

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: K5 Max

FCC ID: 2ASF4-K5MAX

Environmental Conditions

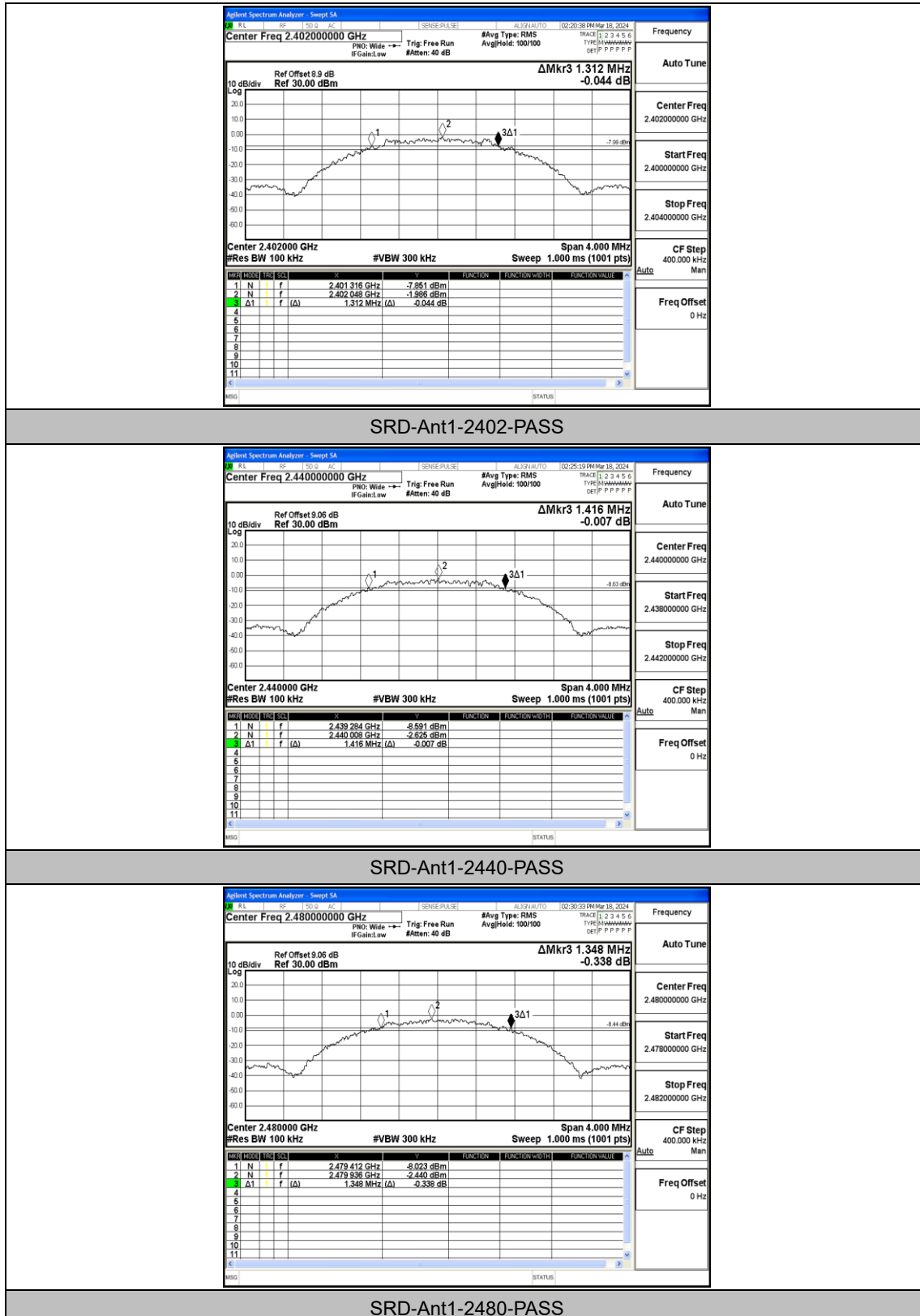
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.312	2401.316	2402.628	0.5	PASS
SRD	Ant1	2440	1.416	2439.284	2440.700	0.5	PASS
SRD	Ant1	2480	1.348	2479.412	2480.760	0.5	PASS

Test Graphs

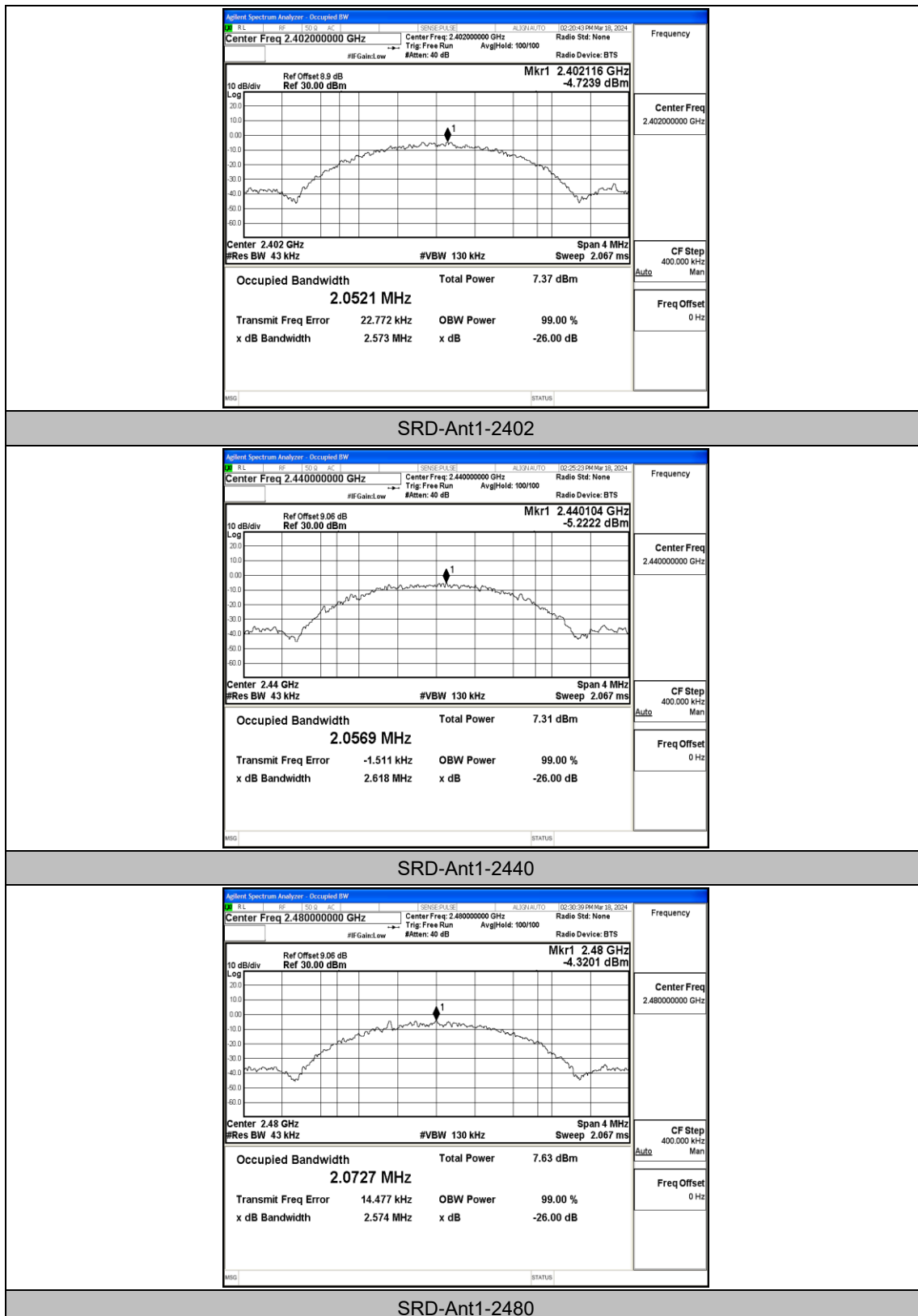


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0521	2400.9967	2403.0488	---	---
SRD	Ant1	2440	2.0569	2438.9700	2441.0269	---	---
SRD	Ant1	2480	2.0727	2478.9781	2481.0508	---	---

Test Graphs

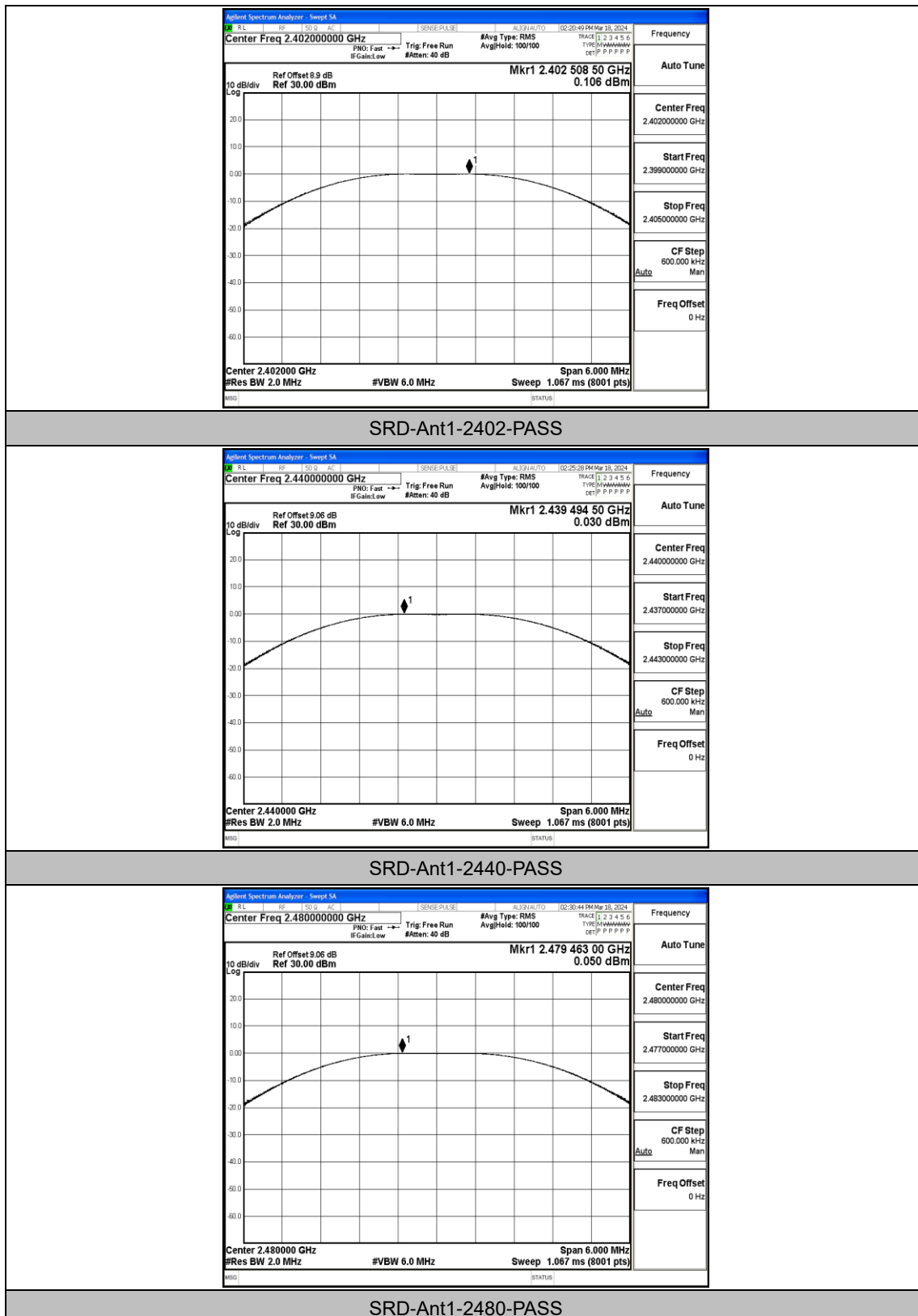


Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	0.11	≤30	PASS
SRD	Ant1	2440	0.03	≤30	PASS
SRD	Ant1	2480	0.05	≤30	PASS

Test Graphs Peak

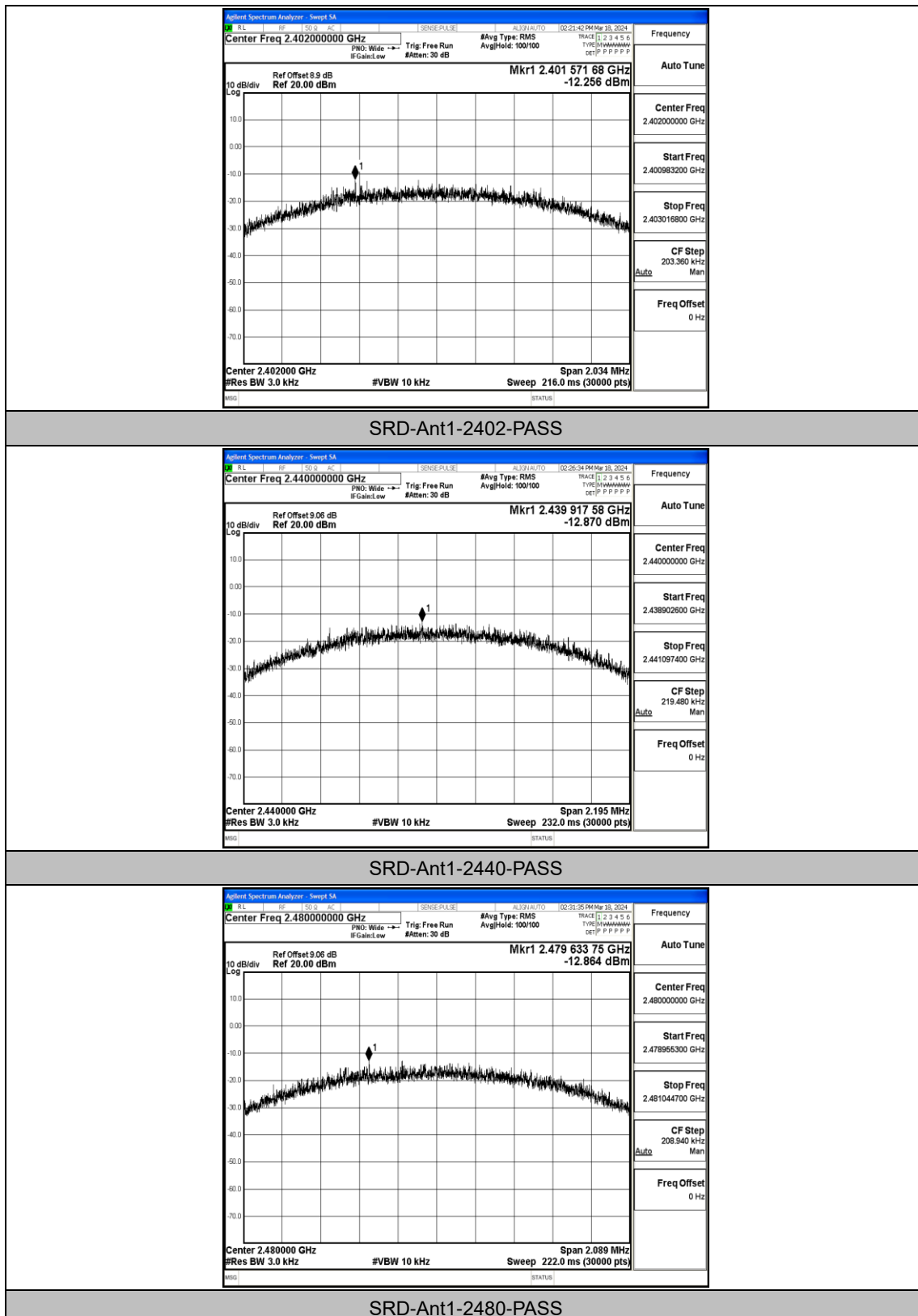


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-12.26	≤8.00	PASS
SRD	Ant1	2440	-12.87	≤8.00	PASS
SRD	Ant1	2480	-12.86	≤8.00	PASS

Test Graphs

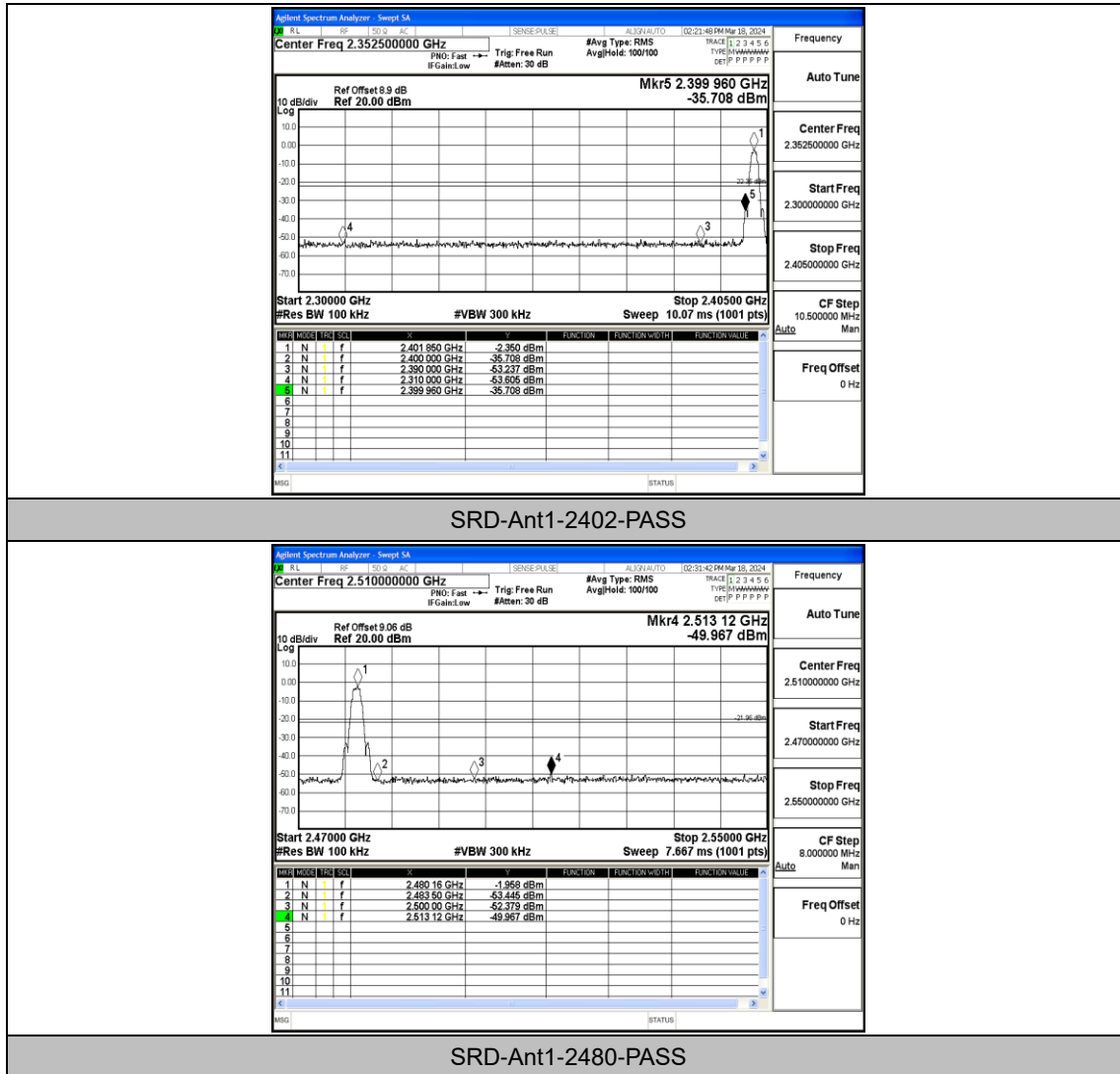


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-2.35	-35.71	≤-22.35	PASS
SRD	Ant1	High	2480	-1.96	-49.97	≤-21.96	PASS

Test Graphs

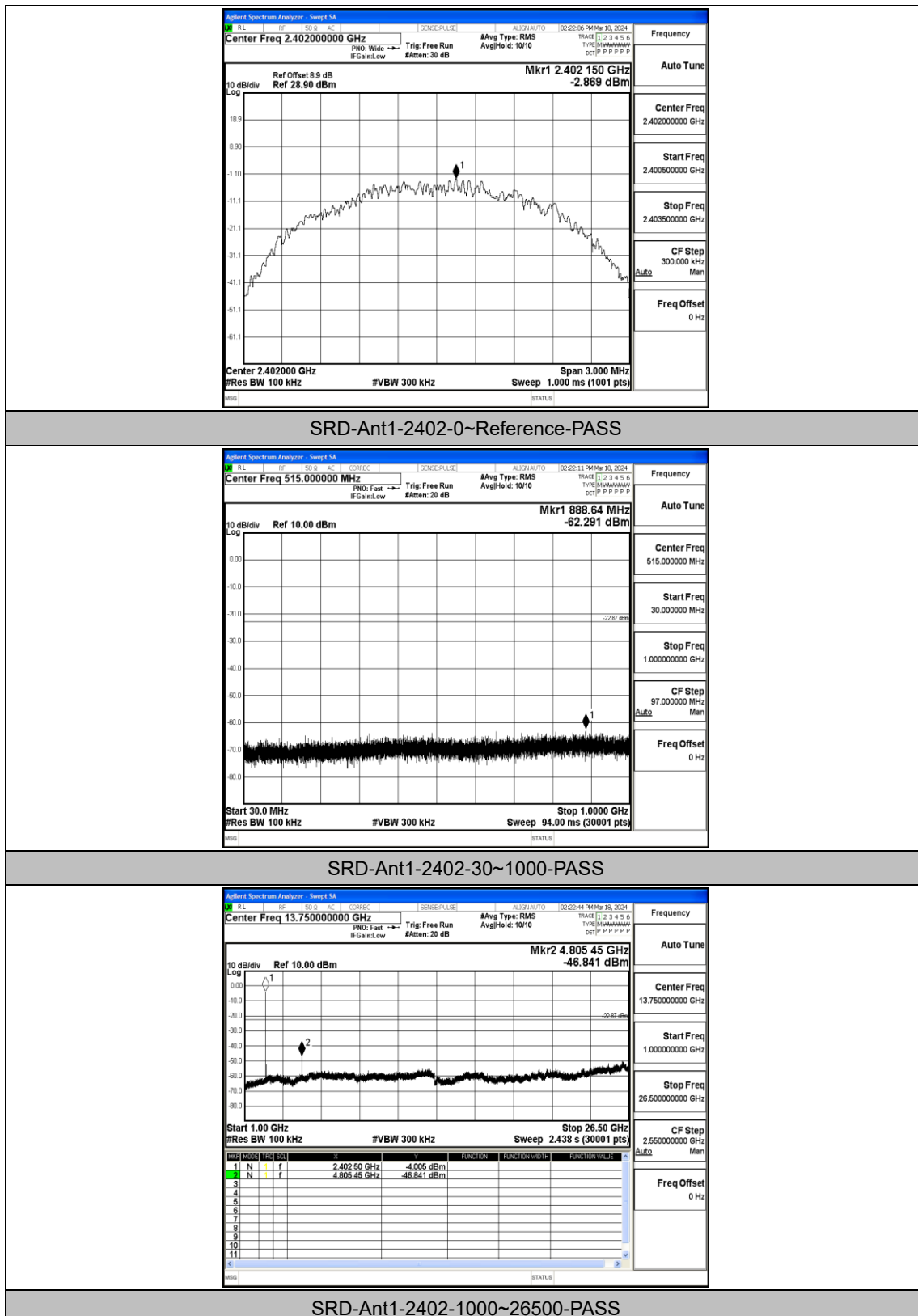


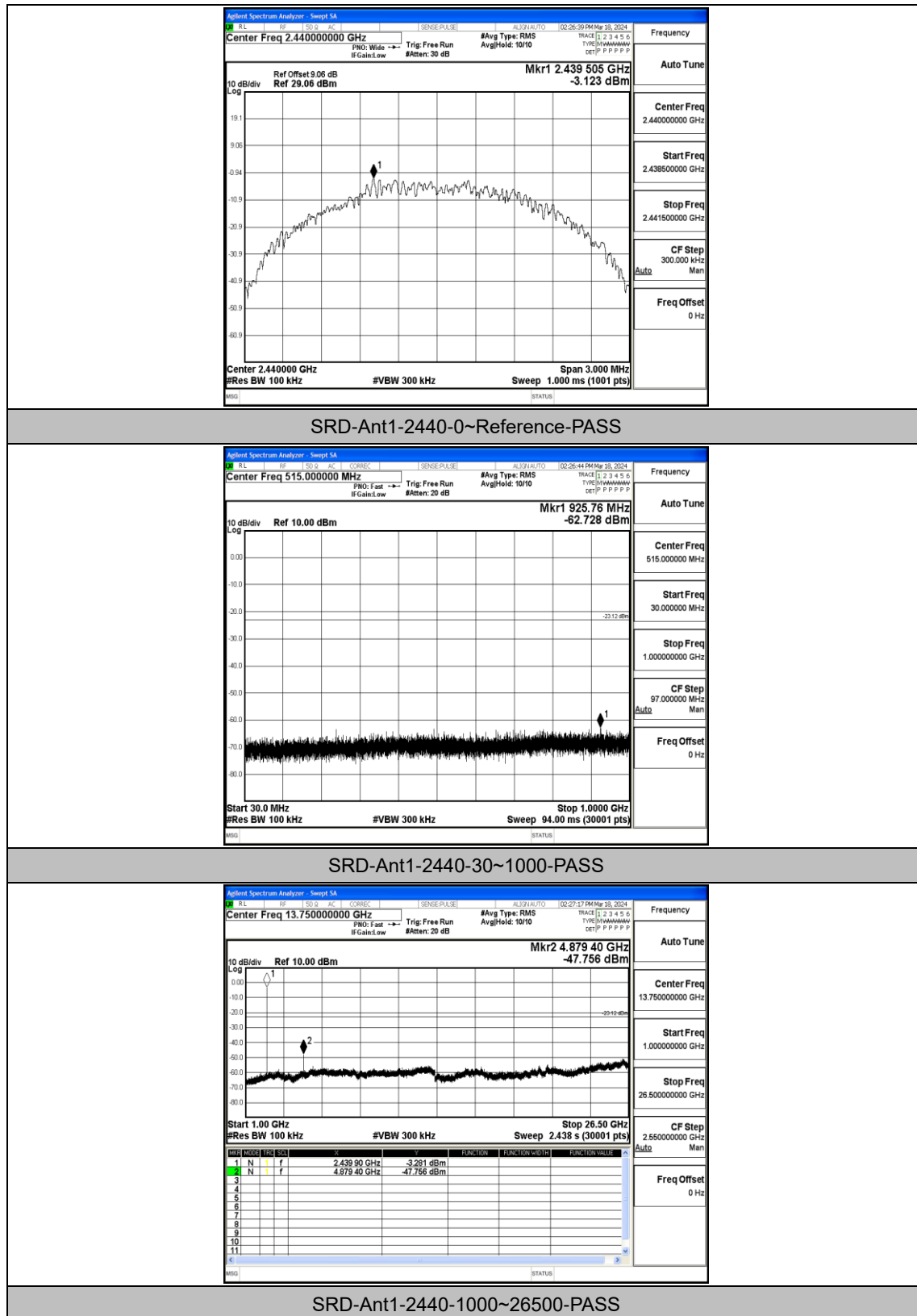
Appendix F: Conducted Spurious Emission

Test Result

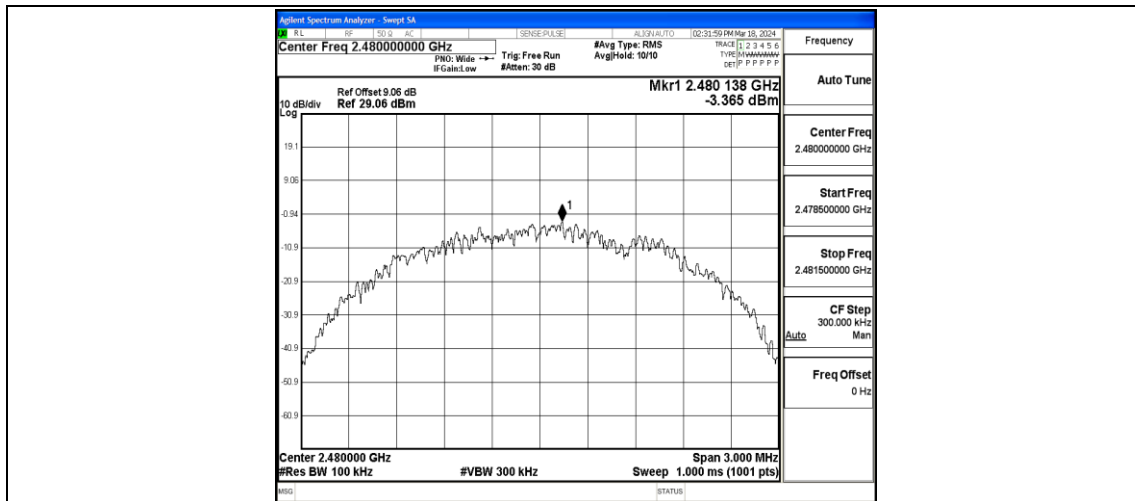
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-2.87	-2.87	---	PASS
SRD	Ant1	2402	30~1000	-2.87	-62.29	≤-22.87	PASS
SRD	Ant1	2402	1000~26500	-2.87	-46.84	≤-22.87	PASS
SRD	Ant1	2440	0~Reference	-3.12	-3.12	---	PASS
SRD	Ant1	2440	30~1000	-3.12	-62.73	≤-23.12	PASS
SRD	Ant1	2440	1000~26500	-3.12	-47.76	≤-23.12	PASS
SRD	Ant1	2480	0~Reference	-3.37	-3.37	---	PASS
SRD	Ant1	2480	30~1000	-3.37	-62.97	≤-23.37	PASS
SRD	Ant1	2480	1000~26500	-3.37	-48.72	≤-23.37	PASS

Test Graphs

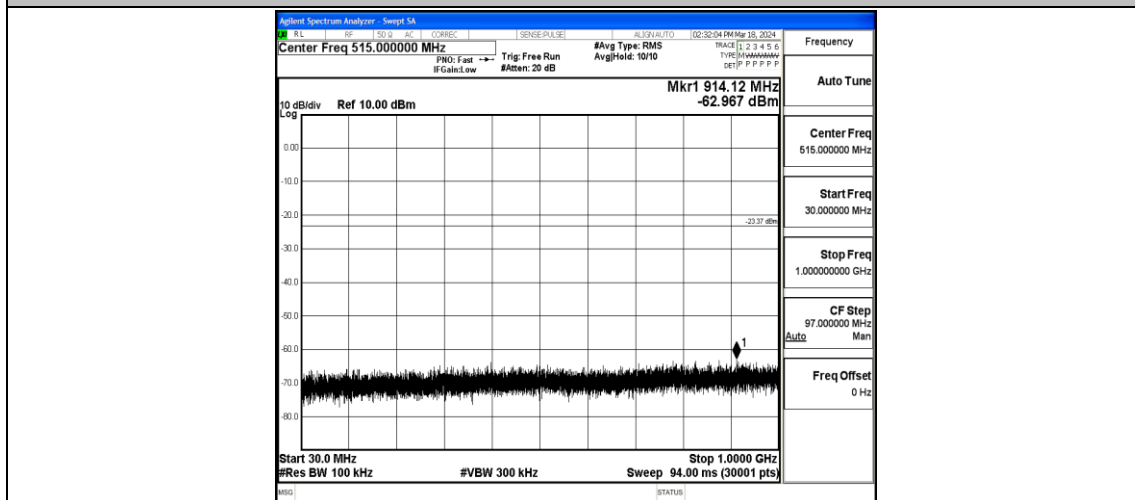




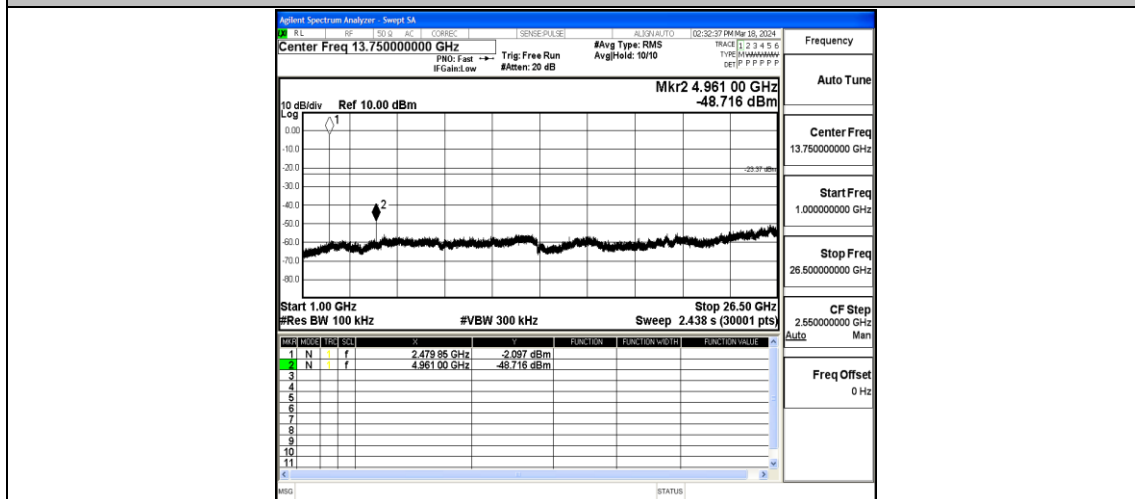
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



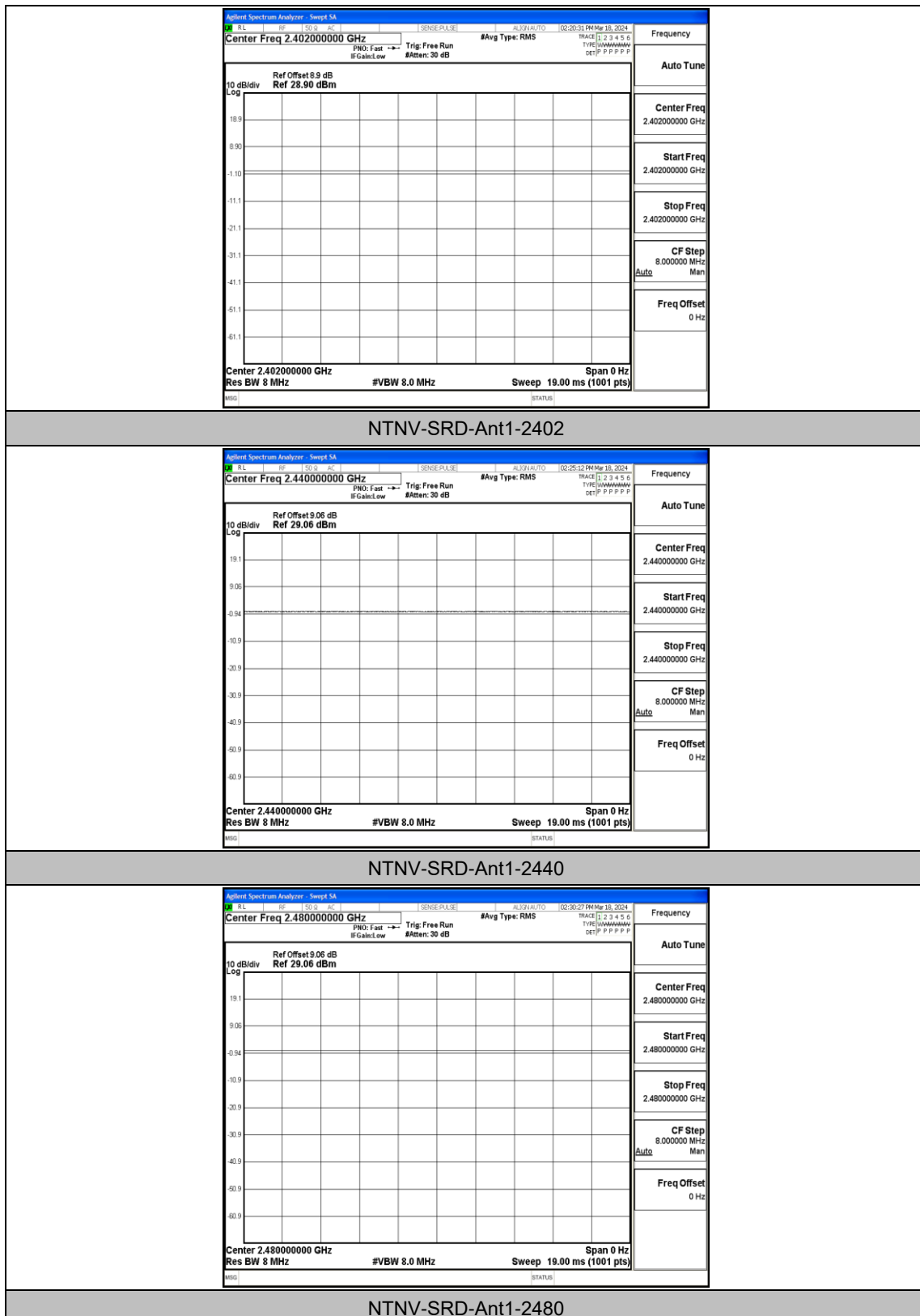
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	2402	19.00	19.00	19.00	NaN
SRD	Ant1	2440	19.00	19.00	19.00	NaN
SRD	Ant1	2480	19.00	19.00	19.00	NaN

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
SRD	Ant1	Low	2402	Peak	2390.000	-46.17	≤-21.20	49.03	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-44.44	≤-21.20	50.76	≤74	PASS
SRD	Ant1	Low	2402	Peak	2347.985	-38.83	≤-21.20	56.37	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-49.94	≤-41.20	45.26	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-51.06	≤-41.20	44.14	≤54	PASS
SRD	Ant1	Low	2402	AV	2383.055	-49.58	≤-41.20	45.62	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-44.64	≤-21.20	50.56	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-42.44	≤-21.20	52.76	≤74	PASS
SRD	Ant1	High	2480	Peak	2490.480	-40.29	≤-21.20	54.91	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-49.7	≤-41.20	45.50	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-49.57	≤-41.20	45.63	≤54	PASS
SRD	Ant1	High	2480	AV	2498.320	-49	≤-41.20	46.20	≤54	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

