

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

Product Name: Smart Watch

Trade Mark: N/A

Test Model: KW-B05

FCC ID: 2A047-KW-B05

Environmental Conditions

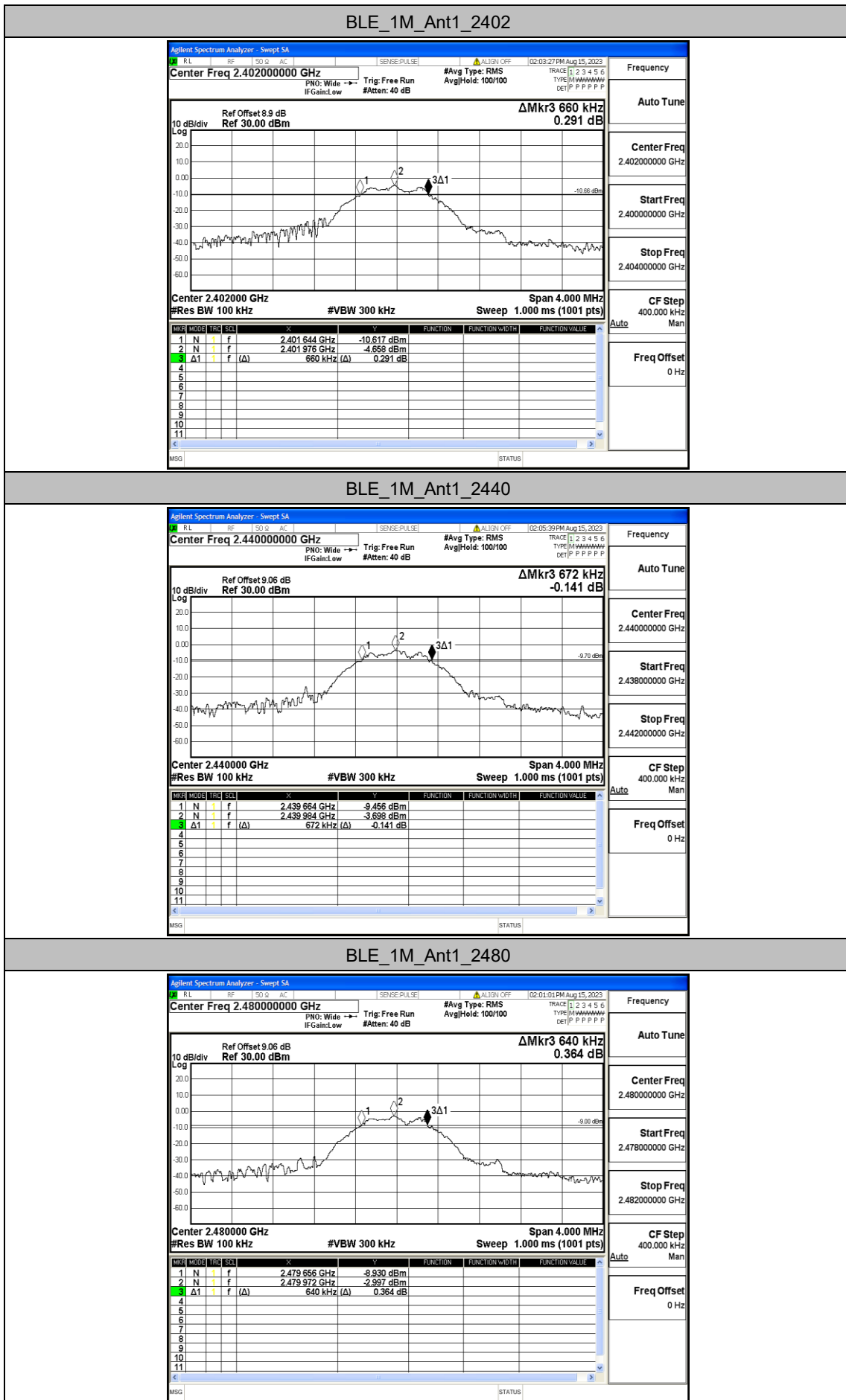
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.644	2402.304	0.5	PASS
		2440	0.672	2439.664	2440.336	0.5	PASS
		2480	0.640	2479.656	2480.296	0.5	PASS

Test Graphs

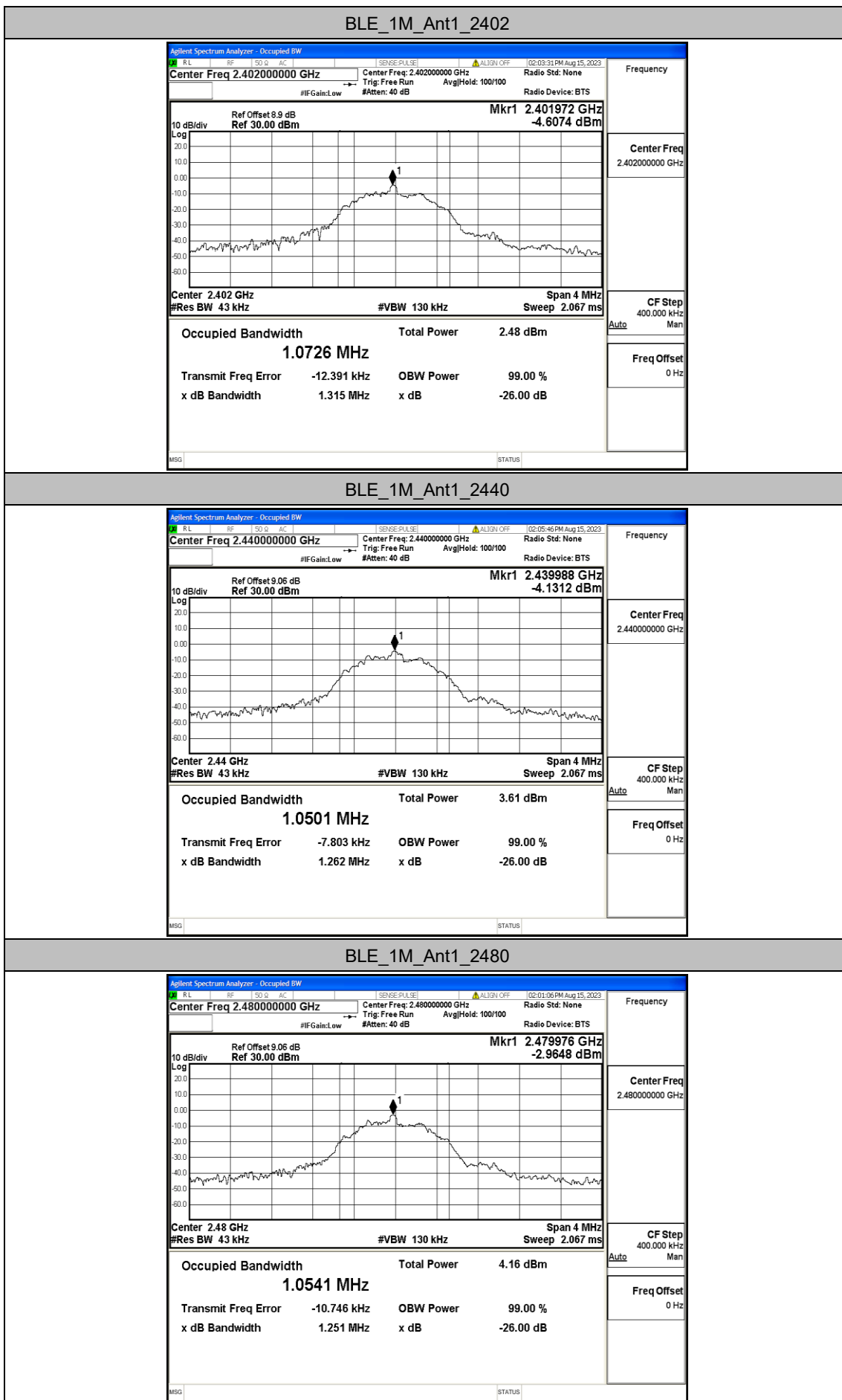


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0726	2401.4513	2402.5239	---	---
		2440	1.0501	2439.4672	2440.5173	---	---
		2480	1.0541	2479.4622	2480.5163	---	---

Test Graphs

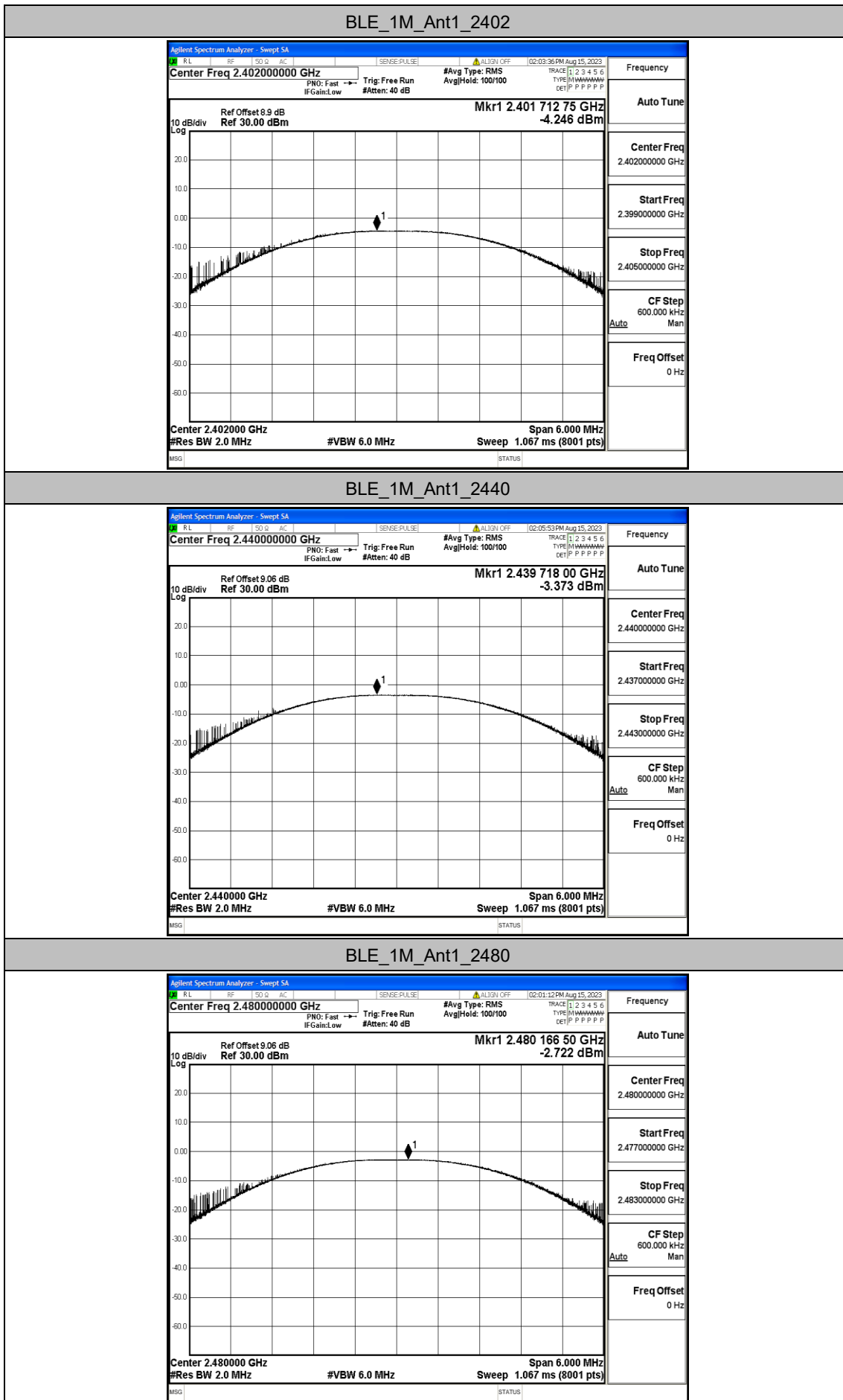


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.25	≤30	PASS
		2440	-3.37	≤30	PASS
		2480	-2.72	≤30	PASS

Test Graphs

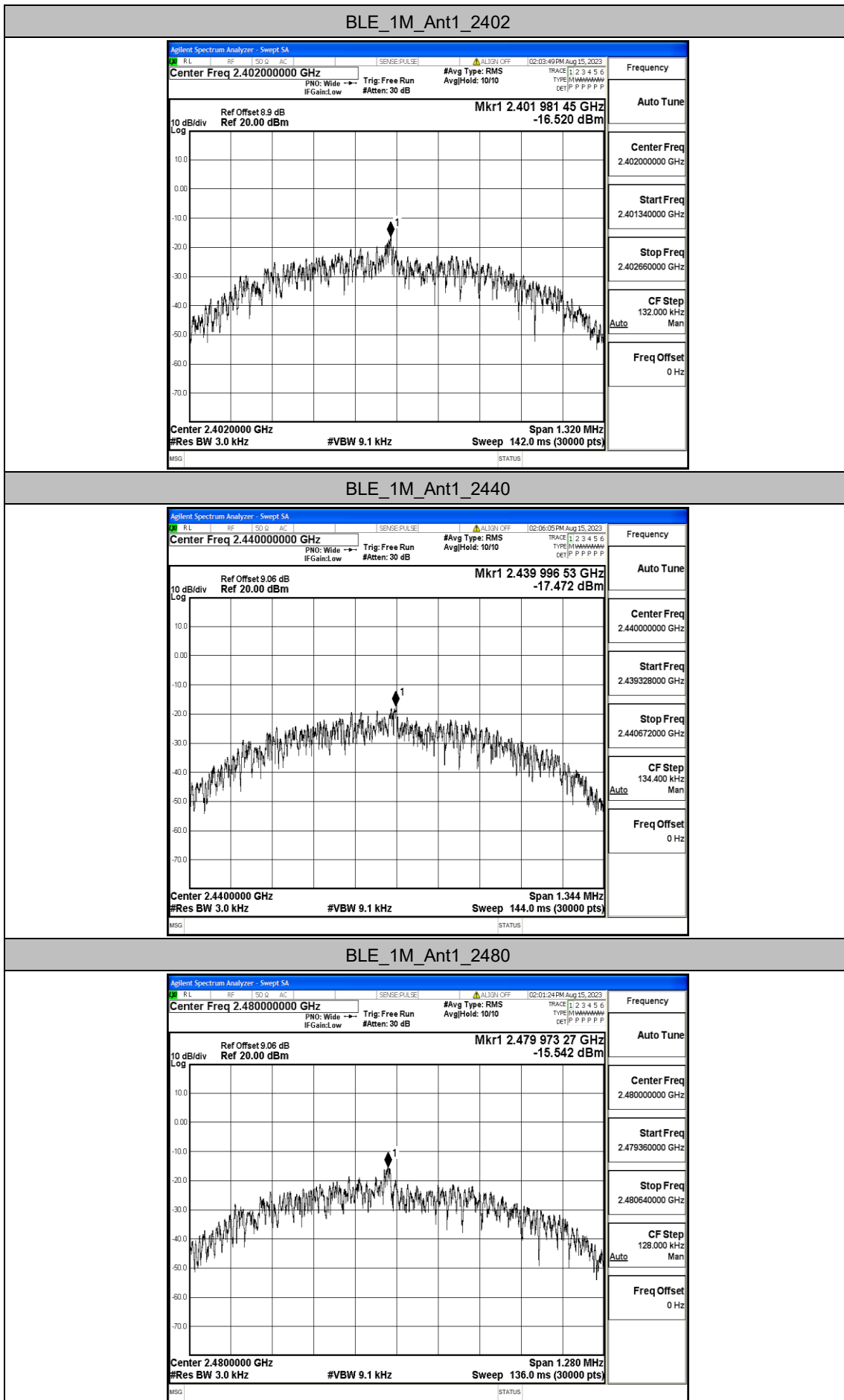


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.52	≤8.00	PASS
		2440	-17.47	≤8.00	PASS
		2480	-15.54	≤8.00	PASS

Test Graphs

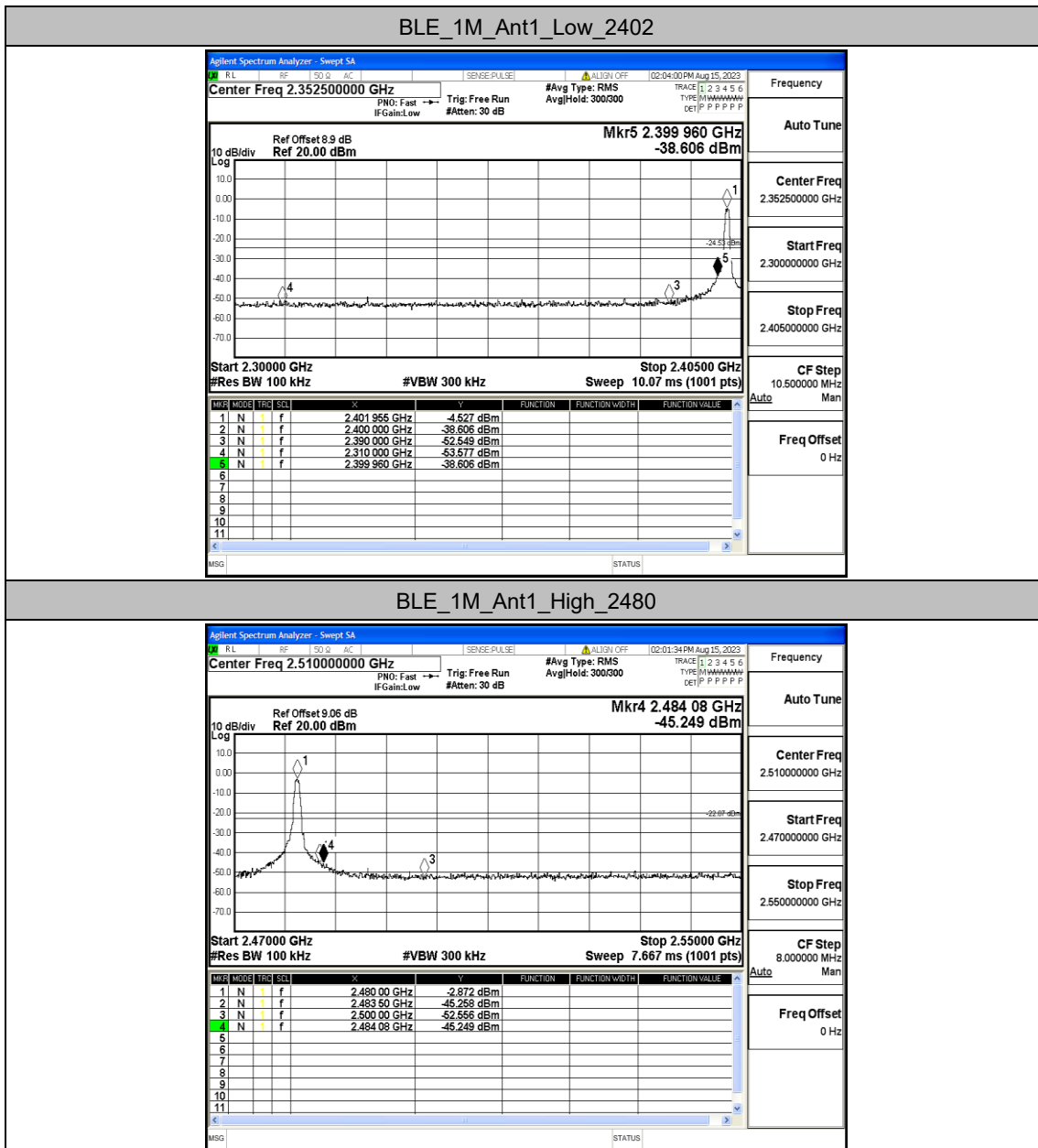


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.53	-38.61	≤-24.53	PASS
		High	2480	-2.87	-45.25	≤-22.87	PASS

Test Graphs

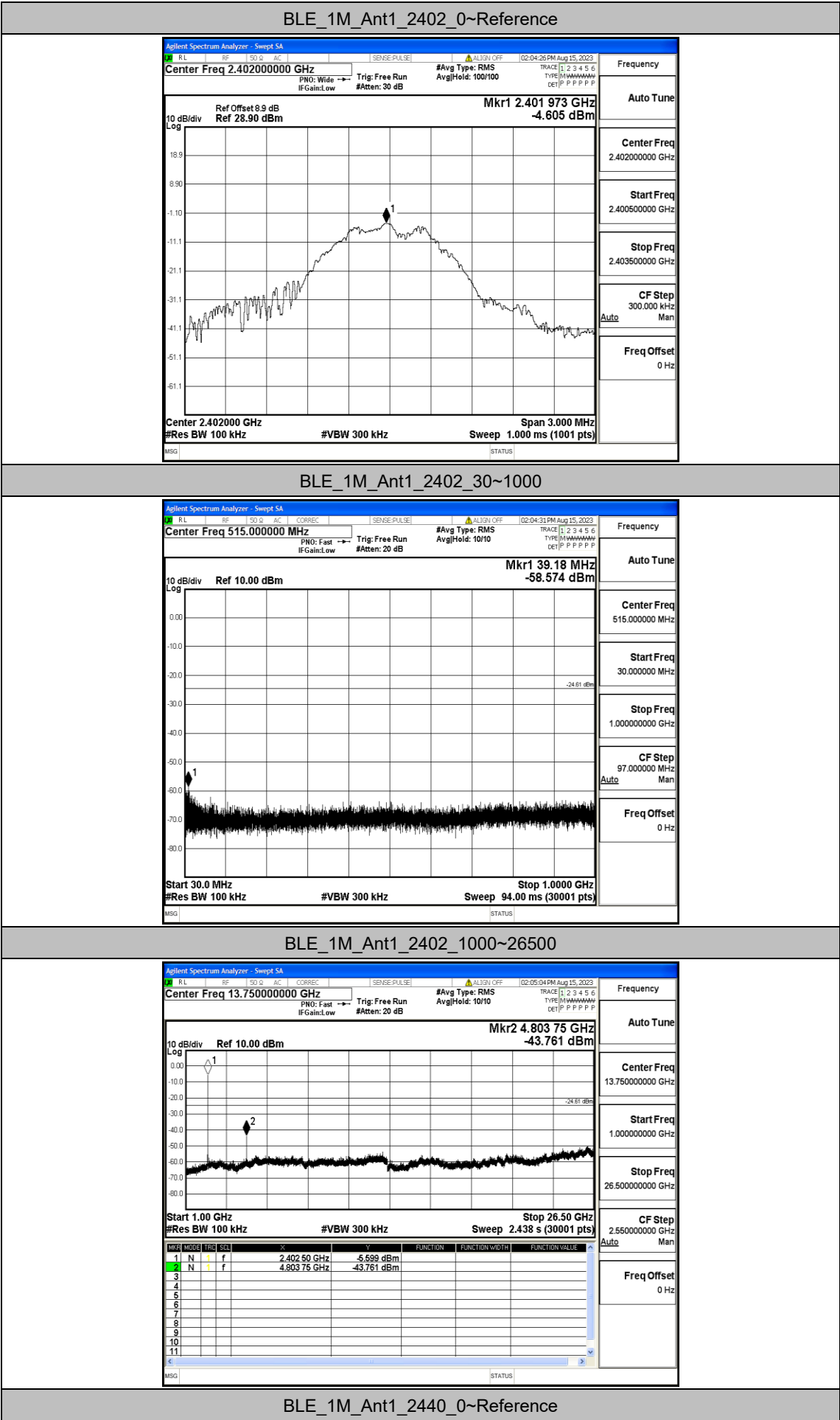


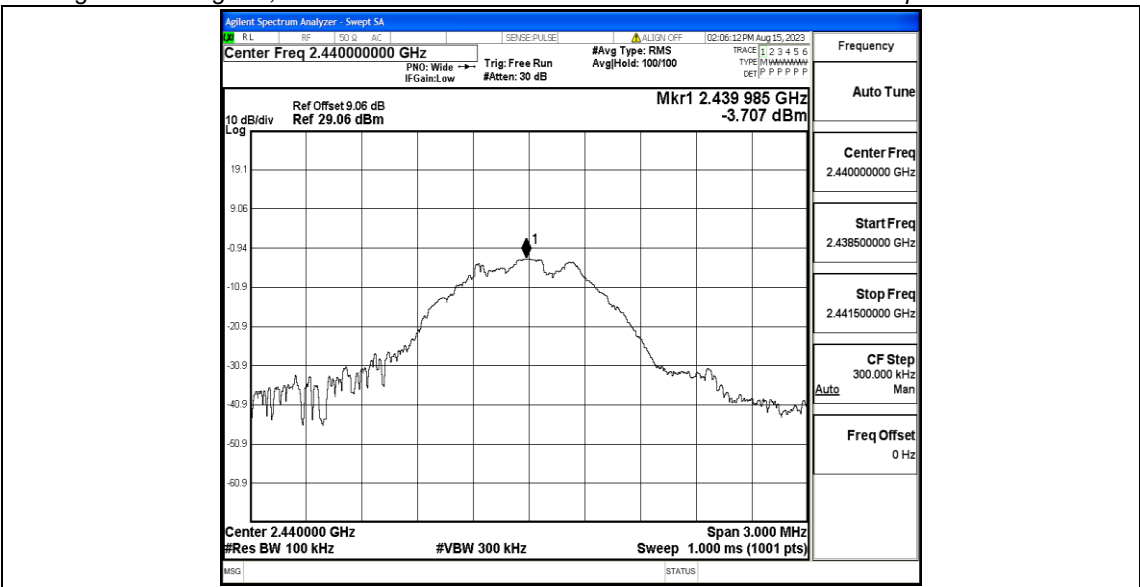
Appendix F: Conducted Spurious Emission

Test Result

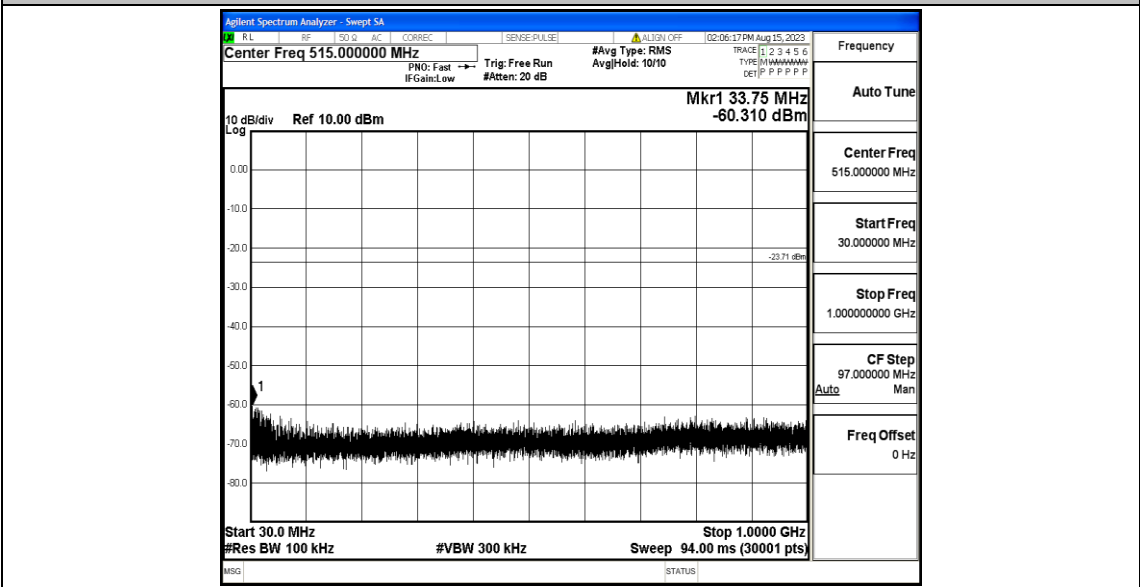
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-58.57	≤-24.61	PASS
			1000~26500	-4.61	-43.76	≤-24.61	PASS
		2440	Reference	-3.71	-3.71	---	PASS
			30~1000	-3.71	-60.31	≤-23.71	PASS
			1000~26500	-3.71	-44.3	≤-23.71	PASS
		2480	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-59.4	≤-22.95	PASS
			1000~26500	-2.95	-44.44	≤-22.95	PASS

Test Graphs

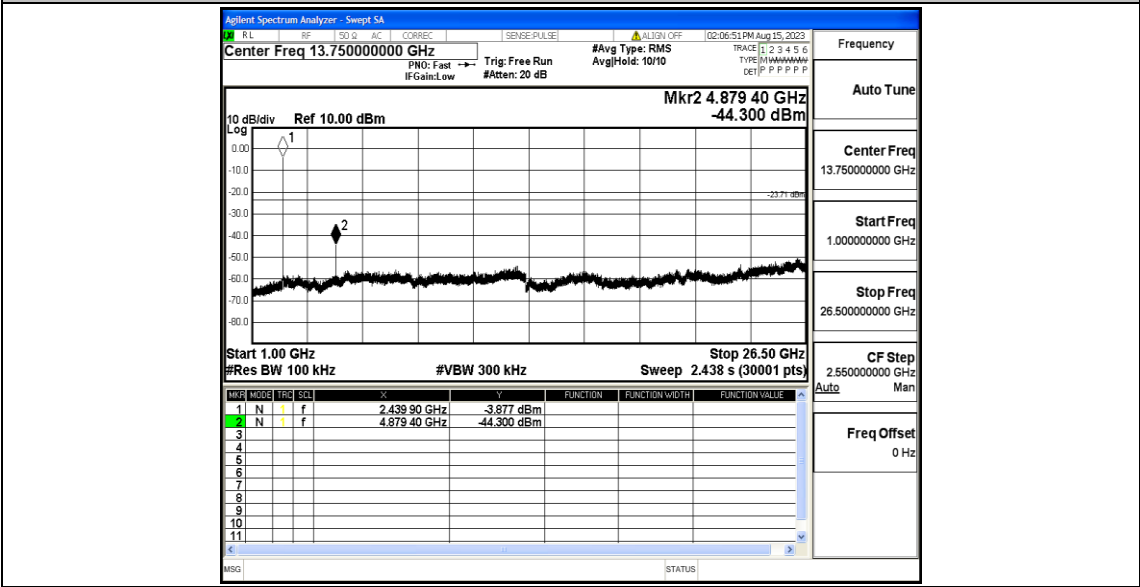




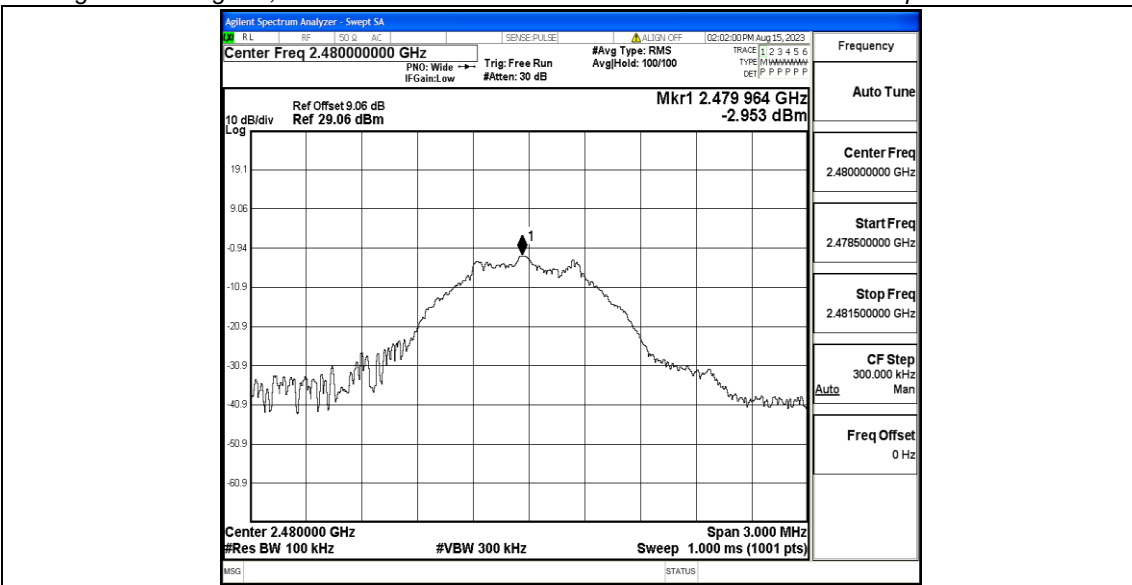
BLE_1M_Ant1_2440_30~1000



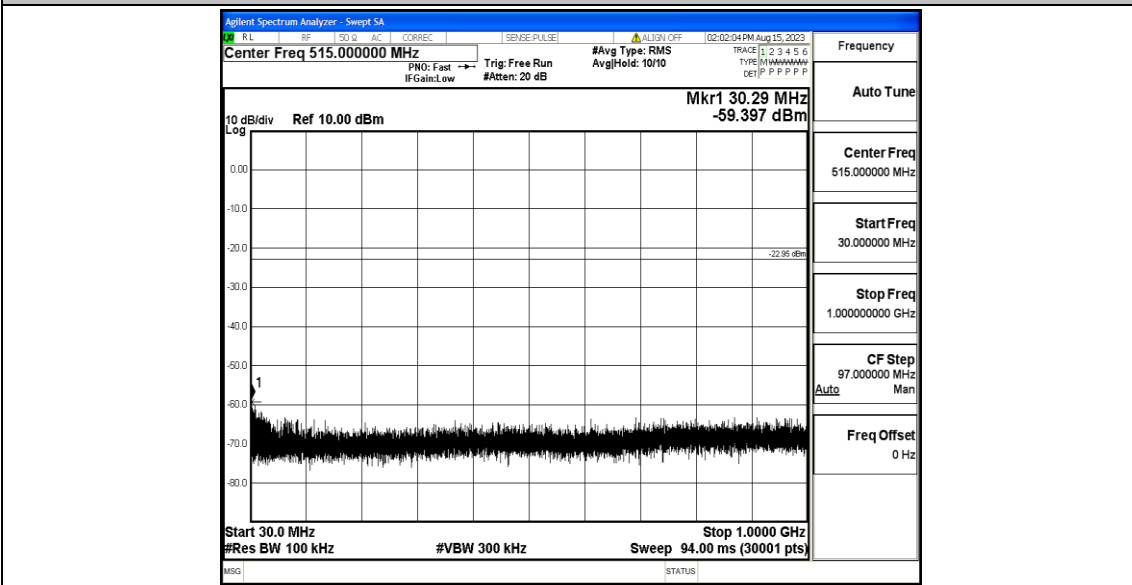
BLE_1M_Ant1_2440_1000~26500



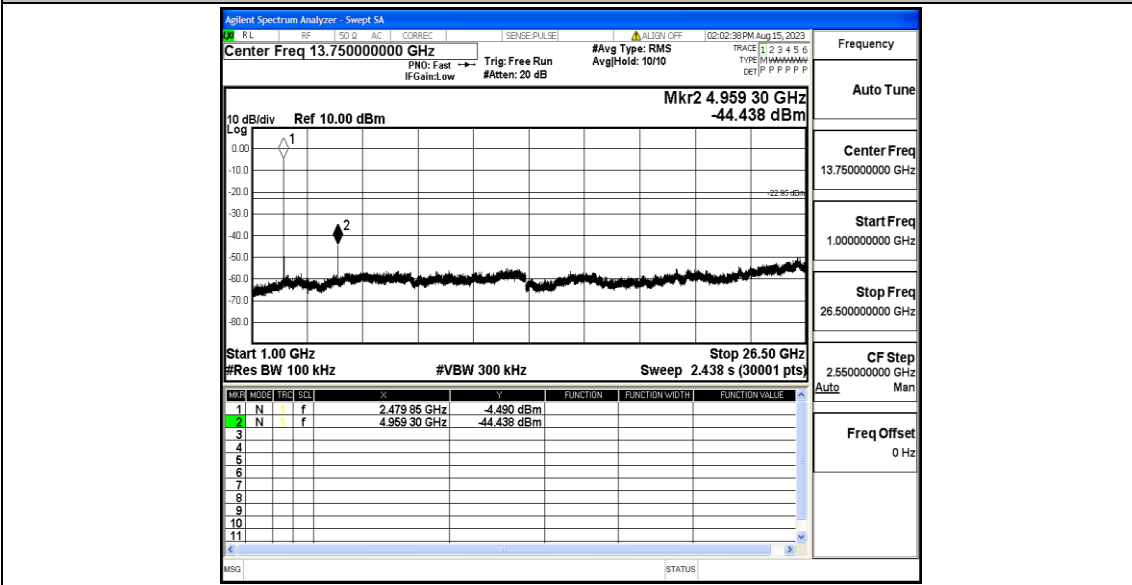
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

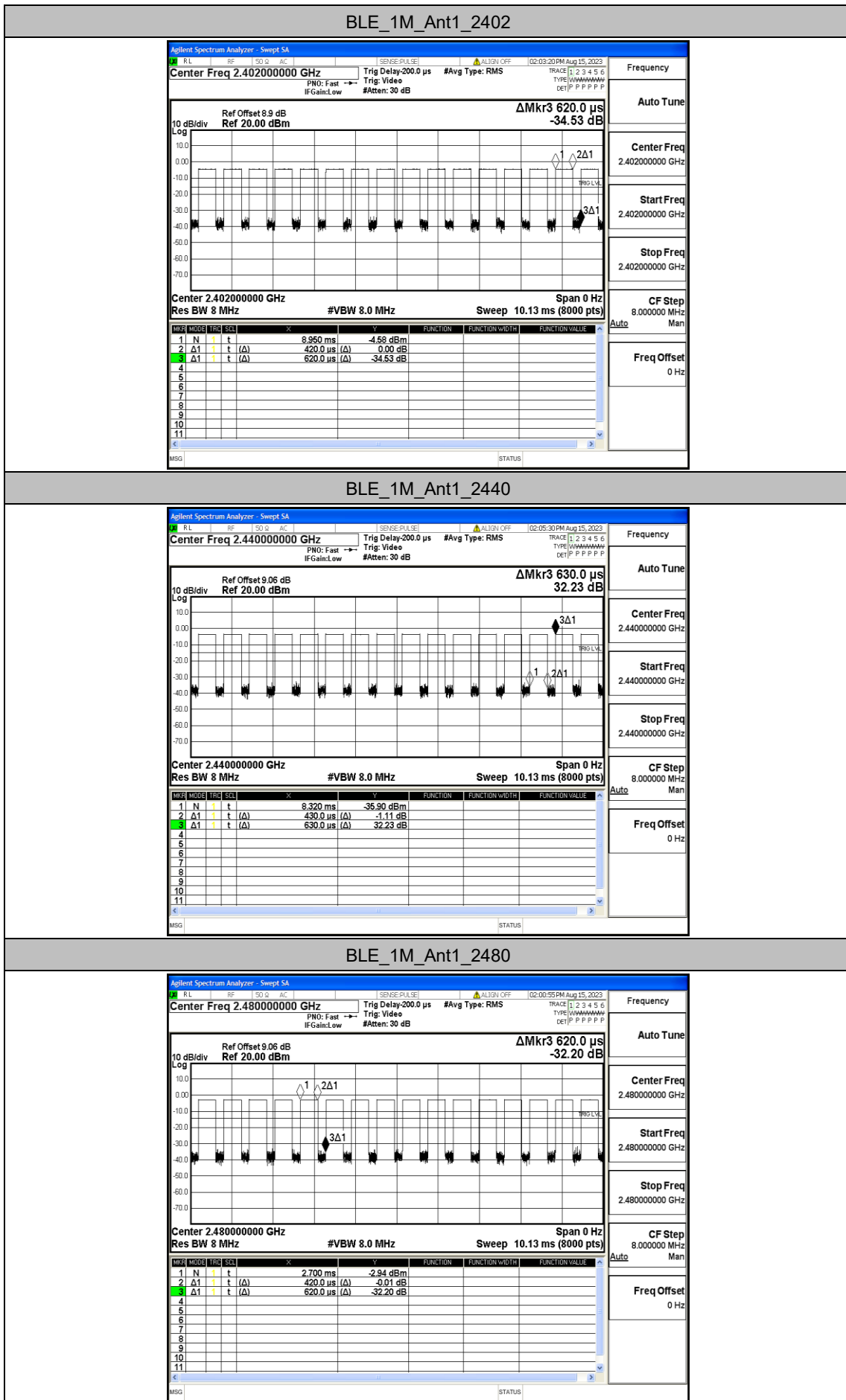


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.42	0.62	67.74	2.38
		2440	0.43	0.63	68.25	2.33
		2480	0.42	0.62	67.74	2.38

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	-59.04	≤-41.20	PASS
				AV	2389.985	-53.6	≤-41.20	PASS
				AV	2390.000	-53.6	≤-41.20	PASS
				Peak	2310.000	-51.44	≤-21.20	PASS
				Peak	2389.355	-36.1	≤-21.20	PASS
				Peak	2390.000	-52.1	≤-21.20	PASS
		High	2480	AV	2483.500	-43.85	≤-41.20	PASS
				AV	2483.520	-43.85	≤-41.20	PASS
				AV	2500.000	-56.81	≤-41.20	PASS
				Peak	2483.500	-26.22	≤-21.20	PASS
				Peak	2483.520	-26.22	≤-21.20	PASS
				Peak	2500.000	-53.05	≤-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

