

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Remote control car

Trade Mark: /

Test Model: 2990

FCC ID: 2A58S-2990

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	2405	0.652	2404.668	2405.320	0.5	PASS
SRD	Ant1	2445	0.640	2444.660	2445.300	0.5	PASS
SRD	Ant1	2475	0.624	2474.664	2475.288	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	2405	1.2032	2404.3864	2405.5896	---	---
SRD	Ant1	2445	1.1179	2444.4518	2445.5697	---	---
SRD	Ant1	2475	1.1857	2474.4333	2475.6190	---	---

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

Test Graphs





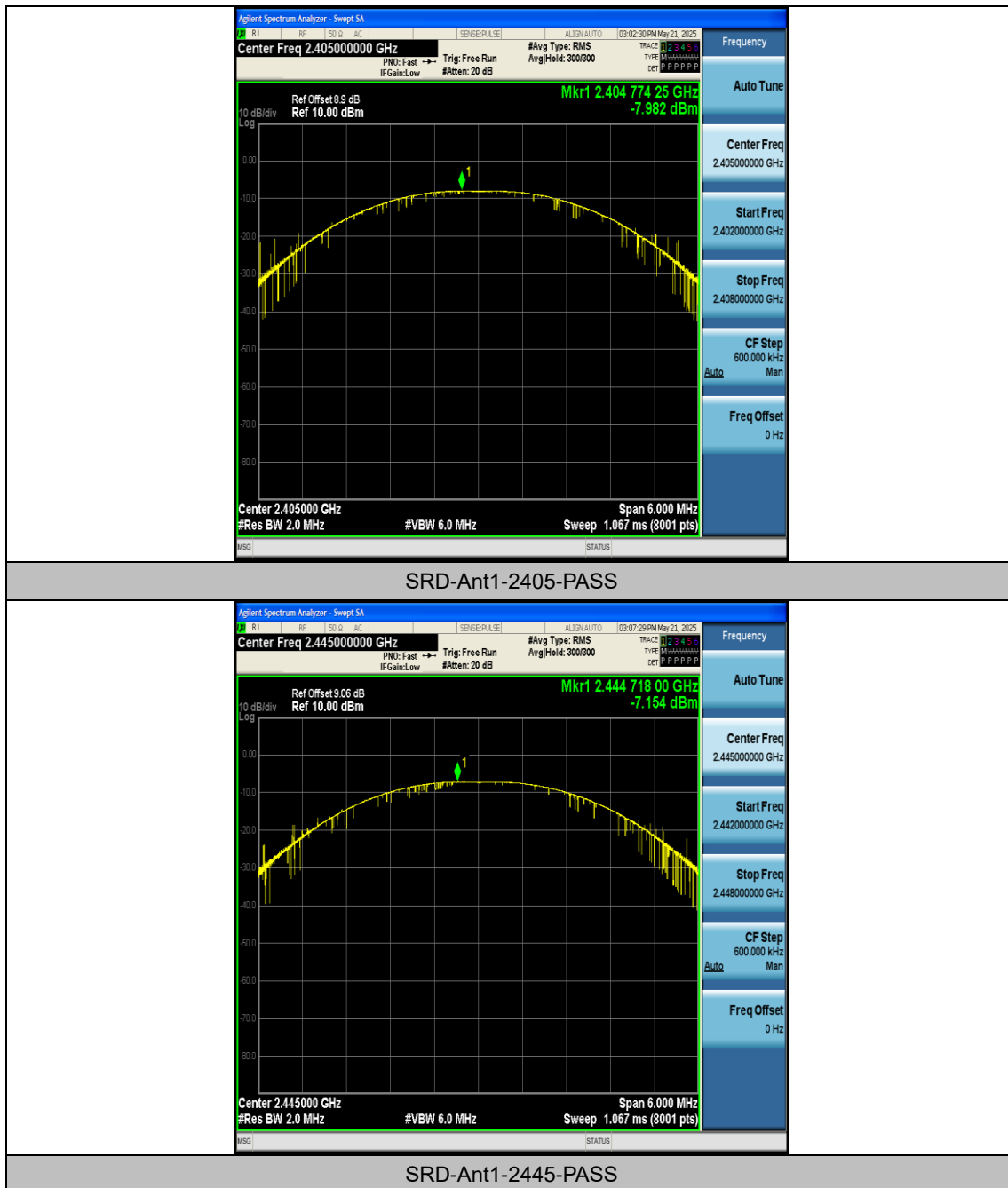
Appendix C: Maximum peak conducted output power

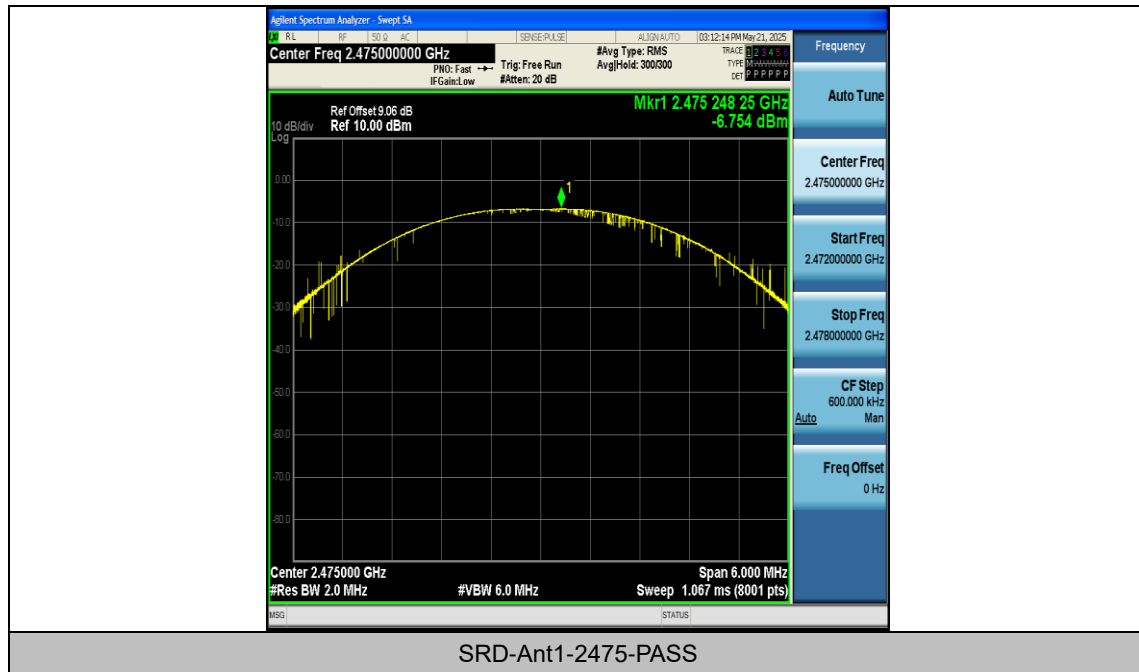
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2405	-7.98	≤30	PASS
SRD	Ant1	2445	-7.15	≤30	PASS
SRD	Ant1	2475	-6.75	≤30	PASS

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

Test Graphs Peak





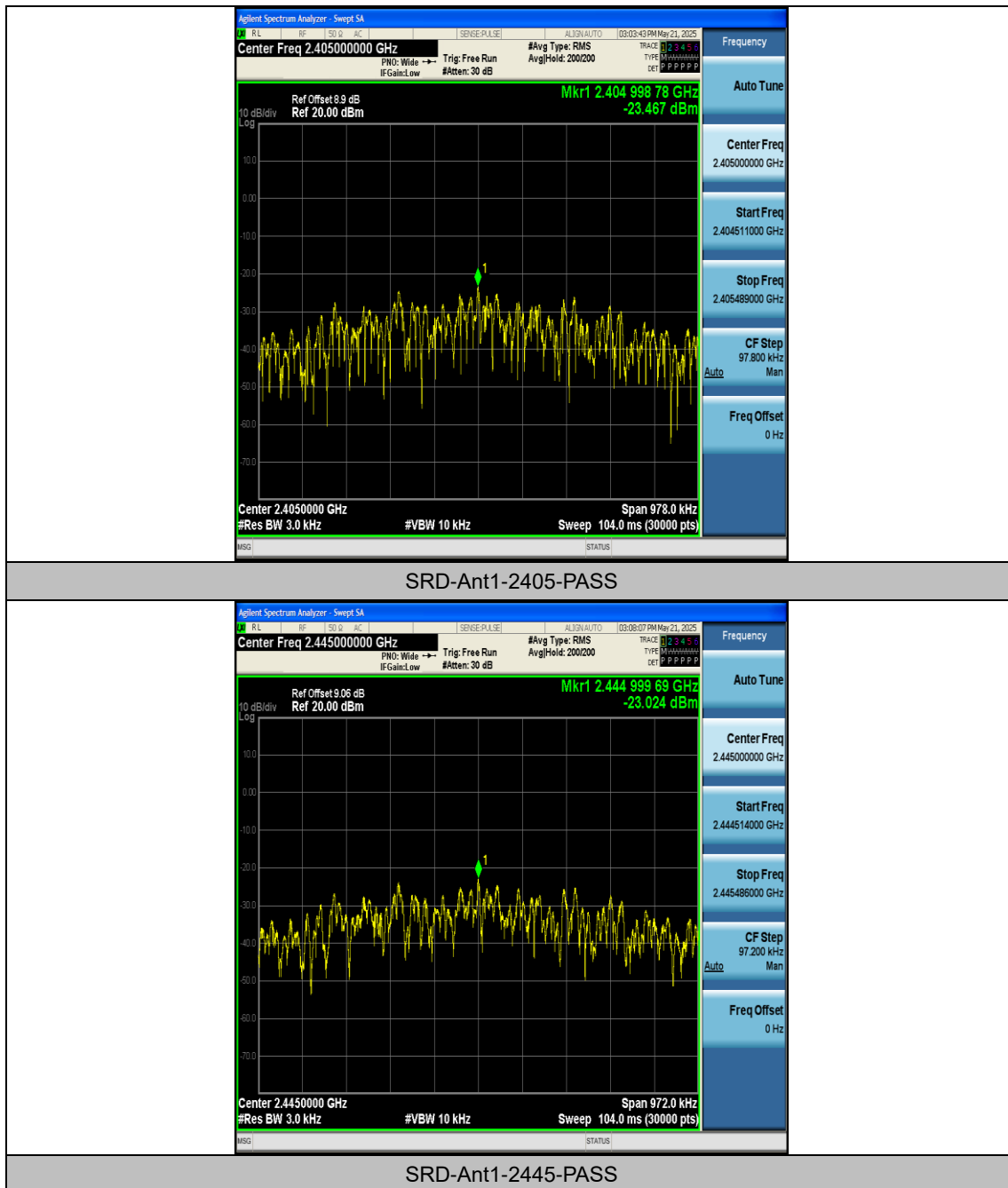
Appendix D: Maximum peak power spectral density

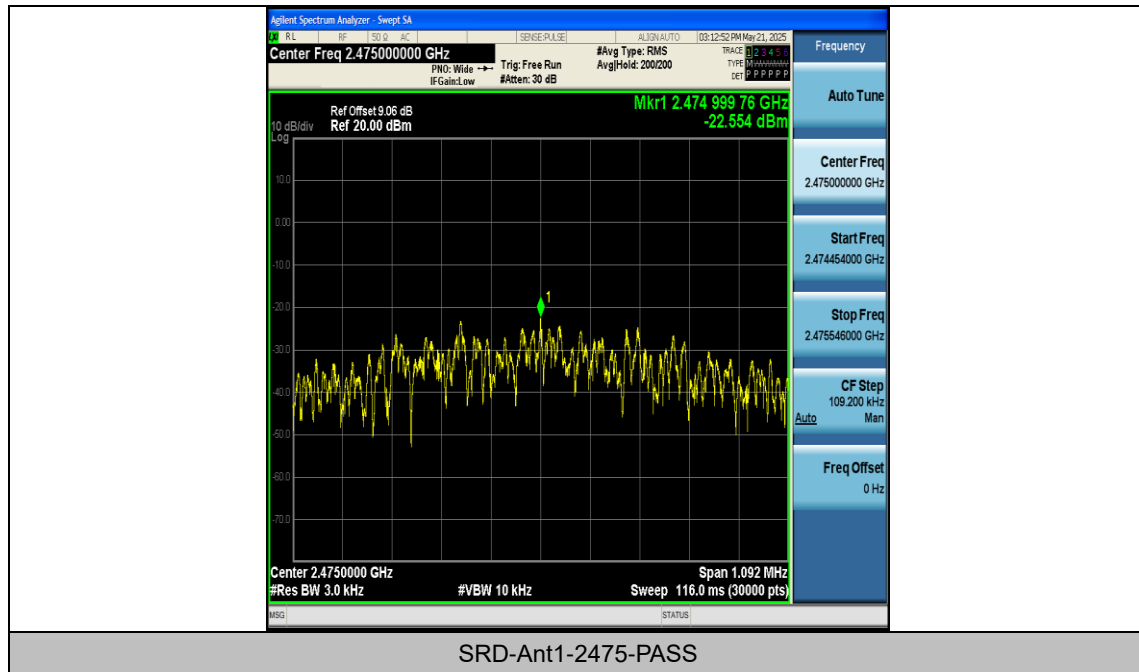
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2405	-23.47	≤8.00	PASS
SRD	Ant1	2445	-23.02	≤8.00	PASS
SRD	Ant1	2475	-22.55	≤8.00	PASS

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

Test Graphs





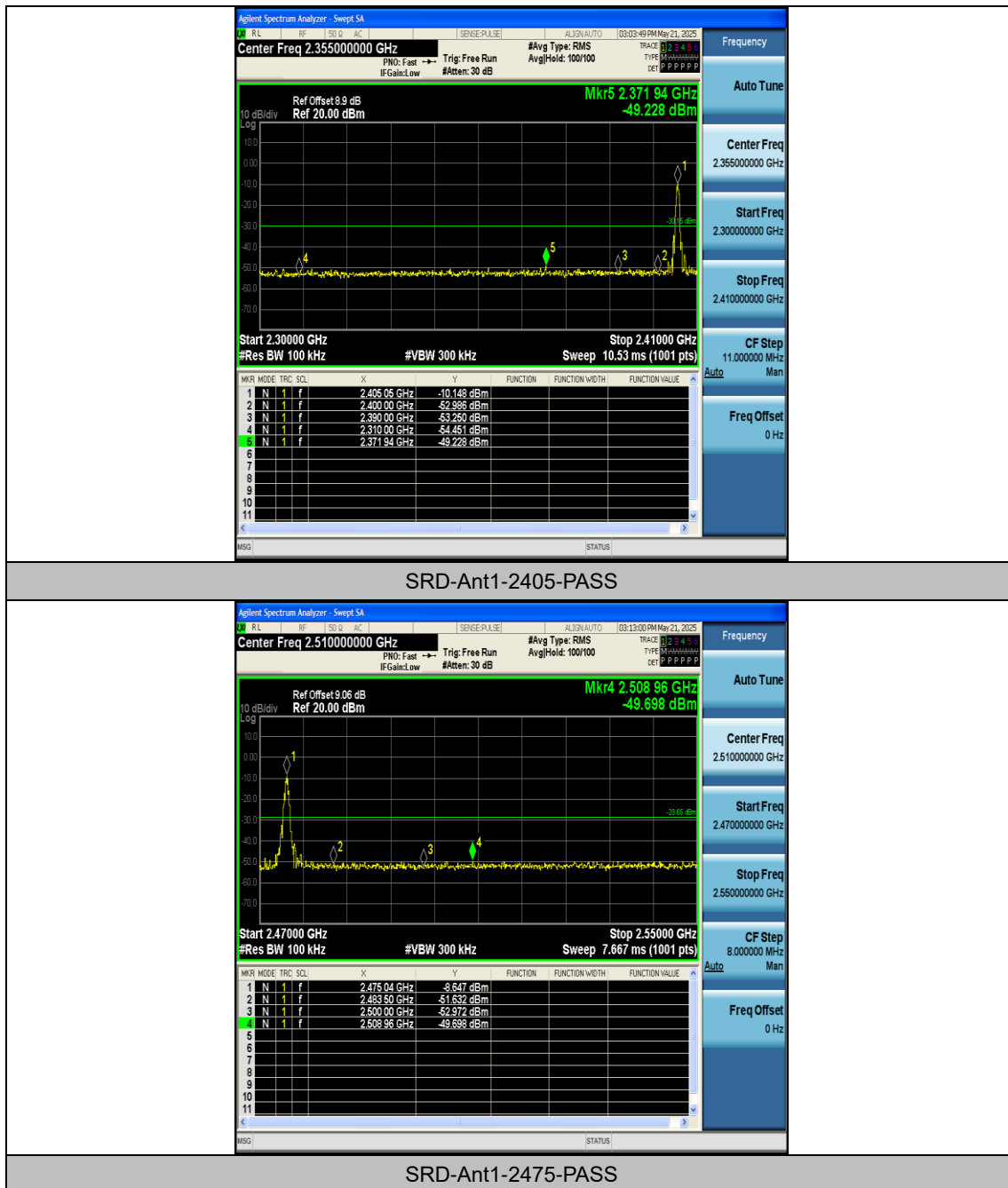
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2405	-10.15	-49.23	≤ -30.15	PASS
SRD	Ant1	High	2475	-8.65	-49.7	≤ -28.65	PASS

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

Test Graphs



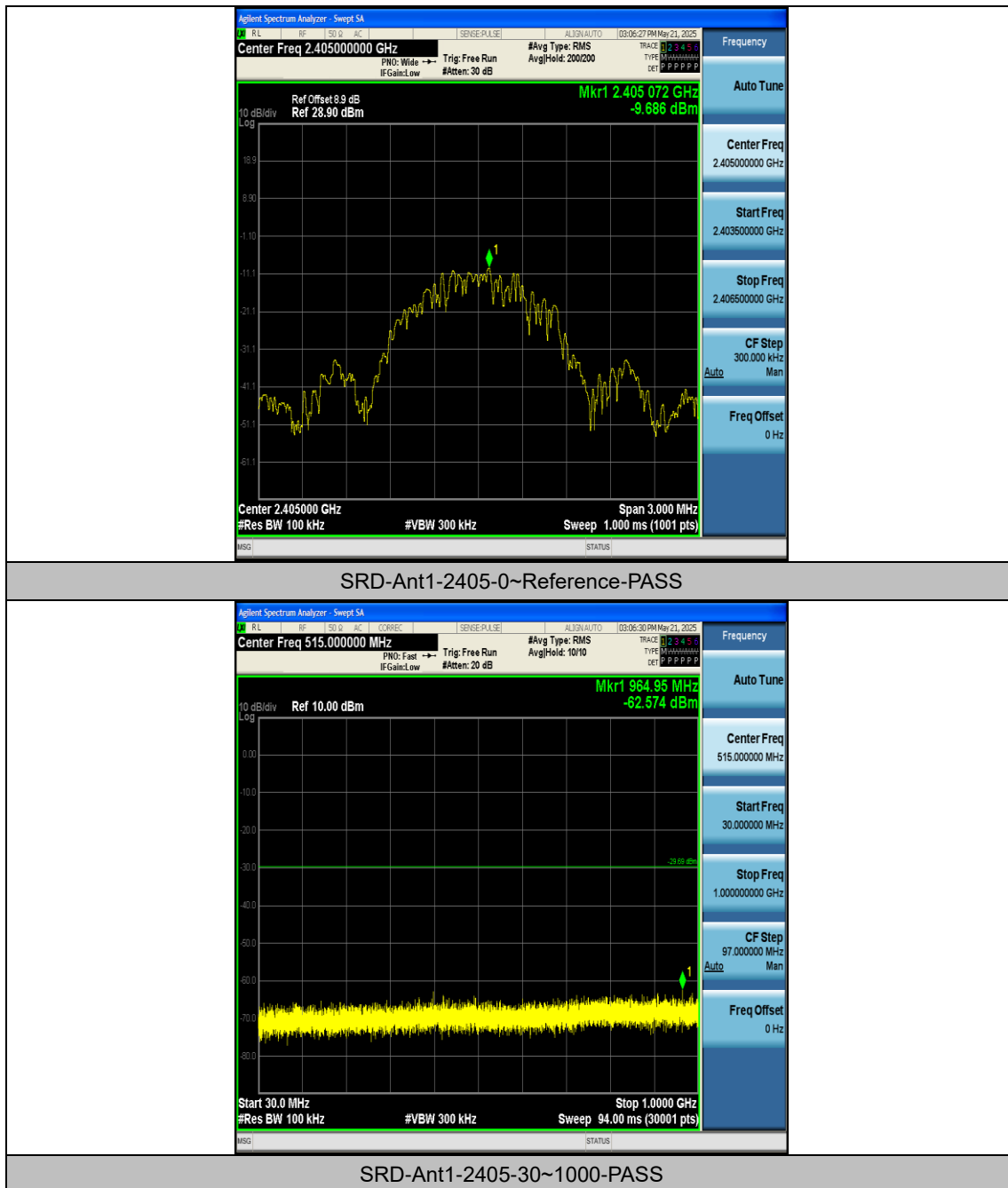
Appendix F: Conducted Spurious Emission

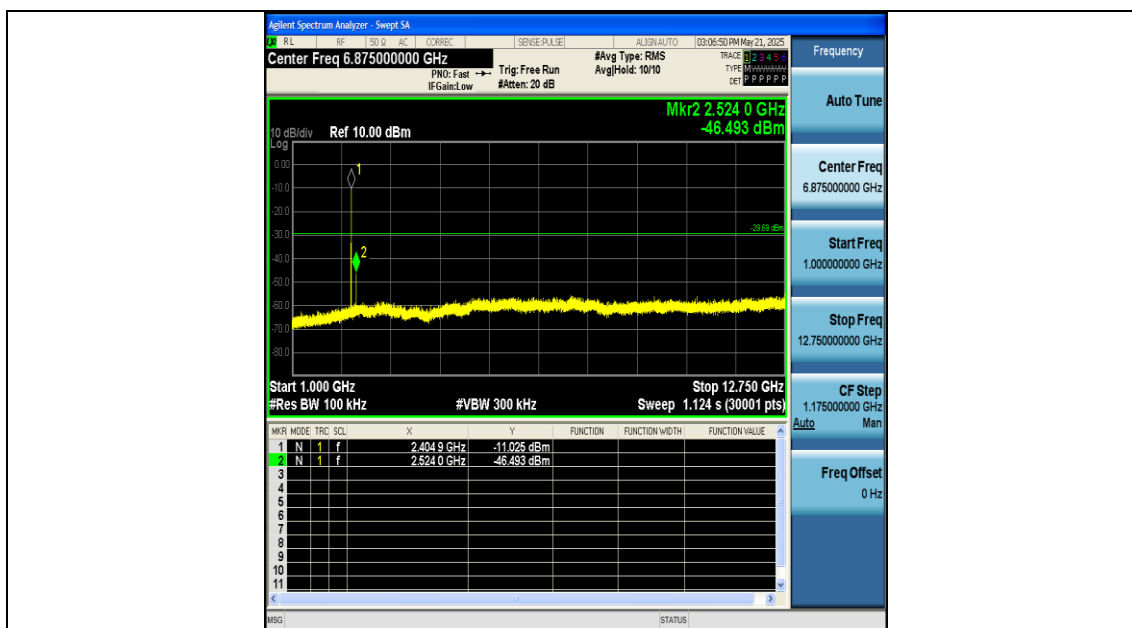
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2405	0~Reference	-9.69	-9.69	---	PASS
SRD	Ant1	2405	30~1000	-9.69	-62.57	≤-29.69	PASS
SRD	Ant1	2405	1000~12750	-9.69	-46.49	≤-29.69	PASS
SRD	Ant1	2445	0~Reference	-8.21	-8.21	---	PASS
SRD	Ant1	2445	30~1000	-8.21	-61.77	≤-28.21	PASS
SRD	Ant1	2445	1000~12750	-8.21	-53.65	≤-28.21	PASS
SRD	Ant1	2475	0~Reference	-8.67	-8.67	---	PASS
SRD	Ant1	2475	30~1000	-8.67	-62.22	≤-28.67	PASS
SRD	Ant1	2475	1000~12750	-8.67	-55.09	≤-28.67	PASS

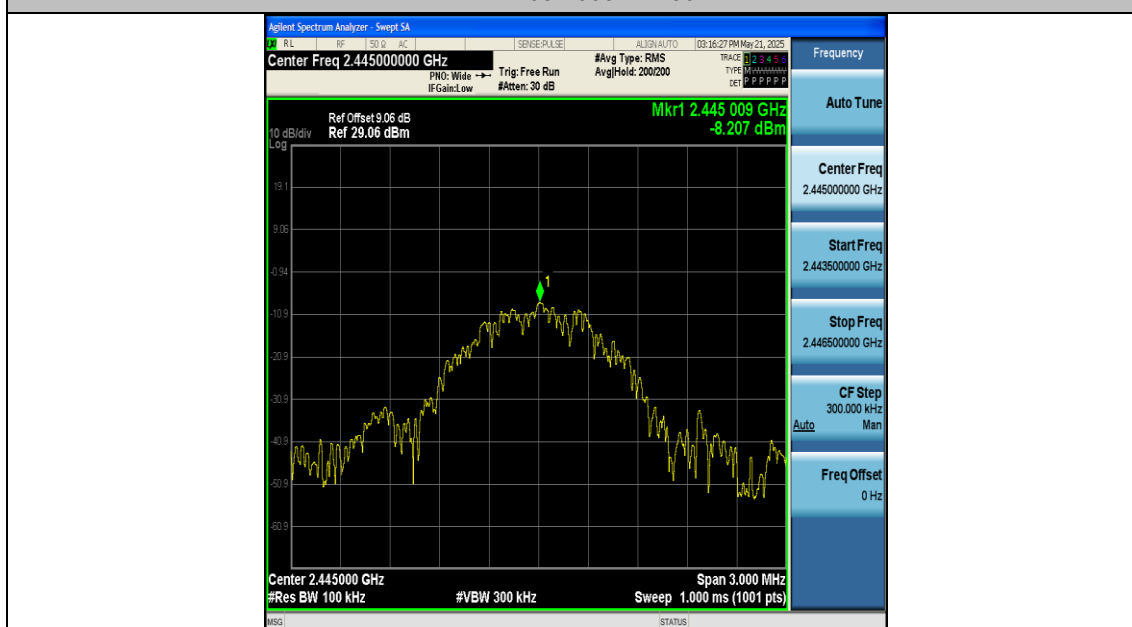
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

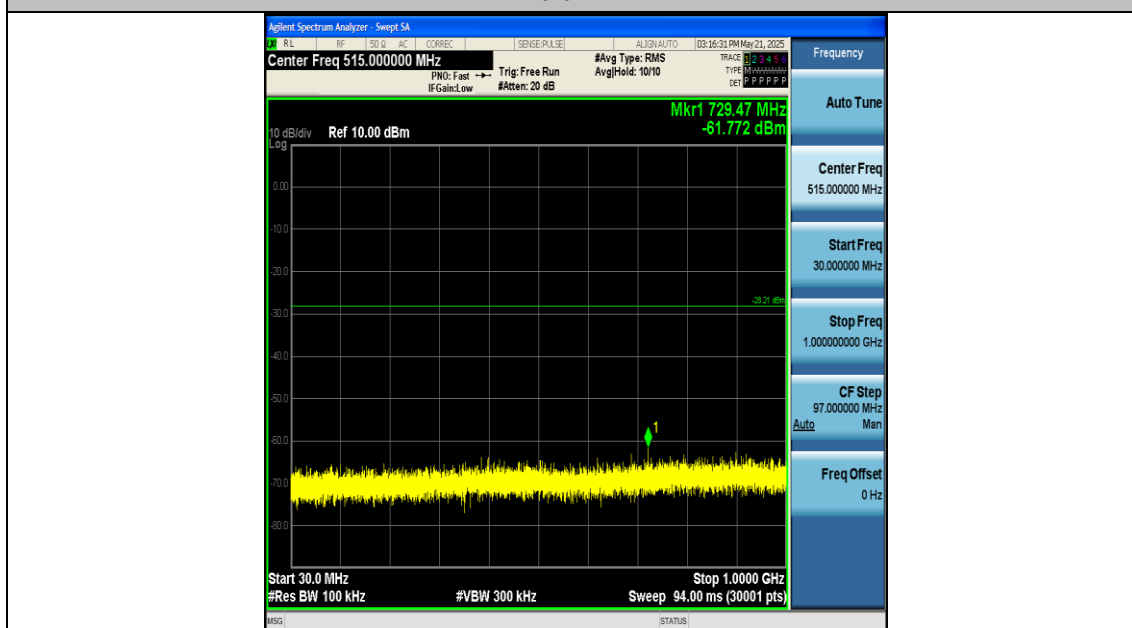




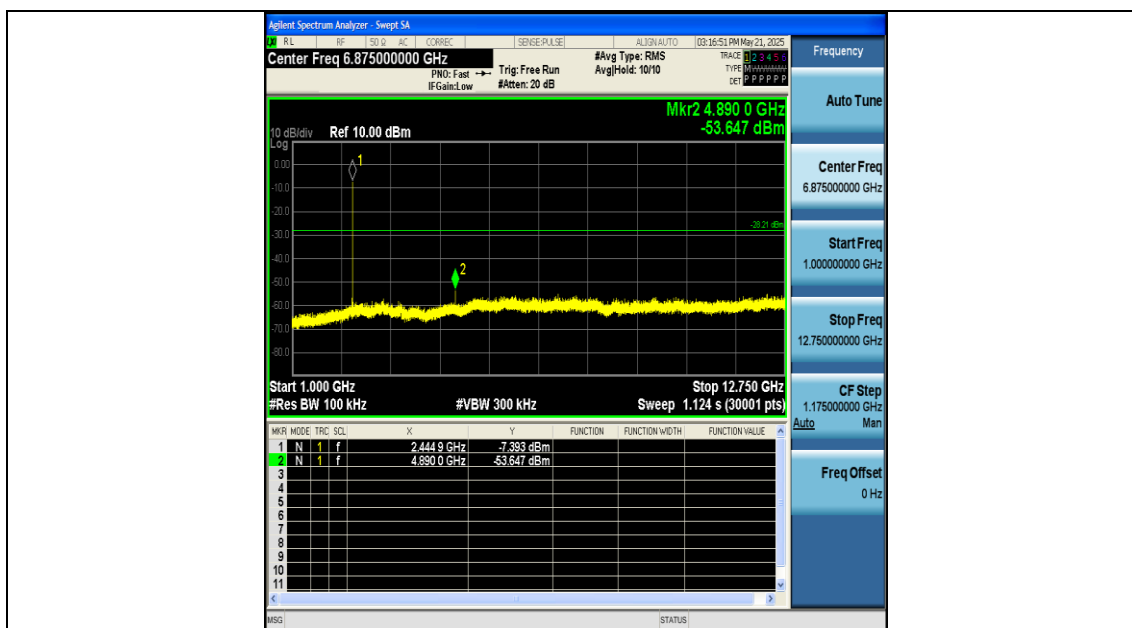
SRD-Ant1-2405-1000~12750-PASS



SRD-Ant1-2445-0~Reference-PASS



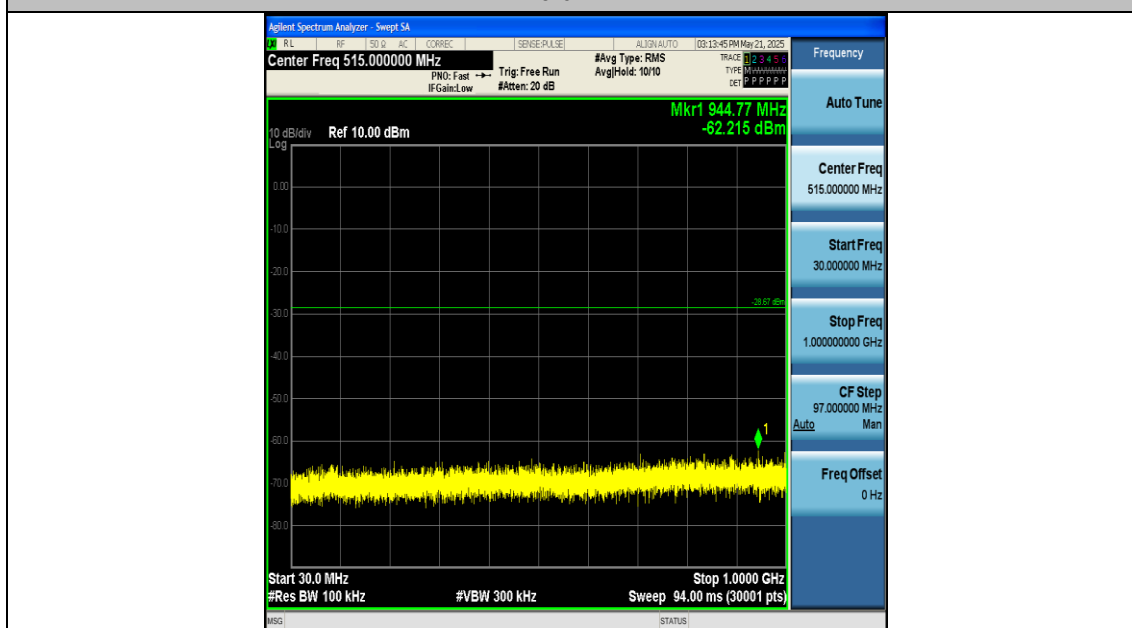
SRD-Ant1-2445-30~1000-PASS



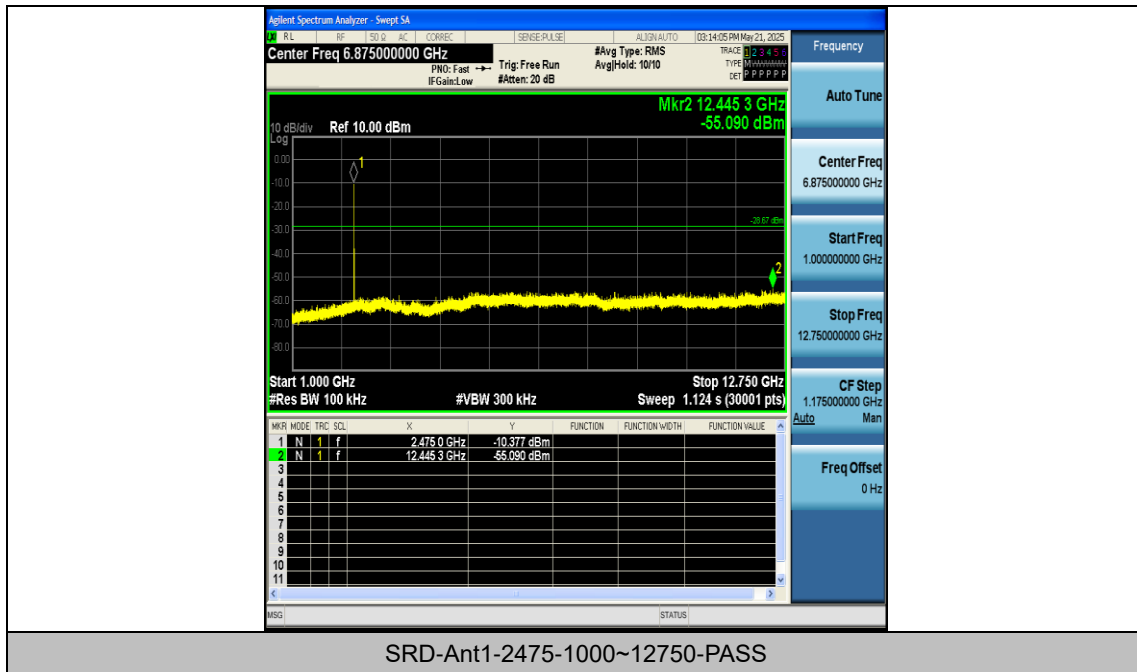
SRD-Ant1-2445-1000~12750-PASS



SRD-Ant1-2475-0~Reference-PASS



SRD-Ant1-2475-30~1000-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	2405	0.20	12.04	1.66	17.80
SRD	Ant1	2445	0.20	12.04	1.66	17.80
SRD	Ant1	2475	0.16	12.04	1.33	18.76

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

Test Graphs

