

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

Product Name: WUUK Wired Smart Doorbell Pro

Trade Mark: WUUK

Test Model: Y0110

FCC ID: 2AWHY-Y0110

### Environmental Conditions

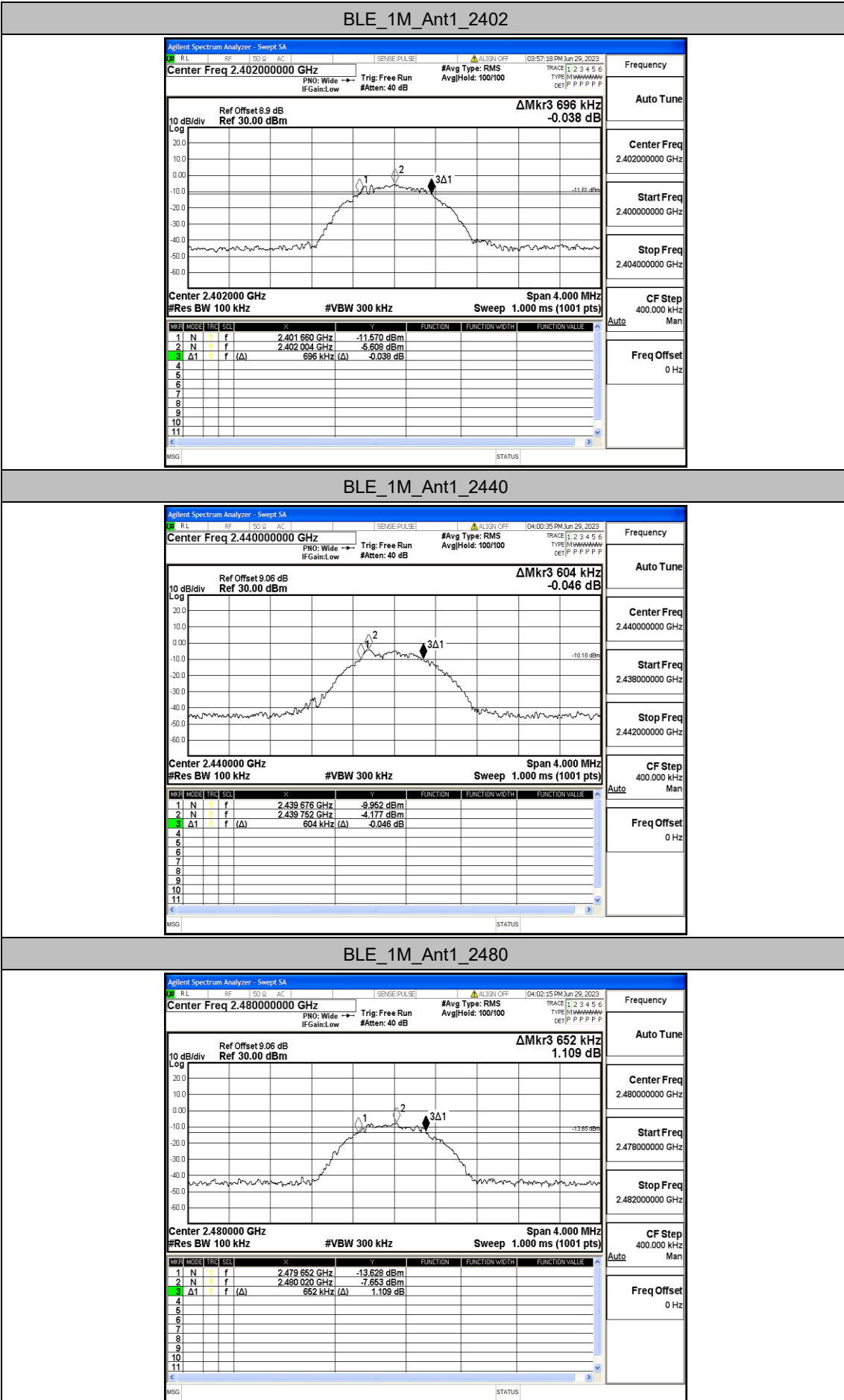
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: DTS Bandwidth

### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.660	2402.356	0.5	PASS
		2440	0.604	2439.676	2440.280	0.5	PASS
		2480	0.652	2479.652	2480.304	0.5	PASS

Test Graphs

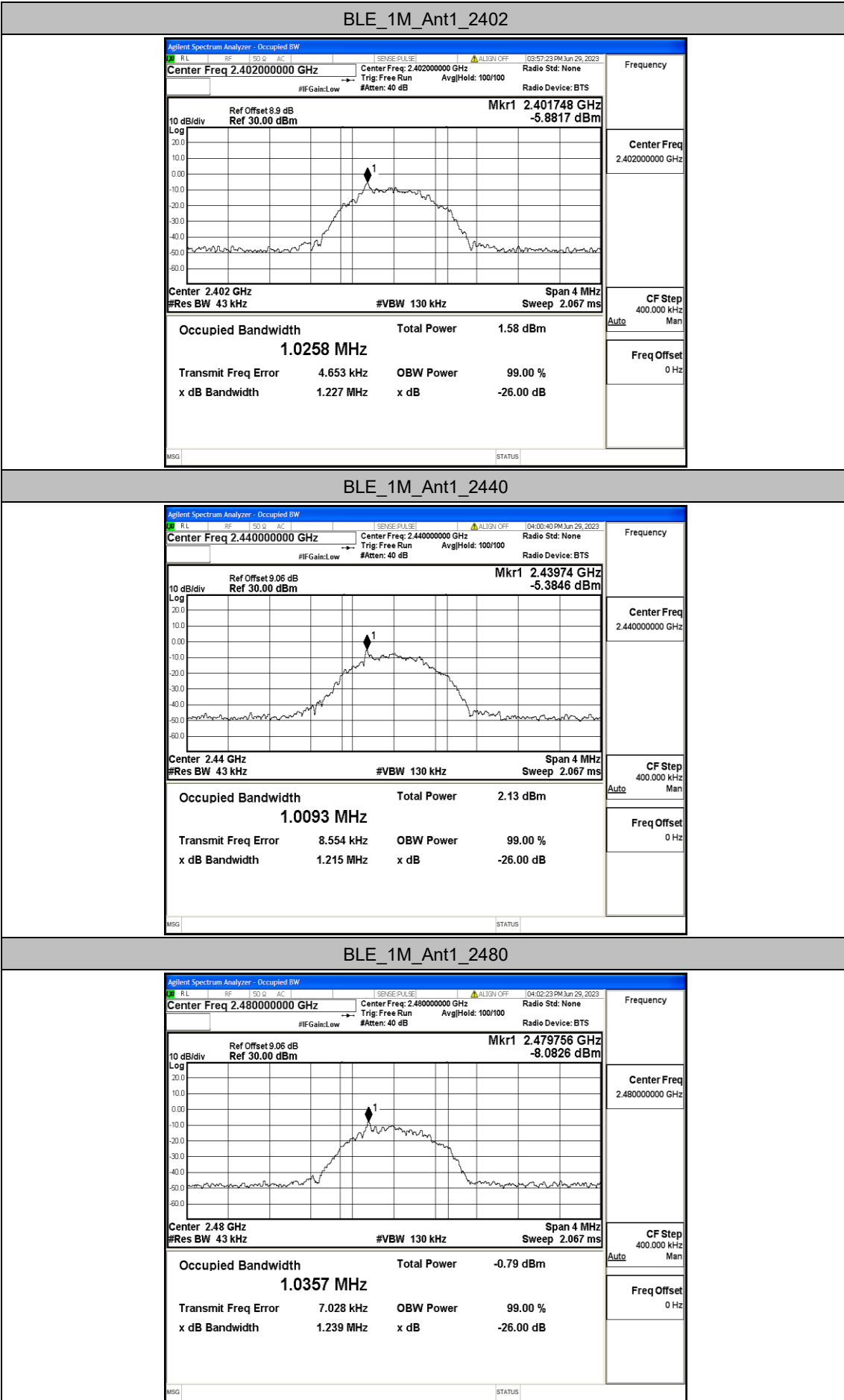


## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0258	2401.4918	2402.5176	---	---
		2440	1.0093	2439.5039	2440.5132	---	---
		2480	1.0357	2479.4892	2480.5249	---	---

Test Graphs

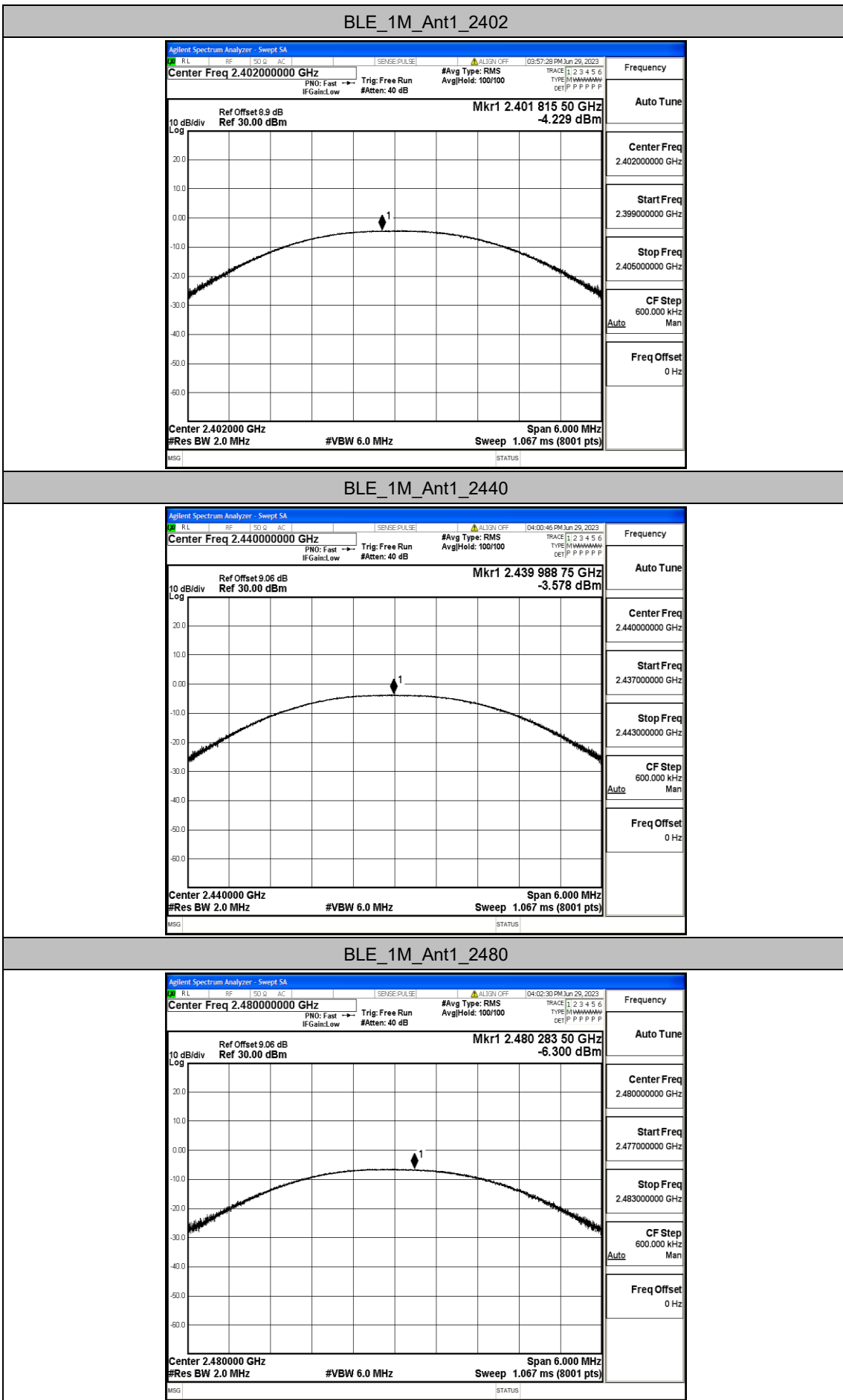


### Appendix C: Maximum Peak conducted output power

#### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.23	≤30	PASS
		2440	-3.58	≤30	PASS
		2480	-6.3	≤30	PASS

Test Graphs

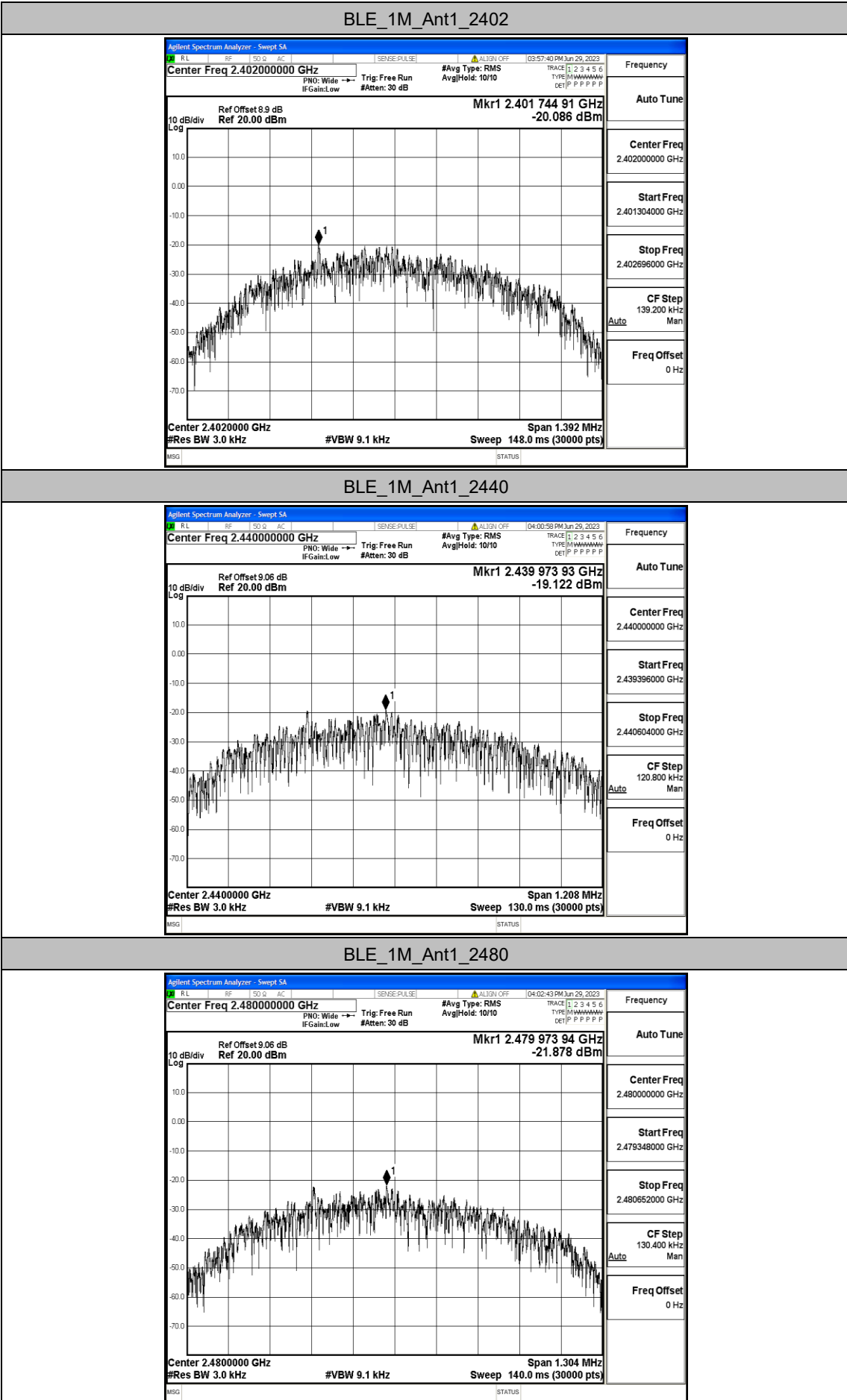


## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.09	≤8.00	PASS
		2440	-19.12	≤8.00	PASS
		2480	-21.88	≤8.00	PASS

### Test Graphs



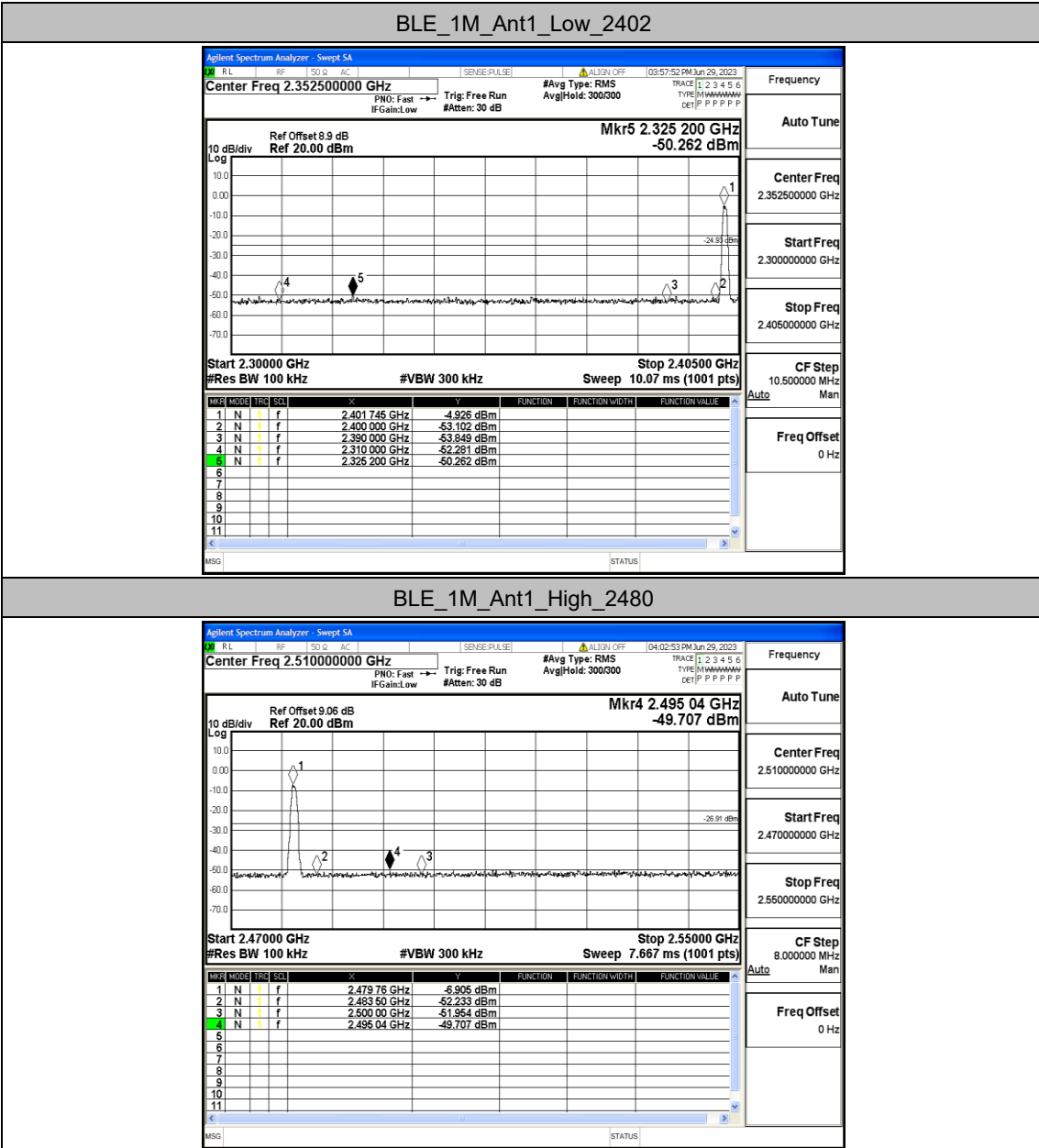


## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.93	-50.26	≤-24.93	PASS
		High	2480	-6.91	-49.71	≤-26.91	PASS

Test Graphs

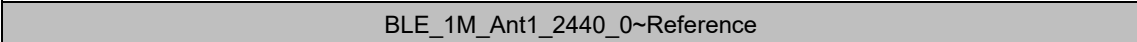
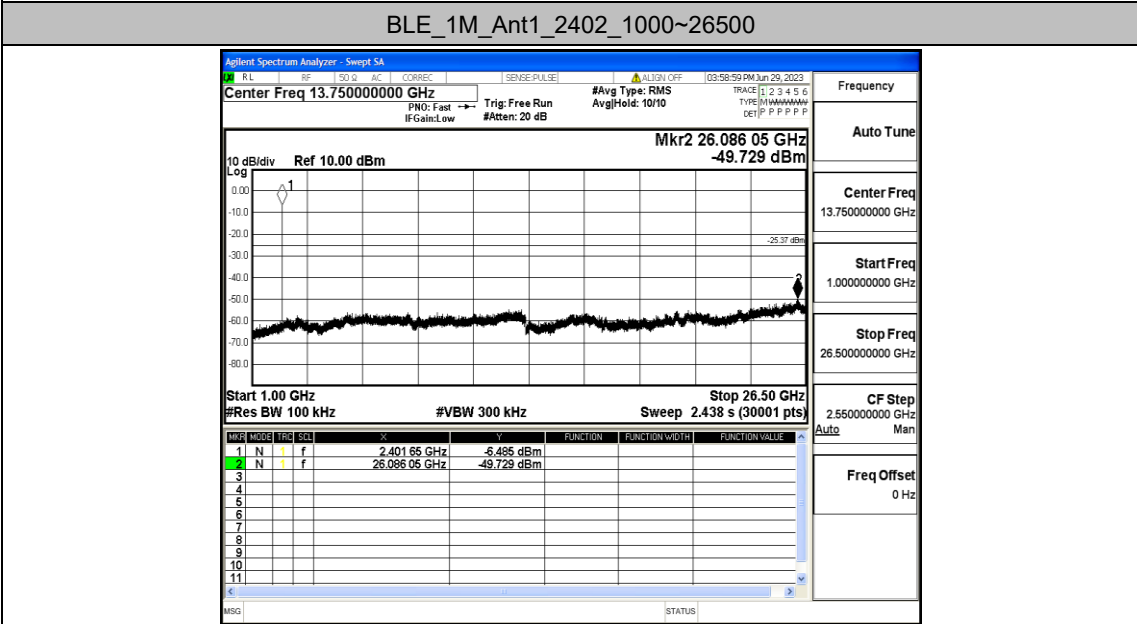
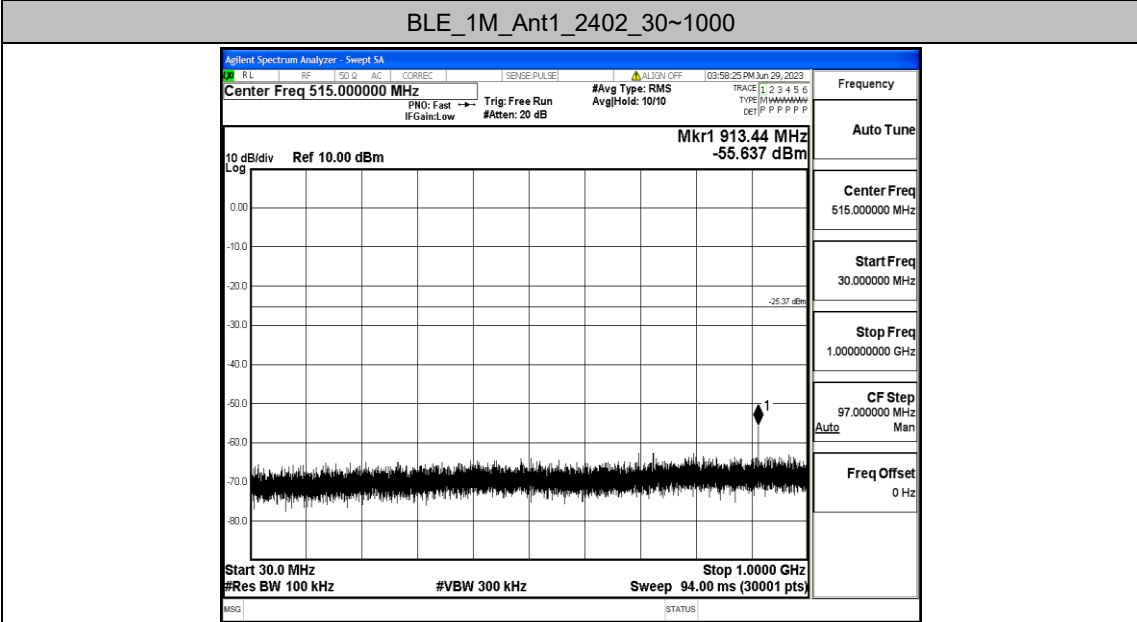
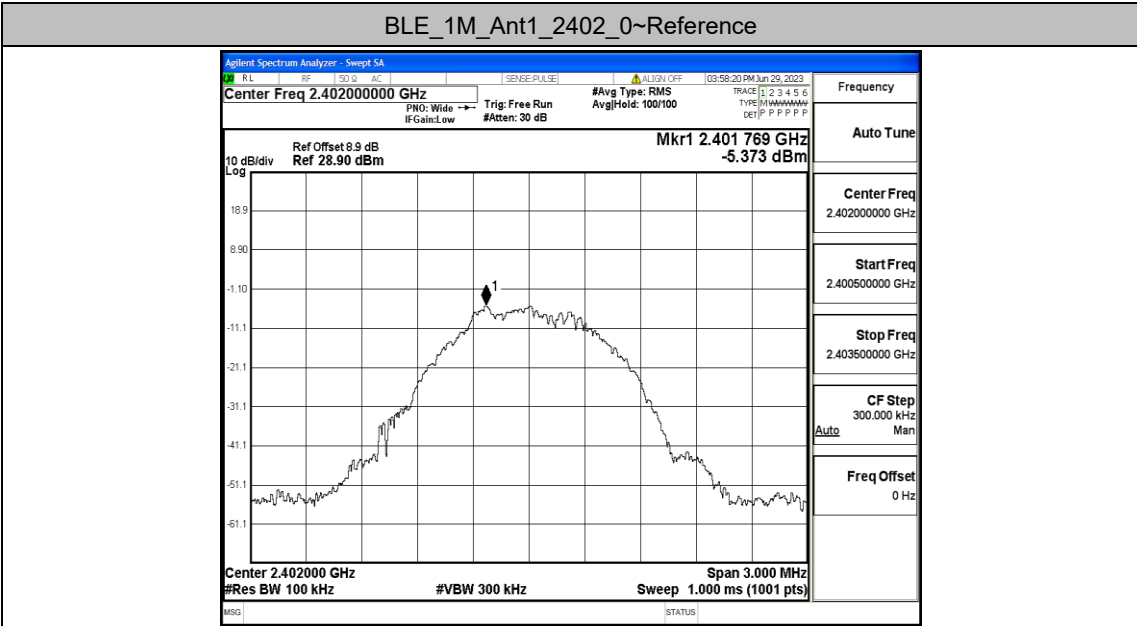


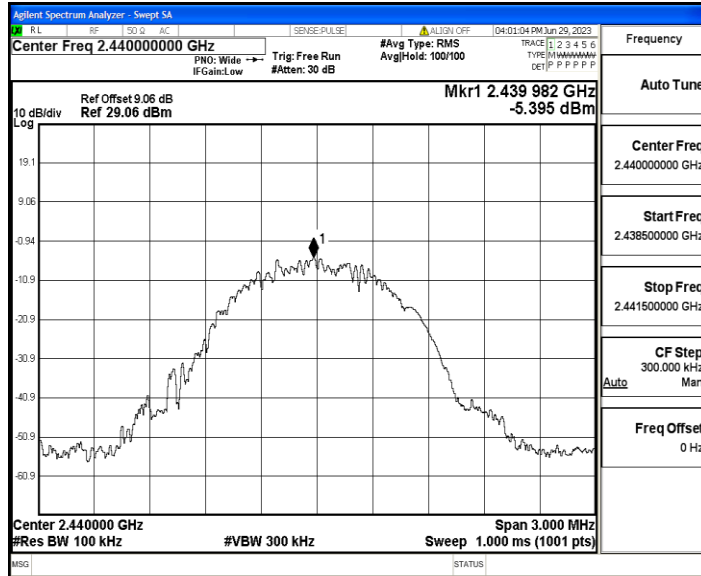
## Appendix F: Conducted Spurious Emission

### Test Result

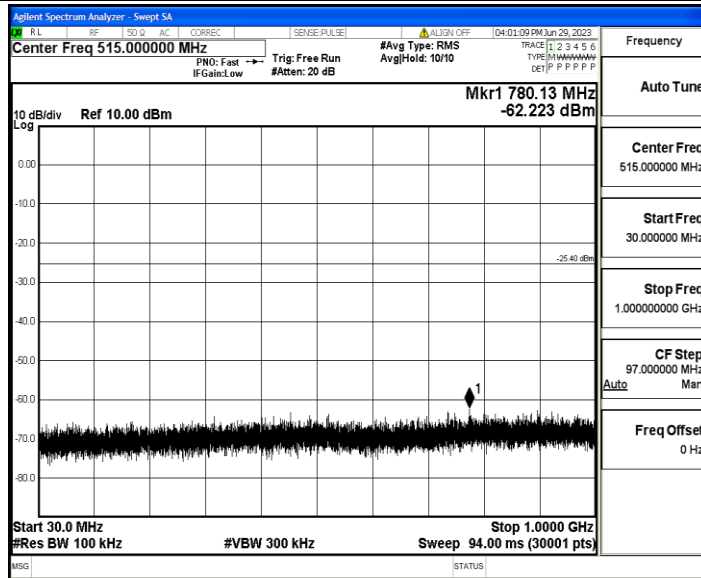
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-55.64	≤-25.37	PASS
			1000~26500	-5.37	-49.73	≤-25.37	PASS
		2440	Reference	-5.40	-5.40	---	PASS
			30~1000	-5.40	-62.22	≤-25.4	PASS
			1000~26500	-5.40	-50.28	≤-25.4	PASS
		2480	Reference	-6.92	-6.92	---	PASS
			30~1000	-6.92	-62.7	≤-26.92	PASS
			1000~26500	-6.92	-49.62	≤-26.92	PASS

Test Graphs

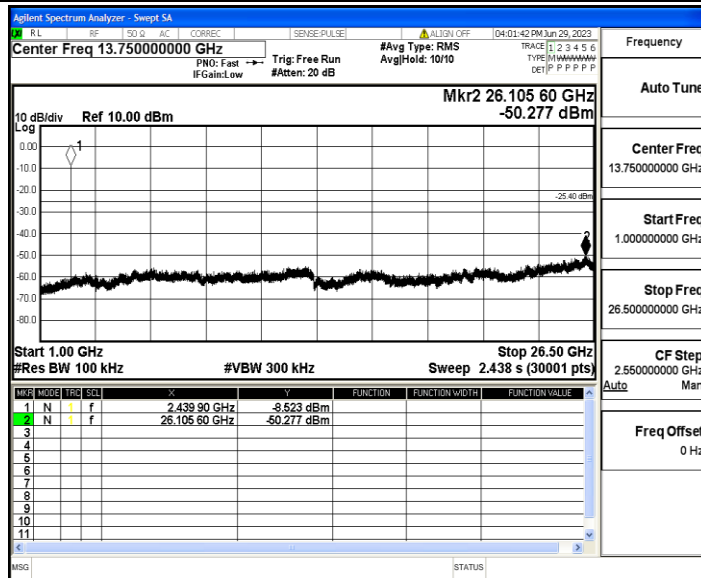




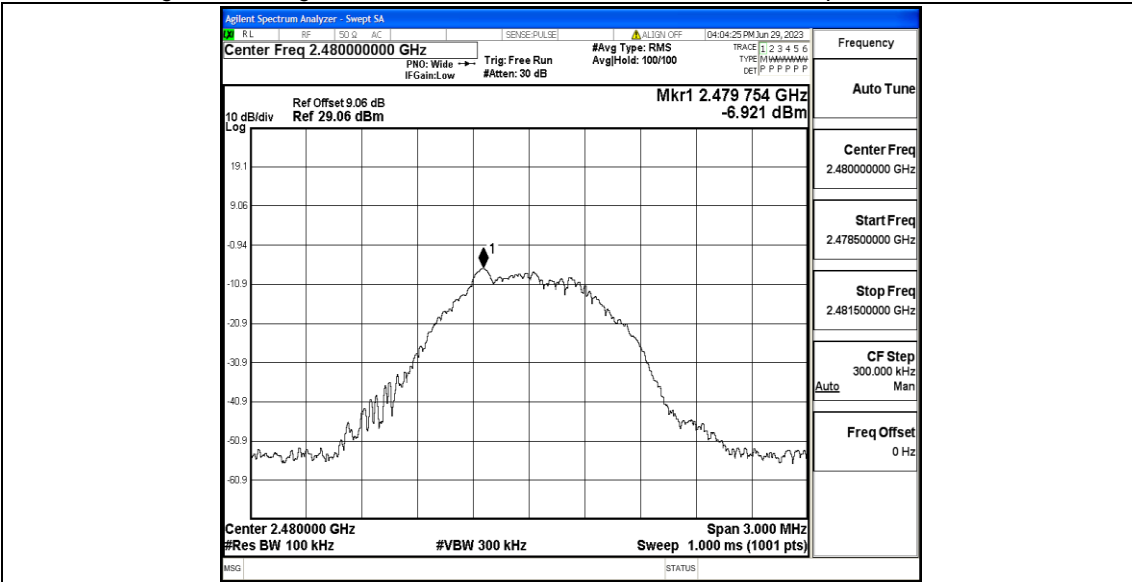
BLE\_1M\_Ant1\_2440\_30~1000



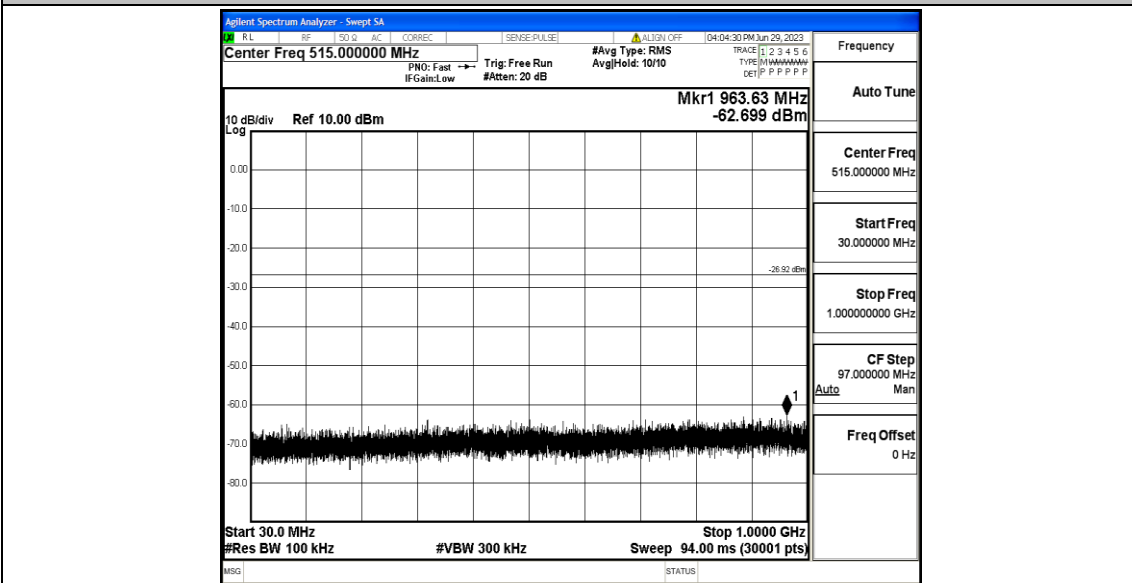
BLE\_1M\_Ant1\_2440\_1000~26500



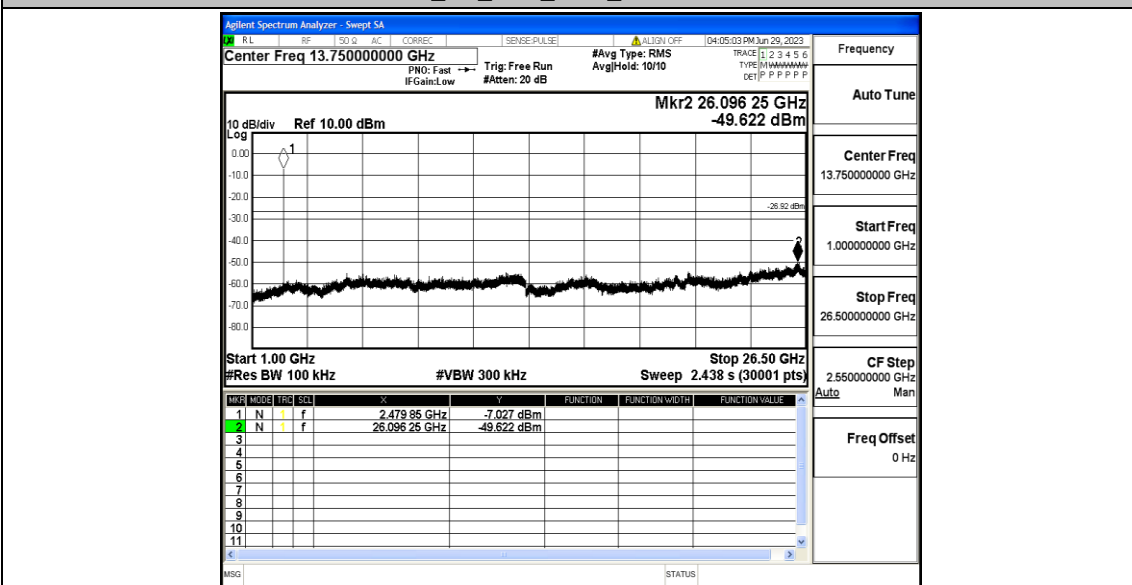
BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

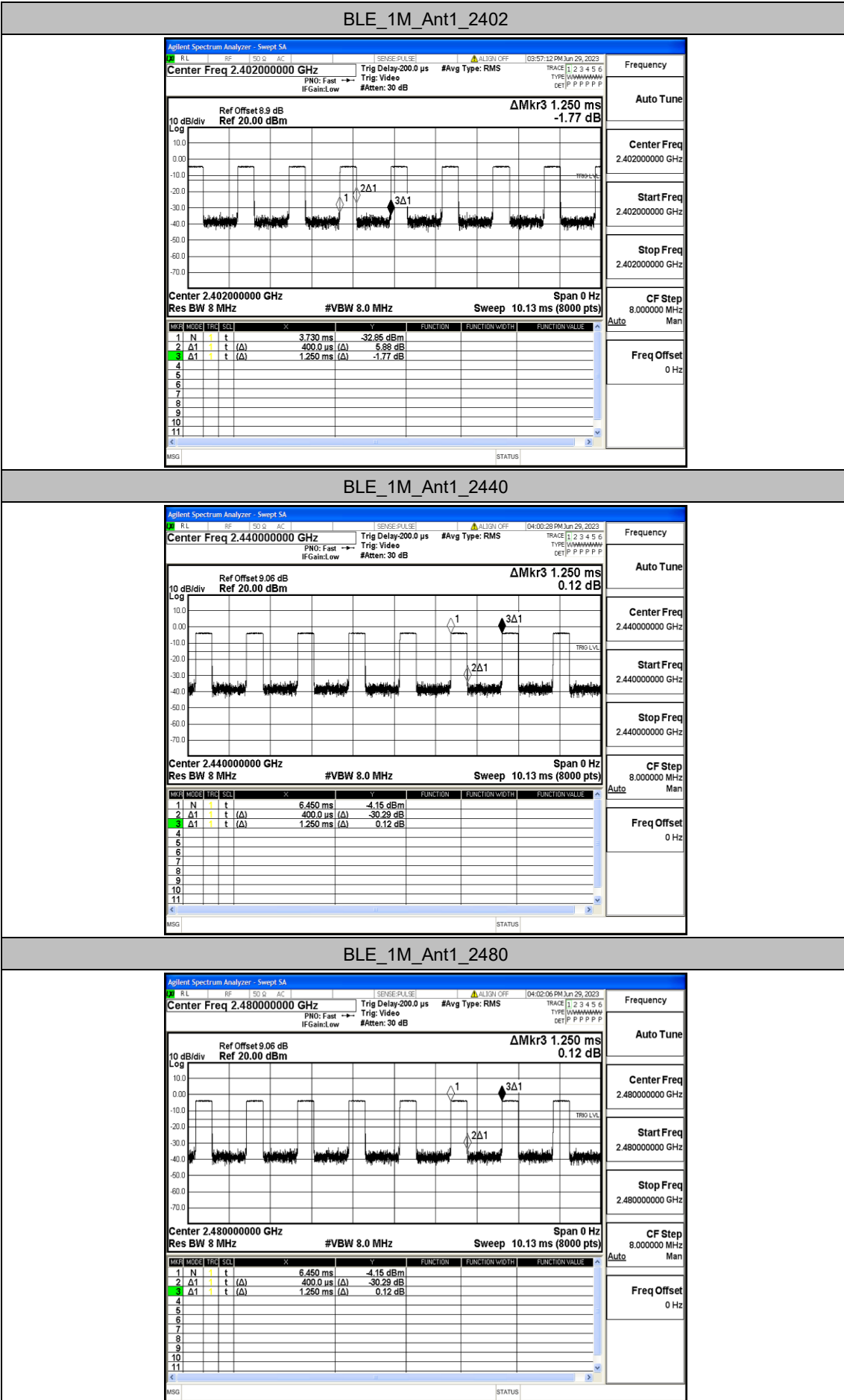


## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.40	1.25	32.00	2.50
		2440	0.40	1.25	32.00	2.50
		2480	0.40	1.25	32.00	2.50

Test Graphs





## Appendix H: Emissions in Restricted Bands

### Test Result

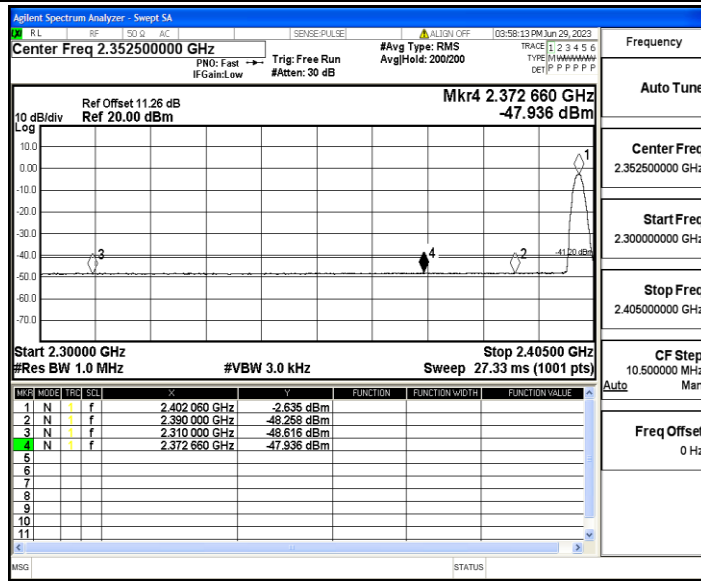
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.62	≤-41.20	PASS
				AV	2372.660	-47.94	≤-41.20	PASS
				AV	2390.000	-48.26	≤-41.20	PASS
				Peak	2310.000	-42.9	≤-21.20	PASS
				Peak	2335.490	-38.58	≤-21.20	PASS
				Peak	2390.000	-41.62	≤-21.20	PASS
		High	2480	AV	2483.500	-48.83	≤-41.20	PASS
				AV	2499.920	-48.59	≤-41.20	PASS
				AV	2500.000	-48.6	≤-41.20	PASS
				Peak	2483.500	-44.2	≤-21.20	PASS
				Peak	2489.840	-38.98	≤-21.20	PASS
				Peak	2500.000	-42.11	≤-21.20	PASS

Note:

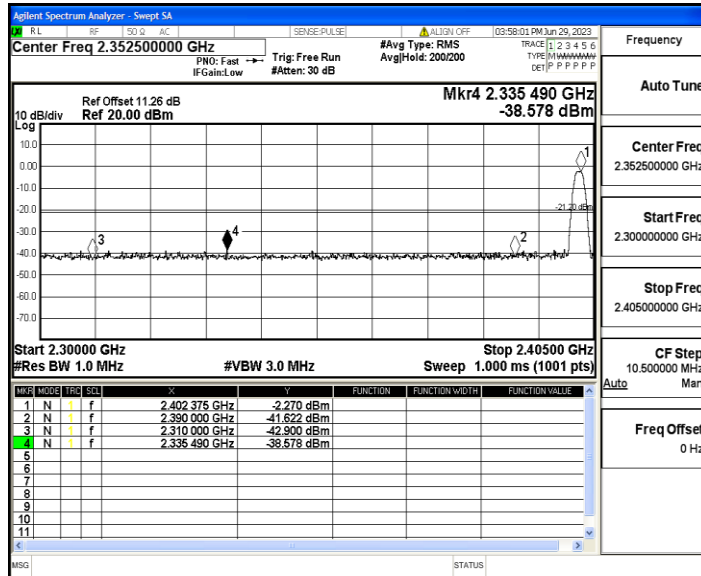
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

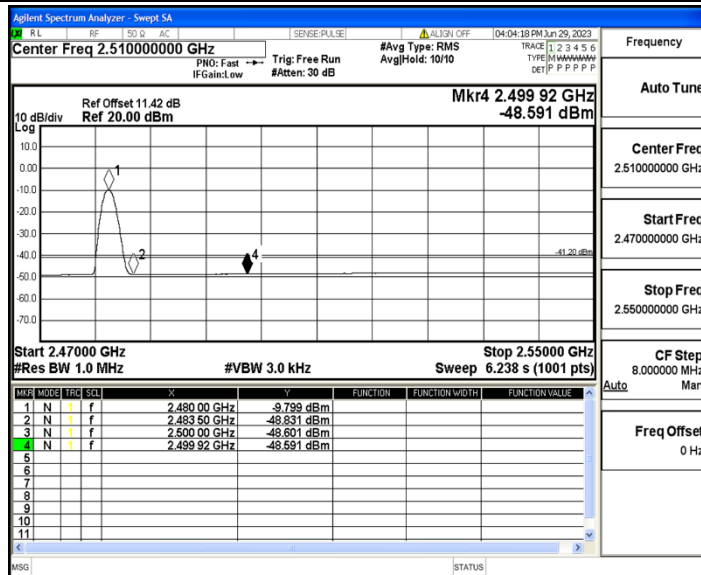
BLE\_1M\_Ant1\_Low\_2402\_AV



BLE\_1M\_Ant1\_Low\_2402\_Peak



BLE\_1M\_Ant1\_High\_2480\_AV



BLE\_1M\_Ant1\_High\_2480\_Peak

