



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth Speaker

Test Model: SRS2B

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Li huan





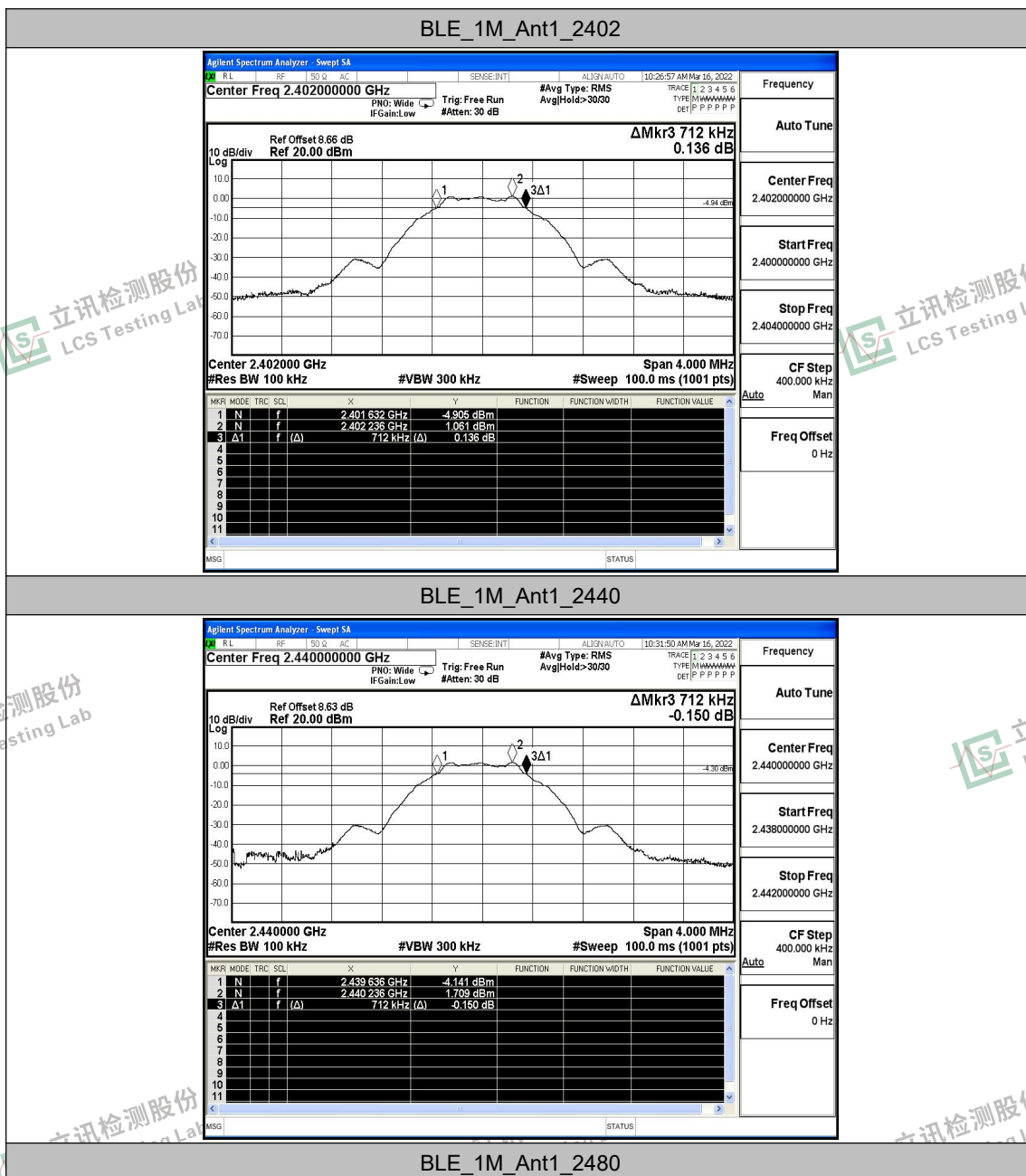
B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.632	2402.344	0.5	PASS
		2440	0.712	2439.636	2440.348	0.5	PASS
		2480	0.712	2479.636	2480.348	0.5	PASS



Test Graphs

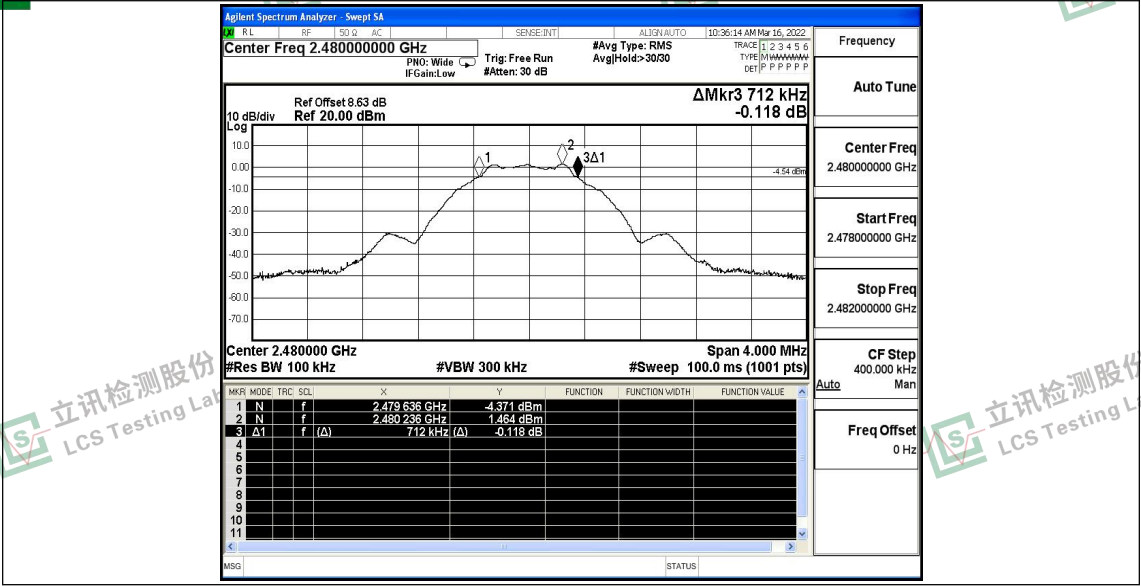


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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.99	≤30	PASS
		2440	2.64	≤30	PASS
		2480	2.39	≤30	PASS



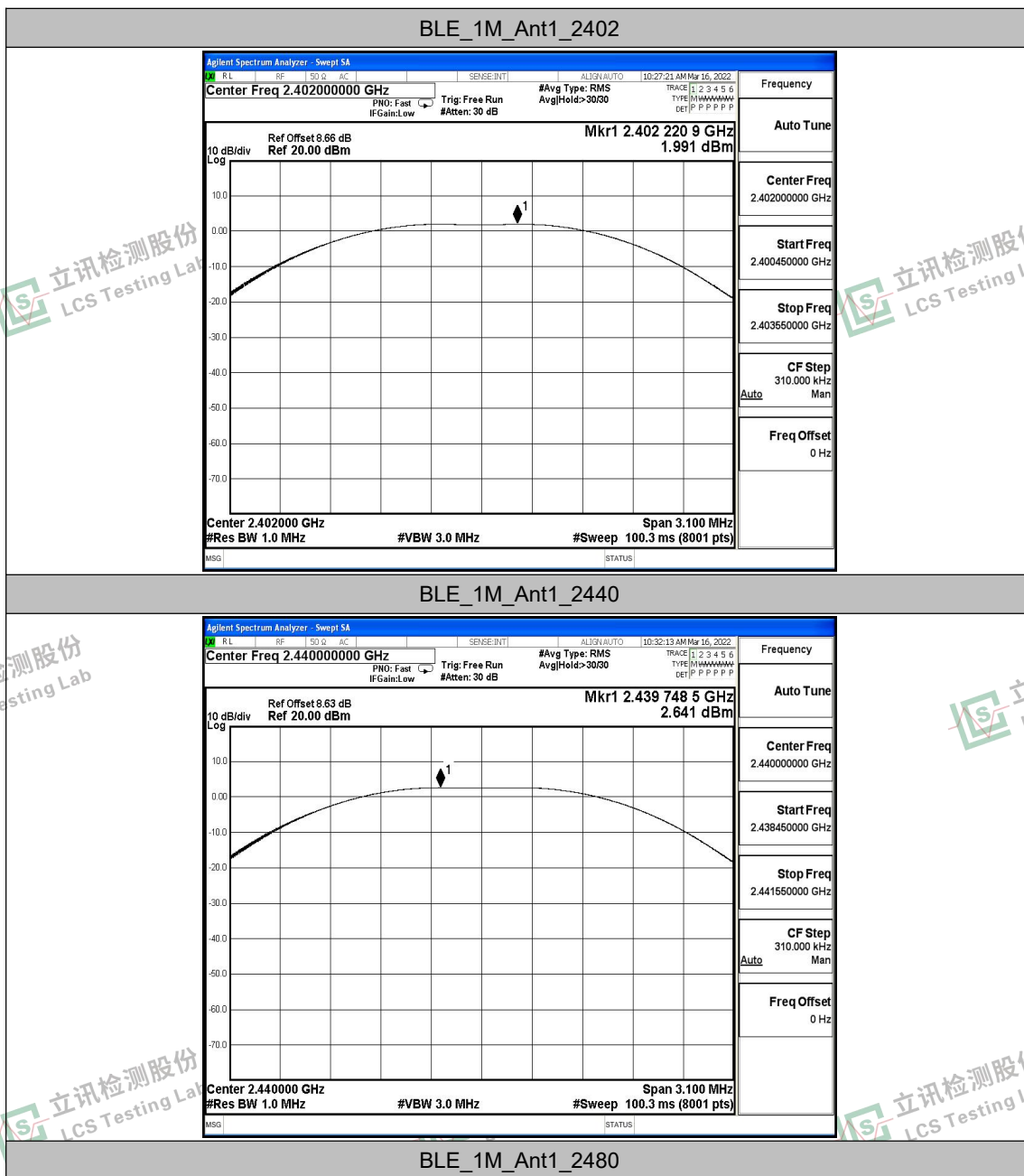
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Test Graphs

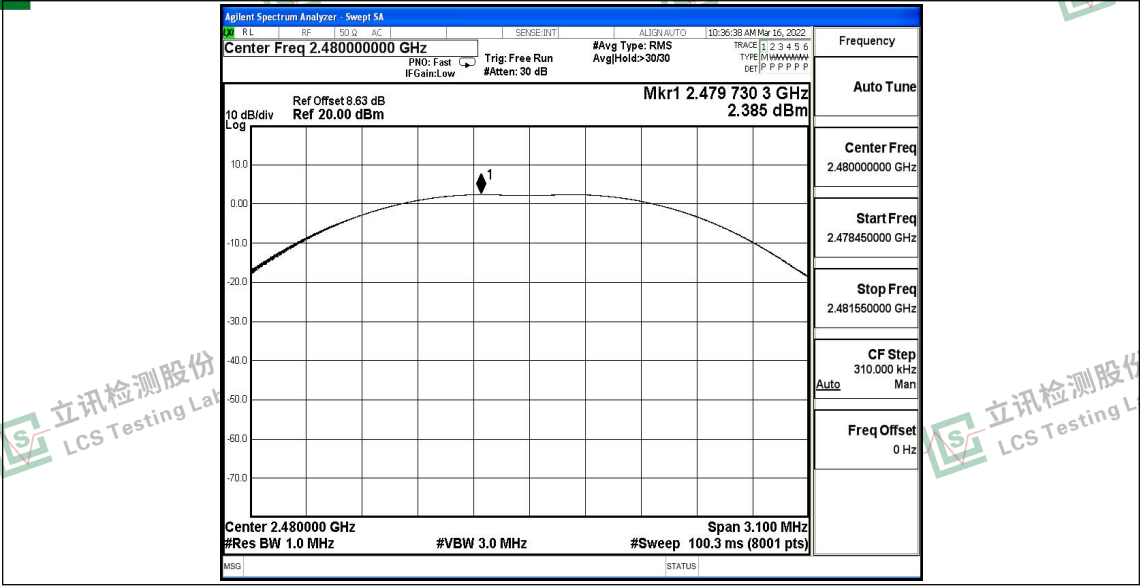


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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.12	≤8.00	PASS
		2440	-12.47	≤8.00	PASS
		2480	-12.74	≤8.00	PASS



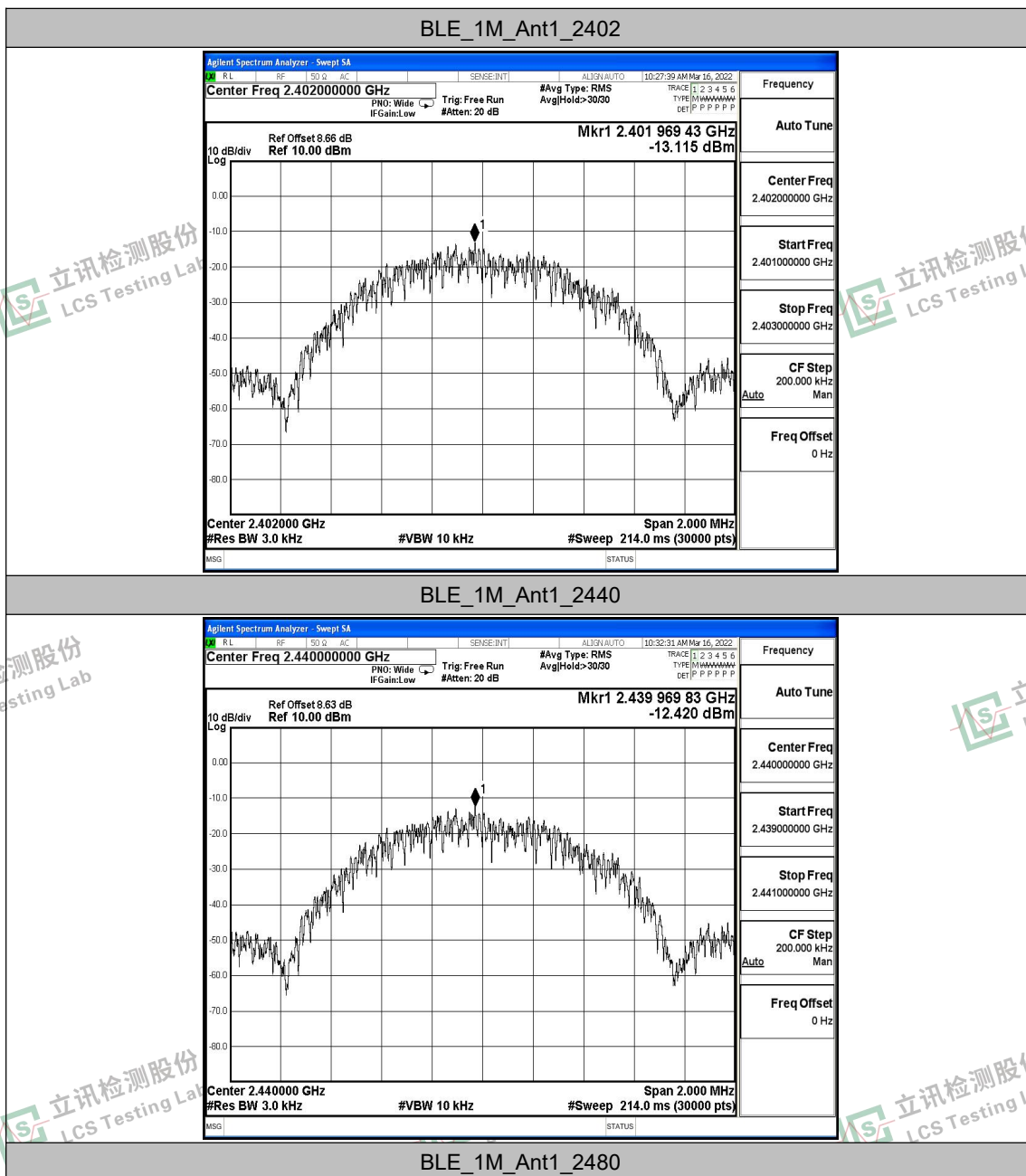
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Test Graphs

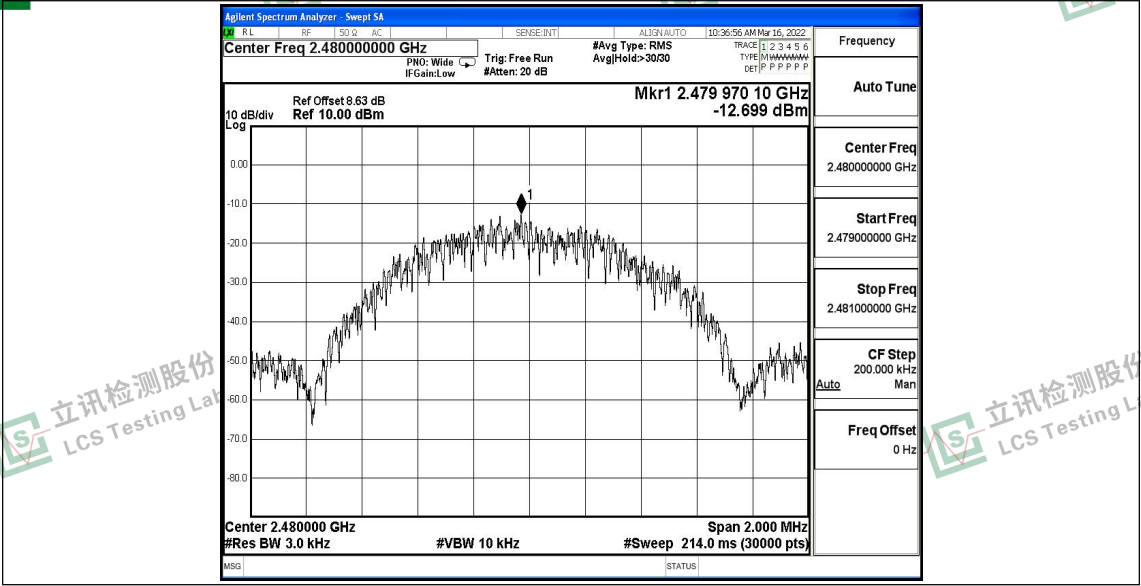


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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.35	-48.64	≤-18.65	PASS
		High	2480	1.73	-47.3	≤-18.27	PASS



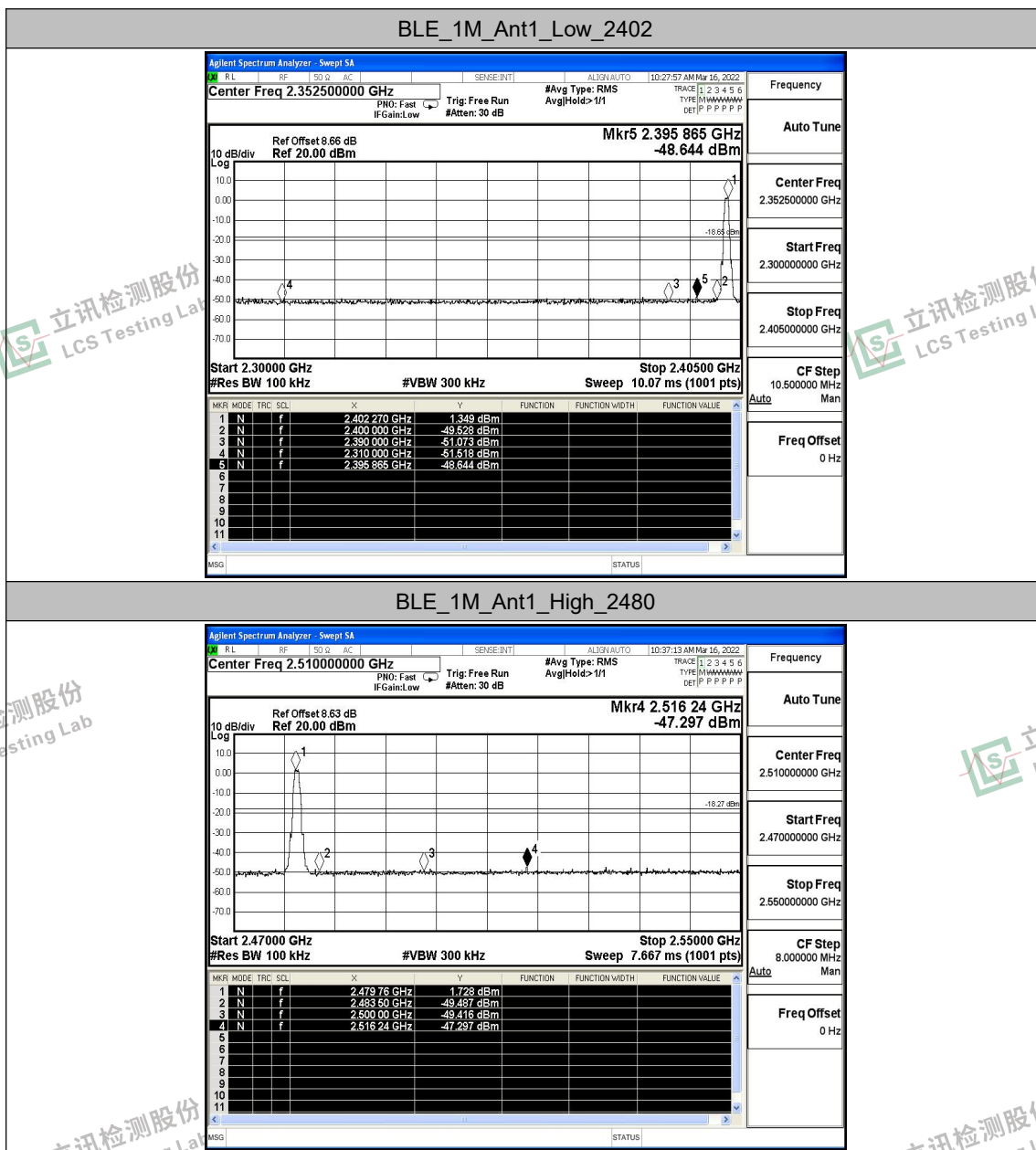
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Test Graphs



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-59.63	≤-18.91	PASS
			1000~26500	1.09	-46.14	≤-18.91	PASS
		2440	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-58.82	≤-18.27	PASS
			1000~26500	1.73	-45.76	≤-18.27	PASS
		2480	Reference	1.49	1.49	---	PASS
			30~1000	1.49	-59.89	≤-18.51	PASS
			1000~26500	1.49	-46.63	≤-18.51	PASS



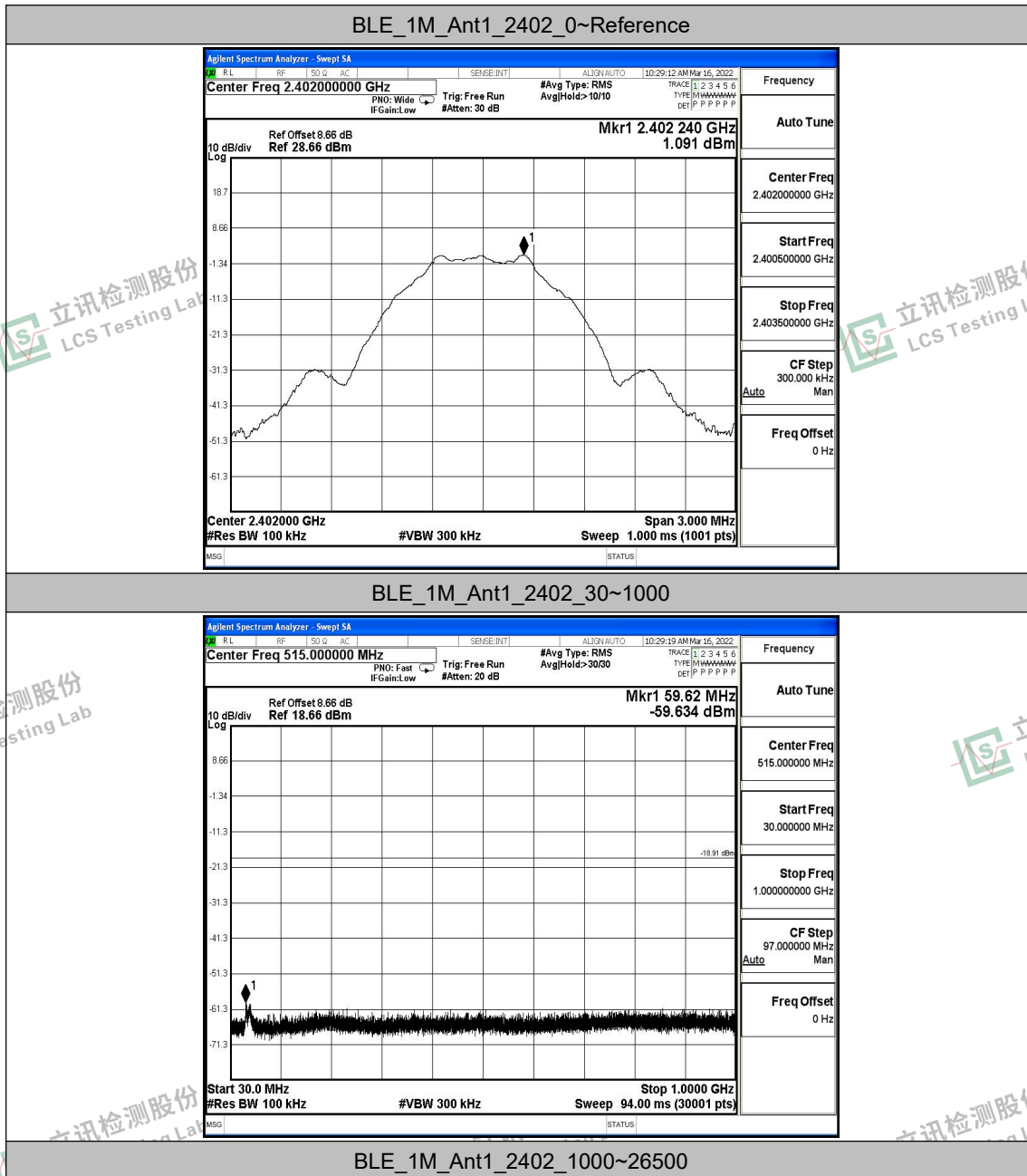
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Test Graphs

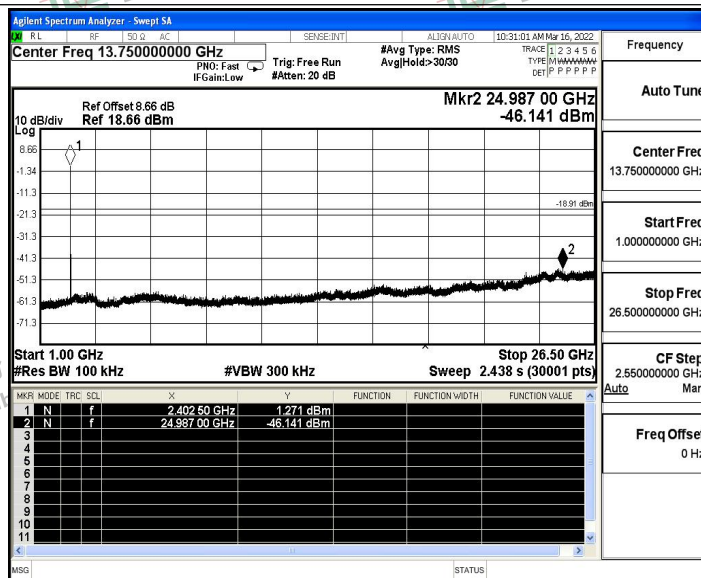


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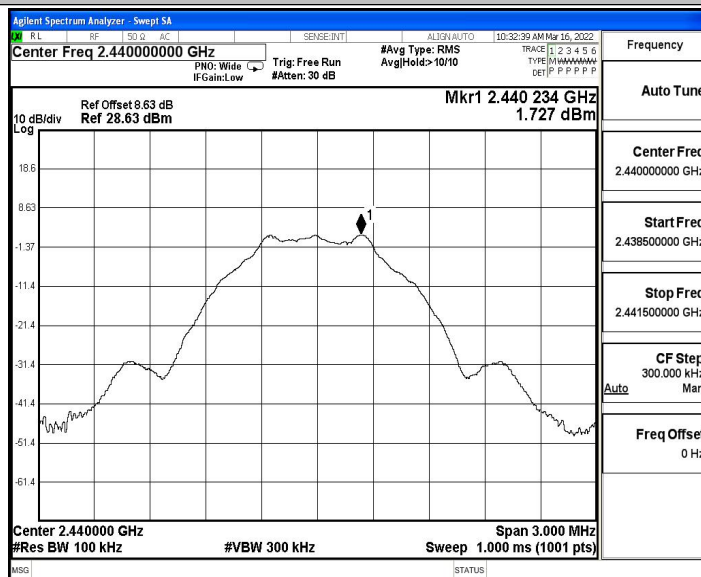
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

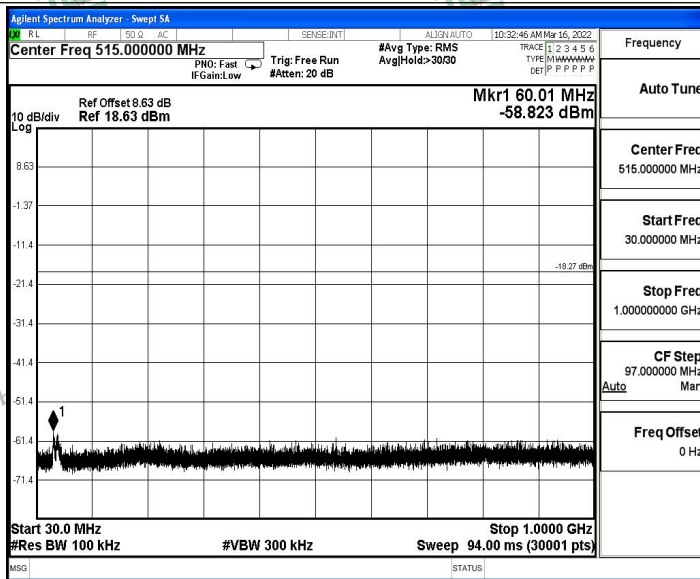


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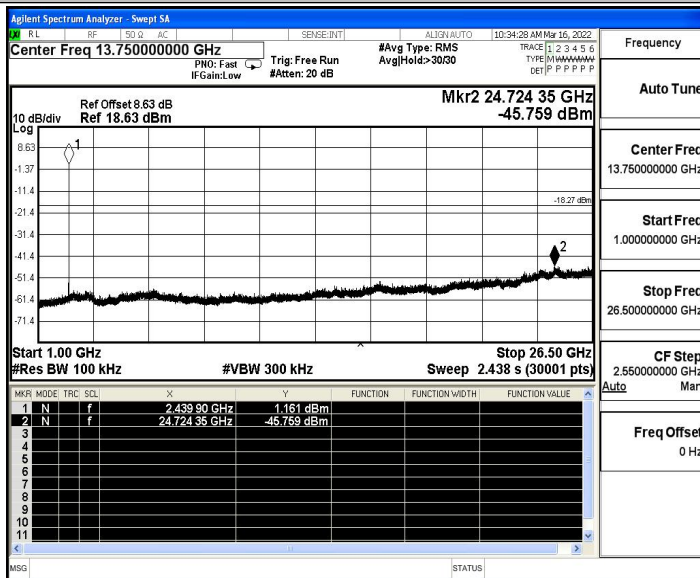
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

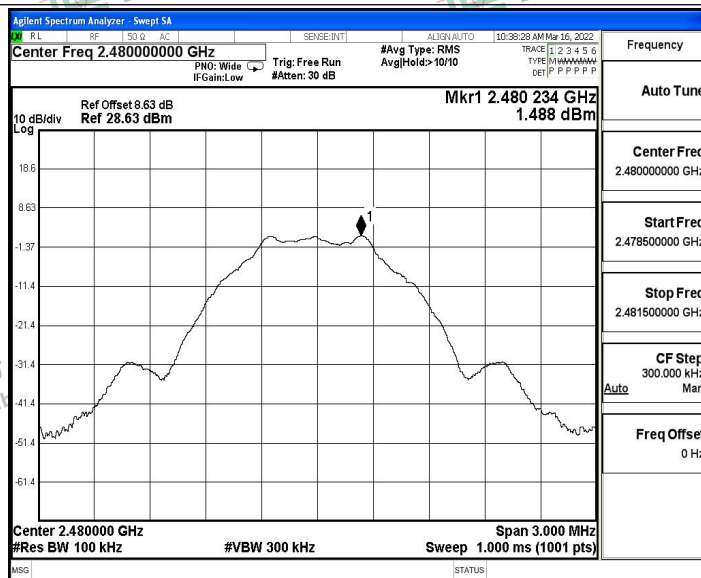


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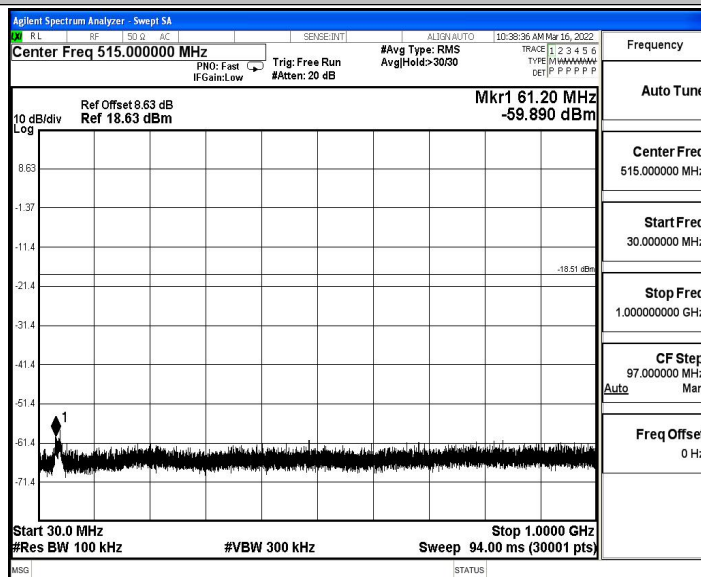
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

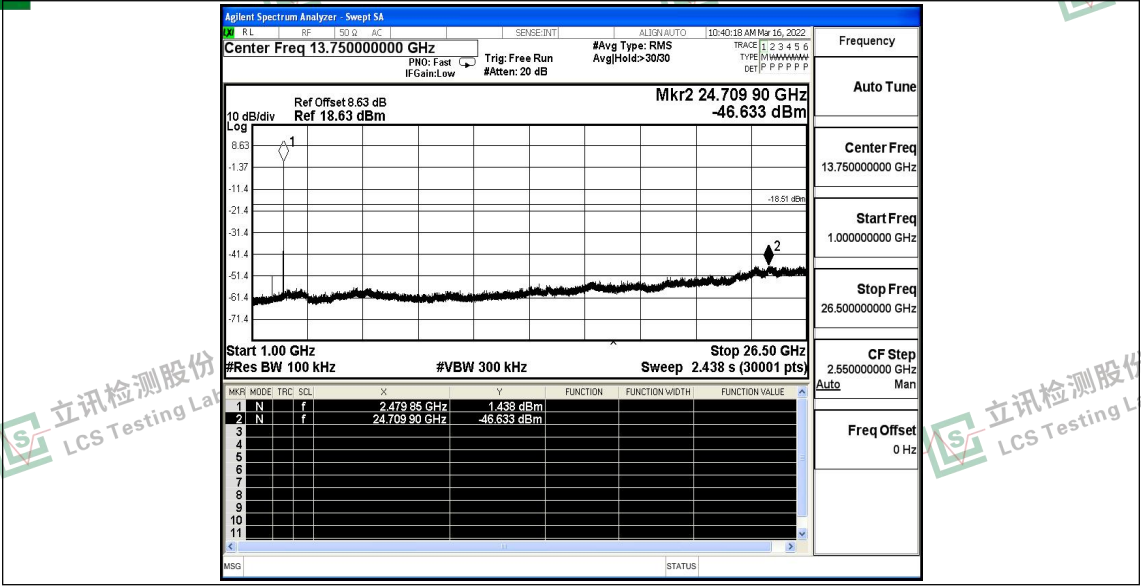


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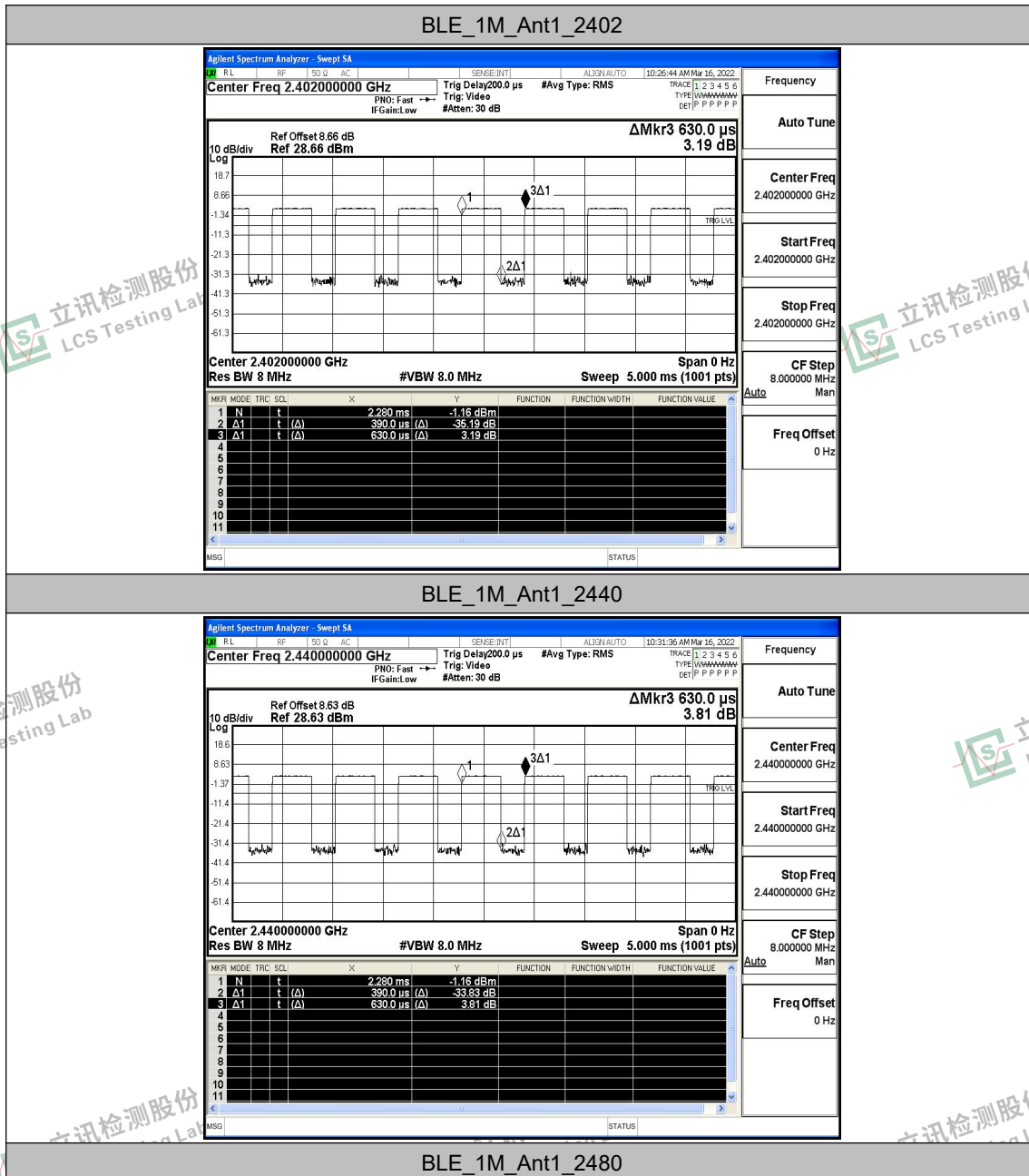
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T (kHz)	Limit	Verdict
BLE_1M	Ant1	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	0.38	0.63	0.6032	60.32	2.20	2.56	---	---



Test Graphs

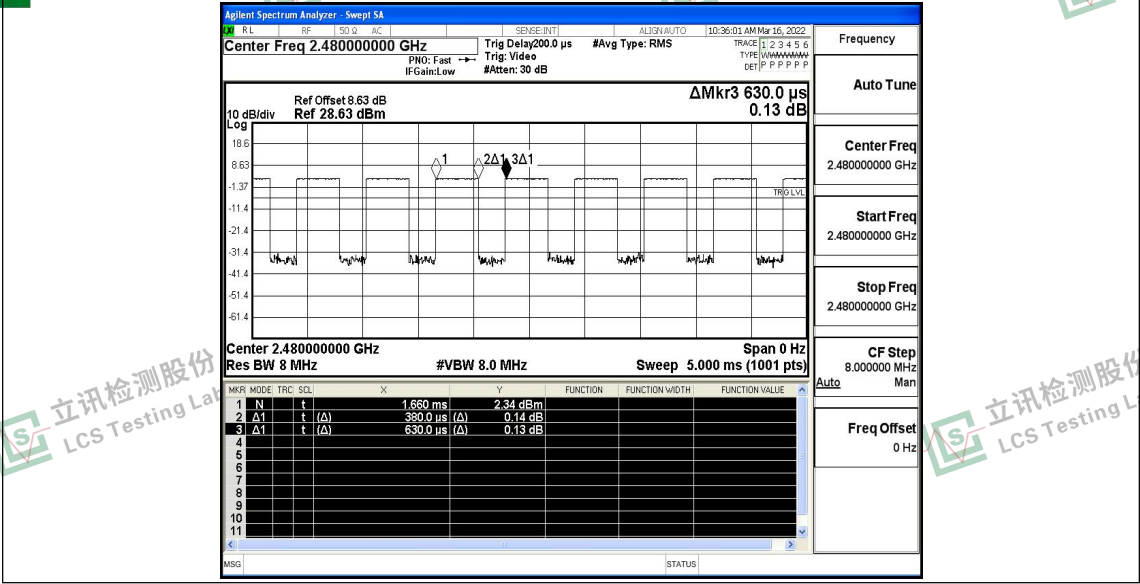


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.45	≤-41.20	47.75	≤54	PASS
				AV	2386.625	-46.8	≤-41.20	48.40	≤54	PASS
				AV	2390.000	-47.19	≤-41.20	48.01	≤54	PASS
				Peak	2310.000	-38.56	≤-21.20	56.64	≤74	PASS
				Peak	2380.745	-36.89	≤-21.20	58.31	≤74	PASS
				Peak	2390.000	-37.68	≤-21.20	57.52	≤74	PASS
		High	2480	AV	2483.500	-46.26	≤-41.20	48.94	≤54	PASS
				AV	2483.520	-46.26	≤-41.20	48.94	≤54	PASS
				AV	2500.000	-46.54	≤-41.20	48.66	≤54	PASS
				Peak	2483.500	-38.51	≤-21.20	56.69	≤74	PASS
				Peak	2498.880	-36.17	≤-21.20	59.03	≤74	PASS
				Peak	2500.000	-38.05	≤-21.20	57.15	≤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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Test Graphs

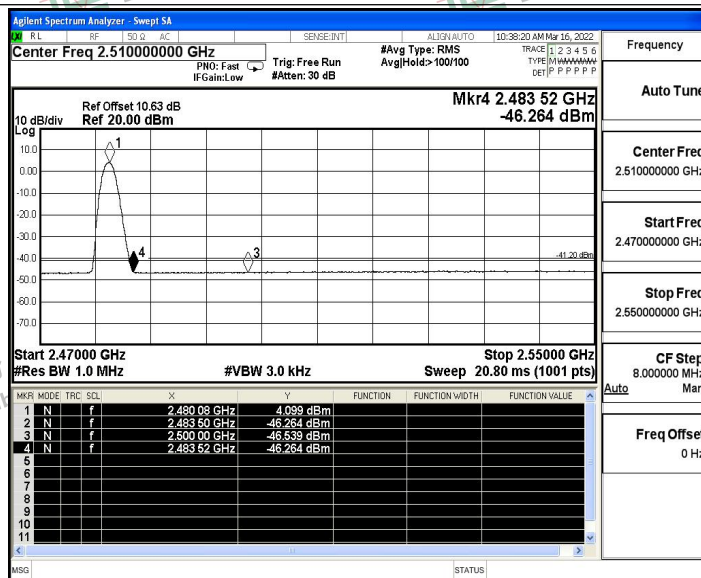


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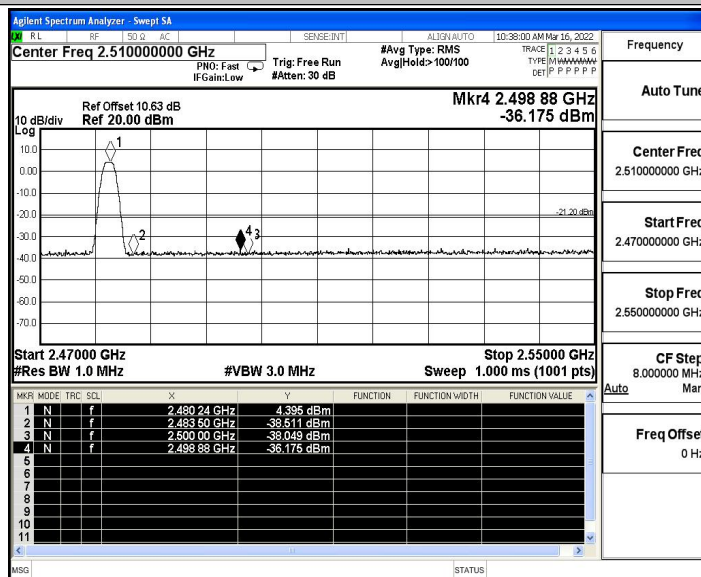
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BLE_1M_Ant1_High_2480_Peak



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