



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Tablet

Test Model: RT1

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





B.1 6dB Bandwidth

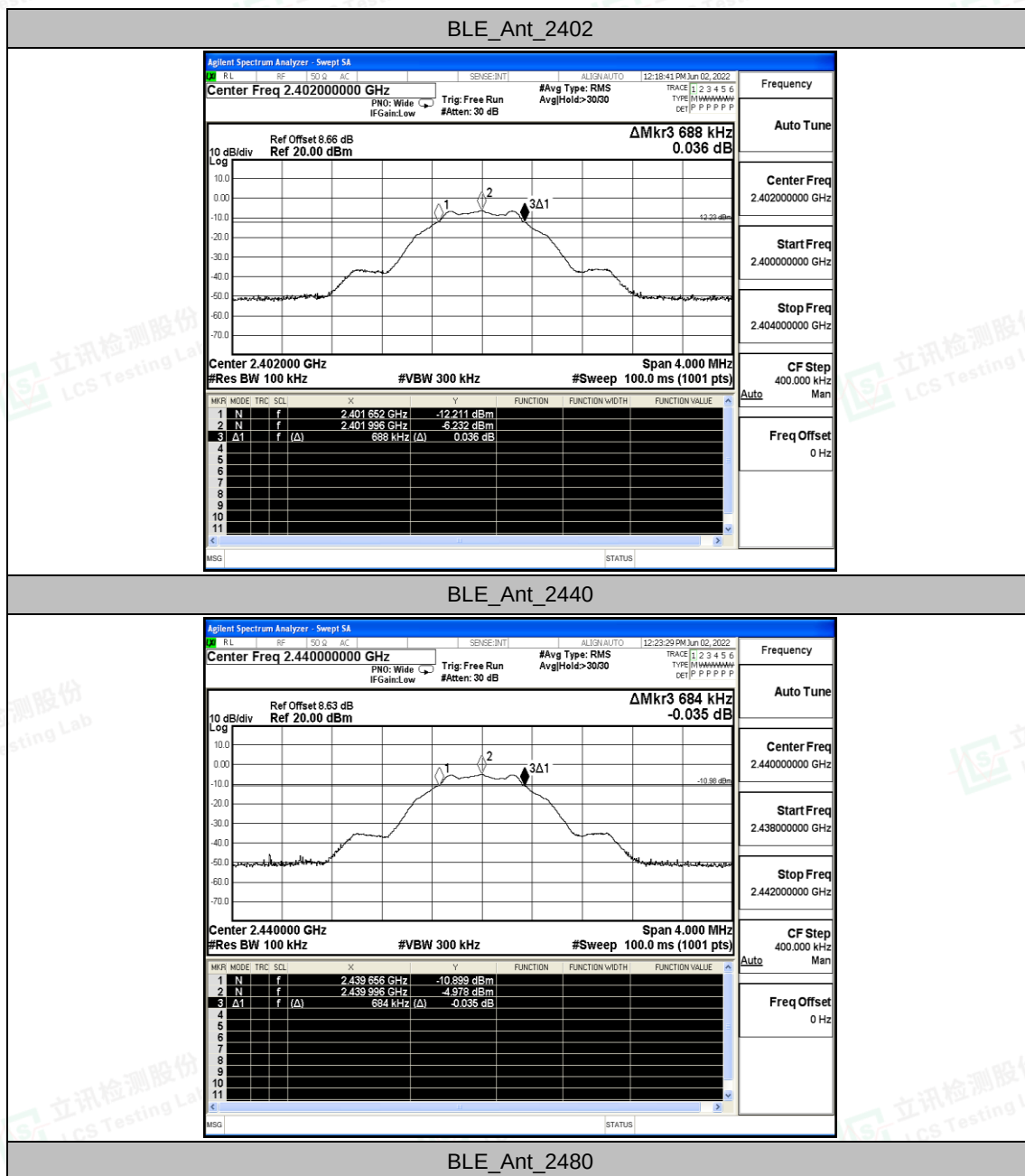
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.688	2401.652	2402.340	0.5	PASS
		2440	0.684	2439.656	2440.340	0.5	PASS
		2480	0.692	2479.648	2480.340	0.5	PASS





Test Graphs





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B.2 Maximum conducted output power

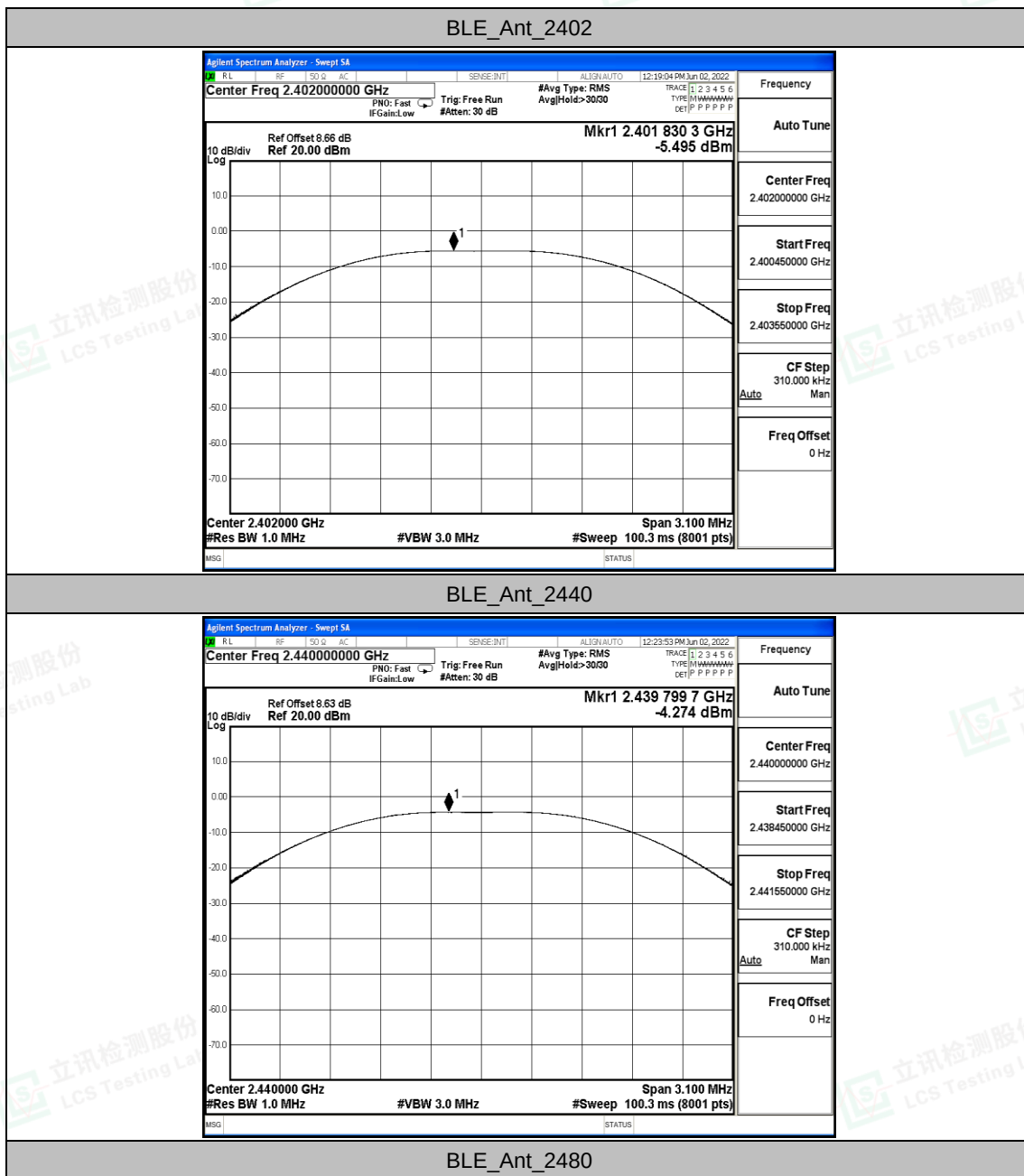
Test Result

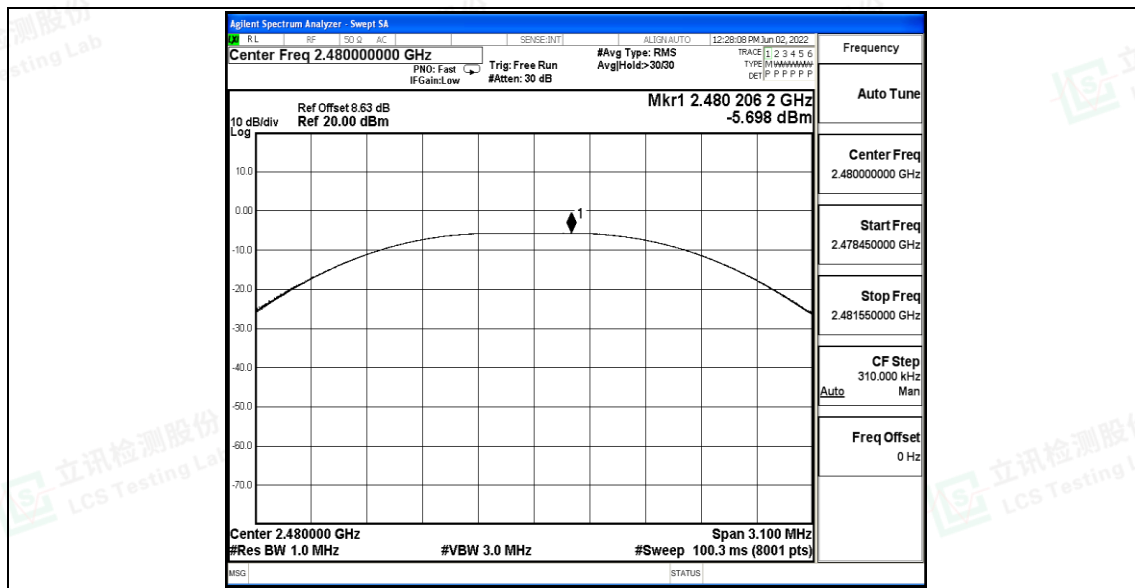
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	-5.5	≤30	PASS
		2440	-4.27	≤30	PASS
		2480	-5.7	≤30	PASS





Test Graphs







B.3 Maximum power spectral density

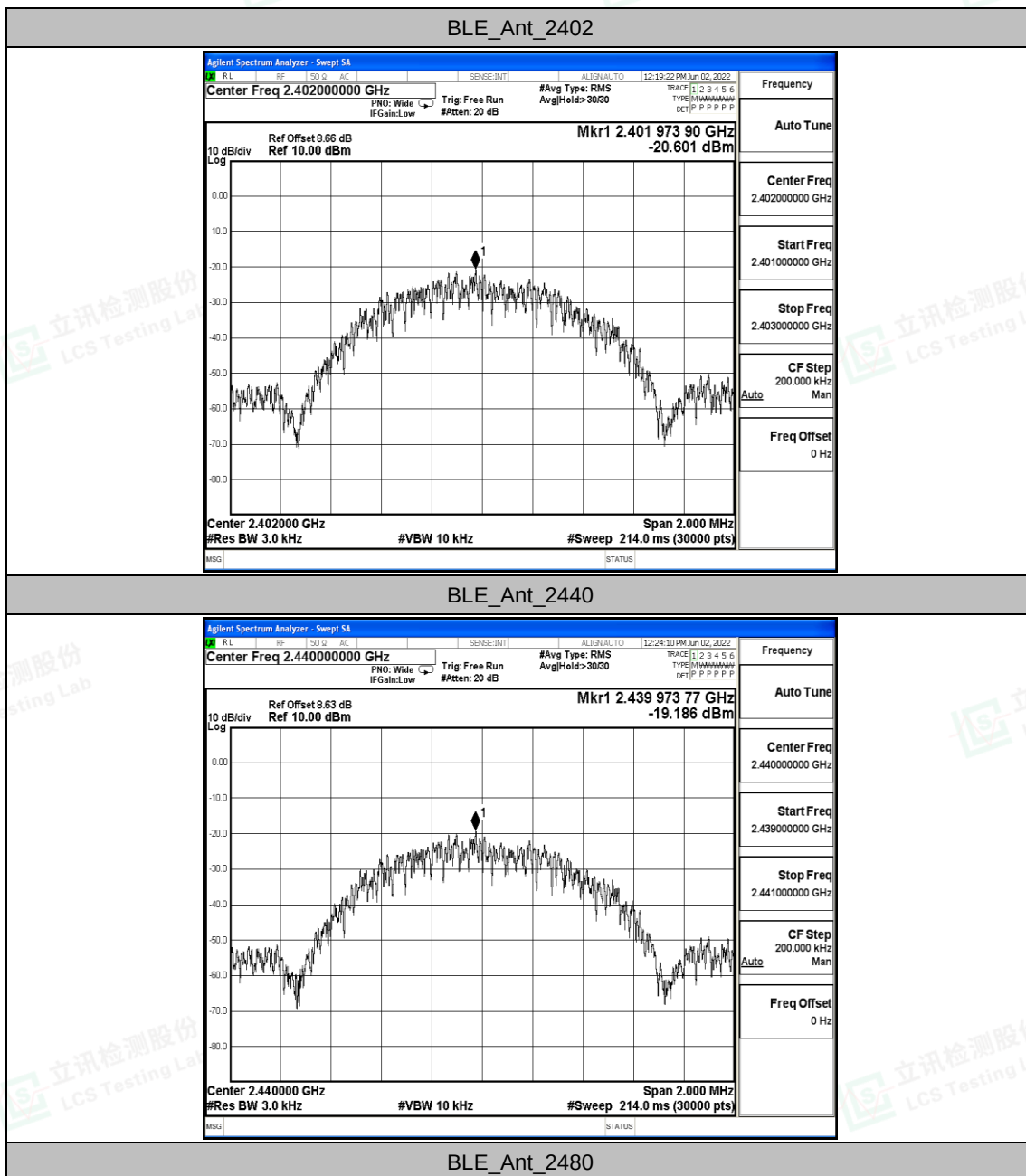
Test Result

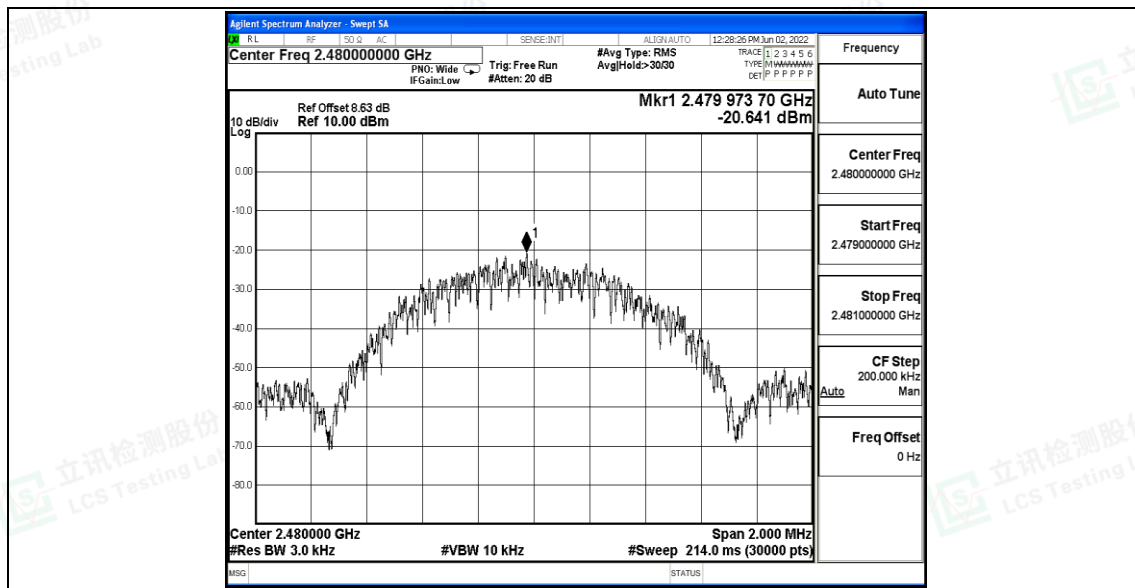
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-20.6	≤8.00	PASS
		2440	-19.19	≤8.00	PASS
		2480	-20.64	≤8.00	PASS





Test Graphs







B.4 Band edge measurements

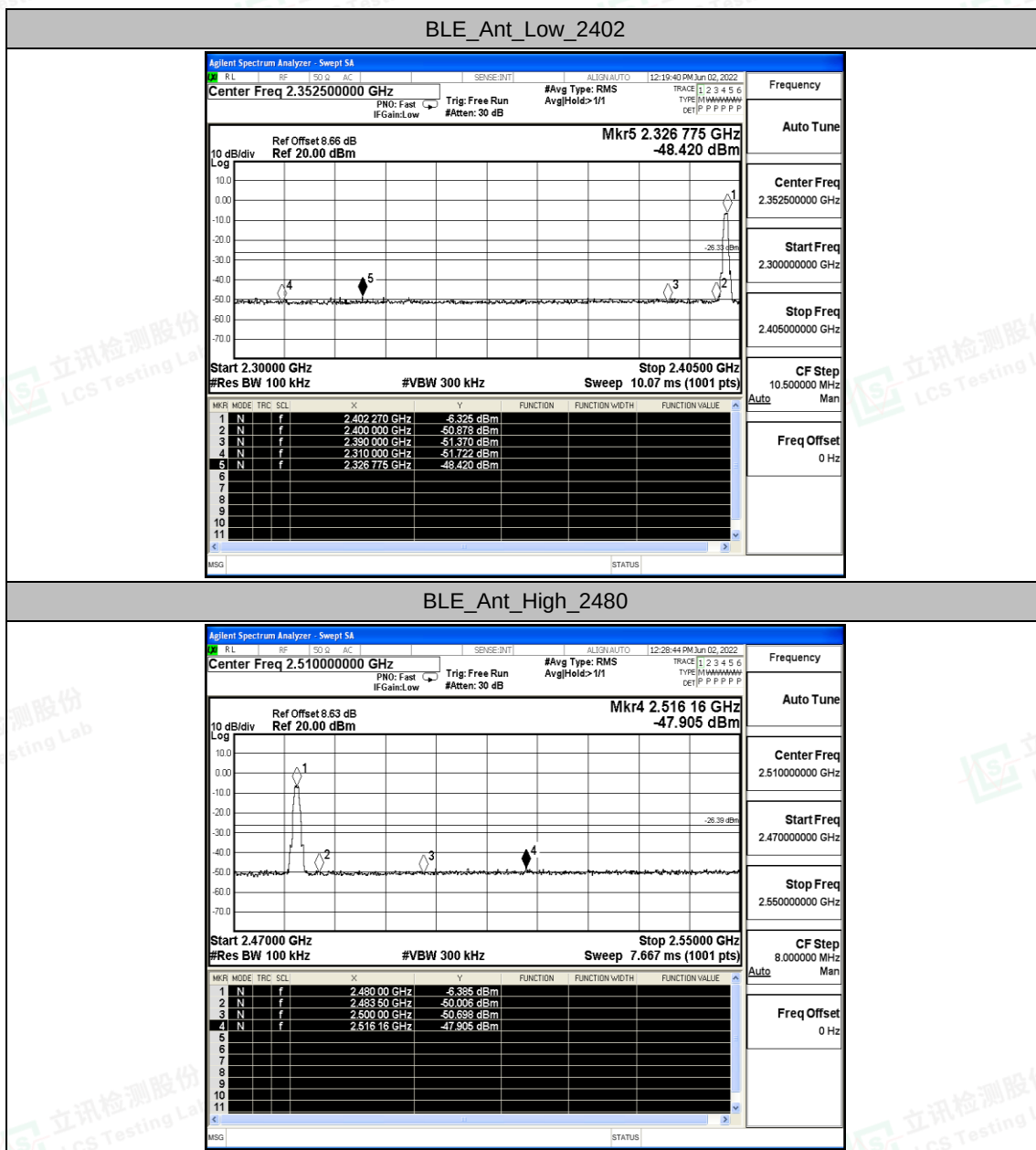
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-6.33	-48.42	≤ -26.33	PASS
		High	2480	-6.39	-47.91	≤ -26.39	PASS





Test Graphs



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B.5 Conducted Spurious Emission

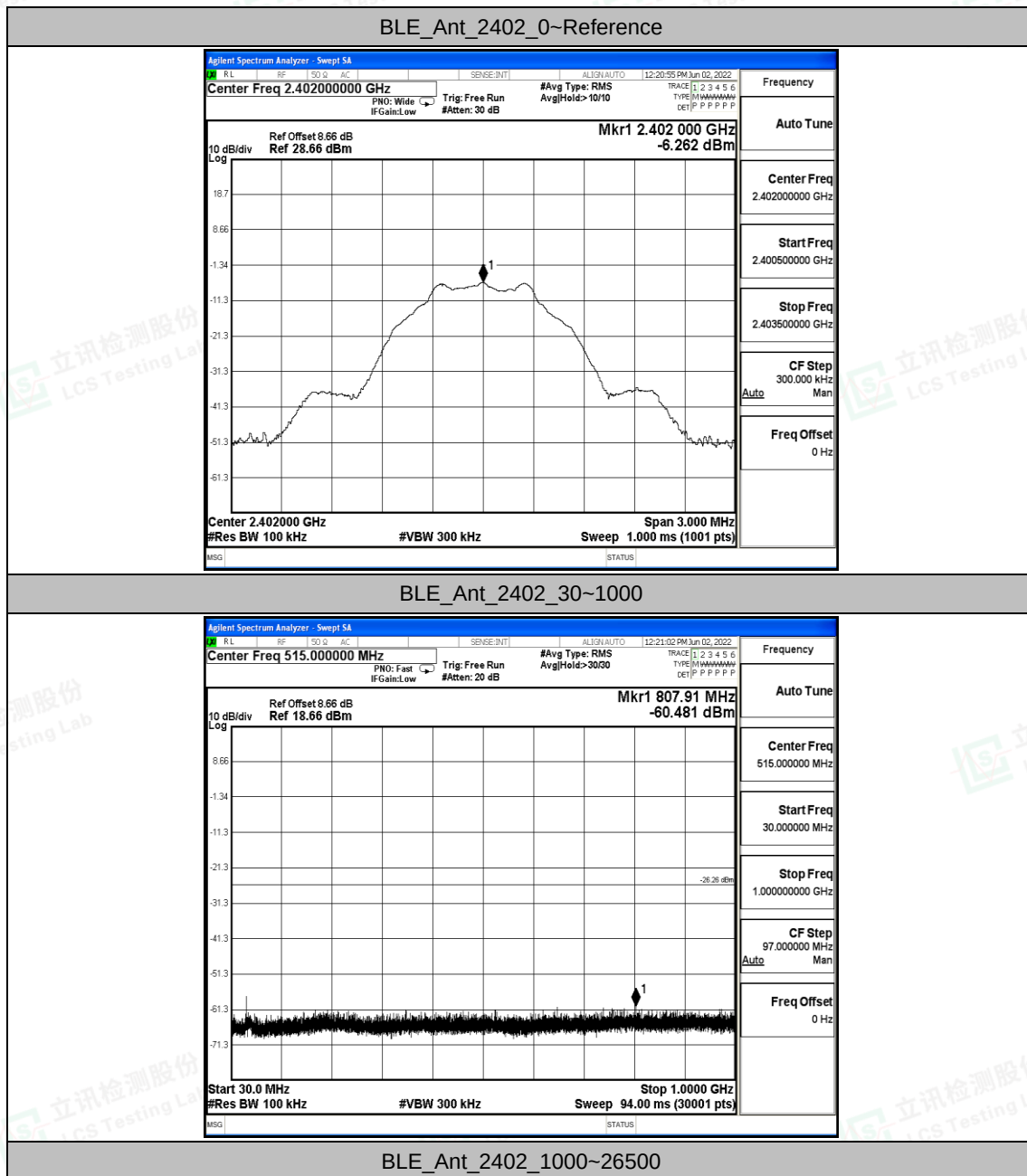
Test Result

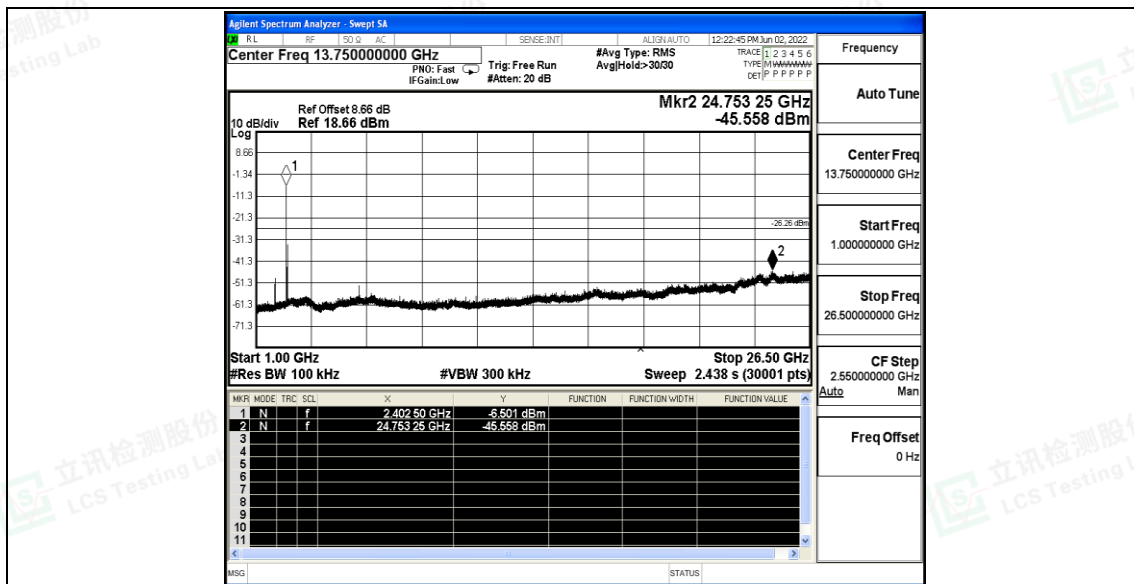
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-6.26	-6.26	---	PASS
			30~1000	-6.26	-60.48	≤-26.26	PASS
			1000~26500	-6.26	-45.56	≤-26.26	PASS
		2440	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-60.87	≤-24.98	PASS
			1000~26500	-4.98	-43.24	≤-24.98	PASS
		2480	Reference	-6.47	-6.47	---	PASS
			30~1000	-6.47	-60.46	≤-26.47	PASS
			1000~26500	-6.47	-46.27	≤-26.47	PASS



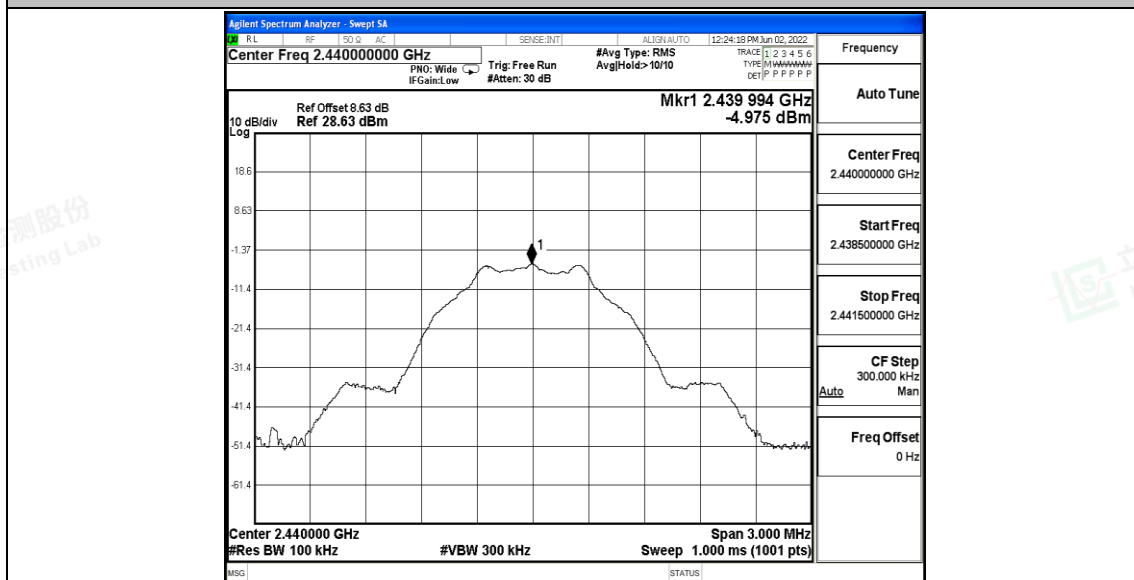


Test Graphs





BLE_Ant_2440_0~Reference



BLE_Ant_2440_30~1000

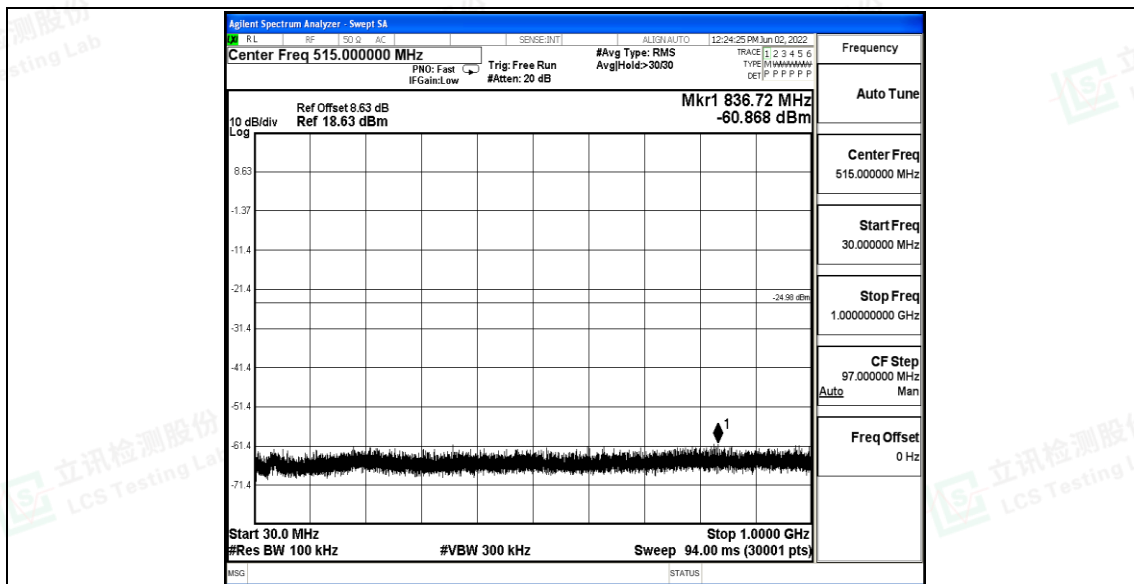


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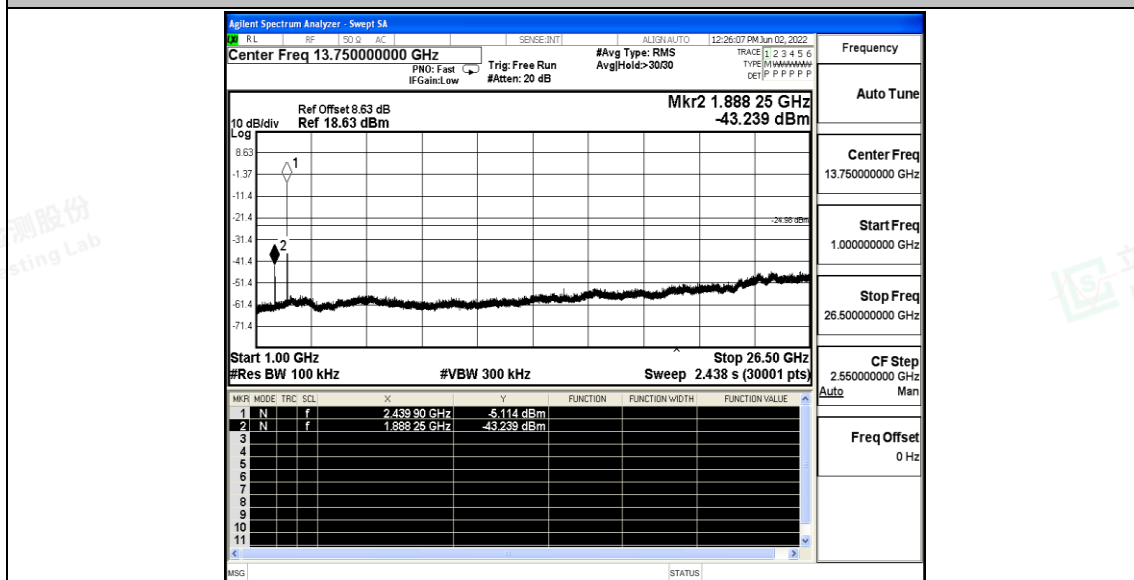
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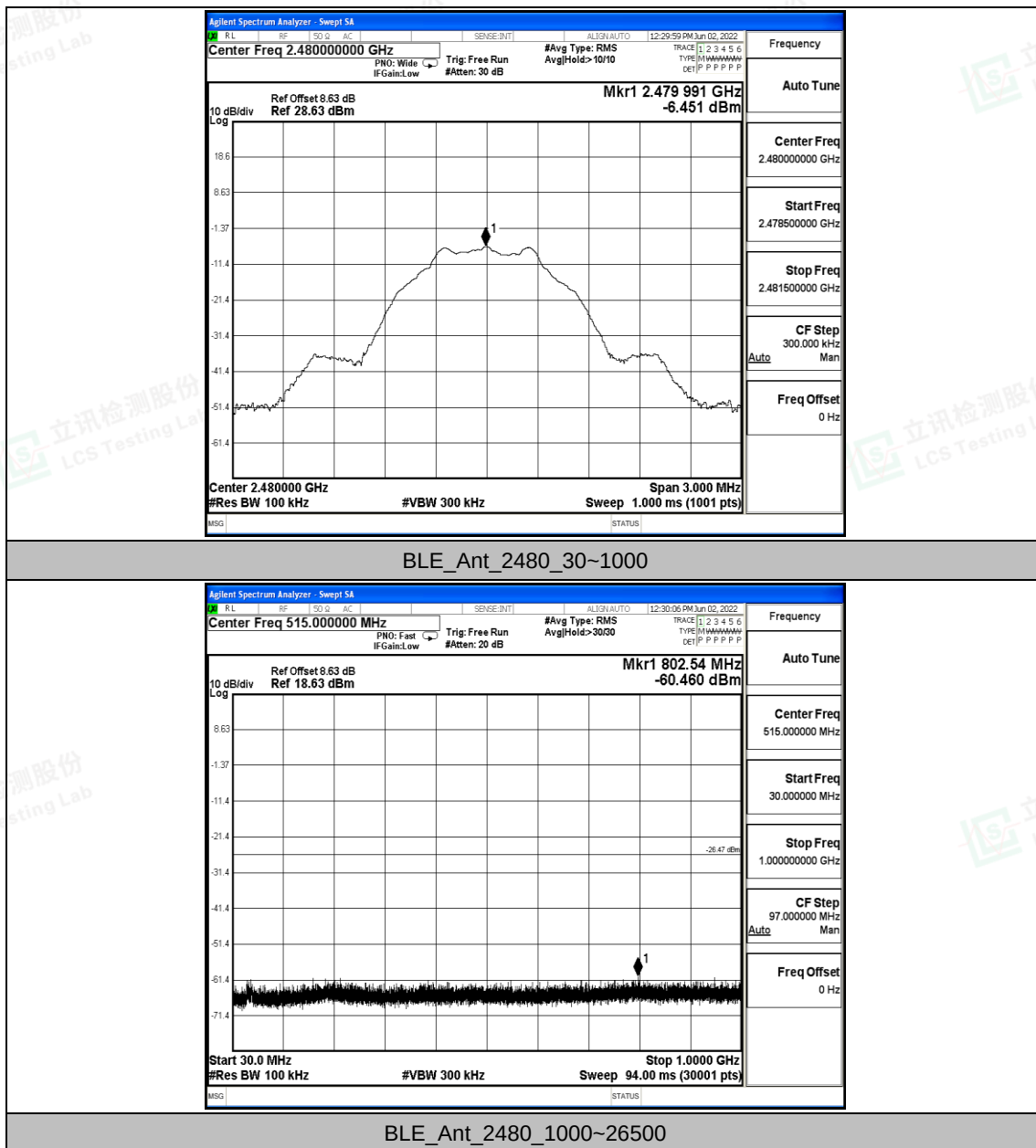


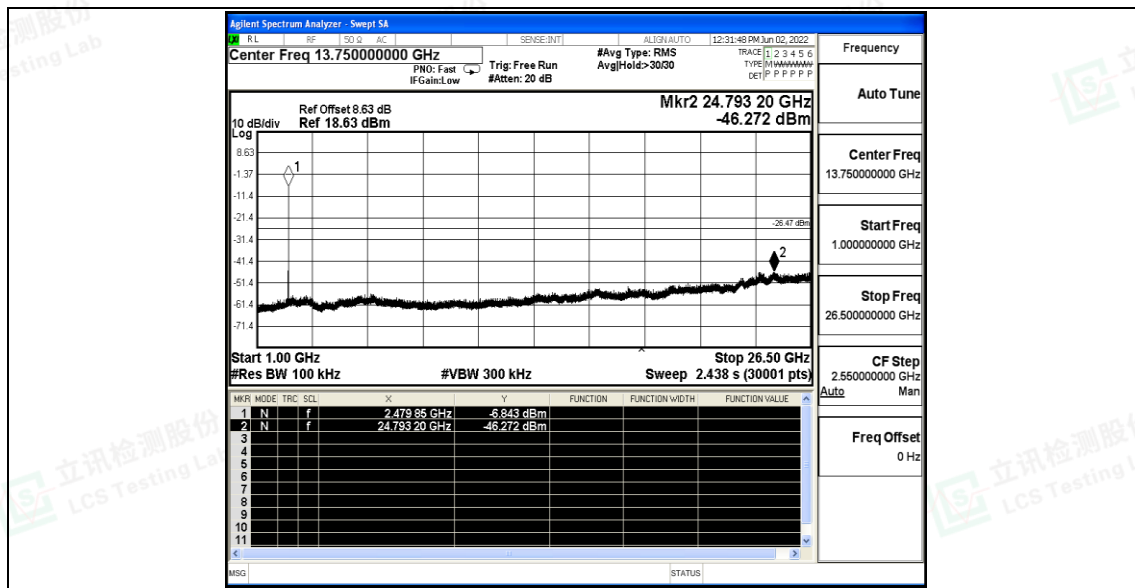
BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference









B.6 Duty Cycle

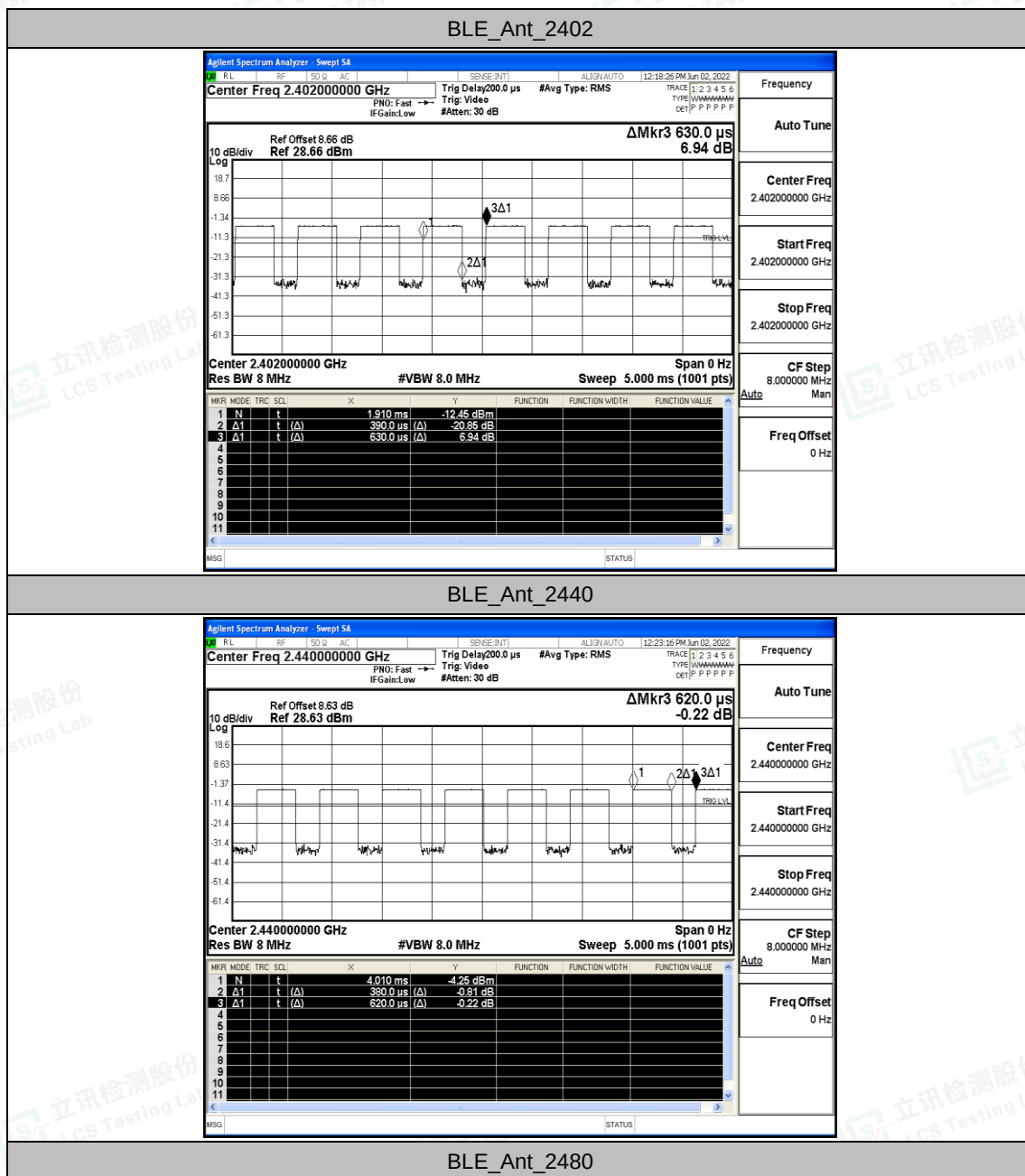
Test Result

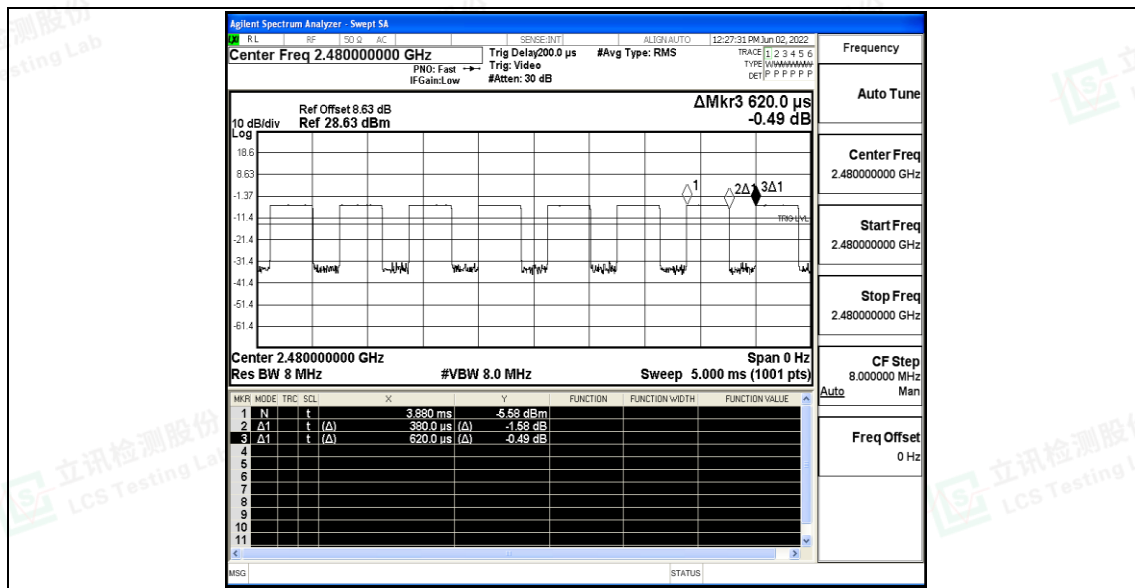
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2440	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	2.63	---	---





Test Graphs





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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	Ant	Low	2402	AV	2310.000	-47.58	≤-41.20	47.62	≤54	PASS
				AV	2385.260	-46.76	≤-41.20	48.44	≤54	PASS
				AV	2390.000	-46.91	≤-41.20	48.29	≤54	PASS
				Peak	2310.000	-38.16	≤-21.20	57.04	≤74	PASS
				Peak	2329.400	-36.08	≤-21.20	59.12	≤74	PASS
				Peak	2390.000	-38.35	≤-21.20	56.85	≤74	PASS
		High	2480	AV	2483.500	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2498.960	-46.27	≤-41.20	48.93	≤54	PASS
				AV	2500.000	-46.67	≤-41.20	48.53	≤54	PASS
				Peak	2483.500	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2492.400	-36.2	≤-21.20	59.00	≤74	PASS
				Peak	2500.000	-38.04	≤-21.20	57.16	≤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.



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