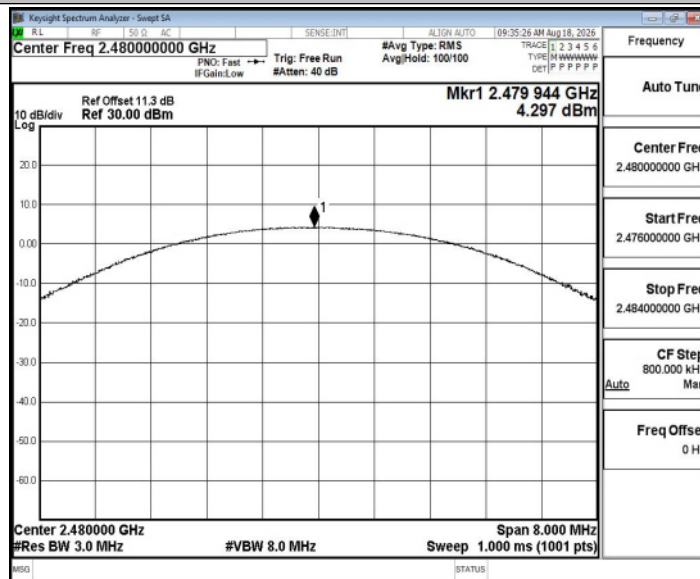
2DH5_Ant1_2402



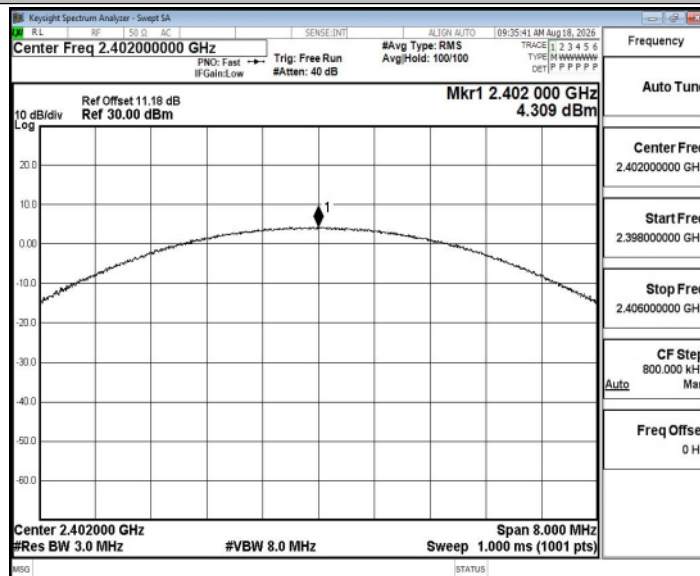
2DH5_Ant1_2441



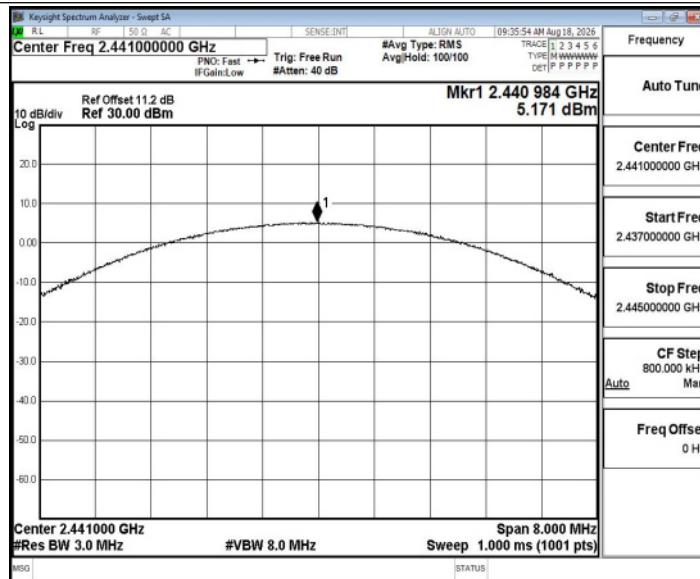
2DH5_Ant1_2480



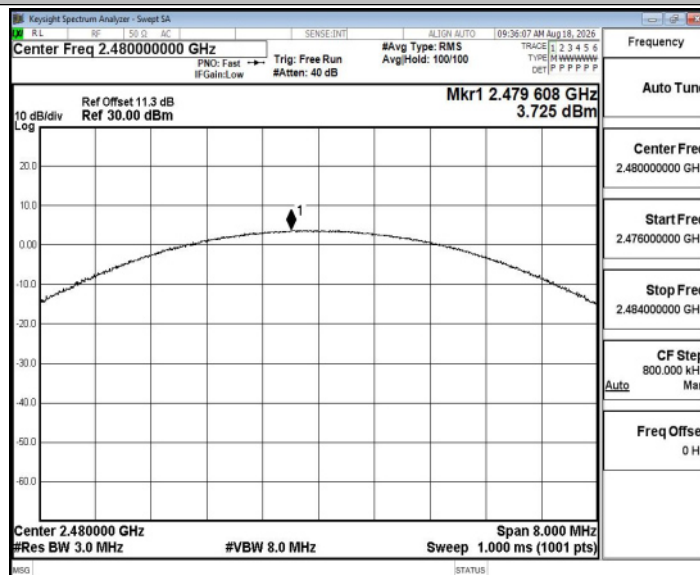
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



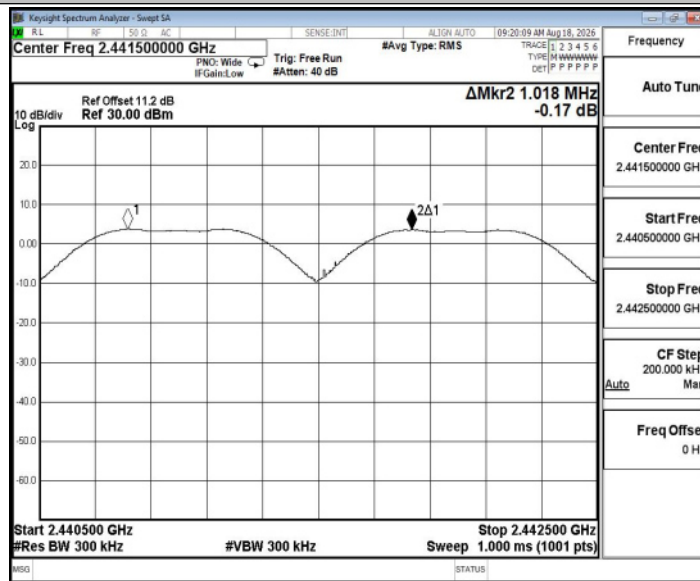
A.3 Carrier frequency separation

Test Result

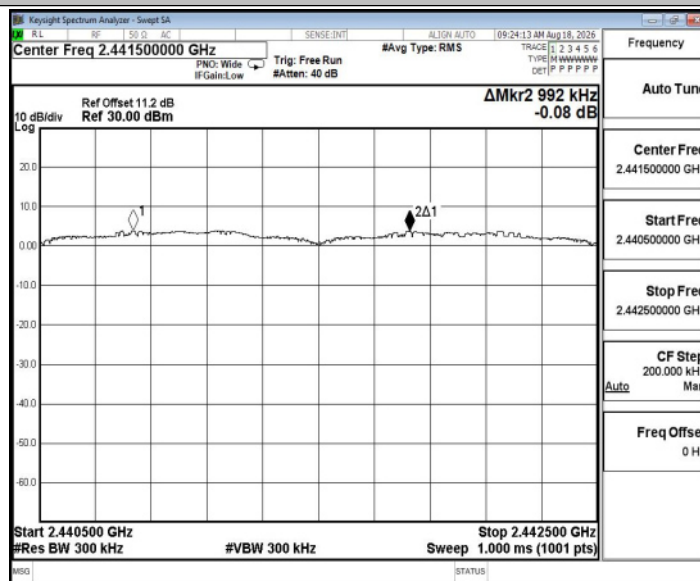
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.018	≥ 0.644	PASS
2DH5	Ant1	Hop	0.992	≥ 0.858	PASS
3DH5	Ant1	Hop	0.988	≥ 0.870	PASS

Test Graphs

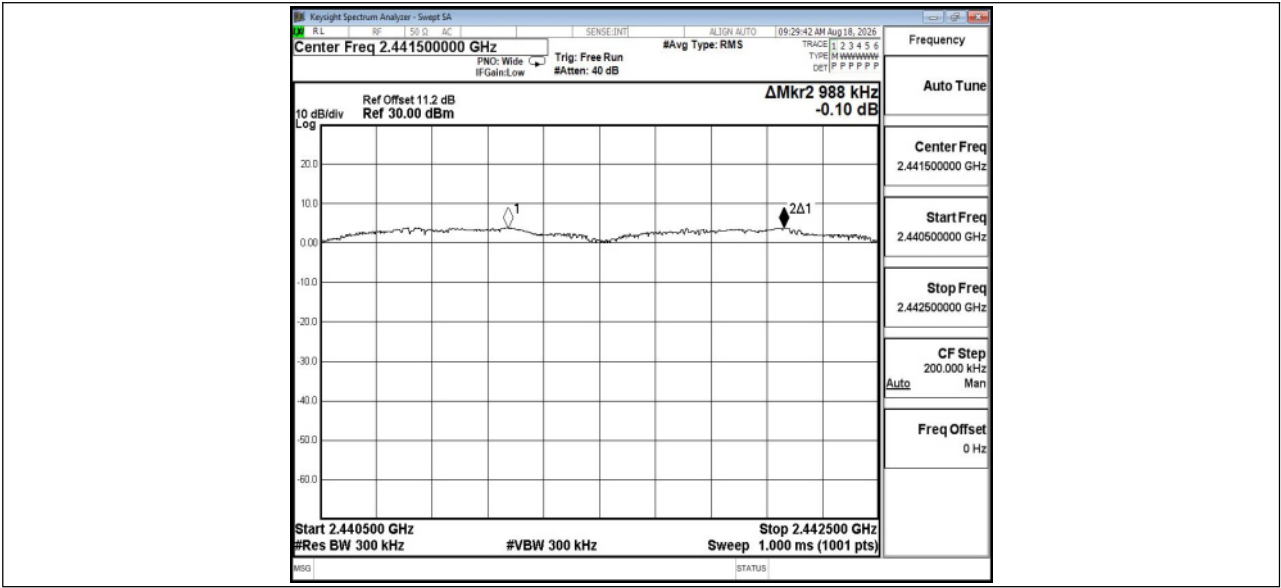
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



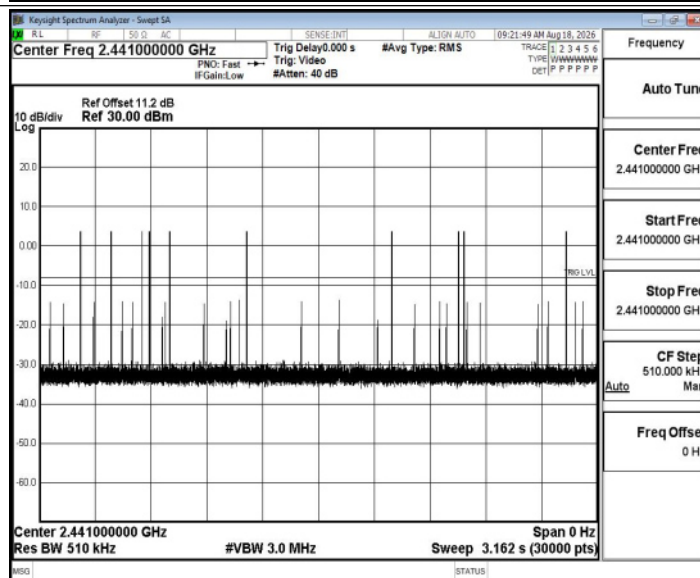
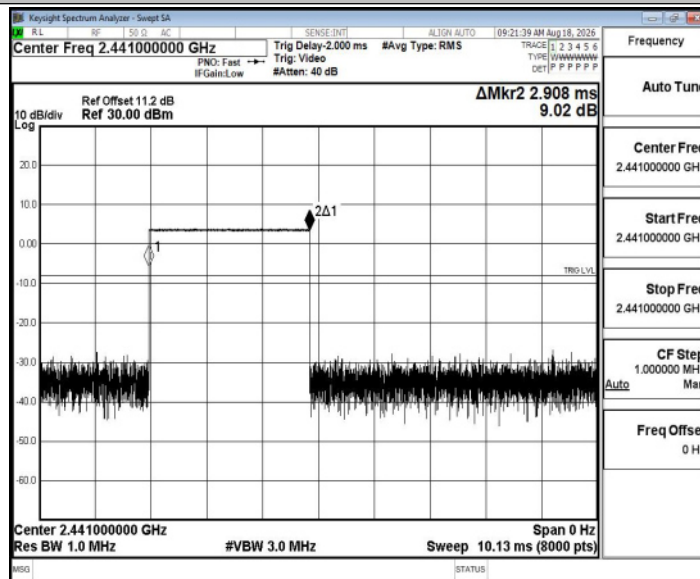
A.4 Time of occupancy

Test Result

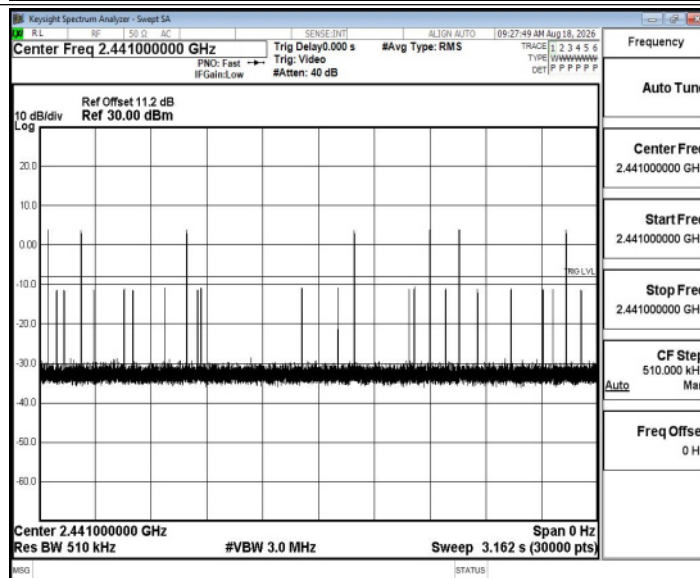
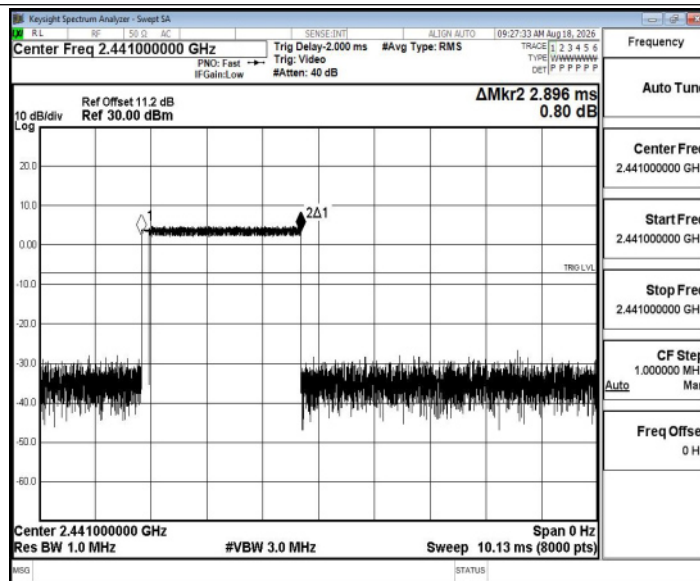
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.896	80	0.232	≤0.4	PASS
3DH5	Ant1	Hop	2.896	100	0.29	≤0.4	PASS

Test Graphs

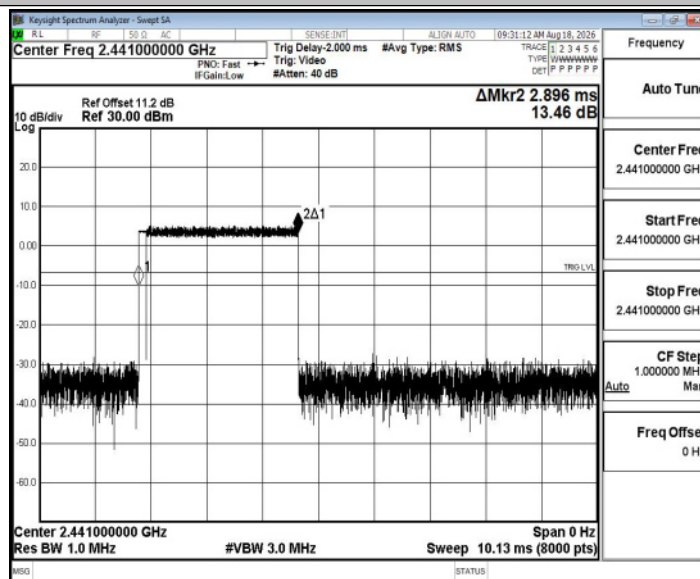
DH5_Ant1_Hop

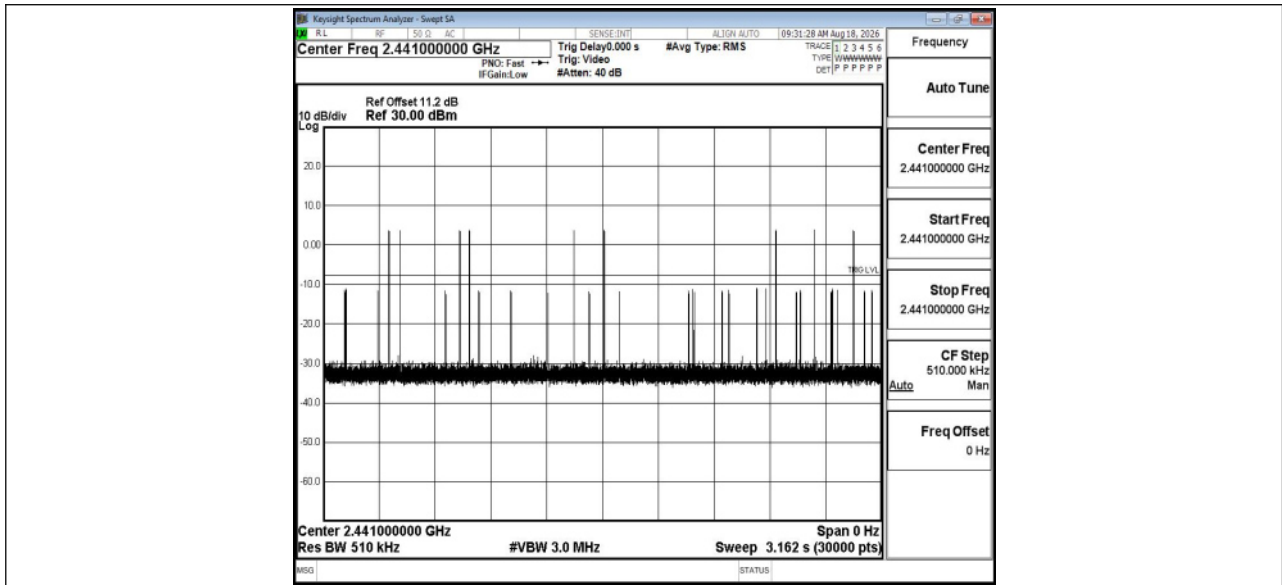


2DH5_Ant1_Hop



3DH5_Ant1_Hop





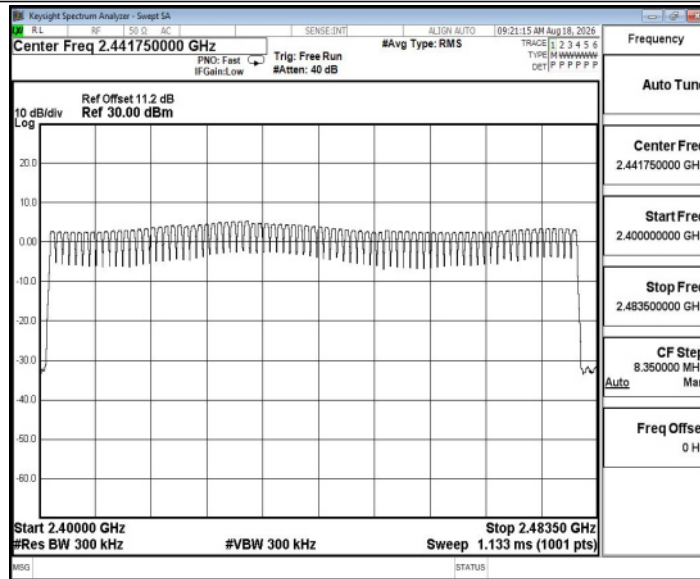
A.5 Number of hopping channels

Test Result

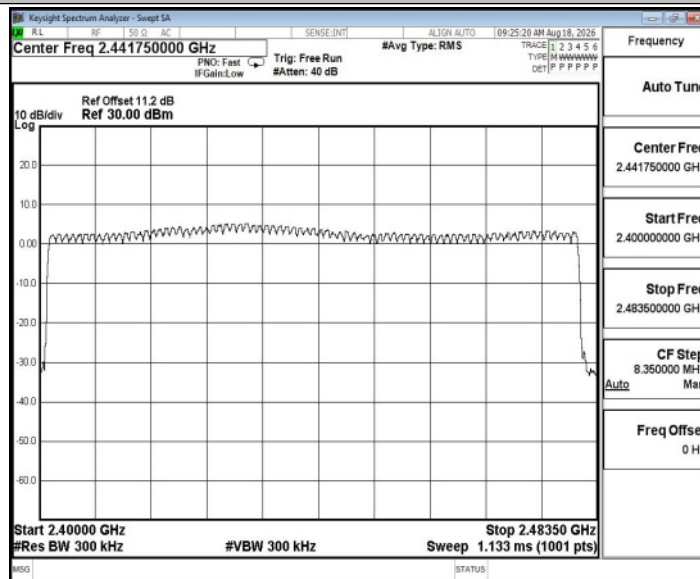
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

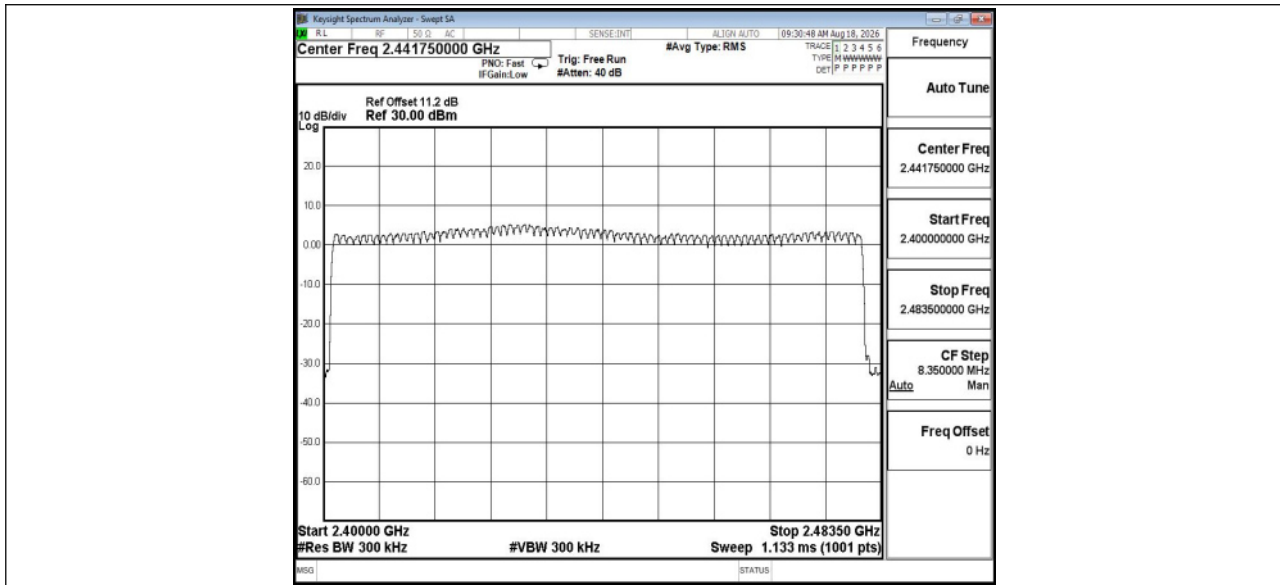
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



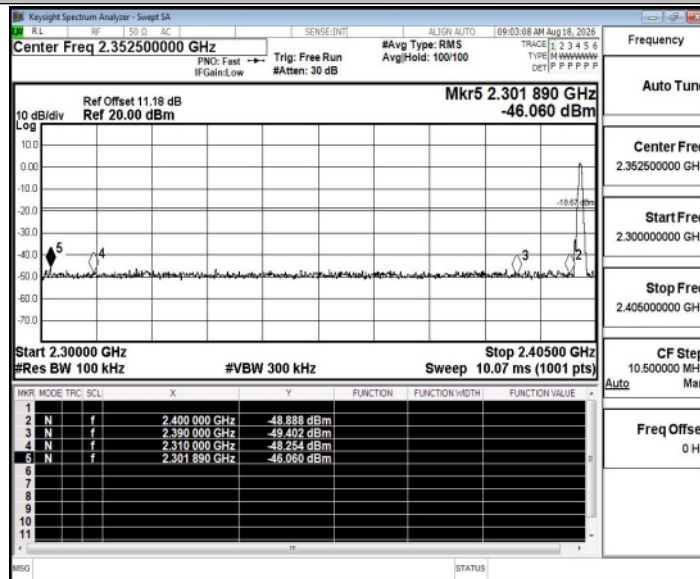
A.6 Band edge measurements

Test Result

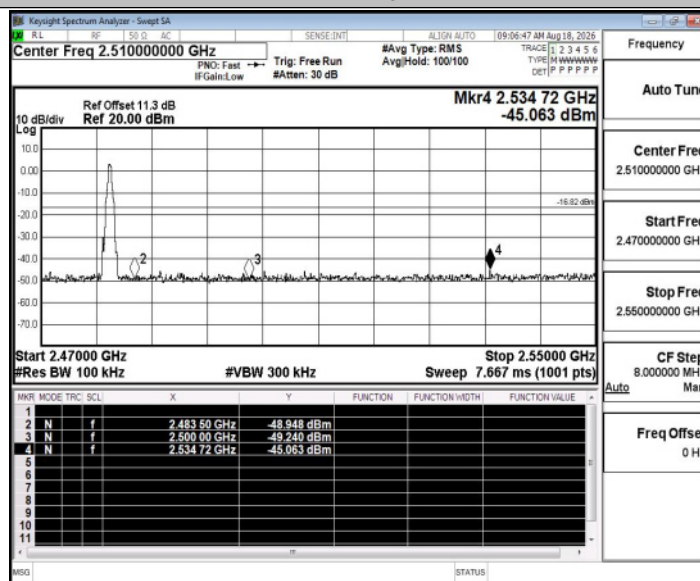
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.33	-46.06	≤-18.67	PASS
		High	2480	3.18	-45.06	≤-16.82	PASS
		Low	Hop_2402	0.99	-46.65	≤-19.01	PASS
		High	Hop_2480	2.44	-44.56	≤-17.56	PASS
2DH5	Ant1	Low	2402	2.42	-46.53	≤-17.58	PASS
		High	2480	2.84	-46.01	≤-17.16	PASS
		Low	Hop_2402	-1.77	-45.44	≤-21.77	PASS
		High	Hop_2480	0.82	-44.4	≤-19.18	PASS
3DH5	Ant1	Low	2402	2.37	-45.04	≤-17.63	PASS
		High	2480	3.12	-45.83	≤-16.88	PASS
		Low	Hop_2402	-0.97	-46.29	≤-20.97	PASS
		High	Hop_2480	0.95	-45.78	≤-19.05	PASS

Test Graphs

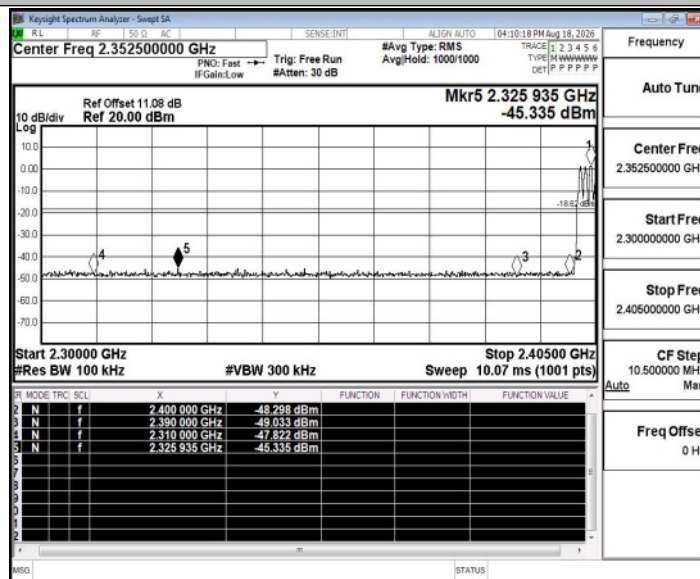
DH5_Ant1_Low_2402



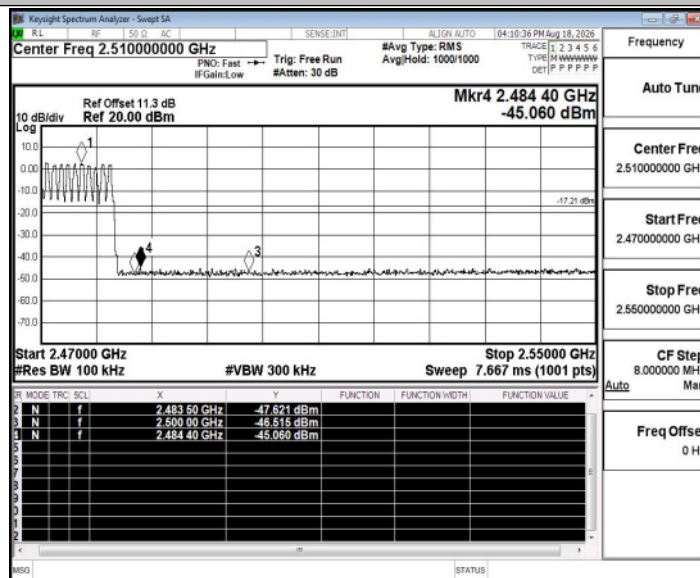
DH5_Ant1_High_2480



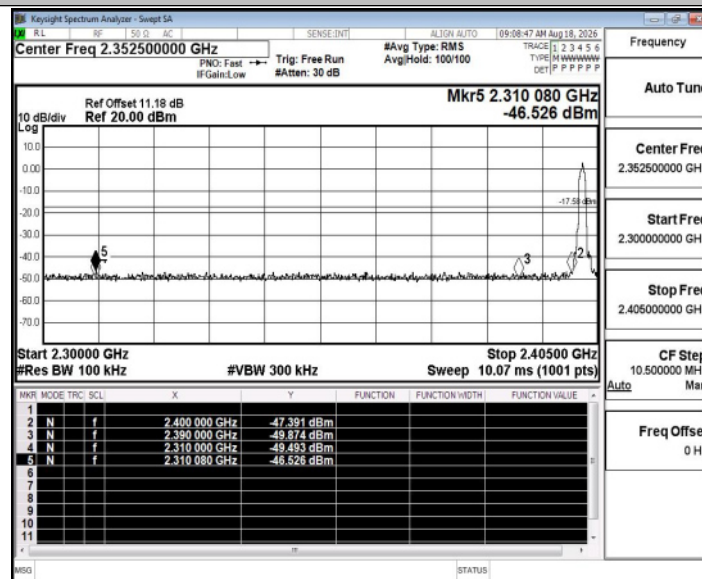
DH5_Ant1_Low_Hop_2402



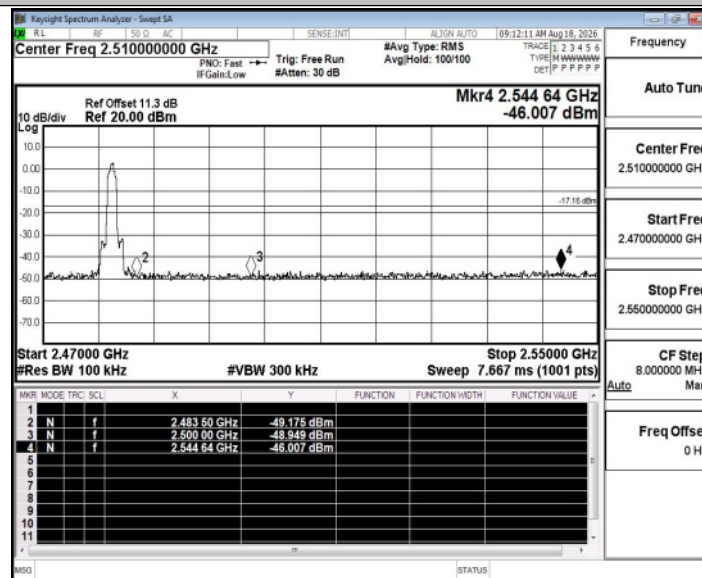
DH5_Ant1_High_Hop_2480



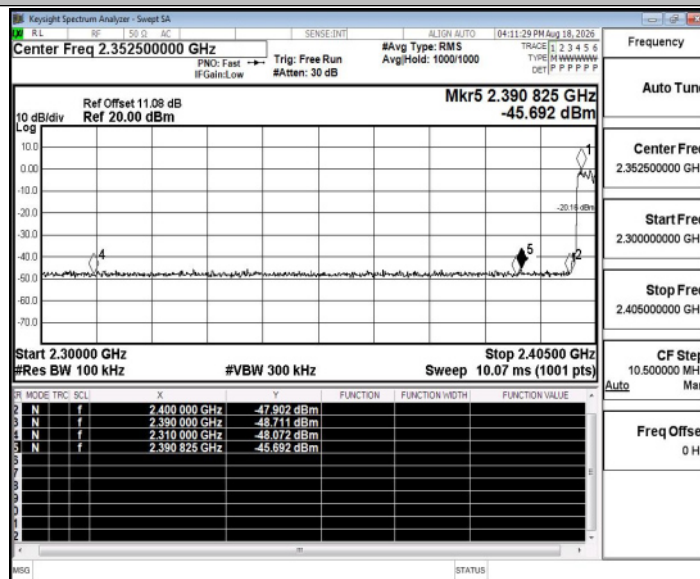
2DH5_Ant1_Low_2402



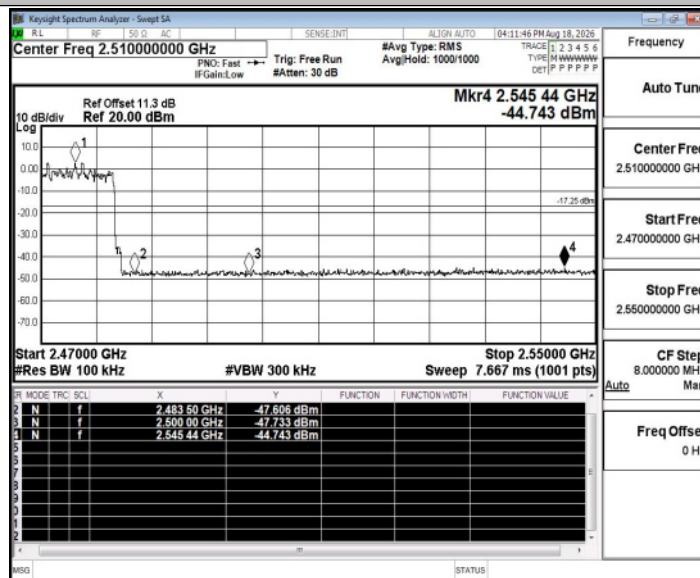
2DH5_Ant1_High_2480



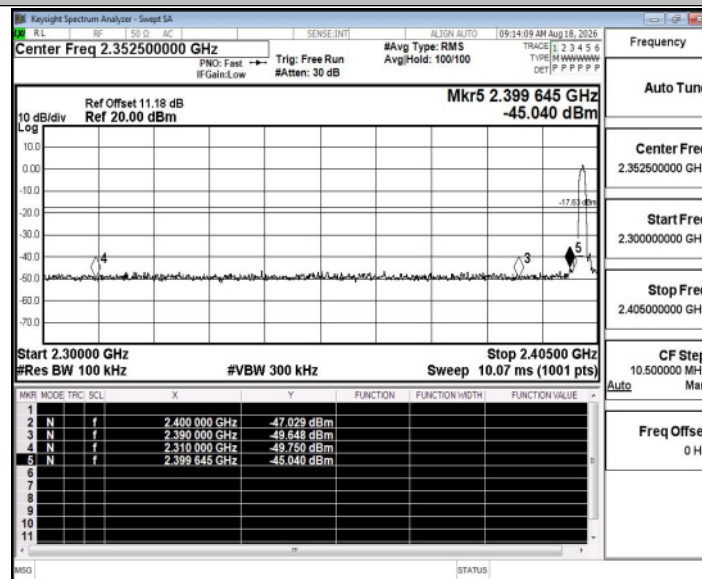
2DH5_Ant1_Low_Hop_2402



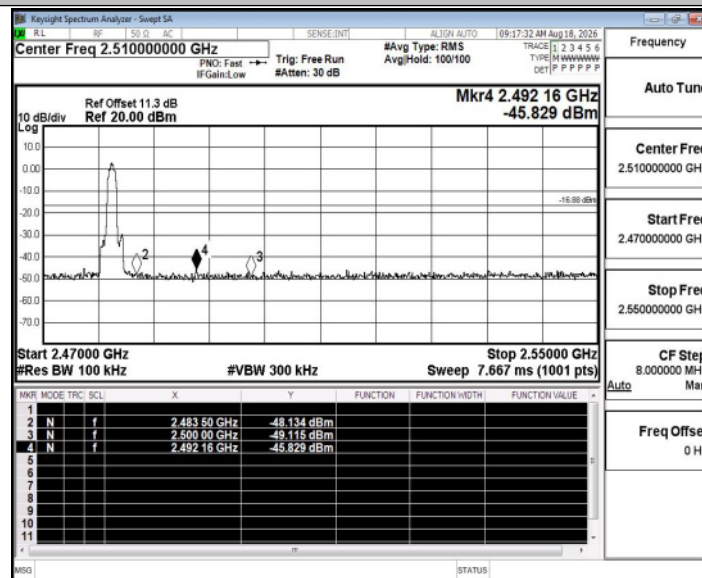
2DH5_Ant1_High_Hop_2480



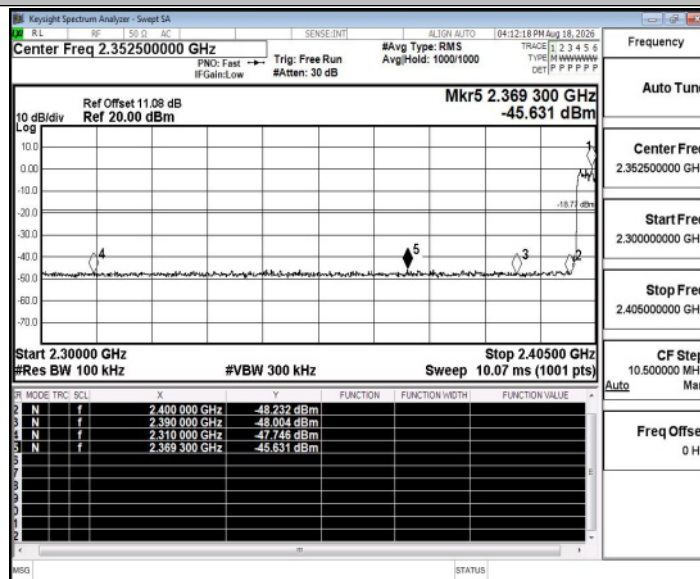
3DH5_Ant1_Low_2402



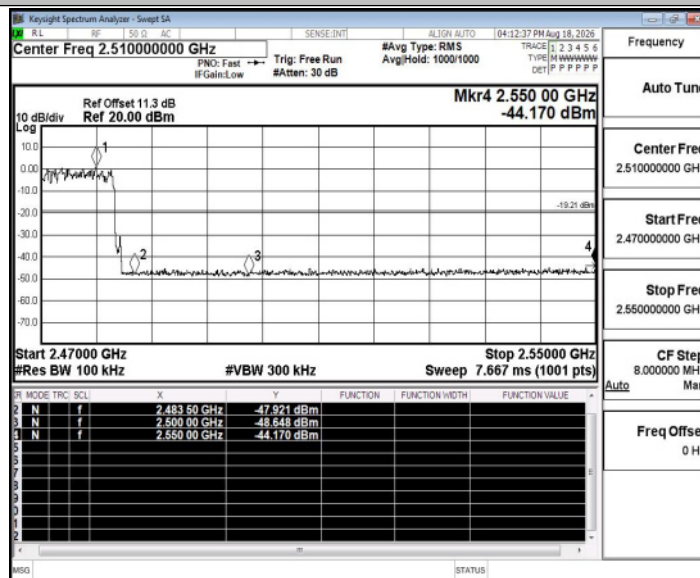
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



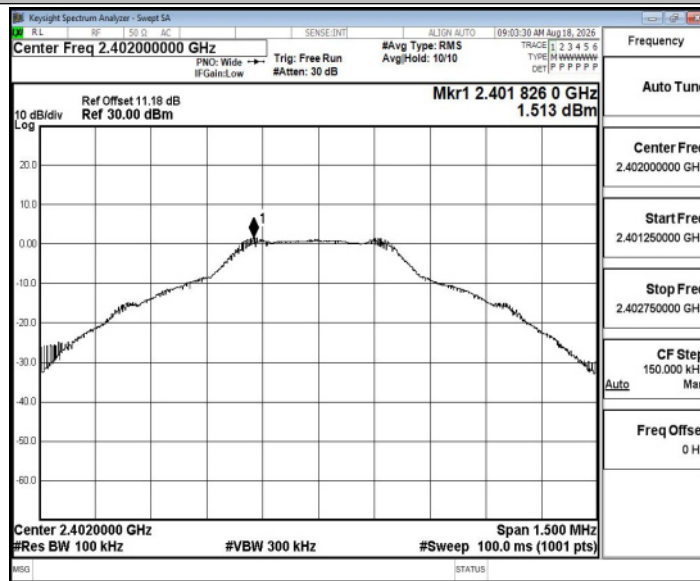
A.7 Conducted Spurious Emission

Test Result

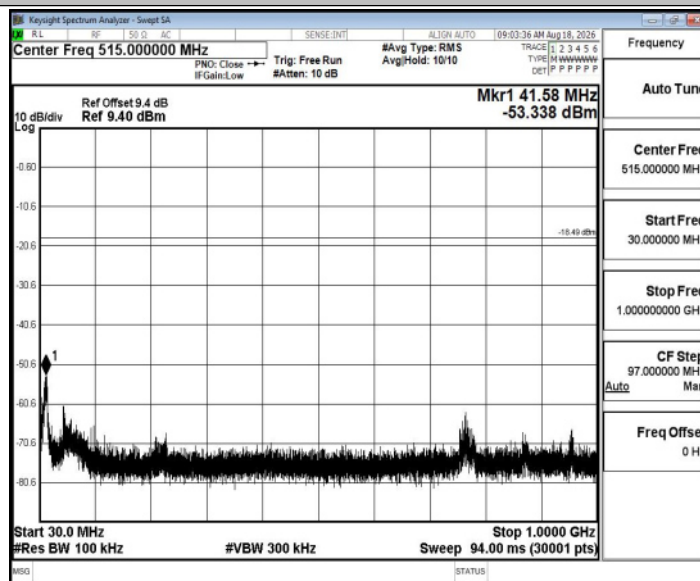
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-53.34	≤-18.49	PASS
			1000~26500	1.51	-45.06	≤-18.49	PASS
		2441	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-52.27	≤-16.16	PASS
			1000~26500	3.84	-44.51	≤-16.16	PASS
		2480	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-52.05	≤-16.81	PASS
			1000~26500	3.19	-44.98	≤-16.81	PASS
2DH5	Ant1	2402	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-51.92	≤-17.56	PASS
			1000~26500	2.44	-44.99	≤-17.56	PASS
		2441	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-52.78	≤-16.3	PASS
			1000~26500	3.70	-44.41	≤-16.3	PASS
		2480	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-50.97	≤-17.08	PASS
			1000~26500	2.92	-43.94	≤-17.08	PASS
3DH5	Ant1	2402	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-50	≤-17.46	PASS
			1000~26500	2.54	-44.8	≤-17.46	PASS
		2441	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-50.66	≤-16.19	PASS
			1000~26500	3.81	-44.94	≤-16.19	PASS
		2480	Reference	3.13	3.13	---	PASS
			30~1000	3.13	-51.19	≤-16.87	PASS
			1000~26500	3.13	-40.85	≤-16.87	PASS

Test Graphs

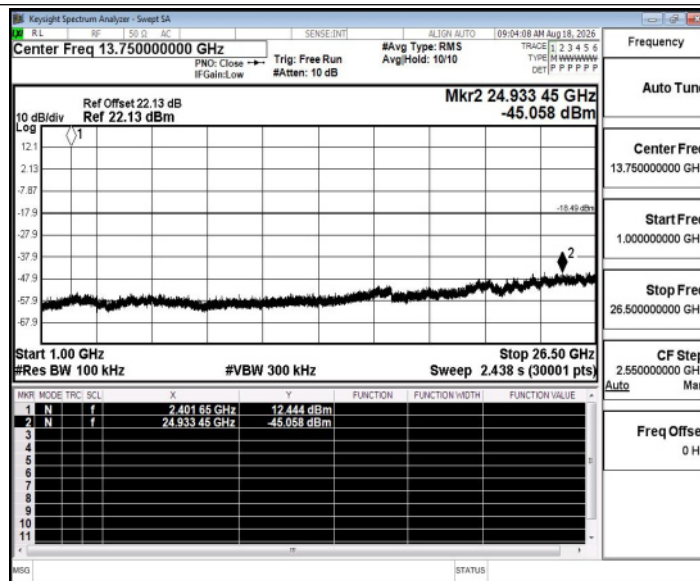
DH5_Ant1_2402_0~Reference



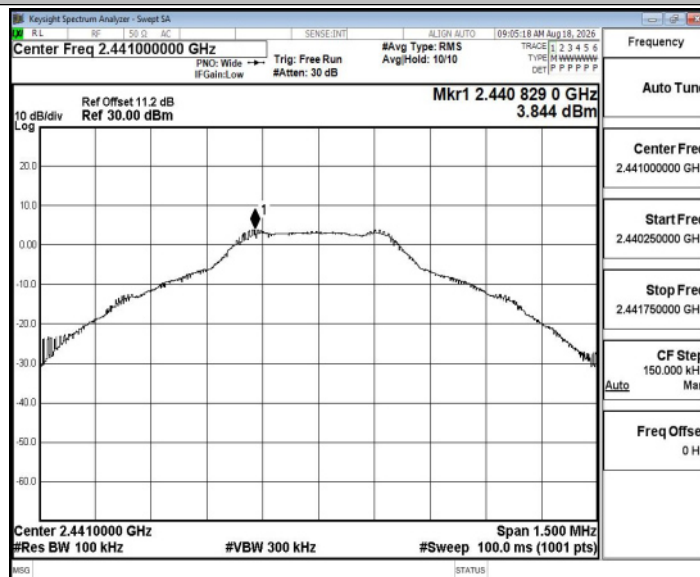
DH5_Ant1_2402_30~1000



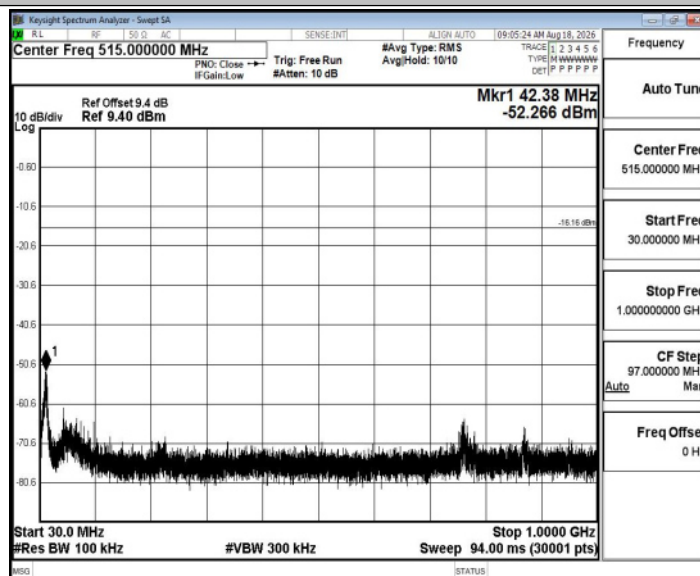
DH5_Ant1_2402_1000~26500



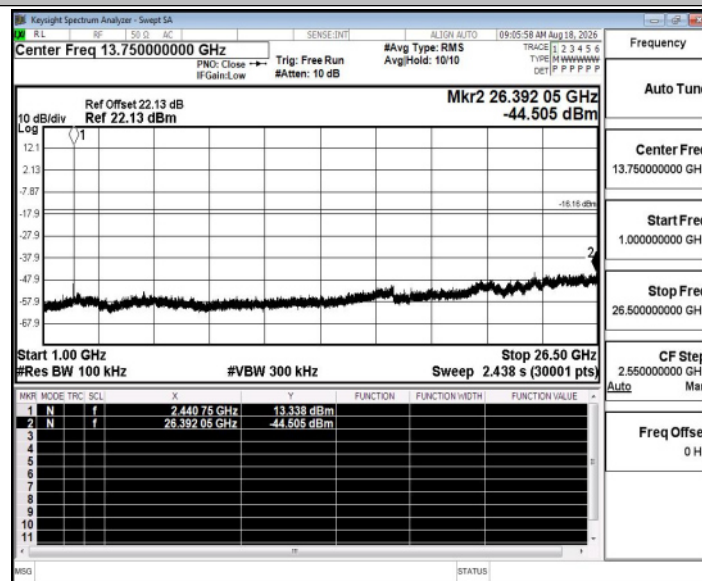
DH5_Ant1_2441_0~Reference



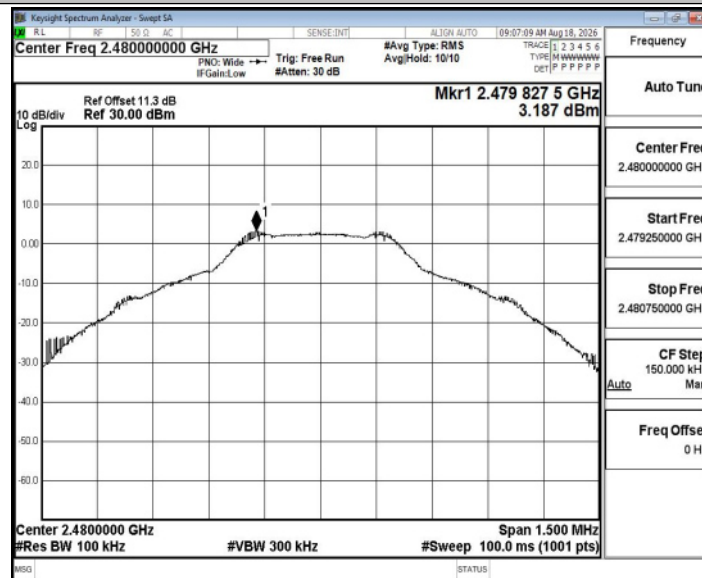
DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000