



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: 1080P FHD VIDEO PROJECTOR

Test Model: KJM-805A

Environmental Conditions

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





A.1 DTS Bandwidth

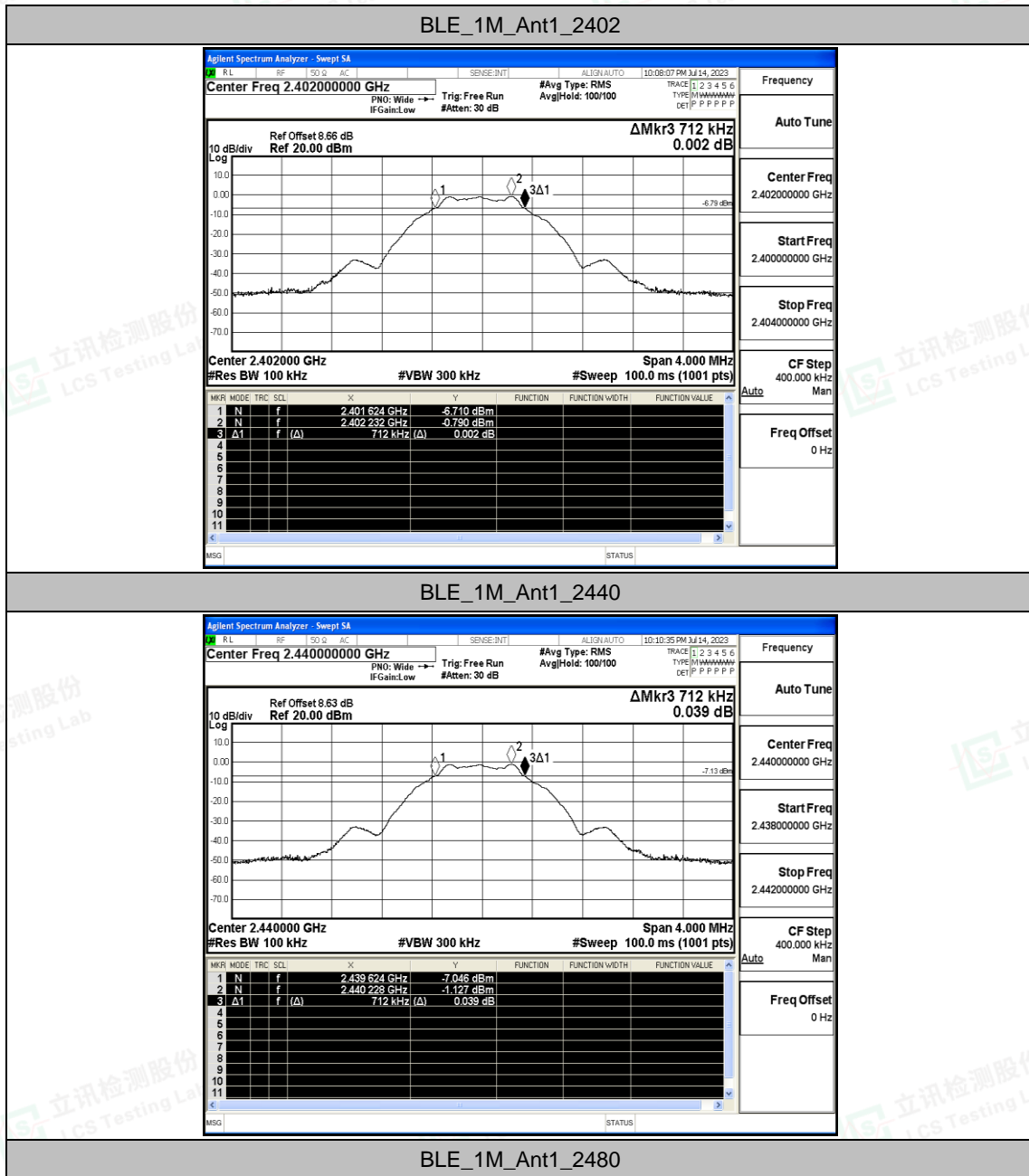
Test Result

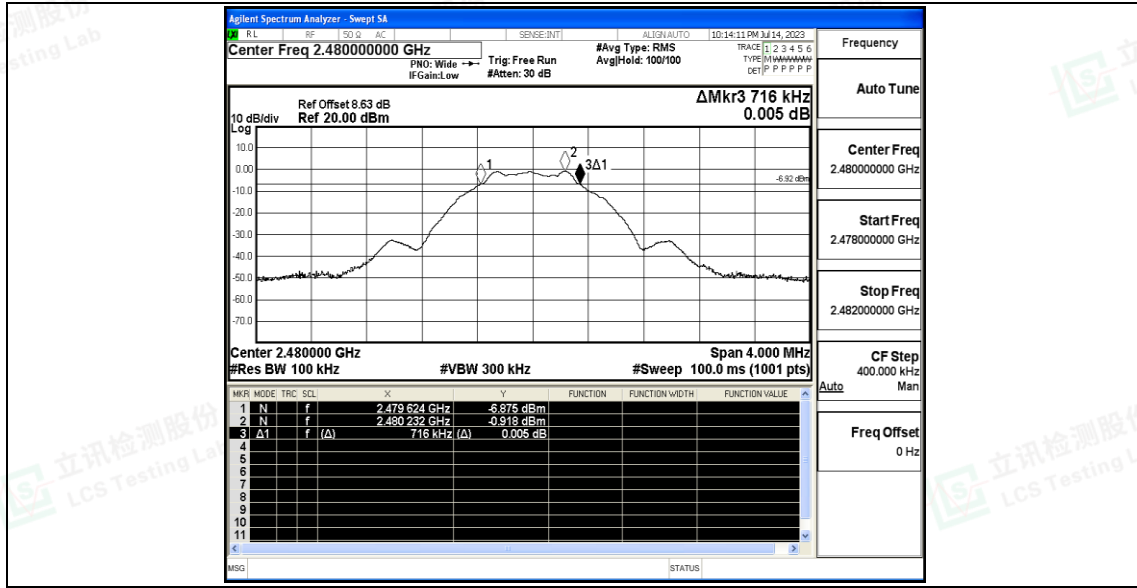
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.624	2402.336	0.5	PASS
		2440	0.712	2439.624	2440.336	0.5	PASS
		2480	0.716	2479.624	2480.340	0.5	PASS





Test Graphs





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A.2 Maximum conducted output power

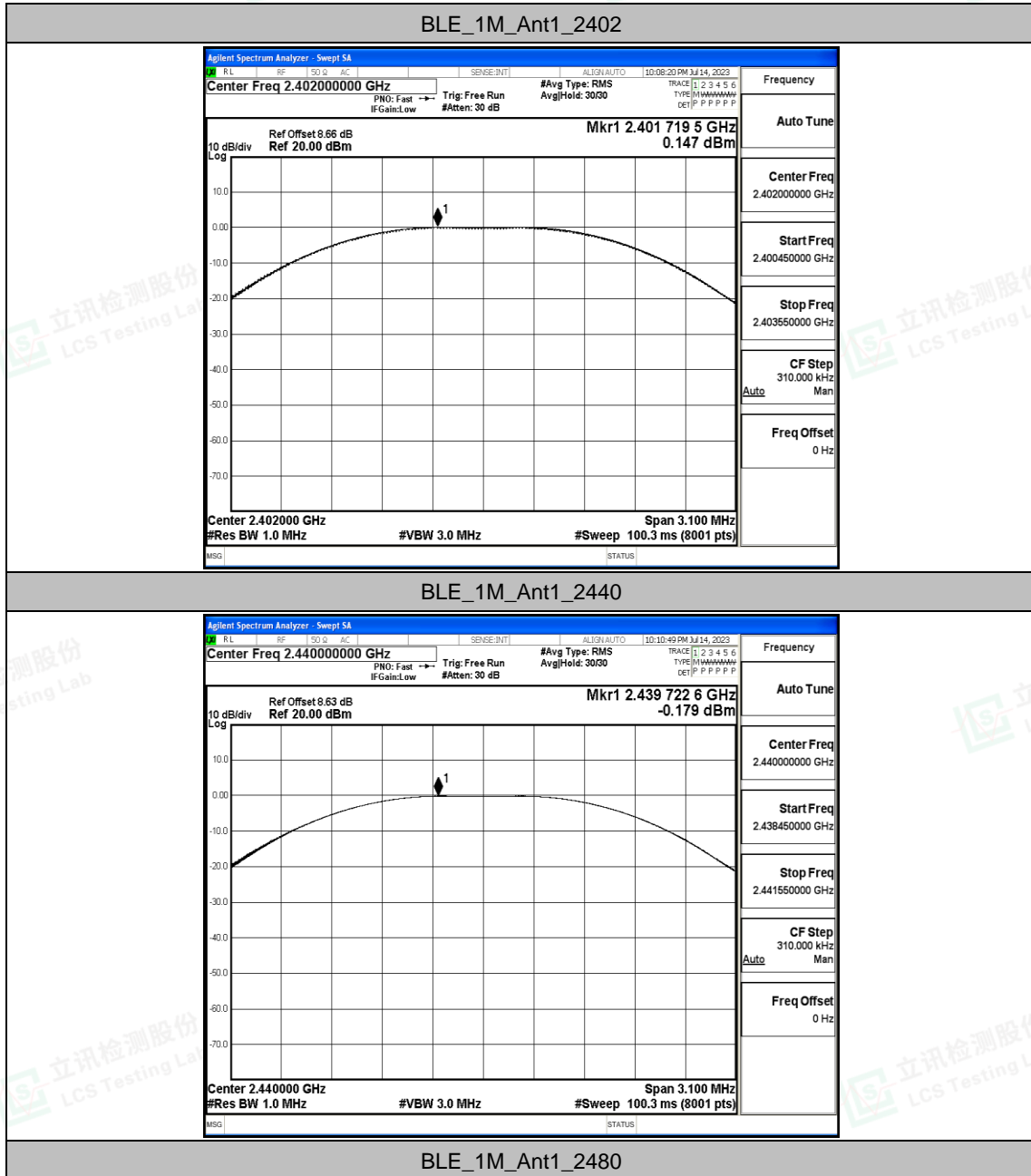
Test Result

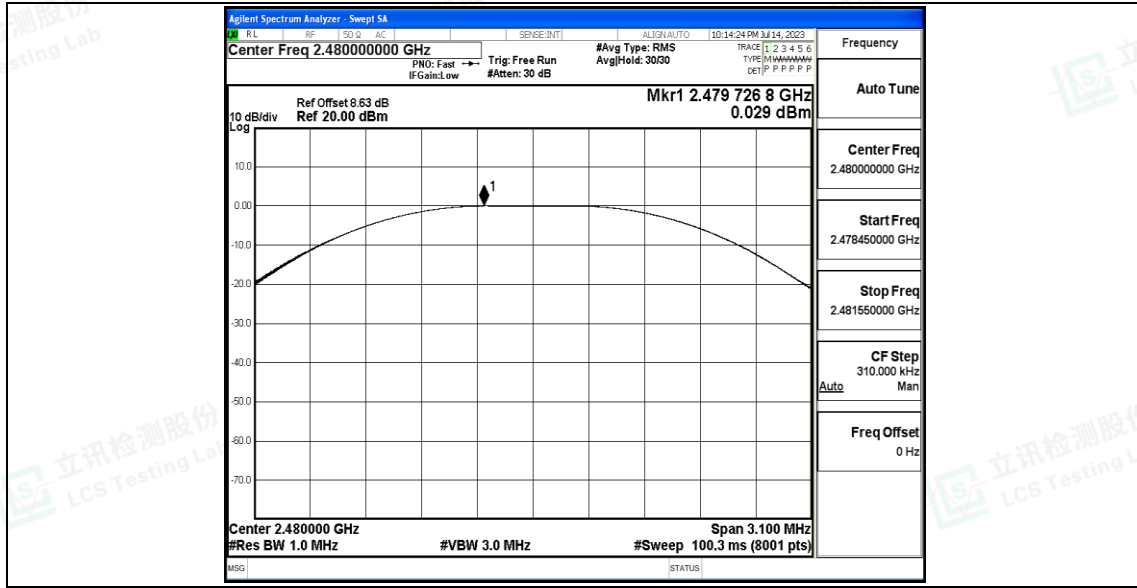
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.15	≤30	PASS
		2440	-0.18	≤30	PASS
		2480	0.03	≤30	PASS





Test Graphs







A.3 Maximum power spectral density

Test Result

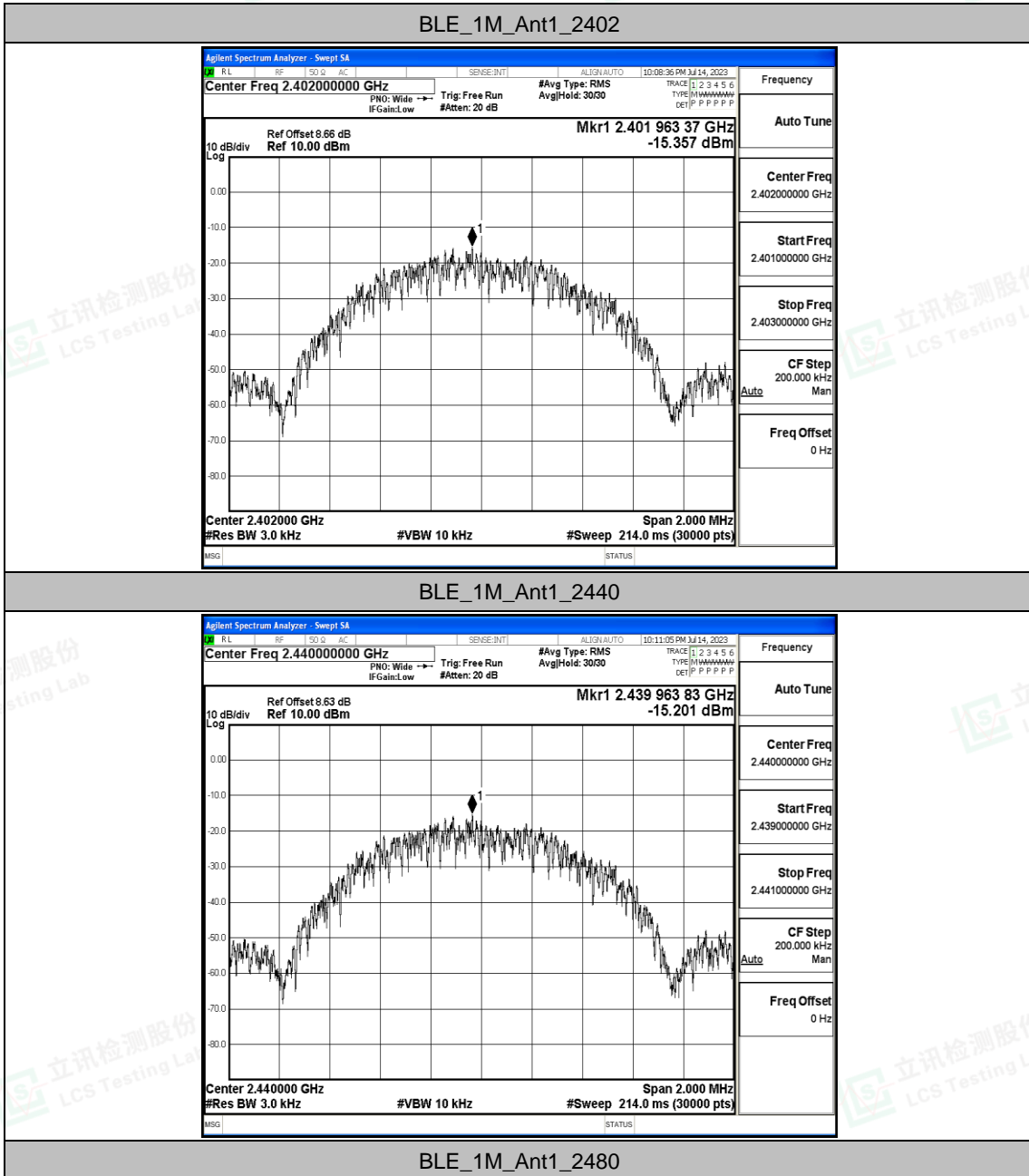
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.36	≤8.00	PASS
		2440	-15.2	≤8.00	PASS
		2480	-15.15	≤8.00	PASS

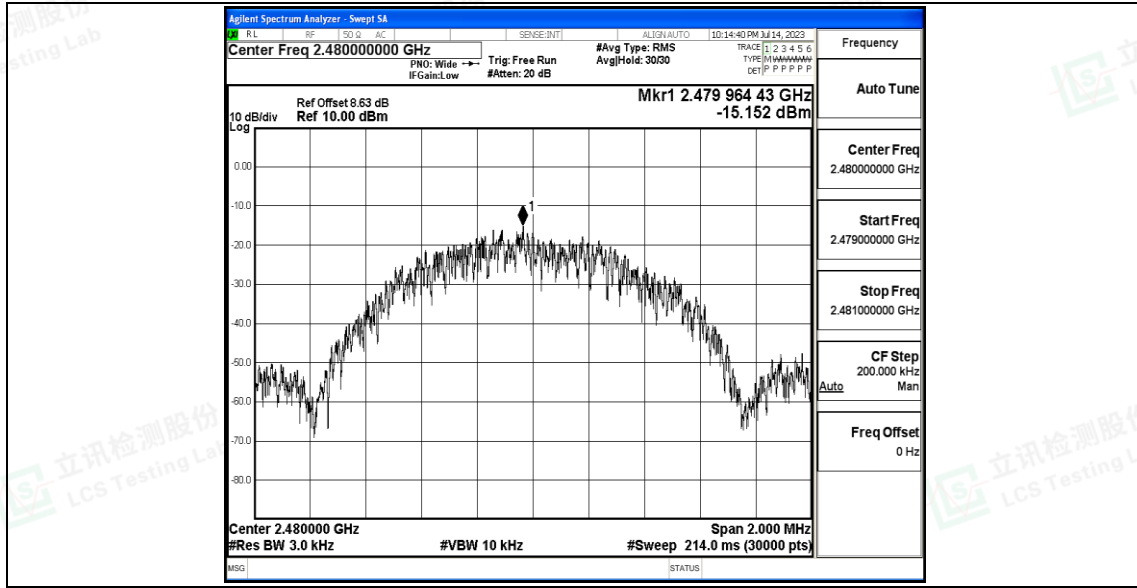


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A.4 Band edge measurements

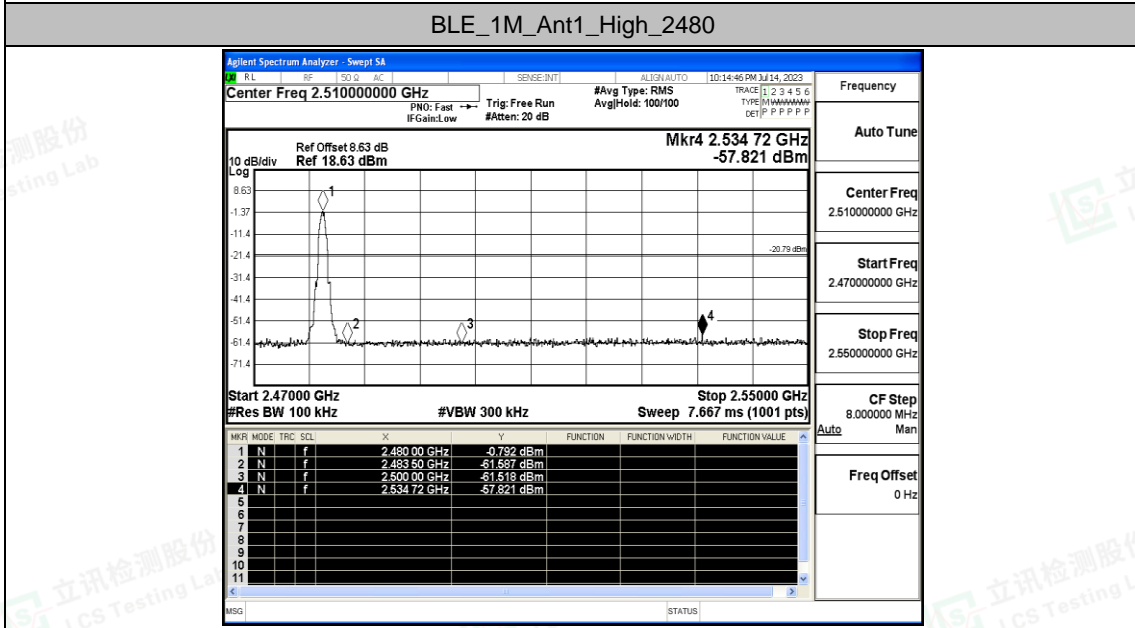
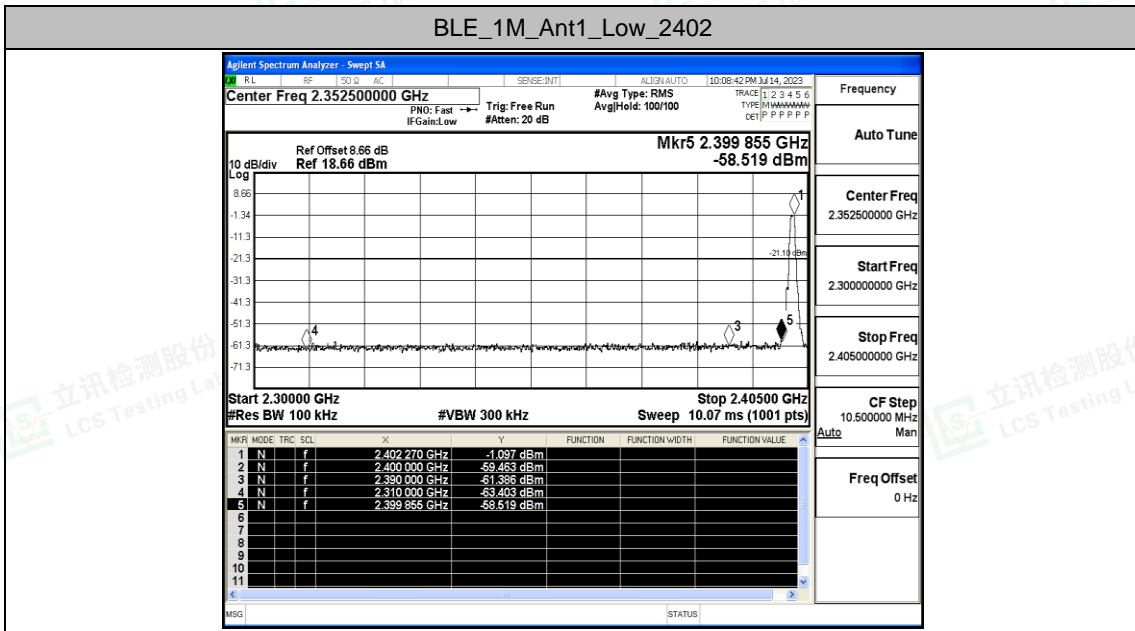
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.10	-58.52	≤-21.1	PASS
		High	2480	-0.79	-57.82	≤-20.79	PASS





Test Graphs





A.5 Conducted Spurious Emission

Test Result

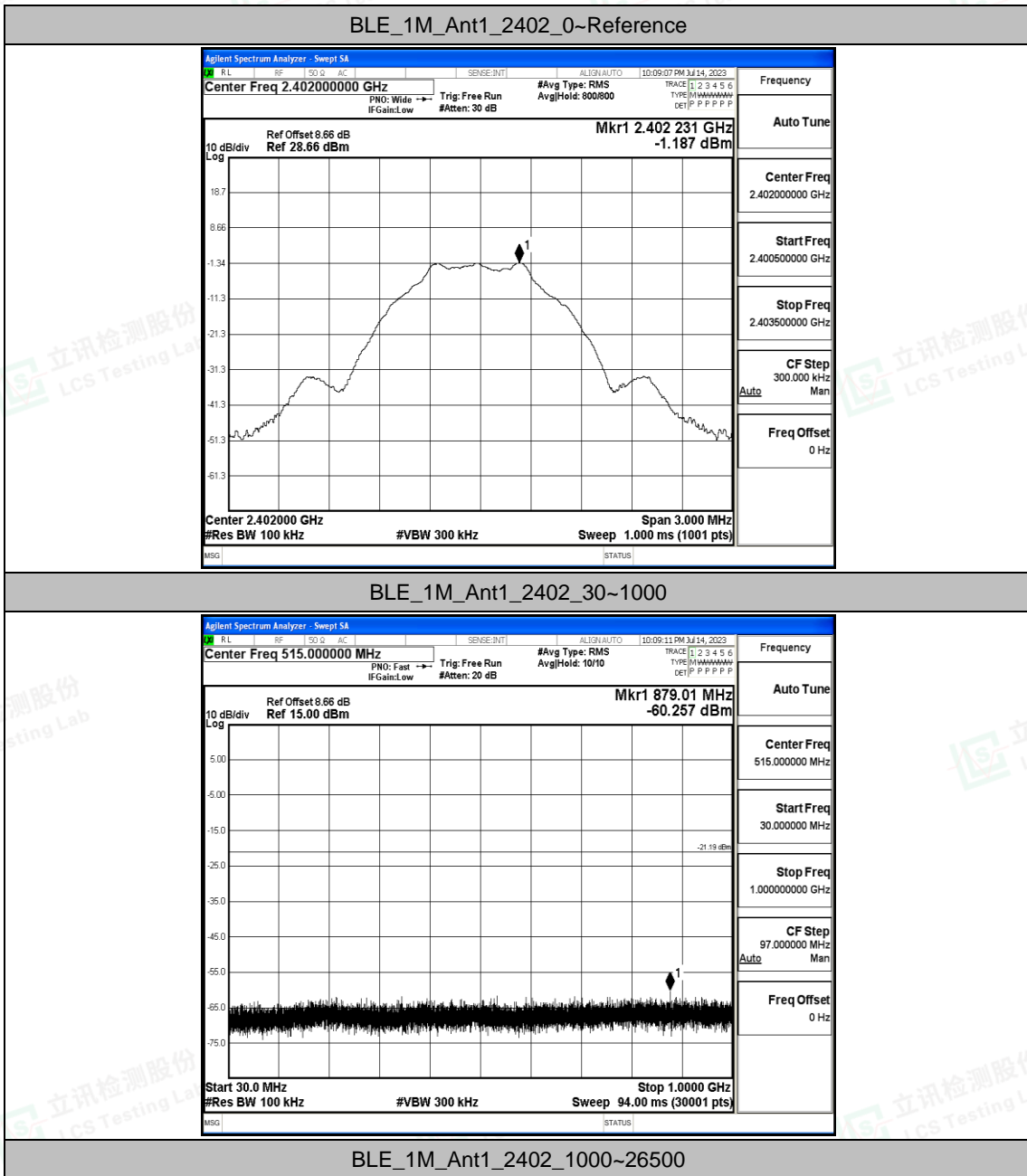
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-60.26	≤-21.19	PASS
			1000~26500	-1.19	-46.52	≤-21.19	PASS
		2440	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-60.6	≤-21.1	PASS
			1000~26500	-1.10	-46.15	≤-21.1	PASS
		2480	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-61.15	≤-20.89	PASS
			1000~26500	-0.89	-46.87	≤-20.89	PASS



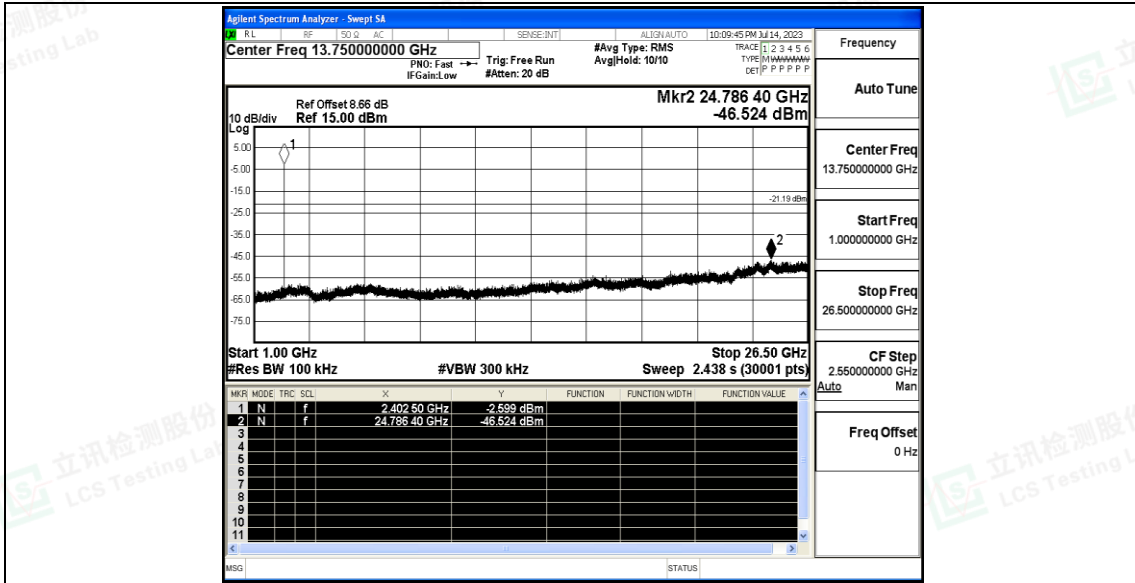
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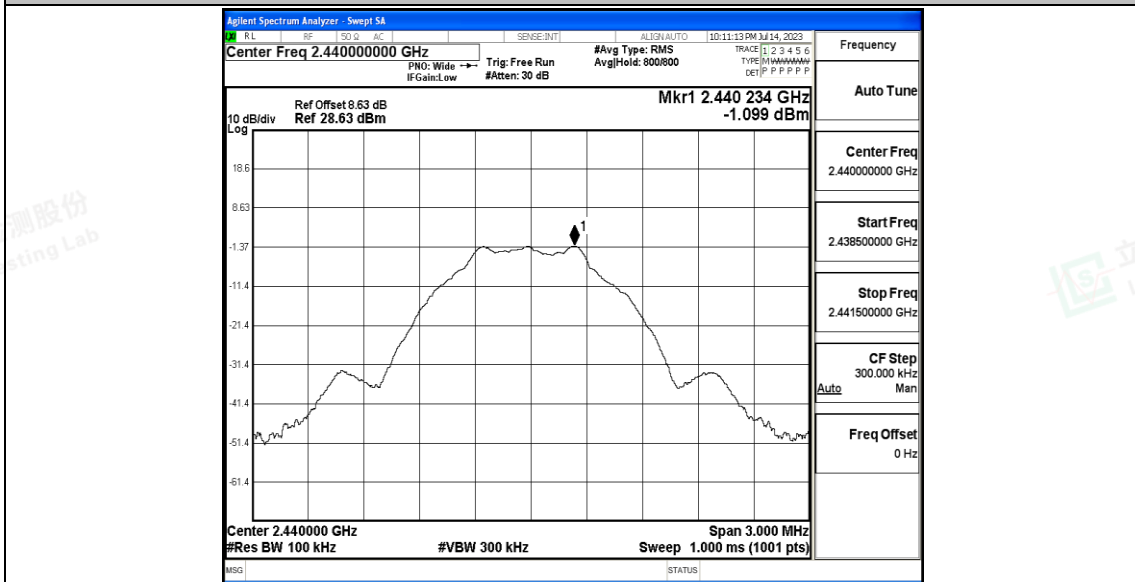
Test Graphs



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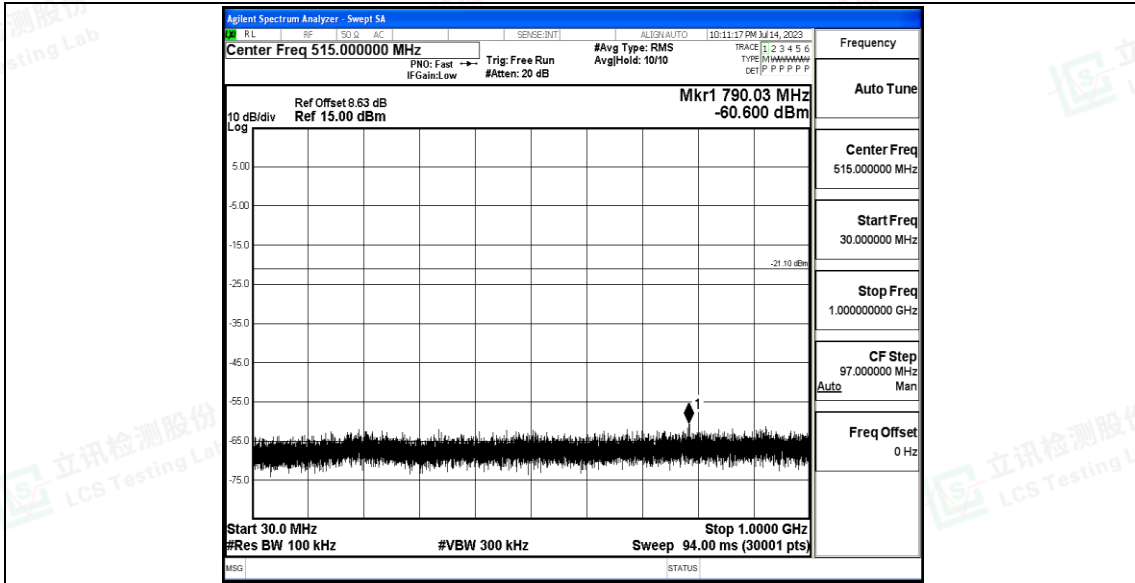


BLE_1M_Ant1_2440_0~Reference

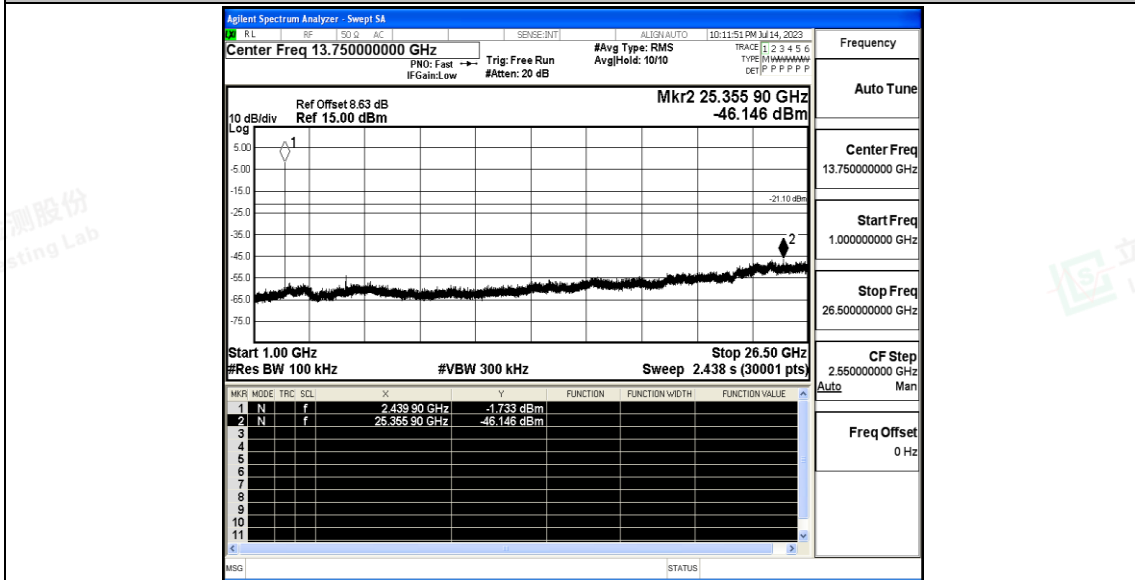


BLE_1M_Ant1_2440_30~1000





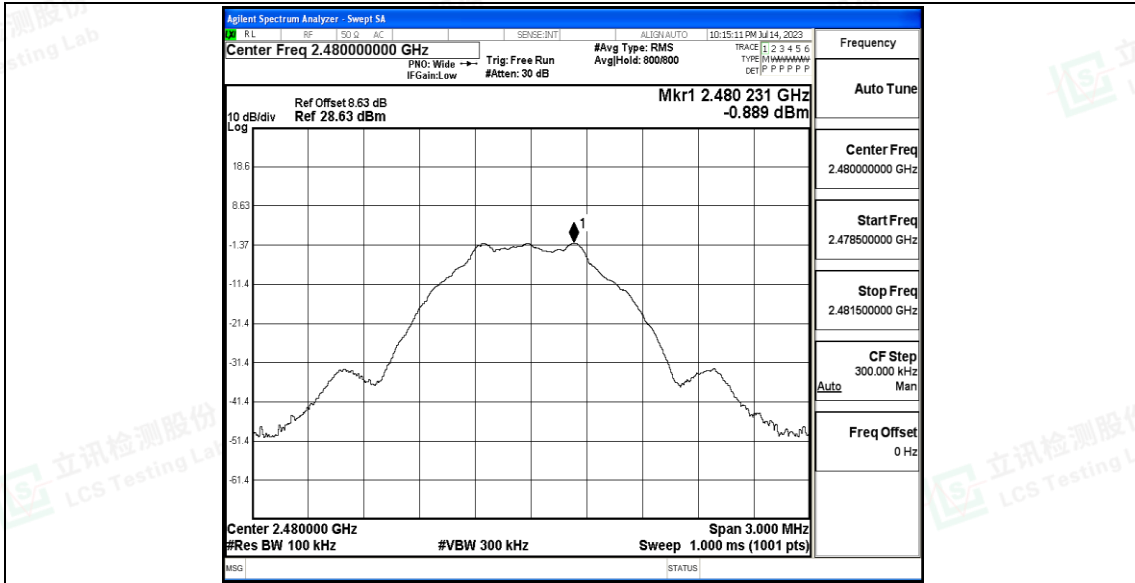
BLE_1M_Ant1_2440_1000~26500



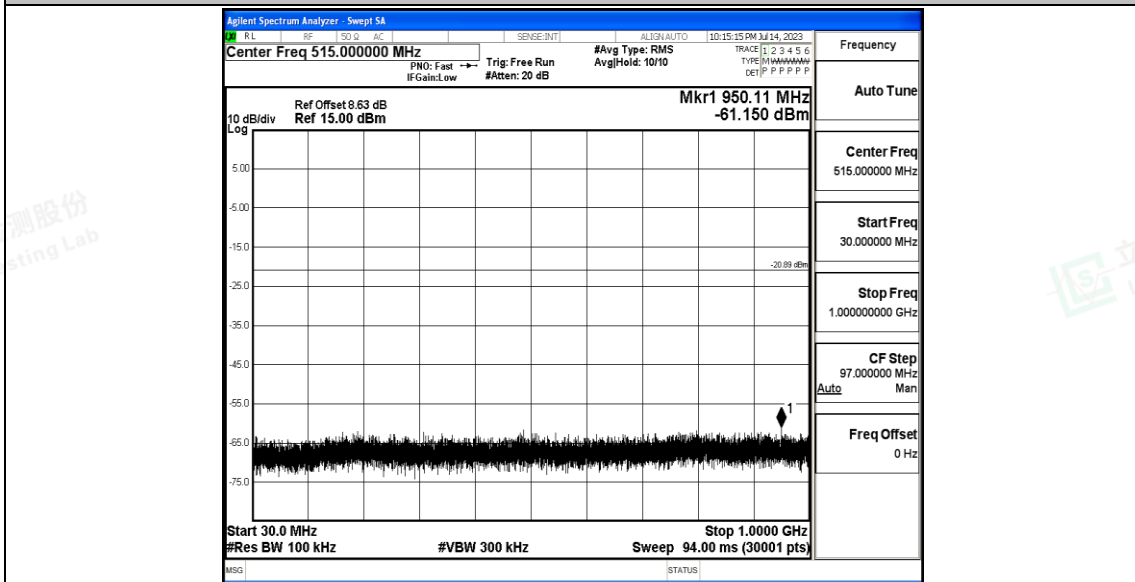
BLE_1M_Ant1_2480_0~Reference



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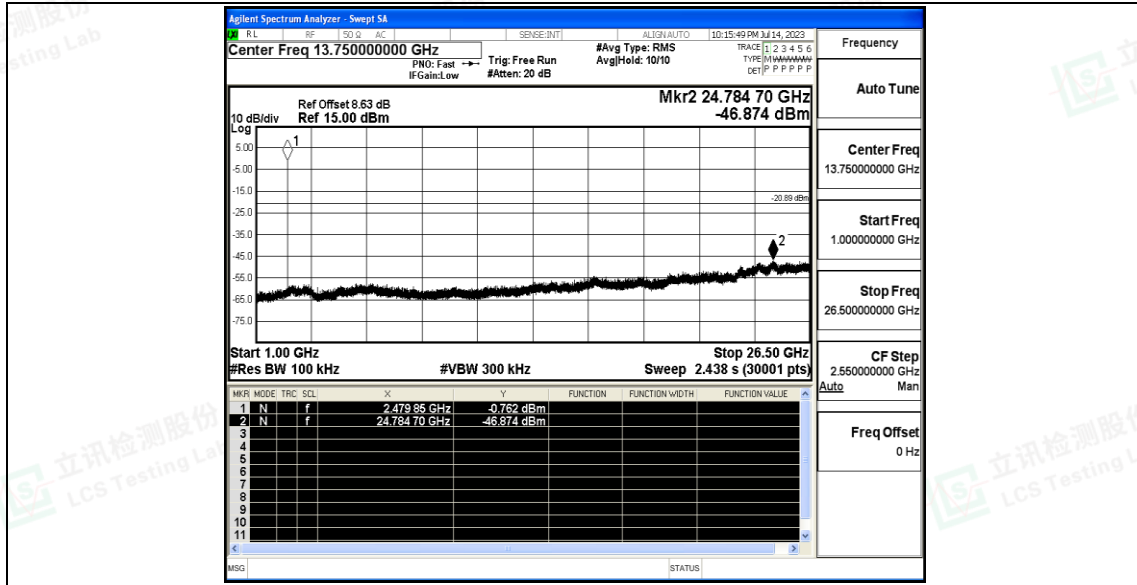


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





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A.6 Duty Cycle

Test Result

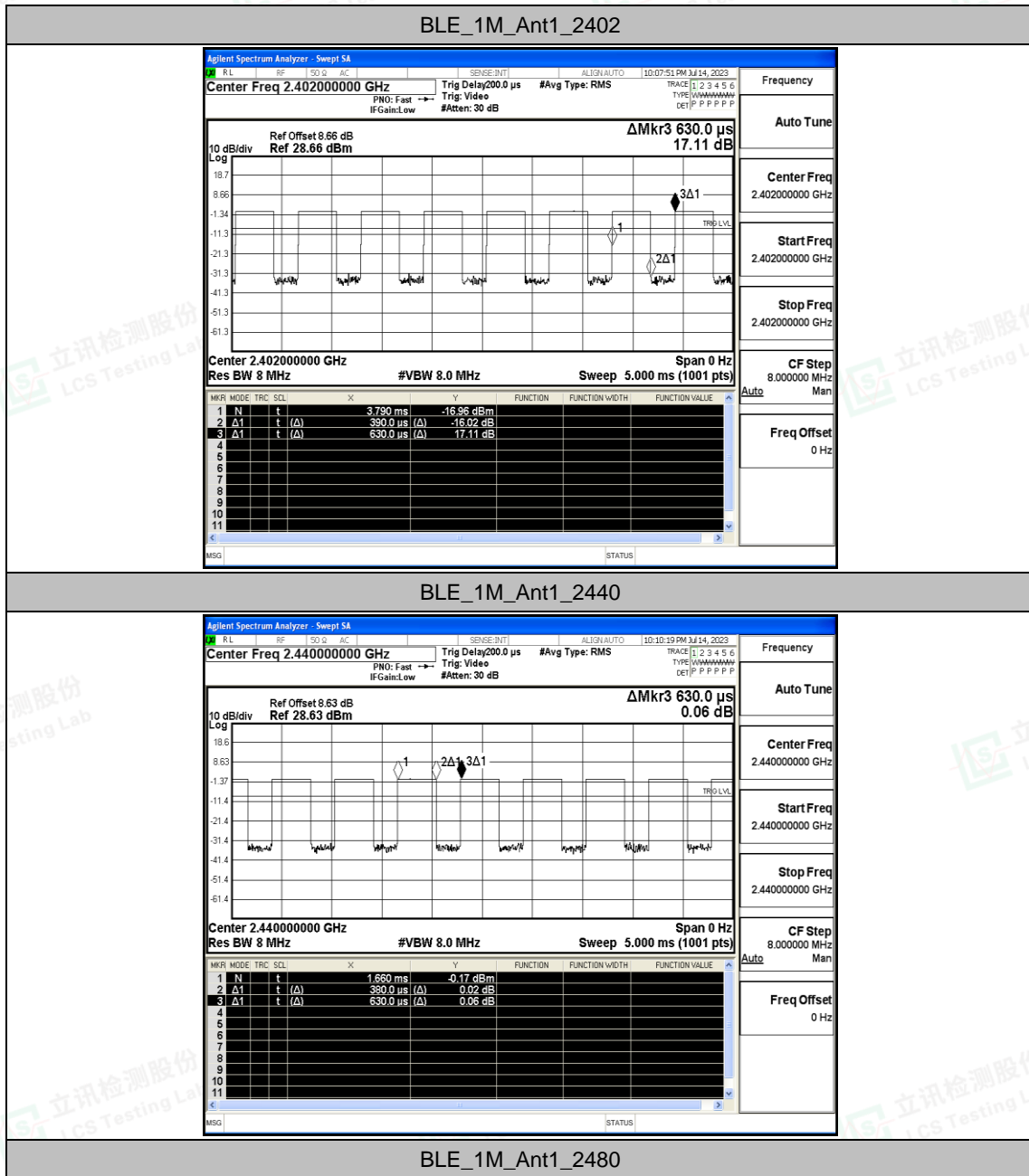
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS

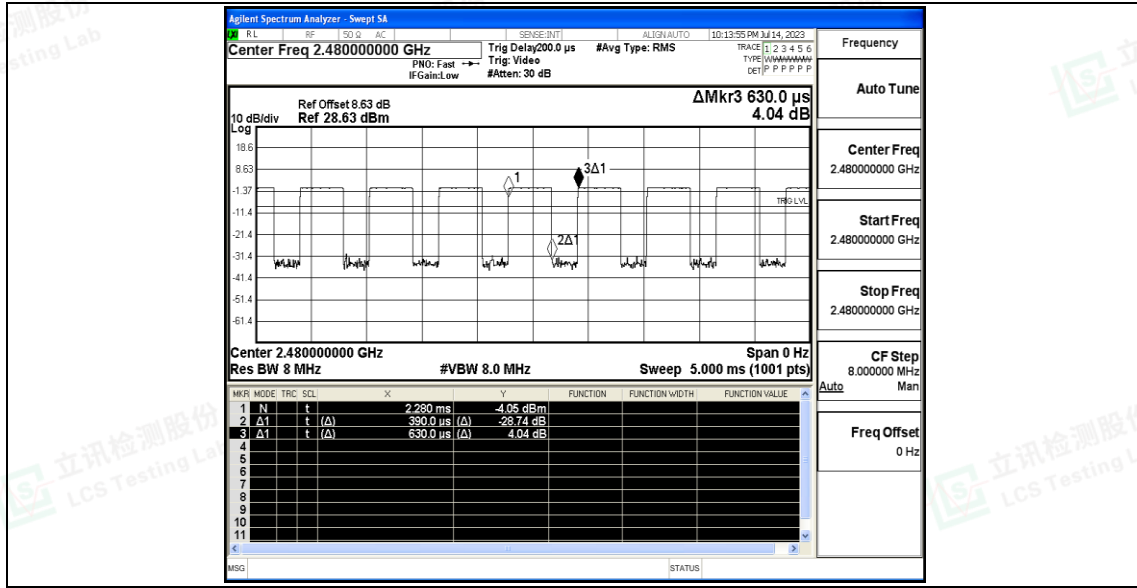


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Test Graphs





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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_1M	Ant1	Low	2402	AV	2310.000	-57.65	≤-41.20	37.55	≤54	PASS
				AV	2382.530	-56.46	≤-41.20	38.74	≤54	PASS
				AV	2390.000	-57.08	≤-41.20	38.12	≤54	PASS
				Peak	2310.000	-52.06	≤-21.20	43.14	≤74	PASS
				Peak	2322.680	-47.48	≤-21.20	47.72	≤74	PASS
				Peak	2390.000	-49.82	≤-21.20	45.38	≤74	PASS
		High	2480	AV	2483.500	-53.43	≤-41.20	41.77	≤54	PASS
				AV	2483.520	-53.43	≤-41.20	41.77	≤54	PASS
				AV	2500.000	-56.62	≤-41.20	38.58	≤54	PASS
				Peak	2483.500	-49.44	≤-21.20	45.76	≤74	PASS
				Peak	2488.880	-46.45	≤-21.20	48.75	≤74	PASS
				Peak	2500.000	-50.35	≤-21.20	44.85	≤74	PASS

Note:

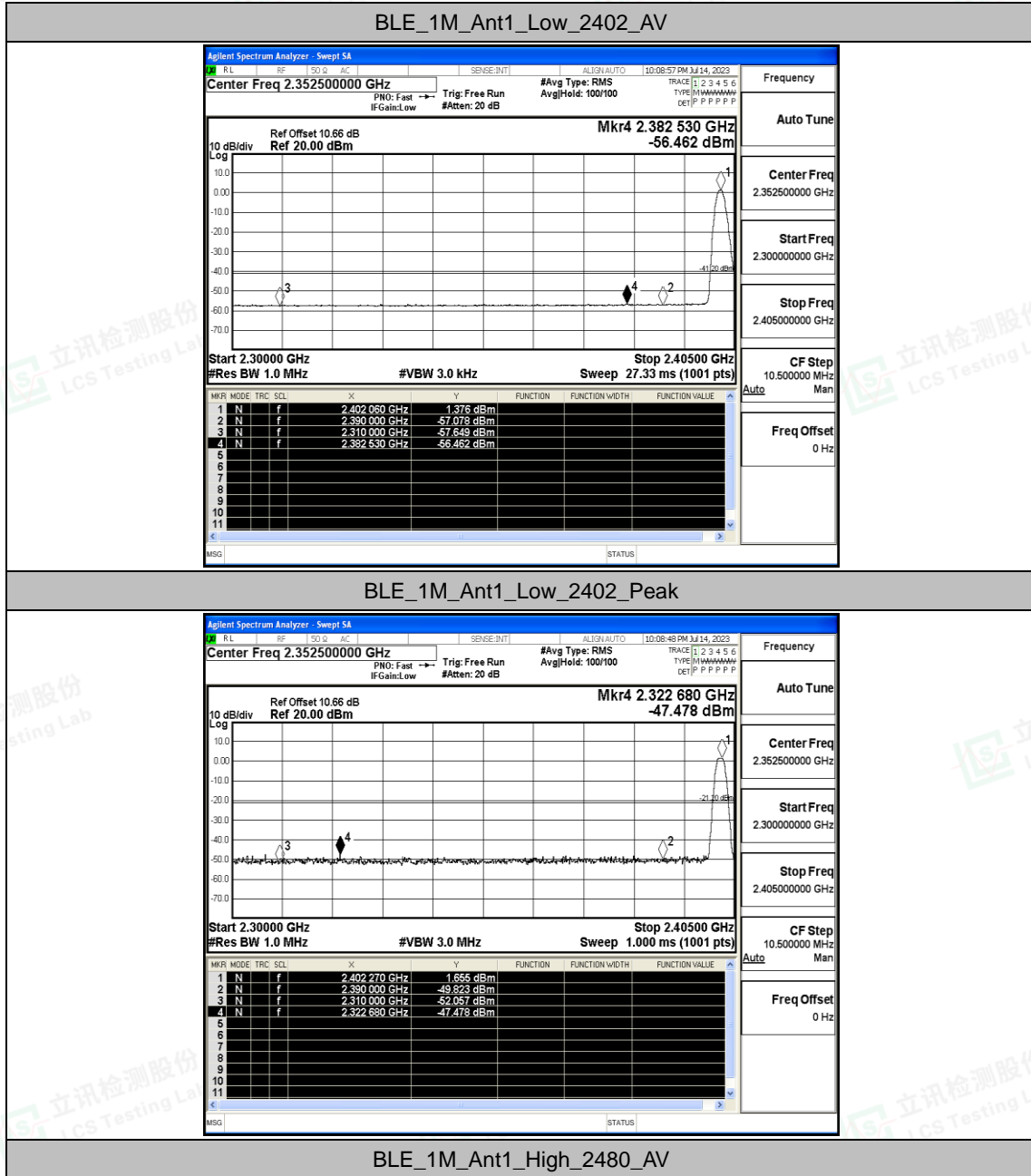
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

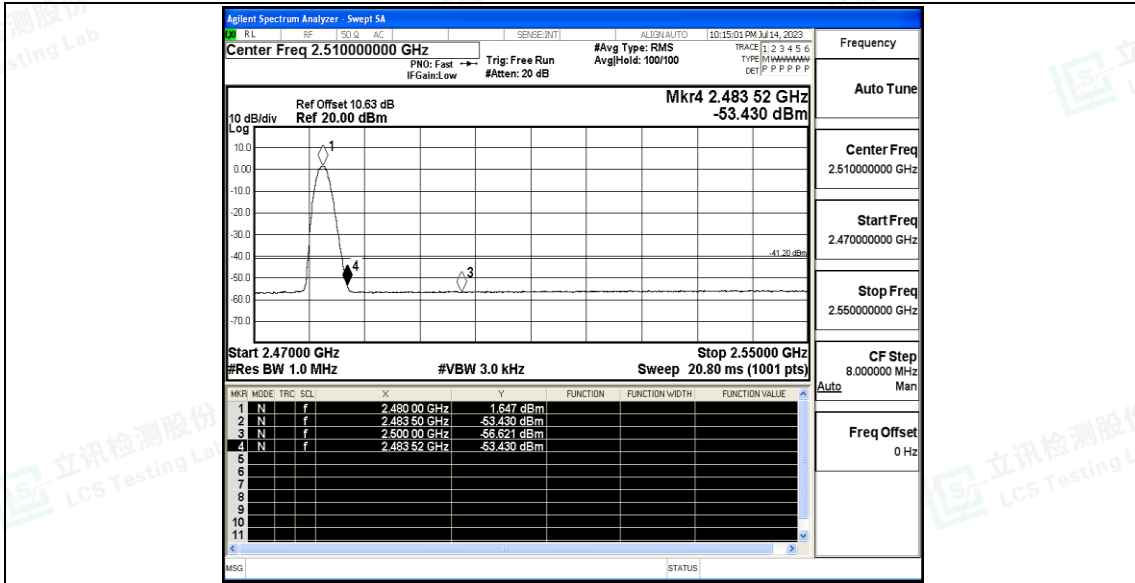


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BLE_1M_Ant1_High_2480_Peak

