



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: laipic

Test Model: S1

Environmental Conditions

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



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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B.1 DTS Bandwidth

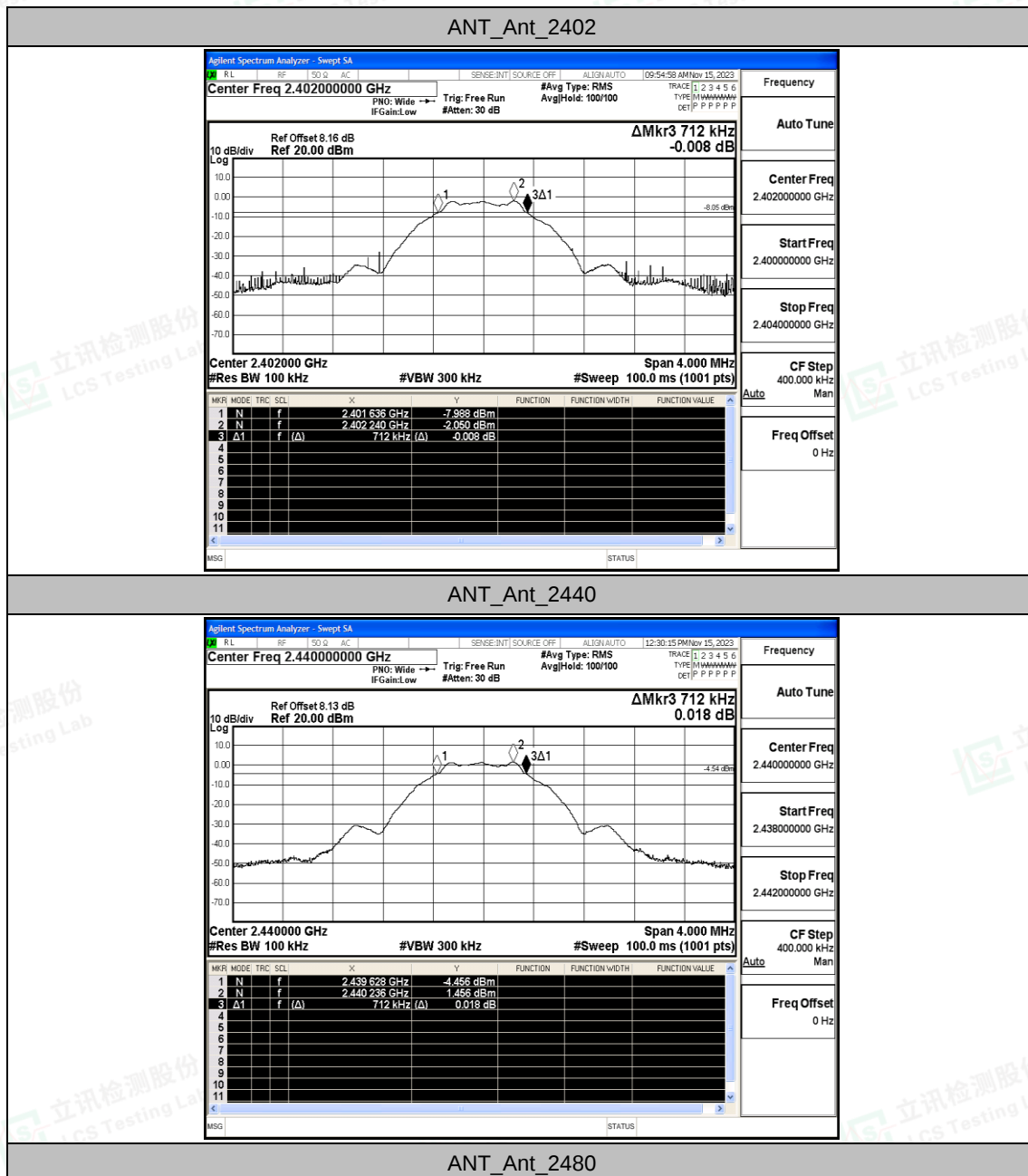
Test Result

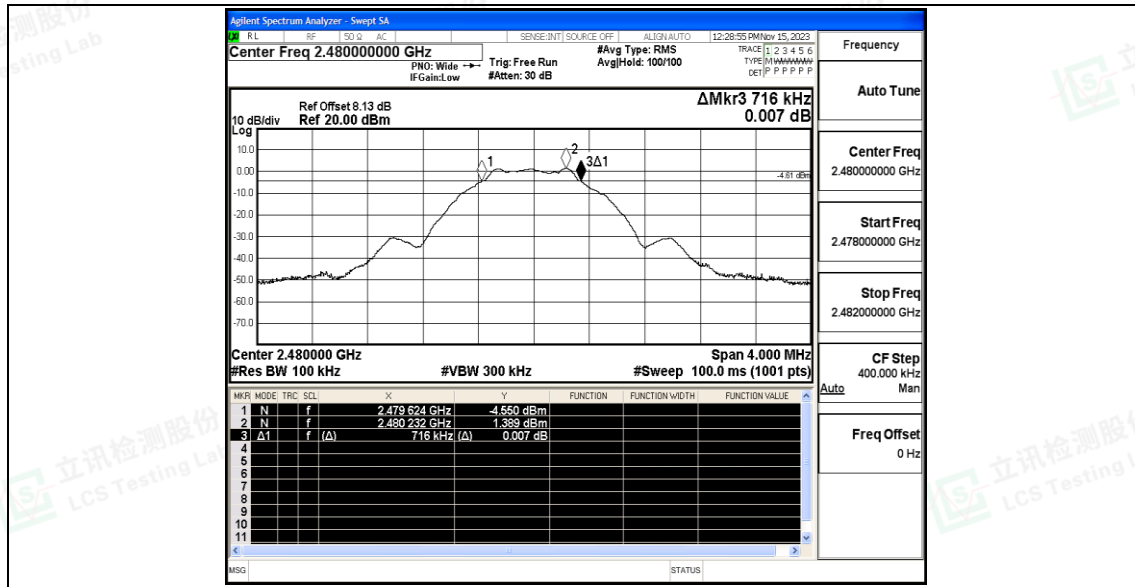
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ANT	Ant	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.712	2439.628	2440.340	0.5	PASS
		2480	0.716	2479.624	2480.340	0.5	PASS





Test Graphs







B.2 Maximum peak conducted output power

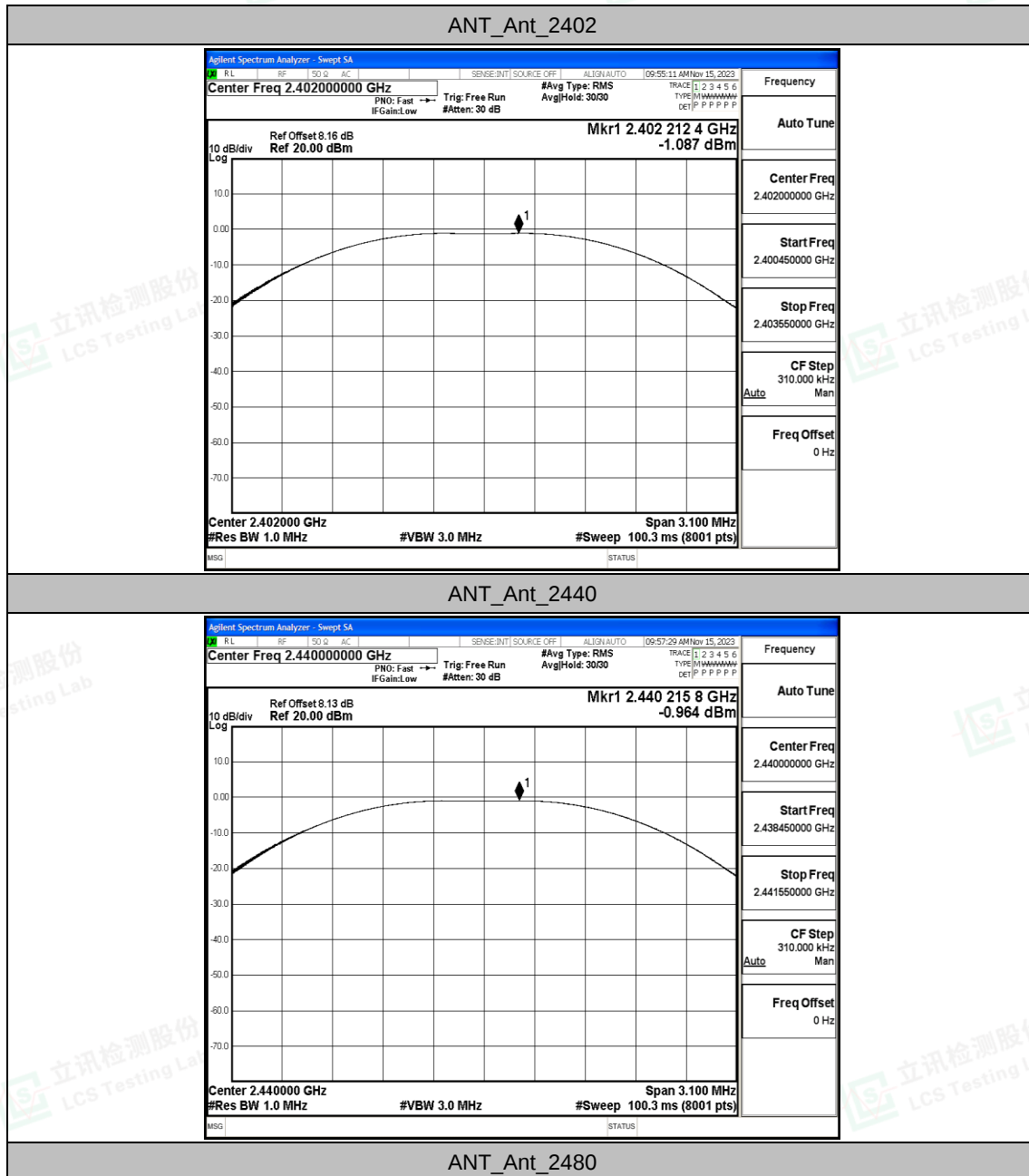
Test Result

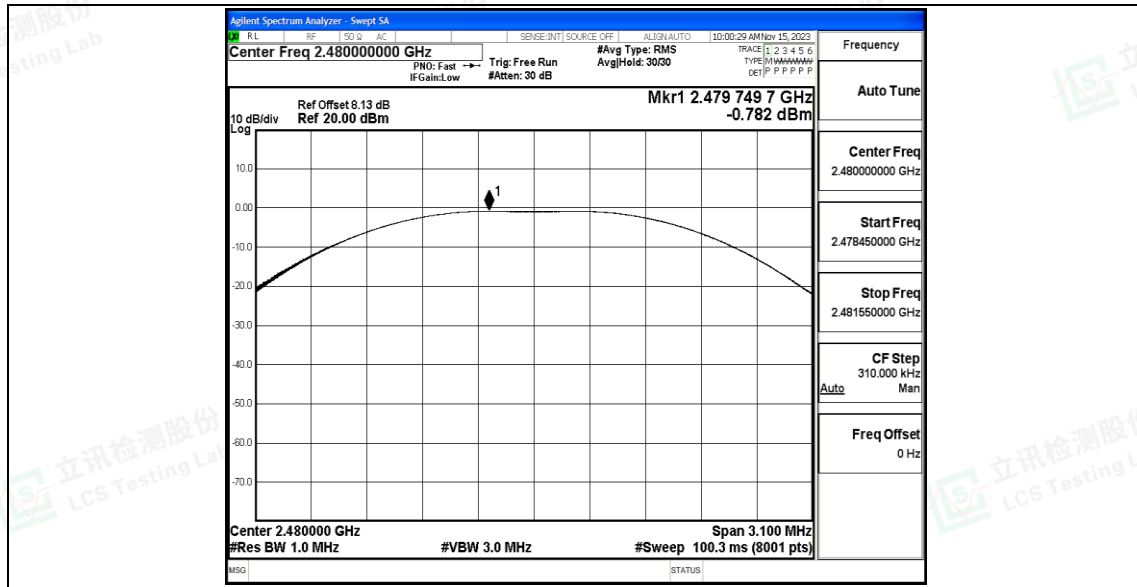
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
ANT	Ant	2402	-1.09	≤30	PASS
		2440	-0.96	≤30	PASS
		2480	-0.78	≤30	PASS





Test Graphs







B.3 Maximum power spectral density

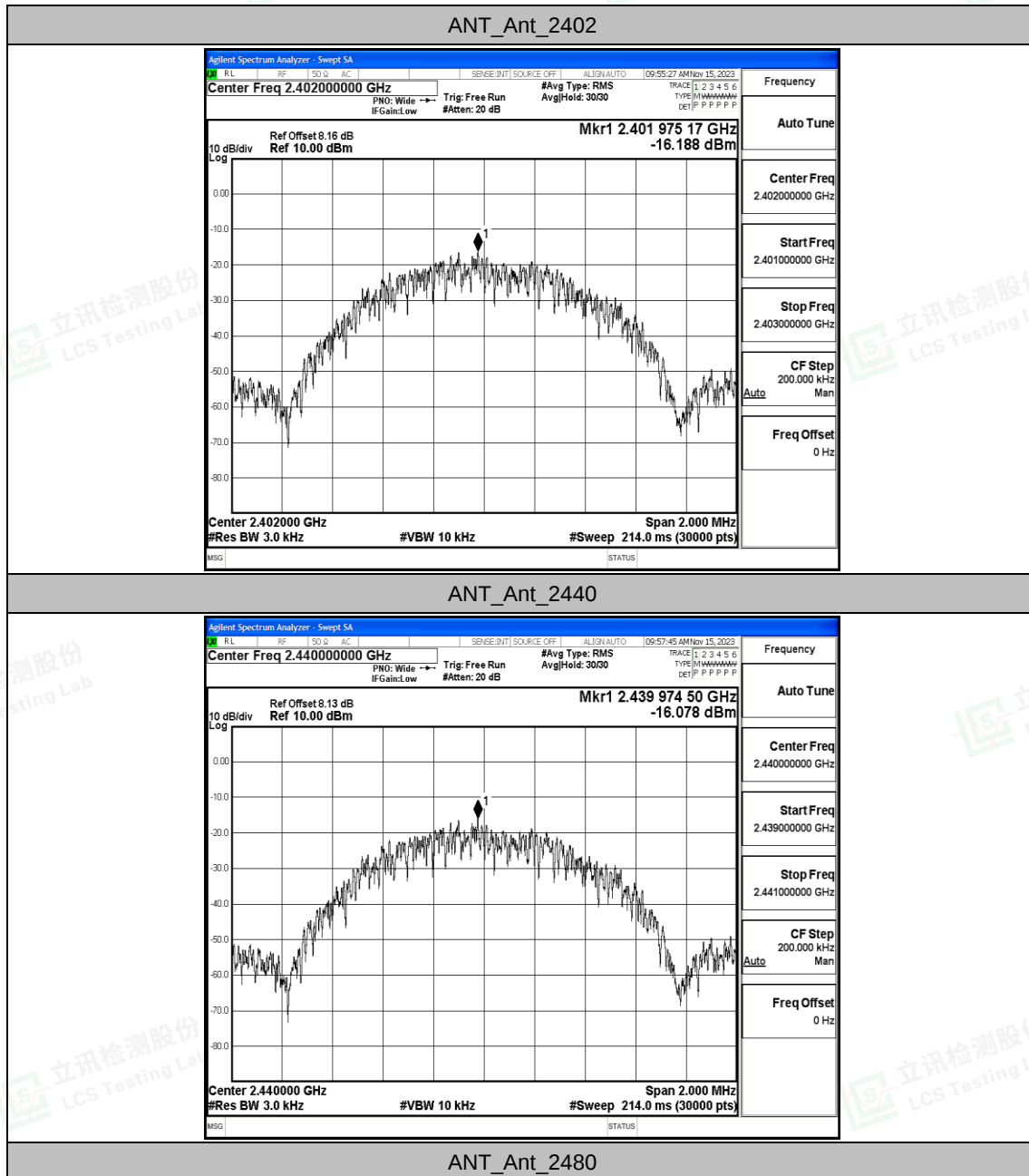
Test Result

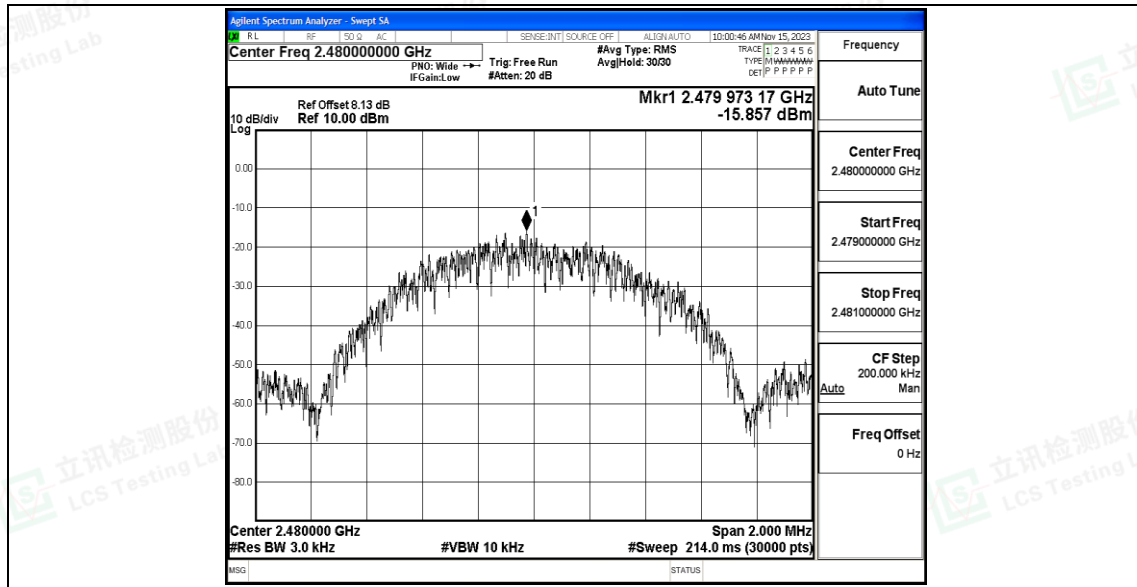
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
ANT	Ant	2402	-16.19	≤8.00	PASS
		2440	-16.08	≤8.00	PASS
		2480	-15.86	≤8.00	PASS





Test Graphs







B.4 Band edge measurements

Test Result

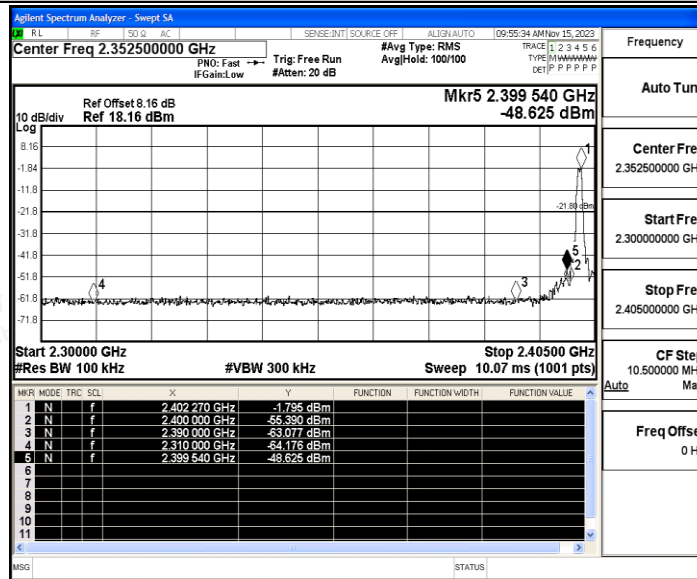
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ANT	Ant	Low	2402	-1.80	-48.63	≤ -21.8	PASS
		High	2480	-1.72	-54.49	≤ -21.72	PASS



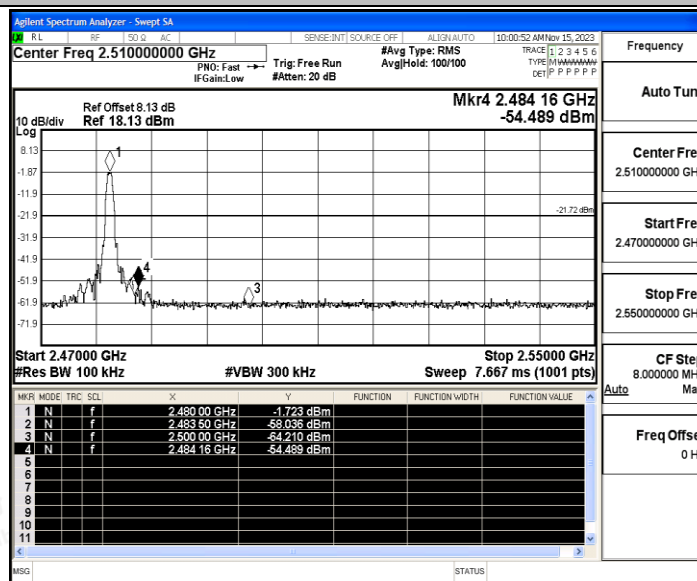


Test Graphs

ANT_Ant_Low_2402



ANT_Ant_High_2480





B.5 Conducted Spurious Emission

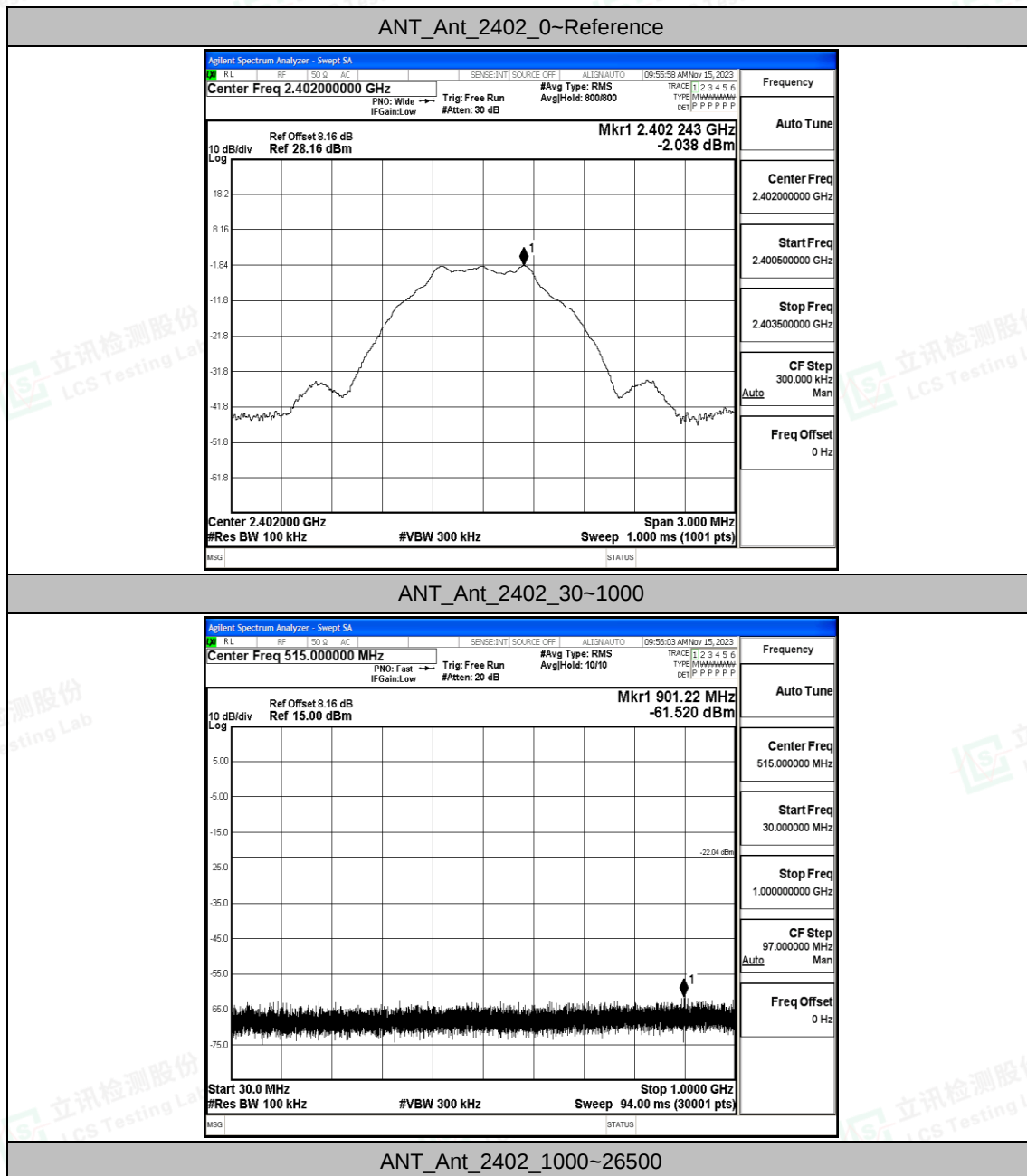
Test Result

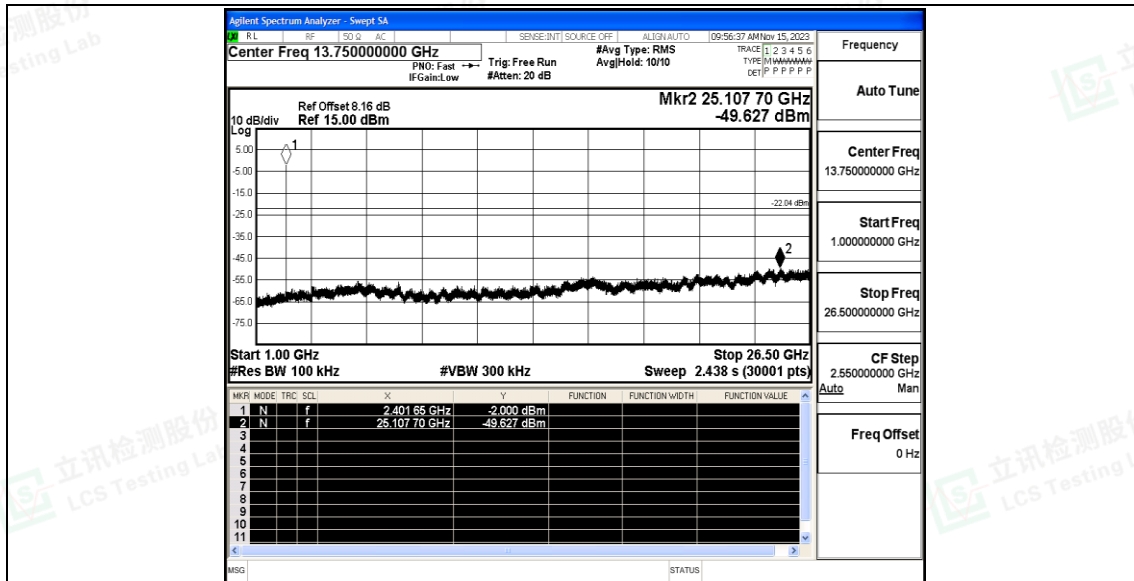
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ANT	Ant	2402	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-61.52	≤-22.04	PASS
			1000~26500	-2.04	-49.63	≤-22.04	PASS
		2440	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-61.62	≤-21.92	PASS
			1000~26500	-1.92	-48.83	≤-21.92	PASS
		2480	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-61.38	≤-21.77	PASS
			1000~26500	-1.77	-49.57	≤-21.77	PASS



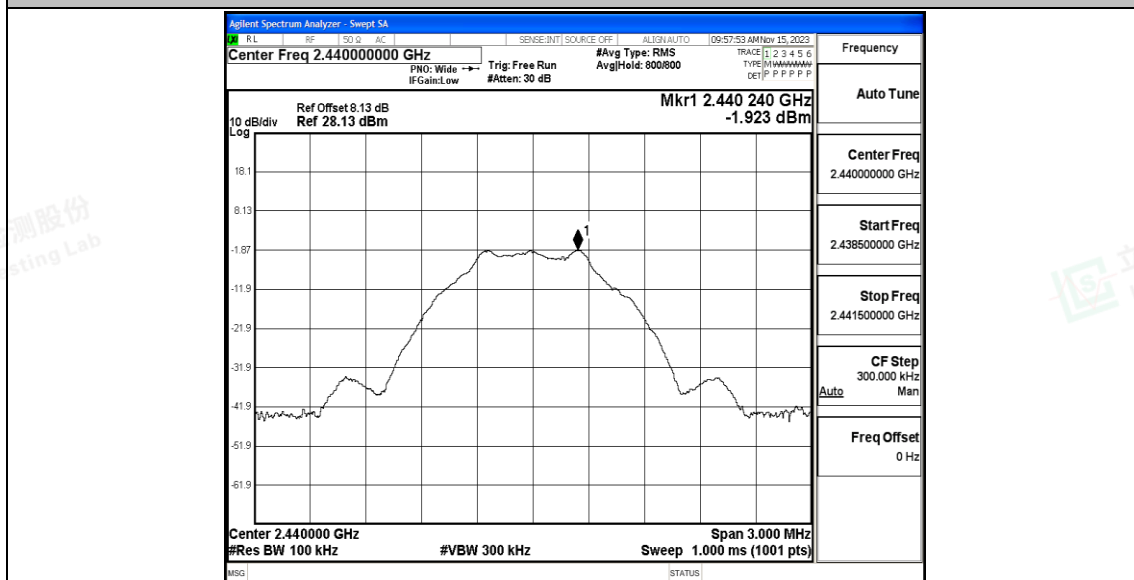


Test Graphs



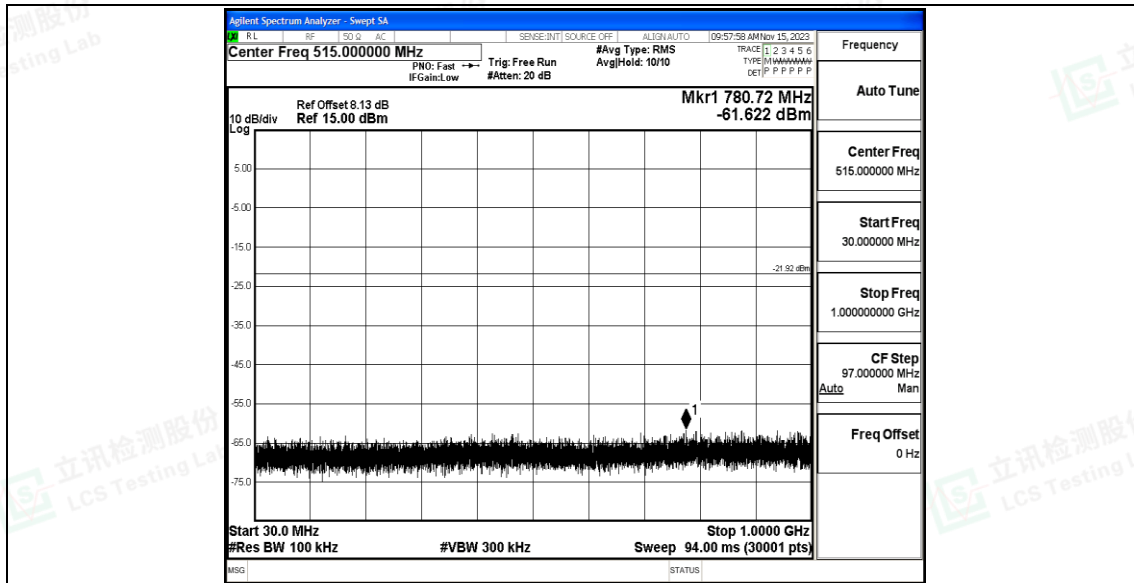


ANT_Ant_2440_0~Reference

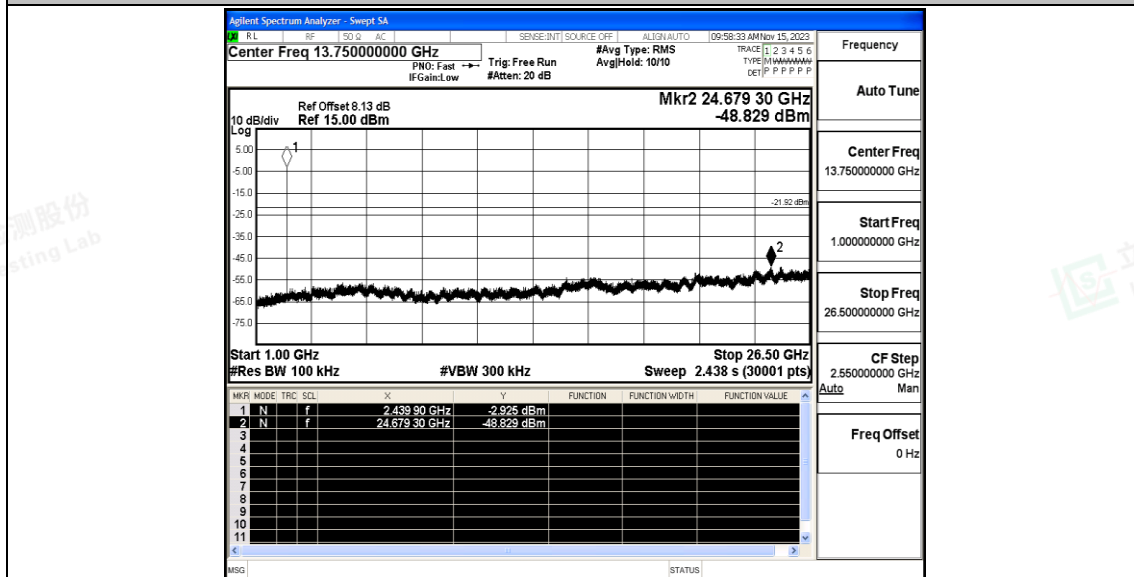


ANT_Ant_2440_30~1000



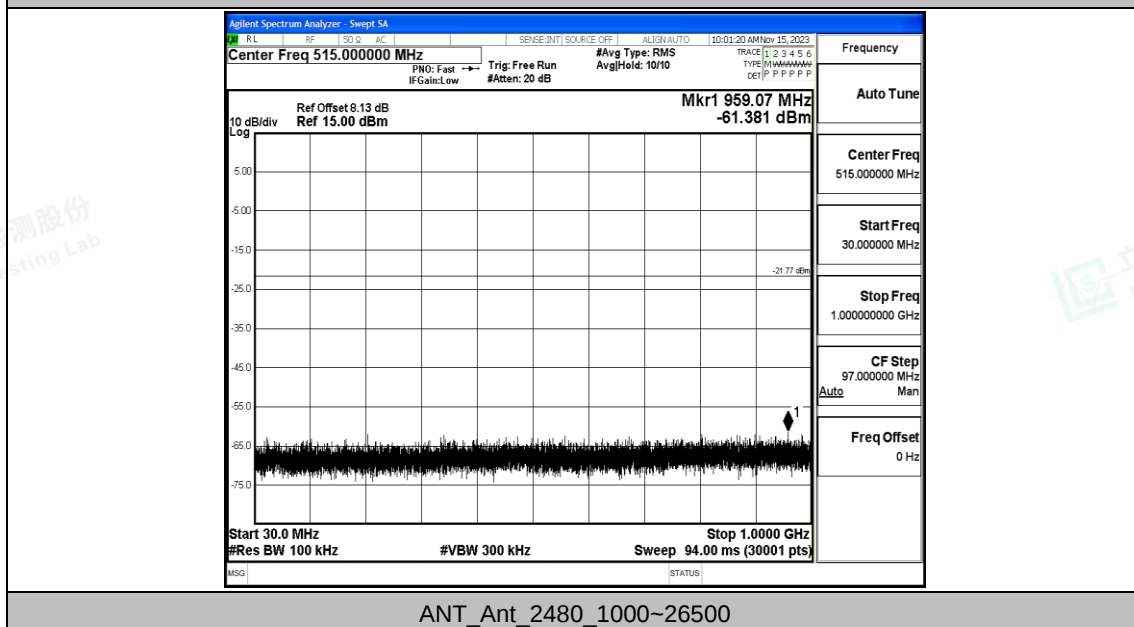
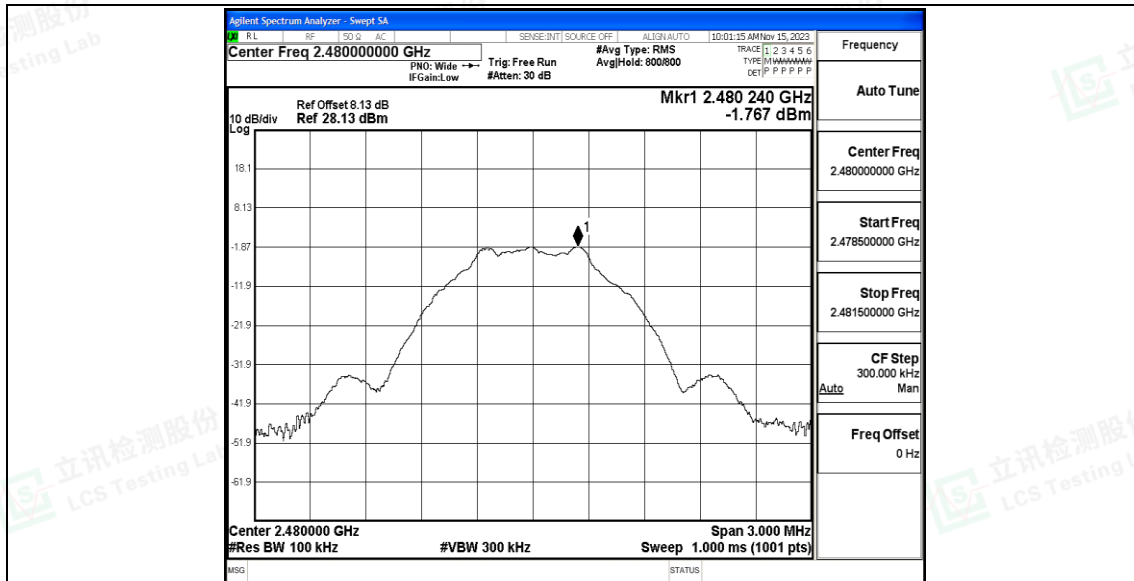


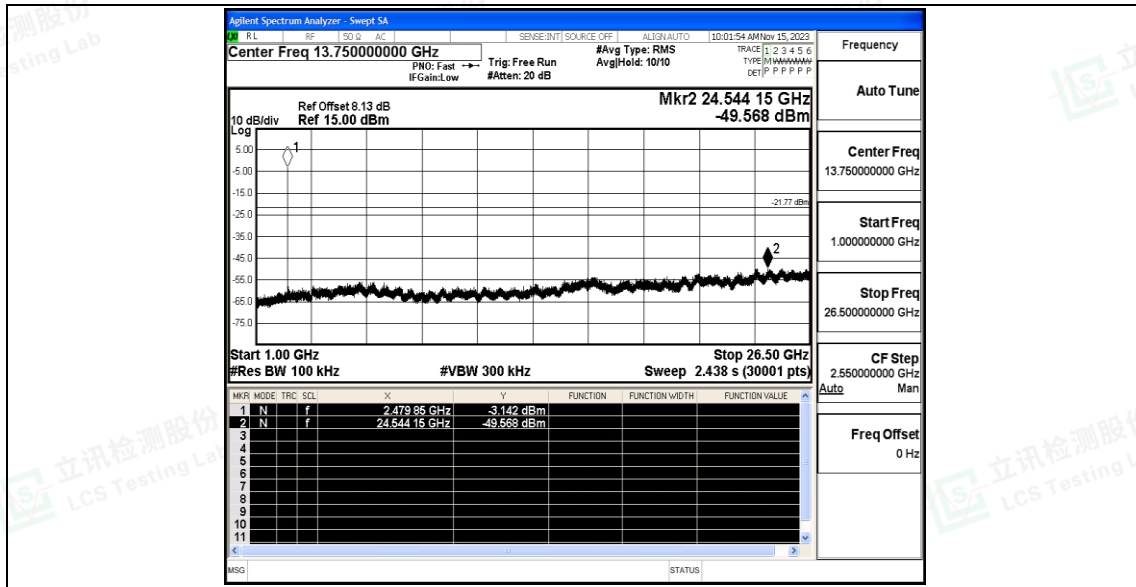
ANT_Ant_2440_1000~26500



ANT_Ant_2480_0~Reference









B.6 Duty Cycle

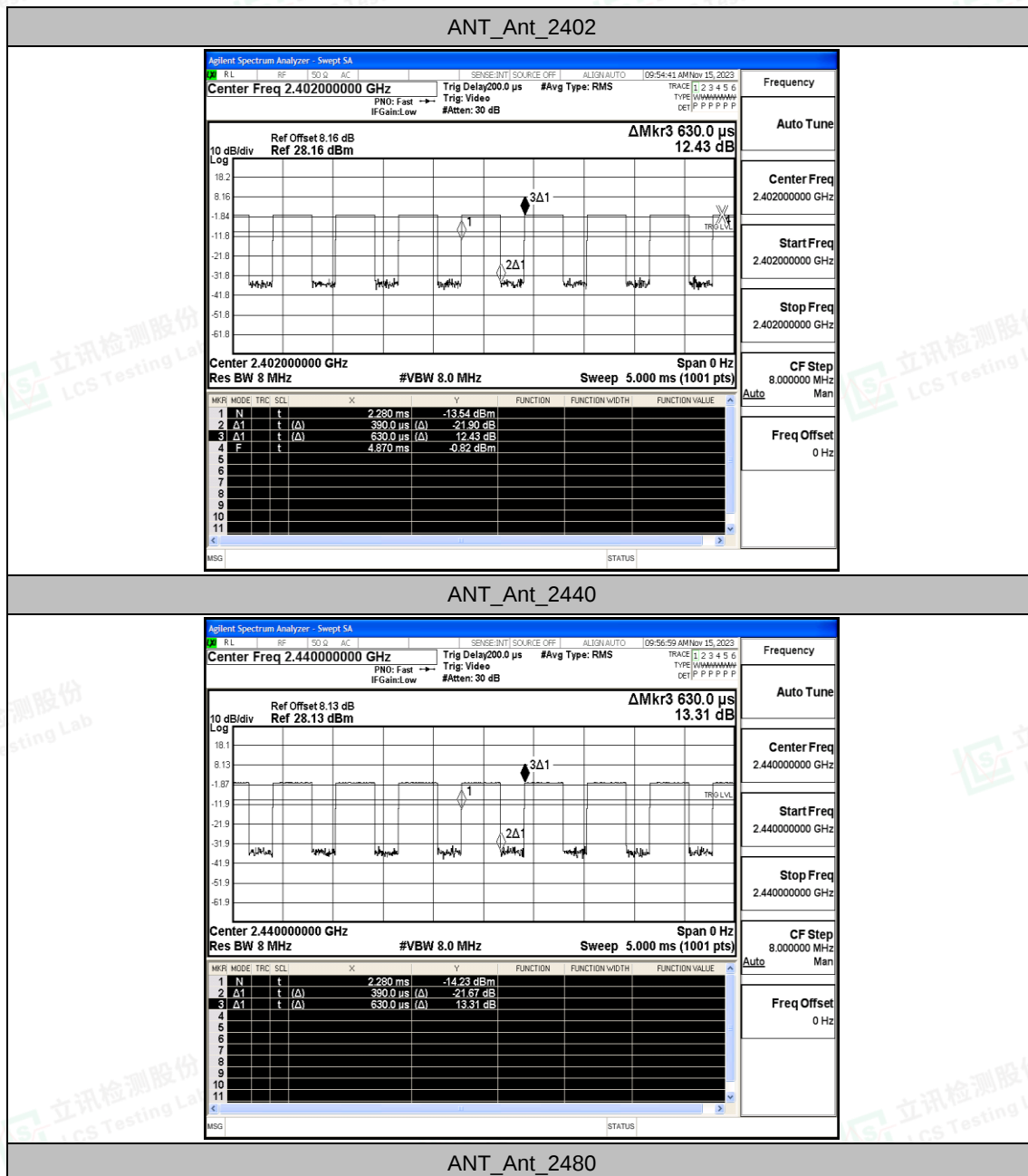
Test Result

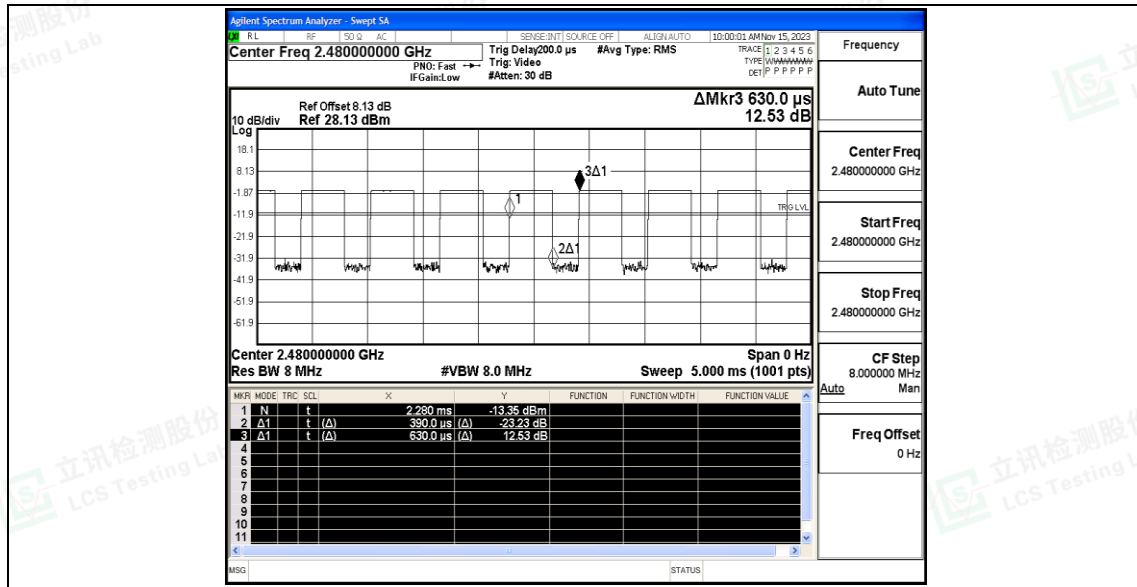
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
ANT	Ant	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	---





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
ANT	Ant	Low	2402	AV	2310.000	-58.52	≤-41.20	36.68	≤54	PASS
				AV	2381.795	-57.74	≤-41.20	37.46	≤54	PASS
				AV	2390.000	-58.13	≤-41.20	37.07	≤54	PASS
				Peak	2310.000	-52.65	≤-21.20	42.55	≤74	PASS
				Peak	2352.500	-47.98	≤-21.20	47.22	≤74	PASS
				Peak	2390.000	-49.42	≤-21.20	45.78	≤74	PASS
		High	2480	AV	2483.500	-52.52	≤-41.20	42.68	≤54	PASS
				AV	2483.520	-52.52	≤-41.20	42.68	≤54	PASS
				AV	2500.000	-57.8	≤-41.20	37.40	≤54	PASS
				Peak	2483.500	-51.24	≤-21.20	43.96	≤74	PASS
				Peak	2483.680	-36.27	≤-21.20	58.93	≤74	PASS
				Peak	2500.000	-52.02	≤-21.20	43.18	≤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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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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Test Graphs



