

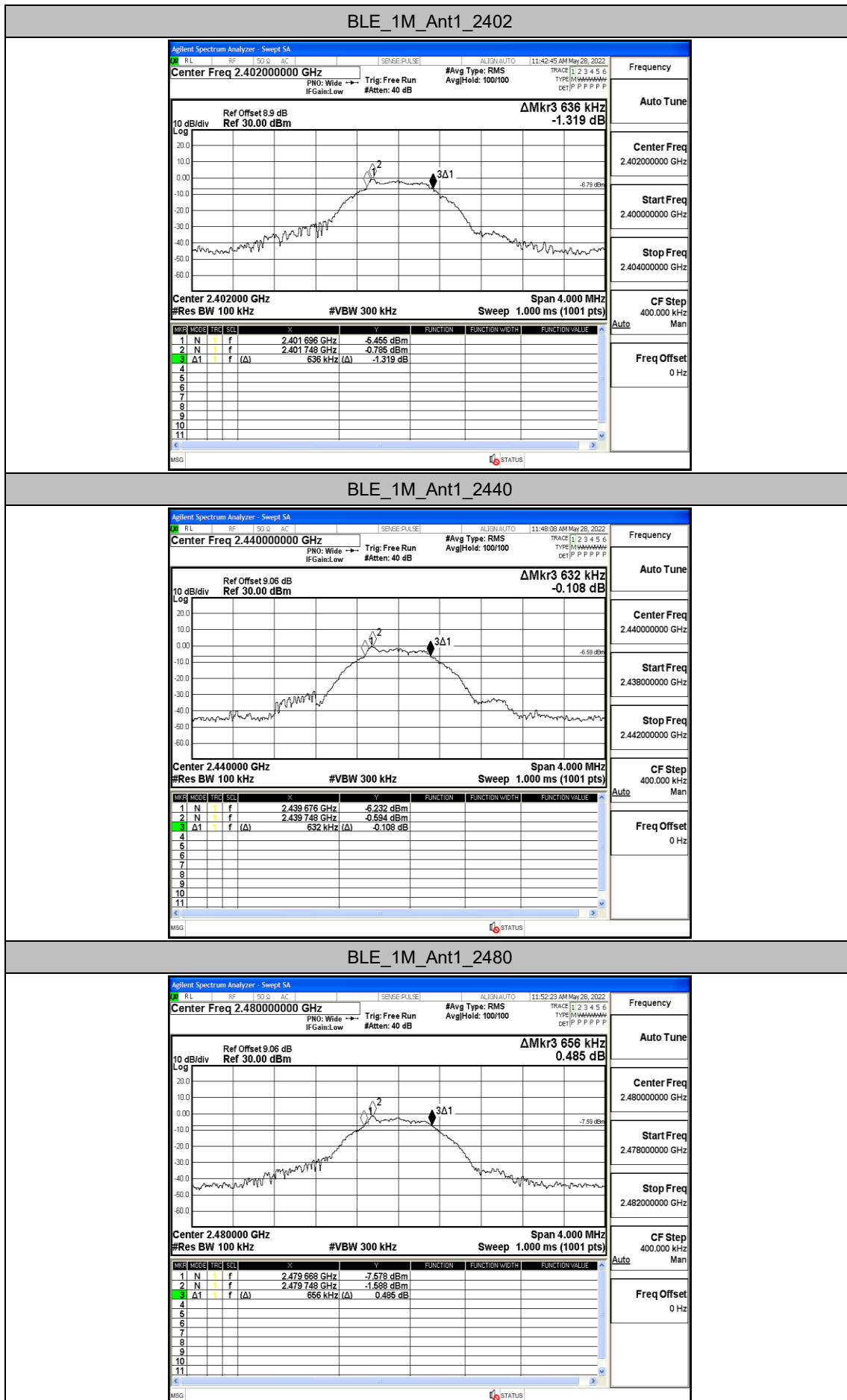
RF Test Data for BT(BLE) (Conducted Measurement)**Product Name:** Smart phone**Trade Mark:** **Test Model:** K55g**FCC ID:** 2APX7K55G**Environmental Conditions**

Temperature:	25.5°C
Relative Humidity:	55.2%
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	0.636	2401.696	2402.332	0.5	PASS
		2440	0.632	2439.676	2440.308	0.5	PASS
		2480	0.656	2479.668	2480.324	0.5	PASS

Test Graphs

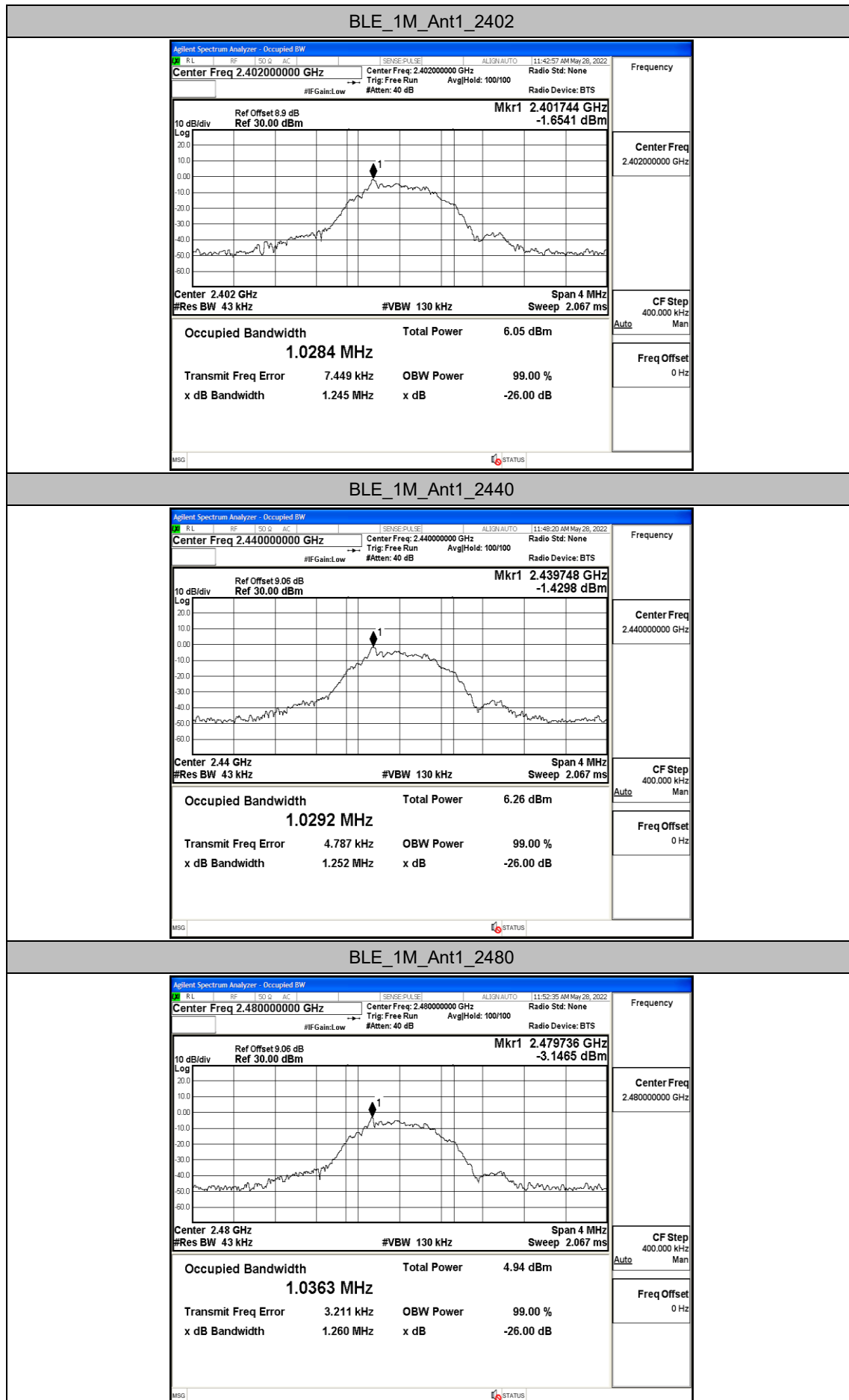


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0284	2401.493	2402.522	---	---
		2440	1.0292	2439.490	2440.519	---	---
		2480	1.0363	2479.485	2480.521	---	---

Test Graphs

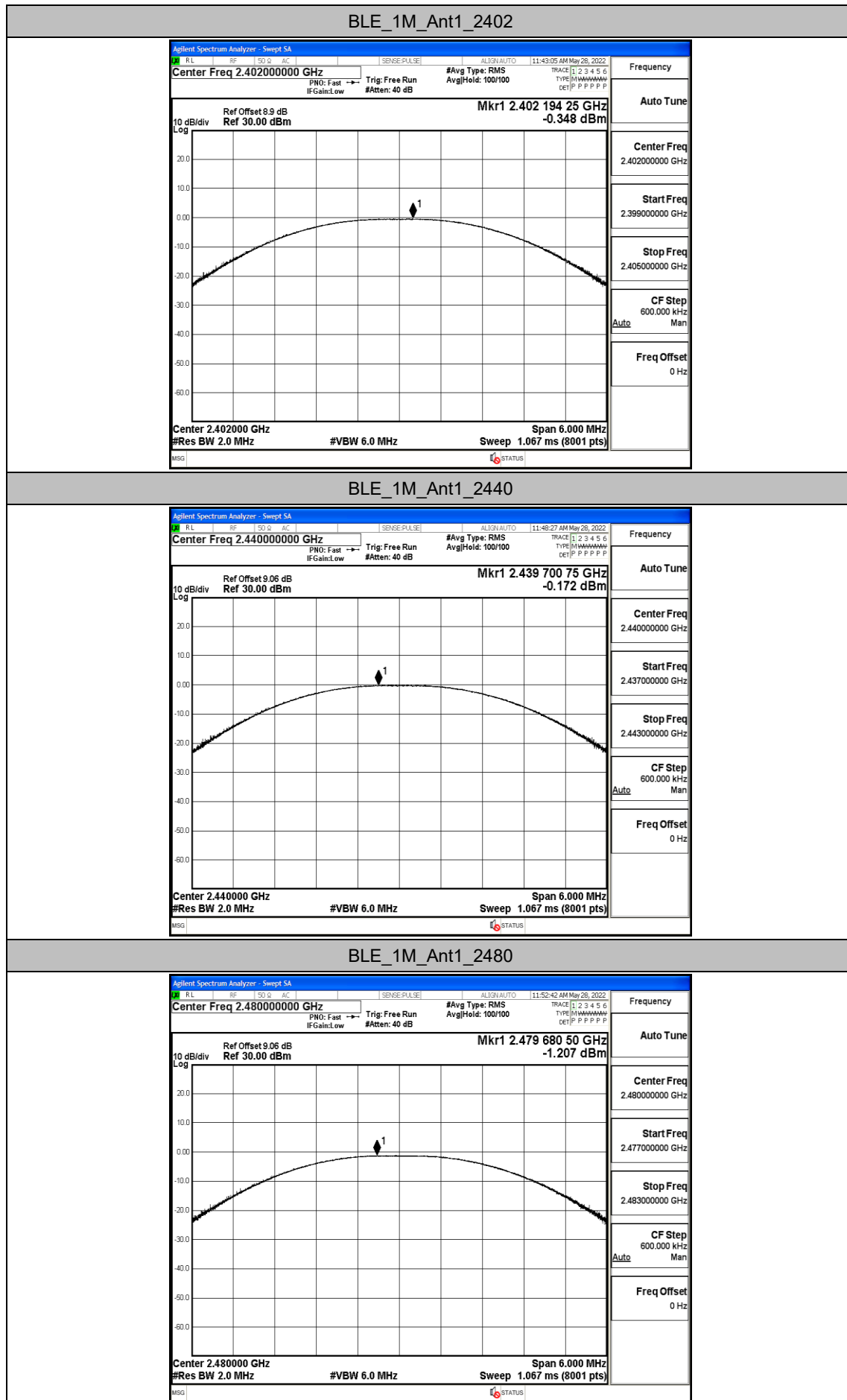


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.35	≤30	PASS
		2440	-0.17	≤30	PASS
		2480	-1.21	≤30	PASS

Test Graphs

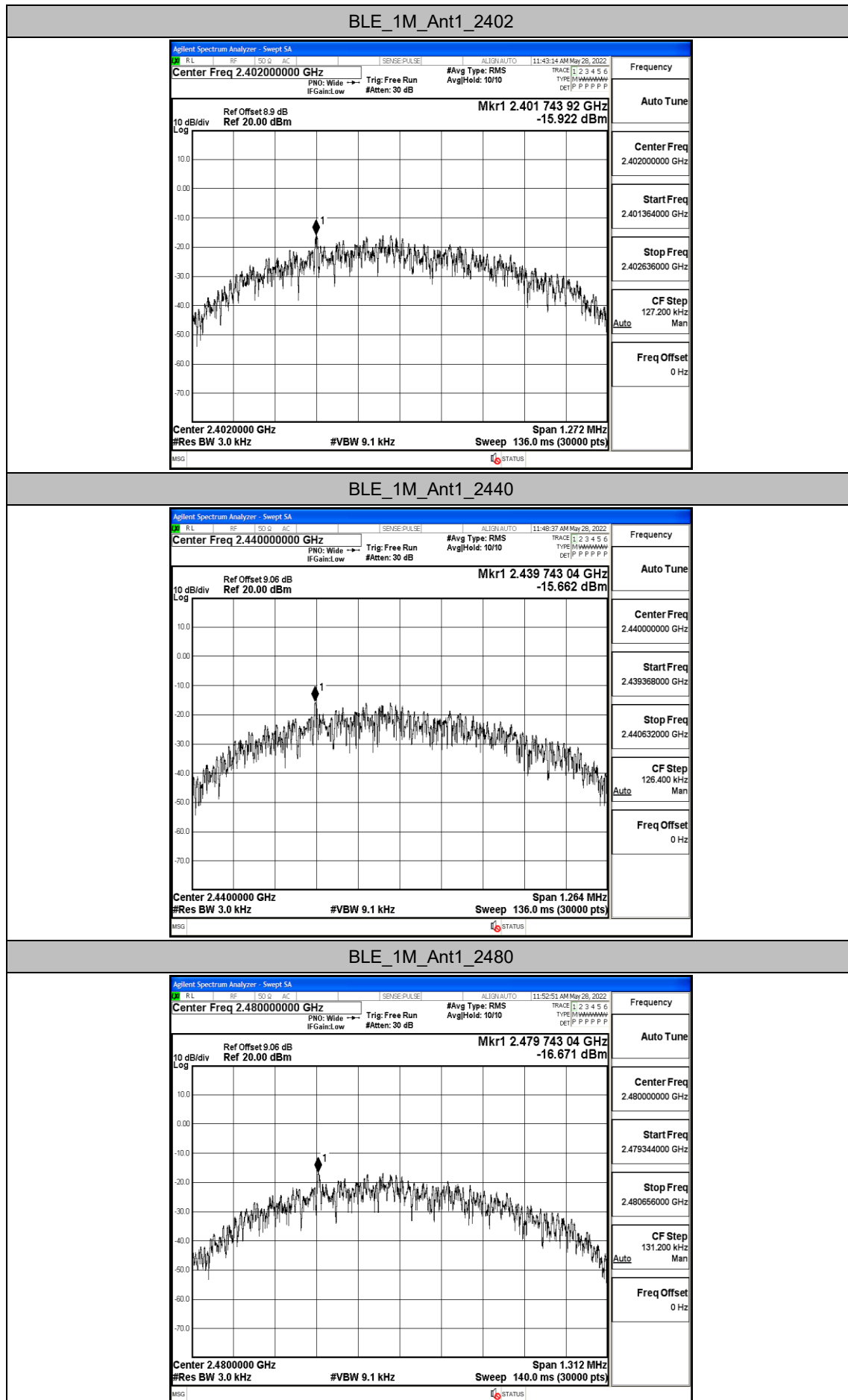


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.92	≤8.00	PASS
		2440	-15.66	≤8.00	PASS
		2480	-16.67	≤8.00	PASS

Test Graphs

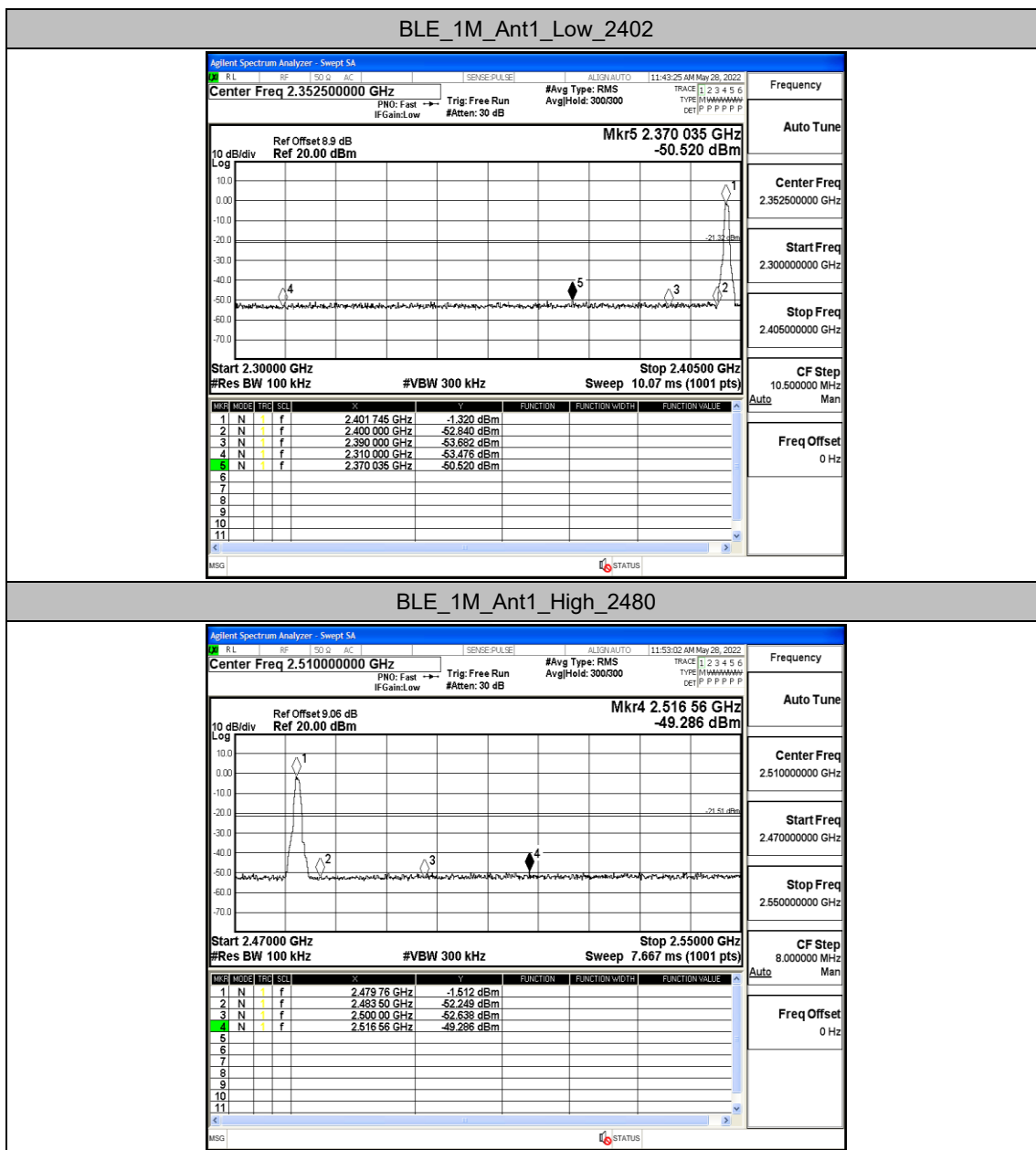


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.32	-50.52	≤-21.32	PASS
		High	2480	-1.51	-49.29	≤-21.51	PASS

Test Graphs

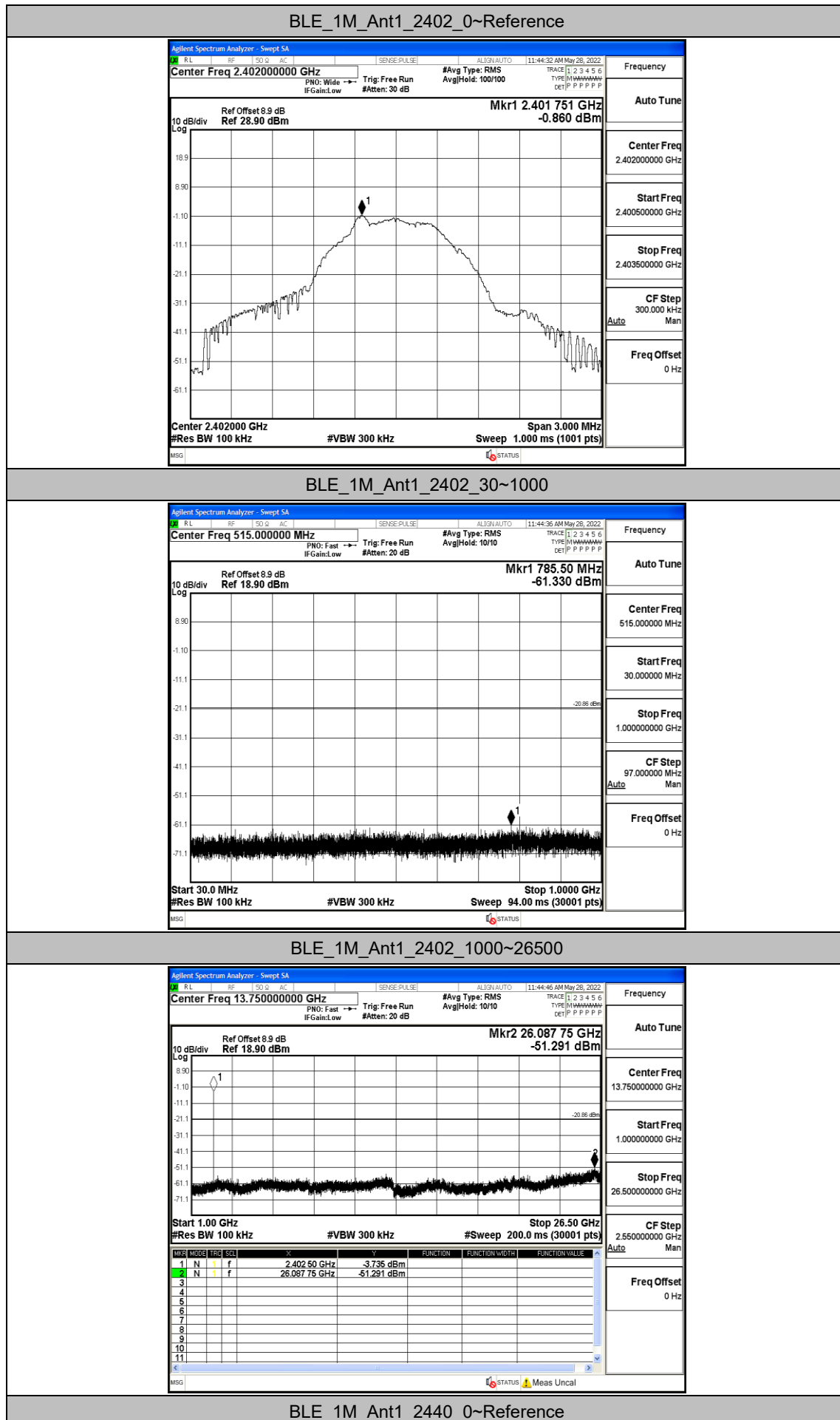


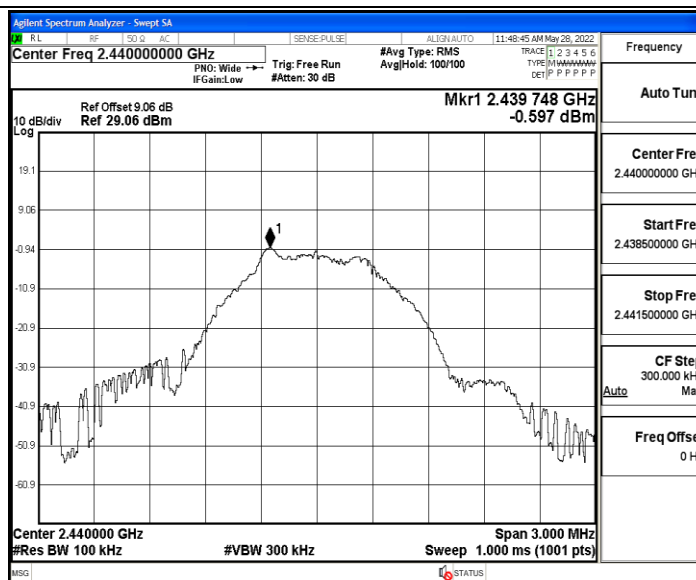
Appendix F: Conducted Spurious Emission

Test Result

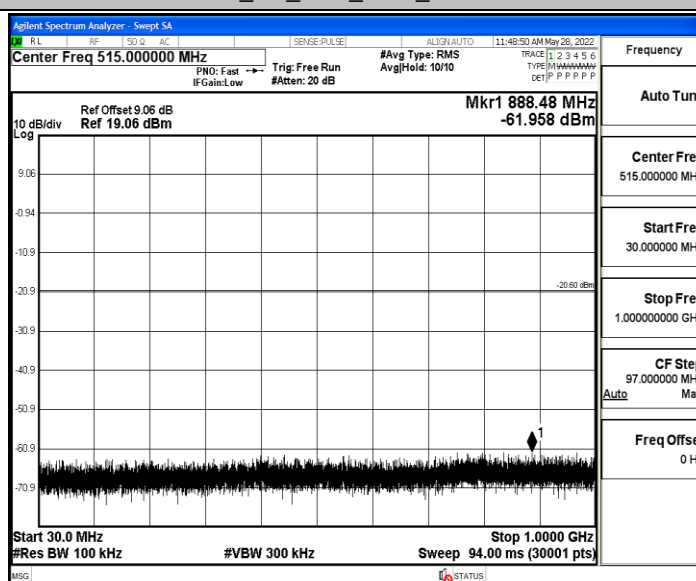
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.86	-0.86	---	PASS
			30~1000	-0.86	-61.33	≤-20.86	PASS
			1000~26500	-0.86	-51.29	≤-20.86	PASS
		2440	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-61.96	≤-20.6	PASS
			1000~26500	-0.60	-52.03	≤-20.6	PASS
		2480	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-61.88	≤-21.52	PASS
			1000~26500	-1.52	-51.17	≤-21.52	PASS

Test Graphs

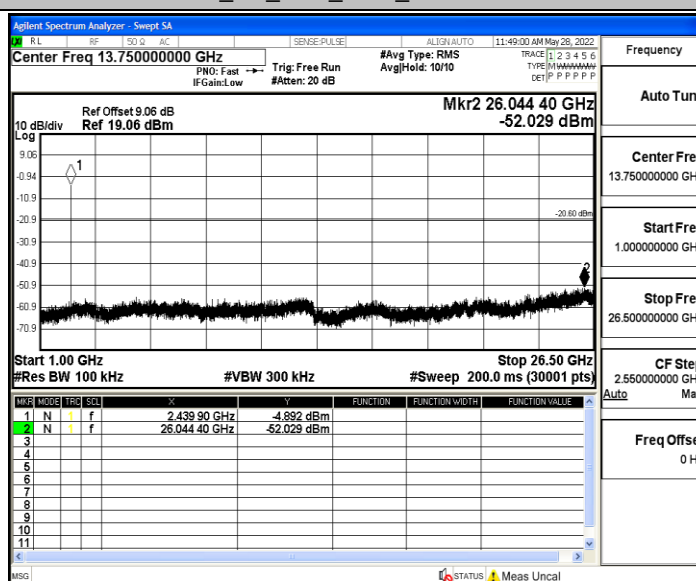




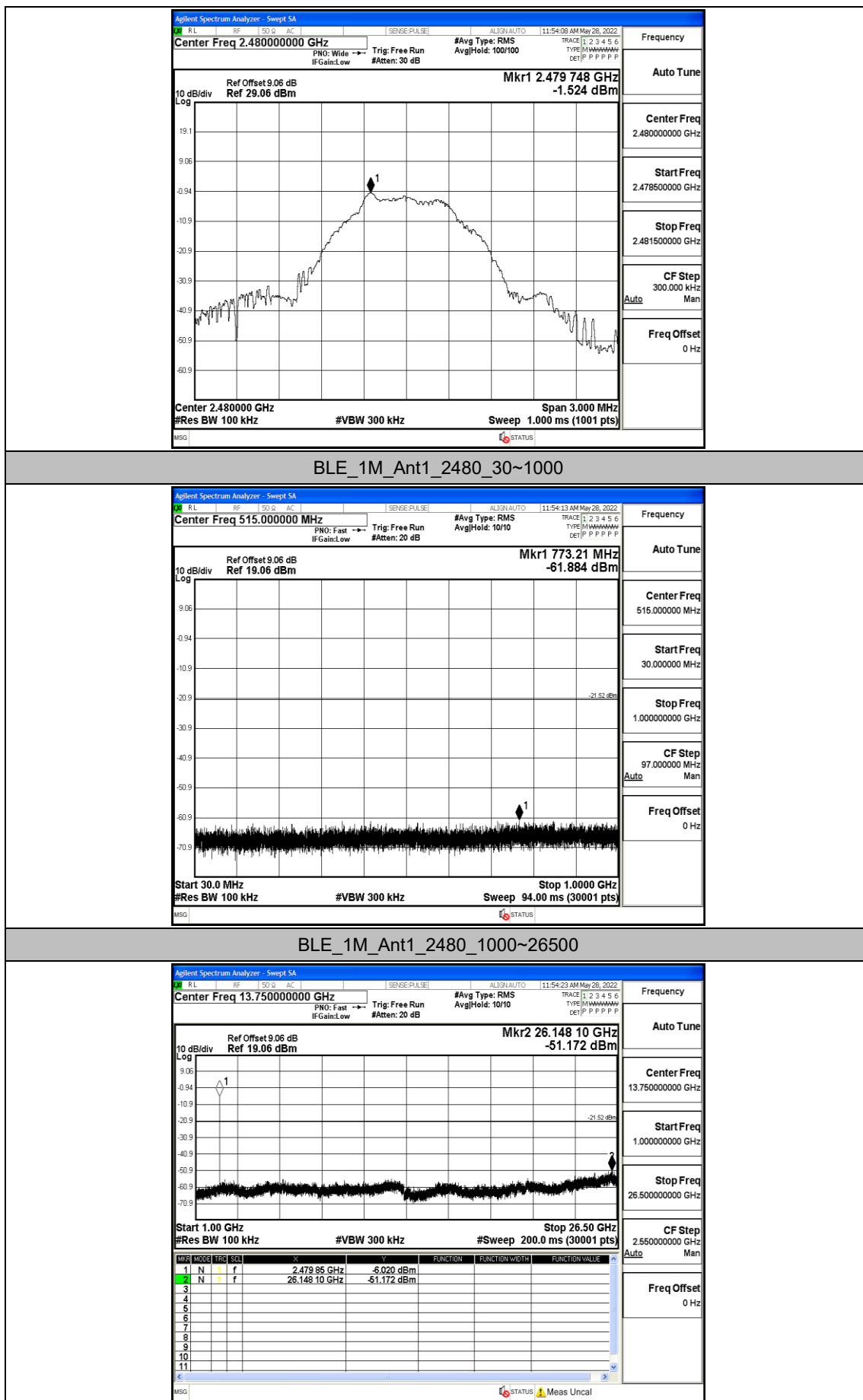
BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

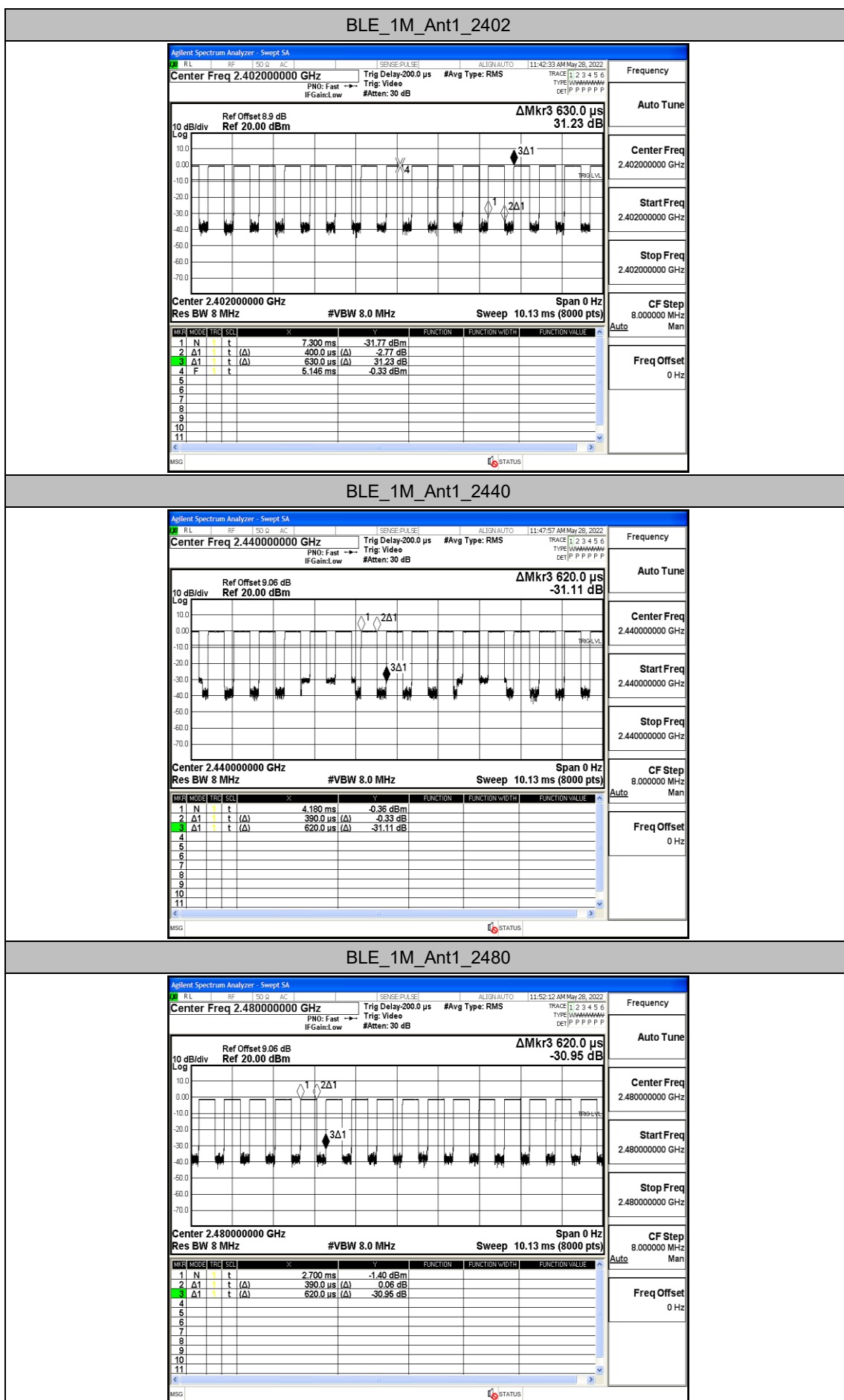


Appendix G: Duty Cycle

Test Result

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

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	-48.6	≤-41.20	PASS
				AV	2381.900	-48.18	≤-41.20	PASS
				AV	2390.000	-48.55	≤-41.20	PASS
				Peak	2310.000	-43.15	≤-21.20	PASS
				Peak	2367.725	-39.15	≤-21.20	PASS
				Peak	2390.000	-42.87	≤-21.20	PASS
		High	2480	AV	2483.500	-47.87	≤-41.20	PASS
				AV	2492.560	-47.49	≤-41.20	PASS
				AV	2500.000	-47.9	≤-41.20	PASS
				Peak	2483.500	-42.19	≤-21.20	PASS
				Peak	2489.280	-39.1	≤-21.20	PASS
				Peak	2500.000	-41.23	≤-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

