

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

Product Name: Smart Watch

Trade Mark: Haylou

Test Model: HAYLOU RS4 Max

FCC ID: 2AMQ6-LS17

Environmental Conditions

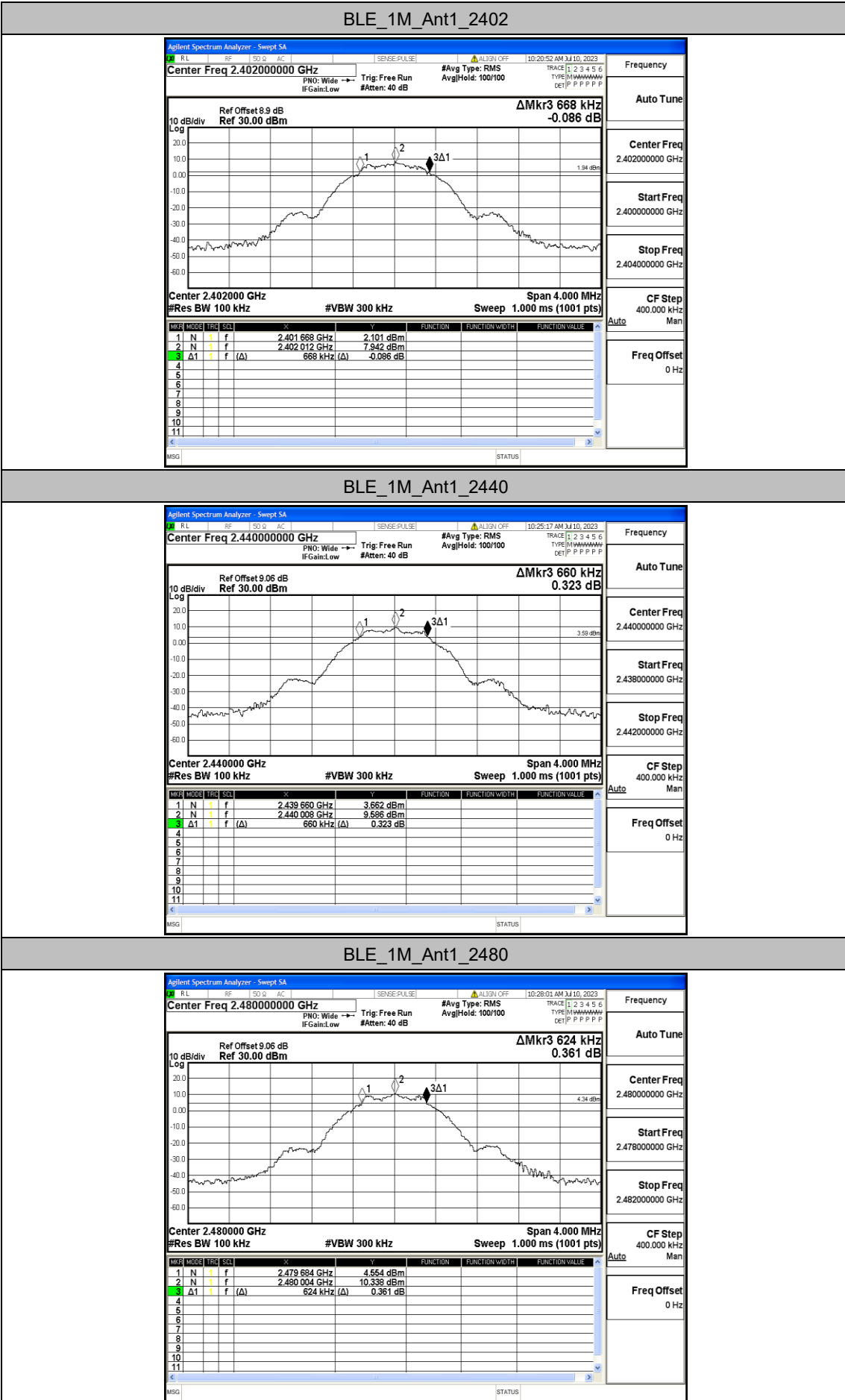
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.660	2439.660	2440.320	0.5	PASS
		2480	0.624	2479.684	2480.308	0.5	PASS

Test Graphs

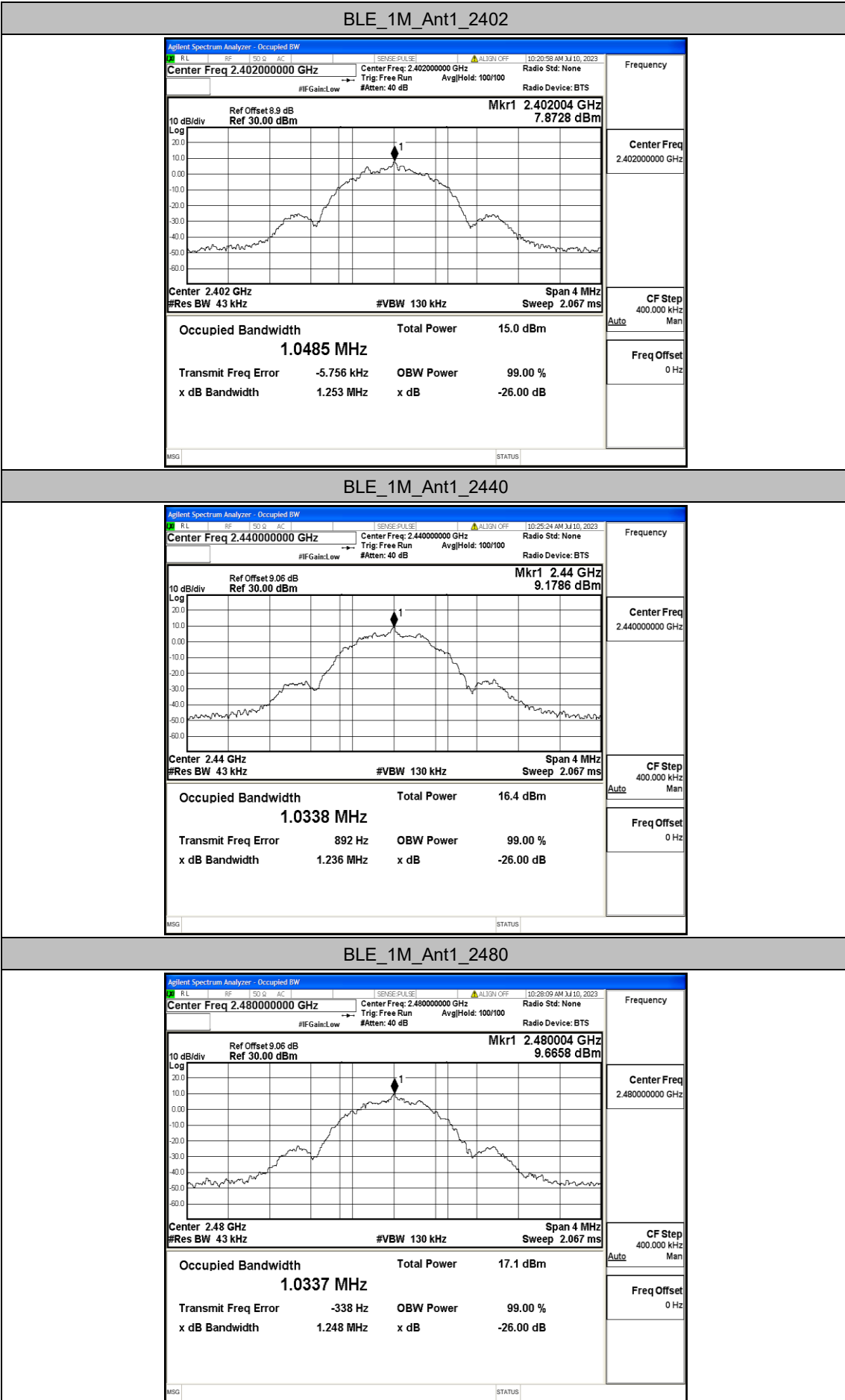


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0485	2401.4700	2402.5185	---	---
		2440	1.0338	2439.4840	2440.5178	---	---
		2480	1.0337	2479.4828	2480.5165	---	---

Test Graphs

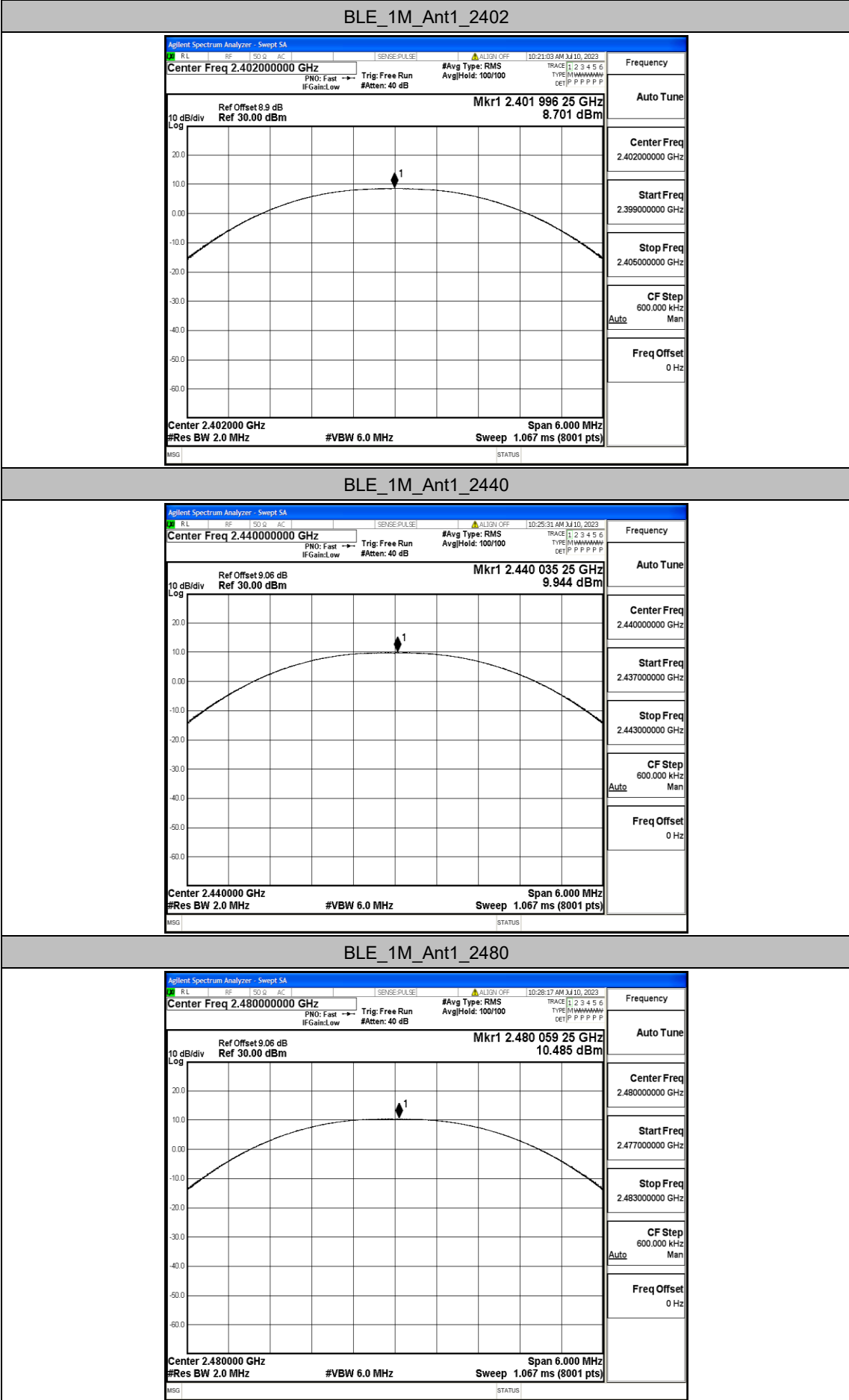


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.7	≤30	PASS
		2440	9.94	≤30	PASS
		2480	10.49	≤30	PASS

Test Graphs

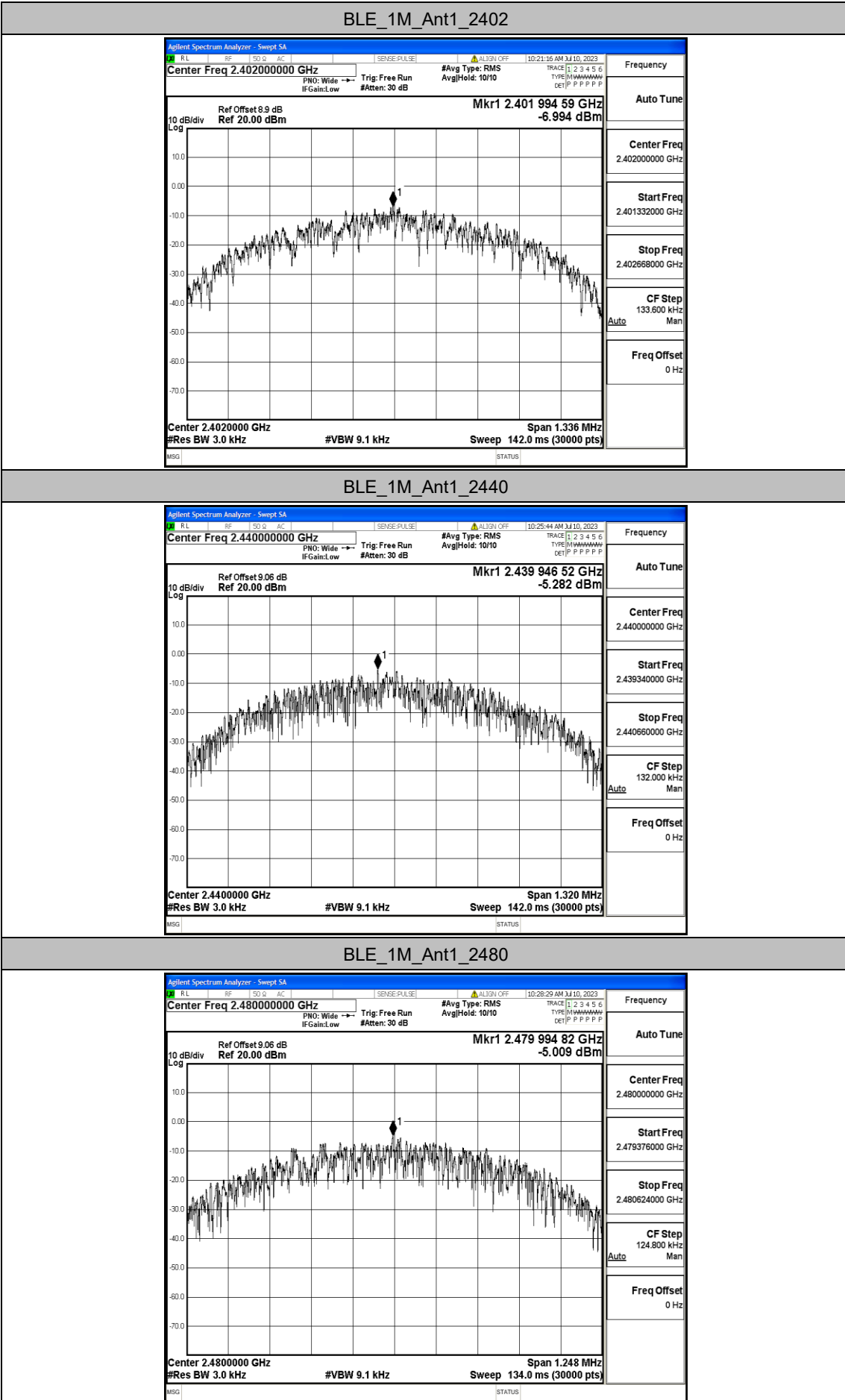


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.99	≤8.00	PASS
		2440	-5.28	≤8.00	PASS
		2480	-5.01	≤8.00	PASS

Test Graphs

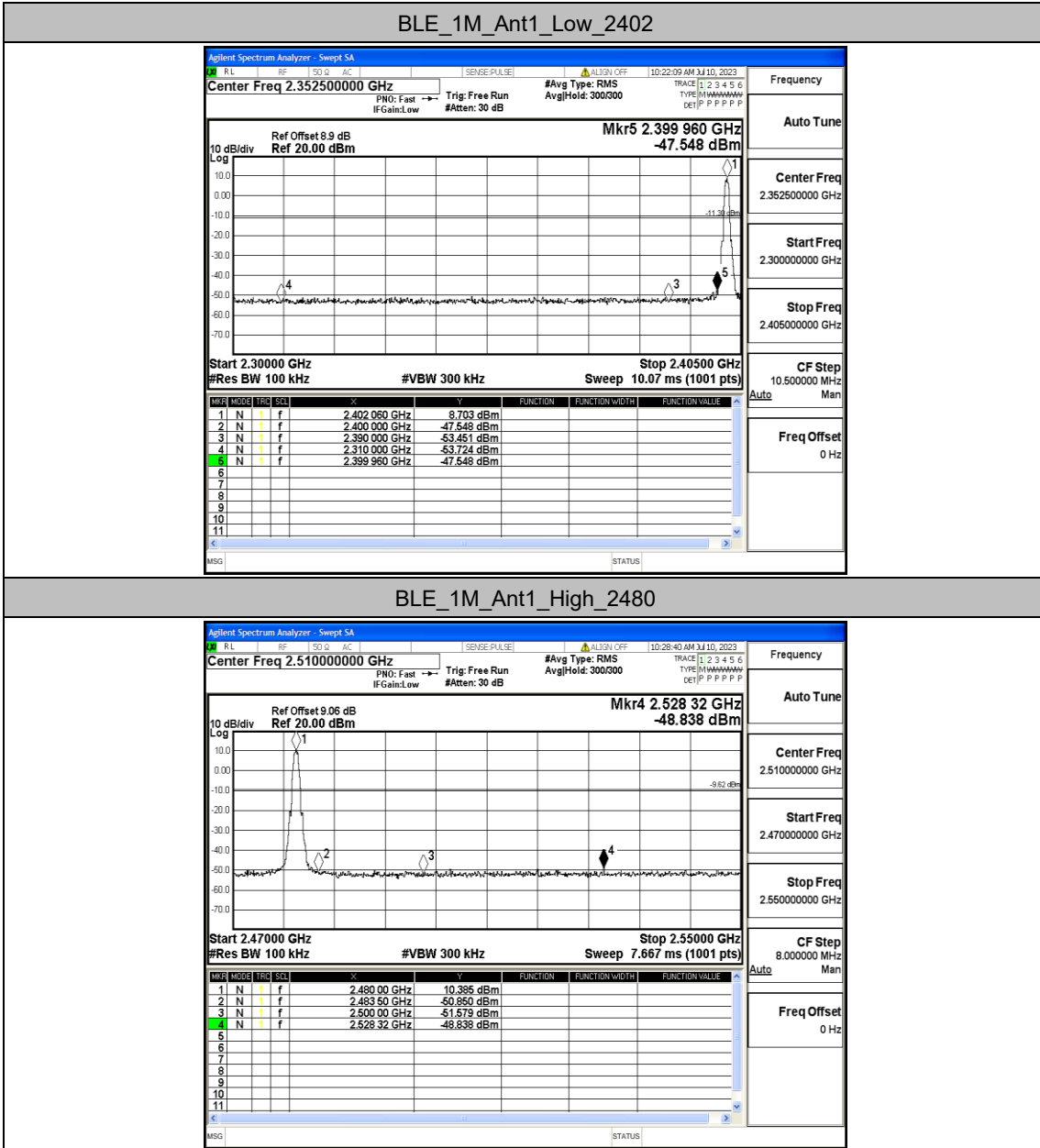


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	8.70	-47.55	≤-11.3	PASS
		High	2480	10.39	-48.84	≤-9.62	PASS

Test Graphs

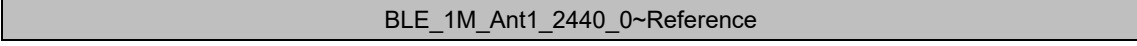
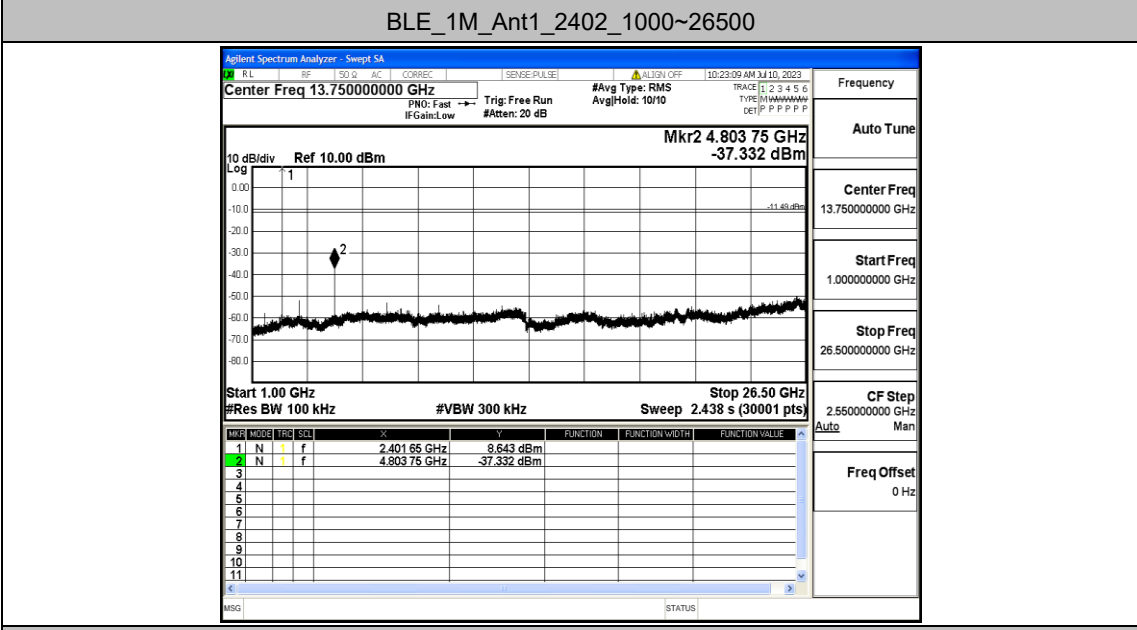
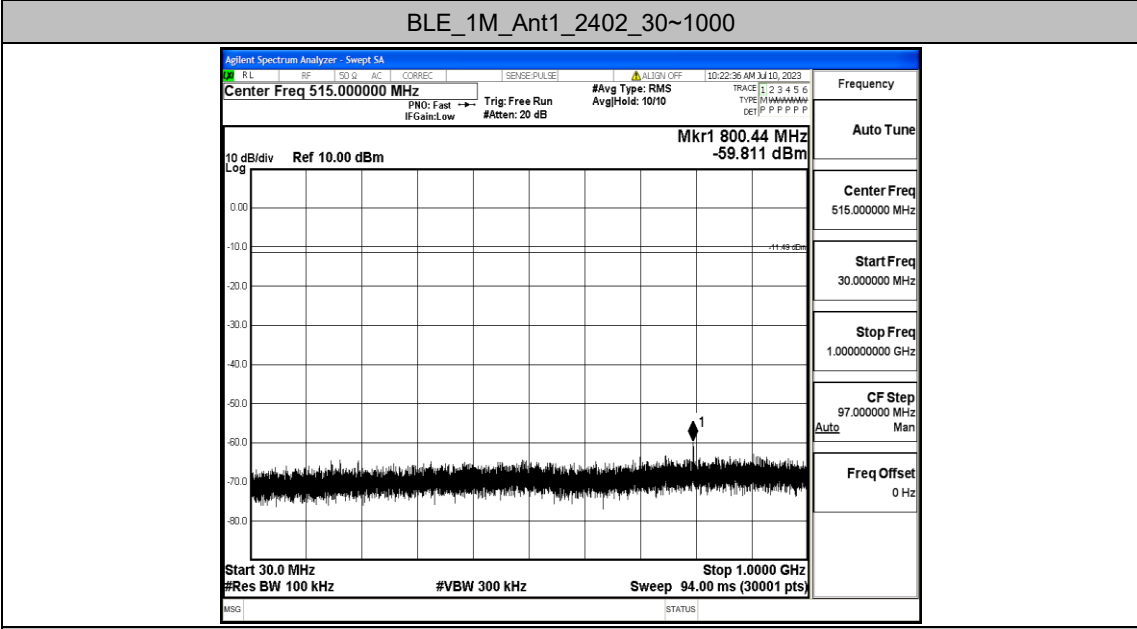
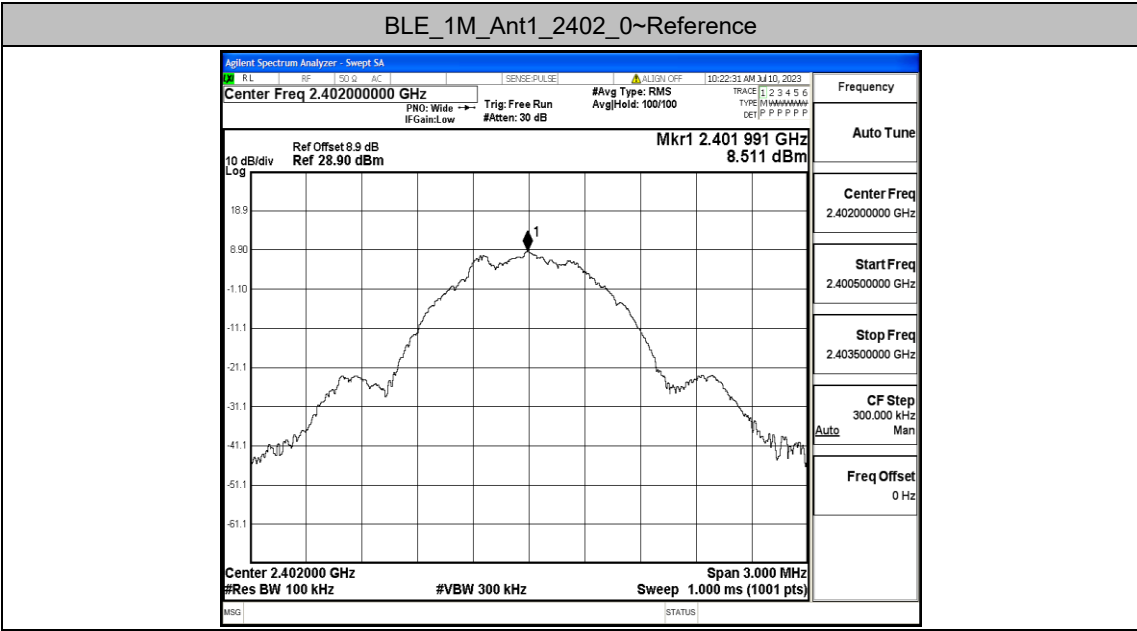

BLE_1M_Ant1_High_2480

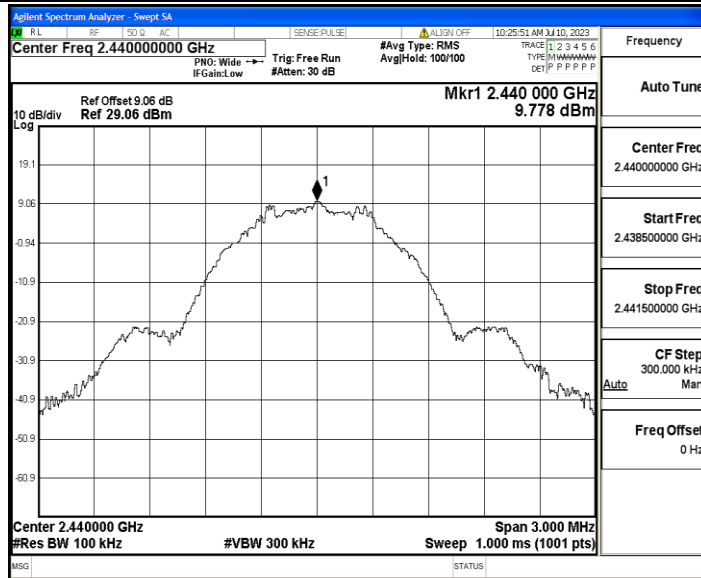
Appendix F: Conducted Spurious Emission

Test Result

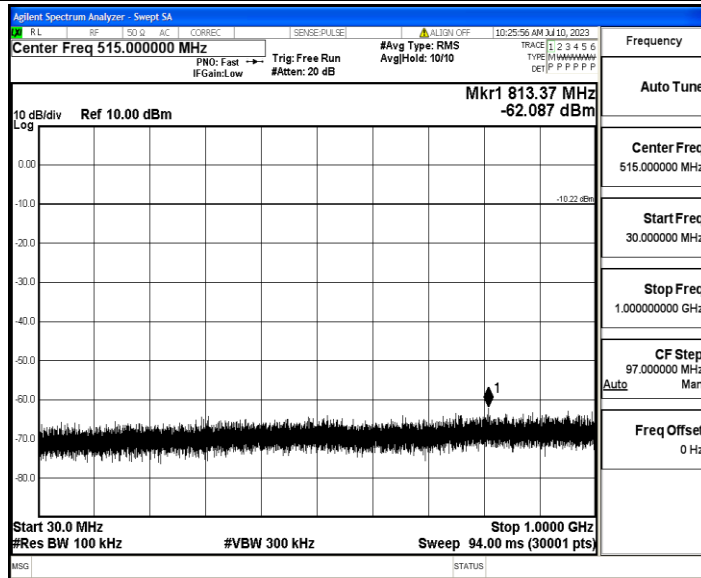
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	8.51	8.51	---	PASS
			30~1000	8.51	-59.81	≤-11.49	PASS
			1000~26500	8.51	-37.33	≤-11.49	PASS
		2440	Reference	9.78	9.78	---	PASS
			30~1000	9.78	-62.09	≤-10.22	PASS
			1000~26500	9.78	-41.01	≤-10.22	PASS
		2480	Reference	10.29	10.29	---	PASS
			30~1000	10.29	-62.2	≤-9.71	PASS
			1000~26500	10.29	-43.22	≤-9.71	PASS

Test Graphs

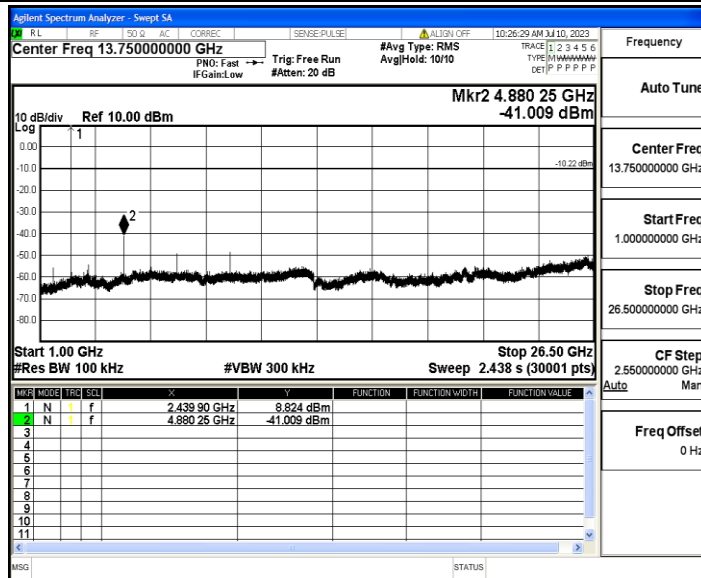




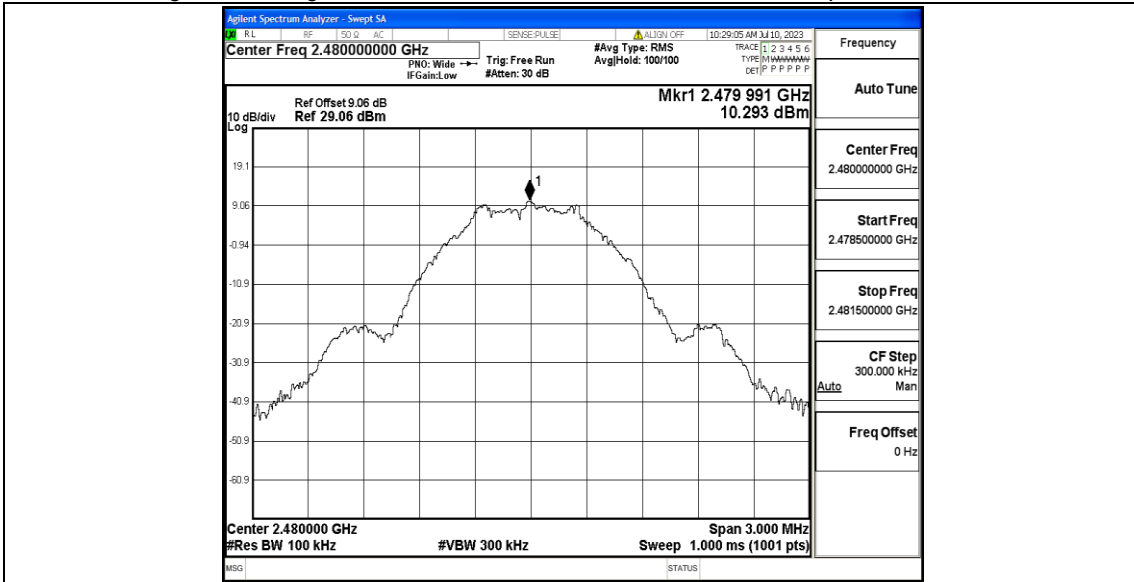
BLE_1M_Ant1_2440_30~1000



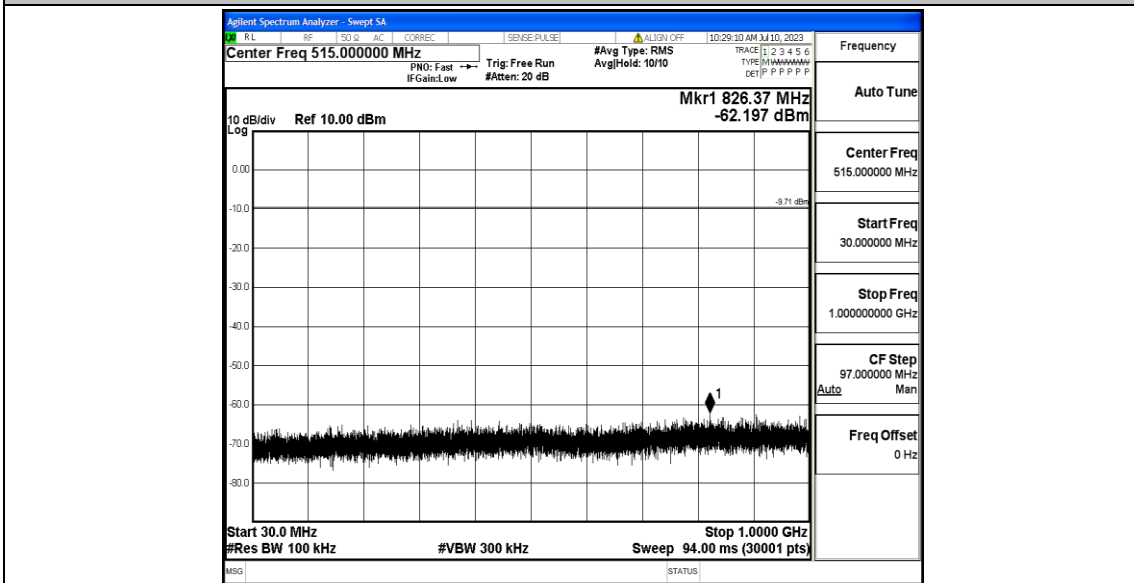
BLE_1M_Ant1_2440_1000~26500



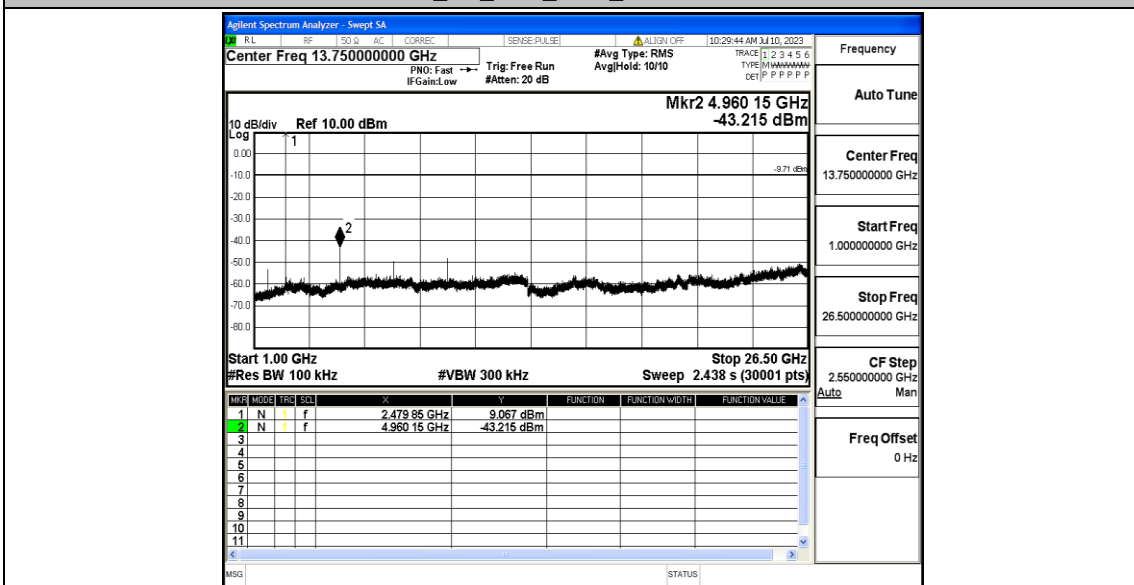
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

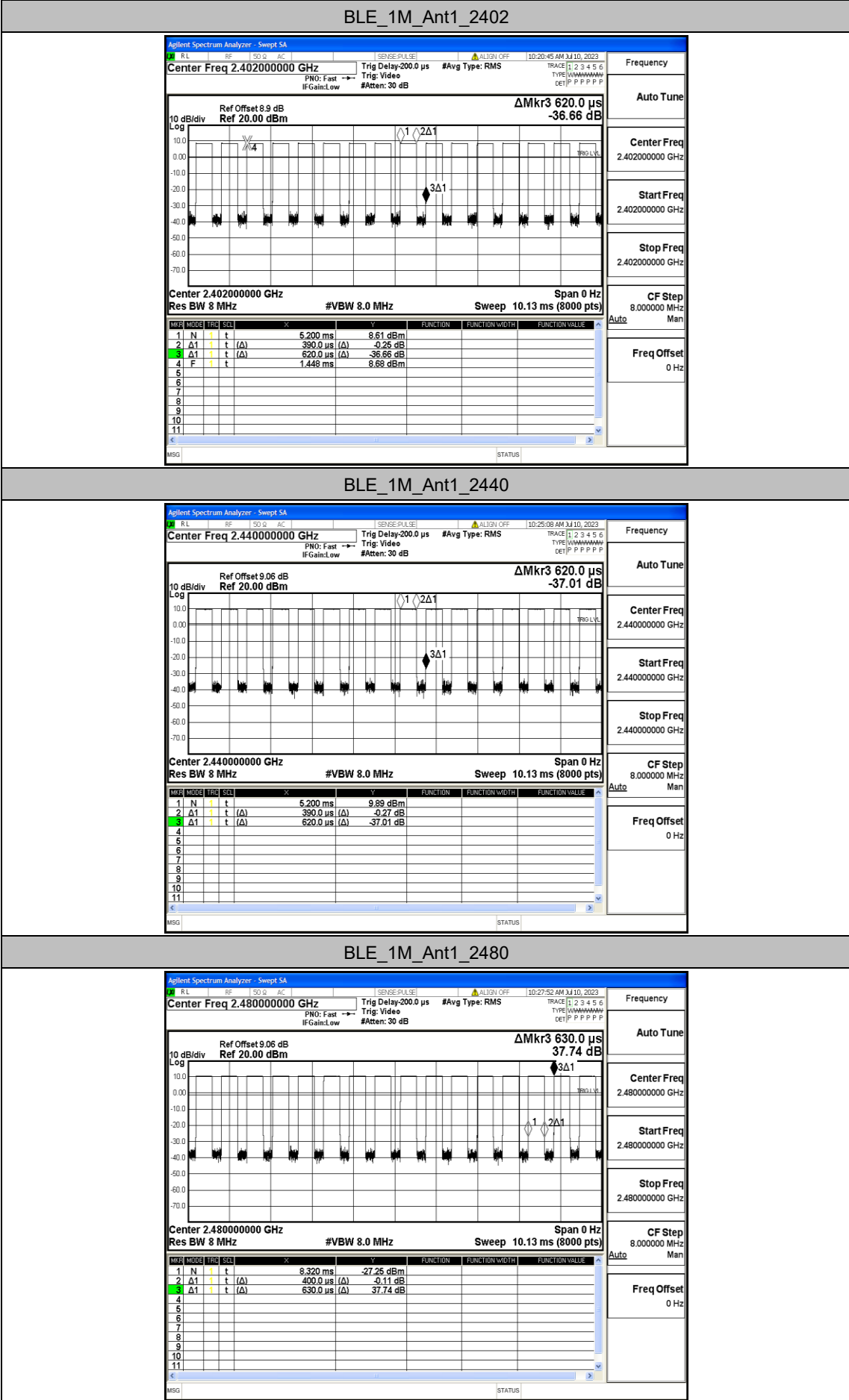


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.40	0.63	63.49	2.50

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

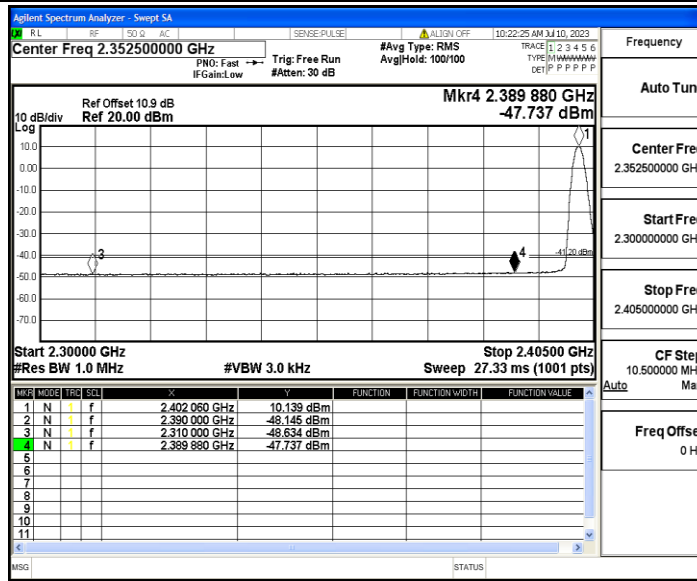
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.63	≤-41.20	PASS
				AV	2389.880	-47.74	≤-41.20	PASS
				AV	2390.000	-48.15	≤-41.20	PASS
				Peak	2310.000	-43.03	≤-21.20	PASS
				Peak	2345.360	-39.17	≤-21.20	PASS
				Peak	2390.000	-42.25	≤-21.20	PASS
		High	2480	AV	2483.500	-43	≤-41.20	PASS
				AV	2483.520	-43	≤-41.20	PASS
				AV	2500.000	-47.76	≤-41.20	PASS
				Peak	2483.500	-40.12	≤-21.20	PASS
				Peak	2484.240	-38.89	≤-21.20	PASS
				Peak	2500.000	-42.64	≤-21.20	PASS

Note:

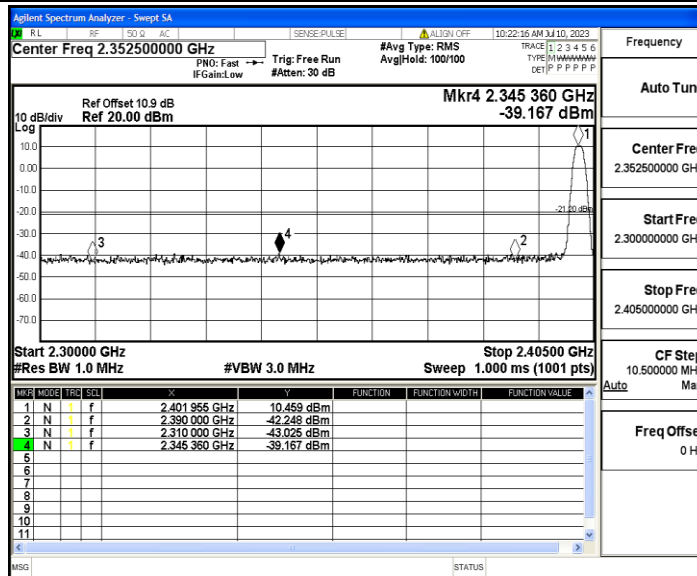
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

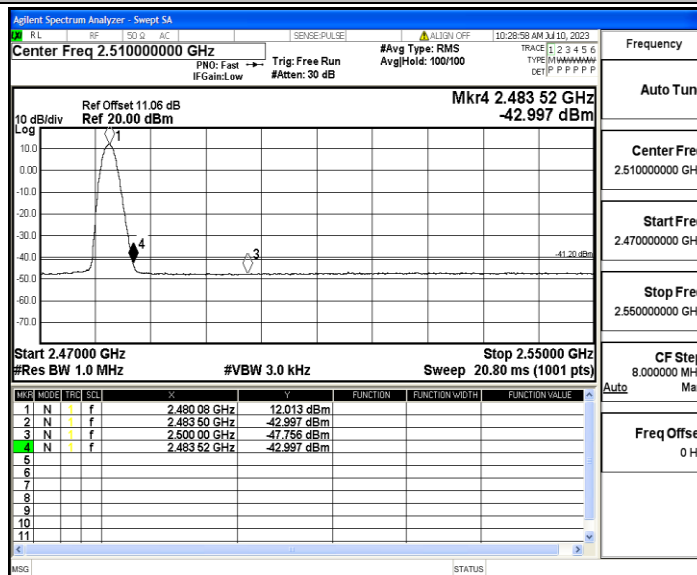
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

