



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: smart pet fountain

Test Model: OC-10TY02

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Ling Zhu



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.716	2439.632	2440.348	0.5	PASS
		2480	0.712	2479.632	2480.344	0.5	PASS



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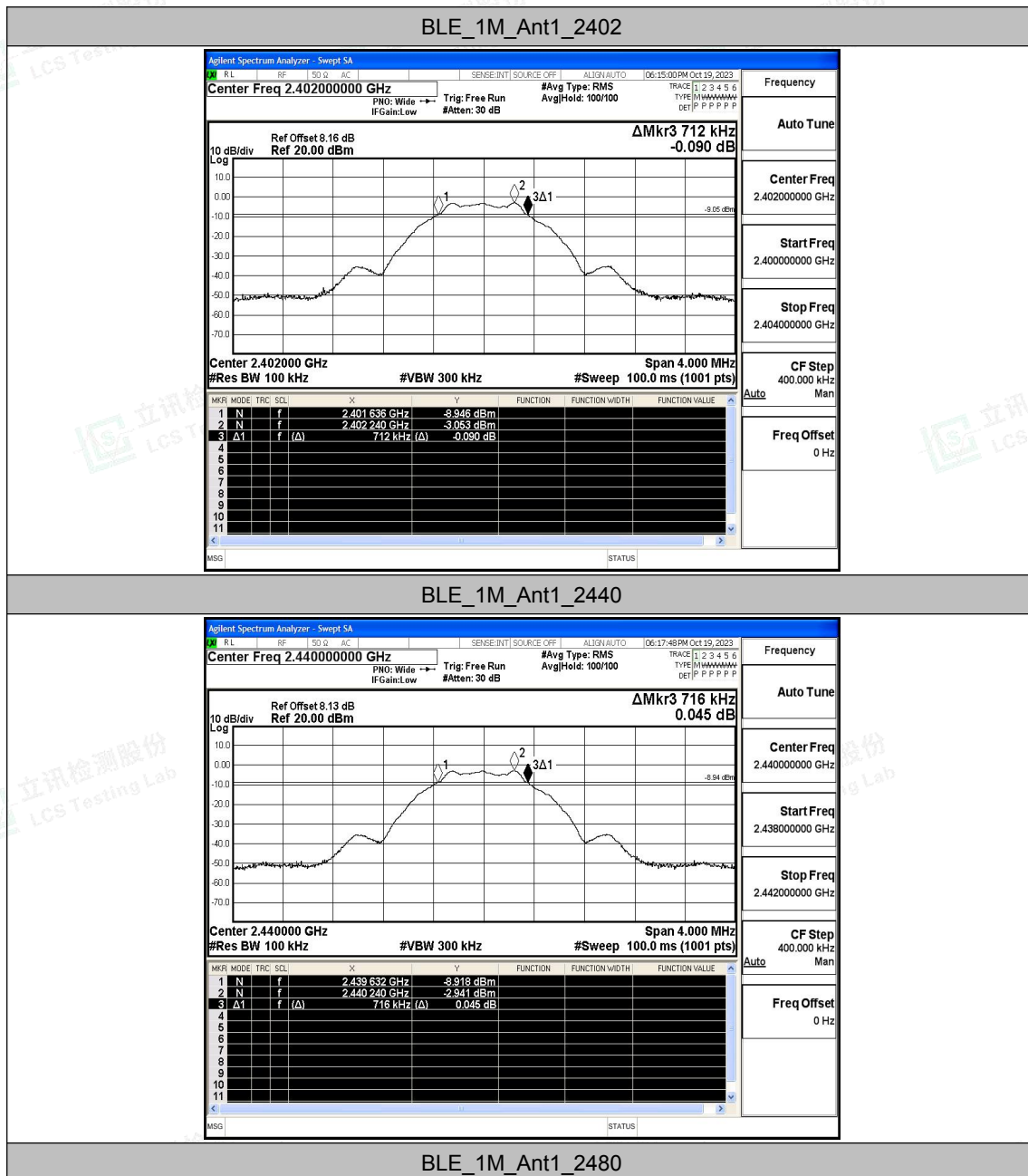
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Test Graphs

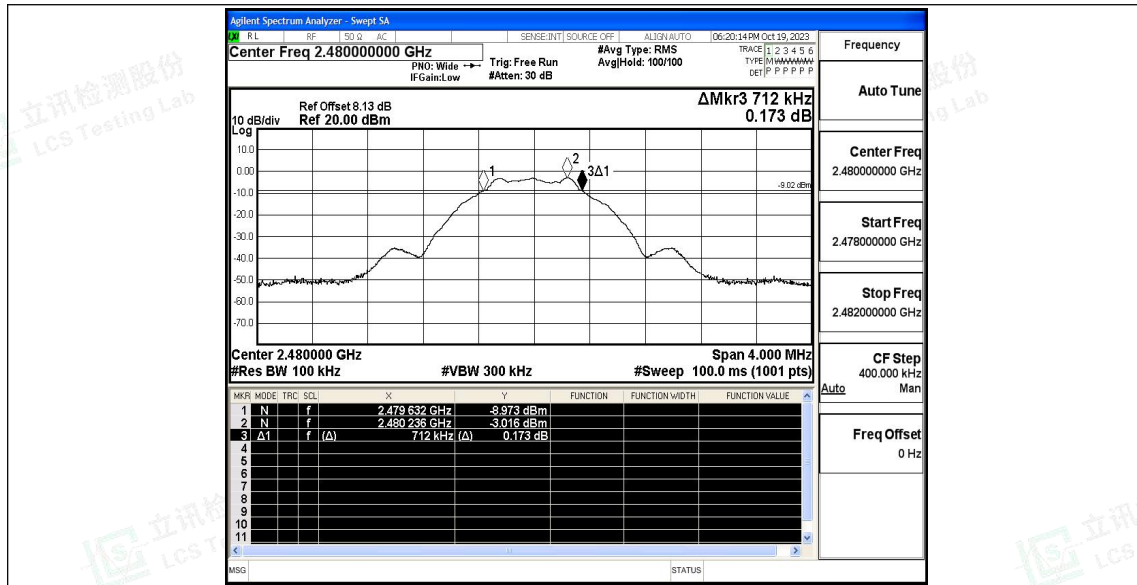


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.07	≤30	PASS
		2440	-1.98	≤30	PASS
		2480	-2.06	≤30	PASS



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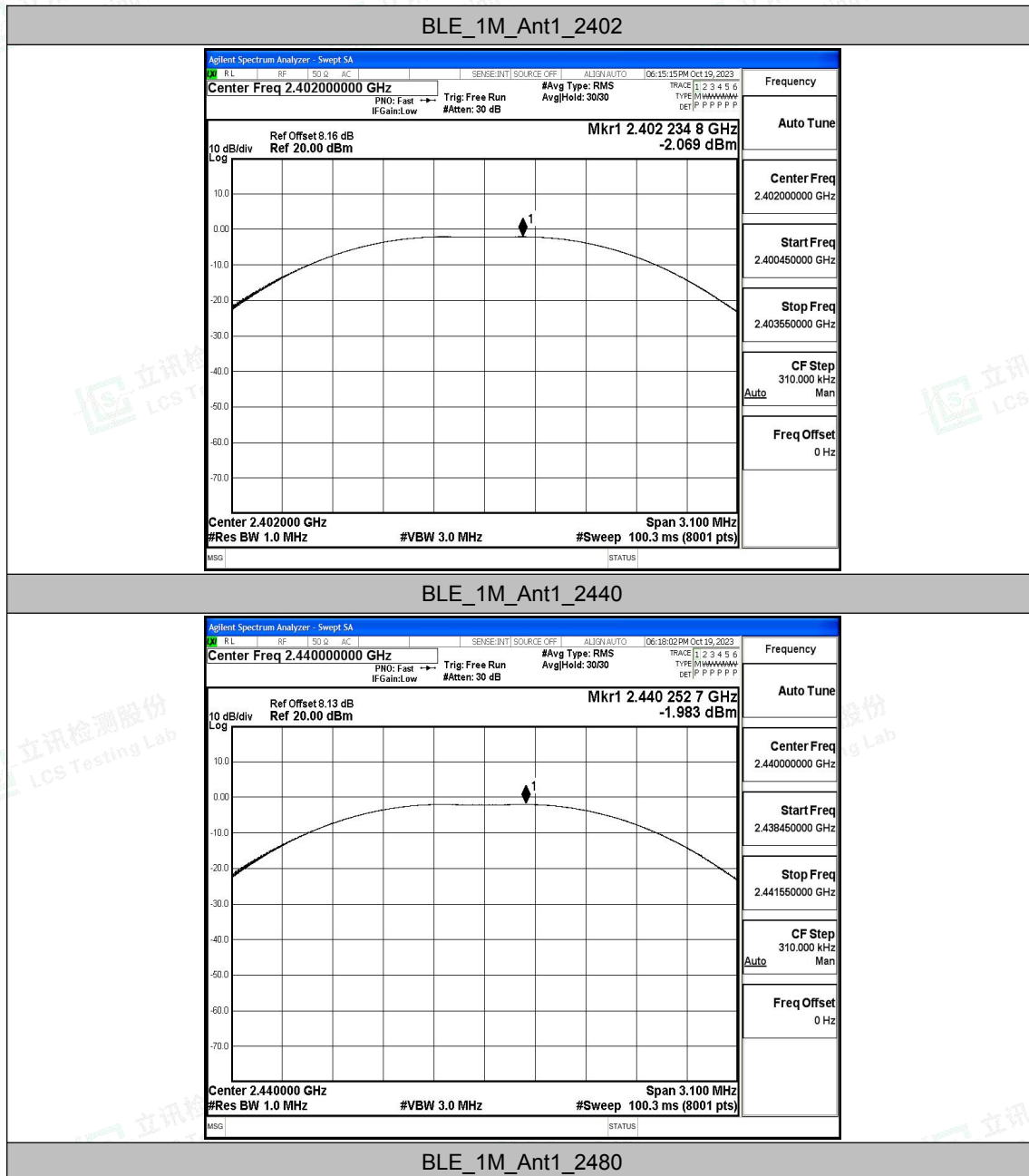
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Test Graphs

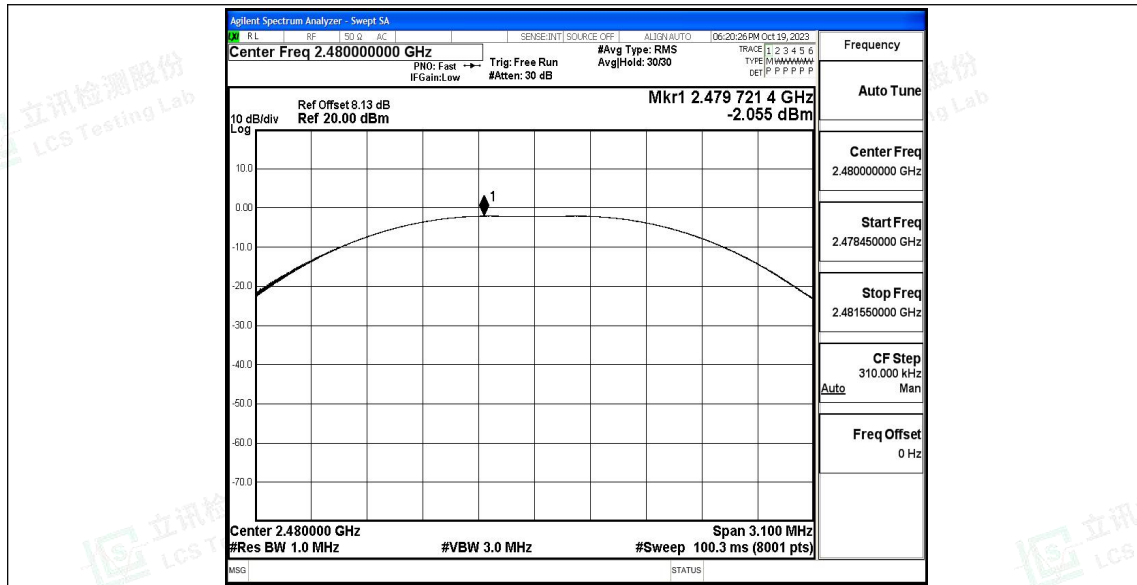


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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.14	≤8.00	PASS
		2440	-17.02	≤8.00	PASS
		2480	-17.16	≤8.00	PASS



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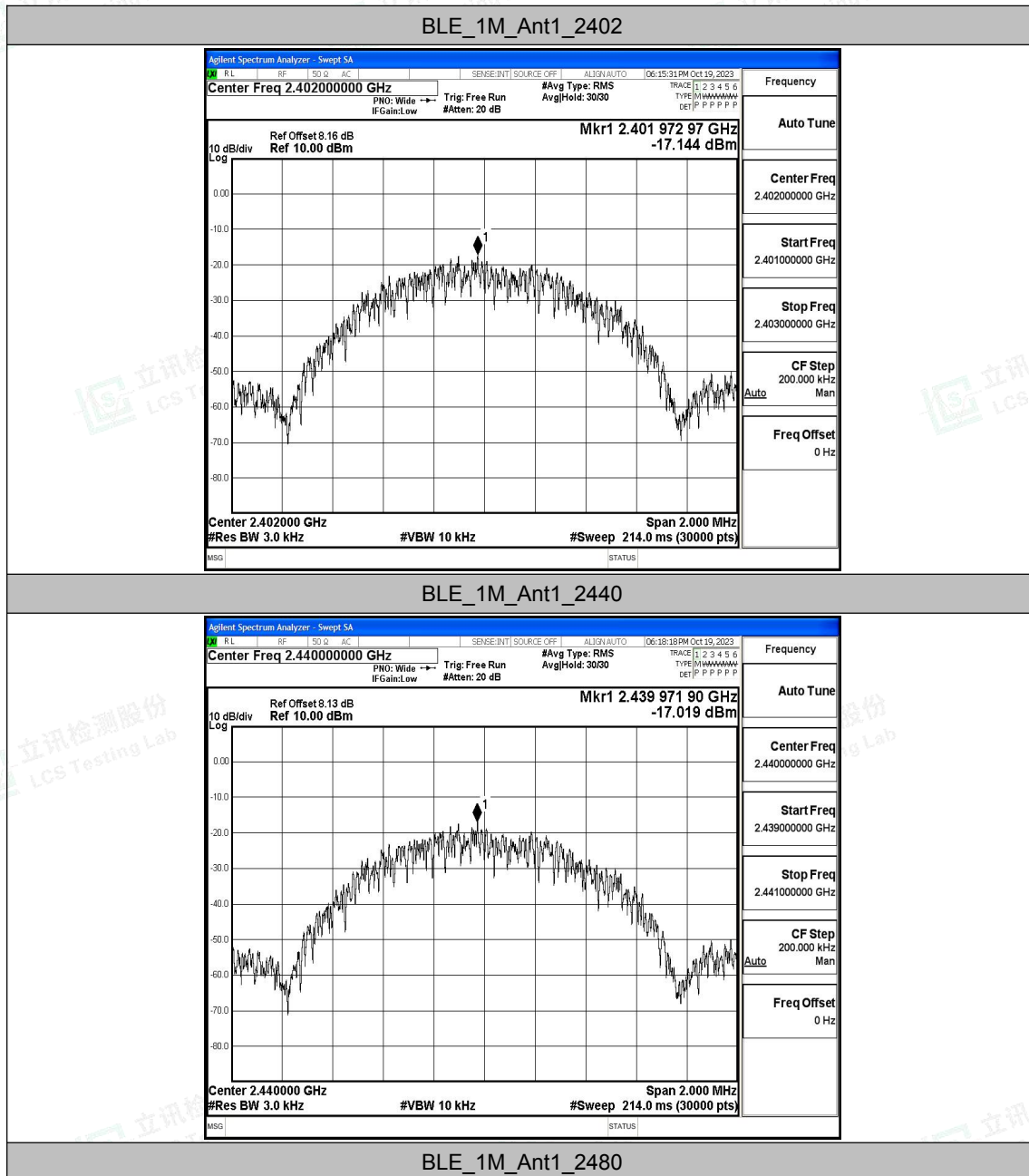
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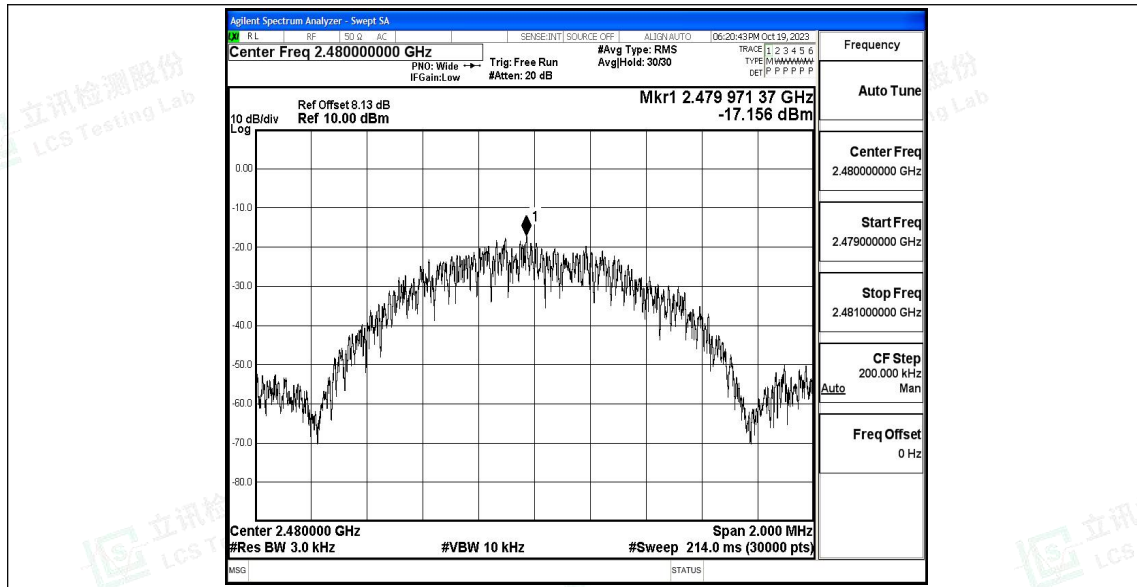


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.84	-60.25	≤-22.84	PASS
		High	2480	-2.98	-60.06	≤-22.98	PASS



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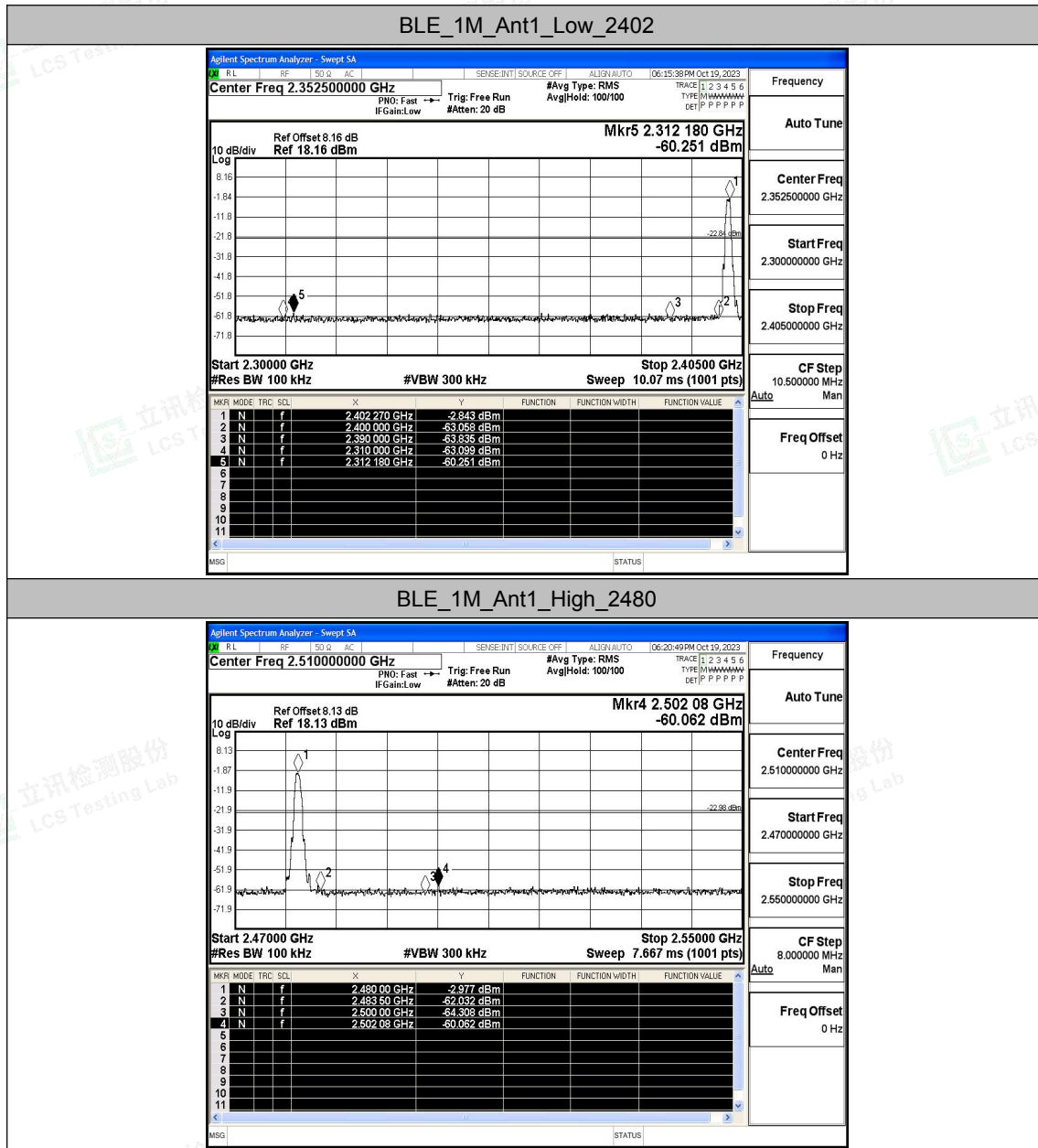
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Test Graphs



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.05	-3.05	---	PASS
			30~1000	-3.05	-60.95	≤-23.05	PASS
			1000~26500	-3.05	-48.73	≤-23.05	PASS
		2440	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-61.49	≤-22.95	PASS
			1000~26500	-2.95	-48.61	≤-22.95	PASS
		2480	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-62.04	≤-23.01	PASS
			1000~26500	-3.01	-49.13	≤-23.01	PASS



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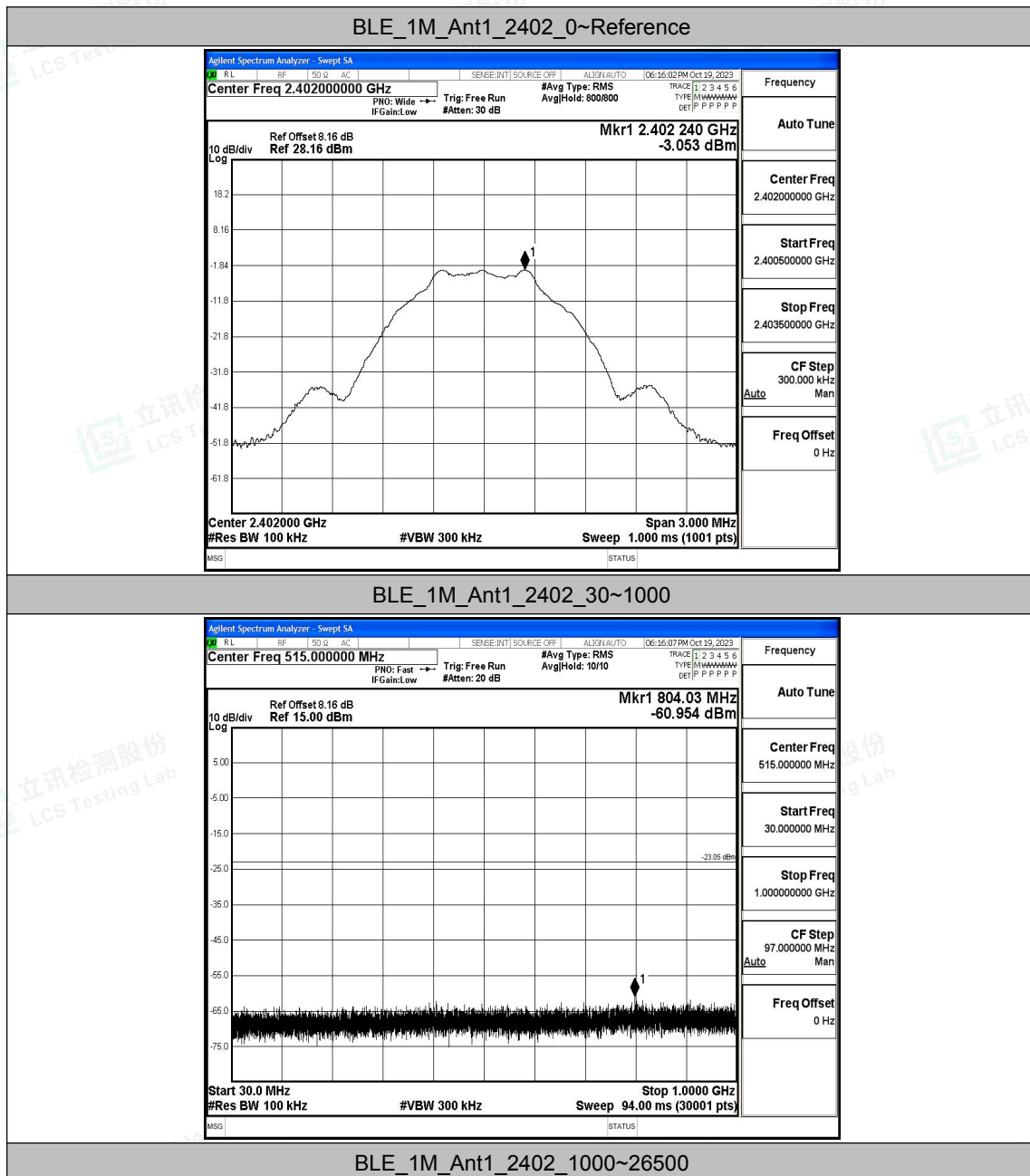
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Test Graphs

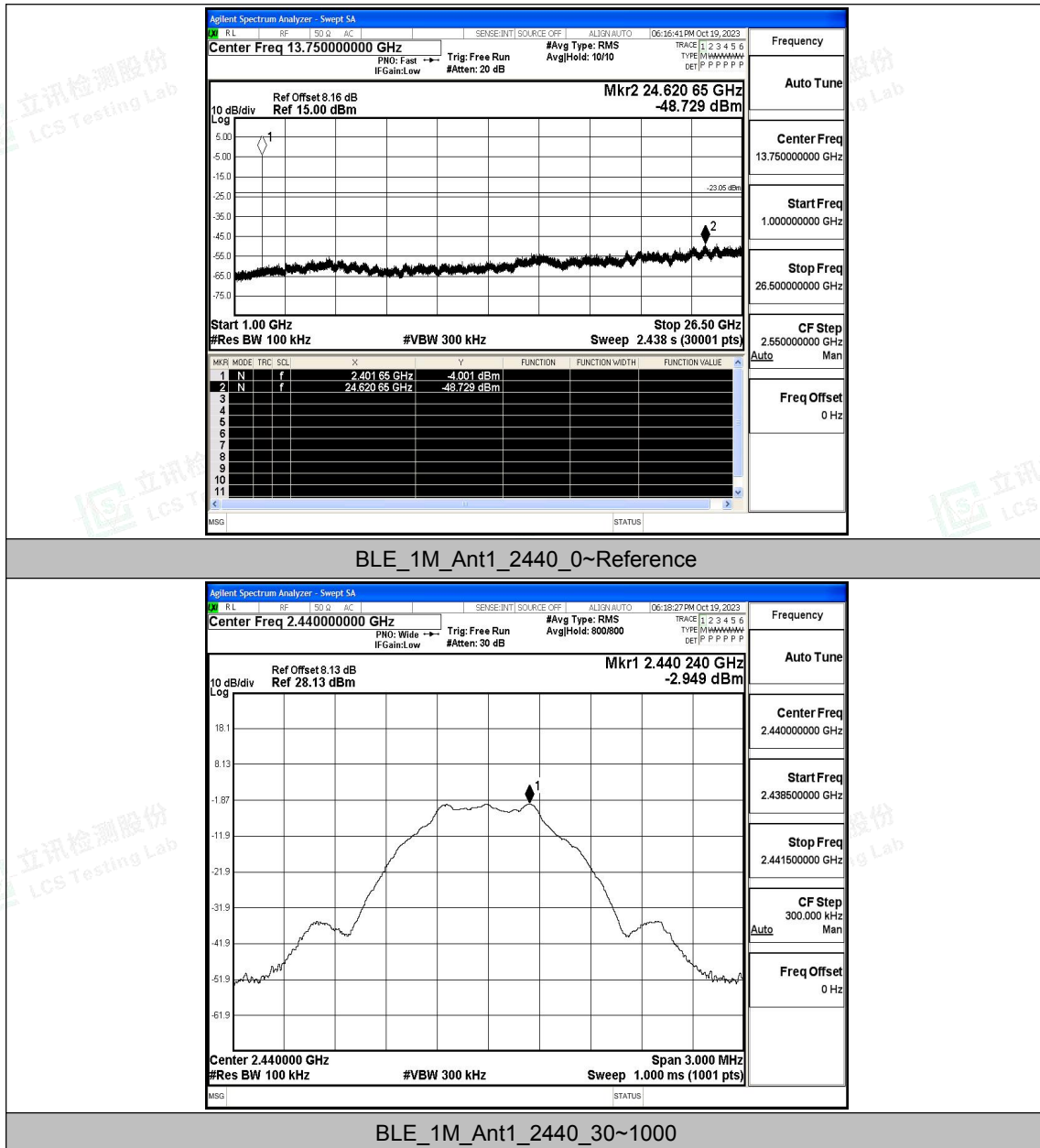


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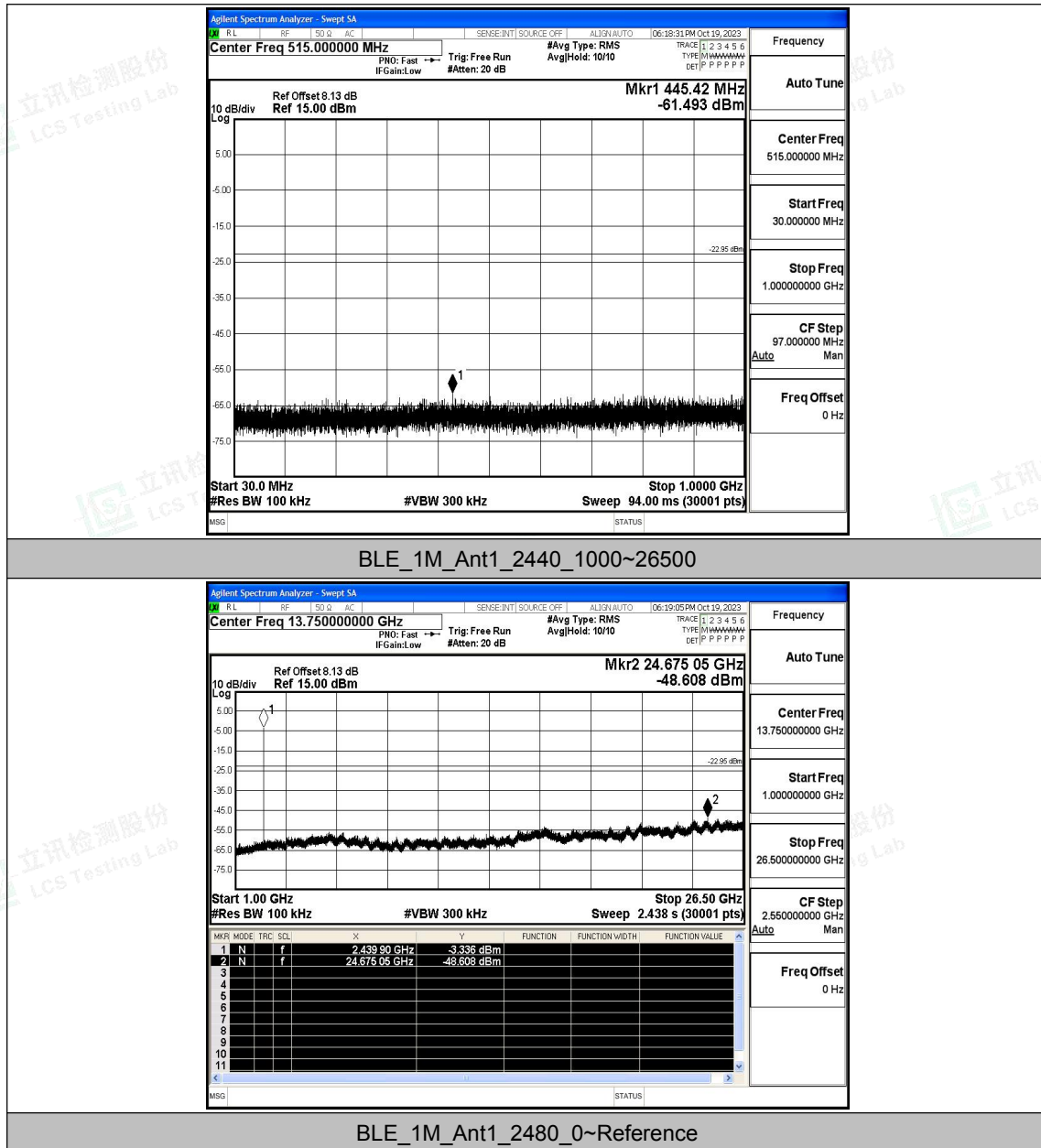


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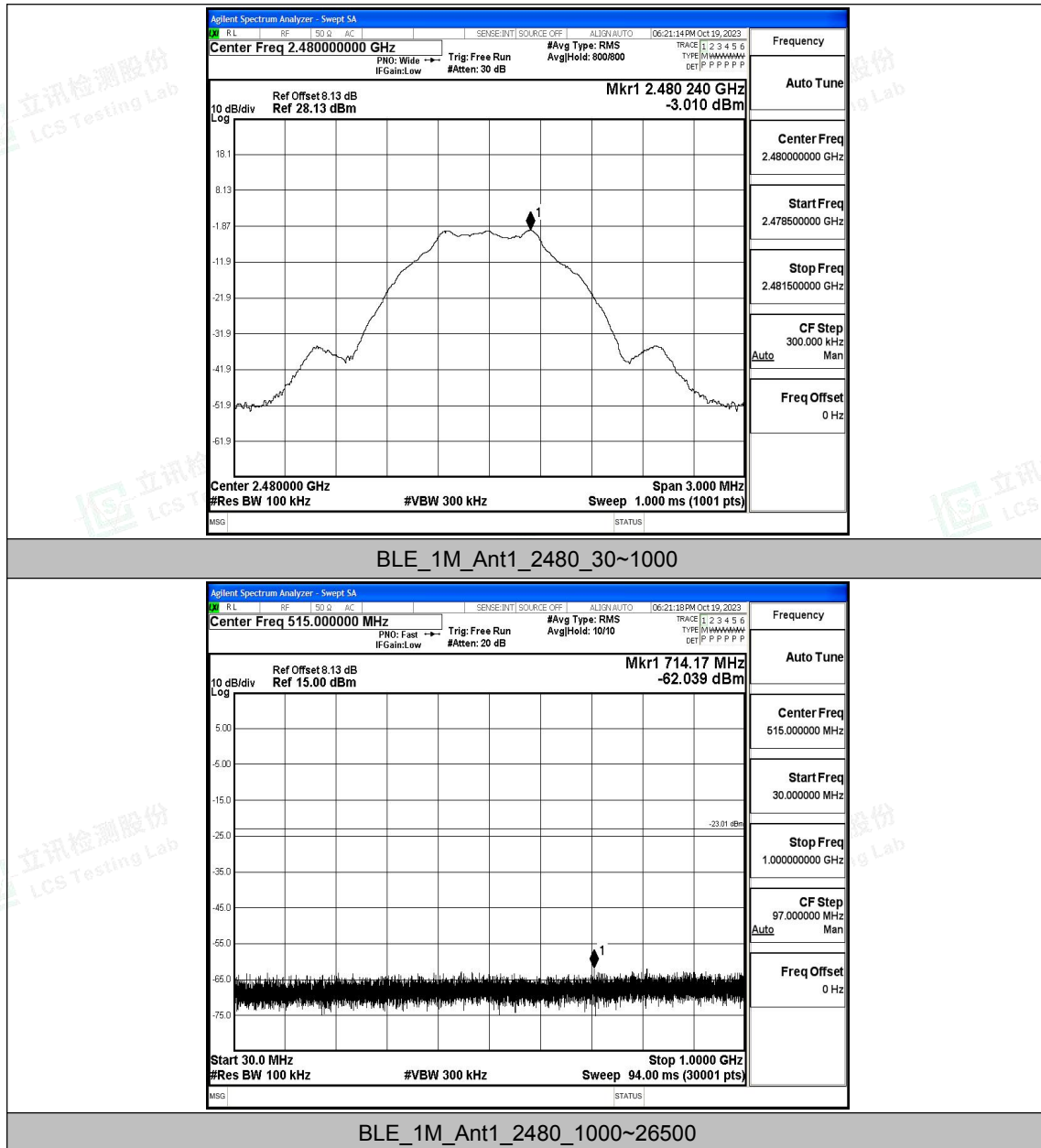


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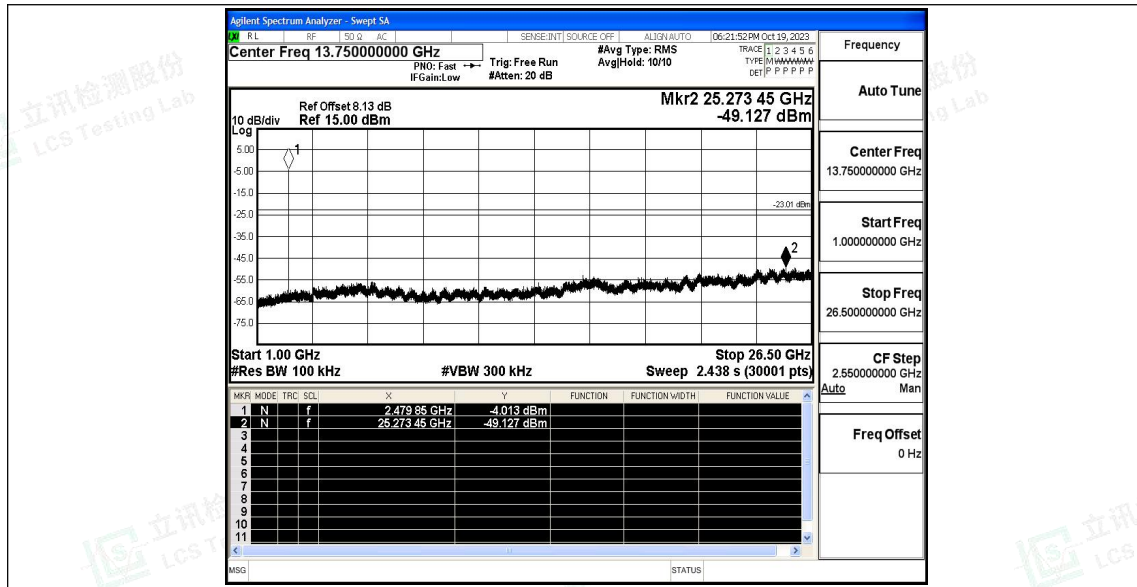


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A.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS



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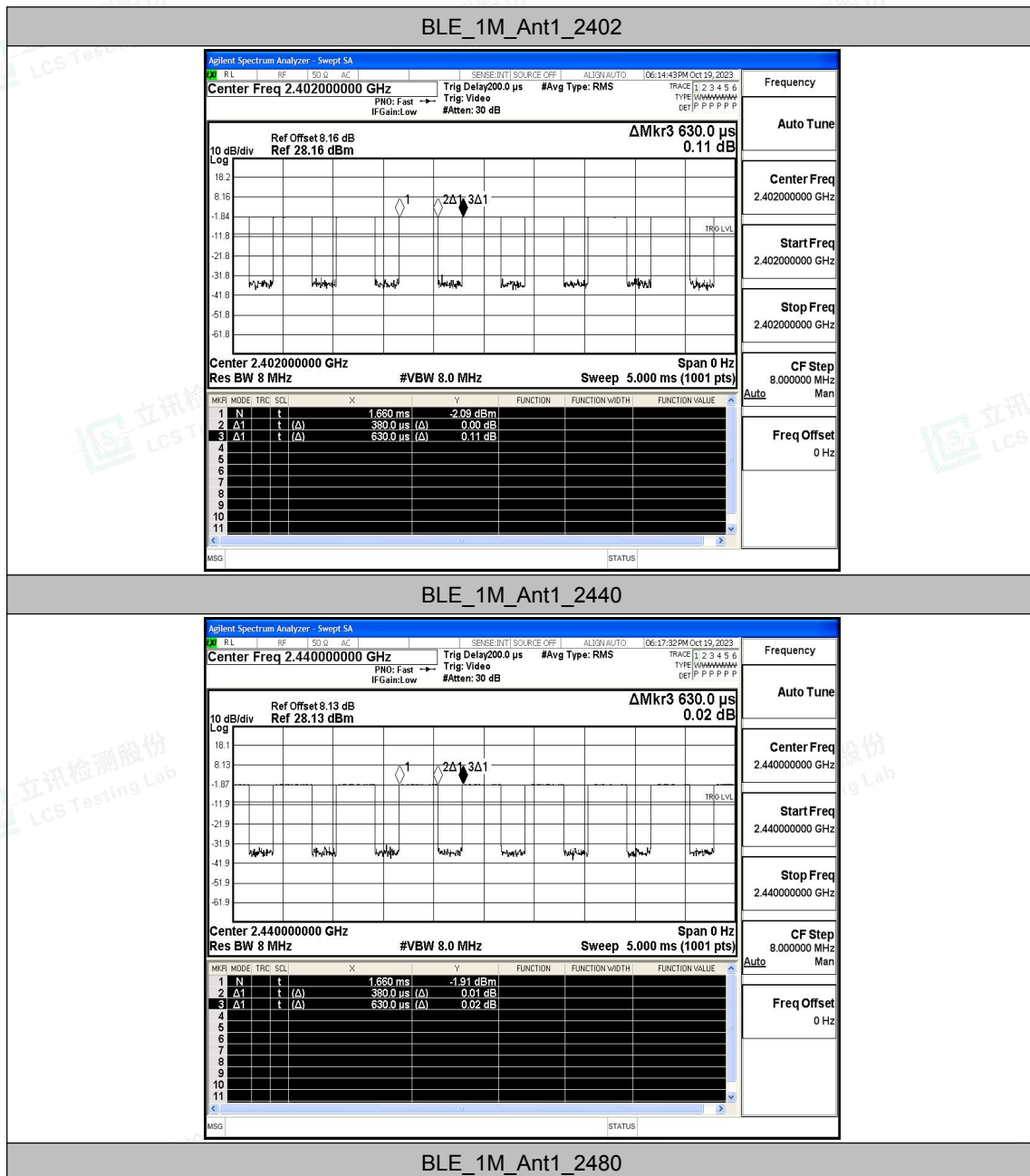
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Test Graphs

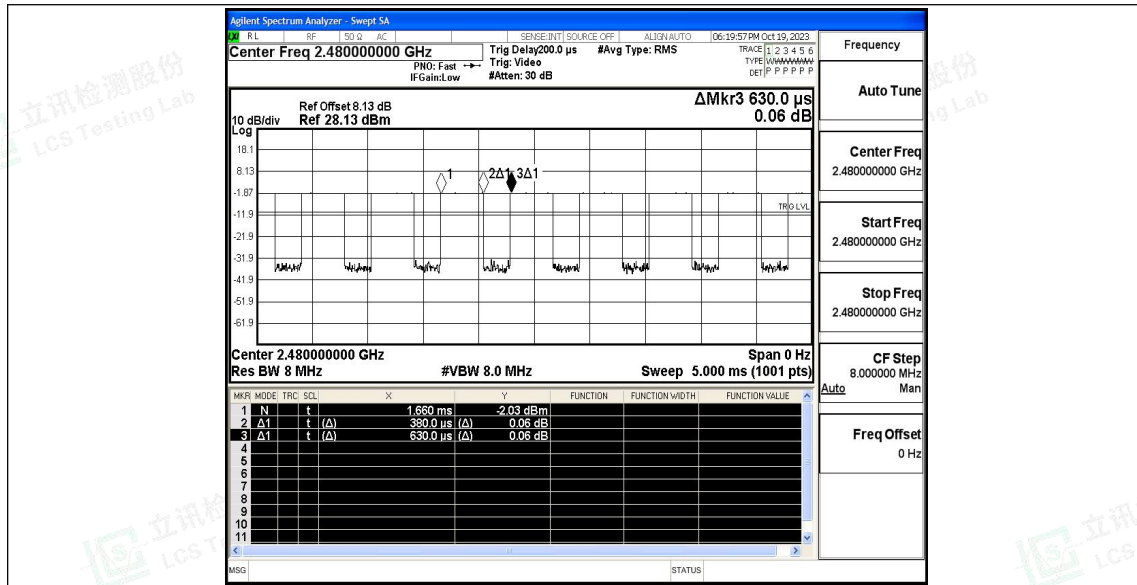


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A.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-58.43	≤-41.20	36.77	≤54	PASS
				AV	2386.625	-57.67	≤-41.20	37.53	≤54	PASS
				AV	2390.000	-58.38	≤-41.20	36.82	≤54	PASS
				Peak	2310.000	-52.19	≤-21.20	43.01	≤74	PASS
				Peak	2367.095	-48.72	≤-21.20	46.48	≤74	PASS
				Peak	2390.000	-52.55	≤-21.20	42.65	≤74	PASS
		High	2480	AV	2483.500	-55.21	≤-41.20	39.99	≤54	PASS
				AV	2483.520	-55.21	≤-41.20	39.99	≤54	PASS
				AV	2500.000	-58.26	≤-41.20	36.94	≤54	PASS
				Peak	2483.500	-50.47	≤-21.20	44.73	≤74	PASS
				Peak	2495.120	-49.29	≤-21.20	45.91	≤74	PASS
				Peak	2500.000	-51.2	≤-21.20	44.00	≤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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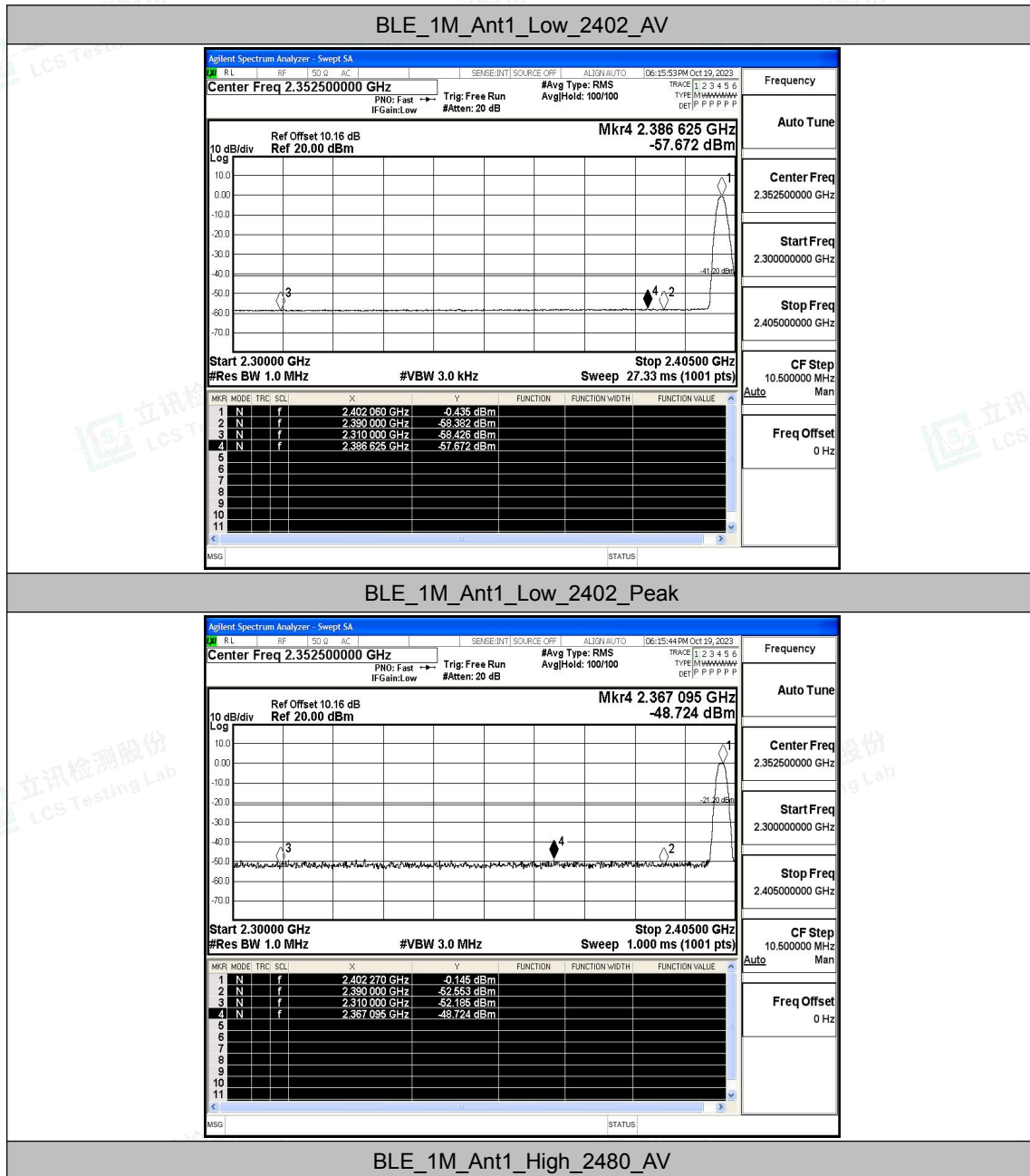
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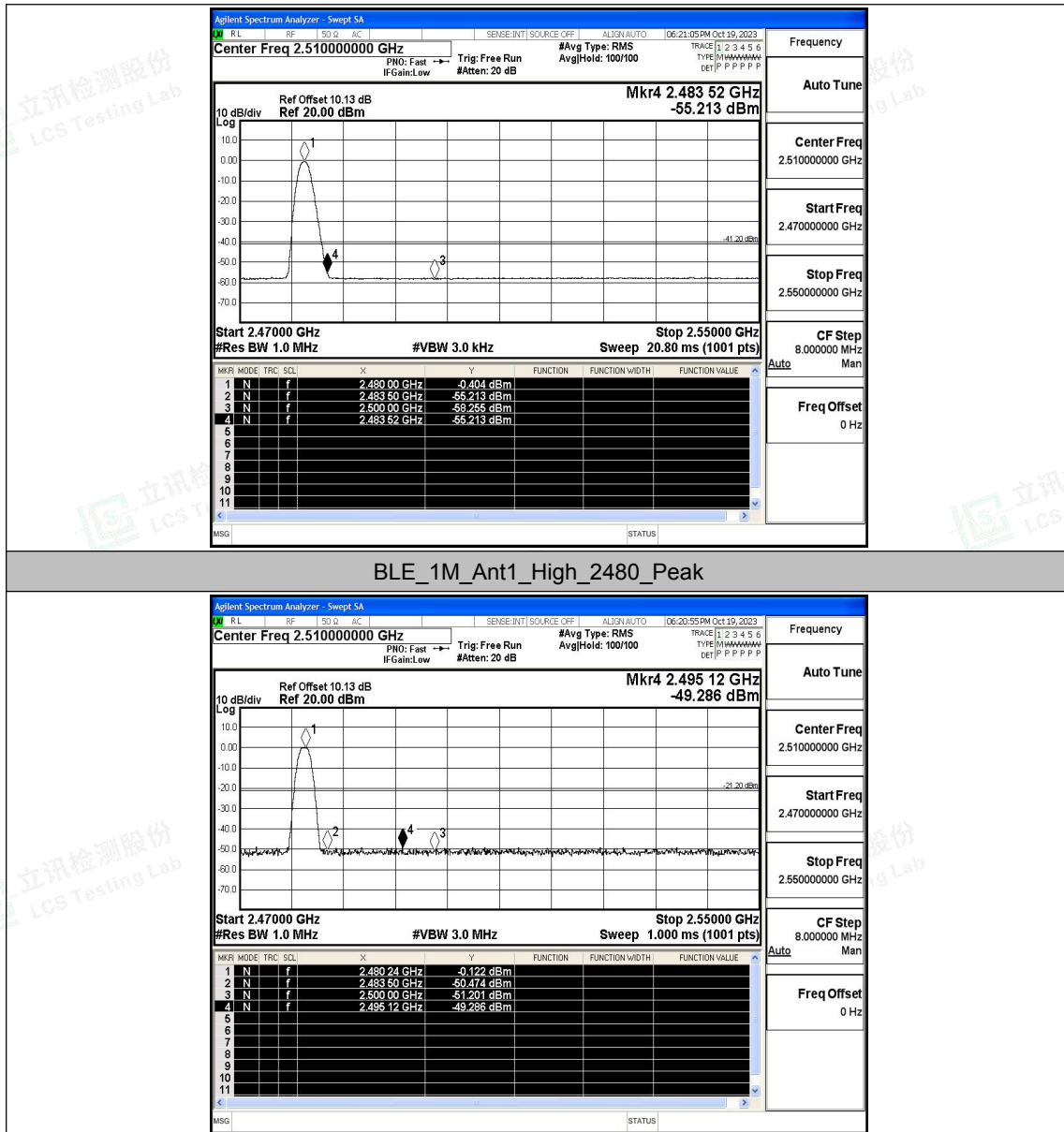


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