



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Kid tablet PC

Test Model: AT70K

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



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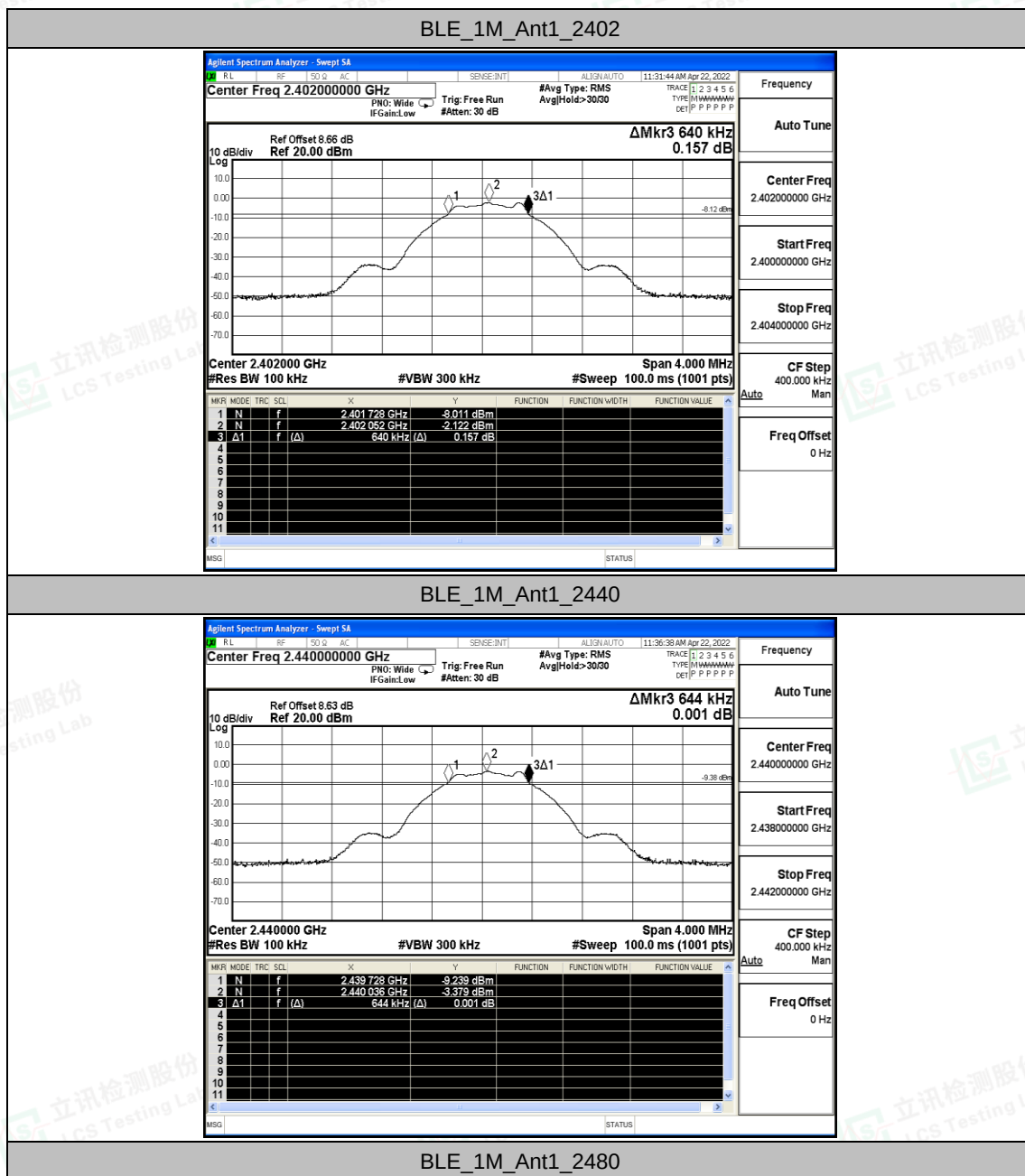
A.1 6dB Bandwidth

Test Result

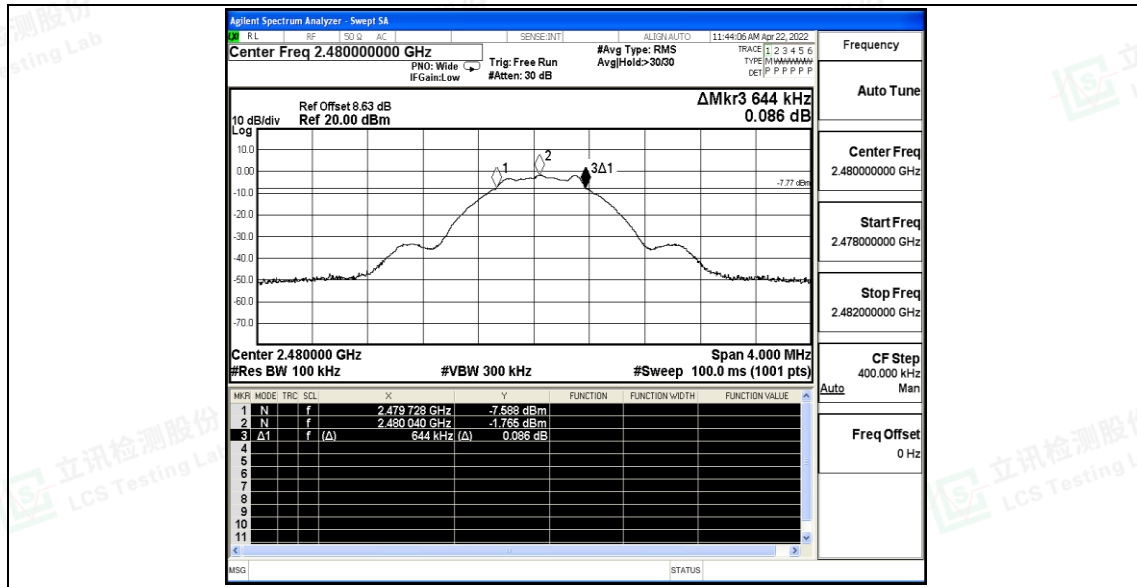
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.728	2402.368	0.5	PASS
		2440	0.644	2439.728	2440.372	0.5	PASS
		2480	0.644	2479.728	2480.372	0.5	PASS



Test Graphs



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A.2 Occupied Channel Bandwidth

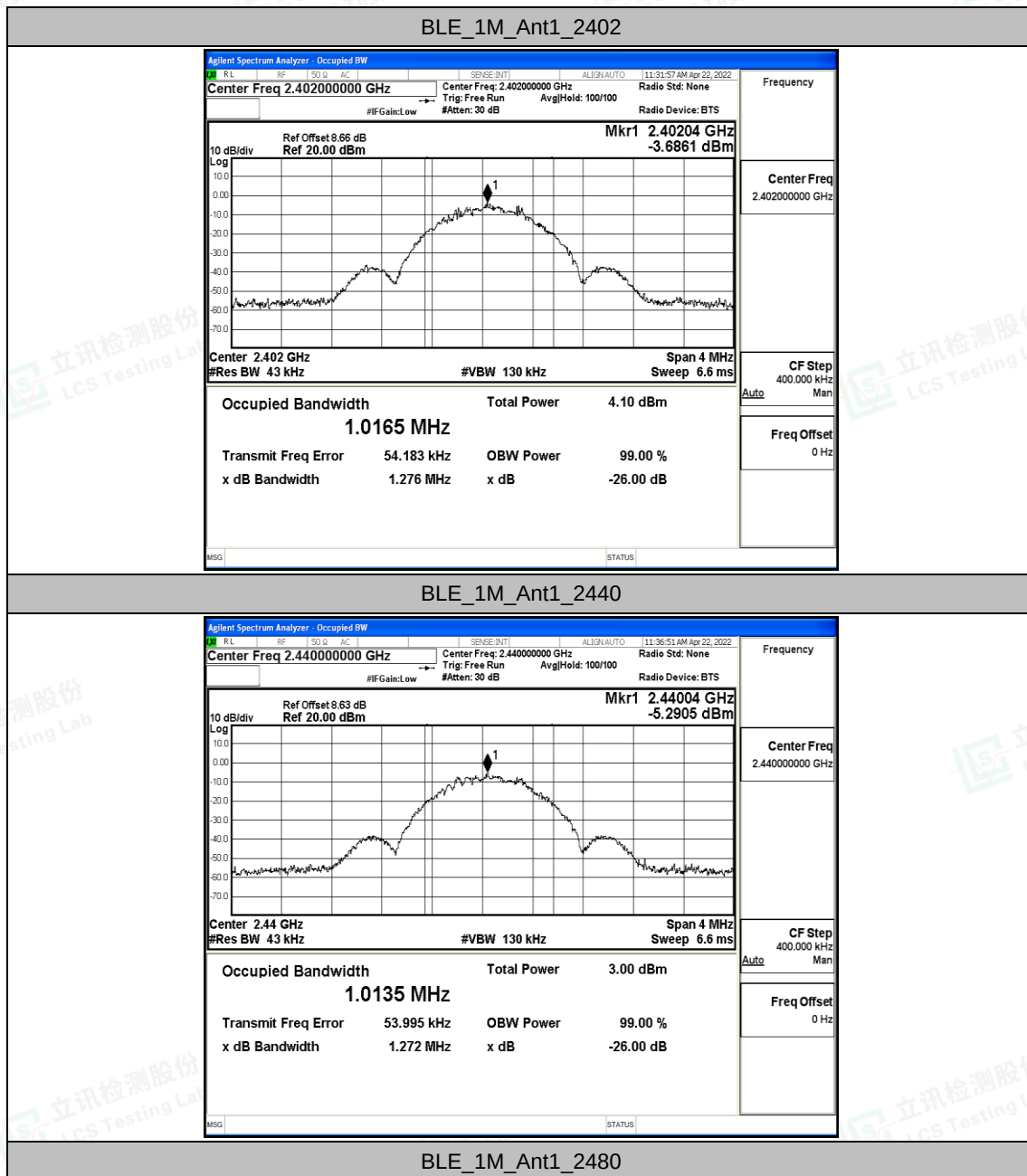
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0165	2401.546	2402.562	---	---
		2440	1.0135	2439.547	2440.561	---	---
		2480	1.0170	2479.546	2480.563	---	---





Test Graphs

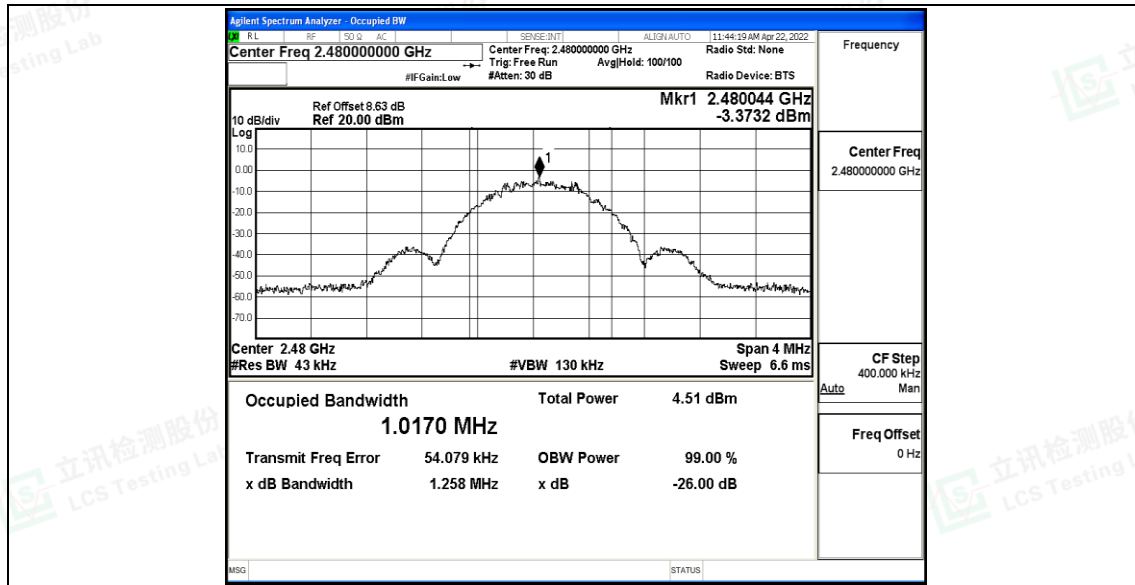


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A.3 Maximum conducted output power

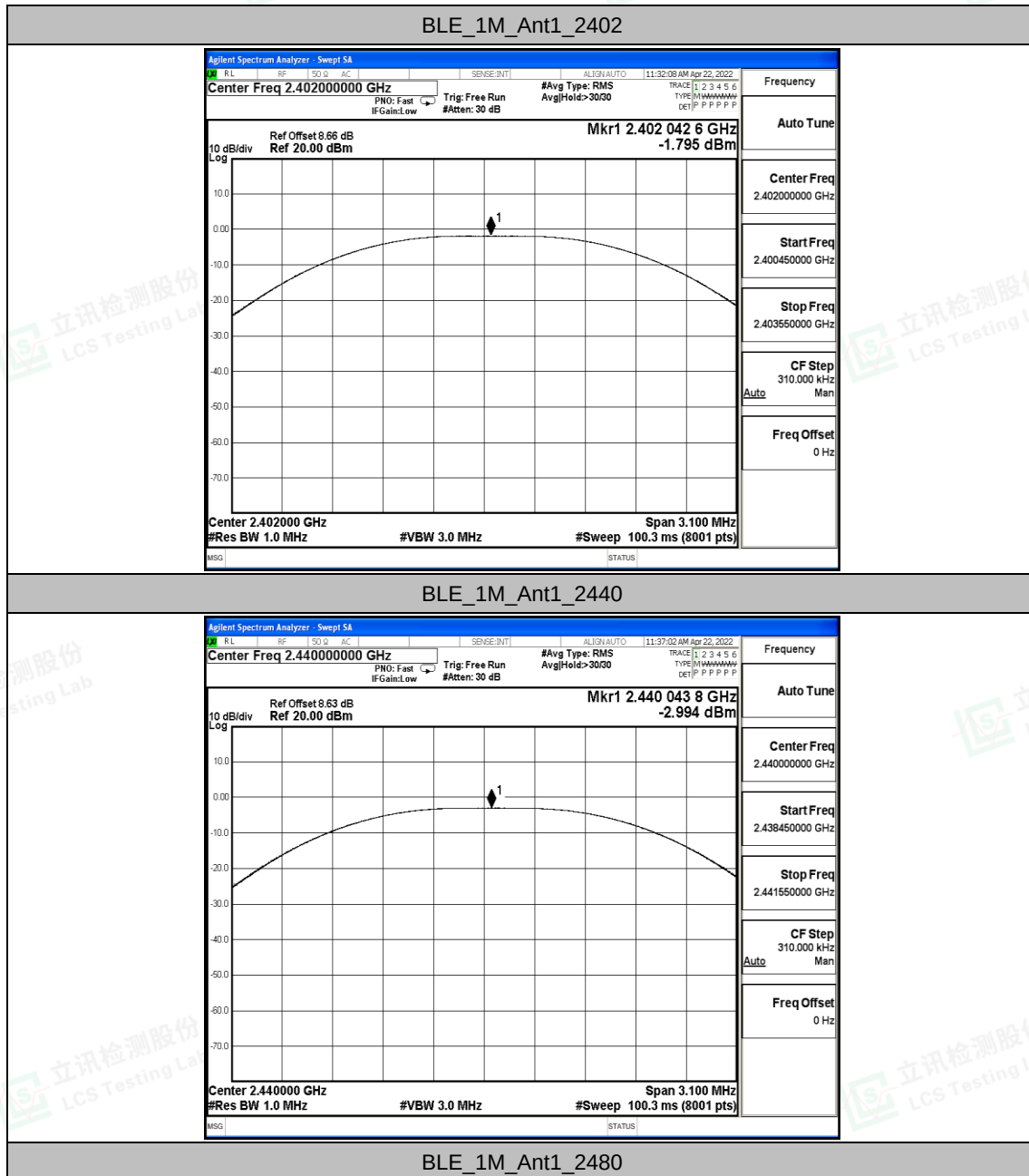
Test Result

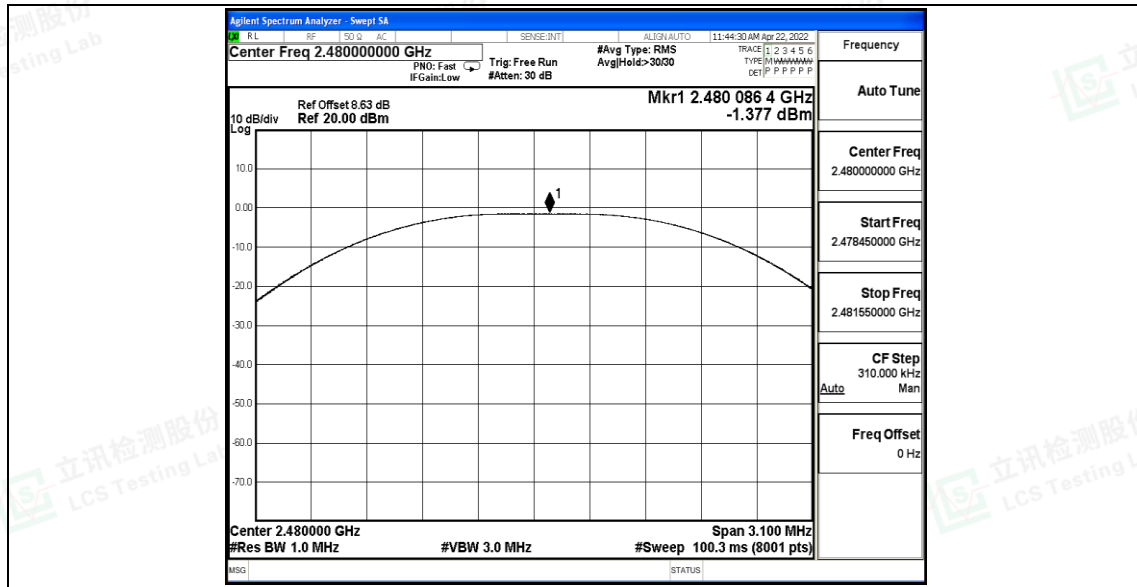
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.8	≤30	PASS
		2440	-2.99	≤30	PASS
		2480	-1.38	≤30	PASS





Test Graphs







A.4 Maximum power spectral density

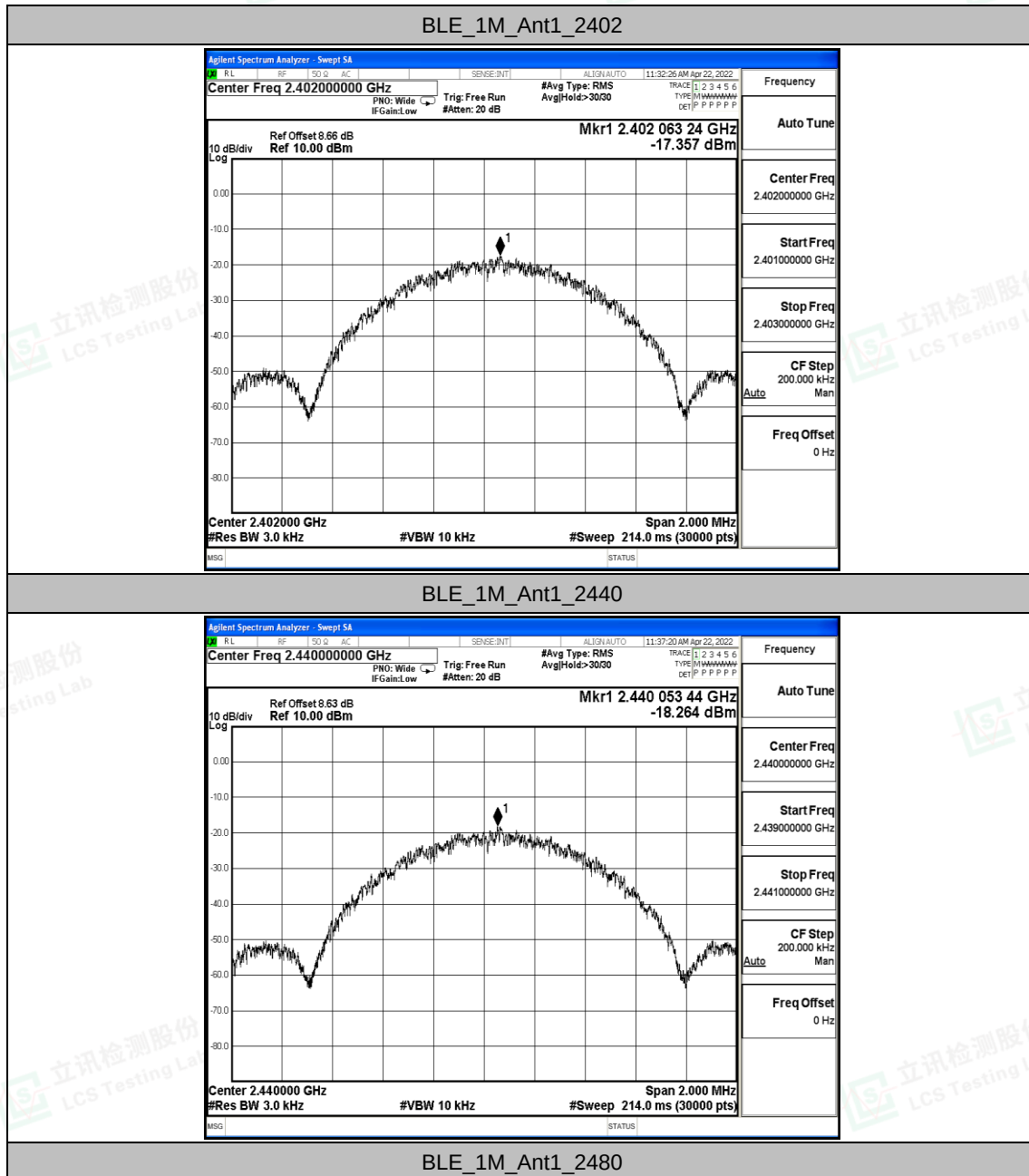
Test Result

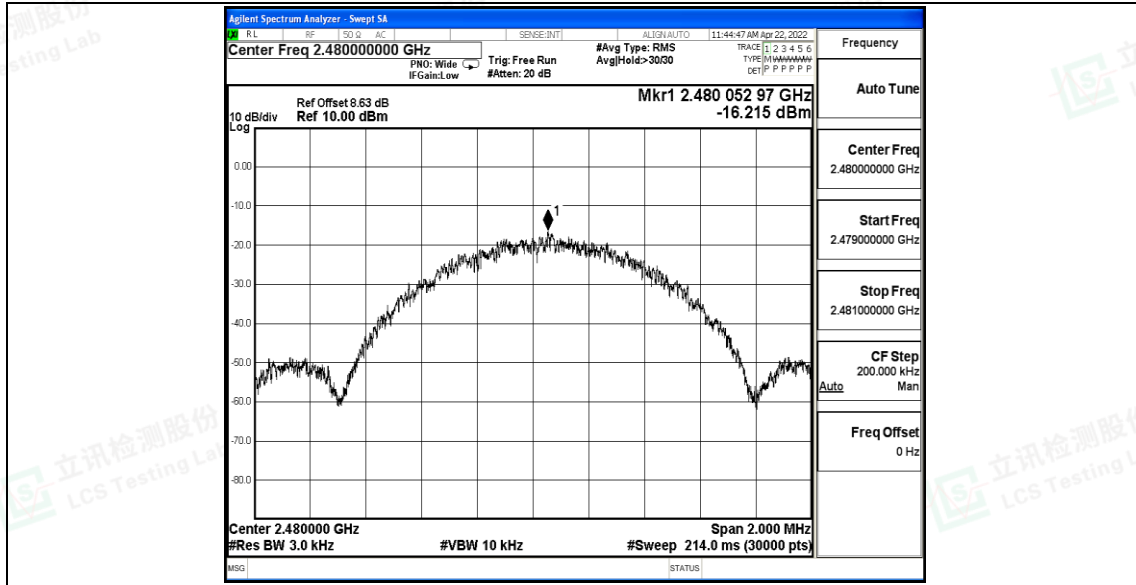
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.36	≤8.00	PASS
		2440	-18.26	≤8.00	PASS
		2480	-16.22	≤8.00	PASS





Test Graphs







A.5 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.30	-56.48	≤ -22.3	PASS
		High	2480	-2.00	-56.59	≤ -22	PASS





Test Graphs



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A.6 Conducted Spurious Emission

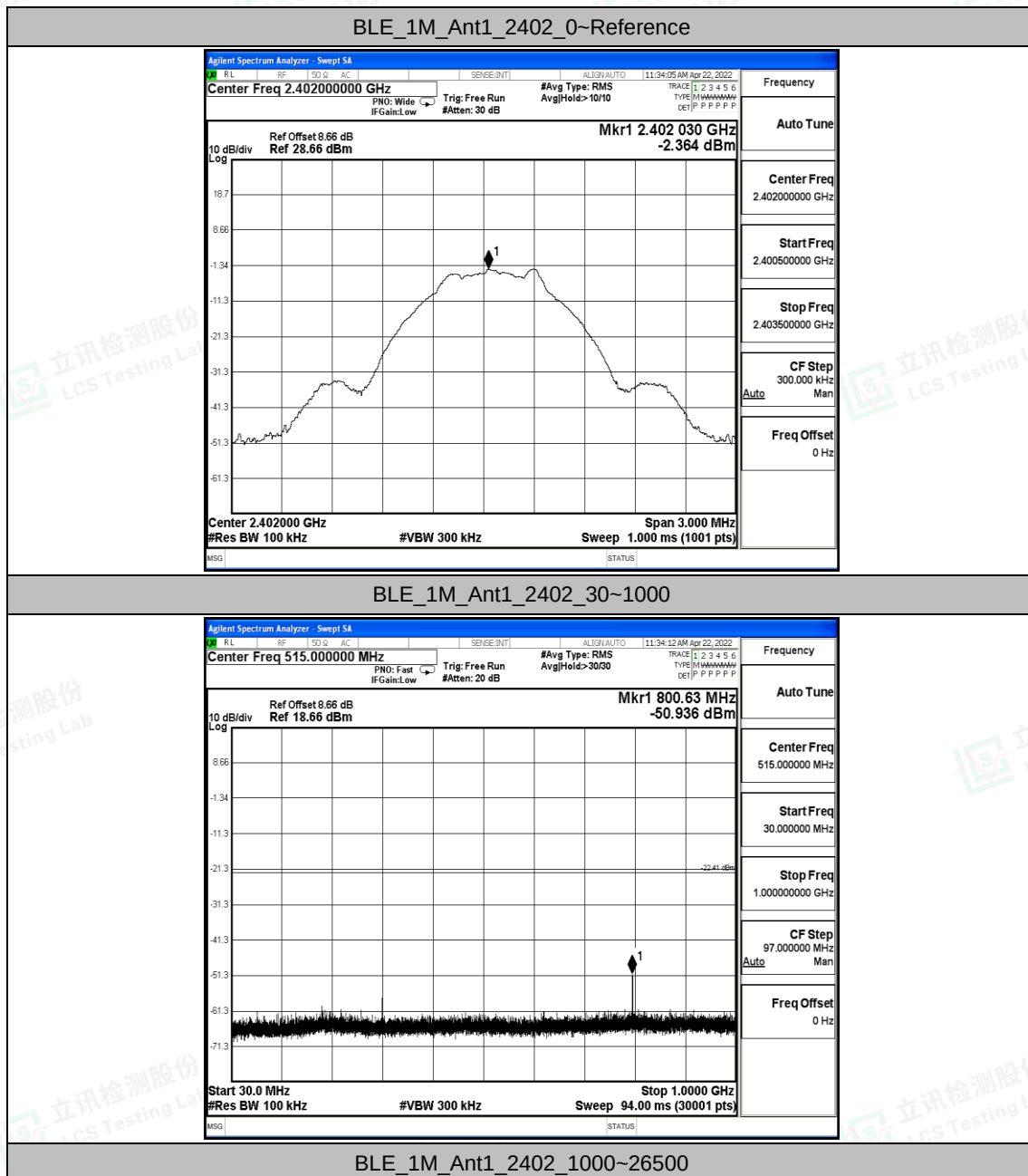
Test Result

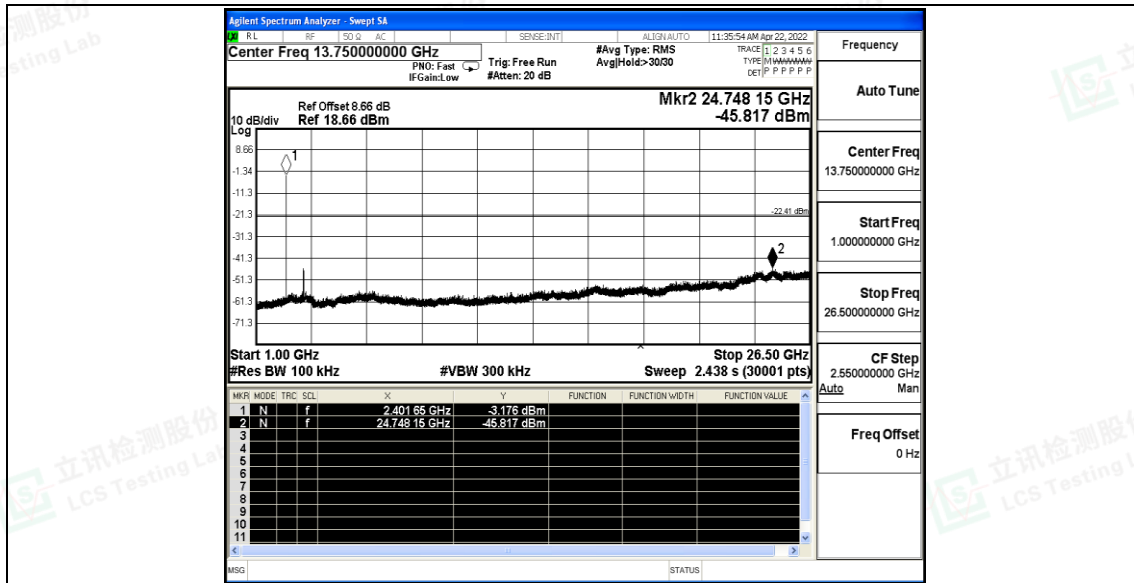
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-50.94	≤-22.41	PASS
			1000~26500	-2.41	-45.82	≤-22.41	PASS
		2440	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-51.51	≤-23.52	PASS
			1000~26500	-3.52	-46.41	≤-23.52	PASS
		2480	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-51.17	≤-21.77	PASS
			1000~26500	-1.77	-45.8	≤-21.77	PASS



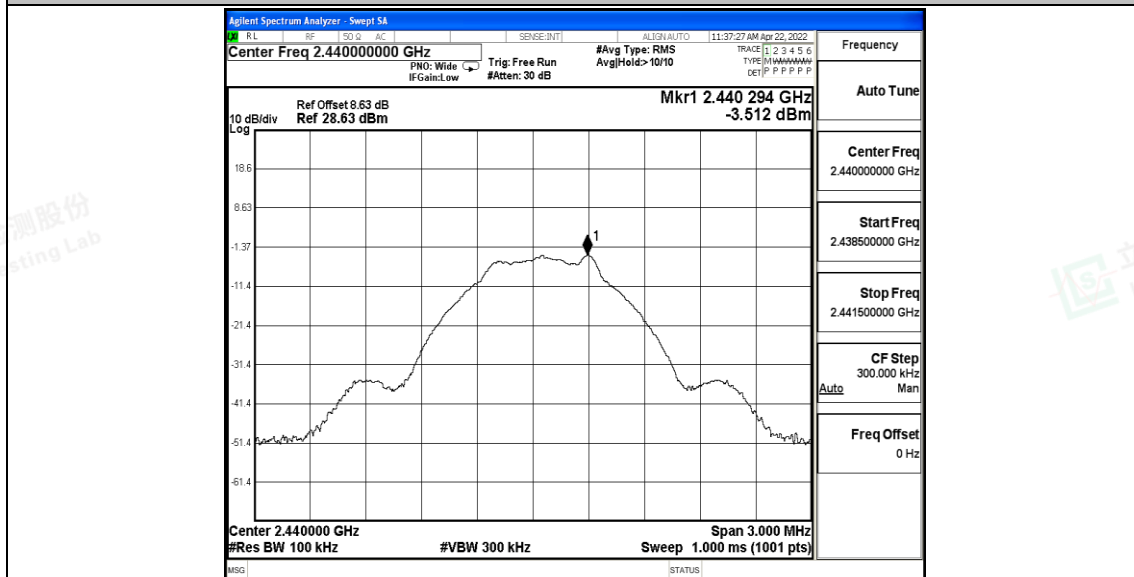


Test Graphs





BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

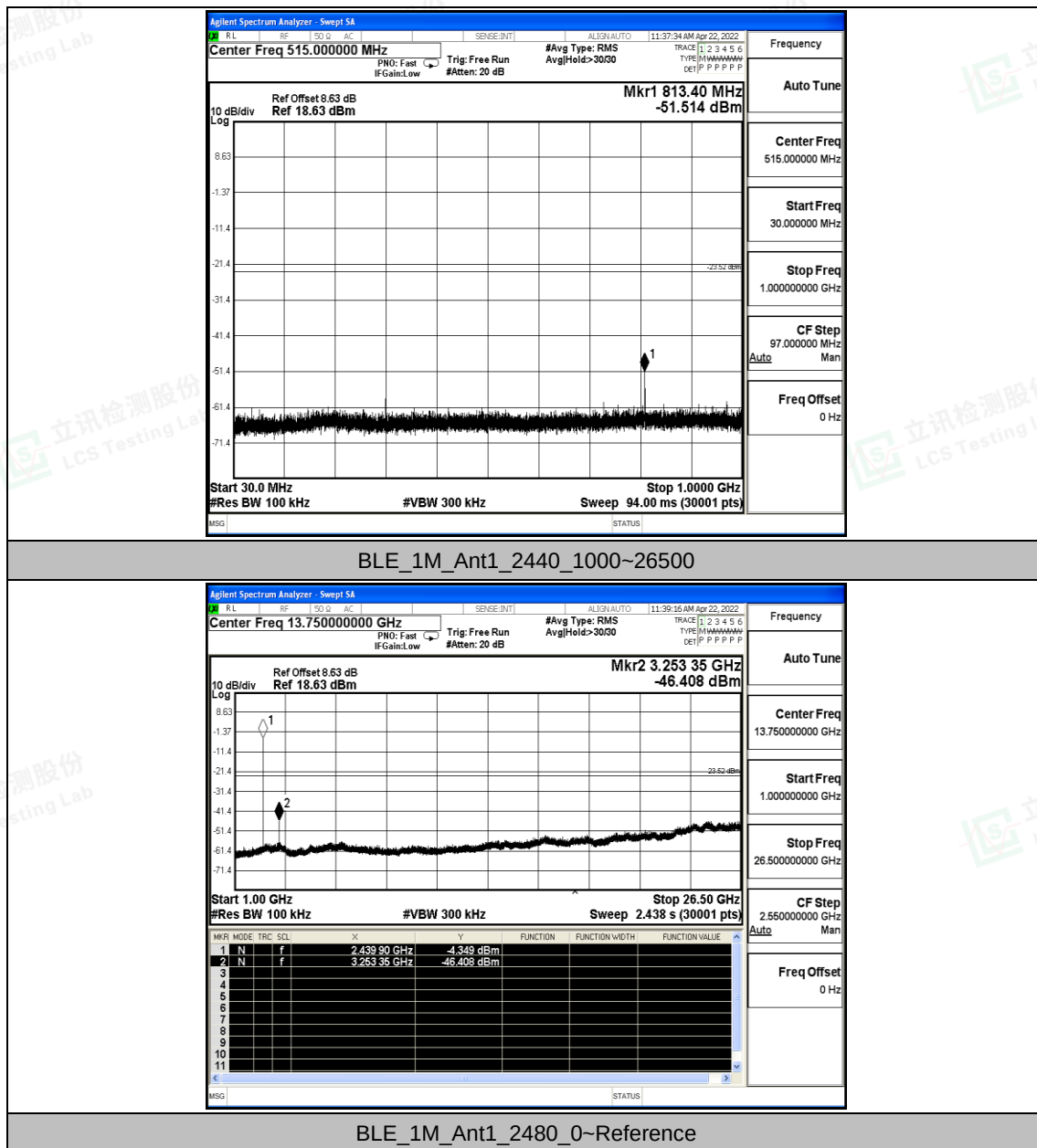


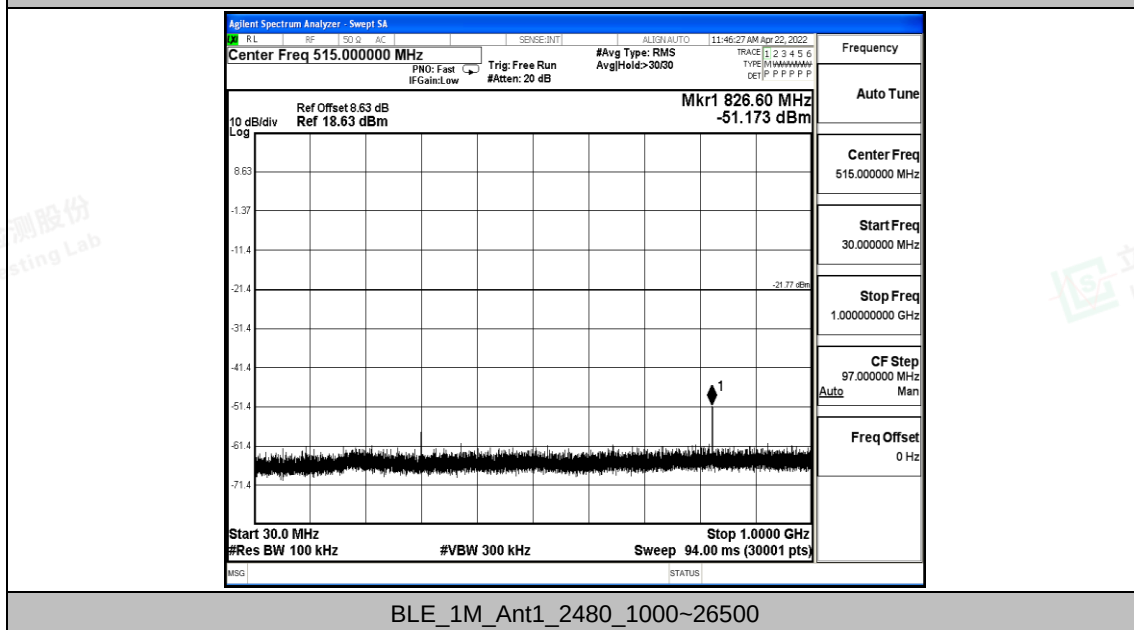
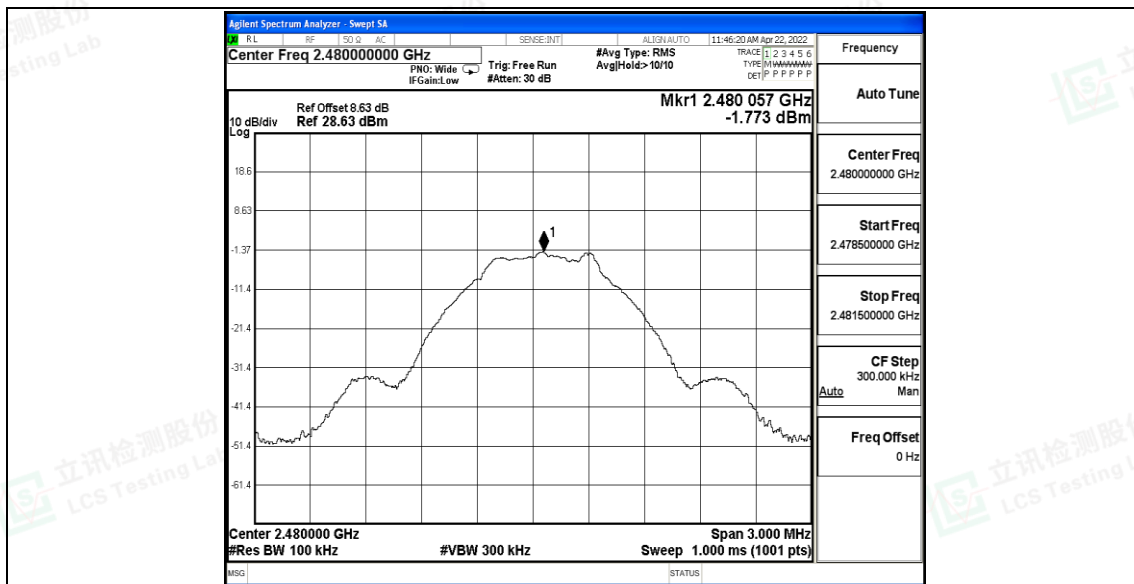
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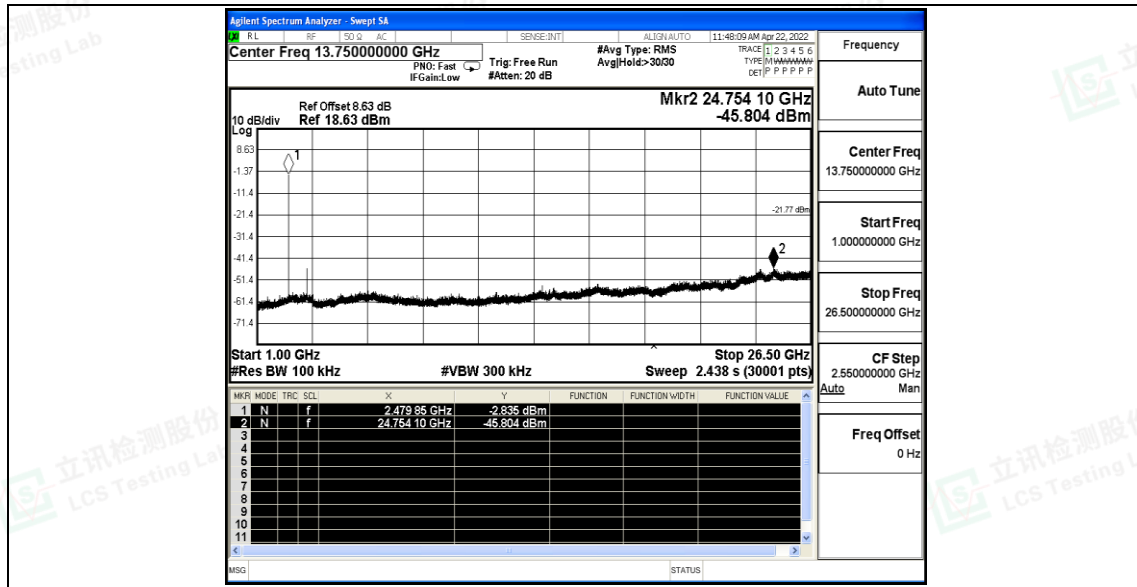
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A.7 Duty Cycle

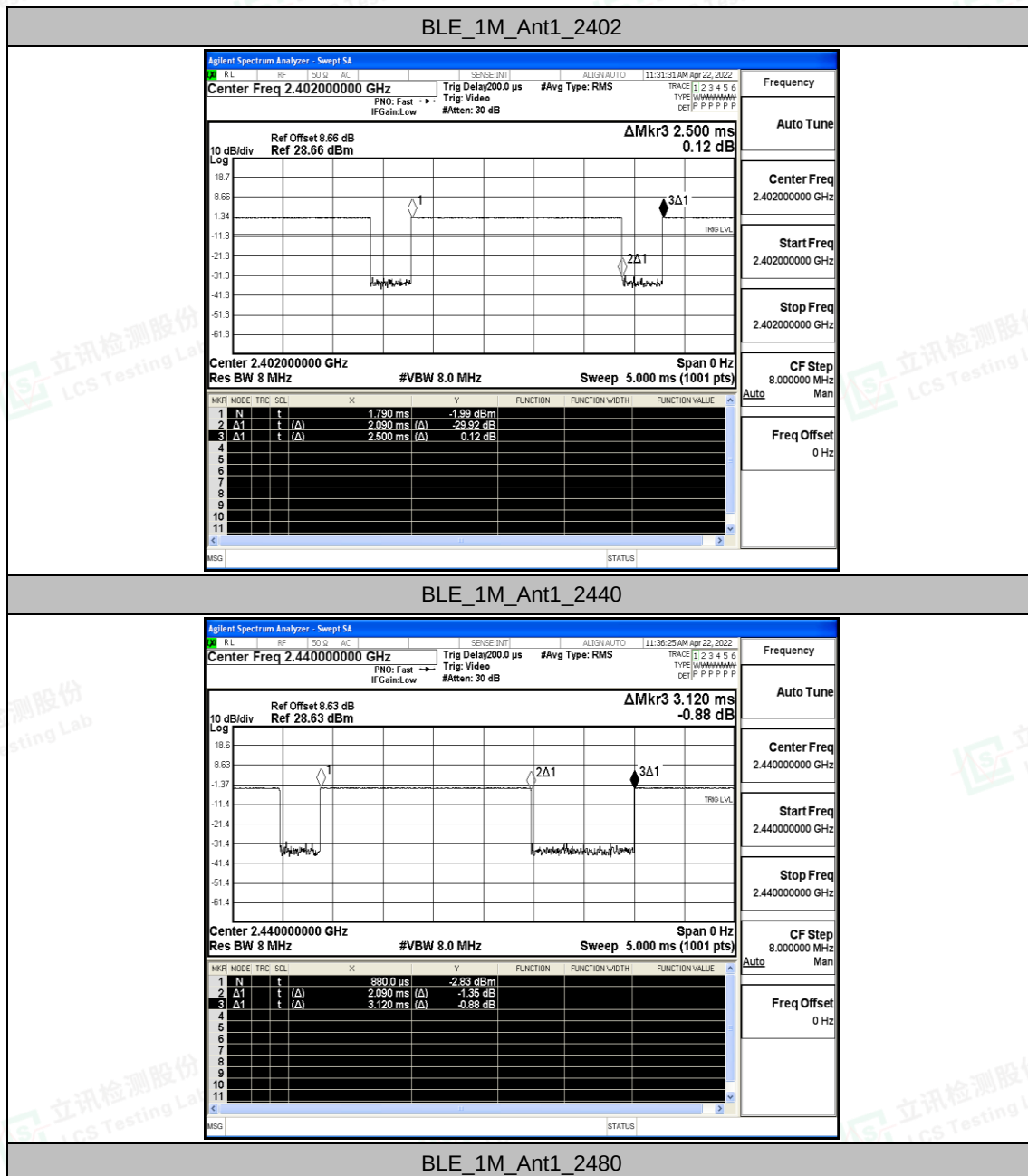
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.09	2.50	0.8360	83.60	0.78	---	---
		2440	2.09	3.12	0.6699	66.99	1.74	---	---
		2480	2.09	3.12	0.6699	66.99	1.74	---	---





Test Graphs

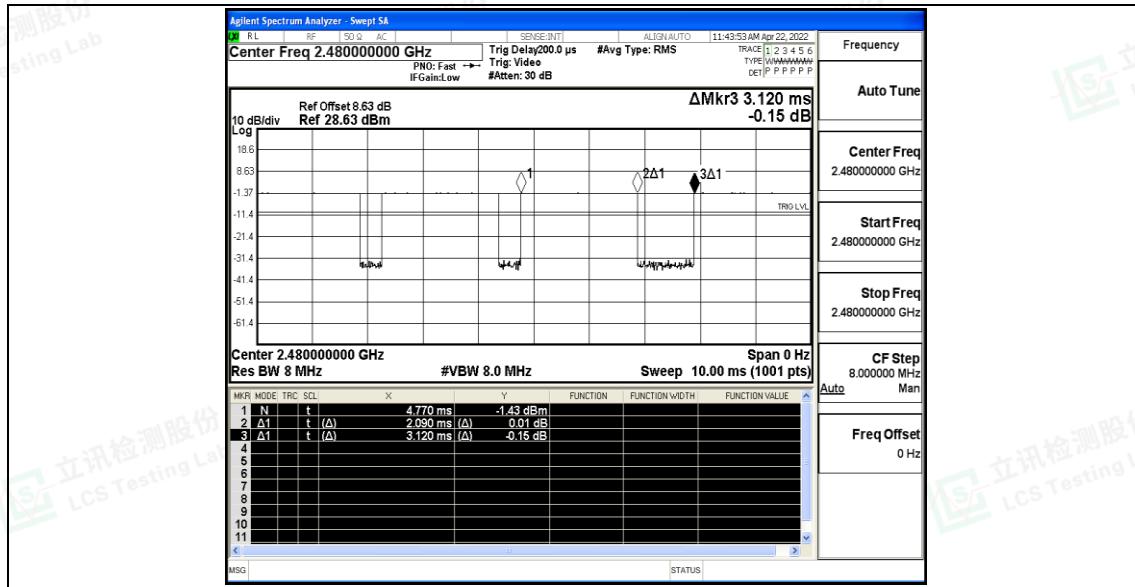


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A.8 Emissions in Restricted Bands

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	-57.79	≤-41.20	37.41	≤54	PASS
				AV	2382.740	-57.35	≤-41.20	37.85	≤54	PASS
				AV	2390.000	-57.48	≤-41.20	37.72	≤54	PASS
				Peak	2310.000	-48.71	≤-21.20	46.49	≤74	PASS
				Peak	2386.520	-46.2	≤-21.20	49.00	≤74	PASS
				Peak	2390.000	-47.69	≤-21.20	47.51	≤74	PASS
		High	2480	AV	2483.500	-54.18	≤-41.20	41.02	≤54	PASS
				AV	2483.520	-54.18	≤-41.20	41.02	≤54	PASS
				AV	2500.000	-56.82	≤-41.20	38.38	≤54	PASS
				Peak	2483.500	-46.82	≤-21.20	48.38	≤74	PASS
				Peak	2492.000	-46.15	≤-21.20	49.05	≤74	PASS
				Peak	2500.000	-47.87	≤-21.20	47.33	≤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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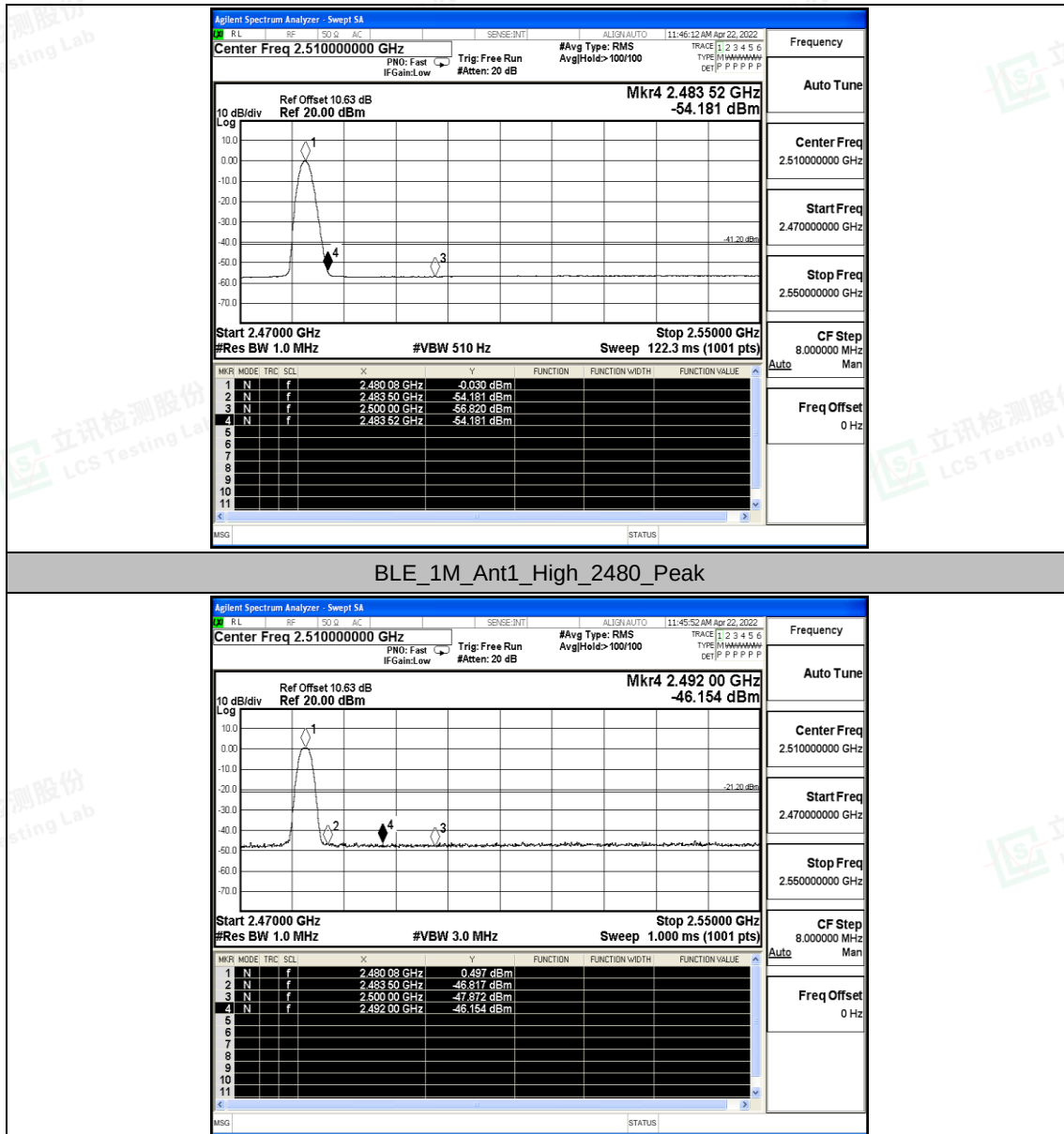


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