



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: HYBOOK_PLUS

Test Model: 14CB7S01

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

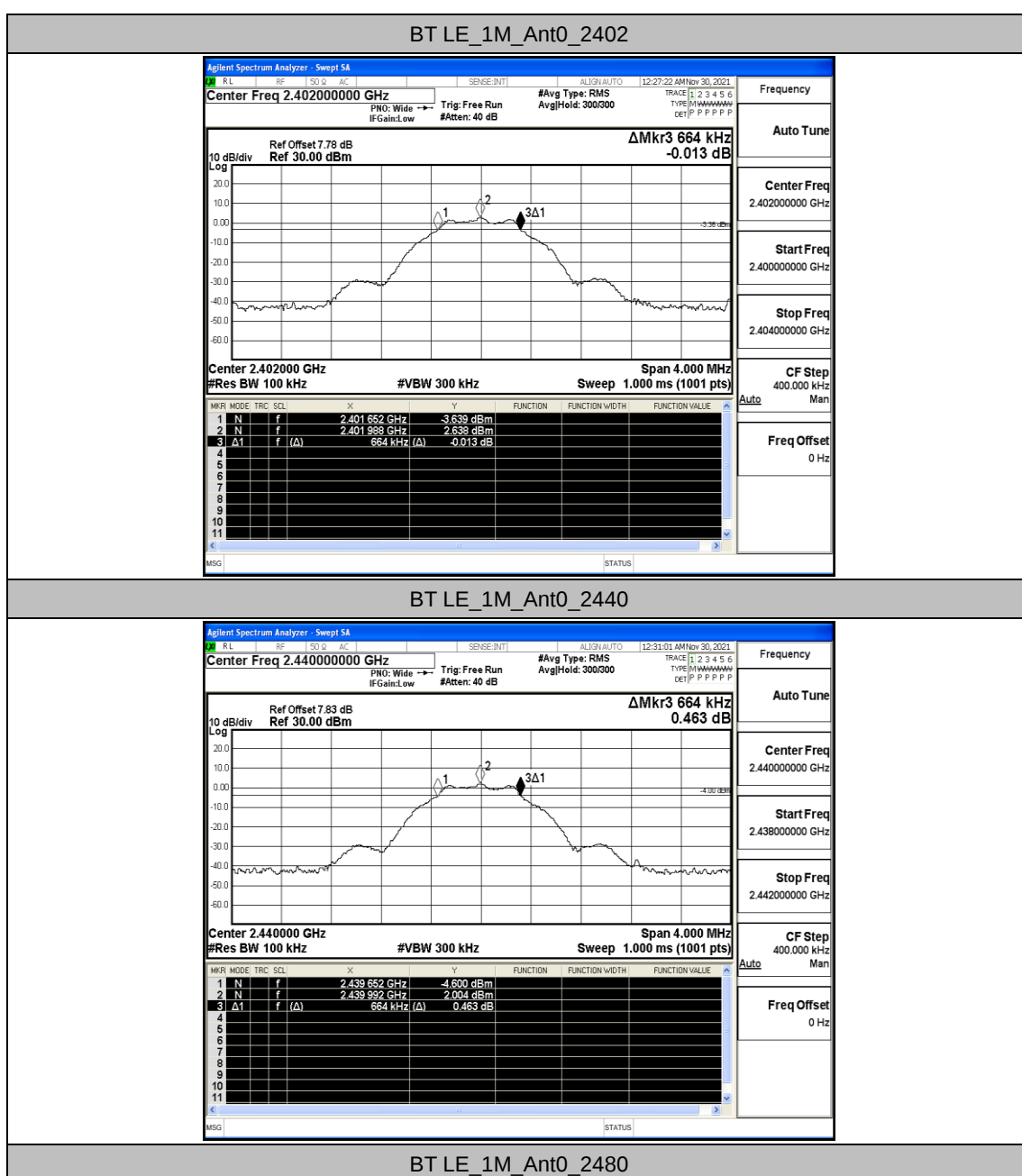


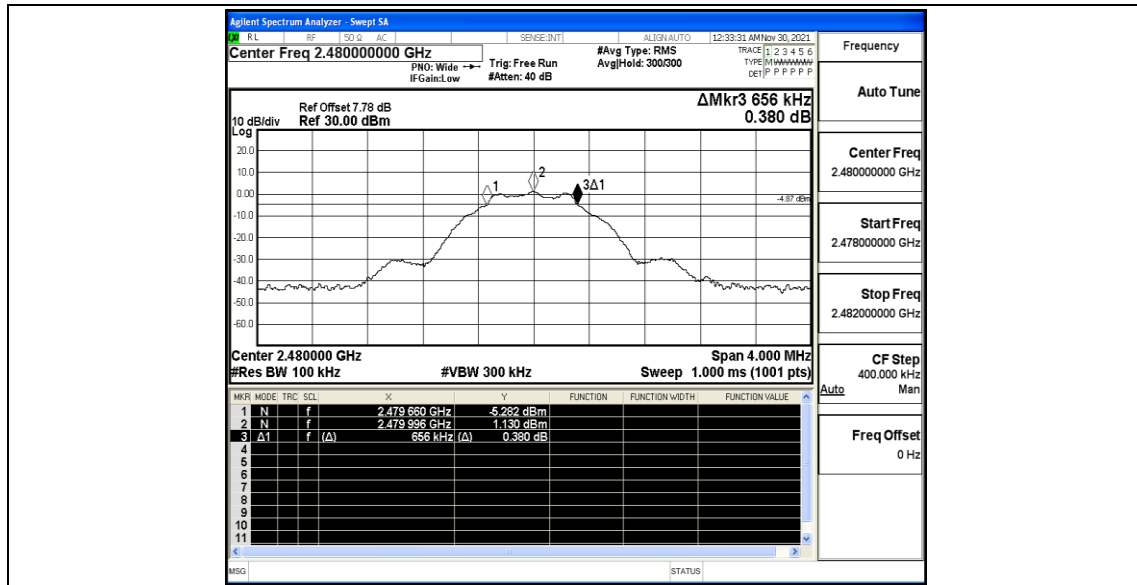
B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BT LE_1M	Ant0	2402	0.664	2401.652	2402.316	≥0.5	PASS
		2440	0.664	2439.652	2440.316	≥0.5	PASS
		2480	0.656	2479.660	2480.316	≥0.5	PASS

Test Graphs





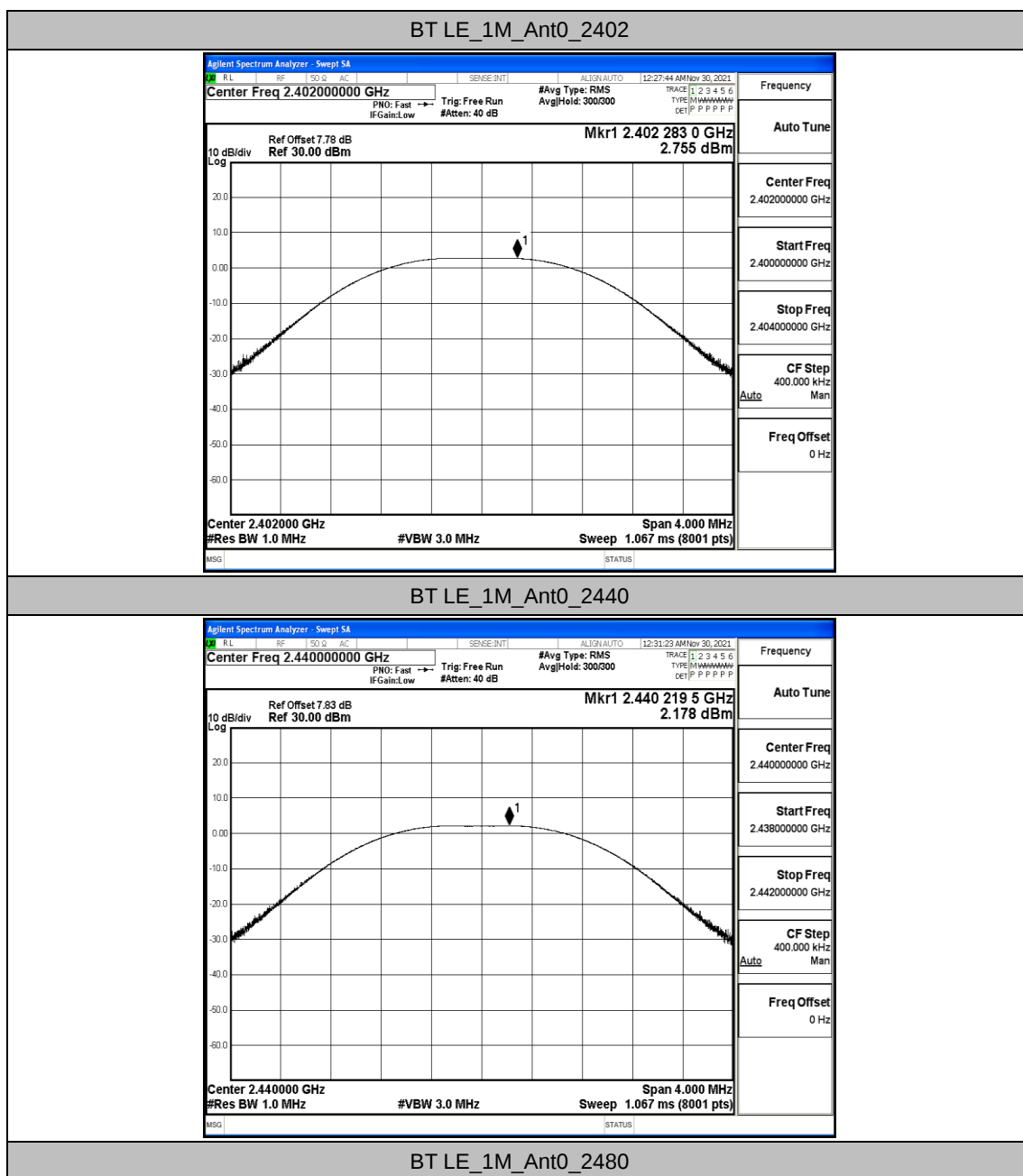


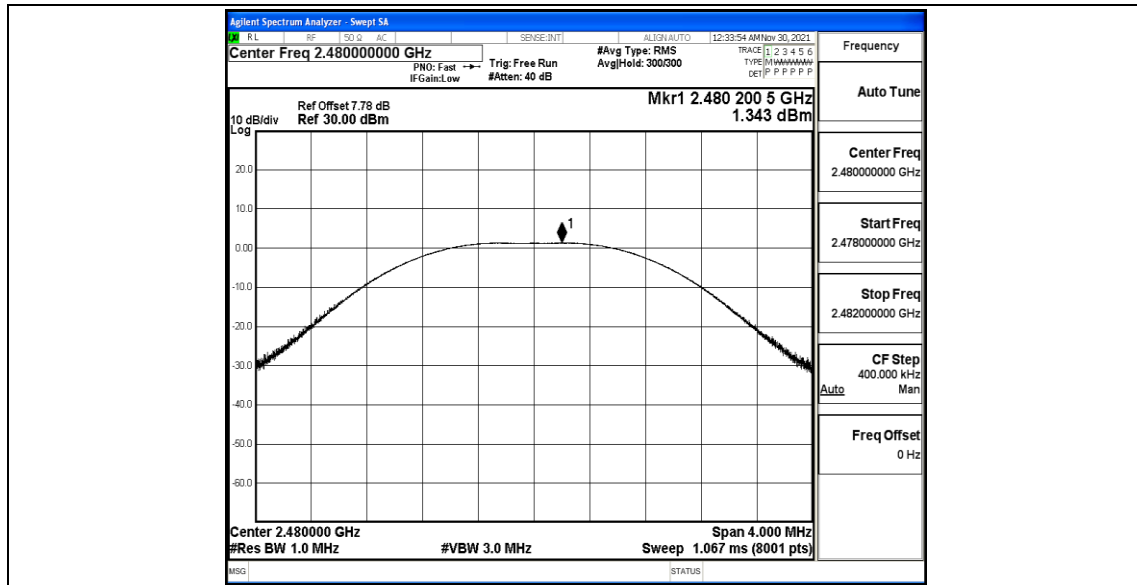
B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BT LE_1M	Ant0	2402	2.76	≤30	PASS
		2440	2.18	≤30	PASS
		2480	1.34	≤30	PASS

Test Graphs





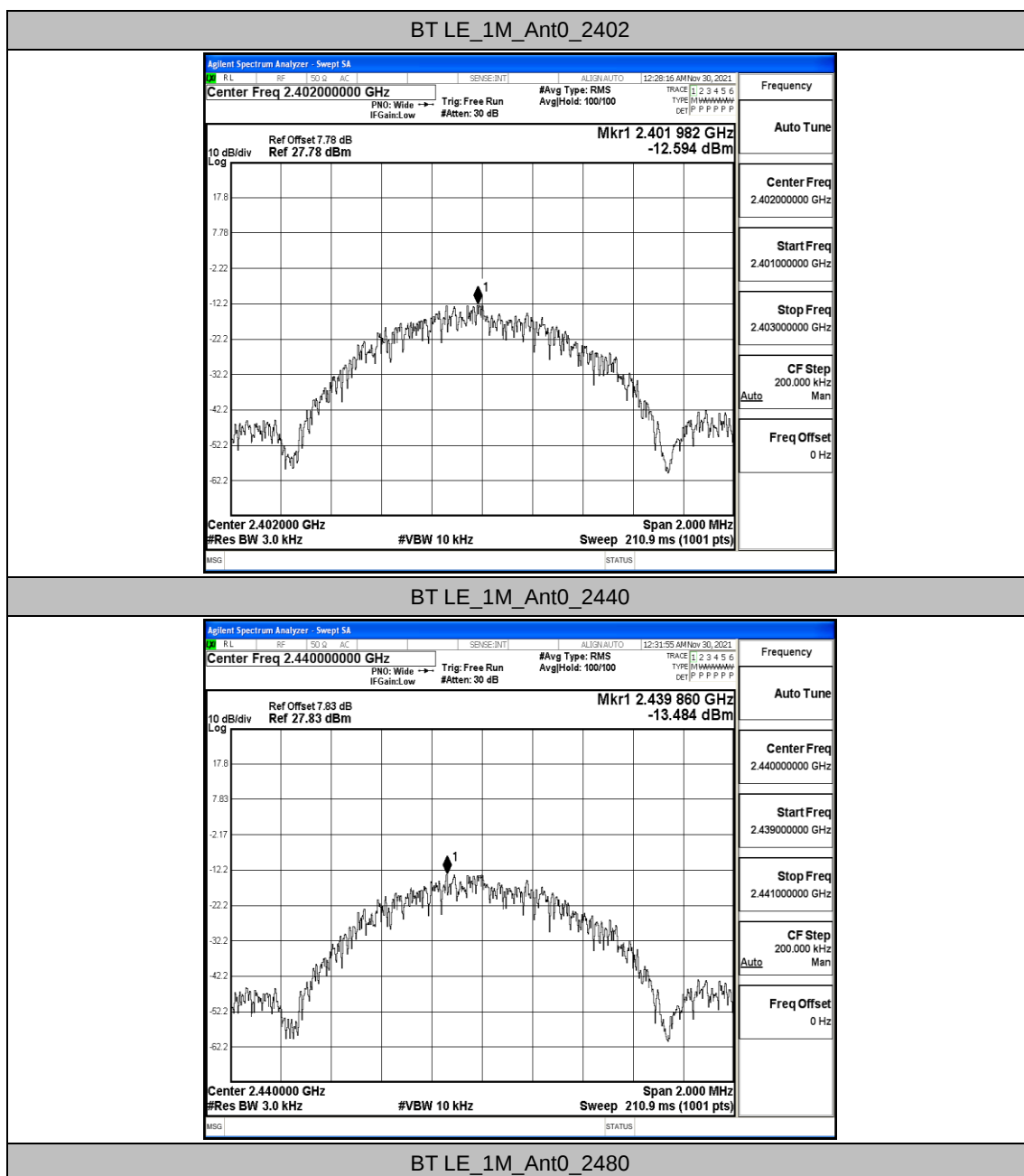


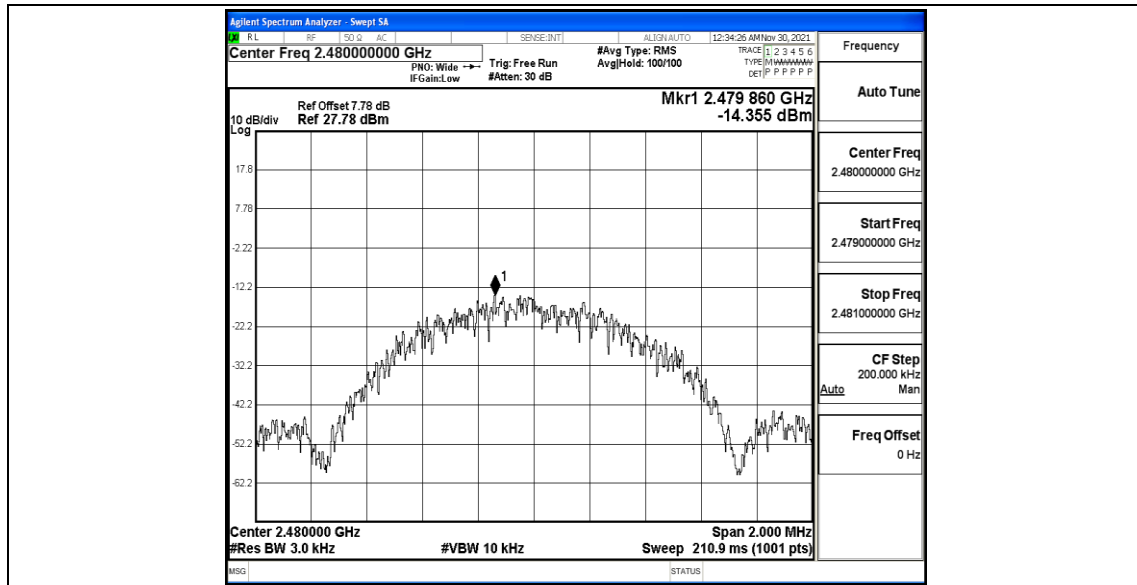
B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BT LE_1M	Ant0	2402	-12.59	≤8	PASS
		2440	-13.48	≤8	PASS
		2480	-14.36	≤8	PASS

Test Graphs





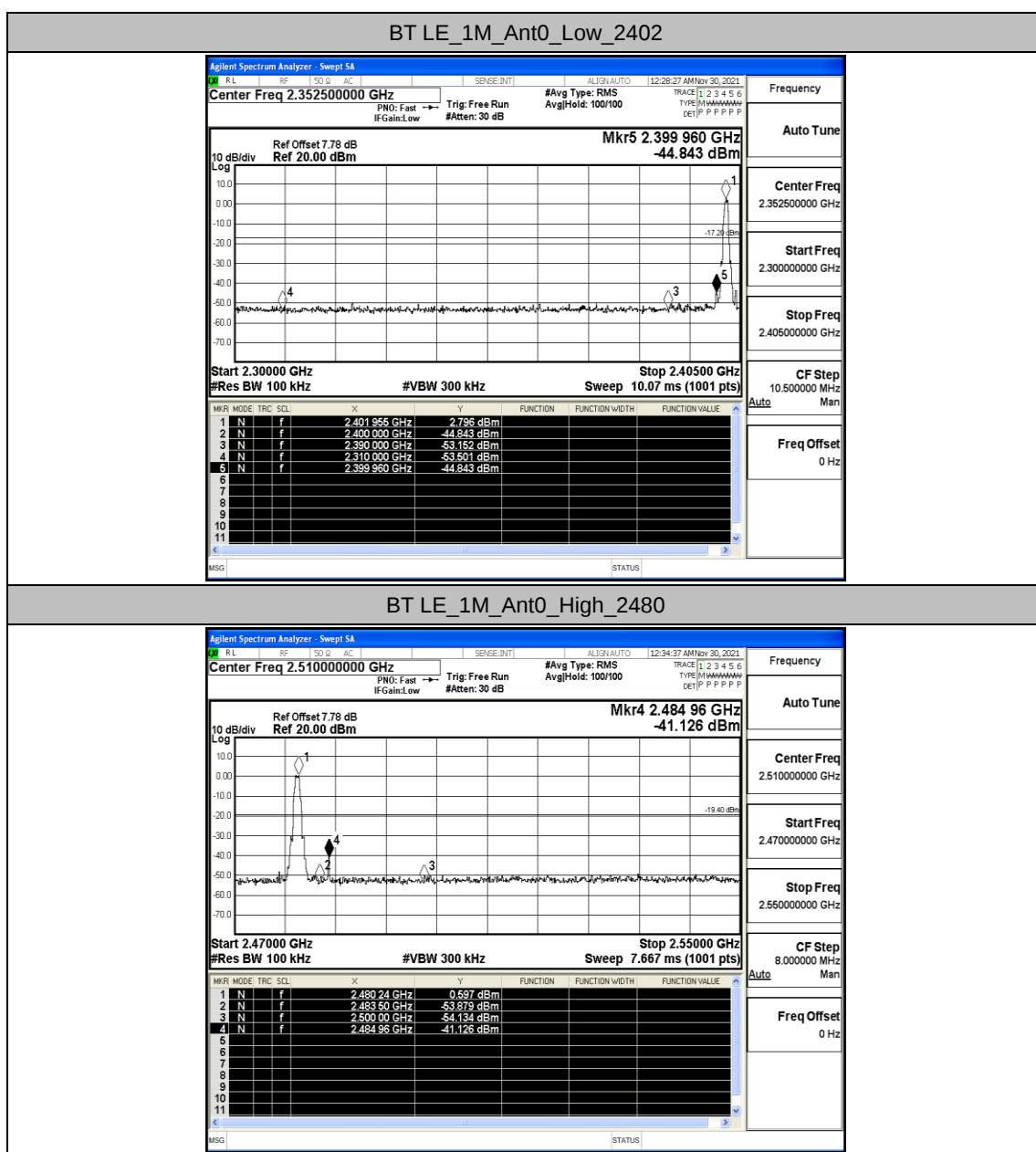


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BT LE_1M	Ant0	Low	2402	2.80	-44.84	≤-17.2	PASS
		High	2480	0.60	-41.13	≤-19.4	PASS

Test Graphs



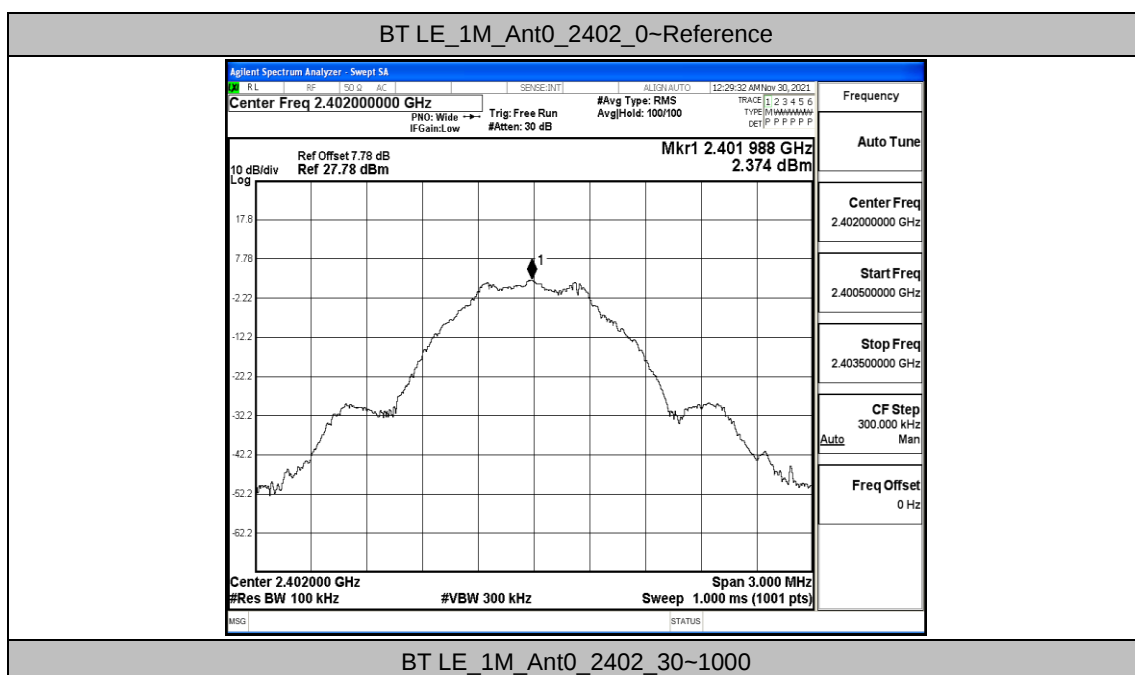


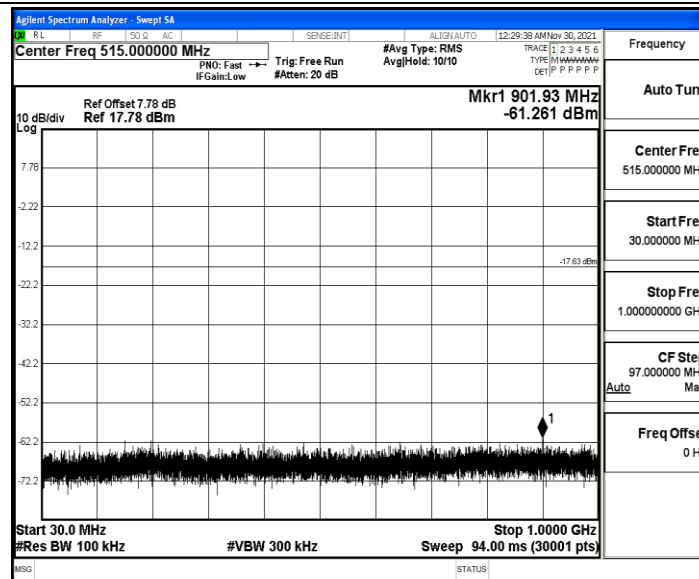
B.5 Conducted Spurious Emission

Test Result

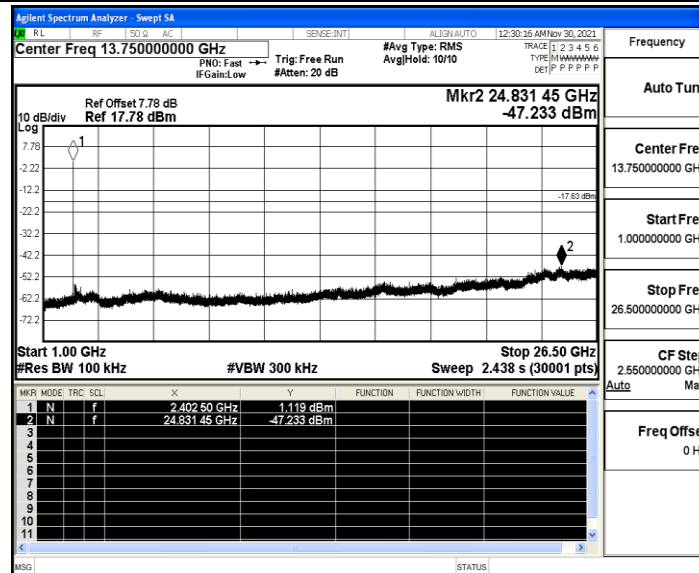
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BT LE_1M	Ant0	2402	Reference	2.37	2.37	---	PASS
			30~1000	2.37	-61.26	≤-17.63	PASS
			1000~26500	2.37	-47.23	≤-17.63	PASS
		2440	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-62.12	≤-18.07	PASS
			1000~26500	1.93	-47.18	≤-18.07	PASS
		2480	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-61.33	≤-18.92	PASS
			1000~26500	1.08	-47.08	≤-18.92	PASS

Test Graphs

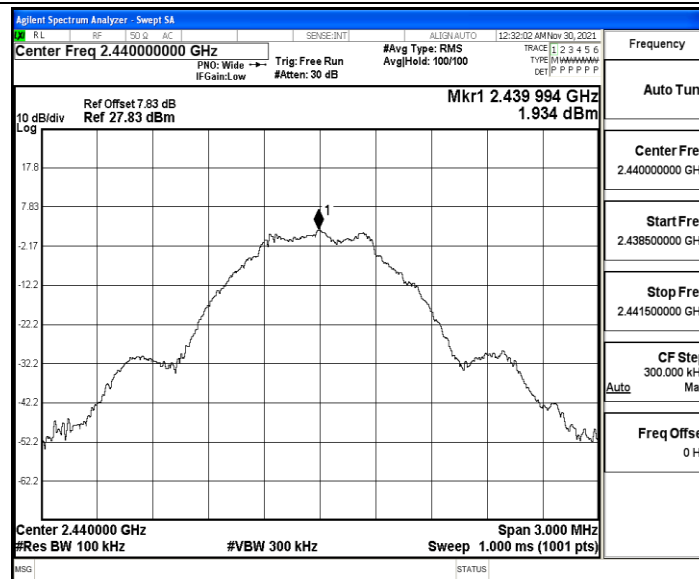




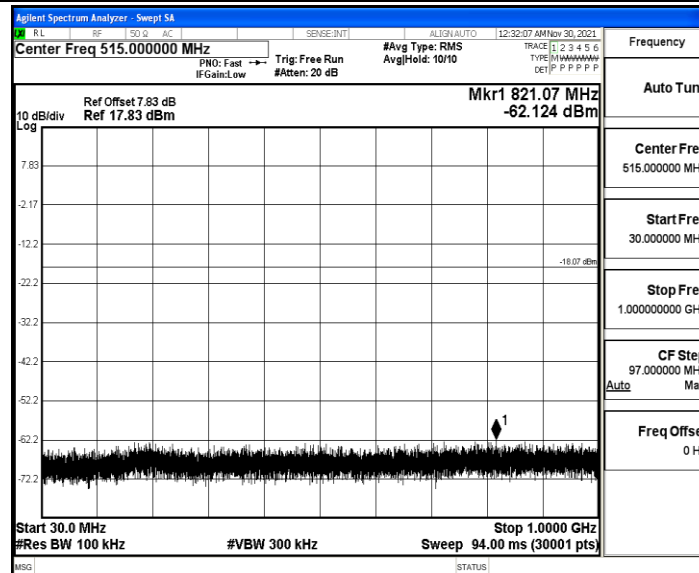
BT LE_1M_Ant0_2402_1000~26500



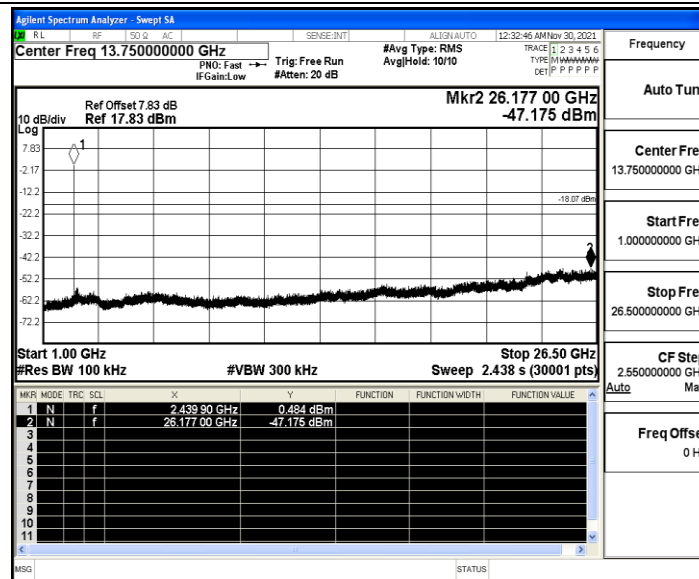
BT LE_1M_Ant0_2440_0-Reference



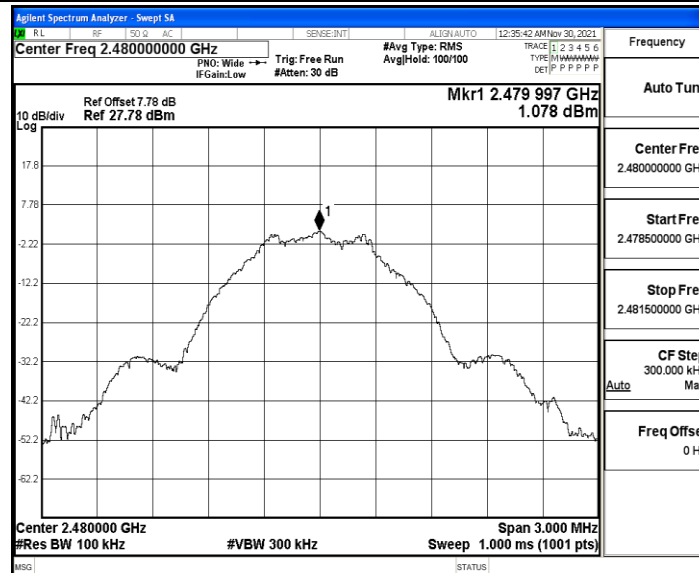
BT LE_1M_Ant0_2440_30~1000



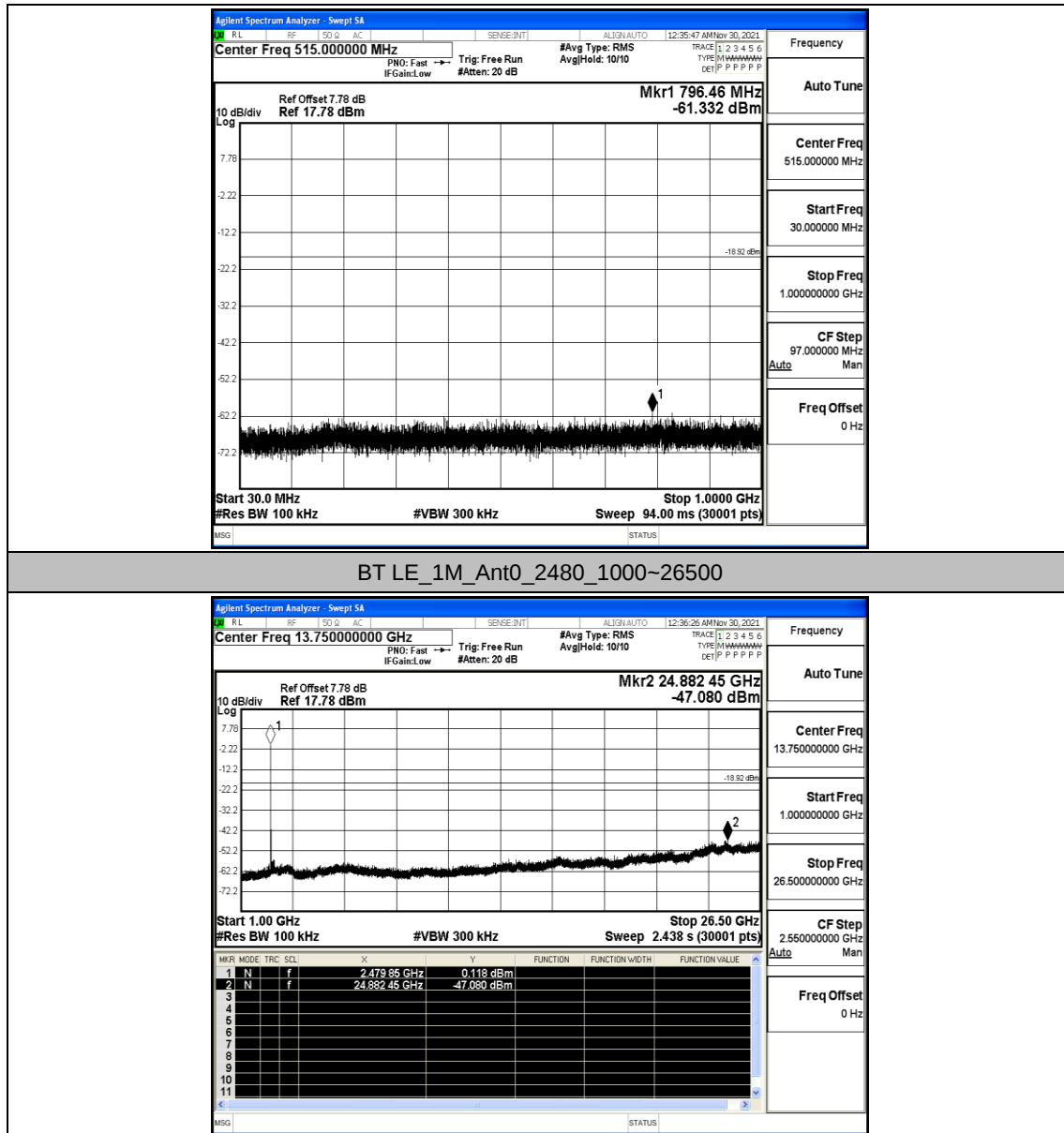
BT LE_1M_Ant0_2440_1000~26500



BT LE_1M_Ant0_2480_0-Reference



BT LE_1M_Ant0_2480_30-1000



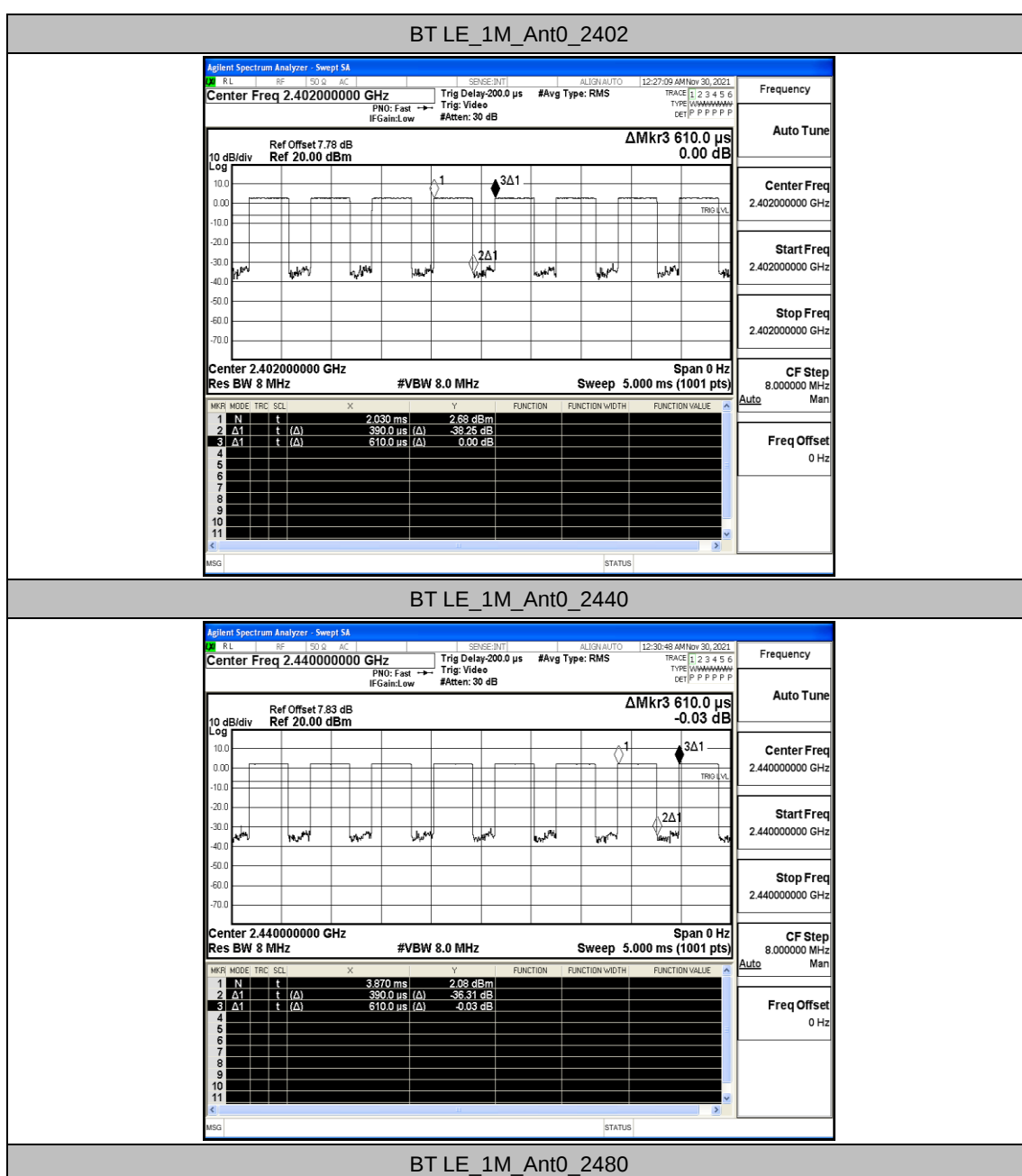


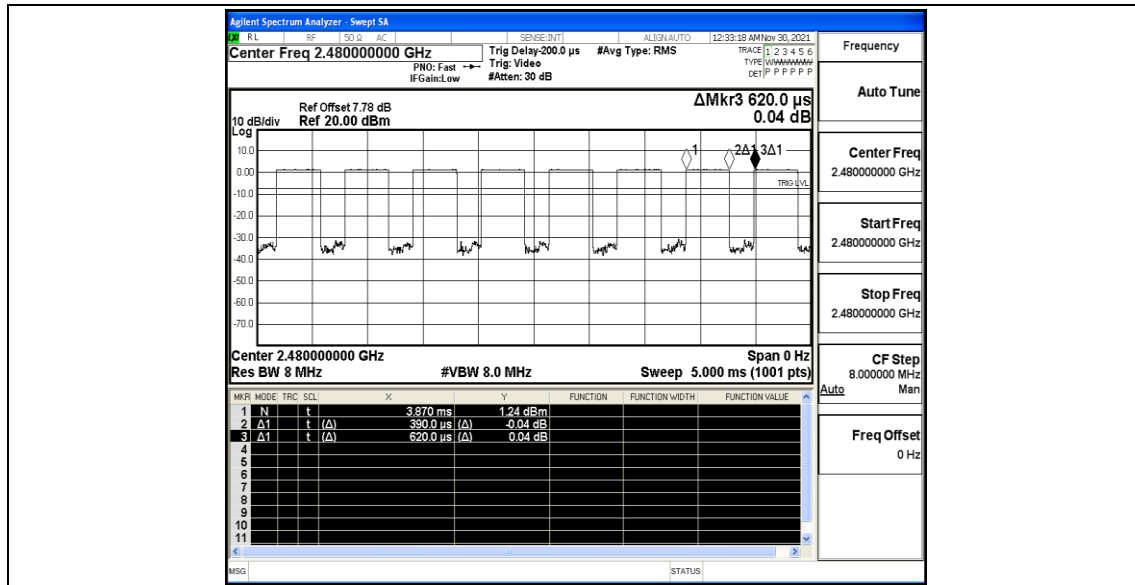
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BT LE_1M	Ant0	2402	0.39	0.61	0.6393	63.93	1.94	---	PASS
		2440	0.39	0.61	0.6393	63.93	1.94	---	PASS
		2480	0.39	0.62	0.6290	62.90	2.01	---	PASS

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

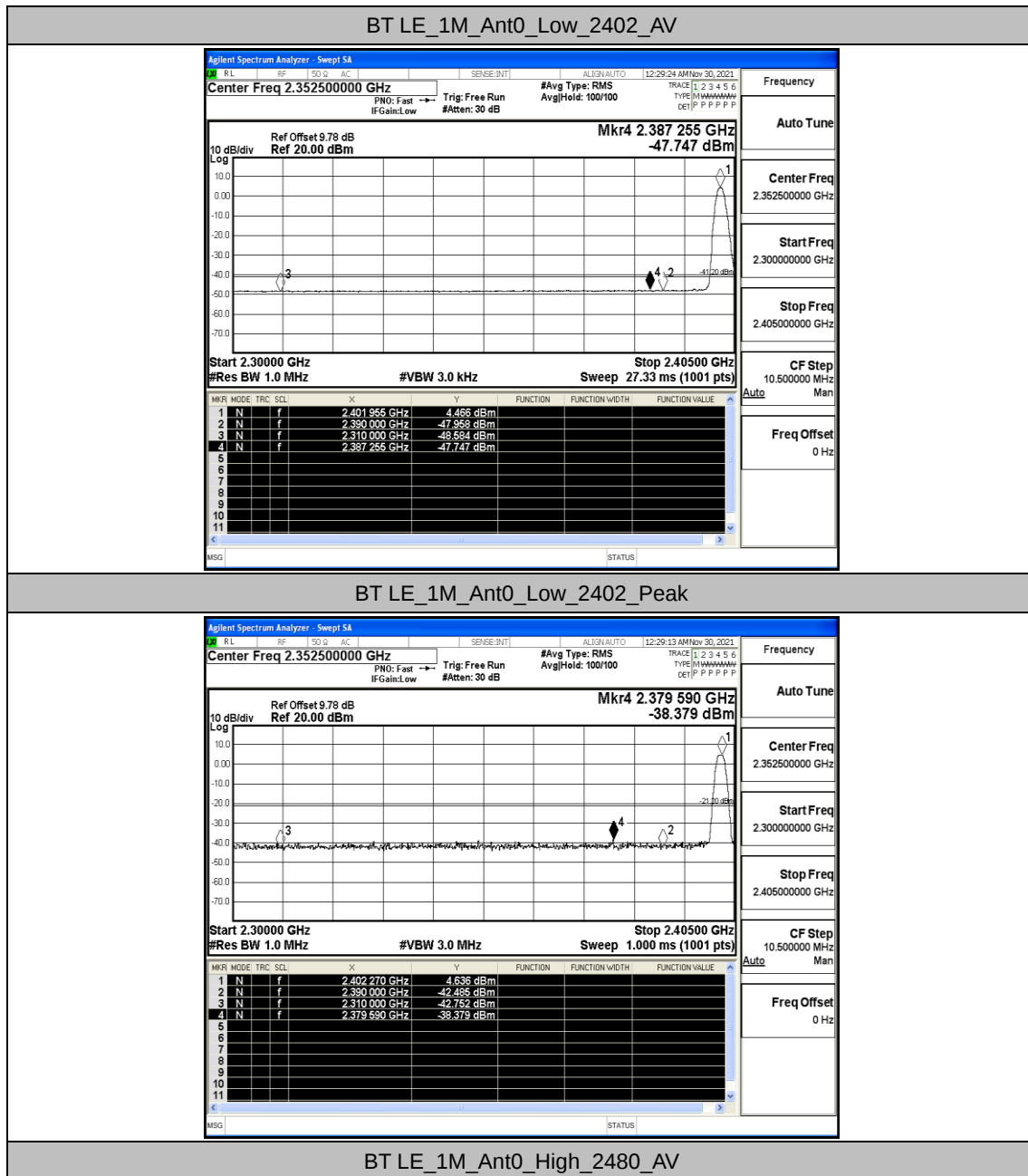
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BT LE_1M	Ant0	Low	2402	AV	2310.000	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2387.255	-47.75	≤-41.20	47.45	≤54	PASS
				AV	2390.000	-47.96	≤-41.20	47.24	≤54	PASS
				Peak	2310.000	-42.75	≤-21.20	52.45	≤74	PASS
				Peak	2379.590	-38.38	≤-21.20	56.82	≤74	PASS
				Peak	2390.000	-42.49	≤-21.20	52.71	≤74	PASS
		High	2480	AV	2483.500	-46.99	≤-41.20	48.21	≤54	PASS
				AV	2484.800	-42.99	≤-41.20	52.21	≤54	PASS
				AV	2500.000	-47.29	≤-41.20	47.91	≤54	PASS
				Peak	2483.500	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2485.040	-35.95	≤-21.20	59.25	≤74	PASS
				Peak	2500.000	-39.43	≤-21.20	55.77	≤74	PASS

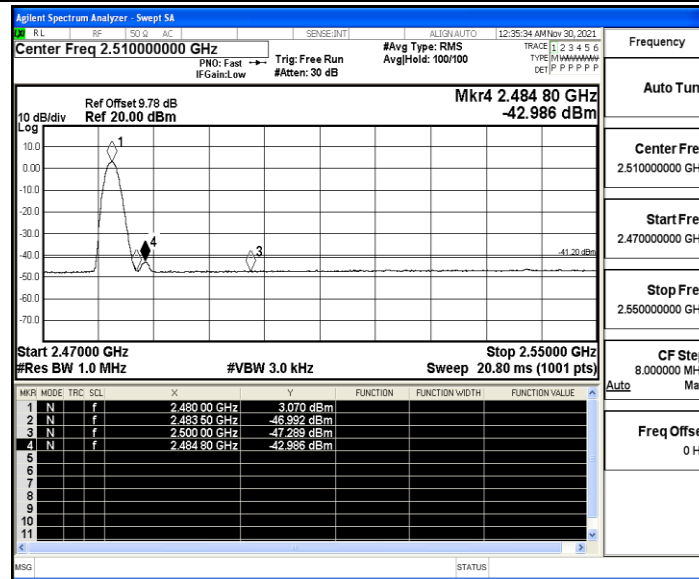
Note:

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





BT LE_1M_Ant0_High_2480_Peak

