

## FCC Appendix RF Test Data

**FCC ID** : 2BCTS-ES-FM14

**Company** : Shenzhen Enersmart Technology Development Co., Ltd.

**EUT** : Find Tag

**Model Number** : ES-FM14

**Report No.** : CTA25061700901

**Reviewed By** : Eric Wang

## Appendix A: DTS Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.628	2401.688	2402.316	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

# Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

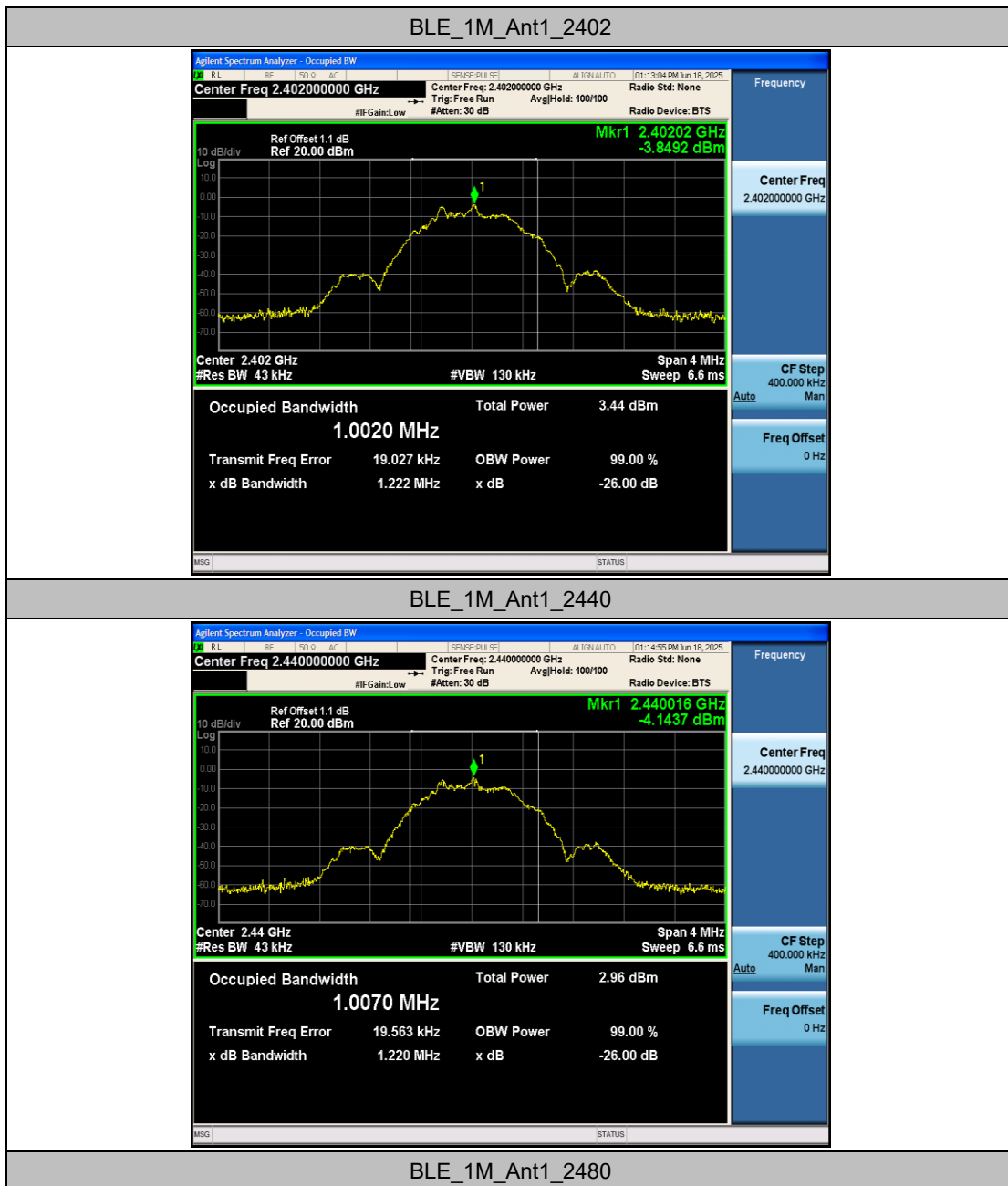


## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0020	2401.5180	2402.5200	---	---
		2440	1.0070	2439.5161	2440.5231	---	---
		2480	1.0020	2479.5204	2480.5224	---	---

# Test Graphs





## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.76	≤30	PASS
		2440	-3.07	≤30	PASS
		2480	-3.10	≤30	PASS



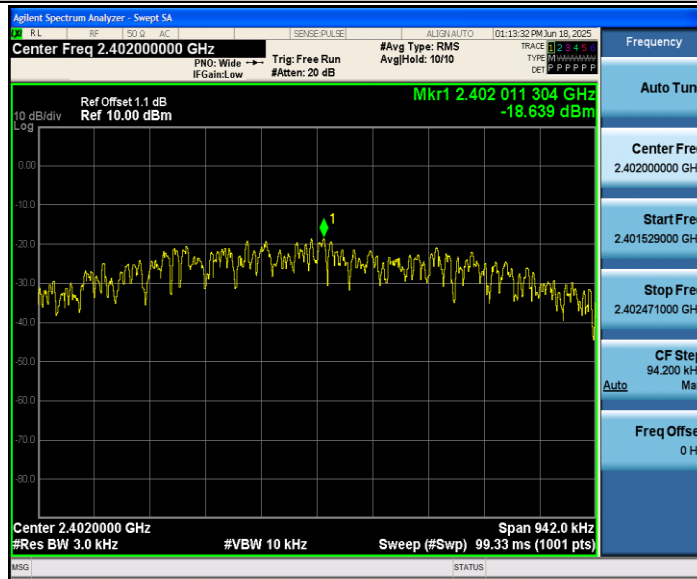
## Appendix D: Maximum power spectral density

### Test Result

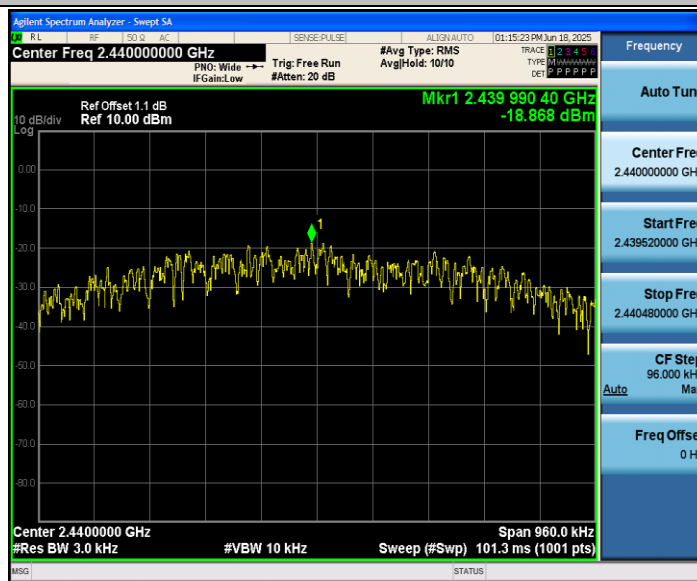
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.64	≤8.00	PASS
		2440	-18.87	≤8.00	PASS
		2480	-18.76	≤8.00	PASS

# Test Graphs

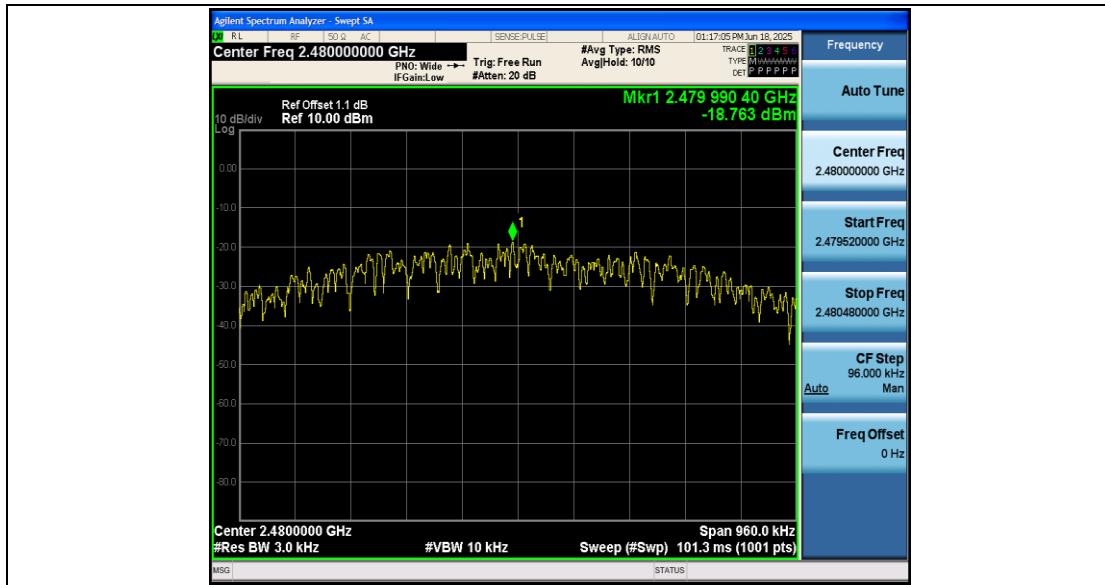
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



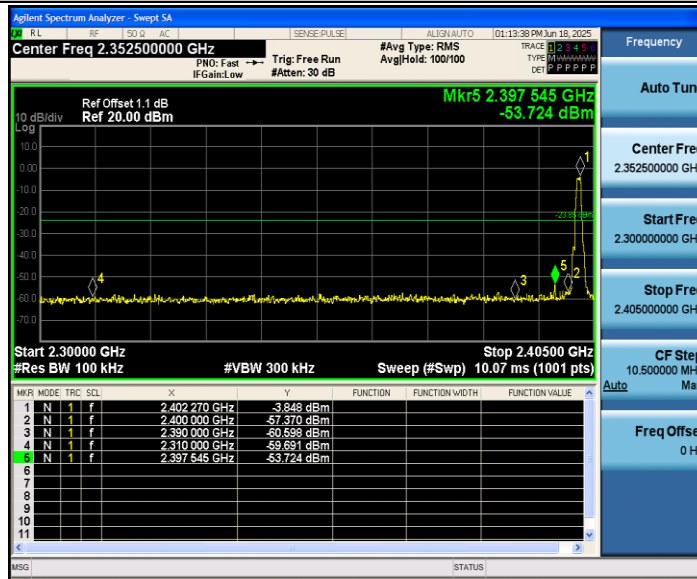
## Appendix E: Band edge measurements

### Test Result

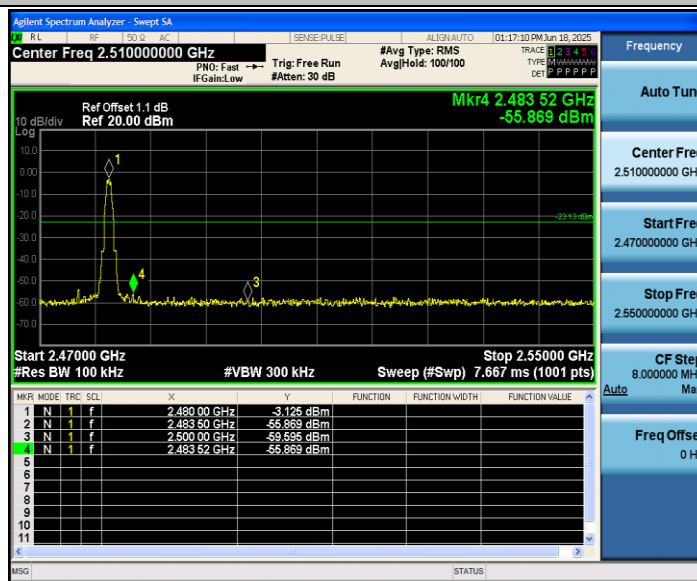
TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.85	-53.72	≤-23.85	PASS
		High	2480	-3.13	-55.87	≤-23.13	PASS

# Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480

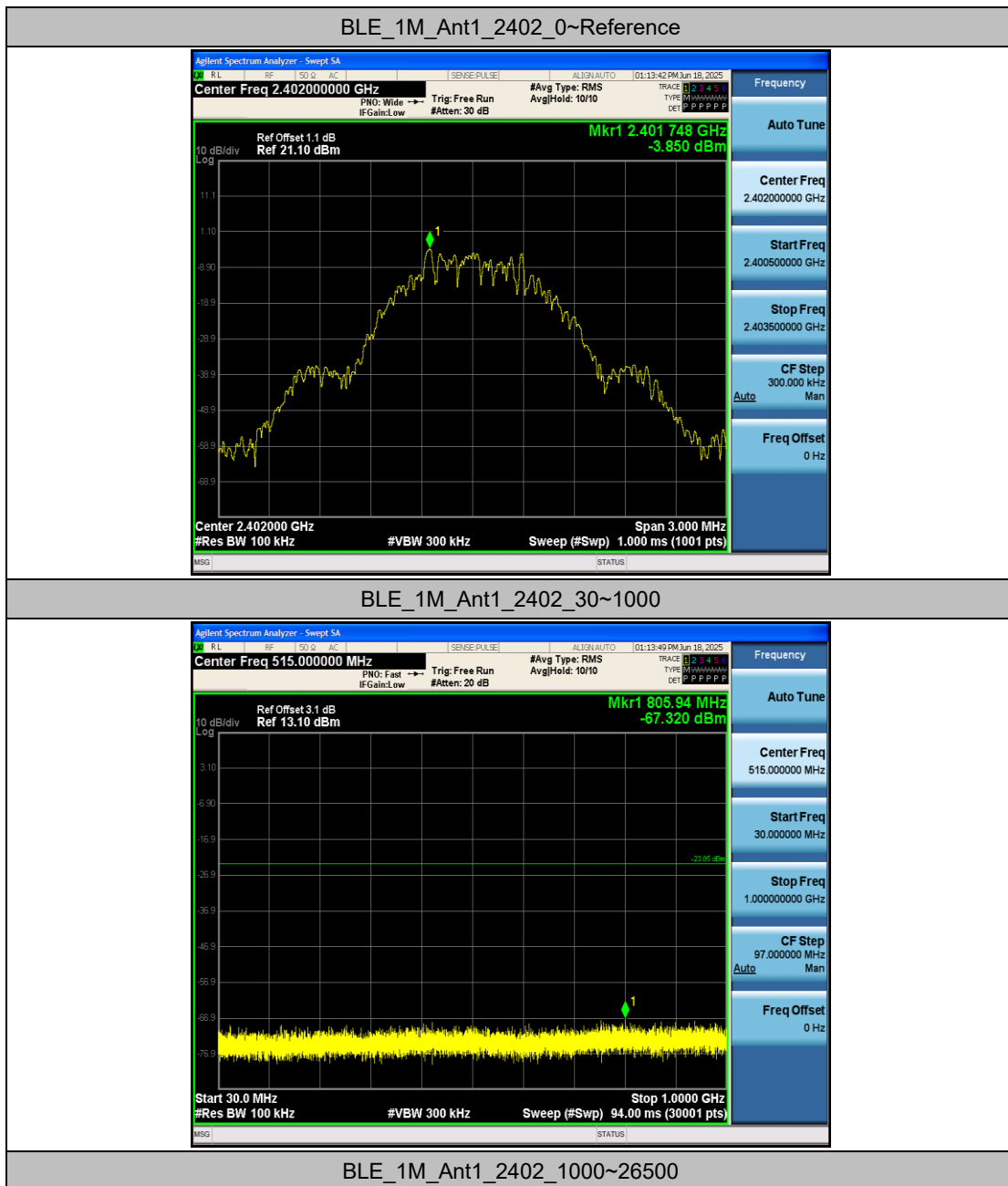


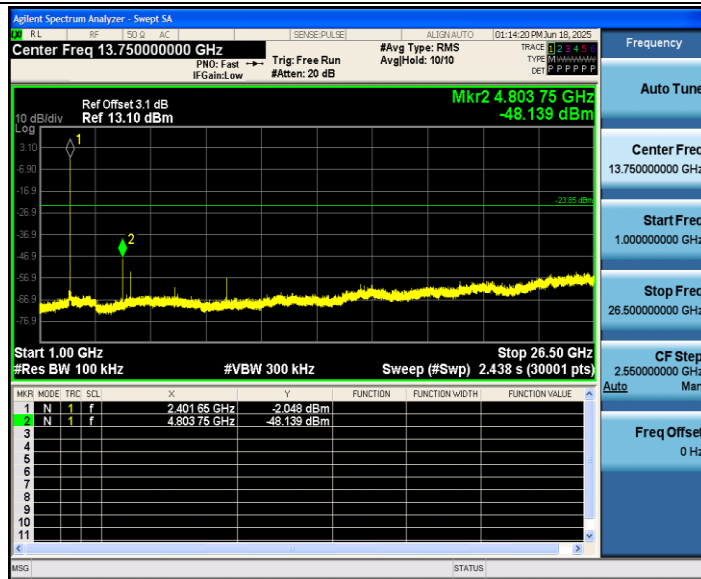
## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-67.32	≤-23.85	PASS
			1000~26500	-3.85	-48.14	≤-23.85	PASS
		2440	Reference	-4.57	-4.57	---	PASS
			30~1000	-4.57	-67.27	≤-24.57	PASS
			1000~26500	-4.57	-47.07	≤-24.57	PASS
		2480	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-67.38	≤-24.19	PASS
			1000~26500	-4.19	-46.44	≤-24.19	PASS

# Test Graphs

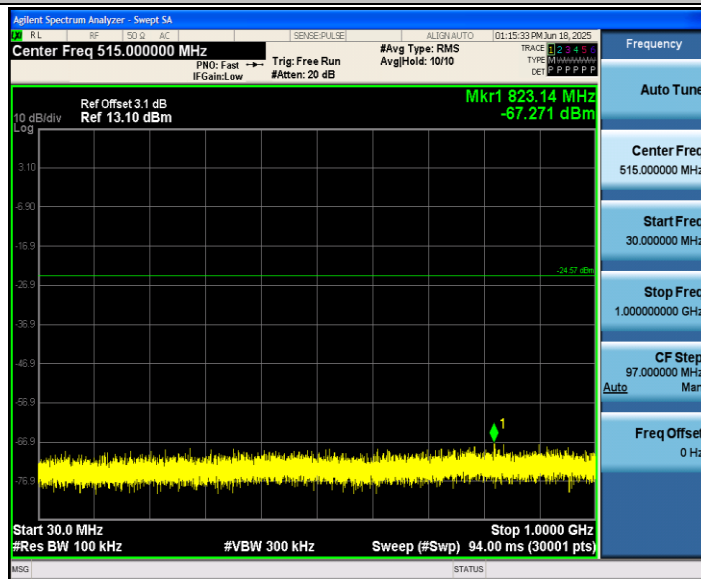




BLE\_1M\_Ant1\_2440\_0~Reference

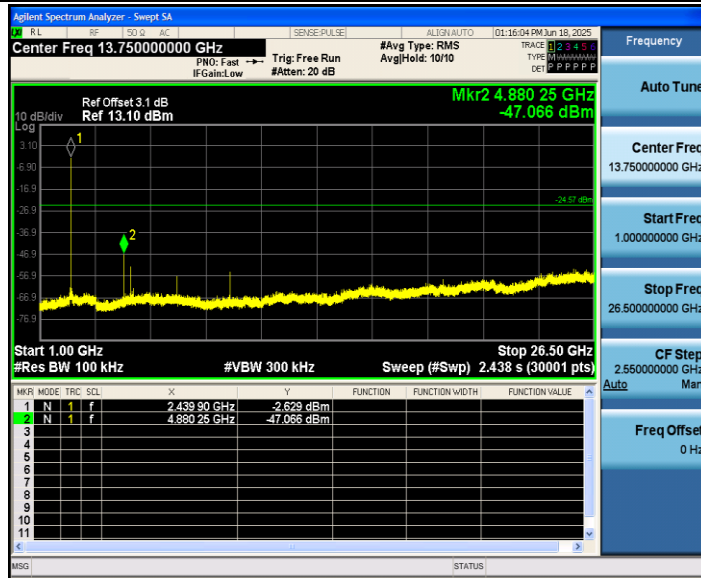


BLE\_1M\_Ant1\_2440\_30~1000





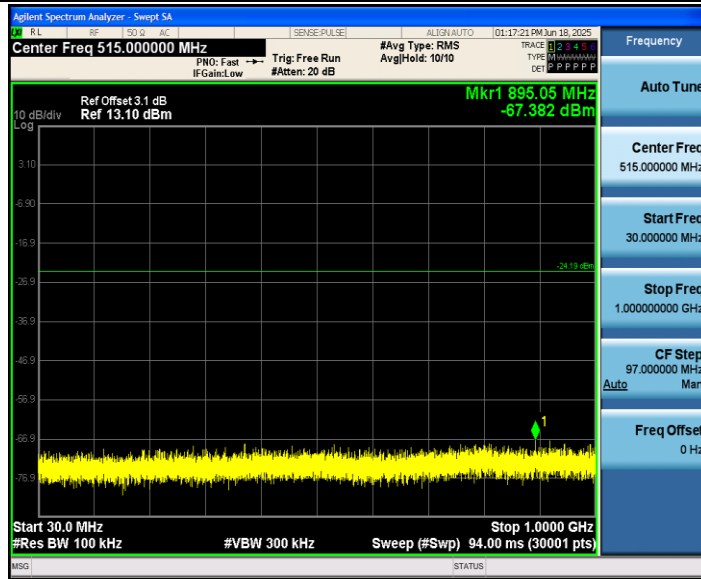
BLE\_1M\_Ant1\_2440\_1000~26500



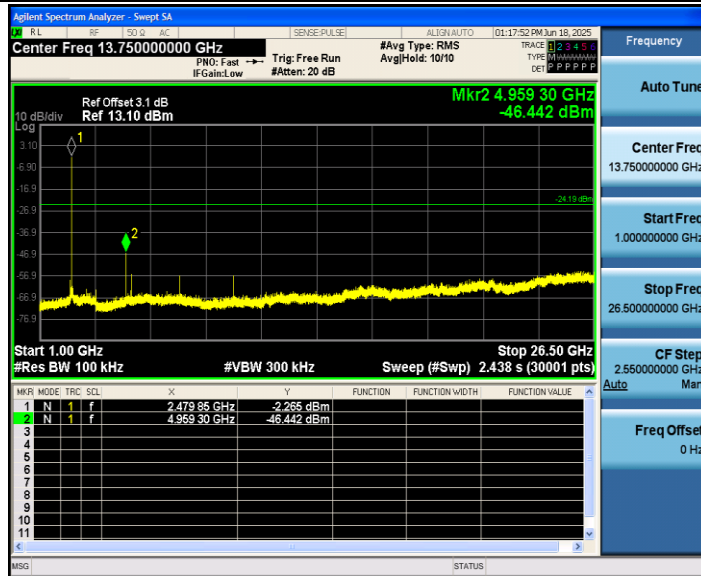
BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

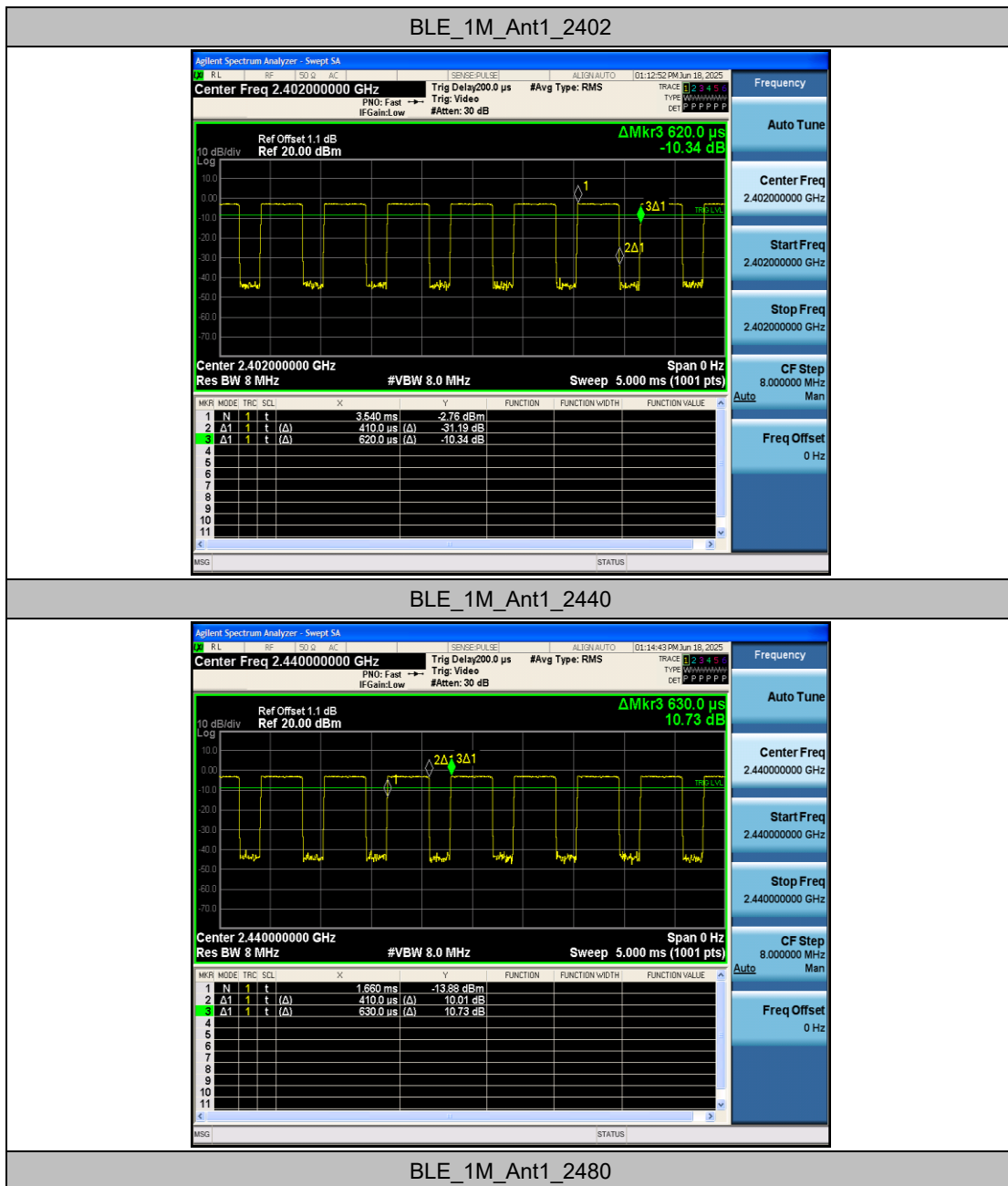


## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

# Test Graphs


**BLE\_1M\_Ant1\_2440**
**BLE\_1M\_Ant1\_2480**

