

Appendix Test Data for BT(BLE) (Conducted Measurement)

Product Name: Wireless Mouse

Trade Mark: Keychron

Test Model: Keychron M1

FCC ID: 2ASF4-M1

Environmental Conditions

Temperature:	22.5°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	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.268	2401.348	2402.616	0.5	PASS
		2440	1.284	2439.392	2440.676	0.5	PASS
		2480	1.172	2479.408	2480.580	0.5	PASS

Test Graphs

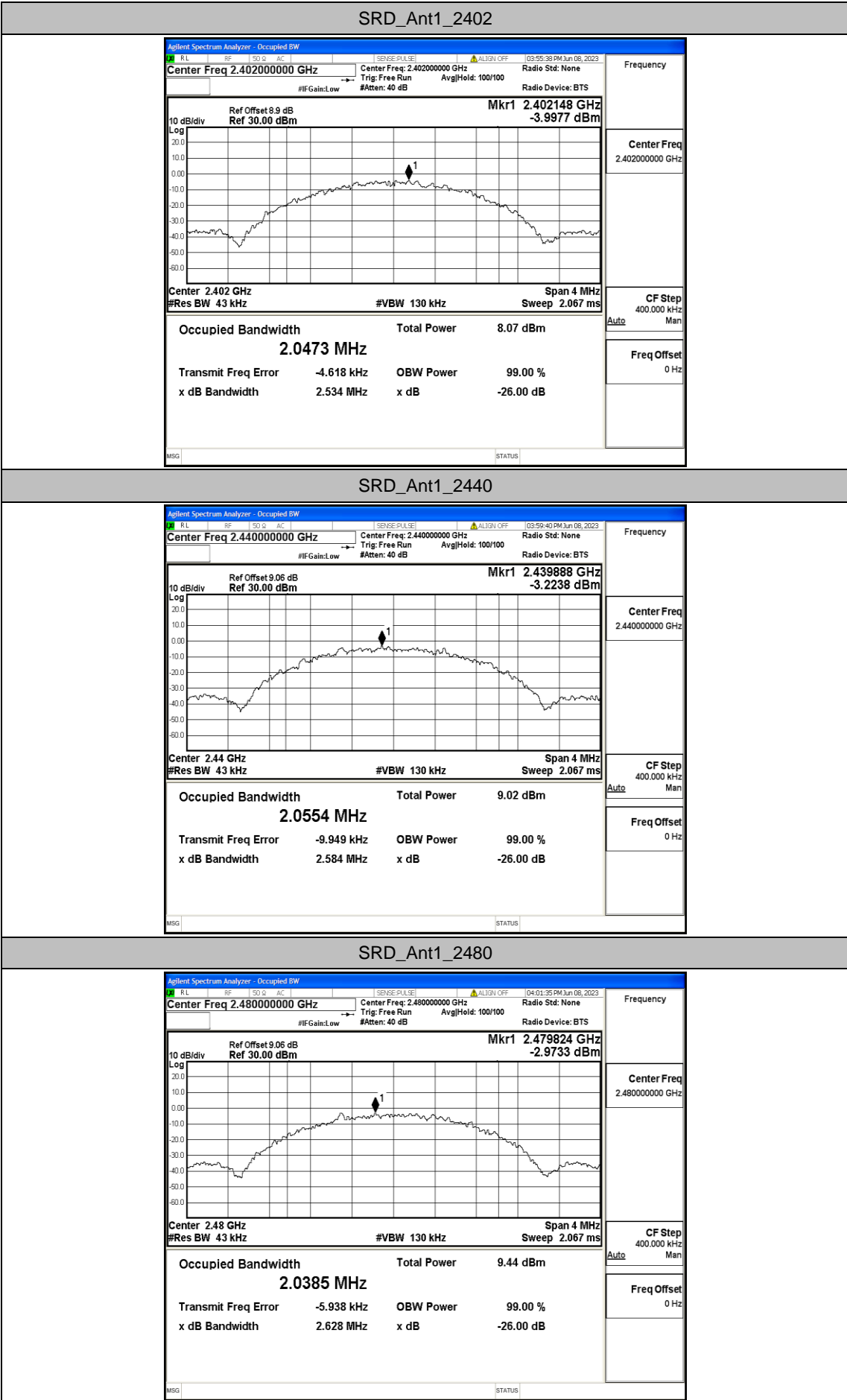


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0473	2400.9717	2403.0190	---	---
		2440	2.0554	2438.9624	2441.0178	---	---
		2480	2.0385	2478.9748	2481.0133	---	---

Test Graphs

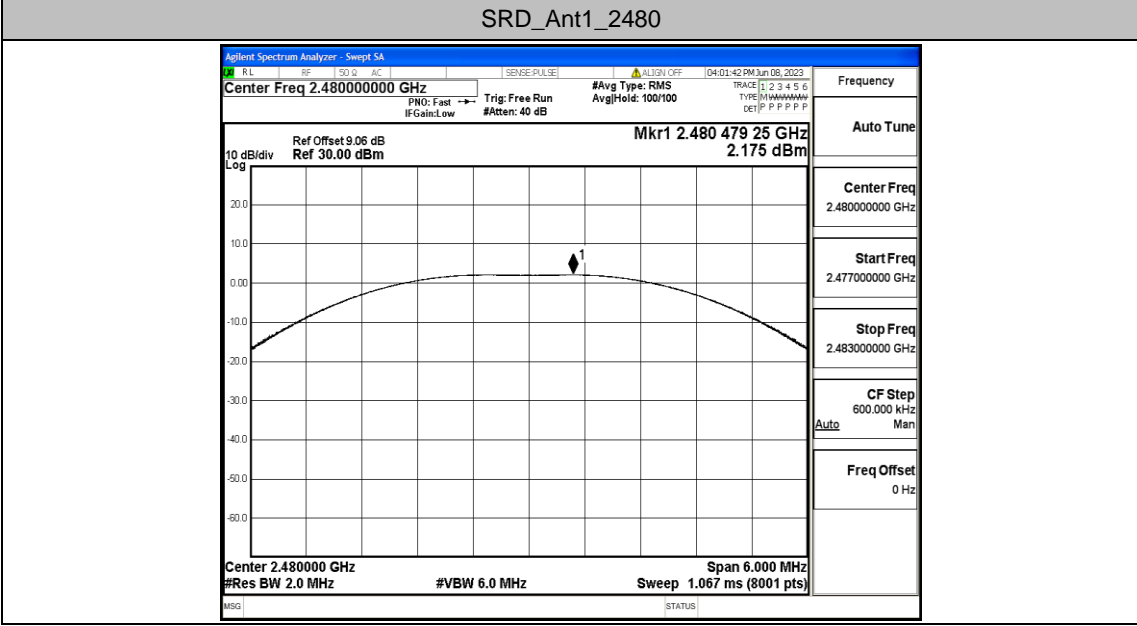
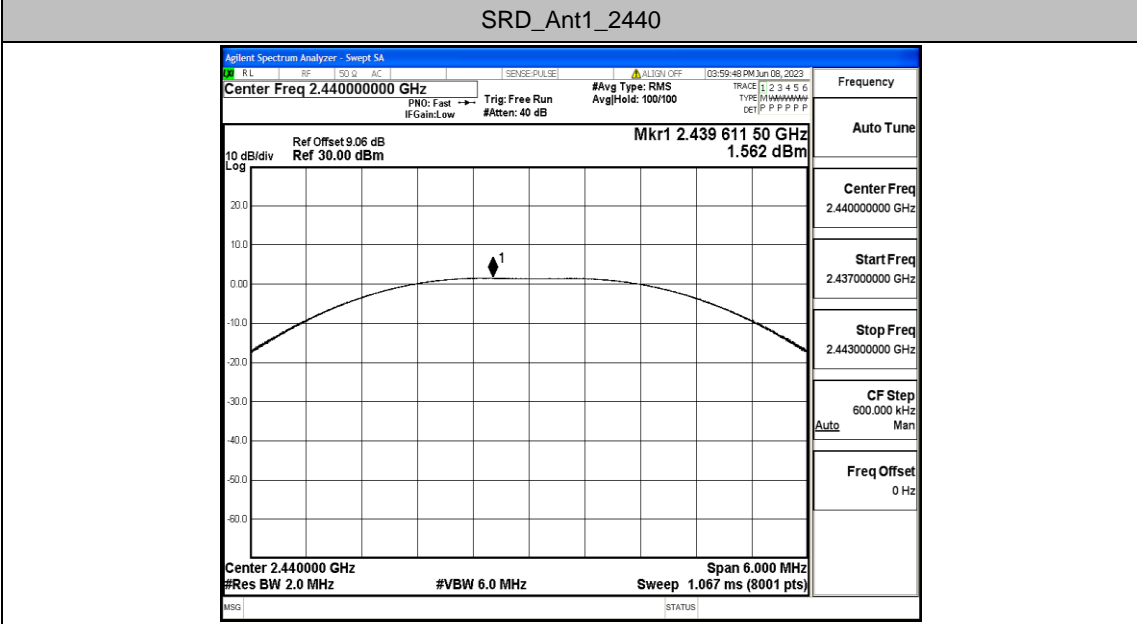
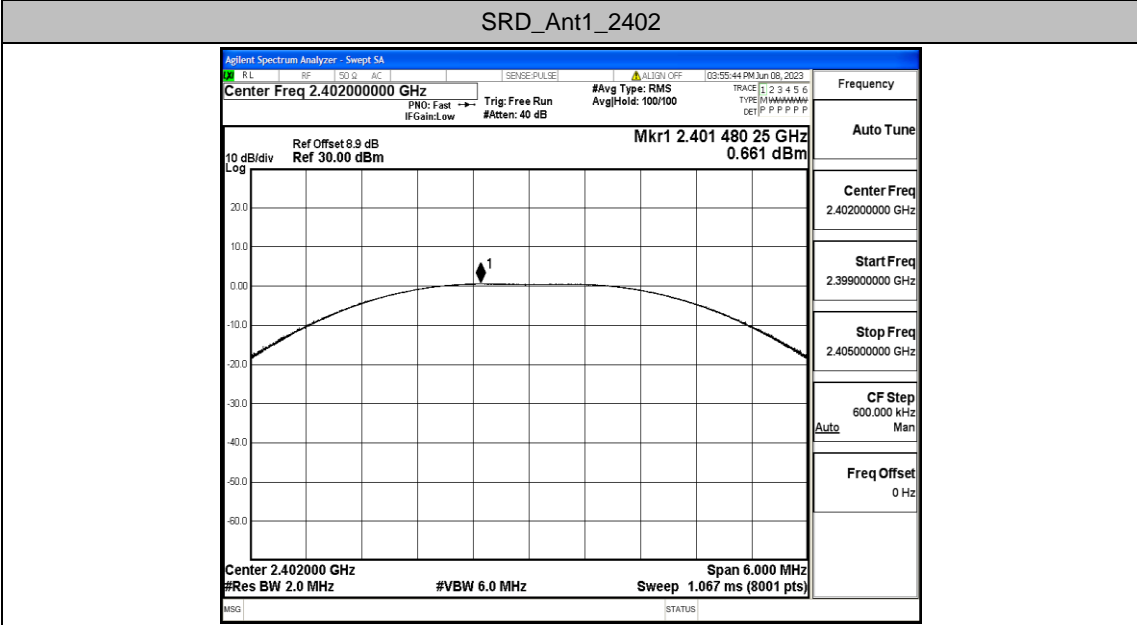


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0.66	≤30	PASS
		2440	1.56	≤30	PASS
		2480	2.18	≤30	PASS

Test Graphs

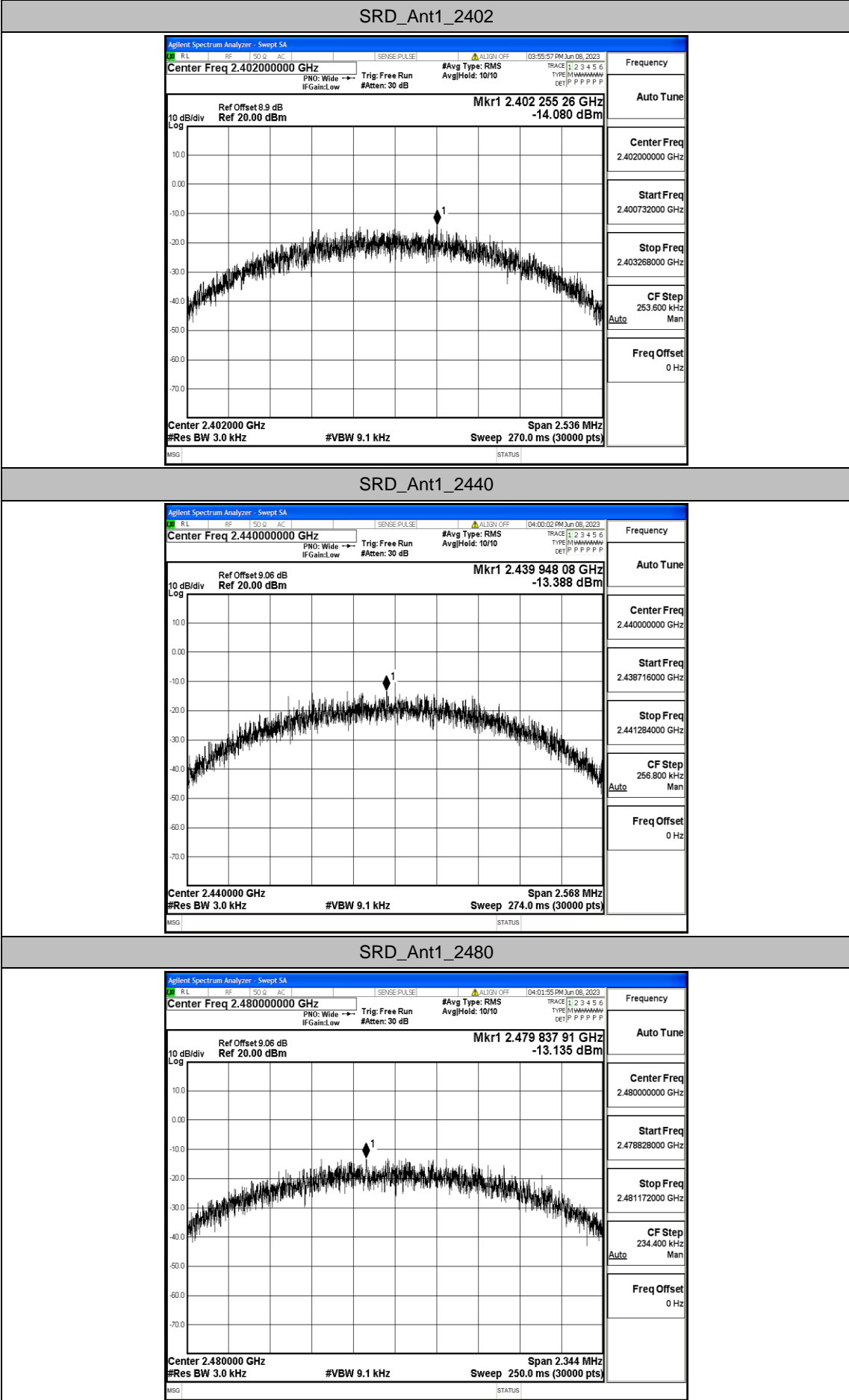


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-14.08	≤8.00	PASS
		2440	-13.39	≤8.00	PASS
		2480	-13.14	≤8.00	PASS

Test Graphs

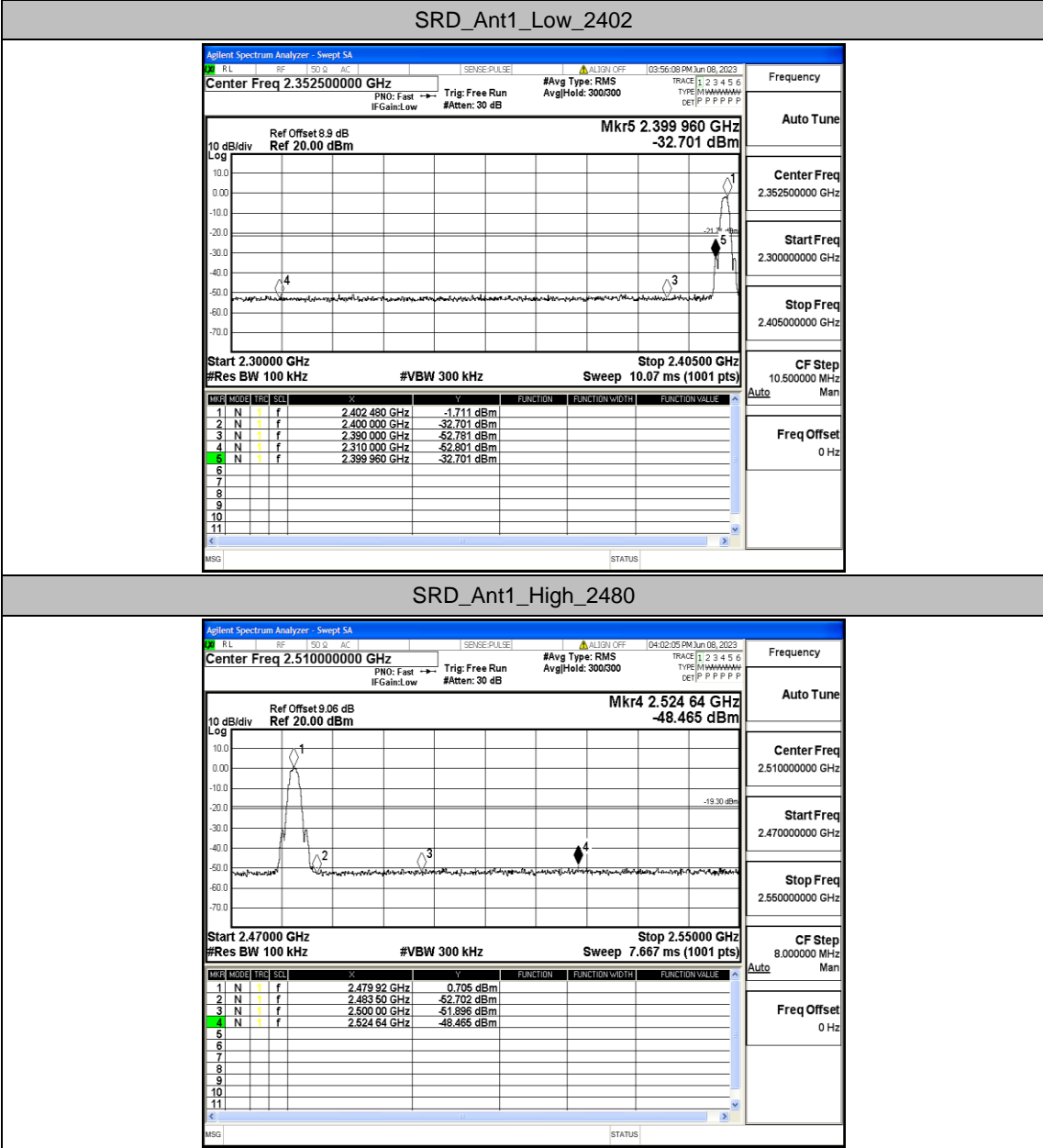


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-1.71	-32.7	≤-21.71	PASS
		High	2480	0.71	-48.47	≤-19.3	PASS

Test Graphs

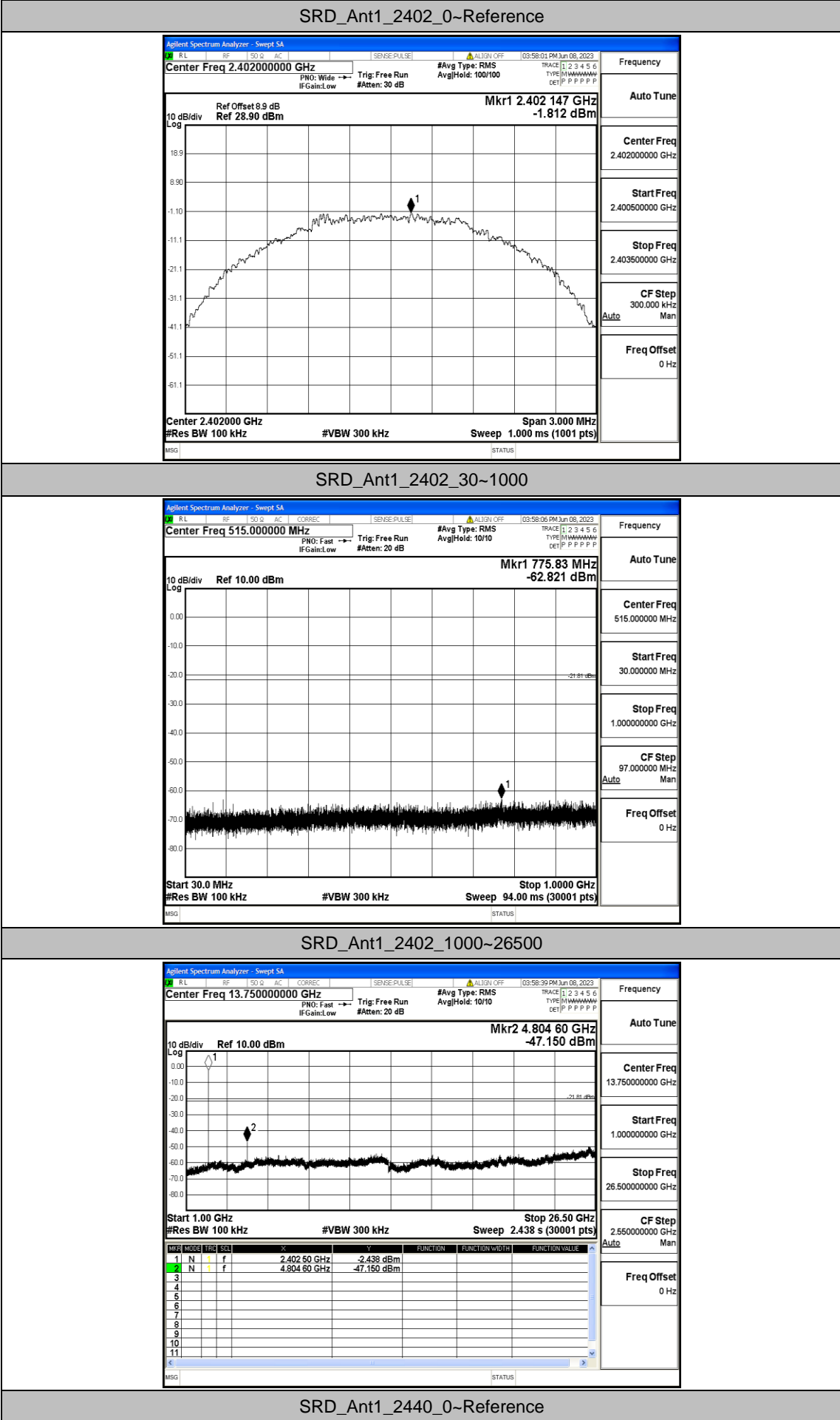


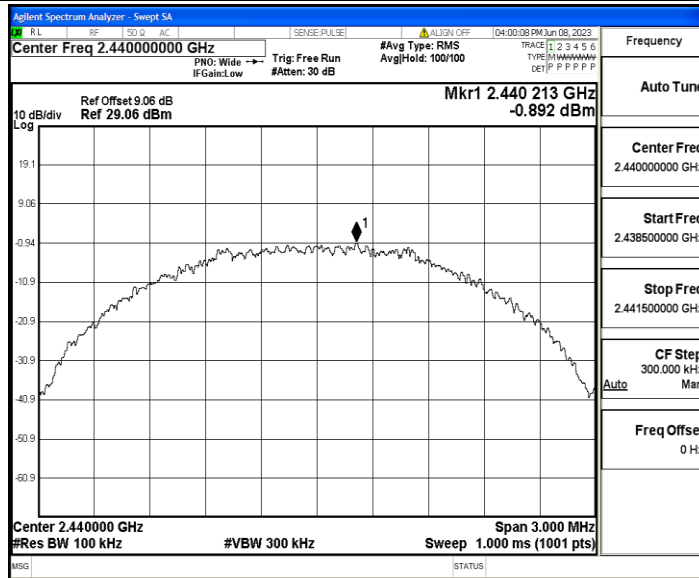
Appendix F: Conducted Spurious Emission

Test Result

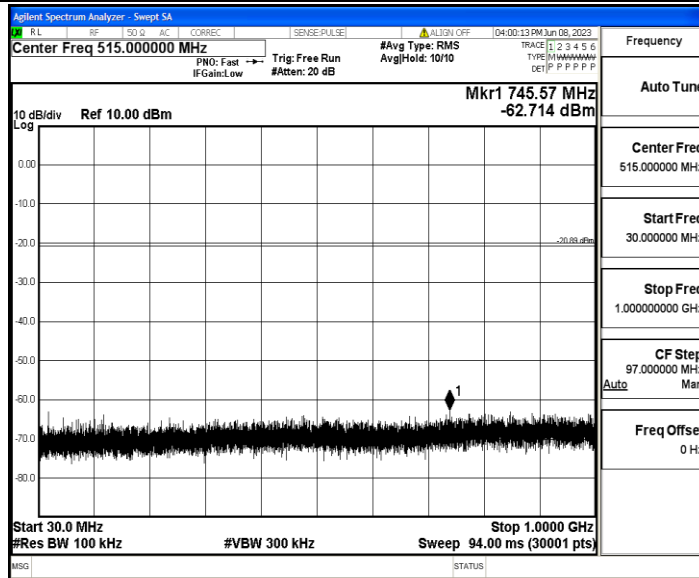
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-62.82	≤-21.81	PASS
			1000~26500	-1.81	-47.15	≤-21.81	PASS
		2440	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-62.71	≤-20.89	PASS
			1000~26500	-0.89	-45.51	≤-20.89	PASS
		2480	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-62.86	≤-19.94	PASS
			1000~26500	0.06	-46.41	≤-19.94	PASS

Test Graphs

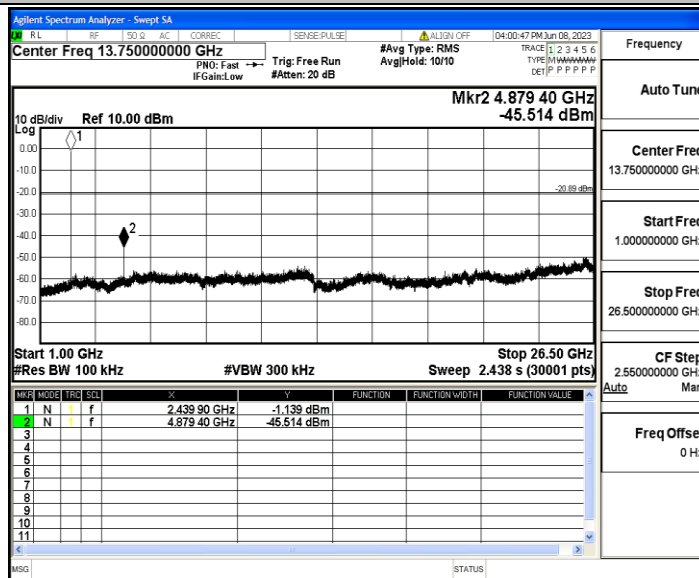




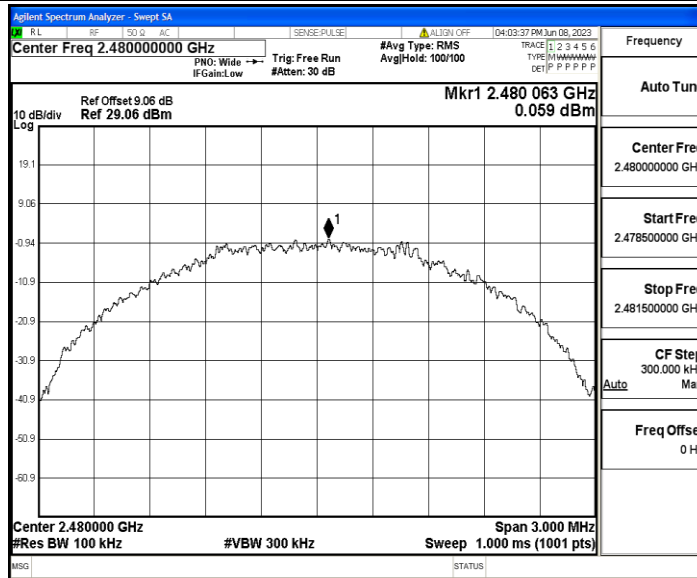
SRD_Ant1_2440_30~1000



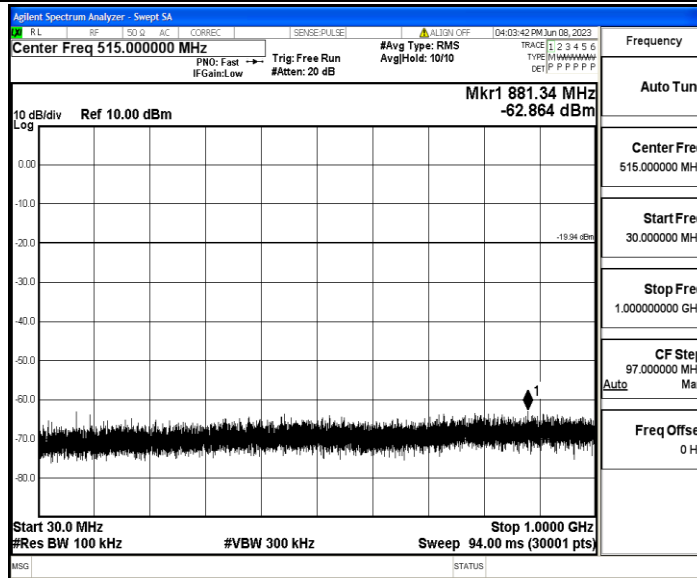
SRD_Ant1_2440_1000~26500



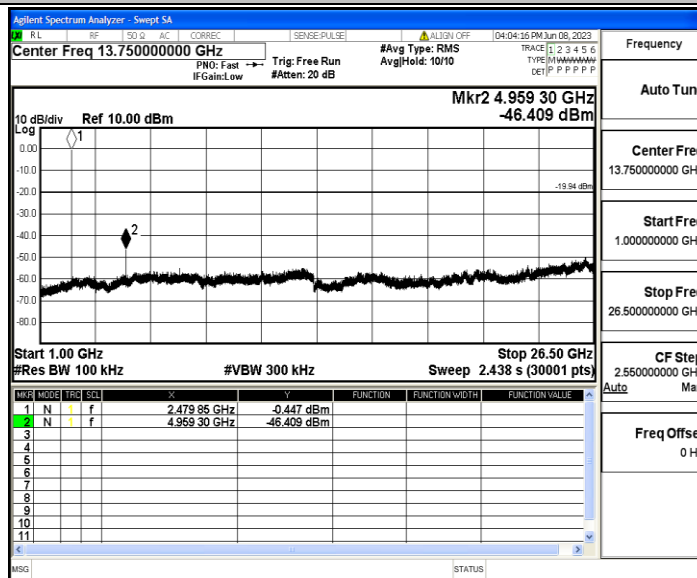
SRD_Ant1_2480_0-Reference



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	0.00	0.00	100	∞
		2440	0.00	0.00	100	∞
		2480	0.00	0.00	100	∞

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

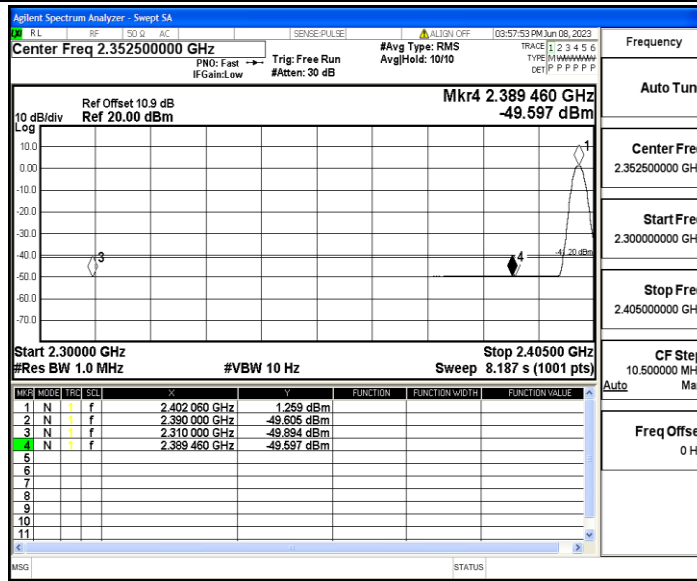
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	AV	2310.000	-49.89	≤-41.20	PASS
				AV	2389.460	-49.6	≤-41.20	PASS
				AV	2390.000	-49.61	≤-41.20	PASS
				Peak	2310.000	-44.28	≤-21.20	PASS
				Peak	2389.355	-40.13	≤-21.20	PASS
				Peak	2390.000	-43.19	≤-21.20	PASS
		High	2480	AV	2483.500	-44.92	≤-41.20	PASS
				AV	2483.520	-44.92	≤-41.20	PASS
				AV	2500.000	-48.87	≤-41.20	PASS
				Peak	2483.500	-43.5	≤-21.20	PASS
				Peak	2489.360	-40.45	≤-21.20	PASS
				Peak	2500.000	-44.19	≤-21.20	PASS

Note:

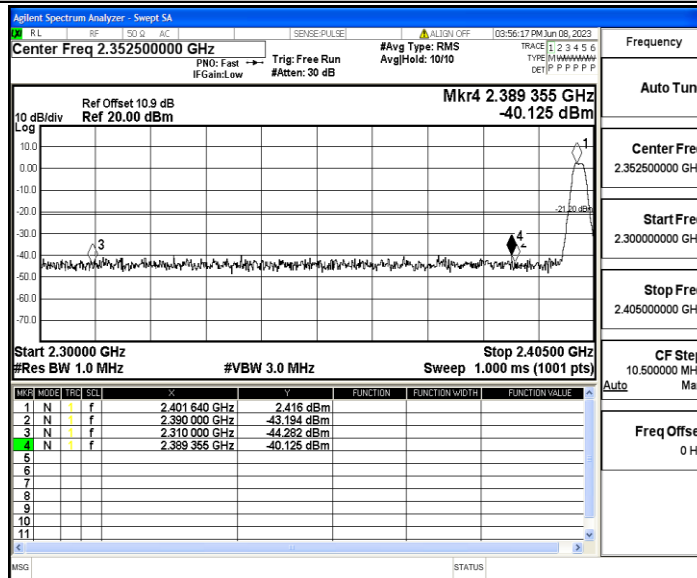
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

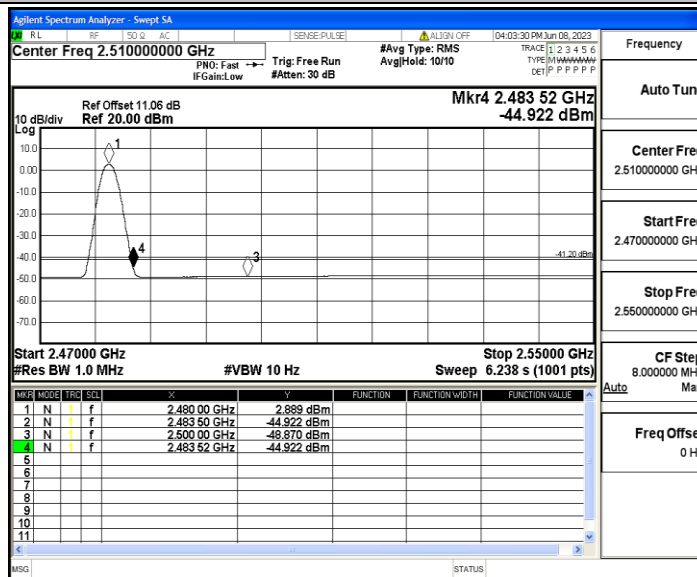
SRD_Ant1_Low_2402_AV



SRD_Ant1_Low_2402_Peak



SRD_Ant1_High_2480_AV



SRD_Ant1_High_2480_Peak

