



Appendix Test Data for SRD (Conducted Measurement)

Product Name: 2.4G wireless microphone system

Trade Mark: SYNCO, SMART

Test Model: E2-RX

FCC ID: 2AXWL-E2-RX

Environmental Conditions

Temperature:	23.5°C
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	2404	1.328	2403.372	2404.700	0.5	PASS
SRD	Ant1	2440	1.328	2439.312	2440.640	0.5	PASS
SRD	Ant1	2478	1.248	2477.380	2478.628	0.5	PASS

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





Test Graphs





SRD-Ant1-2478-PASS





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2404	2.0457	2402.9907	2405.0364	---	---
SRD	Ant1	2440	2.0542	2438.9815	2441.0357	---	---
SRD	Ant1	2478	2.0108	2477.0036	2479.0144	---	---

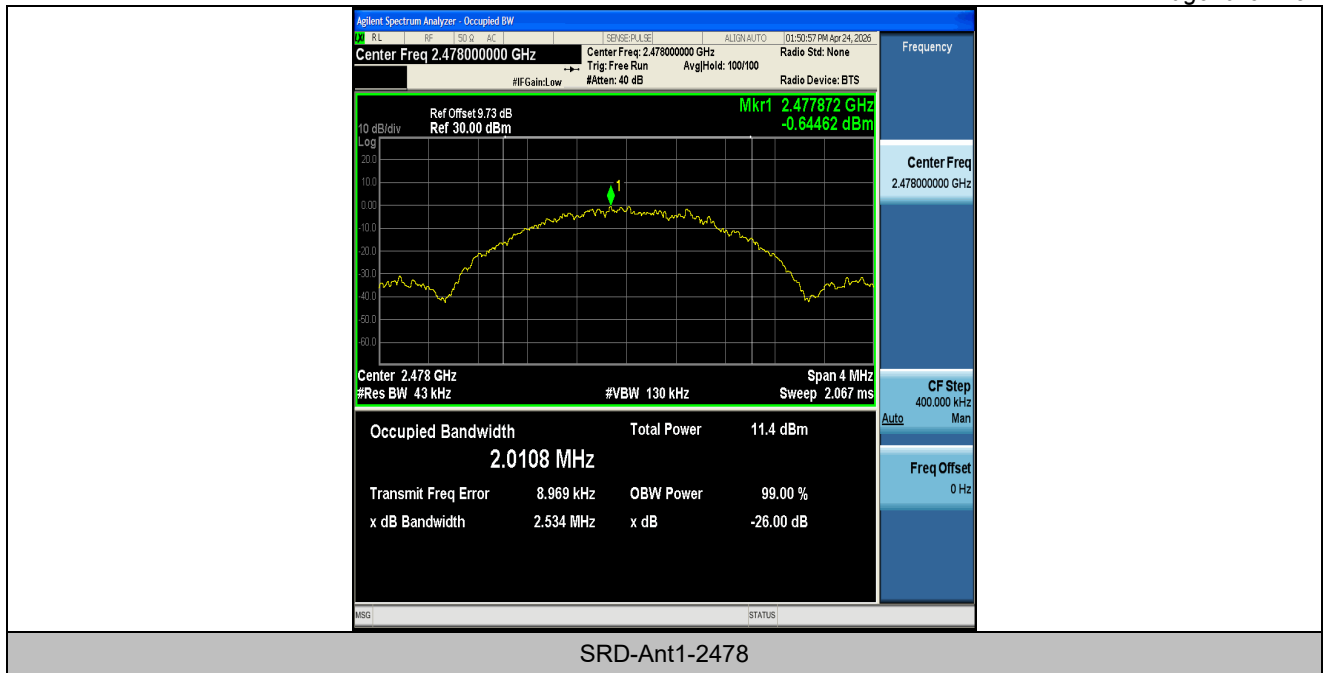
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix C: Maximum peak conducted output power

Test Result Peak

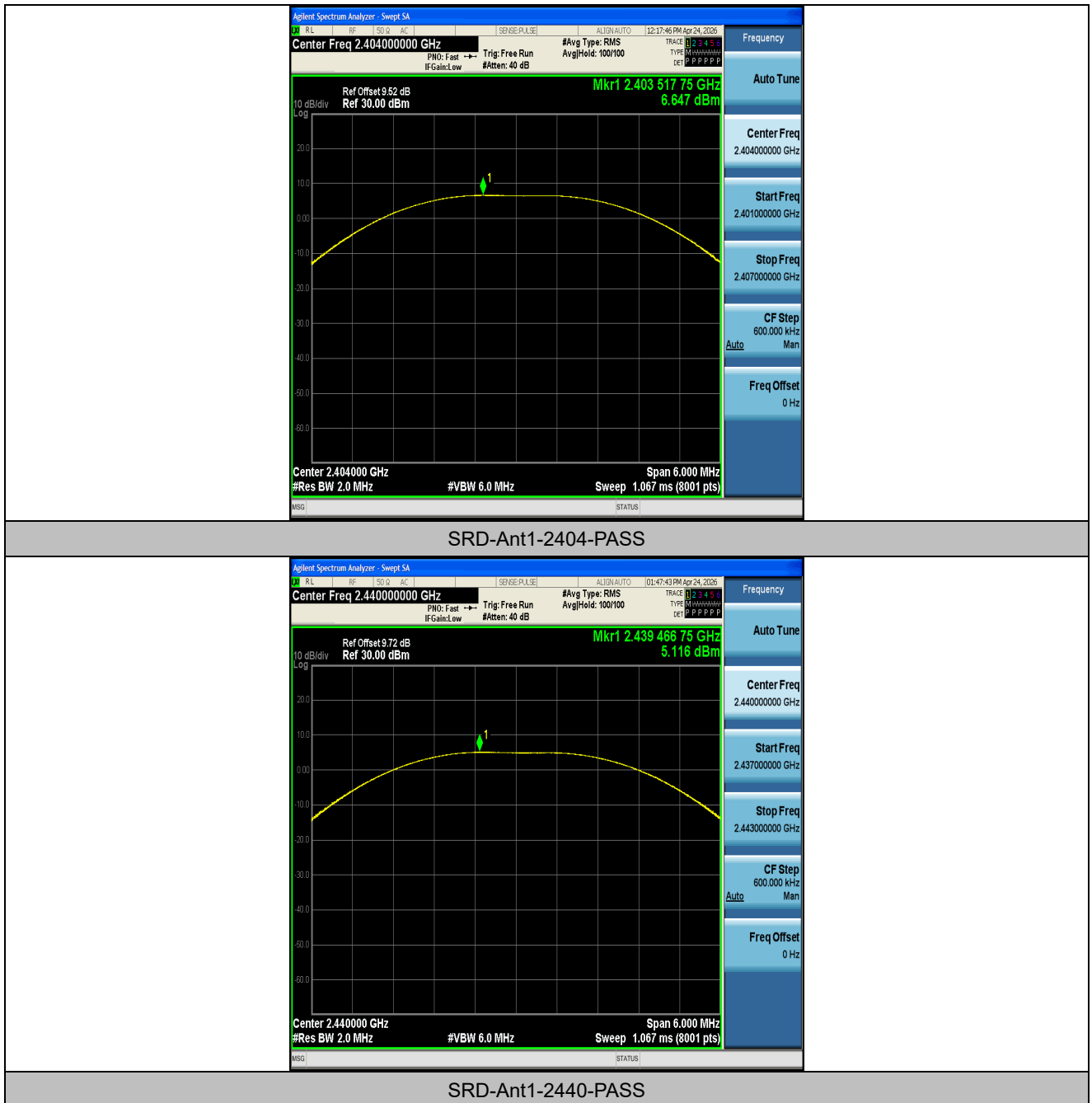
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2404	6.65	≤30	PASS
SRD	Ant1	2440	5.12	≤30	PASS
SRD	Ant1	2478	3.82	≤30	PASS

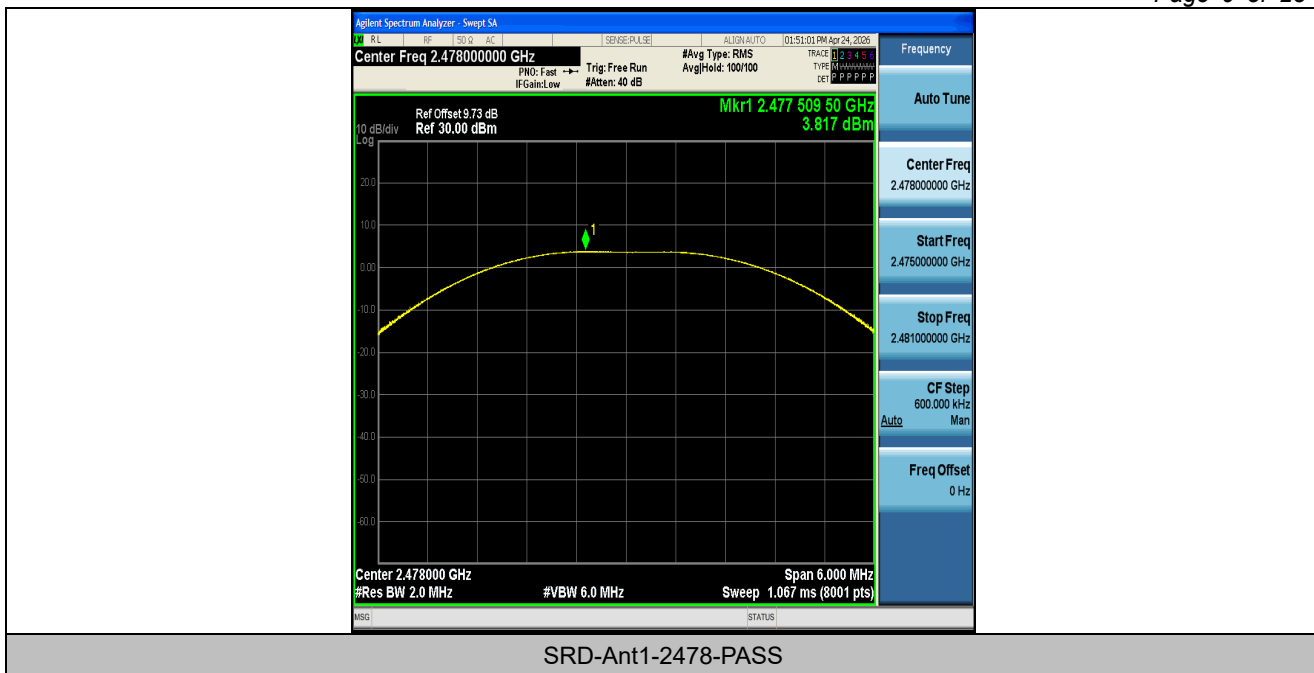
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs Peak







Appendix D: Maximum peak power spectral density

Test Result

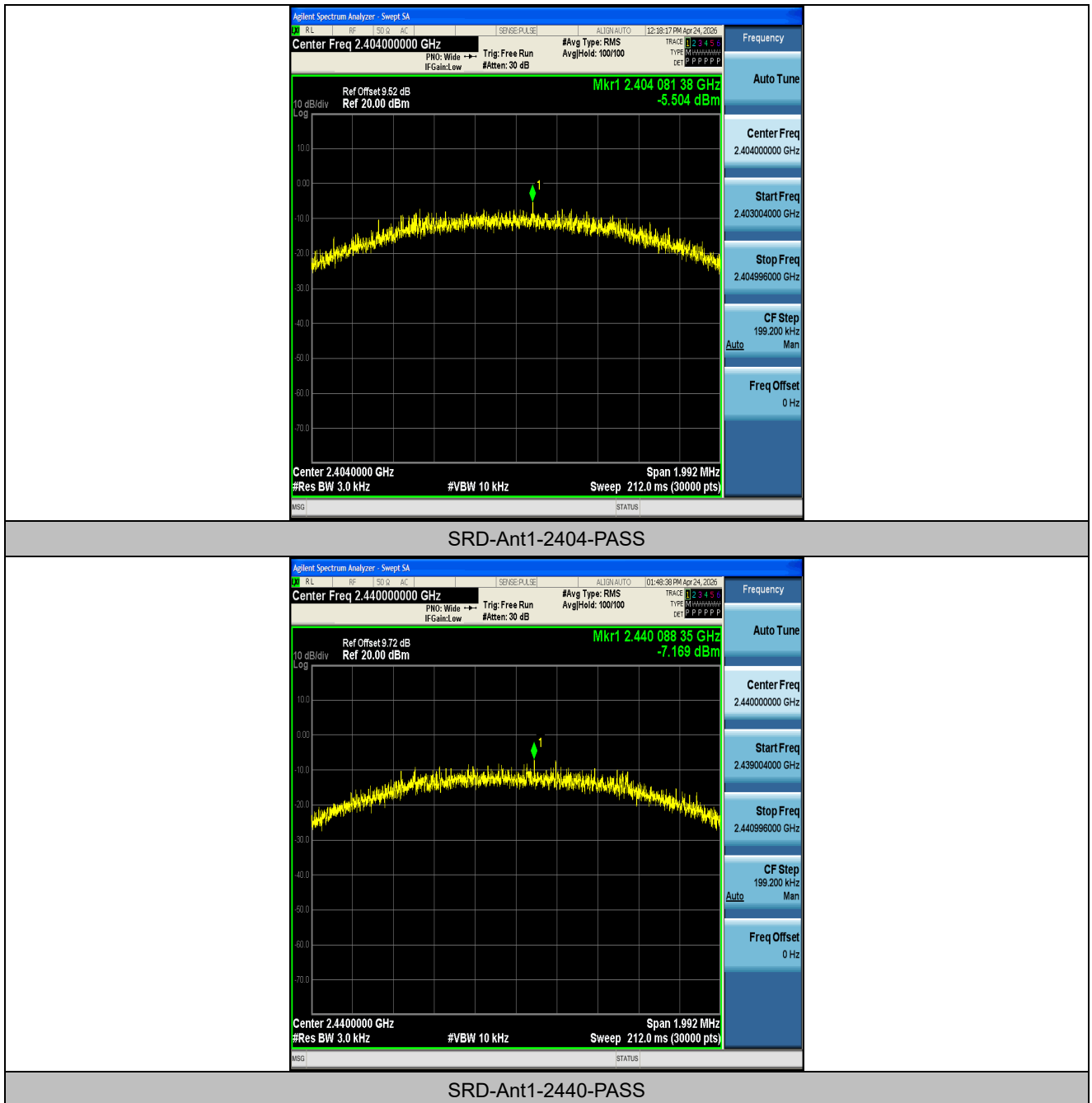
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2404	-5.50	≤8.00	PASS
SRD	Ant1	2440	-7.17	≤8.00	PASS
SRD	Ant1	2478	-8.46	≤8.00	PASS

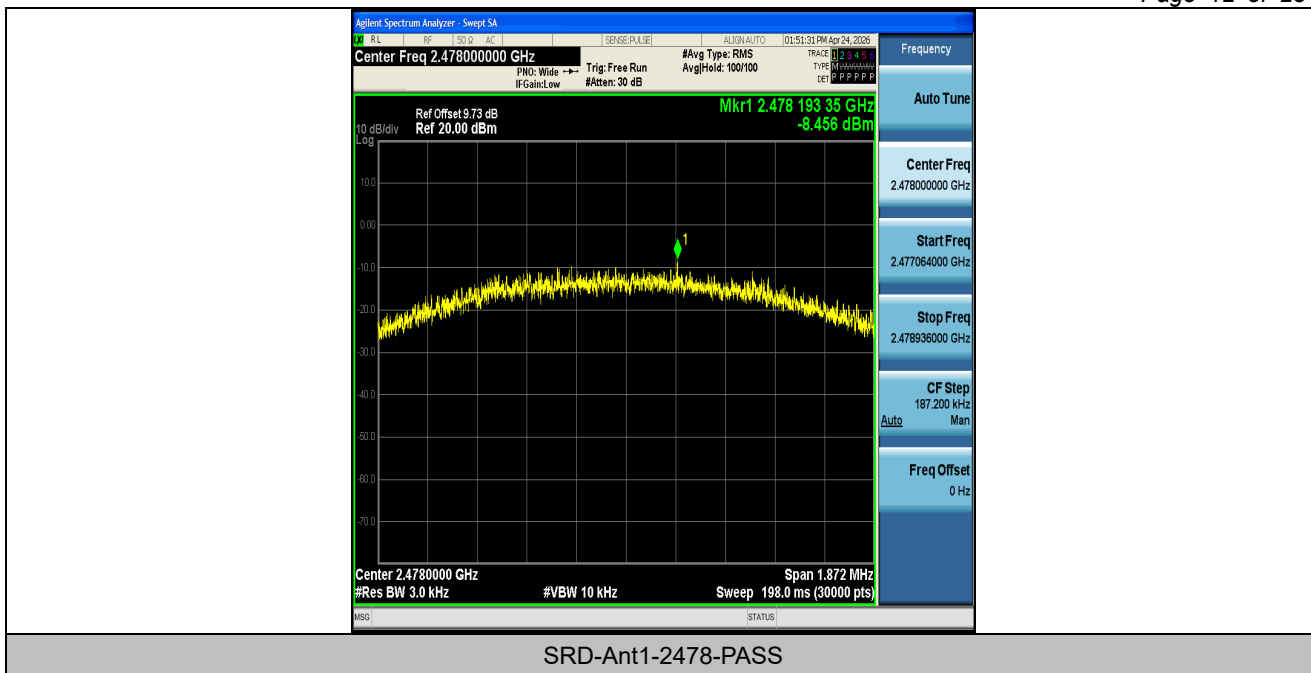
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Band edge measurements

Test Result

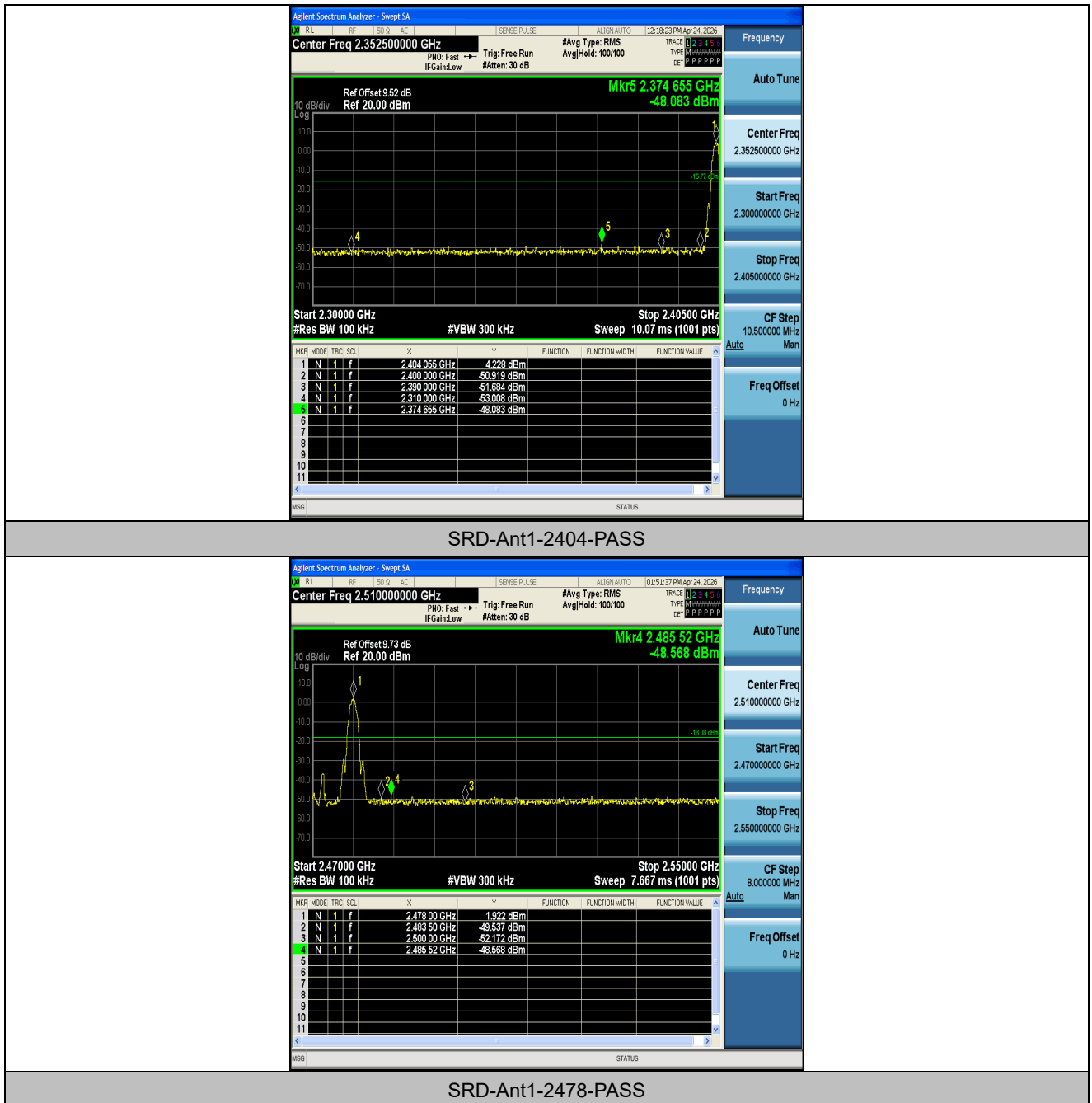
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2404	4.23	-48.08	≤-15.77	PASS
SRD	Ant1	High	2478	1.92	-48.57	≤-18.08	PASS

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





Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

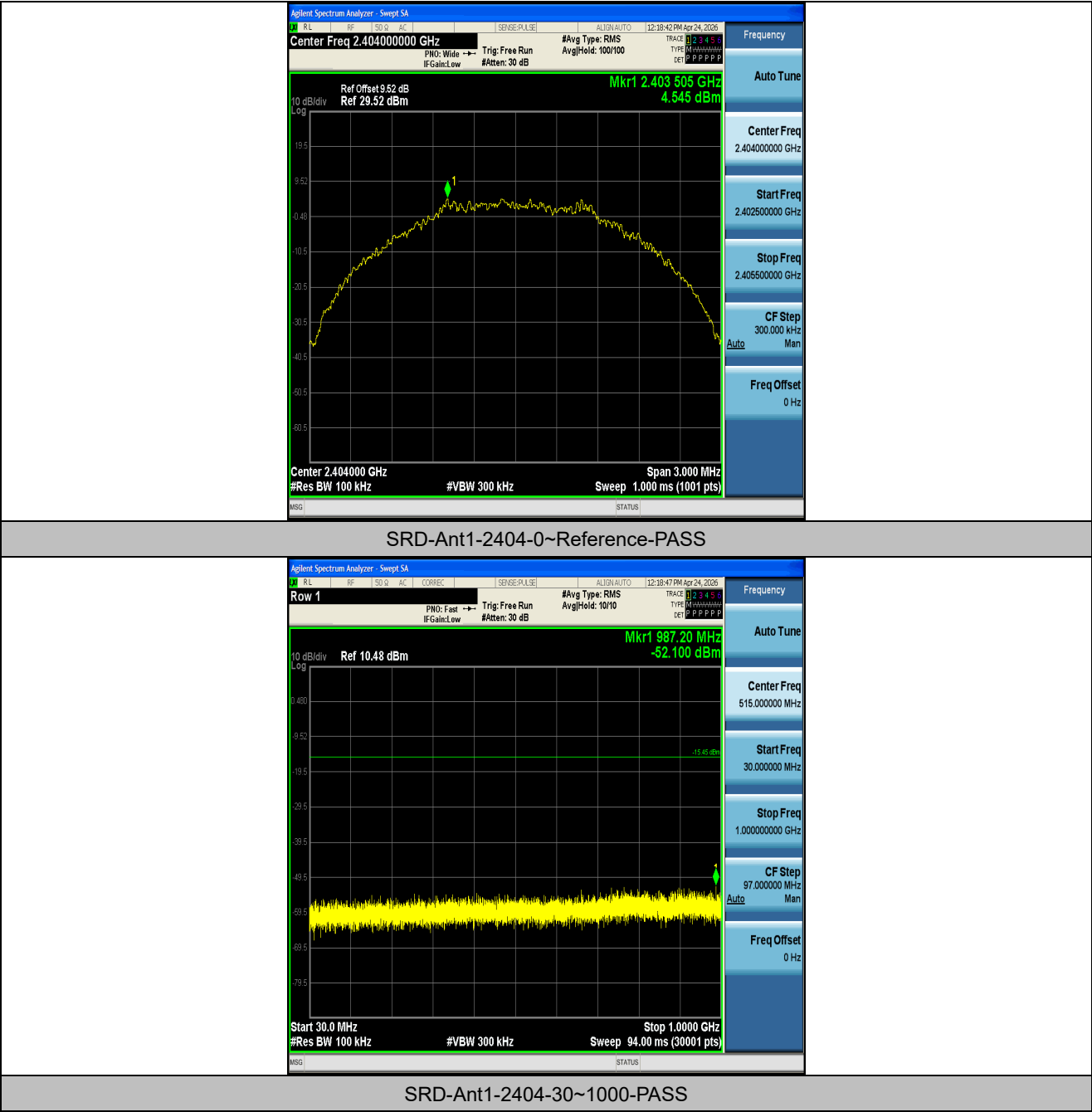
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2404	0~Reference	4.55	4.55	---	PASS
SRD	Ant1	2404	30~1000	4.55	-52.1	≤-15.45	PASS
SRD	Ant1	2404	1000~26500	4.55	-27.24	≤-15.45	PASS
SRD	Ant1	2440	0~Reference	2.86	2.86	---	PASS
SRD	Ant1	2440	30~1000	2.86	-52.49	≤-17.14	PASS
SRD	Ant1	2440	1000~26500	2.86	-27.44	≤-17.14	PASS
SRD	Ant1	2478	0~Reference	1.76	1.76	---	PASS
SRD	Ant1	2478	30~1000	1.76	-52.14	≤-18.24	PASS
SRD	Ant1	2478	1000~26500	1.76	-27.35	≤-18.24	PASS

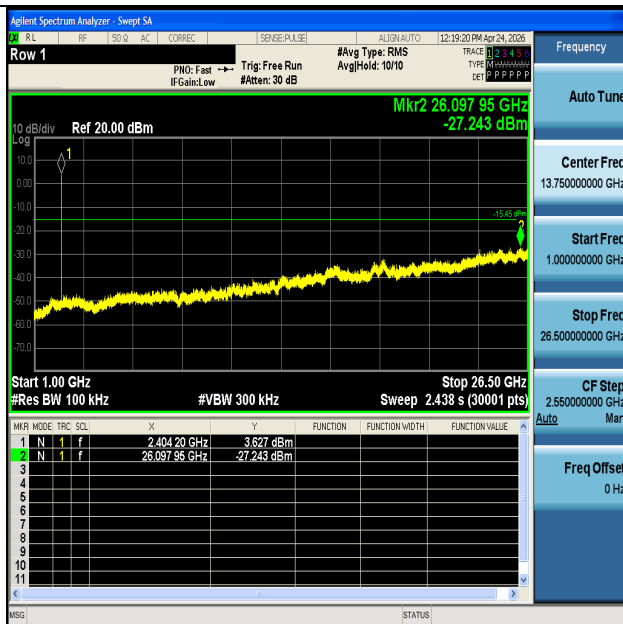
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



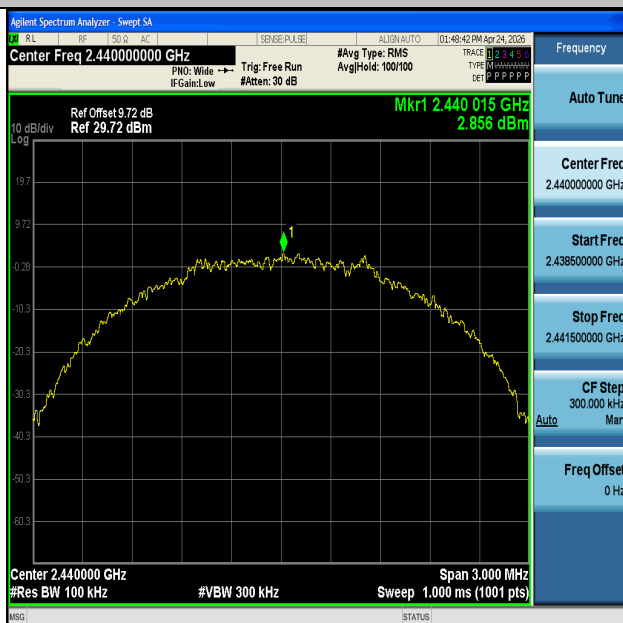


Test Graphs



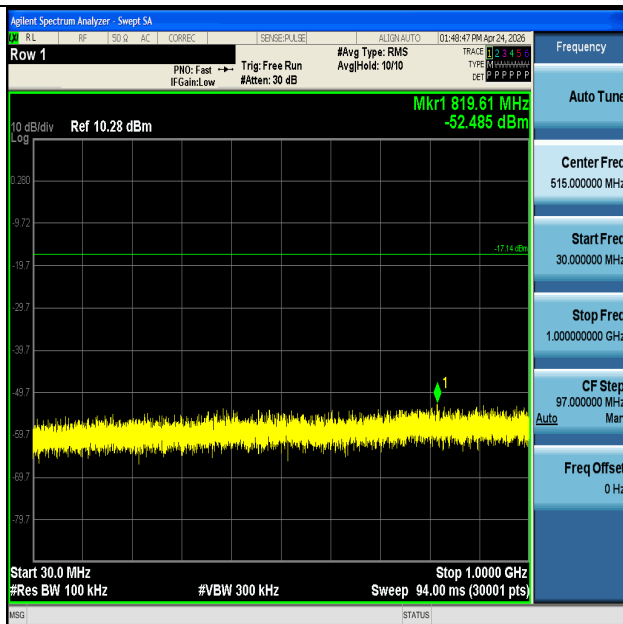


SRD-Ant1-2404-1000~26500-PASS

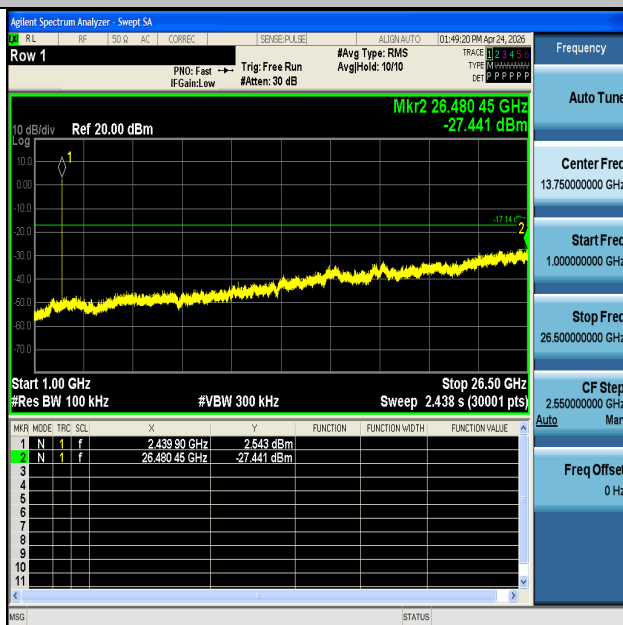


SRD-Ant1-2440-0~Reference-PASS



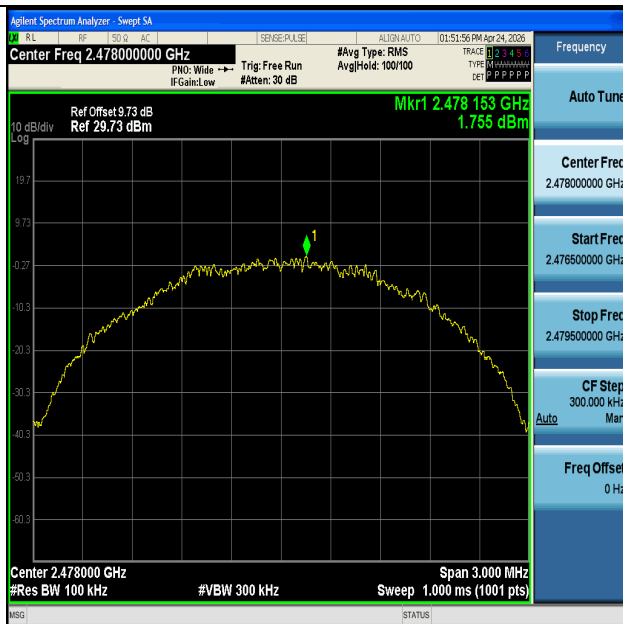


SRD-Ant1-2440-30~1000-PASS

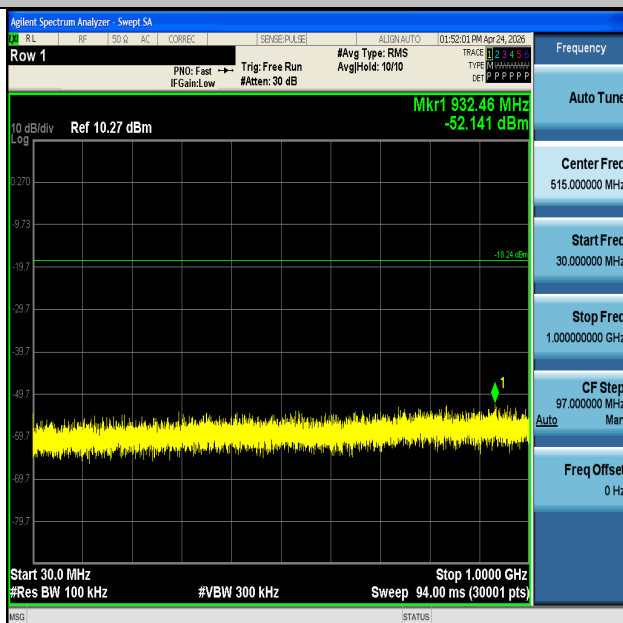


SRD-Ant1-2440-1000~26500-PASS



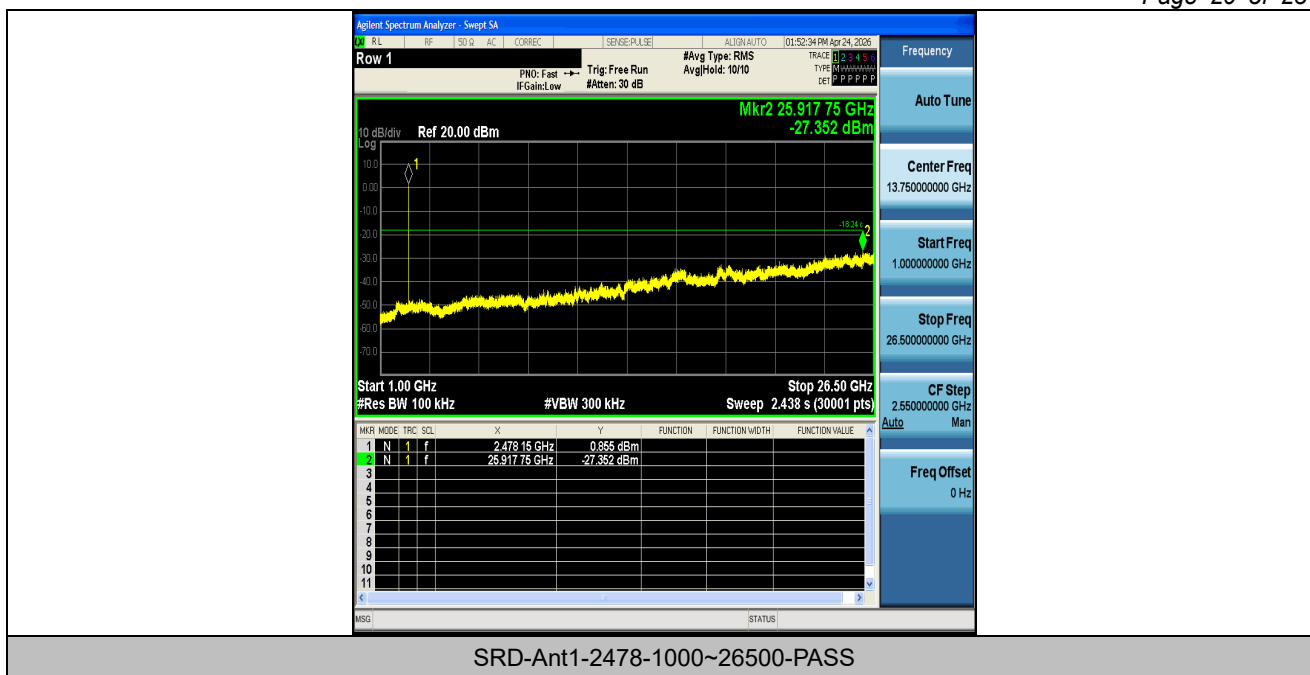


SRD-Ant1-2478-0~Reference-PASS



SRD-Ant1-2478-30~1000-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	2404	0.20	2.54	7.87	11.04
SRD	Ant1	2440	0.20	2.54	7.87	11.04
SRD	Ant1	2478	0.19	2.54	7.48	11.26

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





Test Graphs

