



## 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

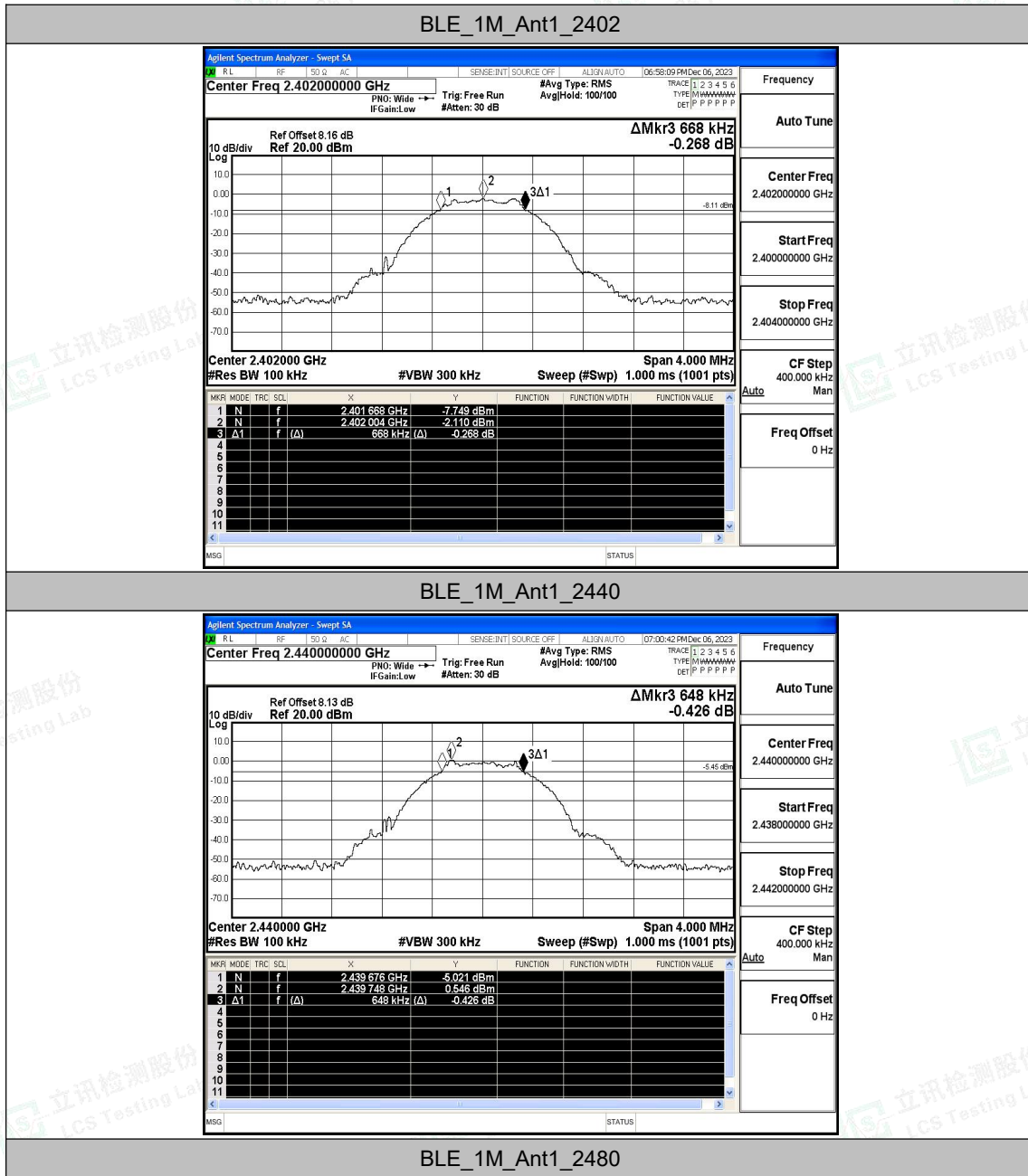
### Test Result

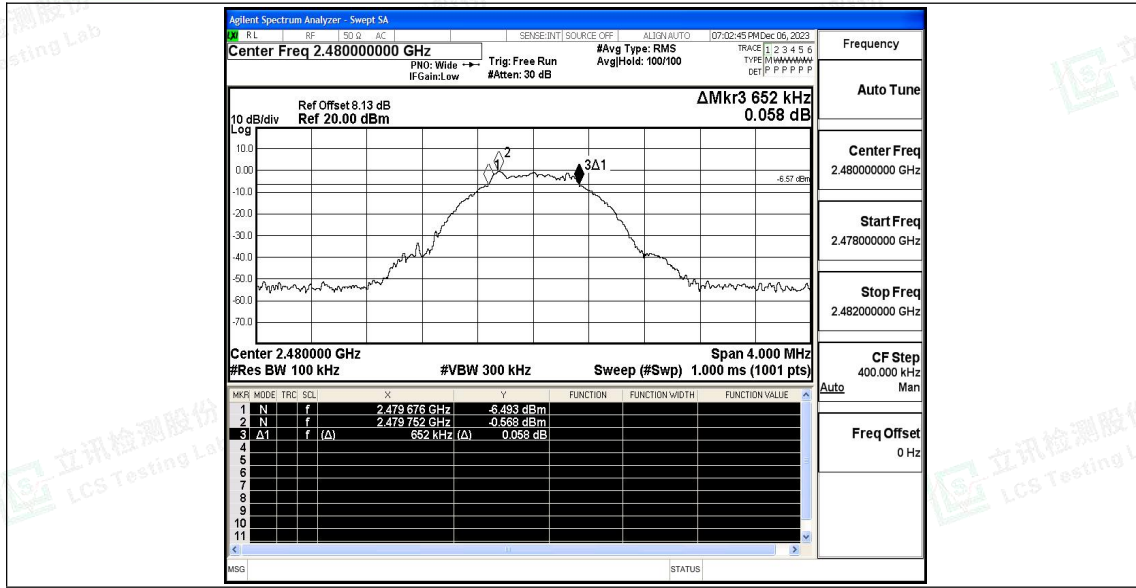
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.648	2439.676	2440.324	0.5	PASS
		2480	0.652	2479.676	2480.328	0.5	PASS





### Test Graphs







## B.2 Maximum conducted output power

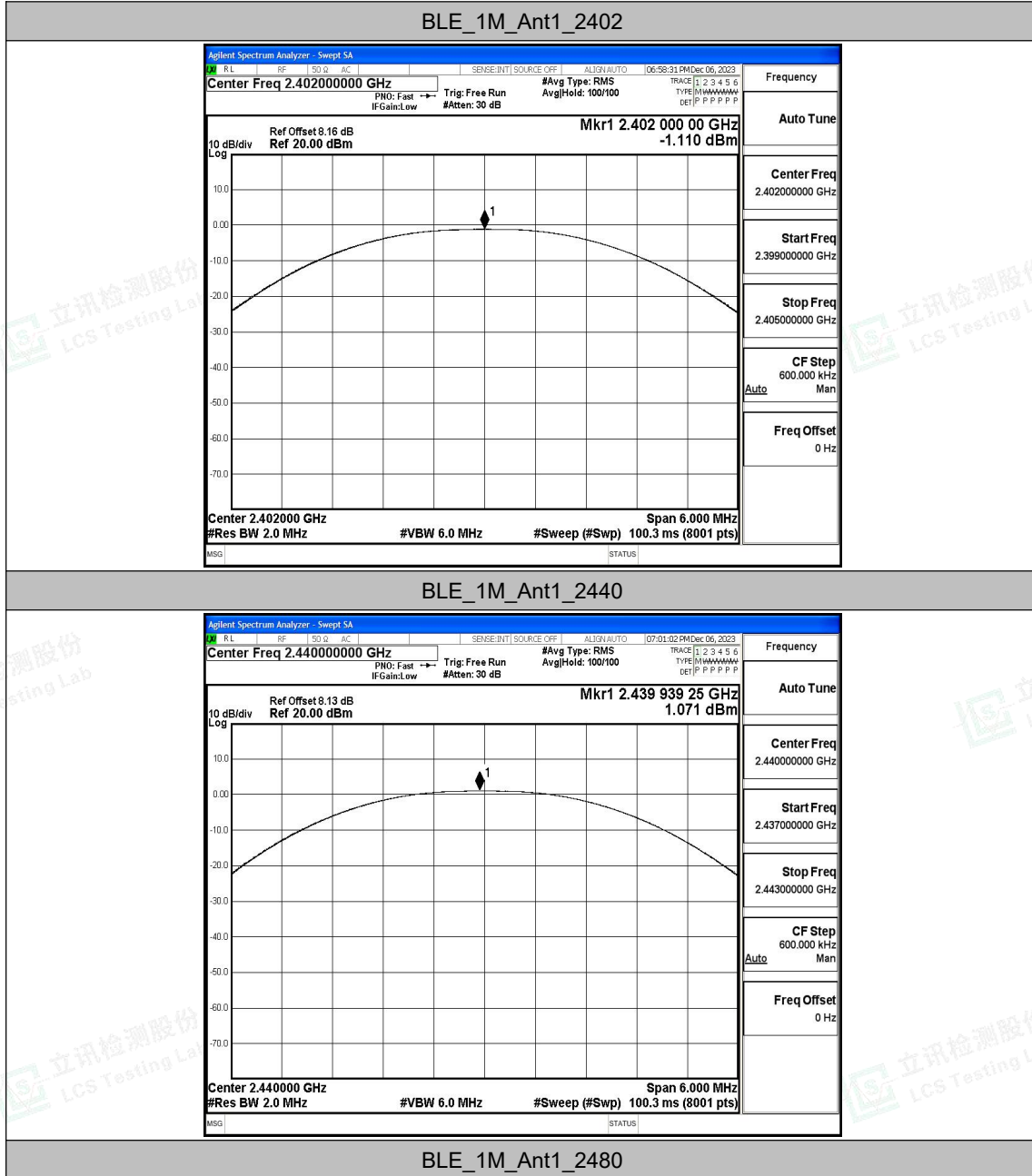
### Test Result

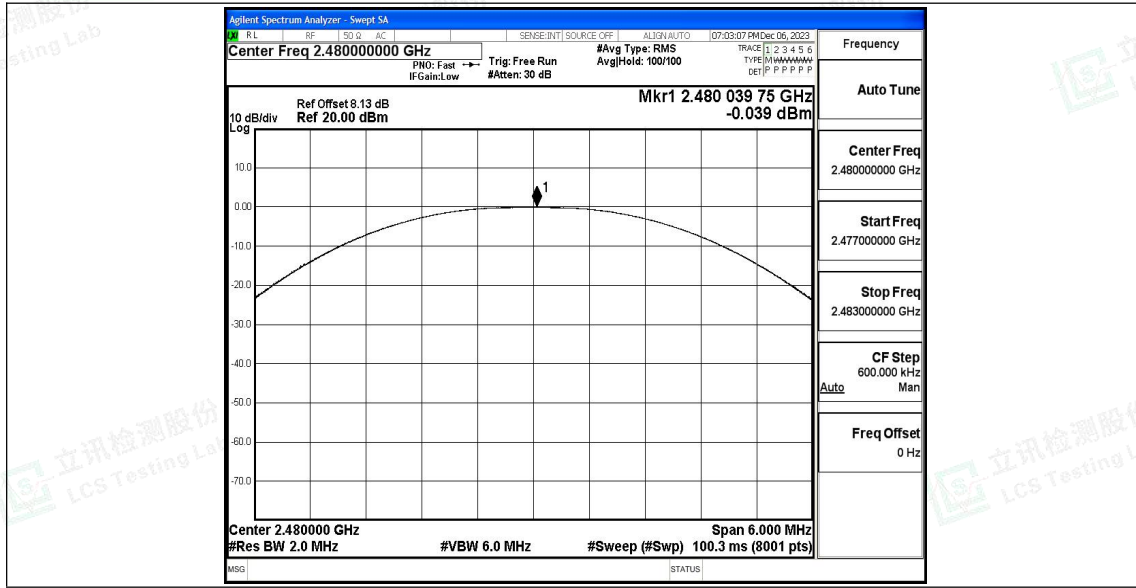
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.11	≤30	PASS
		2440	1.07	≤30	PASS
		2480	-0.04	≤30	PASS





### Test Graphs







### B.3 Maximum power spectral density

#### Test Result

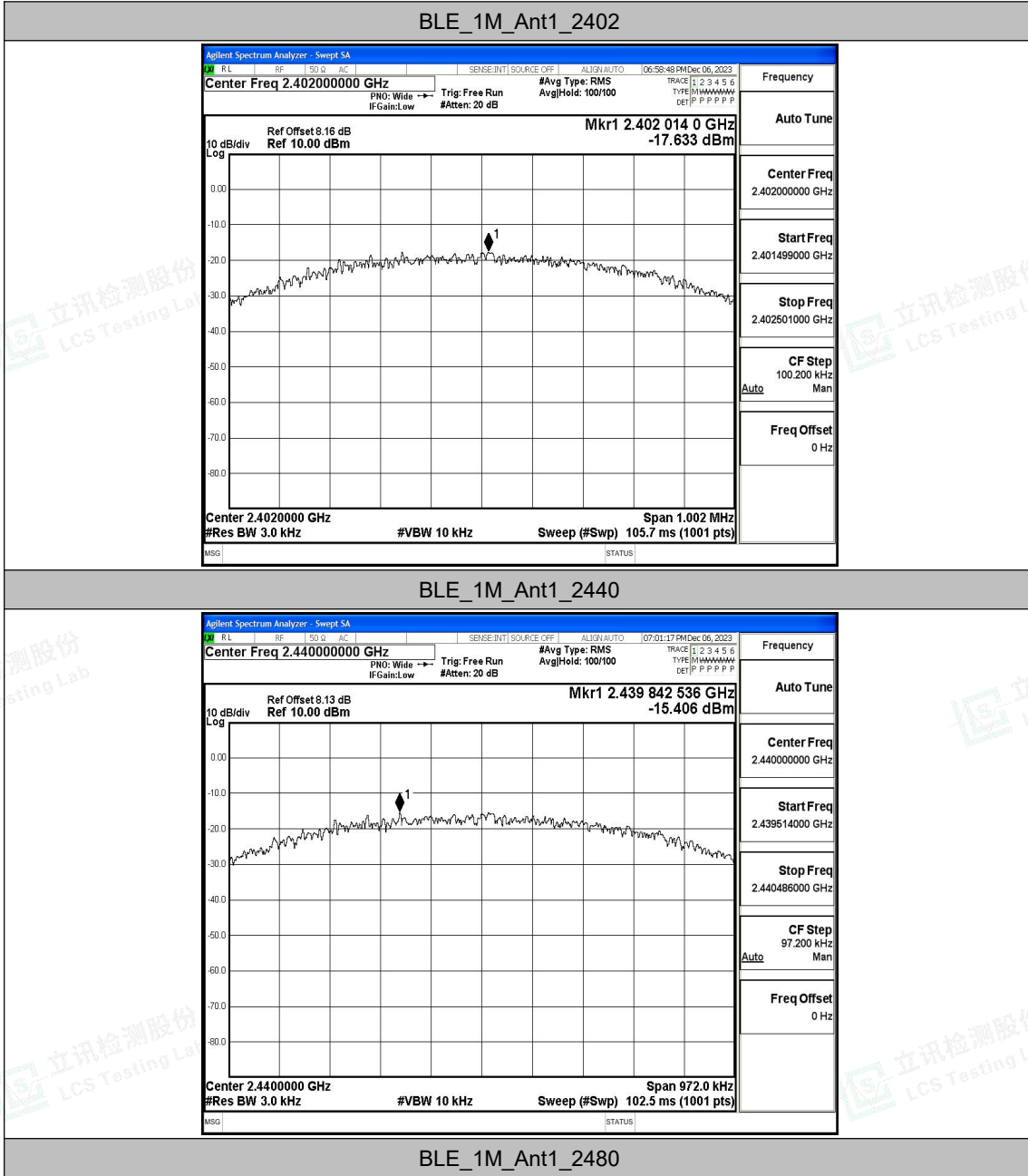
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.63	≤8.00	PASS
		2440	-15.41	≤8.00	PASS
		2480	-16.58	≤8.00	PASS

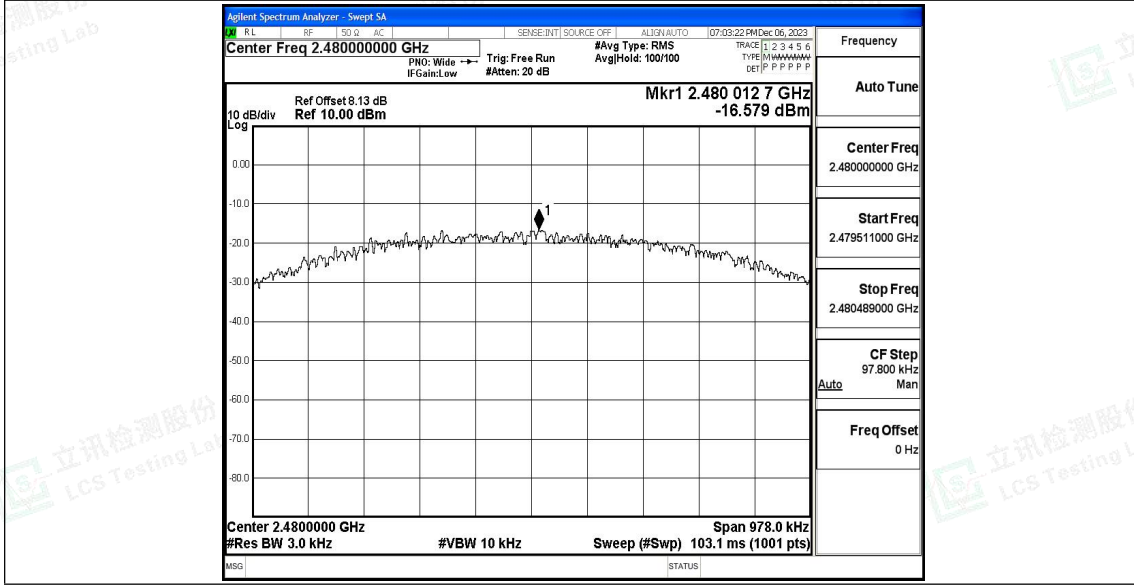






### Test Graphs







## 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

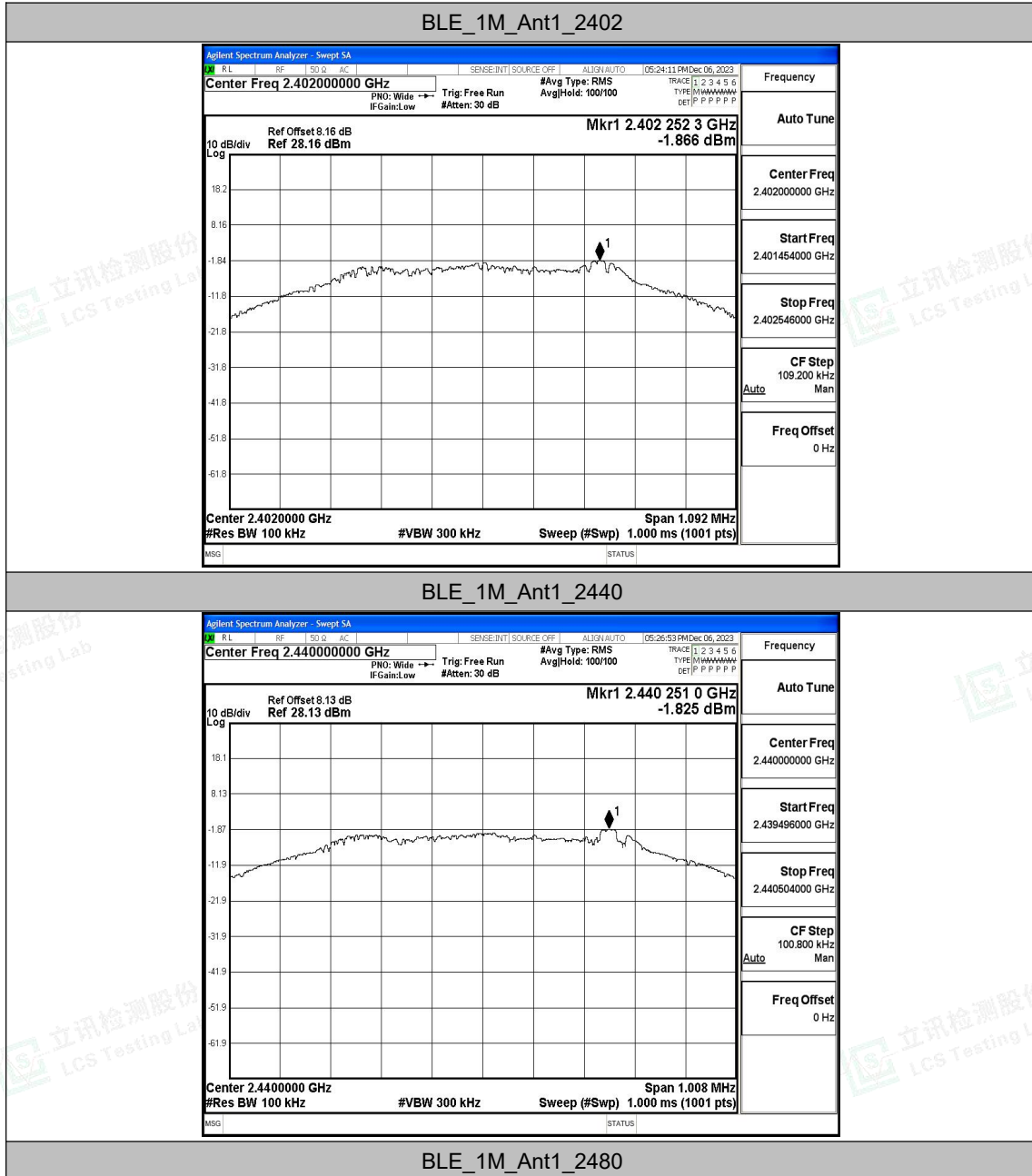
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.87	-49.27	≤-21.87	PASS
		High	2480	-2.58	-50.02	≤-22.58	PASS

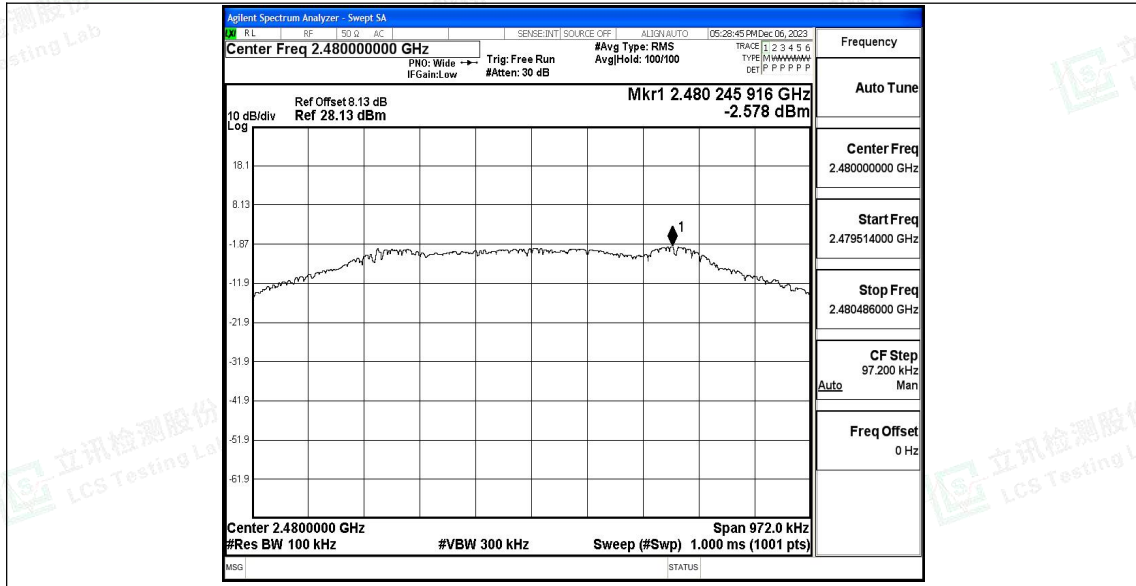




### Reference level measurement

### 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

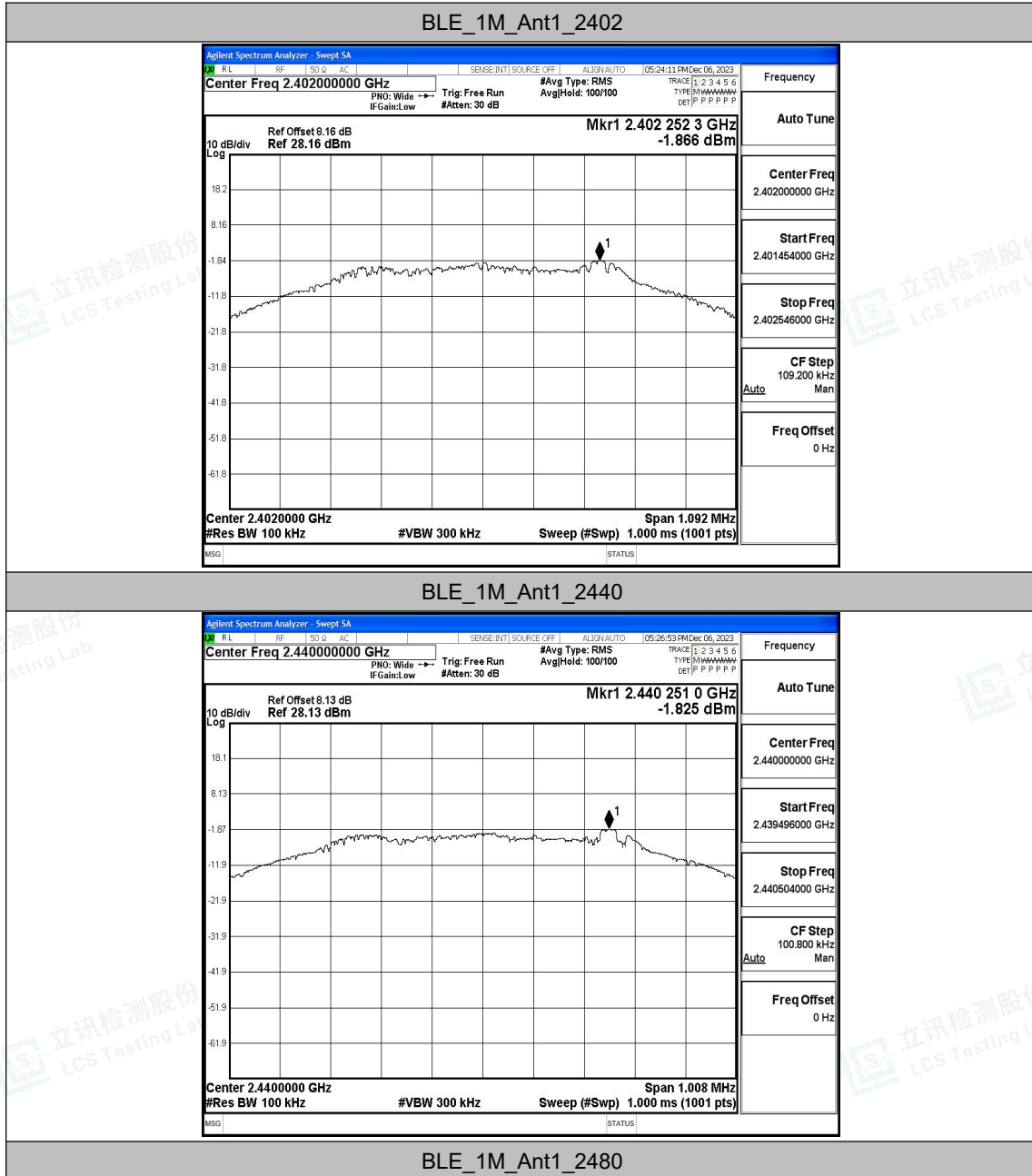
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-1.87	-61.36	≤-21.87	PASS
			1000~26500	-1.87	-48.65	≤-21.87	PASS
		2440	30~1000	-1.83	-61.46	≤-21.83	PASS
			1000~26500	-1.83	-49.12	≤-21.83	PASS
		2480	30~1000	-2.58	-61.84	≤-22.58	PASS
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



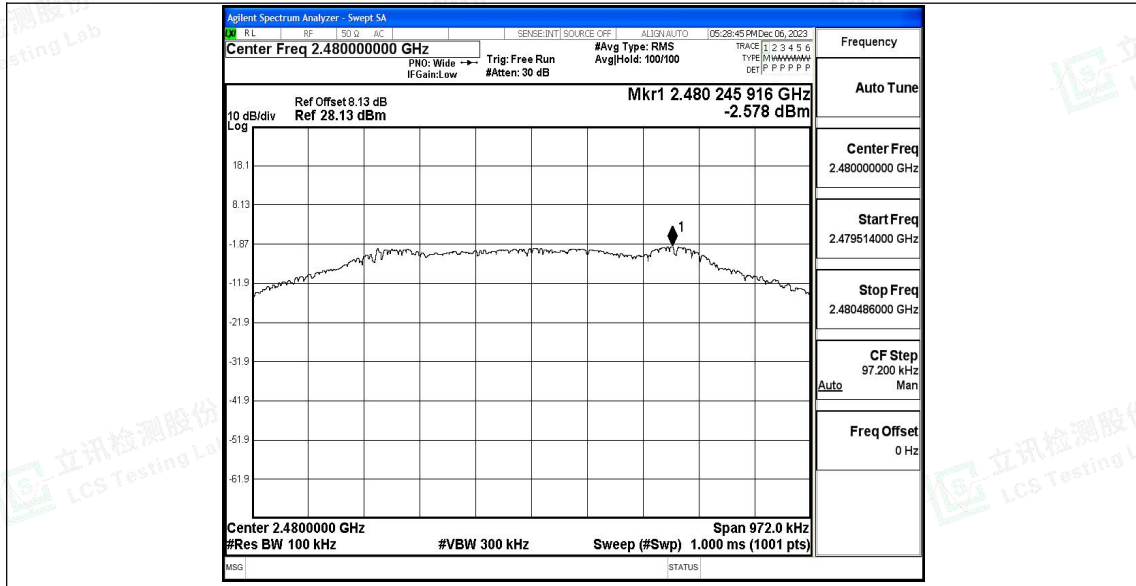


### Reference level measurement

### Test Graphs



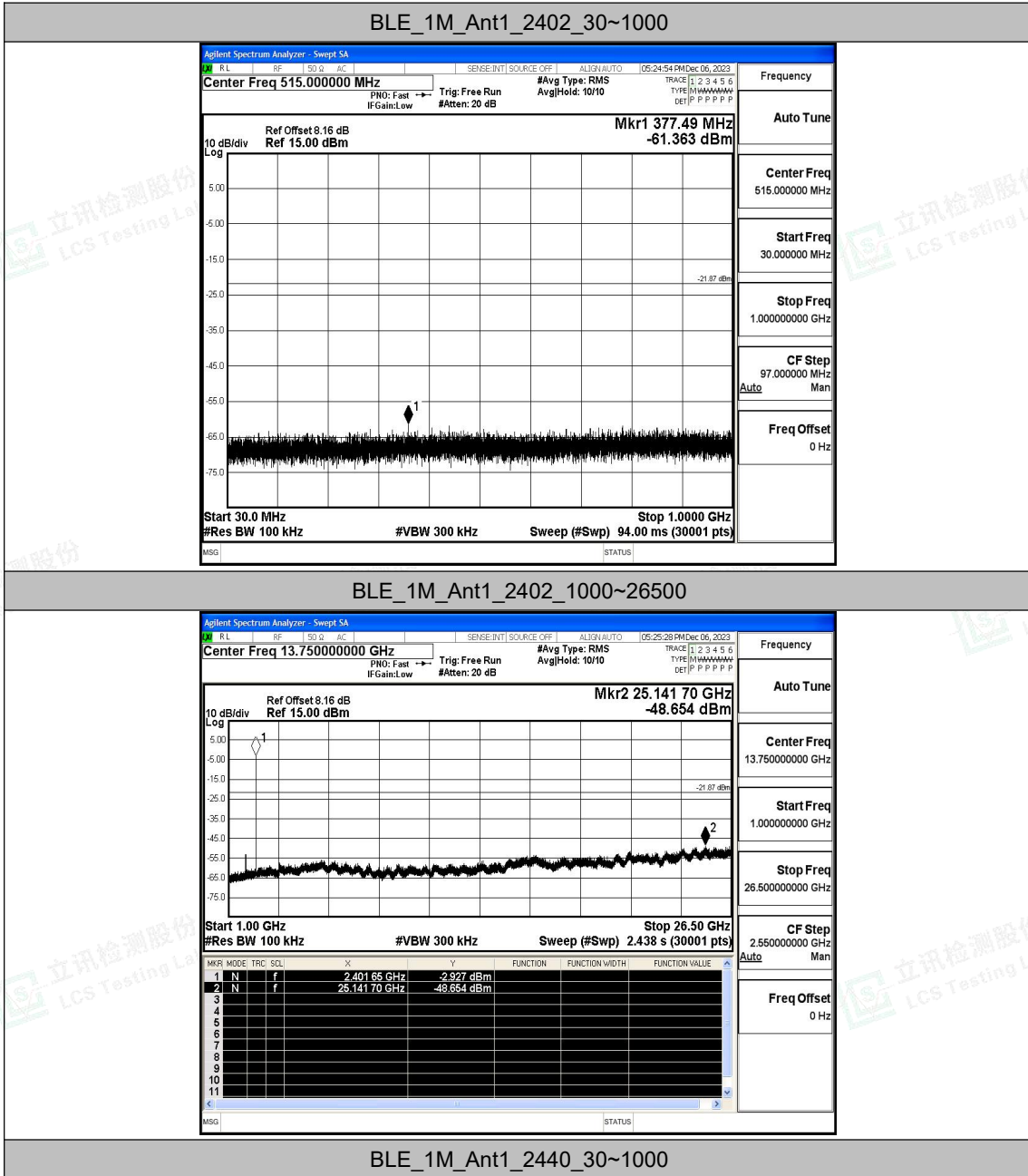


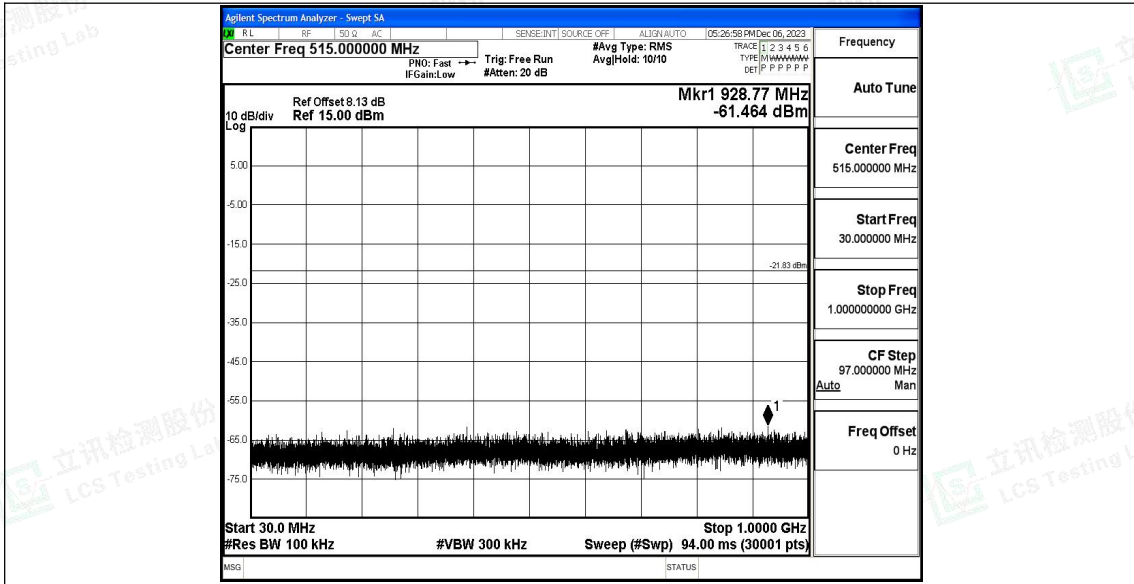




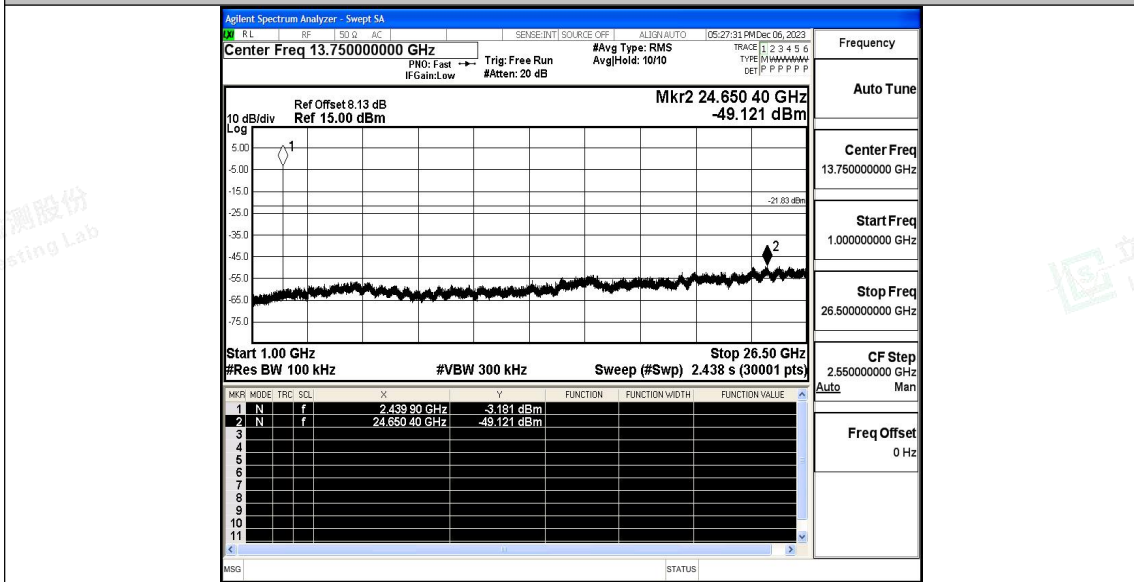
### Conducted Spurious Emission

### Test Graphs



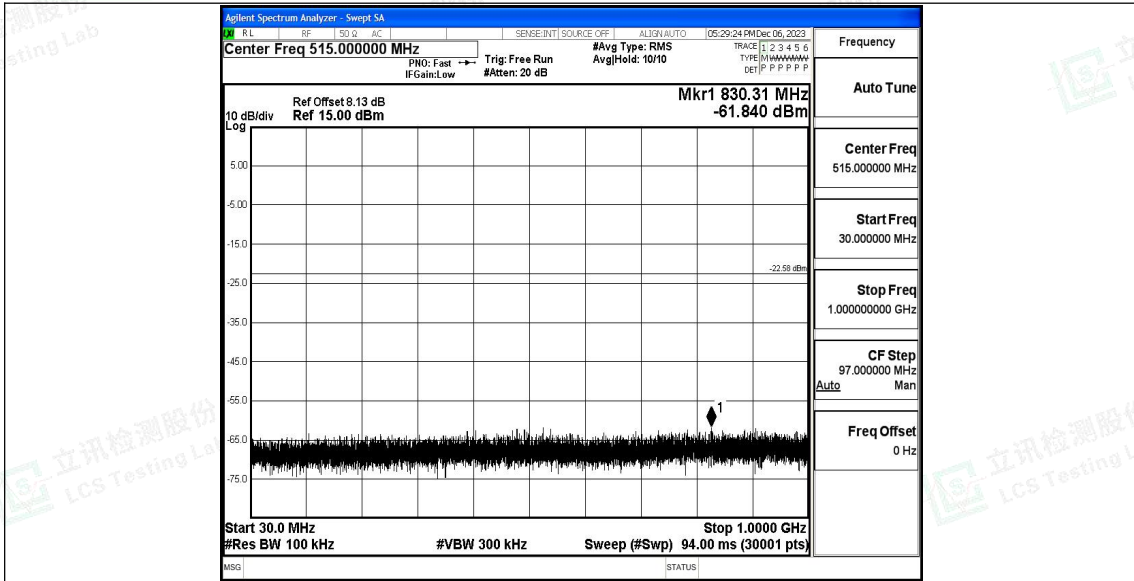


BLE\_1M\_Ant1\_2440\_1000~26500

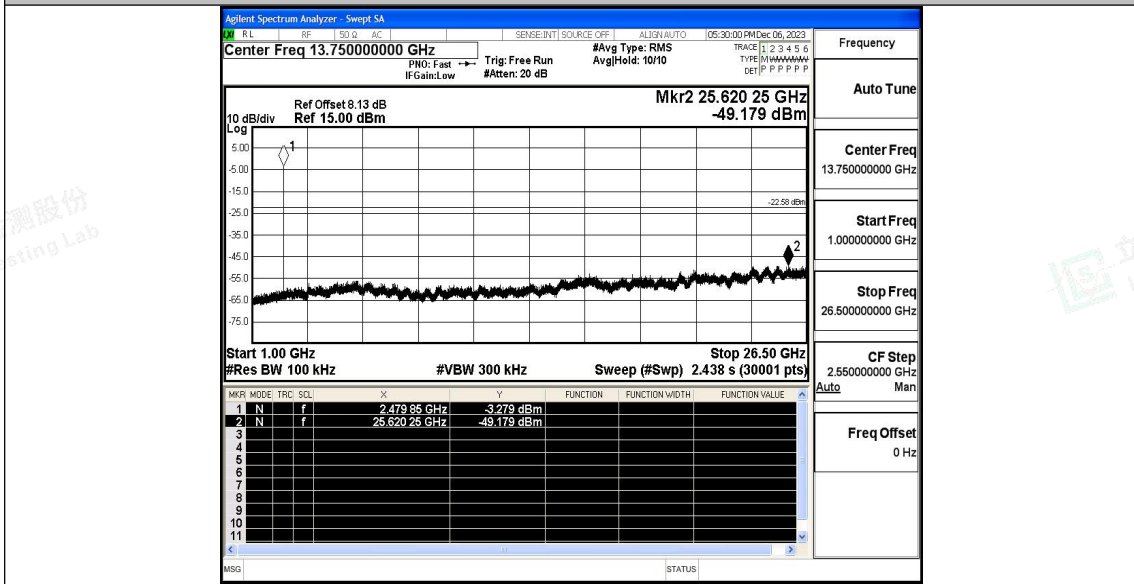


BLE\_1M\_Ant1\_2480\_30~1000





BLE\_1M\_Ant1\_2480\_1000~26500





## B.6 Duty Cycle

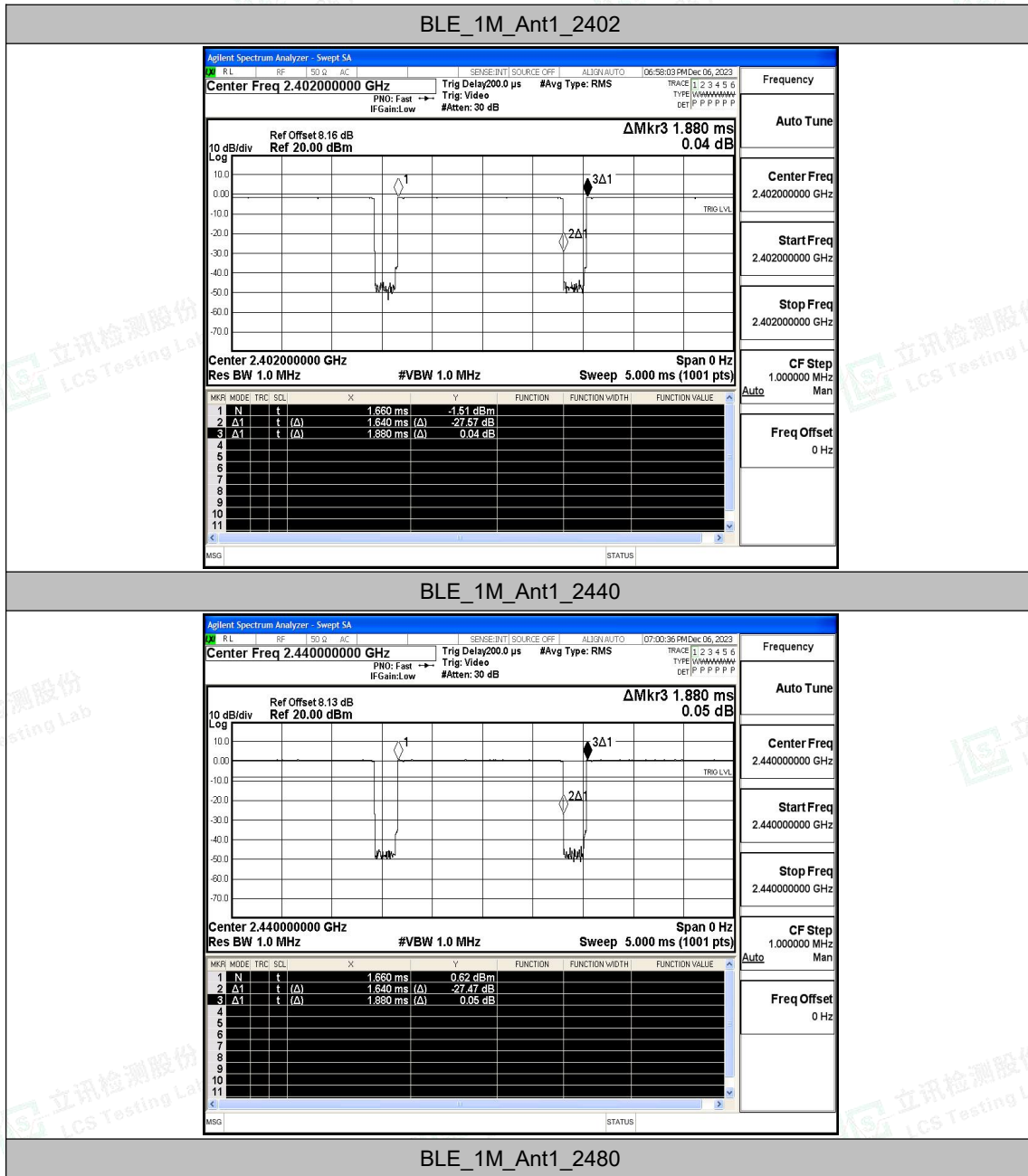
### Test Result

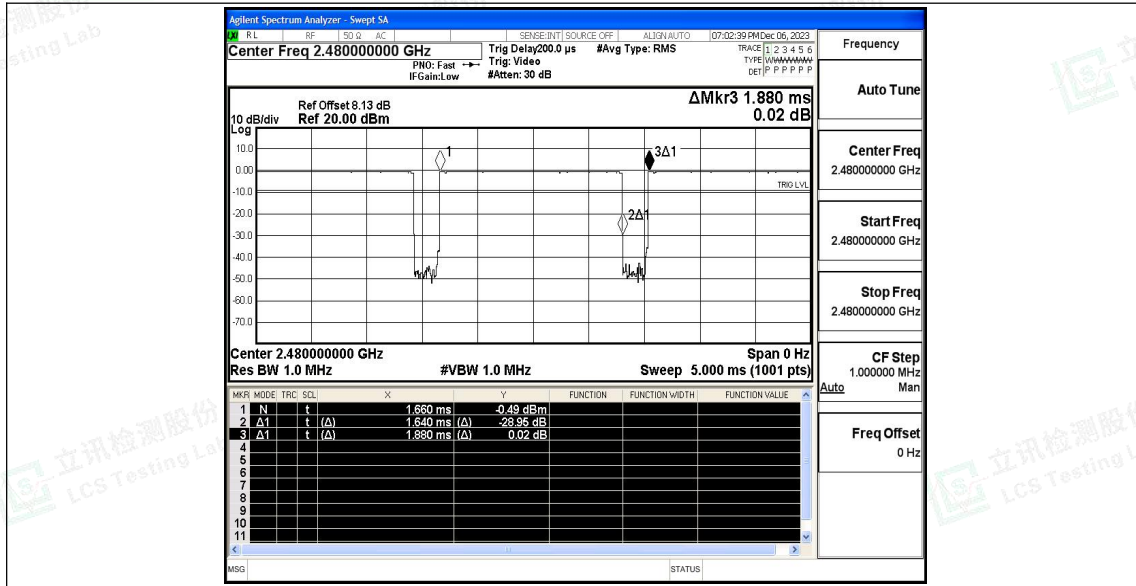
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T
BLE_1M	Ant1	2402	1.64	1.88	0.8723	87.23	0.59	0.61
		2440	1.64	1.88	0.8723	87.23	0.59	0.61
		2480	1.64	1.88	0.8723	87.23	0.59	0.61





### 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:

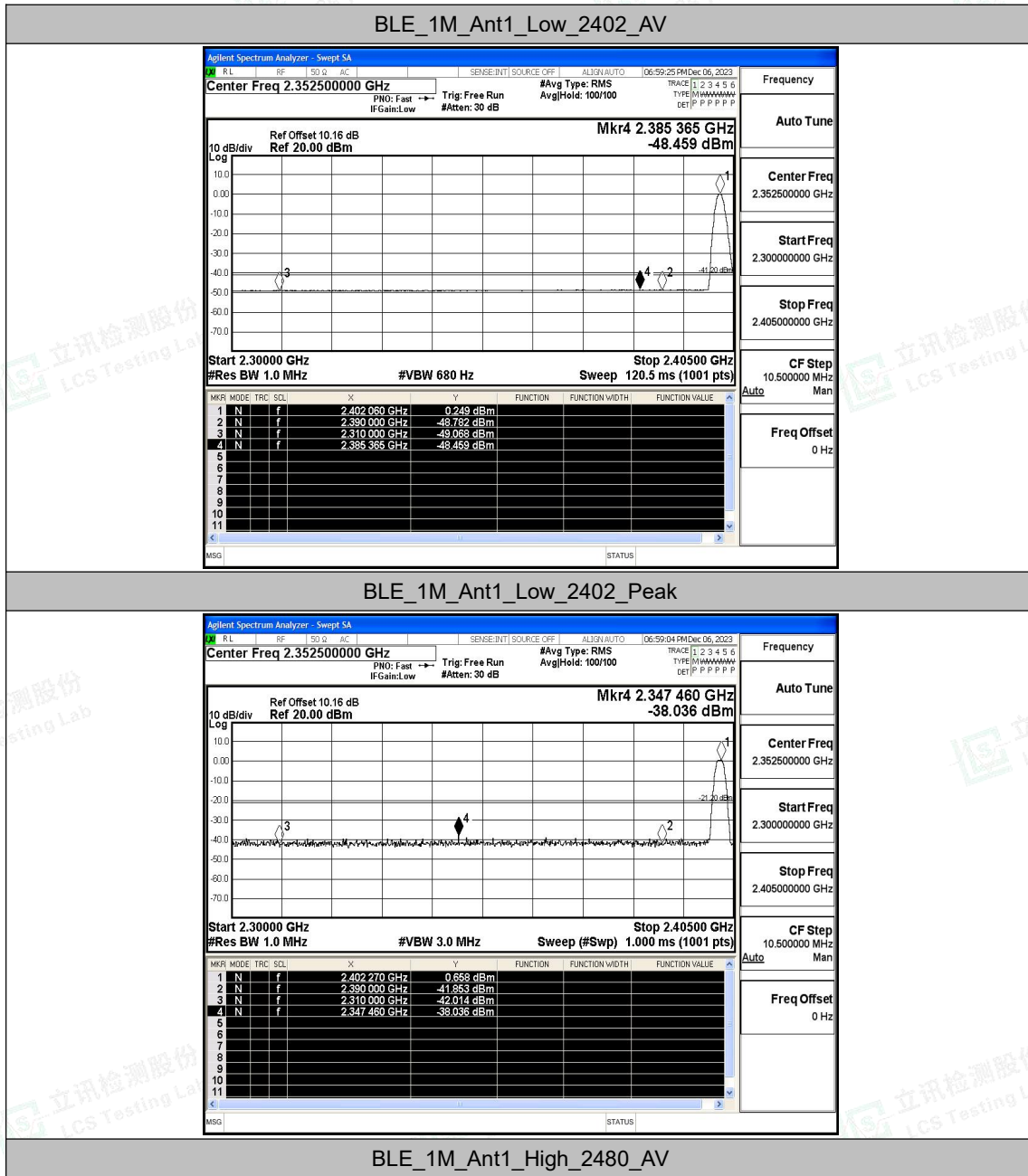
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

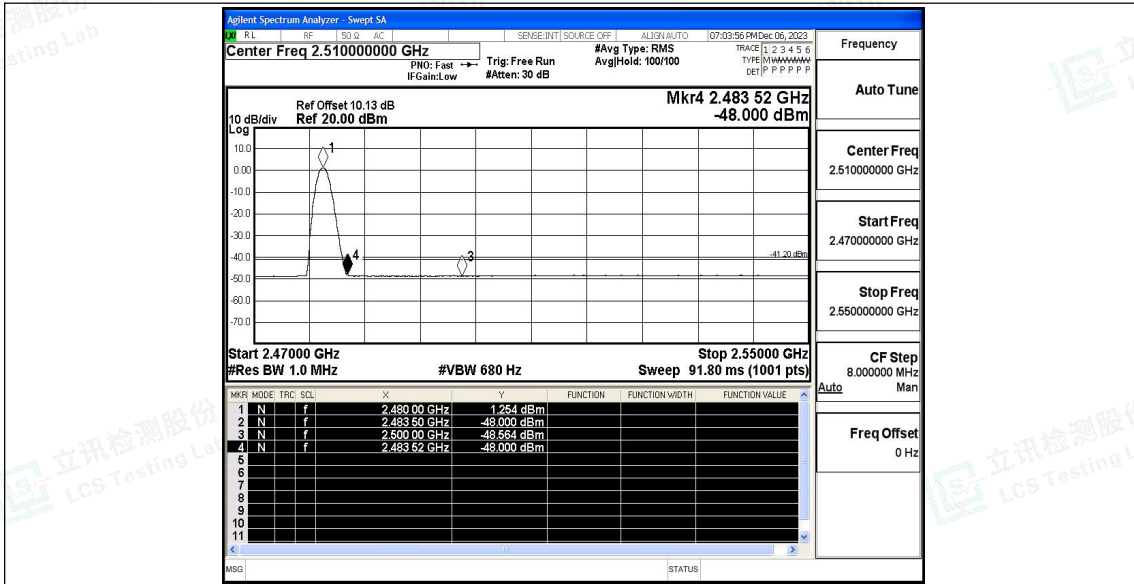






### Test Graphs





BLE\_1M\_Ant1\_High\_2480\_Peak

