



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TABLET PC

Test Model: T8

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 DTS Bandwidth

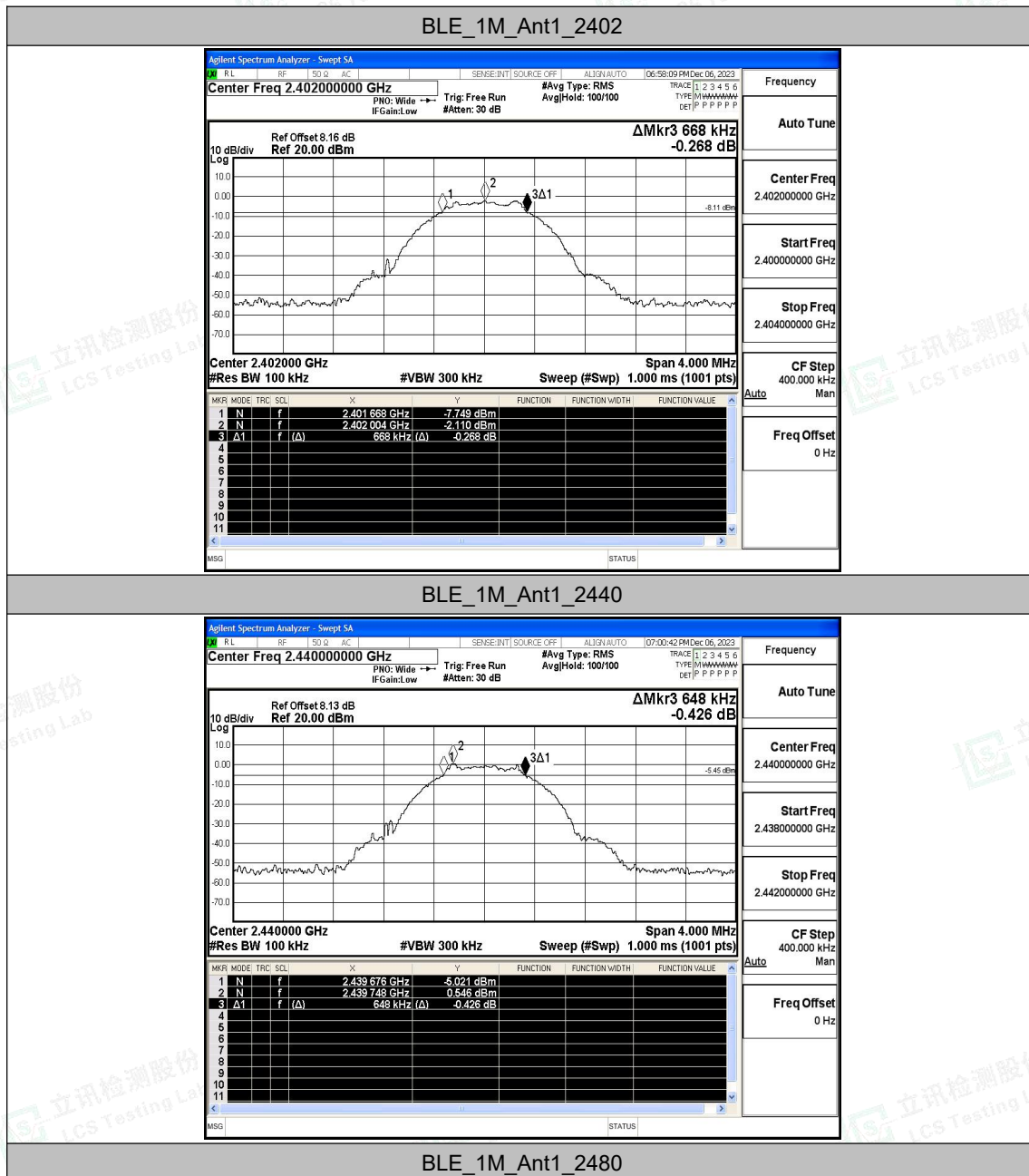
Test Result

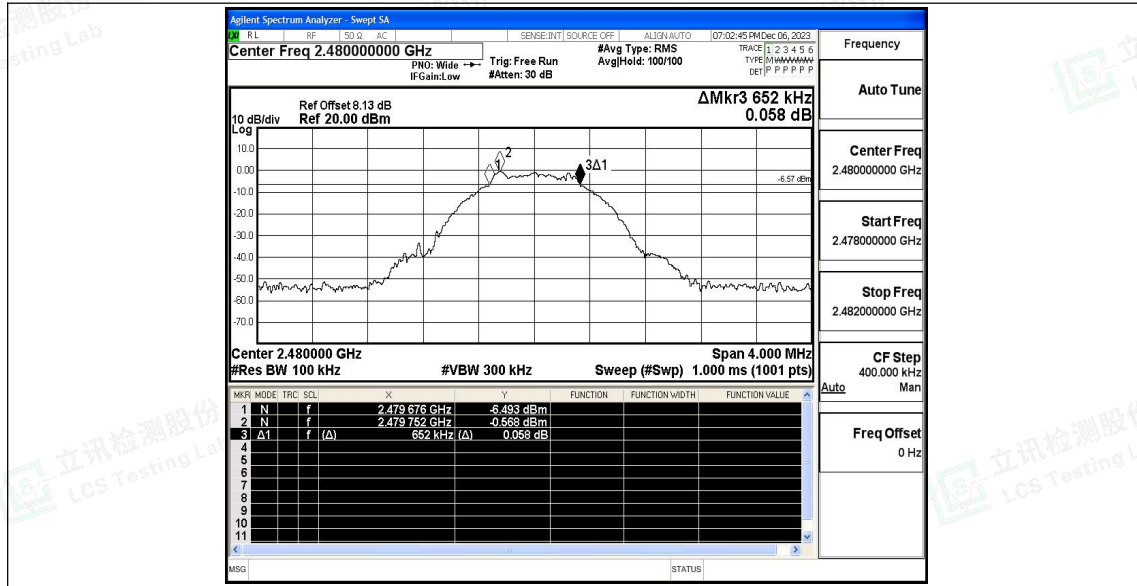
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.648	2439.676	2440.324	0.5	PASS
		2480	0.652	2479.676	2480.328	0.5	PASS





Test Graphs







B.2 Maximum conducted output power

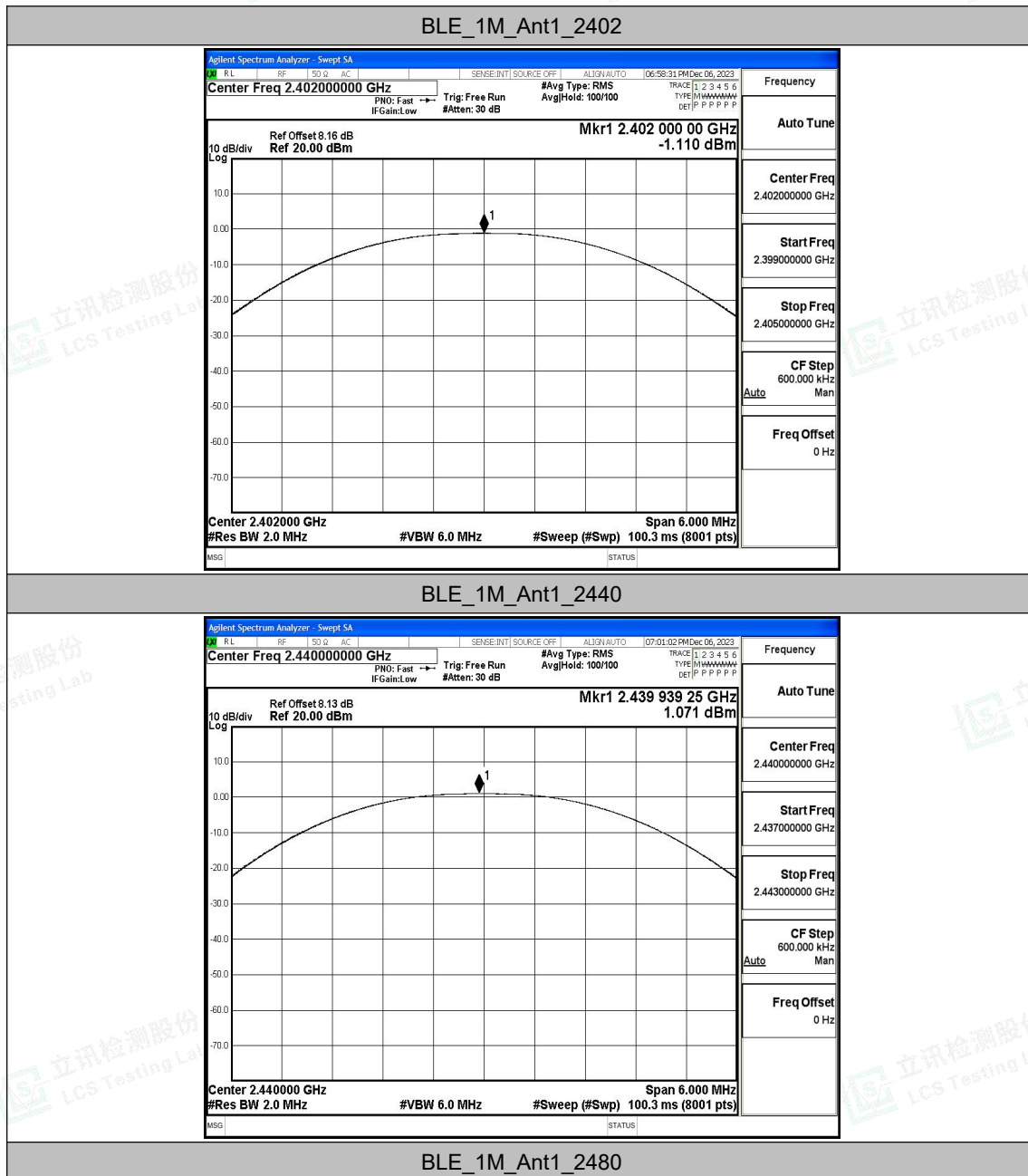
Test Result

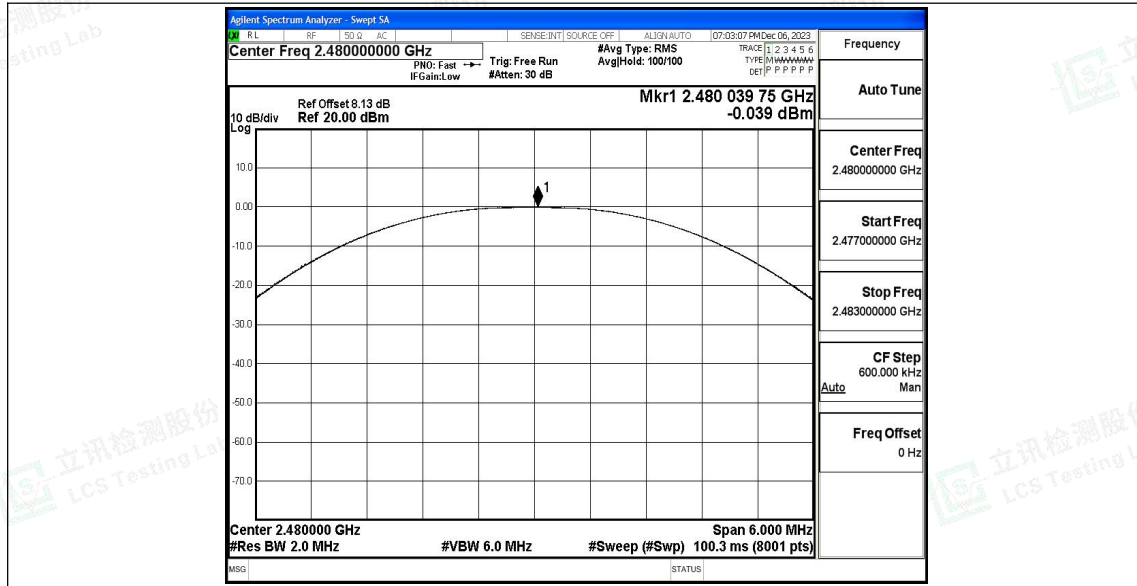
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.11	≤30	PASS
		2440	1.07	≤30	PASS
		2480	-0.04	≤30	PASS





Test Graphs







B.3 Maximum power spectral density

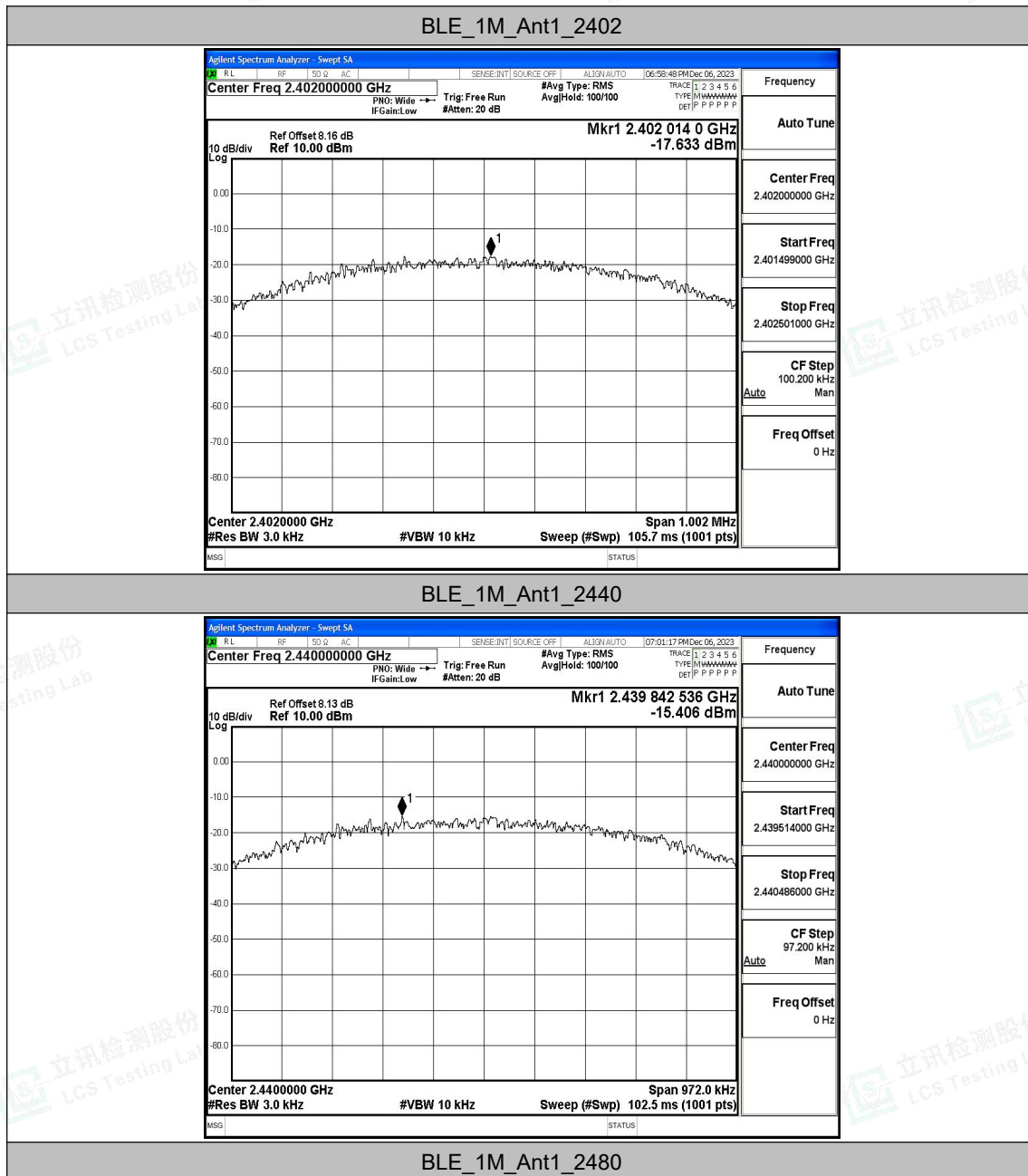
Test Result

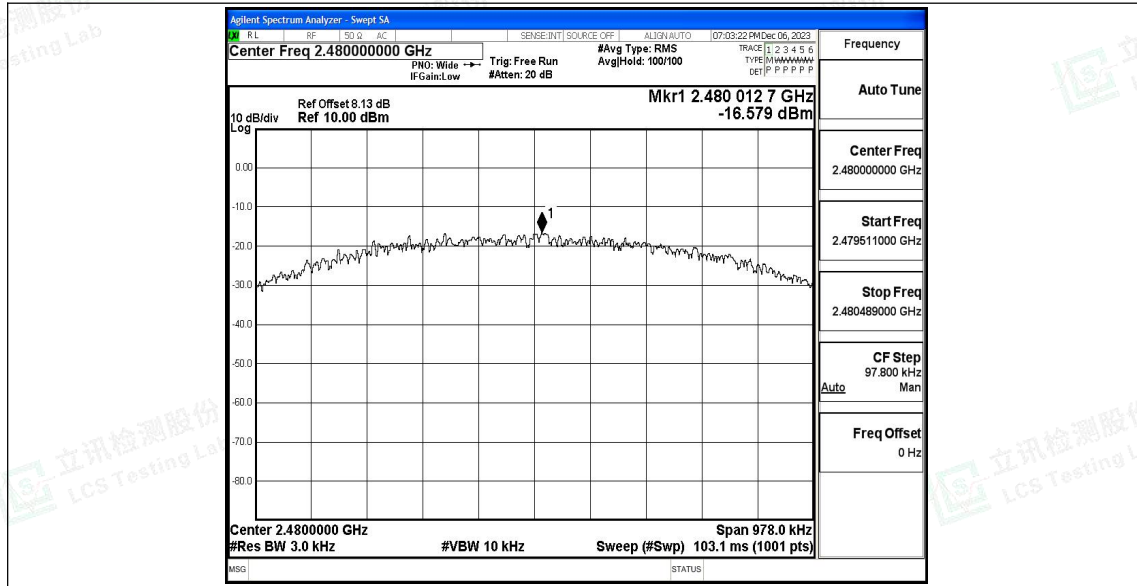
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.63	≤8.00	PASS
		2440	-15.41	≤8.00	PASS
		2480	-16.58	≤8.00	PASS





Test Graphs







B.4 Band edge measurements

Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.25	-1.87
		2440	2440.25	-1.83
		2480	2480.25	-2.58

Band edge measurements

Test Result

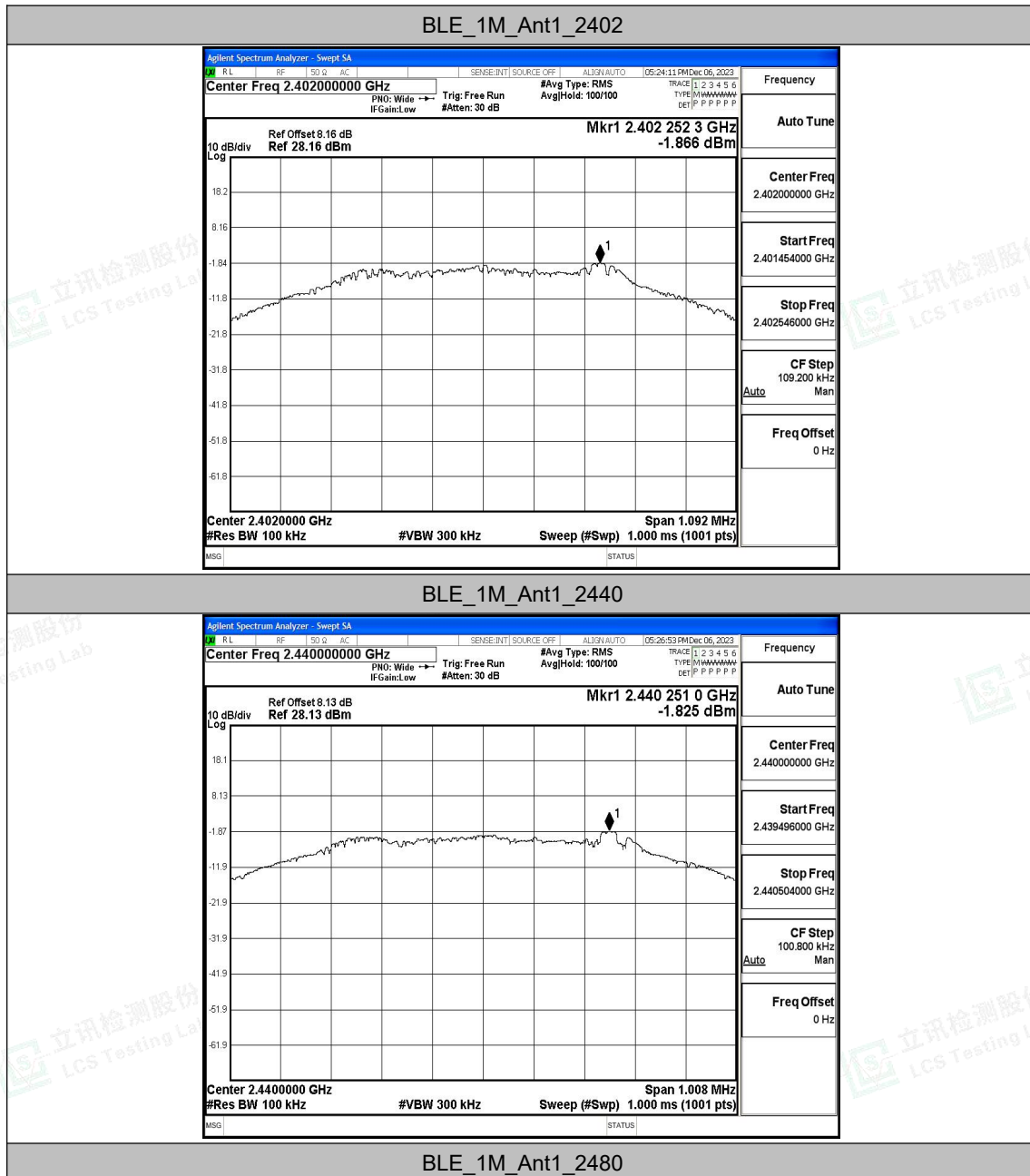
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.87	-49.27	≤-21.87	PASS
		High	2480	-2.58	-50.02	≤-22.58	PASS

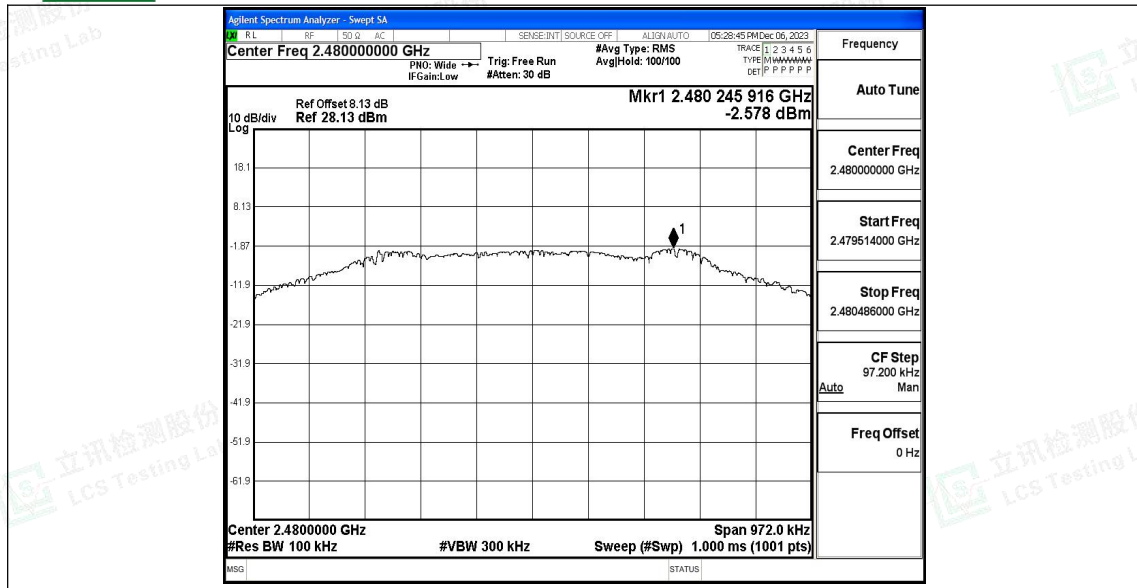




Reference level measurement

Test Graphs

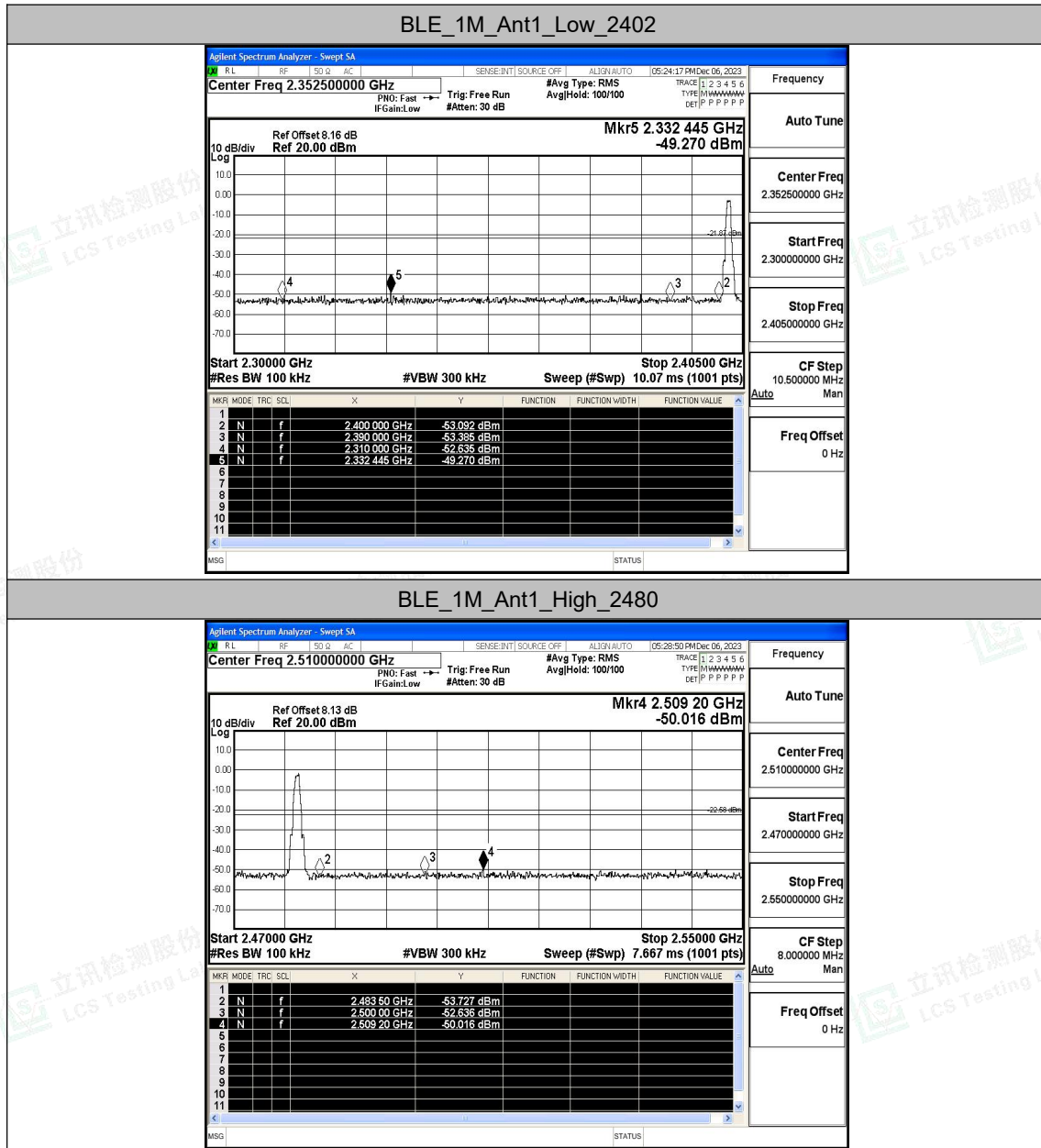






Band edge measurements

Test Graphs





B.5 Conducted Spurious Emission

Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.25	-1.87
		2440	2440.25	-1.83
		2480	2480.25	-2.58

Conducted Spurious Emission

Test Result

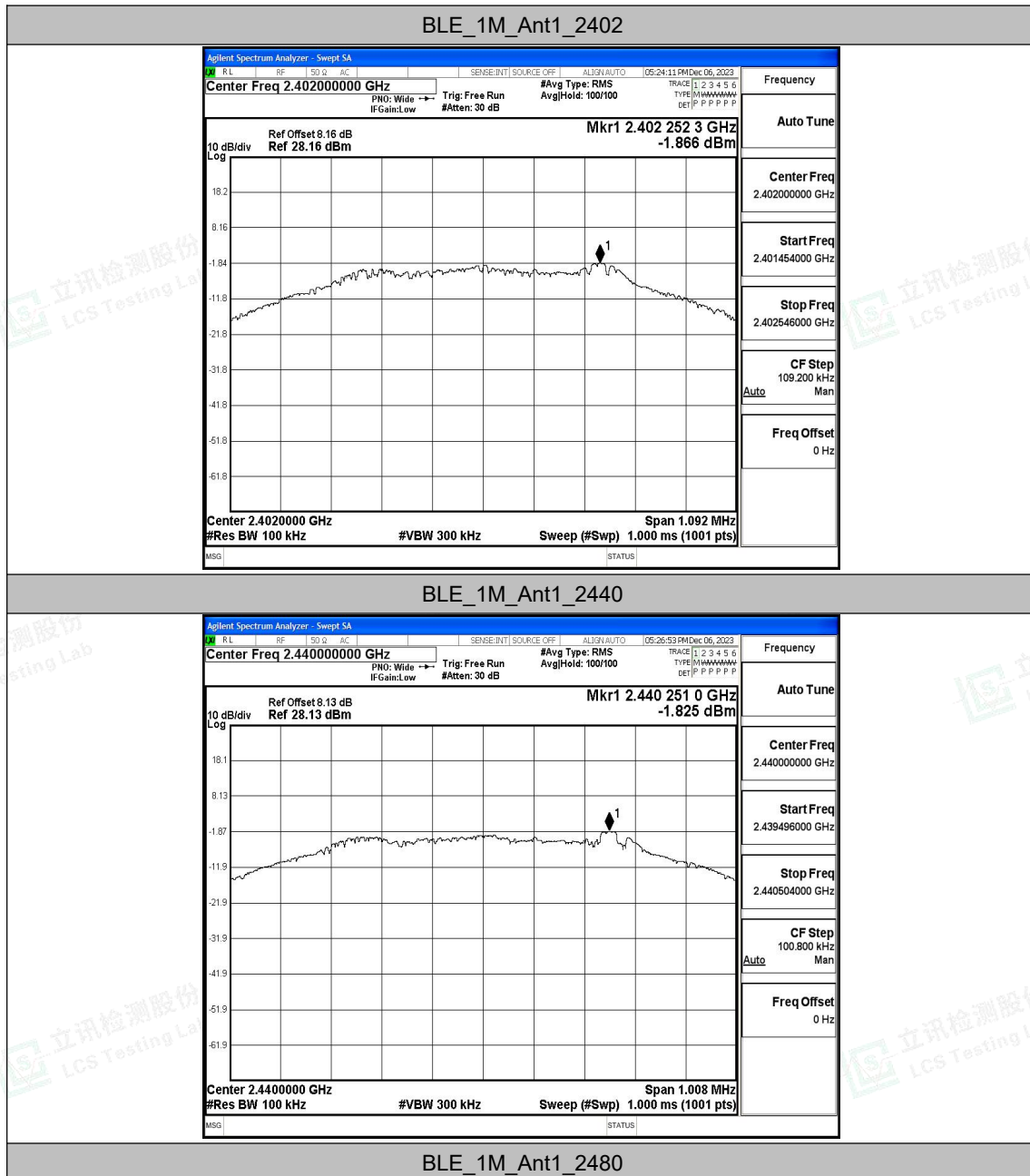
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-1.87	-61.36	≤-21.87	PASS
			1000~26500	-1.87	-48.65	≤-21.87	PASS
		2440	30~1000	-1.83	-61.46	≤-21.83	PASS
			1000~26500	-1.83	-49.12	≤-21.83	PASS
		2480	30~1000	-2.58	-61.84	≤-22.58	PASS
			1000~26500	-2.58	-49.18	≤-22.58	PASS

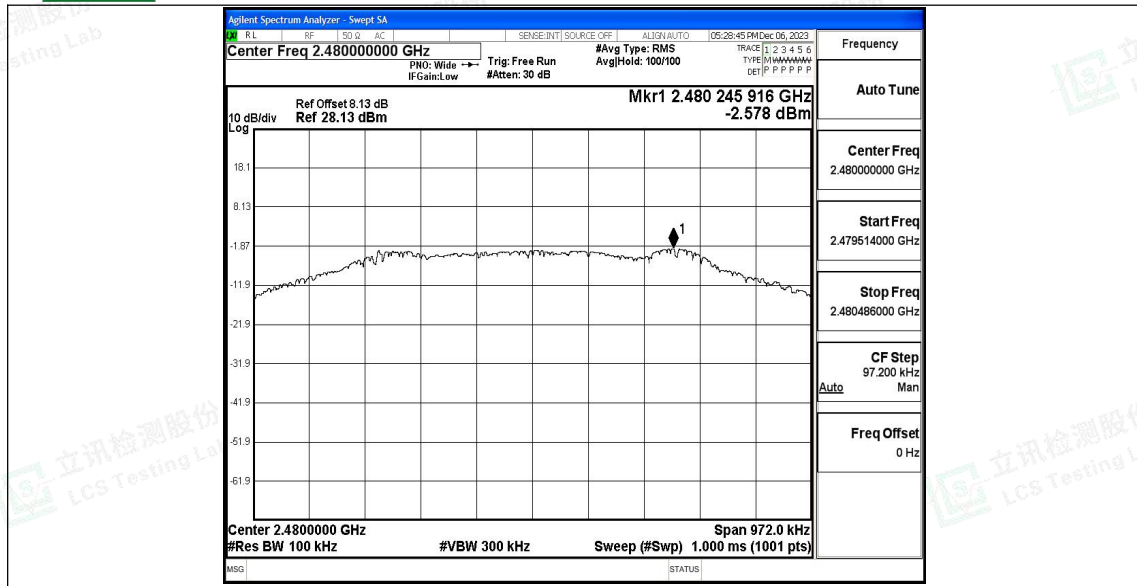




Reference level measurement

Test Graphs

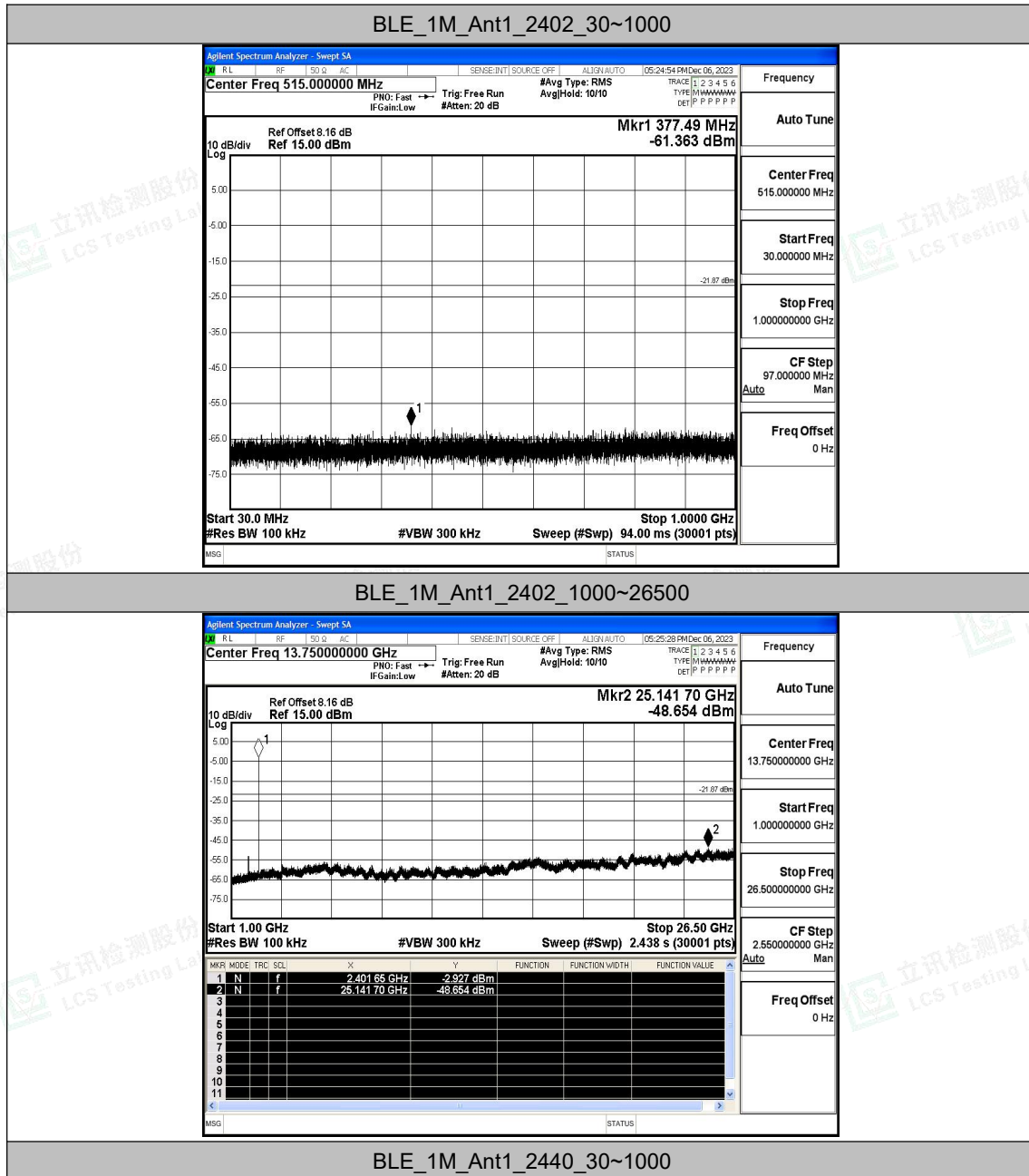


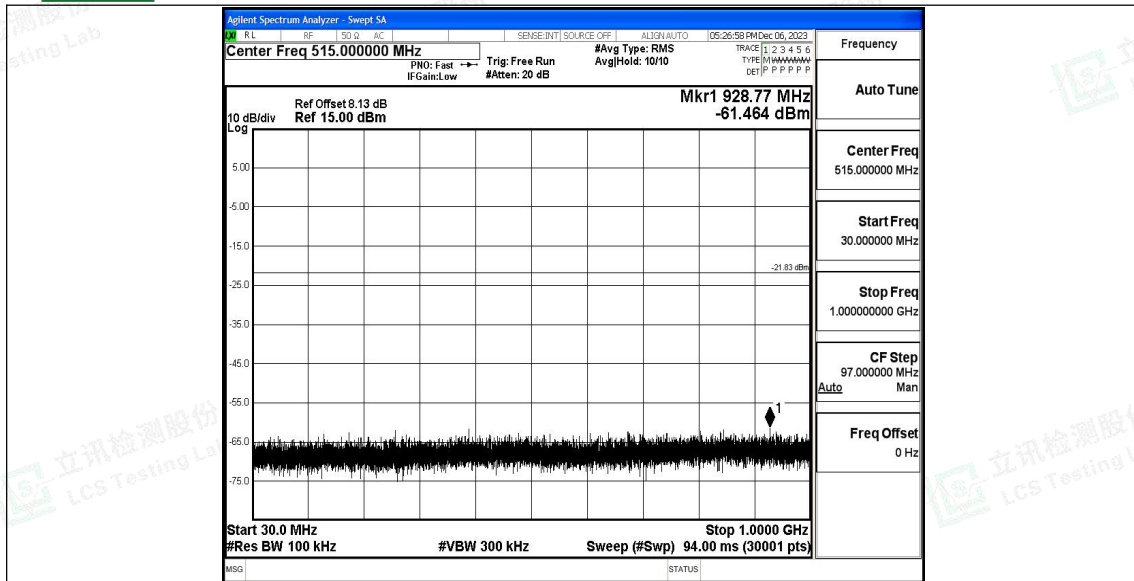




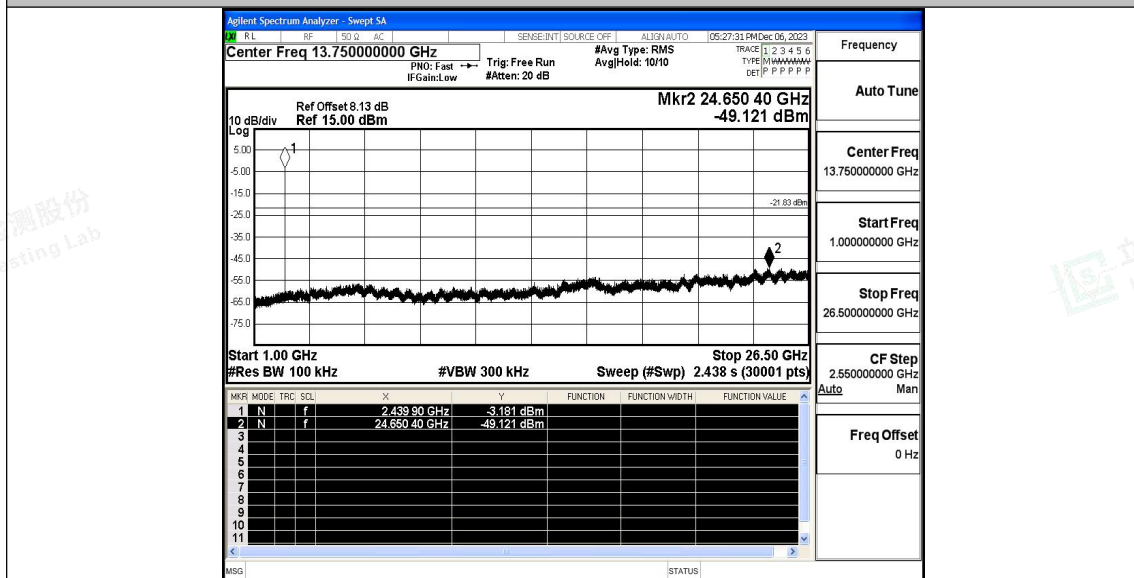
Conducted Spurious Emission

Test Graphs



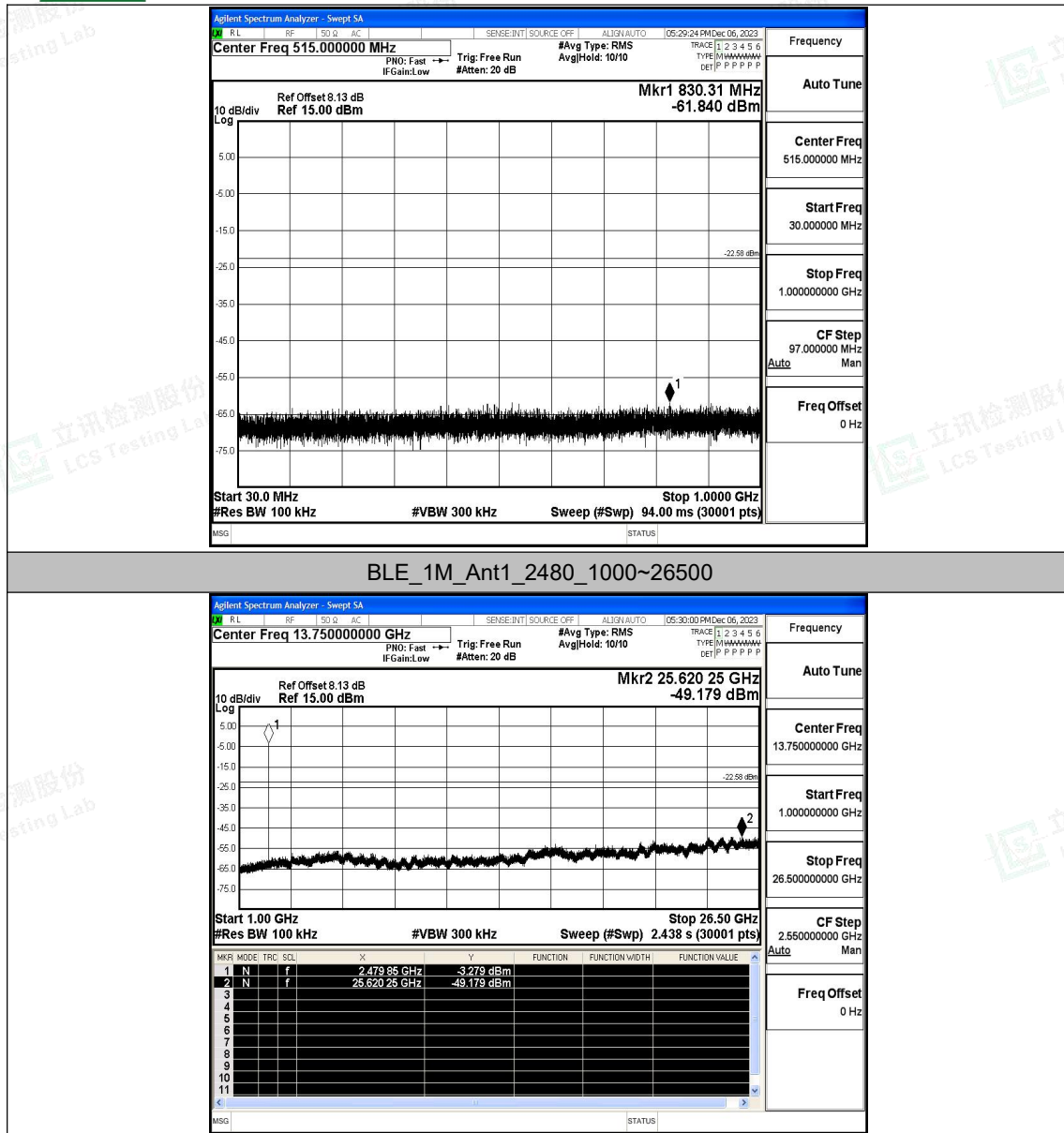


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000







B.6 Duty Cycle

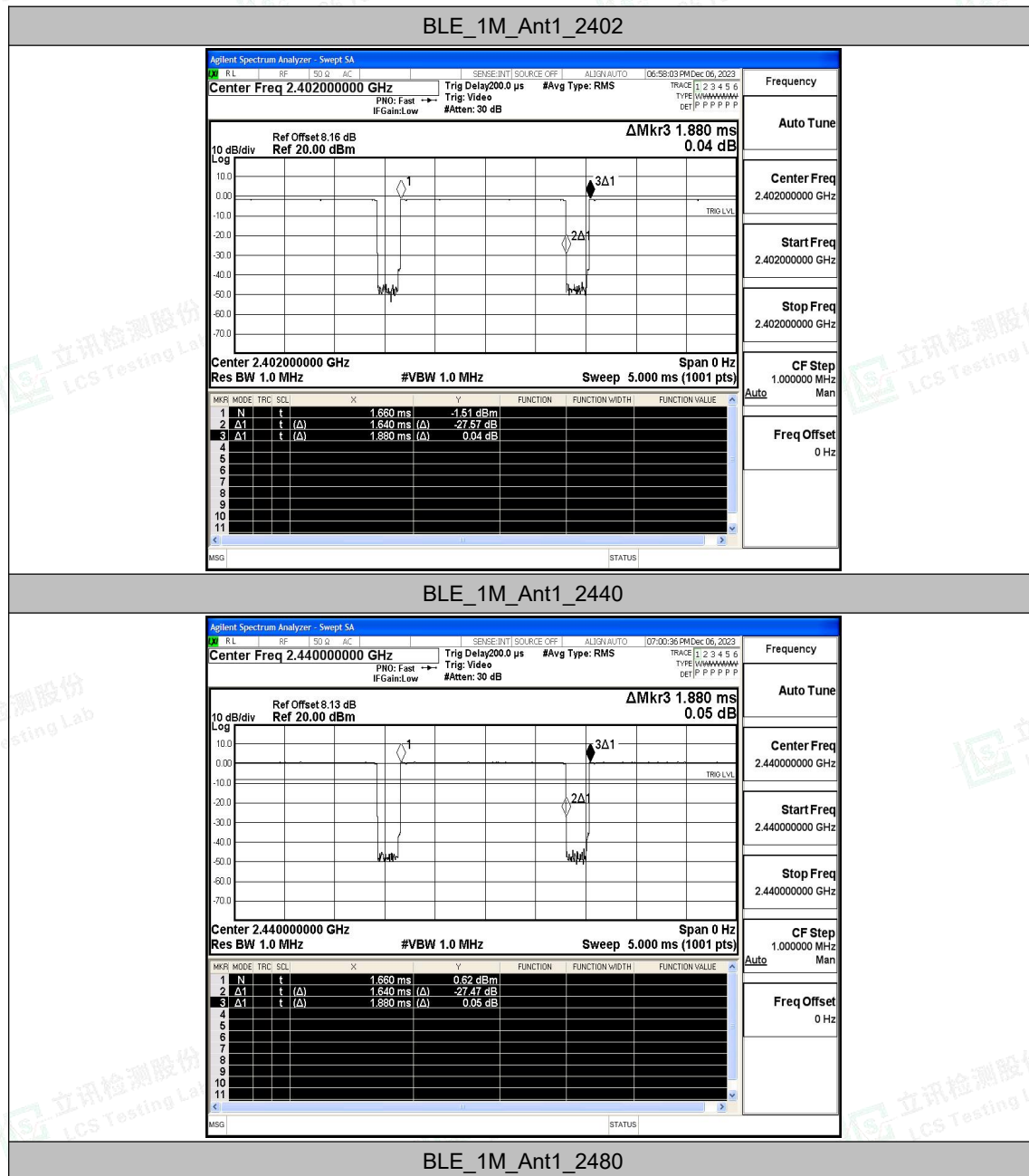
Test Result

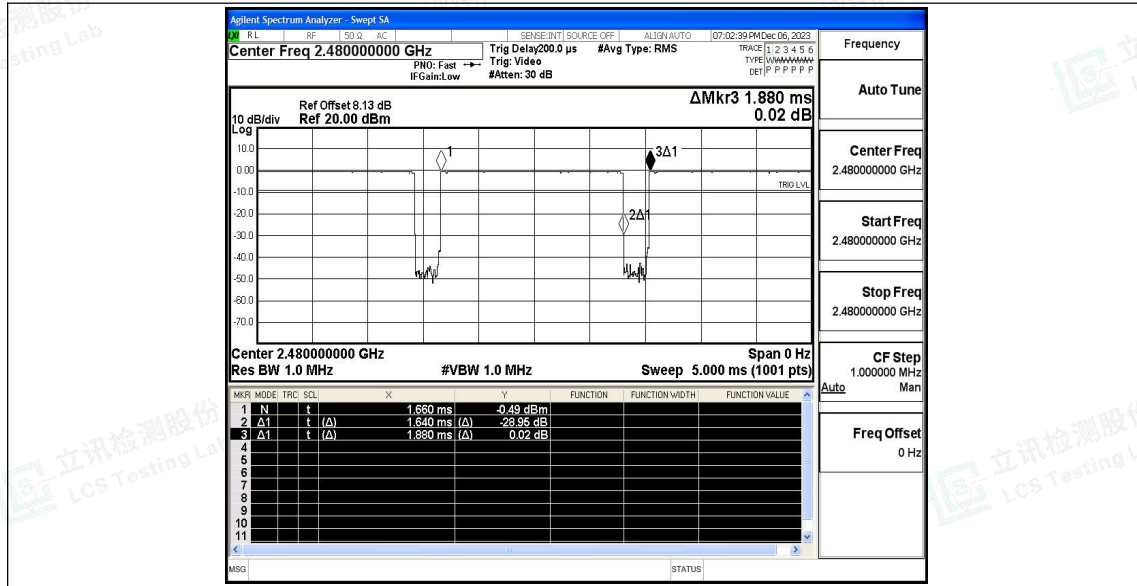
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T
BLE_1M	Ant1	2402	1.64	1.88	0.8723	87.23	0.59	0.61
		2440	1.64	1.88	0.8723	87.23	0.59	0.61
		2480	1.64	1.88	0.8723	87.23	0.59	0.61





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	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2385.365	-48.46	≤-41.20	46.74	≤54	PASS
				AV	2390.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2310.000	-42.01	≤-21.20	53.19	≤74	PASS
				Peak	2347.460	-38.04	≤-21.20	57.16	≤74	PASS
				Peak	2390.000	-41.85	≤-21.20	53.35	≤74	PASS
		High	2480	AV	2483.500	-48	≤-41.20	47.20	≤54	PASS
				AV	2483.520	-48	≤-41.20	47.20	≤54	PASS
				AV	2500.000	-48.56	≤-41.20	46.64	≤54	PASS
				Peak	2483.500	-41.78	≤-21.20	53.42	≤74	PASS
				Peak	2489.040	-39.73	≤-21.20	55.47	≤74	PASS
				Peak	2500.000	-42.14	≤-21.20	53.06	≤74	PASS

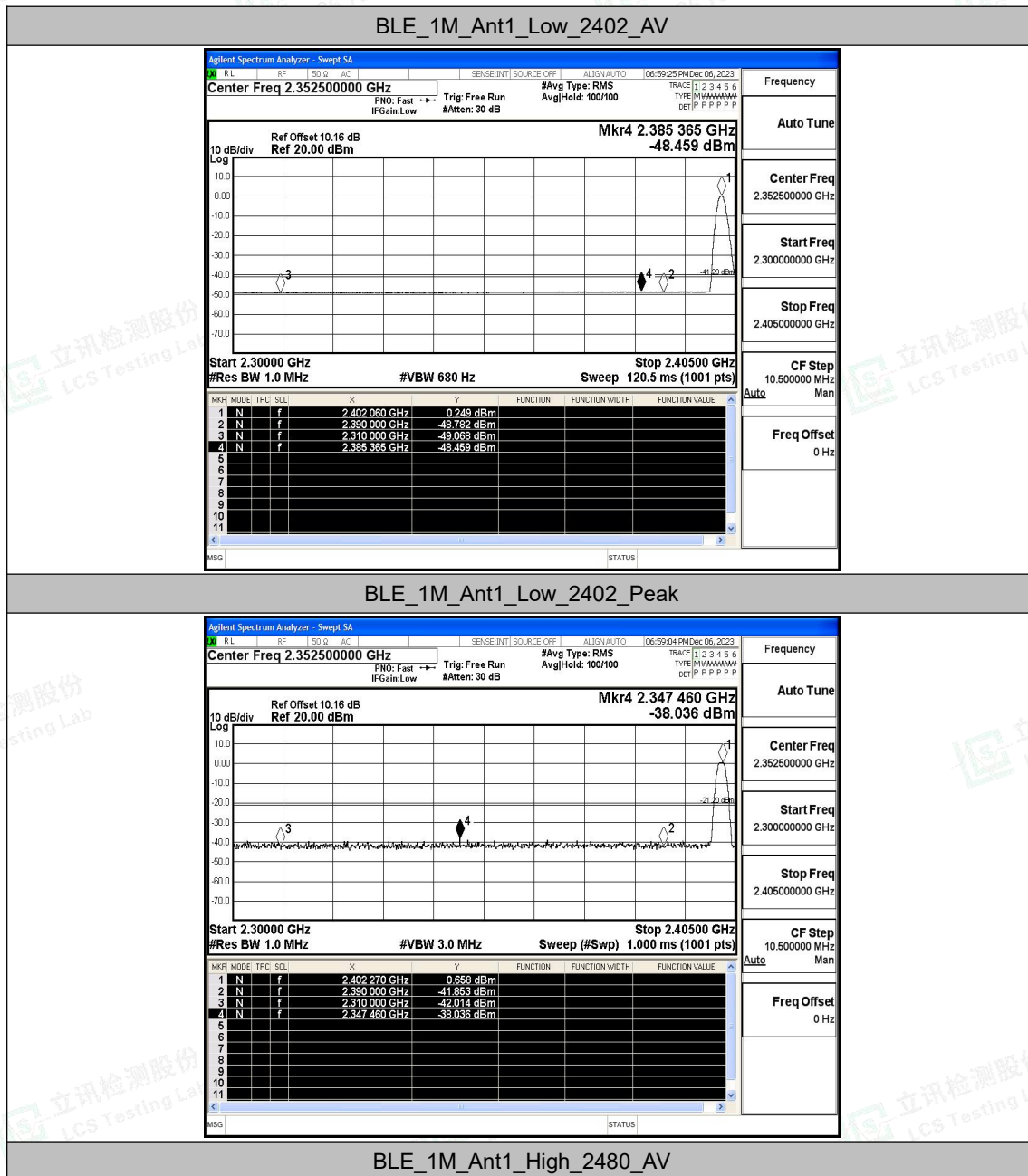
Note:

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.



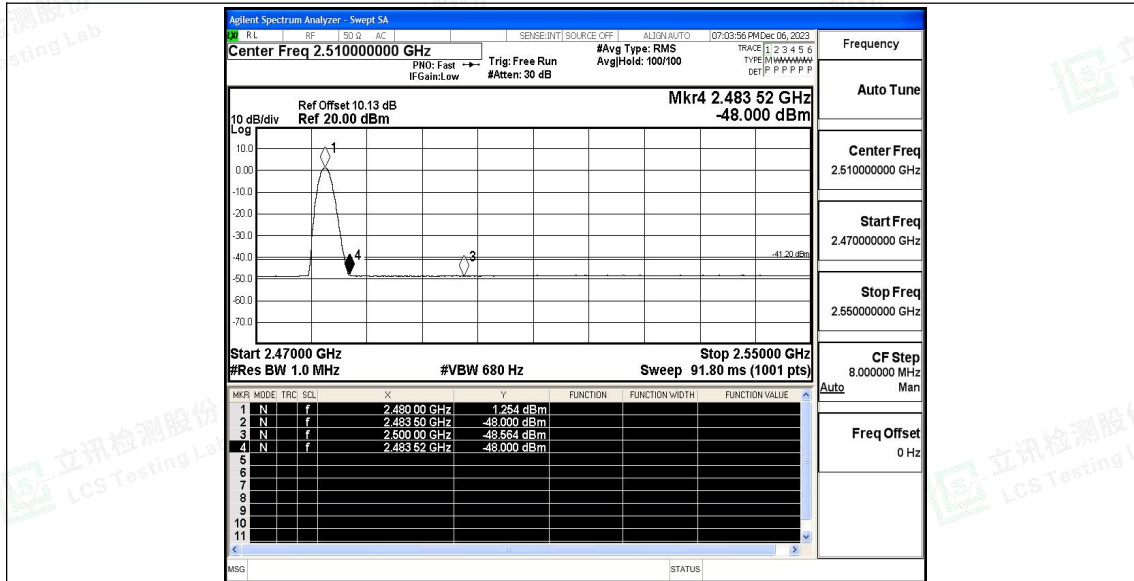


Test Graphs



BLE_1M_Ant1_High_2480_AV





BLE_1M_Ant1_High_2480_Peak

