



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: TABLET

Test Model: ELITE10QH

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

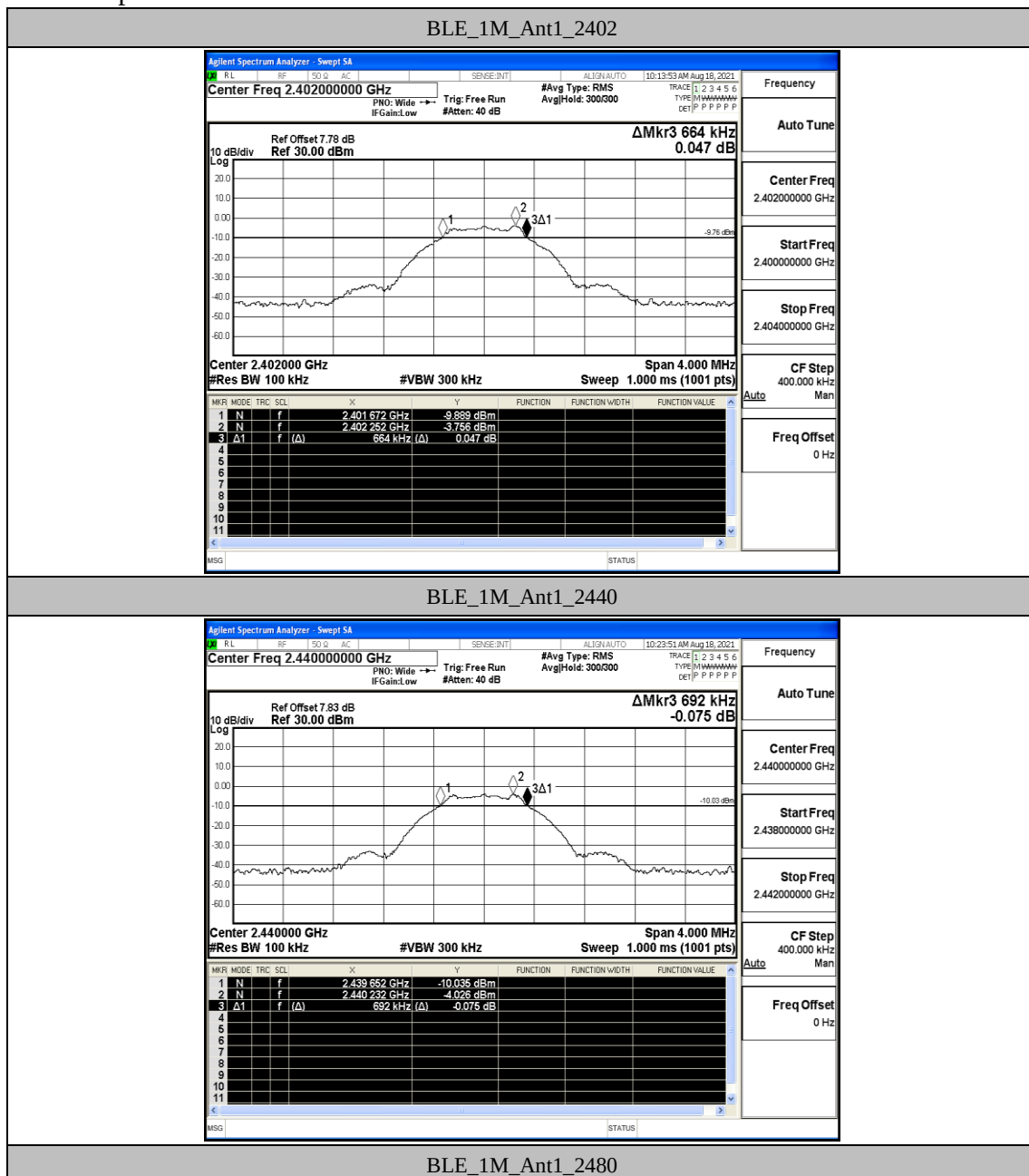


B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.672	2402.336	≥ 0.5	PASS
		2440	0.692	2439.652	2440.344	≥ 0.5	PASS
		2480	0.688	2479.652	2480.340	≥ 0.5	PASS

Test Graphs





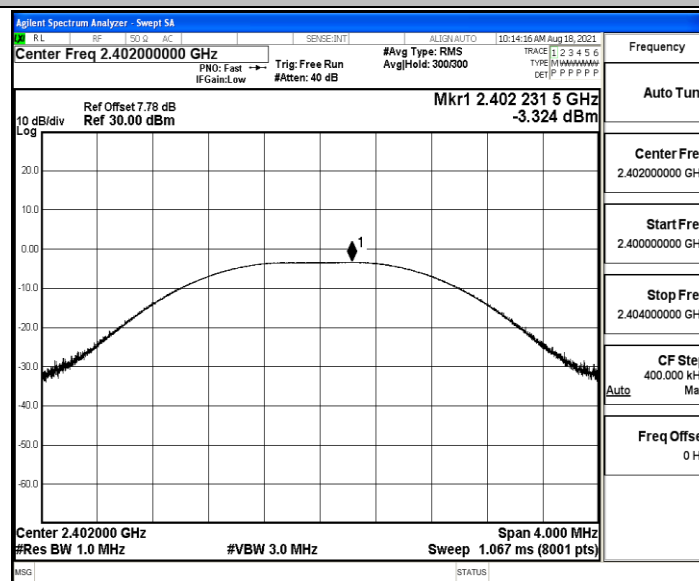
B.2 Maximum conducted output power

Test Result

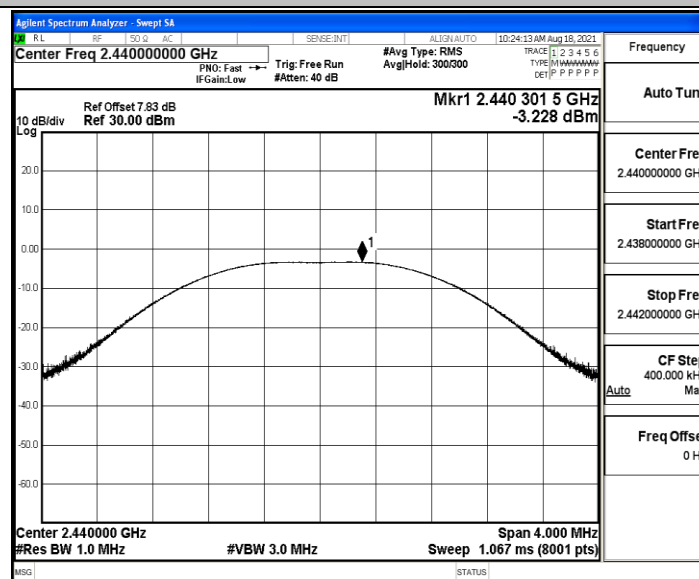
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.32	≤30	PASS
		2440	-3.23	≤30	PASS
		2480	-4.52	≤30	PASS

Test Graphs

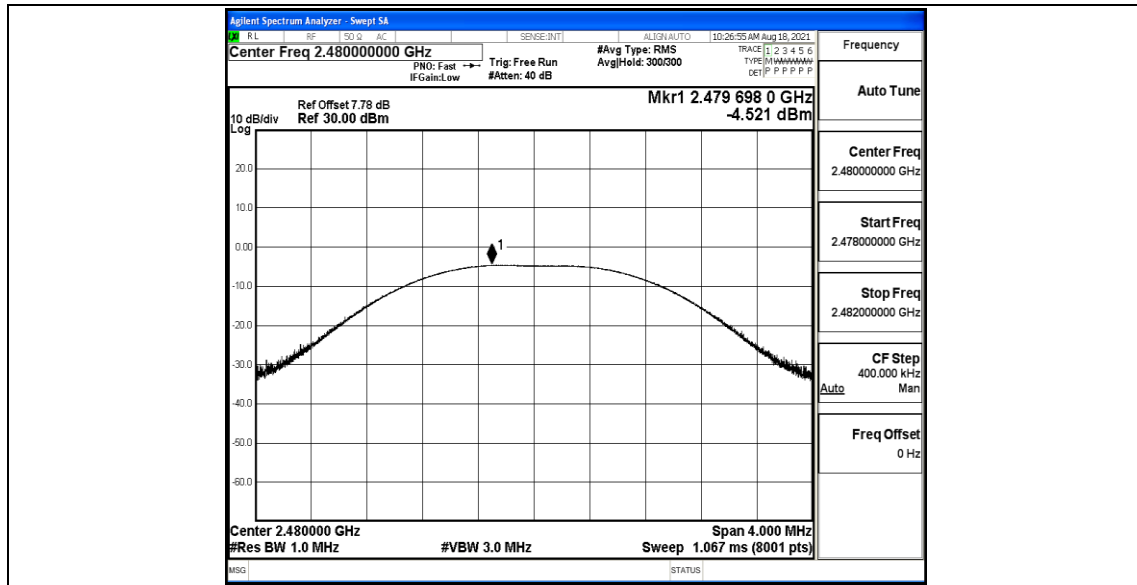
BLE_1M_Ant1_2402

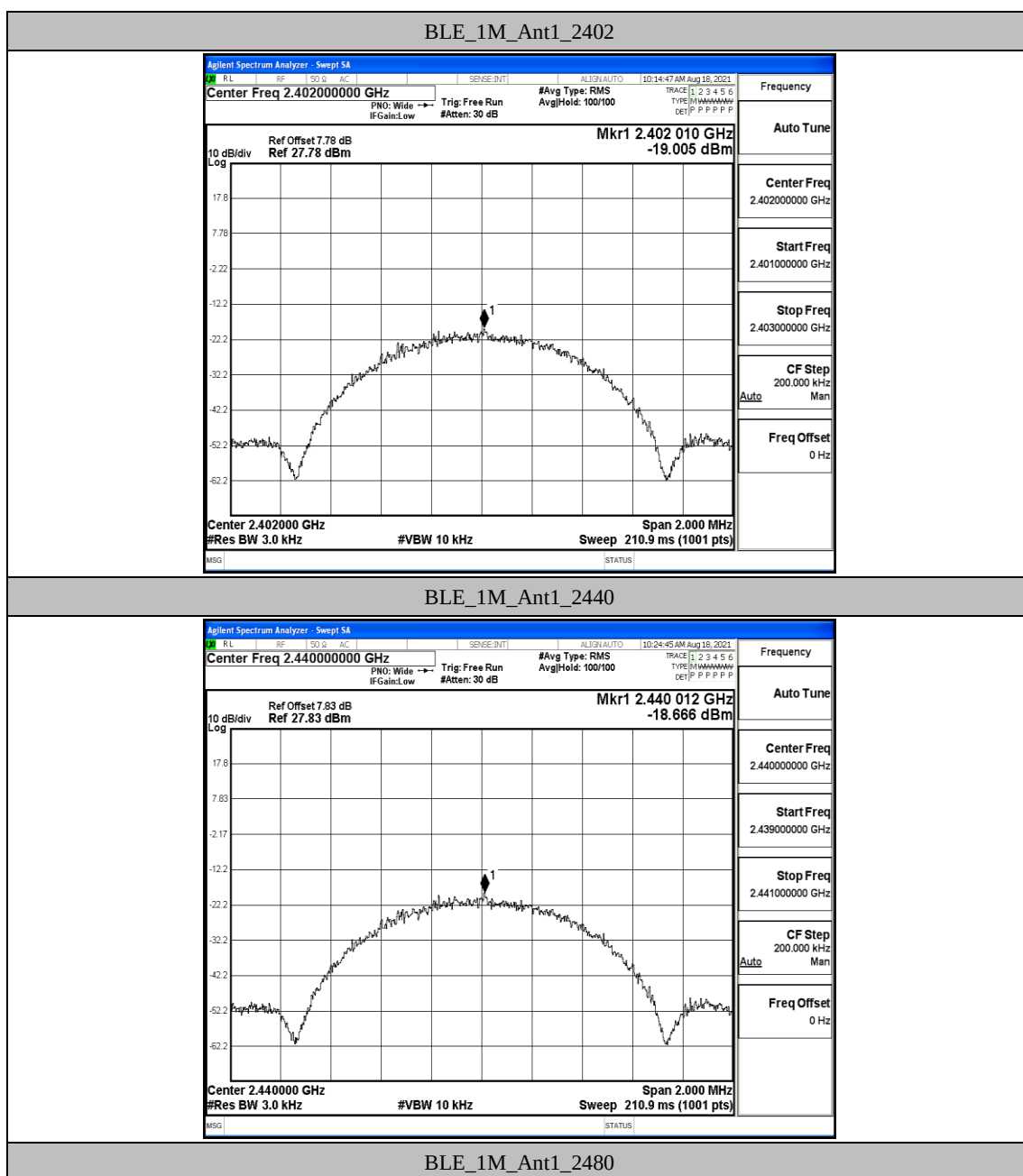
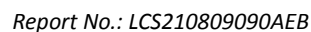


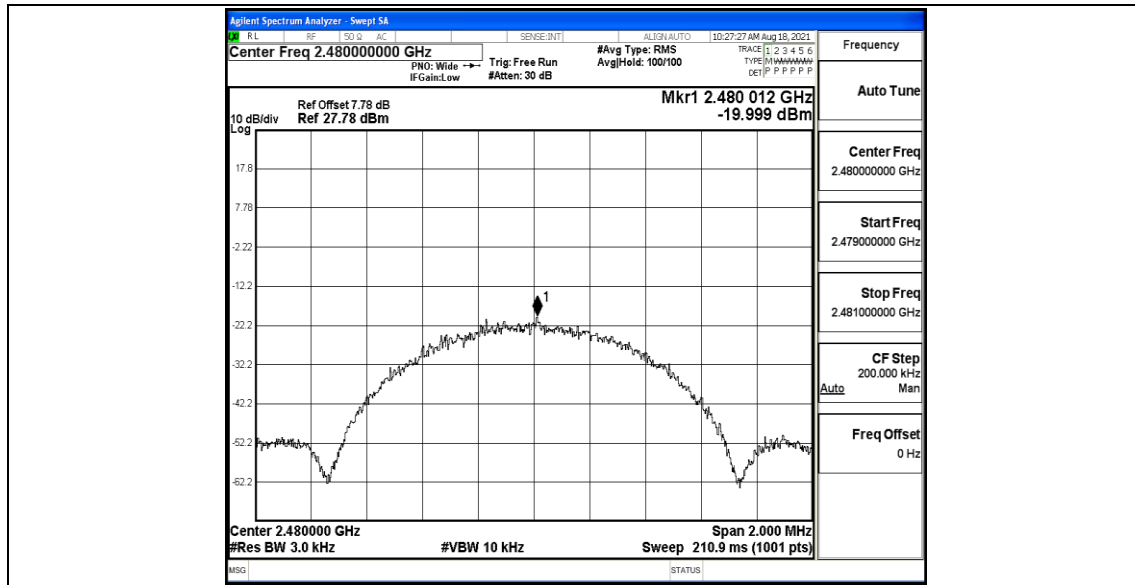
BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







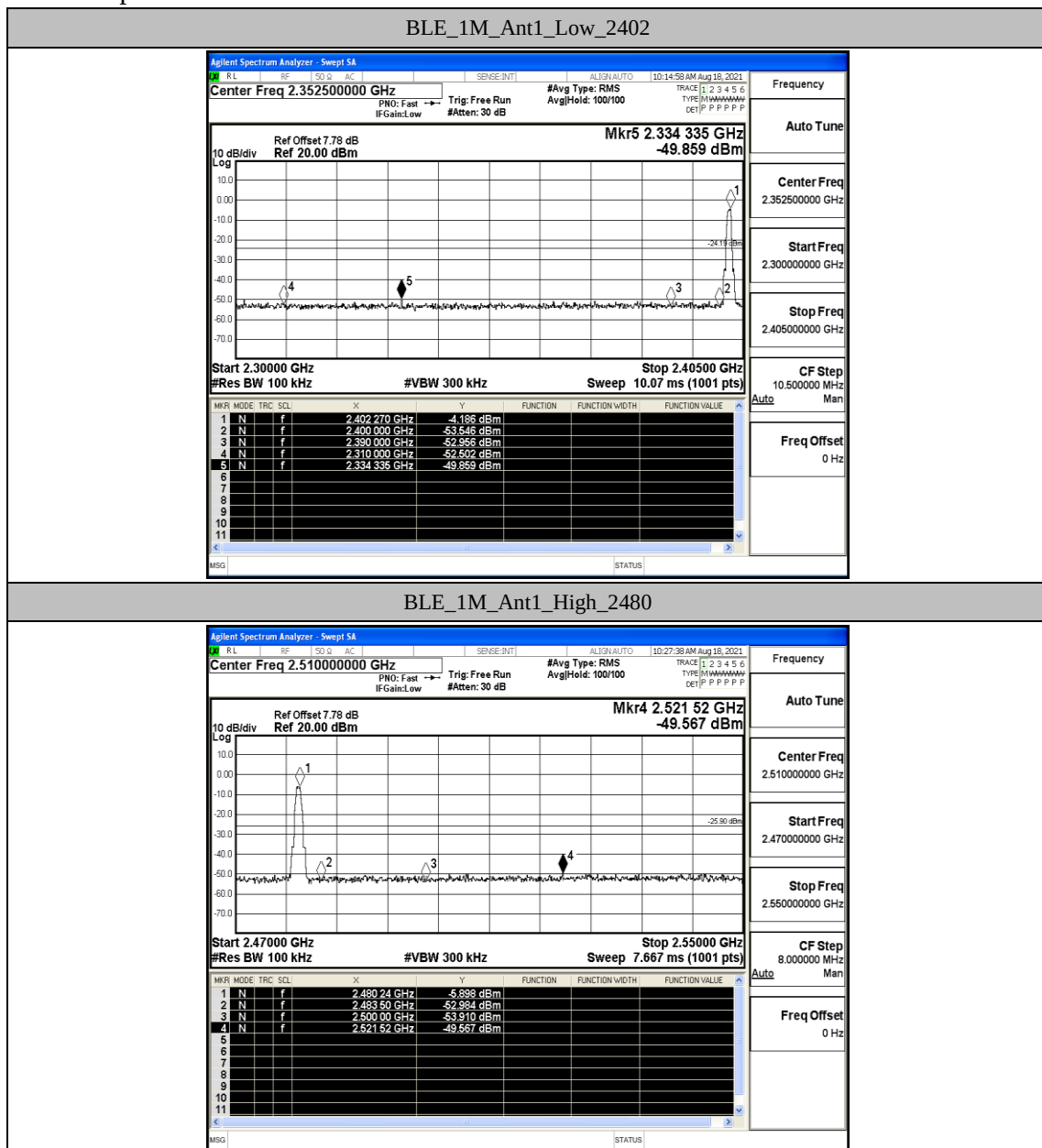


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.19	-49.86	≤-24.19	PASS
		High	2480	-5.90	-49.57	≤-25.9	PASS

Test Graphs



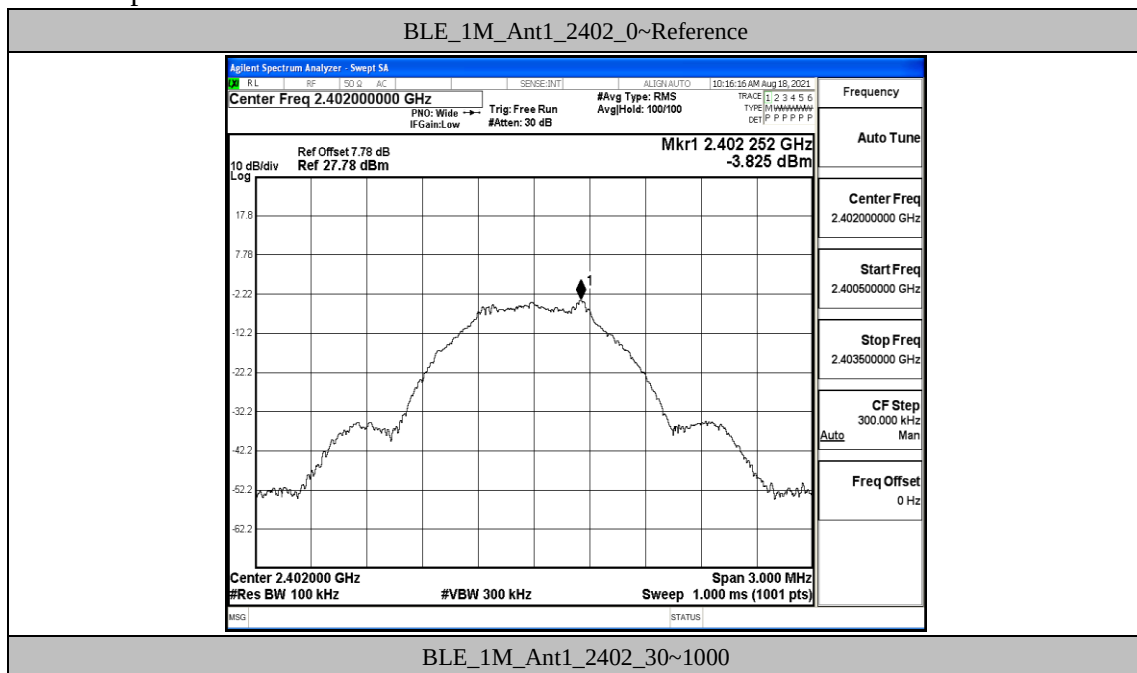


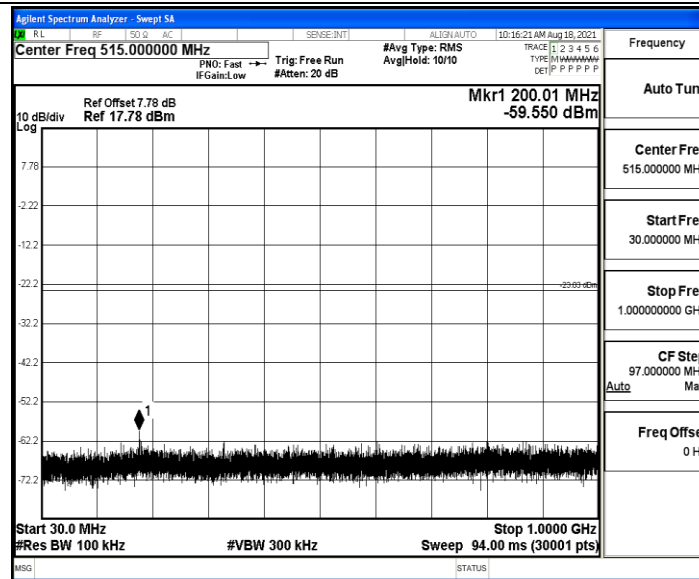
B.5 Conducted Spurious Emission

Test Result

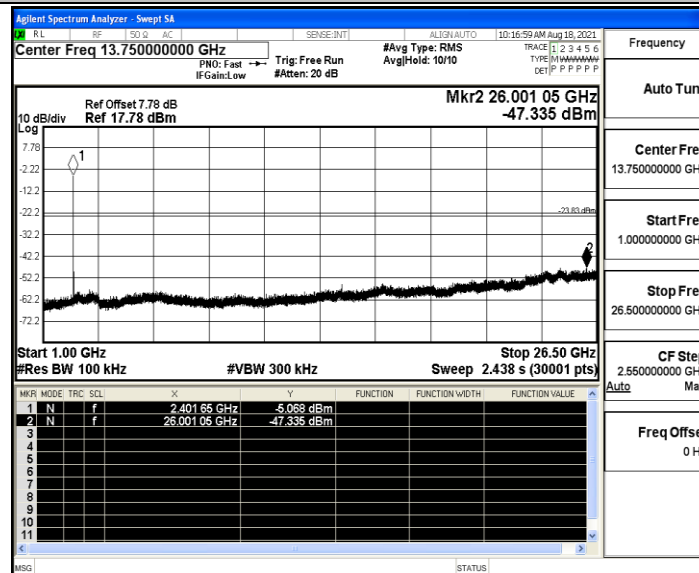
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.83	-3.83	---	PASS
			30~1000	-3.83	-59.55	≤-23.83	PASS
			1000~26500	-3.83	-47.34	≤-23.83	PASS
		2440	Reference	-4.01	-4.01	---	PASS
			30~1000	-4.01	-57.84	≤-24.01	PASS
			1000~26500	-4.01	-47.57	≤-24.01	PASS
		2480	Reference	-5.83	-5.83	---	PASS
			30~1000	-5.83	-58.84	≤-25.83	PASS
			1000~26500	-5.83	-47.13	≤-25.83	PASS

Test Graphs

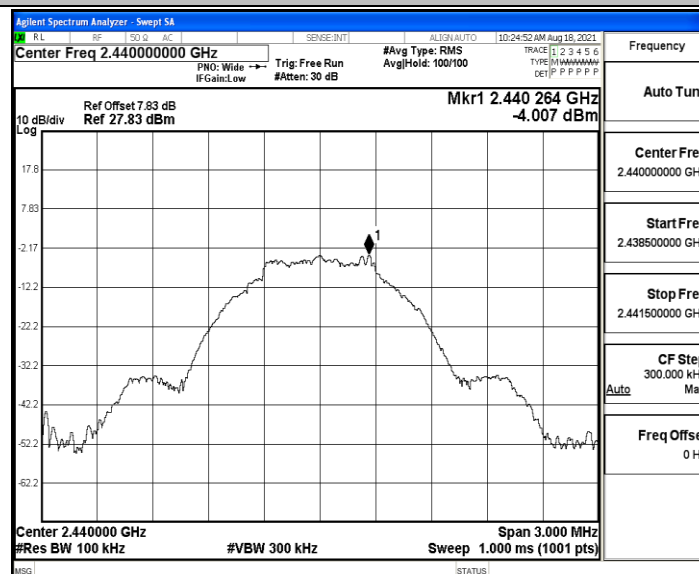




BLE_1M_Ant1_2402_1000~26500

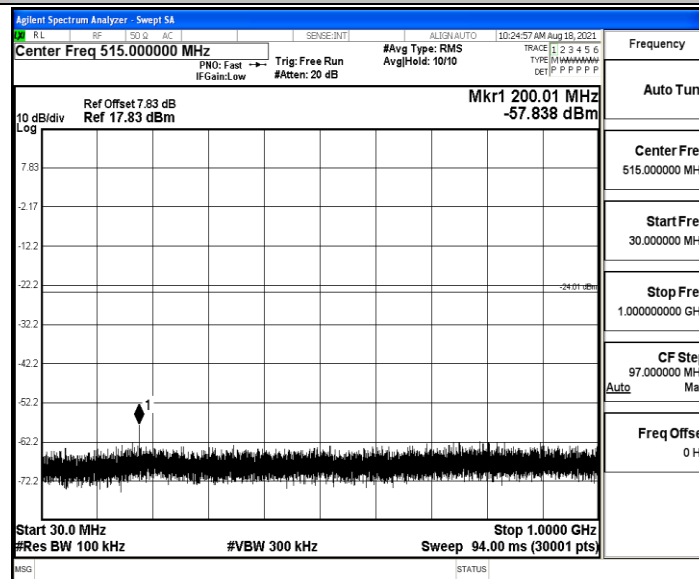


BLE_1M_Ant1_2440_0~Reference

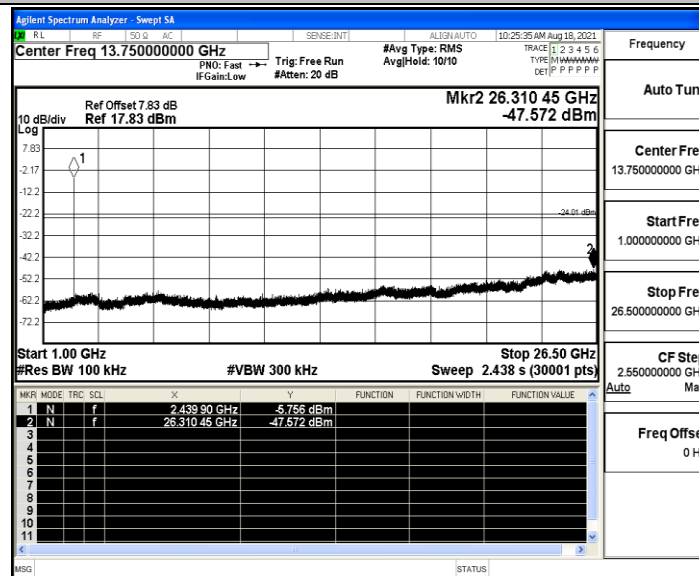




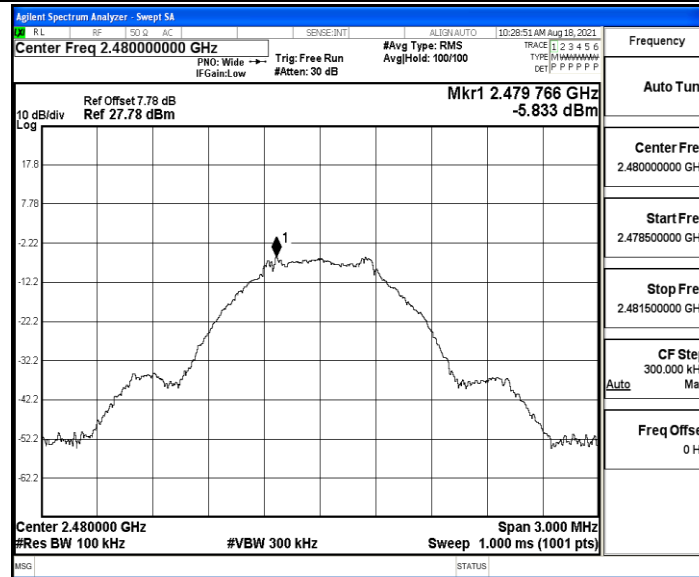
BLE_1M_Ant1_2440_30~1000



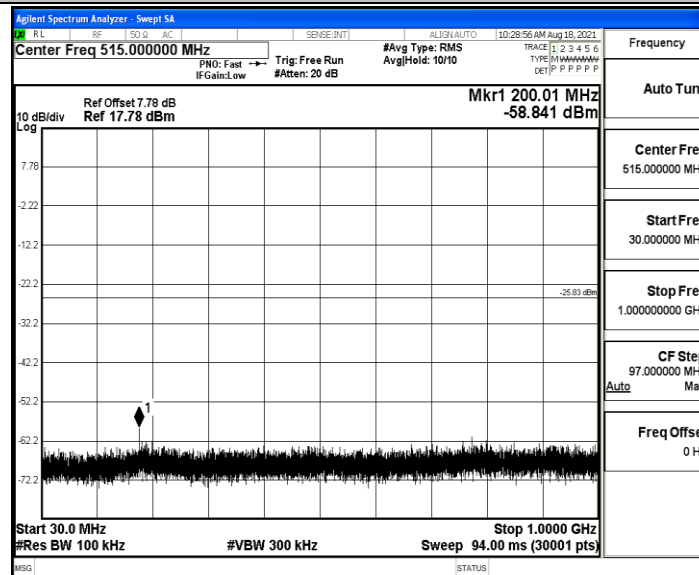
BLE_1M_Ant1_2440_1000~26500



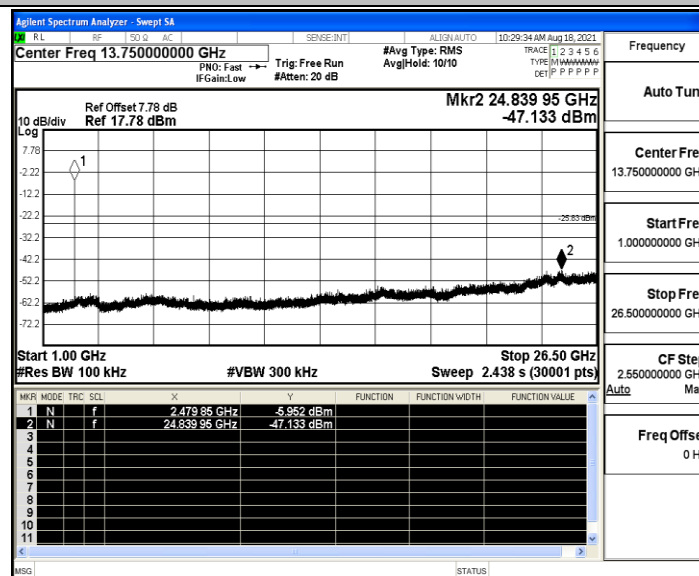
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



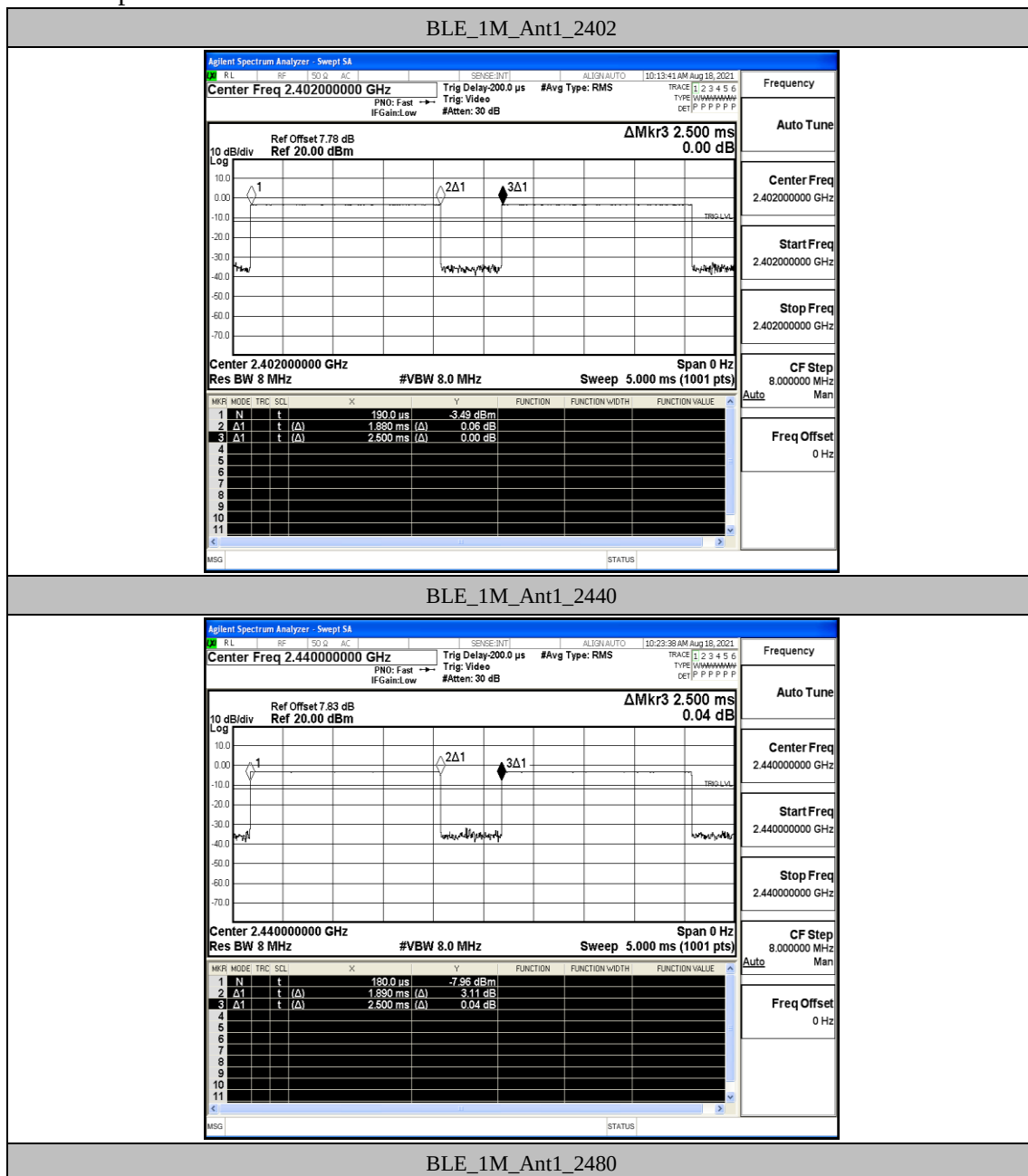


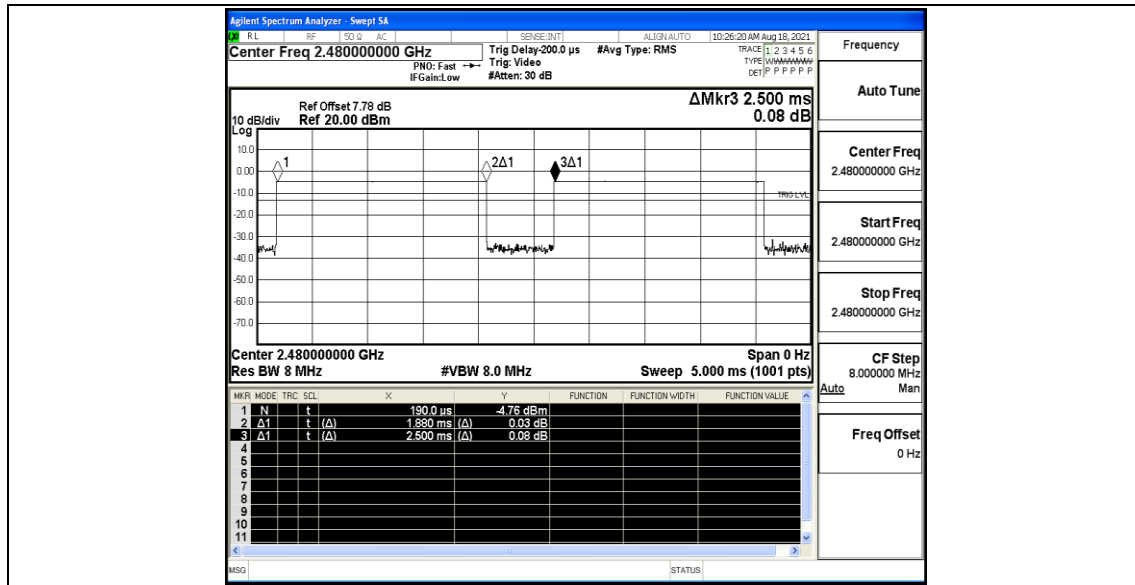
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	1.88	2.50	0.7520	75.20	1.24	---	PASS
		2440	1.89	2.50	0.7560	75.60	1.21	---	PASS
		2480	1.88	2.50	0.7520	75.20	1.24	---	PASS

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2386.310	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2390.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2310.000	-40.58	≤-21.20	54.62	≤74	PASS
				Peak	2385.680	-38.2	≤-21.20	57.00	≤74	PASS
				Peak	2390.000	-41.32	≤-21.20	53.88	≤74	PASS
		High	2480	AV	2483.500	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2494.960	-47.86	≤-41.20	47.34	≤54	PASS
				AV	2500.000	-48.04	≤-41.20	47.16	≤54	PASS
				Peak	2483.500	-42.06	≤-21.20	53.14	≤74	PASS
				Peak	2484.320	-39.02	≤-21.20	56.18	≤74	PASS
				Peak	2500.000	-41.96	≤-21.20	53.24	≤74	PASS

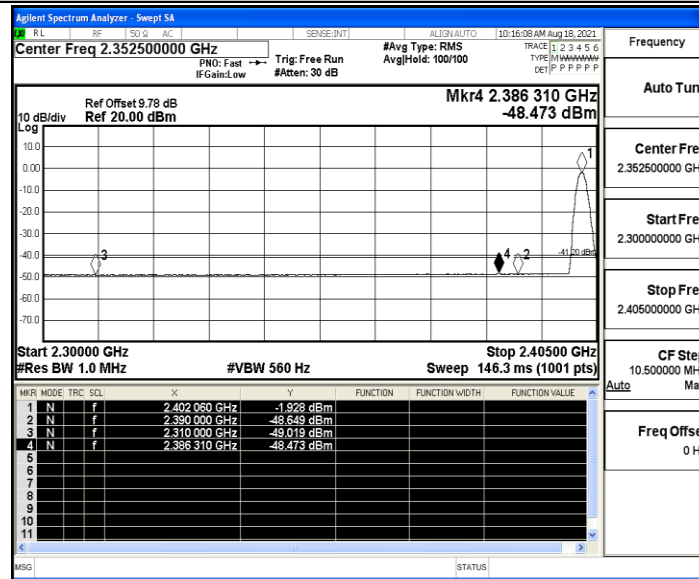
Note:

1. The Antenna Gain is compensated in the graph.
2. 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.

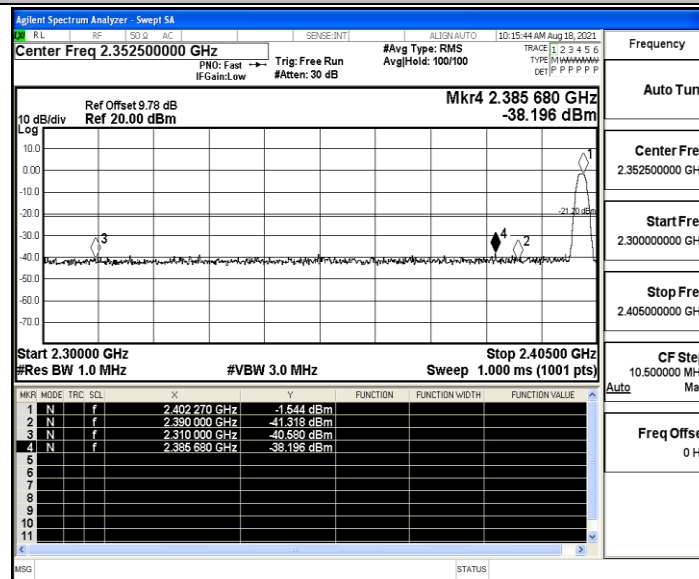


Test Graphs

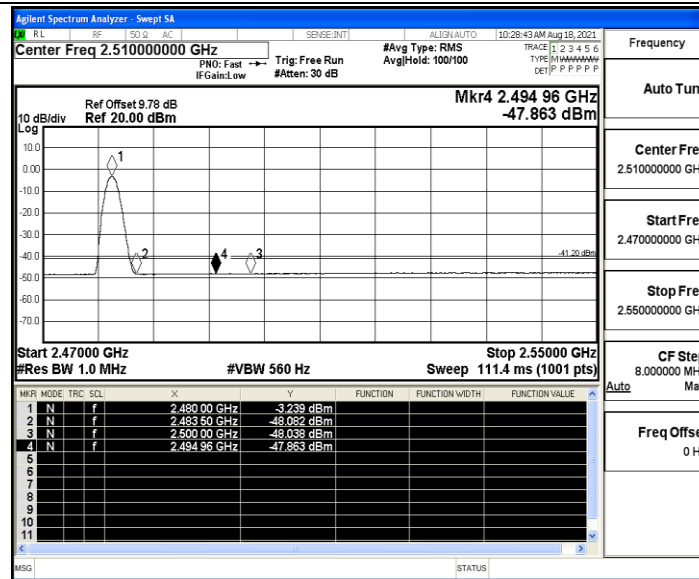
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

