



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TABLET

Test Model: TBA

Environmental Conditions

Temperature:	25° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

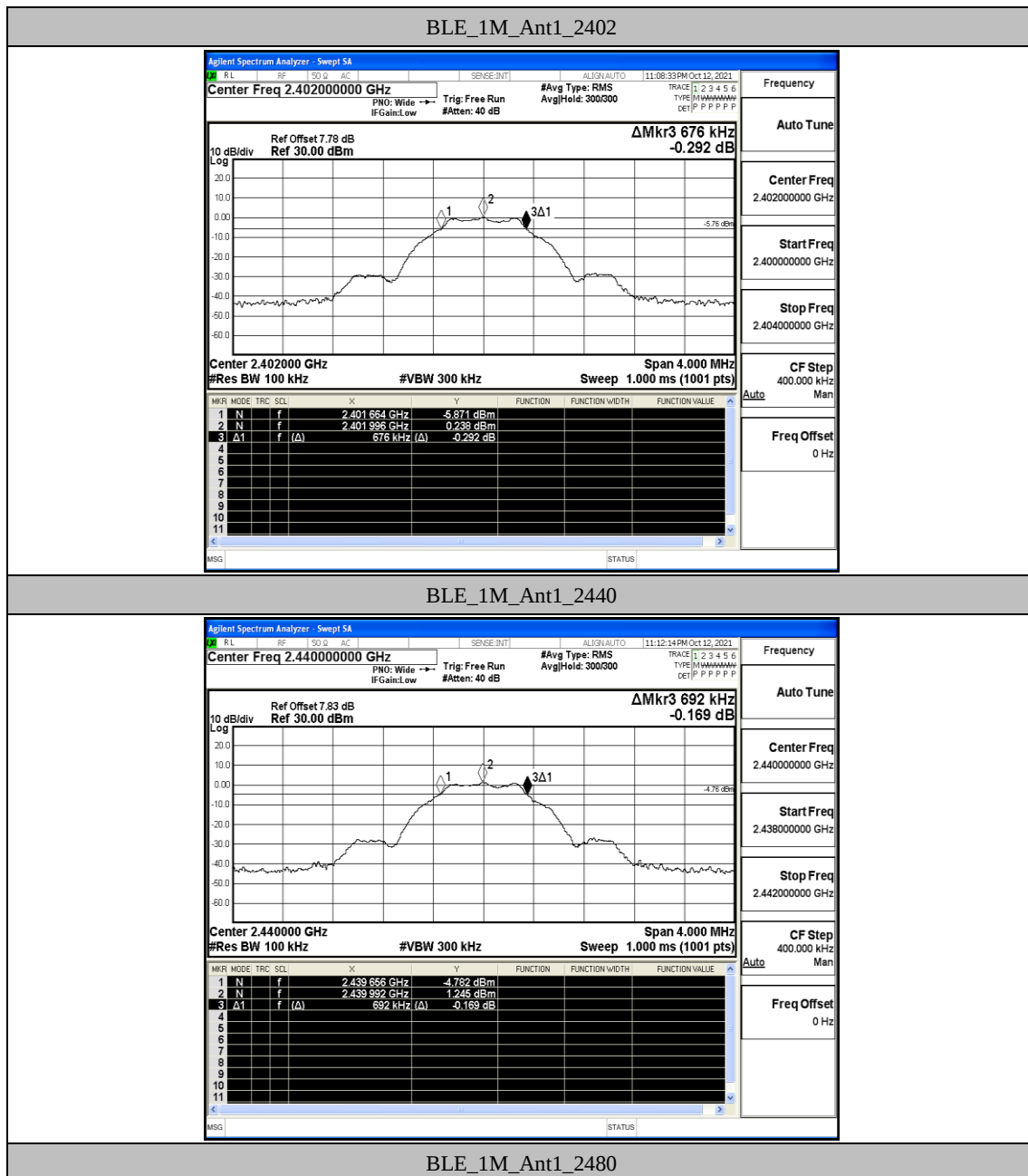


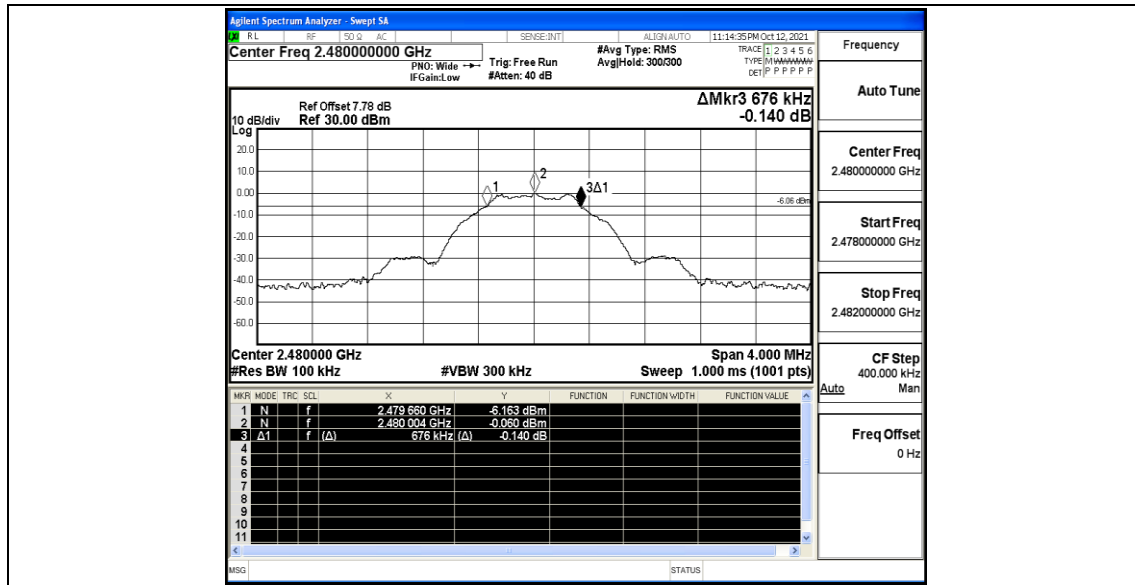
B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.664	2402.340	≥ 0.5	PASS
		2440	0.692	2439.656	2440.348	≥ 0.5	PASS
		2480	0.676	2479.660	2480.336	≥ 0.5	PASS

Test Graphs





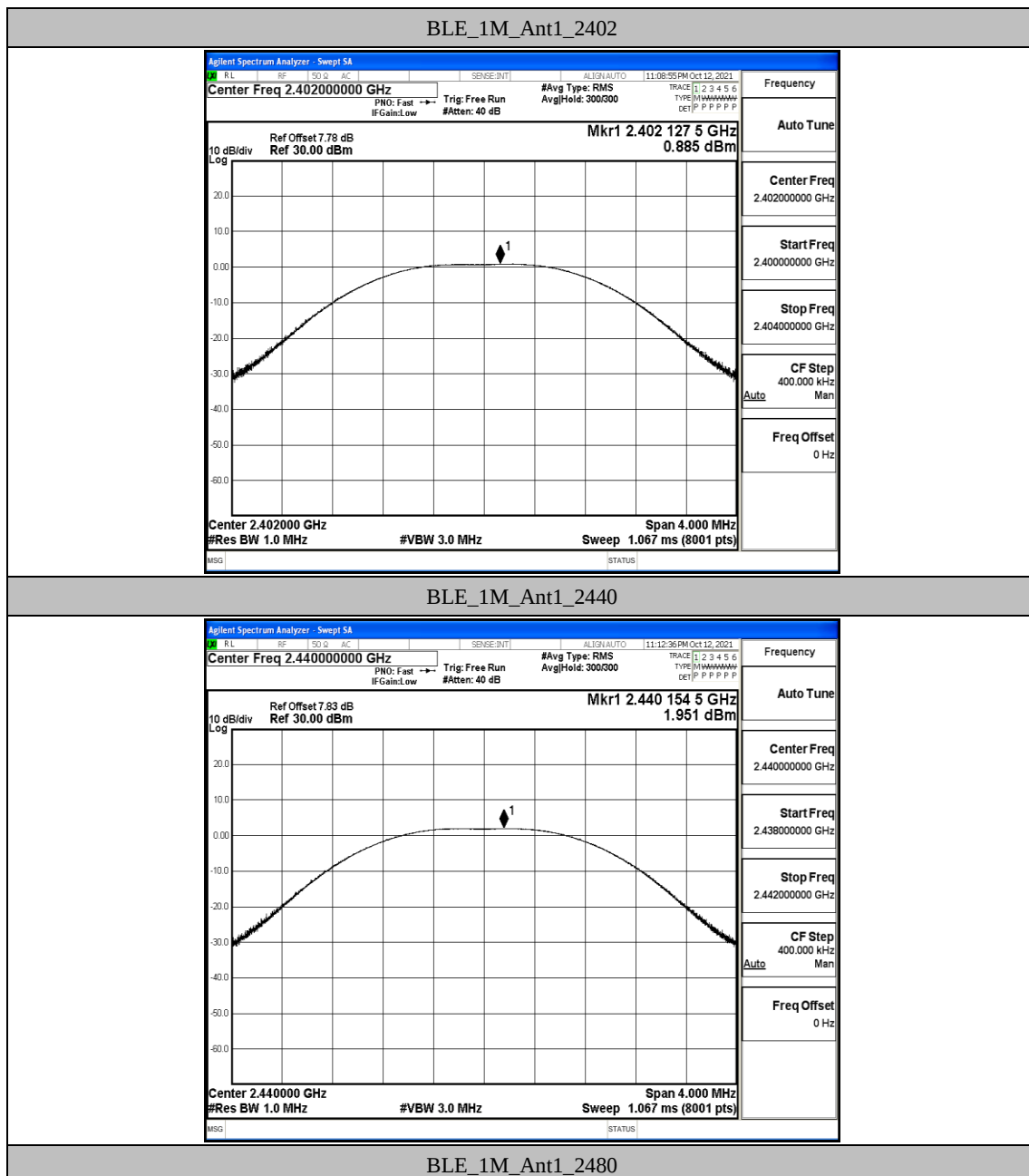


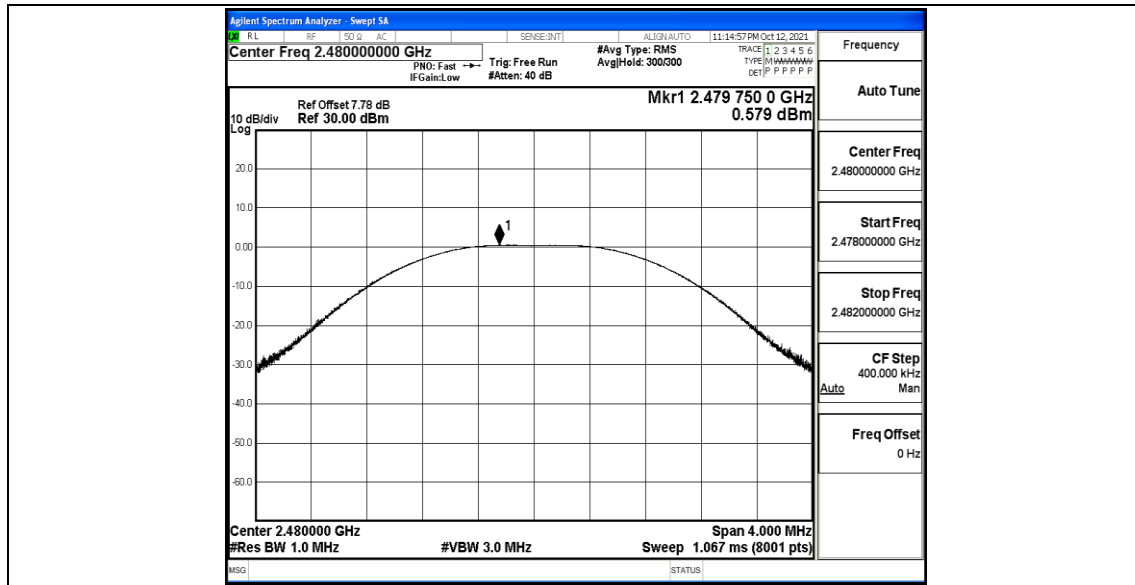
B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.89	≤30	PASS
		2440	1.95	≤30	PASS
		2480	0.58	≤30	PASS

Test Graphs





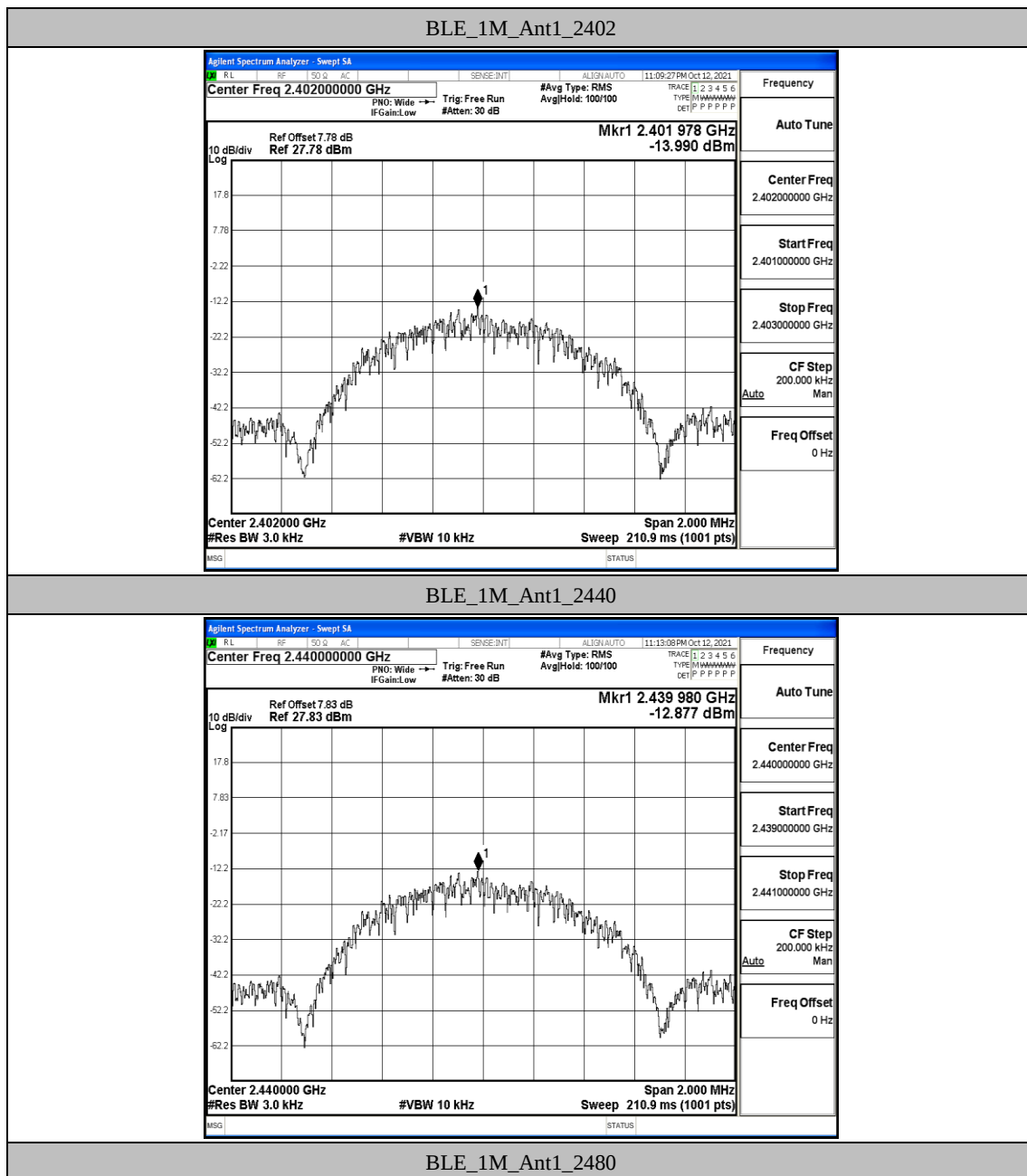


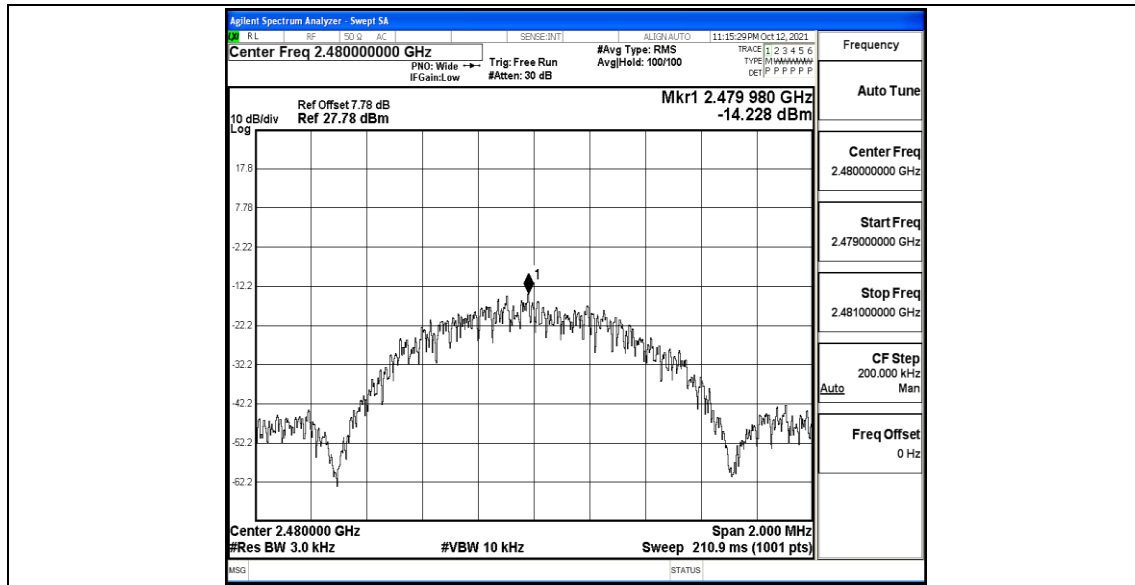
B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.99	≤8	PASS
		2440	-12.88	≤8	PASS
		2480	-14.23	≤8	PASS

Test Graphs





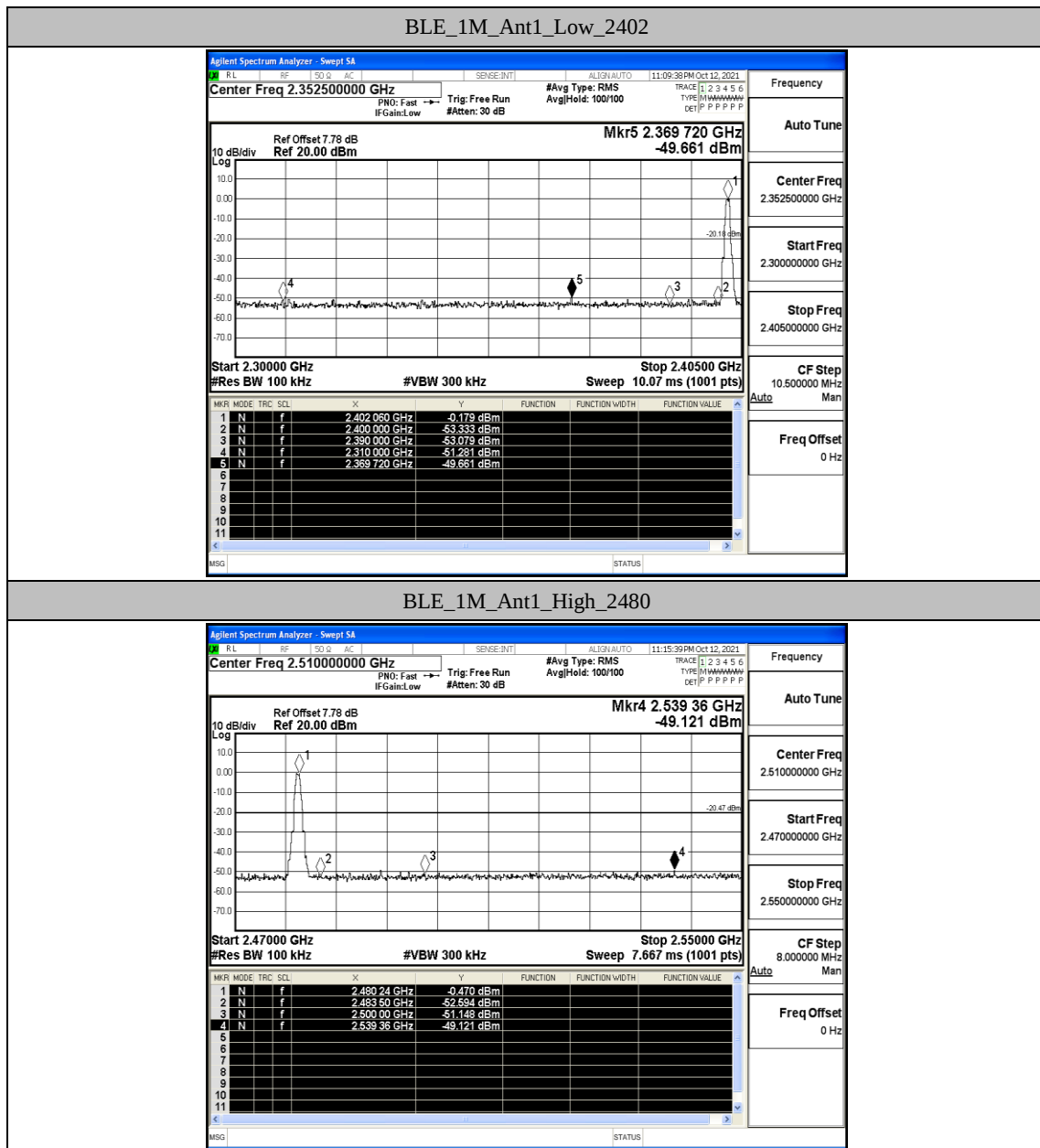


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.18	-49.66	≤ -20.18	PASS
		High	2480	-0.47	-49.12	≤ -20.47	PASS

Test Graphs



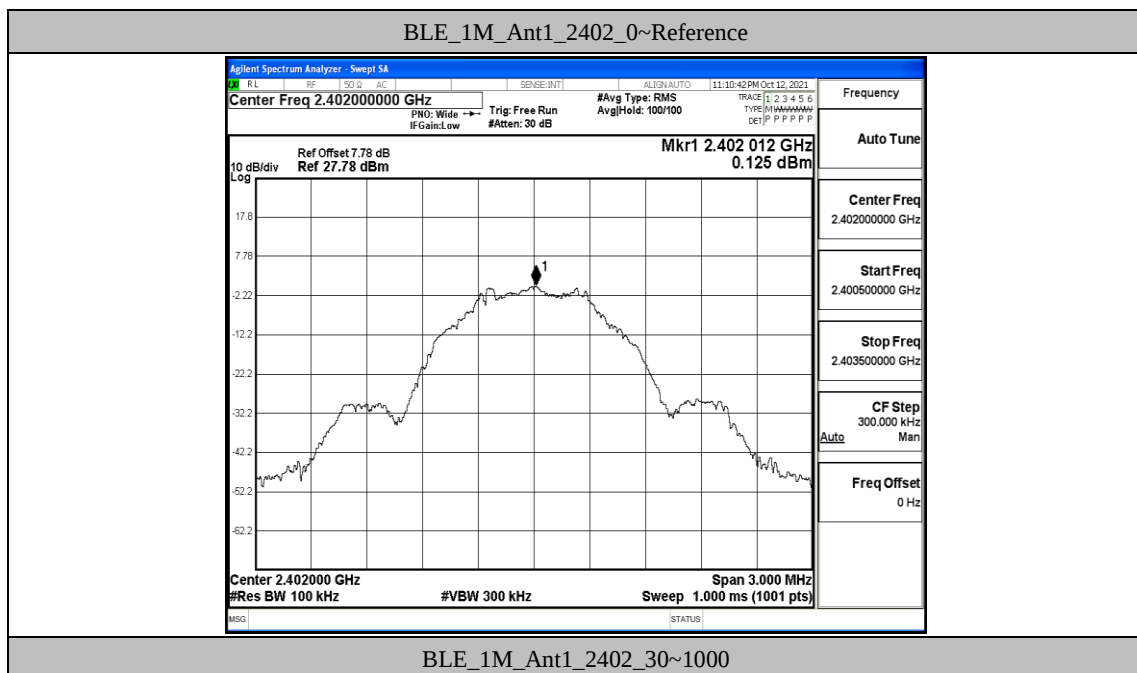


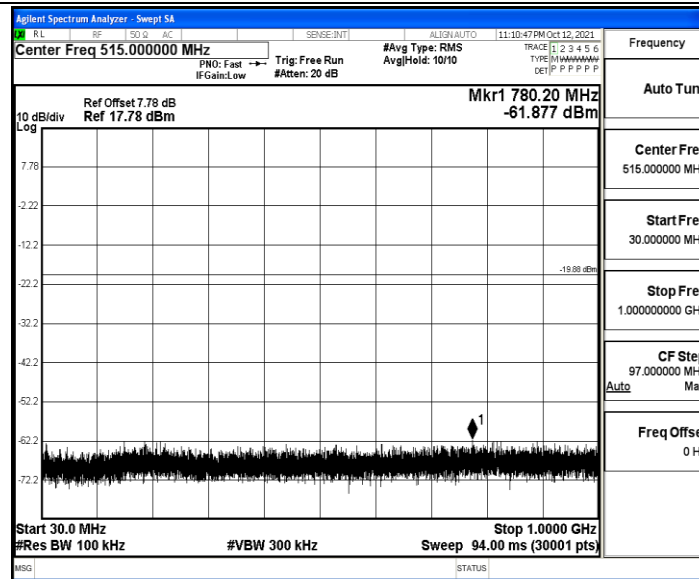
B.5 Conducted Spurious Emission

Test Result

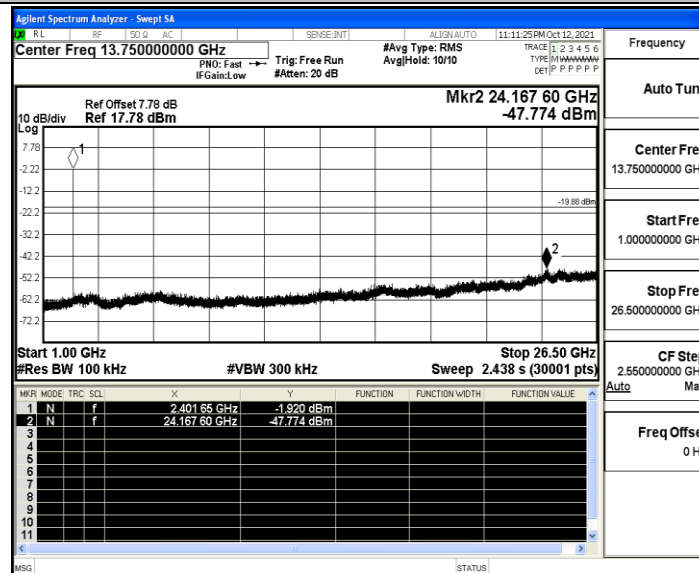
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-61.88	≤-19.88	PASS
			1000~26500	0.13	-47.77	≤-19.88	PASS
		2440	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-62.01	≤-18.74	PASS
			1000~26500	1.26	-47.12	≤-18.74	PASS
		2480	Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-62.03	≤-20.06	PASS
			1000~26500	-0.06	-47.35	≤-20.06	PASS

Test Graphs

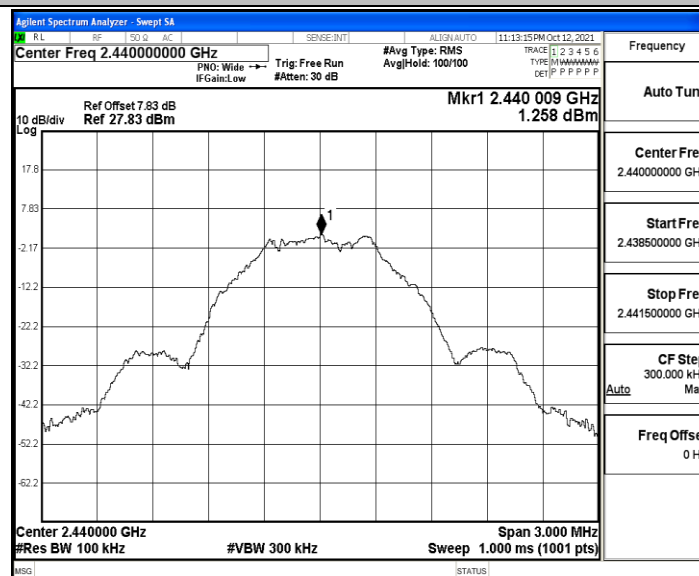




BLE_1M_Ant1_2402_1000~26500

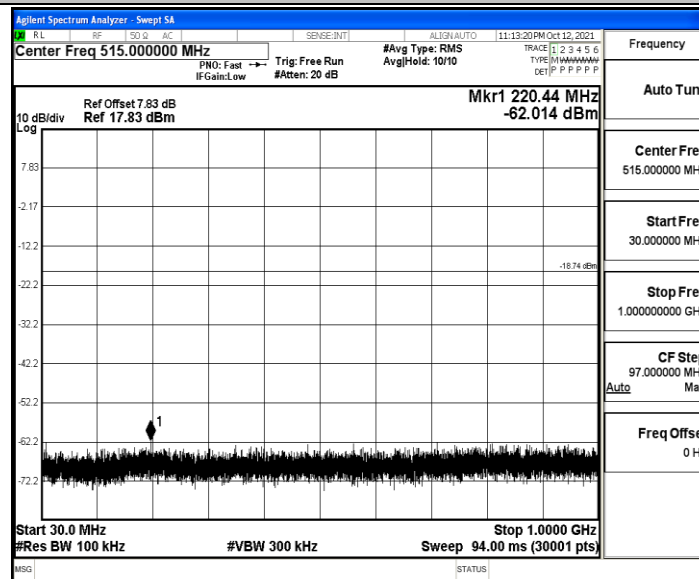


BLE_1M_Ant1_2440_0~Reference

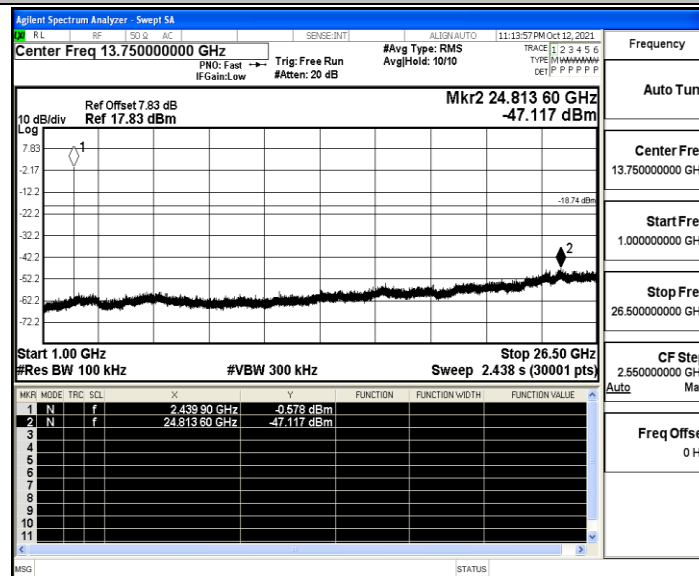




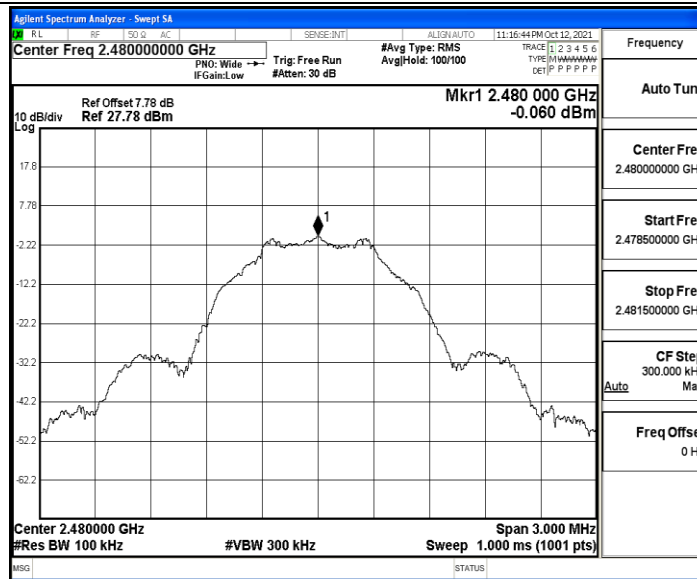
BLE_1M_Ant1_2440_30~1000



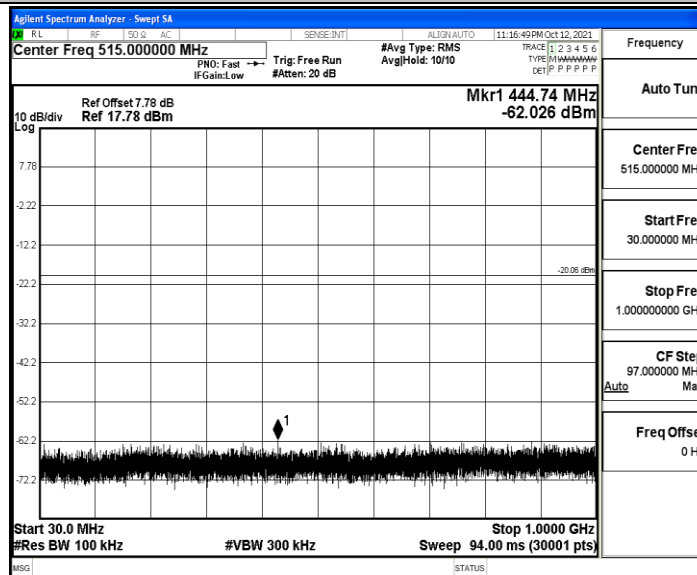
BLE_1M_Ant1_2440_1000~26500



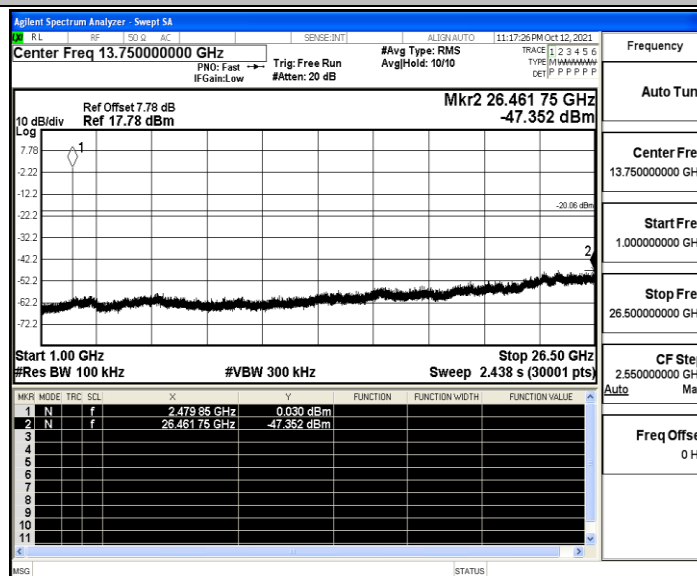
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



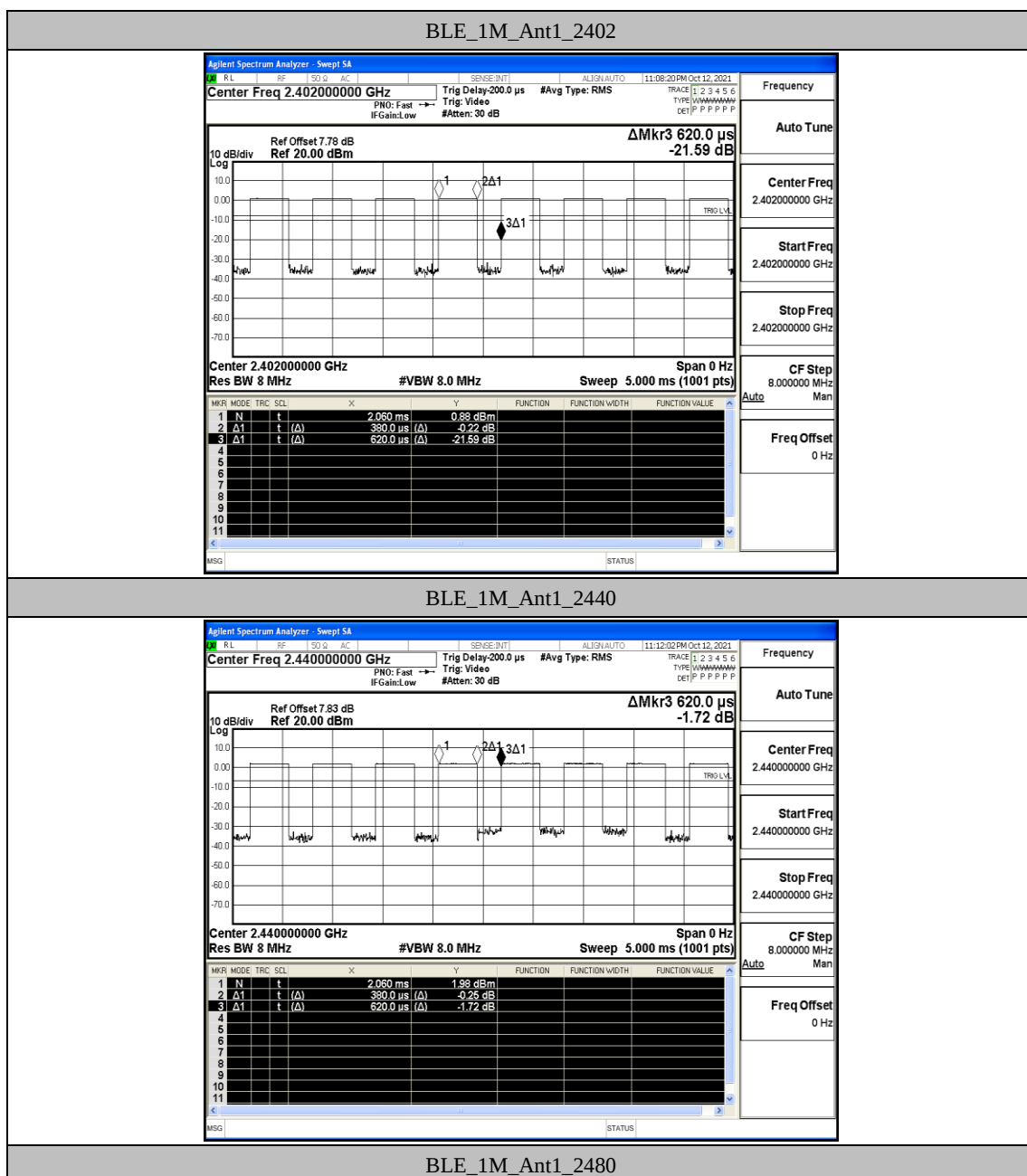


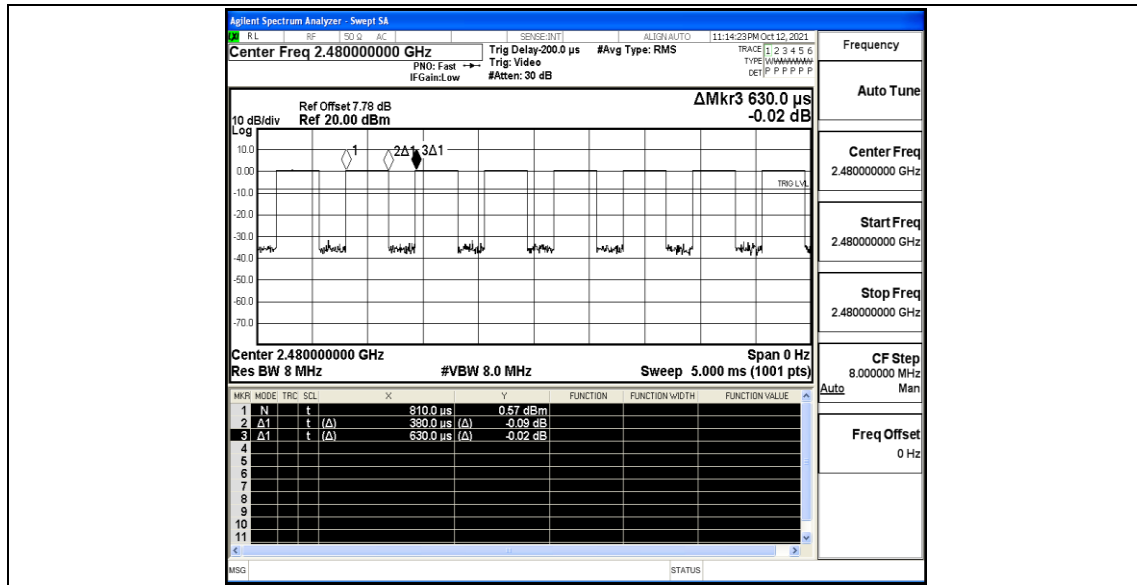
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2440	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	---	PASS

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

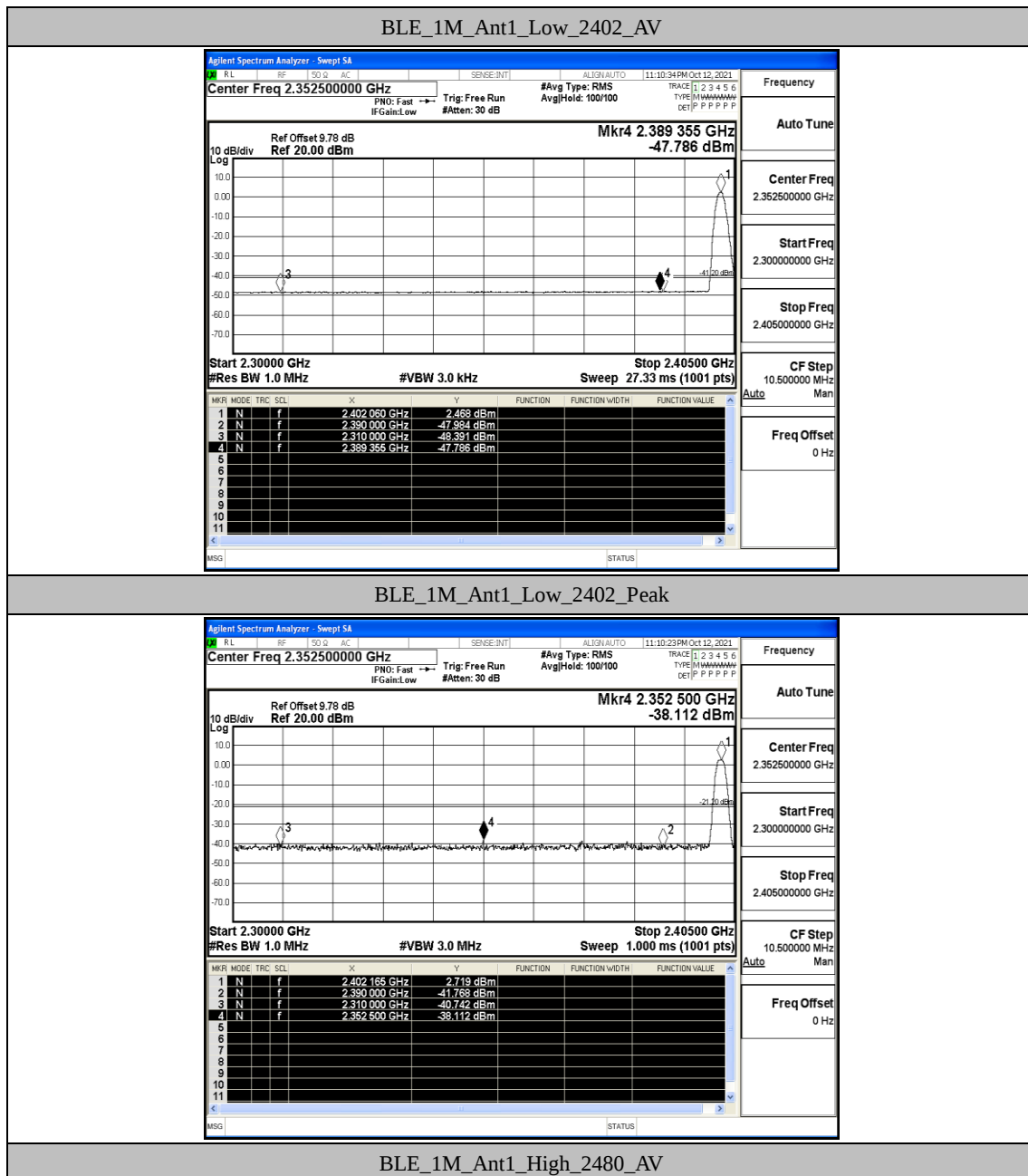
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2389.355	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2390.000	-47.98	≤-41.20	47.22	≤54	PASS
				Peak	2310.000	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	2352.500	-38.11	≤-21.20	57.09	≤74	PASS
				Peak	2390.000	-41.77	≤-21.20	53.43	≤74	PASS
		High	2480	AV	2483.500	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2489.040	-47.31	≤-41.20	47.89	≤54	PASS
				AV	2500.000	-47.43	≤-41.20	47.77	≤54	PASS
				Peak	2483.500	-42.29	≤-21.20	52.91	≤74	PASS
				Peak	2493.680	-38.16	≤-21.20	57.04	≤74	PASS
				Peak	2500.000	-41.8	≤-21.20	53.40	≤74	PASS

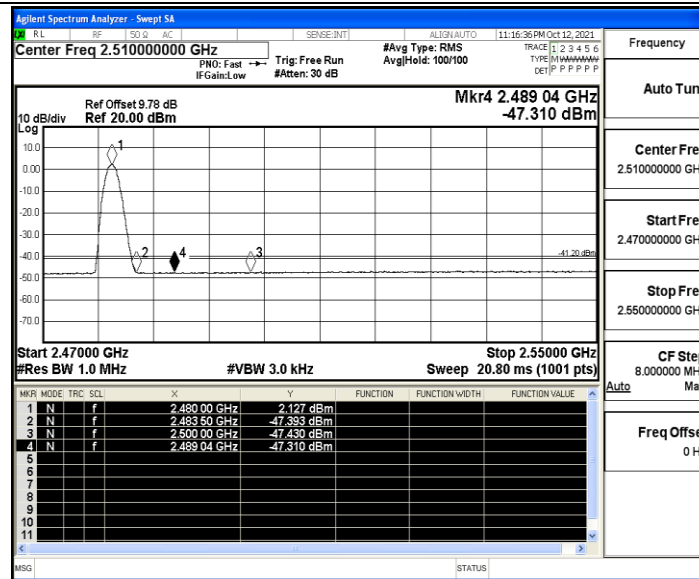
Note:

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_High_2480_Peak

