

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth.....	3
Test Result.....	3
Test Graphs.....	4
Appendix B: Occupied Channel Bandwidth.....	6
Test Result.....	6
Test Graphs.....	7
Appendix C: Maximum conducted output power.....	9
Test Result.....	9
Test Graphs.....	10
Appendix D: Maximum power spectral density.....	12
Test Result.....	12
Test Graphs.....	13
Appendix E: Band edge measurements.....	15
Test Result.....	15
Test Graphs.....	16
Appendix F: Conducted Spurious Emission.....	17
Test Result.....	17
Test Graphs.....	18
Appendix G: Duty Cycle.....	23
Test Result.....	23
Test Graphs.....	24

Appendix A: DTS Bandwidth**Test Result**

Test Mode	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	2402	0.640	2401.672	2402.312	0.5	PASS
	2440	0.636	2439.670	2440.306	0.5	PASS
	2480	0.640	2479.674	2480.314	0.5	PASS

Test Graphs



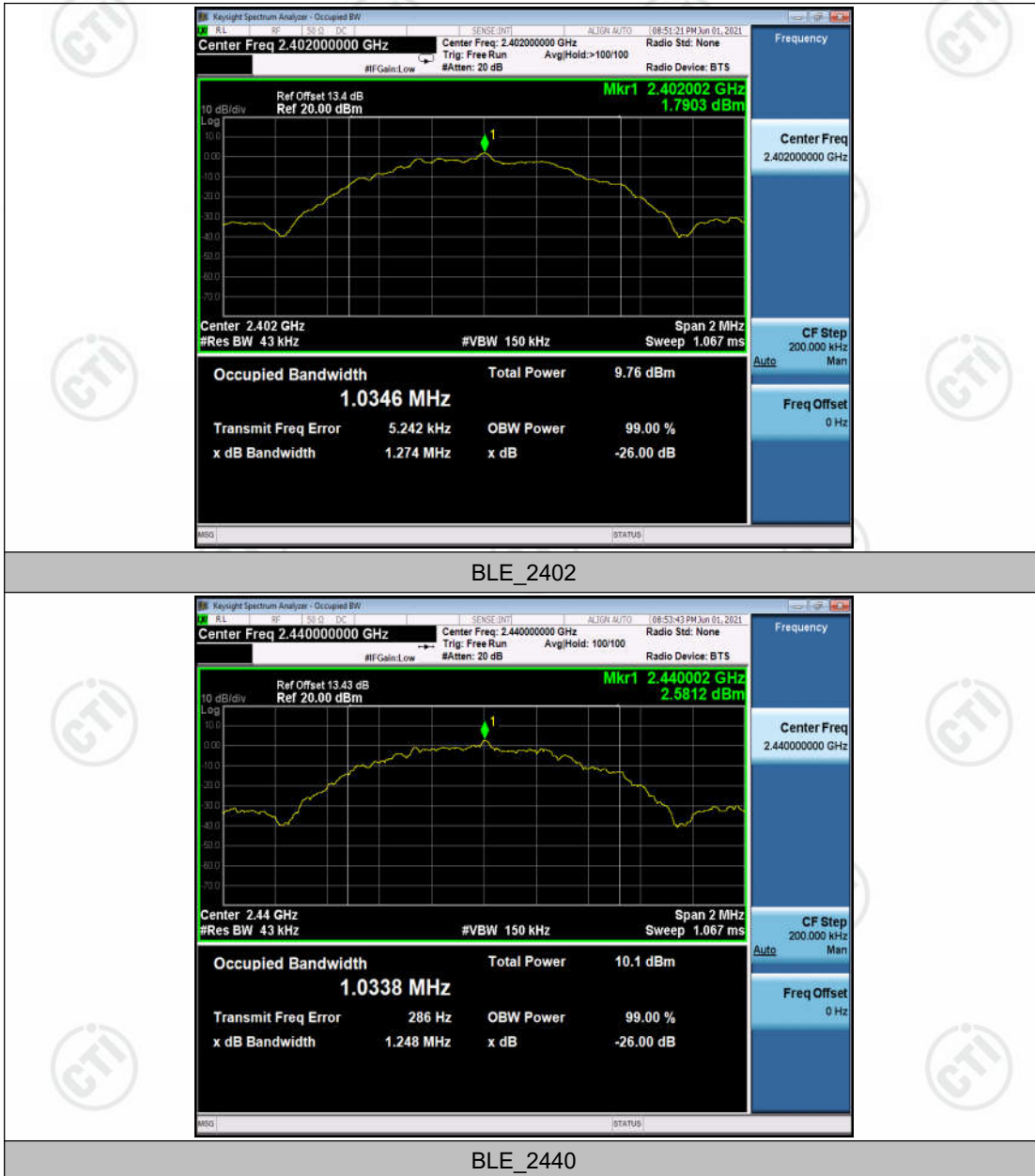


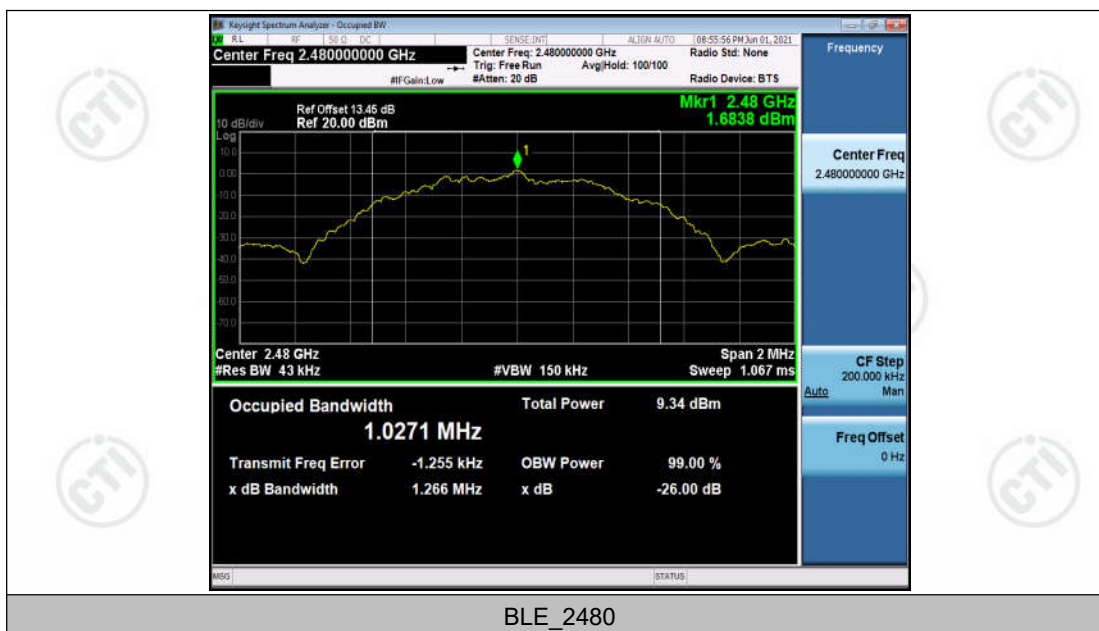
BLE_2480

Appendix B: Occupied Channel Bandwidth**Test Result**

Test Mode	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	2402	1.0343	2401.488	2402.522	---	PASS
	2440	1.0338	2439.483	2440.517	---	PASS
	2480	1.0271	2479.485	2480.512	---	PASS

Test Graphs



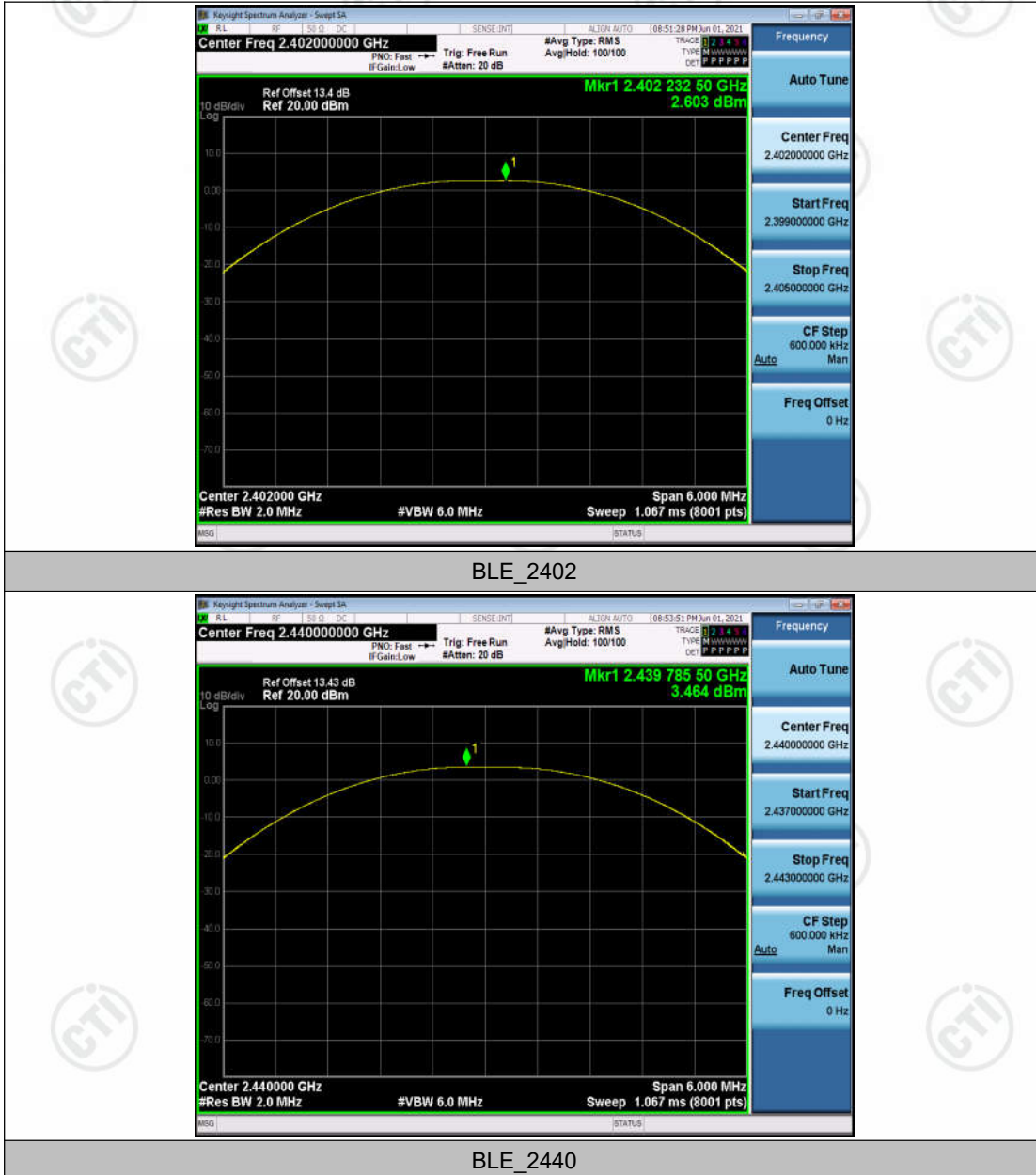


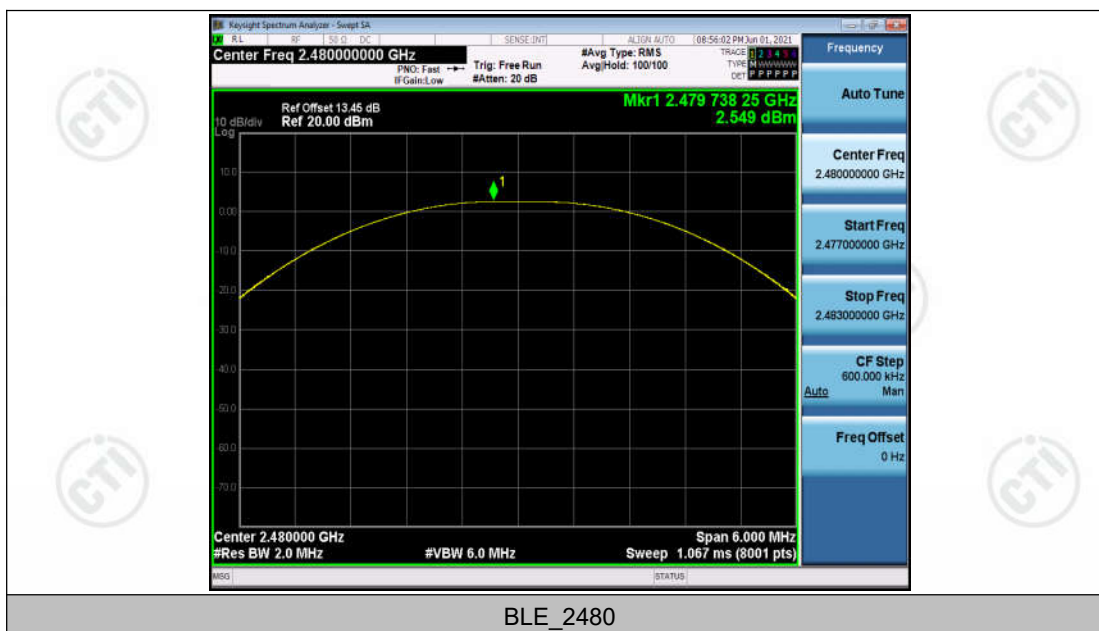
BLE_2480

Appendix C: Maximum conducted output power**Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	2.6	<=30	PASS
		2440	3.46	<=30	PASS
		2480	2.55	<=30	PASS

Test Graphs

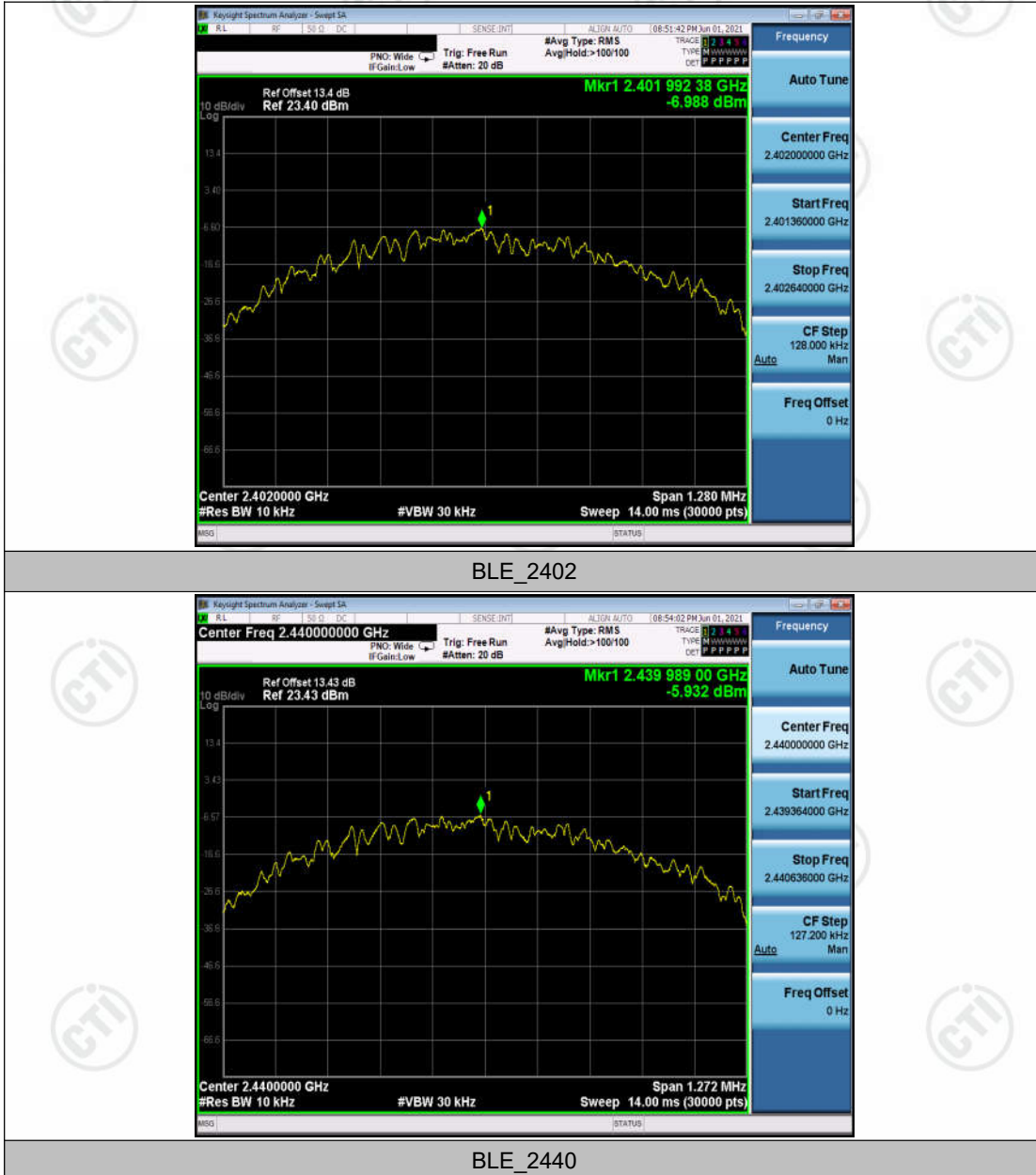




Appendix D: Maximum power spectral density**Test Result**

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-6.99	<=8	PASS
		2440	-5.93	<=8	PASS
		2480	-6.94	<=8	PASS

Test Graphs

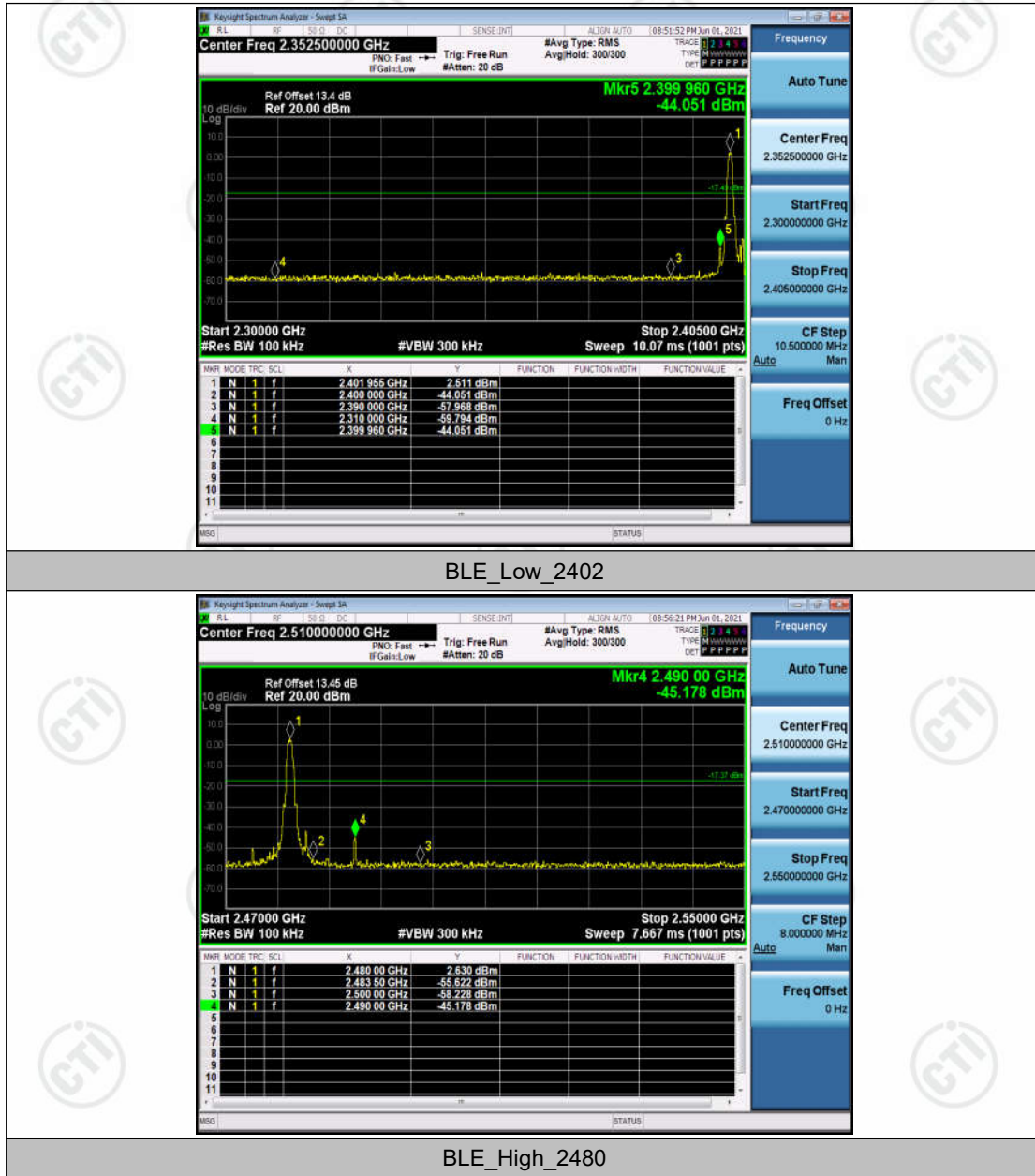




Appendix E: Band edge measurements**Test Result**

Test Mode	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Low	2402	2.51	-44.05	≤ -17.49	PASS
	High	2480	2.63	-45.18	≤ -17.37	PASS

Test Graphs

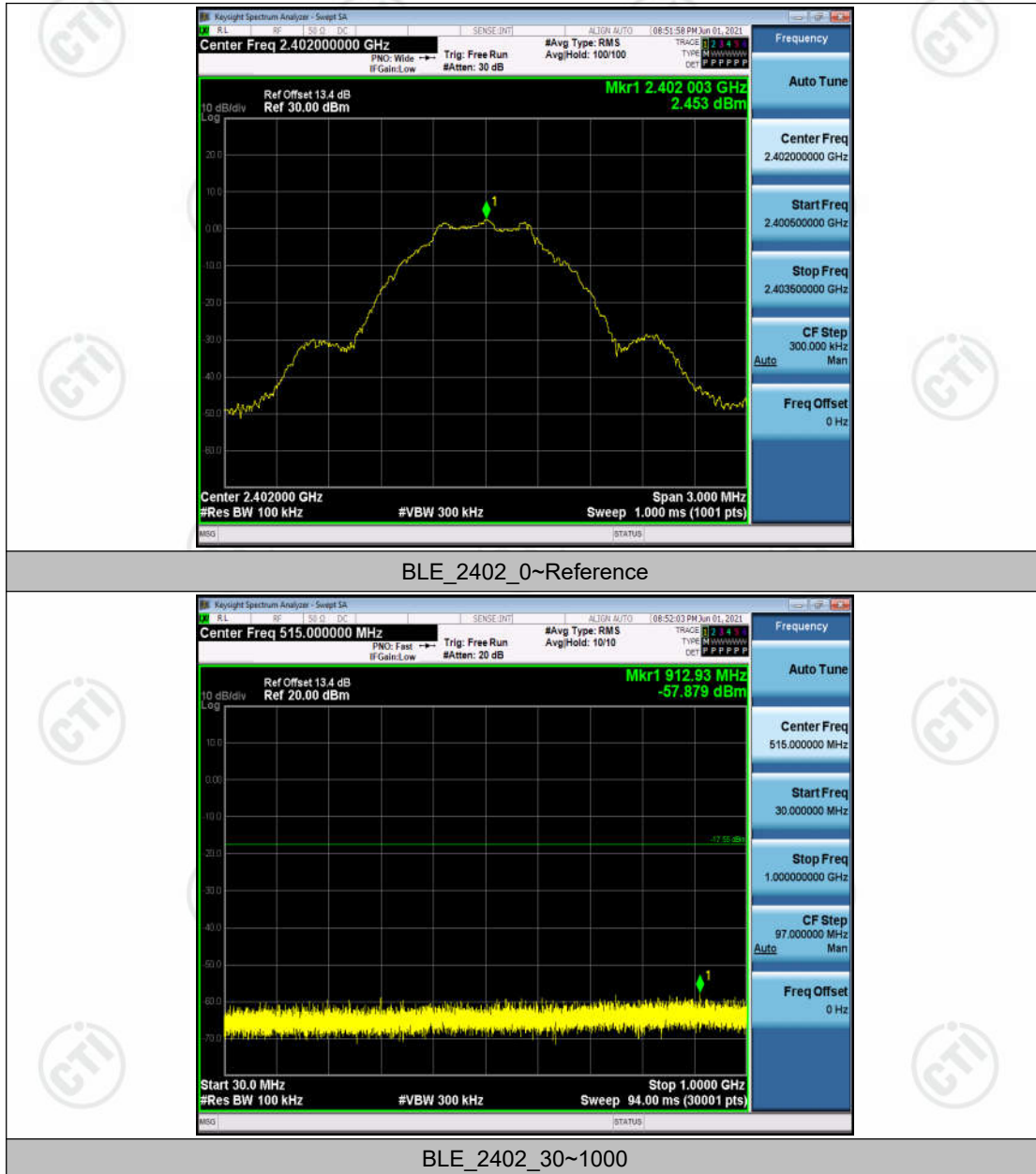


Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	2402	Reference	2.45	2.45	---	PASS
		30~1000	30~1000	-57.879	<=-17.547	PASS
		1000~26500	1000~26500	-49.08	<=-17.547	PASS
	2440	Reference	3.23	3.23	---	PASS
		30~1000	30~1000	-57.572	<=-16.768	PASS
		1000~26500	1000~26500	-49.183	<=-16.768	PASS
	2480	Reference	2.32	2.32	---	PASS
		30~1000	30~1000	-58.072	<=-17.685	PASS
		1000~26500	1000~26500	-49.472	<=-17.685	PASS

Test Graphs

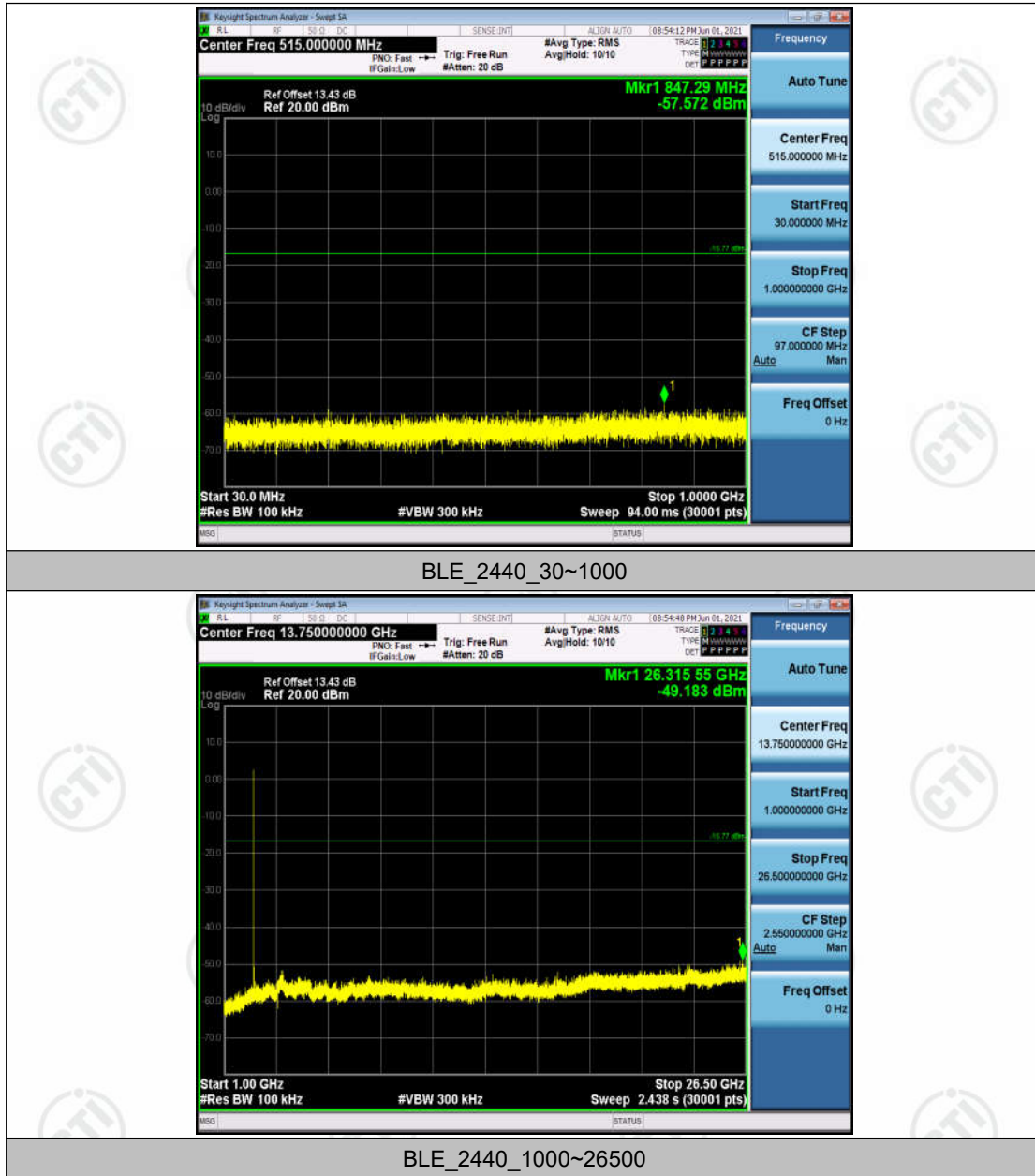


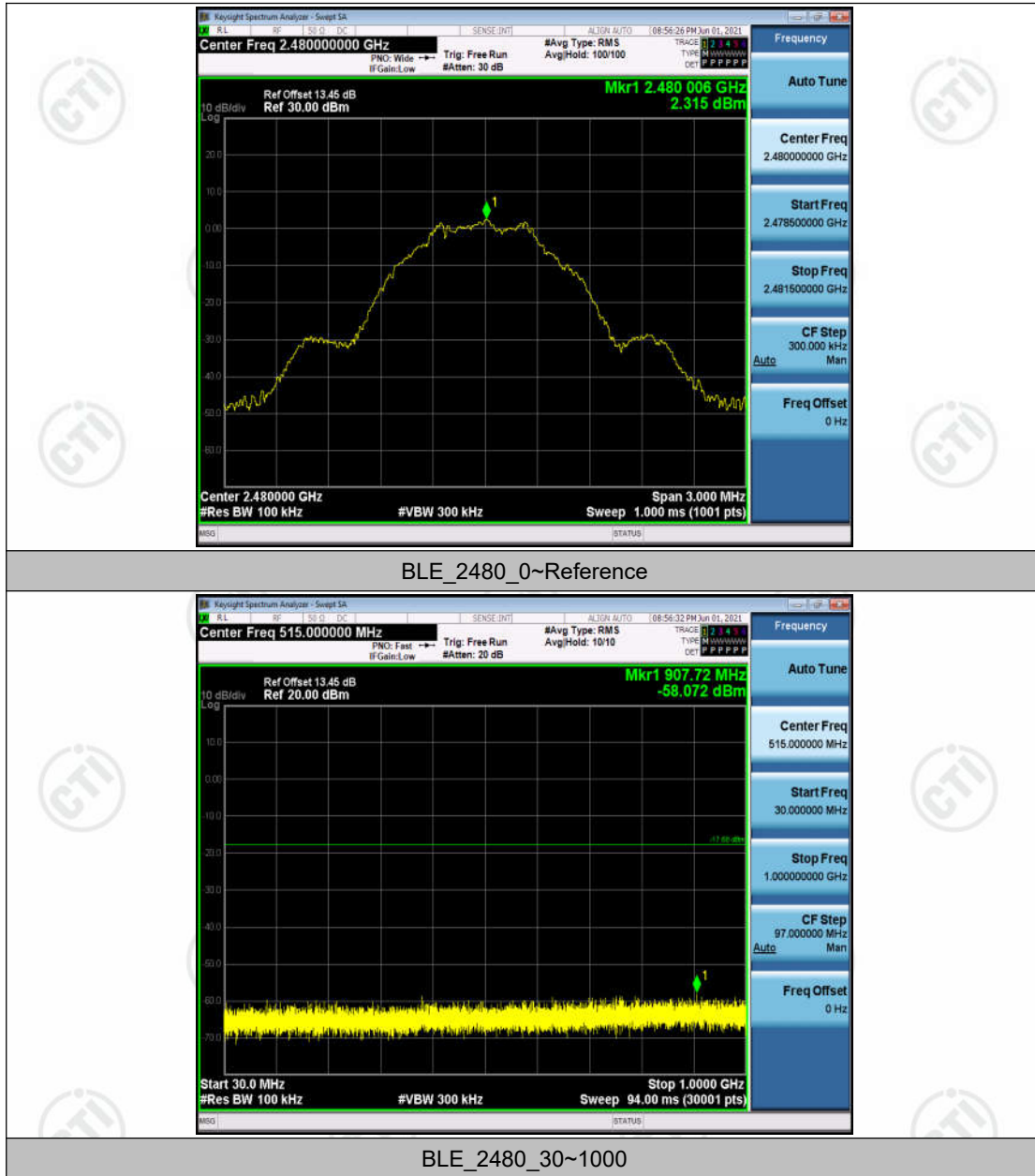


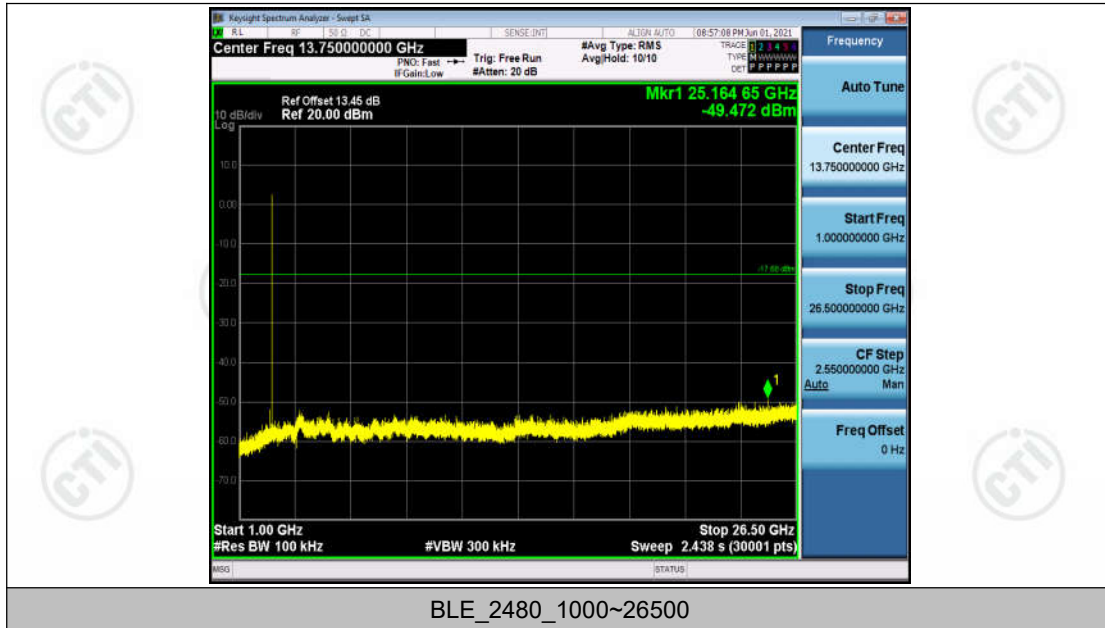
BLE_2402_1000~26500



BLE_2440_0~Reference





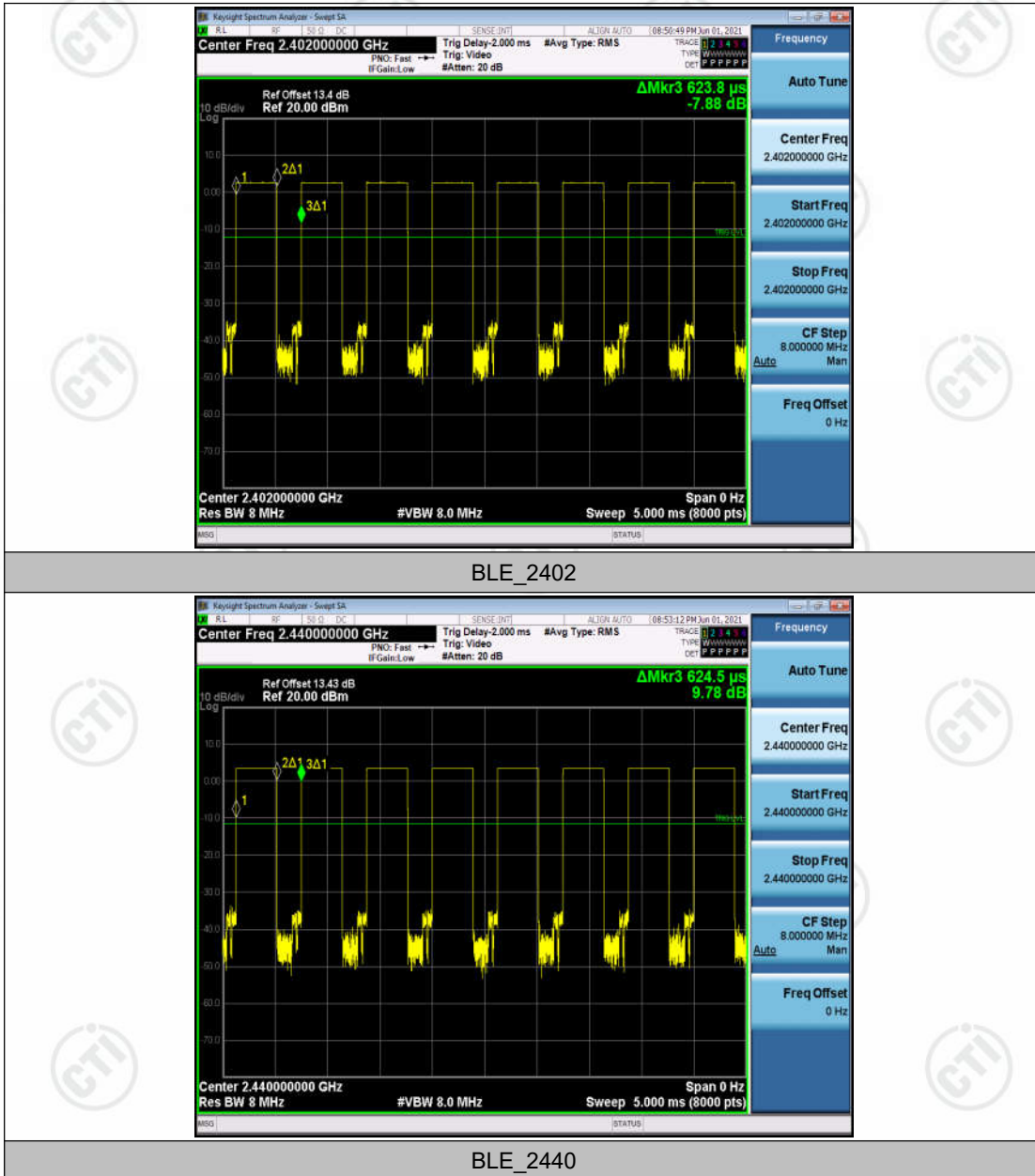


Appendix G: Duty Cycle

Test Result

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE	2402	0.39	0.62	62.53	---	PASS
	2440	0.39	0.62	62.56	---	PASS
	2480	0.39	0.62	62.53	---	PASS

Test Graphs





*** End of Report ***