

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

Product Name: Wireless Mouse

Trade Mark: Keychron

Test Model: Keychron M6

FCC ID: 2ASF4-M6

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
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
BLE_1M	Ant1	2402	0.688	2401.656	2402.344	0.5	PASS
		2440	0.708	2439.660	2440.368	0.5	PASS
		2480	0.672	2479.684	2480.356	0.5	PASS

Test Graphs

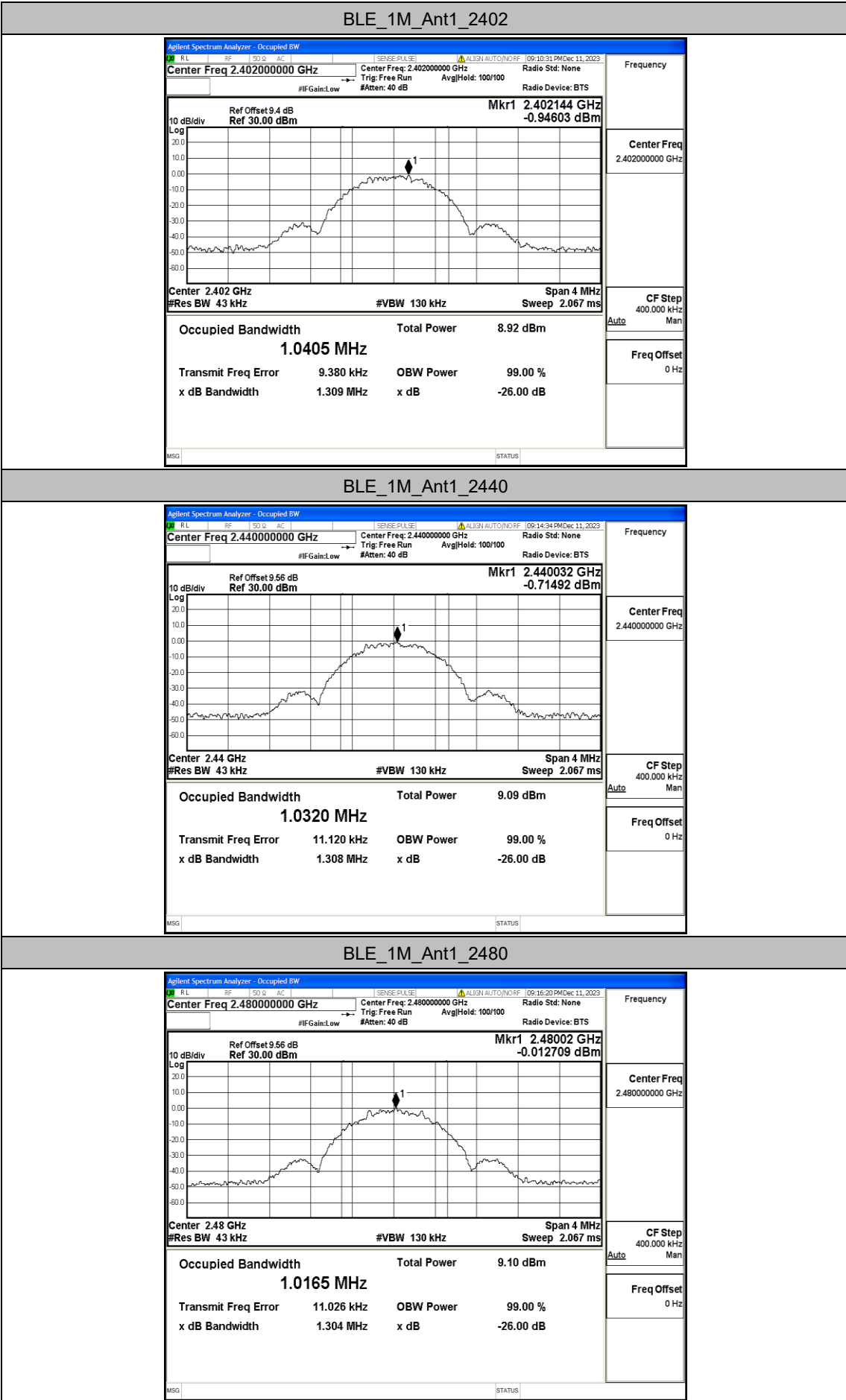


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0405	2401.4891	2402.5296	---	---
		2440	1.0320	2439.4951	2440.5271	---	---
		2480	1.0165	2479.5028	2480.5193	---	---

Test Graphs

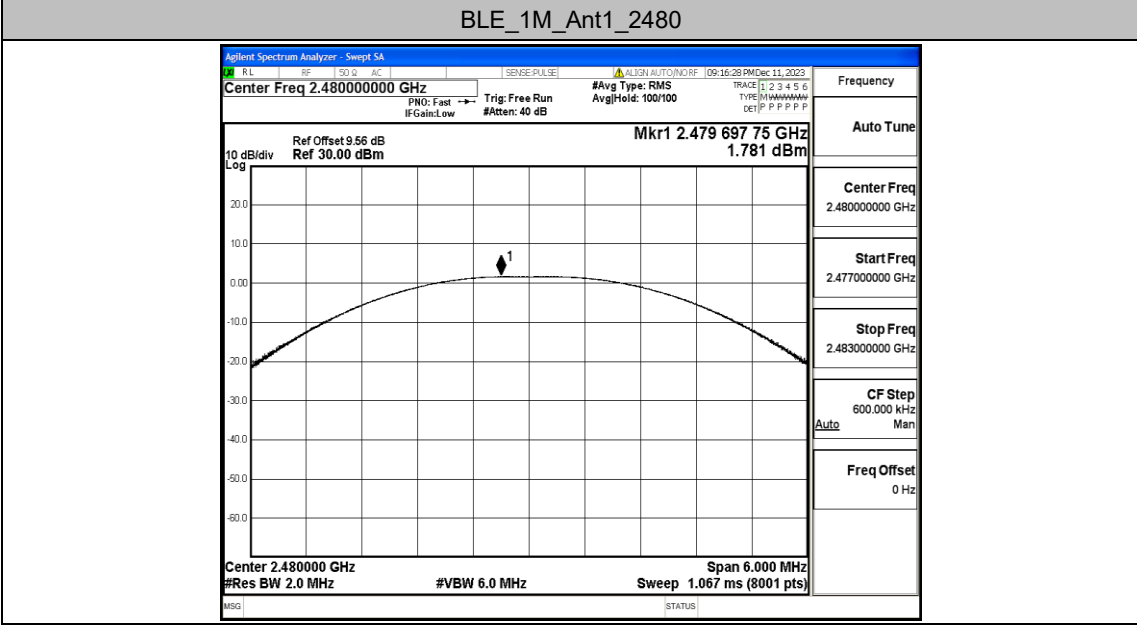
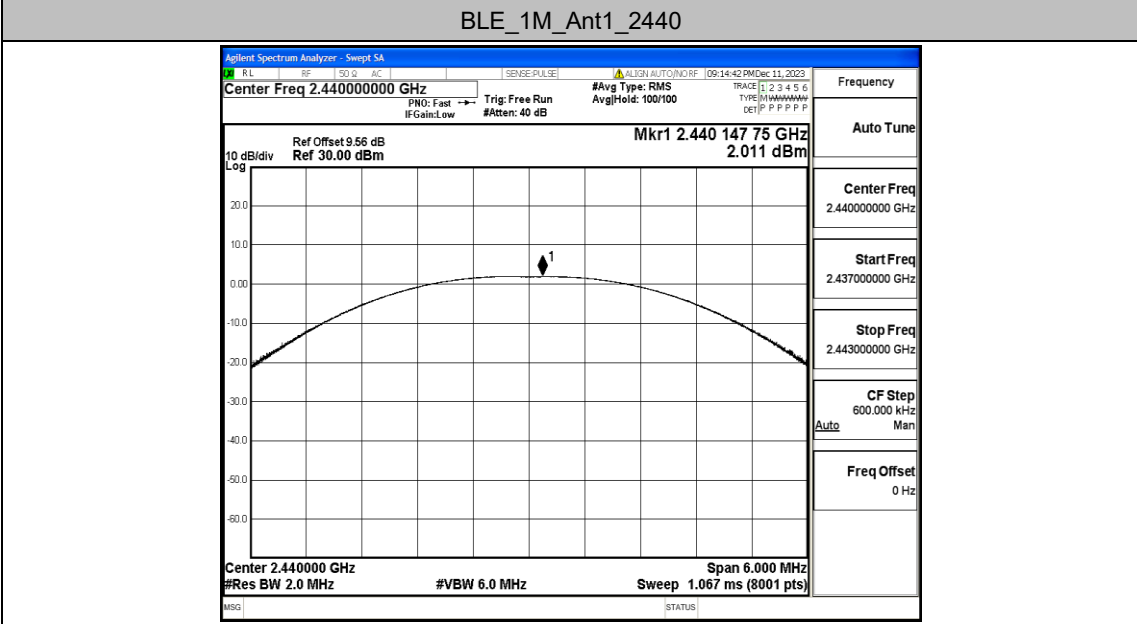
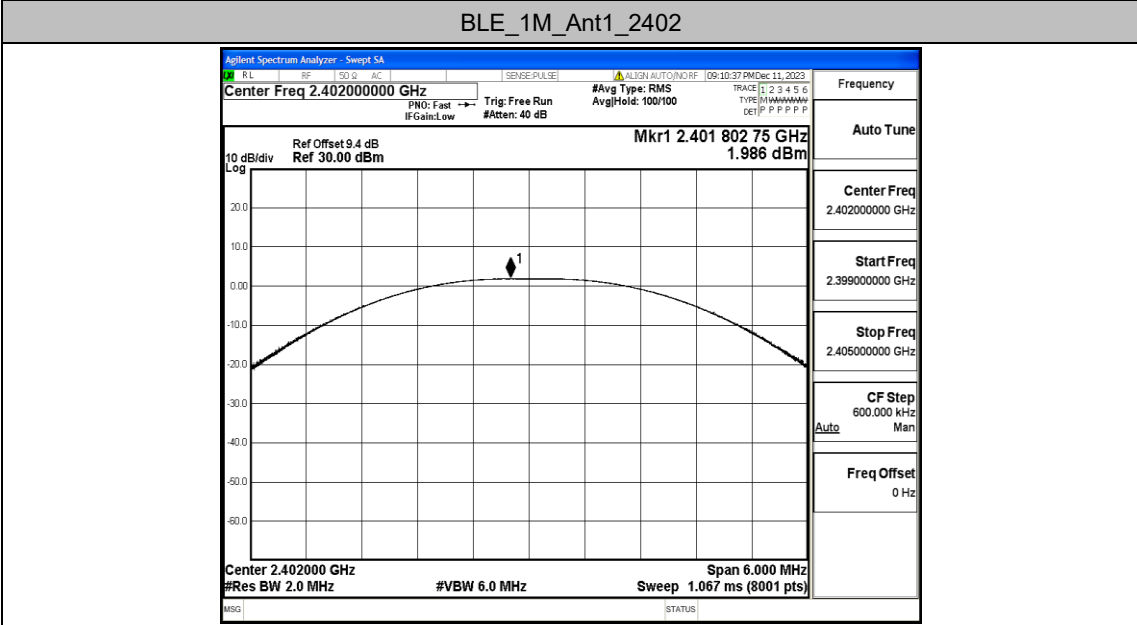


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.99	≤30	PASS
		2440	2.01	≤30	PASS
		2480	1.78	≤30	PASS

Test Graphs

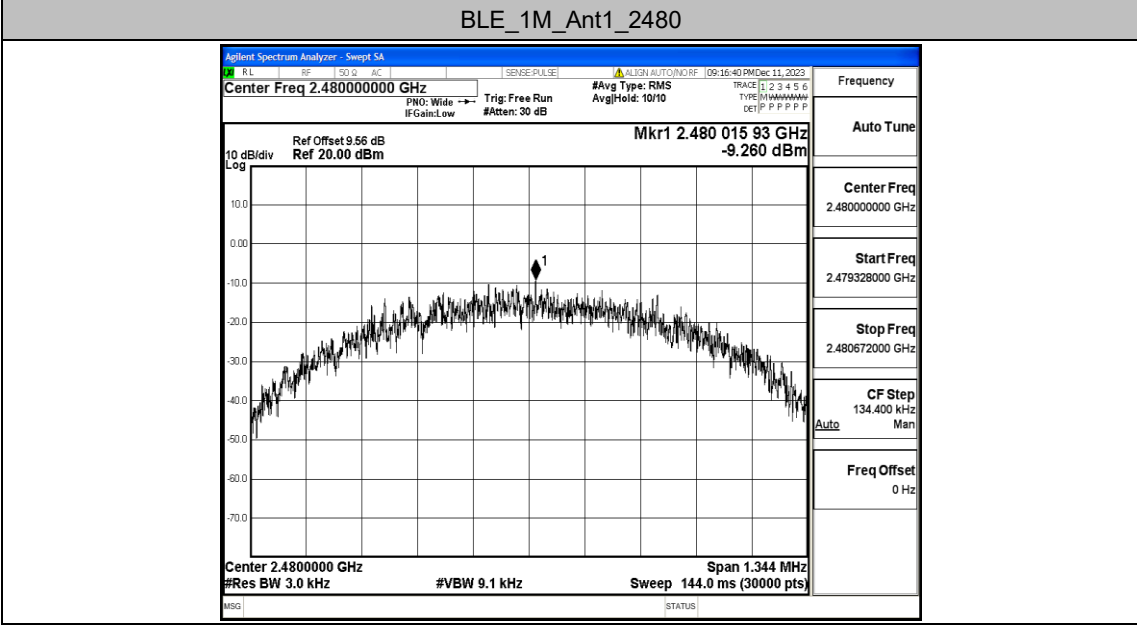
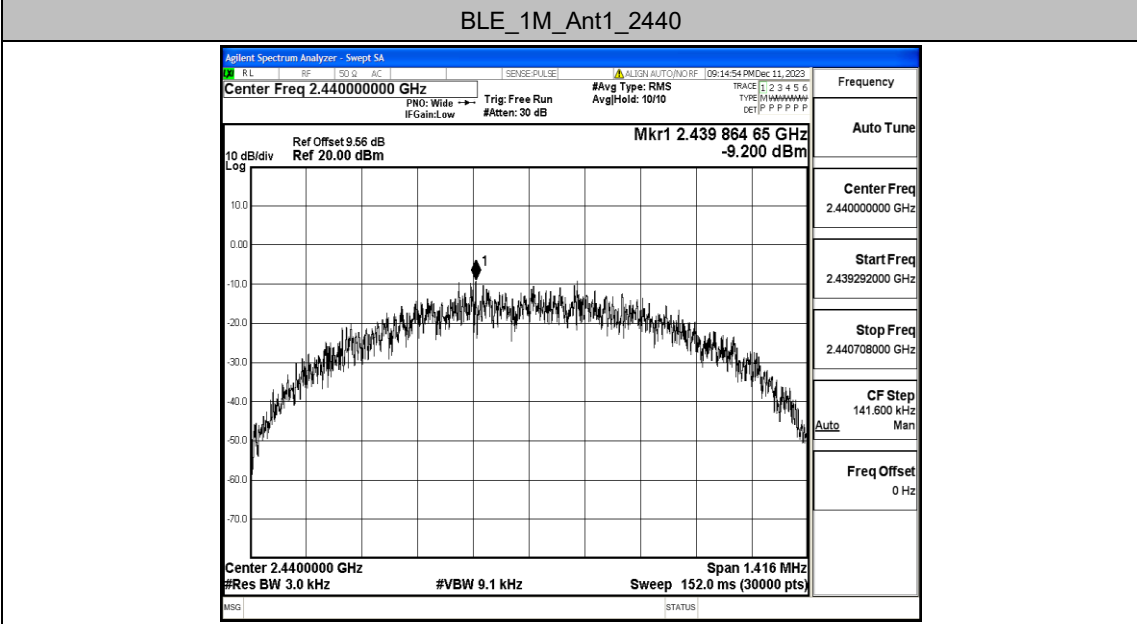
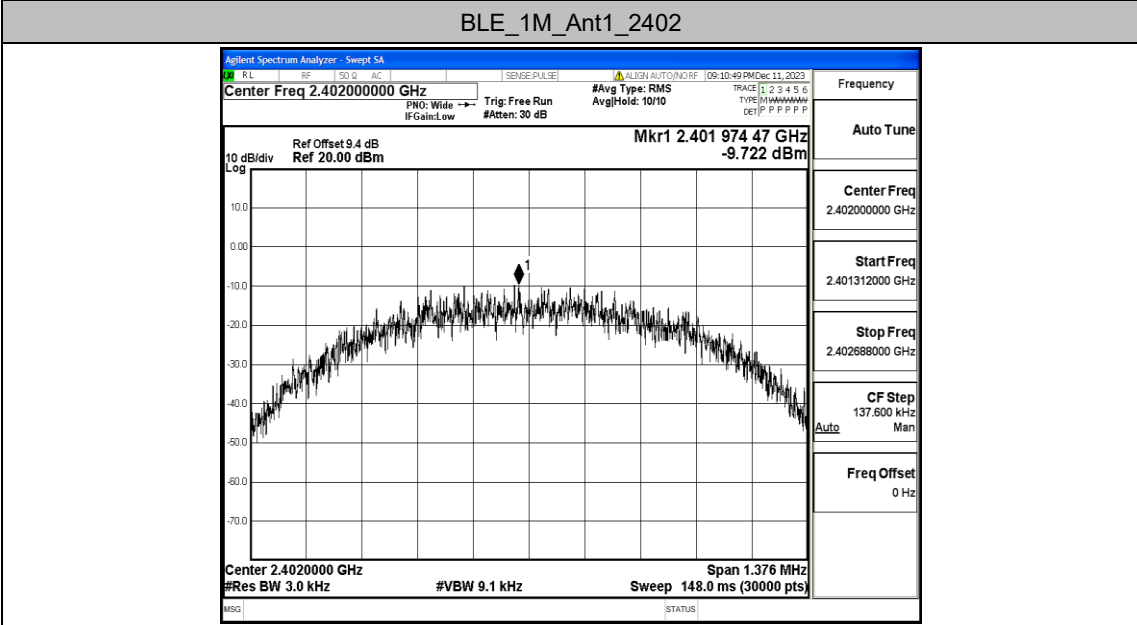


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.72	≤8.00	PASS
		2440	-9.2	≤8.00	PASS
		2480	-9.26	≤8.00	PASS

Test Graphs

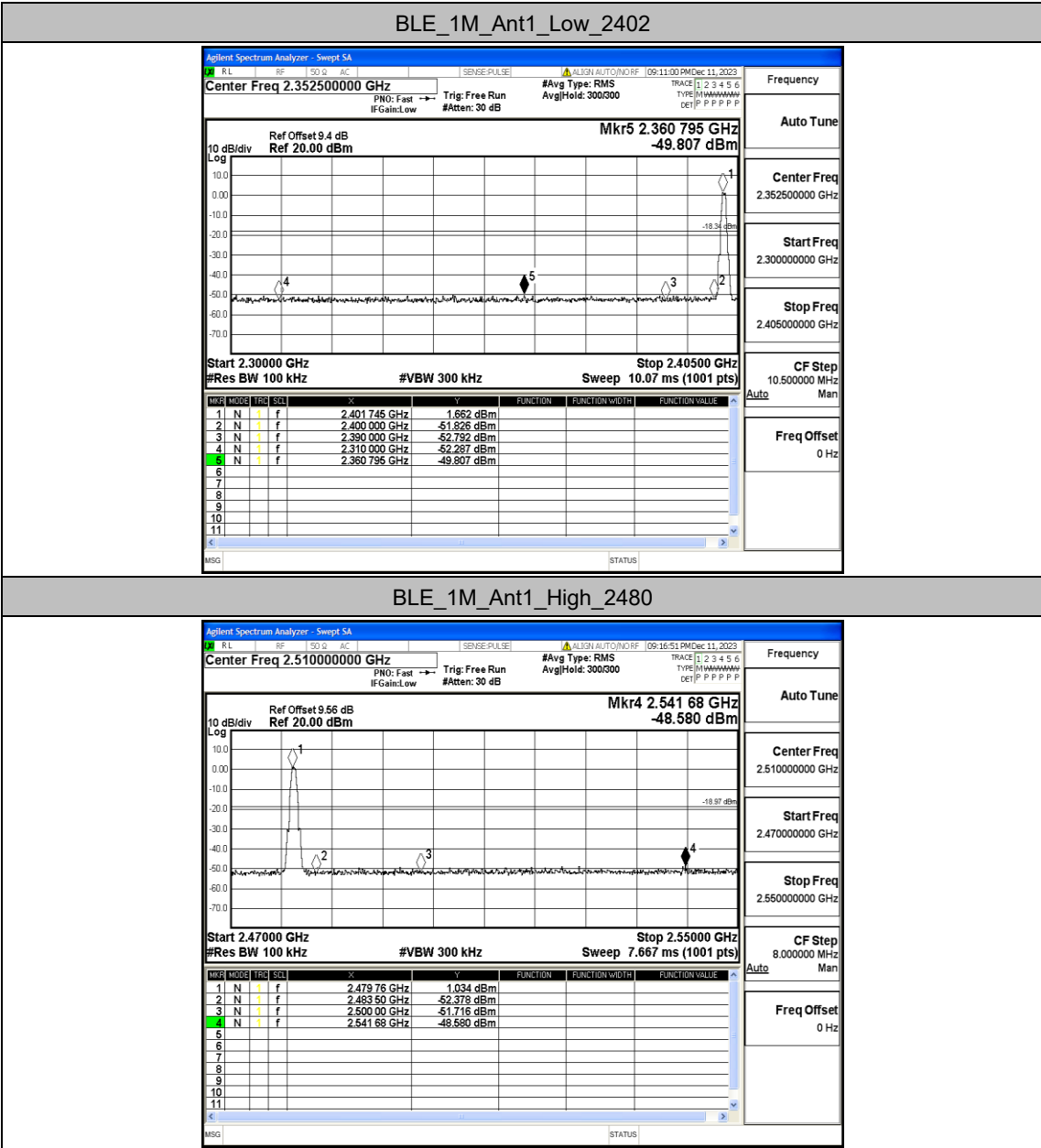


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.66	-49.81	≤-18.34	PASS
		High	2480	1.03	-48.58	≤-18.97	PASS

Test Graphs

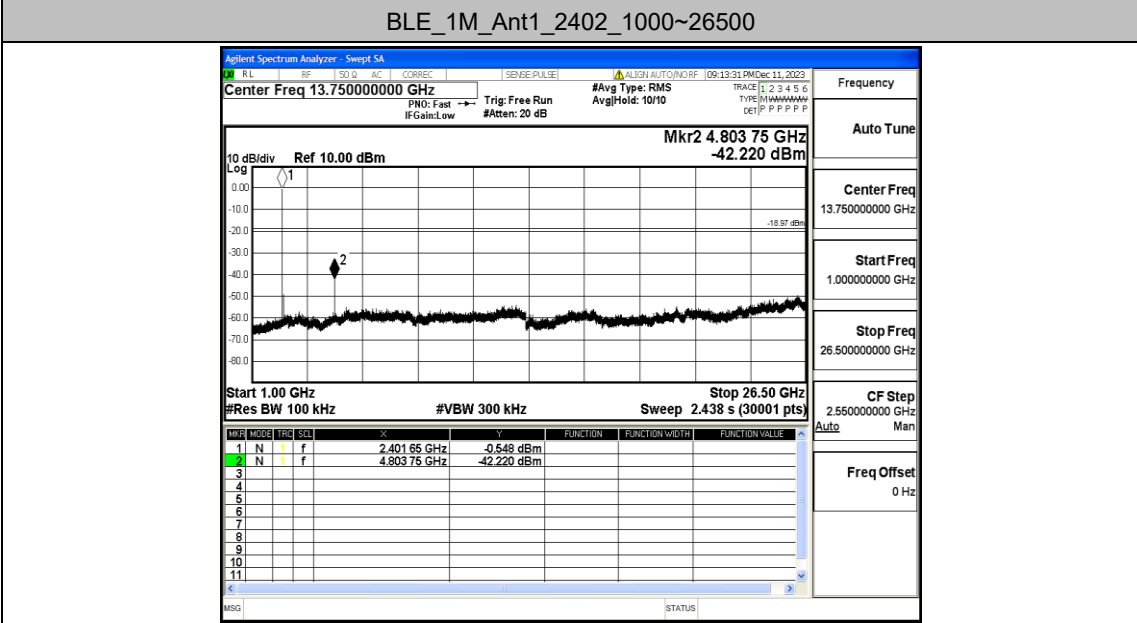
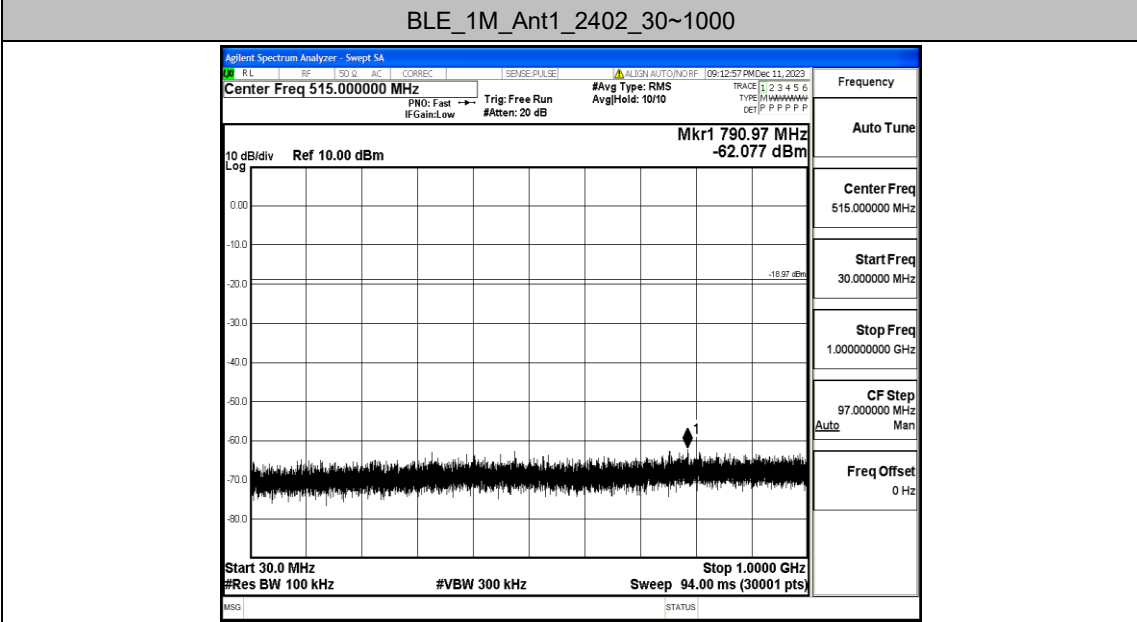
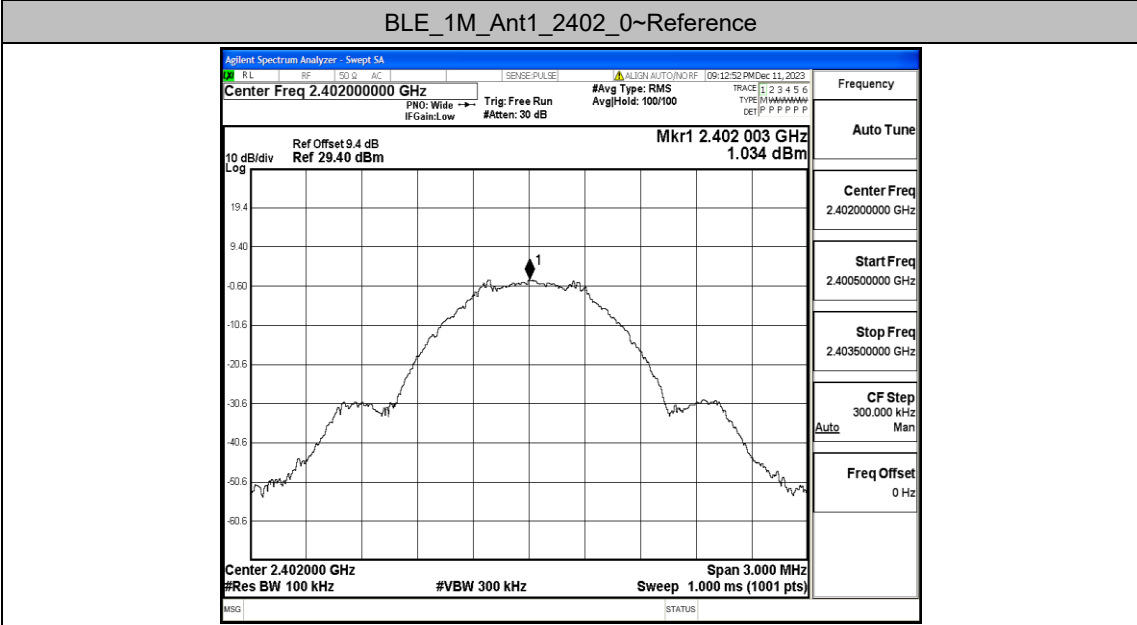


Appendix F: Conducted Spurious Emission

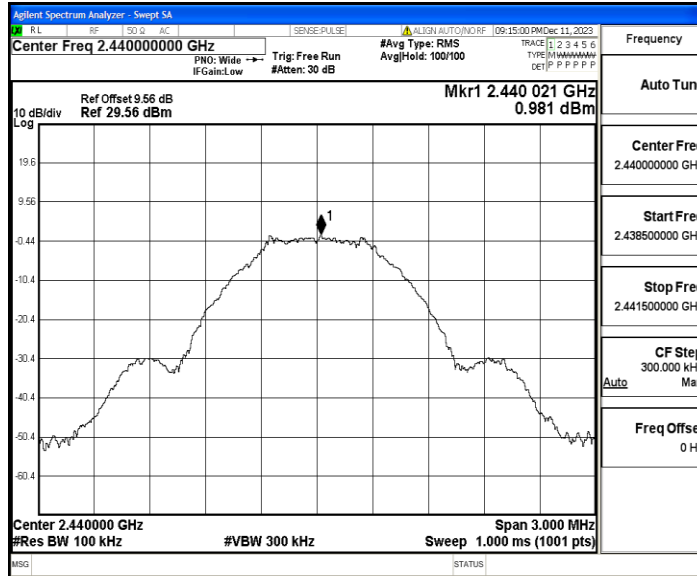
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-62.08	≤-18.97	PASS
			1000~26500	1.03	-42.22	≤-18.97	PASS
		2440	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-62.57	≤-19.02	PASS
			1000~26500	0.98	-44.22	≤-19.02	PASS
		2480	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-62.48	≤-18.84	PASS
			1000~26500	1.16	-44.59	≤-18.84	PASS

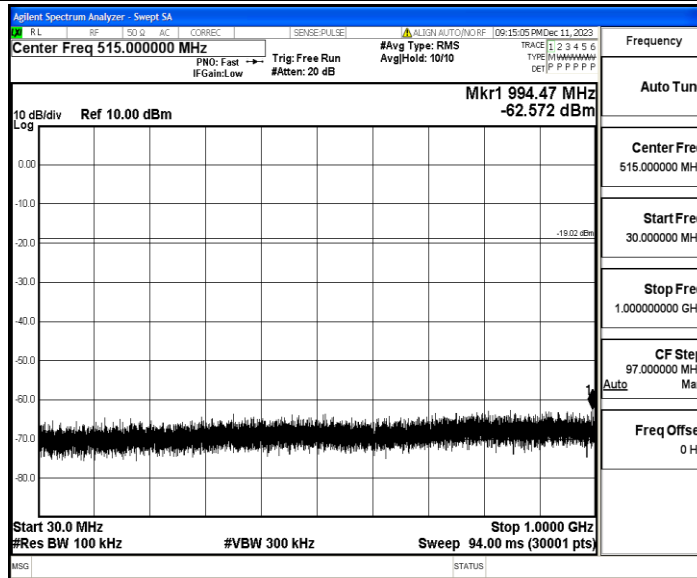
Test Graphs



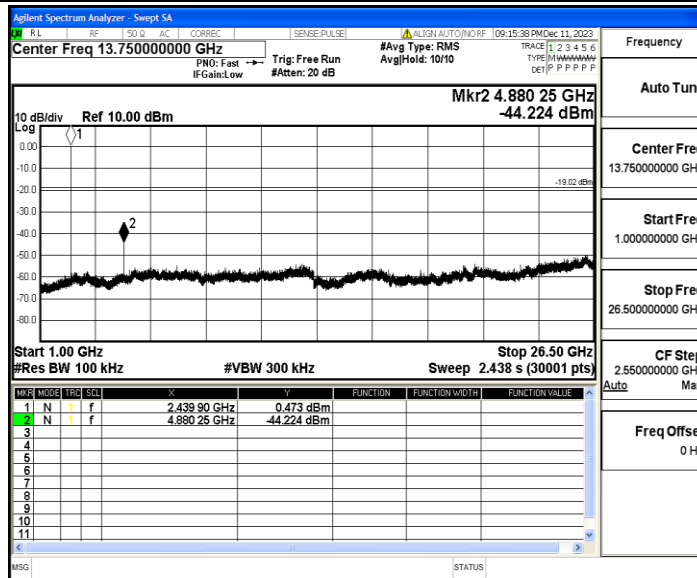
BLE_1M_Ant1_2440_0~Reference



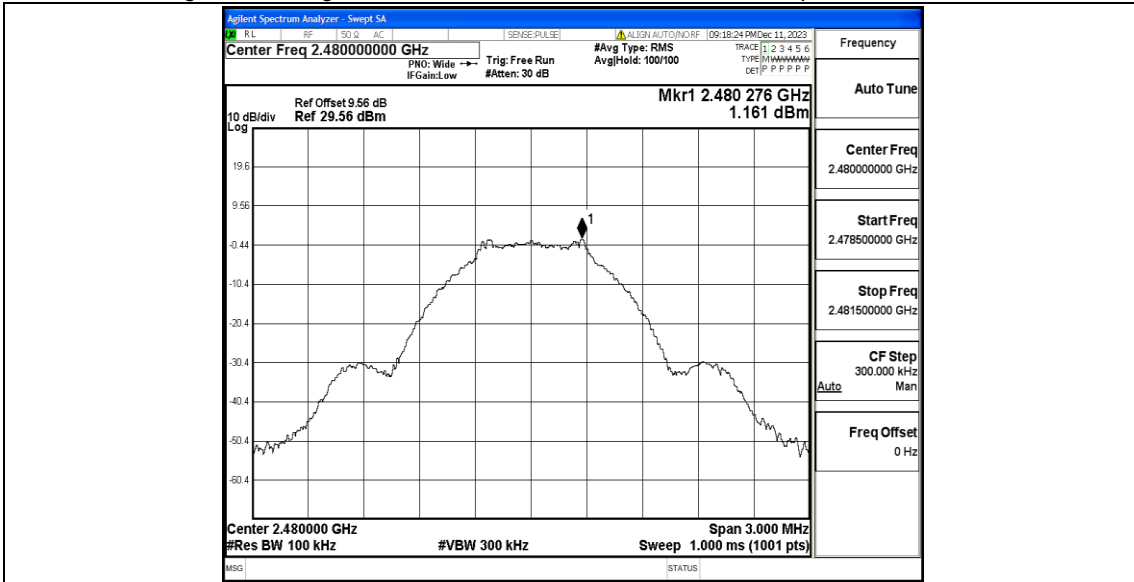
BLE_1M_Ant1_2440_30~1000



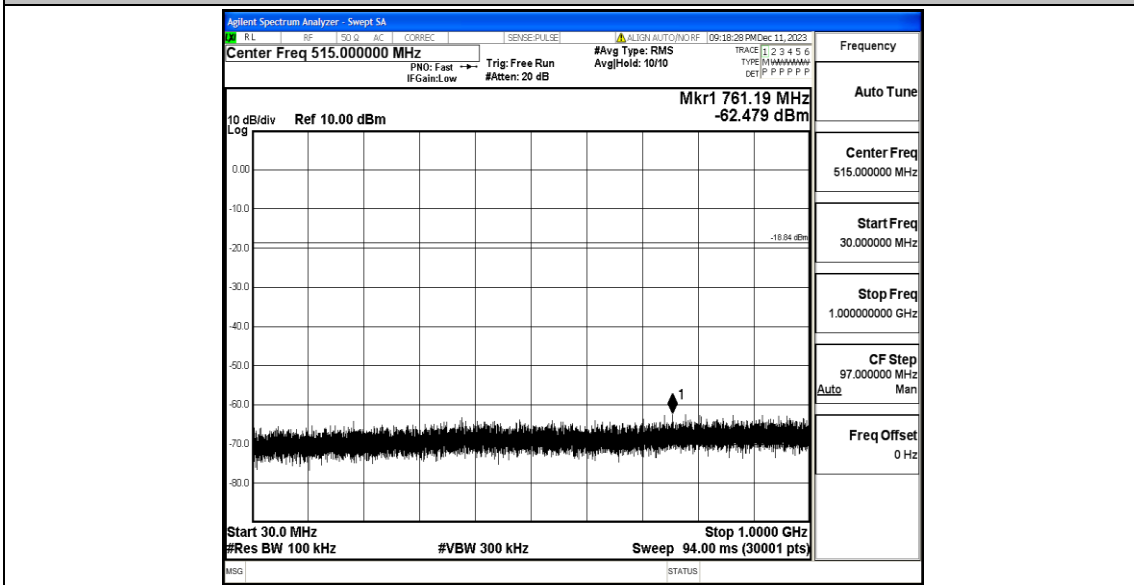
BLE_1M_Ant1_2440_1000~26500



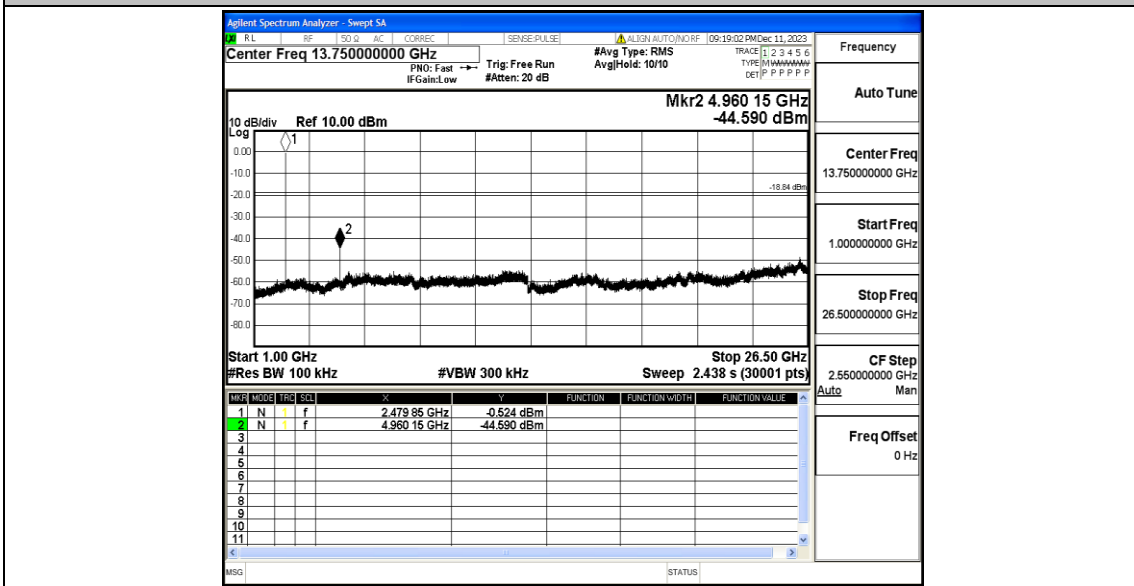
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	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

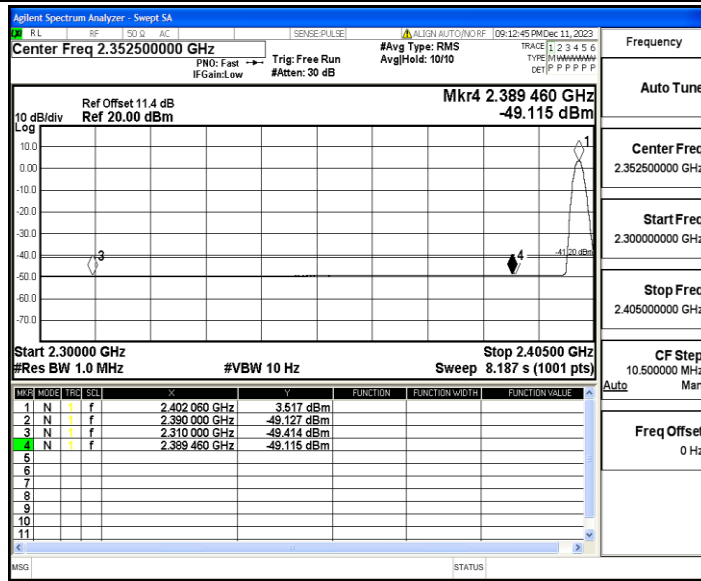
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.41	≤-41.20	PASS
				AV	2389.460	-49.12	≤-41.20	PASS
				AV	2390.000	-49.13	≤-41.20	PASS
				Peak	2310.000	-43.53	≤-21.20	PASS
				Peak	2346.410	-39.45	≤-21.20	PASS
				Peak	2390.000	-44	≤-21.20	PASS
		High	2480	AV	2483.500	-47.93	≤-41.20	PASS
				AV	2483.520	-47.93	≤-41.20	PASS
				AV	2500.000	-48.39	≤-41.20	PASS
				Peak	2483.500	-41.92	≤-21.20	PASS
				Peak	2497.760	-37.75	≤-21.20	PASS
				Peak	2500.000	-41.08	≤-21.20	PASS

Note:

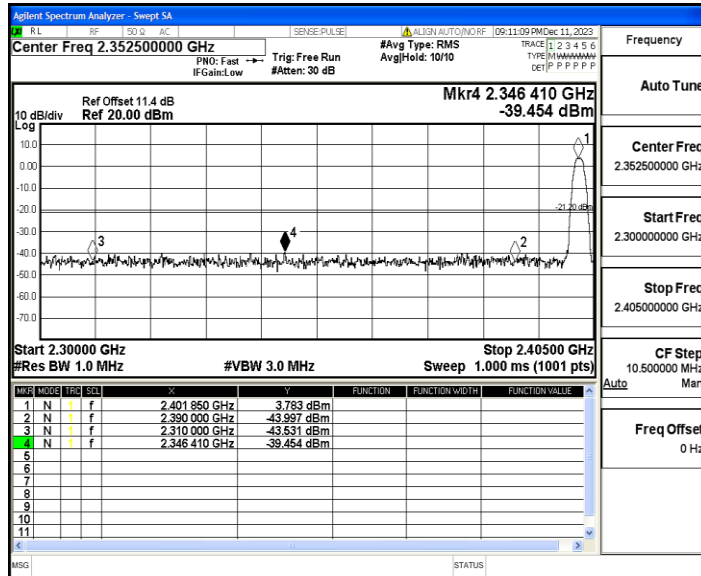
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

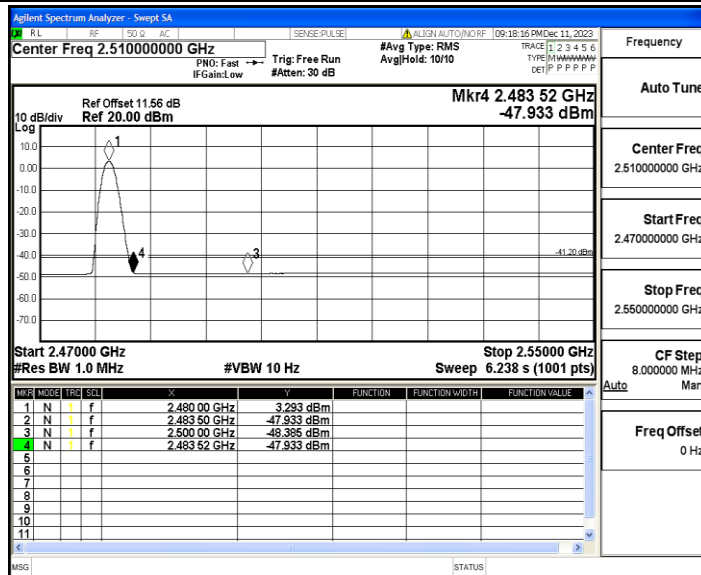
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

