



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Fitness Walker

Test Model: CS-WP3

Environmental Conditions

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



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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.632	2402.340	0.5	PASS
		2440	0.708	2439.632	2440.340	0.5	PASS
		2480	0.716	2479.628	2480.344	0.5	PASS



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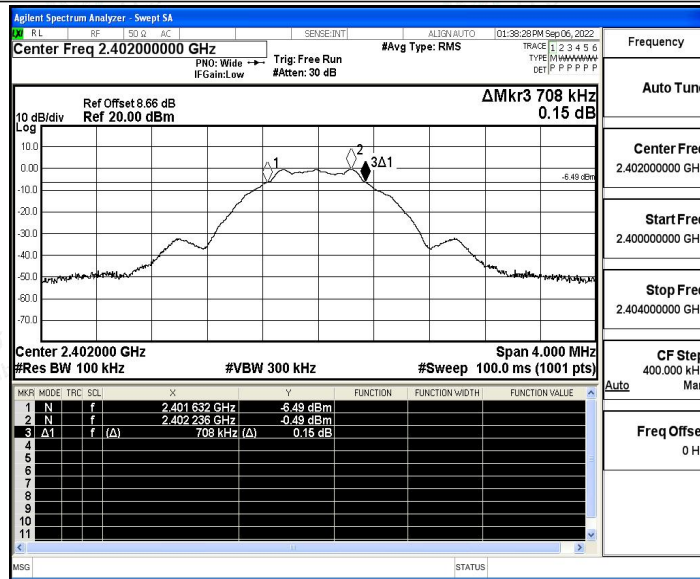
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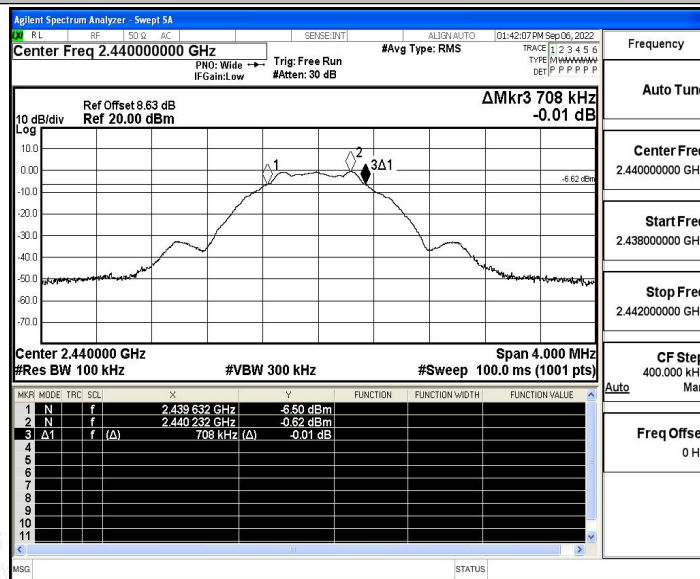


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

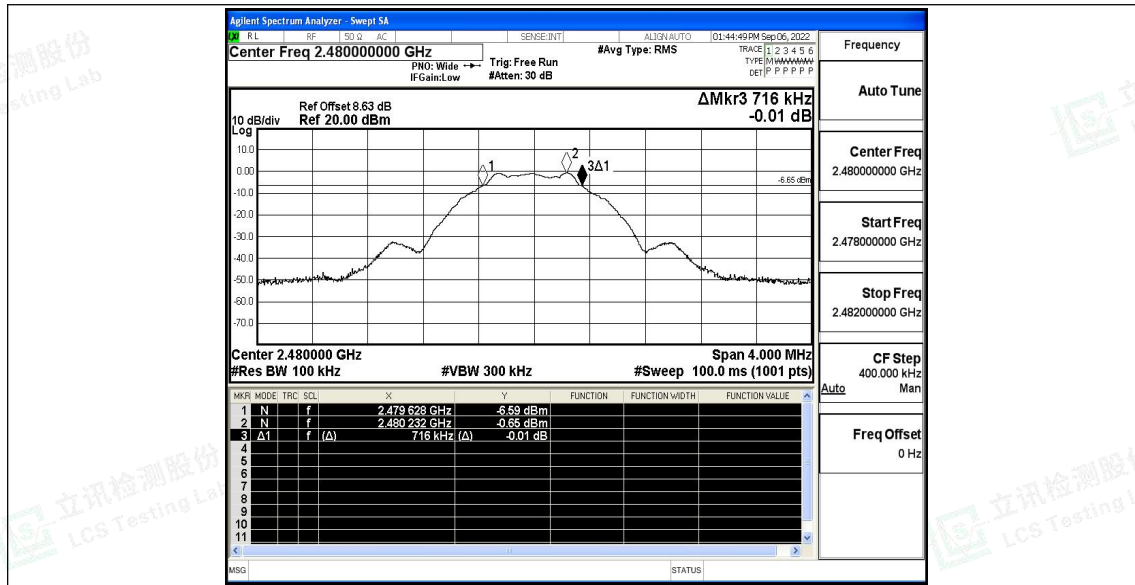


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B.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0579	2401.4732	2402.5311	---	---
		2440	1.0618	2439.4689	2440.5307	---	---
		2480	1.0560	2479.4724	2480.5284	---	---



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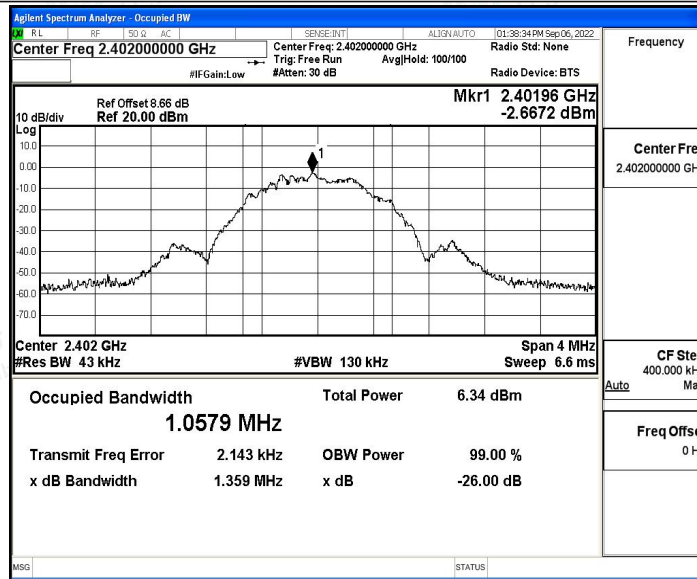
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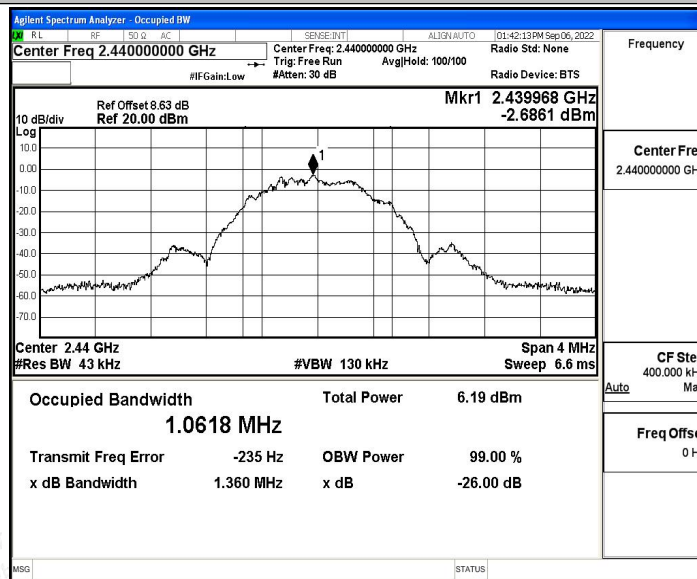


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

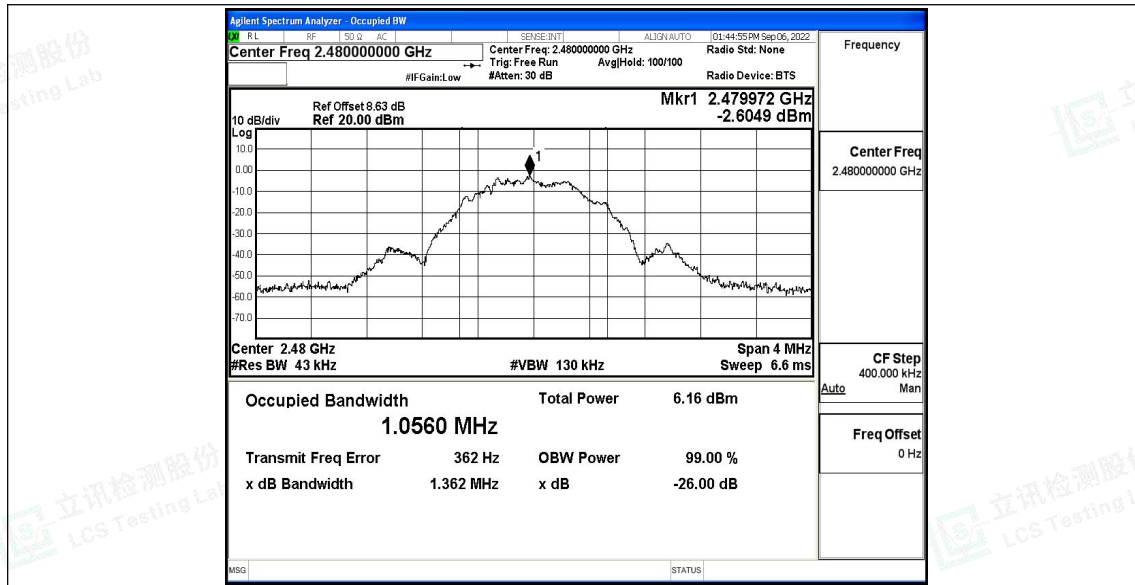


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B.3 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.46	≤30	PASS
		2440	0.34	≤30	PASS
		2480	0.31	≤30	PASS



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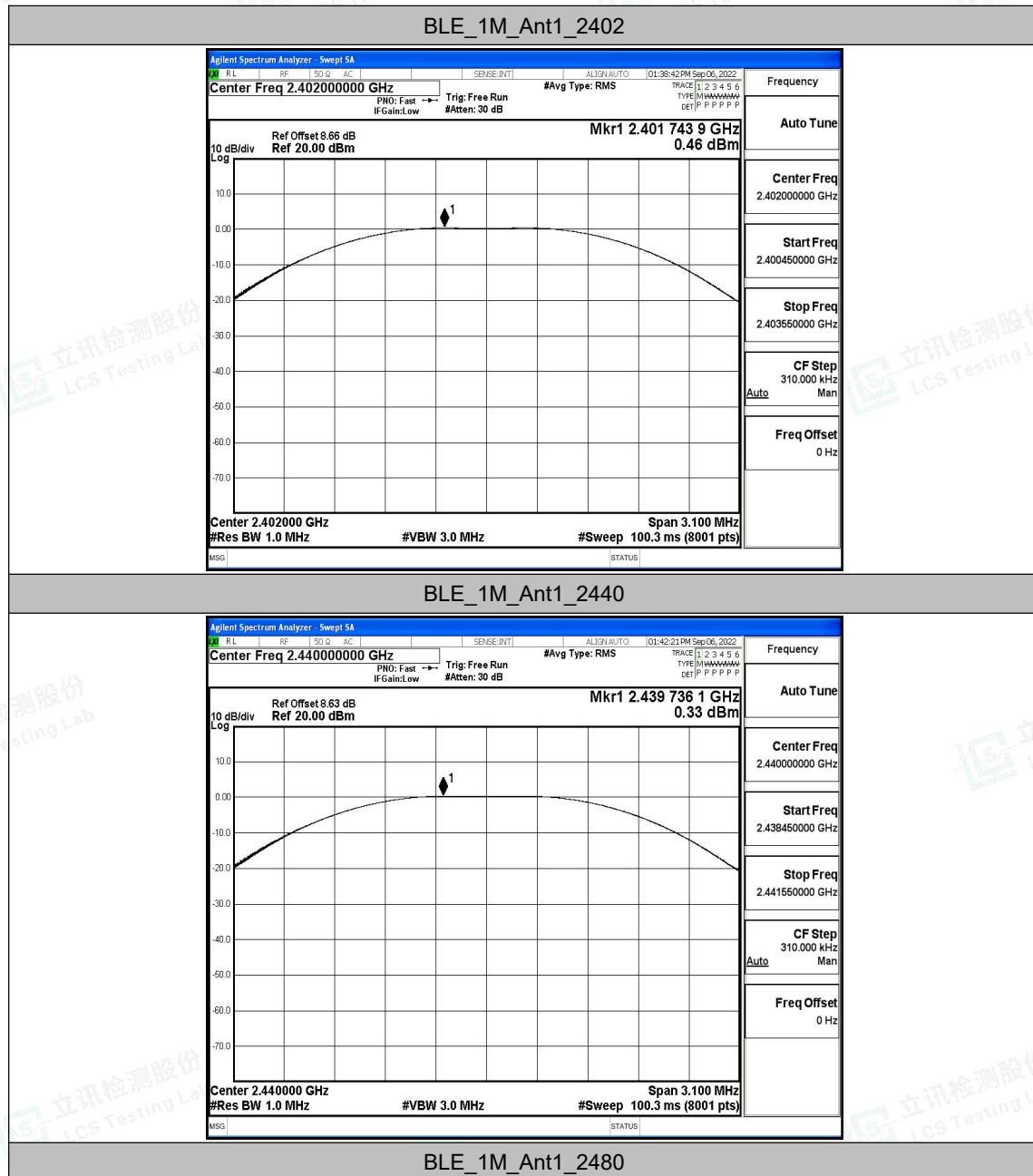
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Test Graphs

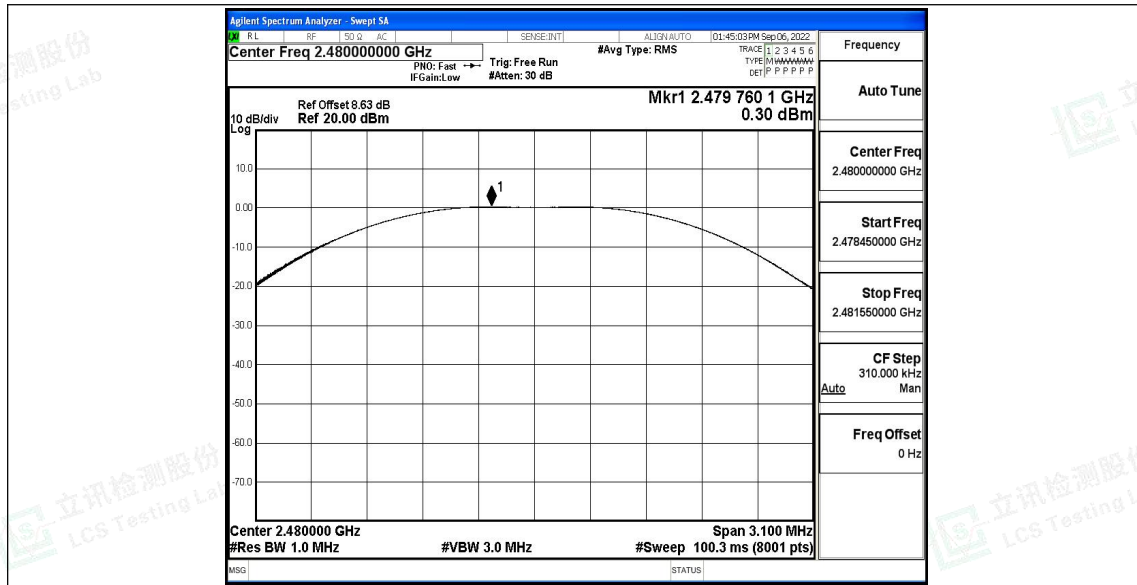


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B.4 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.63	≤8.00	PASS
		2440	-15.13	≤8.00	PASS
		2480	-14.77	≤8.00	PASS



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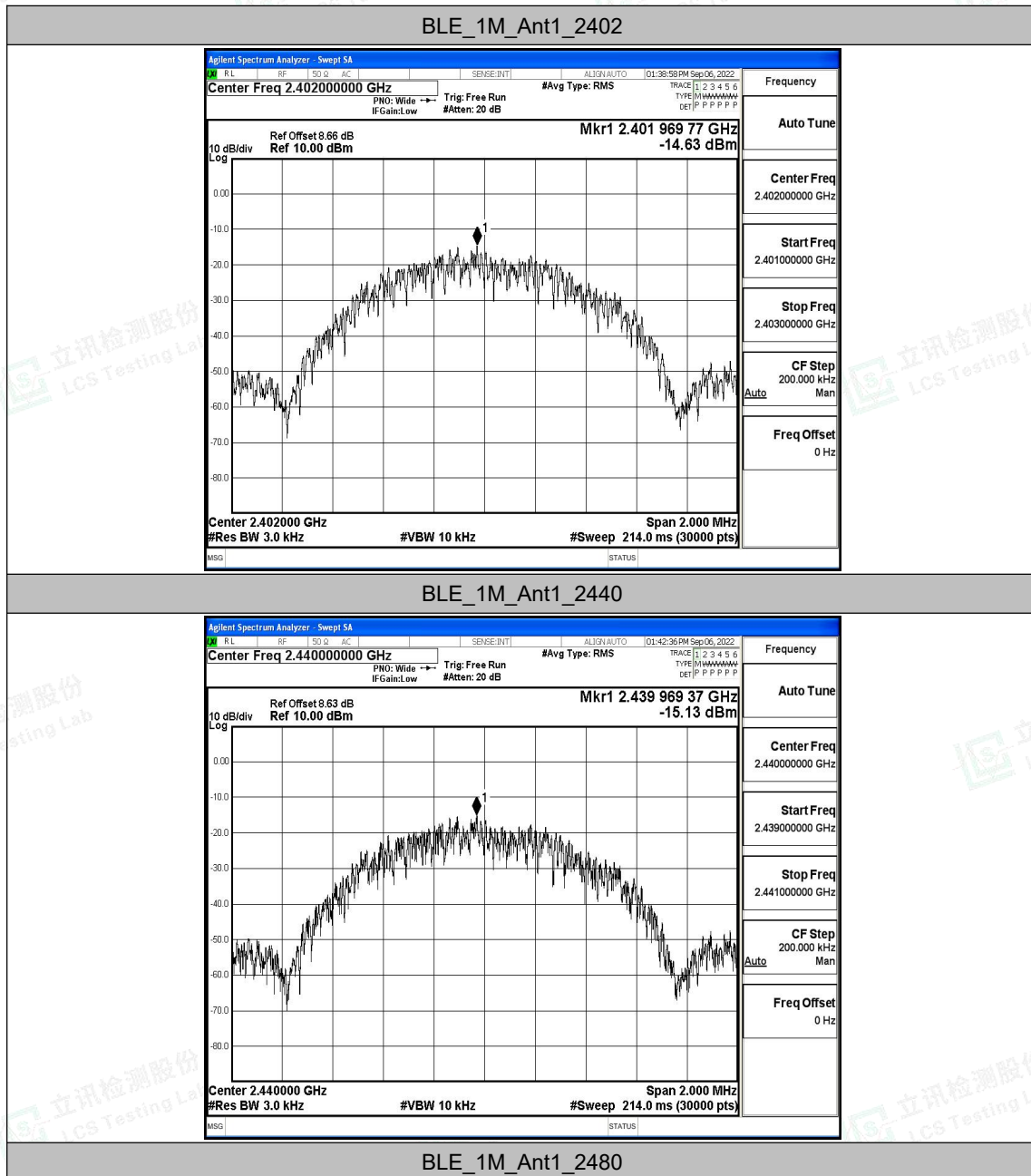
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Test Graphs

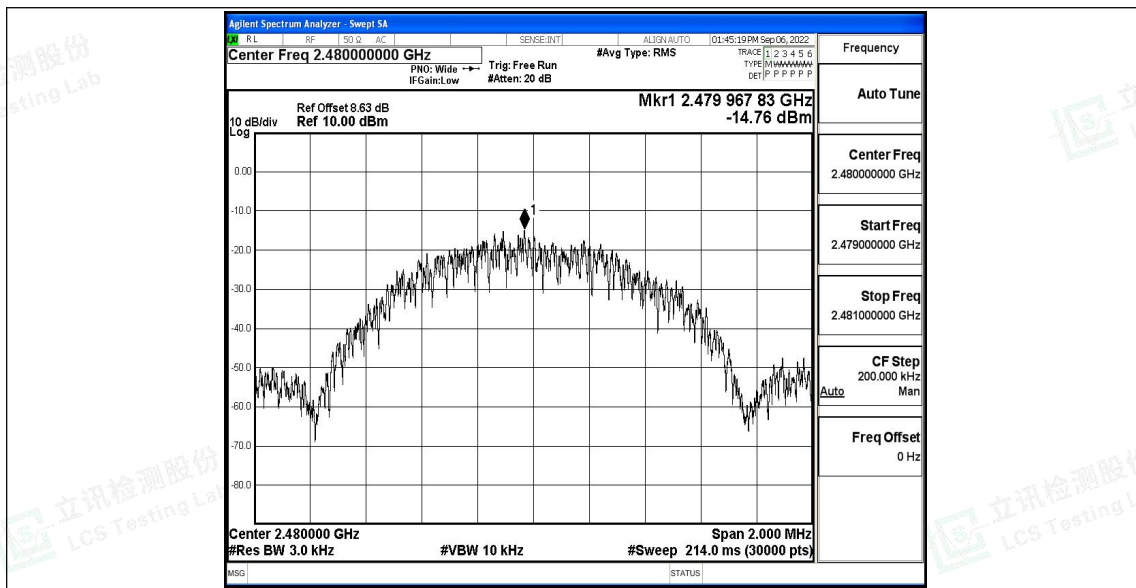


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B.5 Band edge measurements

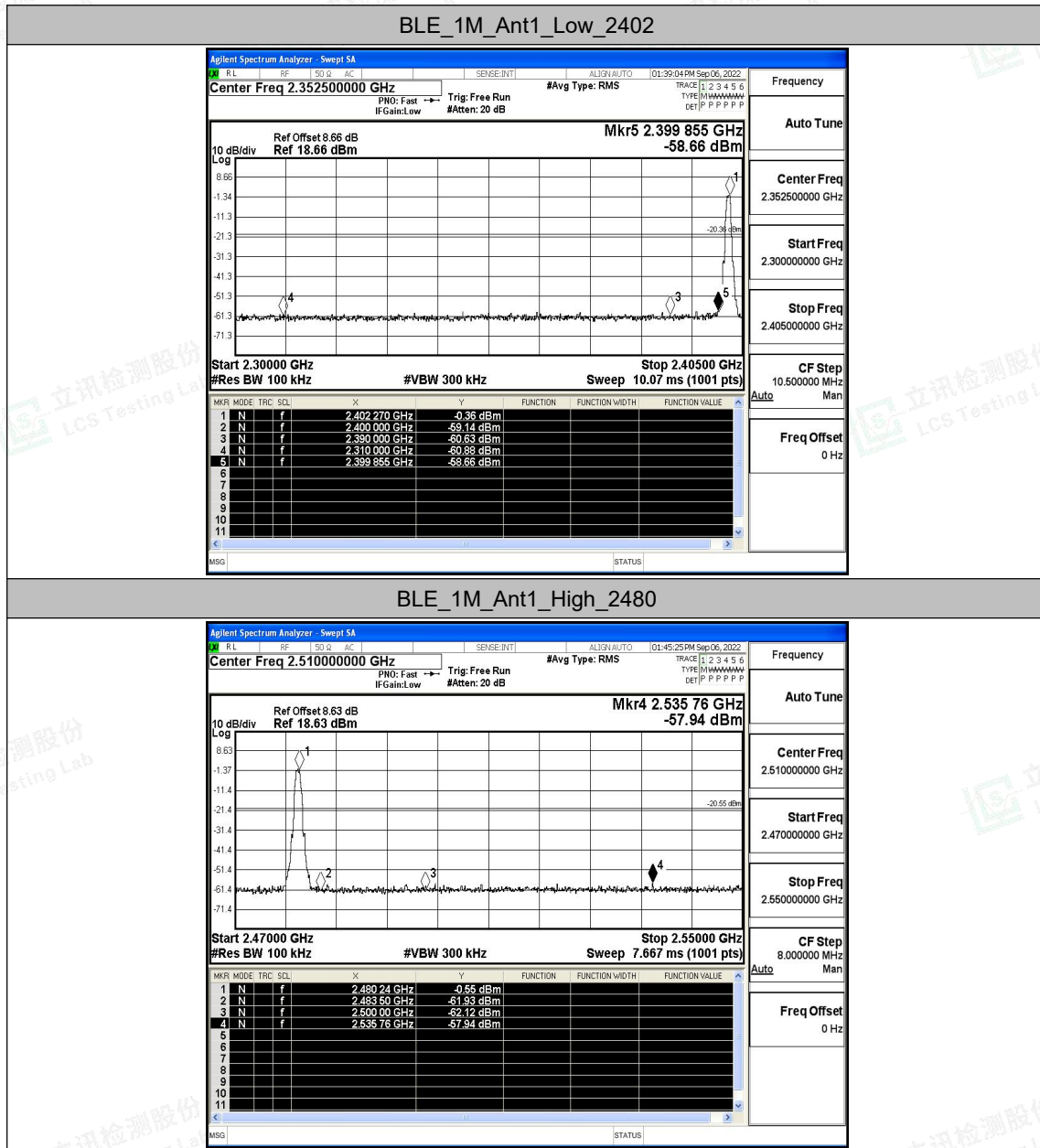
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.36	-58.66	≤-20.36	PASS
		High	2480	-0.55	-57.94	≤-20.55	PASS





Test Graphs



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B.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-60.62	≤-20.65	PASS
			1000~26500	-0.65	-45.71	≤-20.65	PASS
		2440	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-59.73	≤-20.72	PASS
			1000~26500	-0.72	-45.68	≤-20.72	PASS
		2480	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-60.39	≤-20.96	PASS
			1000~26500	-0.96	-46.13	≤-20.96	PASS



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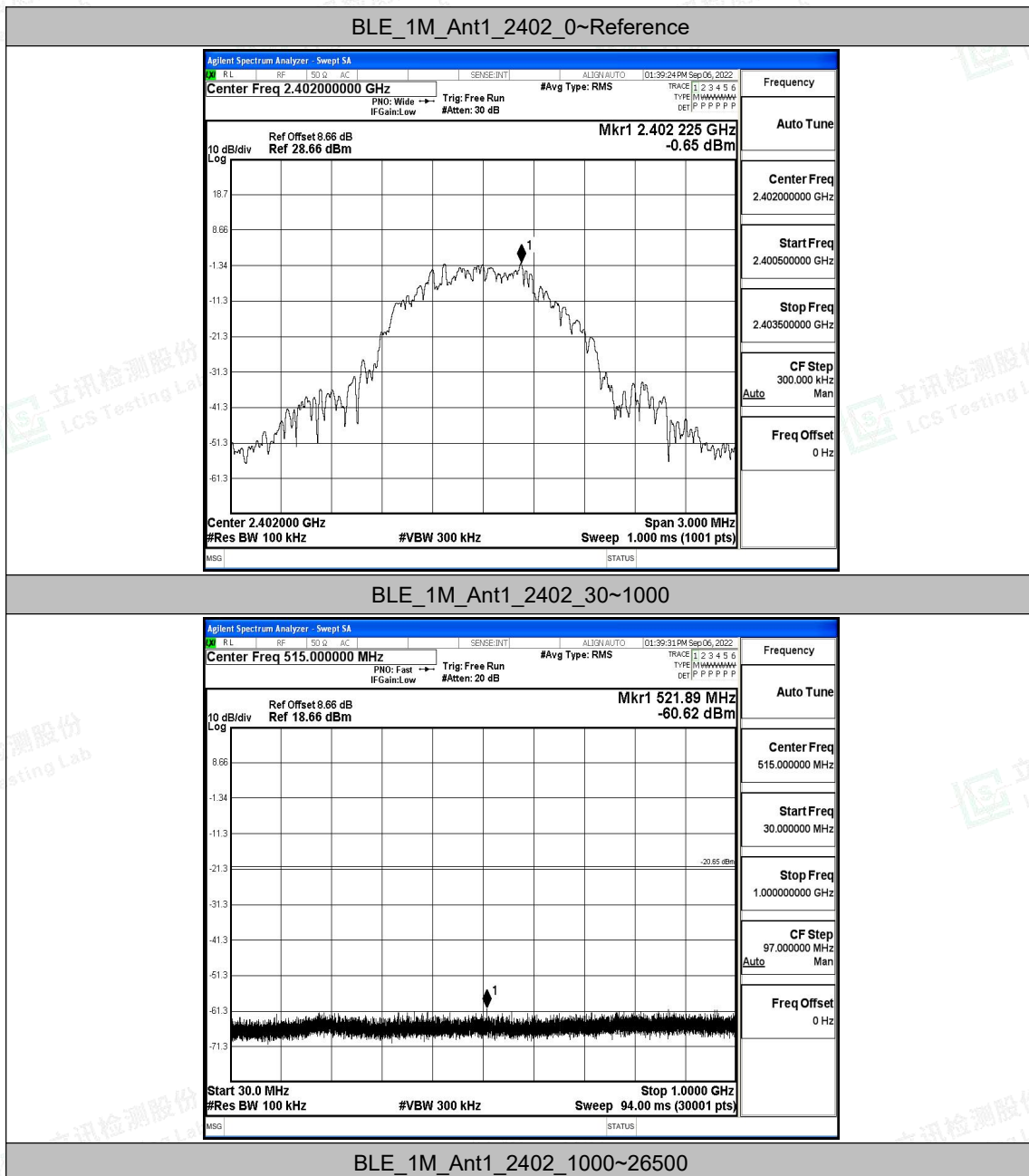
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Test Graphs

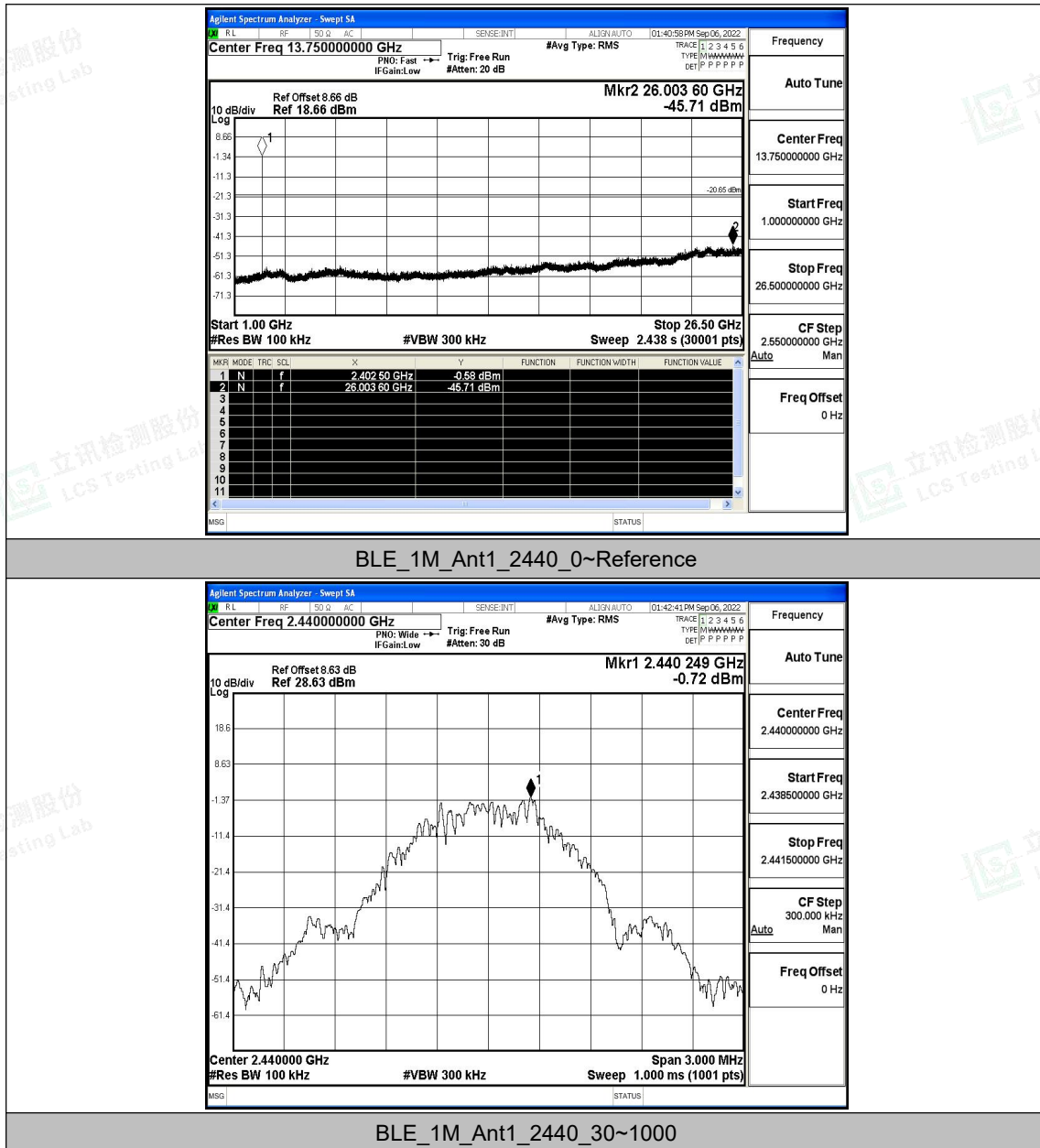


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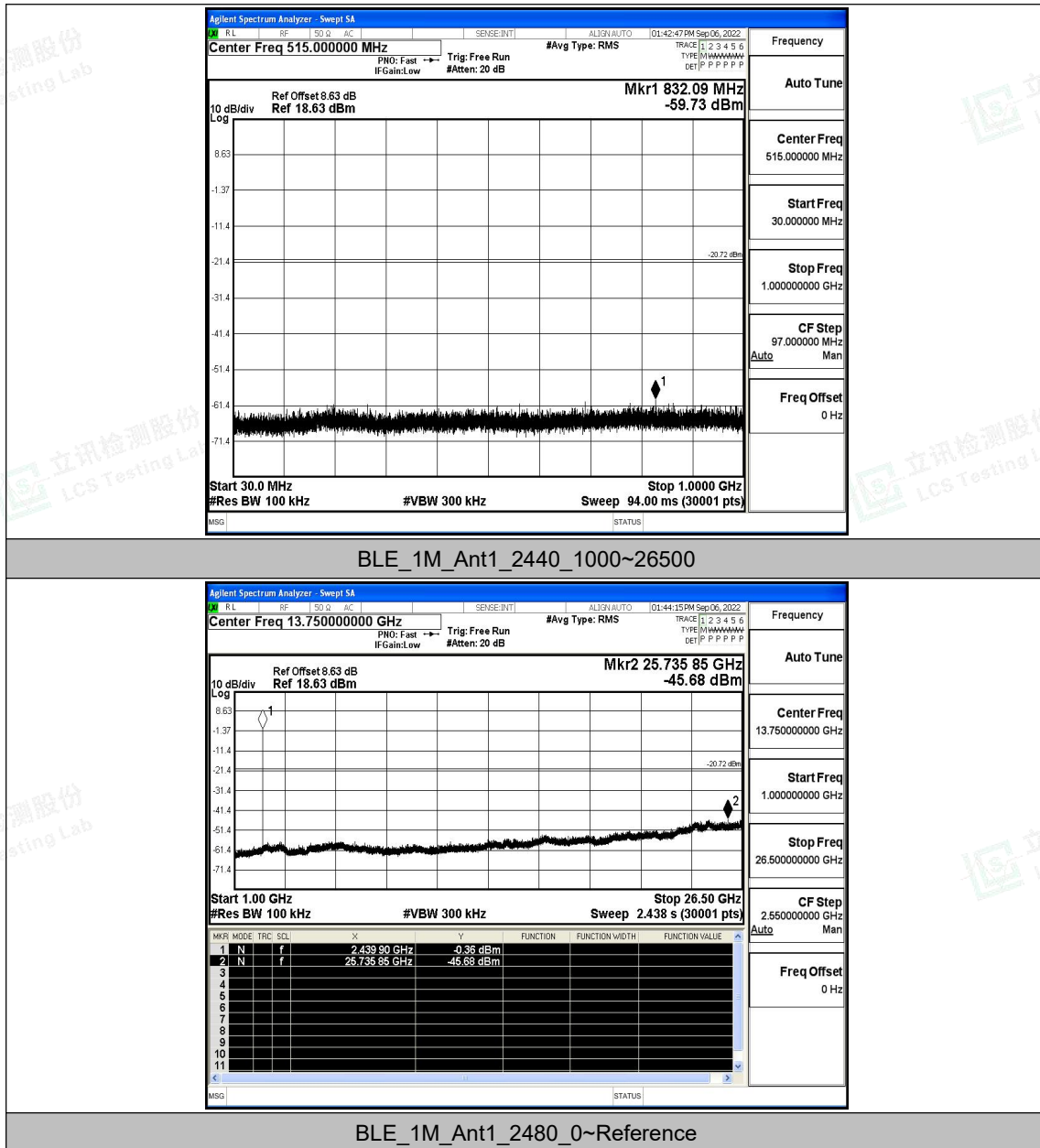


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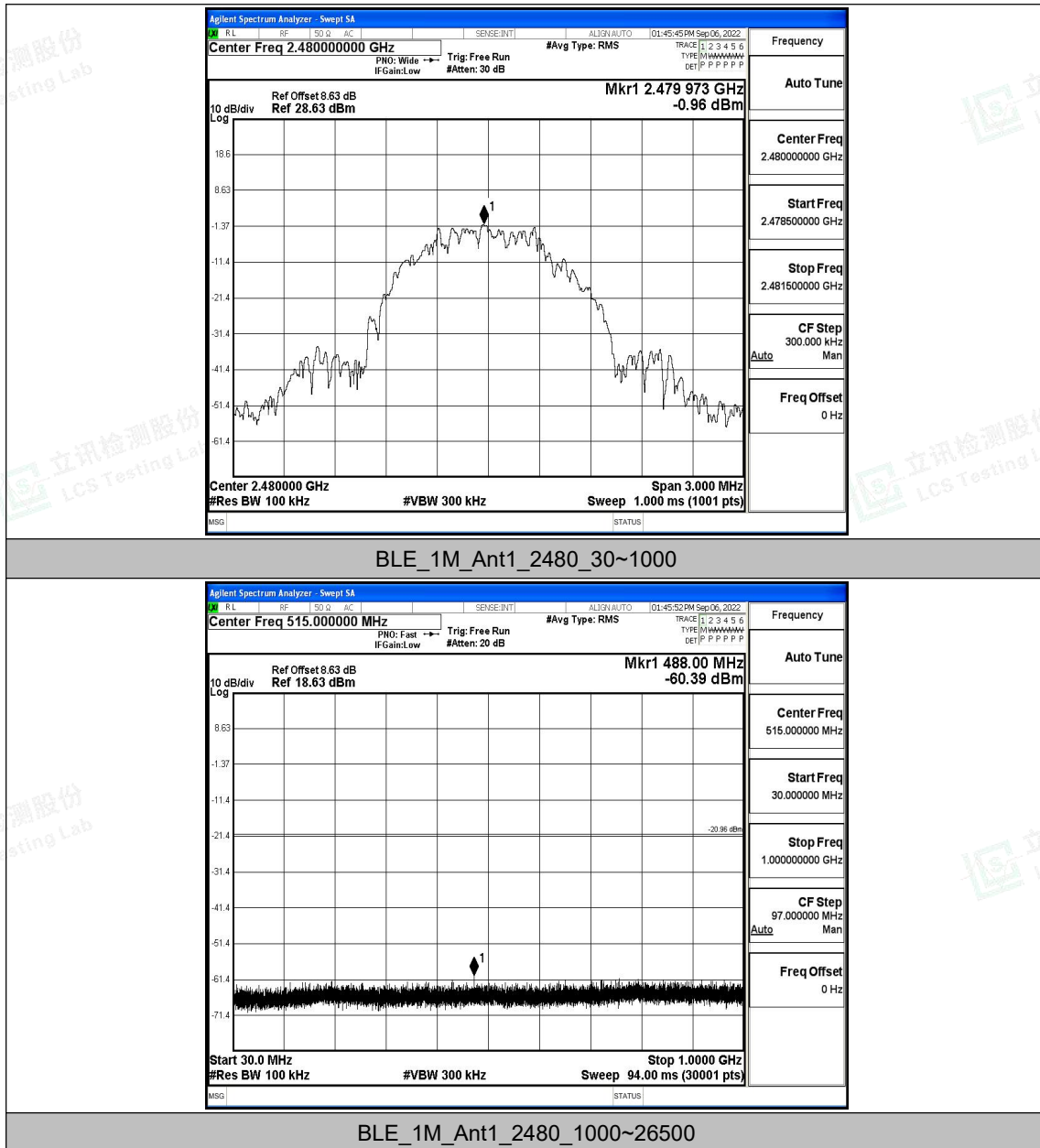


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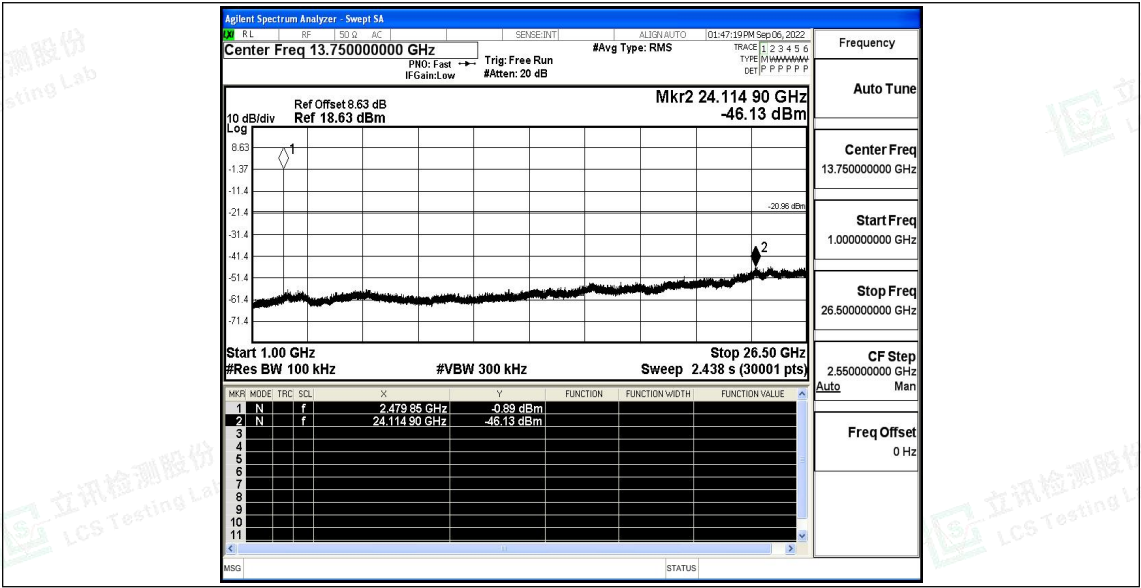


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B.7 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	---



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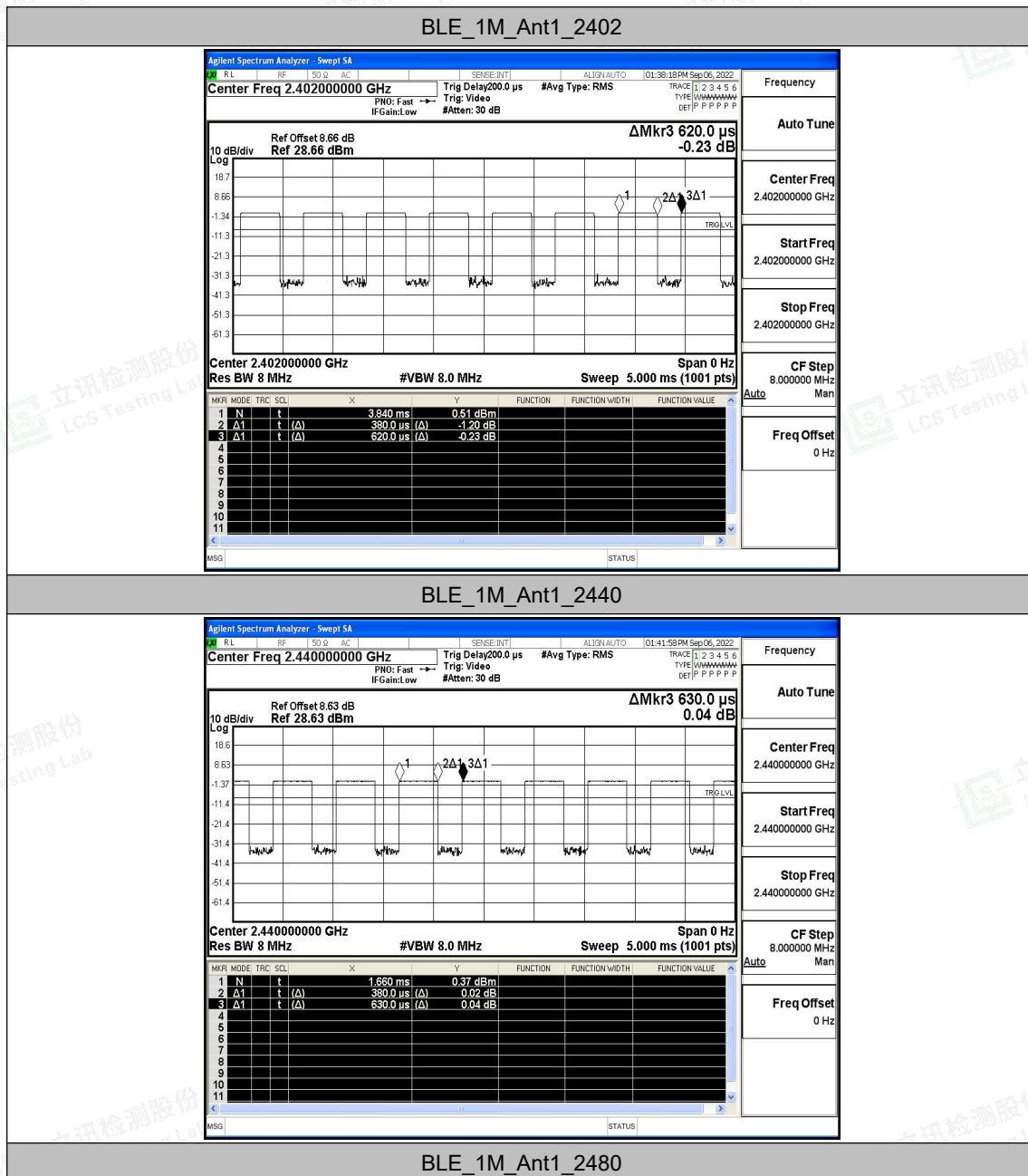
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Test Graphs

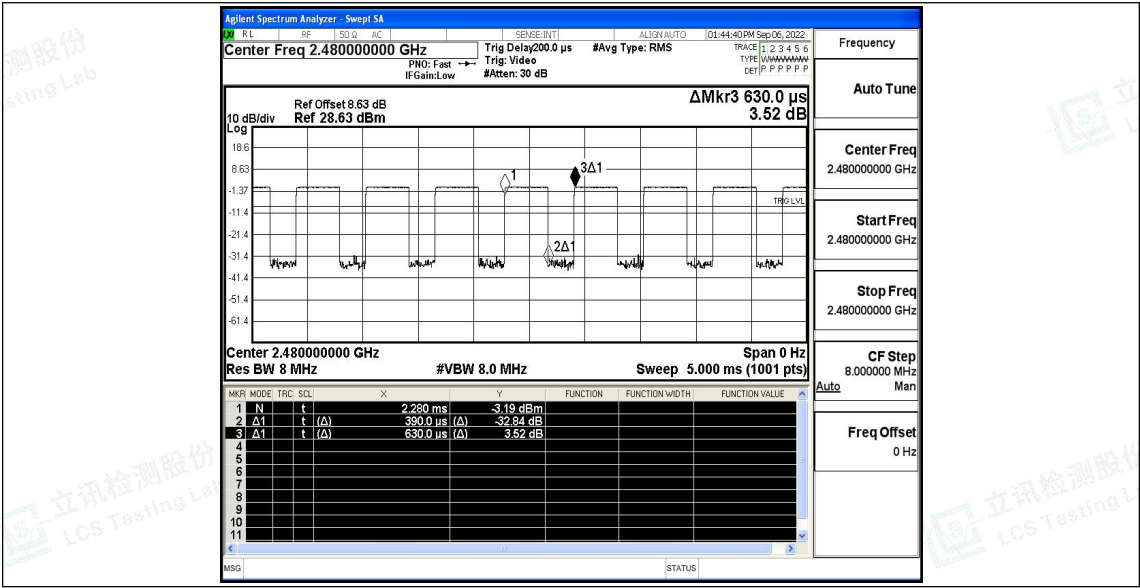


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B.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-57.29	≤-41.20	37.91	≤54	PASS
				AV	2382.635	-56.41	≤-41.20	38.79	≤54	PASS
				AV	2390.000	-57.06	≤-41.20	38.14	≤54	PASS
				Peak	2310.000	-50.91	≤-21.20	44.29	≤74	PASS
				Peak	2385.575	-47.7	≤-21.20	47.50	≤74	PASS
				Peak	2390.000	-50.02	≤-21.20	45.18	≤74	PASS
		High	2480	AV	2483.500	-53.56	≤-41.20	41.64	≤54	PASS
				AV	2483.520	-53.56	≤-41.20	41.64	≤54	PASS
				AV	2500.000	-56.31	≤-41.20	38.89	≤54	PASS
				Peak	2483.500	-50.59	≤-21.20	44.61	≤74	PASS
				Peak	2495.360	-47.23	≤-21.20	47.97	≤74	PASS
				Peak	2500.000	-50.55	≤-21.20	44.65	≤74	PASS

Note:

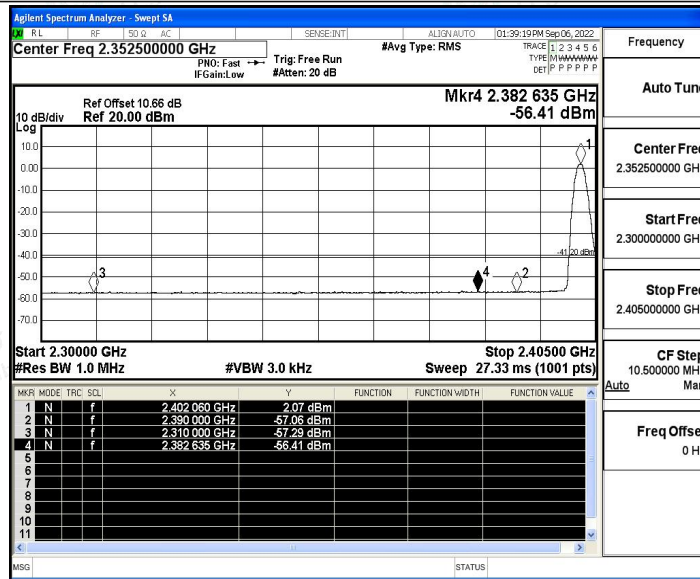
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



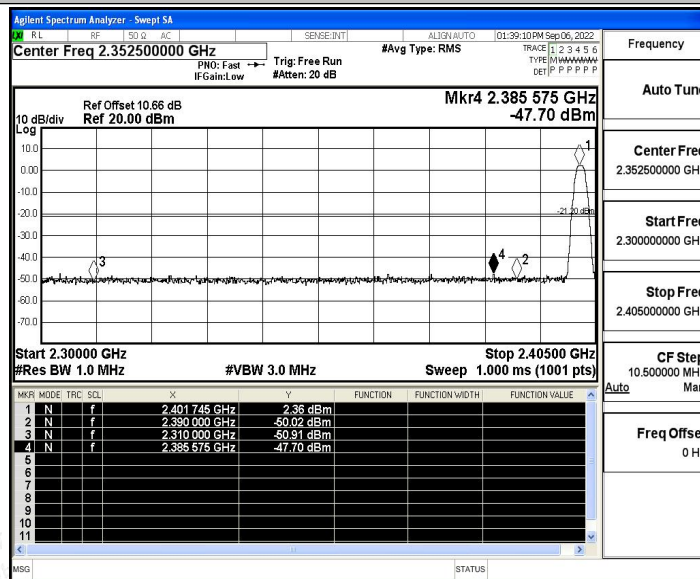


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

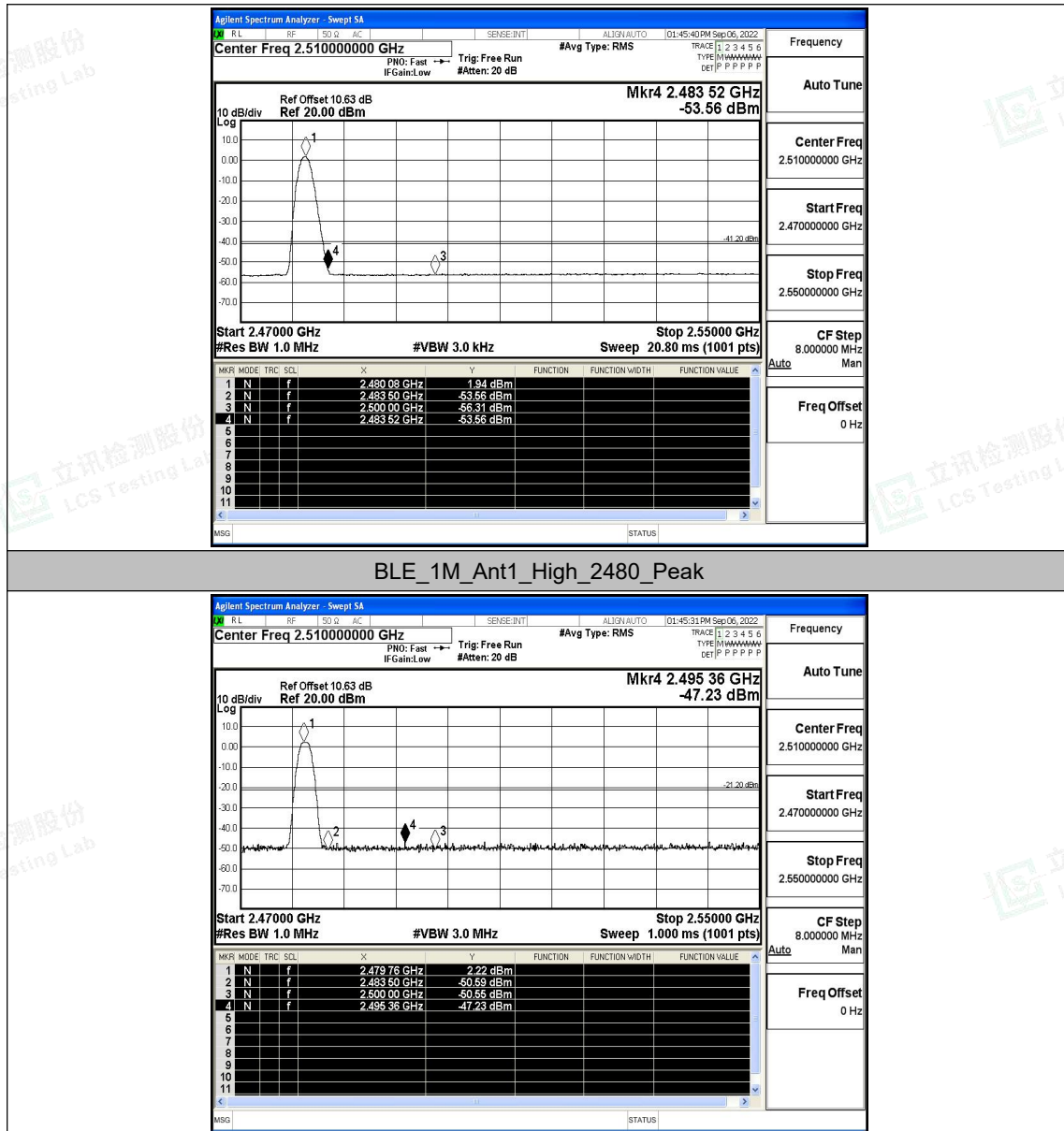


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