

FCC Appendix RF Test Data for BLE

FCC ID : 2A3DR-AGMN2

Company : AGM MOBILE LIMITED

EUT : 4G smart Phone

Model Number : AGM_NOTE_N2

Report No. : CTA26041102313

Reviewed By : Eric Wang

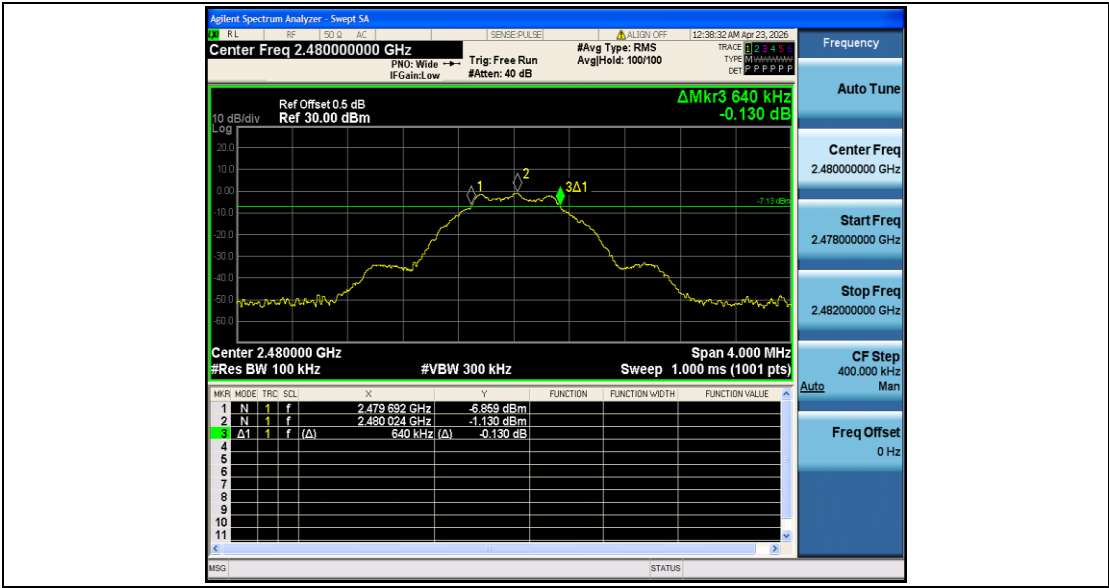
Appendix A: DTS Bandwidth

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	0.660	2439.680	2440.340	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

Test Graphs



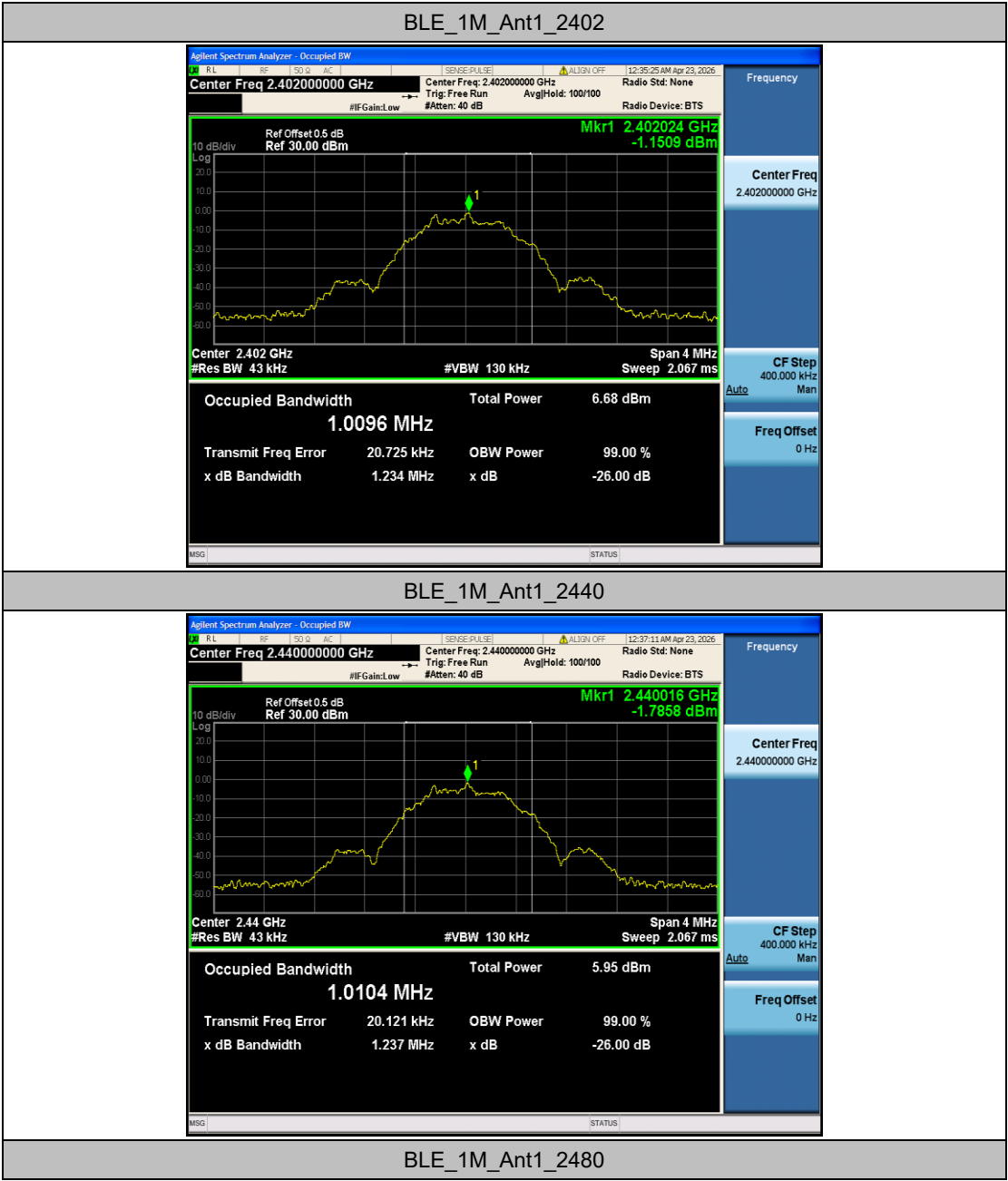


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0096	2401.5159	2402.5255	---	---
		2440	1.0104	2439.5149	2440.5253	---	---
		2480	1.0002	2479.5191	2480.5193	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

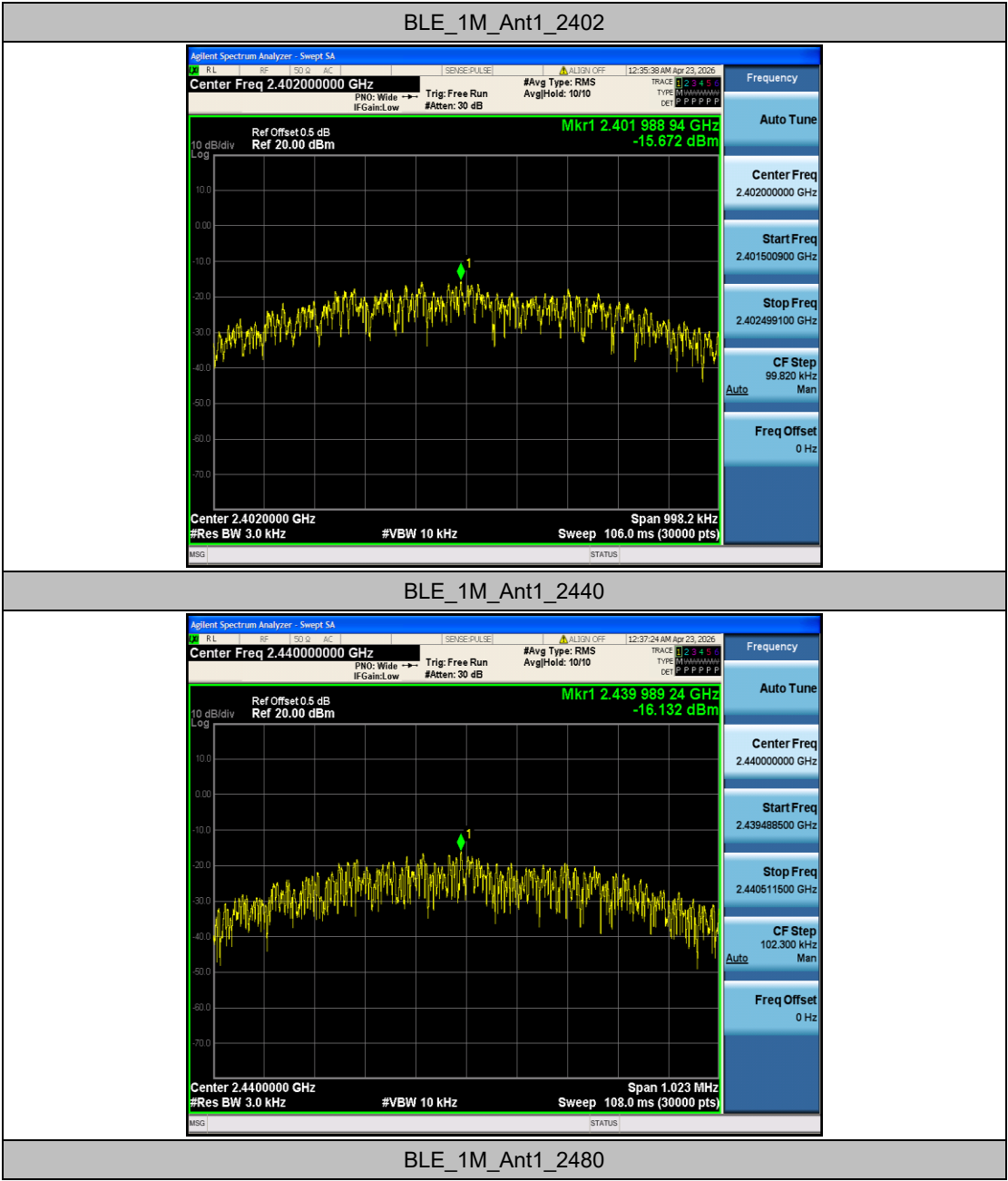
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.00	≤30	PASS
		2440	-0.60	≤30	PASS
		2480	-0.91	≤30	PASS

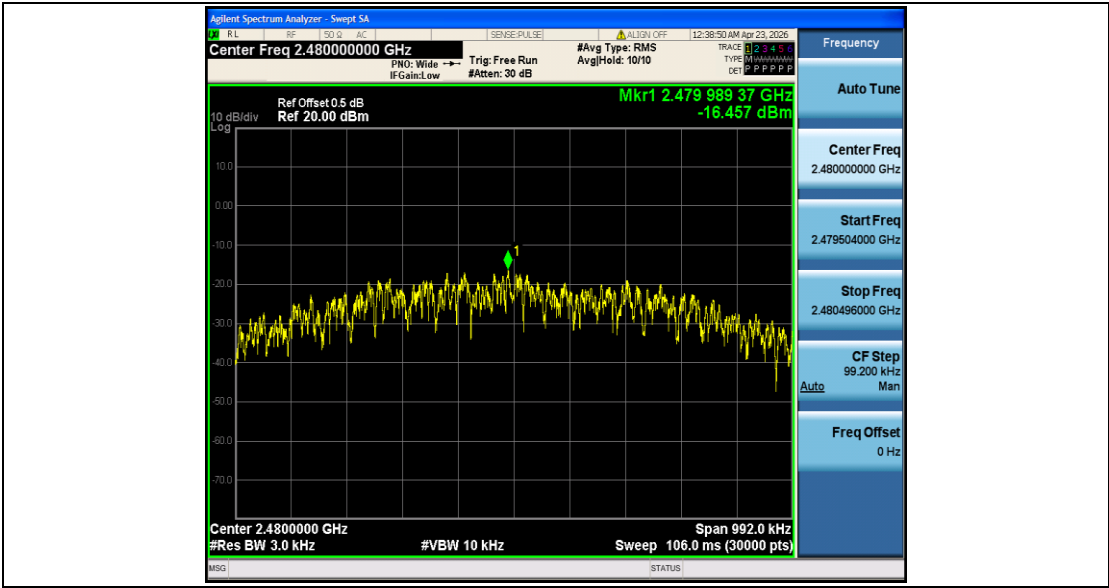
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.67	≤8.00	PASS
		2440	-16.13	≤8.00	PASS
		2480	-16.46	≤8.00	PASS

Test Graphs



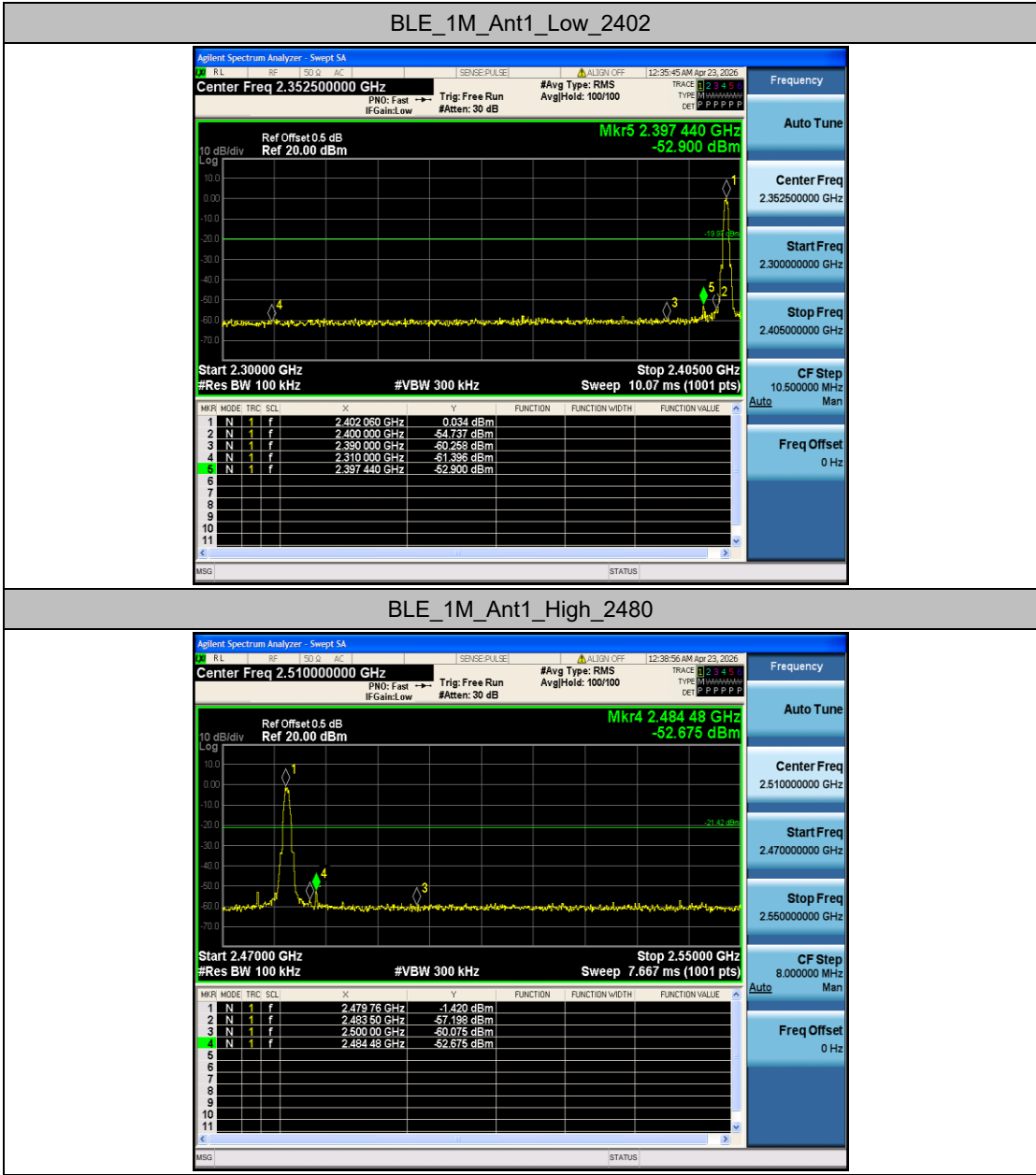


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	0.03	-52.9	≤-19.97	PASS
		High	2480	-1.42	-52.68	≤-21.42	PASS

Test Graphs

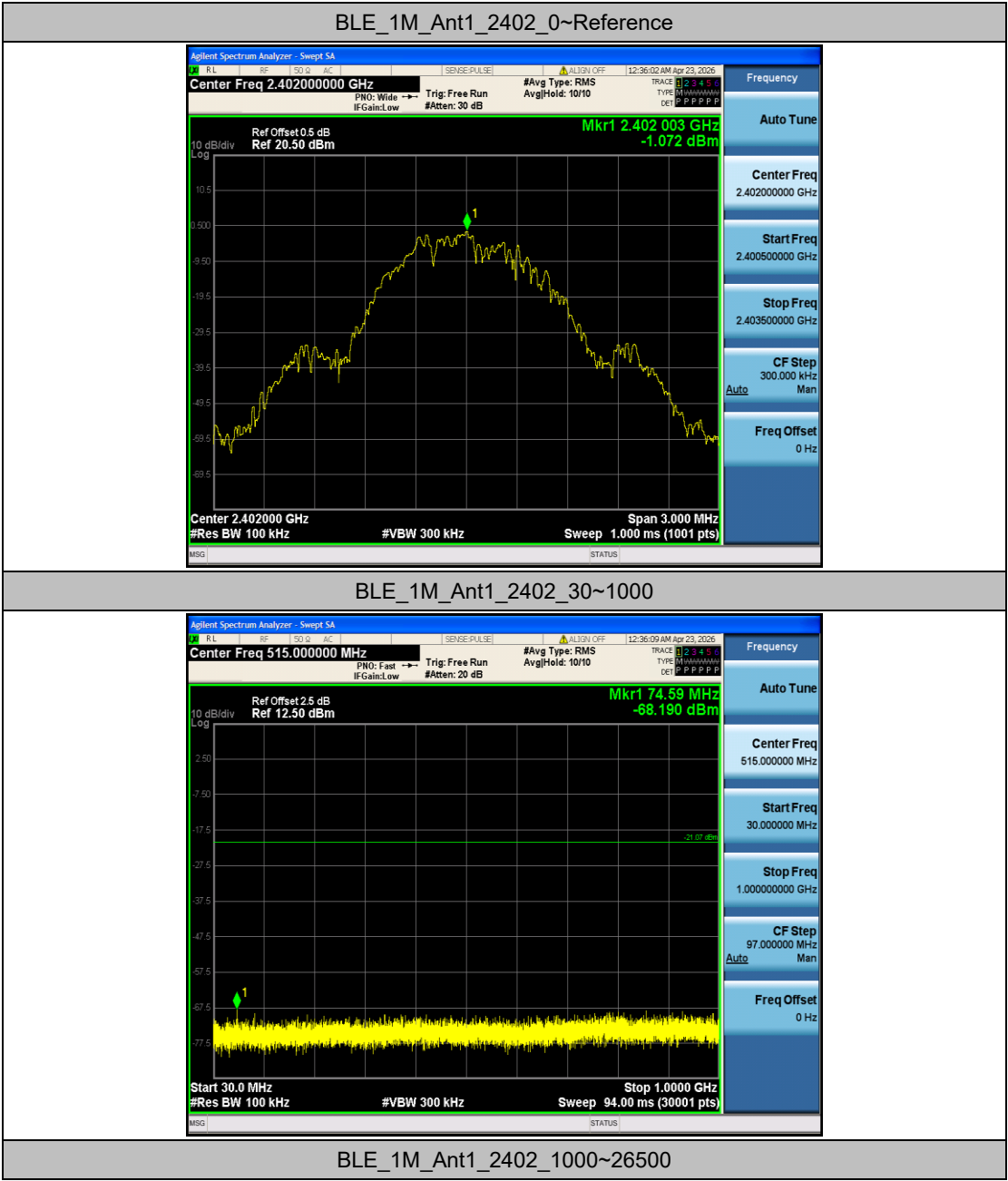


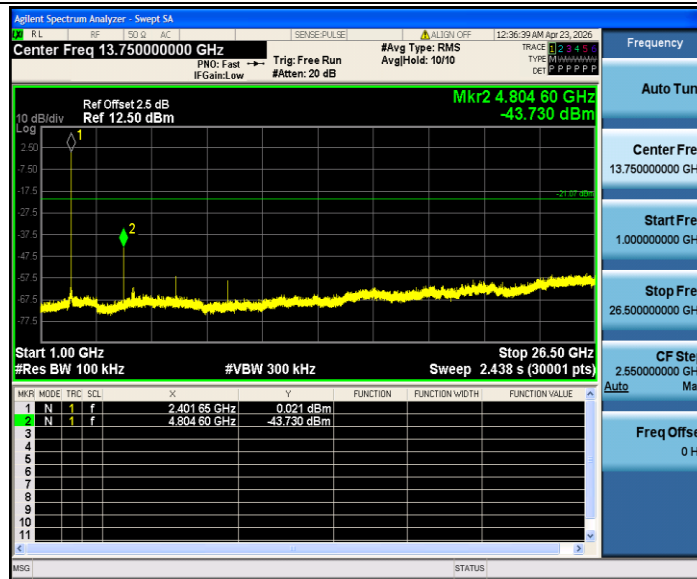
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-68.19	≤-21.07	PASS
			1000~26500	-1.07	-43.73	≤-21.07	PASS
		2440	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-68.2	≤-22.28	PASS
			1000~26500	-2.28	-43.56	≤-22.28	PASS
		2480	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-68.58	≤-22.11	PASS
			1000~26500	-2.11	-43.58	≤-22.11	PASS

Test Graphs

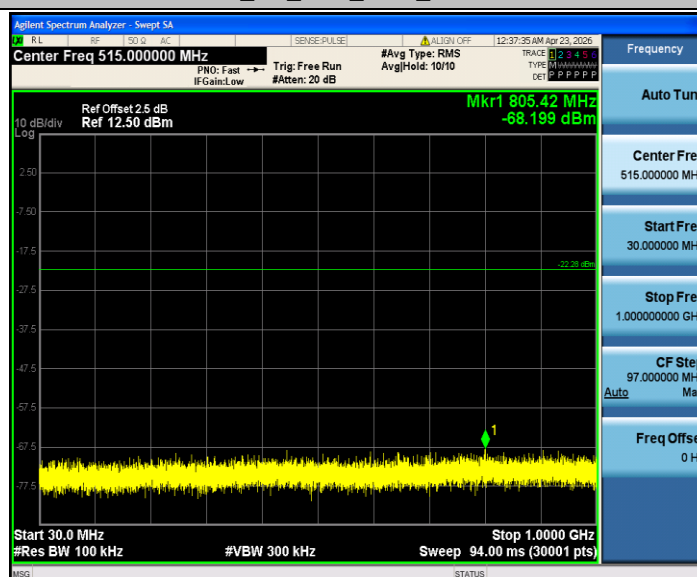




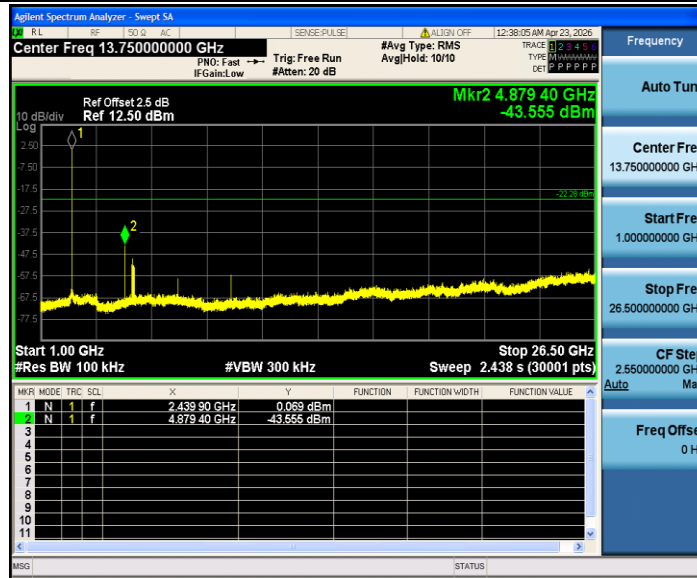
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



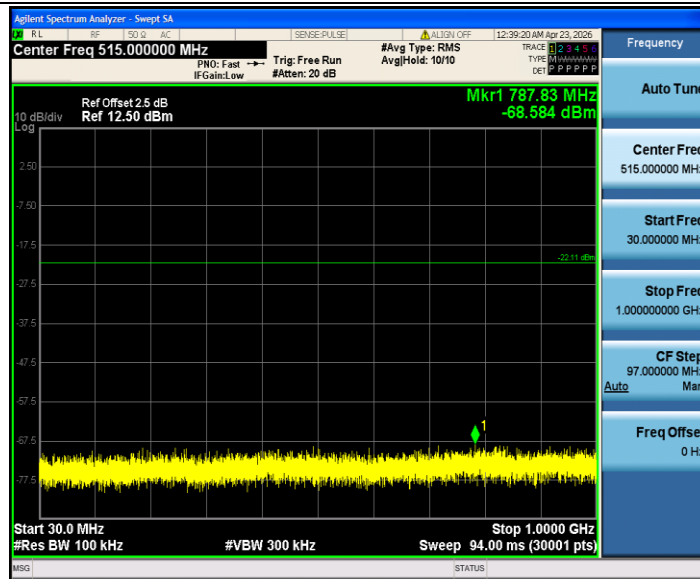
BLE_1M_Ant1_2440_1000~26500



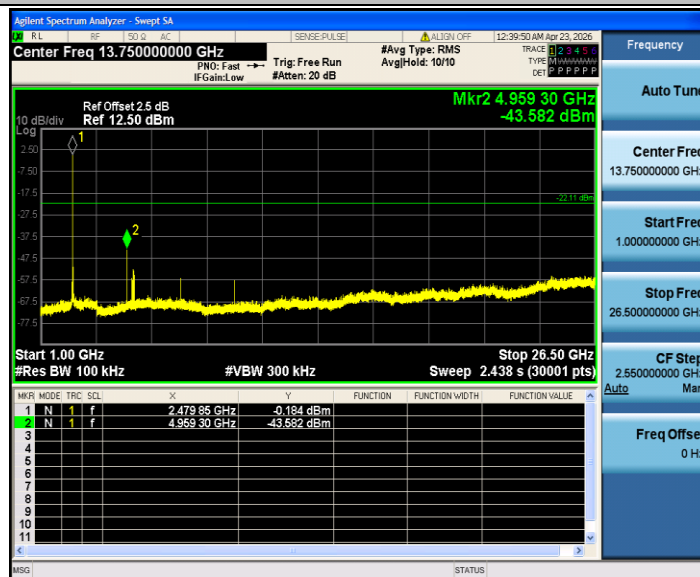
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

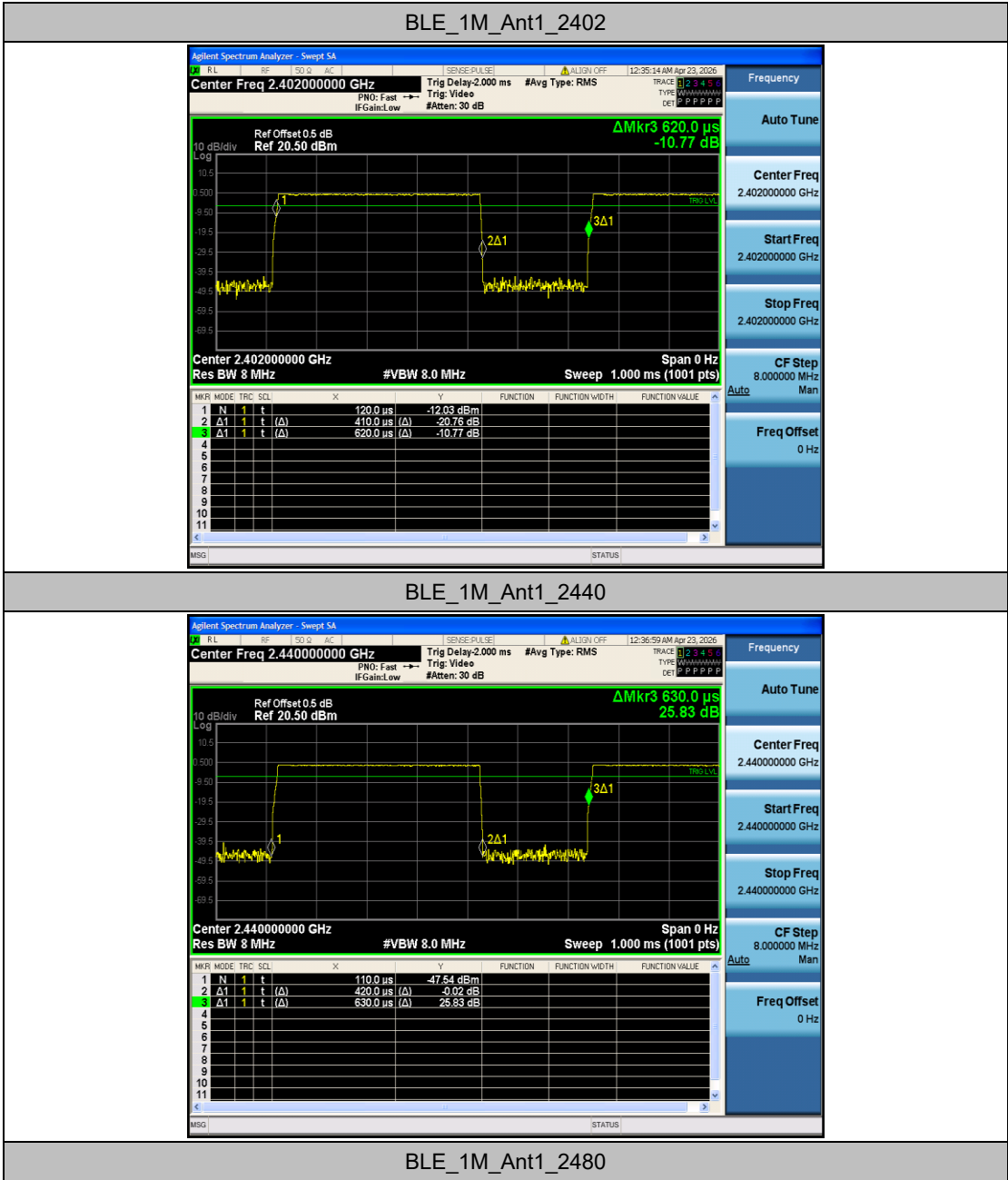


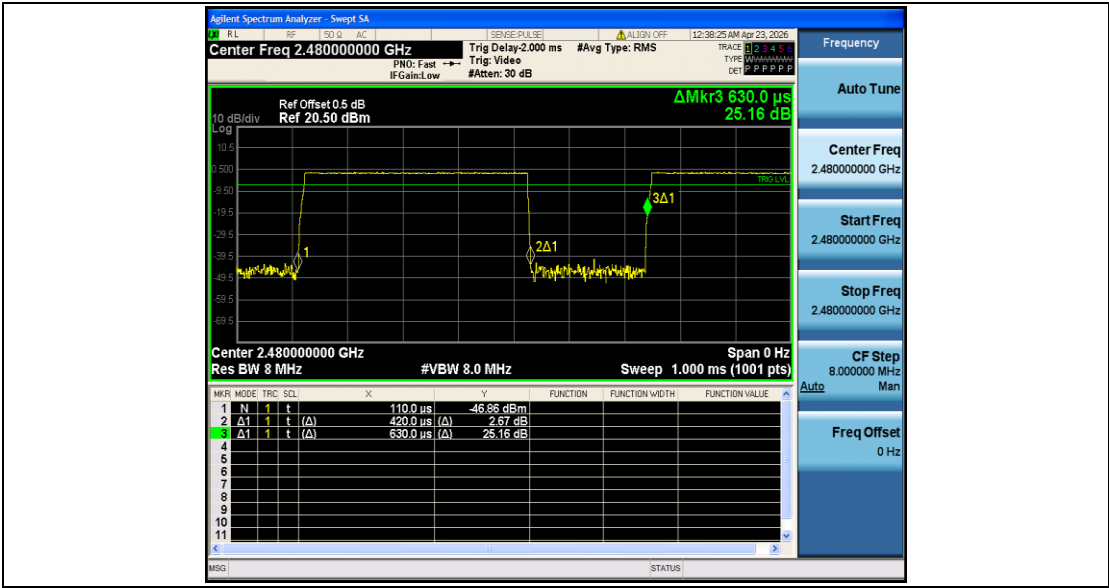
Appendix G: Duty Cycle

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	0.42	0.63	0.6667	66.67	1.76	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

Test Result

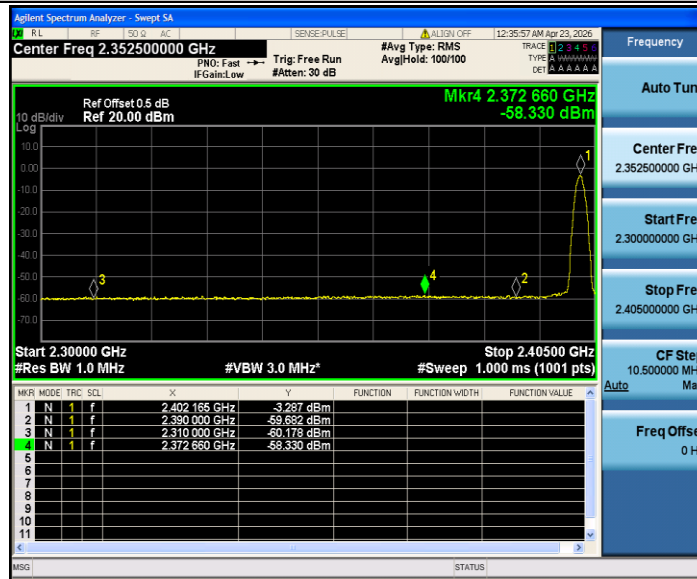
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.18	2.81	1.80	39.63	≤54	PASS
				AV	2372.660	-58.33	2.81	1.80	41.48	≤54	PASS
				AV	2390.000	-59.68	2.81	1.80	40.13	≤54	PASS
				Peak	2310.000	-51.93	2.81	0.00	46.08	≤74	PASS
				Peak	2333.180	-48.57	2.81	0.00	49.44	≤74	PASS
				Peak	2390.000	-51.95	2.81	0.00	46.06	≤74	PASS
		High	2480	AV	2483.500	-58.4	2.81	1.76	41.37	≤54	PASS
				AV	2484.880	-56.91	2.81	1.76	42.86	≤54	PASS
				AV	2500.000	-58.75	2.81	1.76	41.02	≤54	PASS
				Peak	2483.500	-49.88	2.81	0.00	48.13	≤74	PASS
				Peak	2484.240	-44.06	2.81	0.00	53.95	≤74	PASS
				Peak	2500.000	-52.02	2.81	0.00	45.99	≤74	PASS

Note:

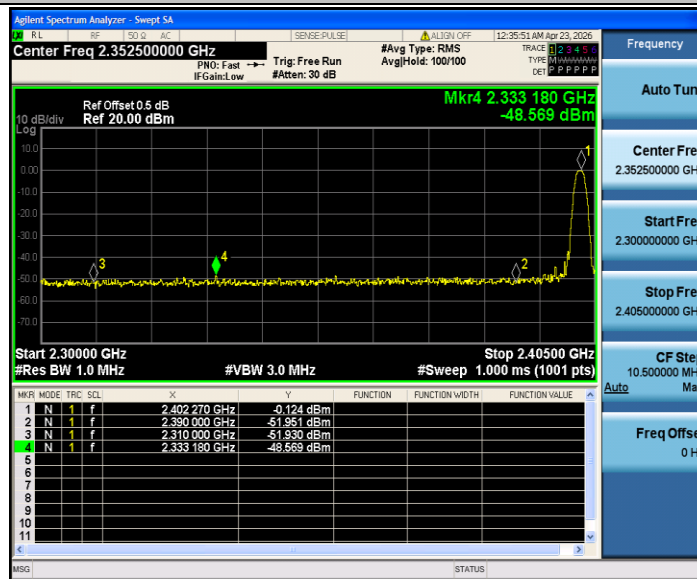
The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

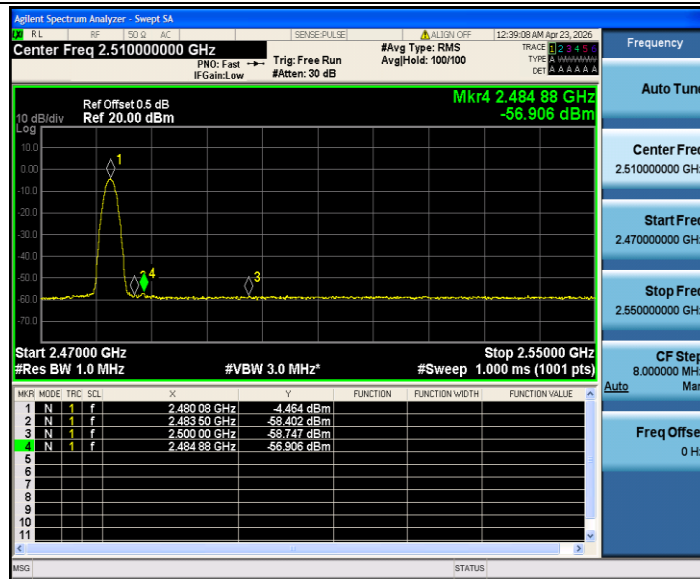
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

