

FCC Appendix RF Test Data for BLE

FCC ID : 2BAS6-INFINITYBED

Company : Shenzhen BIQU Innovation Technology Co., Ltd.

EUT : BIQU X FOXLT Infinity Bed

Model Number : BIQU X FOXLT Infinity Bed P1

Report No. : CTA26082801401

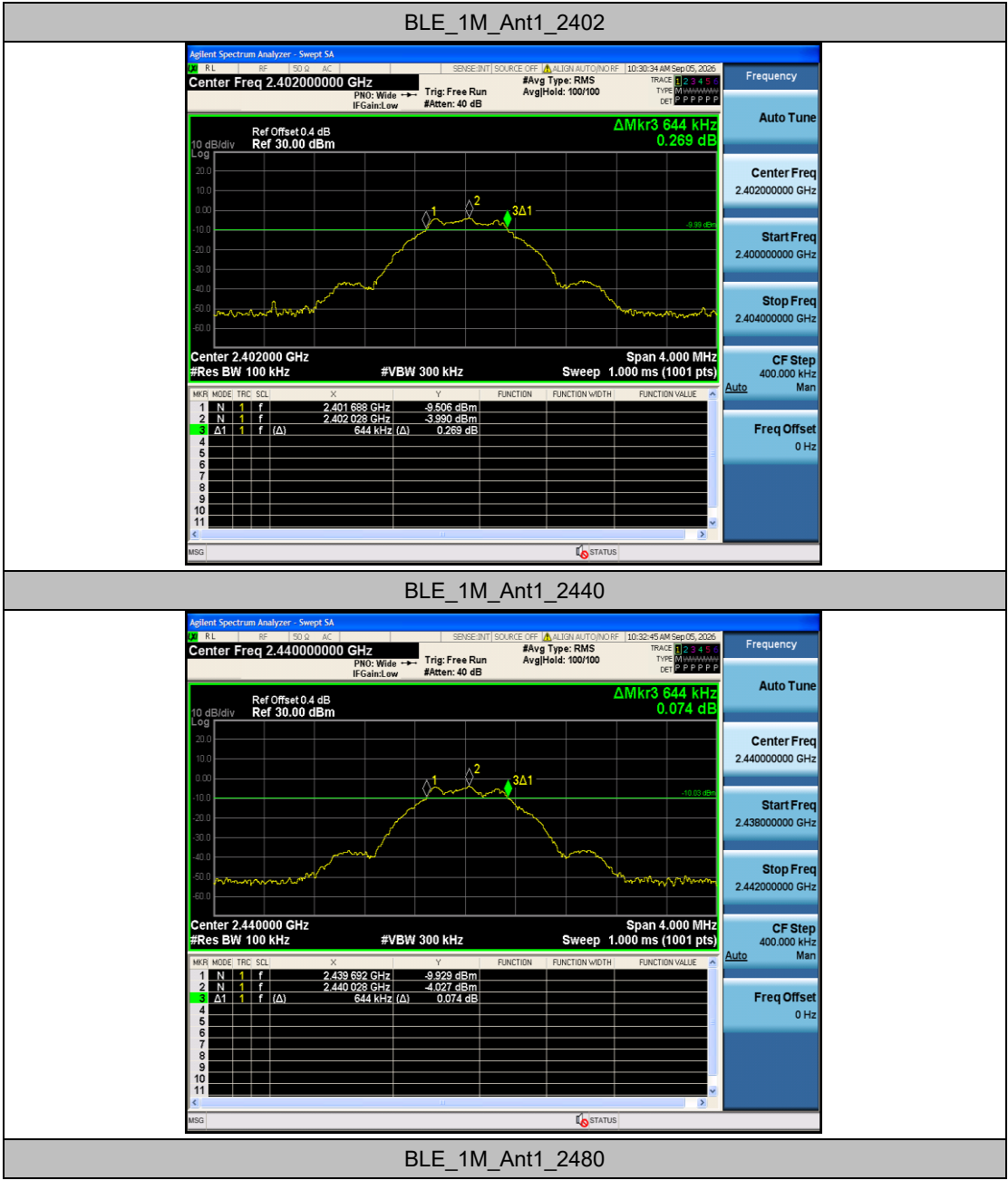
Reviewed By : Eric Wang

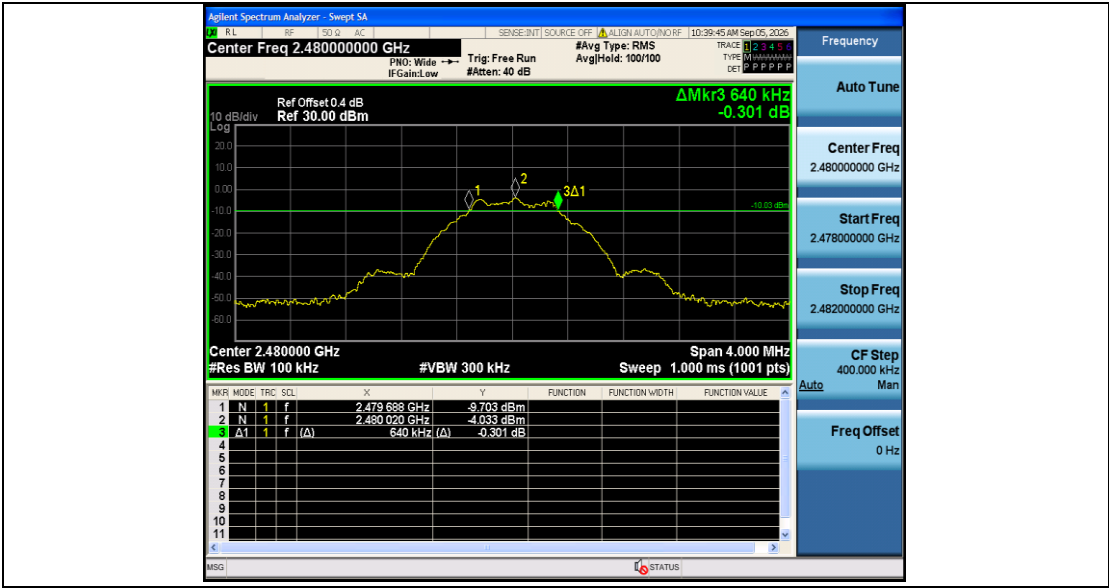
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.688	2402.332	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.640	2479.688	2480.328	0.5	PASS

Test Graphs



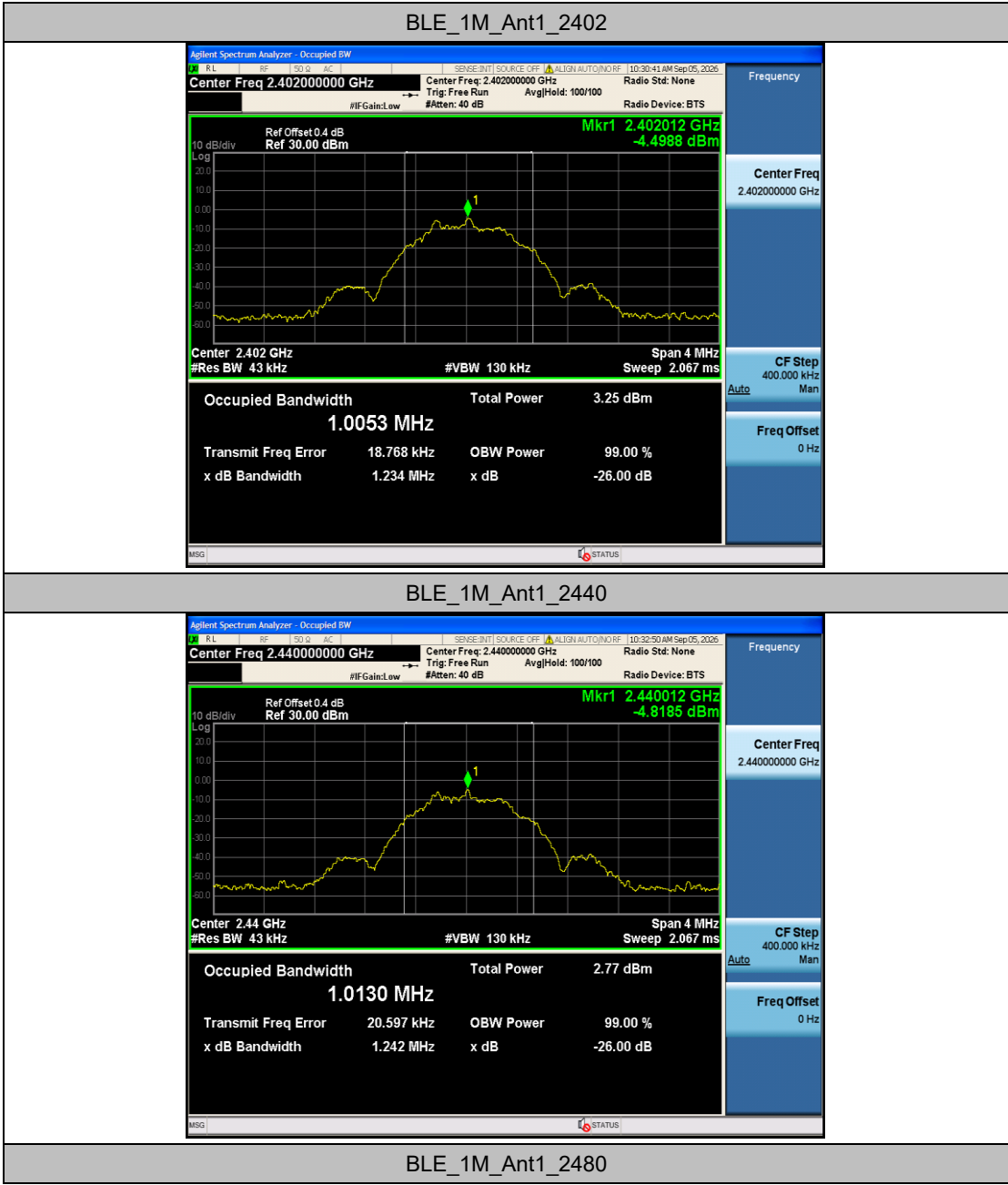


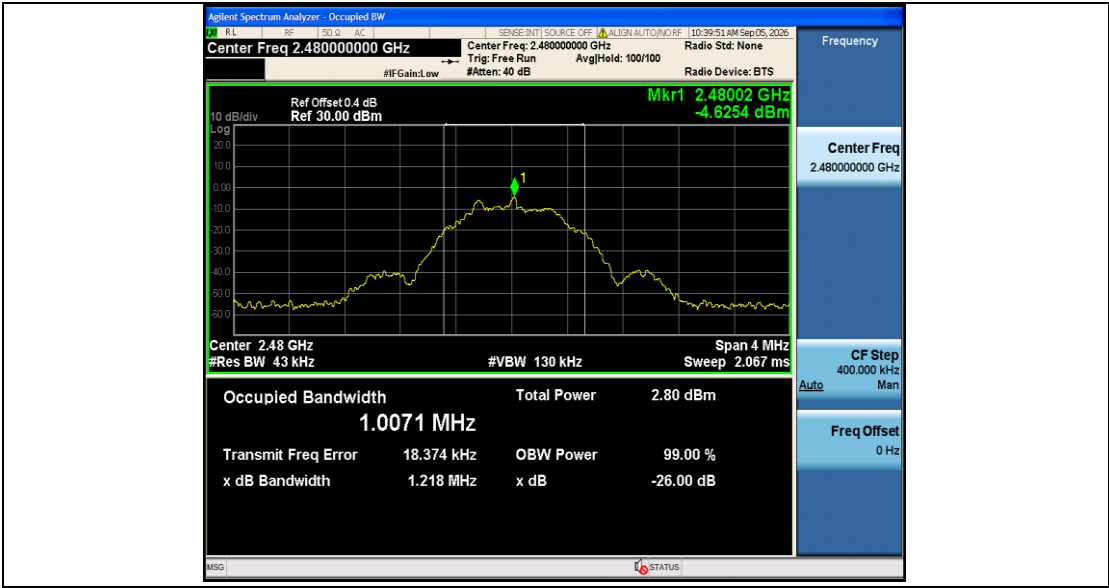
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0053	2401.5161	2402.5214	---	---
		2440	1.0130	2439.5141	2440.5271	---	---
		2480	1.0071	2479.5148	2480.5219	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

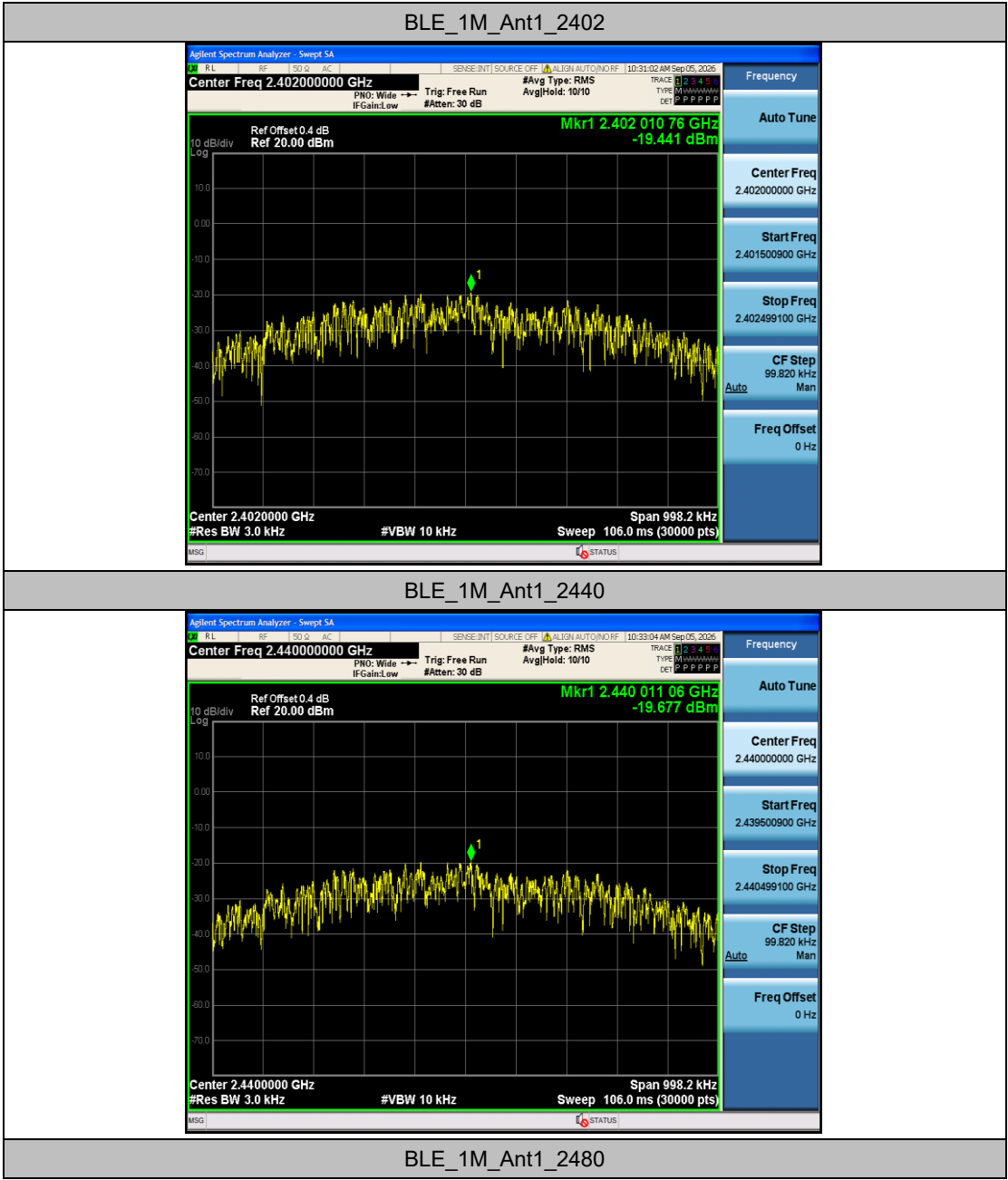
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.57	≤30	PASS
		2440	-3.66	≤30	PASS
		2480	-3.84	≤30	PASS

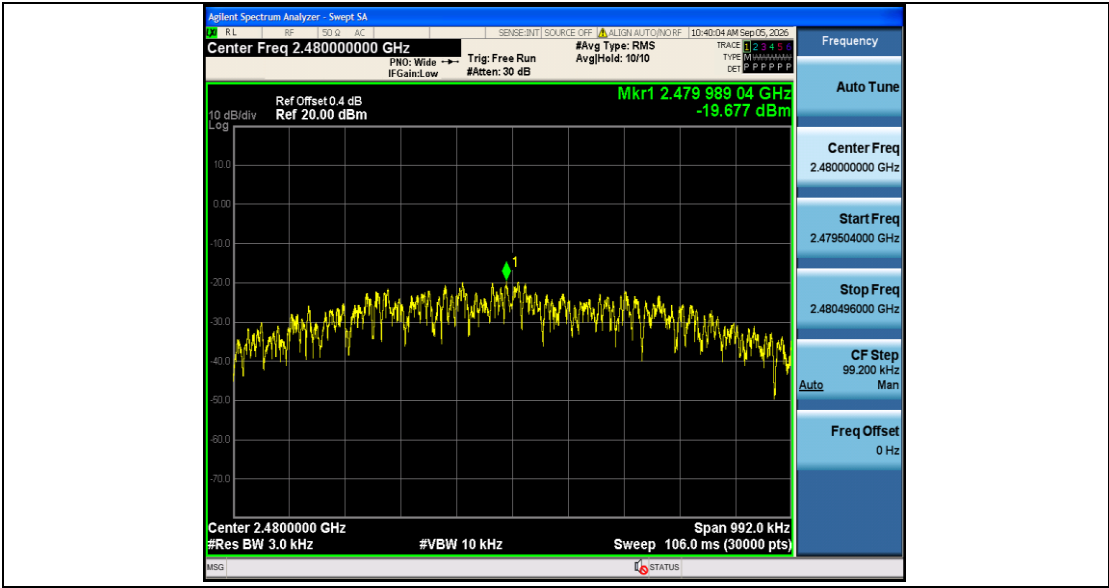
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.44	≤8.00	PASS
		2440	-19.68	≤8.00	PASS
		2480	-19.68	≤8.00	PASS

Test Graphs



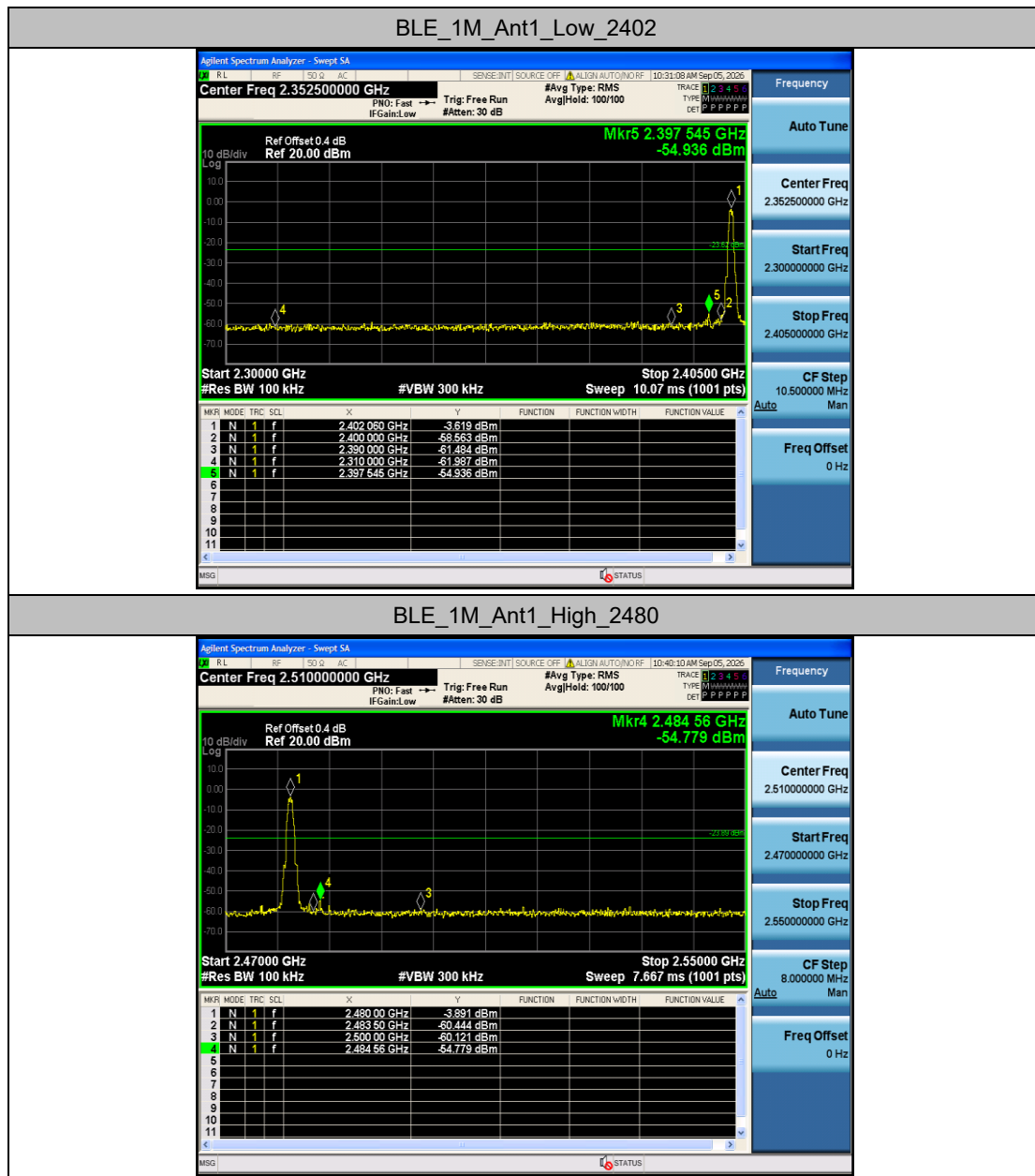


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.62	-54.94	≤-23.62	PASS
		High	2480	-3.89	-54.78	≤-23.89	PASS

Test Graphs

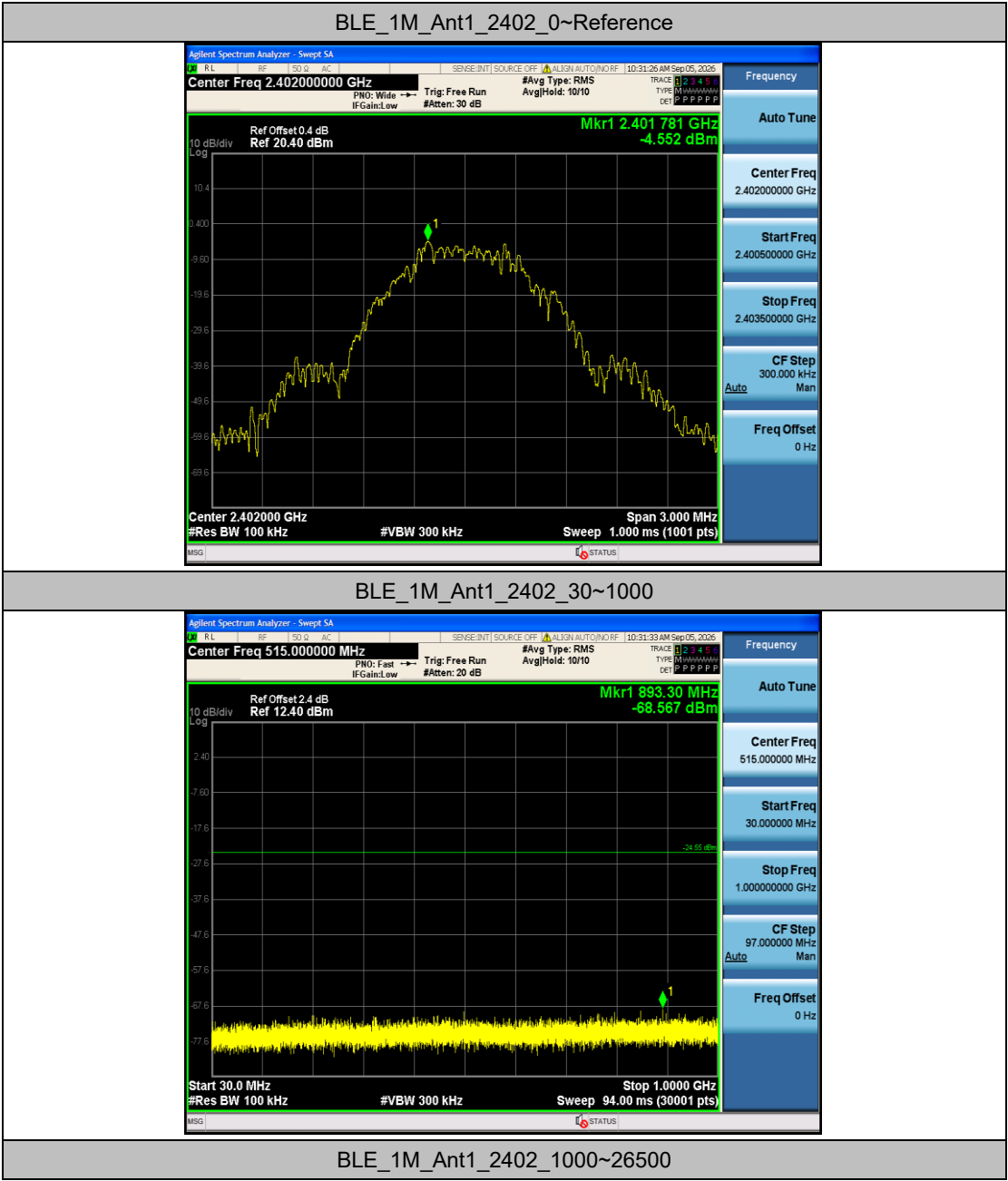


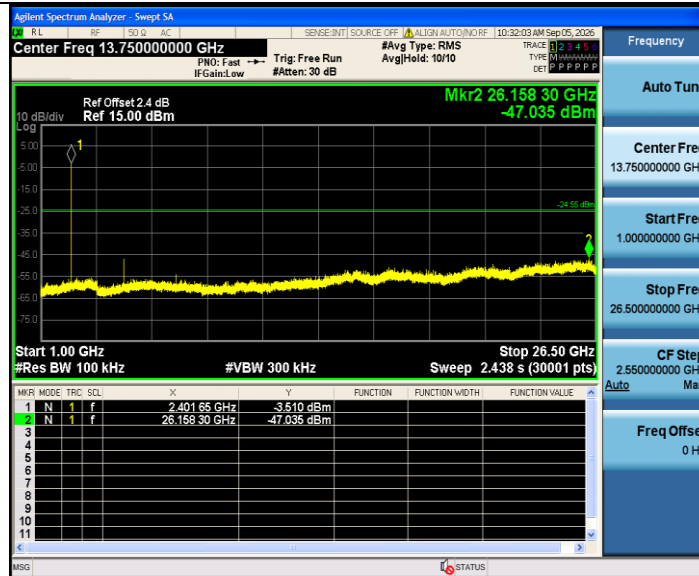
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.55	-4.55	---	PASS
			30~1000	-4.55	-68.57	≤-24.55	PASS
			1000~26500	-4.55	-47.04	≤-24.55	PASS
		2440	Reference	-3.97	-3.97	---	PASS
			30~1000	-3.97	-69.1	≤-23.97	PASS
			1000~26500	-3.97	-45.42	≤-23.97	PASS
		2480	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-69.59	≤-24.78	PASS
			1000~26500	-4.78	-46.07	≤-24.78	PASS

Test Graphs

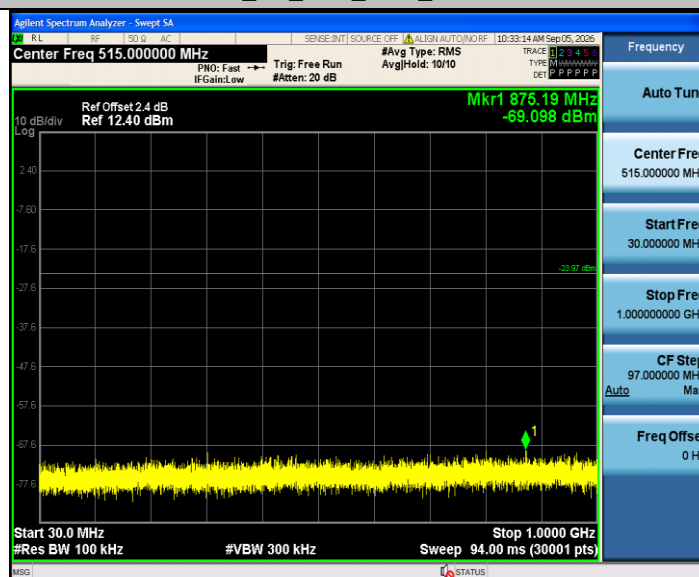




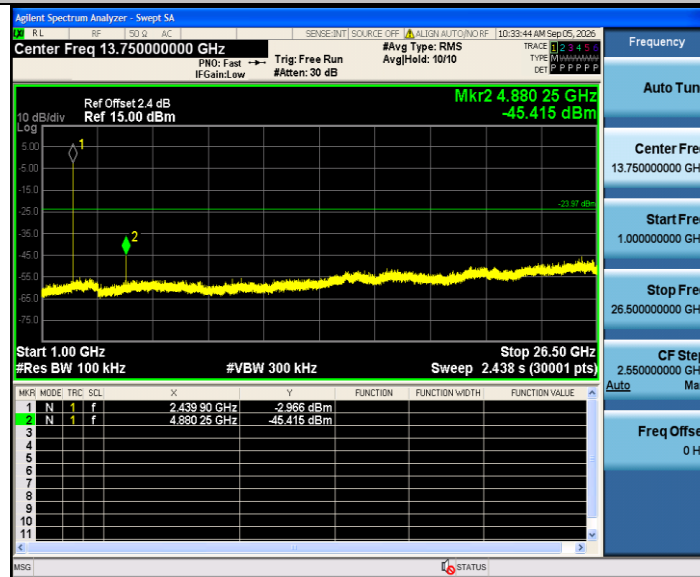
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



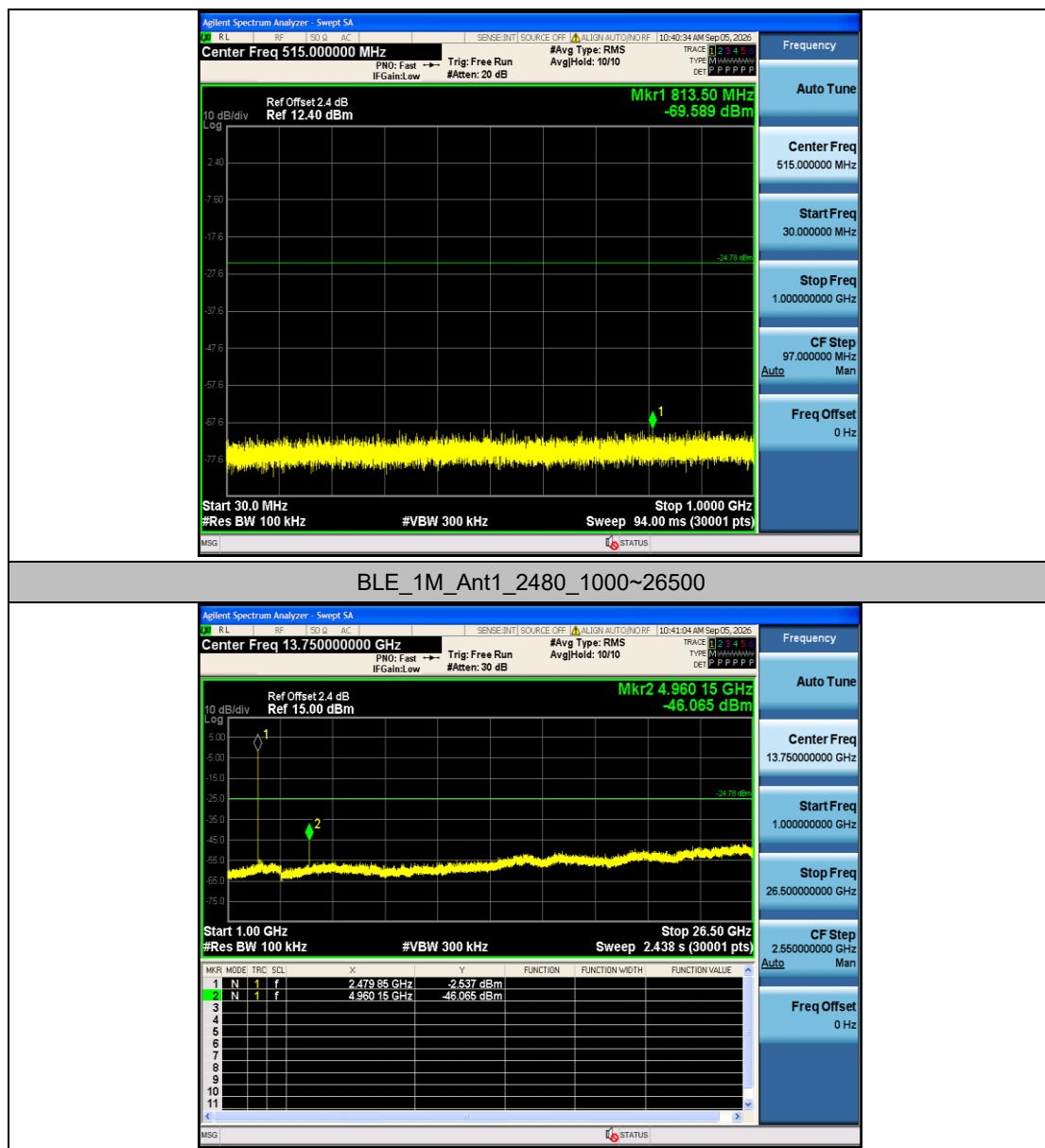
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

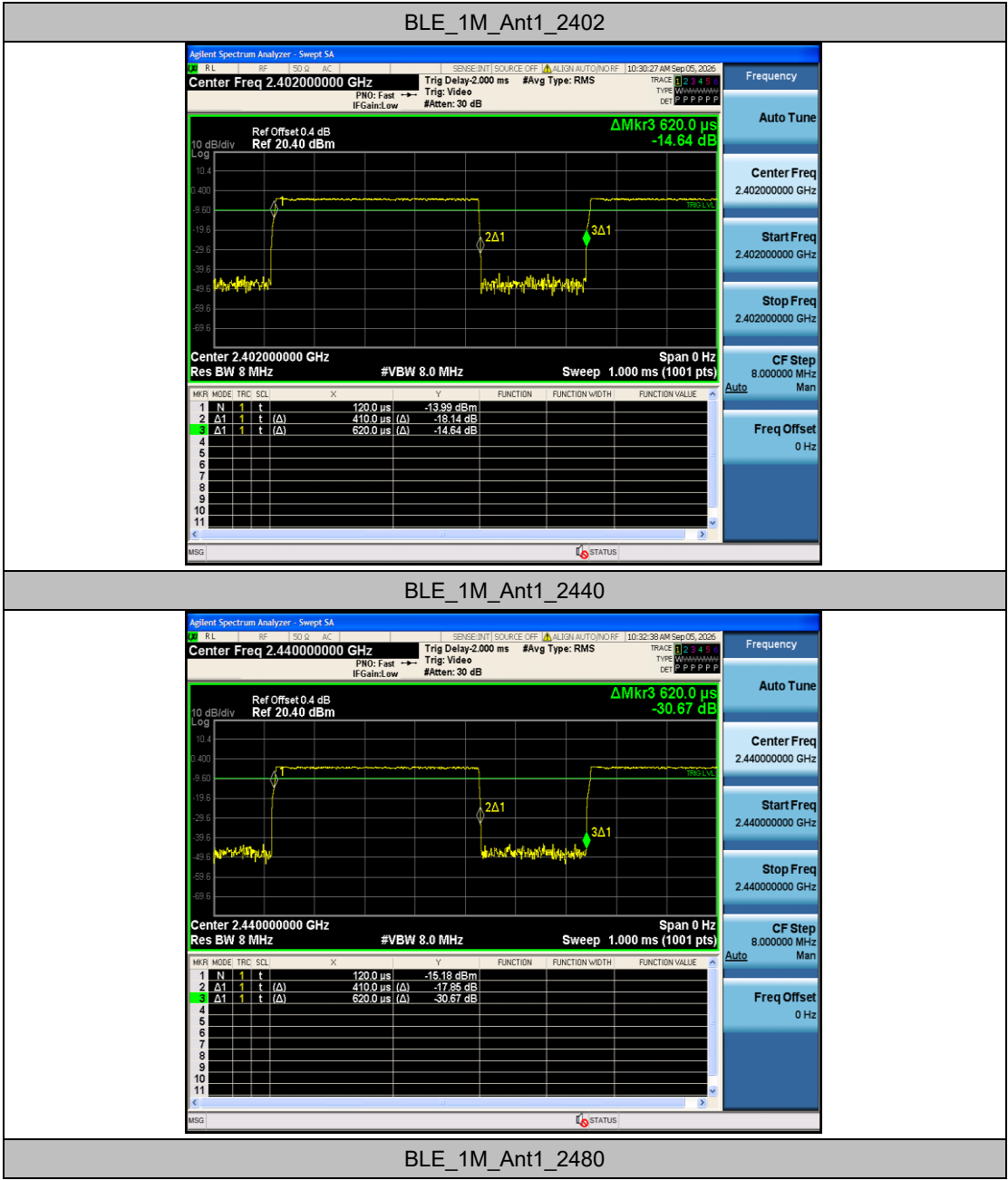


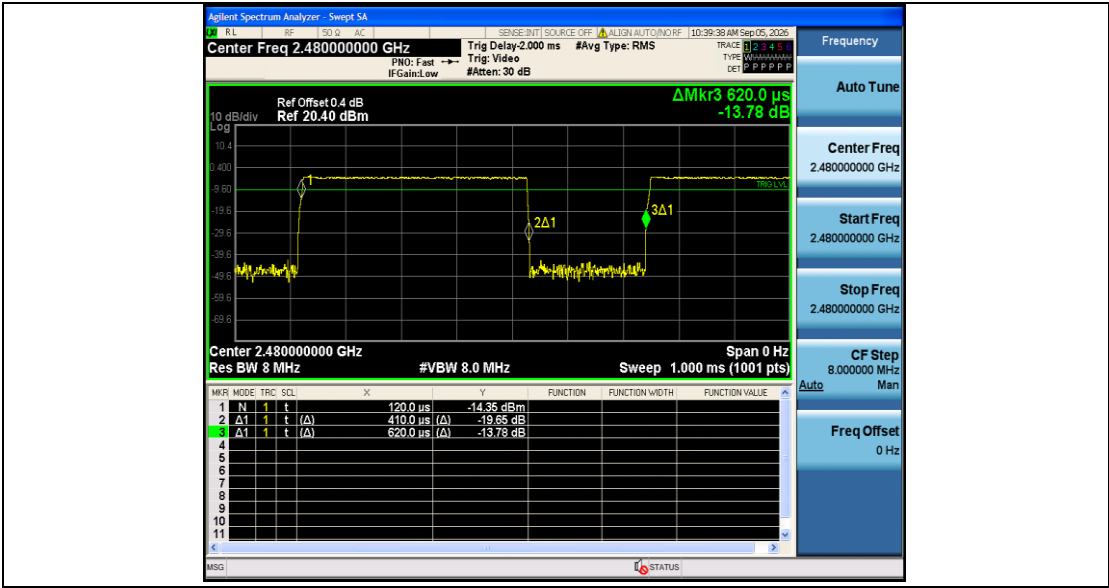
Appendix G: Duty Cycle

Test Result

Test Mode	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

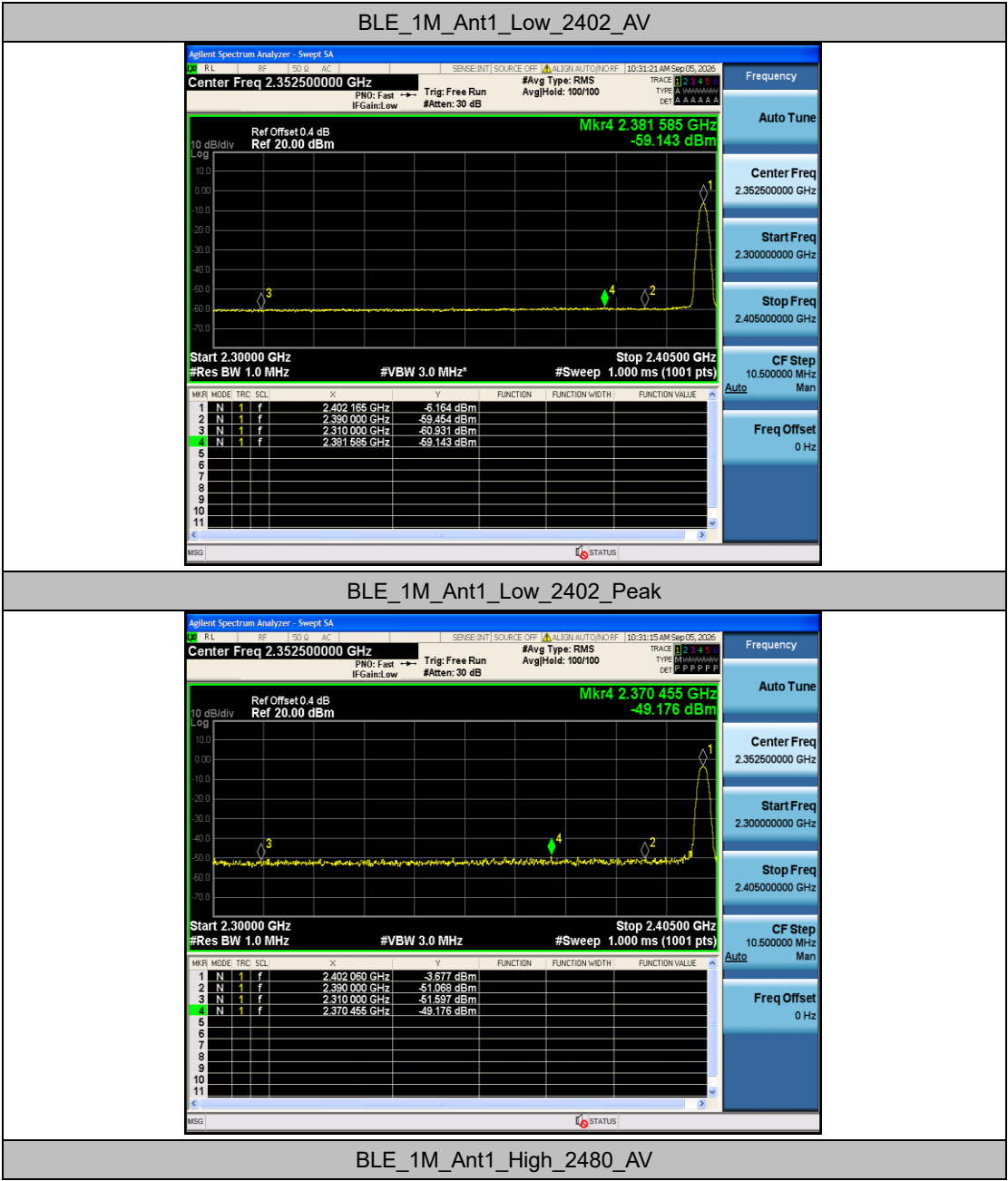
Test Result

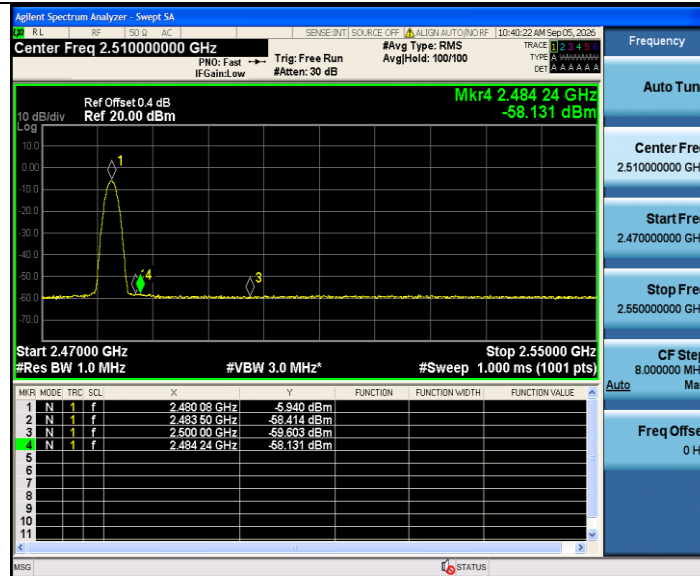
Test Mode	Antenna	Channel Name	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.93	3.2	1.80	39.27	≤54	PASS
				AV	2381.585	-59.14	3.2	1.80	41.06	≤54	PASS
				AV	2390.000	-59.45	3.2	1.80	40.75	≤54	PASS
				Peak	2310.000	-51.6	3.2	0.00	46.8	≤74	PASS
				Peak	2370.455	-49.18	3.2	0.00	49.22	≤74	PASS
				Peak	2390.000	-51.07	3.2	0.00	47.33	≤74	PASS
		High	2480	AV	2483.500	-58.41	3.2	1.80	41.79	≤54	PASS
				AV	2484.240	-58.13	3.2	1.80	42.07	≤54	PASS
				AV	2500.000	-59.6	3.2	1.80	40.6	≤54	PASS
				Peak	2483.500	-49.09	3.2	0.00	49.31	≤74	PASS
				Peak	2484.720	-46.91	3.2	0.00	51.49	≤74	PASS
				Peak	2500.000	-51.26	3.2	0.00	47.14	≤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

