

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K4 HE

FCC ID: 2BGKB-K4HE

Environmental Conditions

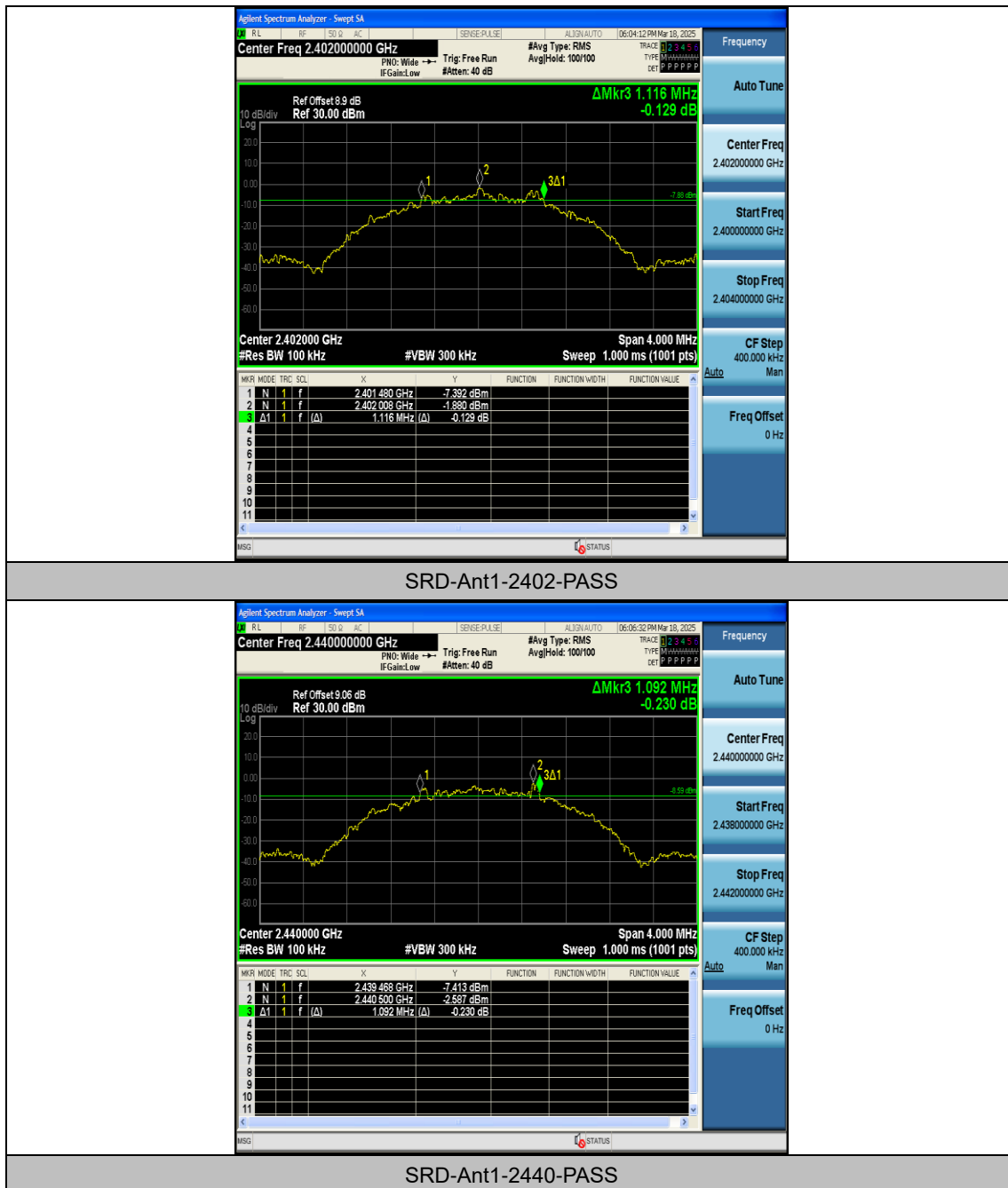
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2402	1.116	2401.480	2402.596	0.5	PASS
SRD	Ant1	2440	1.092	2439.468	2440.560	0.5	PASS
SRD	Ant1	2480	1.068	2479.488	2480.556	0.5	PASS

Test Graphs



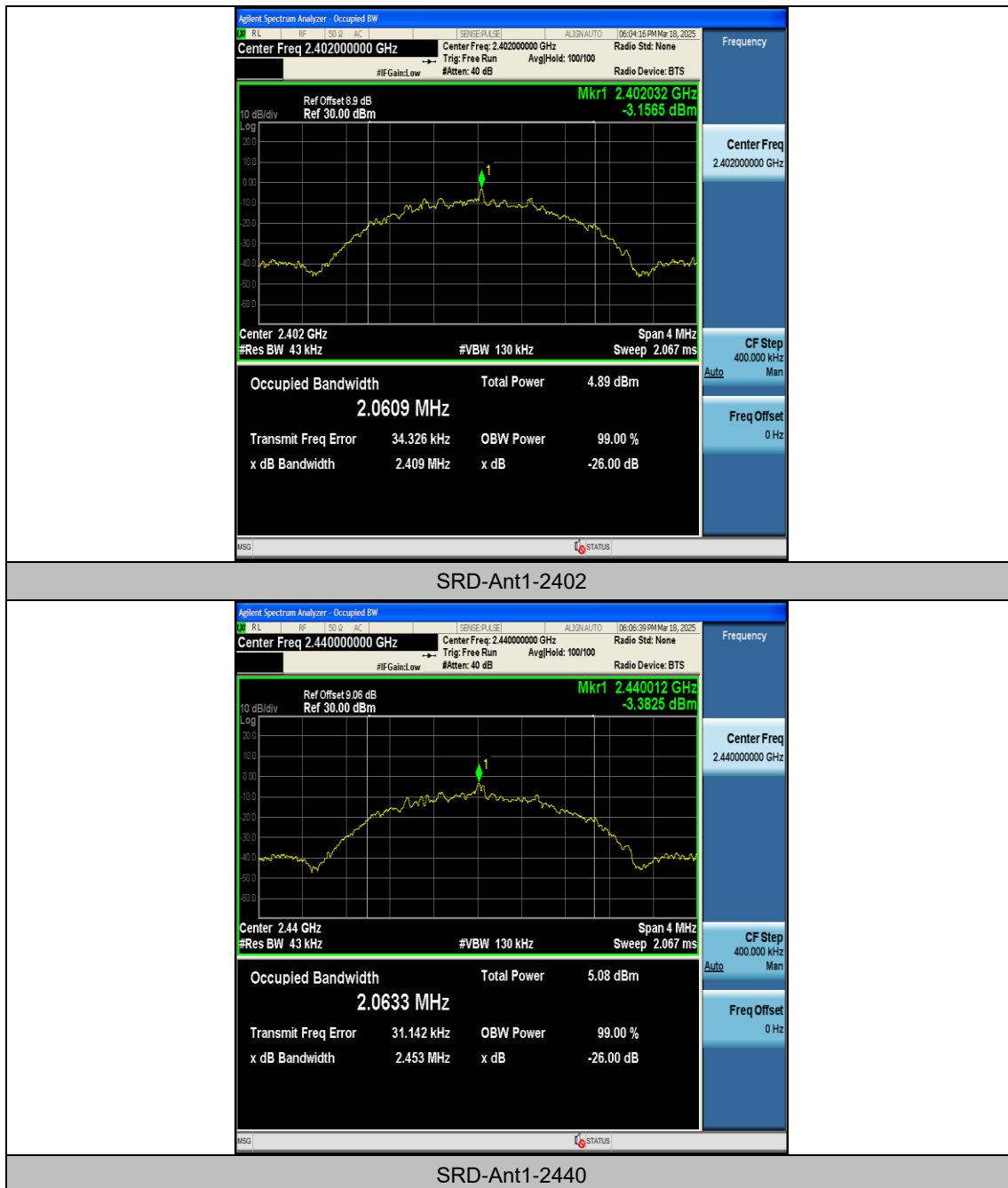


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2402	2.0609	2401.0039	2403.0648	---	---
SRD	Ant1	2440	2.0633	2438.9995	2441.0628	---	---
SRD	Ant1	2480	2.0736	2478.9897	2481.0633	---	---

Test Graphs



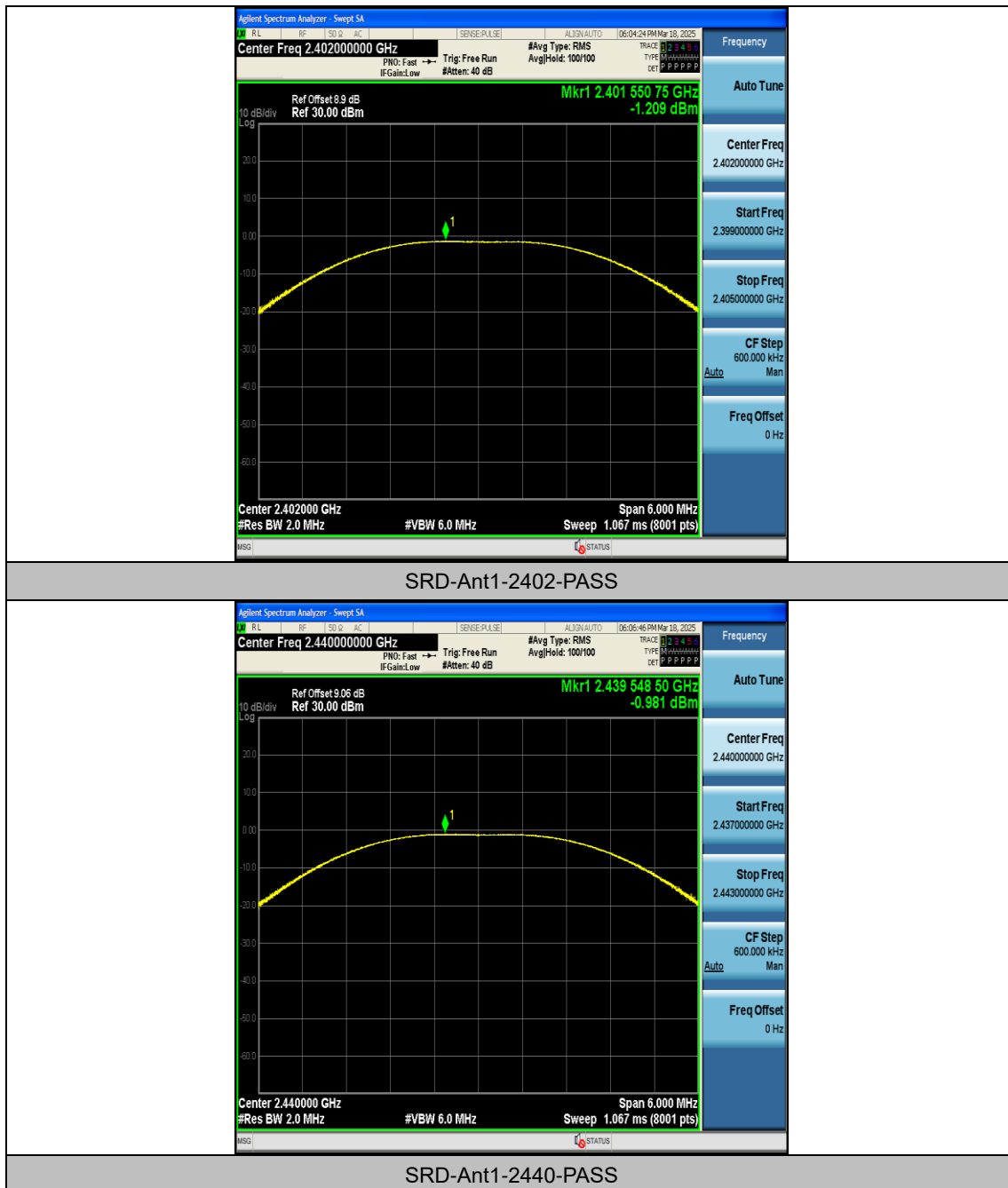


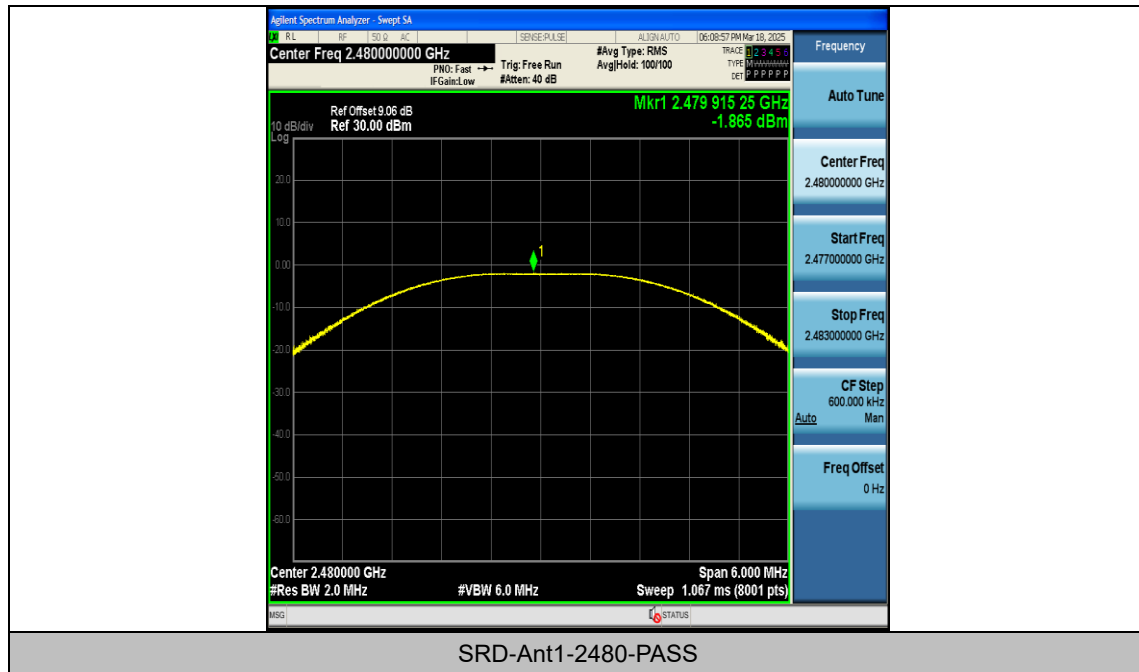
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2402	-1.21	≤30	PASS
SRD	Ant1	2440	-0.98	≤30	PASS
SRD	Ant1	2480	-1.87	≤30	PASS

Test Graphs Peak



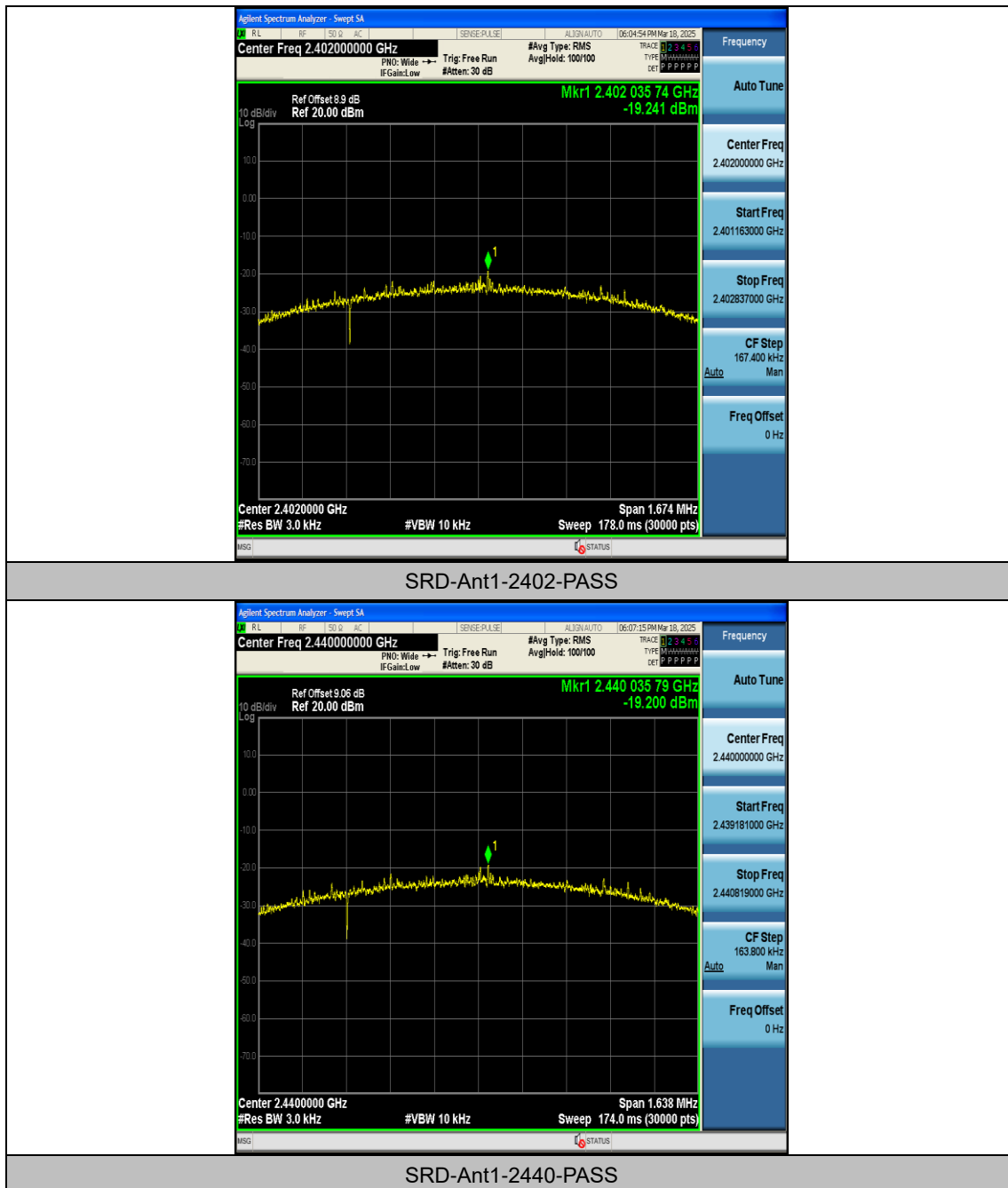


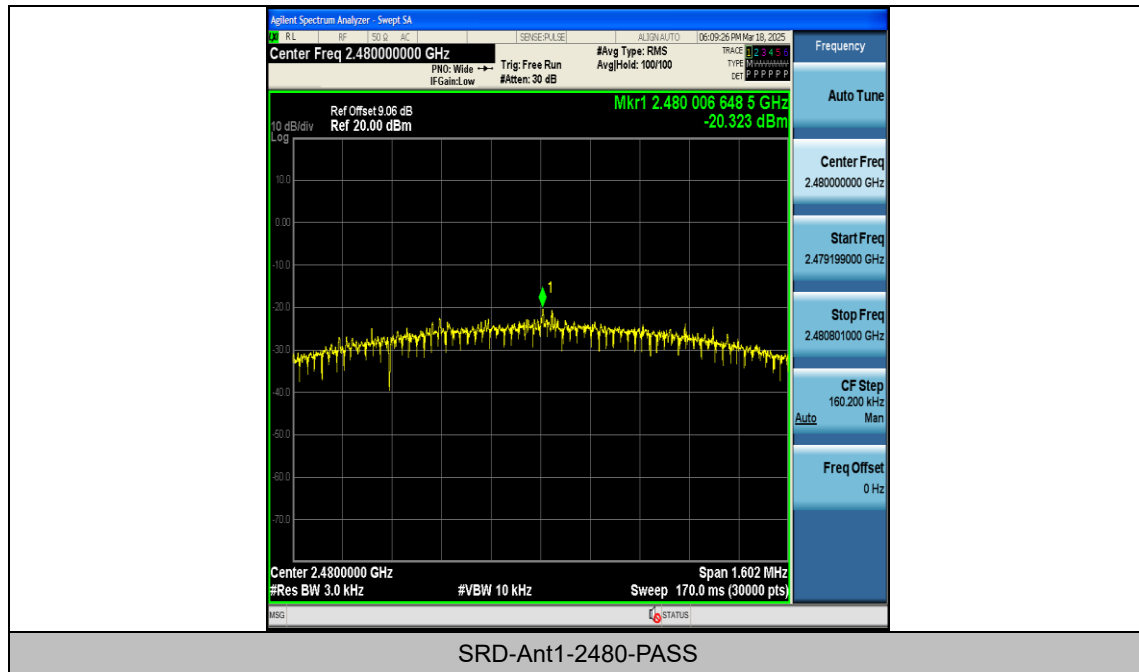
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2402	-19.24	≤8.00	PASS
SRD	Ant1	2440	-19.20	≤8.00	PASS
SRD	Ant1	2480	-20.32	≤8.00	PASS

Test Graphs



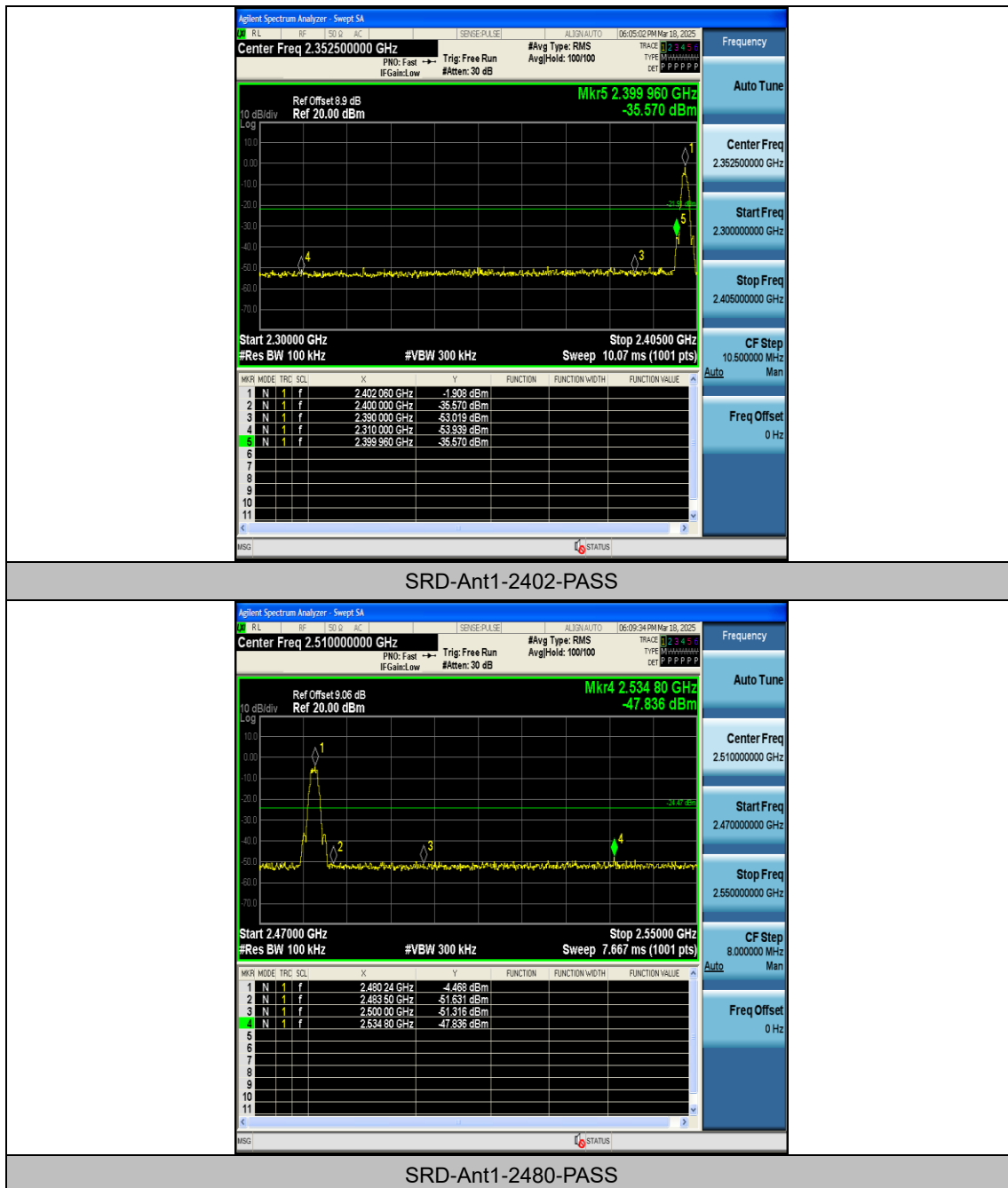


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	-1.91	-35.57	≤ -21.91	PASS
SRD	Ant1	High	2480	-4.47	-47.84	≤ -24.47	PASS

Test Graphs

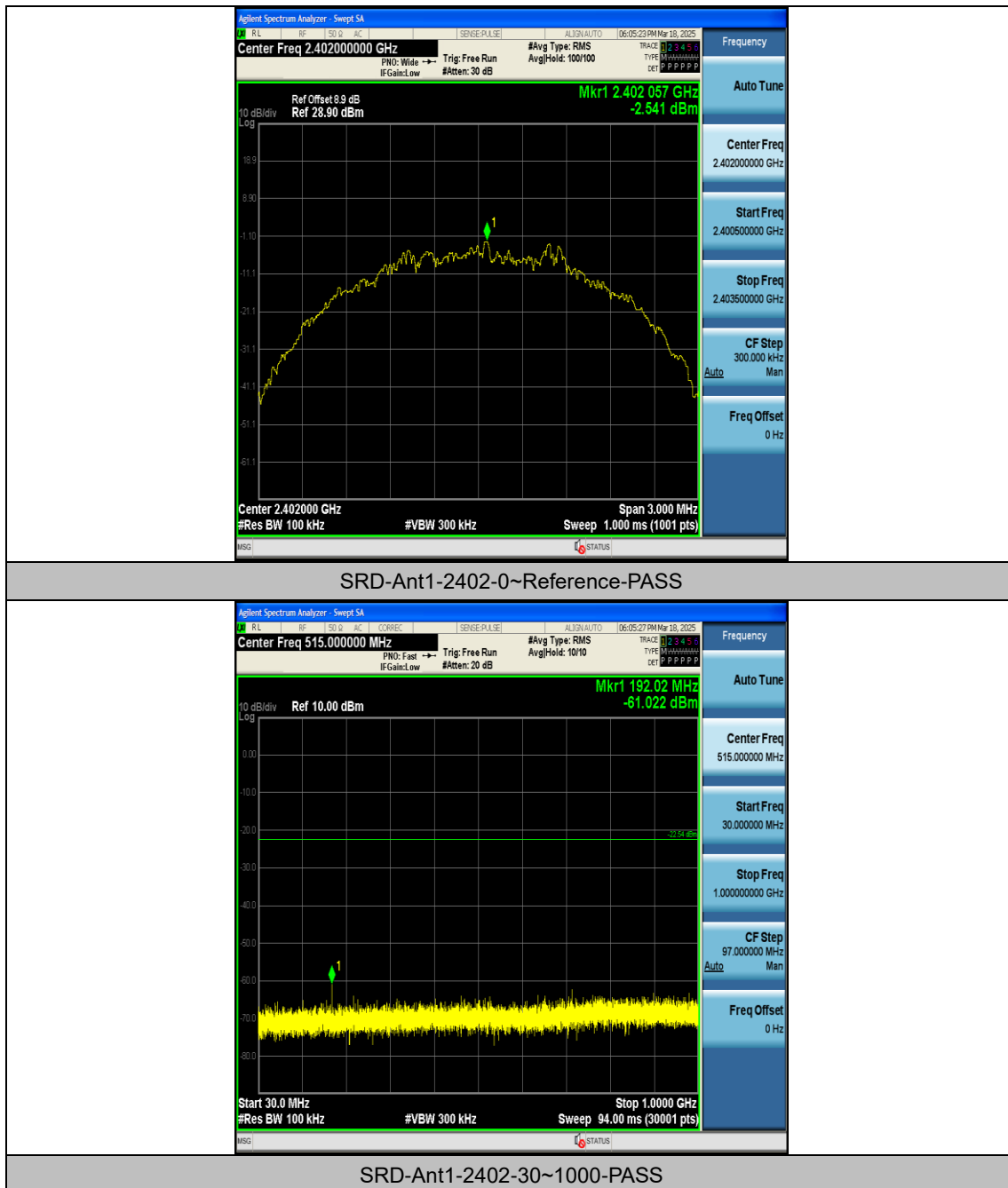


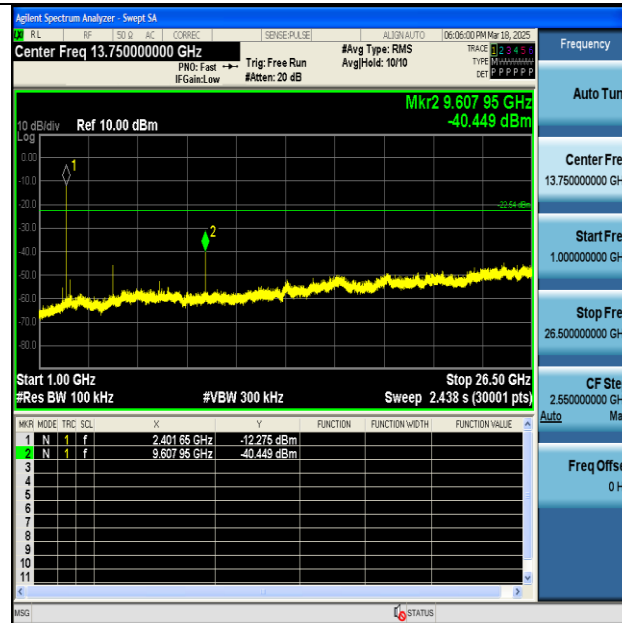
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2402	0~Reference	-2.54	-2.54	---	PASS
SRD	Ant1	2402	30~1000	-2.54	-61.02	≤ -22.54	PASS
SRD	Ant1	2402	1000~26500	-2.54	-40.45	≤ -22.54	PASS
SRD	Ant1	2440	0~Reference	-2.54	-2.54	---	PASS
SRD	Ant1	2440	30~1000	-2.54	-61.82	≤ -22.54	PASS
SRD	Ant1	2440	1000~26500	-2.54	-38.07	≤ -22.54	PASS
SRD	Ant1	2480	0~Reference	-2.57	-2.57	---	PASS
SRD	Ant1	2480	30~1000	-2.57	-62.16	≤ -22.57	PASS
SRD	Ant1	2480	1000~26500	-2.57	-40.41	≤ -22.57	PASS

Test Graphs

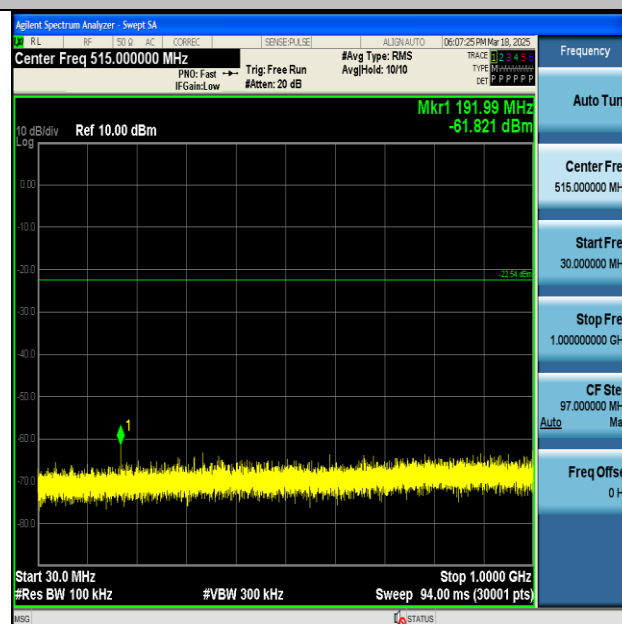




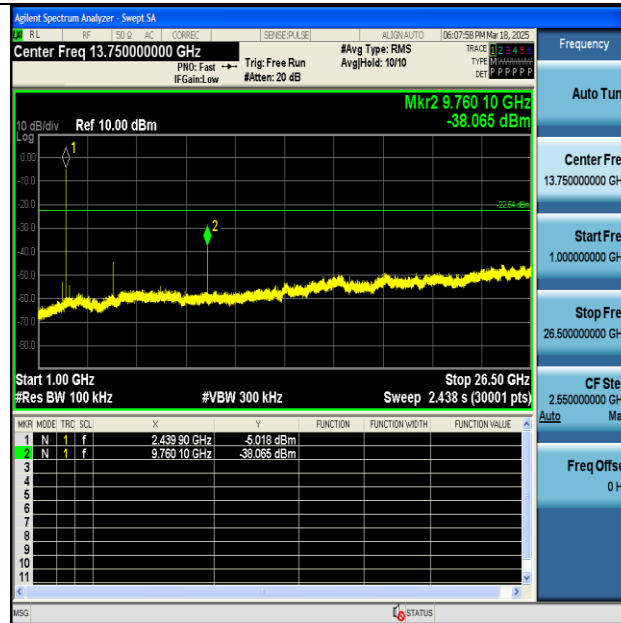
SRD-Ant1-2402-1000~26500-PASS



SRD-Ant1-2440-0~Reference-PASS



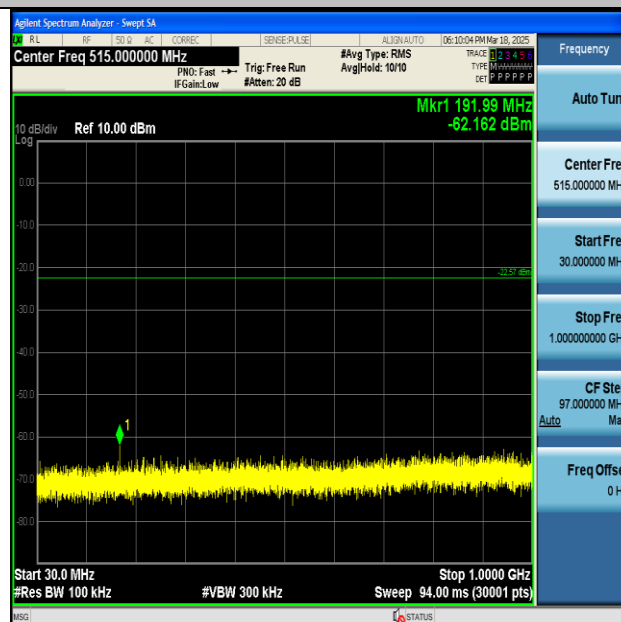
SRD-Ant1-2440-30~1000-PASS



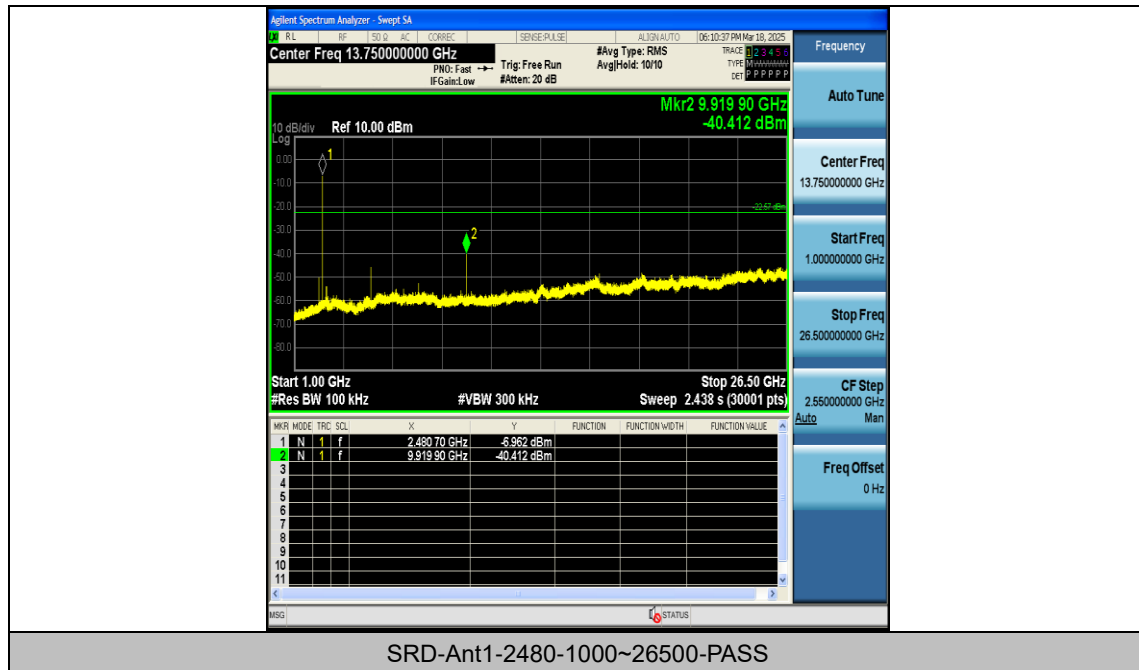
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD	Ant1	2402	19.00	19.00	100.00	0.00
SRD	Ant1	2440	19.00	19.00	100.00	0.00
SRD	Ant1	2480	19.00	19.00	100.00	0.00

Test Graphs

