

## Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: B1 Pro

FCC ID: 2BGKB-B1PRO

### Environmental Conditions

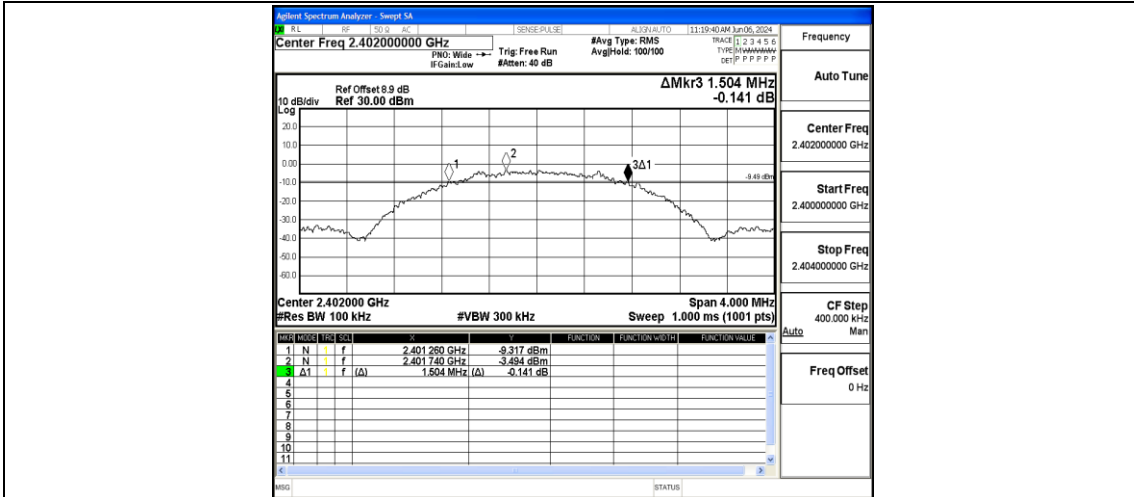
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: DTS Bandwidth

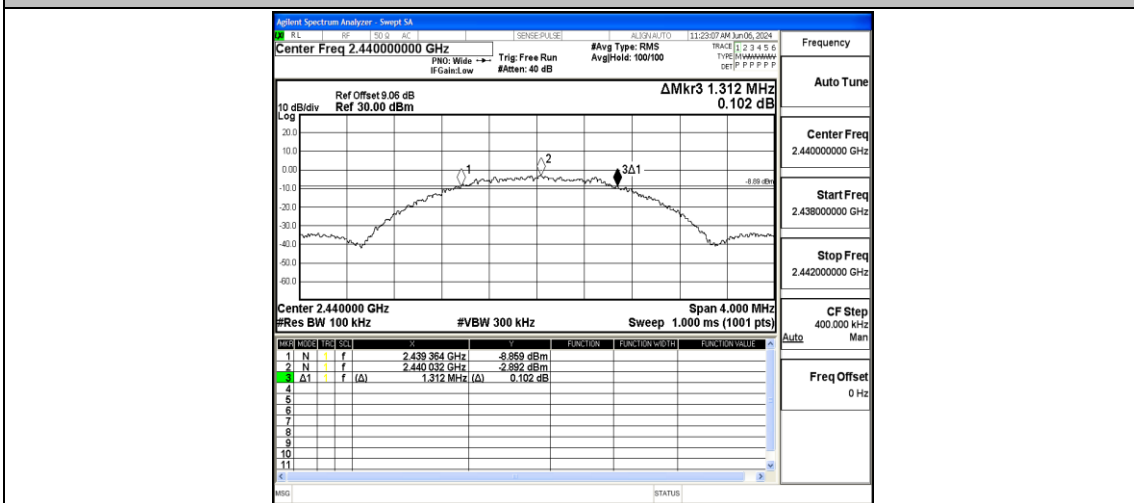
### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.504	2401.260	2402.764	0.5	PASS
SRD	Ant1	2440	1.312	2439.364	2440.676	0.5	PASS
SRD	Ant1	2480	1.344	2479.368	2480.712	0.5	PASS

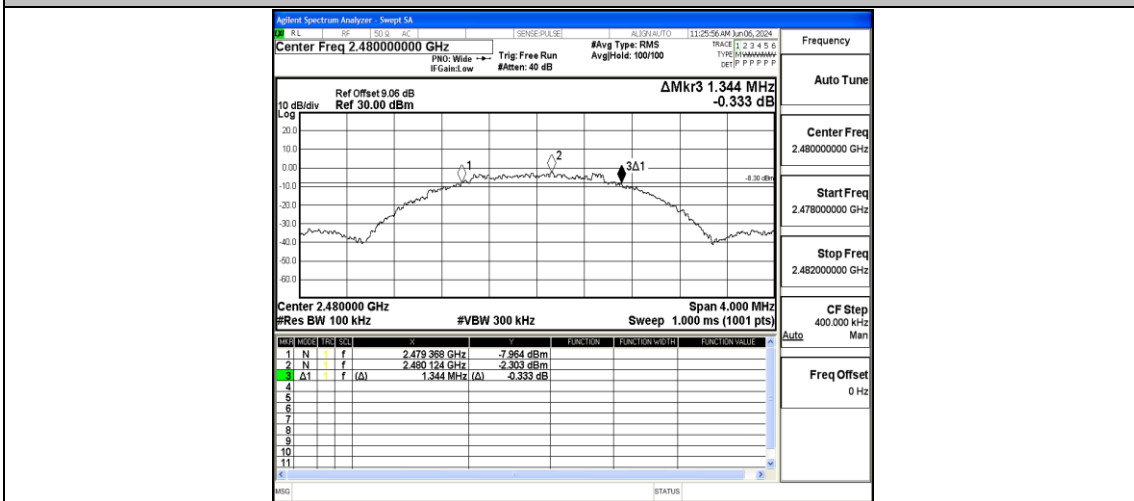
### Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



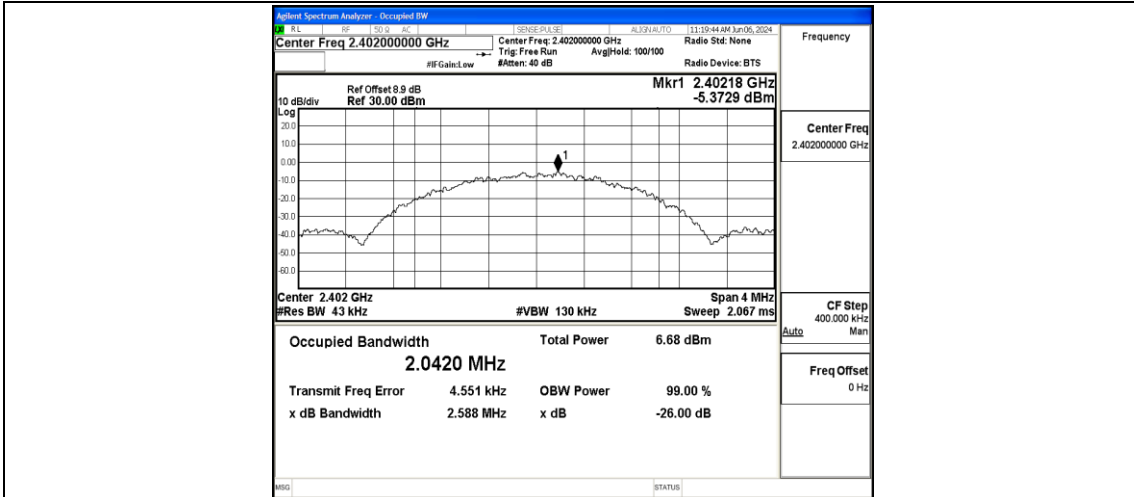
SRD-Ant1-2480-PASS

## Appendix B: Occupied Channel Bandwidth

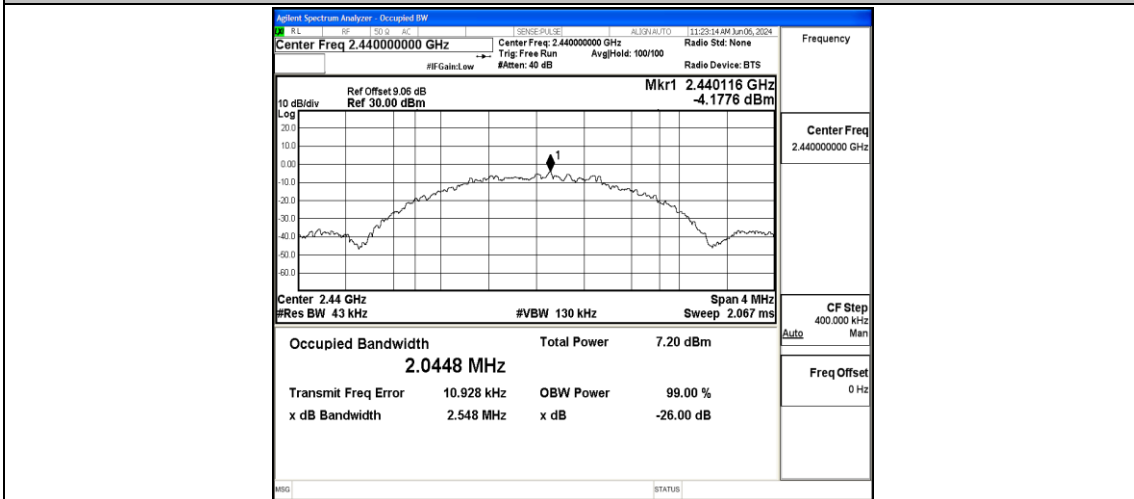
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0420	2400.9836	2403.0256	---	---
SRD	Ant1	2440	2.0448	2438.9885	2441.0333	---	---
SRD	Ant1	2480	2.0806	2478.9770	2481.0576	---	---

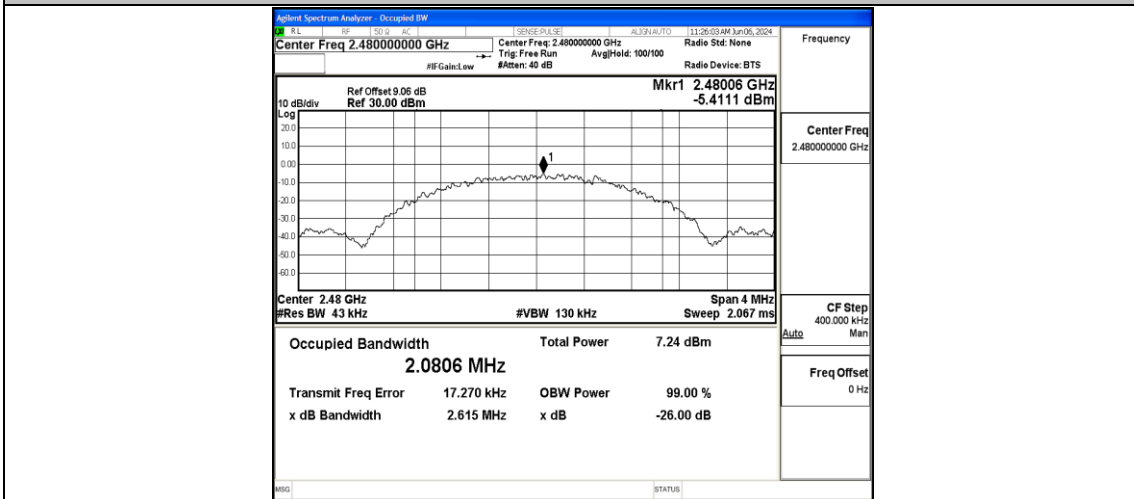
### Test Graphs



SRD-Ant1-2402



SRD-Ant1-2440



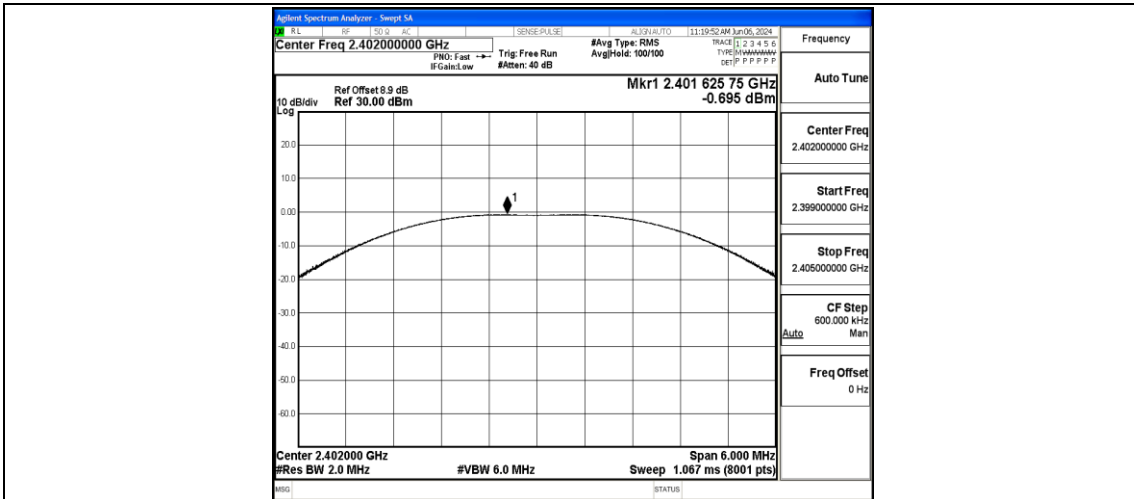
SRD-Ant1-2480

## Appendix C: Maximum peak conducted output power

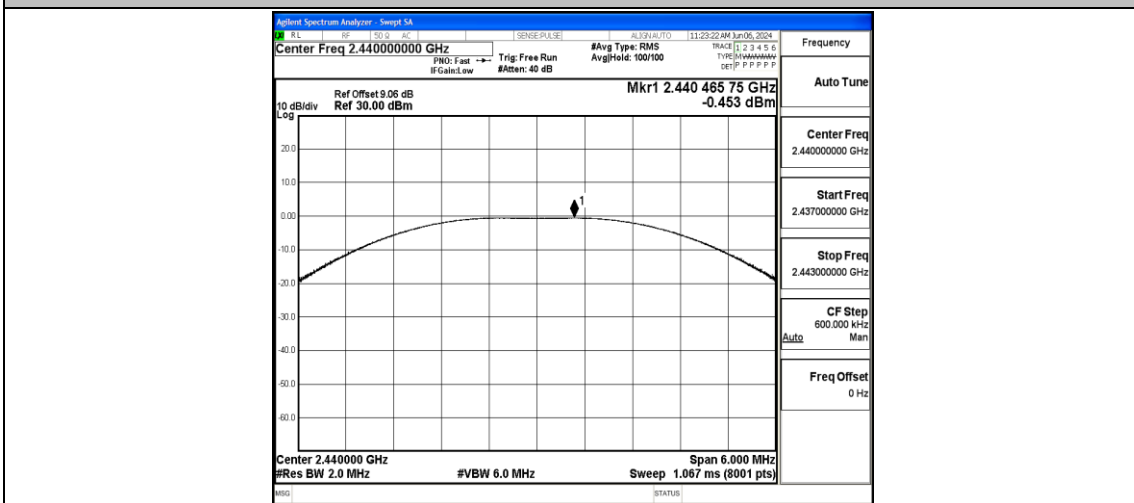
### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	-0.70	≤30	PASS
SRD	Ant1	2440	-0.45	≤30	PASS
SRD	Ant1	2480	-0.08	≤30	PASS

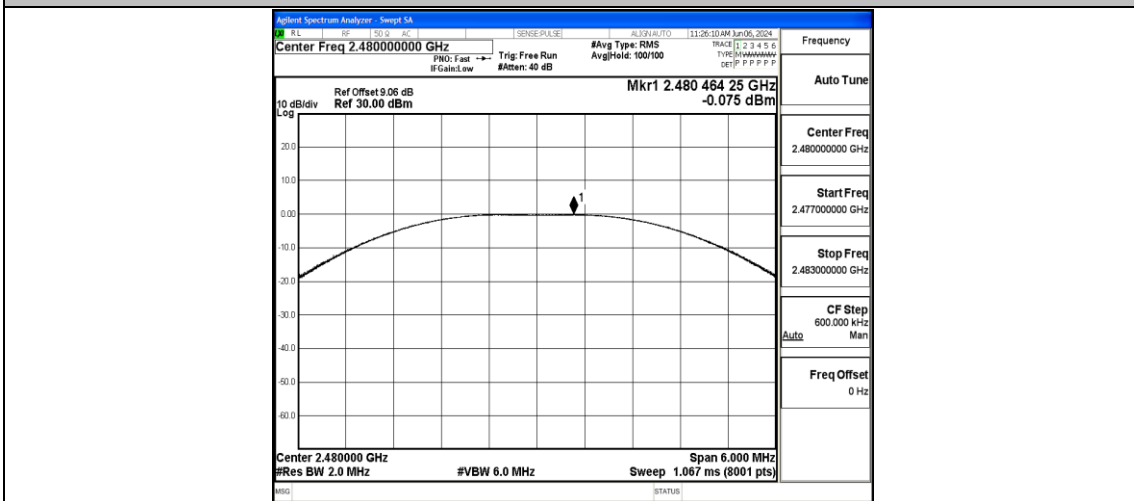
### Test Graphs Peak



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



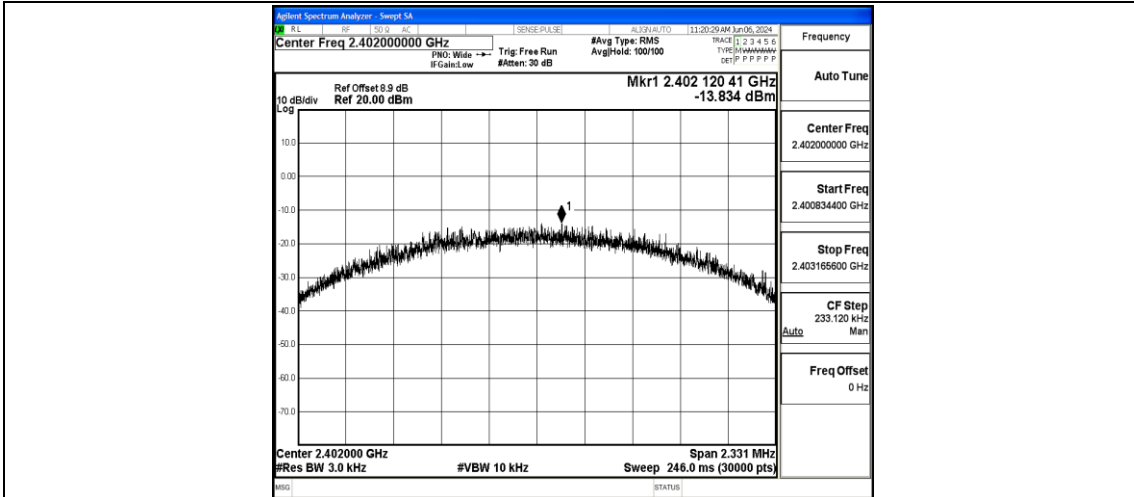
SRD-Ant1-2480-PASS

## Appendix D: Maximum peak power spectral density

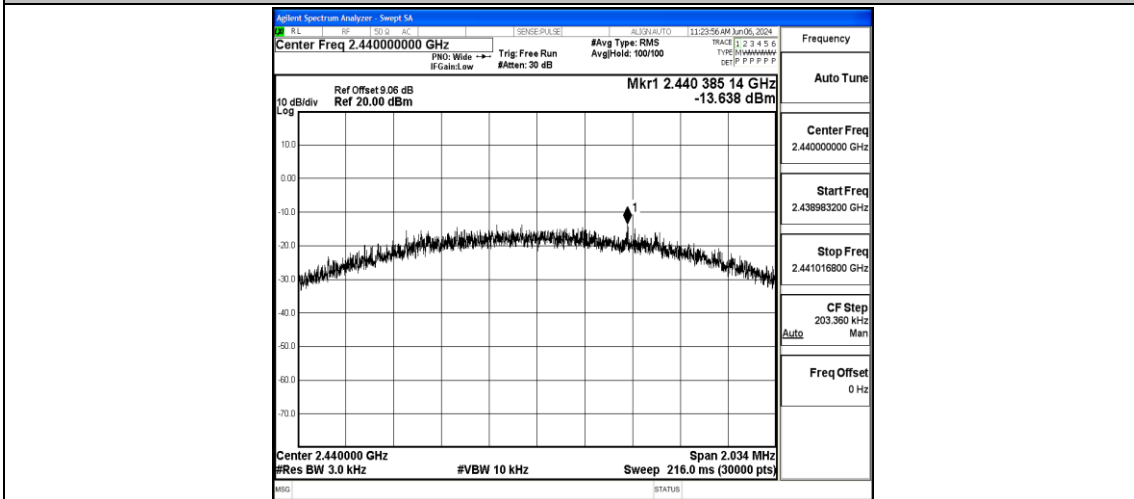
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-13.83	≤8.00	PASS
SRD	Ant1	2440	-13.64	≤8.00	PASS
SRD	Ant1	2480	-12.27	≤8.00	PASS

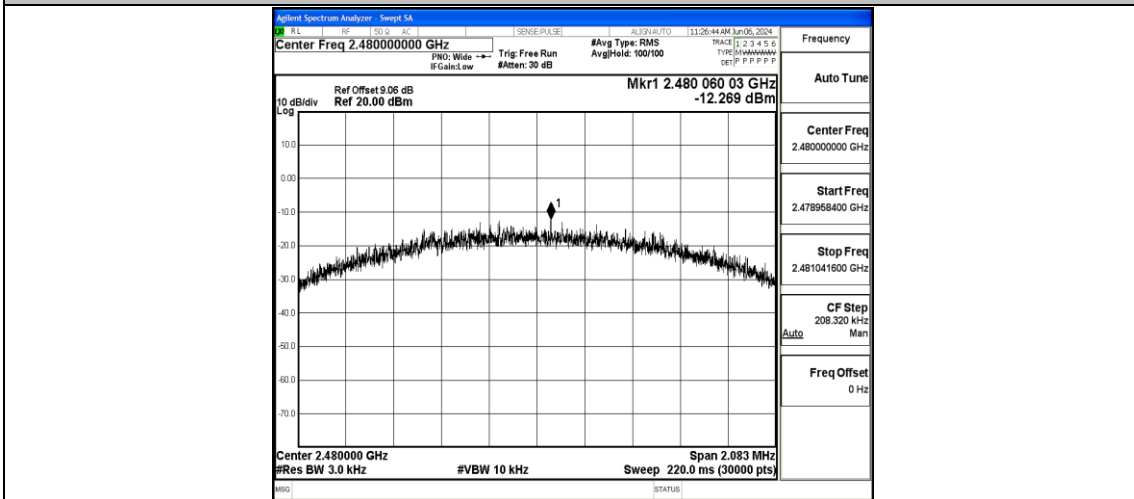
### Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



SRD-Ant1-2480-PASS

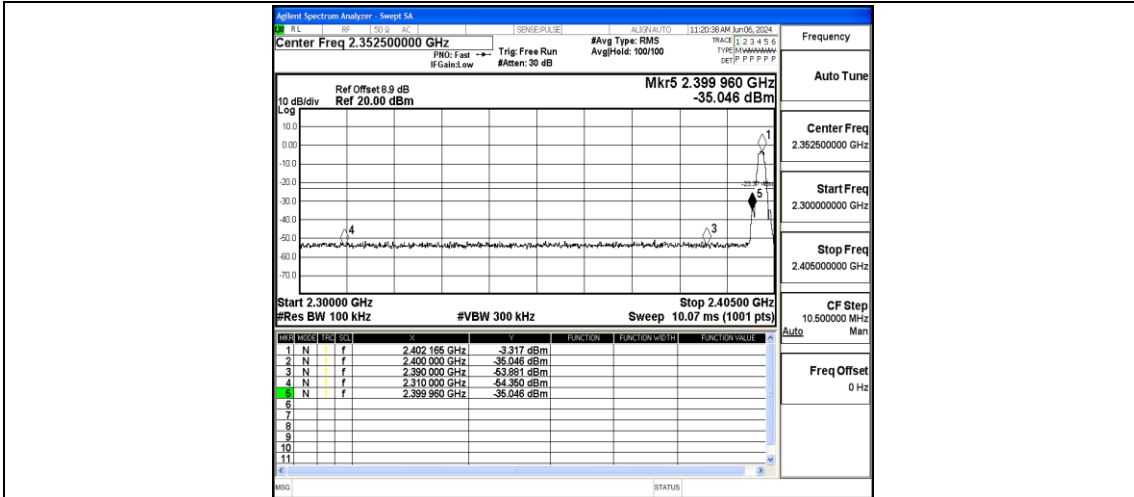


## Appendix E: Band edge measurements

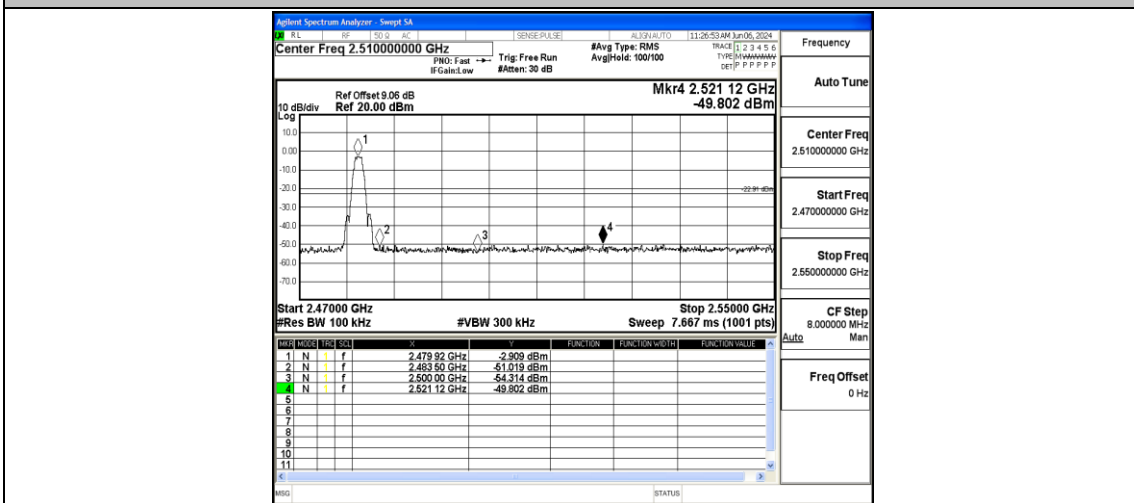
### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-3.32	-35.05	≤-23.32	PASS
SRD	Ant1	High	2480	-2.91	-49.8	≤-22.91	PASS

### Test Graphs



SRD-Ant1-2402-PASS



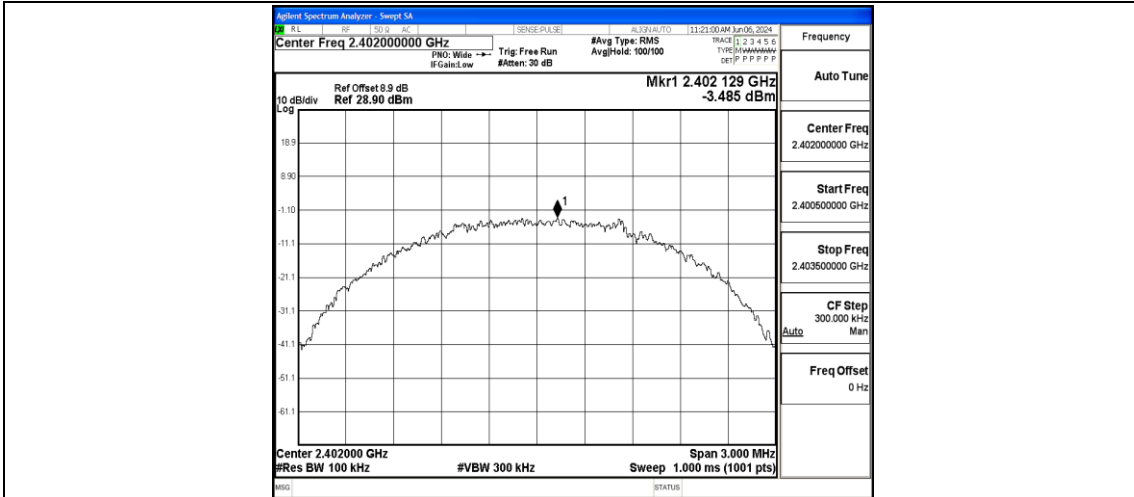
SRD-Ant1-2480-PASS

## Appendix F: Conducted Spurious Emission

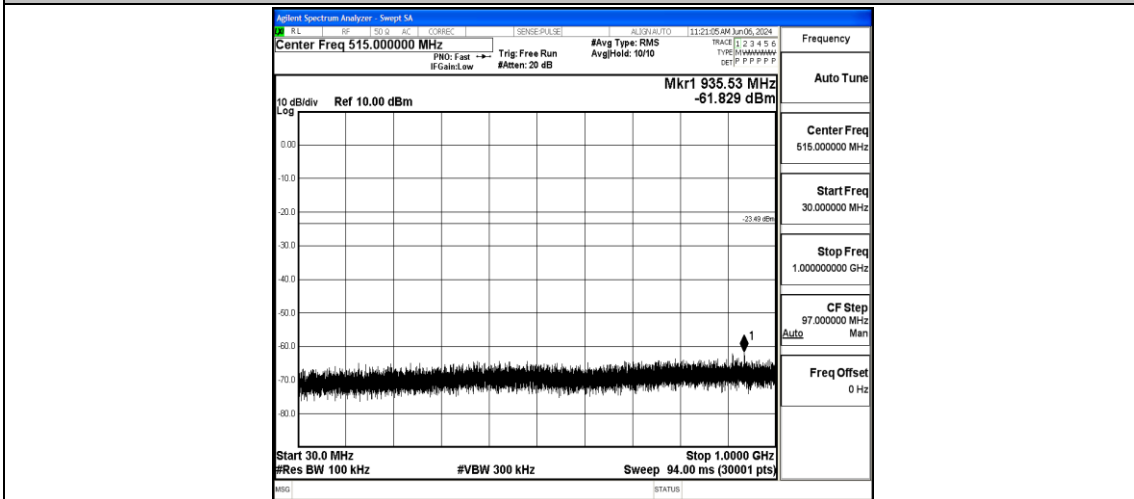
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-3.49	-3.49	---	PASS
SRD	Ant1	2402	30~1000	-3.49	-61.83	≤-23.49	PASS
SRD	Ant1	2402	1000~26500	-3.49	-49.16	≤-23.49	PASS
SRD	Ant1	2440	0~Reference	-2.47	-2.47	---	PASS
SRD	Ant1	2440	30~1000	-2.47	-62.71	≤-22.47	PASS
SRD	Ant1	2440	1000~26500	-2.47	-50.37	≤-22.47	PASS
SRD	Ant1	2480	0~Reference	-2.81	-2.81	---	PASS
SRD	Ant1	2480	30~1000	-2.81	-62.81	≤-22.81	PASS
SRD	Ant1	2480	1000~26500	-2.81	-50.17	≤-22.81	PASS

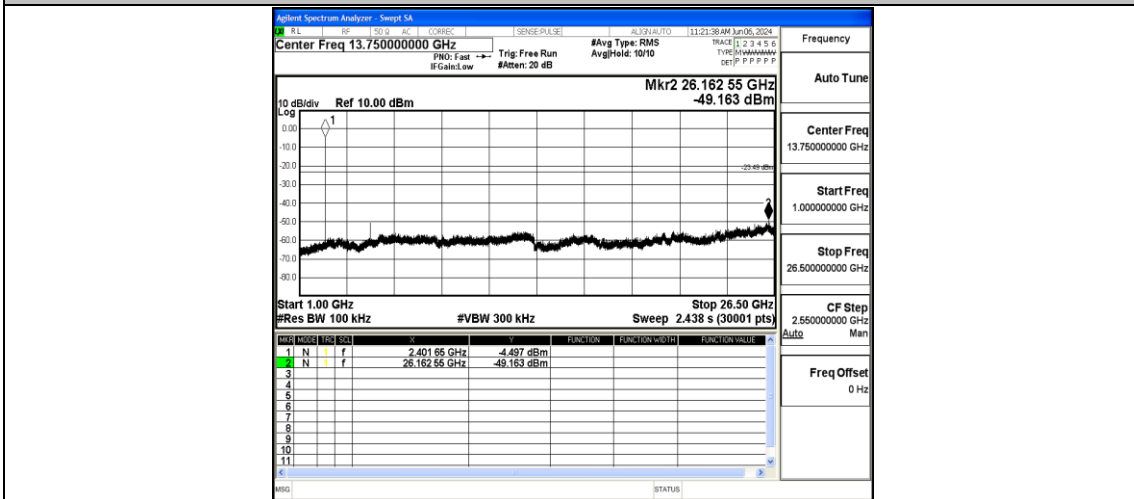
### Test Graphs



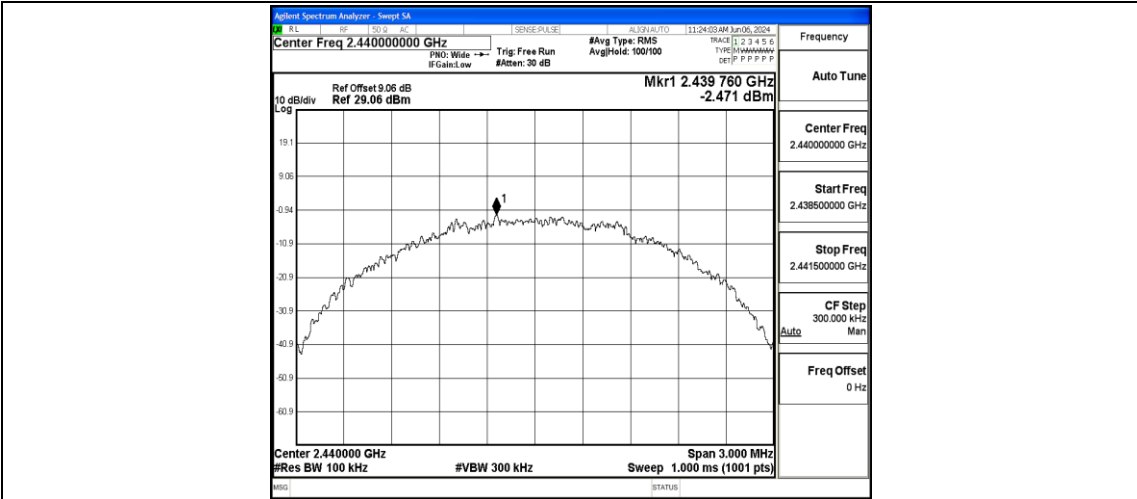
SRD-Ant1-2402-0~Reference-PASS



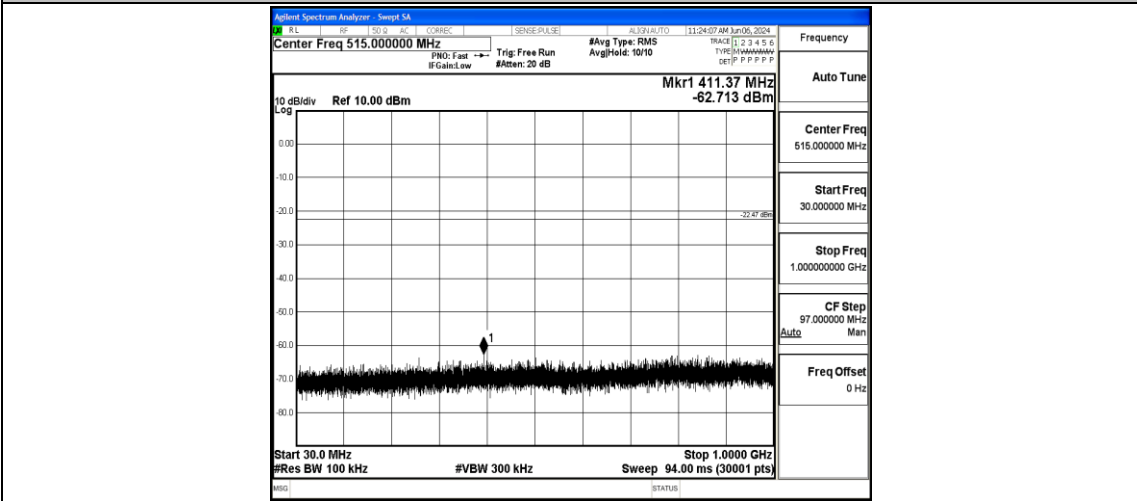
SRD-Ant1-2402-30~1000-PASS



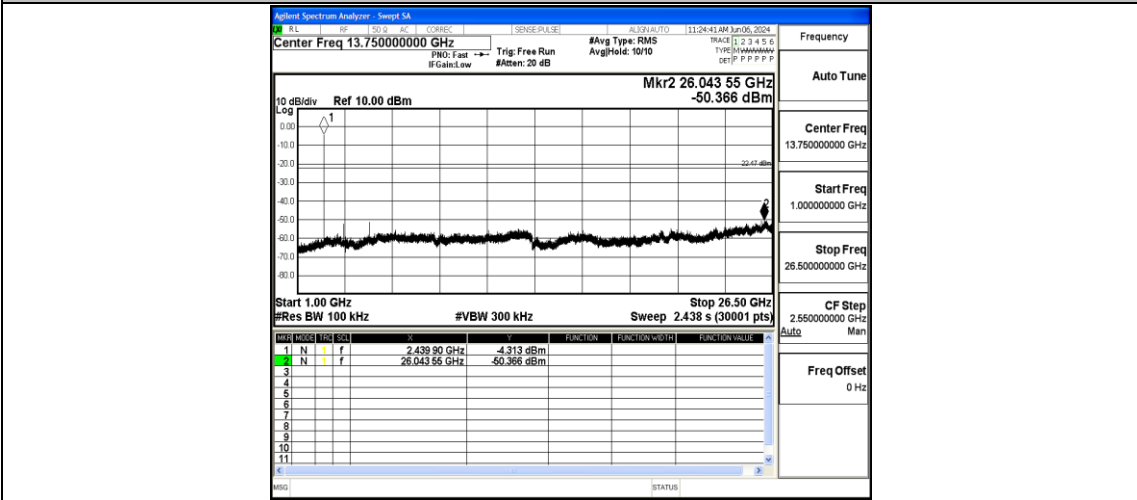
SRD-Ant1-2402-1000~26500-PASS



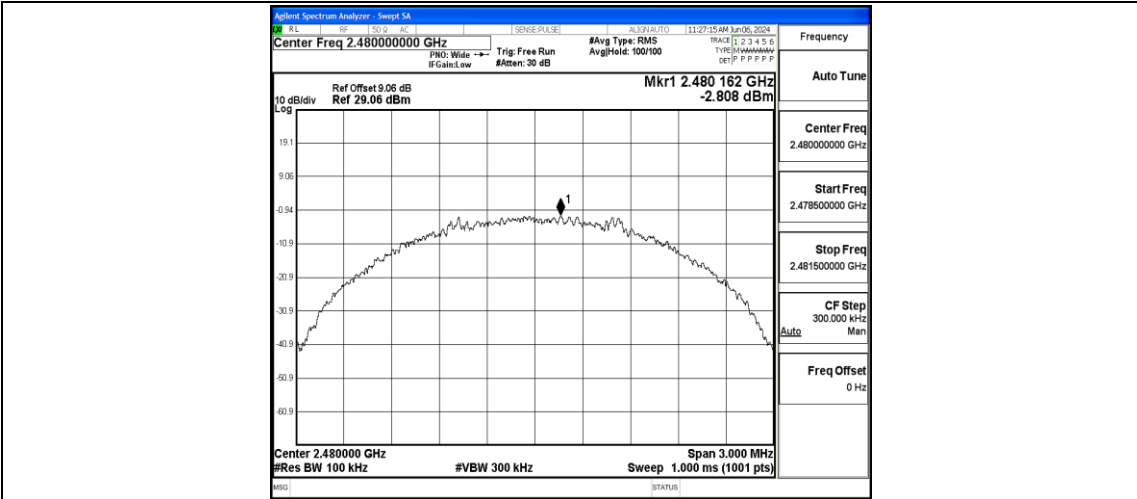
SRD-Ant1-2440-0~Reference-PASS



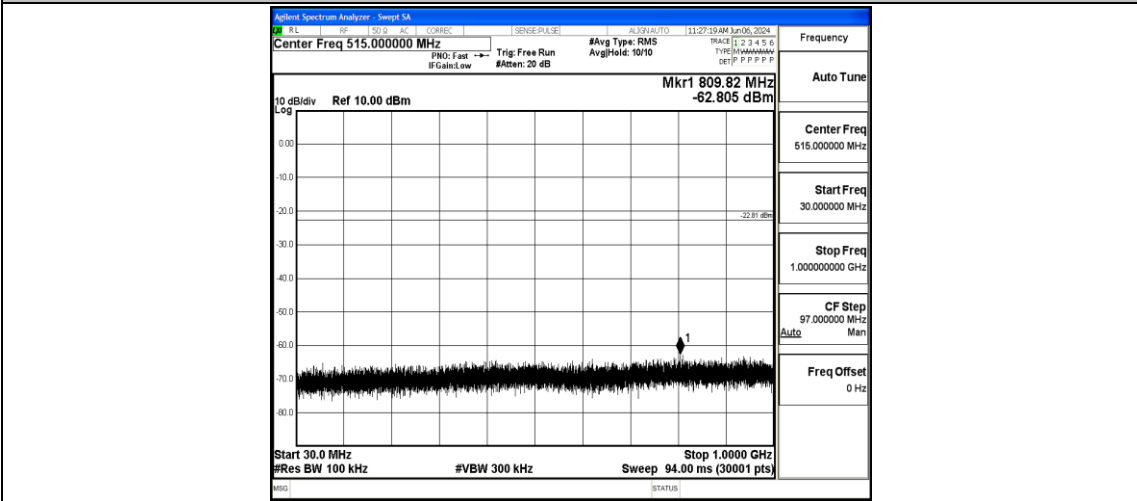
SRD-Ant1-2440-30~1000-PASS



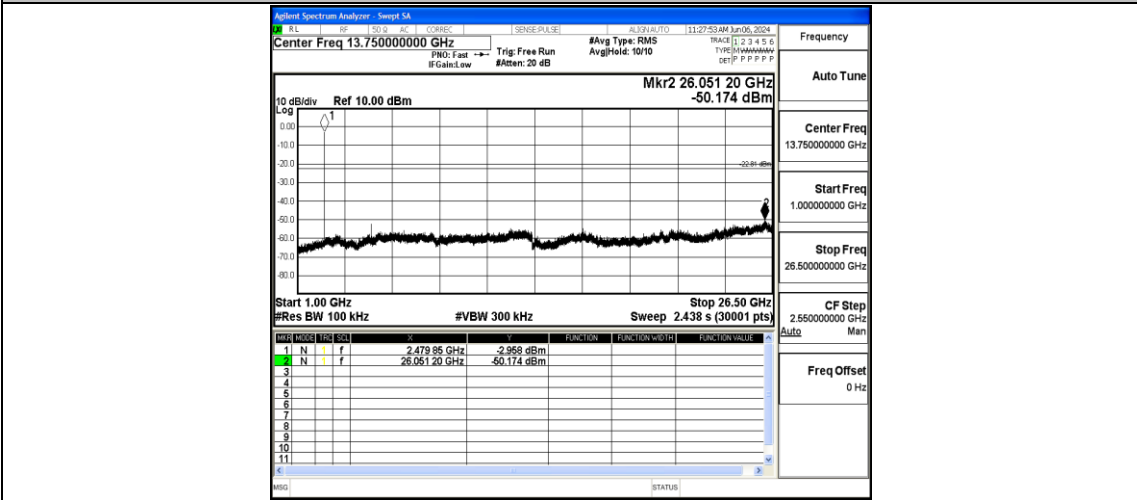
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



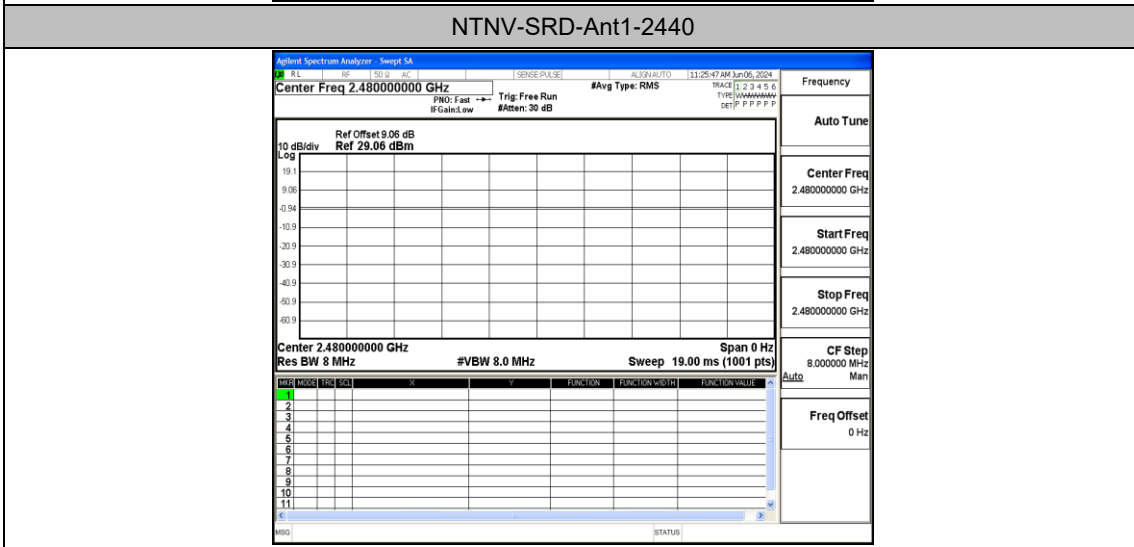
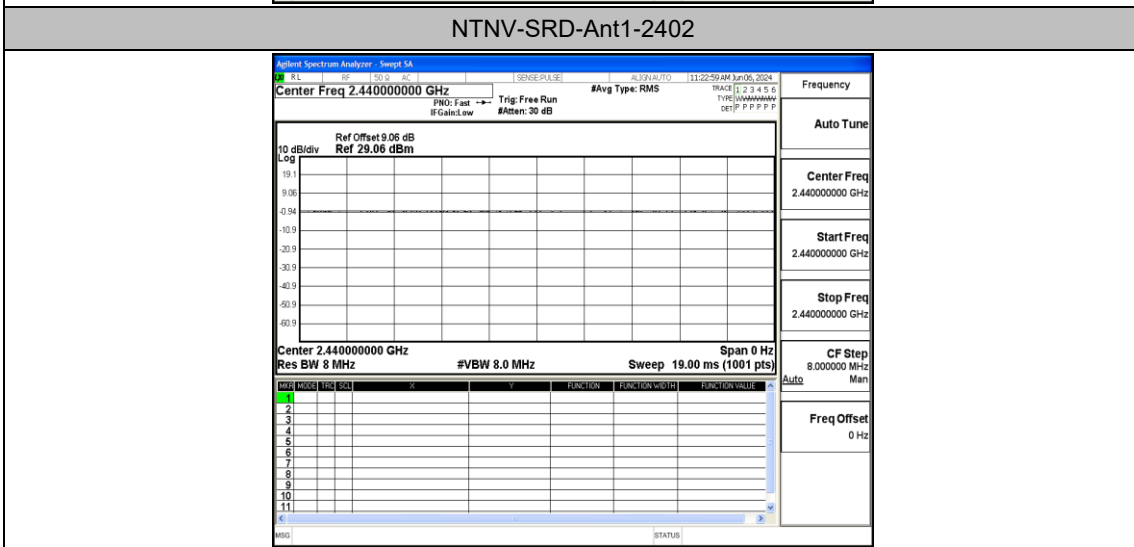
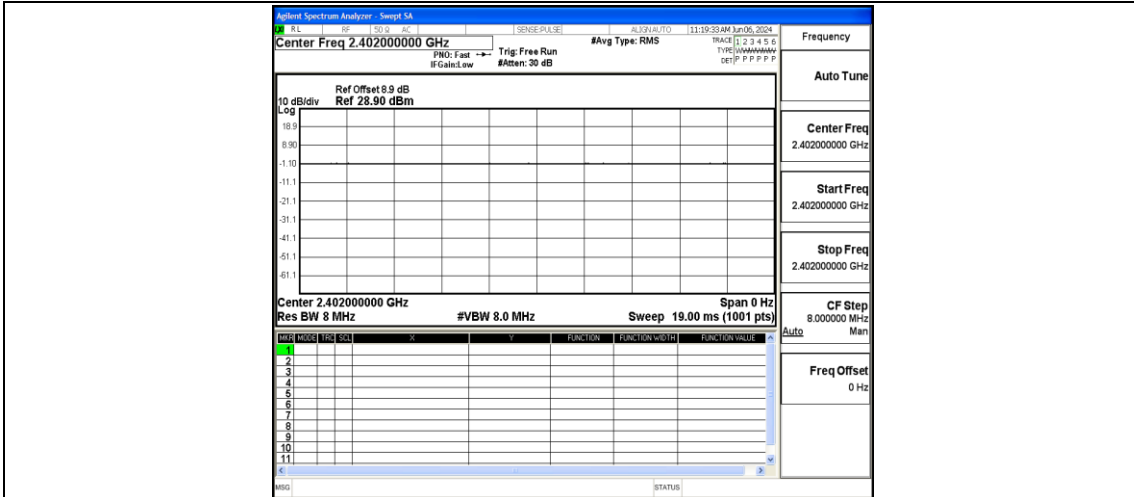
SRD-Ant1-2480-1000~26500-PASS

## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	2402	19.00	19.00	100.00	0.00
SRD	Ant1	2440	19.00	19.00	100.00	0.00
SRD	Ant1	2480	19.00	19.00	100.00	0.00

### Test Graphs





## Appendix H: Emissions in Restricted Bands

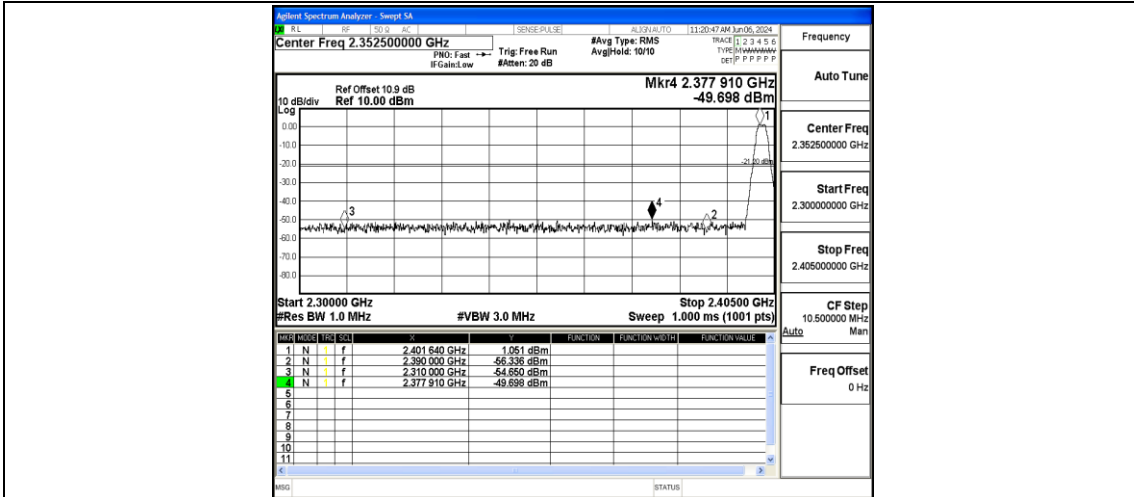
### Test Result

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	-56.34	≤-21.20	38.86	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-54.65	≤-21.20	40.55	≤74	PASS
SRD	Ant1	Low	2402	Peak	2377.910	-49.7	≤-21.20	45.50	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-60.24	≤-41.20	34.96	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-60.07	≤-41.20	35.13	≤54	PASS
SRD	Ant1	Low	2402	AV	2384.630	-59.31	≤-41.20	35.89	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-48.83	≤-21.20	46.37	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-53.53	≤-21.20	41.67	≤74	PASS
SRD	Ant1	High	2480	Peak	2483.920	-48.28	≤-21.20	46.92	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-54.64	≤-41.20	40.56	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-59.11	≤-41.20	36.09	≤54	PASS
SRD	Ant1	High	2480	AV	2483.520	-54.64	≤-41.20	40.56	≤54	PASS

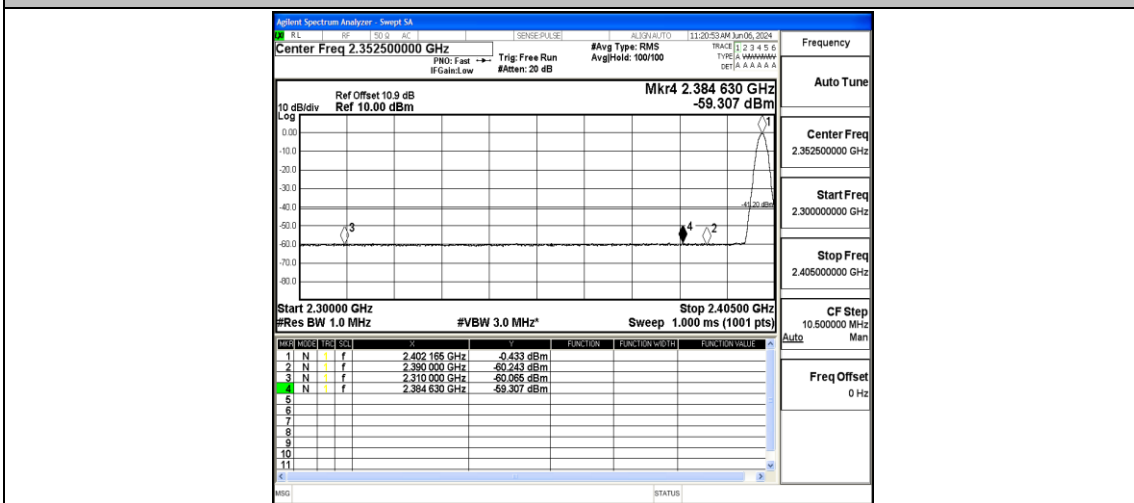
Note:

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.

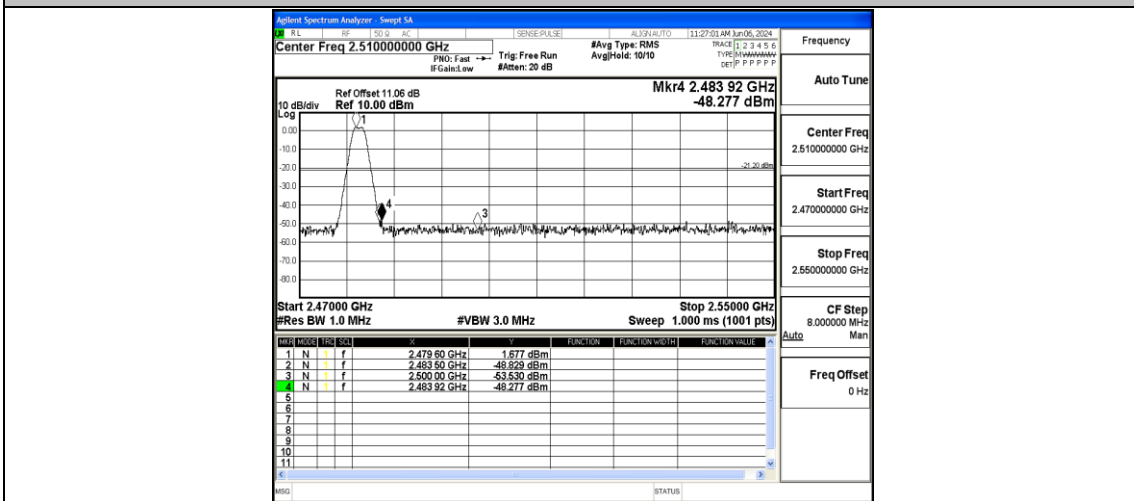
### Test Graphs



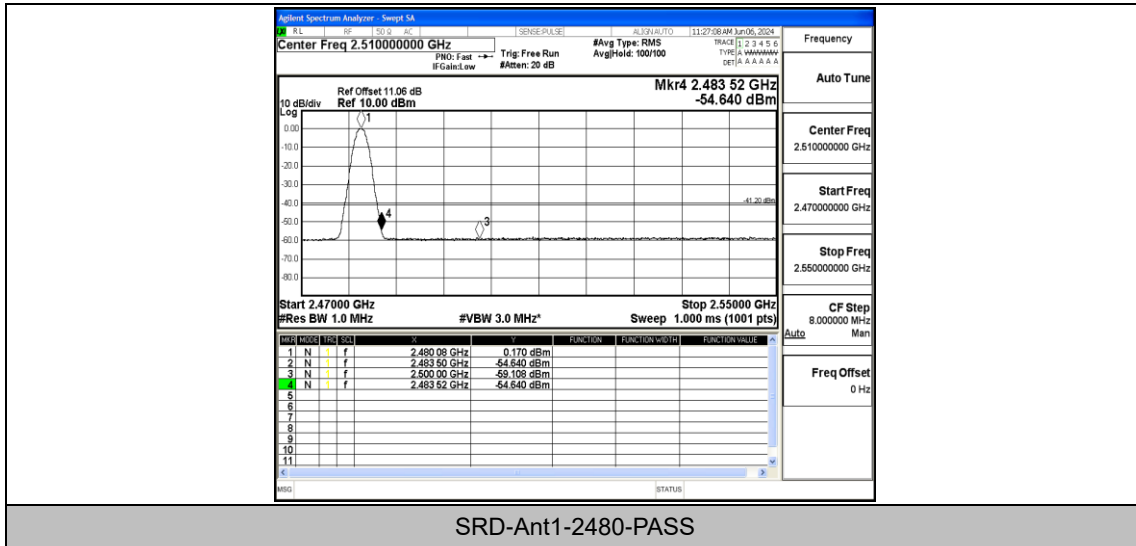
SRD-Ant1-2402-PASS



SRD-Ant1-2402-PASS



SRD-Ant1-2480-PASS



SRD-Ant1-2480-PASS