

FCC Appendix RF Test Data for BLE

FCC ID : 2BW3U-MS-8-CM5-B

Company : MYPLAYER LTD

EUT : MY TOUCH T8

Model Number : MS-8-CM5-B

Report No. : CTA26072901201

Reviewed By : Eric Wang

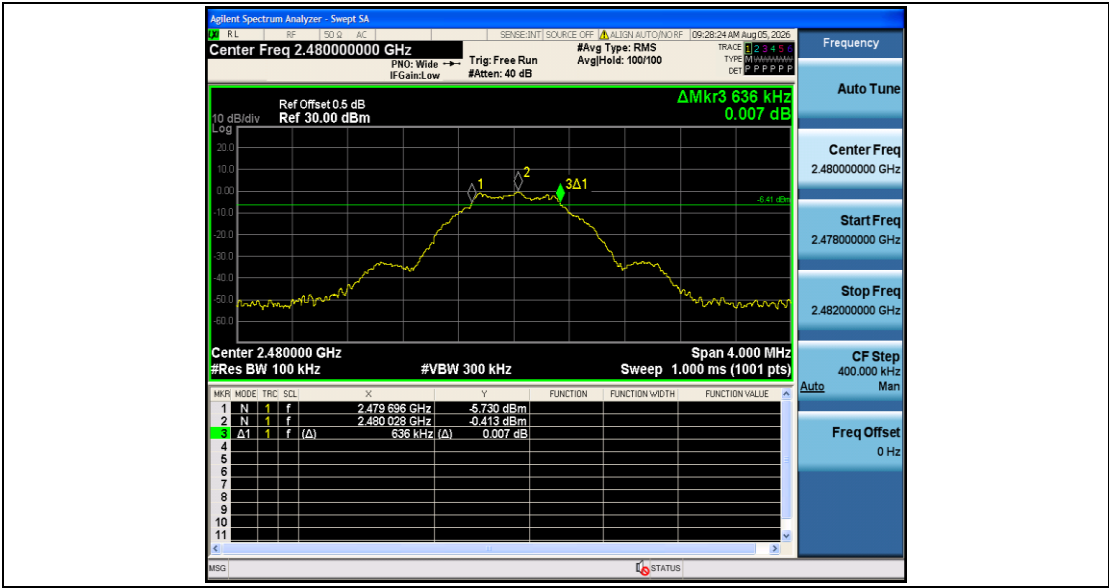
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.688	2402.340	0.5	PASS
		2440	0.648	2439.692	2440.340	0.5	PASS
		2480	0.636	2479.696	2480.332	0.5	PASS

Test Graphs



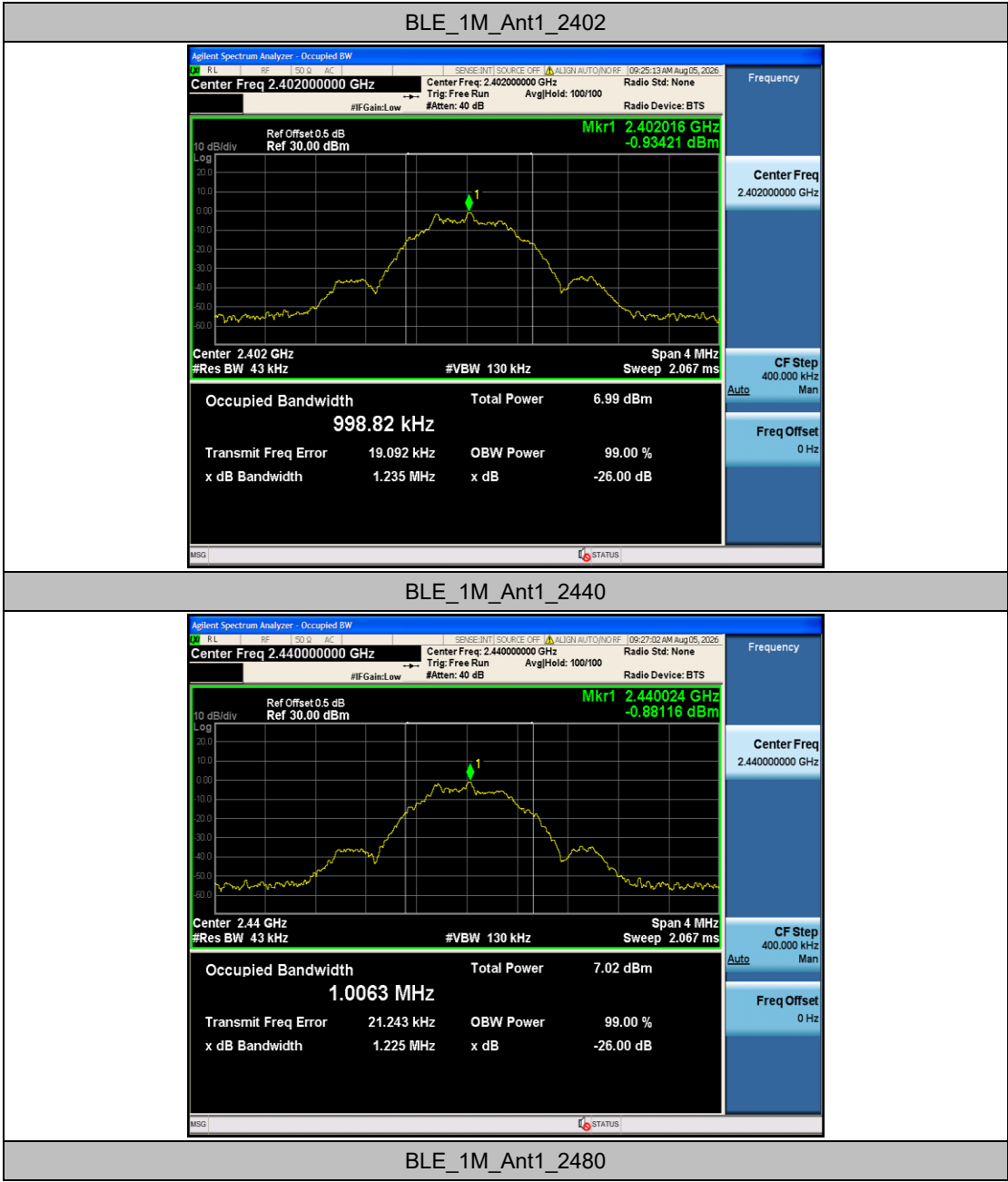


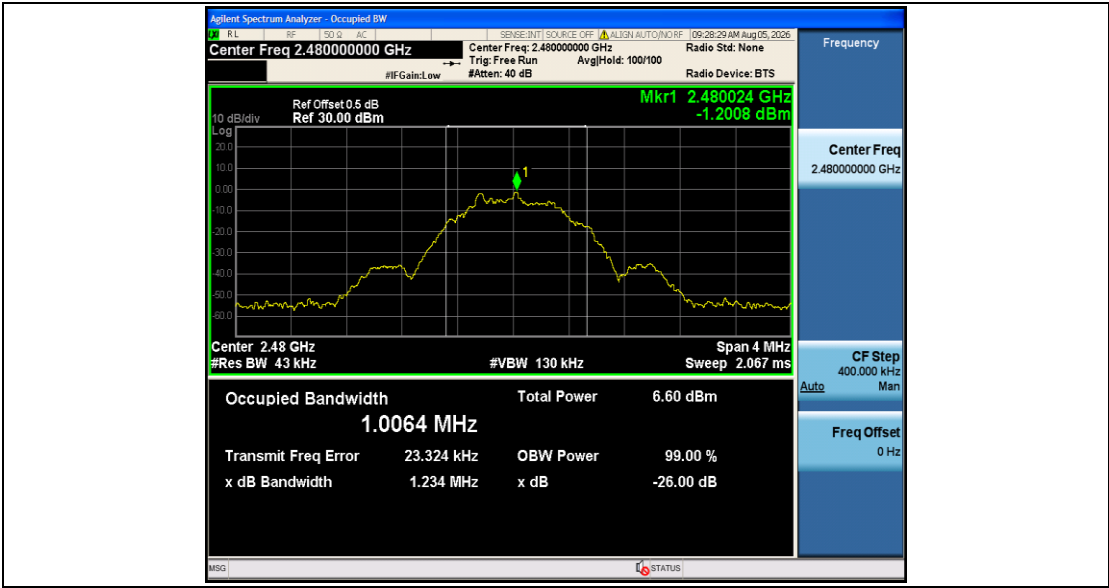
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99882	2401.5197	2402.5185	---	---
		2440	1.0063	2439.5181	2440.5244	---	---
		2480	1.0064	2479.5201	2480.5265	---	---

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	0.31	≤30	PASS
		2440	0.13	≤30	PASS
		2480	-0.17	≤30	PASS

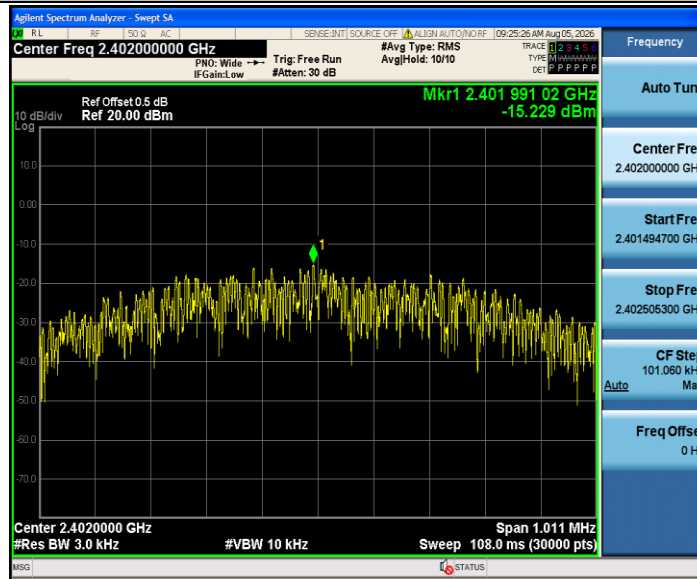
Appendix D: Maximum power spectral density

Test Result

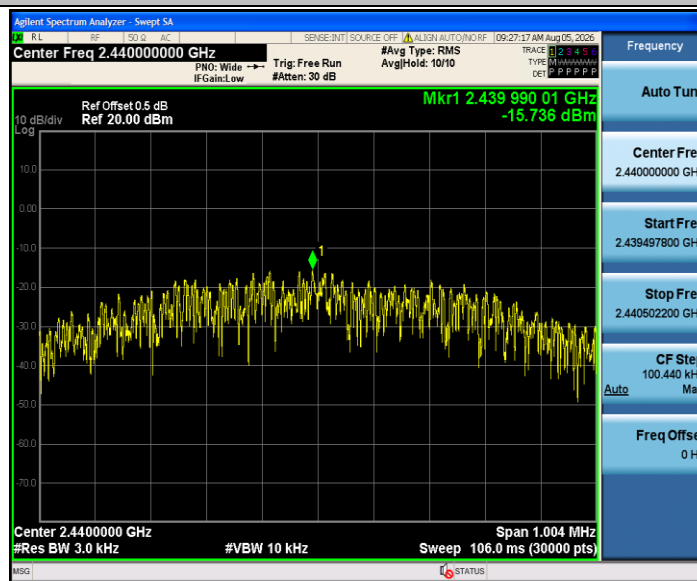
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.23	≤8.00	PASS
		2440	-15.74	≤8.00	PASS
		2480	-16.41	≤8.00	PASS

Test Graphs

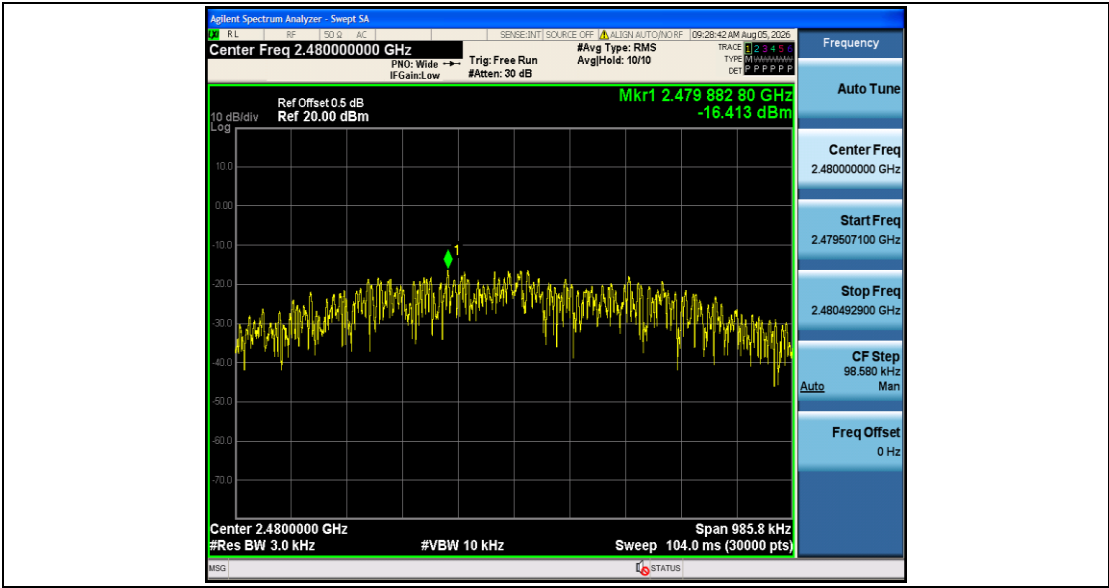
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

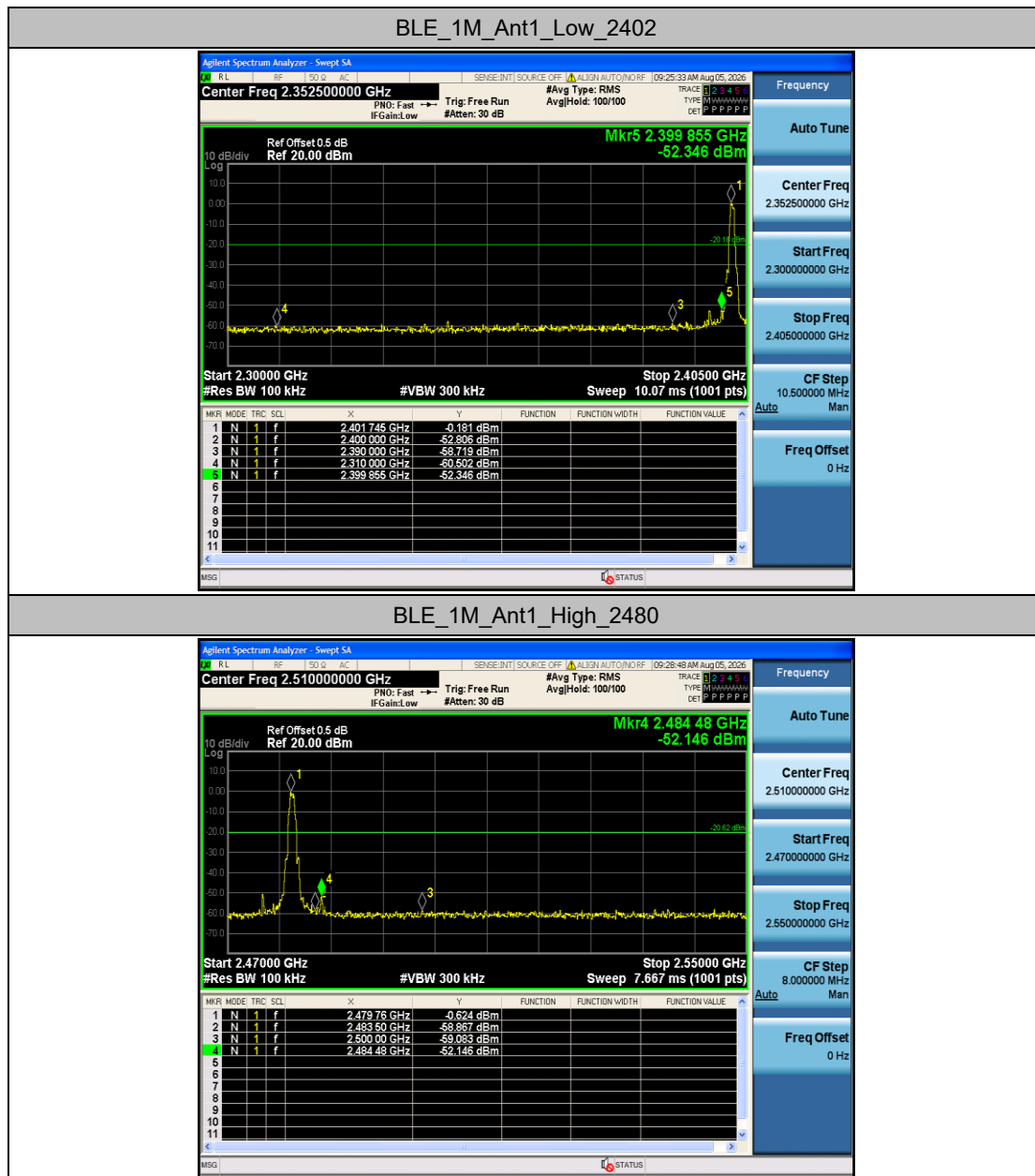


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.18	-52.35	≤-20.18	PASS
		High	2480	-0.62	-52.15	≤-20.62	PASS

Test Graphs

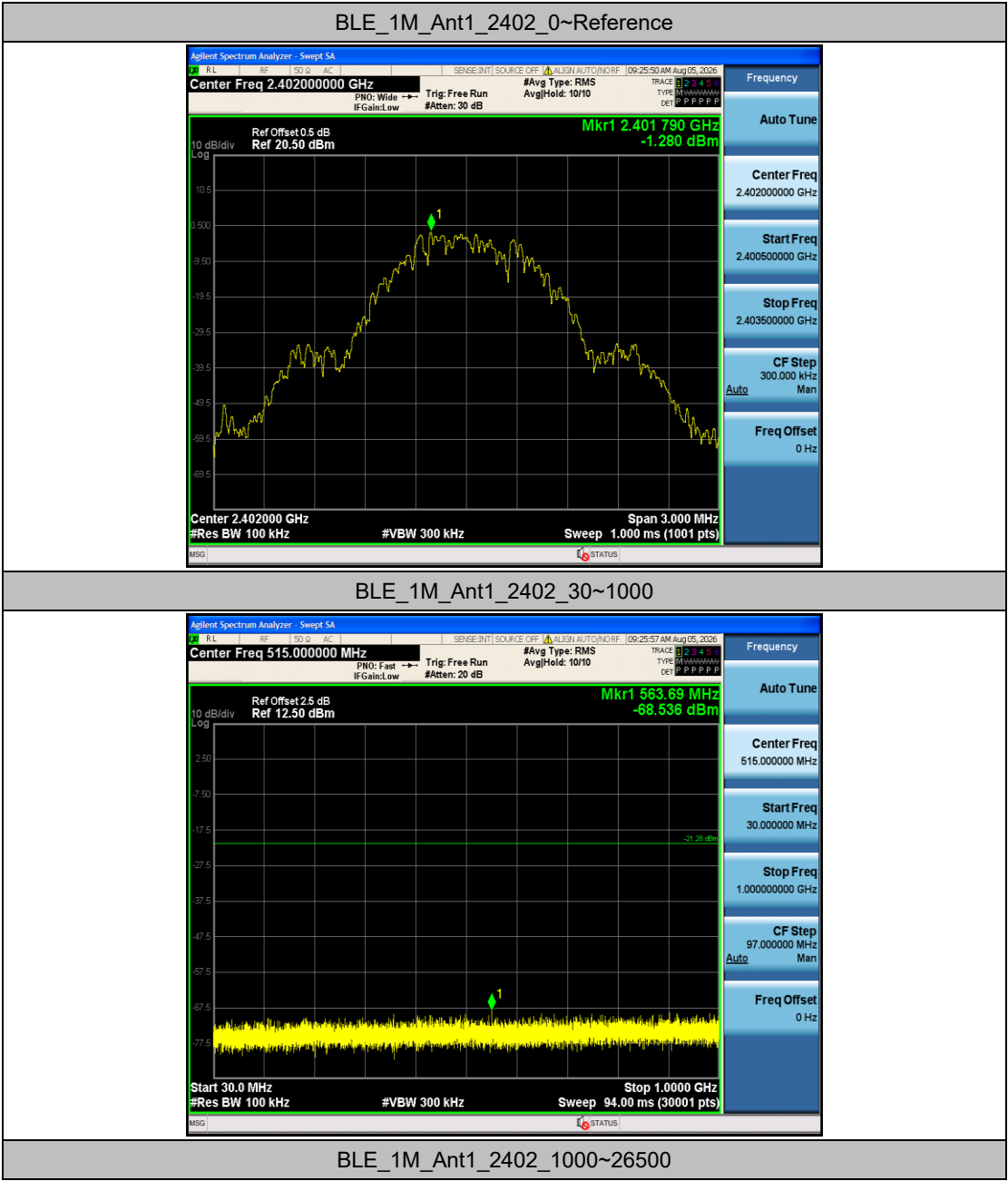


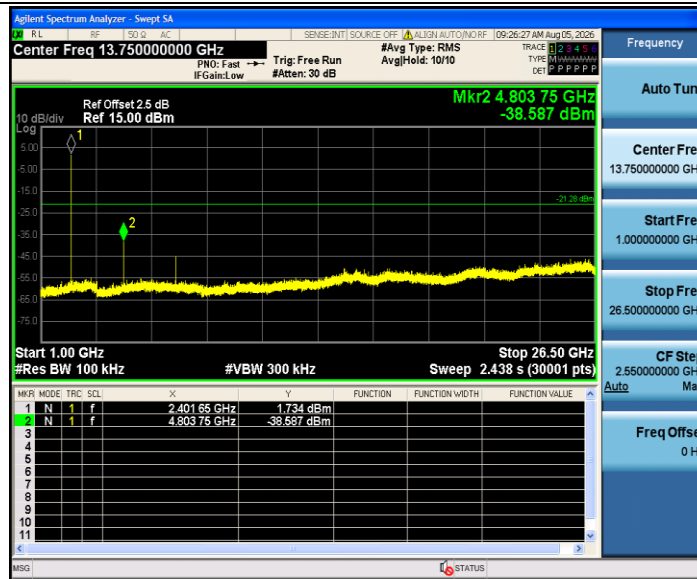
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.28	-1.28	---	PASS
			30~1000	-1.28	-68.54	≤-21.28	PASS
			1000~26500	-1.28	-38.59	≤-21.28	PASS
		2440	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-67.57	≤-20.11	PASS
			1000~26500	-0.11	-42.46	≤-20.11	PASS
		2480	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-68.48	≤-21.41	PASS
			1000~26500	-1.41	-40.74	≤-21.41	PASS

Test Graphs

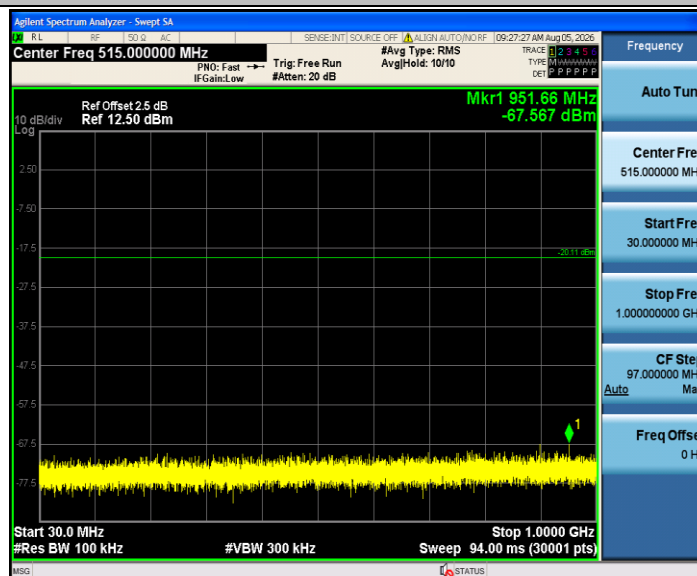




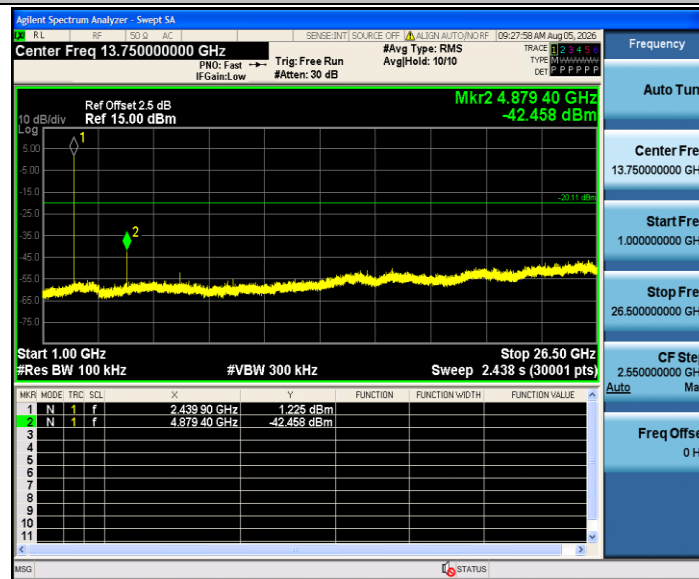
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



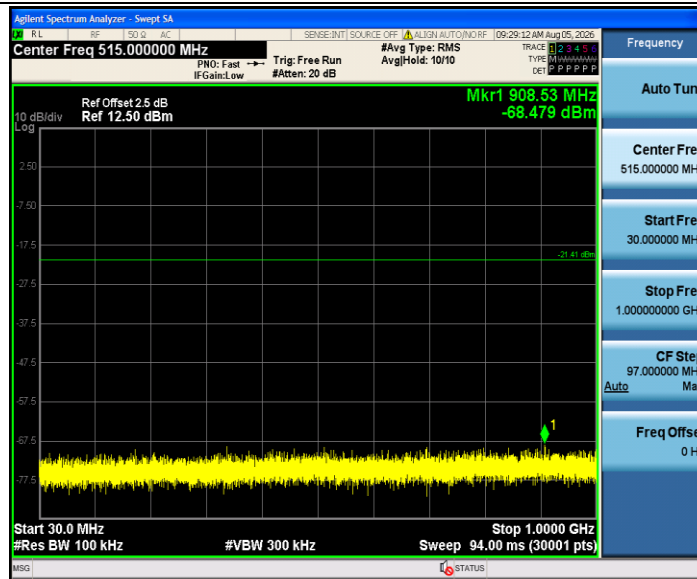
BLE_1M_Ant1_2440_1000~26500



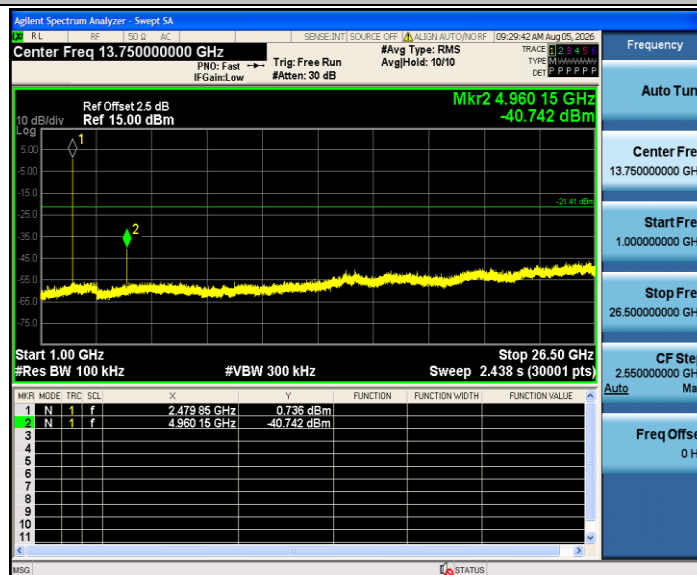
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

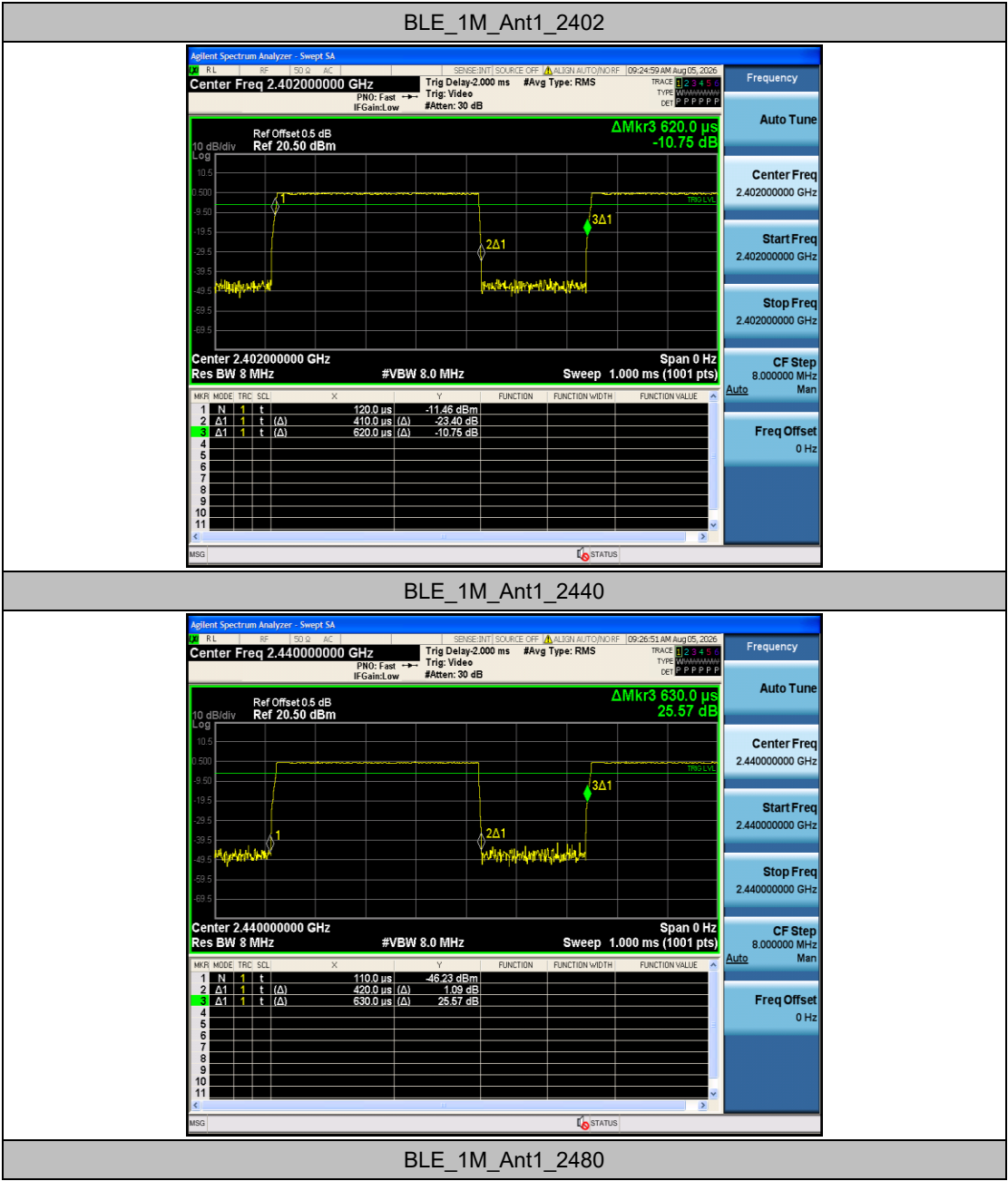


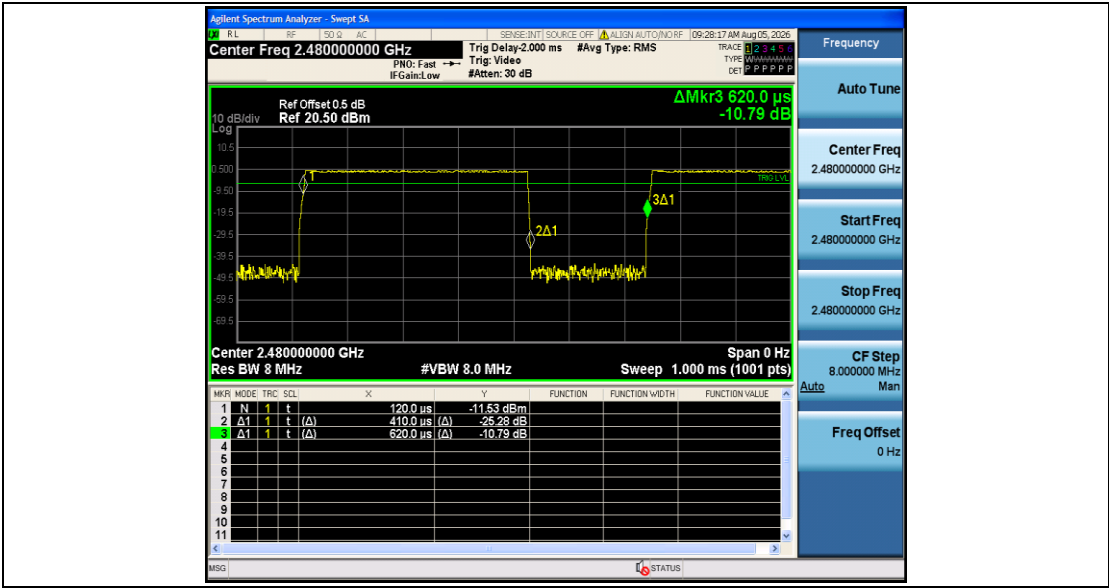
Appendix G: Duty Cycle

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	0.42	0.63	0.6667	66.67	1.76	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

Test Result

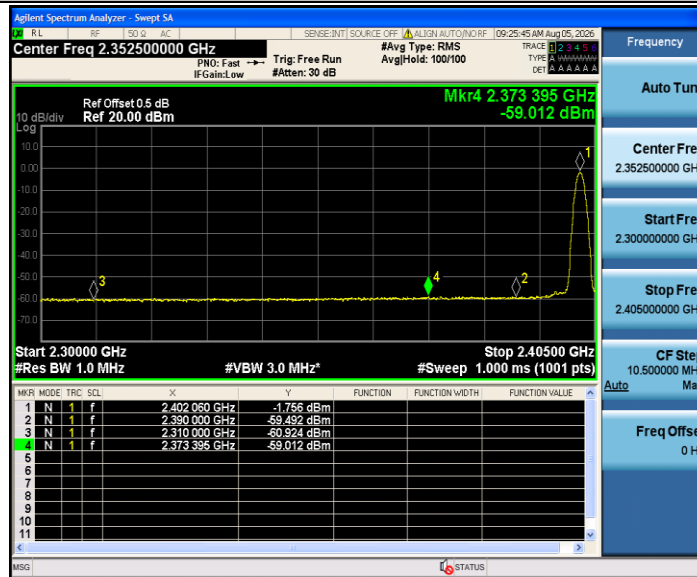
TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.92	2.00	1.80	38.08	≤54	PASS
				AV	2373.395	-59.01	2.00	1.80	39.99	≤54	PASS
				AV	2390.000	-59.49	2.00	1.80	39.51	≤54	PASS
				Peak	2310.000	-53.75	2.00	0.00	43.45	≤74	PASS
				Peak	2386.310	-48.64	2.00	0.00	48.56	≤74	PASS
				Peak	2390.000	-51.15	2.00	0.00	46.05	≤74	PASS
		High	2480	AV	2483.500	-57.77	2.00	1.80	41.23	≤54	PASS
				AV	2484.320	-57.47	2.00	1.80	41.53	≤54	PASS
				AV	2500.000	-59.17	2.00	1.80	39.83	≤54	PASS
				Peak	2483.500	-50.03	2.00	0.00	47.17	≤74	PASS
				Peak	2484.240	-43.37	2.00	0.00	53.83	≤74	PASS
				Peak	2500.000	-51.1	2.00	0.00	46.10	≤74	PASS

Note:

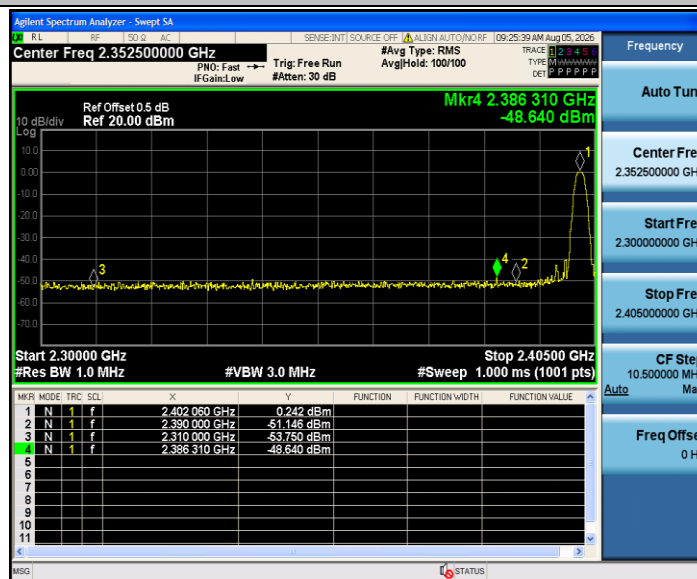
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

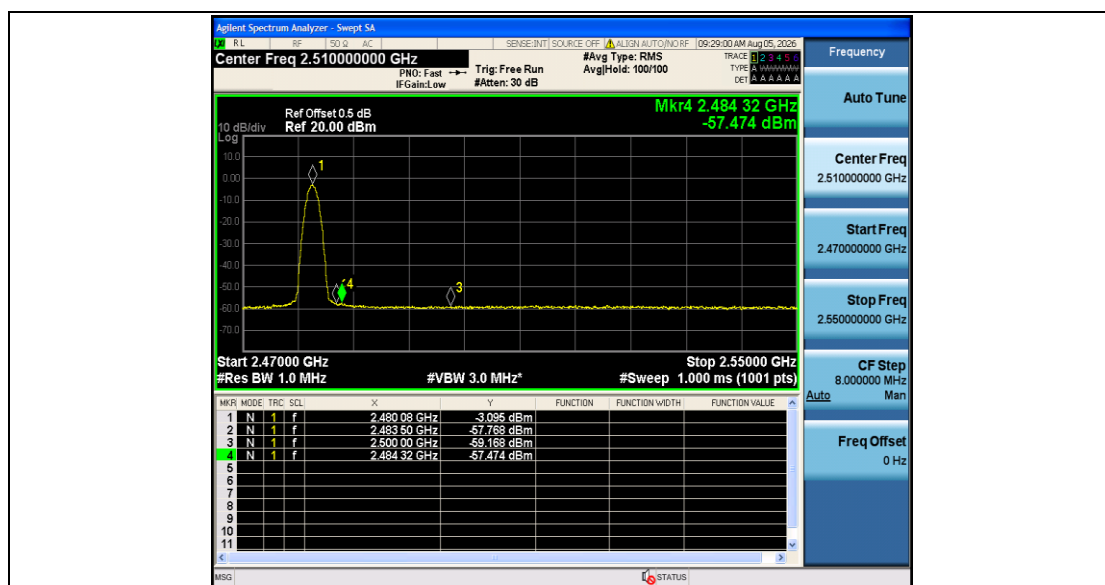
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

