

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Lemokey, Keychron

Test Model: P1 HE

FCC ID: 2BGKB-P1HE

Environmental Conditions

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

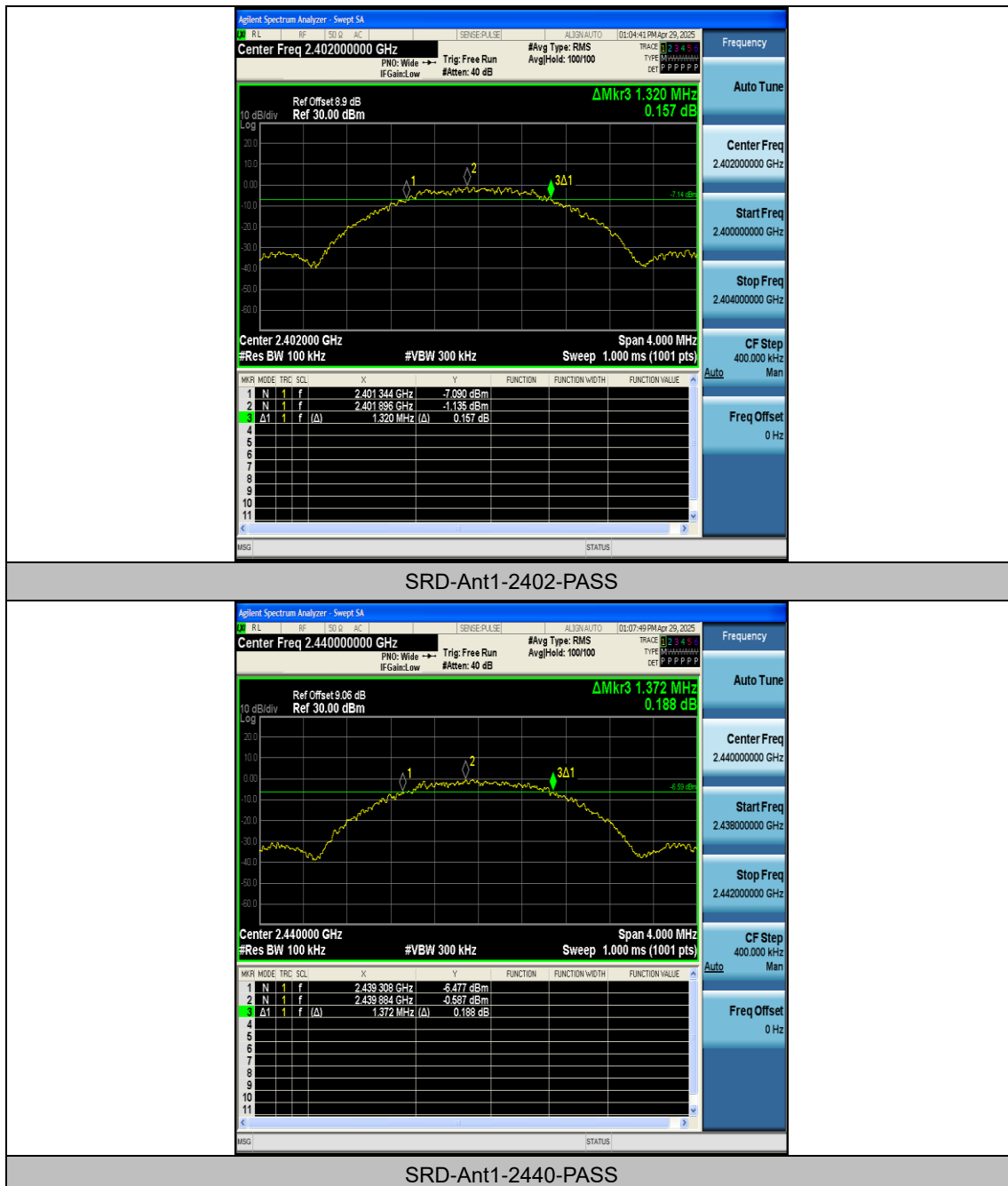
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2402	1.320	2401.344	2402.664	0.5	PASS
SRD	Ant1	2440	1.372	2439.308	2440.680	0.5	PASS
SRD	Ant1	2480	1.240	2479.372	2480.612	0.5	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

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	2.0729	2400.9696	2403.0425	---	---
SRD	Ant1	2440	2.0254	2438.9870	2441.0124	---	---
SRD	Ant1	2480	2.0674	2478.9444	2481.0118	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





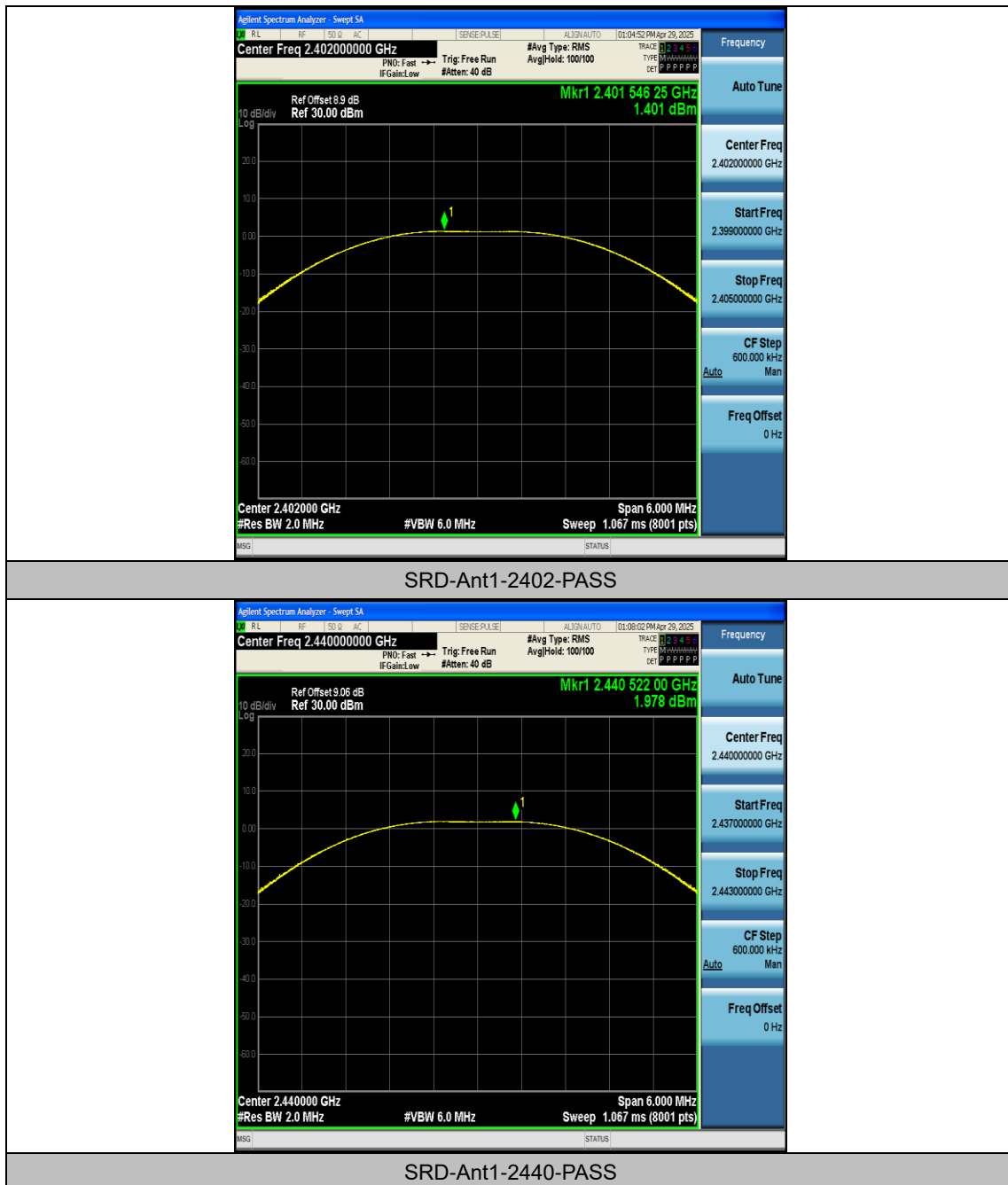
Appendix C: Maximum peak conducted output power

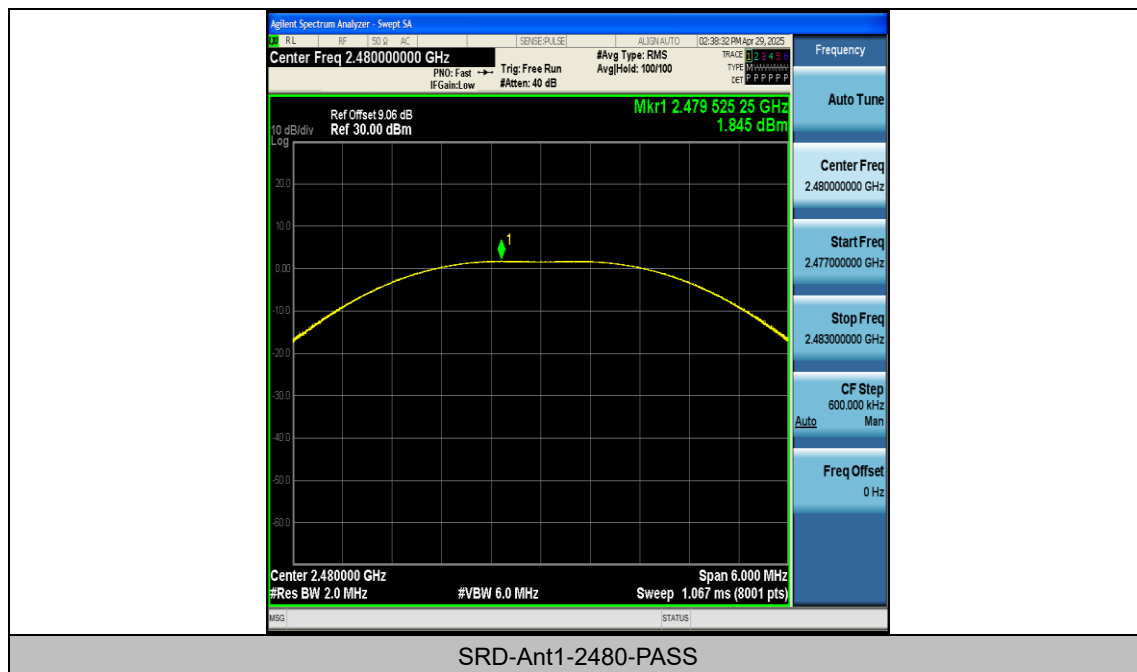
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2402	1.40	≤30	PASS
SRD	Ant1	2440	1.98	≤30	PASS
SRD	Ant1	2480	1.85	≤30	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs Peak





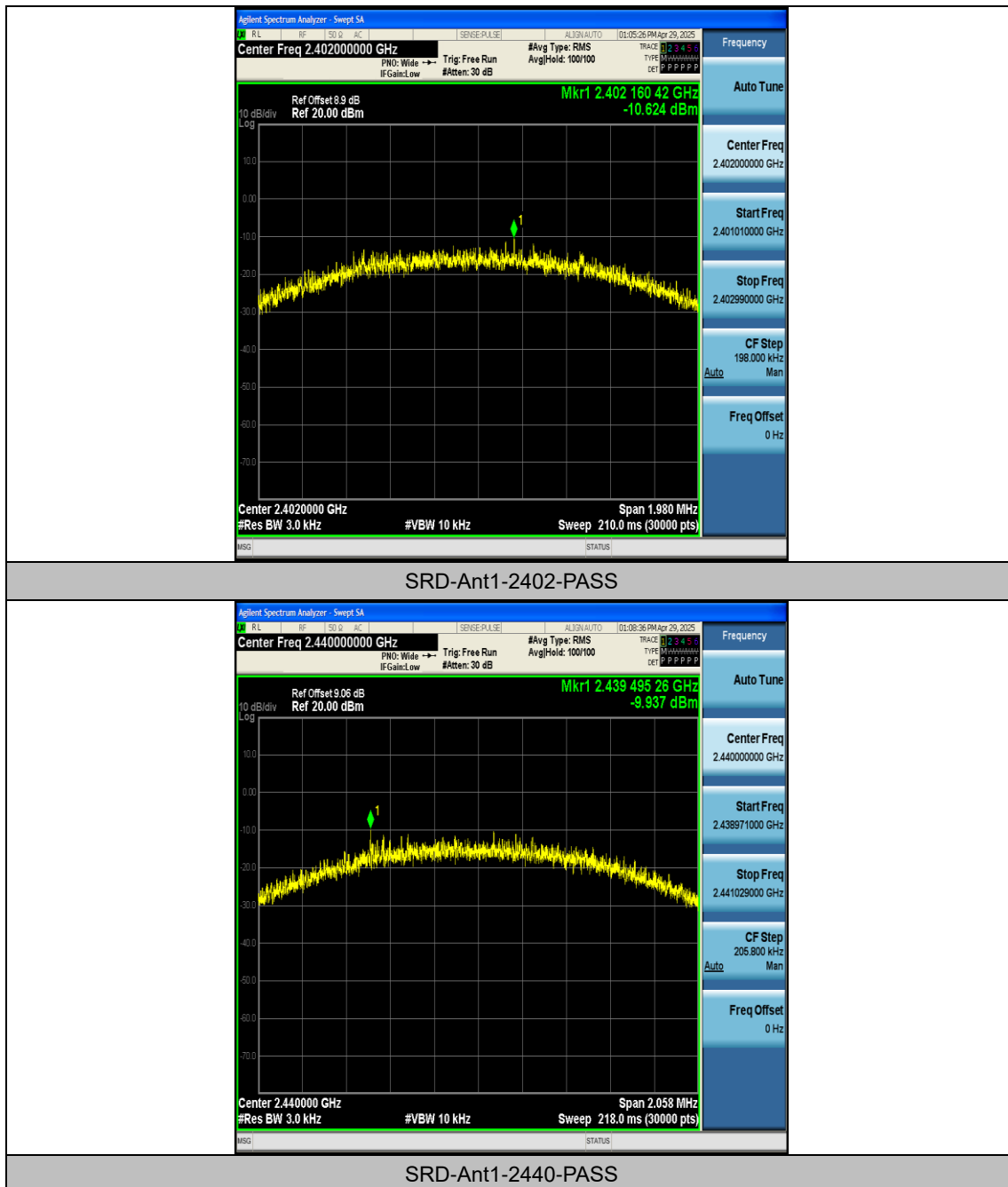
Appendix D: Maximum peak power spectral density

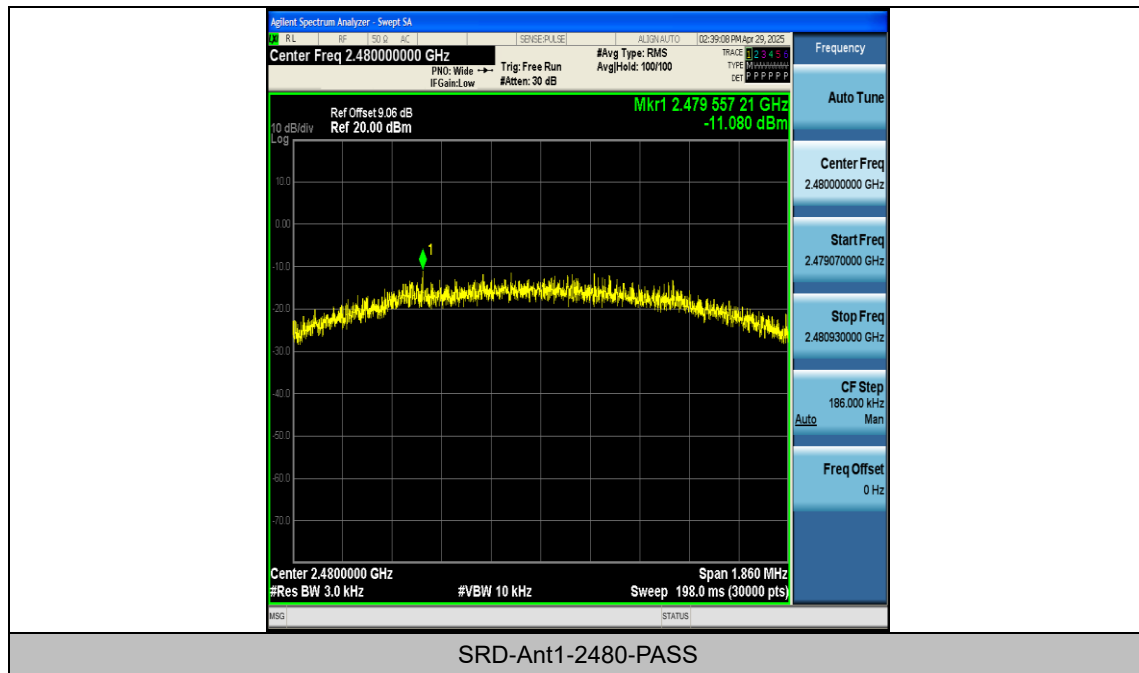
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2402	-10.62	≤8.00	PASS
SRD	Ant1	2440	-9.94	≤8.00	PASS
SRD	Ant1	2480	-11.08	≤8.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





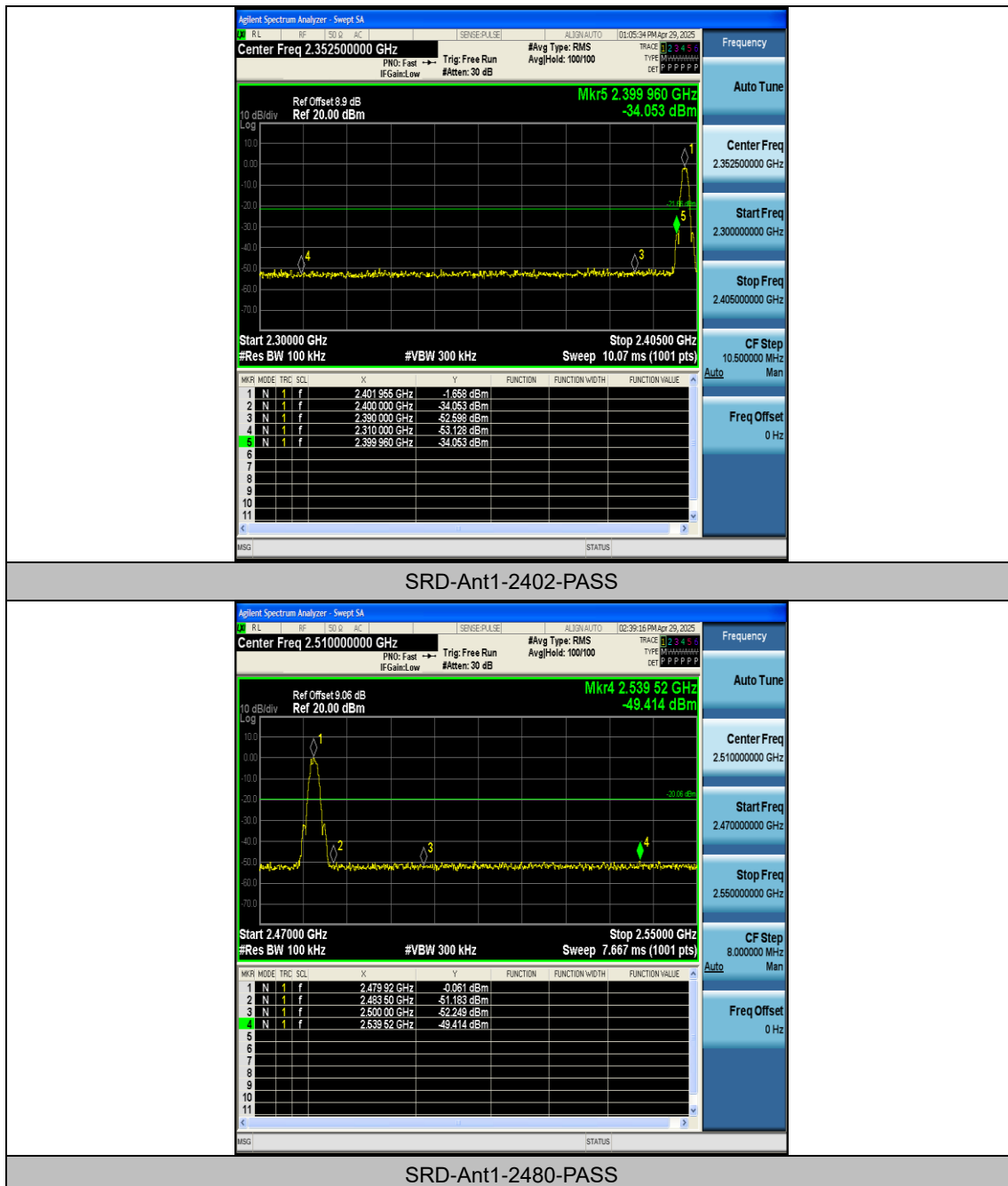
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	-1.66	-34.05	≤ -21.66	PASS
SRD	Ant1	High	2480	-0.06	-49.41	≤ -20.06	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs



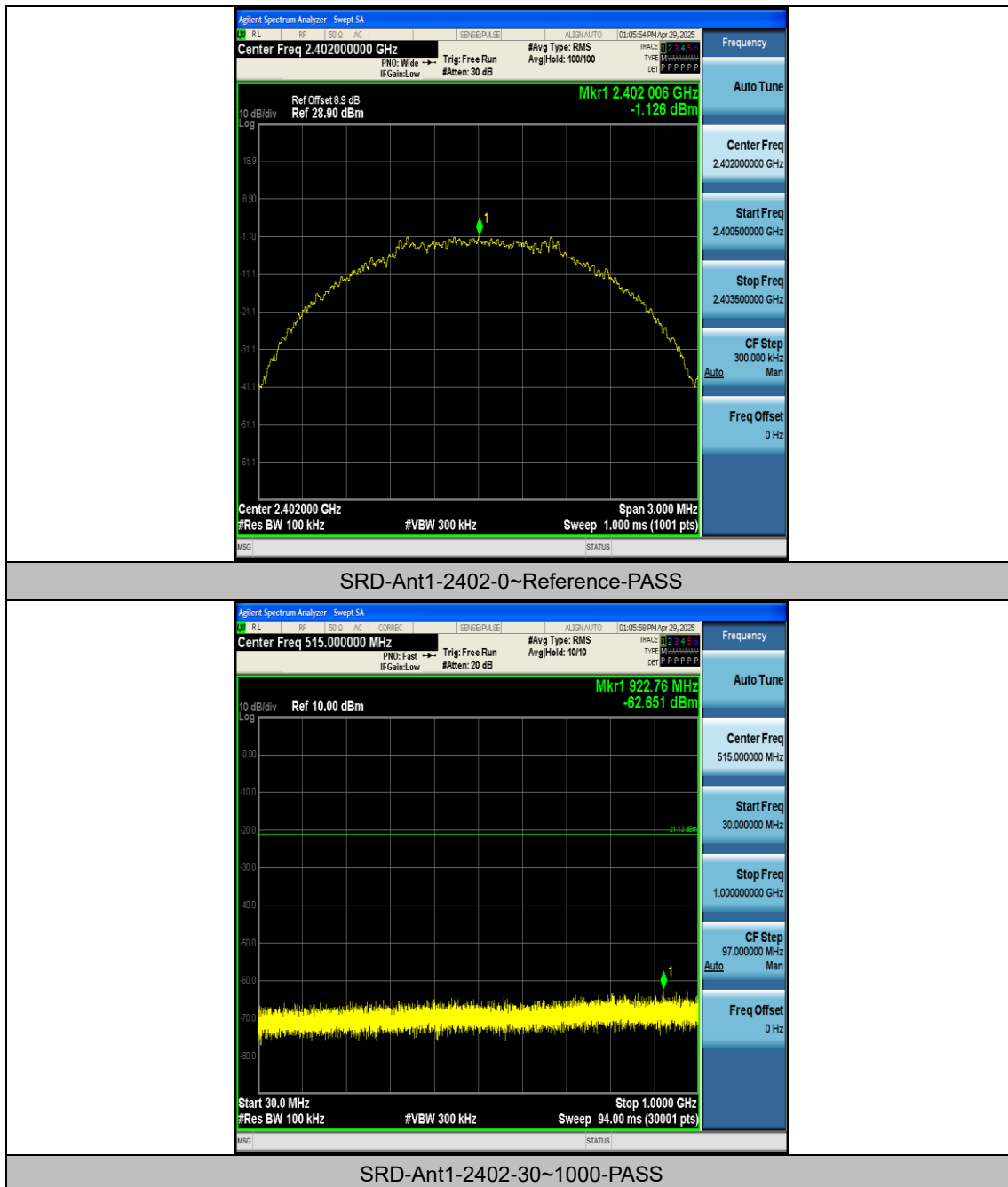
Appendix F: Conducted Spurious Emission

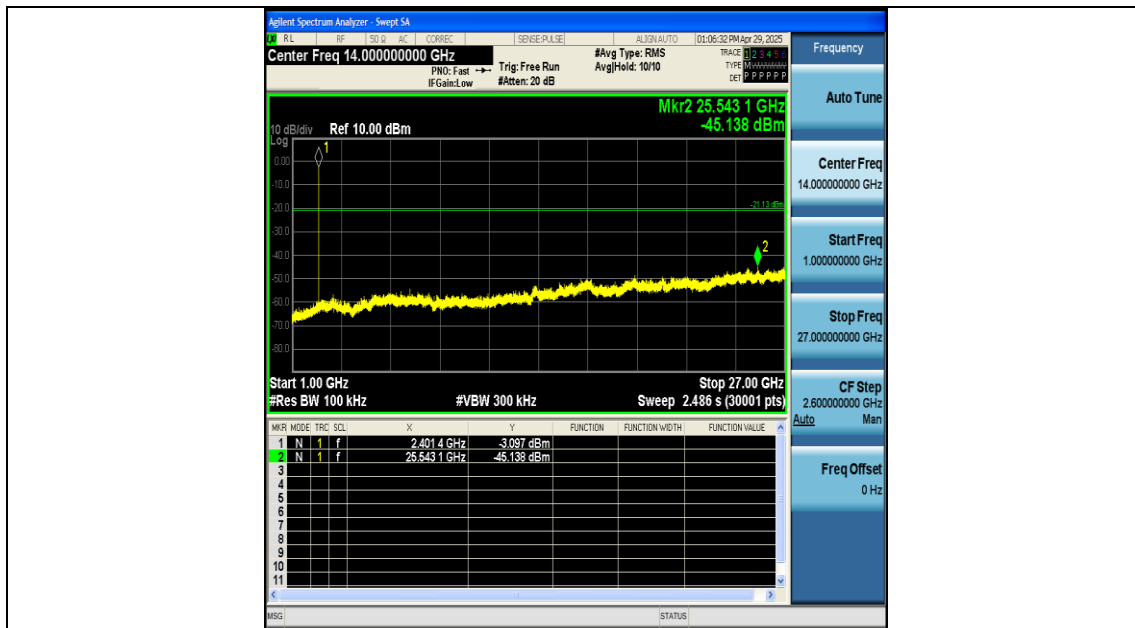
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2402	0~Reference	-1.13	-1.13	---	PASS
SRD	Ant1	2402	30~1000	-1.13	-62.65	≤ -21.13	PASS
SRD	Ant1	2402	1000~40000	-1.13	-45.14	≤ -21.13	PASS
SRD	Ant1	2440	0~Reference	-0.29	-0.29	---	PASS
SRD	Ant1	2440	30~1000	-0.29	-63.51	≤ -20.29	PASS
SRD	Ant1	2440	1000~40000	-0.29	-45.59	≤ -20.29	PASS
SRD	Ant1	2480	0~Reference	-0.83	-0.83	---	PASS
SRD	Ant1	2480	30~1000	-0.83	-63.01	≤ -20.83	PASS
SRD	Ant1	2480	1000~40000	-0.83	-45.32	≤ -20.83	PASS

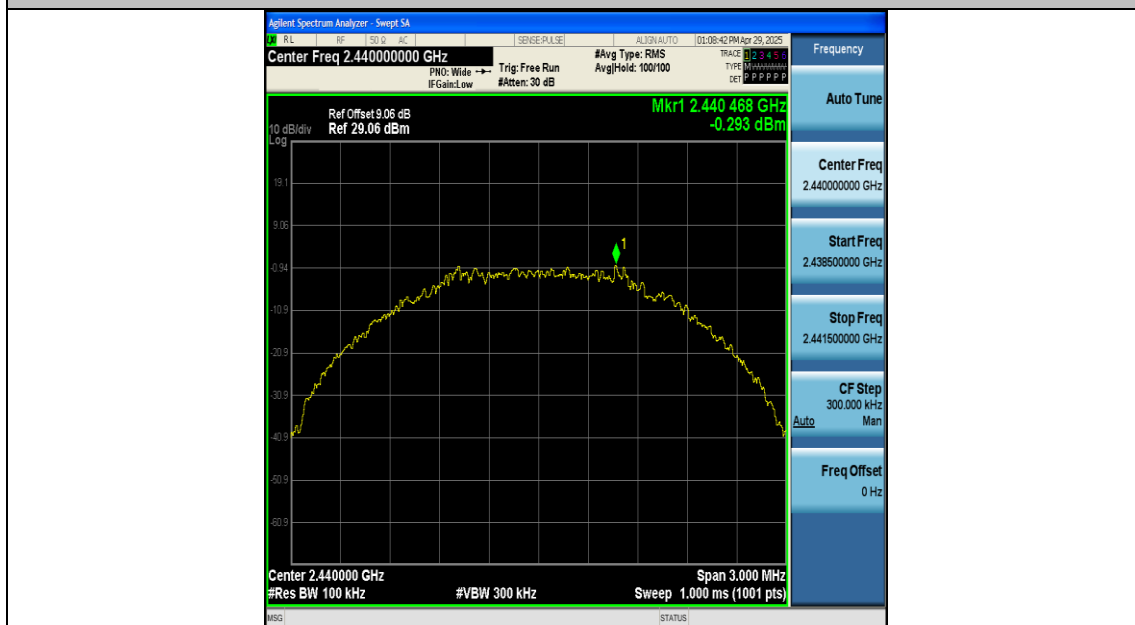
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

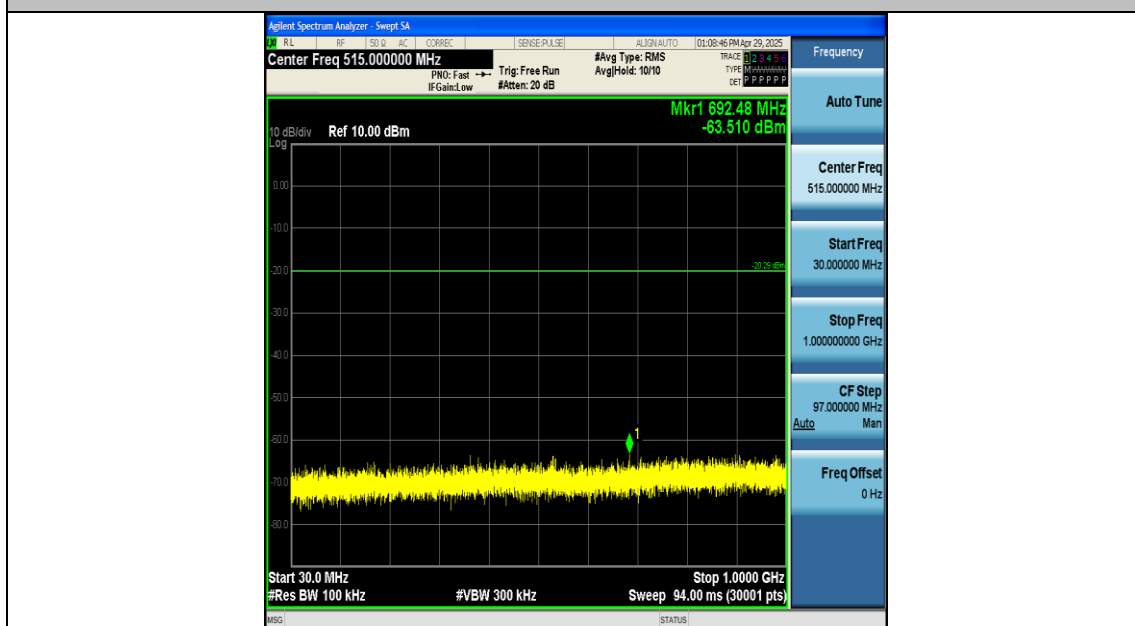




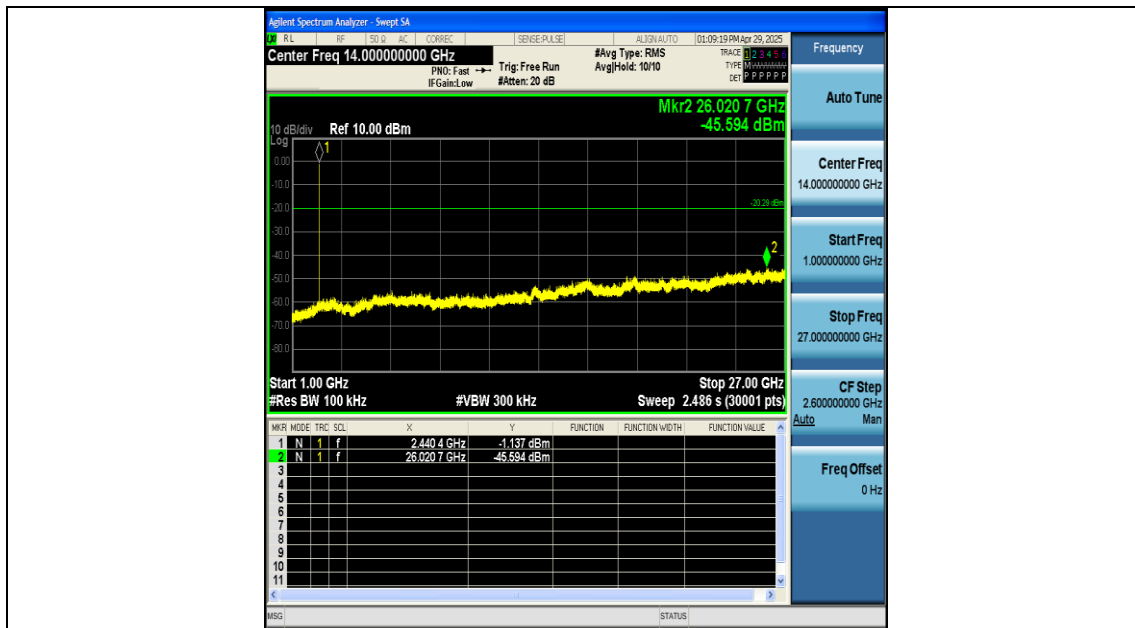
SRD-Ant1-2402-1000~40000-PASS



SRD-Ant1-2440-0~Reference-PASS



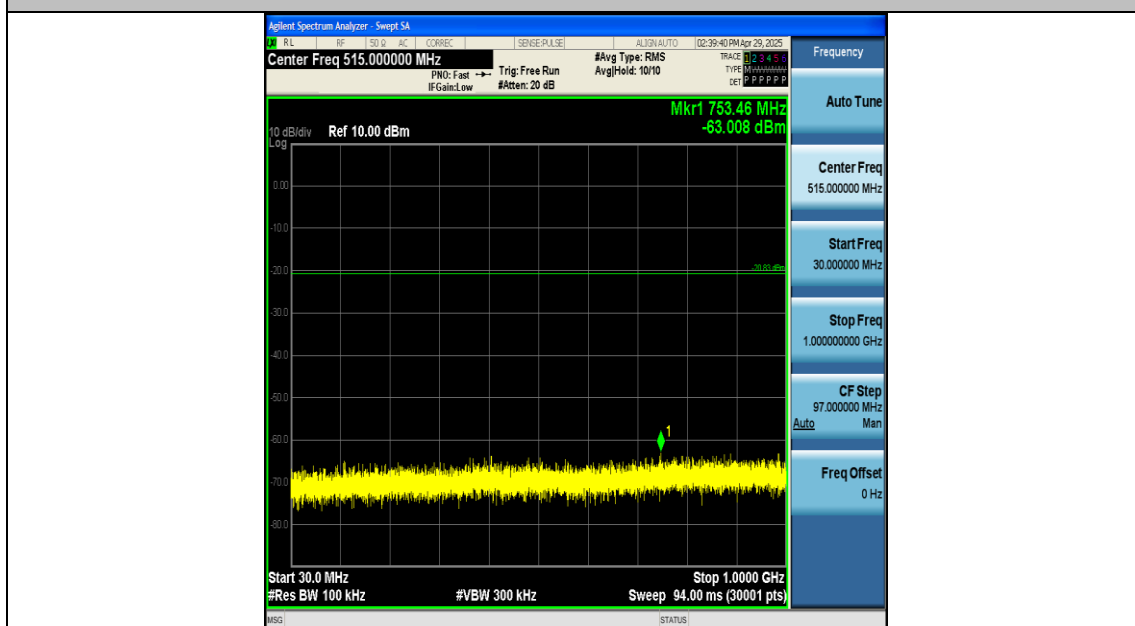
SRD-Ant1-2440-30~1000-PASS



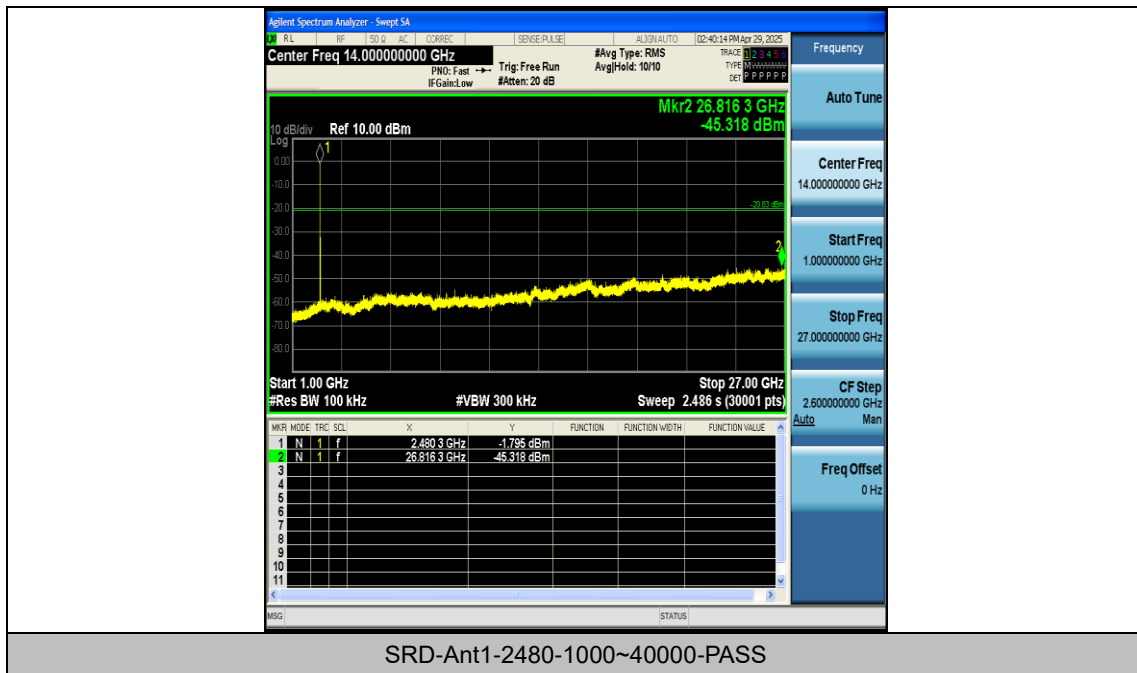
SRD-Ant1-2440-1000~40000-PASS



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

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

