



Appendix Test Data for SRD (Conducted Measurement)

Product Name: Toy series

Trade Mark: /

Test Model: DF51

FCC ID: 2BS66-DF51

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

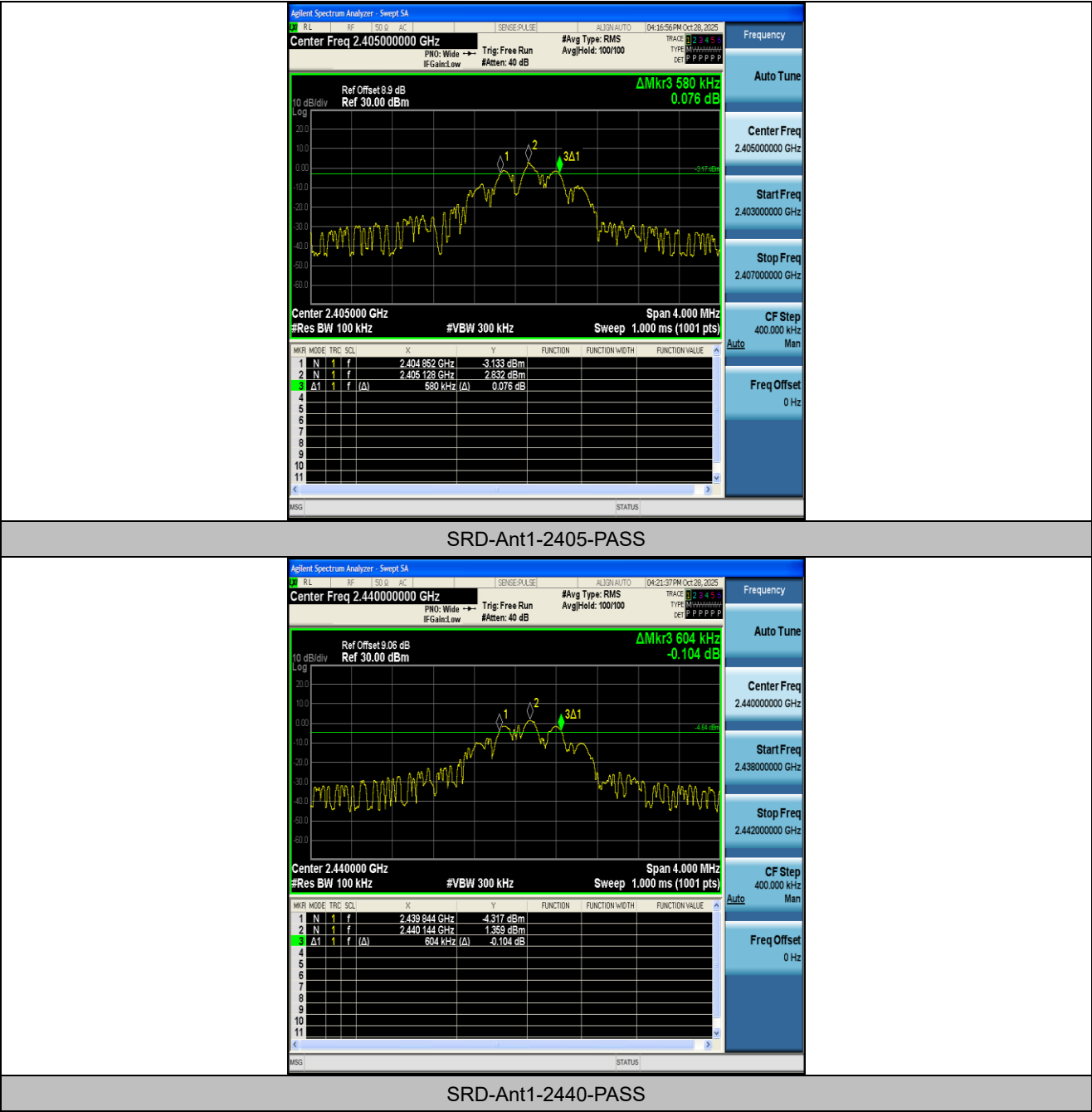
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2405	0.580	2404.852	2405.432	0.5	PASS
SRD	Ant1	2440	0.604	2439.844	2440.448	0.5	PASS
SRD	Ant1	2475	0.608	2474.840	2475.448	0.5	PASS

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





Test Graphs





SRD-Ant1-2475-PASS





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2405	1.0536	2404.6104	2405.6640	---	---
SRD	Ant1	2440	1.1128	2439.5589	2440.6717	---	---
SRD	Ant1	2475	1.1103	2474.5675	2475.6778	---	---

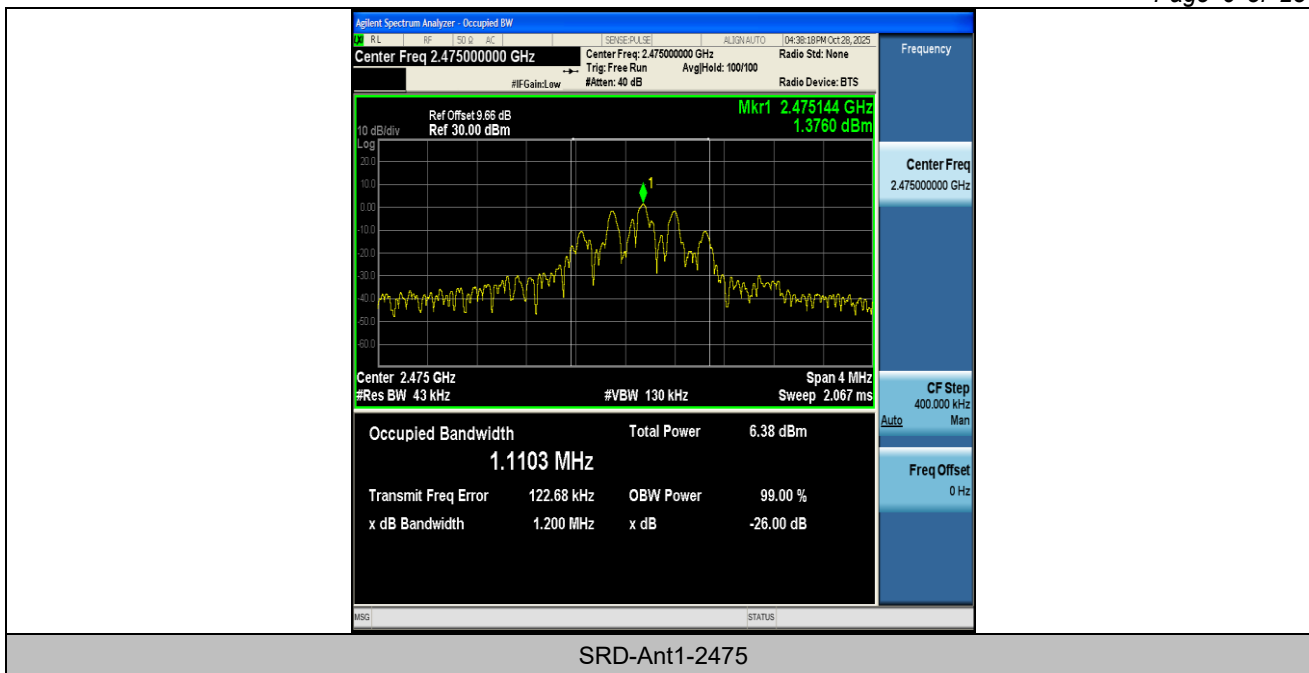
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix C: Maximum peak conducted output power

Test Result Peak

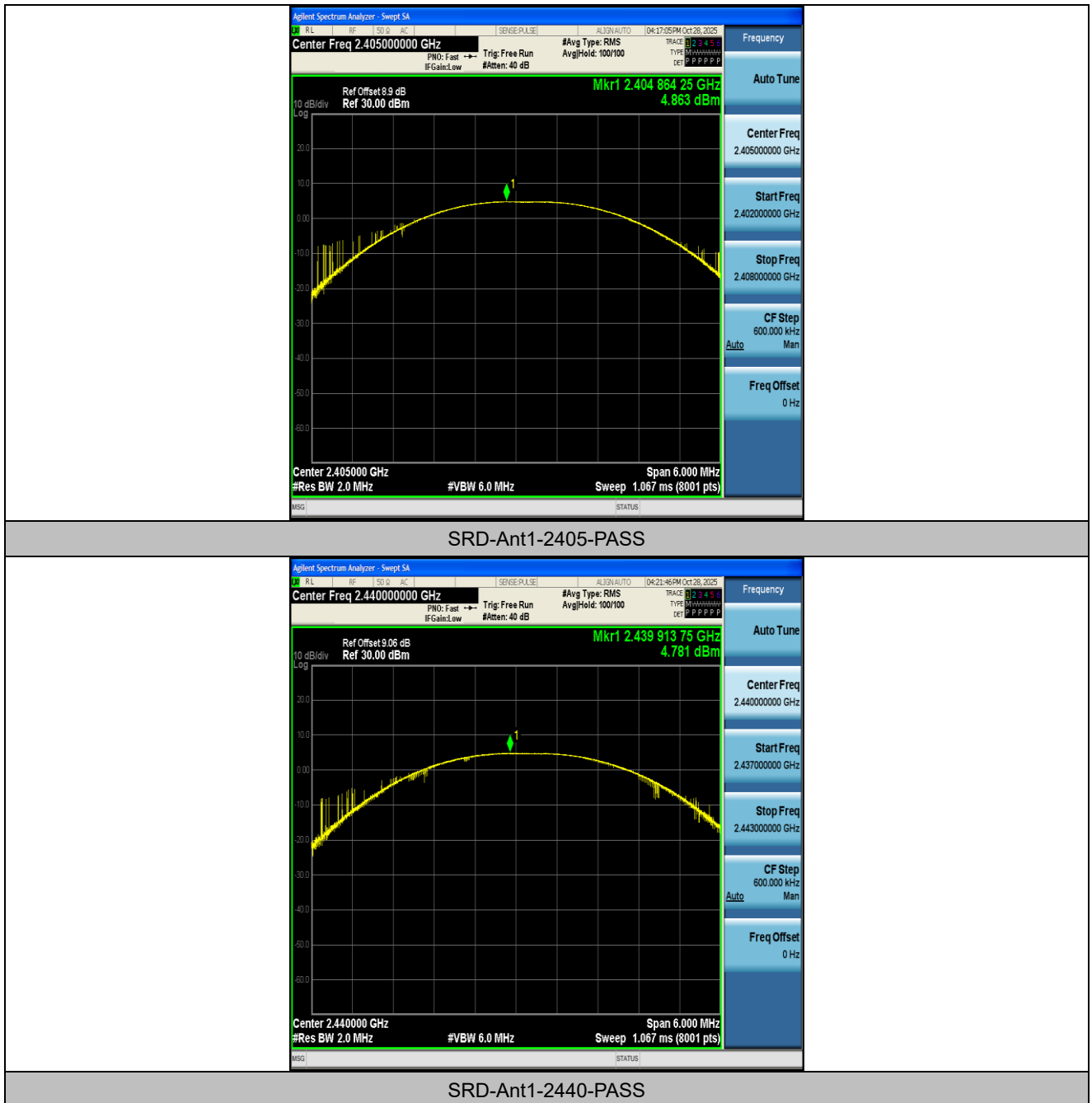
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2405	4.86	≤30	PASS
SRD	Ant1	2440	4.78	≤30	PASS
SRD	Ant1	2475	4.81	≤30	PASS

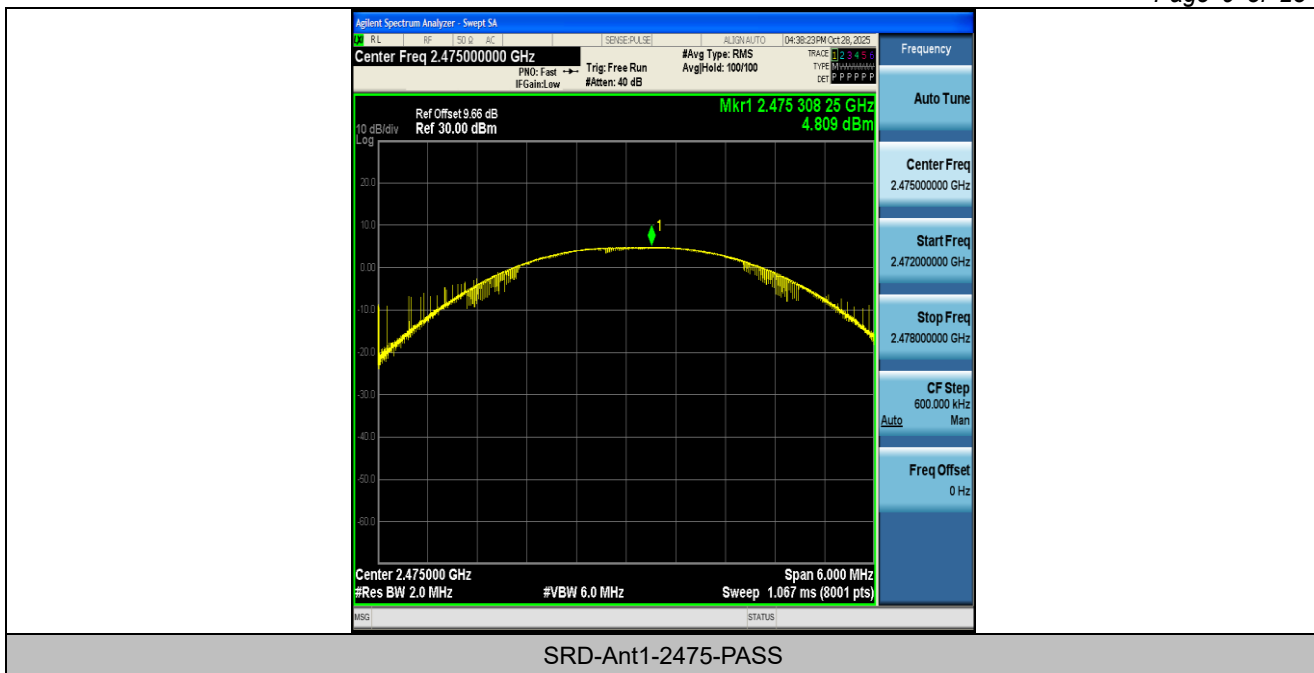
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs Peak







Appendix D: Maximum peak power spectral density

Test Result

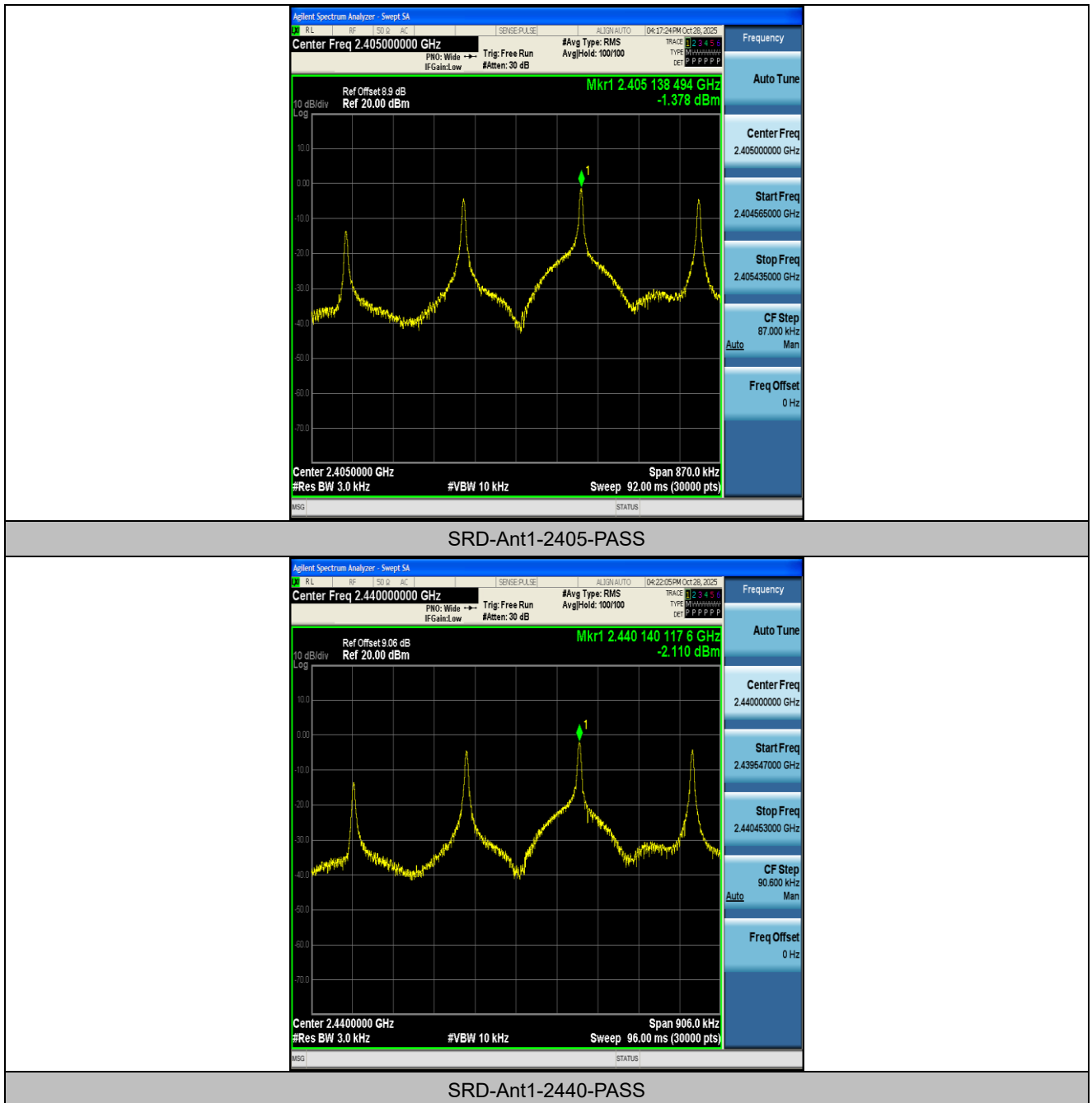
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2405	-1.38	≤8.00	PASS
SRD	Ant1	2440	-2.11	≤8.00	PASS
SRD	Ant1	2475	-1.31	≤8.00	PASS

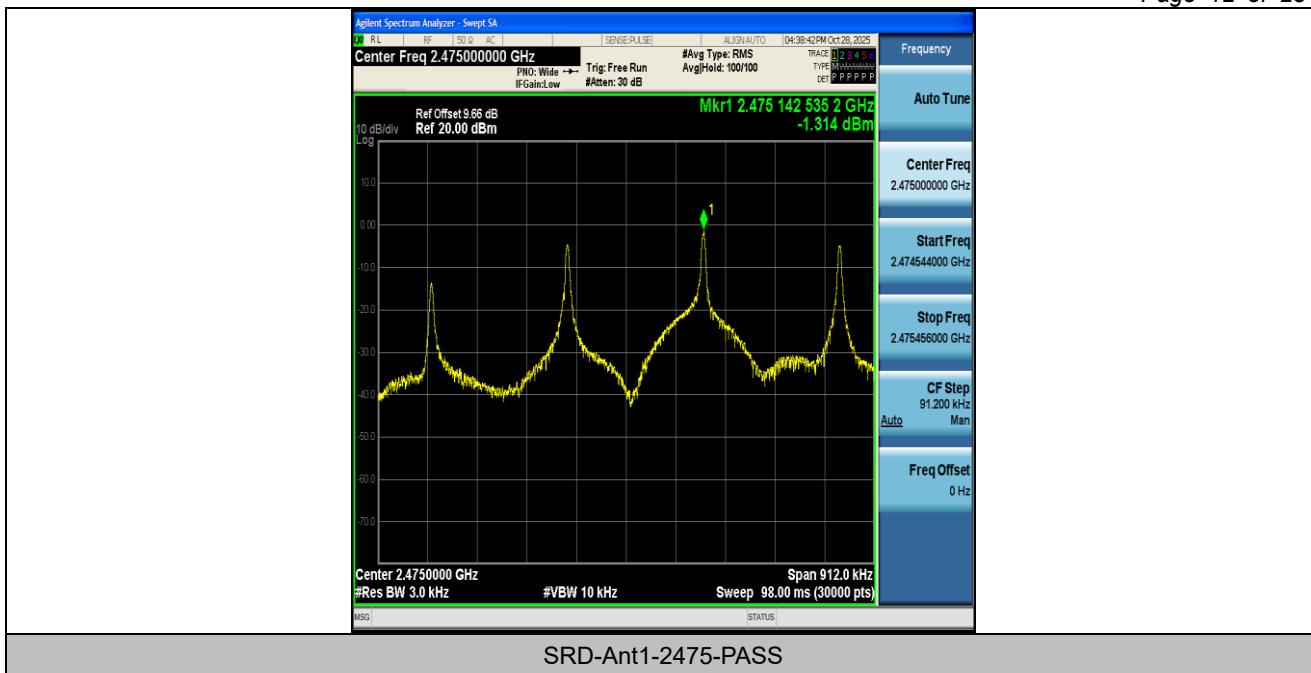
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Band edge measurements

Test Result

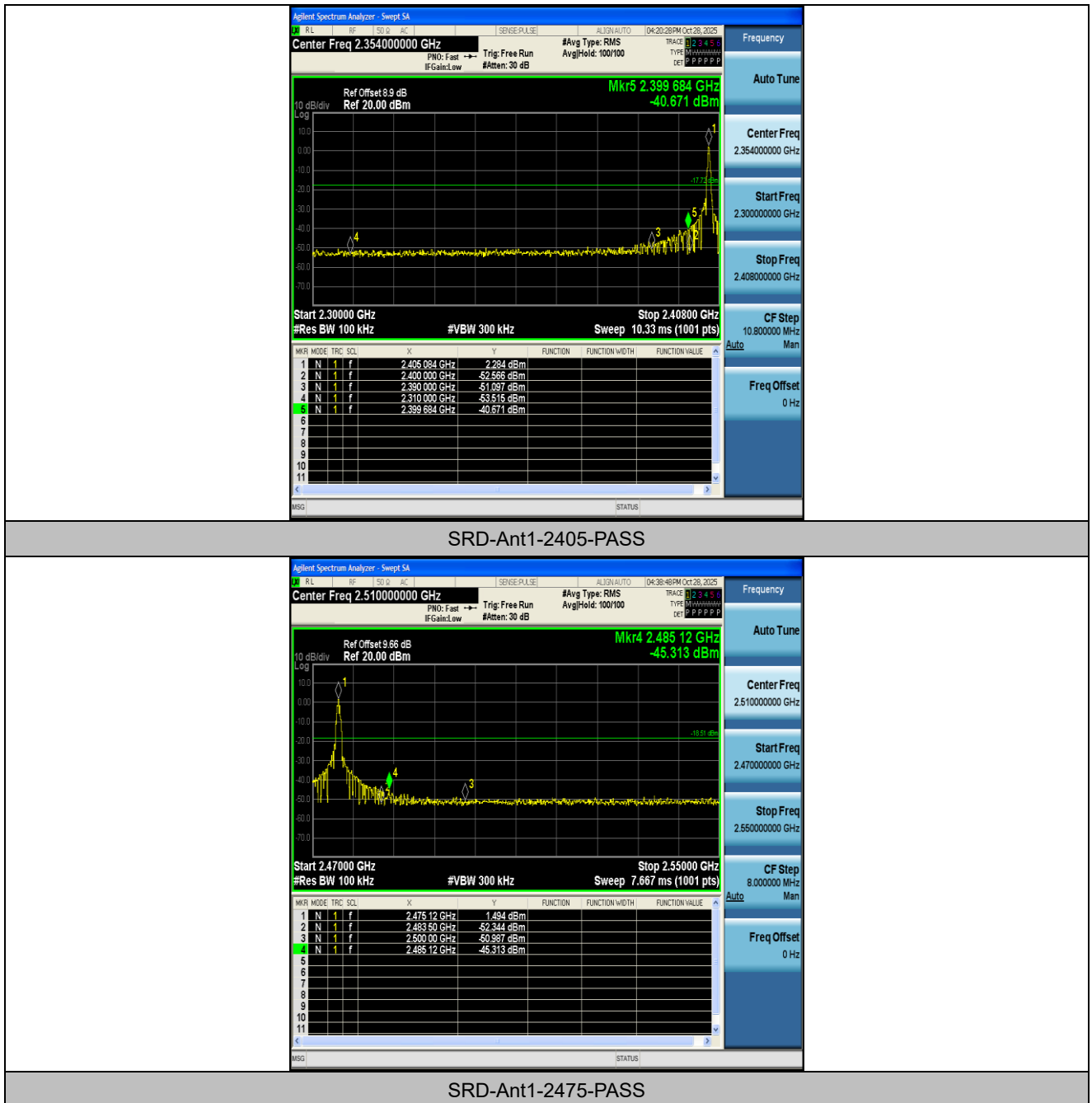
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2405	2.28	-40.67	≤ -17.72	PASS
SRD	Ant1	High	2475	1.49	-45.31	≤ -18.51	PASS

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	2.79	2.79	---	PASS
SRD	Ant1	2405	30~1000	2.79	-62.48	≤-17.21	PASS
SRD	Ant1	2405	1000~26500	2.79	-45.5	≤-17.21	PASS
SRD	Ant1	2440	0~Reference	2.91	2.91	---	PASS
SRD	Ant1	2440	30~1000	2.91	-62.77	≤-17.09	PASS
SRD	Ant1	2440	1000~26500	2.91	-44.97	≤-17.09	PASS
SRD	Ant1	2475	0~Reference	2.95	2.95	---	PASS
SRD	Ant1	2475	30~1000	2.95	-61.44	≤-17.05	PASS
SRD	Ant1	2475	1000~26500	2.95	-44.82	≤-17.05	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.

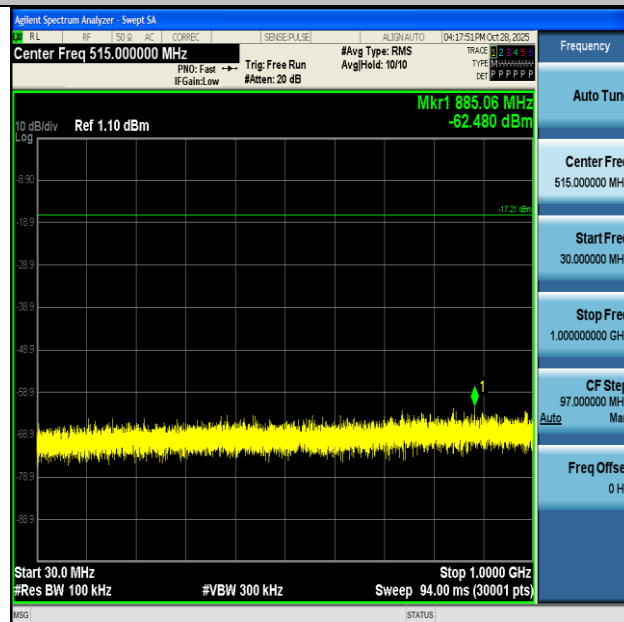




Test Graphs

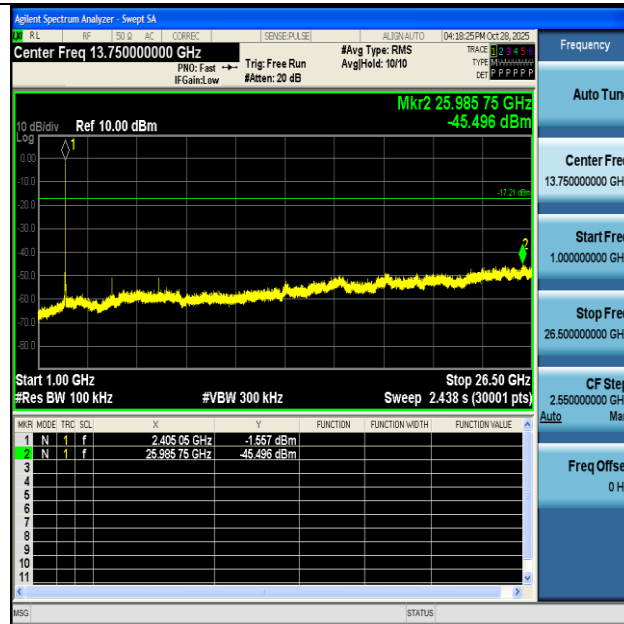


SRD-Ant1-2405-0~Reference-PASS

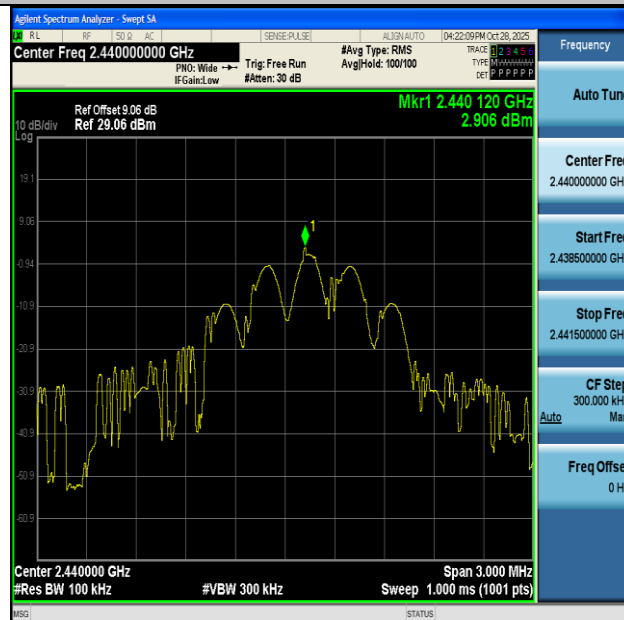


SRD-Ant1-2405-30~1000-PASS





SRD-Ant1-2405-1000~26500-PASS

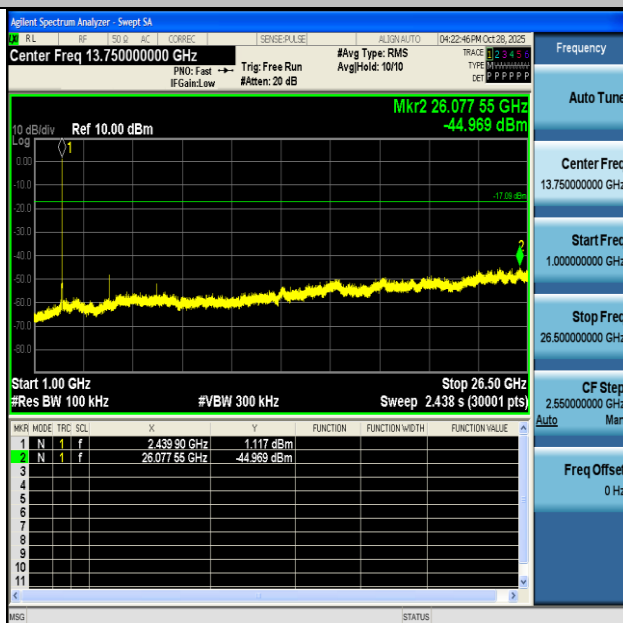


SRD-Ant1-2440-0~Reference-PASS



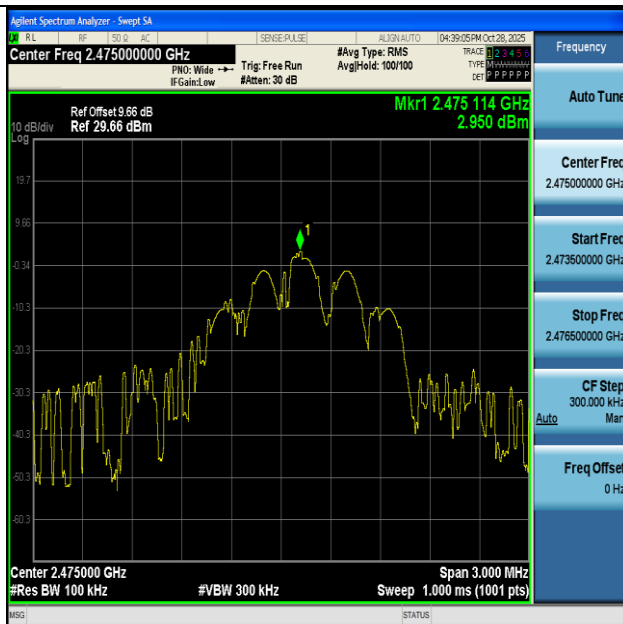


SRD-Ant1-2440-30~1000-PASS

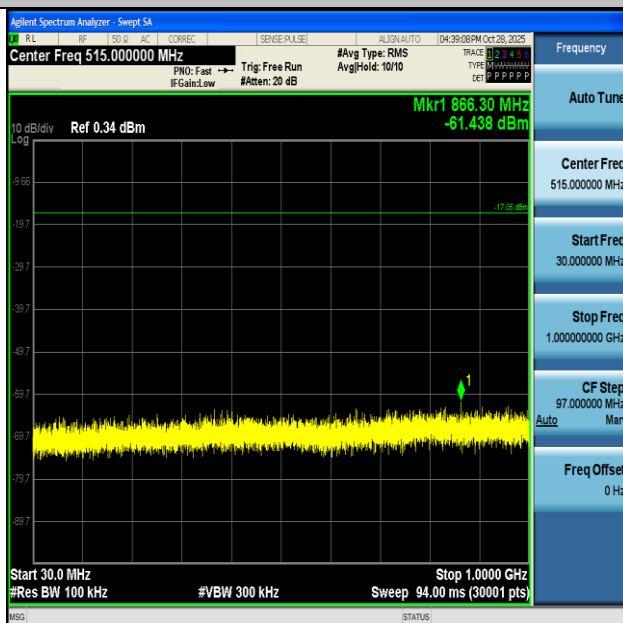


SRD-Ant1-2440-1000~26500-PASS



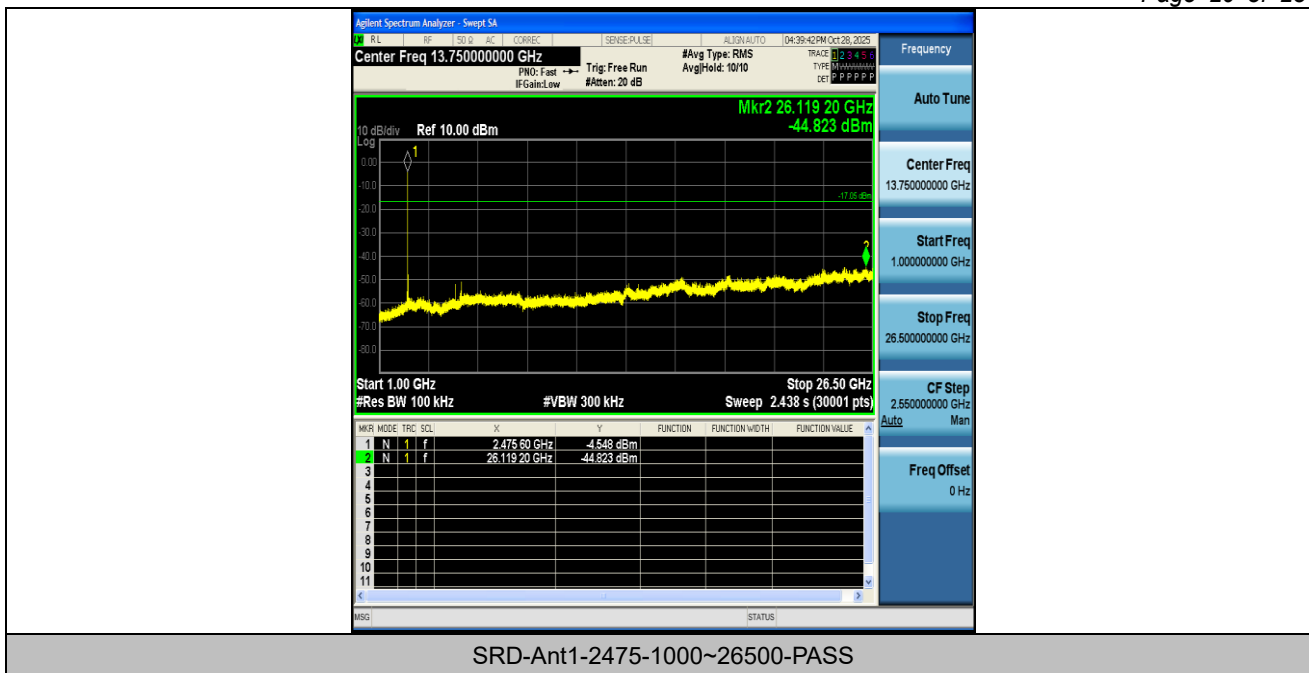


SRD-Ant1-2475-0~Reference-PASS



SRD-Ant1-2475-30~1000-PASS







Appendix G: Duty Cycle

Test Result

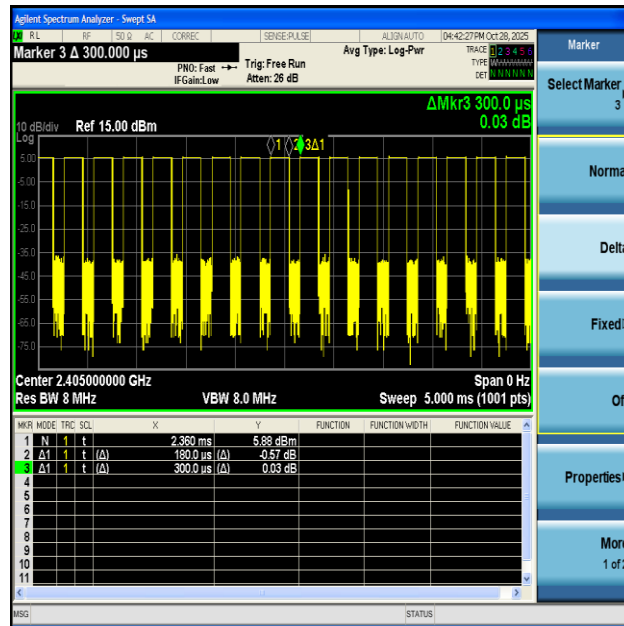
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD	Ant1	2405	0.18	0.30	60.00	2.22
SRD	Ant1	2440	0.18	0.31	58.26	2.35
SRD	Ant1	2475	0.18	0.29	62.07	2.07

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

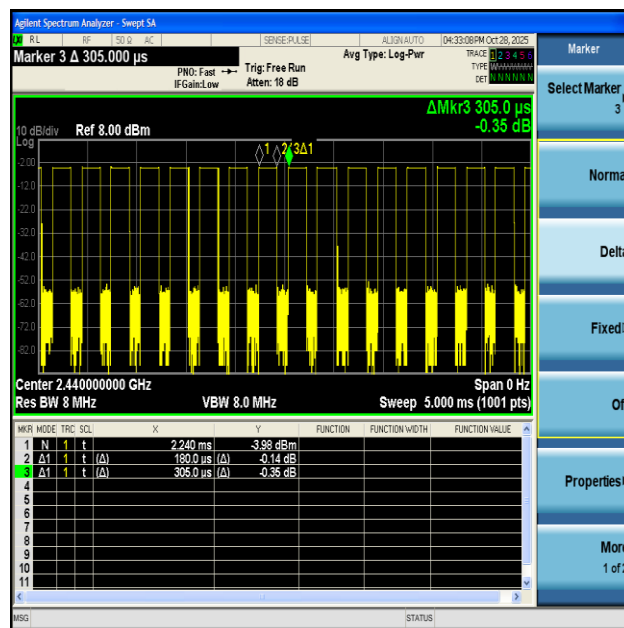




Test Graphs

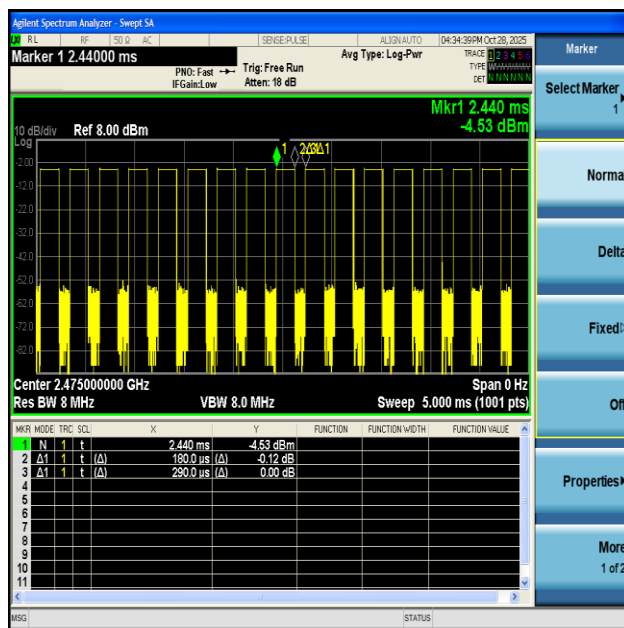


NTNV-SRD-Ant1-2405



NTNV-SRD-Ant1-2440





NTNV-SRD-Ant1-2475

