

FCC Appendix RF Test Data for BLE

FCC ID : 2BX4Y-P00542

Company : Paradise Marketing Services, Inc.

EUT : AV Wand

Model Number : P00542

Report No. : CTA26081300901

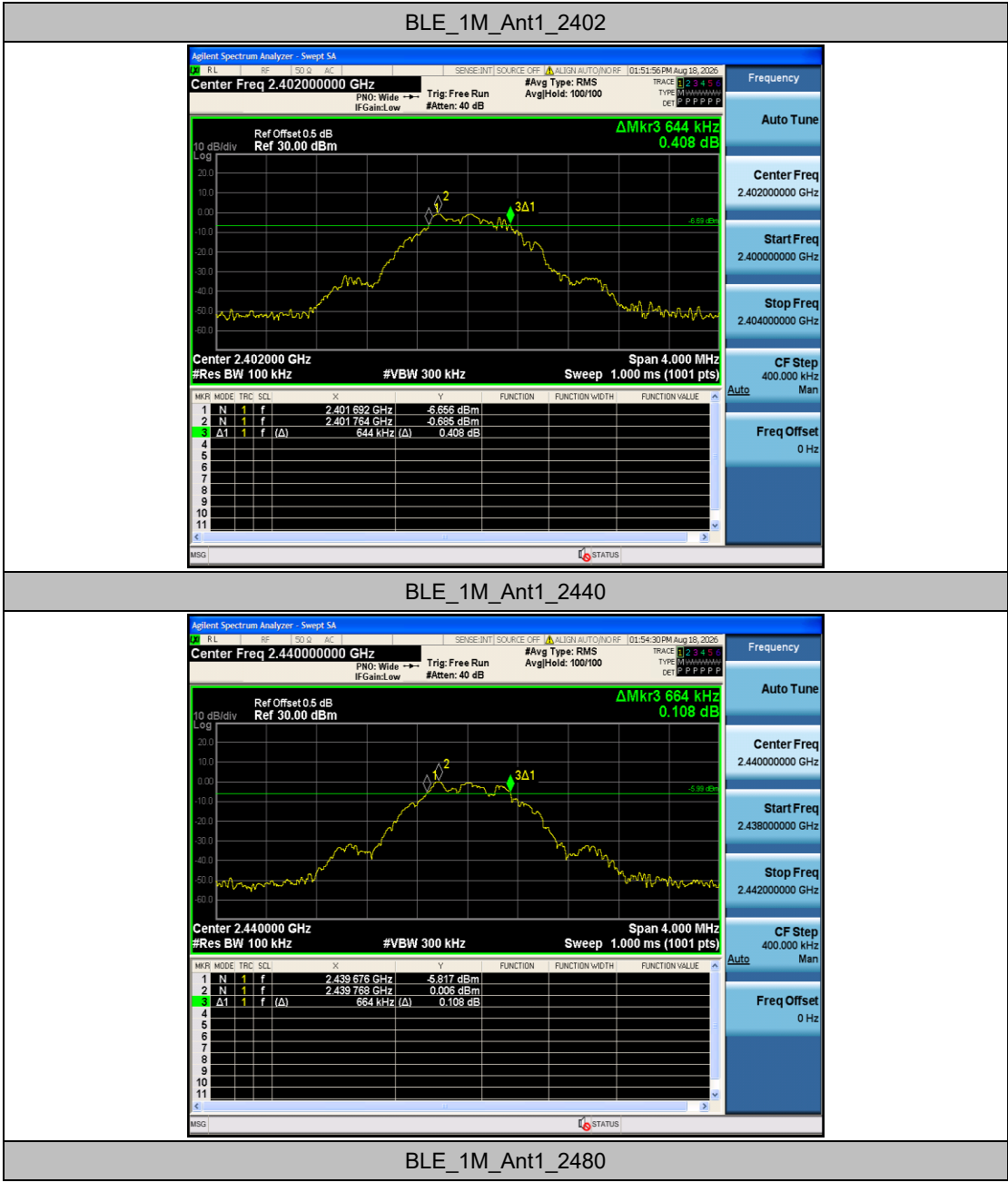
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.692	2402.336	0.5	PASS
		2440	0.664	2439.676	2440.340	0.5	PASS
		2480	0.568	2479.692	2480.260	0.5	PASS

Test Graphs



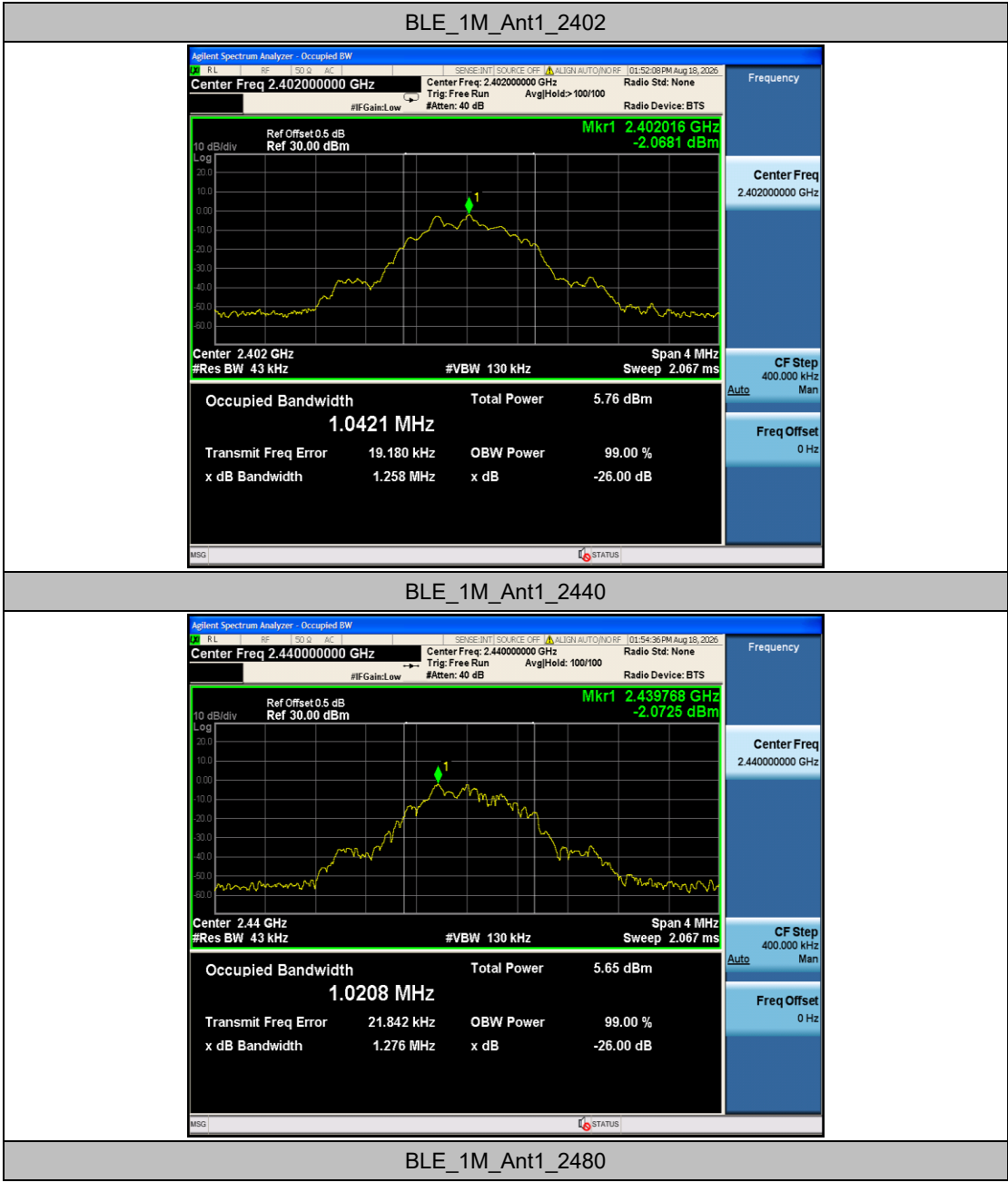


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0418	2401.4985	2402.5403	---	---
		2440	1.0208	2439.5114	2440.5322	---	---
		2480	1.0515	2479.4937	2480.5452	---	---

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	-0.53	≤30	PASS
		2440	0.15	≤30	PASS
		2480	0.65	≤30	PASS

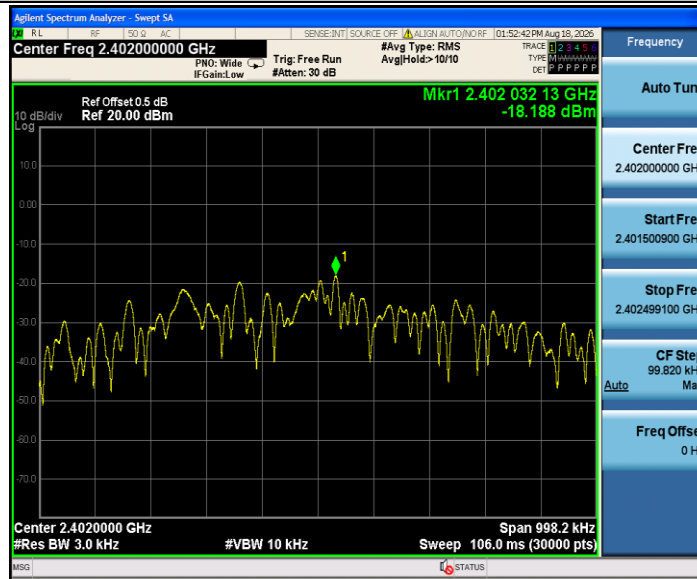
Appendix D: Maximum power spectral density

Test Result

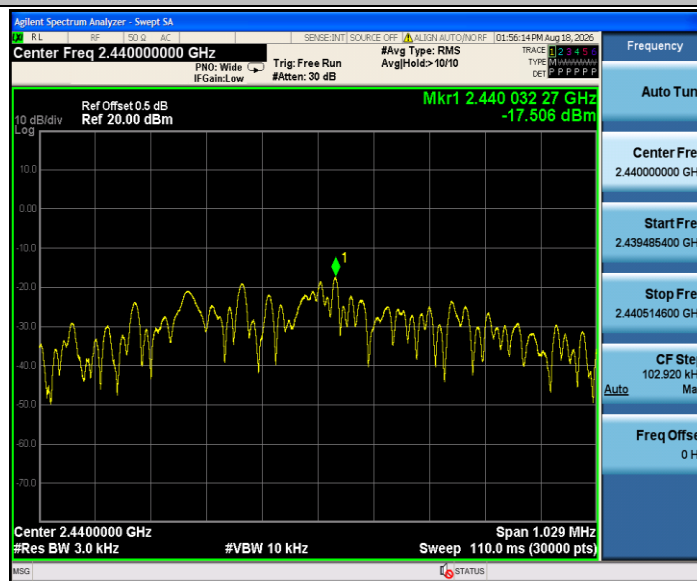
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.19	≤8.00	PASS
		2440	-17.51	≤8.00	PASS
		2480	-17.08	≤8.00	PASS

Test Graphs

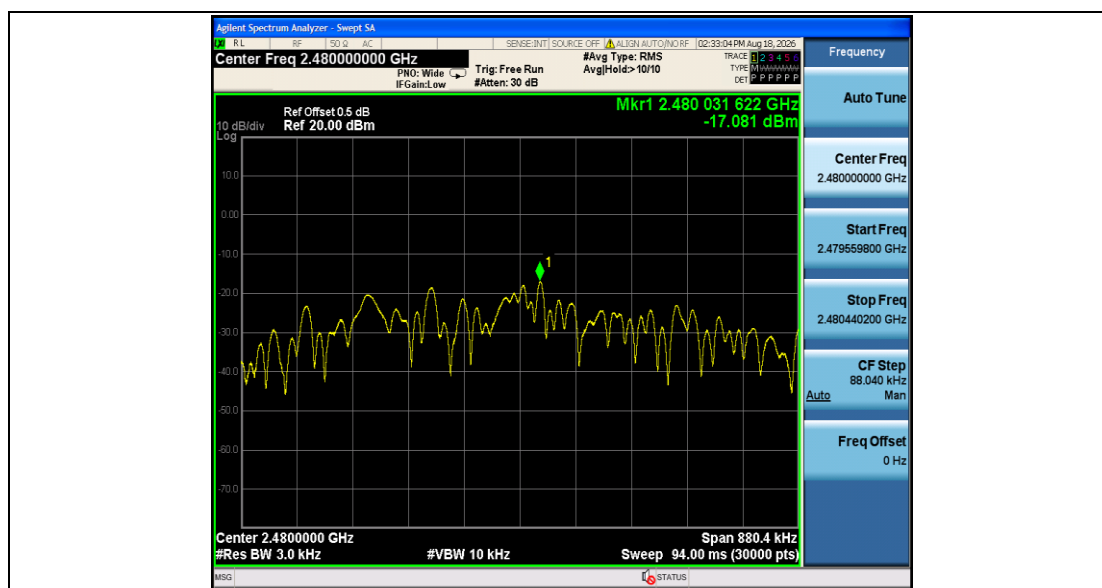
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

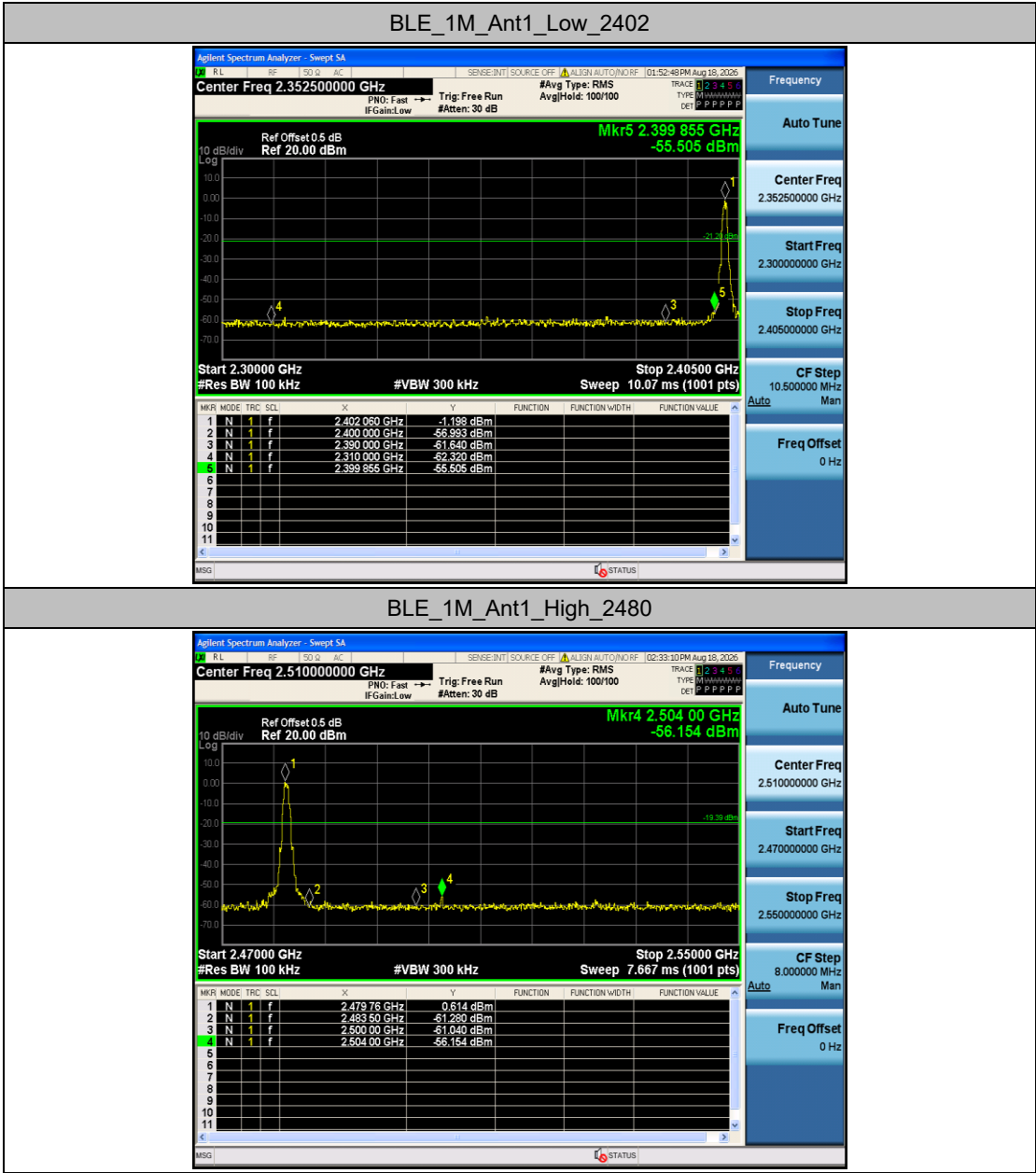


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.20	-55.51	≤-21.2	PASS
		High	2480	0.61	-56.15	≤-19.39	PASS

Test Graphs

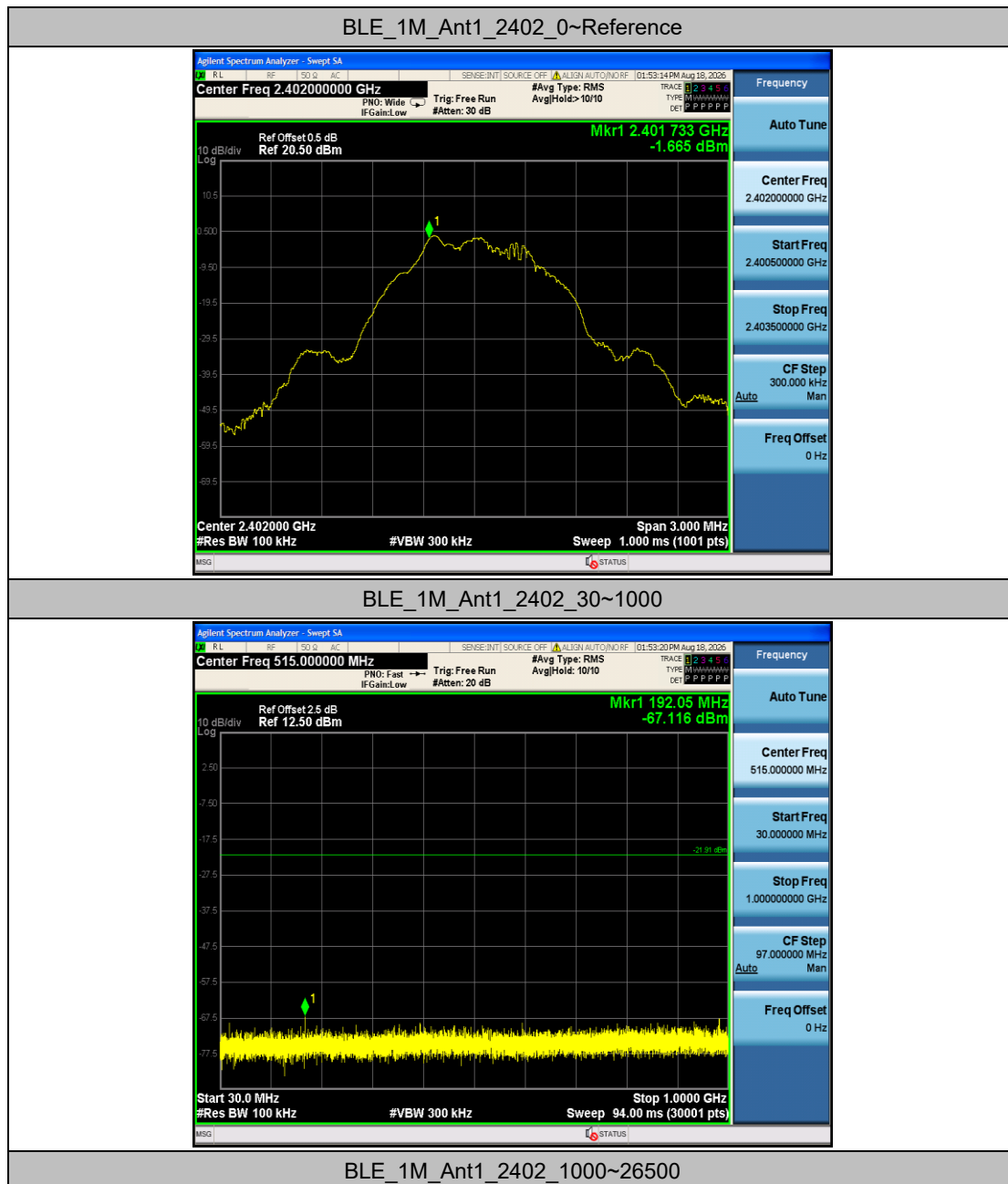


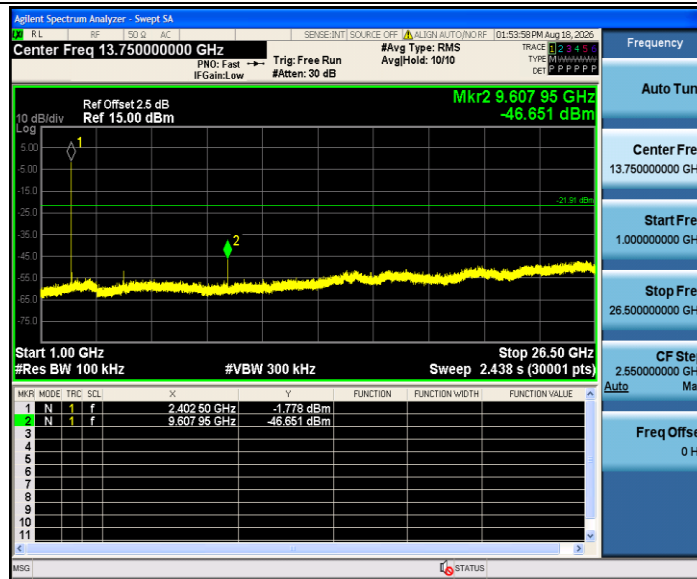
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-67.12	≤-21.91	PASS
			1000~26500	-1.91	-46.65	≤-21.91	PASS
		2440	Reference	-7.61	-7.61	---	PASS
			30~1000	-7.61	-65.04	≤-27.61	PASS
			1000~26500	-7.61	-45.99	≤-27.61	PASS
		2480	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-63.05	≤-21.34	PASS
			1000~26500	-1.34	-44.81	≤-21.34	PASS

Test Graphs

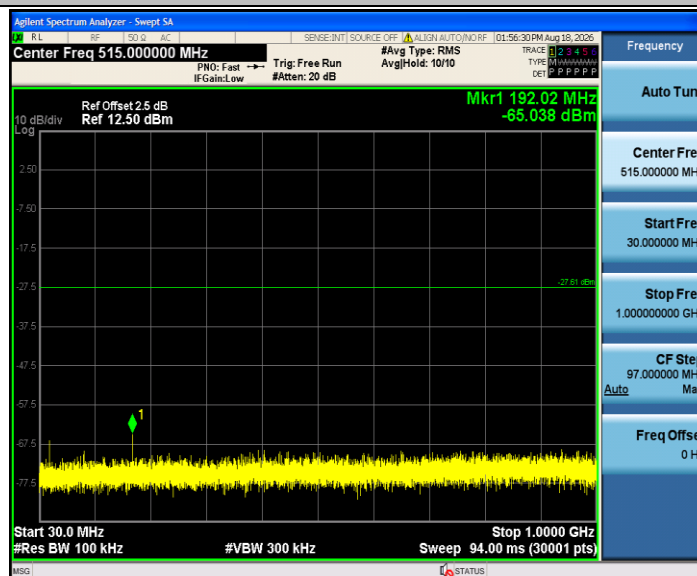




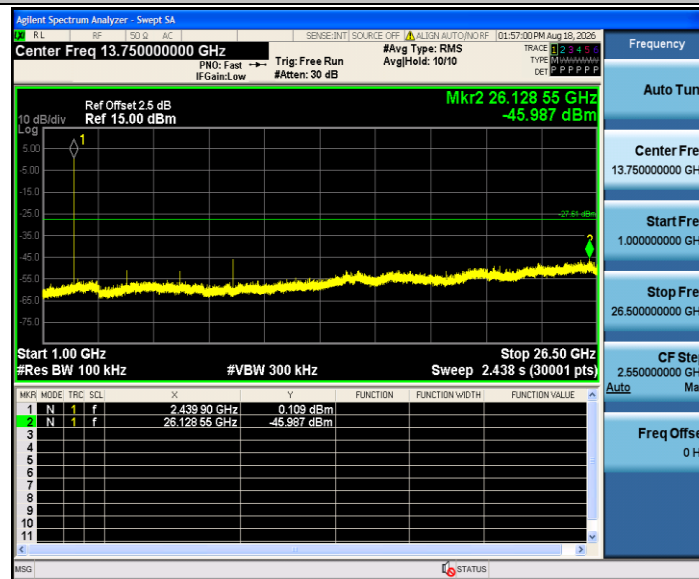
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



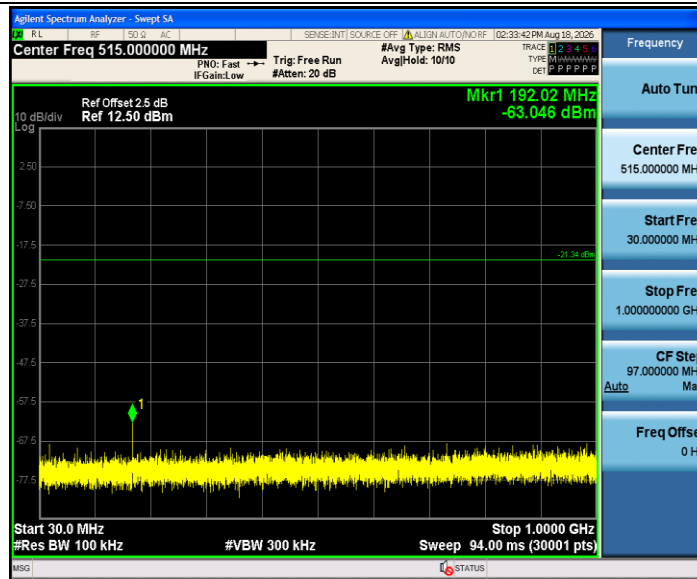
BLE_1M_Ant1_2440_1000~26500



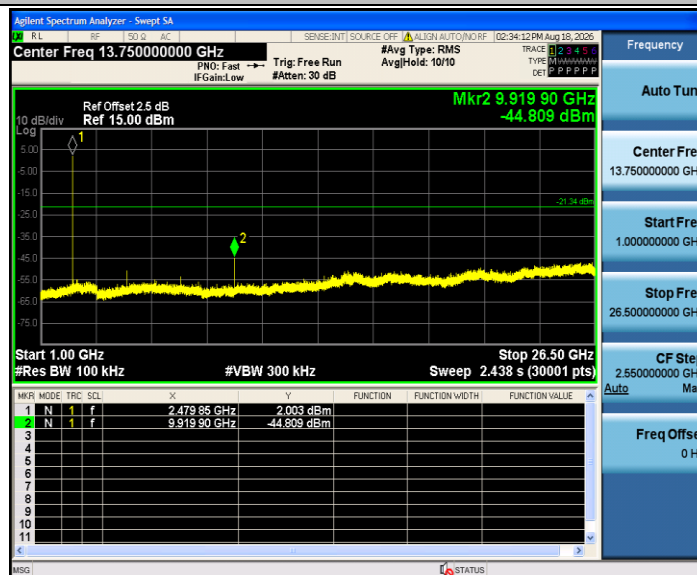
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

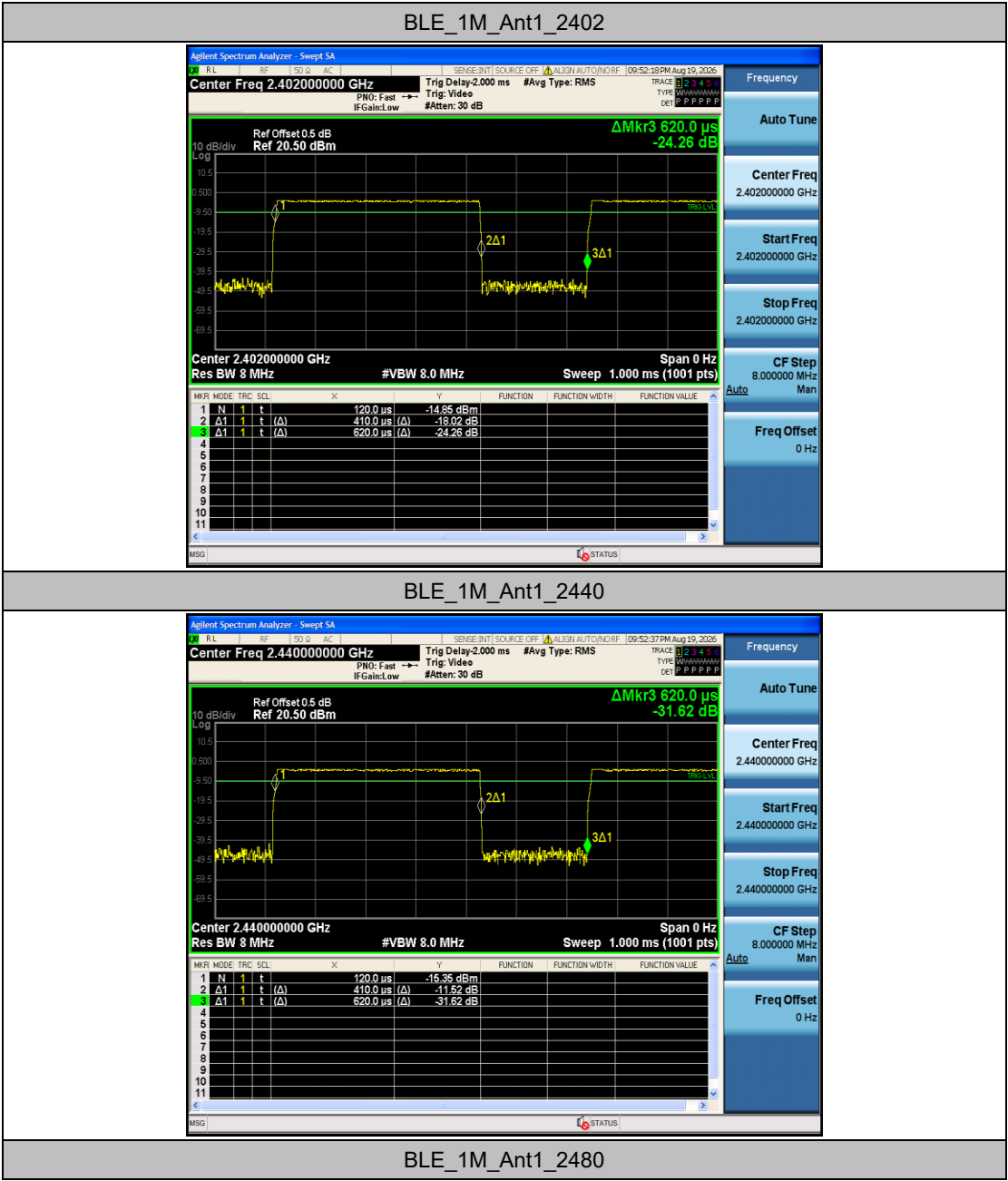


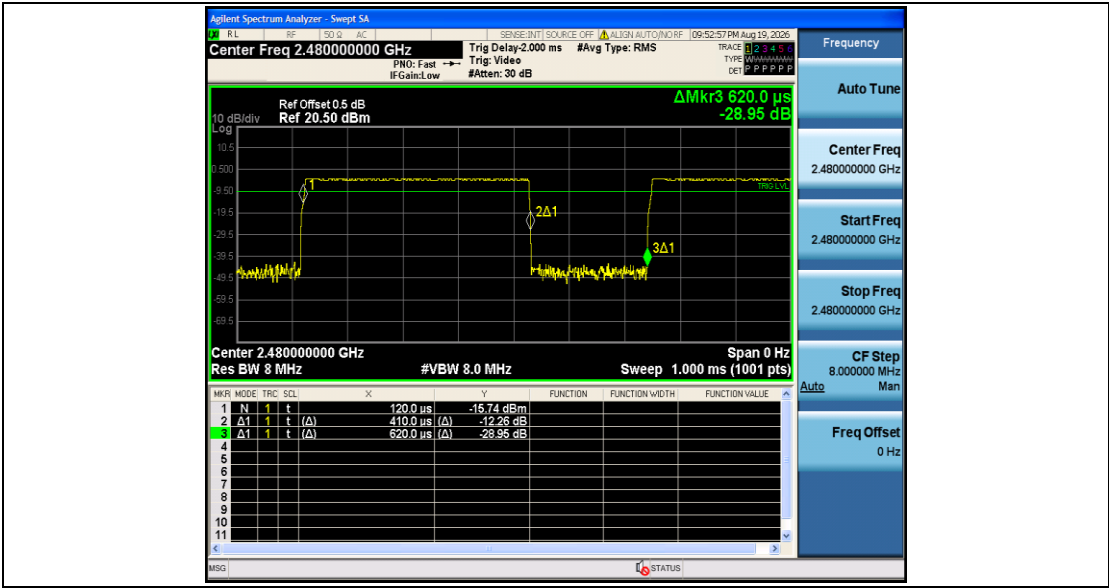
Appendix G: Duty Cycle

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	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

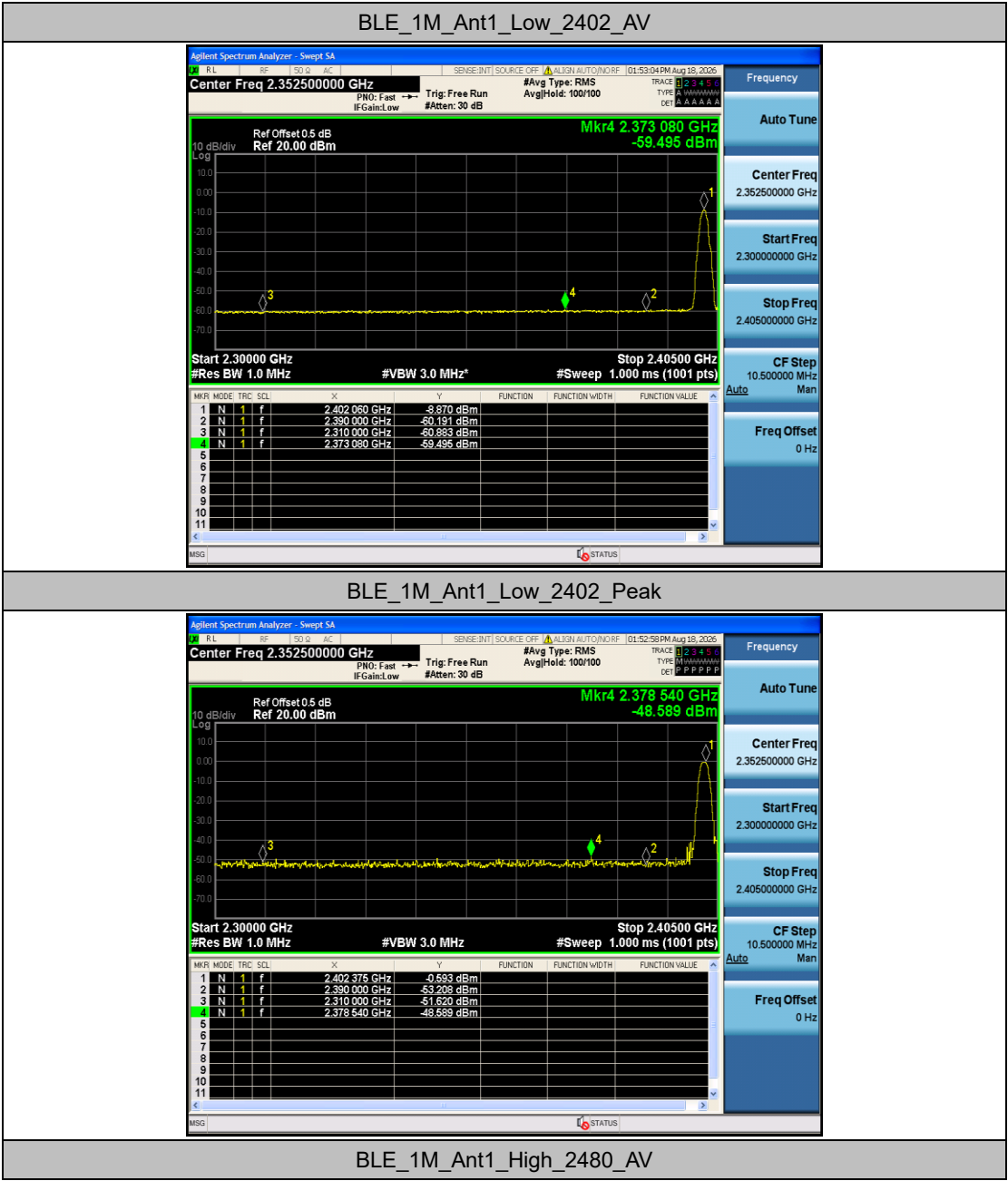
Test Result

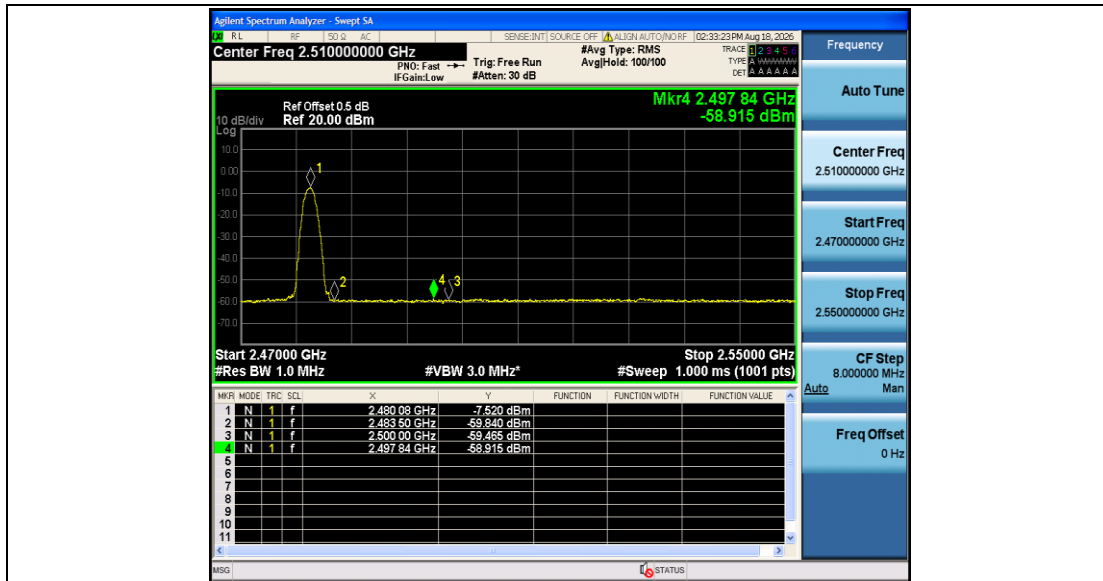
TestMode	Antenna	Channel Name	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.88	2.00	1.80	38.12	≤54	PASS
				AV	2373.080	-59.5	2.00	1.80	39.5	≤54	PASS
				AV	2390.000	-60.19	2.00	1.80	38.81	≤54	PASS
				Peak	2310.000	-51.62	2.00	0.00	45.58	≤74	PASS
				Peak	2378.540	-48.59	2.00	0.00	48.61	≤74	PASS
				Peak	2390.000	-53.21	2.00	0.00	43.99	≤74	PASS
		High	2480	AV	2483.500	-59.84	2.00	1.80	39.16	≤54	PASS
				AV	2497.840	-58.91	2.00	1.80	40.09	≤54	PASS
				AV	2500.000	-59.47	2.00	1.80	39.53	≤54	PASS
				Peak	2483.500	-49.1	2.00	0.00	48.1	≤74	PASS
				Peak	2483.600	-42.26	2.00	0.00	54.94	≤74	PASS
				Peak	2500.000	-51.27	2.00	0.00	45.93	≤74	PASS

Note:

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_High_2480_Peak

