



Appendix Test Data for SRD (Conducted Measurement)

Product Name: Alloy Engineering Remote Control Series

Trade Mark: /

Test Model: YG131

FCC ID: 2BKZ5-YG131

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	0.696	2404.648	2405.344	0.5	PASS
SRD	Ant1	2445	0.772	2444.624	2445.396	0.5	PASS
SRD	Ant1	2475	0.724	2474.648	2475.372	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	1.2869	2404.4385	2405.7254	---	---
SRD	Ant1	2445	1.3642	2444.4097	2445.7739	---	---
SRD	Ant1	2475	1.1939	2474.4186	2475.6125	---	---

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





Test Graphs







Appendix C: Maximum peak conducted output power

Test Result Peak

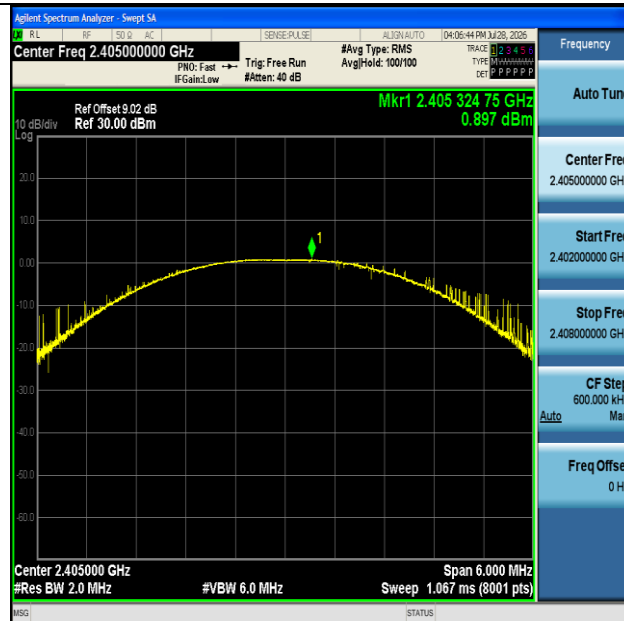
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2405	0.90	≤30	PASS
SRD	Ant1	2445	1.61	≤30	PASS
SRD	Ant1	2475	2.29	≤30	PASS

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





Test Graphs Peak

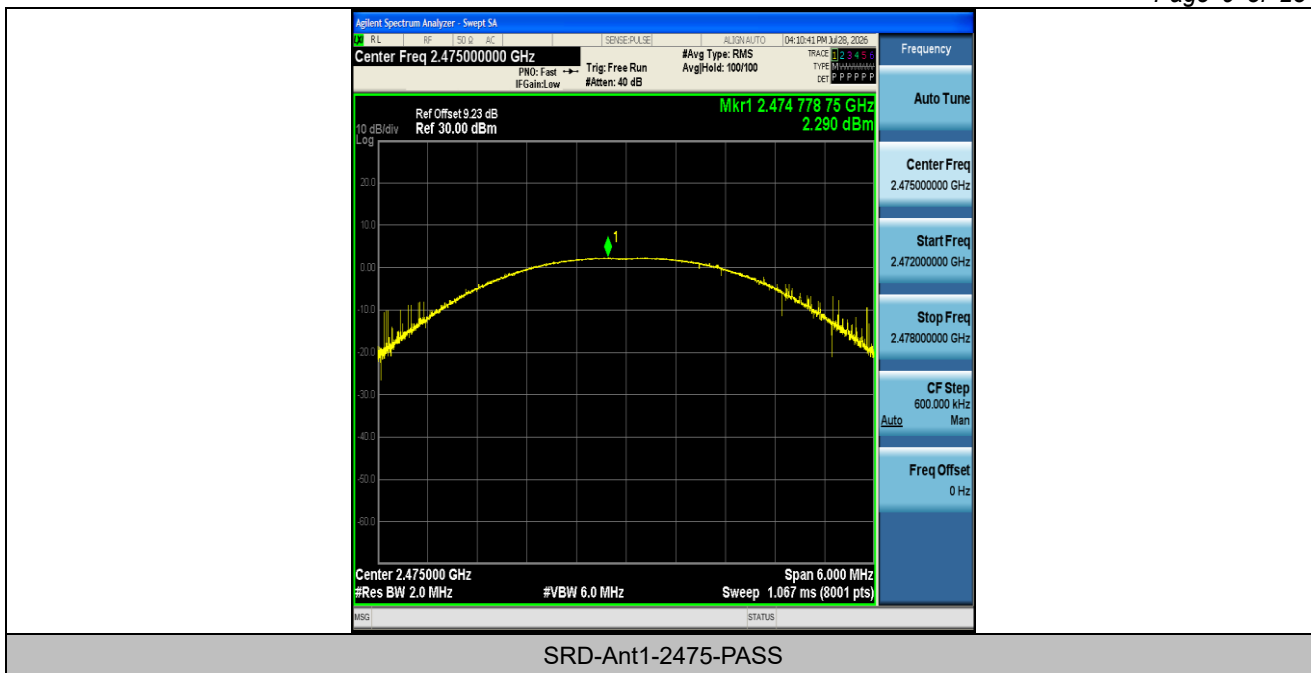


SRD-Ant1-2405-PASS



SRD-Ant1-2445-PASS







Appendix D: Maximum peak power spectral density

Test Result

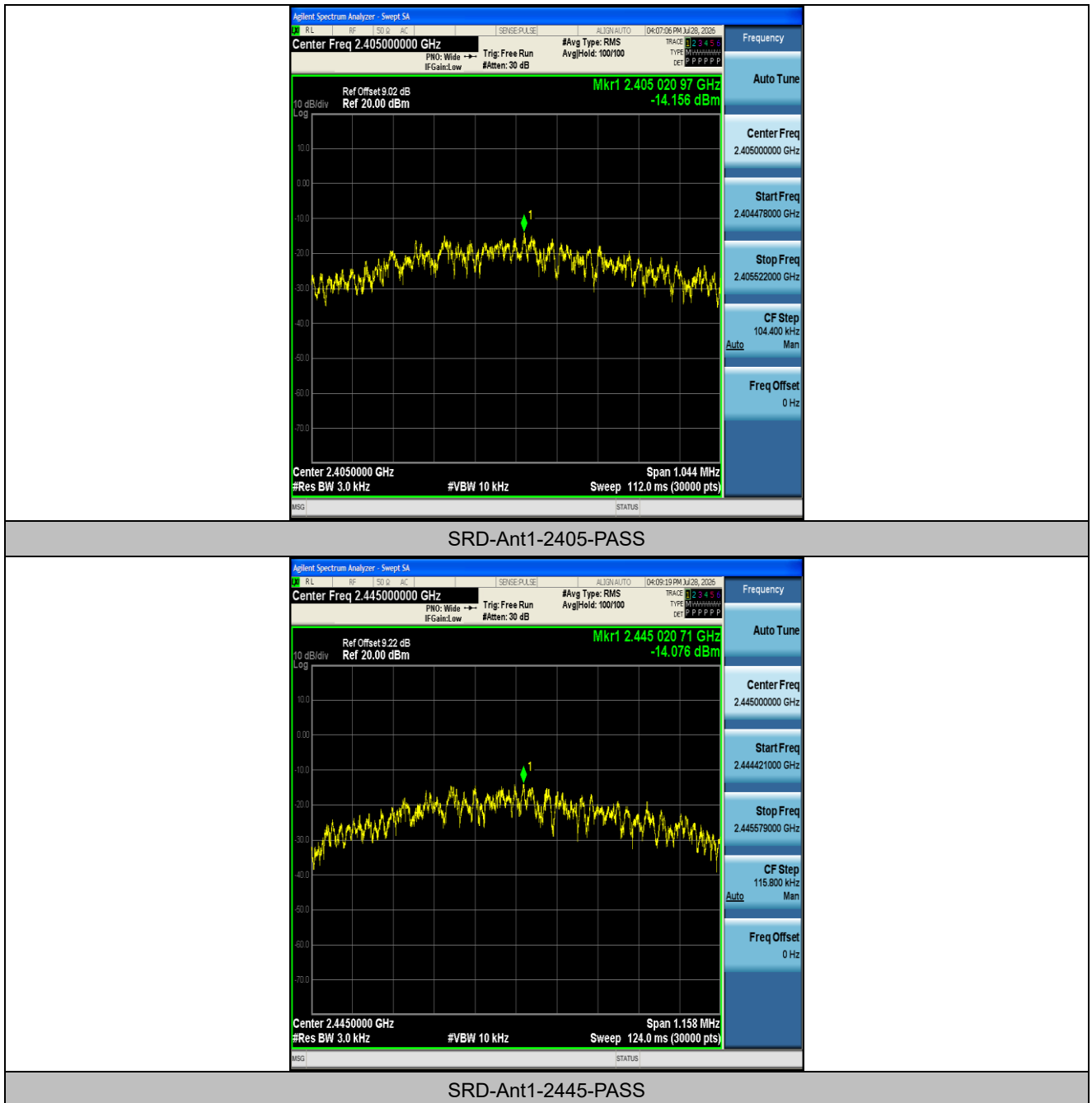
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2405	-14.16	≤8.00	PASS
SRD	Ant1	2445	-14.08	≤8.00	PASS
SRD	Ant1	2475	-13.34	≤8.00	PASS

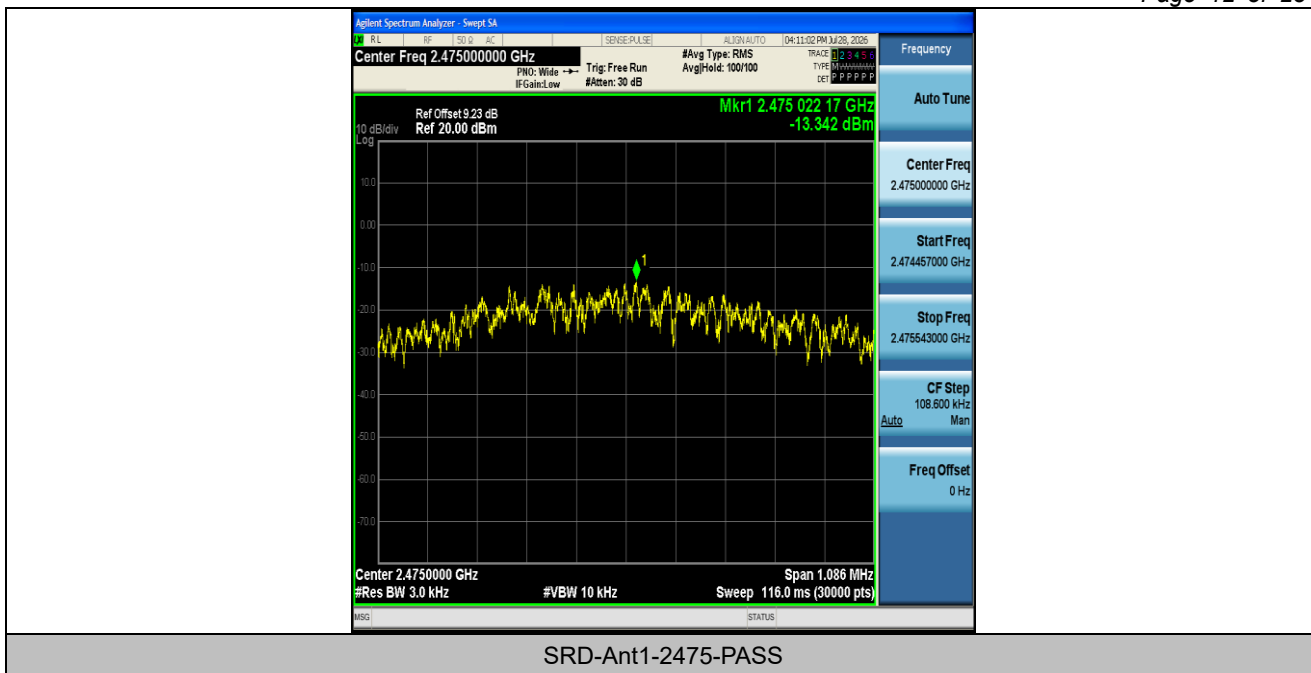
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Band edge measurements

Test Result

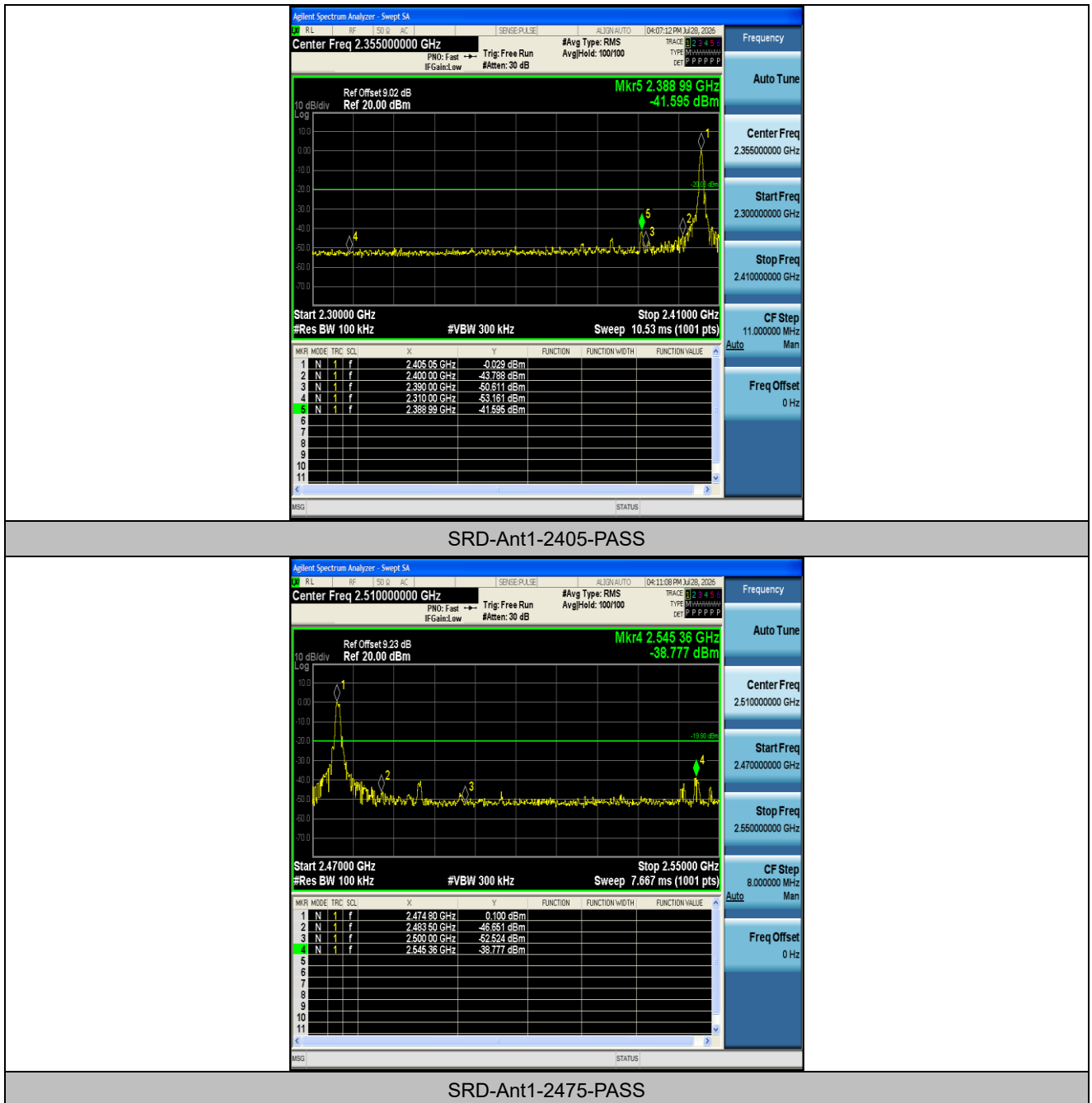
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2405	-0.03	-41.6	≤ -20.03	PASS
SRD	Ant1	High	2475	0.10	-38.78	≤ -19.9	PASS

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





Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

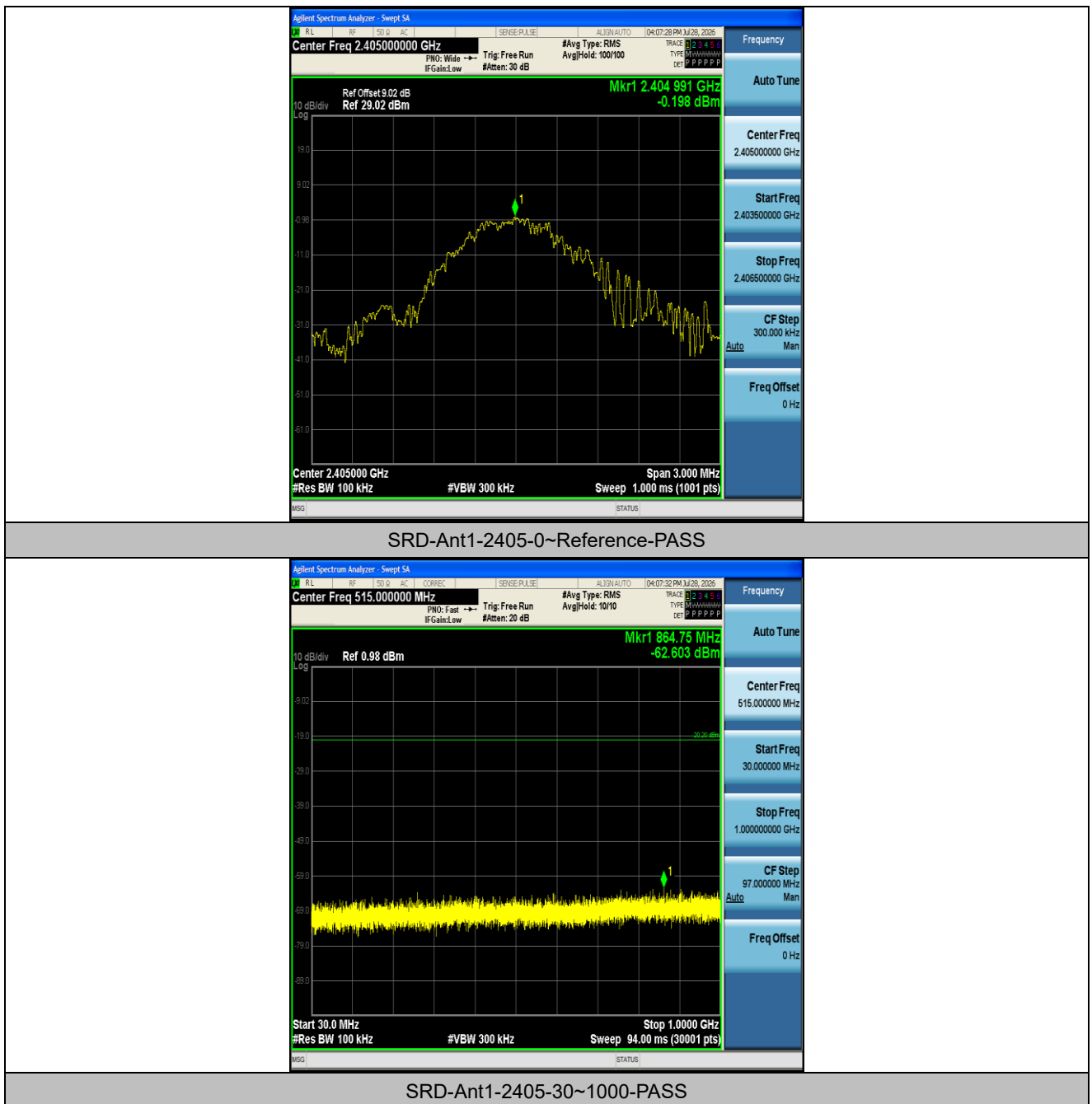
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2405	0~Reference	-0.20	-0.20	---	PASS
SRD	Ant1	2405	30~1000	-0.20	-62.6	≤-20.2	PASS
SRD	Ant1	2405	1000~26500	-0.20	-37.45	≤-20.2	PASS
SRD	Ant1	2445	0~Reference	0.14	0.14	---	PASS
SRD	Ant1	2445	30~1000	0.14	-61.79	≤-19.86	PASS
SRD	Ant1	2445	1000~26500	0.14	-37.58	≤-19.86	PASS
SRD	Ant1	2475	0~Reference	0.98	0.98	---	PASS
SRD	Ant1	2475	30~1000	0.98	-62.72	≤-19.02	PASS
SRD	Ant1	2475	1000~26500	0.98	-37.82	≤-19.02	PASS

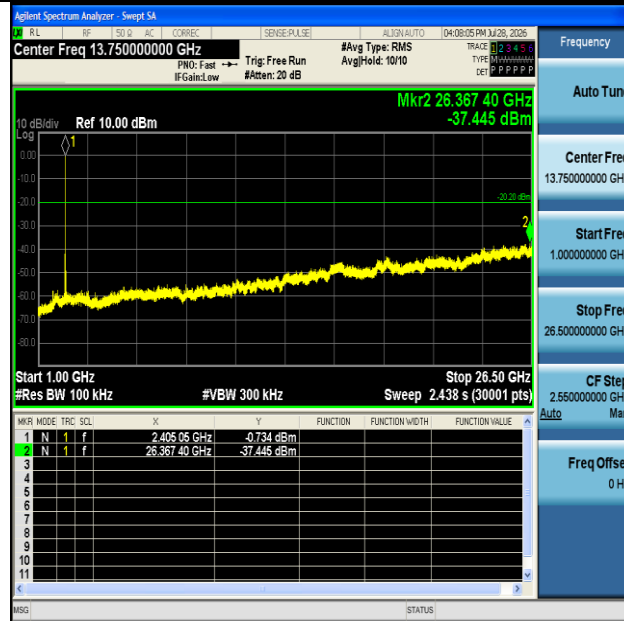
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.





Test Graphs



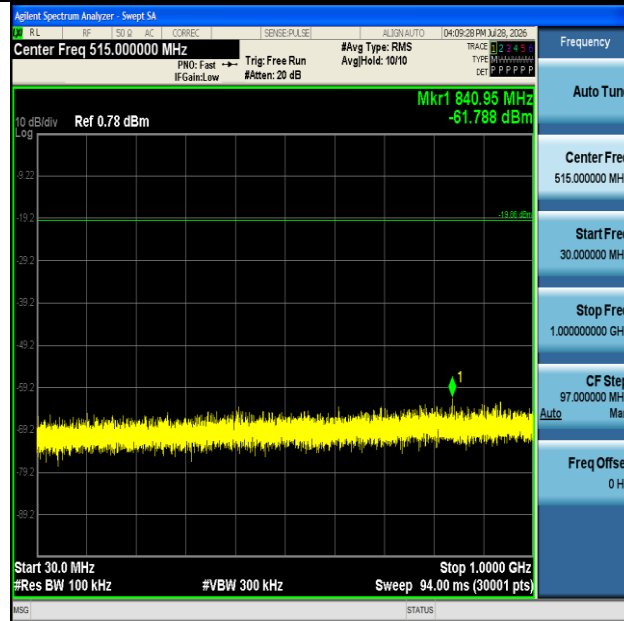


SRD-Ant1-2405-1000~26500-PASS

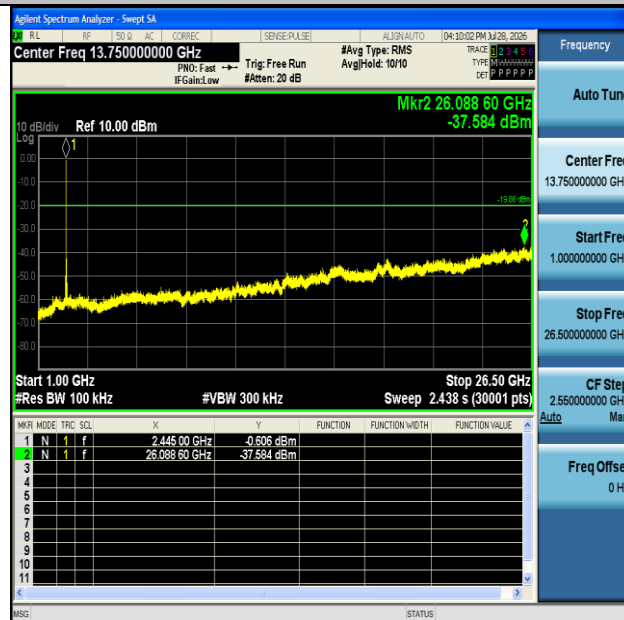


SRD-Ant1-2445-0~Reference-PASS





SRD-Ant1-2445-30~1000-PASS

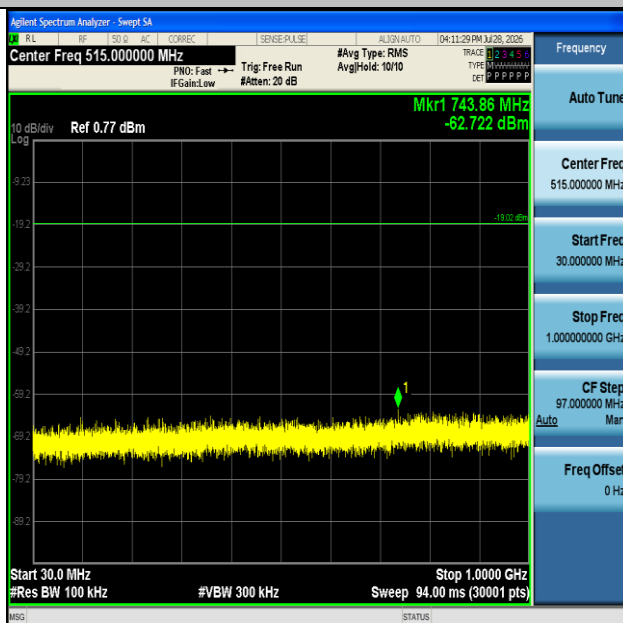


SRD-Ant1-2445-1000~26500-PASS



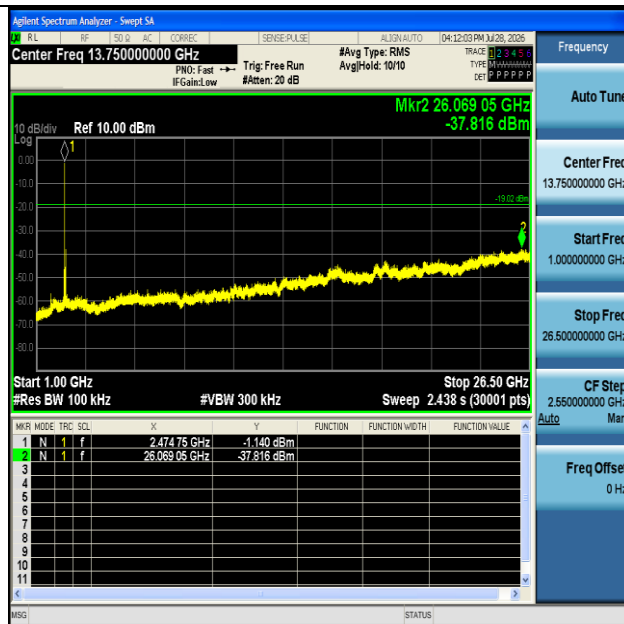


SRD-Ant1-2475-0~Reference-PASS



SRD-Ant1-2475-30~1000-PASS





SRD-Ant1-2475-1000~26500-PASS





Appendix G: Duty Cycle

Test Result

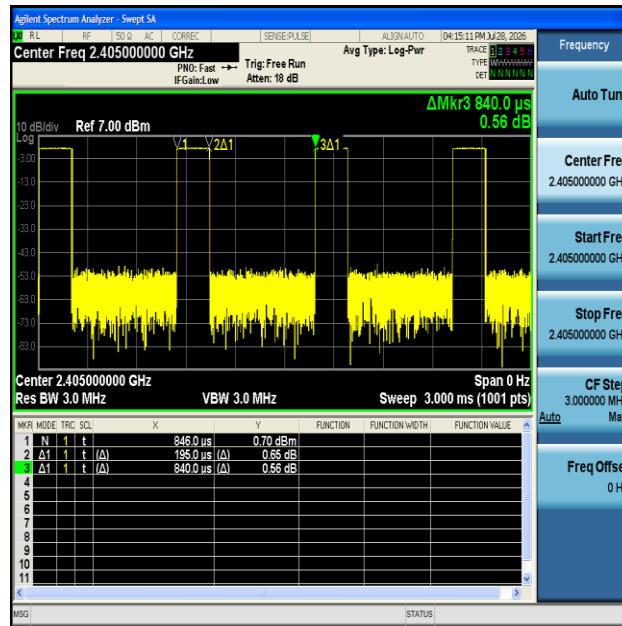
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD	Ant1	2405	0.20	0.84	23.81	6.23
SRD	Ant1	2445	0.19	0.83	22.89	6.40
SRD	Ant1	2475	0.19	0.84	22.62	6.46

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

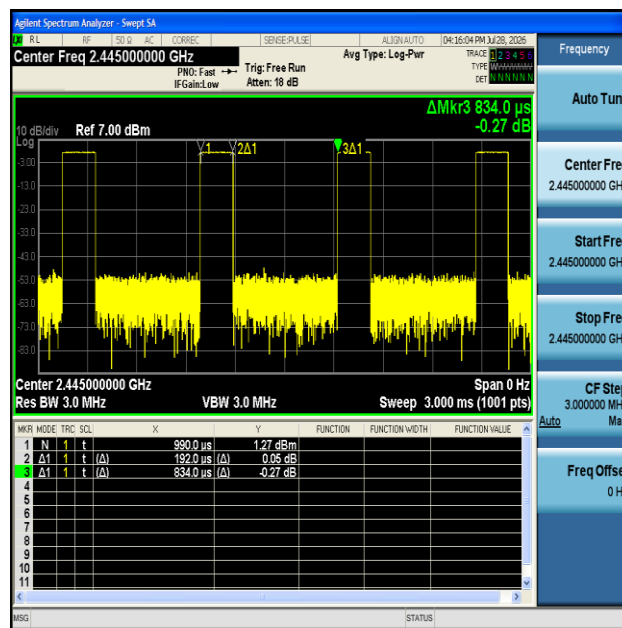




Test Graphs

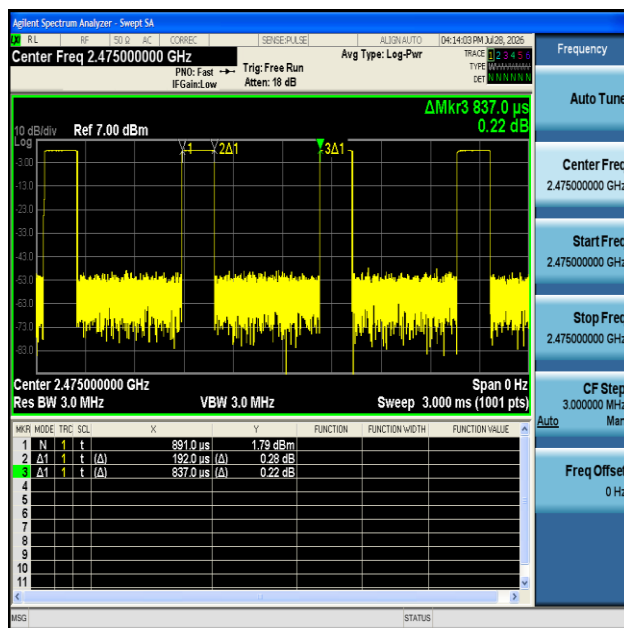


NTNV-SRD-Ant1-2405



NTNV-SRD-Ant1-2445





NTNV-SRD-Ant1-2475

