

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Baby sleep lamp

Test Model: YTCX-102

Environmental Conditions

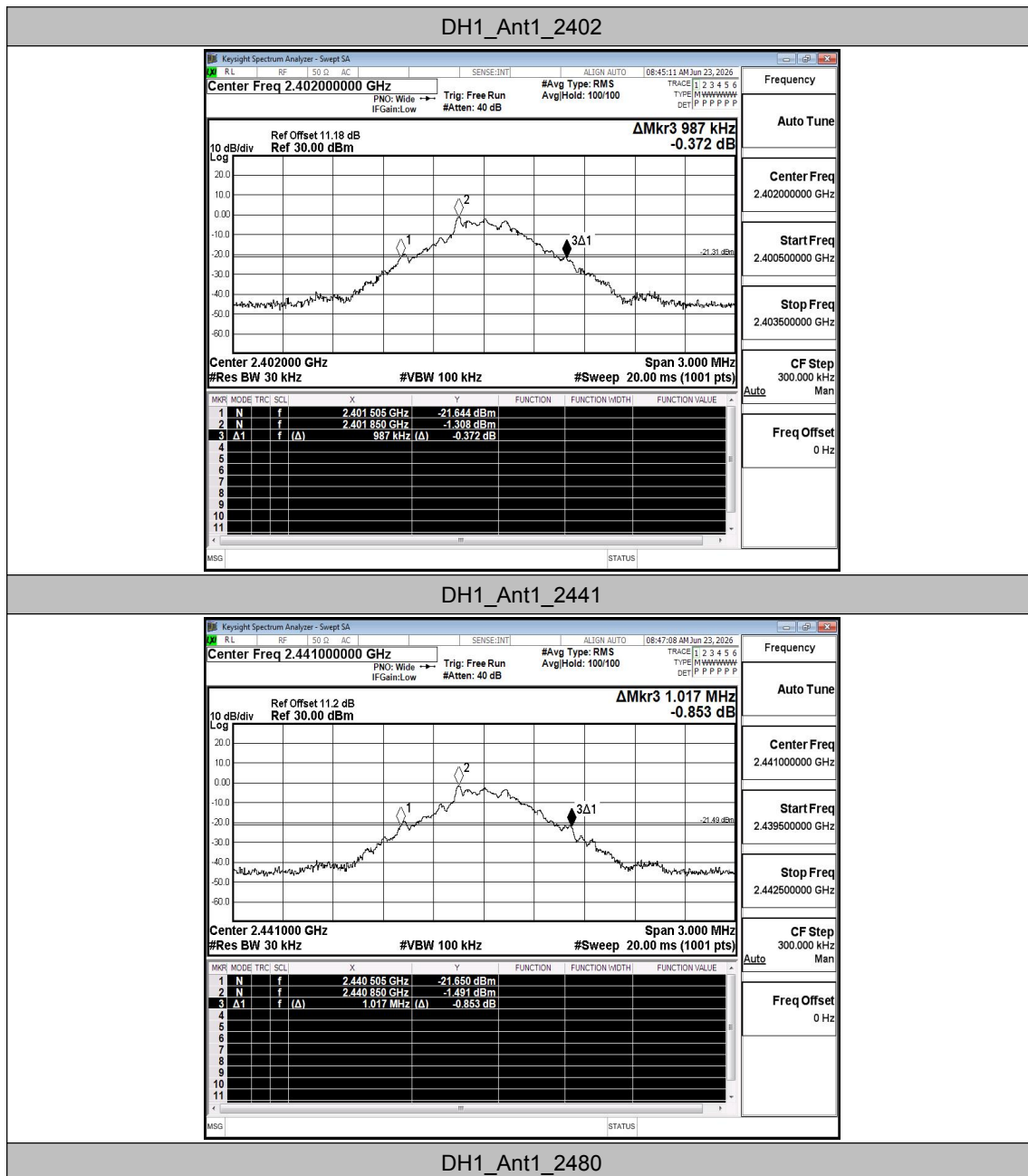
Temperature:	24.2°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

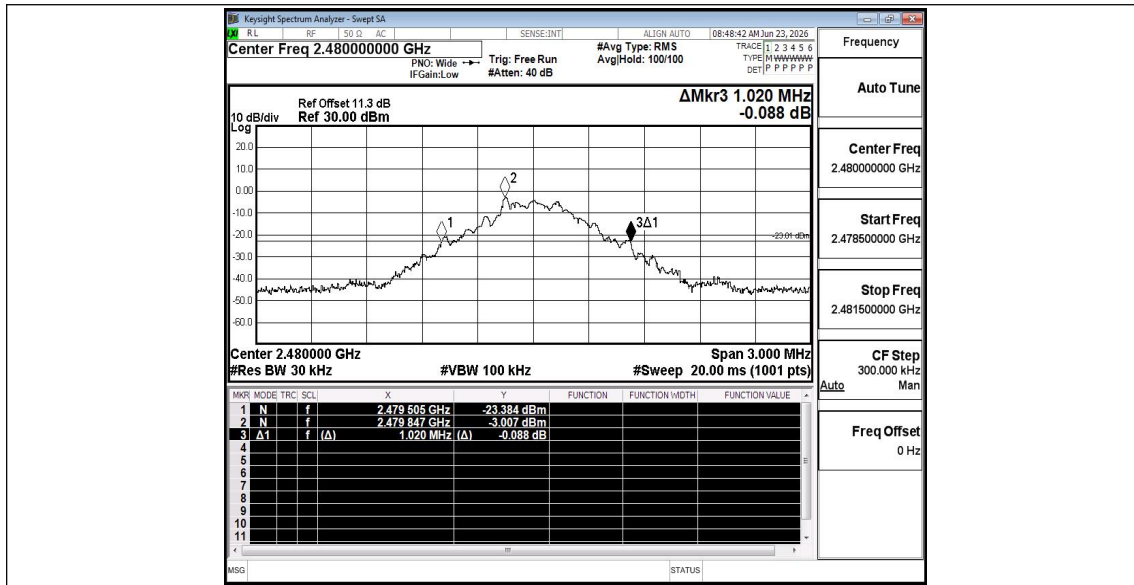
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.987	2401.505	2402.492	---	---
		2441	1.017	2440.505	2441.522	---	---
		2480	1.020	2479.505	2480.525	---	---

Test Graphs



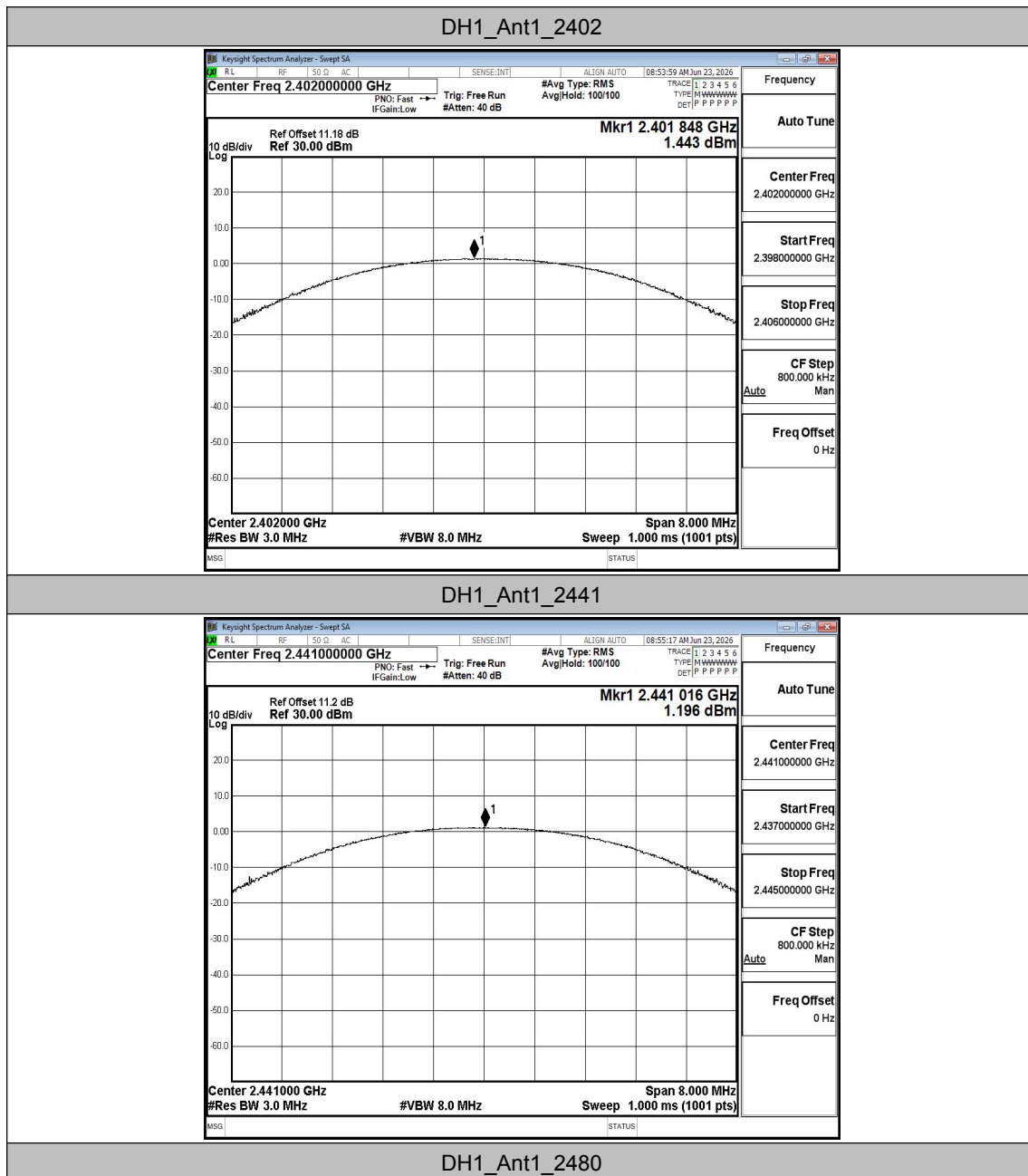


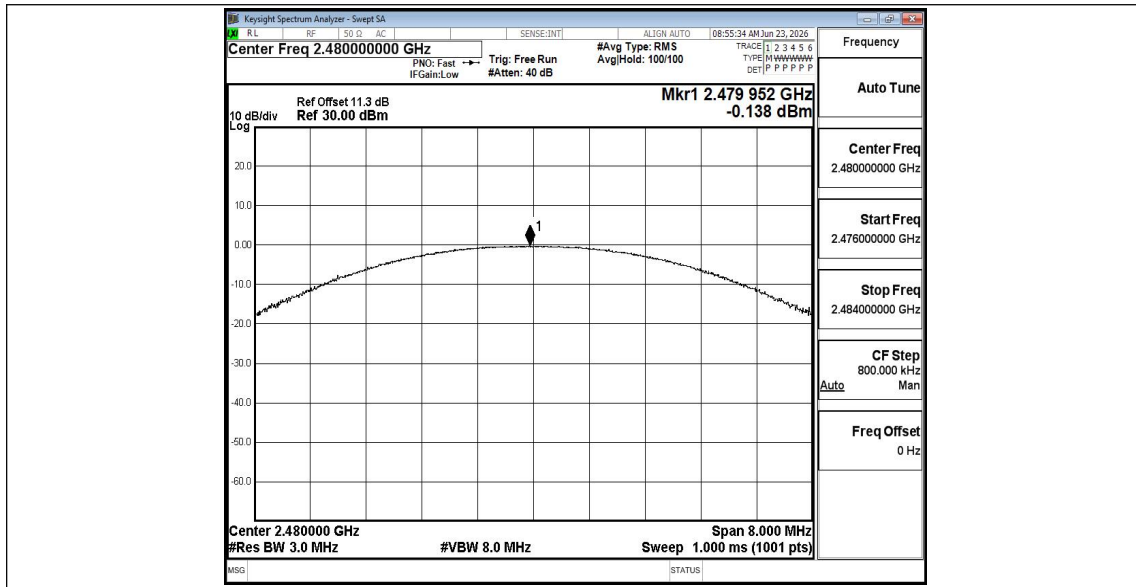
A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	1.44	≤30	PASS
		2441	1.20	≤30	PASS
		2480	-0.14	≤30	PASS

Test Graphs



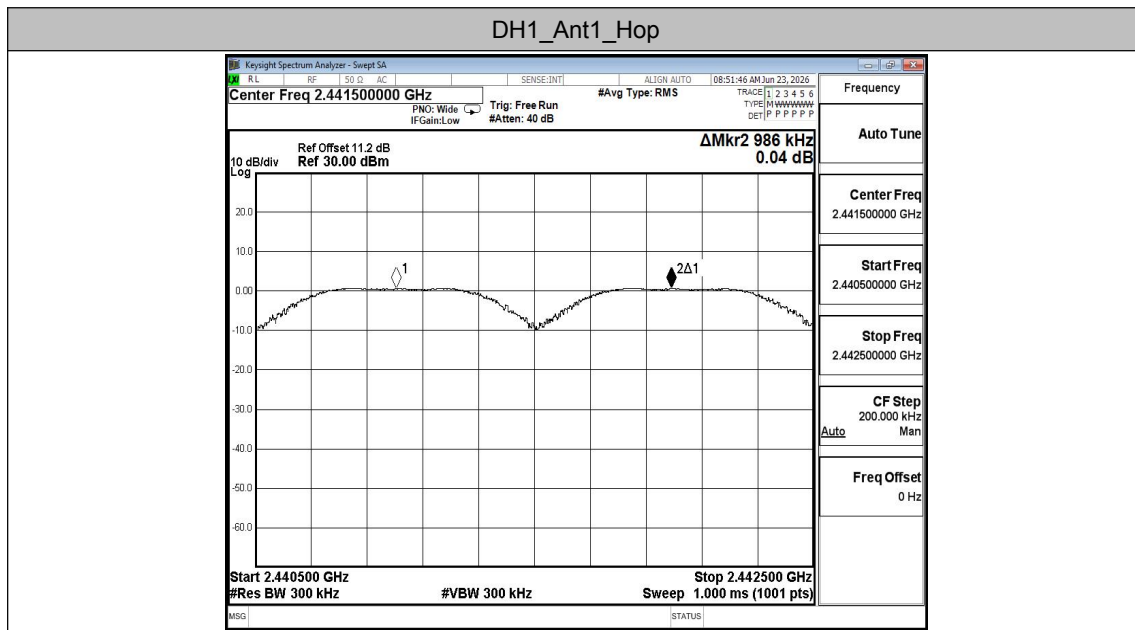


A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	0.986	≥0.680	PASS

Test Graphs

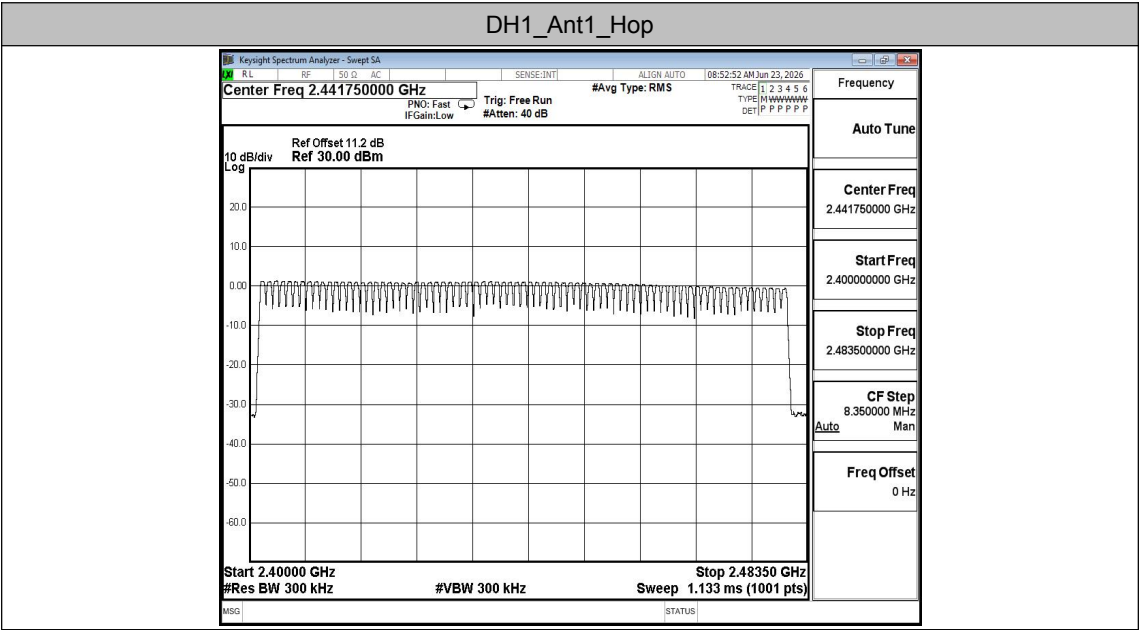


A.4 Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

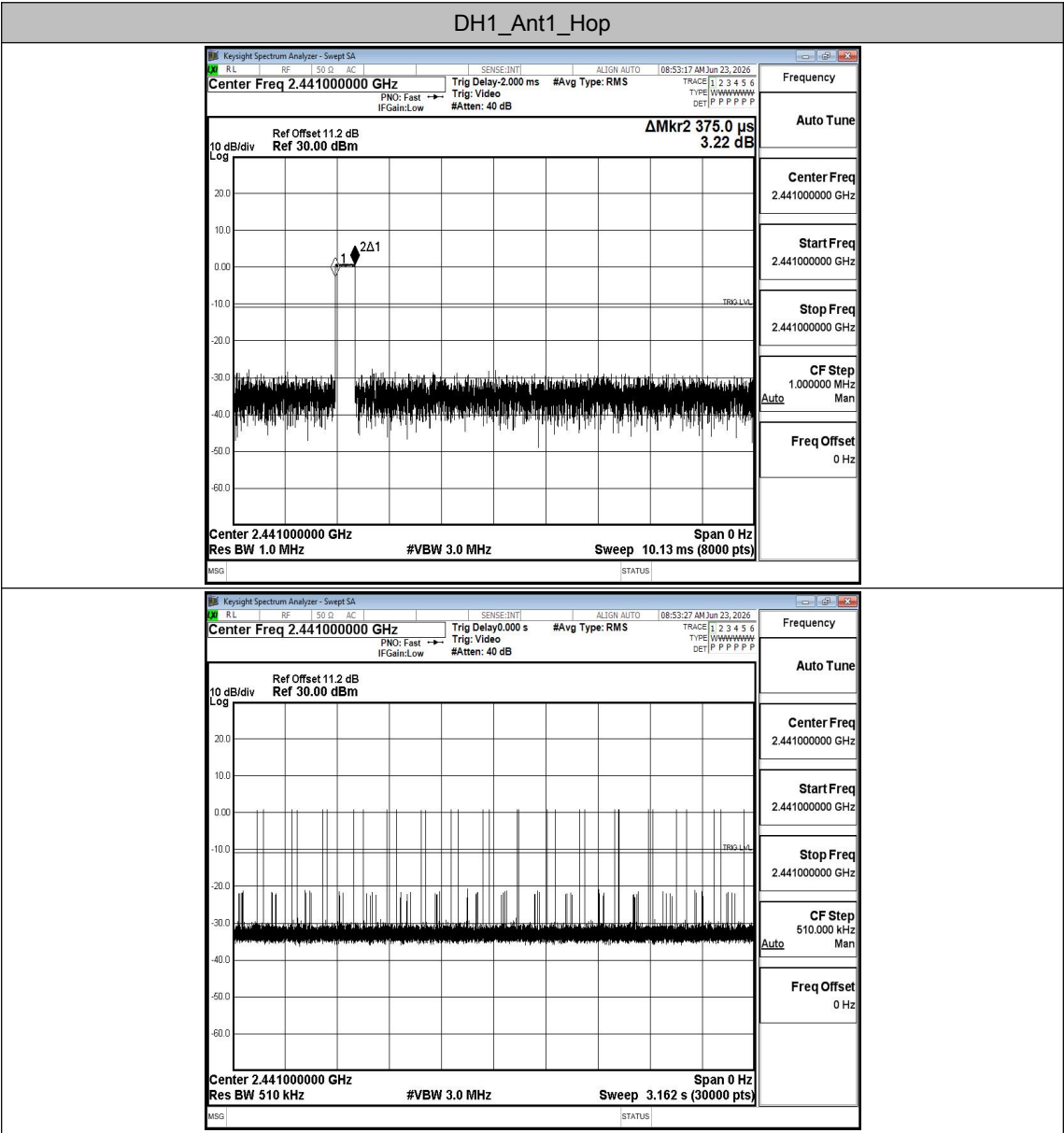


A.5 Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS

Test Graphs

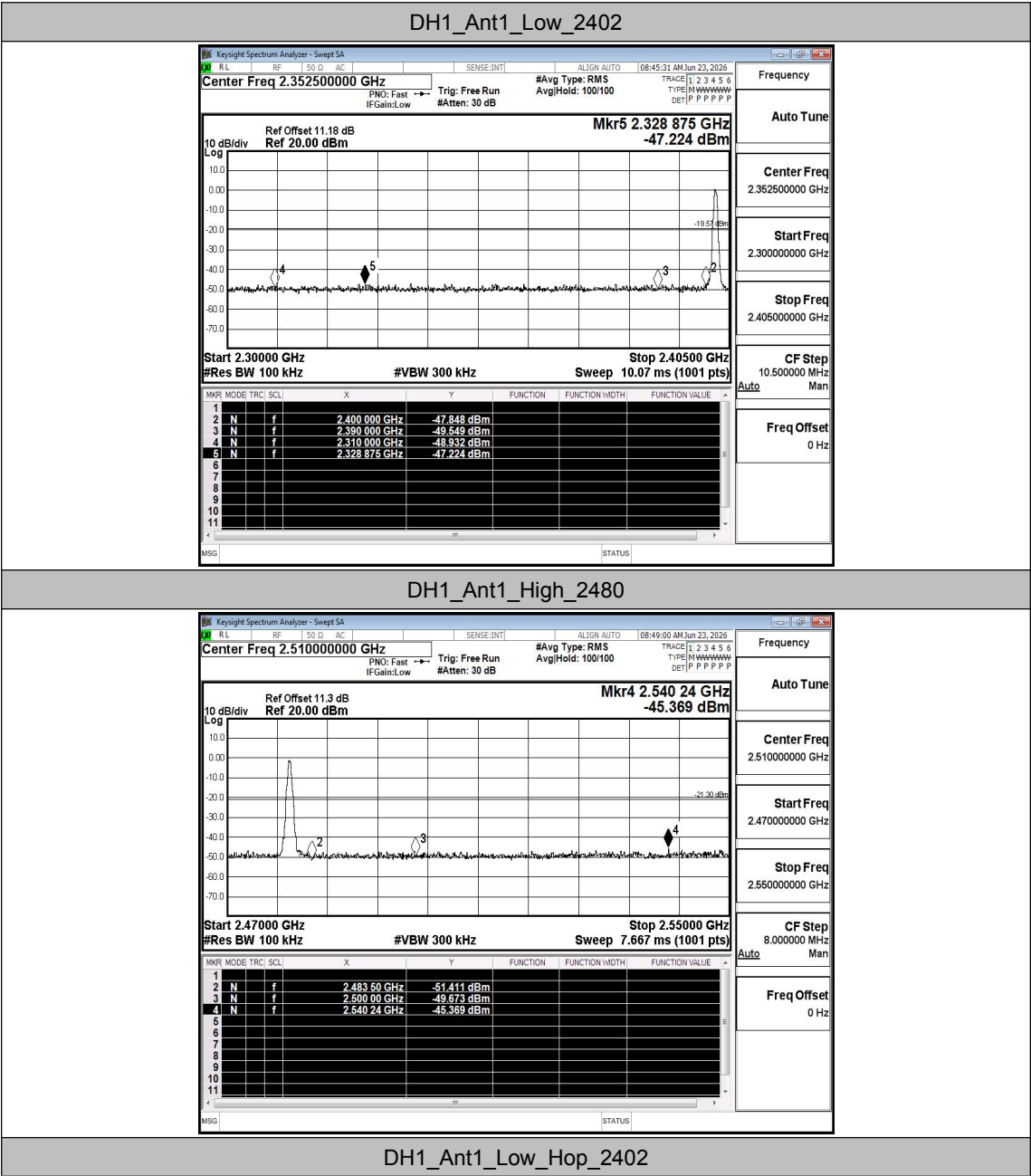


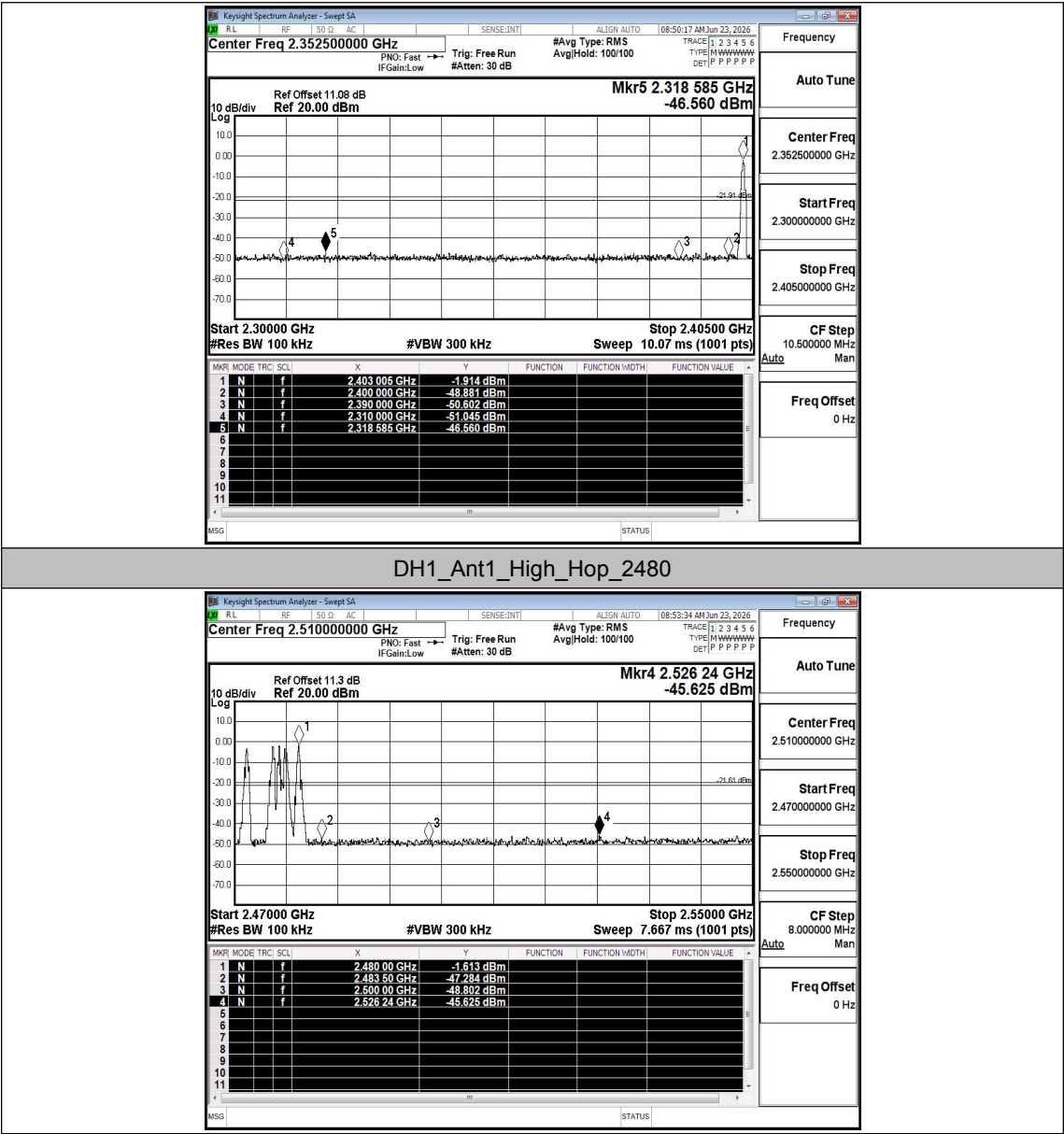
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	0.43	-47.22	≤ -19.57	PASS
		High	2480	-1.30	-45.37	≤ -21.3	PASS
		Low	Hop_2402	-1.91	-46.56	≤ -21.91	PASS
		High	Hop_2480	-1.61	-45.63	≤ -21.61	PASS

Test Graphs



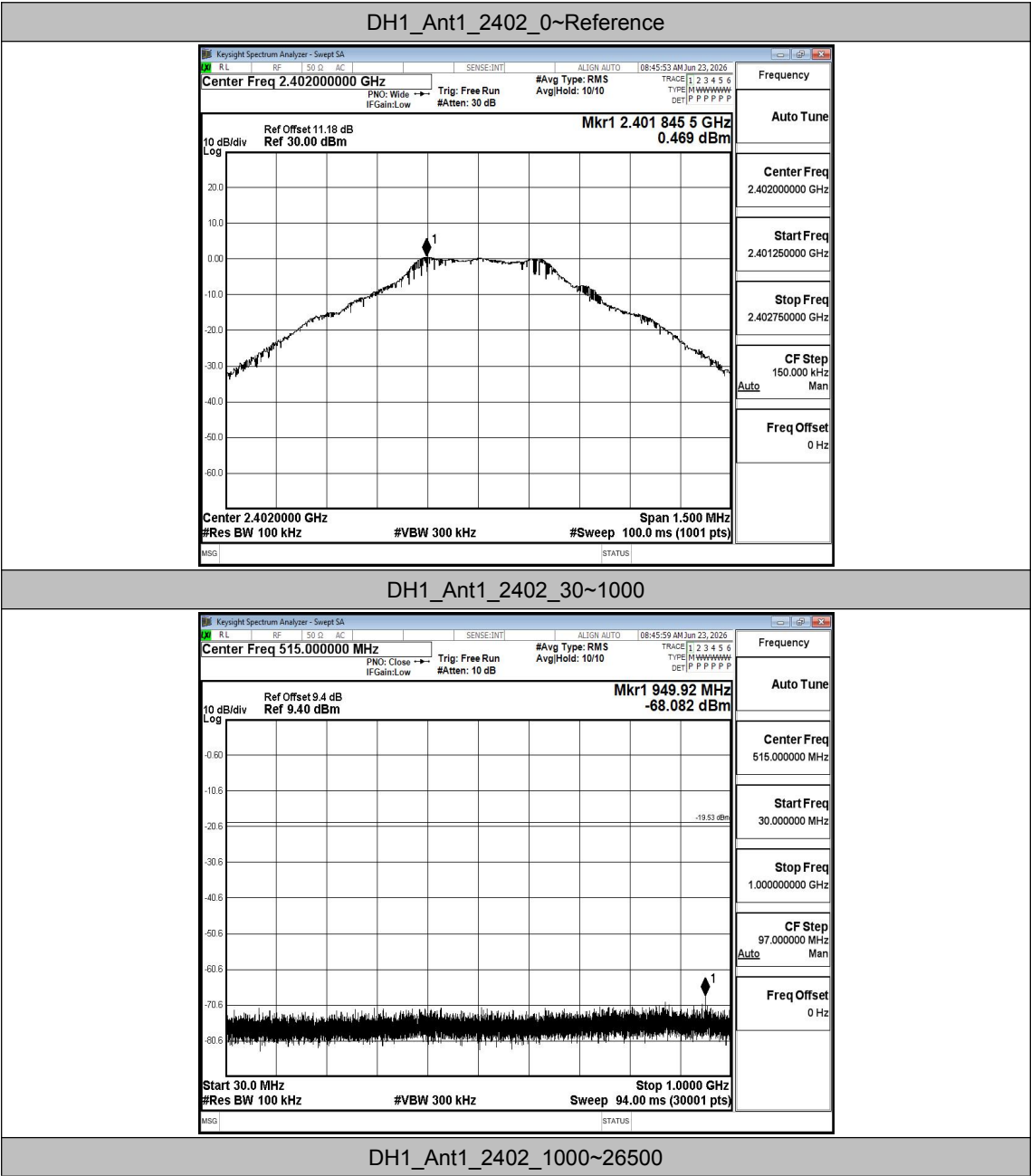


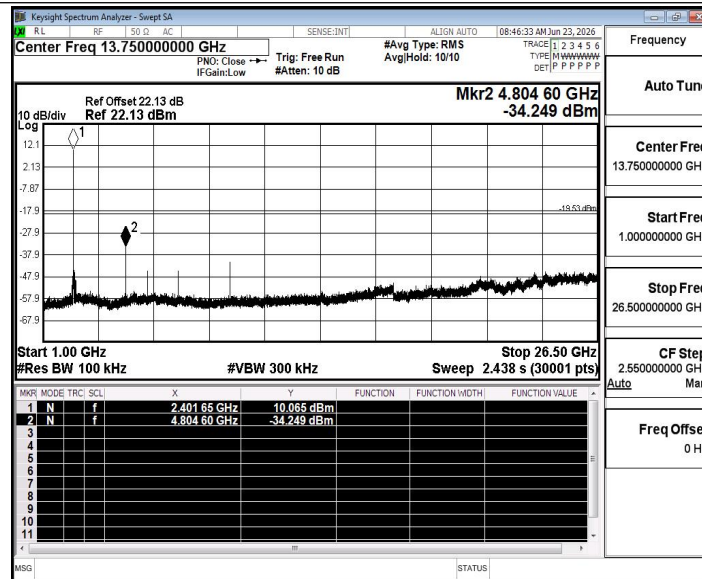
A.7 Conducted Spurious Emission

Test Result

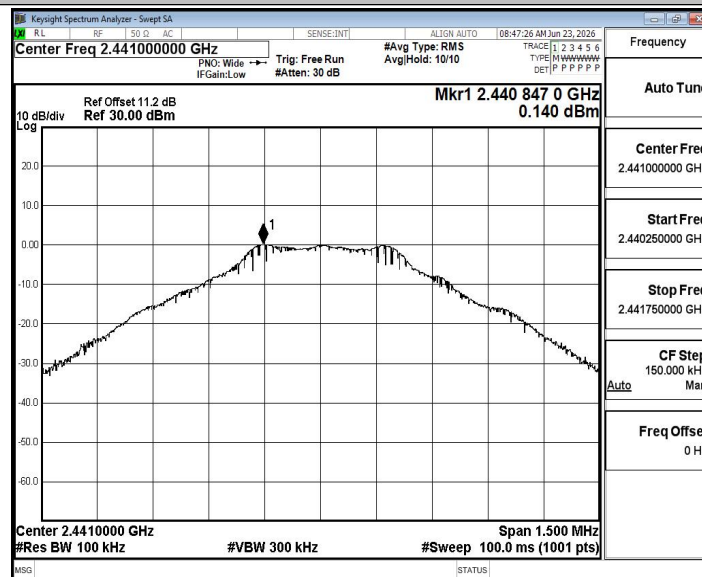
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-68.08	≤ -19.53	PASS
			1000~26500	0.47	-34.25	≤ -19.53	PASS
		2441	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-67.45	≤ -19.86	PASS
			1000~26500	0.14	-33.3	≤ -19.86	PASS
		2480	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-68.55	≤ -21.32	PASS
			1000~26500	-1.32	-27.7	≤ -21.32	PASS

Test Graphs

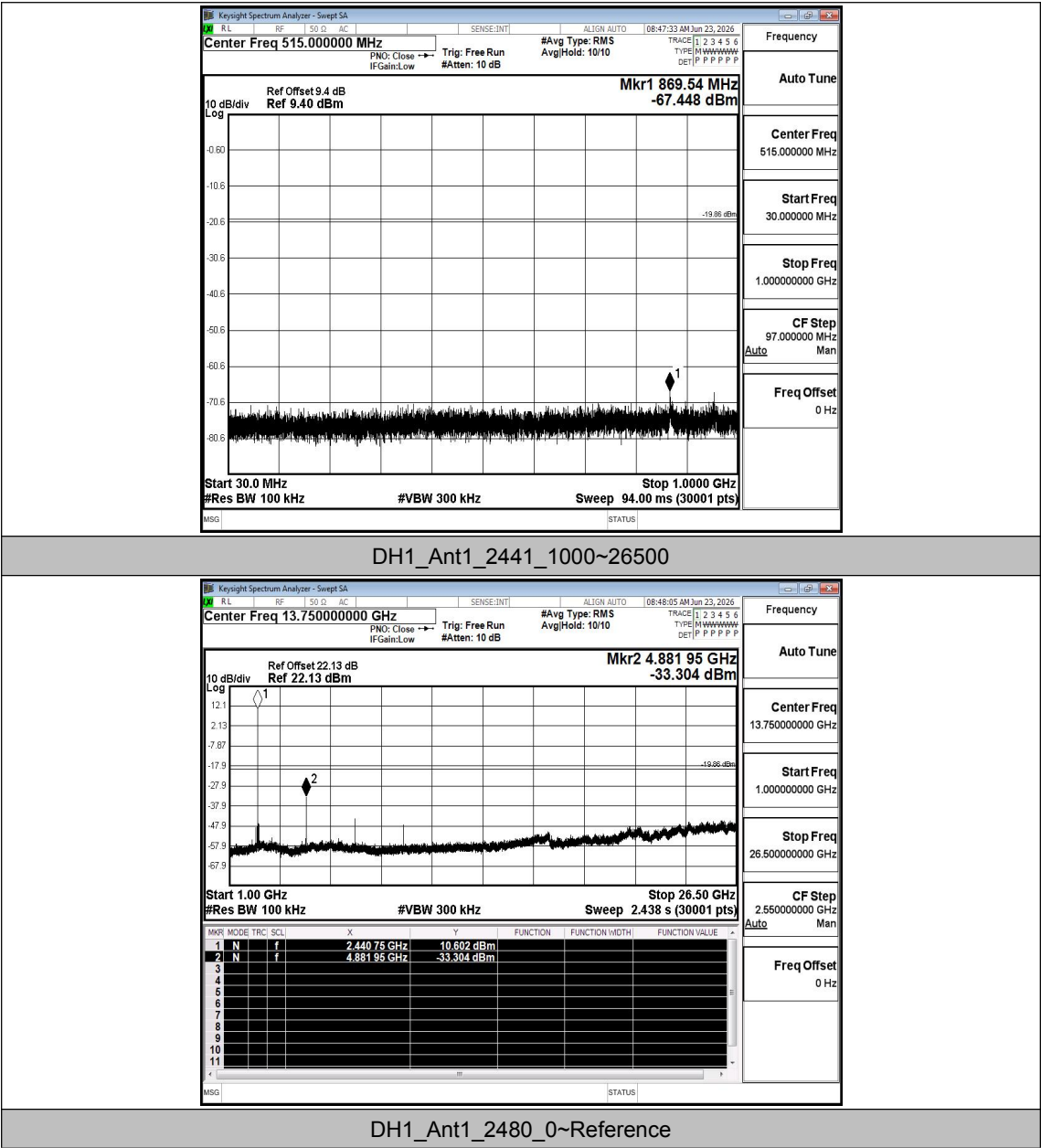


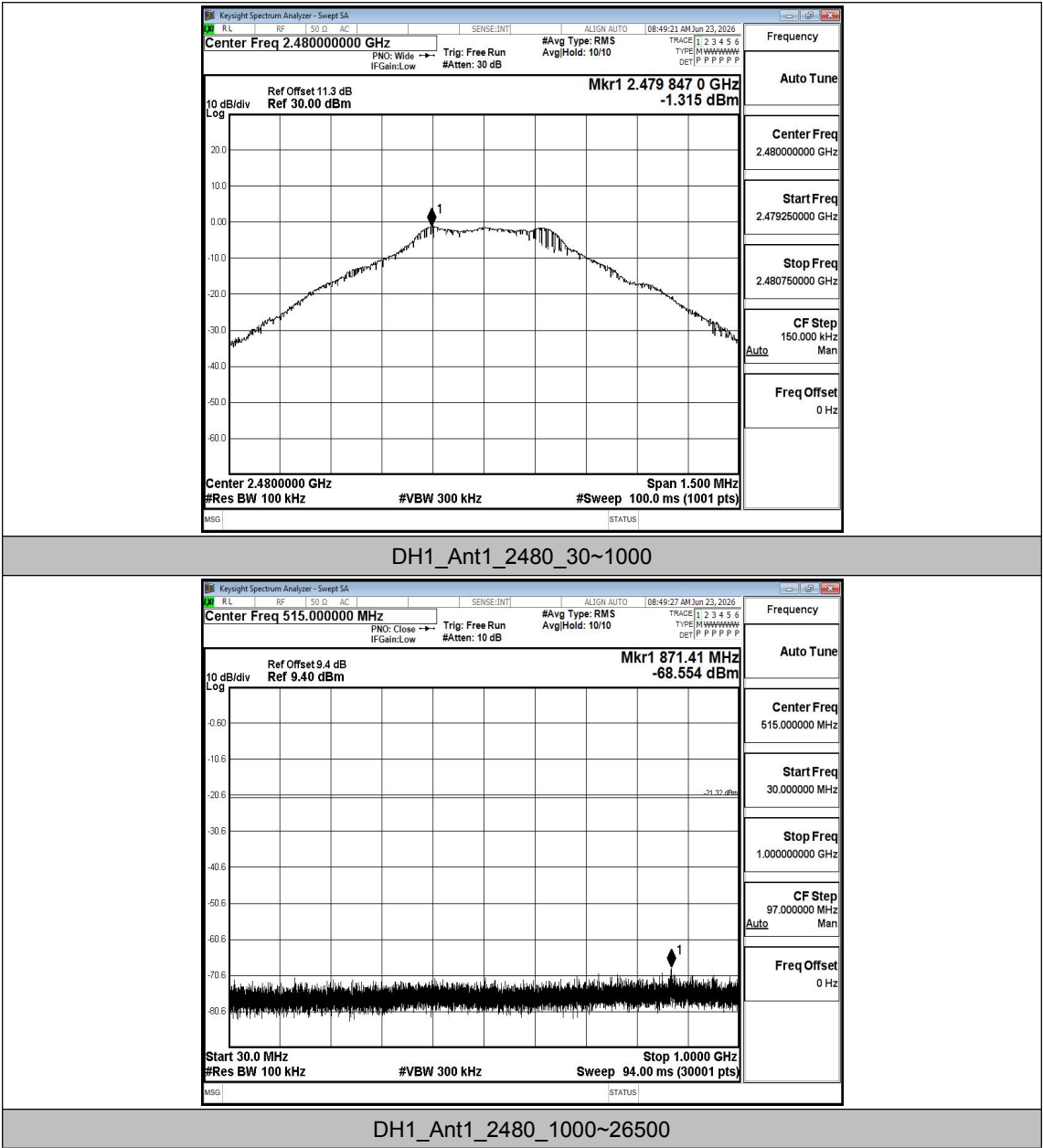


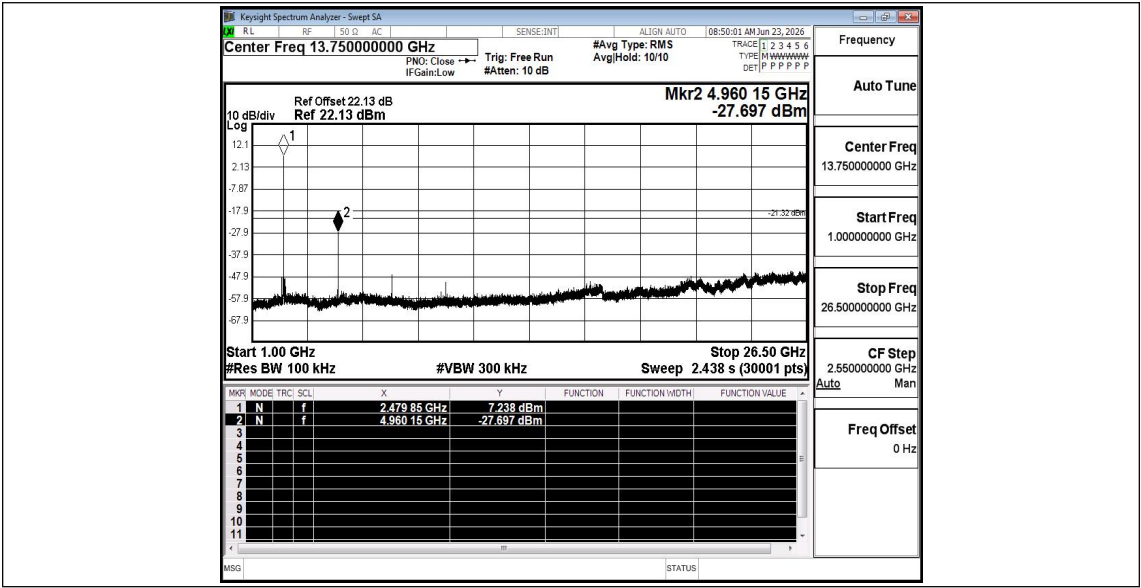
DH1_Ant1_2441_0~Reference



DH1 Ant1 2441 30~1000





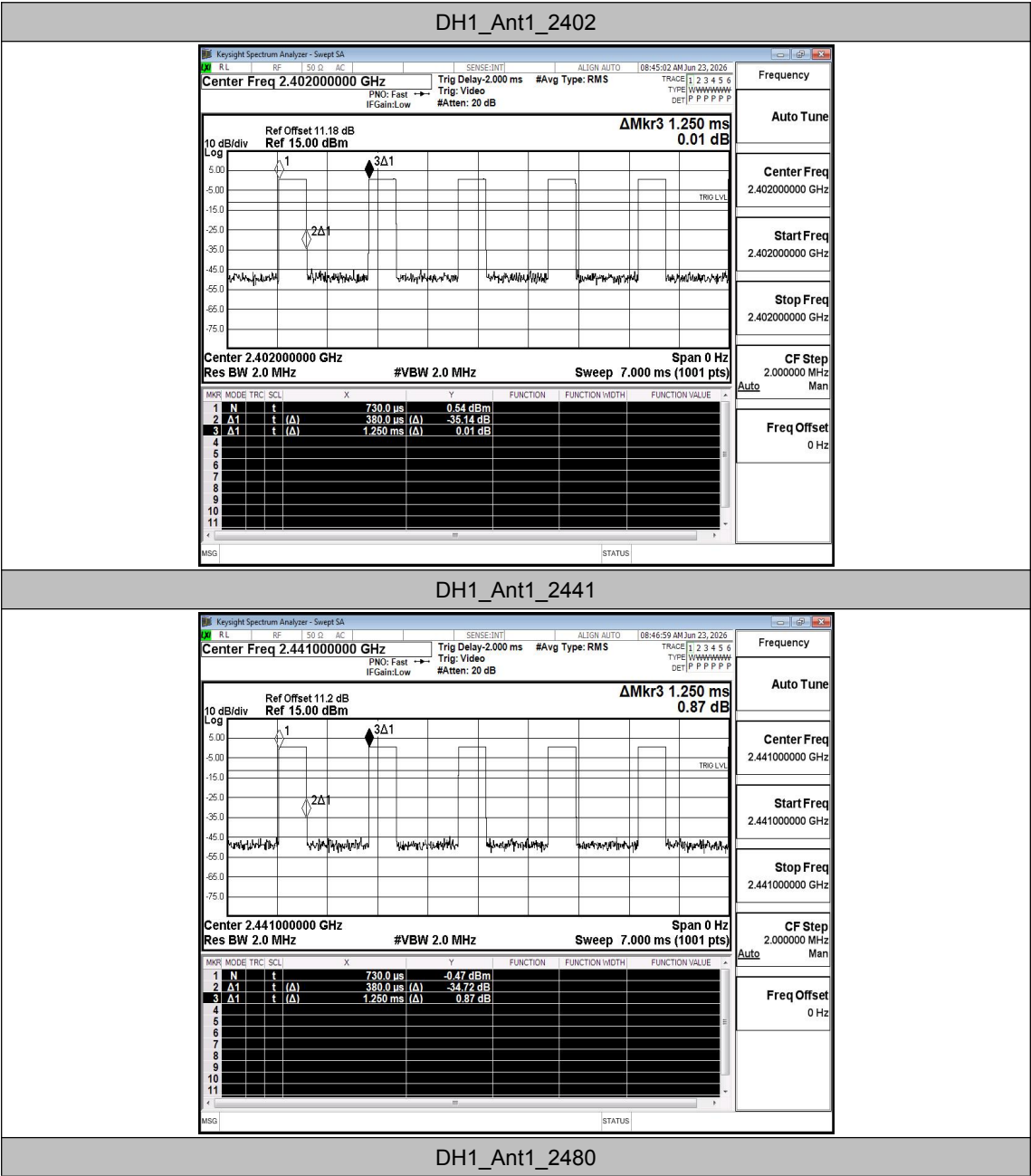


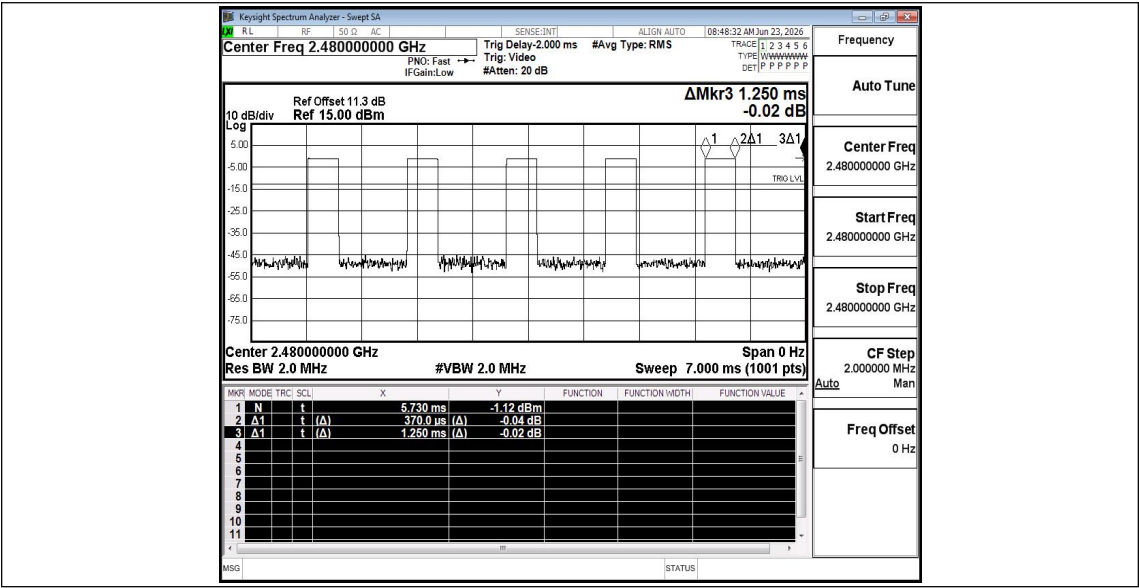
A.8 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH1	Ant1	2402	0.38	1.25	30.40	5.17	---	---
		2441	0.38	1.25	30.40	5.17	---	---
		2480	0.37	1.25	29.60	5.29	---	---

Test Graphs





A.9 Emissions in Restricted Bands

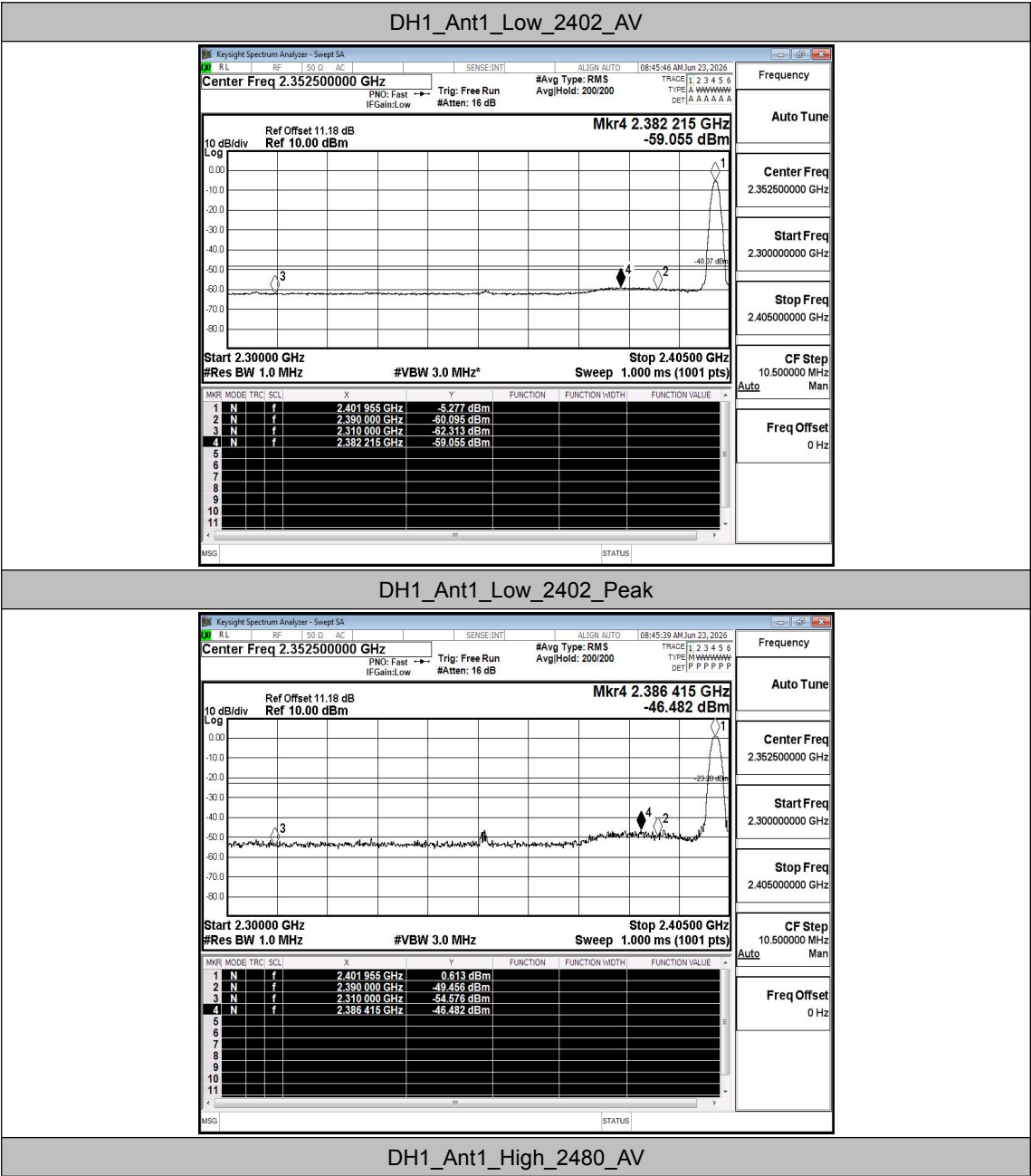
Test Result

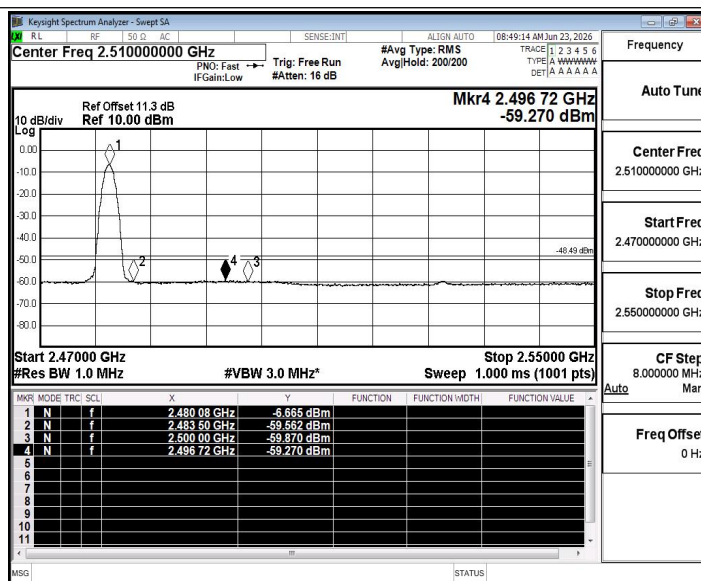
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBUV/m]	Limit [dBUV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-62.31	≤-48.37	2.00	5.17	40.06	≤54	PASS
				AV	2382.215	-59.06	≤-48.37	2.00	5.17	43.31	≤54	PASS
				AV	2390.000	-60.1	≤-48.37	2.00	5.17	42.27	≤54	PASS
				Peak	2310.000	-54.58	≤-23.20	2.00	0.00	42.62	≤74	PASS
				Peak	2386.415	-46.48	≤-23.20	2.00	0.00	50.72	≤74	PASS
				Peak	2390.000	-49.46	≤-23.20	2.00	0.00	47.74	≤74	PASS
		High	2480	AV	2483.500	-59.56	≤-48.49	2.00	5.29	42.93	≤54	PASS
				AV	2496.720	-59.27	≤-48.49	2.00	5.29	43.22	≤54	PASS
				AV	2500.000	-59.87	≤-48.49	2.00	5.29	42.62	≤54	PASS
				Peak	2483.500	-49.86	≤-23.20	2.00	0.00	47.34	≤74	PASS
				Peak	2496.160	-47.8	≤-23.20	2.00	0.00	49.40	≤74	PASS
				Peak	2500.000	-48.63	≤-23.20	2.00	0.00	48.57	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-54.62	≤-23.20	2.00	0.00	42.58	≤74	PASS
				Peak	2388.200	-45.99	≤-23.20	2.00	0.00	51.21	≤74	PASS
				Peak	2390.000	-50.64	≤-23.20	2.00	0.00	46.56	≤74	PASS
		High	Hop_2480	Peak	2483.500	-49.69	≤-23.20	2.00	0.00	47.51	≤74	PASS
				Peak	2498.240	-46.87	≤-23.20	2.00	0.00	50.33	≤74	PASS
				Peak	2500.000	-53.13	≤-23.20	2.00	0.00	44.07	≤74	PASS

Note:

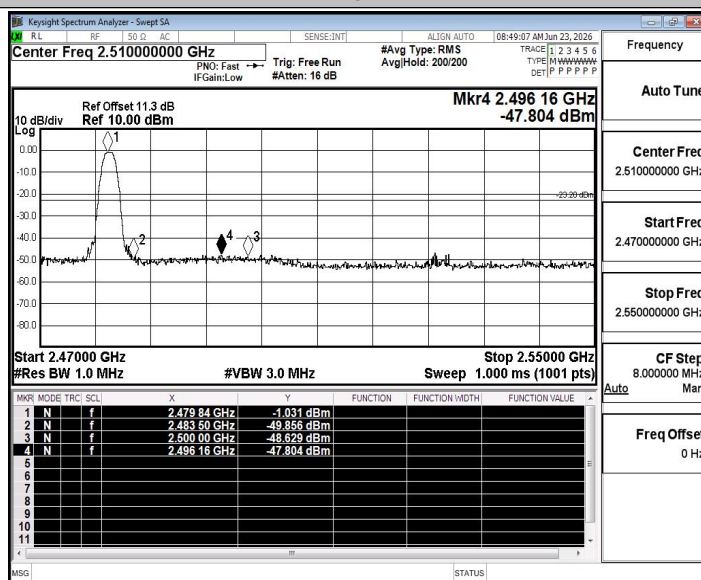
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBUV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





DH1 Ant1 High 2480 Peak



DH1 Ant1 Low Hop 2402 Peak

