



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Test Model: FE75 pro

Environmental Conditions

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



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant	2402	1.160	2401.416	2402.576	0.5	PASS
		2440	1.160	2439.412	2440.572	0.5	PASS
		2480	1.156	2479.412	2480.568	0.5	PASS





Test Graphs

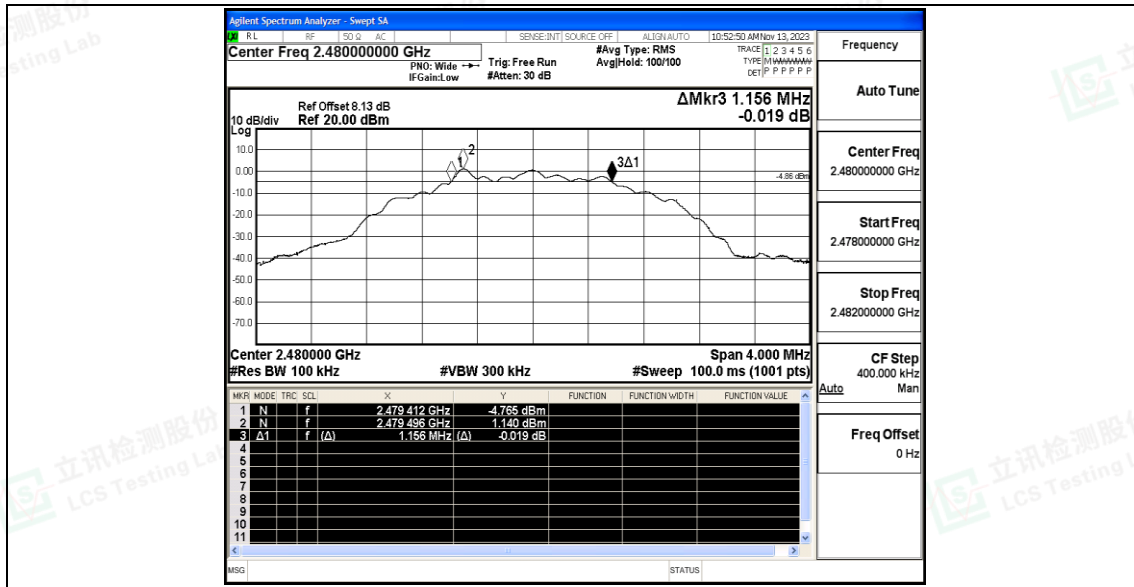


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A.2 Maximum peak conducted output power

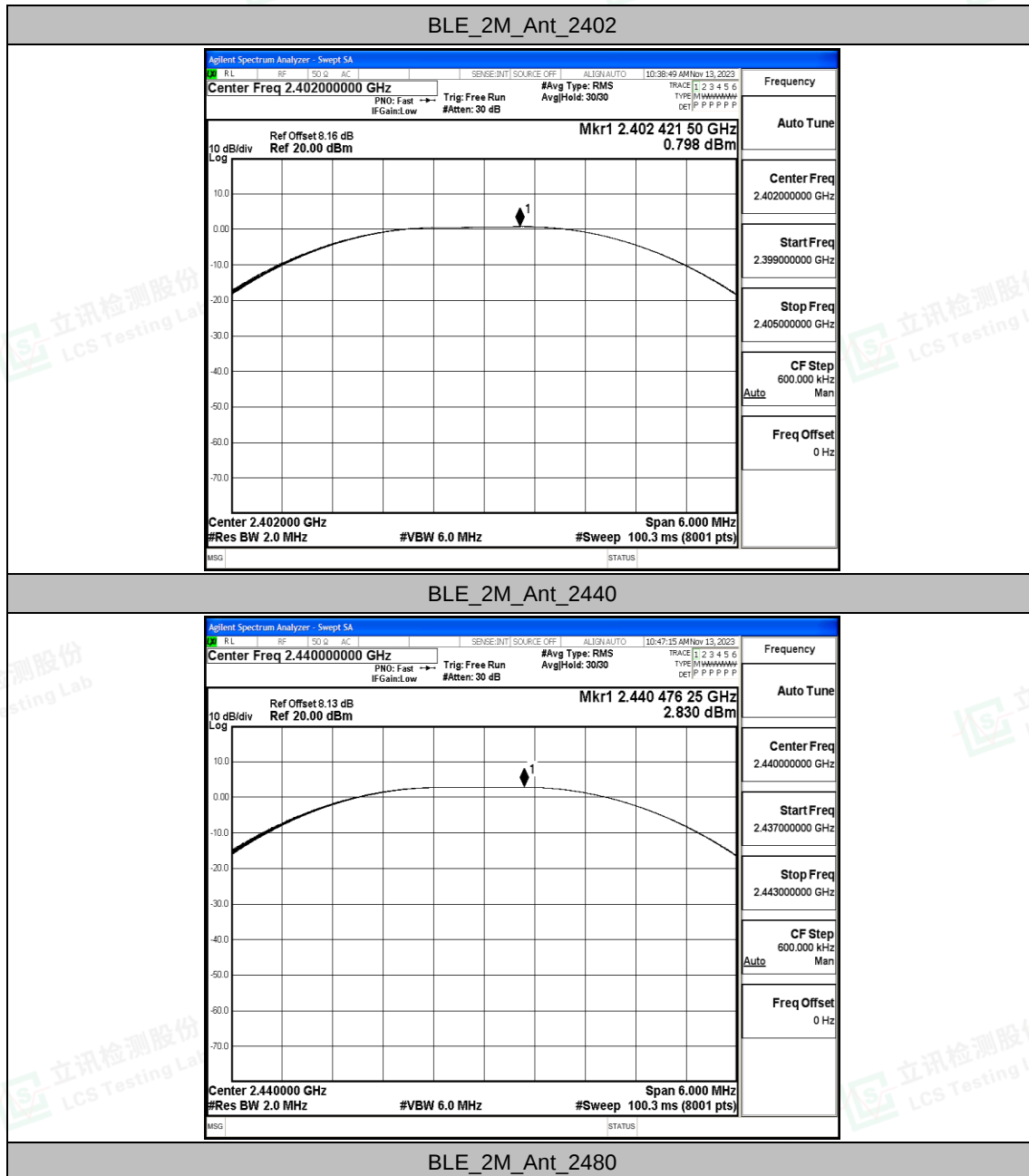
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant	2402	0.8	≤30	PASS
		2440	2.83	≤30	PASS
		2480	1.64	≤30	PASS





Test Graphs

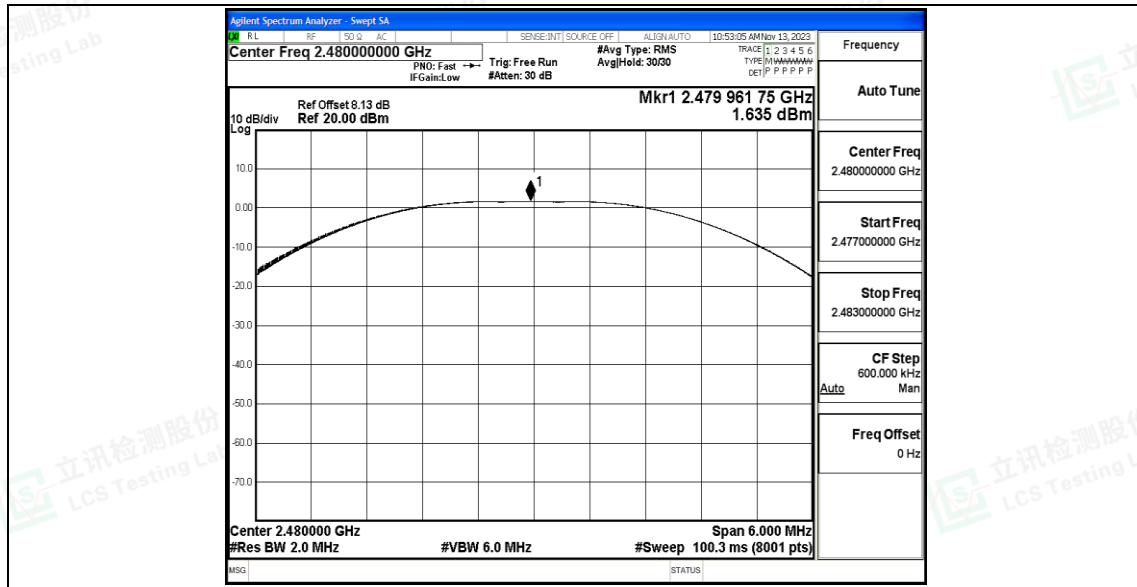


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A.3 Maximum power spectral density

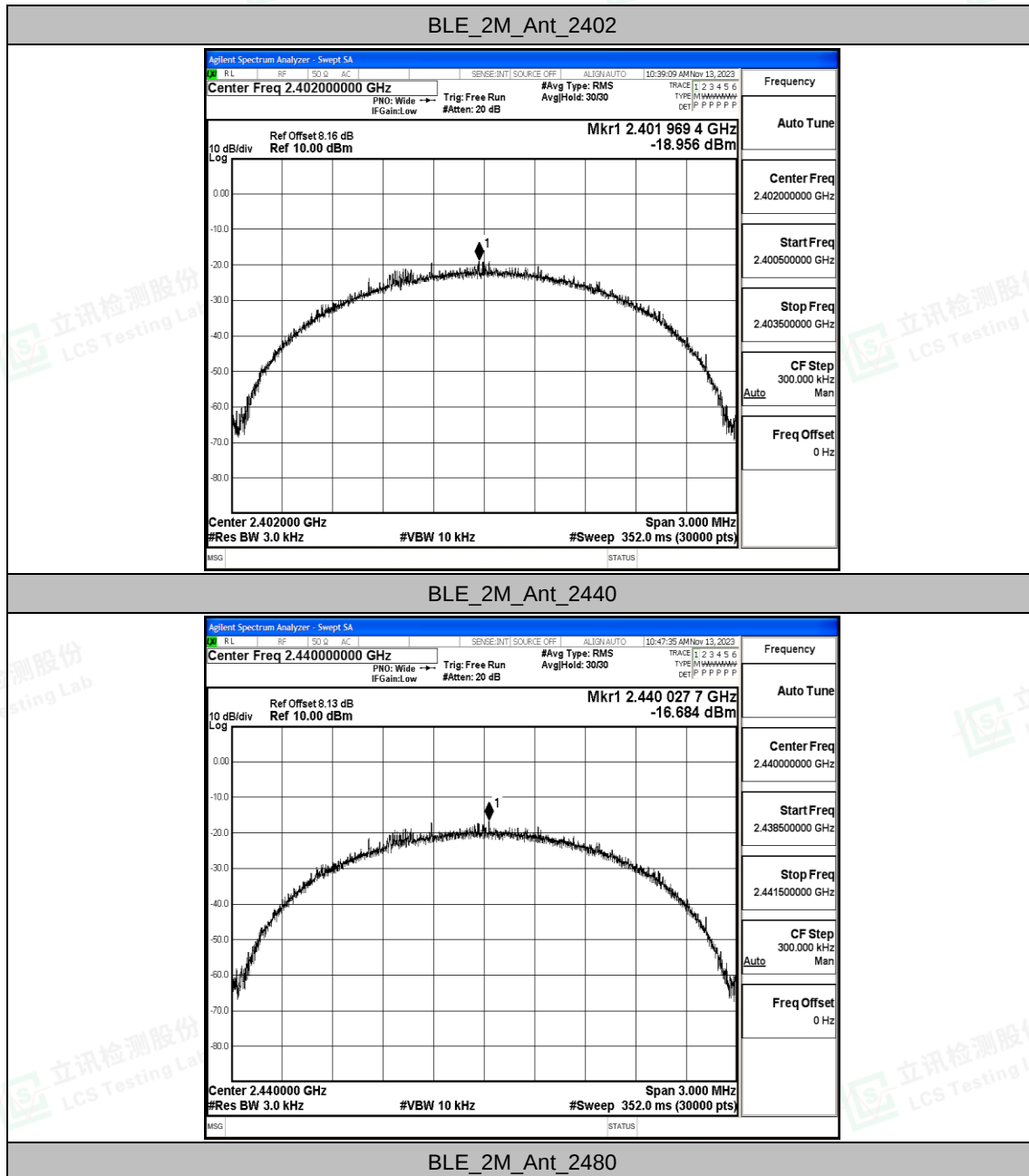
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_2M	Ant	2402	-18.96	≤8.00	PASS
		2440	-16.68	≤8.00	PASS
		2480	-17.88	≤8.00	PASS





Test Graphs

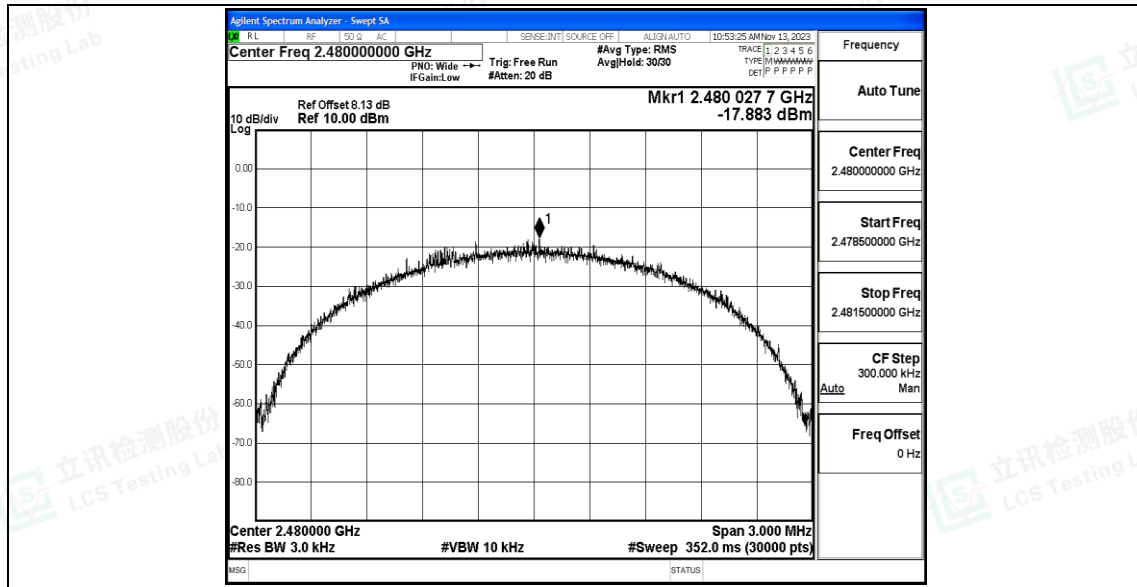


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant	Low	2402	-0.40	-46.09	≤ -20.4	PASS
		High	2480	1.25	-49.67	≤ -18.75	PASS





Test Graphs



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A.5 Conducted Spurious Emission

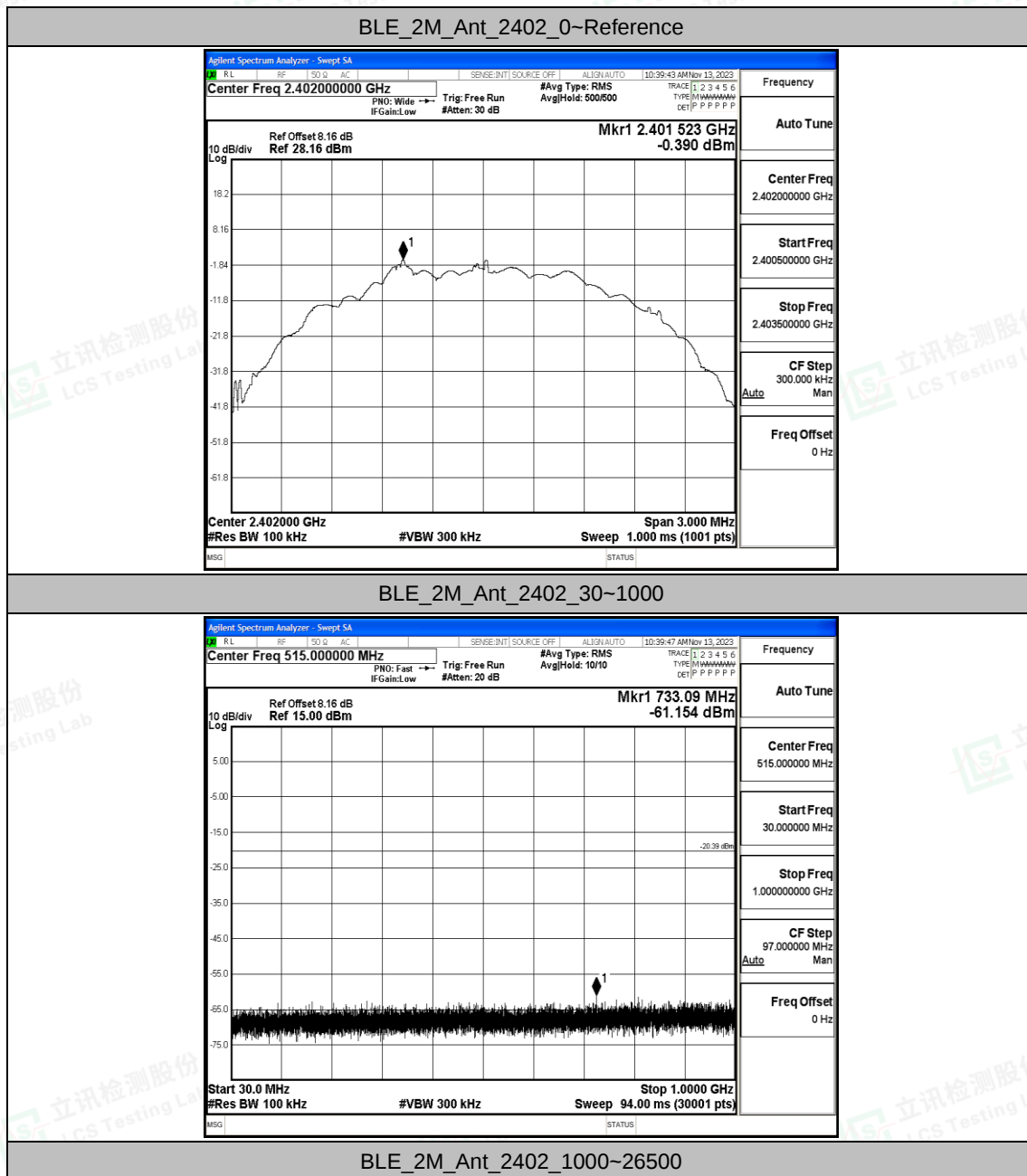
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant	2402	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-61.15	≤-20.39	PASS
			1000~26500	-0.39	-49.59	≤-20.39	PASS
		2440	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-60.95	≤-17.72	PASS
			1000~26500	2.28	-49.46	≤-17.72	PASS
		2480	Reference	1.15	1.15	---	PASS
			30~1000	1.15	-61.22	≤-18.85	PASS
			1000~26500	1.15	-49.6	≤-18.85	PASS





Test Graphs

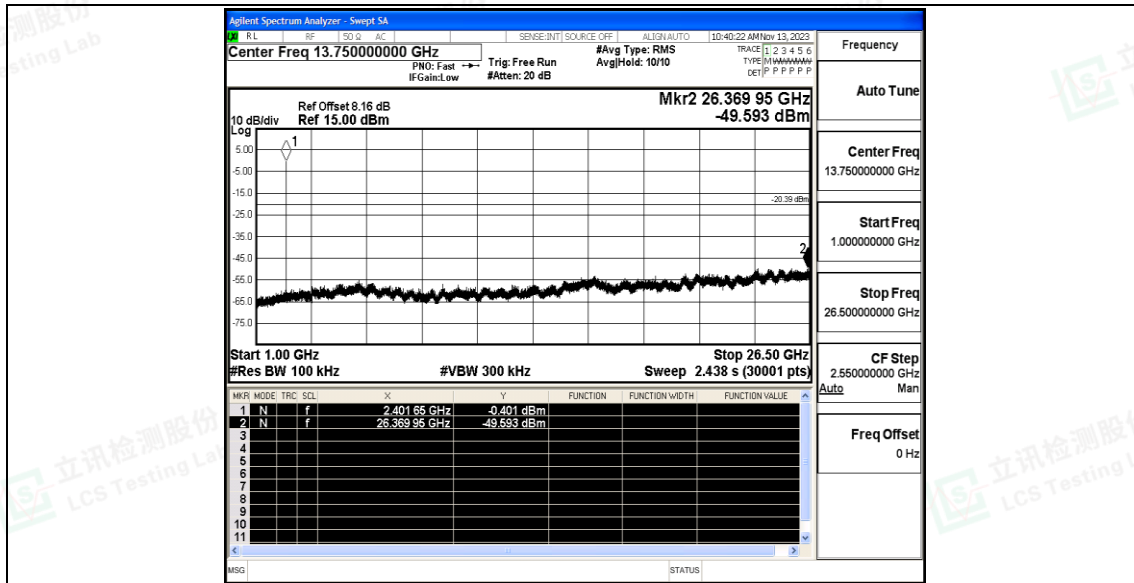


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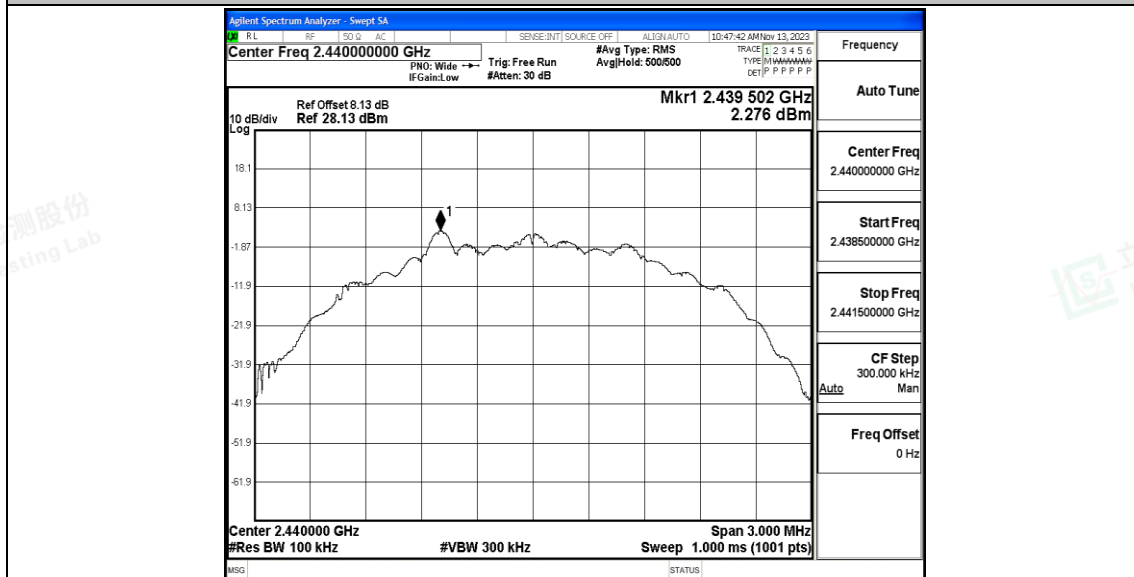
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BLE_2M_Ant_2440_0~Reference



BLE_2M_Ant_2440_30~1000

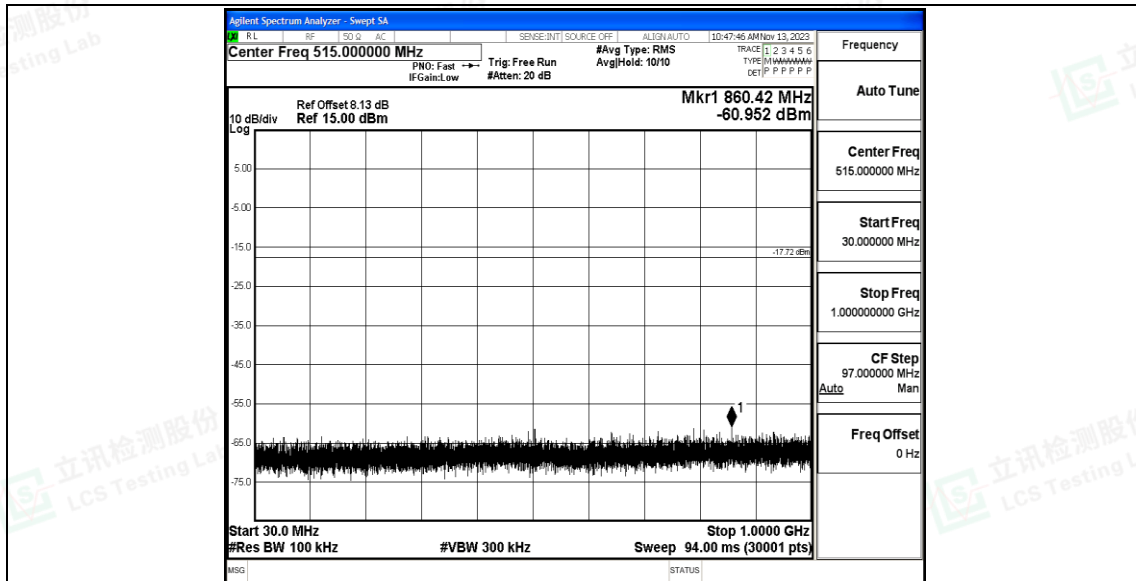


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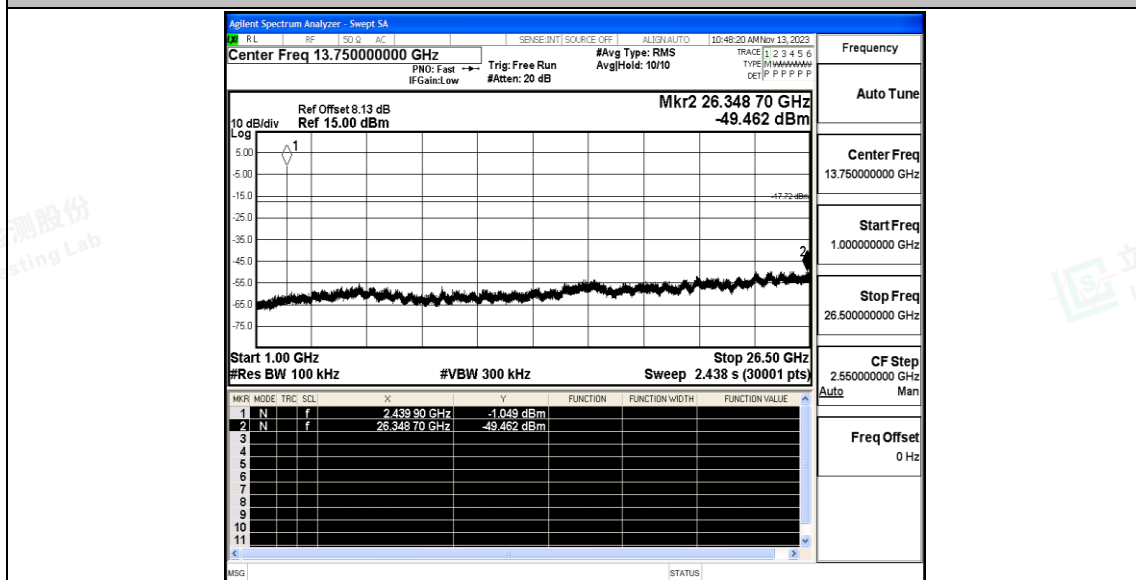
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BLE_2M_Ant_2440_1000~26500



BLE_2M_Ant_2480_0~Reference

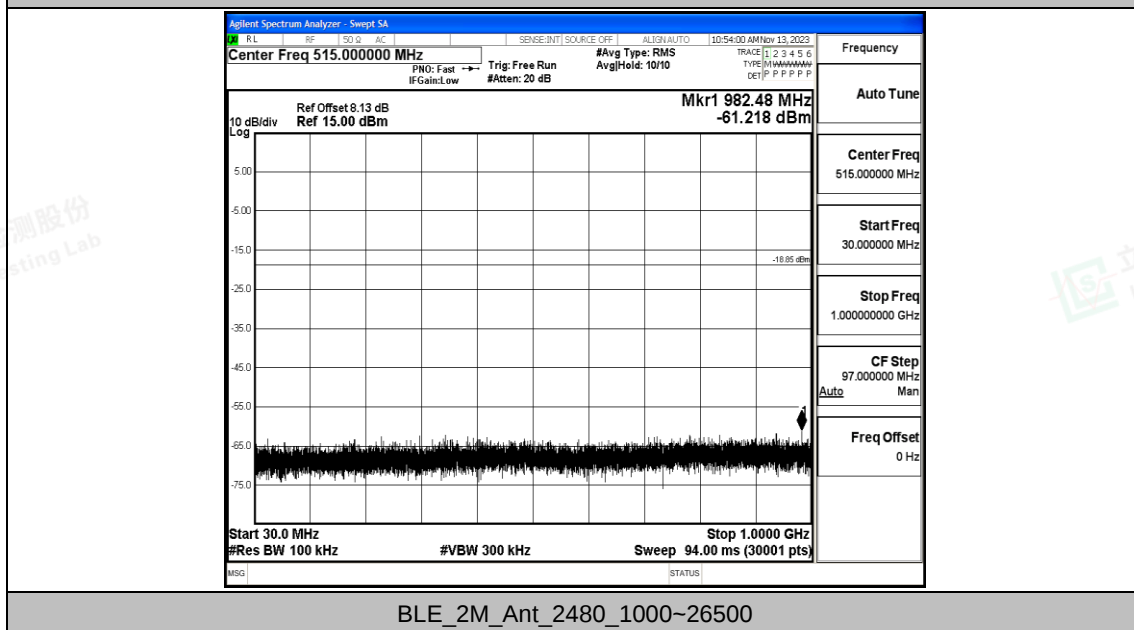
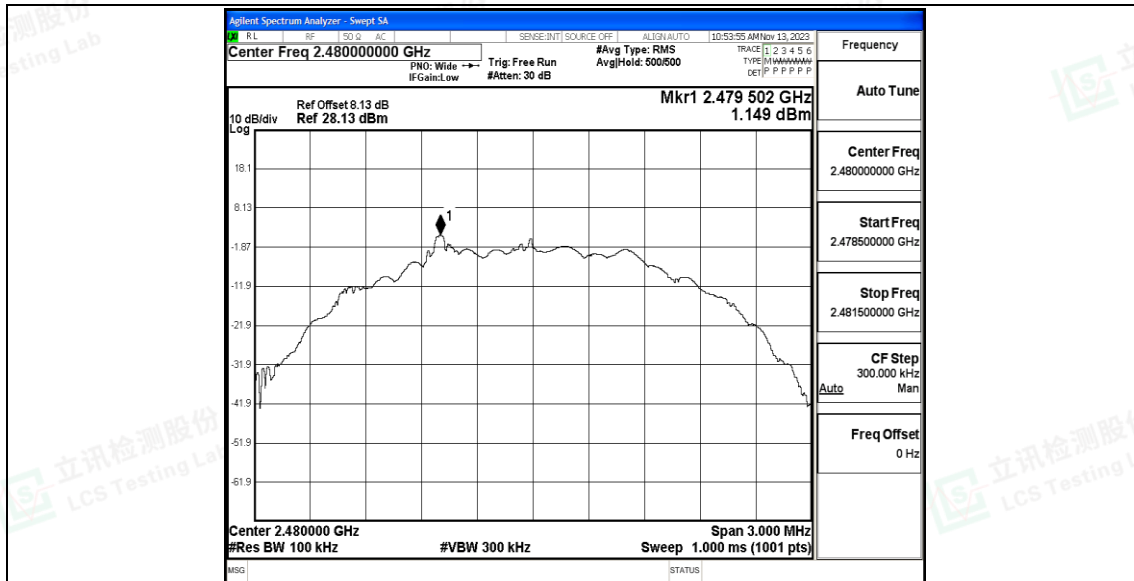


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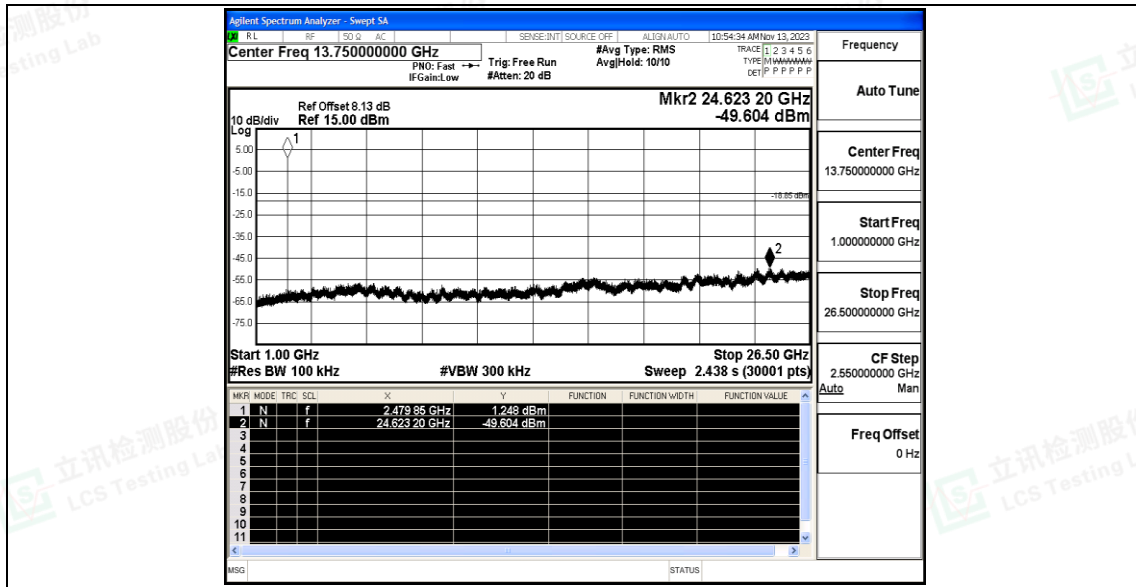


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A.6 Duty Cycle

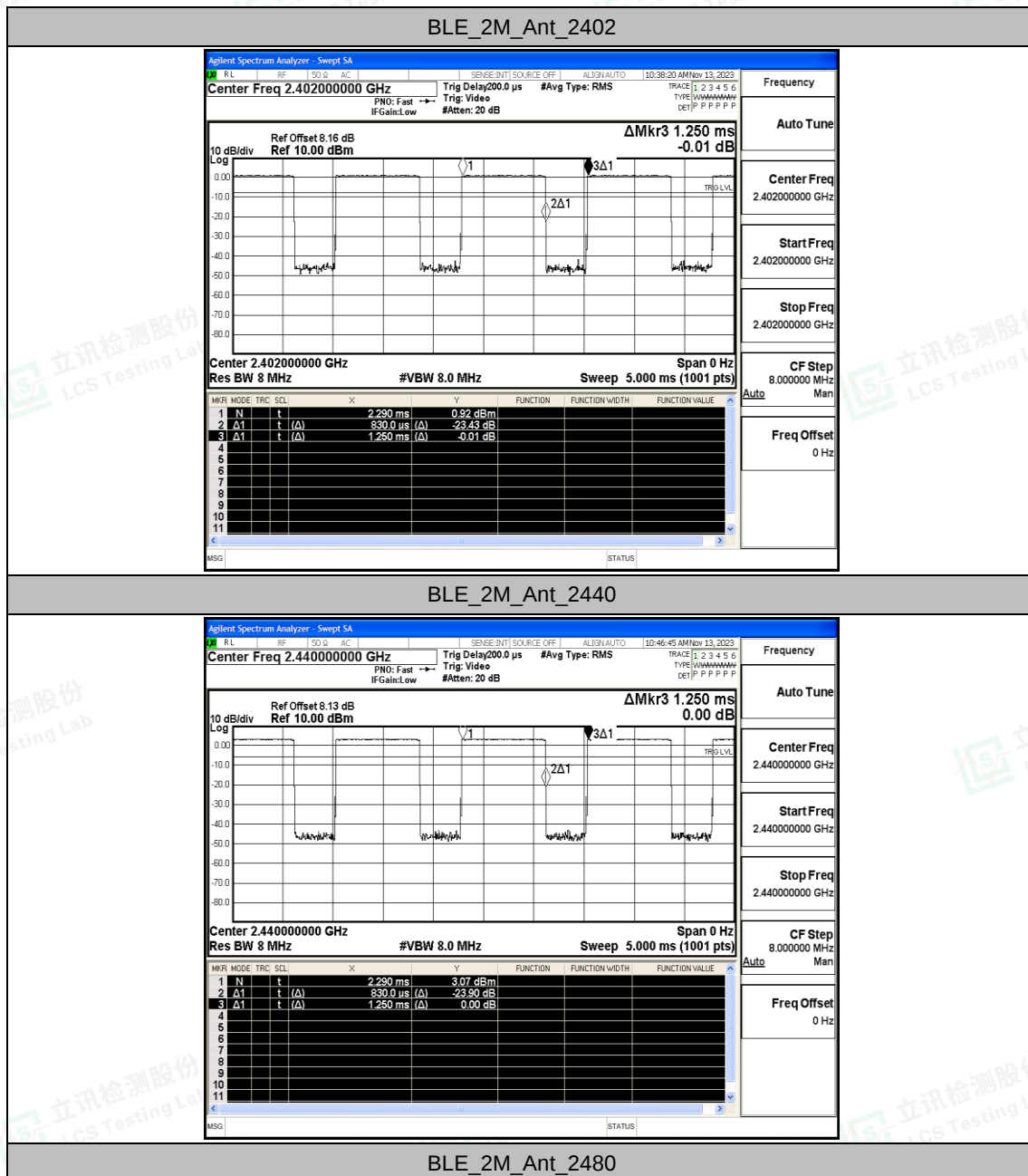
Test Result

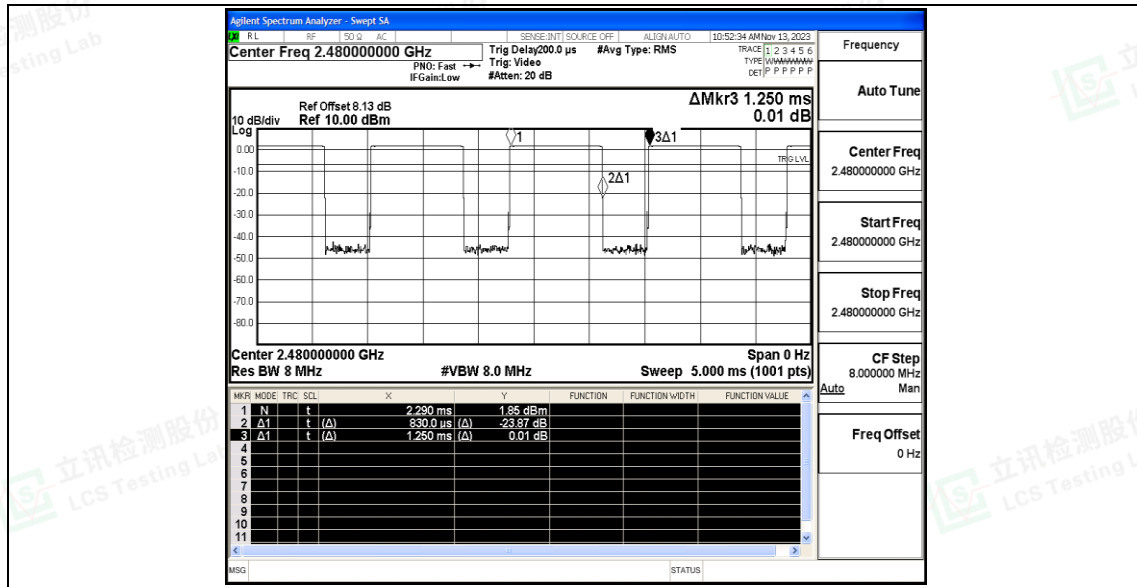
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_2M	Ant	2402	0.83	1.25	0.6640	66.40	1.78	1.20	---	---
		2440	0.83	1.25	0.6640	66.40	1.78	1.20	---	---
		2480	0.83	1.25	0.6640	66.40	1.78	1.20	---	---





Test Graphs





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A.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_2M	Ant	Low	2402	AV	2310.000	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2388.515	-48.16	≤-41.20	47.04	≤54	PASS
				AV	2390.000	-48.47	≤-41.20	46.73	≤54	PASS
				Peak	2310.000	-40.96	≤-21.20	54.24	≤74	PASS
				Peak	2381.270	-37.94	≤-21.20	57.26	≤74	PASS
				Peak	2390.000	-40.89	≤-21.20	54.31	≤74	PASS
		High	2480	AV	2483.500	-46.47	≤-41.20	48.73	≤54	PASS
				AV	2483.520	-46.47	≤-41.20	48.73	≤54	PASS
				AV	2500.000	-48.37	≤-41.20	46.83	≤54	PASS
				Peak	2483.500	-41.98	≤-21.20	53.22	≤74	PASS
				Peak	2486.240	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2500.000	-41.44	≤-21.20	53.76	≤74	PASS

Note:

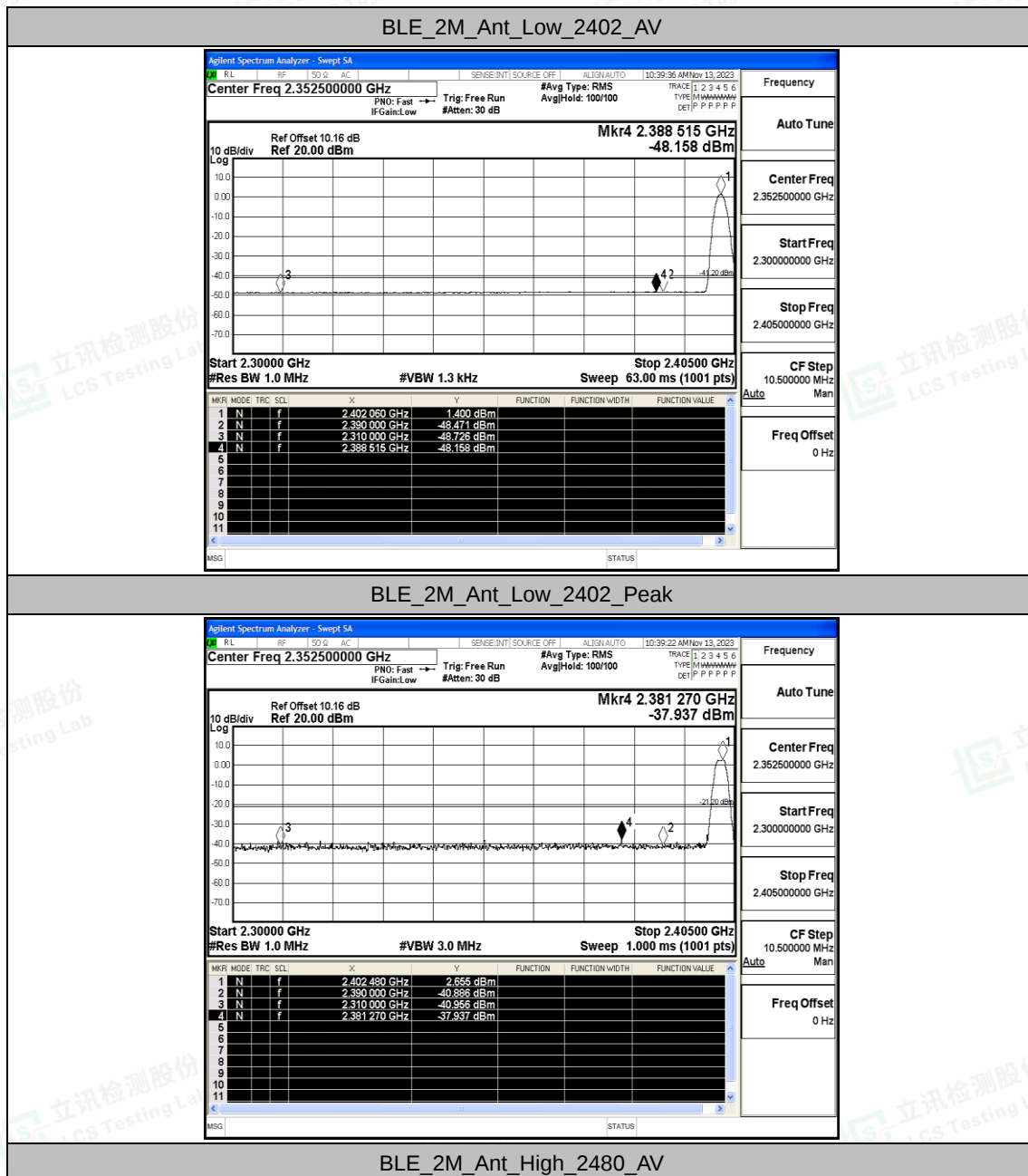
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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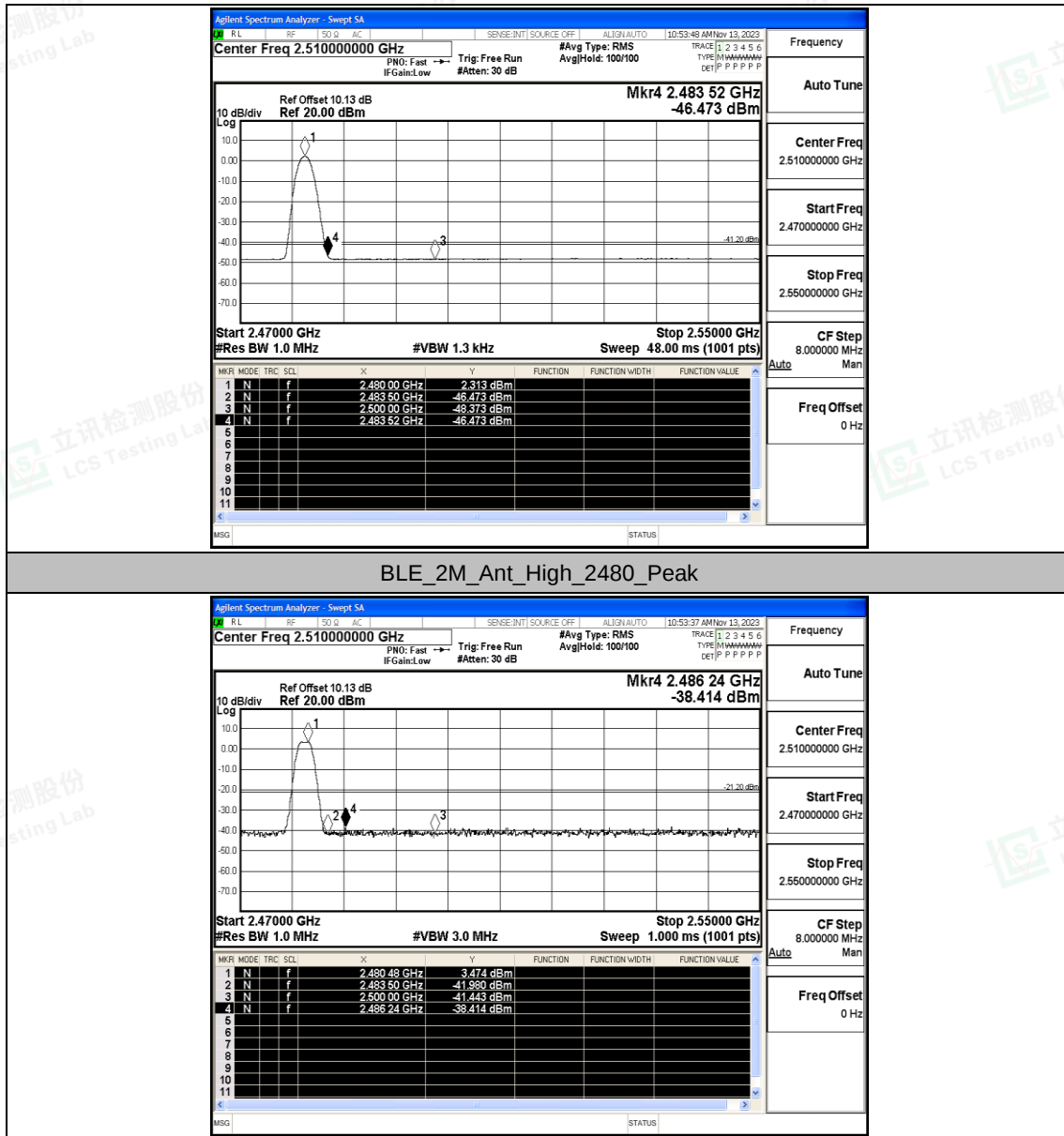


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