

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: K1 Max

FCC ID: 2ASF4-K1MAX

Environmental Conditions

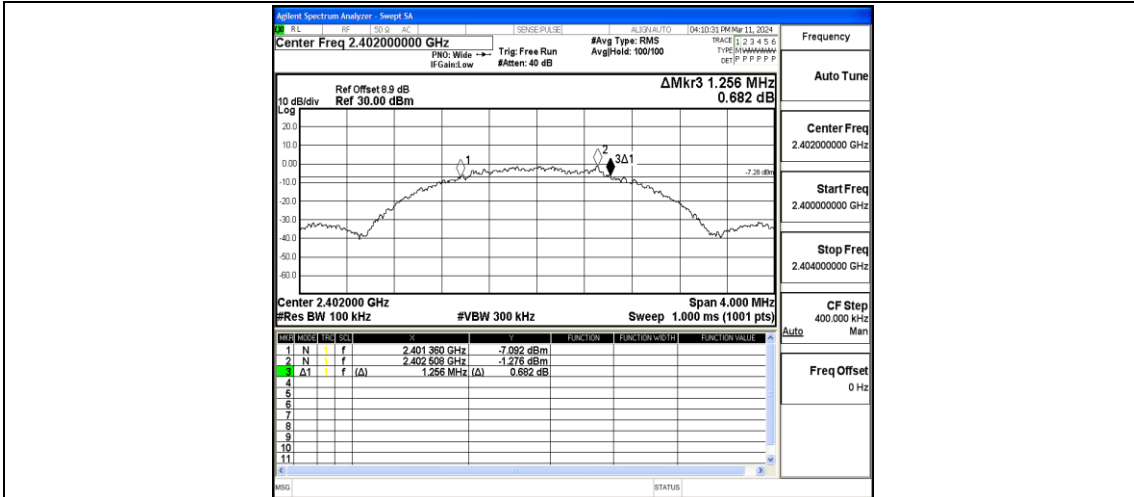
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

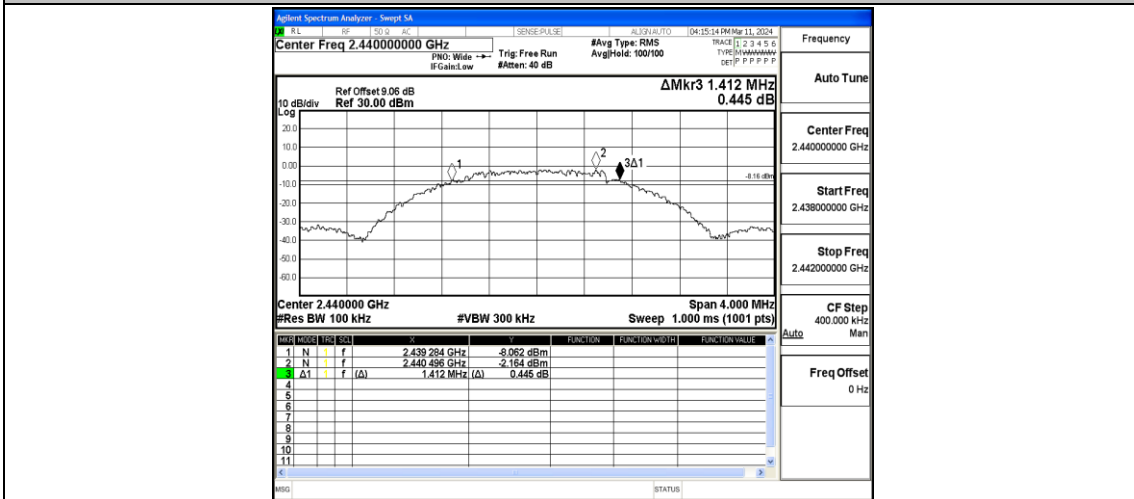
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.256	2401.360	2402.616	0.5	PASS
SRD	Ant1	2440	1.412	2439.284	2440.696	0.5	PASS
SRD	Ant1	2480	1.284	2479.392	2480.676	0.5	PASS

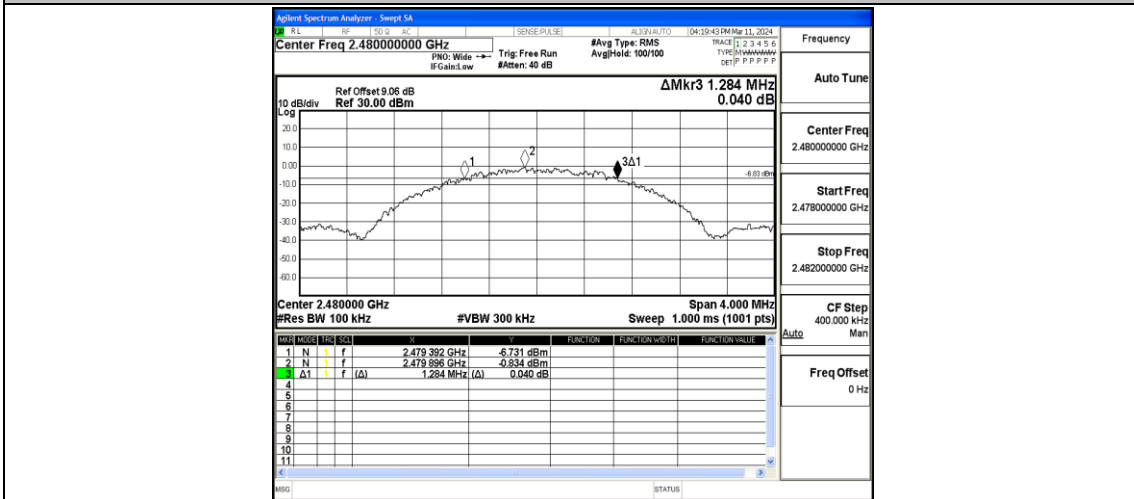
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



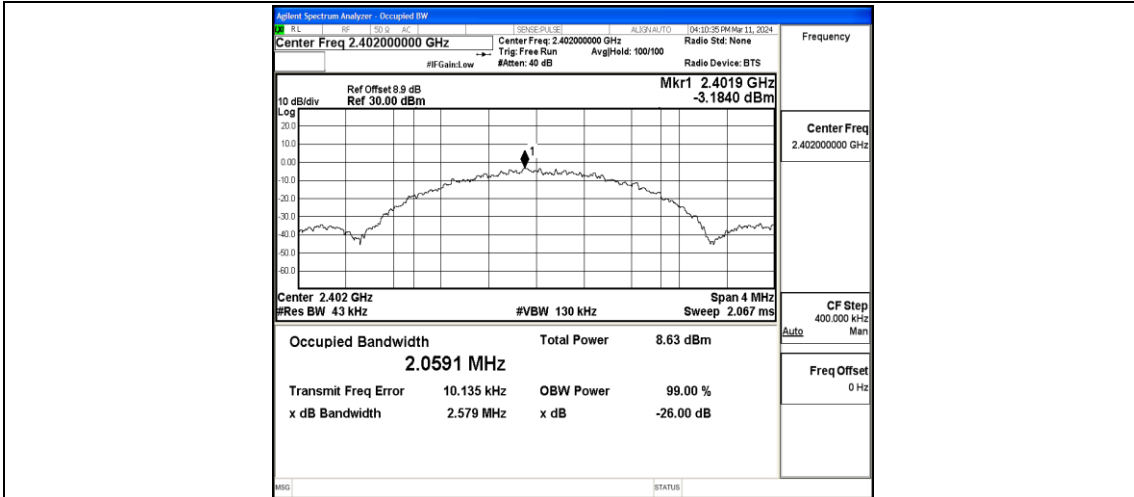
SRD-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

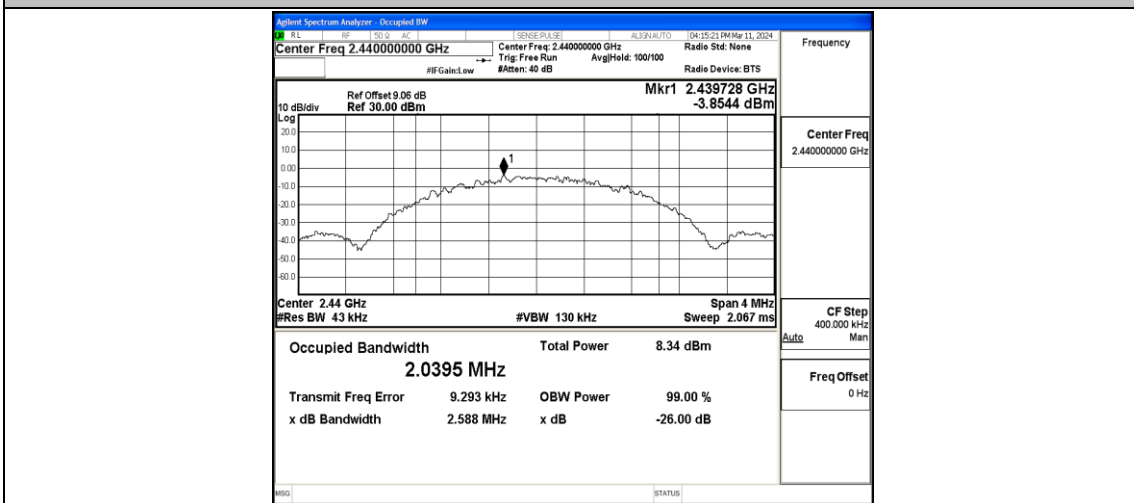
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0591	2400.9806	2403.0397	---	---
SRD	Ant1	2440	2.0395	2438.9895	2441.0290	---	---
SRD	Ant1	2480	2.0359	2478.9922	2481.0281	---	---

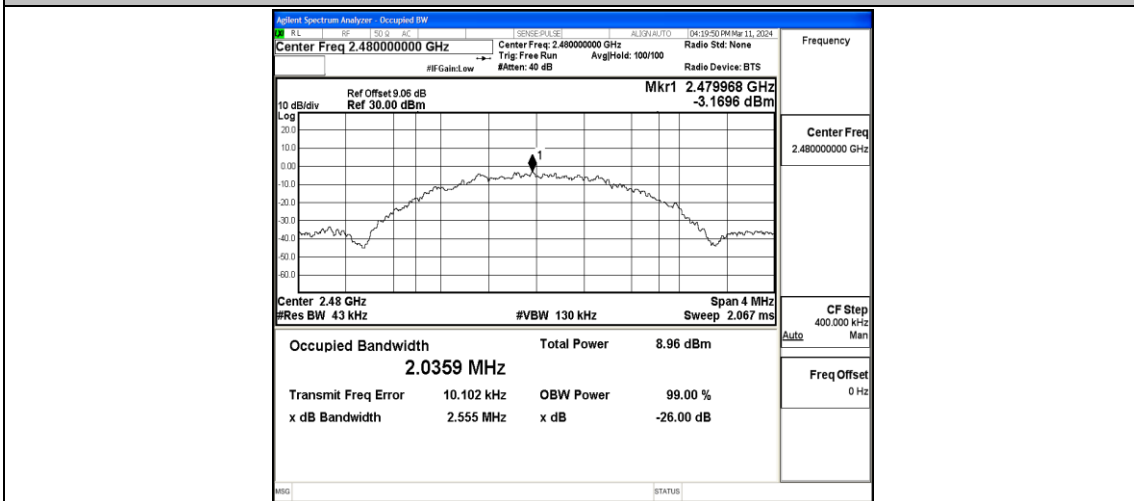
Test Graphs



SRD-Ant1-2402



SRD-Ant1-2440



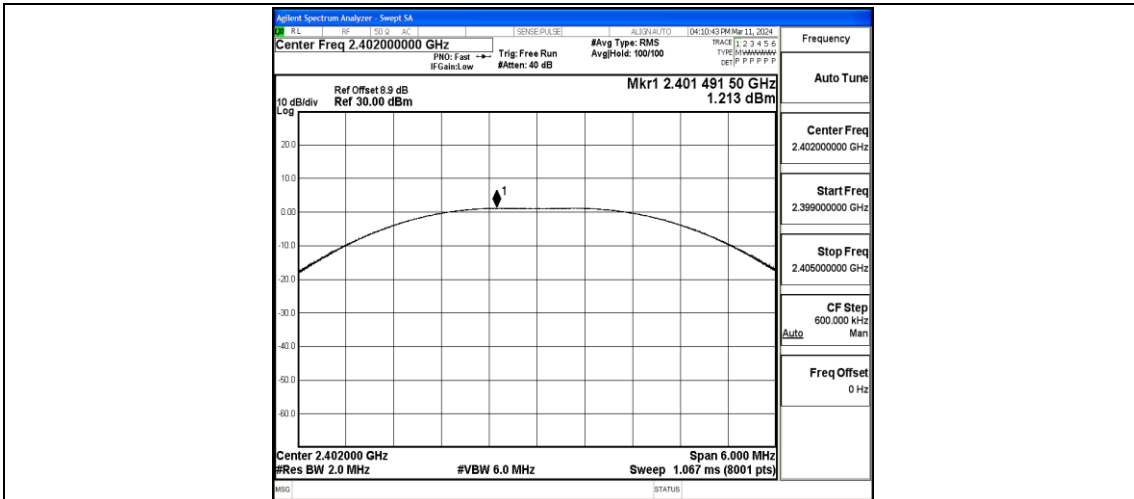
SRD-Ant1-2480

Appendix C: Maximum peak conducted output power

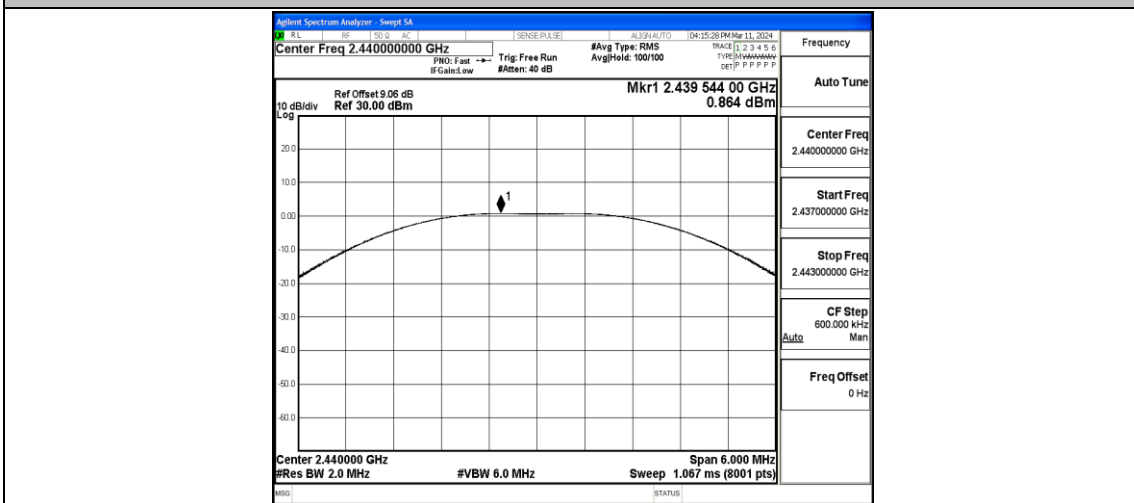
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	1.21	≤30	PASS
SRD	Ant1	2440	0.86	≤30	PASS
SRD	Ant1	2480	1.26	≤30	PASS

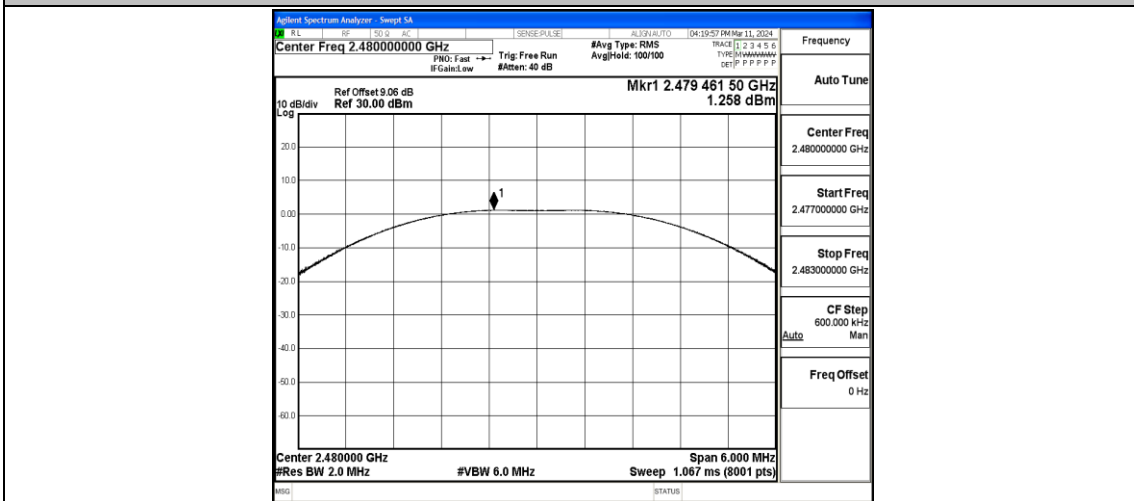
Test Graphs Peak



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



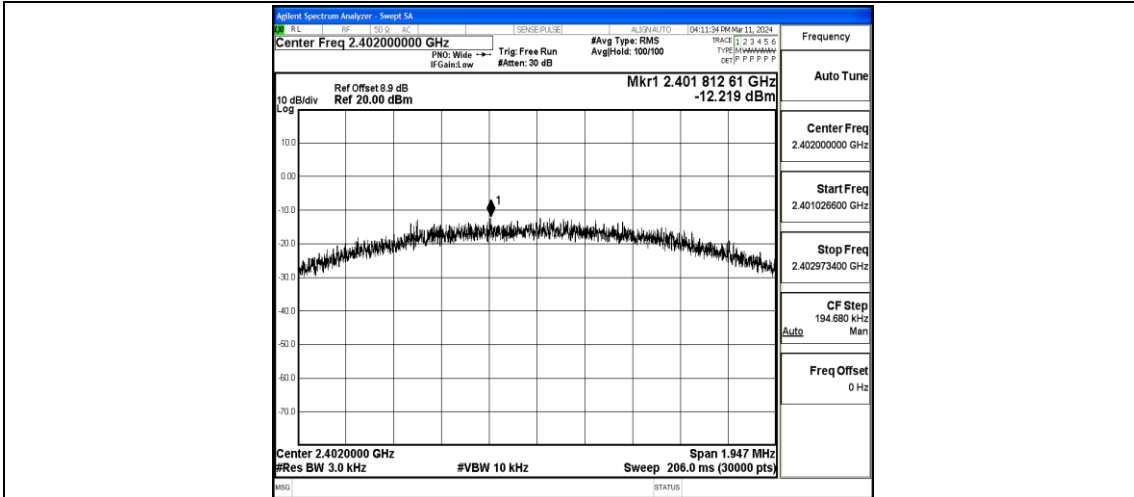
SRD-Ant1-2480-PASS

Appendix D: Maximum peak power spectral density

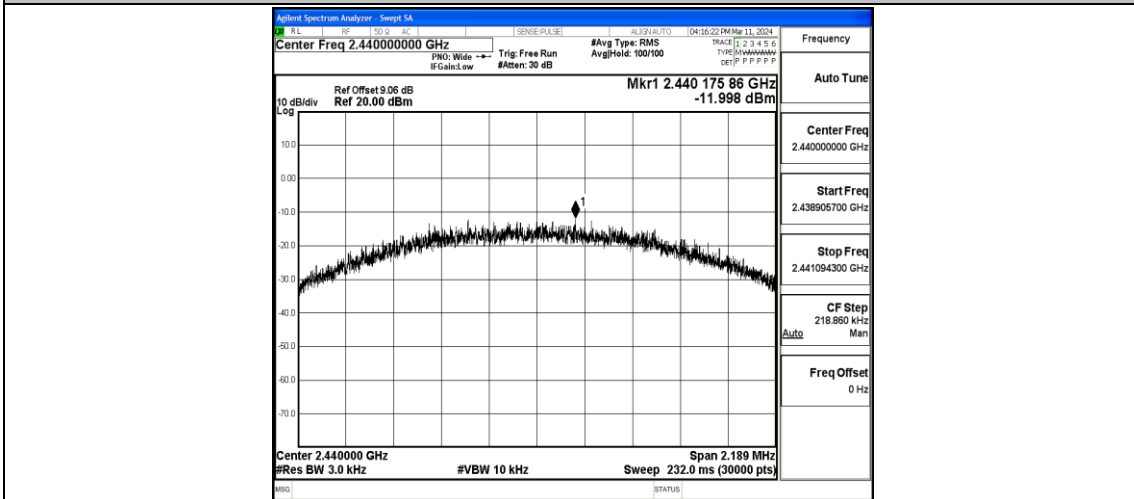
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-12.22	≤8.00	PASS
SRD	Ant1	2440	-12.00	≤8.00	PASS
SRD	Ant1	2480	-11.75	≤8.00	PASS

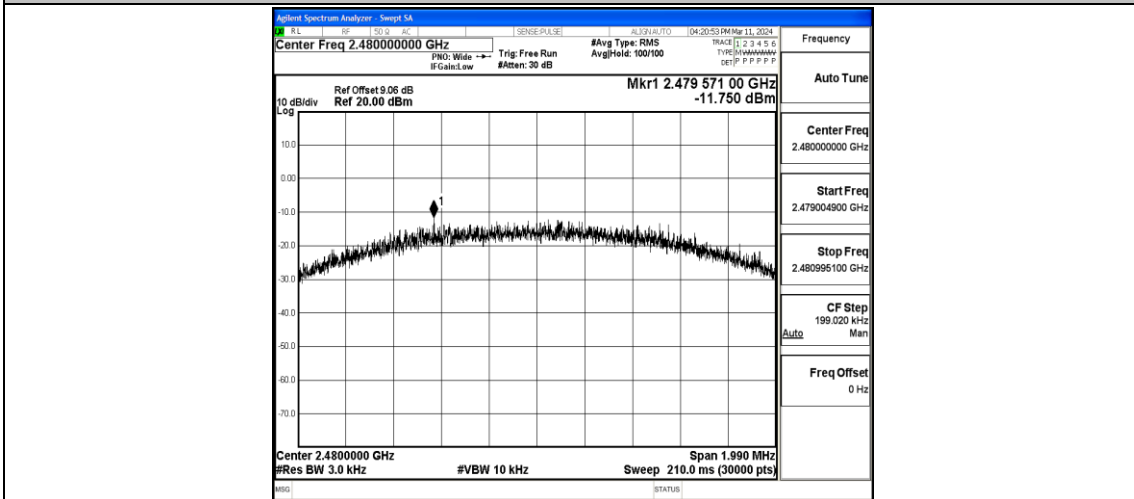
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



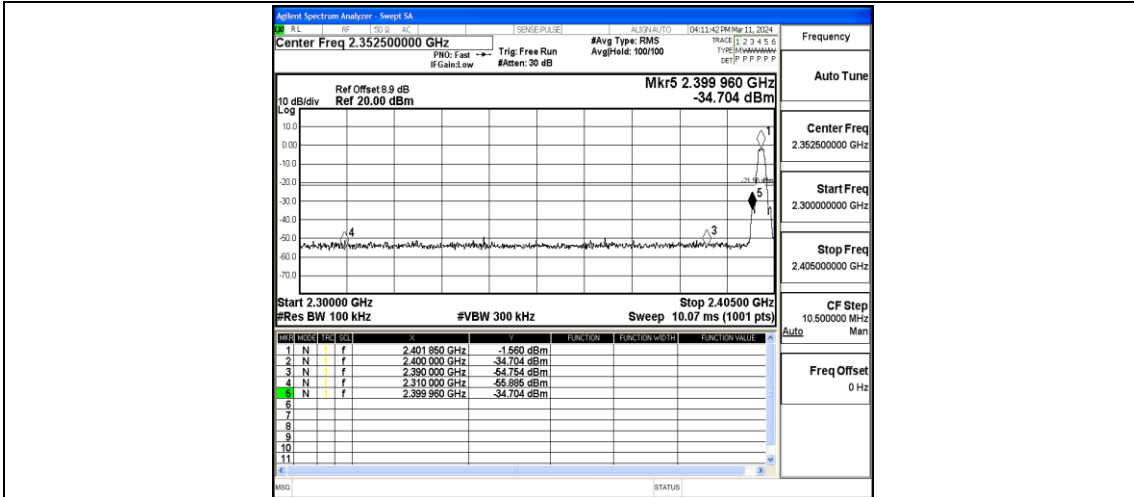
SRD-Ant1-2480-PASS

Appendix E: Band edge measurements

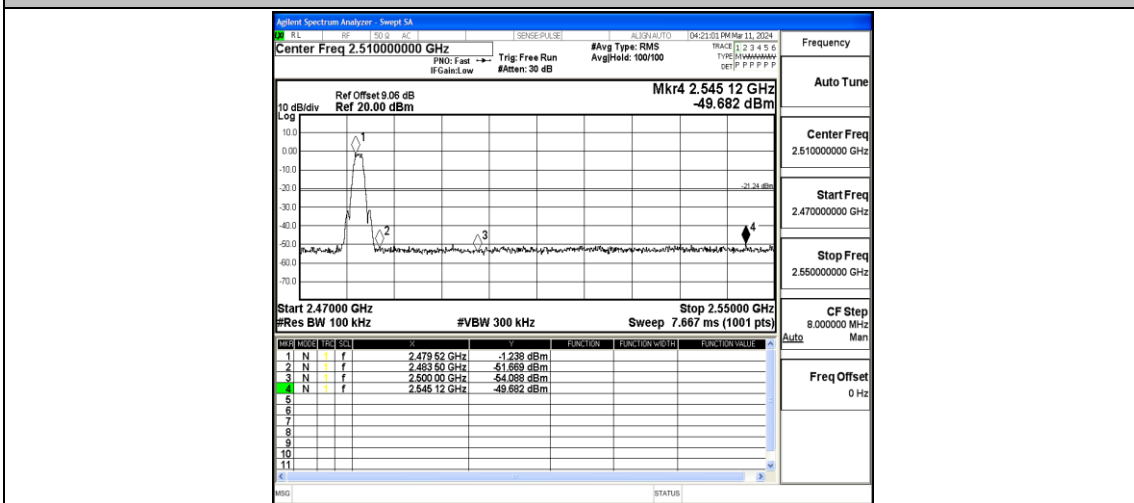
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-1.56	-34.7	≤-21.56	PASS
SRD	Ant1	High	2480	-1.24	-49.68	≤-21.24	PASS

Test Graphs



SRD-Ant1-2402-PASS



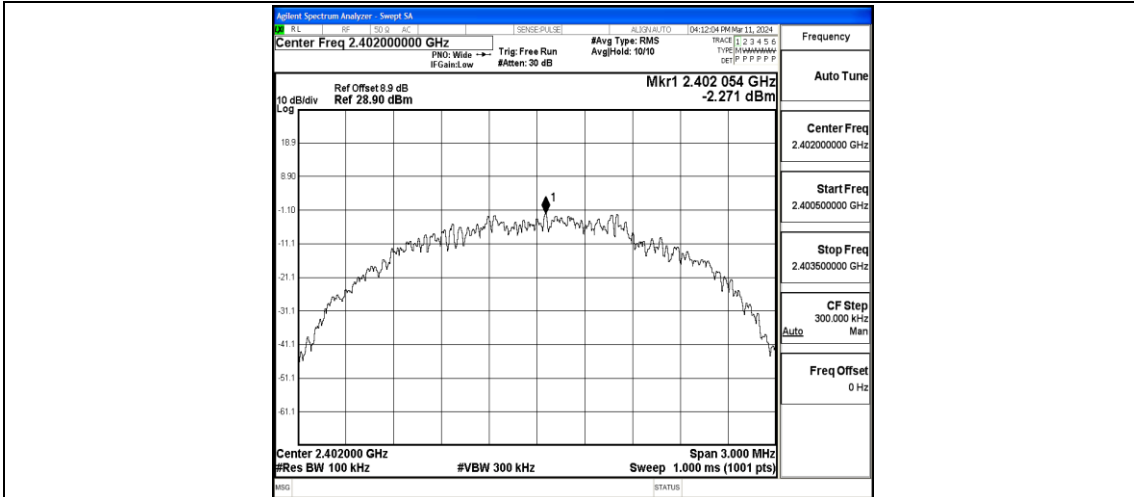
SRD-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

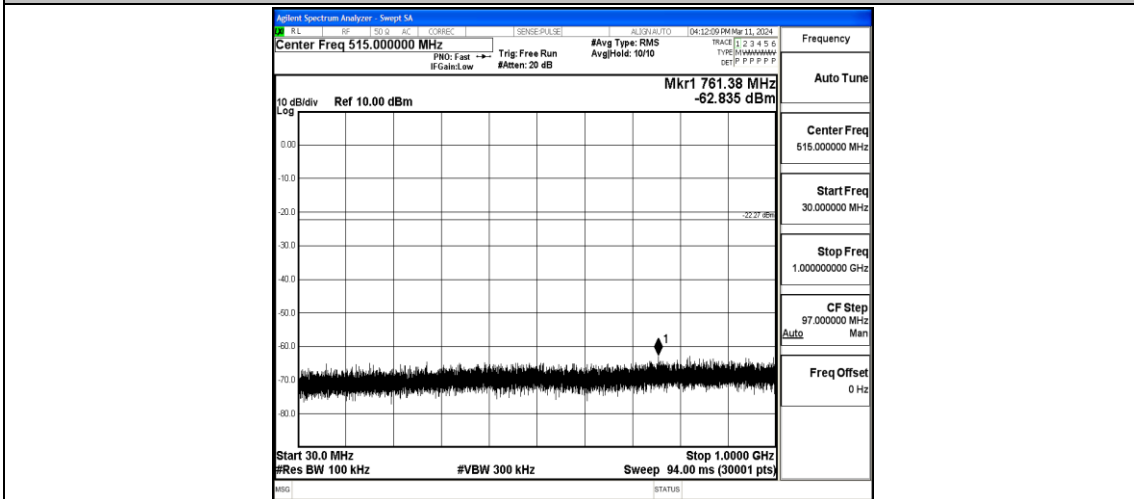
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-2.27	-2.27	---	PASS
SRD	Ant1	2402	30~1000	-2.27	-62.84	≤-22.27	PASS
SRD	Ant1	2402	1000~26500	-2.27	-44.38	≤-22.27	PASS
SRD	Ant1	2440	0~Reference	-2.24	-2.24	---	PASS
SRD	Ant1	2440	30~1000	-2.24	-62.75	≤-22.24	PASS
SRD	Ant1	2440	1000~26500	-2.24	-42.97	≤-22.24	PASS
SRD	Ant1	2480	0~Reference	-1.85	-1.85	---	PASS
SRD	Ant1	2480	30~1000	-1.85	-63.19	≤-21.85	PASS
SRD	Ant1	2480	1000~26500	-1.85	-45.49	≤-21.85	PASS

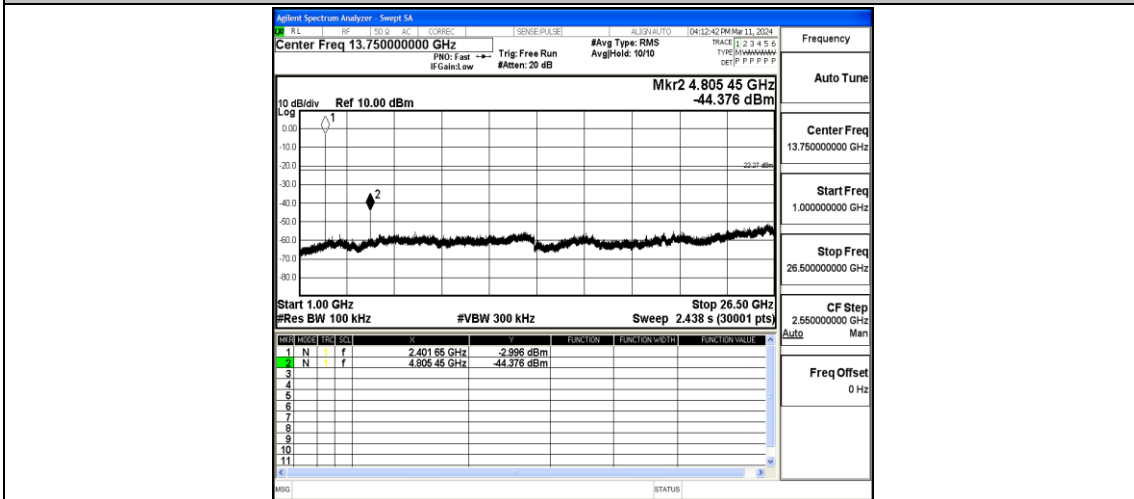
Test Graphs



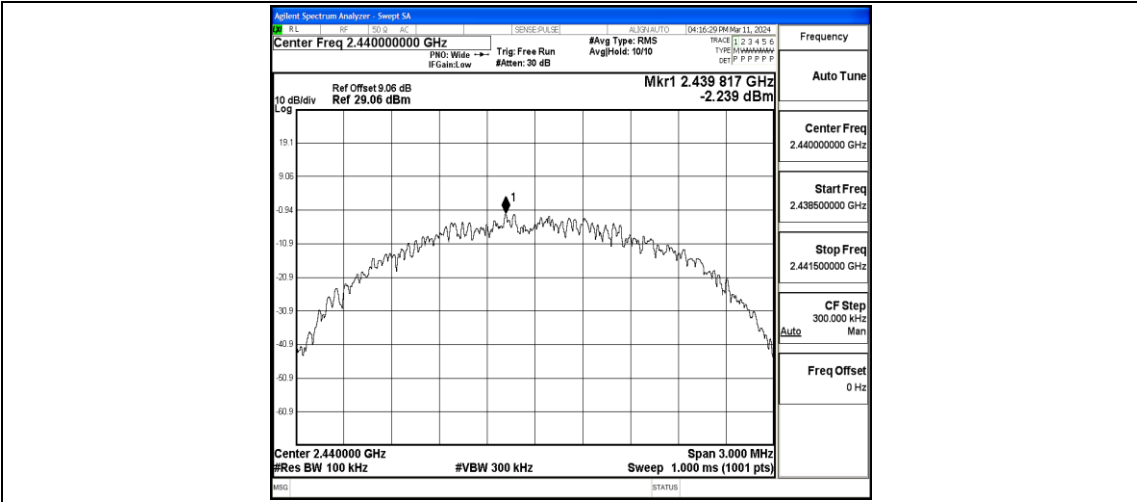
SRD-Ant1-2402-0~Reference-PASS



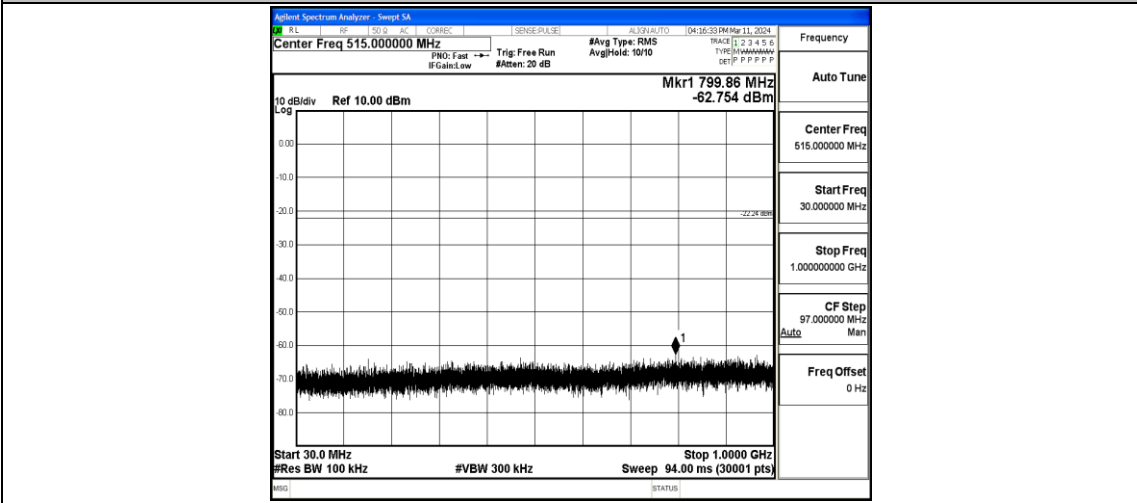
SRD-Ant1-2402-30~1000-PASS



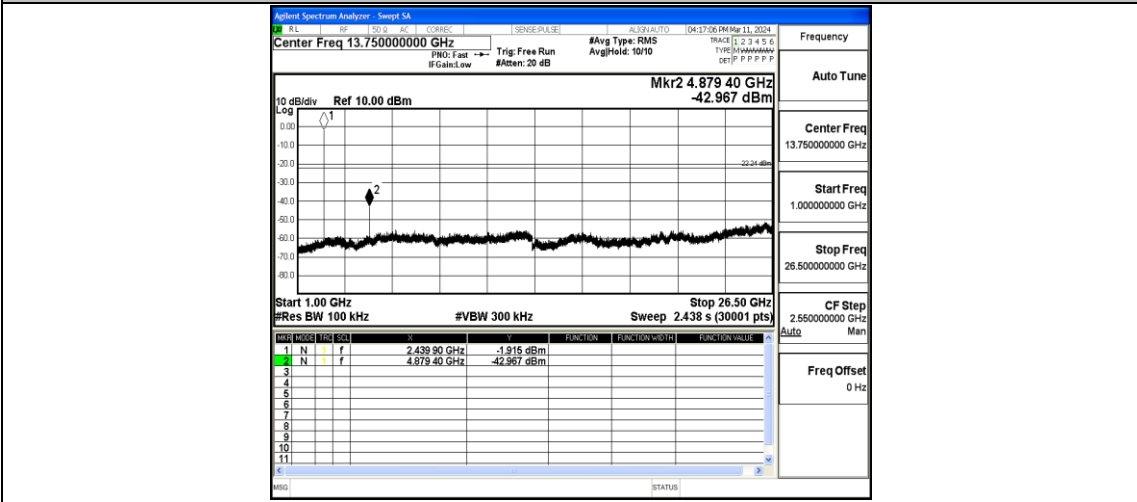
SRD-Ant1-2402-1000~26500-PASS



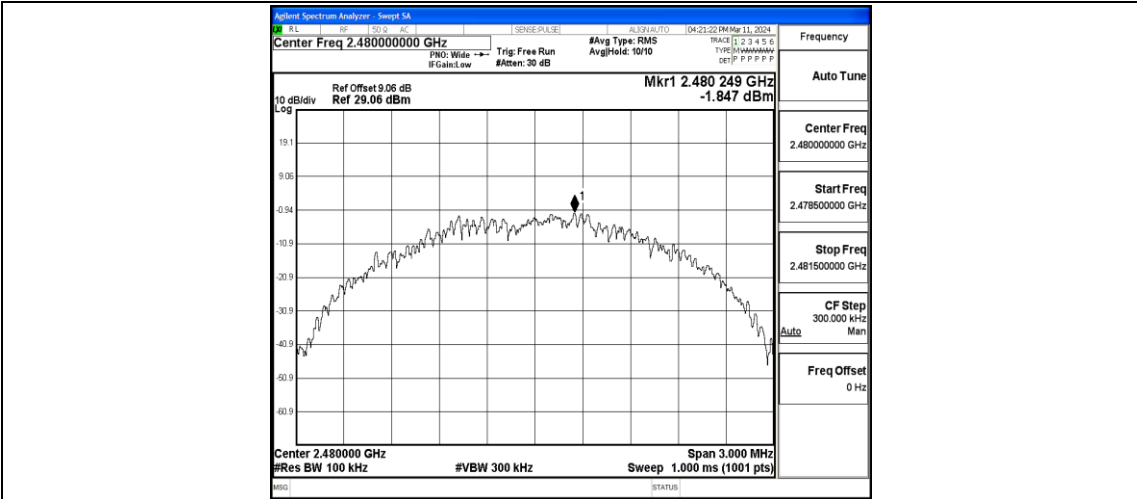
SRD-Ant1-2440-0~Reference-PASS



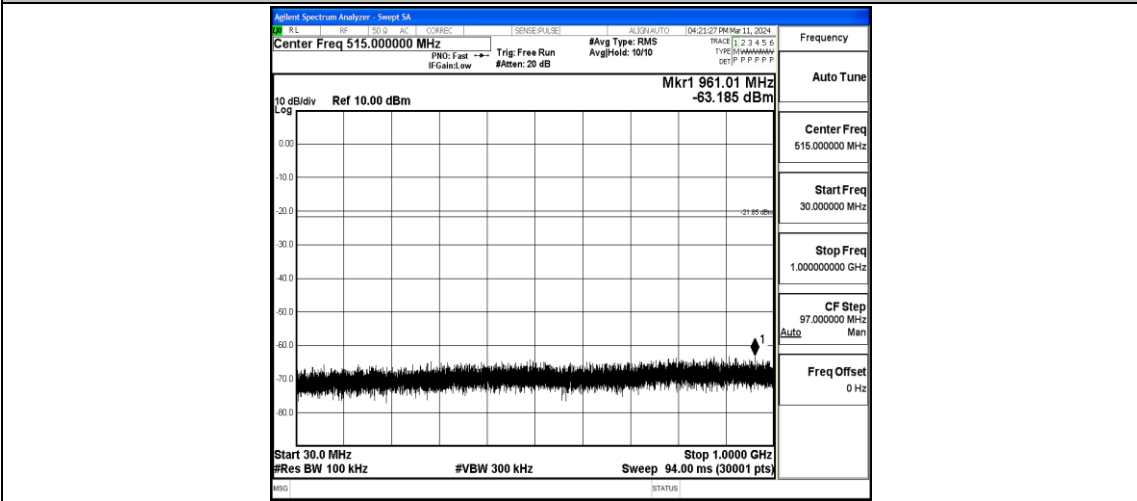
SRD-Ant1-2440-30~1000-PASS



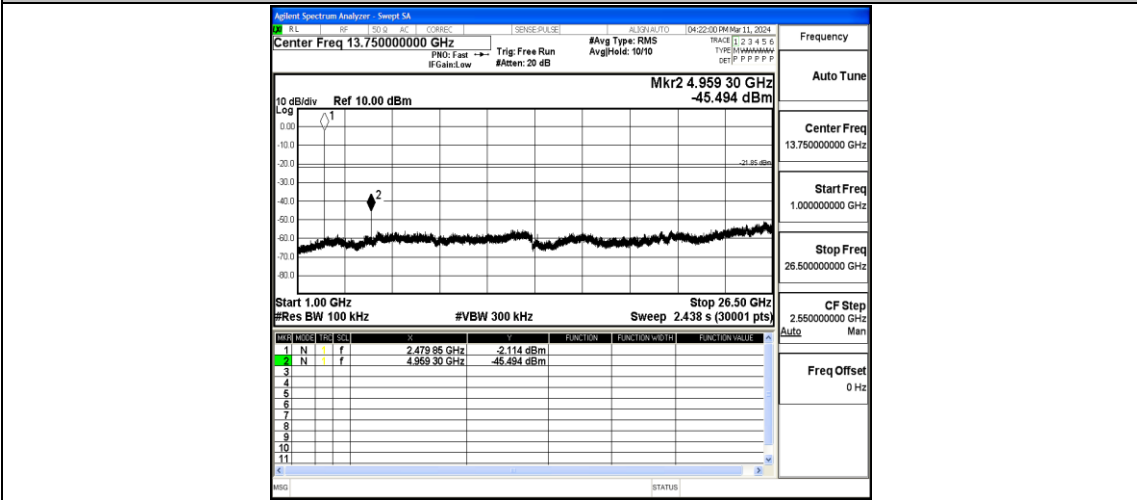
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



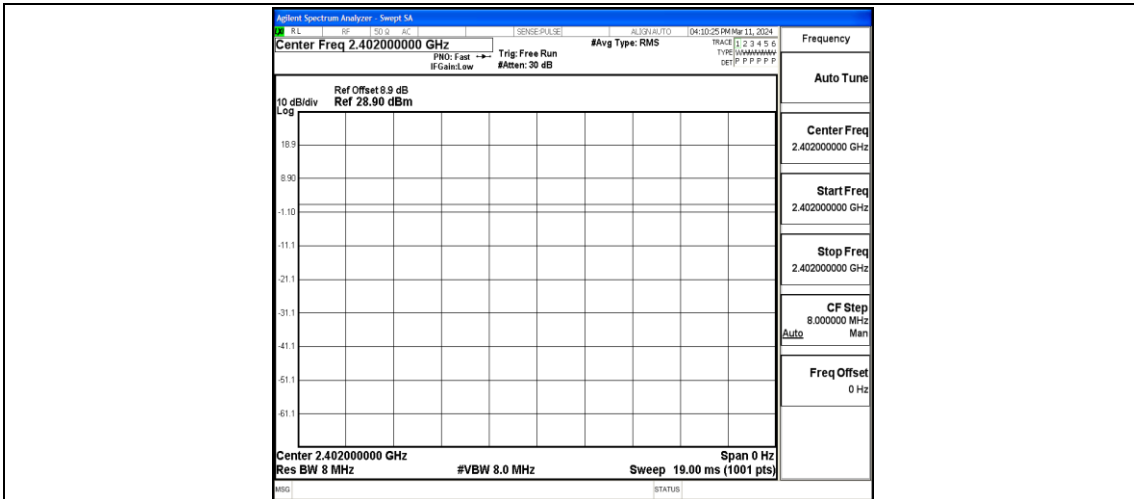
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

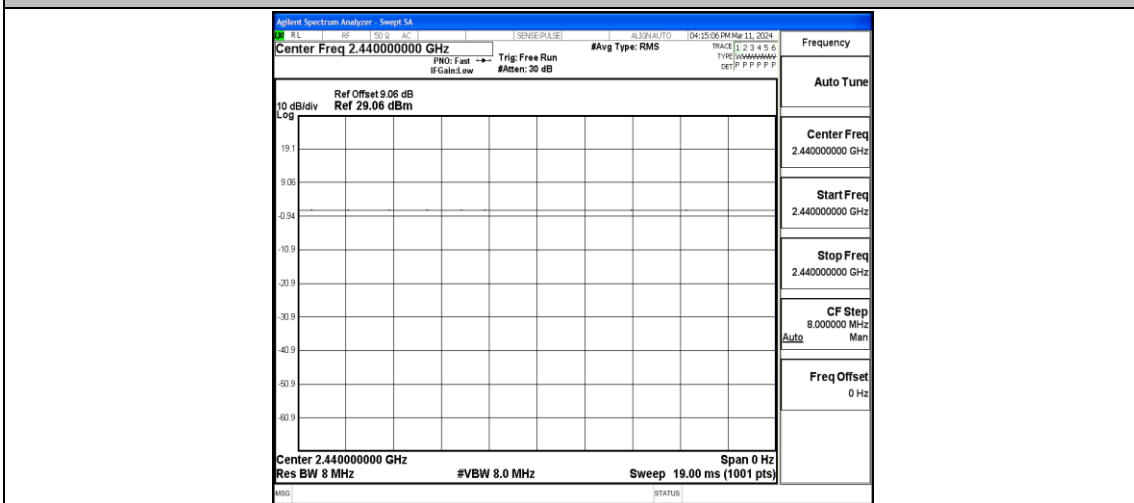
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
SRD	Ant1	2402	19.00	19.00	100
SRD	Ant1	2440	19.00	19.00	100
SRD	Ant1	2480	19.00	19.00	100

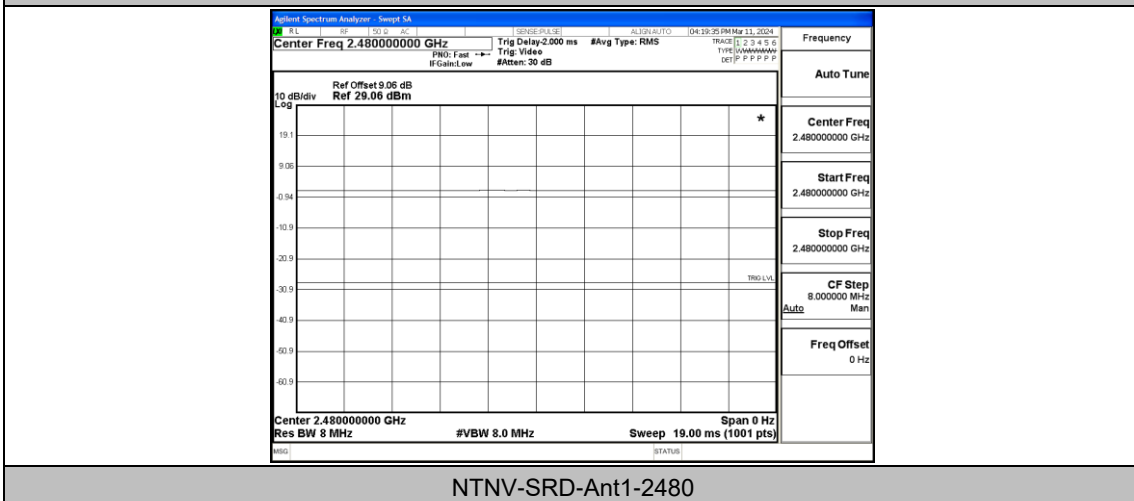
Test Graphs



NTVN-SRD-Ant1-2402



NTVN-SRD-Ant1-2440



NTVN-SRD-Ant1-2480

Appendix H: Emissions in Restricted Bands

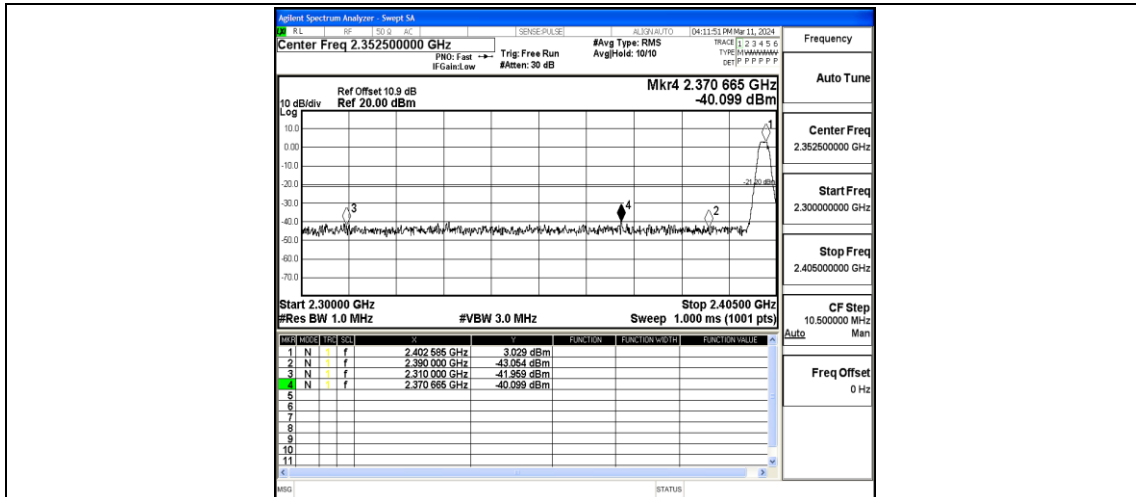
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
SRD	Ant1	Low	2402	Peak	2390.000	-43.05	≤-21.20	52.15	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-41.96	≤-21.20	53.24	≤74	PASS
SRD	Ant1	Low	2402	Peak	2370.665	-40.1	≤-21.20	55.10	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-50.19	≤-41.20	45.01	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-51.12	≤-41.20	44.08	≤54	PASS
SRD	Ant1	Low	2402	AV	2372.975	-49.44	≤-41.20	45.76	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-44.47	≤-21.20	50.73	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-42.57	≤-21.20	52.63	≤74	PASS
SRD	Ant1	High	2480	Peak	2490.080	-40.37	≤-21.20	54.83	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-48.97	≤-41.20	46.23	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-49.89	≤-41.20	45.31	≤54	PASS
SRD	Ant1	High	2480	AV	2483.520	-48.97	≤-41.20	46.23	≤54	PASS

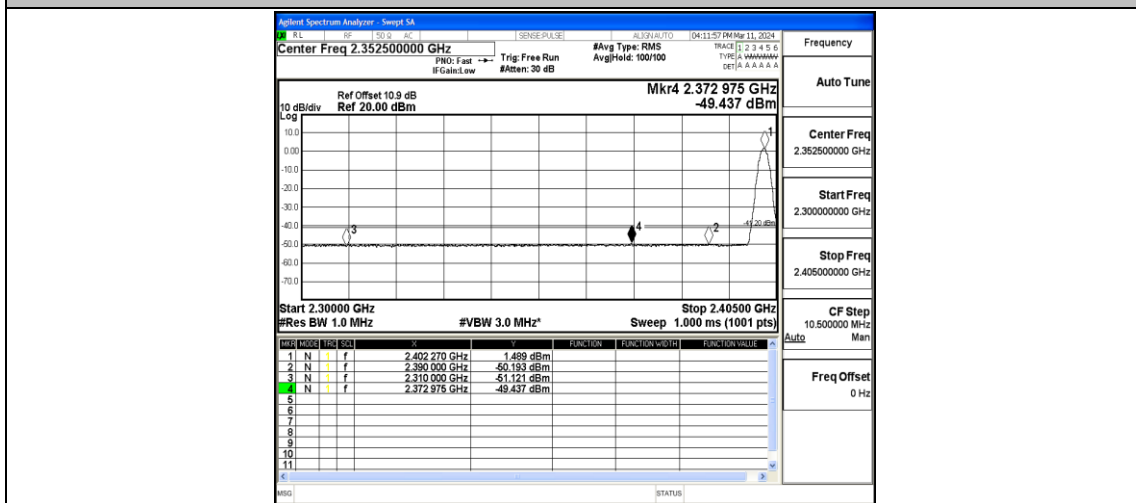
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

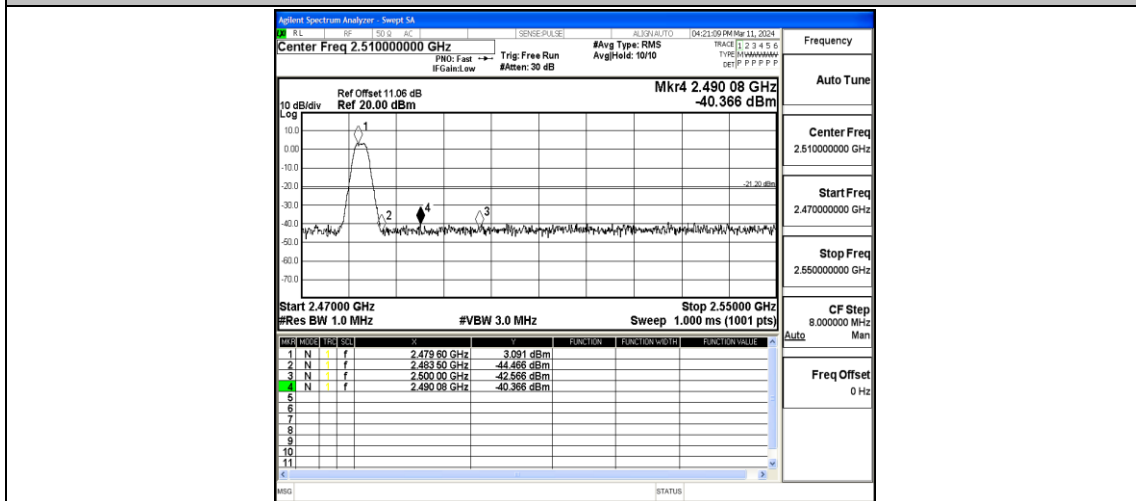
Test Graphs



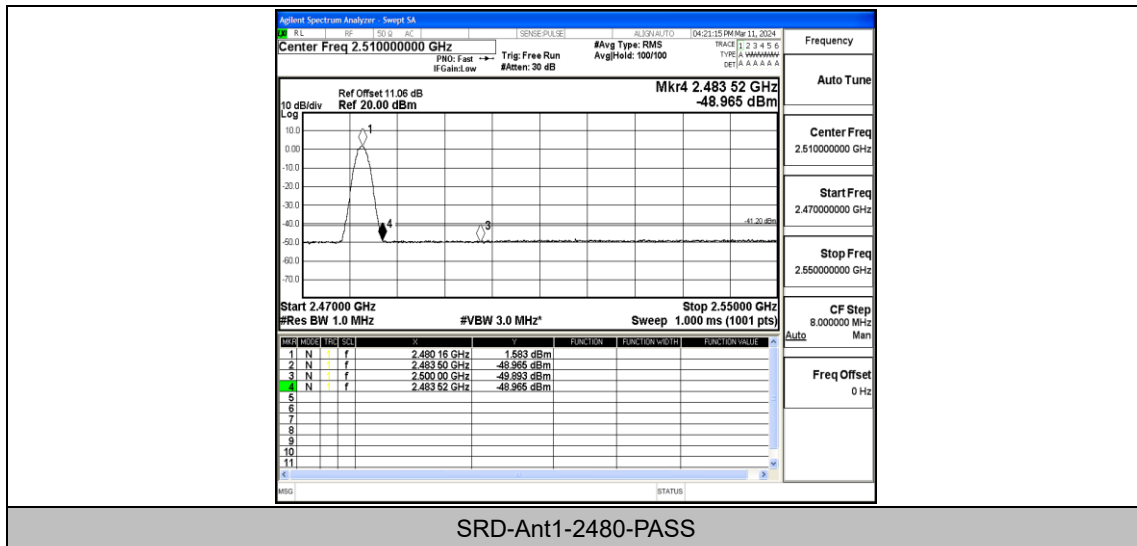
SRD-Ant1-2402-PASS



SRD-Ant1-2402-PASS



SRD-Ant1-2480-PASS



SRD-Ant1-2480-PASS