

Appendix: Bluetooth LE

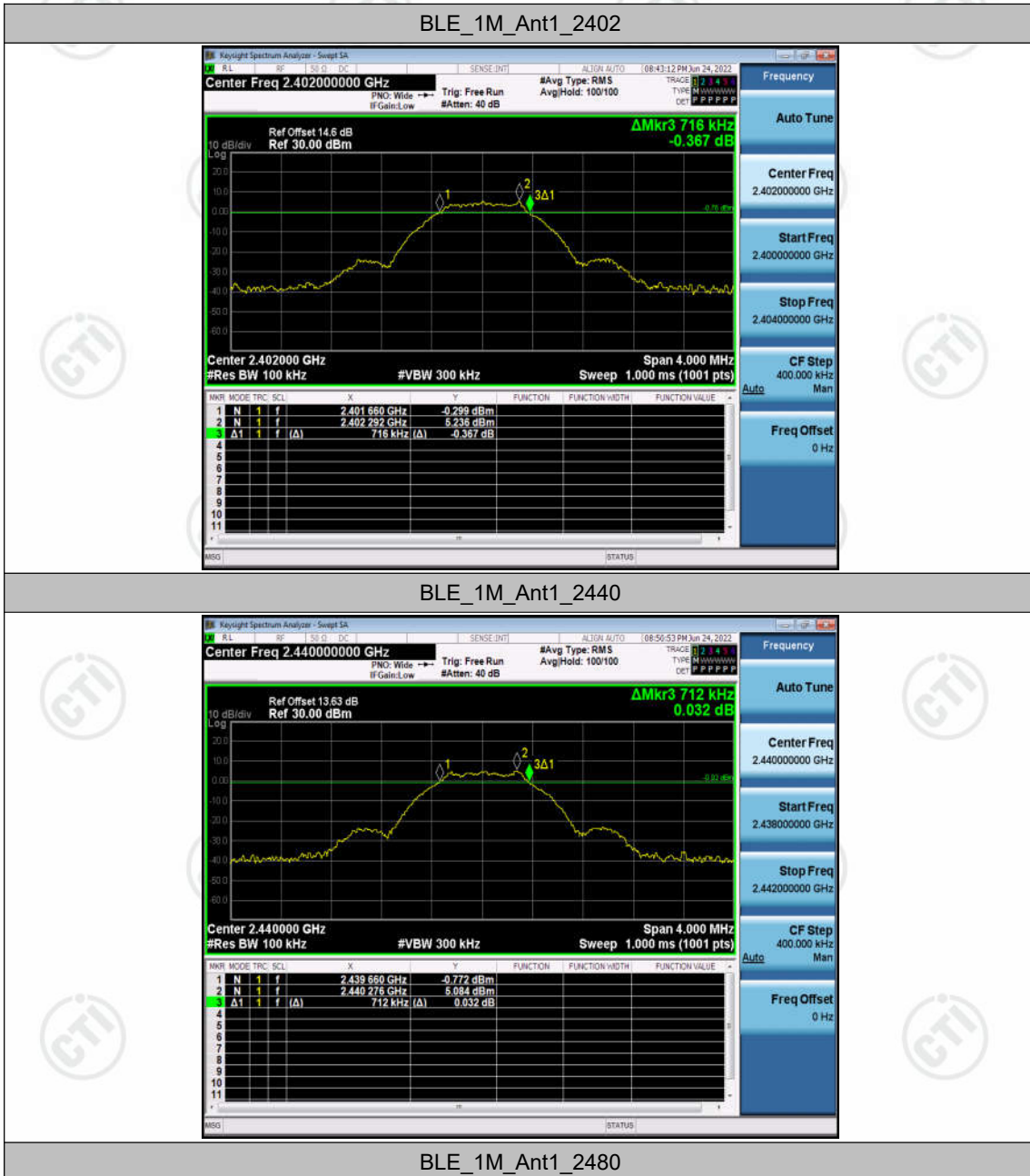
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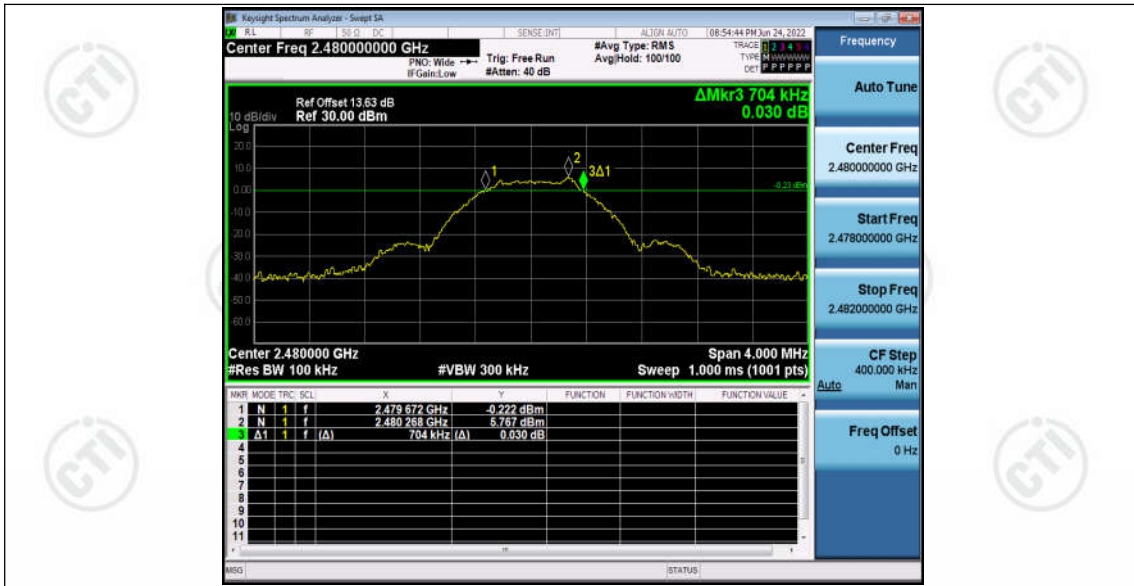
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Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.660	2402.376	0.5	PASS
		2440	0.712	2439.660	2440.372	0.5	PASS
		2480	0.704	2479.672	2480.376	0.5	PASS
BLE_2M	Ant1	2402	1.344	2401.340	2402.684	0.5	PASS
		2440	1.308	2439.384	2440.692	0.5	PASS
		2480	1.372	2479.340	2480.712	0.5	PASS

Test Graphs

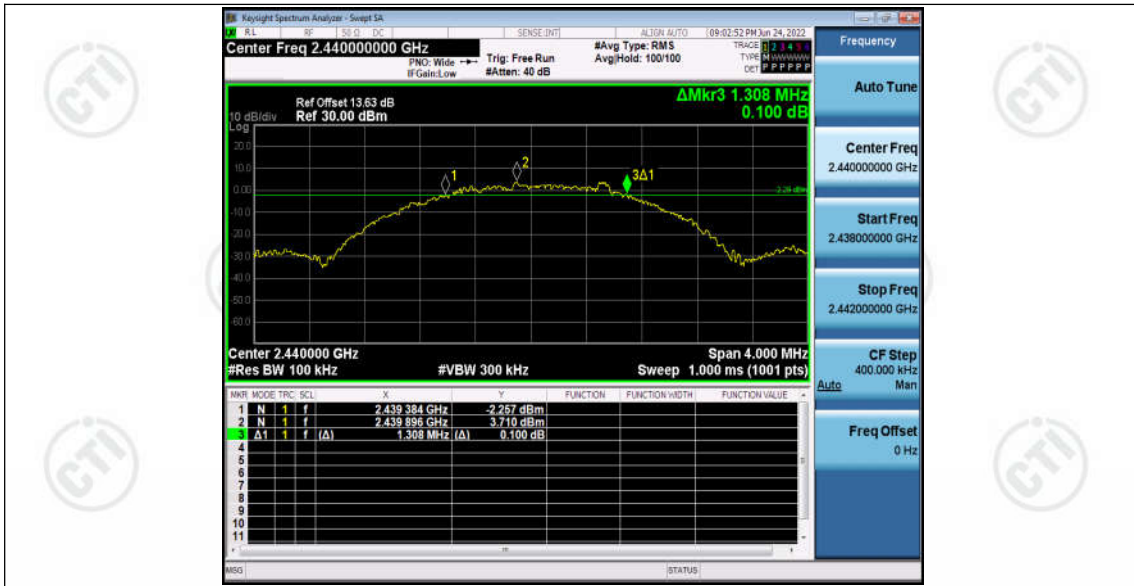




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



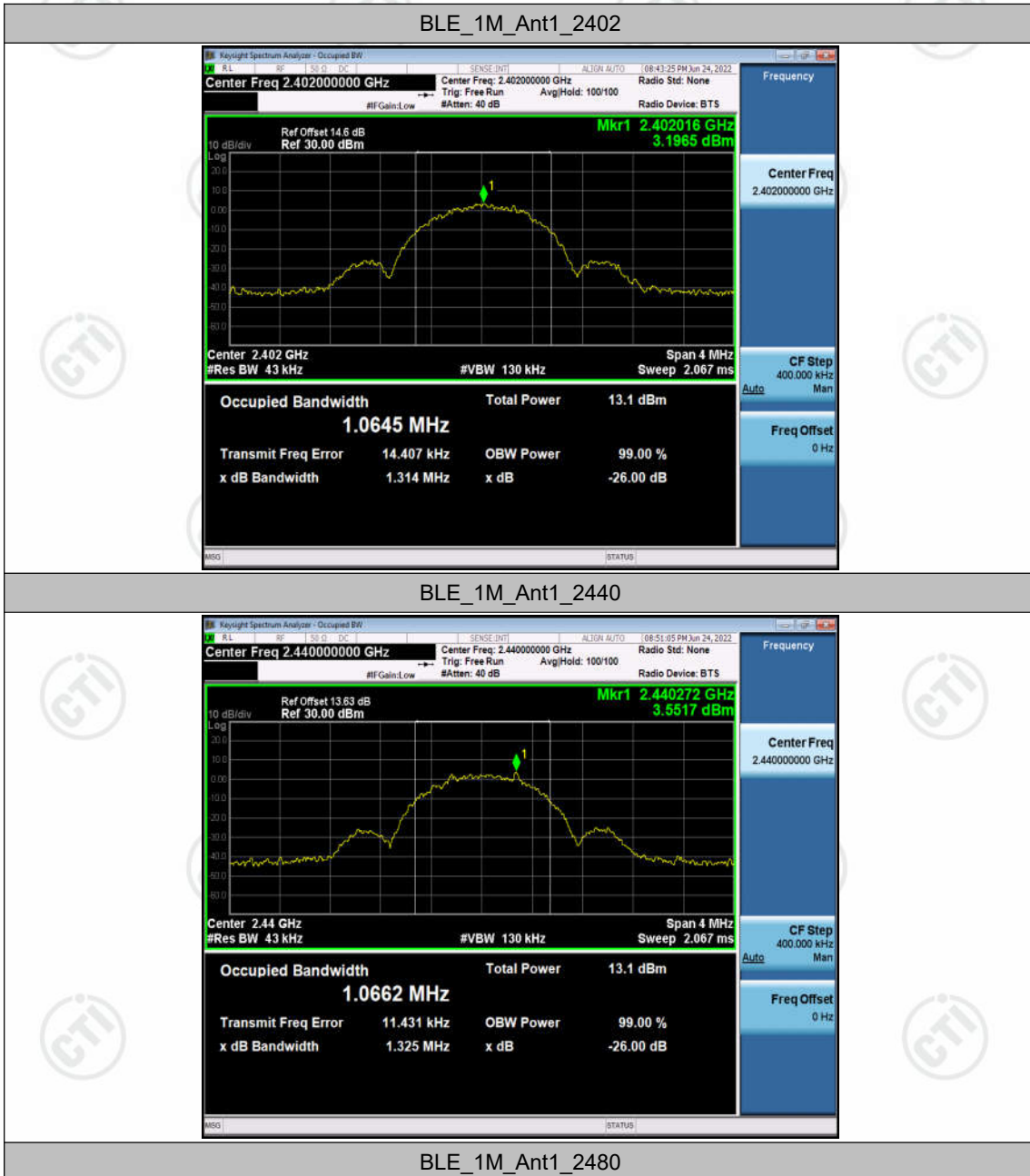
BLE_2M_Ant1_2480



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

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0645	2401.482	2402.547	---	---
		2440	1.0662	2439.478	2440.545	---	---
		2480	1.0792	2479.476	2480.555	---	---
BLE_2M	Ant1	2402	2.0599	2400.977	2403.037	---	---
		2440	2.0808	2438.958	2441.038	---	---
		2480	2.0837	2478.962	2481.045	---	---

Test Graphs





BLE_2M_Ant1_2402



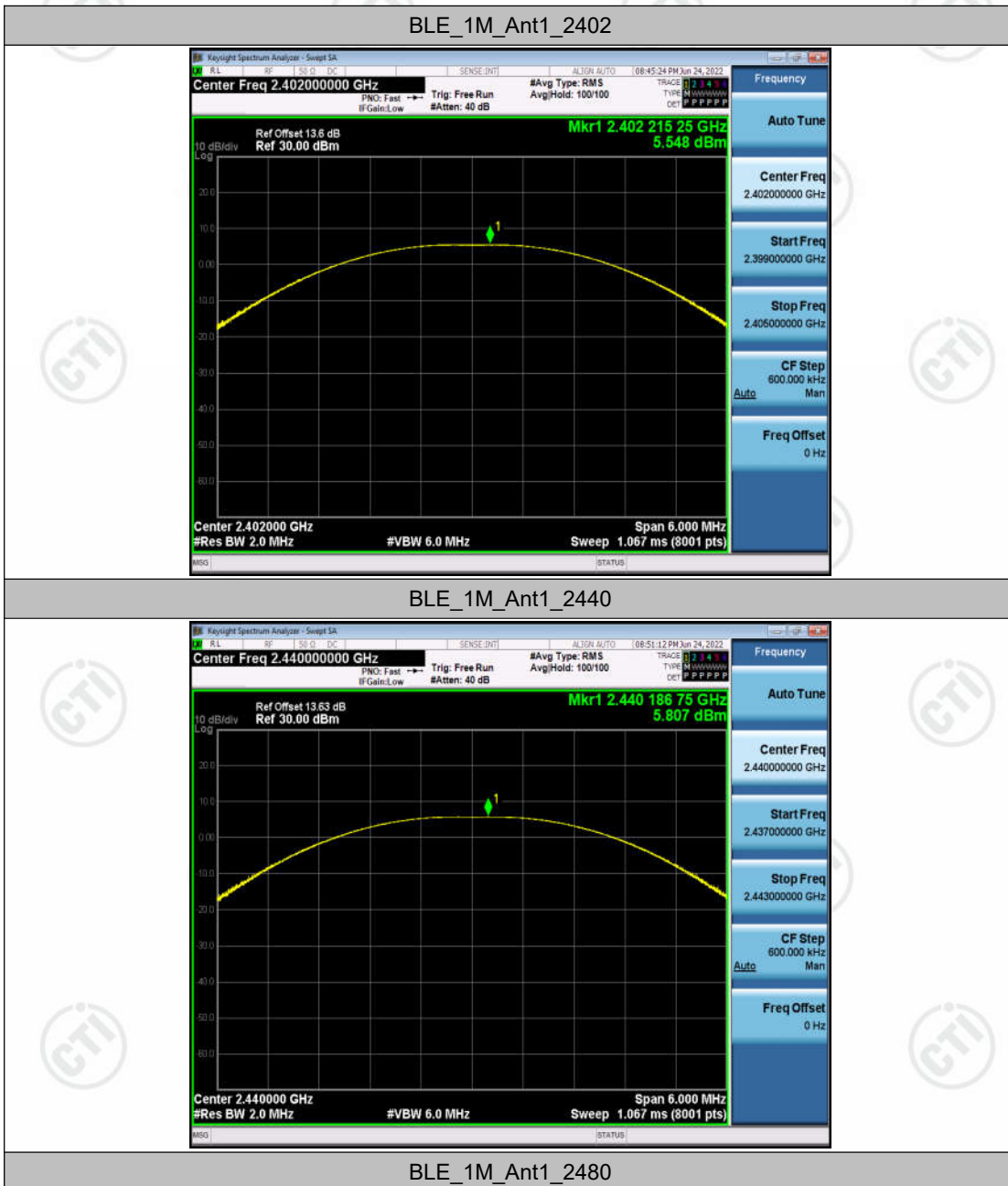
BLE_2M_Ant1_2440

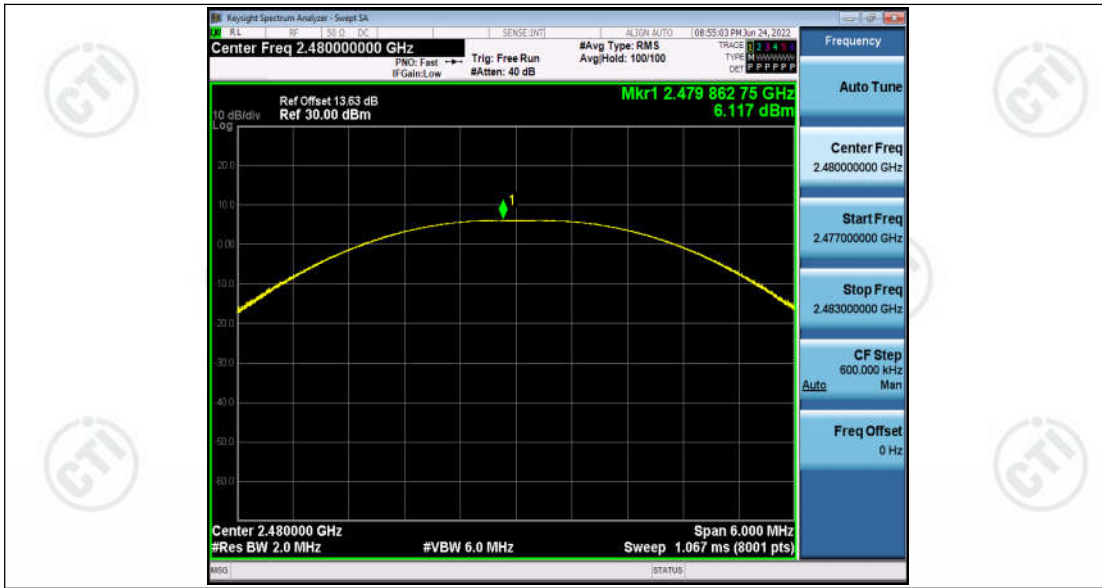


Appendix C: Maximum conducted output power**Test Result Peak**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.55	≤30	PASS
		2440	5.81	≤30	PASS
		2480	6.12	≤30	PASS
BLE_2M	Ant1	2402	5.56	≤30	PASS
		2440	5.81	≤30	PASS
		2480	6.08	≤30	PASS

Test Graphs Peak

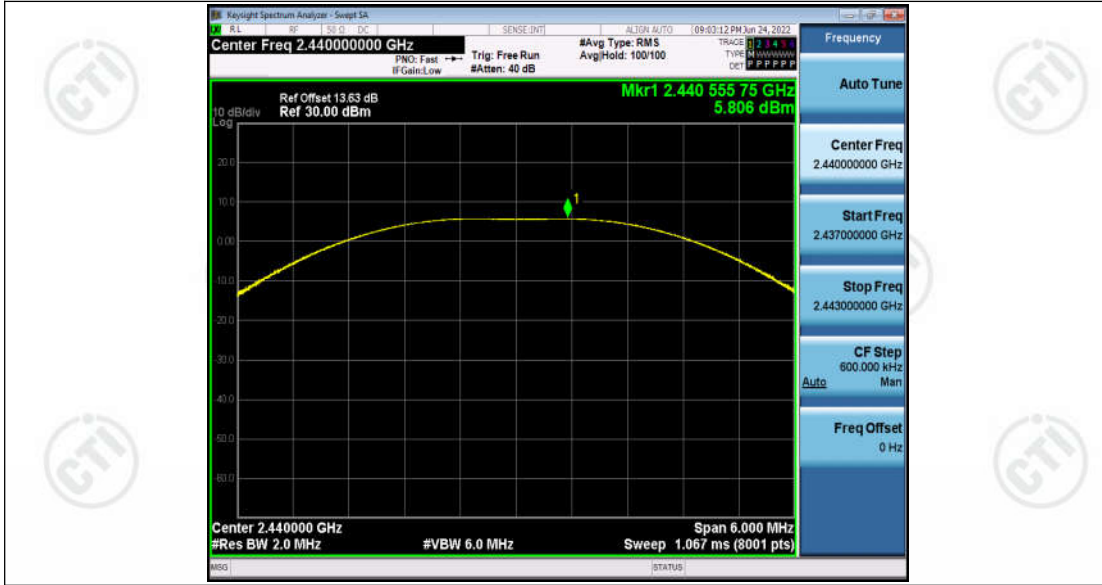




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



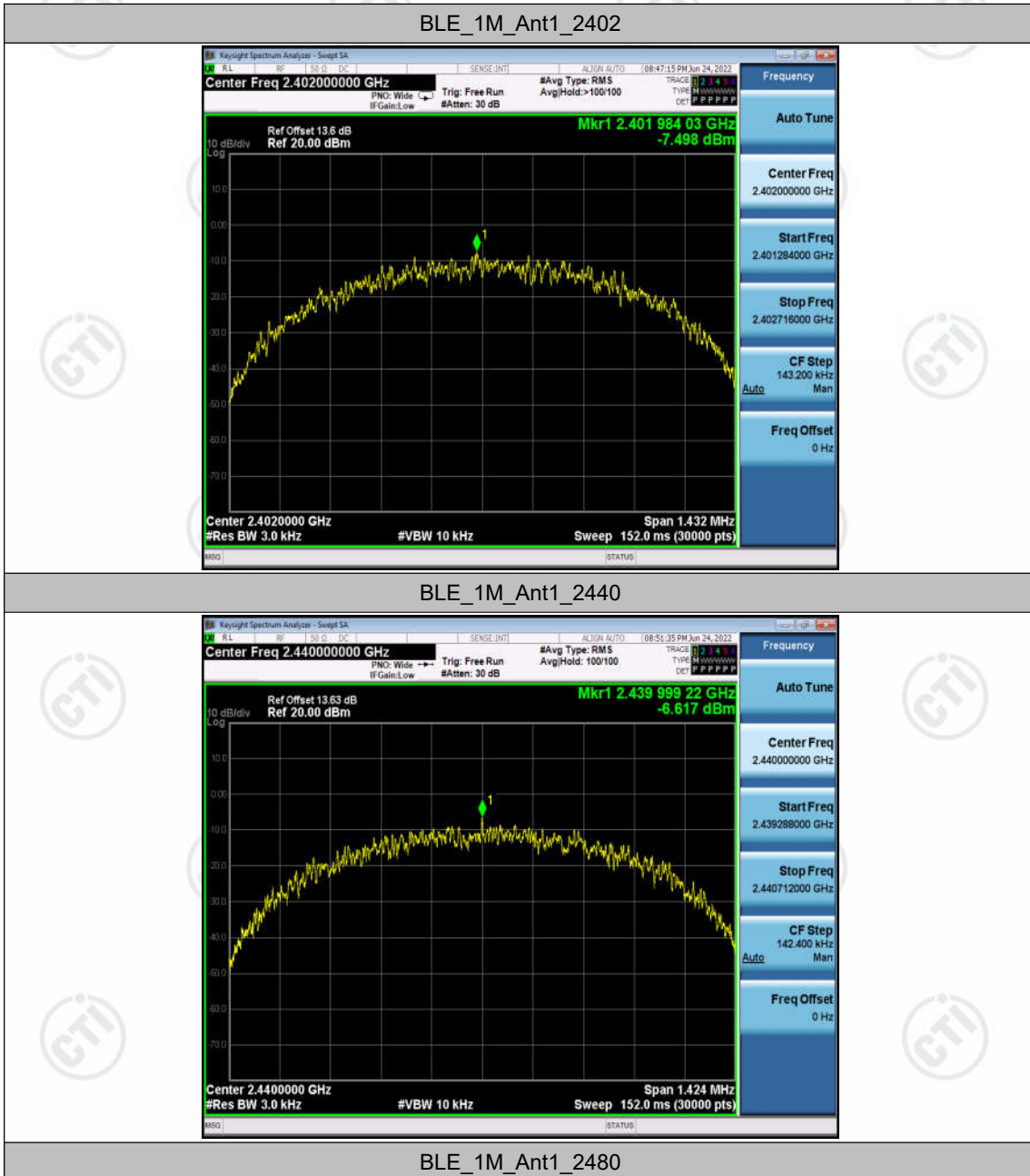
BLE_2M_Ant1_2480



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

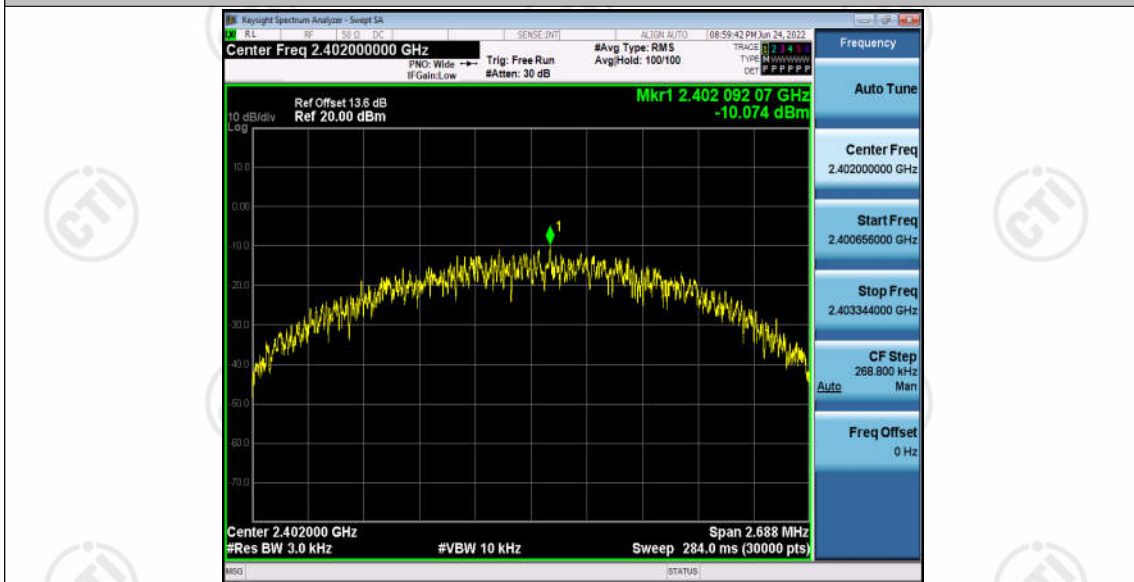
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.5	≤8.00	PASS
		2440	-6.62	≤8.00	PASS
		2480	-6.9	≤8.00	PASS
BLE_2M	Ant1	2402	-10.07	≤8.00	PASS
		2440	-9.74	≤8.00	PASS
		2480	-10.45	≤8.00	PASS

Test Graphs

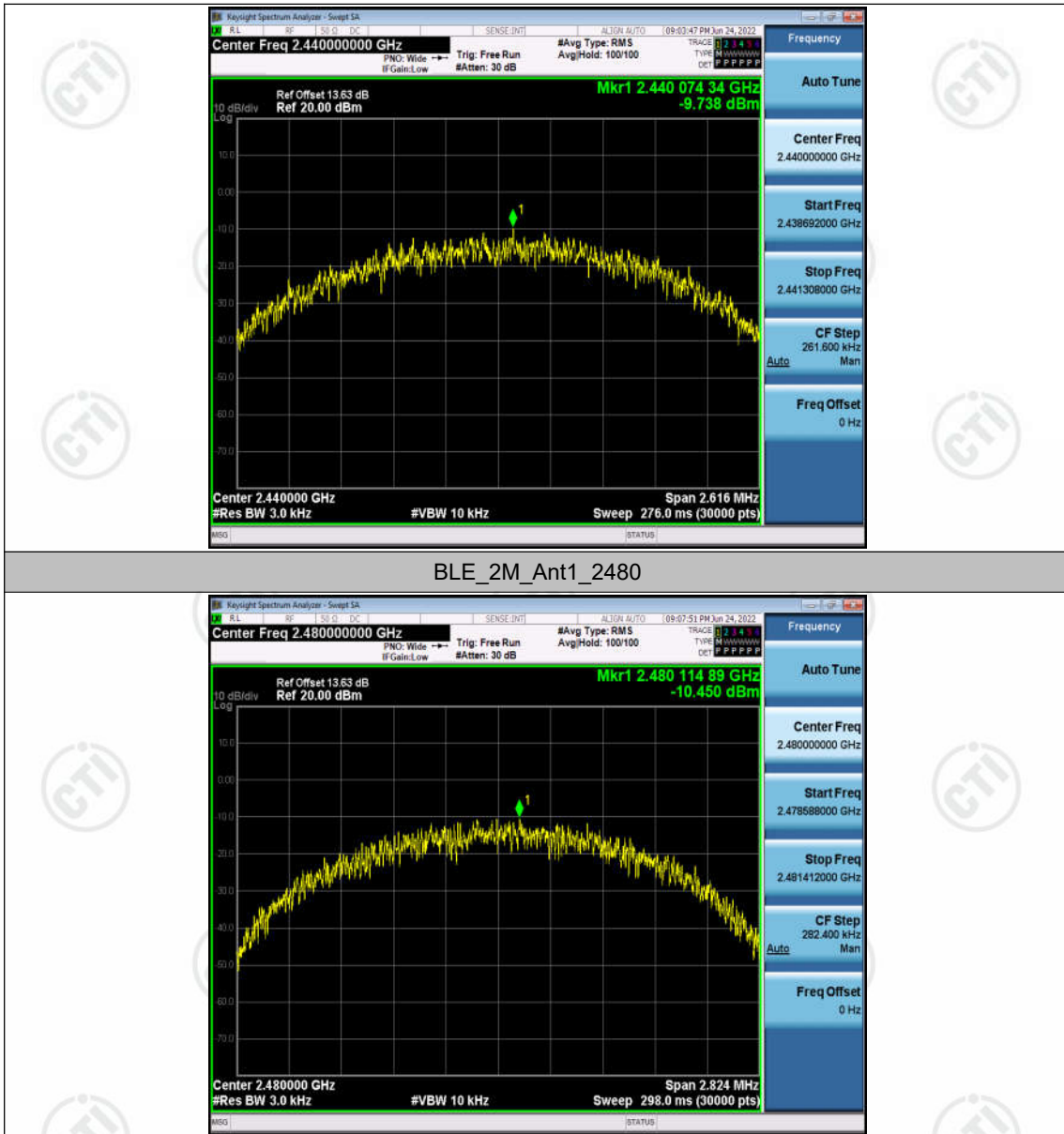




BLE_2M_Ant1_2402



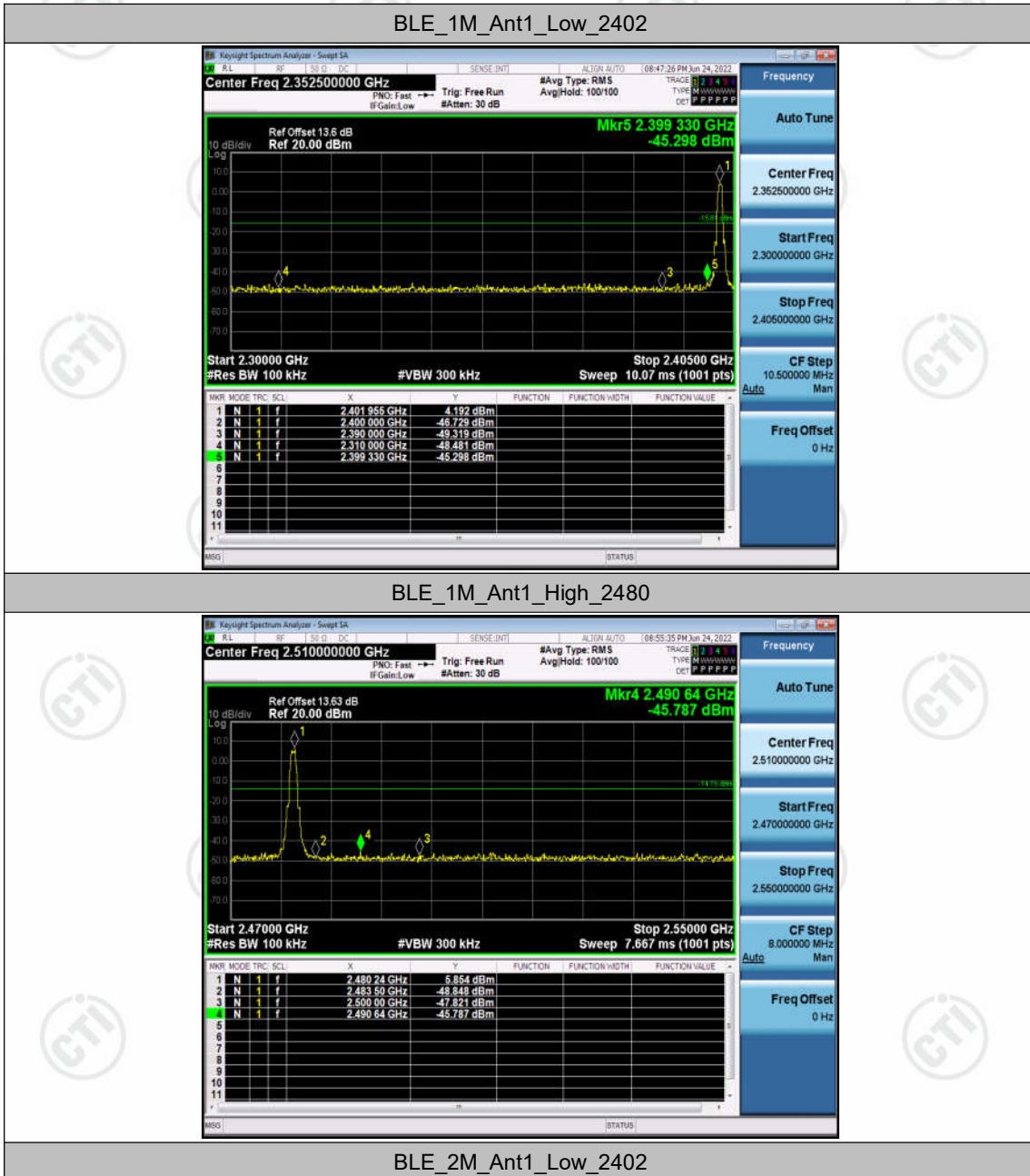
BLE_2M_Ant1_2440

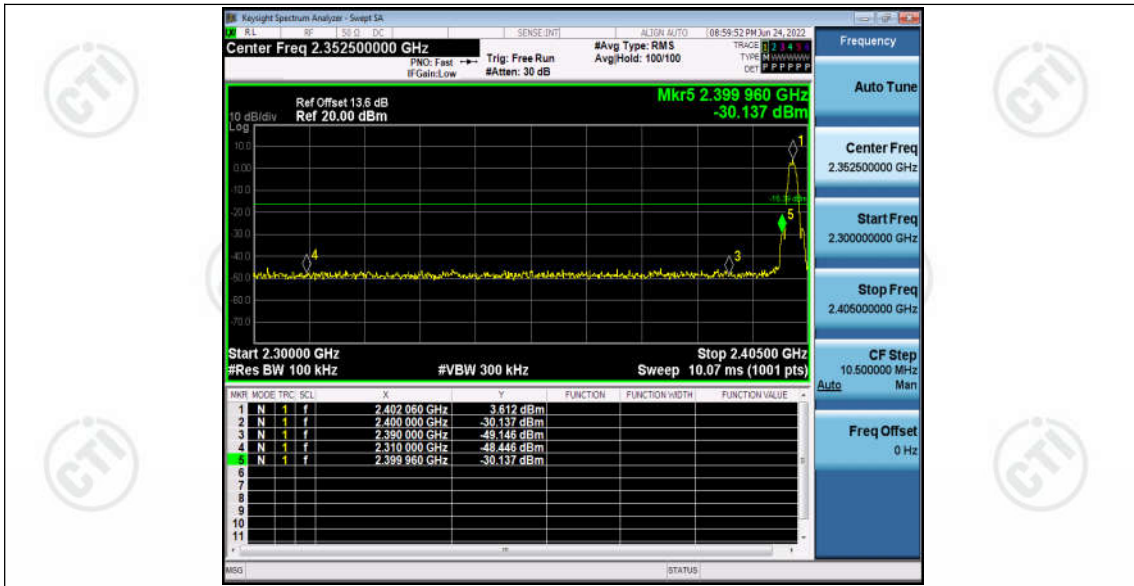


Appendix E: Band edge measurements**Test Result**

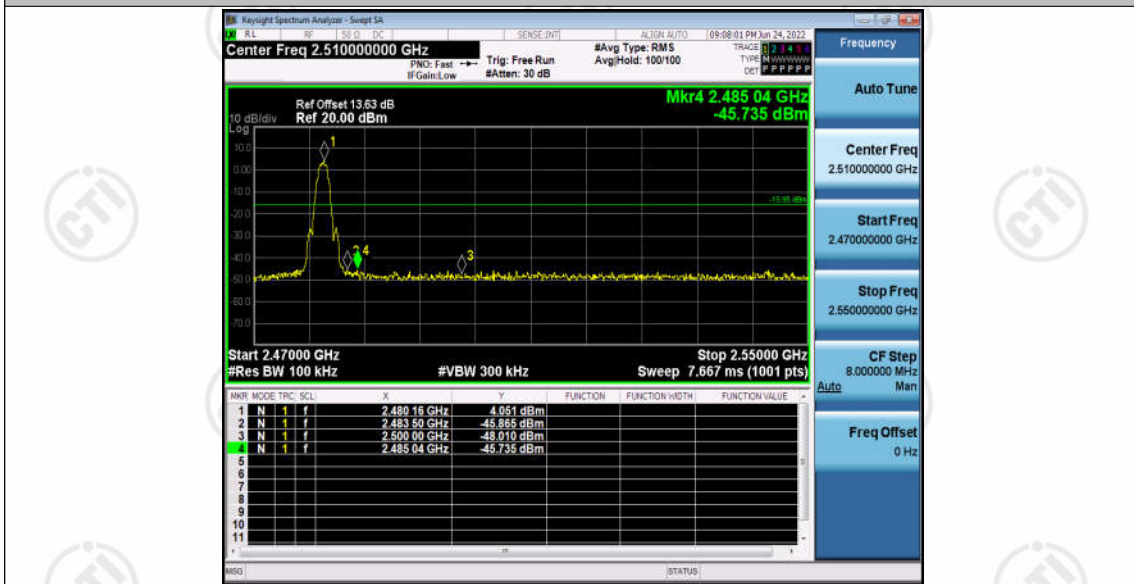
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.19	-45.3	≤-15.81	PASS
		High	2480	5.85	-45.79	≤-14.15	PASS
BLE_2M	Ant1	Low	2402	3.61	-30.14	≤-16.39	PASS
		High	2480	4.05	-45.74	≤-15.95	PASS

Test Graphs





BLE_2M_Ant1_High_2480

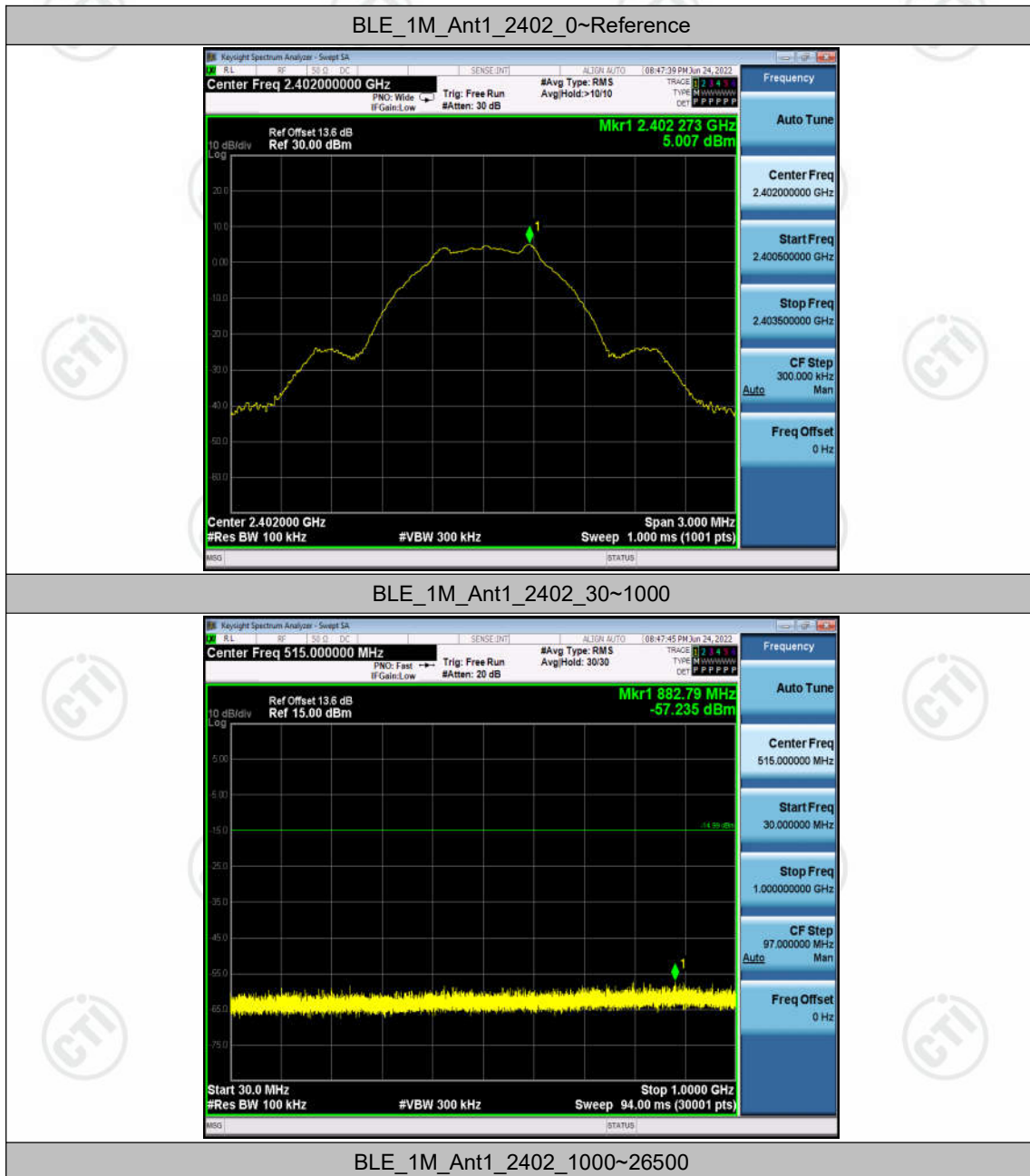


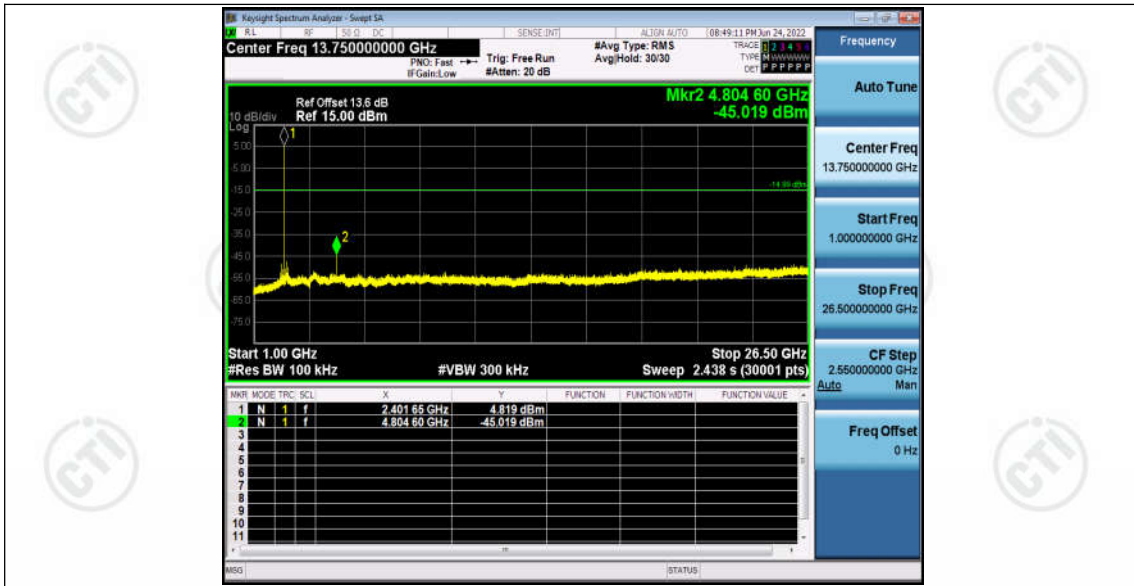
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.01	5.01	---	PASS
			30~1000	---	-57.24	≤-14.99	PASS
			1000~26500	---	-45.02	≤-14.99	PASS
		2440	Reference	5.26	5.26	---	PASS
			30~1000	---	-56.46	≤-14.74	PASS
			1000~26500	---	-42.92	≤-14.74	PASS
		2480	Reference	5.73	5.73	---	PASS
			30~1000	---	-57.13	≤-14.27	PASS
			1000~26500	---	-44.53	≤-14.27	PASS
BLE_2M	Ant1	2402	Reference	3.20	3.20	---	PASS
			30~1000	---	-56.66	≤-16.8	PASS
			1000~26500	---	-46.05	≤-16.8	PASS
		2440	Reference	3.74	3.74	---	PASS
			30~1000	---	-57.37	≤-16.26	PASS
			1000~26500	---	-43.97	≤-16.26	PASS
		2480	Reference	3.84	3.84	---	PASS
			30~1000	---	-57.45	≤-16.16	PASS
			1000~26500	---	-45.16	≤-16.16	PASS

Test Graphs

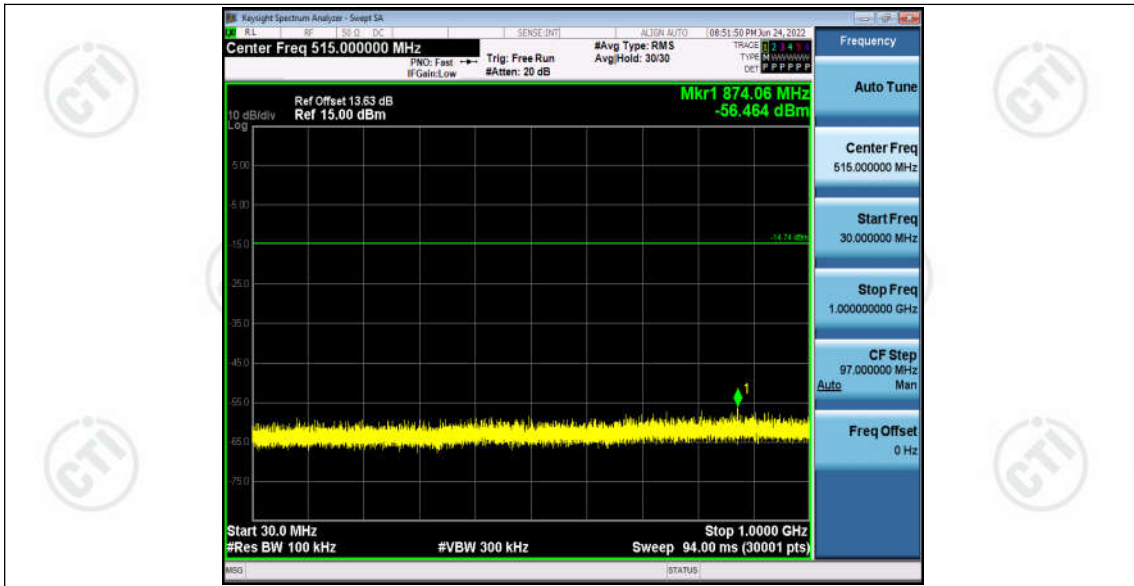




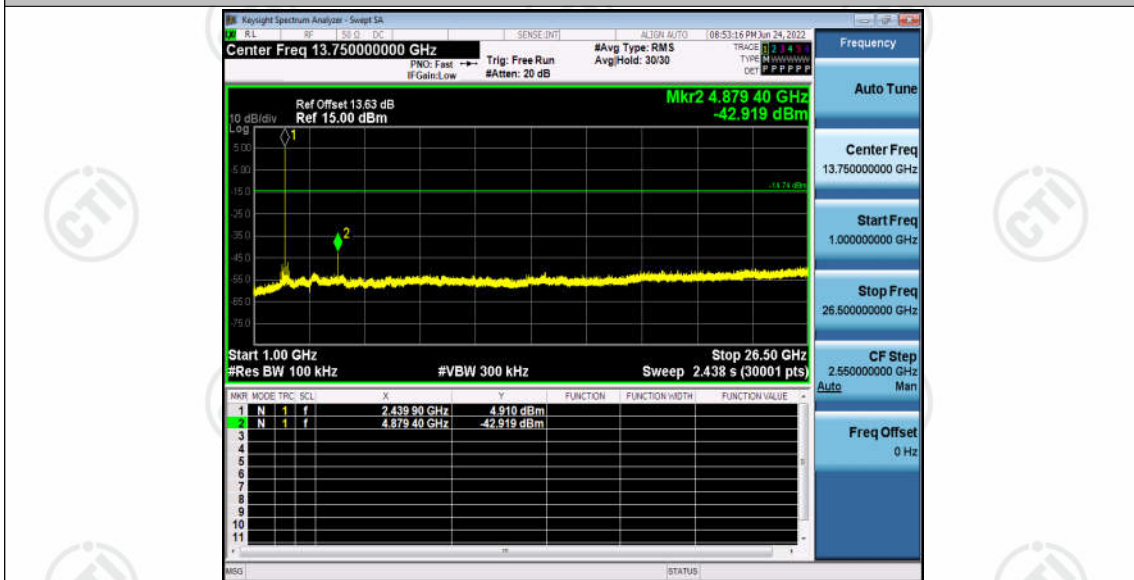
BLE_1M_Ant1_2440_0~Reference



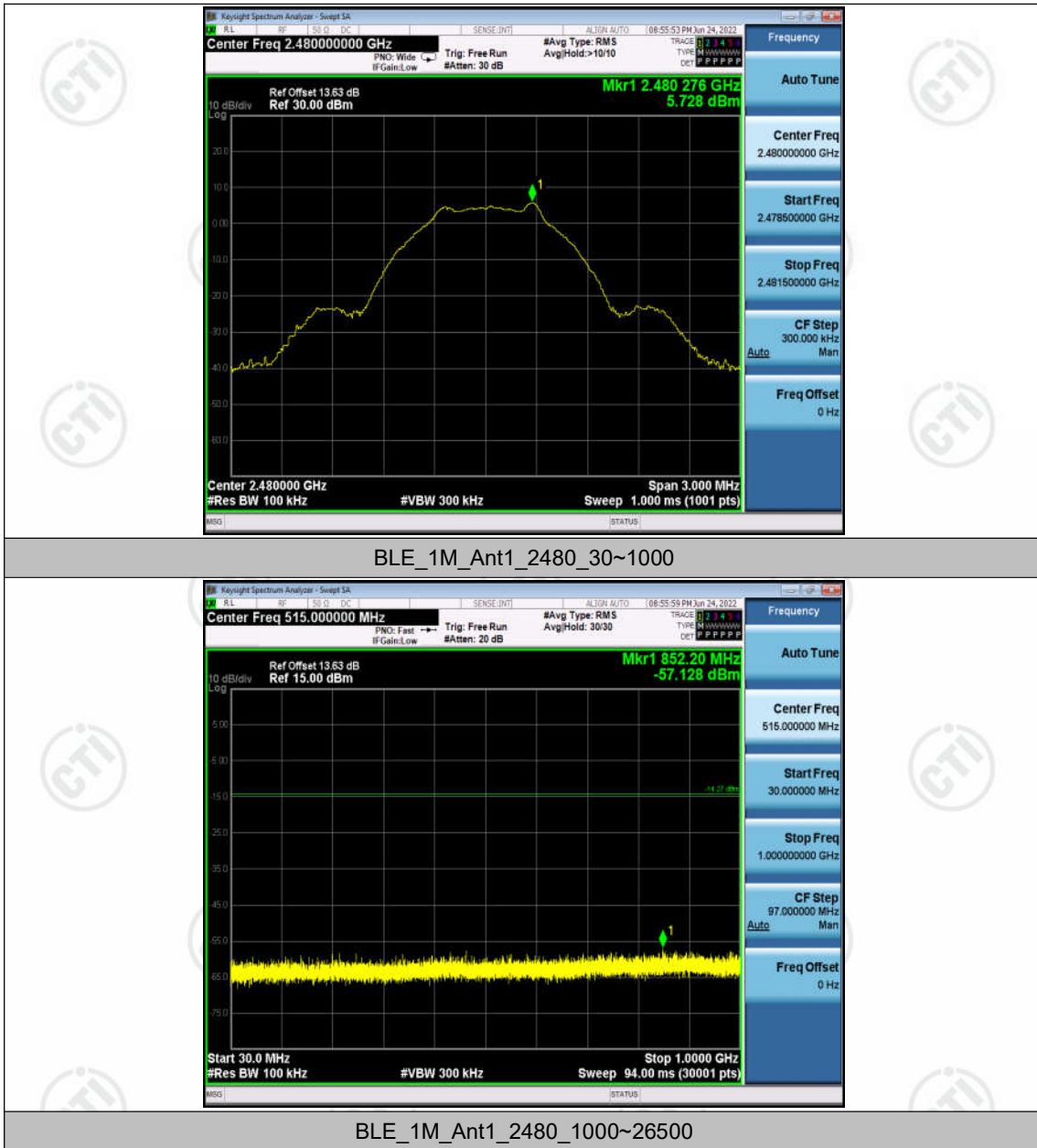
BLE_1M_Ant1_2440_30~1000

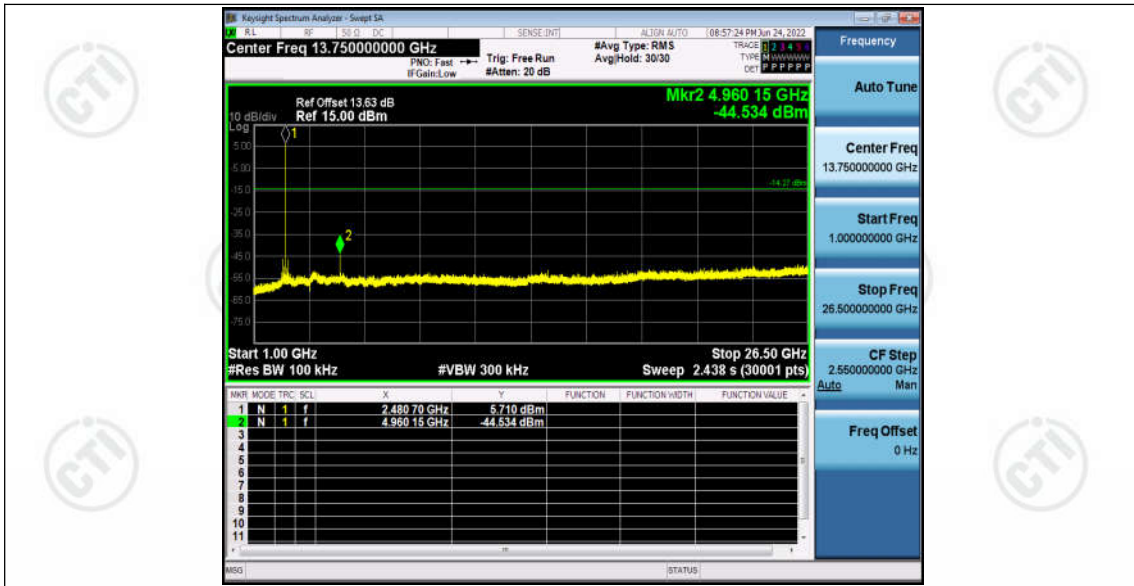


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

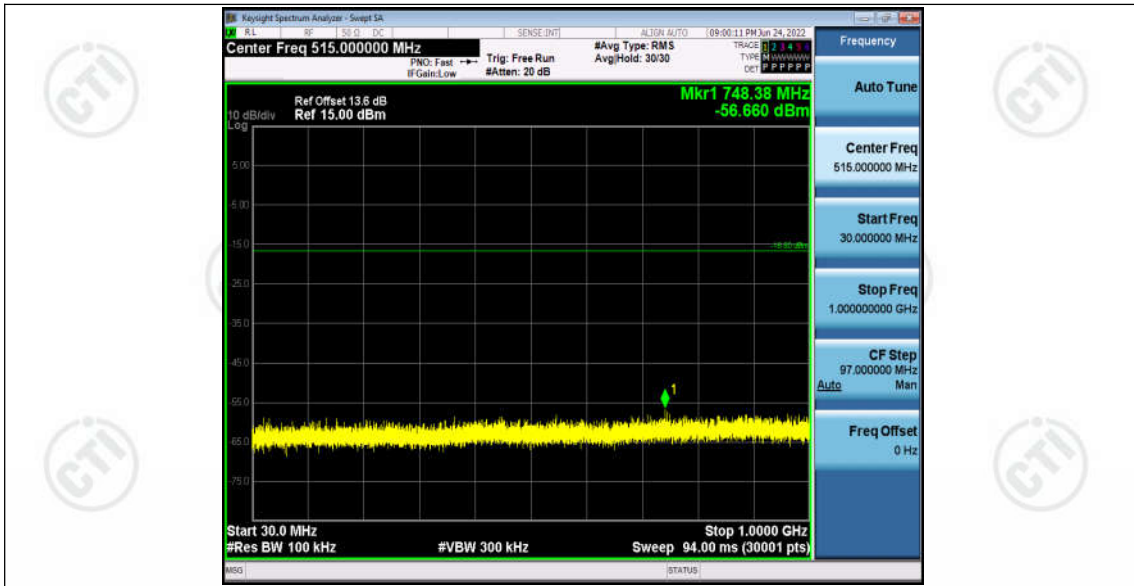




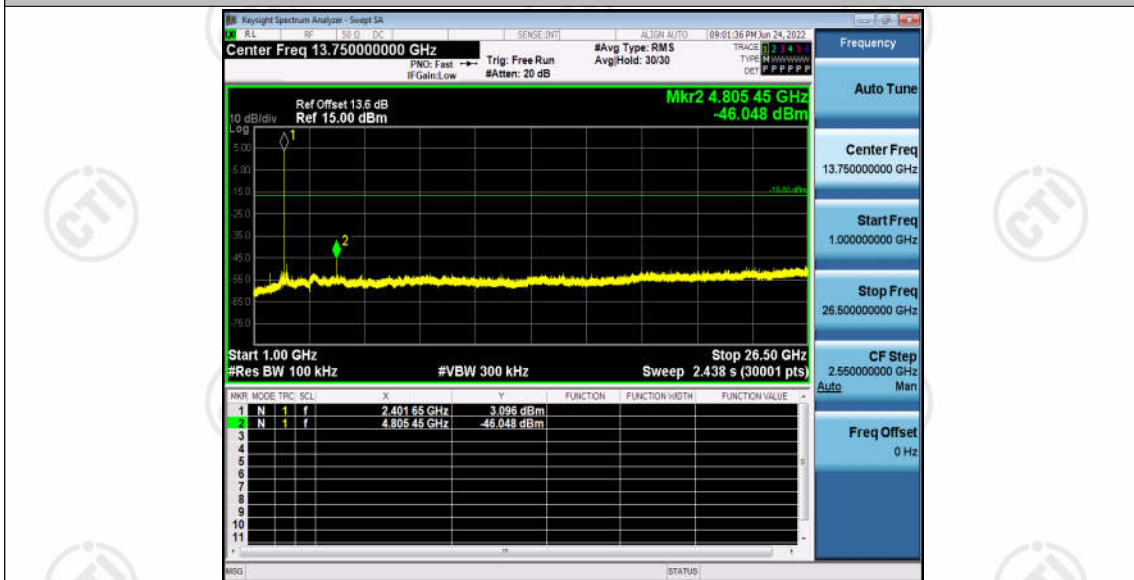
BLE_2M_Ant1_2402_0~Reference



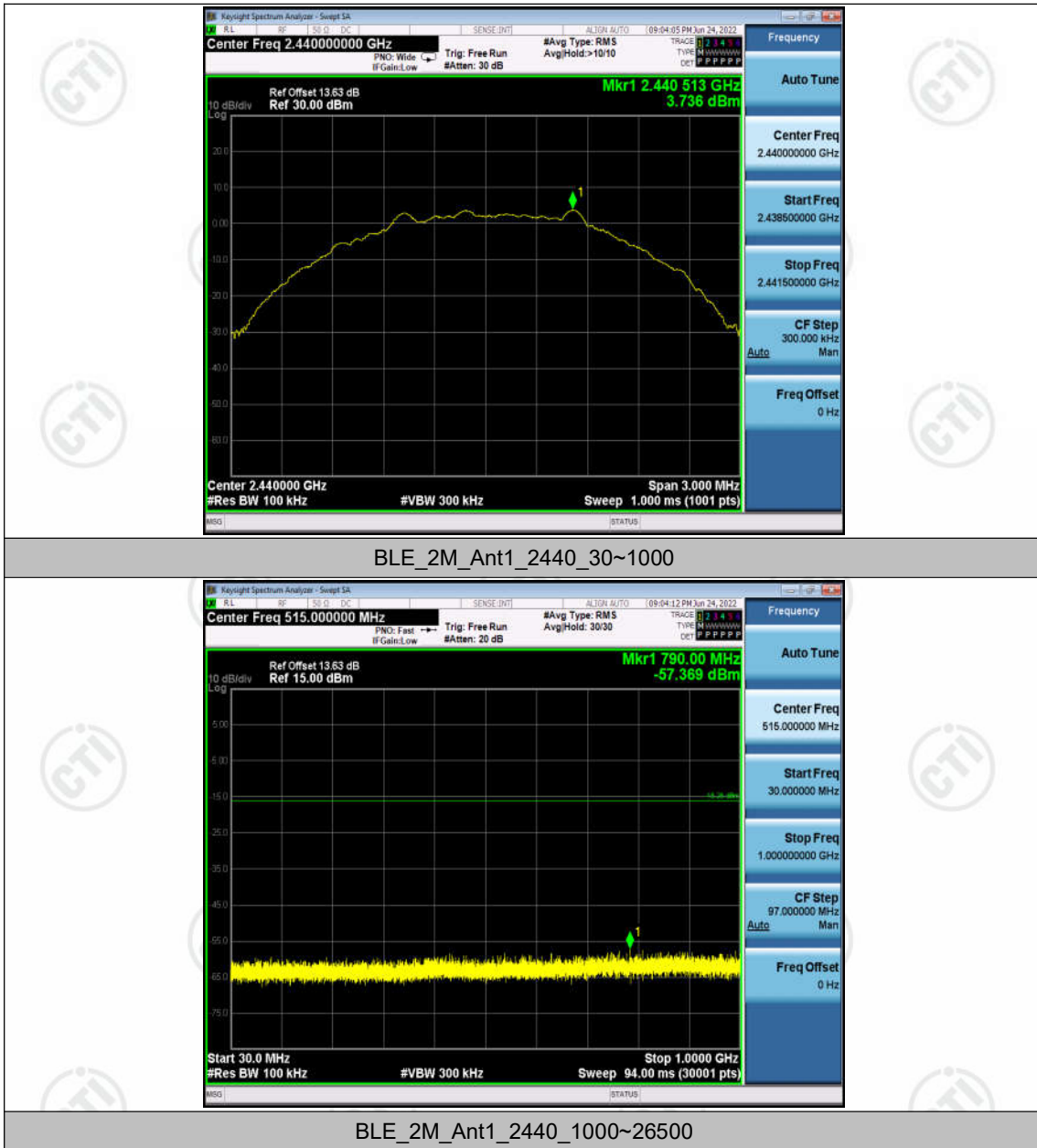
BLE_2M_Ant1_2402_30~1000

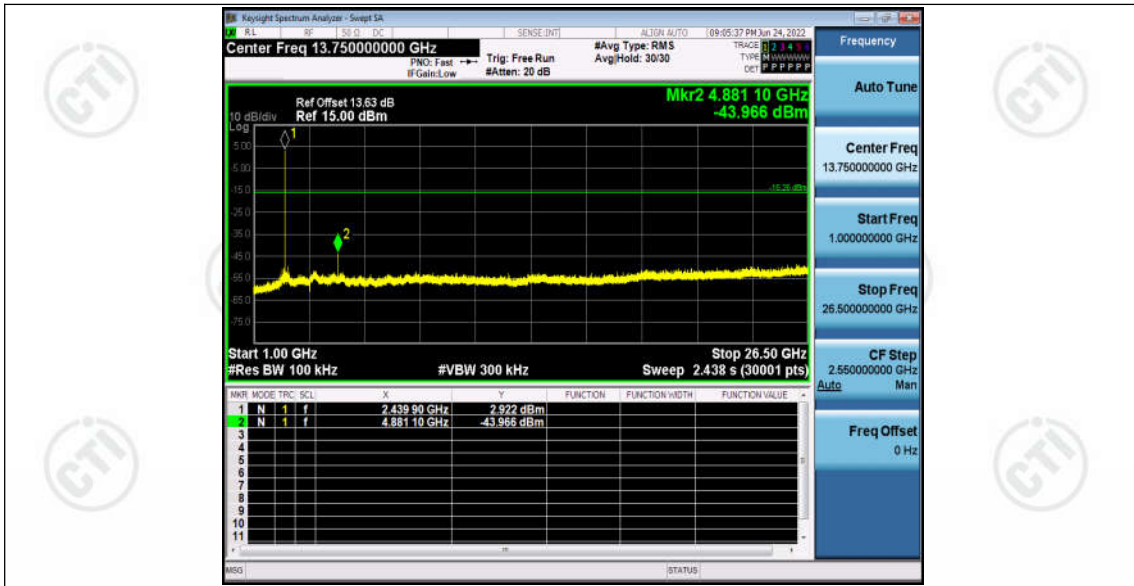


BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

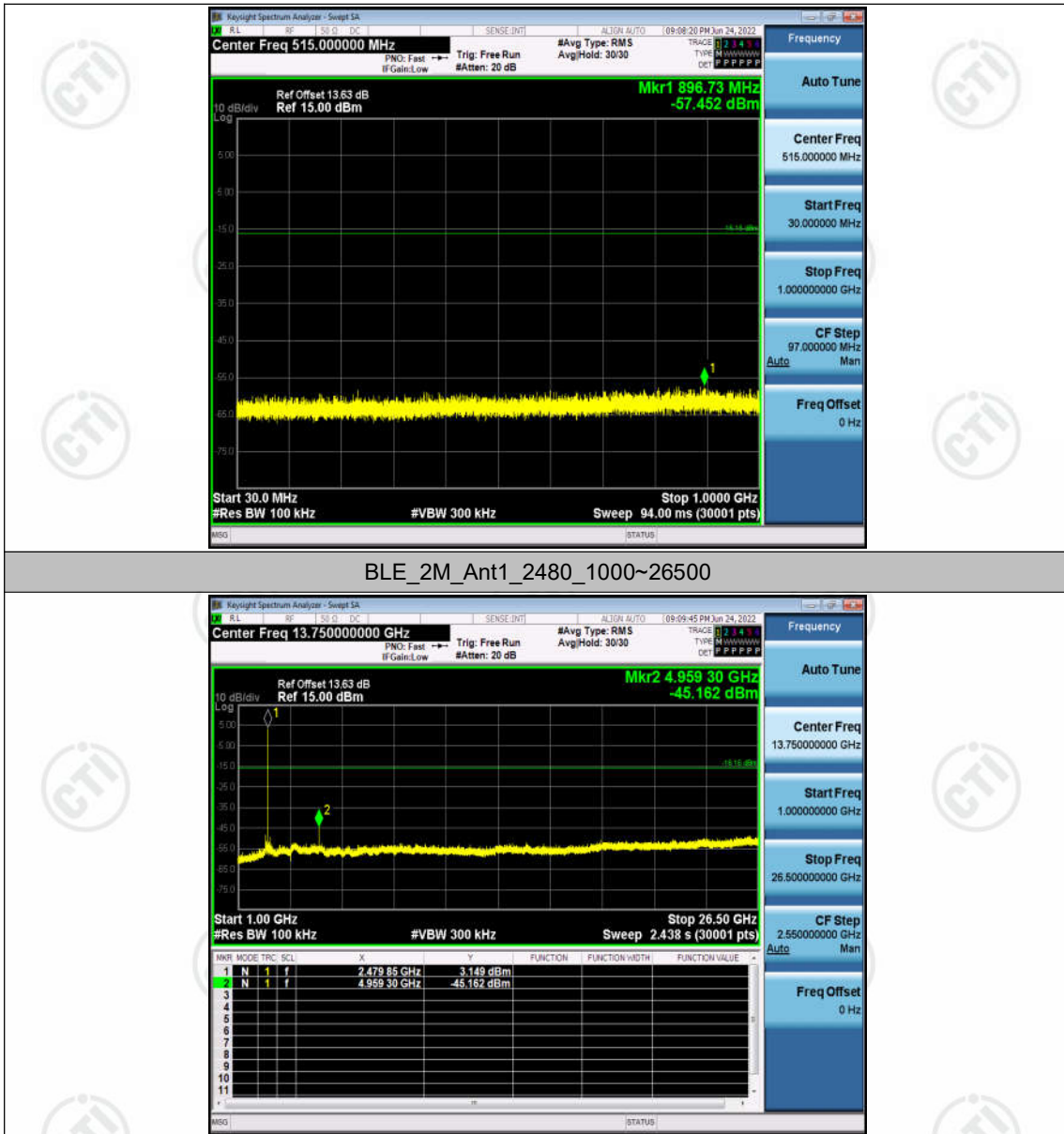




BLE_2M_Ant1_2480_0~Reference



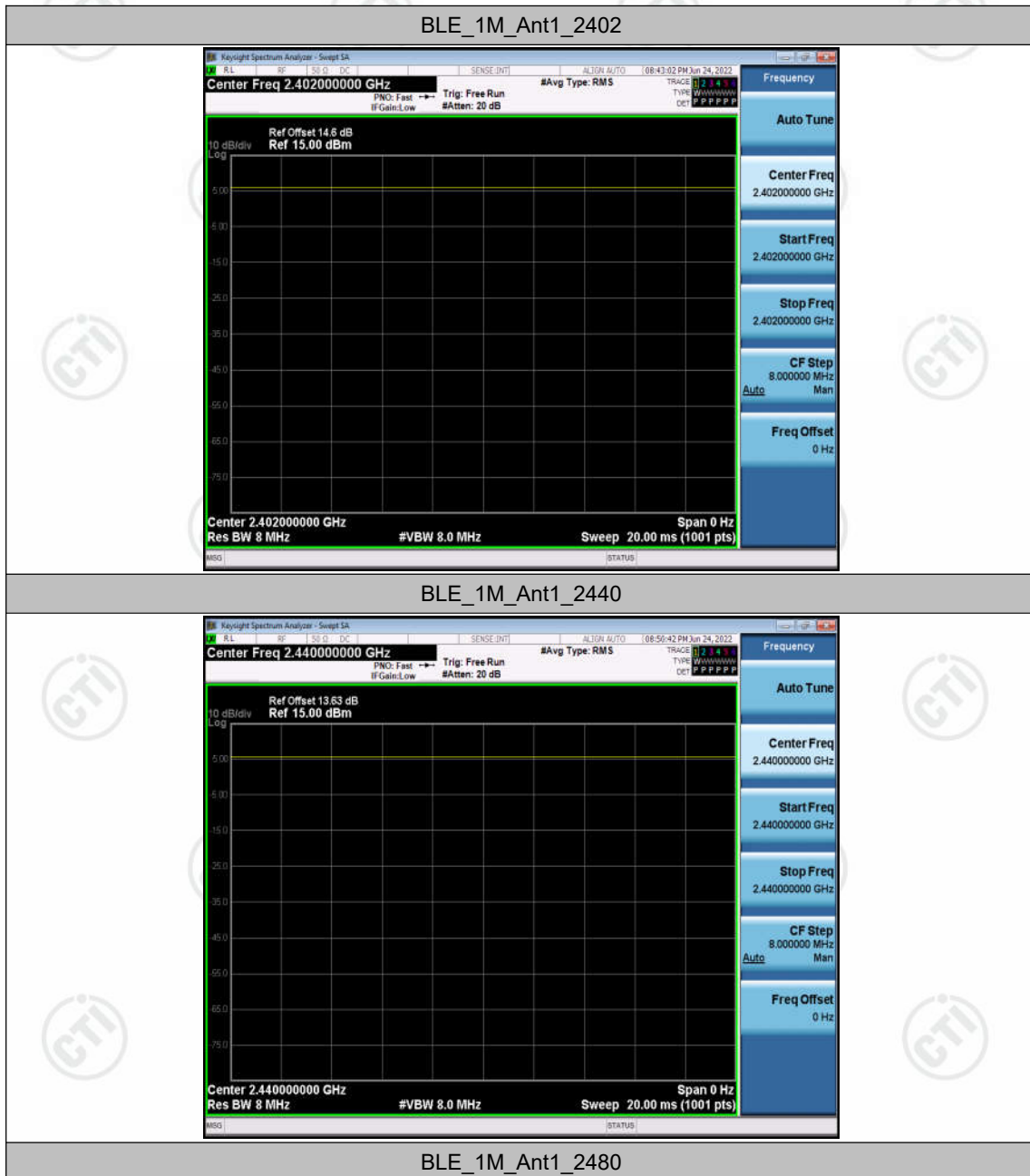
BLE_2M_Ant1_2480_30~1000

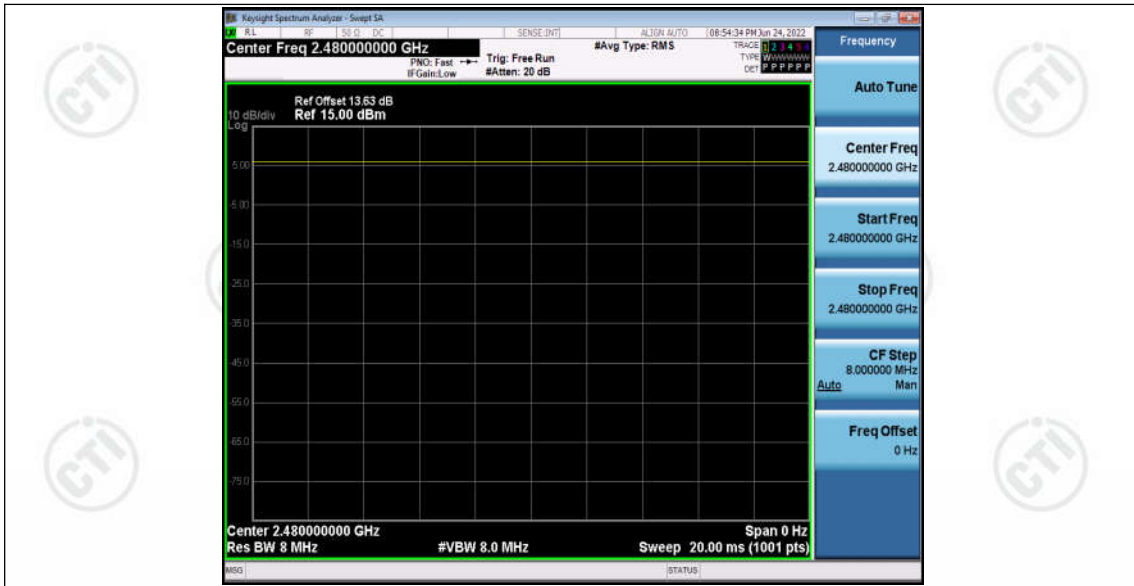


Appendix G: Duty Cycle**Test Result**

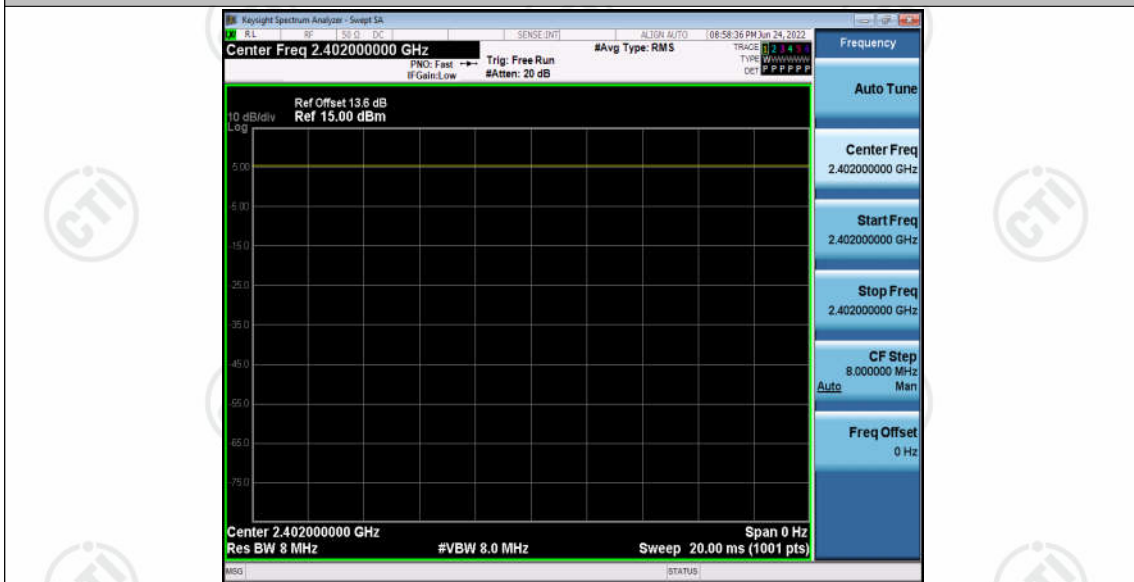
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	0
		2440	0.00	0.00	100	0
		2480	0.00	0.00	100	0
BLE_2M	Ant1	2402	0.00	0.00	100	0
		2440	0.00	0.00	100	0
		2480	0.00	0.00	100	0

Test Graphs

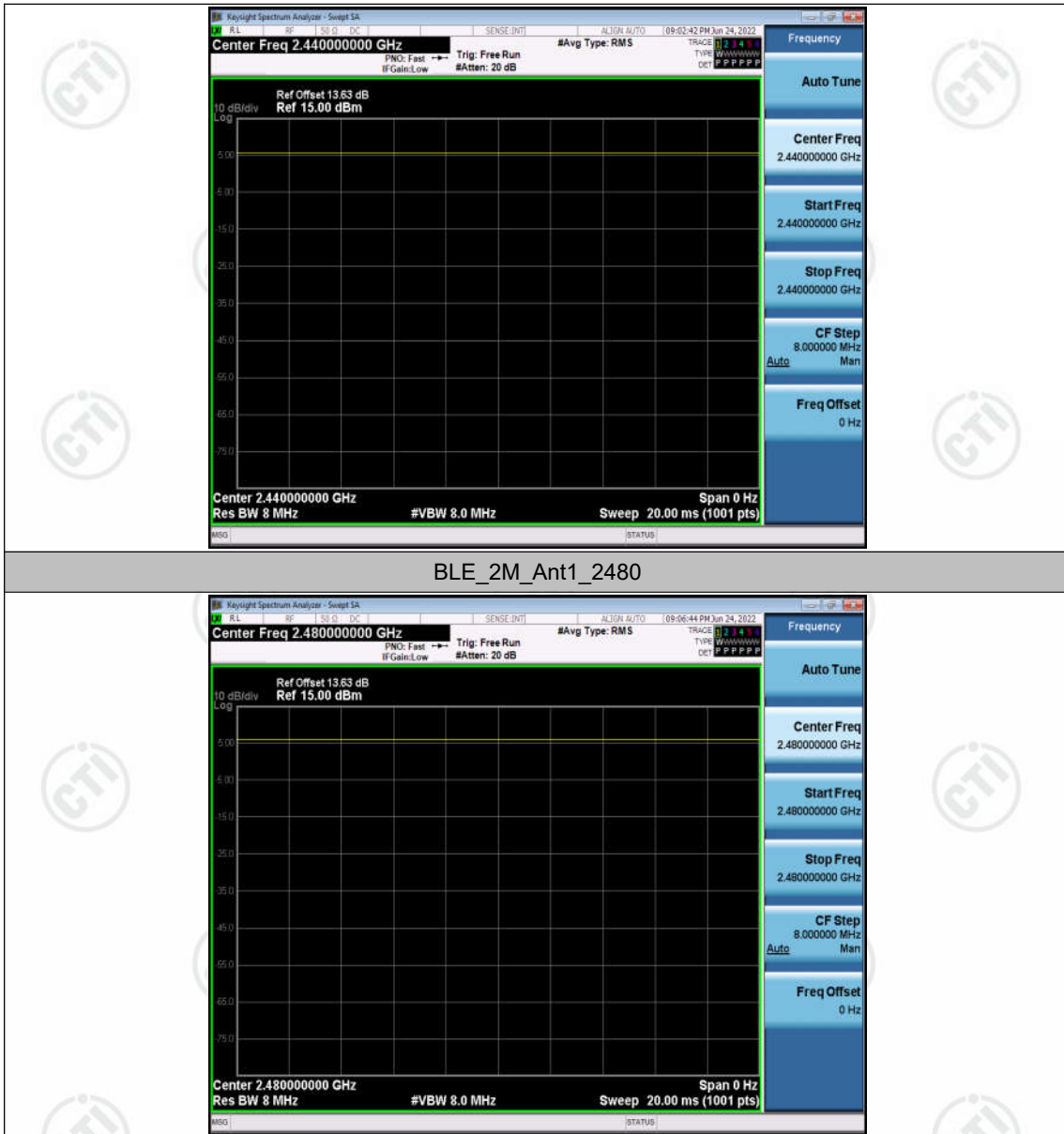




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



*** End of Report ***