

Appendix: Bluetooth LE

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## 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	2401.652	2402.288	0.5	PASS
		2440	0.664	2439.656	2440.320	0.5	PASS
		2480	0.652	2479.692	2480.344	0.5	PASS

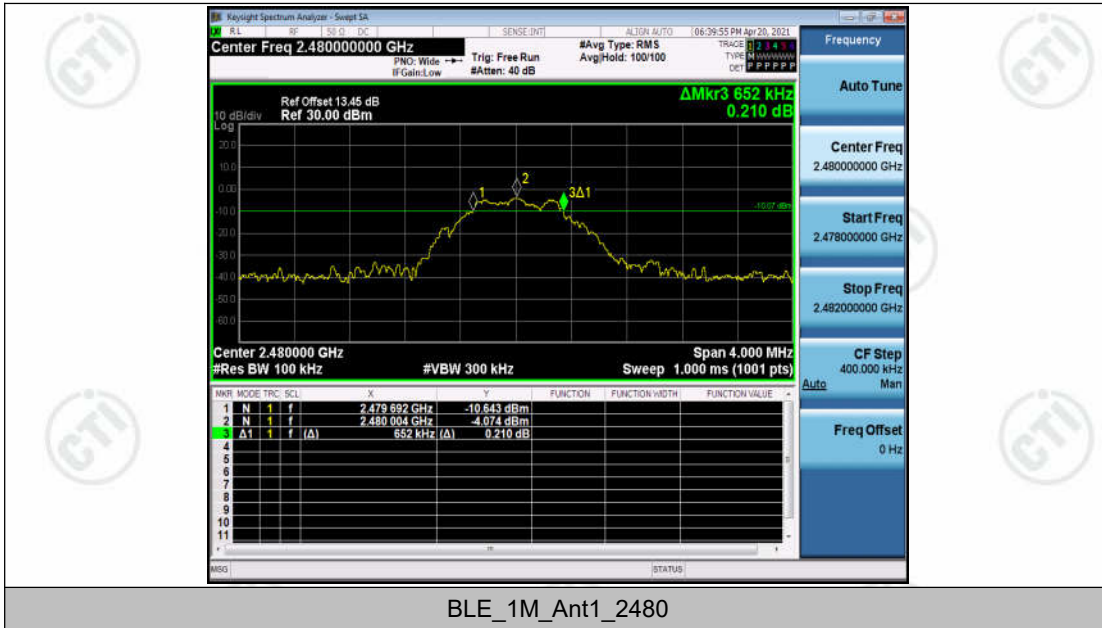
**Test Graphs**



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0547	2401.487	2402.542	---	PASS
		2440	1.0556	2439.486	2440.542	---	PASS
		2480	1.0514	2479.490	2480.542	---	PASS



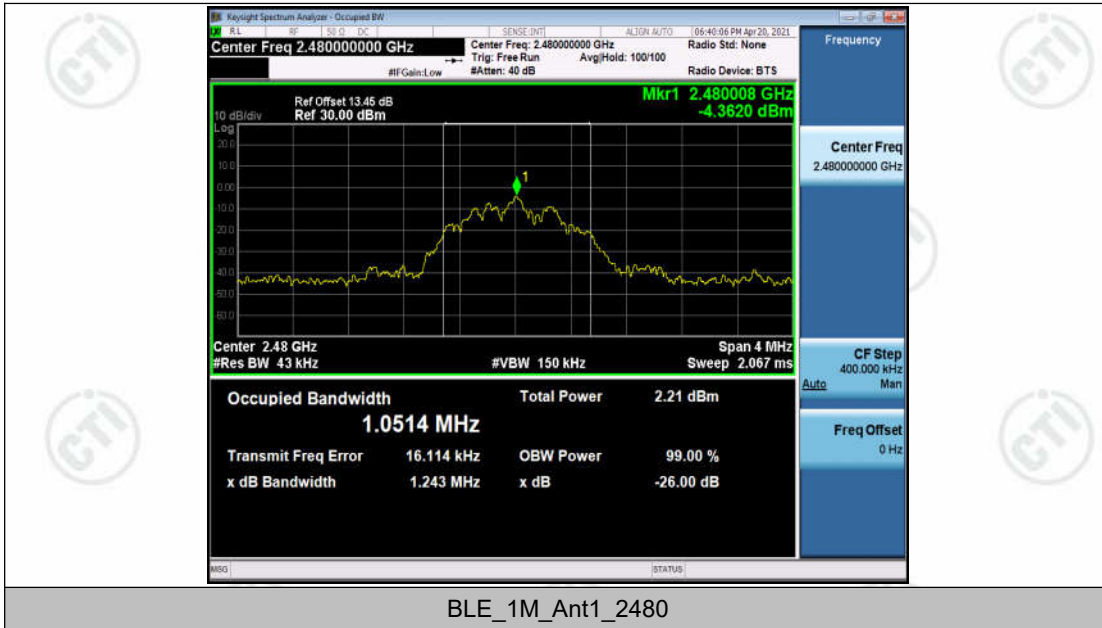
**Test Graphs**



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



## Appendix C: Maximum conducted output power

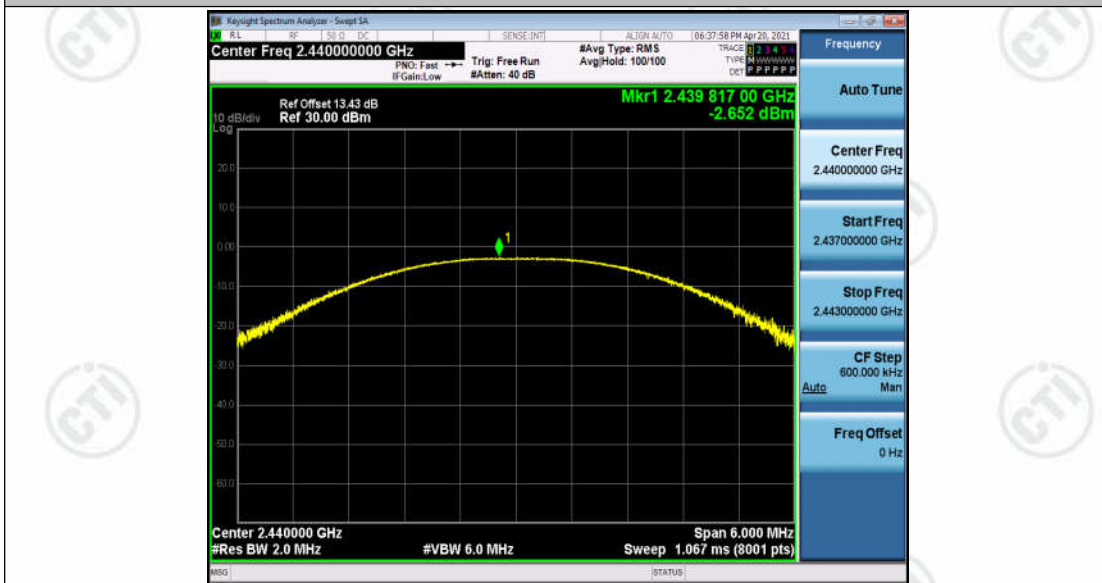
### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.79	<=30	PASS
		2440	-2.65	<=30	PASS
		2480	-3.32	<=30	PASS

**Test Graphs**



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.23	<=8	PASS
		2440	-7.78	<=8	PASS
		2480	-8.64	<=8	PASS

**Test Graphs**



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

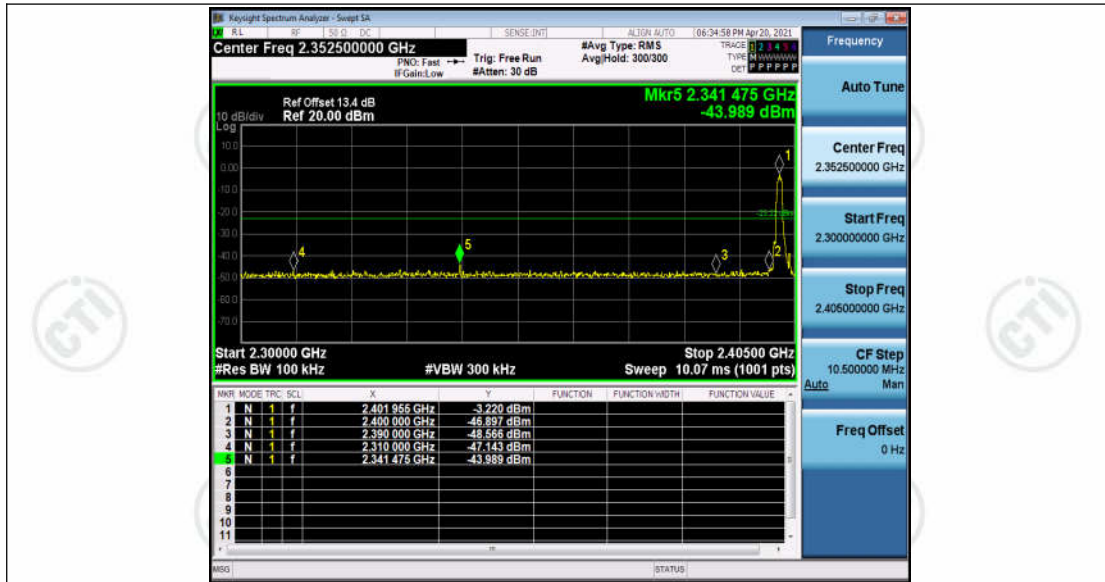


## Appendix E: Band edge measurements

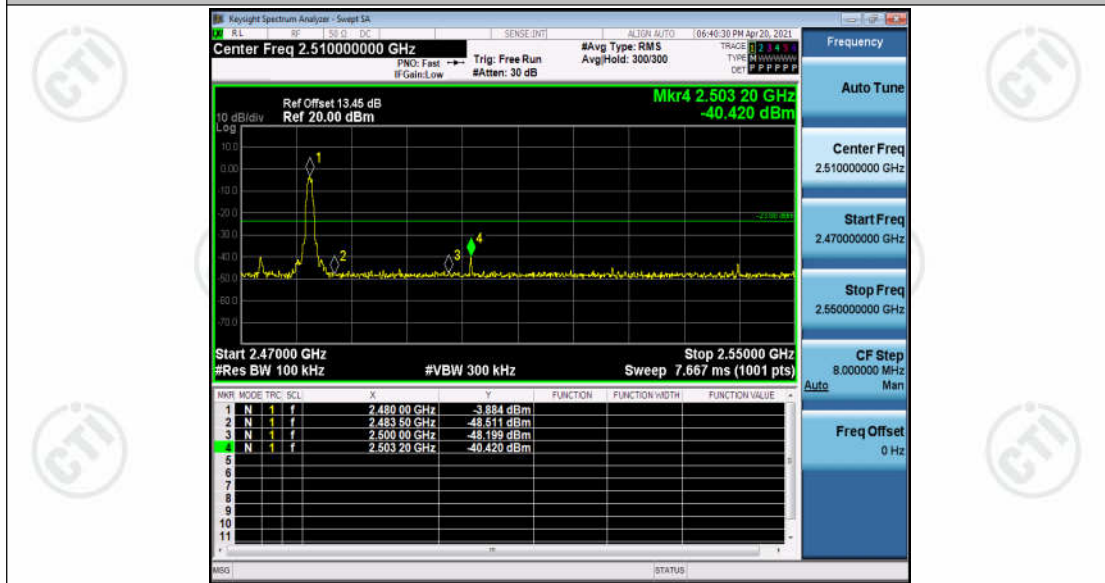
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.22	-43.99	<=-23.22	PASS
		High	2480	-3.88	-40.42	<=-23.88	PASS

Test Graphs



BLE\_1M\_Ant1\_Low\_2402



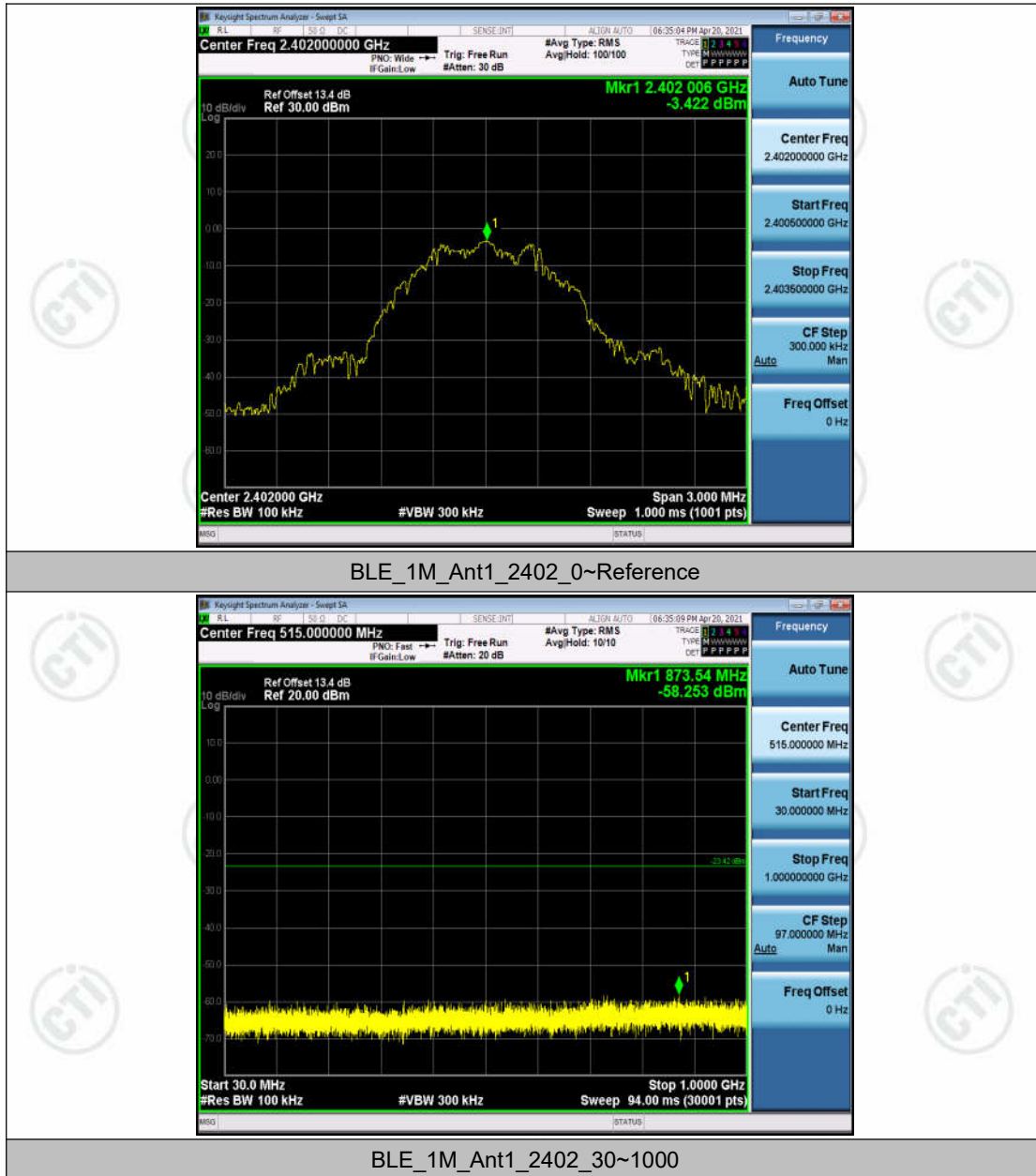
BLE\_1M\_Ant1\_High\_2480

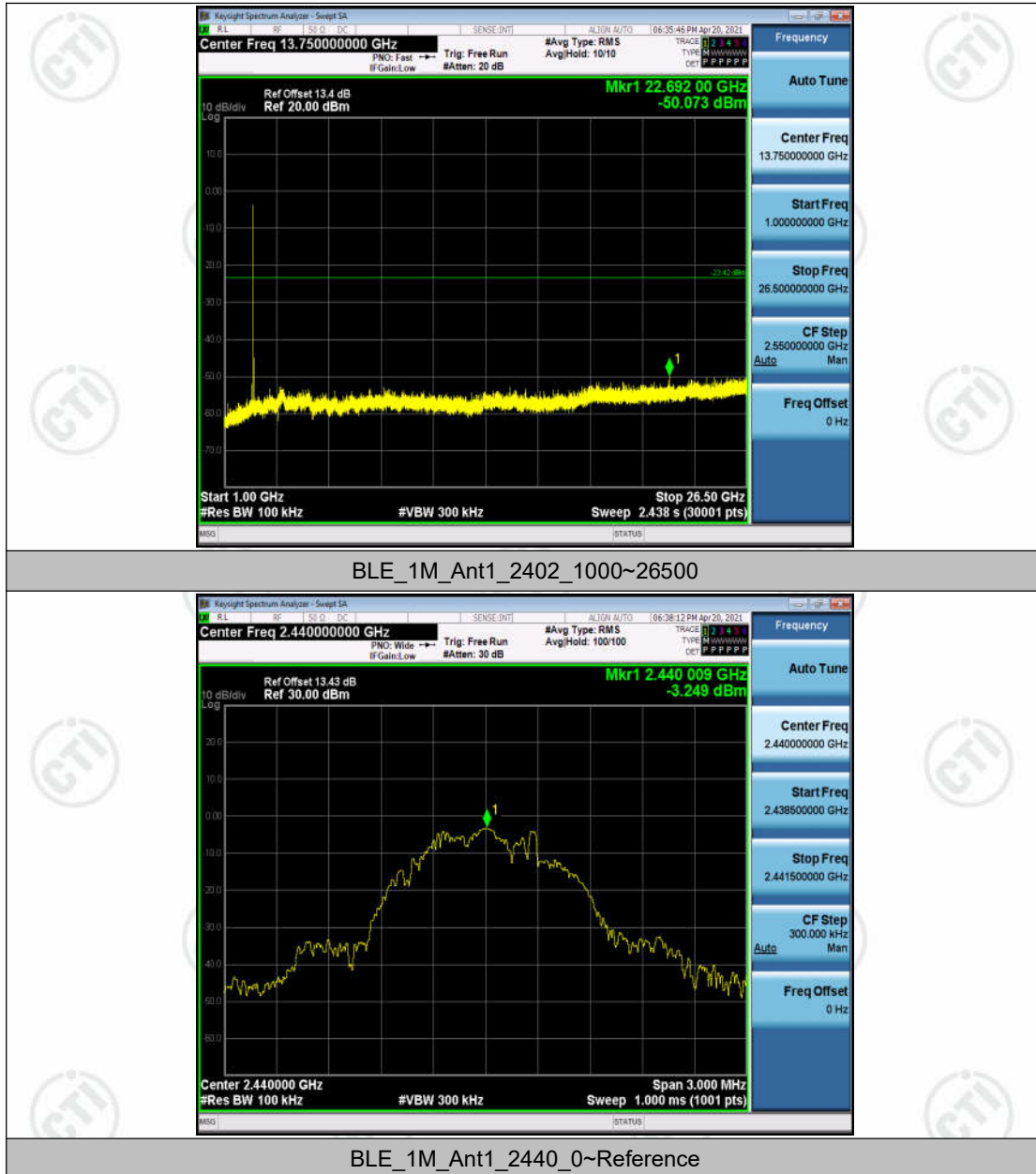
## Appendix F: Conducted Spurious Emission

### Test Result

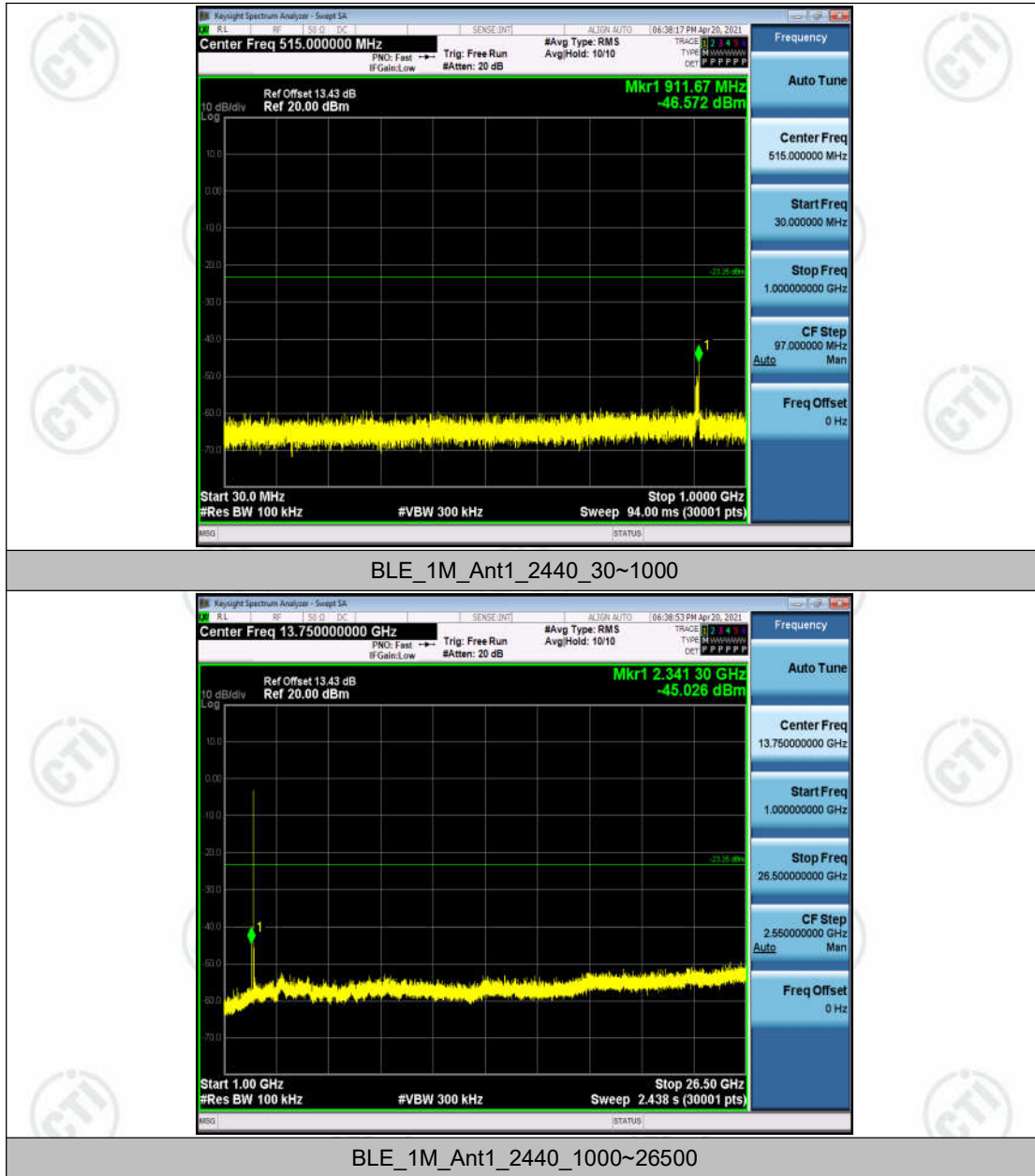
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.42	-3.42	---	PASS
			30~1000	30~1000	-58.253	<=-23.422	PASS
			1000~26500	1000~26500	-50.073	<=-23.422	PASS
		2440	Reference	-3.25	-3.25	---	PASS
			30~1000	30~1000	-46.572	<=-23.249	PASS
			1000~26500	1000~26500	-45.026	<=-23.249	PASS
		2480	Reference	-4.18	-4.18	---	PASS
			30~1000	30~1000	-57.622	<=-24.178	PASS
			1000~26500	1000~26500	-49.142	<=-24.178	PASS

**Test Graphs**

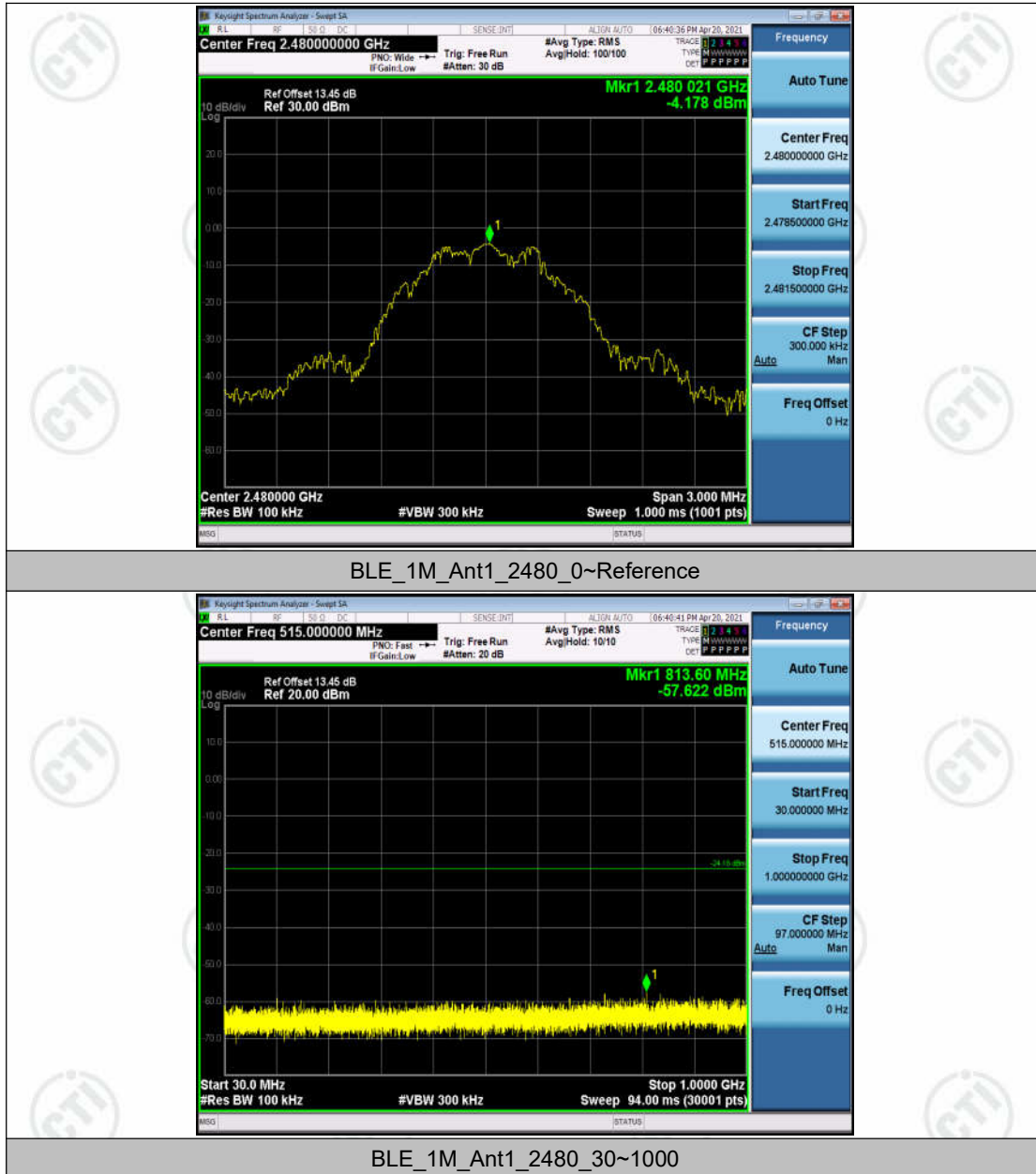


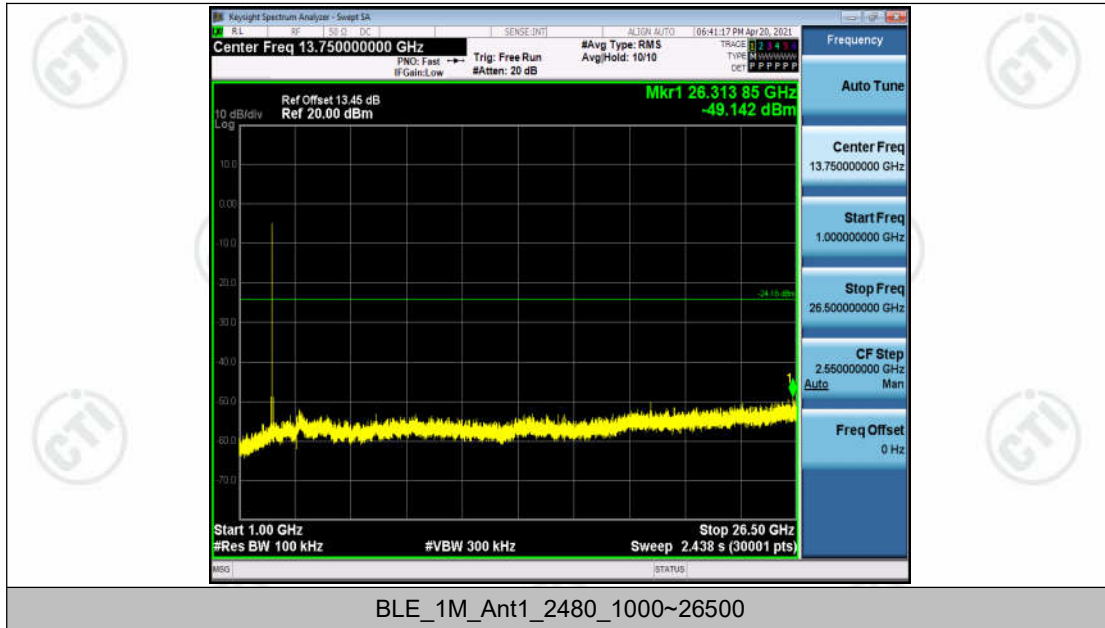










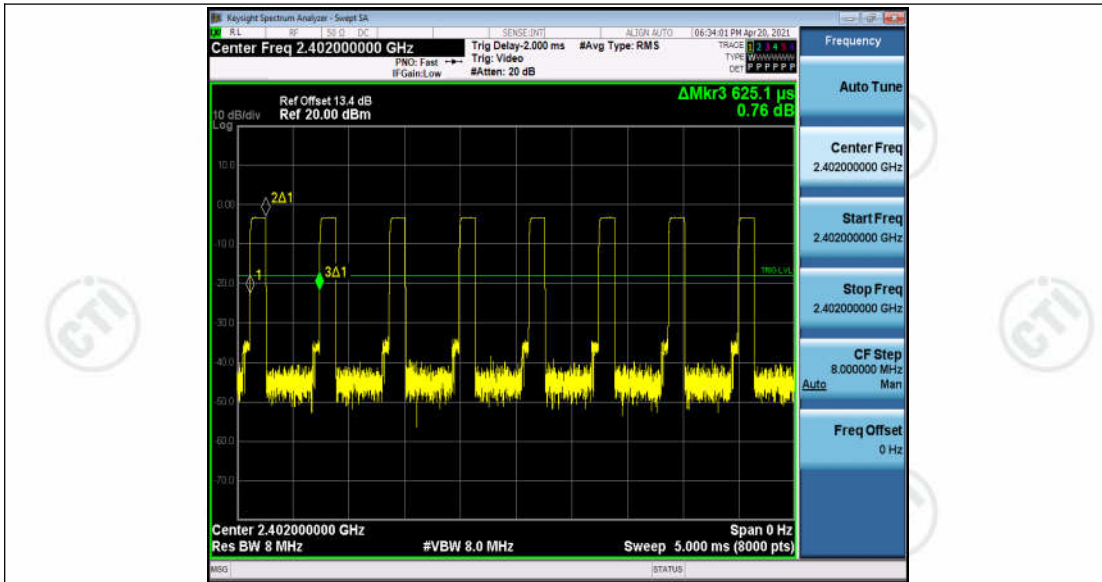


## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.15	0.63	23.20	---	PASS
		2440	0.15	0.63	23.20	---	PASS
		2480	0.15	0.63	23.30	---	PASS

Test Graphs



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440

