

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: wireless mouse
Test Model: HM8126

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

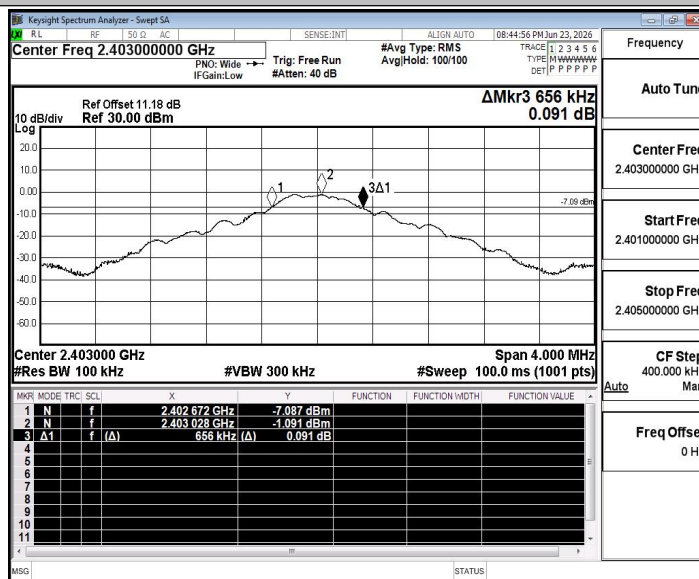
A.1 6dB Bandwidth

Test Result

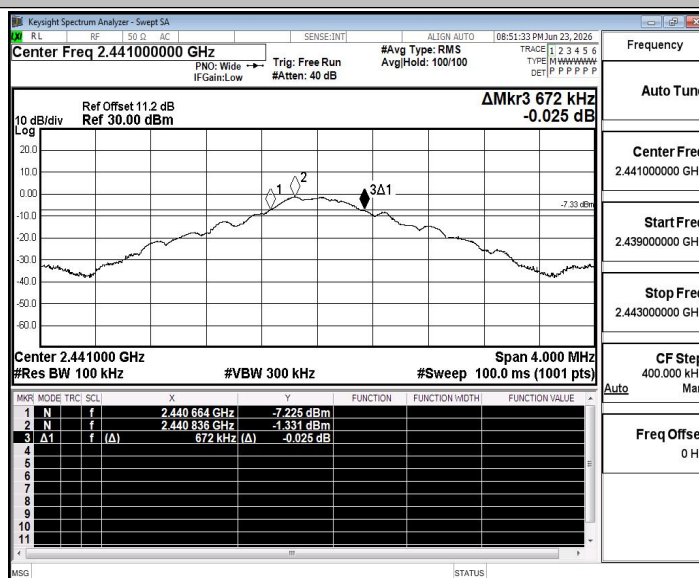
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	0.656	2402.672	2403.328	0.5	PASS
		2441	0.672	2440.664	2441.336	0.5	PASS
		2479	0.700	2478.648	2479.348	0.5	PASS

Test Graphs

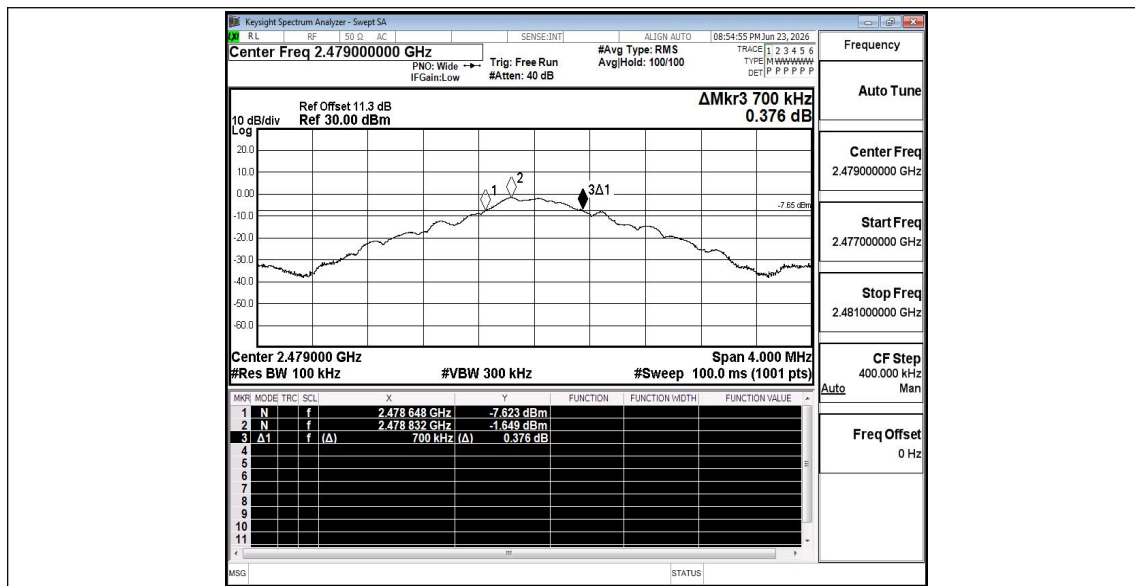
2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479



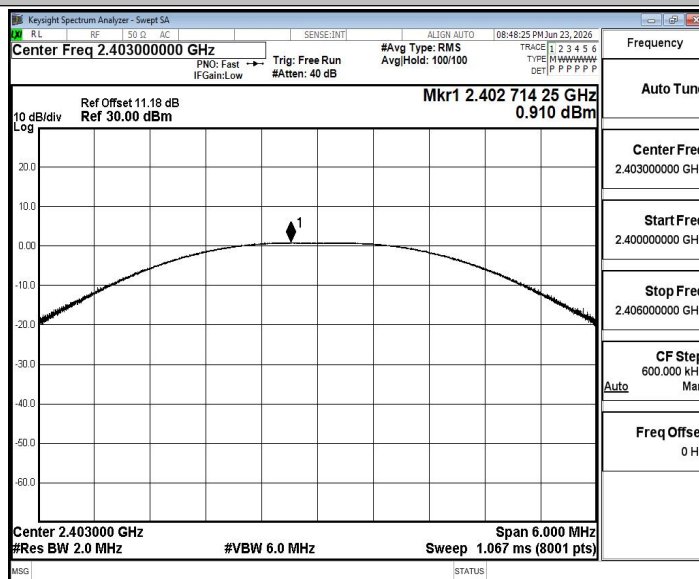
A.2 Maximum Peak conducted output power

Test Result Peak

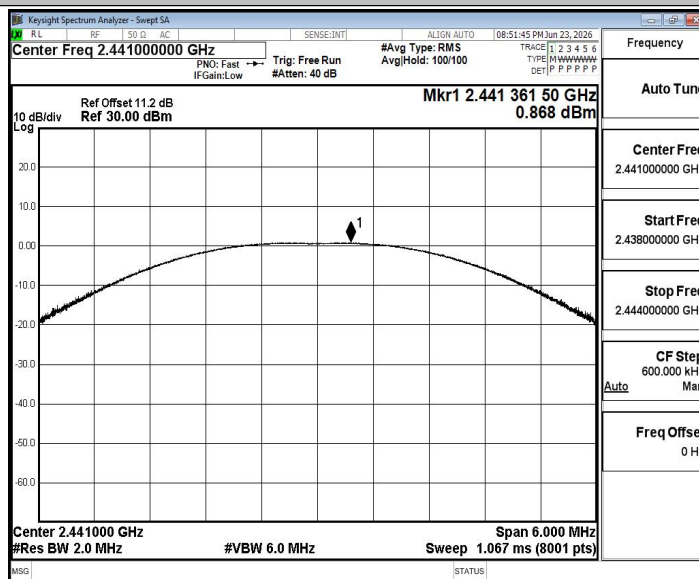
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	0.91	≤30	PASS
		2441	0.87	≤30	PASS
		2479	0.70	≤30	PASS

Test Graphs Peak

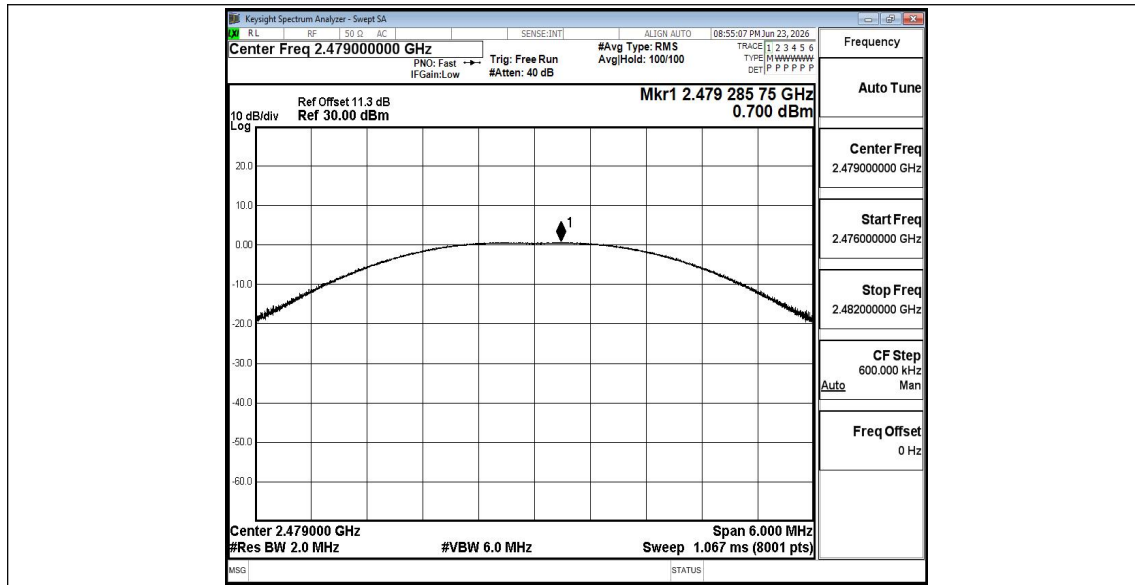
2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479



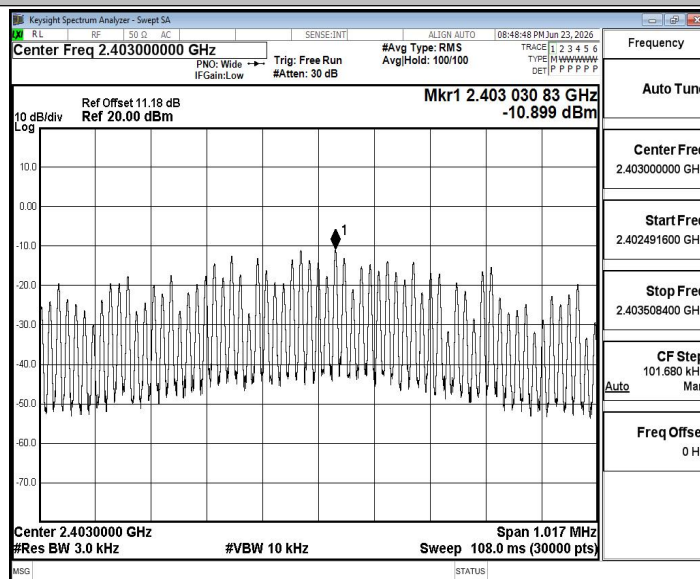
A.3 Maximum power spectral density

Test Result

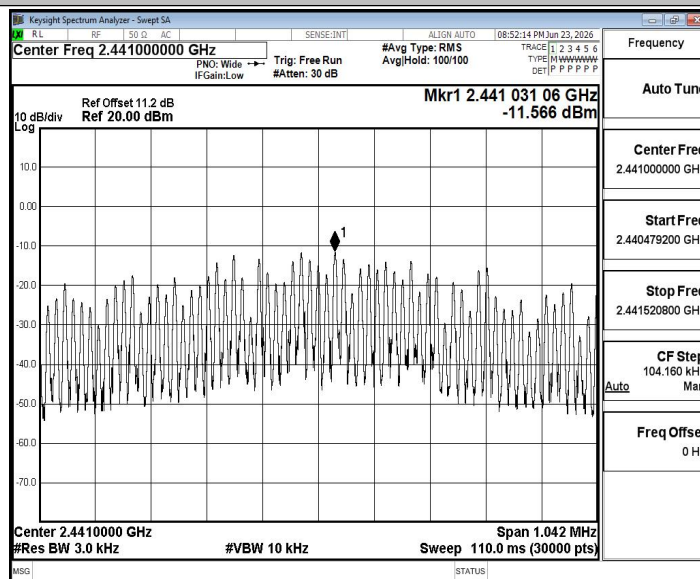
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4G	Ant1	2403	-10.90	≤8.00	PASS
		2441	-11.57	≤8.00	PASS
		2479	-12.21	≤8.00	PASS

Test Graphs

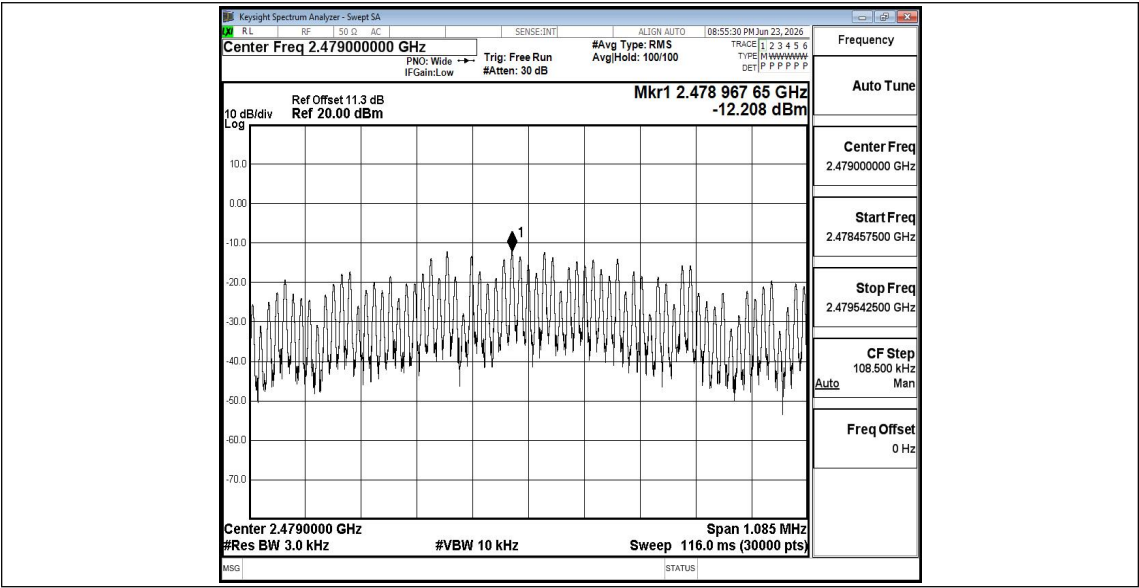
2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479



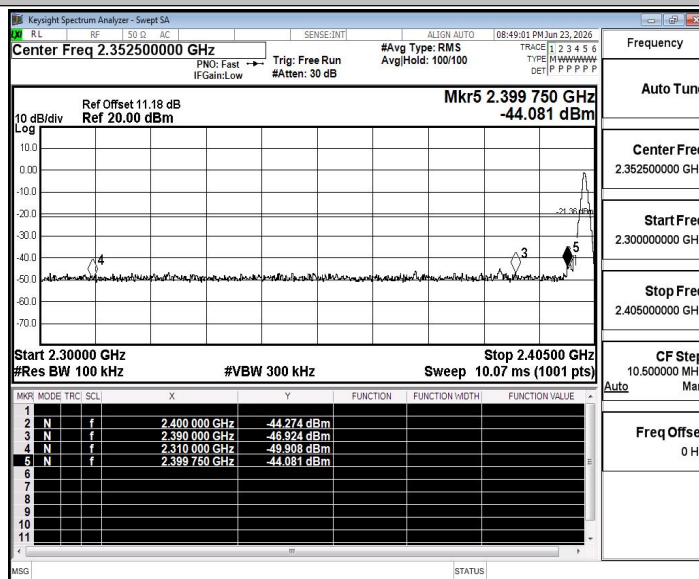
A.4 Band edge measurements

Test Result

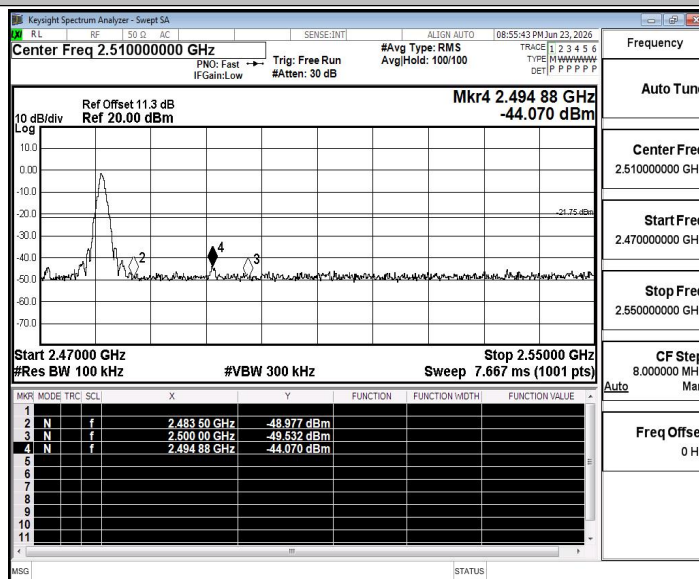
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4G	Ant1	Low	2403	-1.36	-44.08	≤-21.36	PASS
		High	2479	-1.75	-44.07	≤-21.75	PASS

Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2479

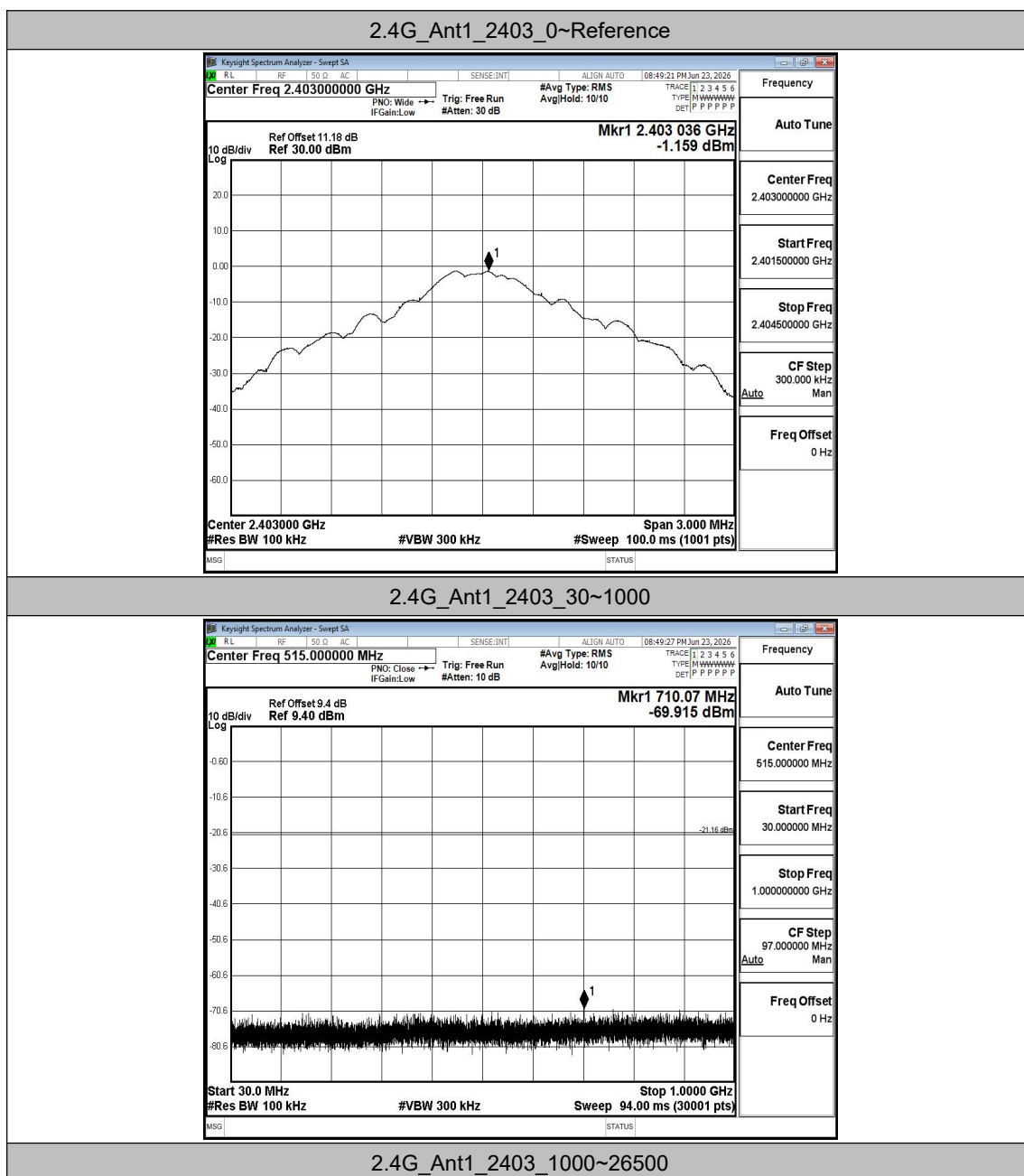


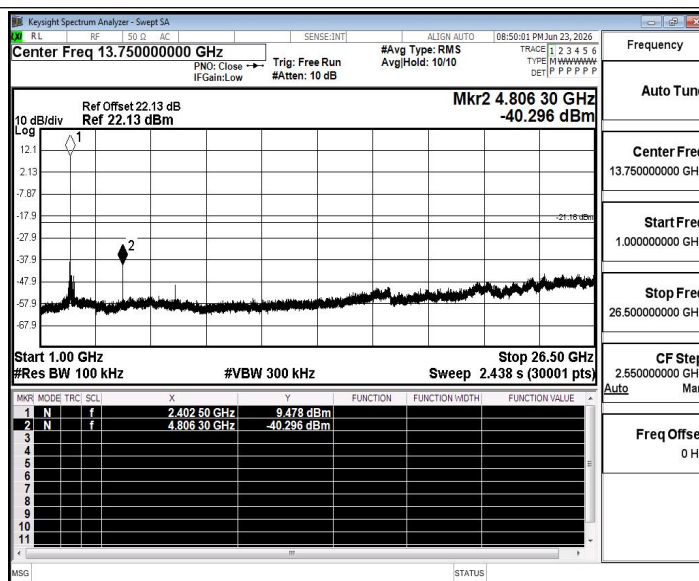
A.5 Conducted Spurious Emission

Test Result

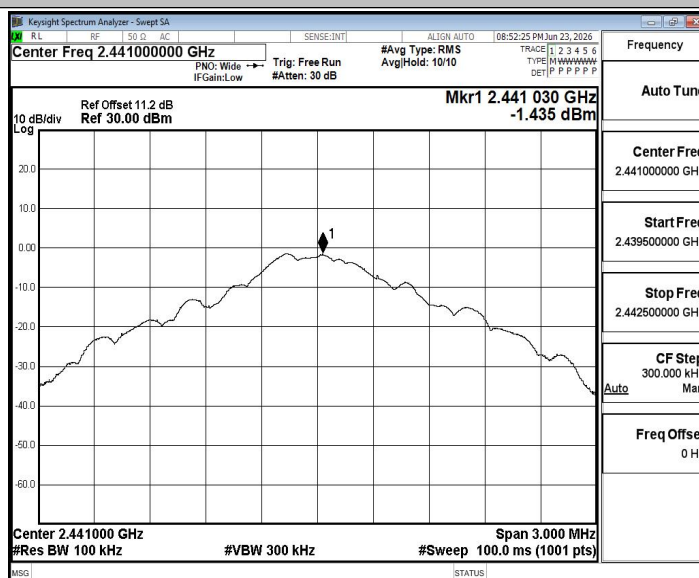
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4G	Ant1	2403	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-69.92	≤-21.16	PASS
			1000~26500	-1.16	-40.3	≤-21.16	PASS
		2441	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-69.65	≤-21.44	PASS
			1000~26500	-1.44	-42.61	≤-21.44	PASS
		2479	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-69.86	≤-21.71	PASS
			1000~26500	-1.71	-37.57	≤-21.71	PASS

Test Graphs

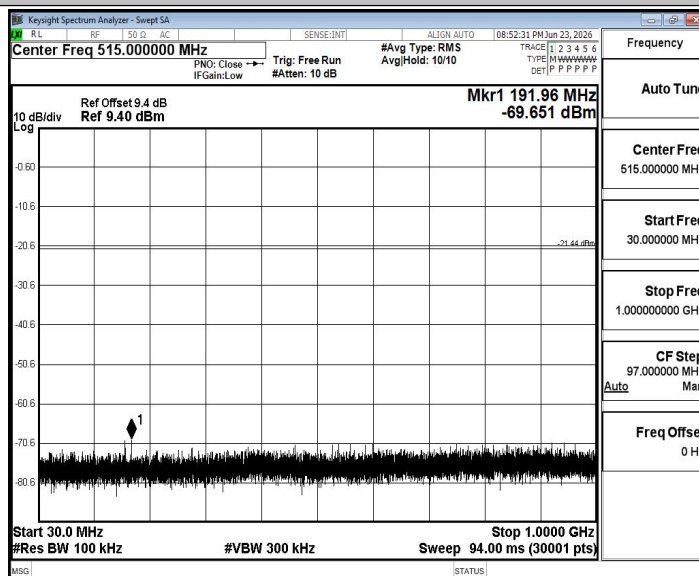




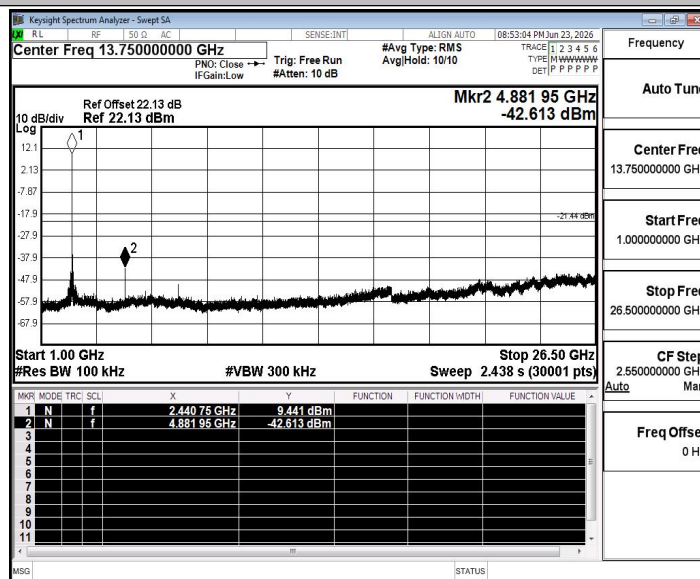
2.4G_Ant1_2441_0~Reference



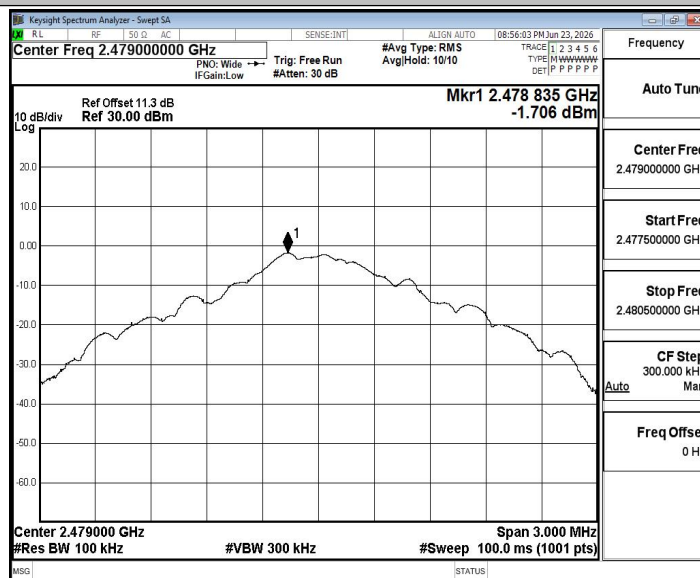
2.4G_Ant1_2441_30~1000



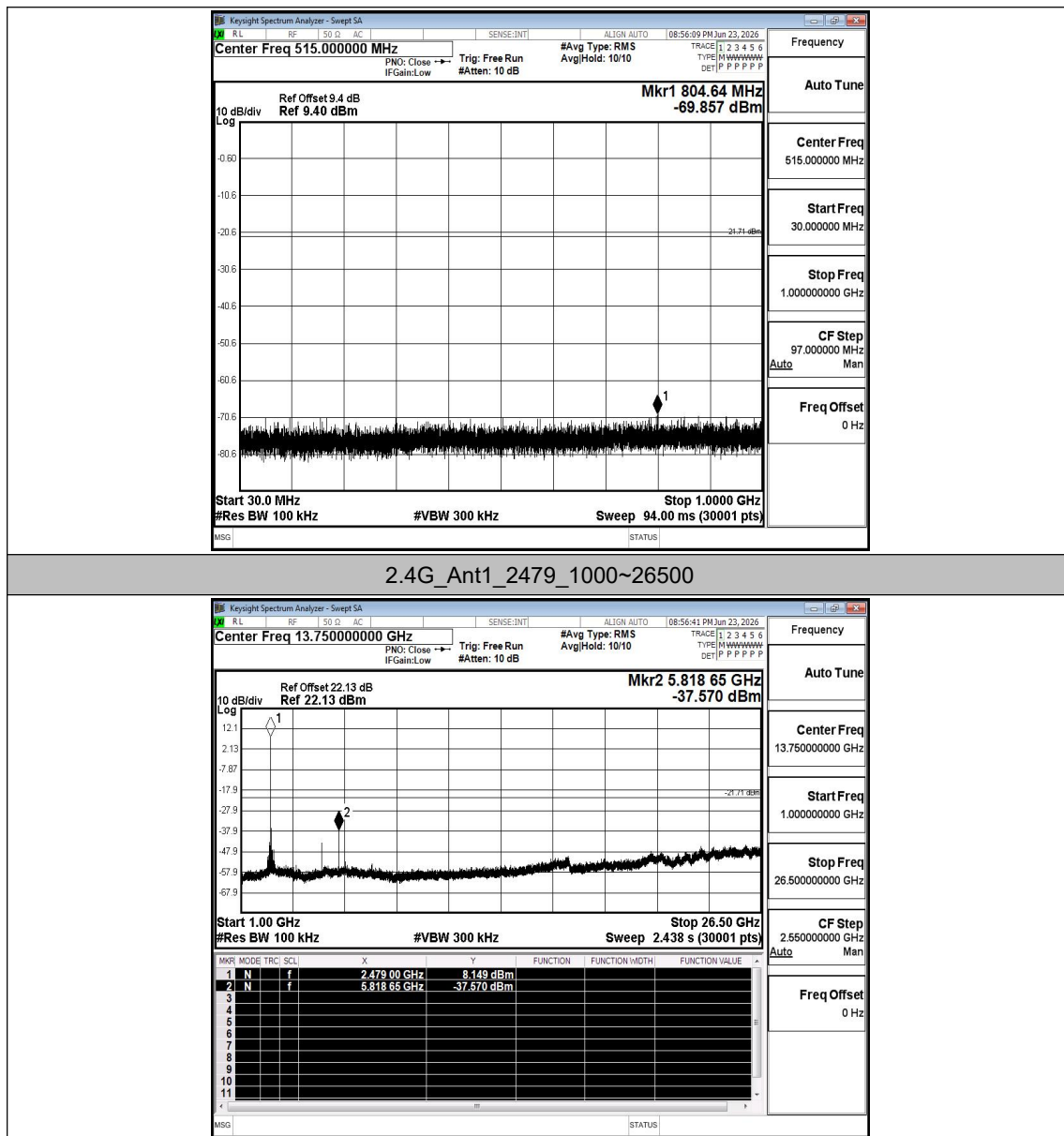
2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2479_0~Reference



2.4G_Ant1_2479_30~1000

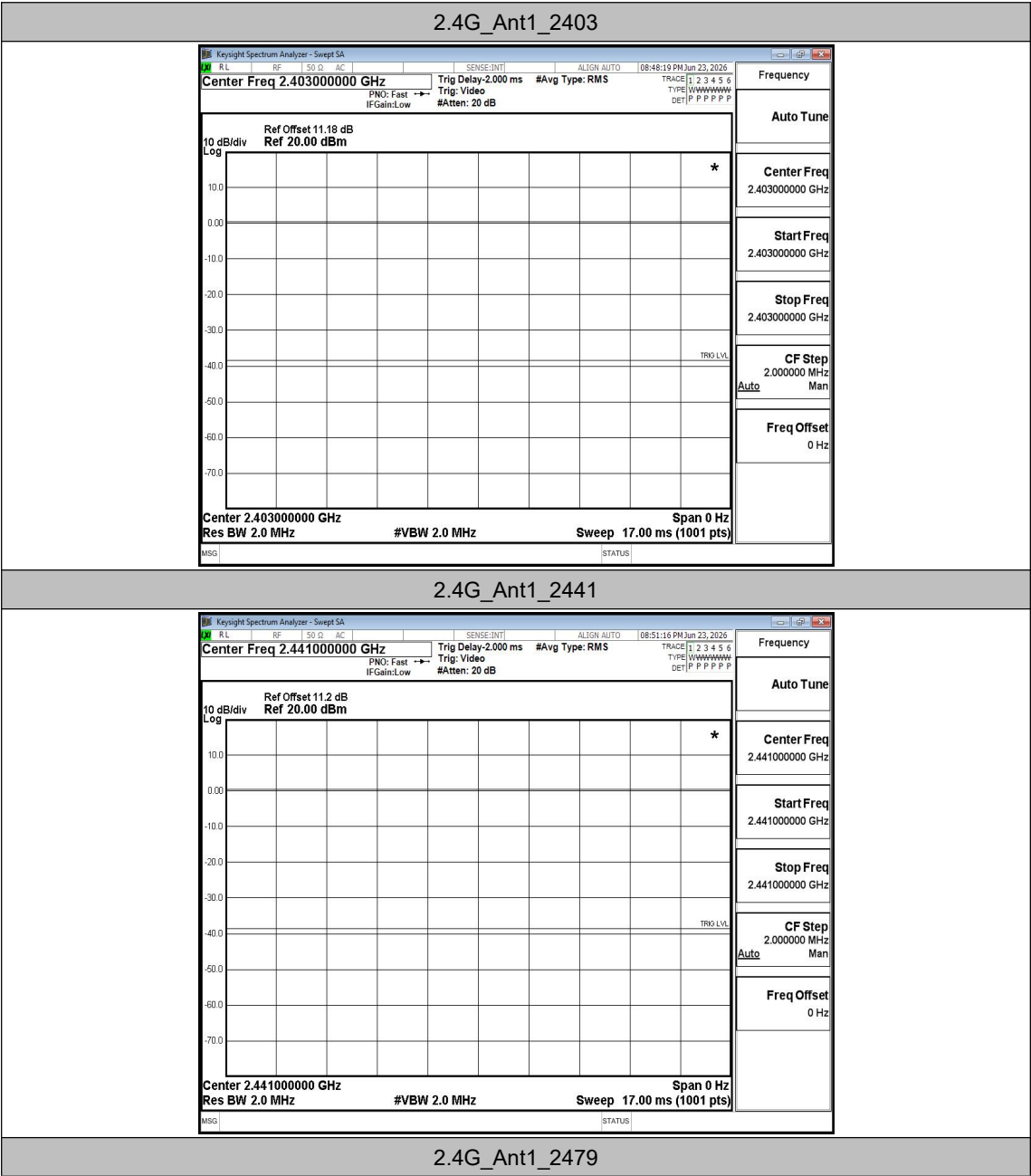


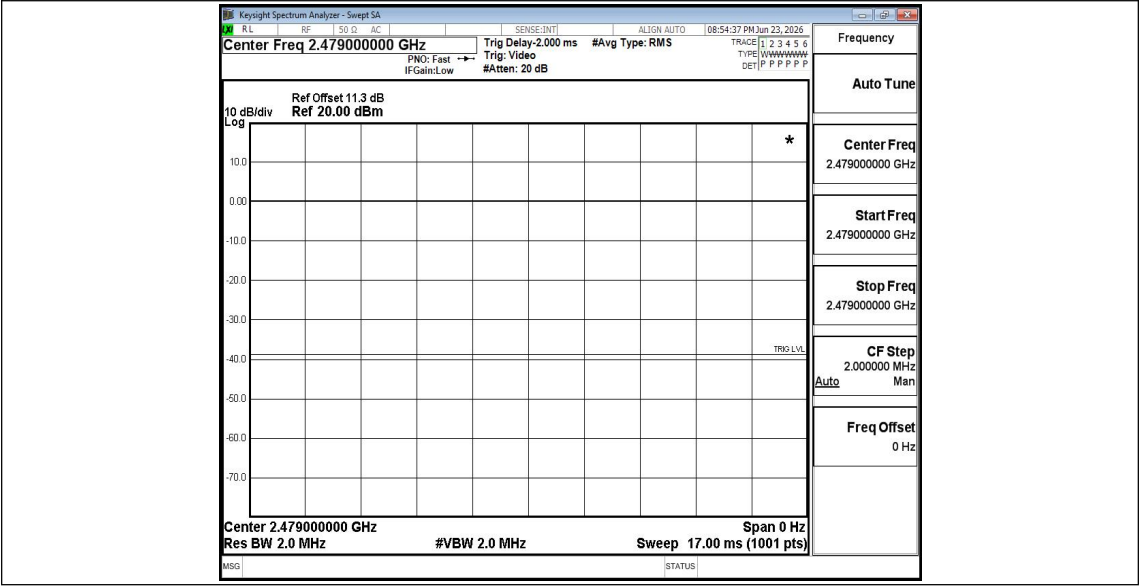
A.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
2.4G	Ant1	2403	0.00	0.00	NaN	100	NaN	---	---
		2441	0.00	0.00	NaN	100	NaN	---	---
		2479	0.00	0.00	NaN	100	NaN	---	---

Test Graphs





A.7 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
2.4G	Ant1	Low	2403	AV	2310.000	-58.59	≤-43.20	2.00	0.00	38.61	≤54	PASS
				AV	2387.045	-46.9	≤-43.20	2.00	0.00	50.30	≤54	PASS
				AV	2390.000	-56.26	≤-43.20	2.00	0.00	40.94	≤54	PASS
				Peak	2310.000	-51.89	≤-23.20	2.00	0.00	45.31	≤74	PASS
				Peak	2386.625	-43.99	≤-23.20	2.00	0.00	53.21	≤74	PASS
				Peak	2390.000	-48.49	≤-23.20	2.00	0.00	48.71	≤74	PASS
		High	2479	AV	2483.500	-52.9	≤-43.20	2.00	0.00	44.30	≤54	PASS
				AV	2495.040	-48.71	≤-43.20	2.00	0.00	48.49	≤54	PASS
				AV	2500.000	-57.03	≤-43.20	2.00	0.00	40.17	≤54	PASS
				Peak	2483.500	-46.13	≤-23.20	2.00	0.00	51.07	≤74	PASS
				Peak	2494.240	-42.3	≤-23.20	2.00	0.00	54.90	≤74	PASS
				Peak	2500.000	-49.94	≤-23.20	2.00	0.00	47.26	≤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

