

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Keychron M3 Mouse

Trade Mark: Keychron

Test Model: Keychron M3

FCC ID: 2ASF4-M3

Environmental Conditions

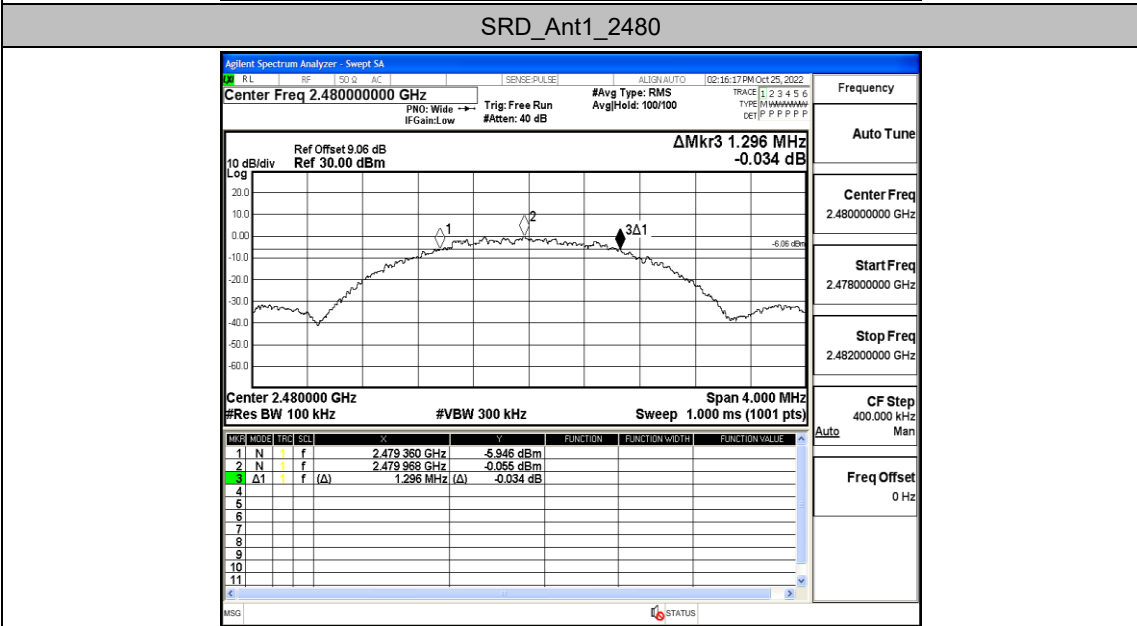
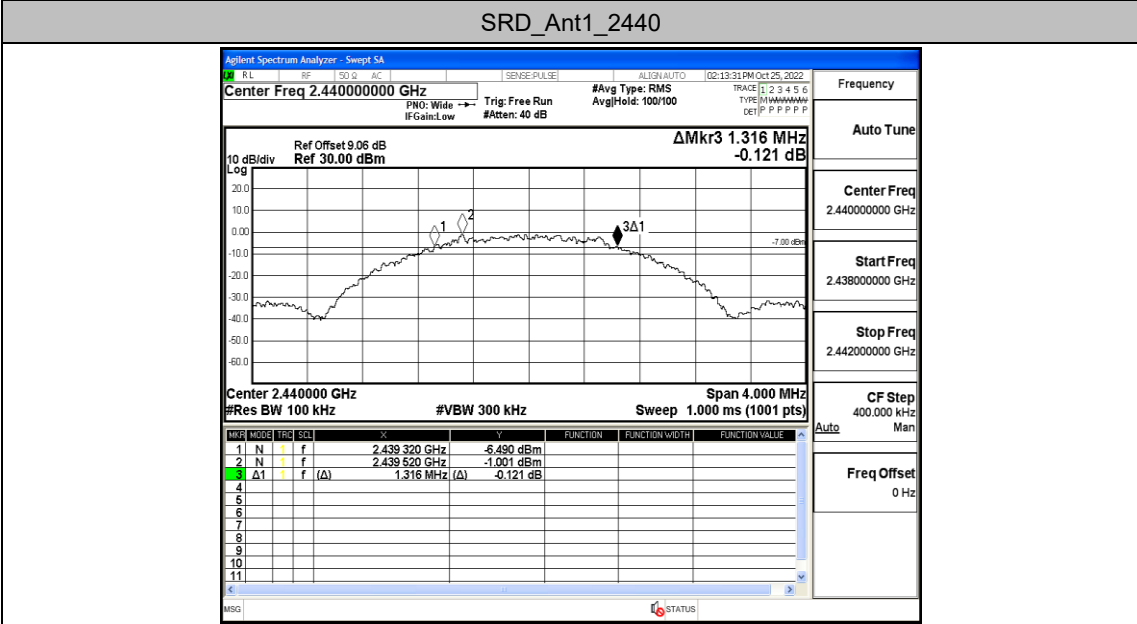
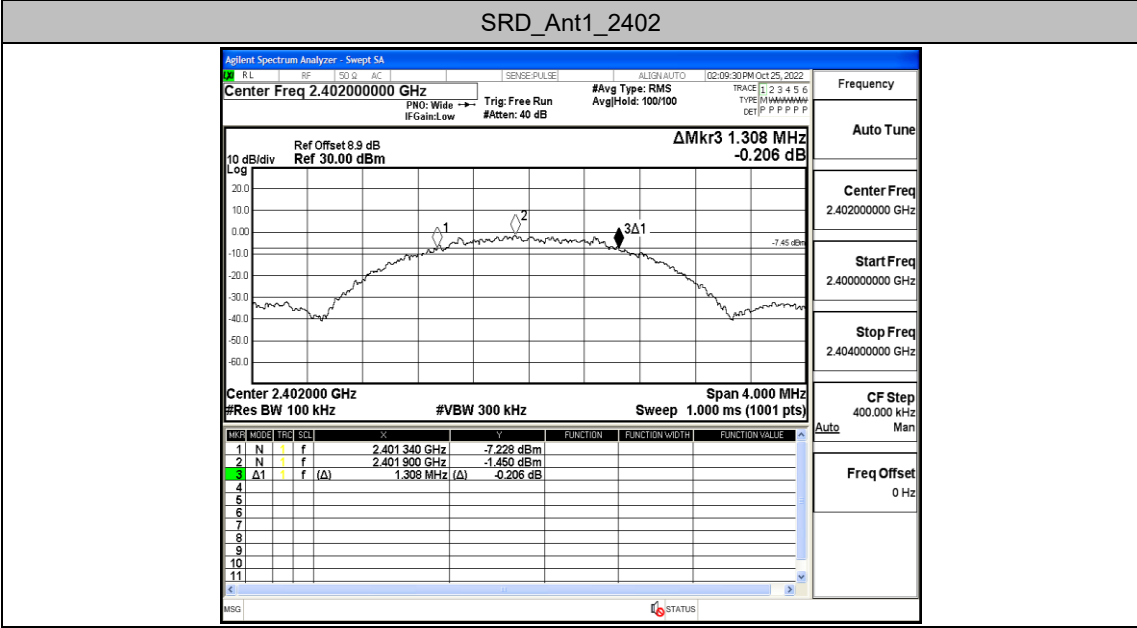
Temperature:	22.5℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.308	2401.340	2402.648	0.5	PASS
		2440	1.316	2439.320	2440.636	0.5	PASS
		2480	1.296	2479.360	2480.656	0.5	PASS

Test Graphs

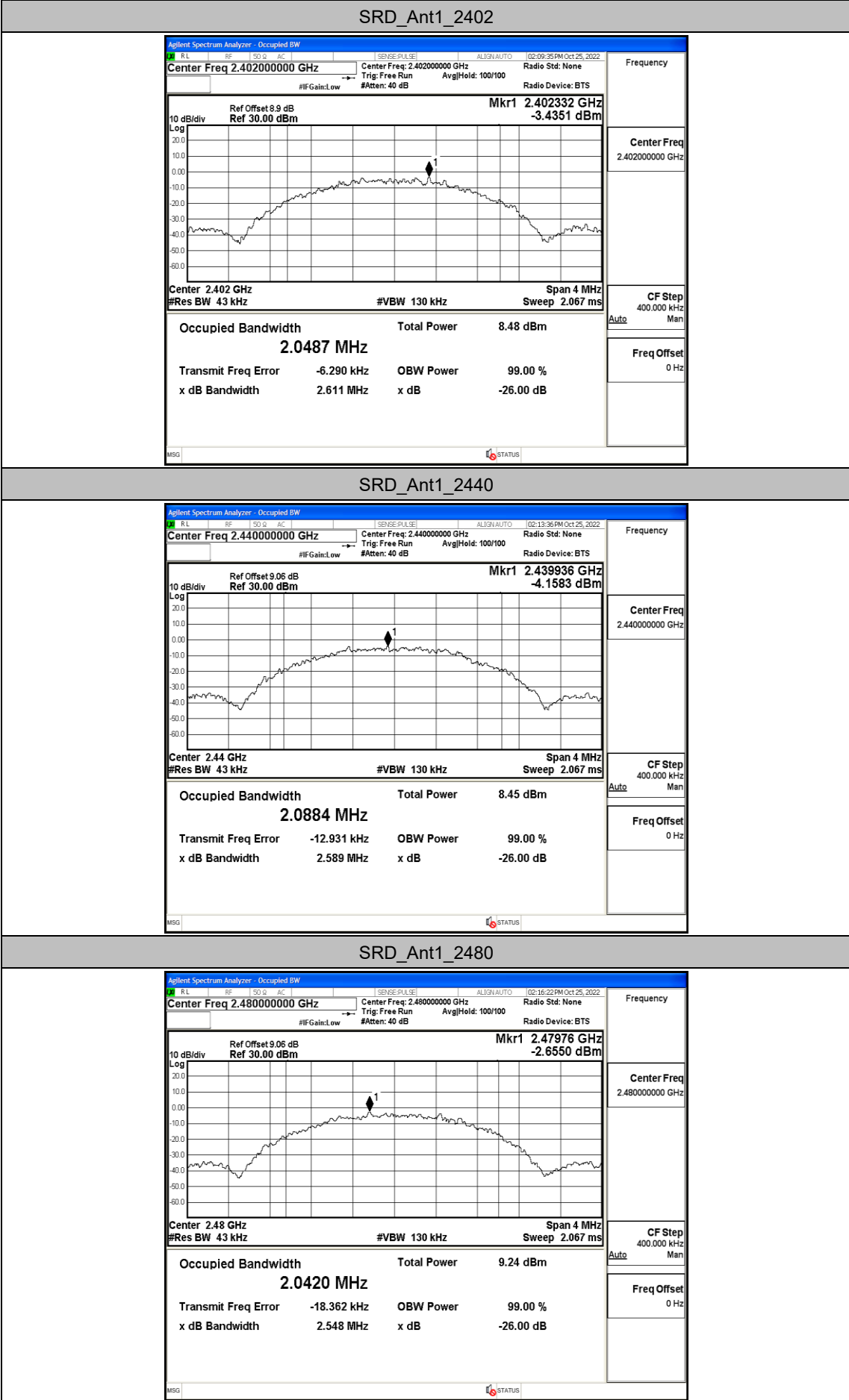


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0487	2400.9694	2403.0181	---	---
		2440	2.0884	2438.9429	2441.0313	---	---
		2480	2.0420	2478.9606	2481.0026	---	---

Test Graphs

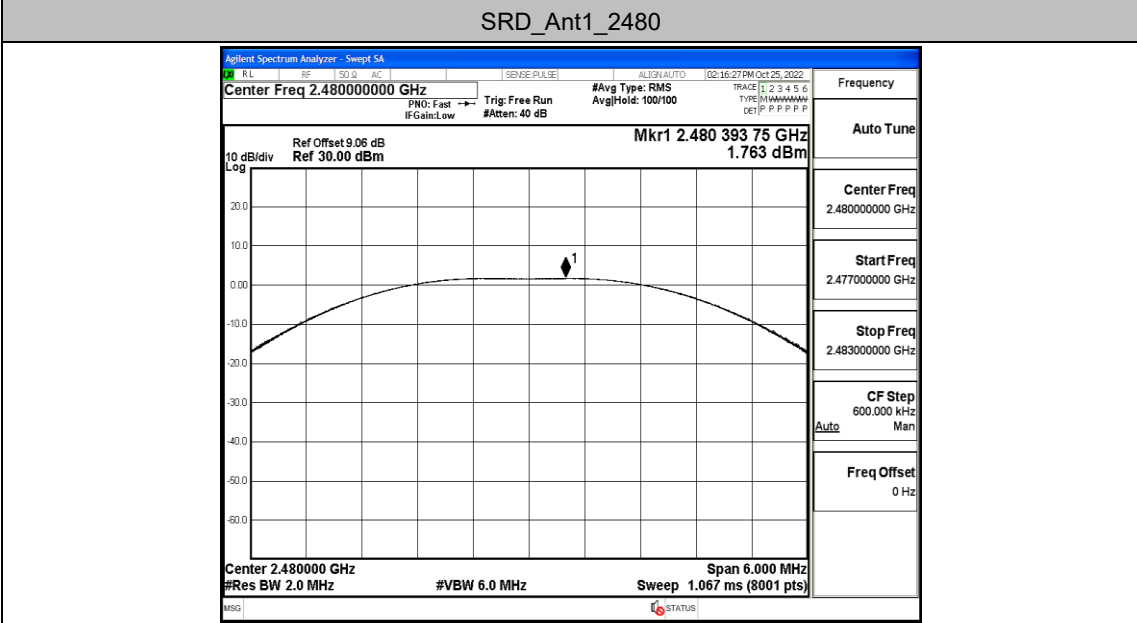
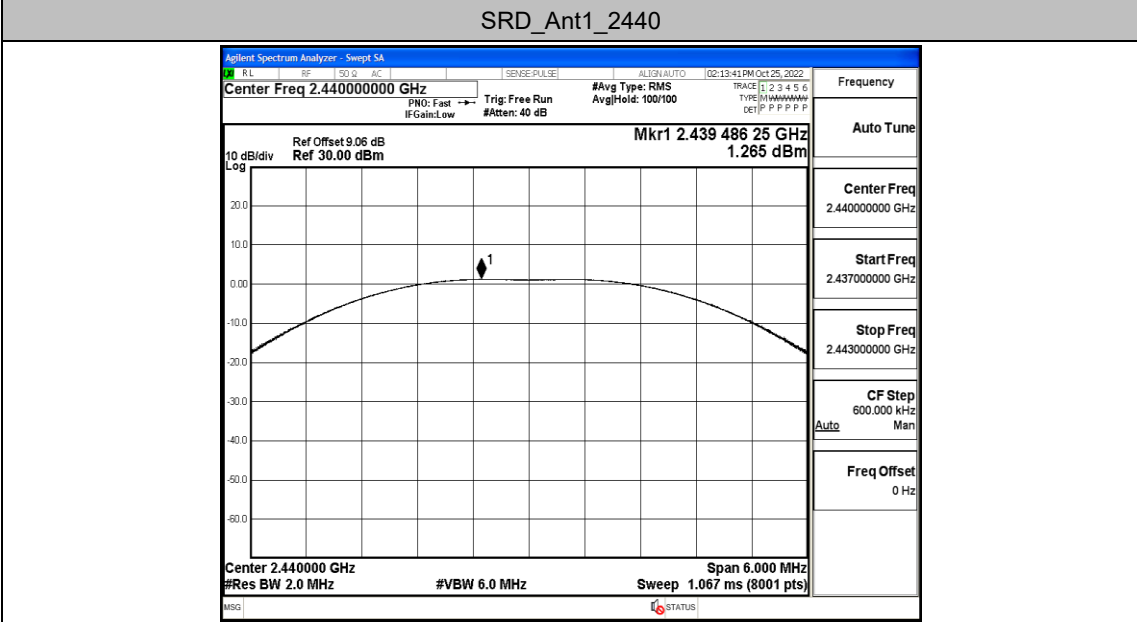
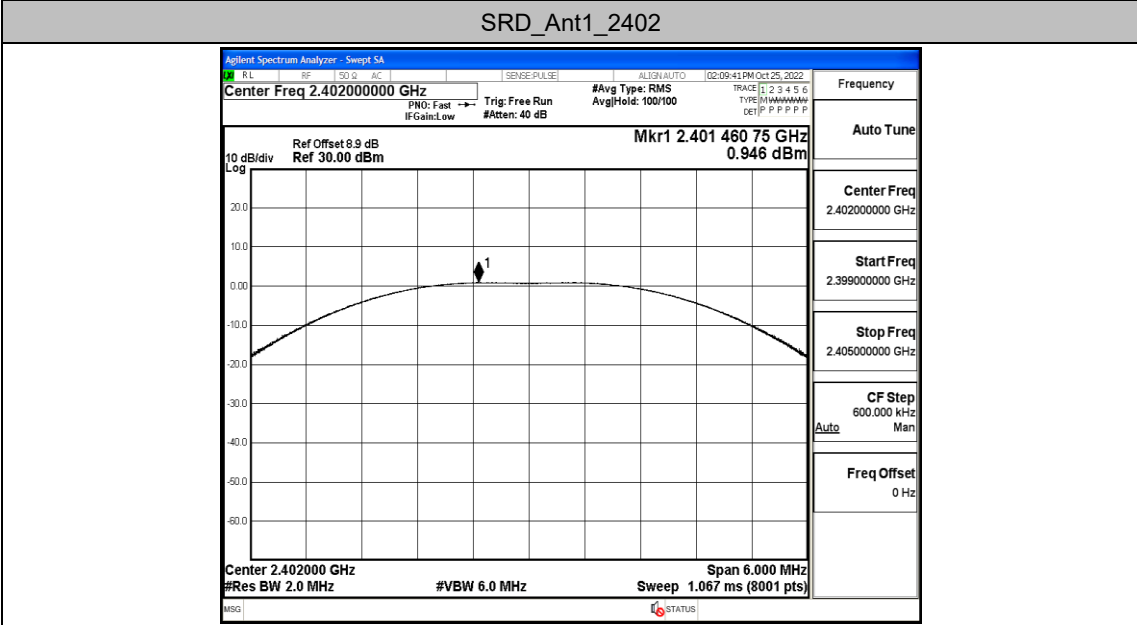


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0.95	≤30	PASS
		2440	1.27	≤30	PASS
		2480	1.76	≤30	PASS

Test Graphs

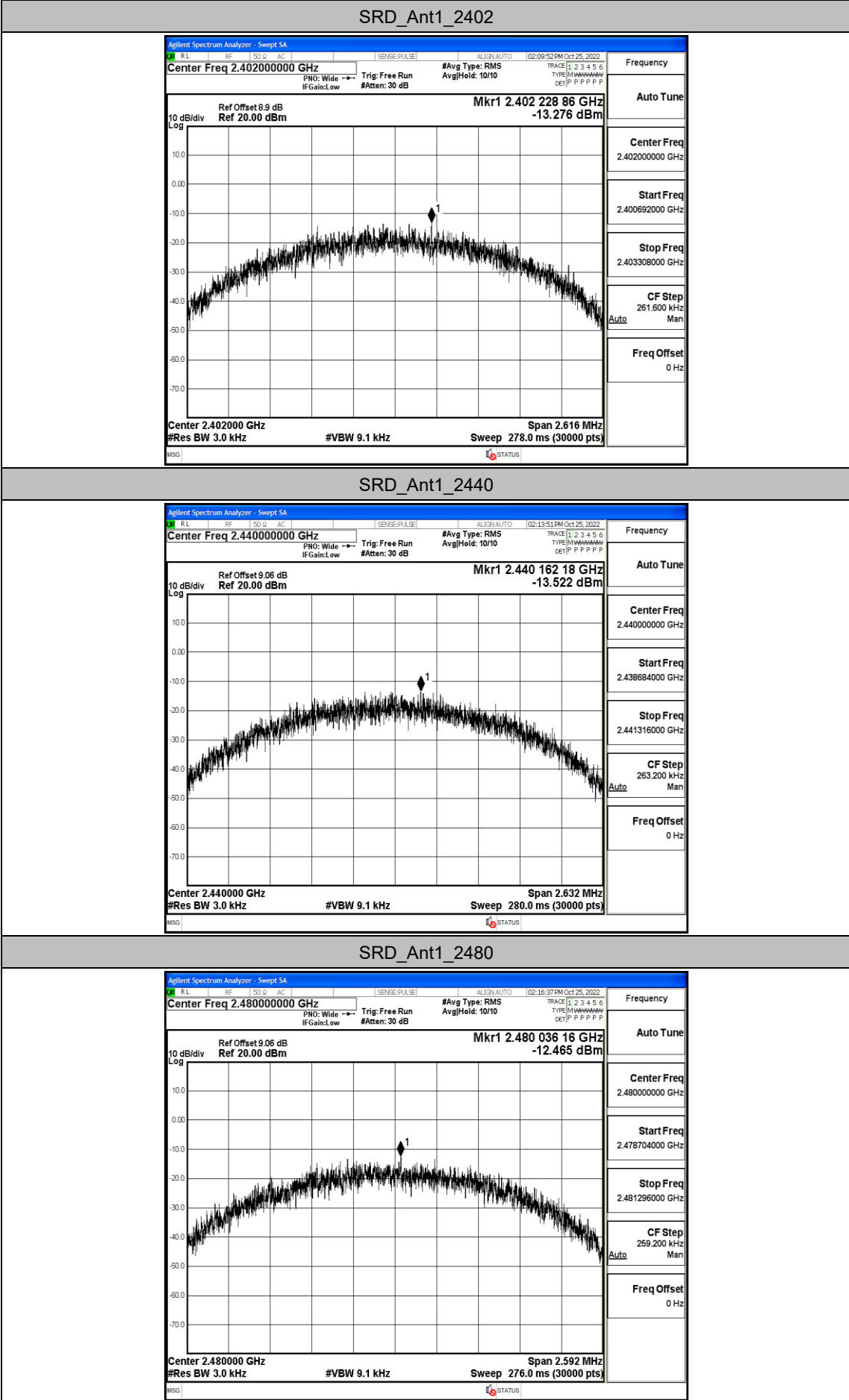


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-13.28	≤8.00	PASS
		2440	-13.52	≤8.00	PASS
		2480	-12.47	≤8.00	PASS

Test Graphs

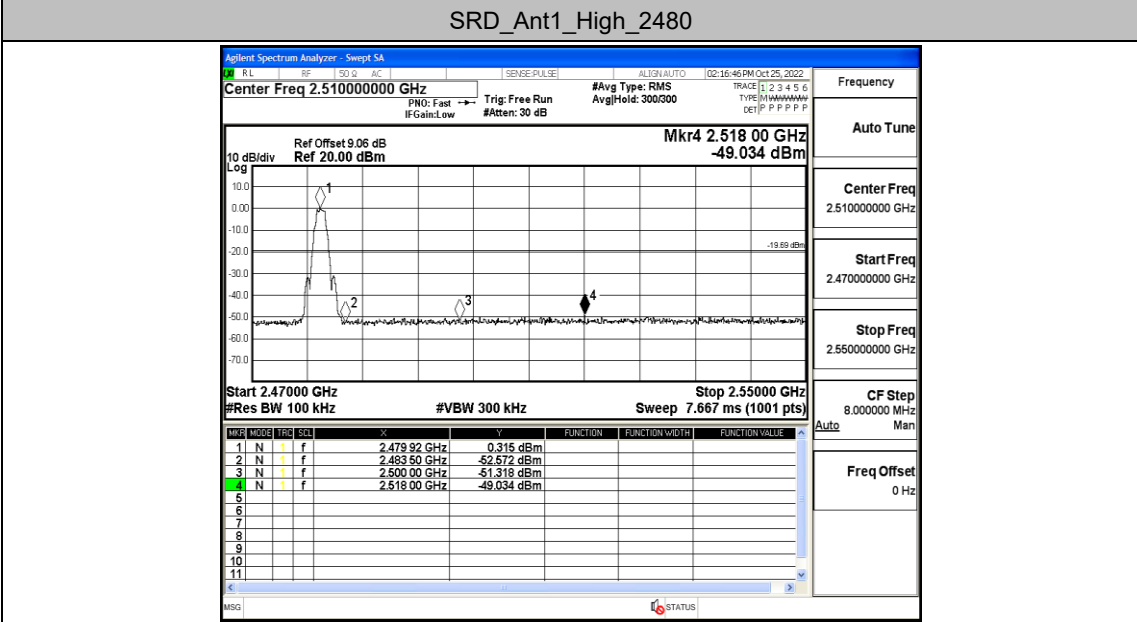
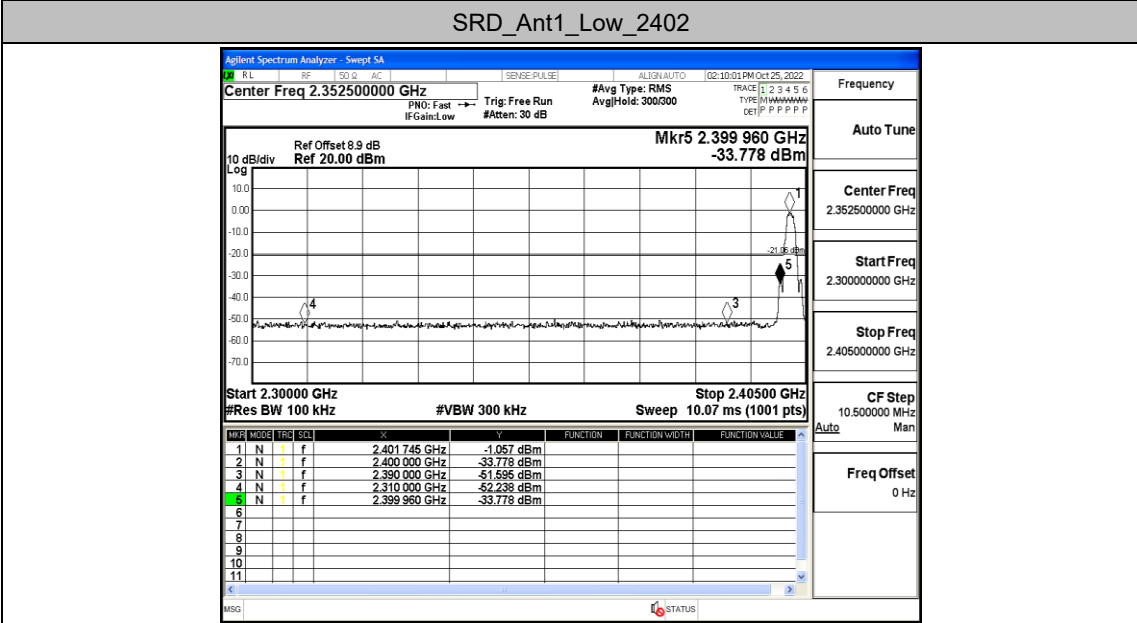


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-1.06	-33.78	≤-21.06	PASS
		High	2480	0.32	-49.03	≤-19.69	PASS

Test Graphs

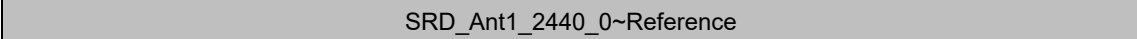
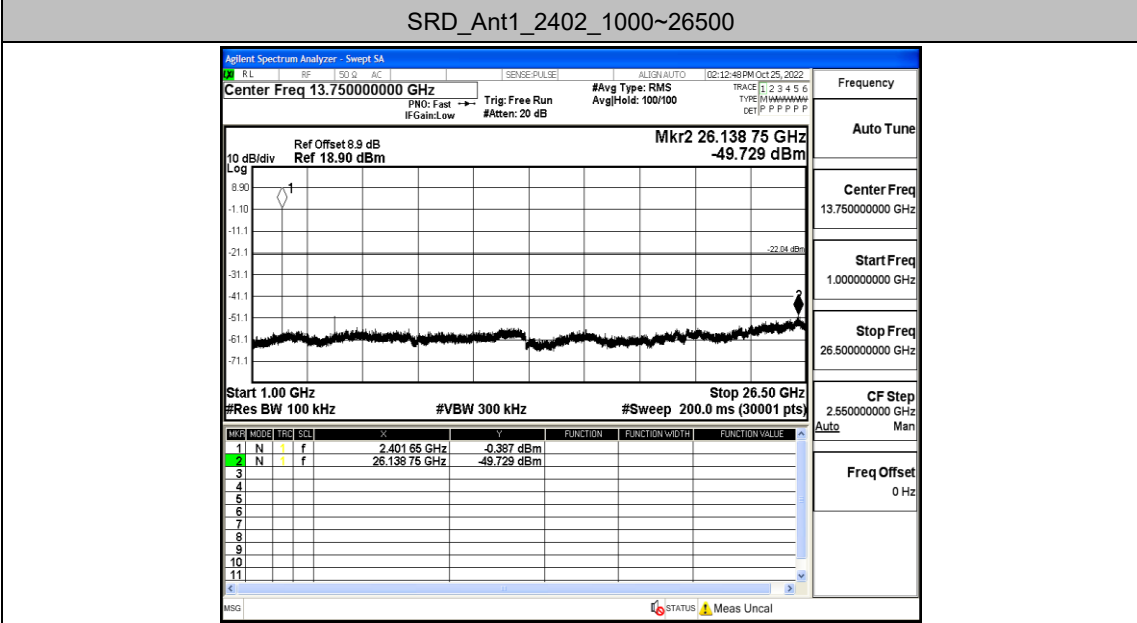
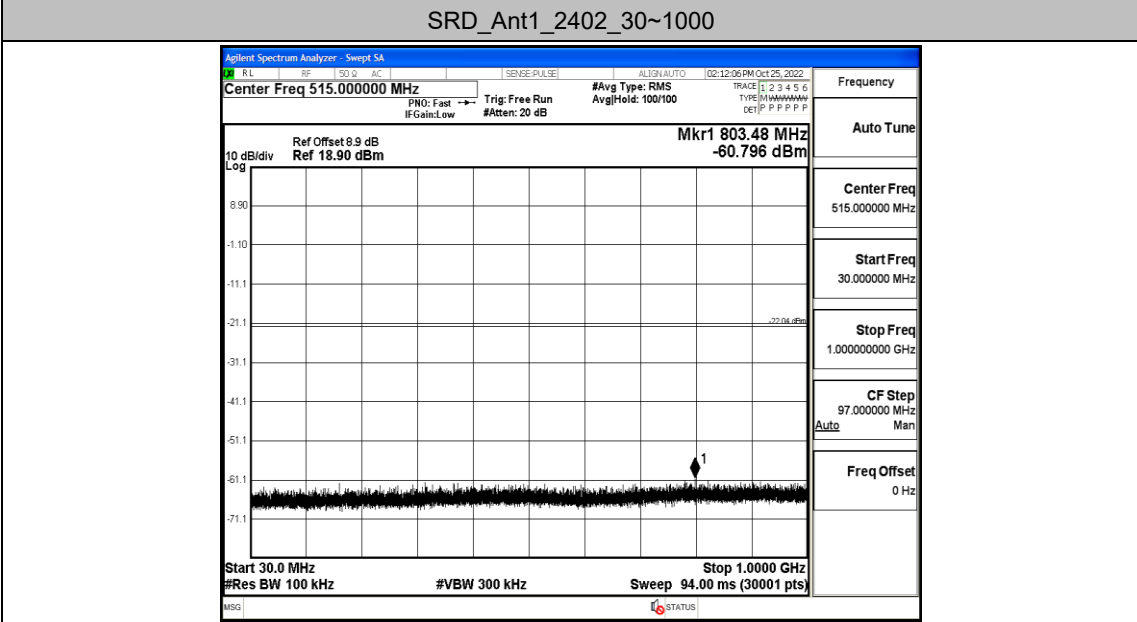
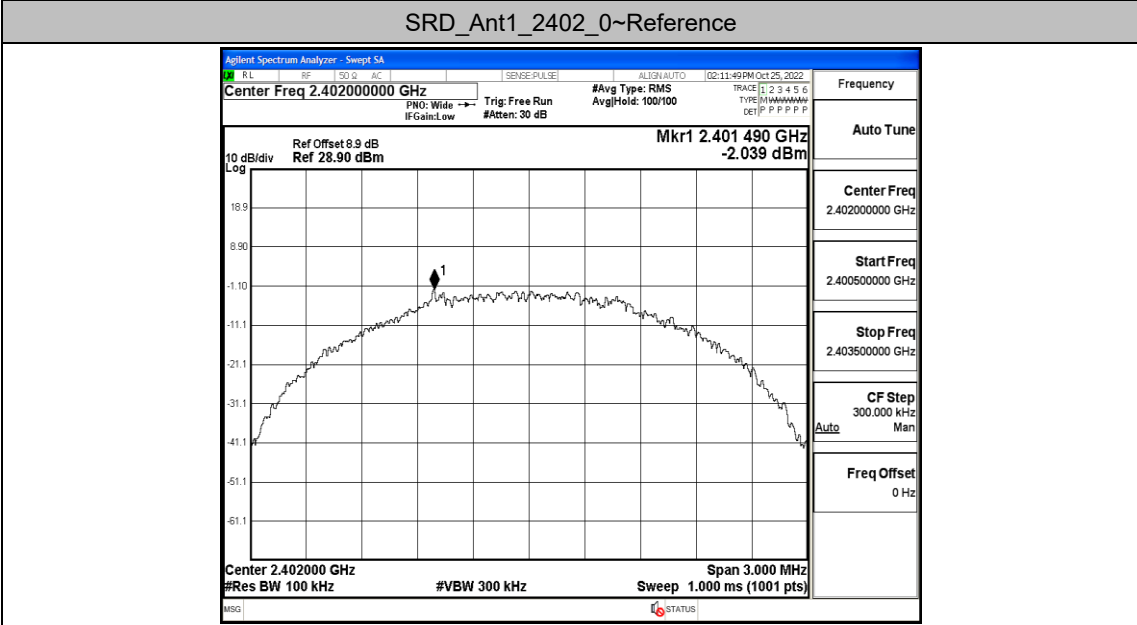


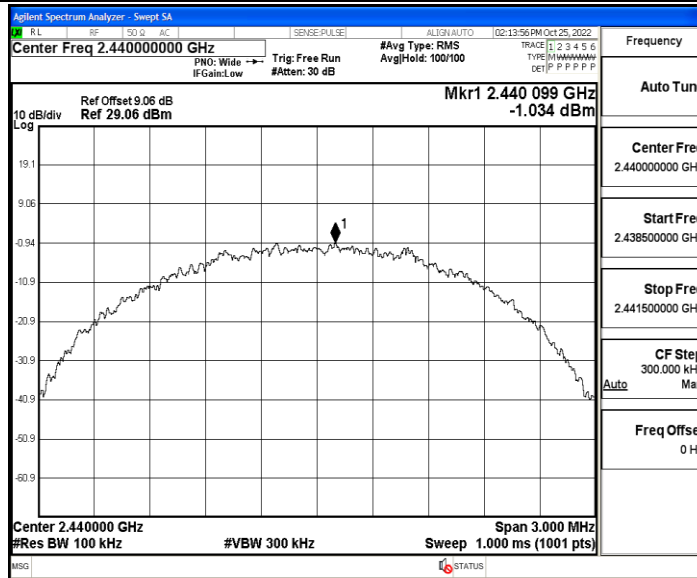
Appendix F: Conducted Spurious Emission

Test Result

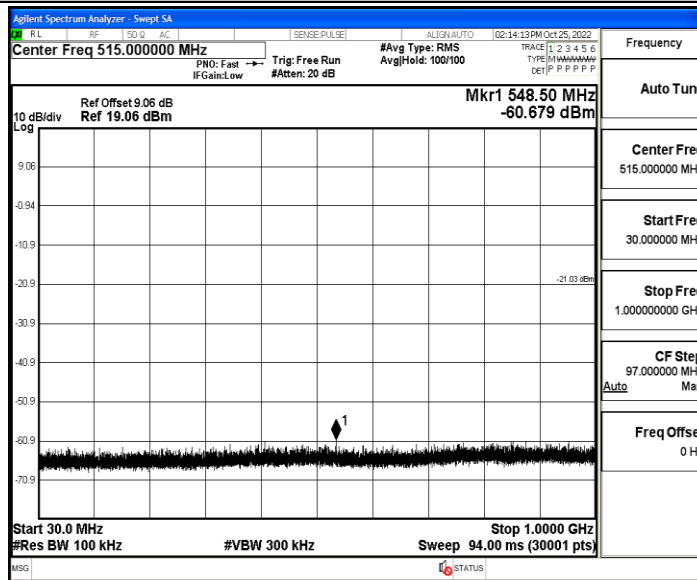
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-60.8	≤-22.04	PASS
			1000~26500	-2.04	-49.73	≤-22.04	PASS
		2440	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-60.68	≤-21.03	PASS
			1000~26500	-1.03	-49.56	≤-21.03	PASS
		2480	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-60.8	≤-20.35	PASS
			1000~26500	-0.35	-49.71	≤-20.35	PASS

Test Graphs

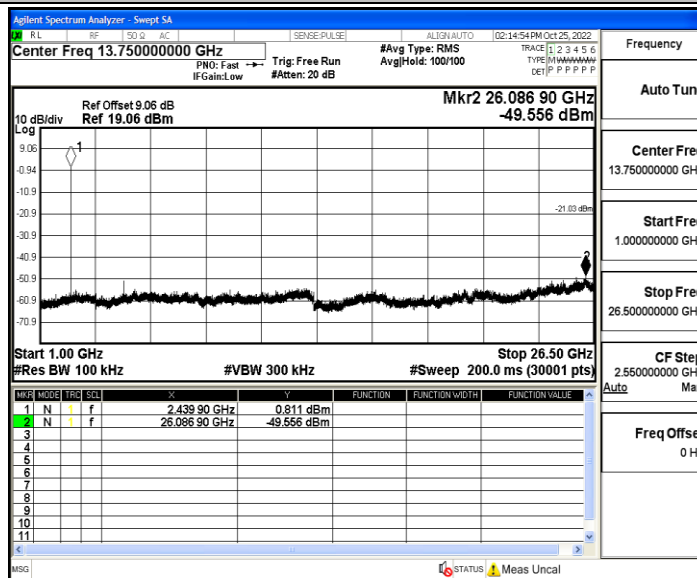




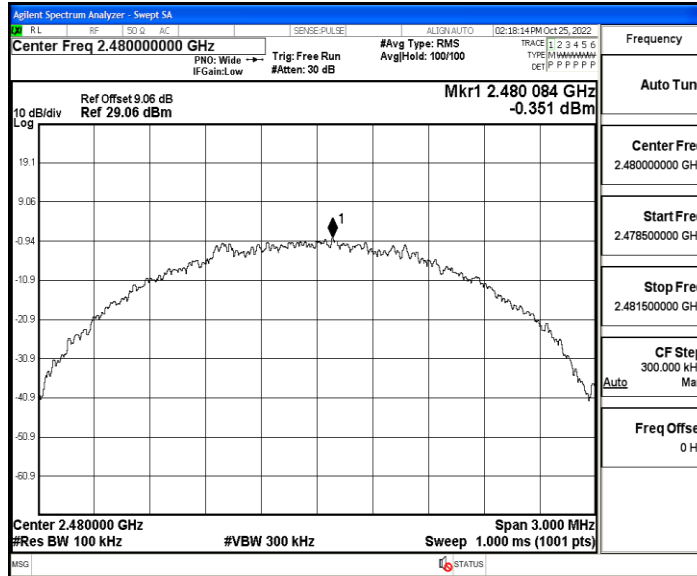
SRD_Ant1_2440_30~1000



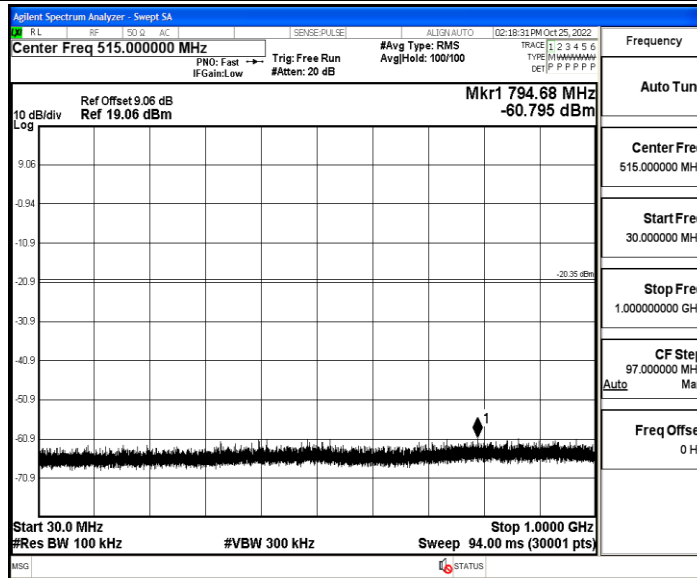
SRD_Ant1_2440_1000~26500



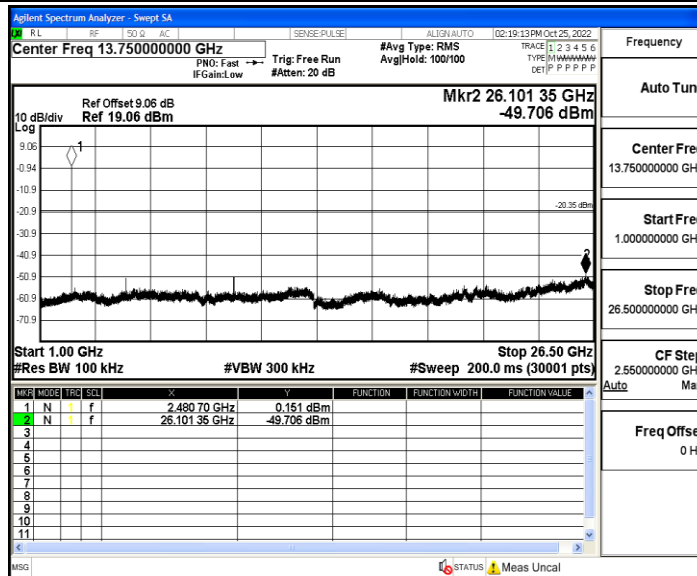
SRD_Ant1_2480_0~Reference



SRD_Ant1_2480_30~1000



SRD_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
SRD	Ant1	2402	10.13	10.13	100	0.01
		2440	10.13	10.13	100	0.01
		2480	10.13	10.13	100	0.01

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

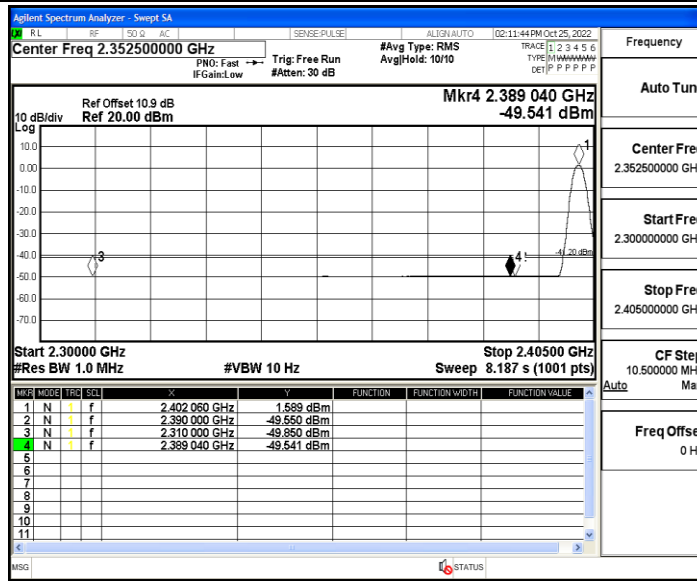
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	AV	2310.000	-49.85	≤-41.20	PASS
				AV	2389.040	-49.54	≤-41.20	PASS
				AV	2390.000	-49.55	≤-41.20	PASS
				Peak	2310.000	-44.52	≤-21.20	PASS
				Peak	2332.760	-40.58	≤-21.20	PASS
				Peak	2390.000	-43.54	≤-21.20	PASS
		High	2480	AV	2483.500	-45.31	≤-41.20	PASS
				AV	2483.520	-45.31	≤-41.20	PASS
				AV	2500.000	-48.85	≤-41.20	PASS
				Peak	2483.500	-43.12	≤-21.20	PASS
				Peak	2495.440	-39.28	≤-21.20	PASS
				Peak	2500.000	-43.75	≤-21.20	PASS

Note:

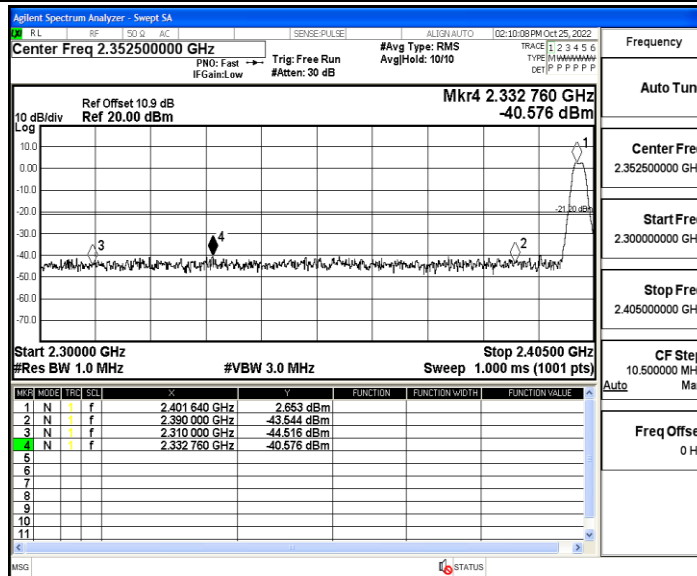
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

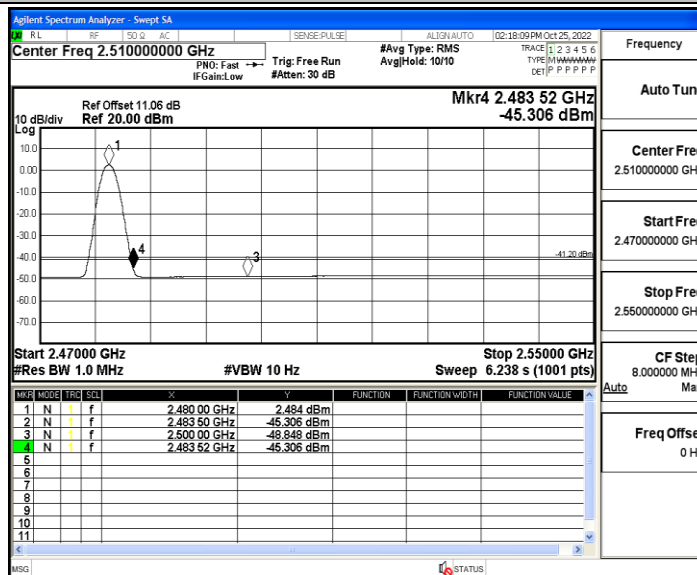
SRD_Ant1_Low_2402_AV



SRD_Ant1_Low_2402_Peak



SRD_Ant1_High_2480_AV



SRD_Ant1_High_2480_Peak

