



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TABLET PC

Test Model: H819E

Environmental Conditions

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





B.1 DTS Bandwidth

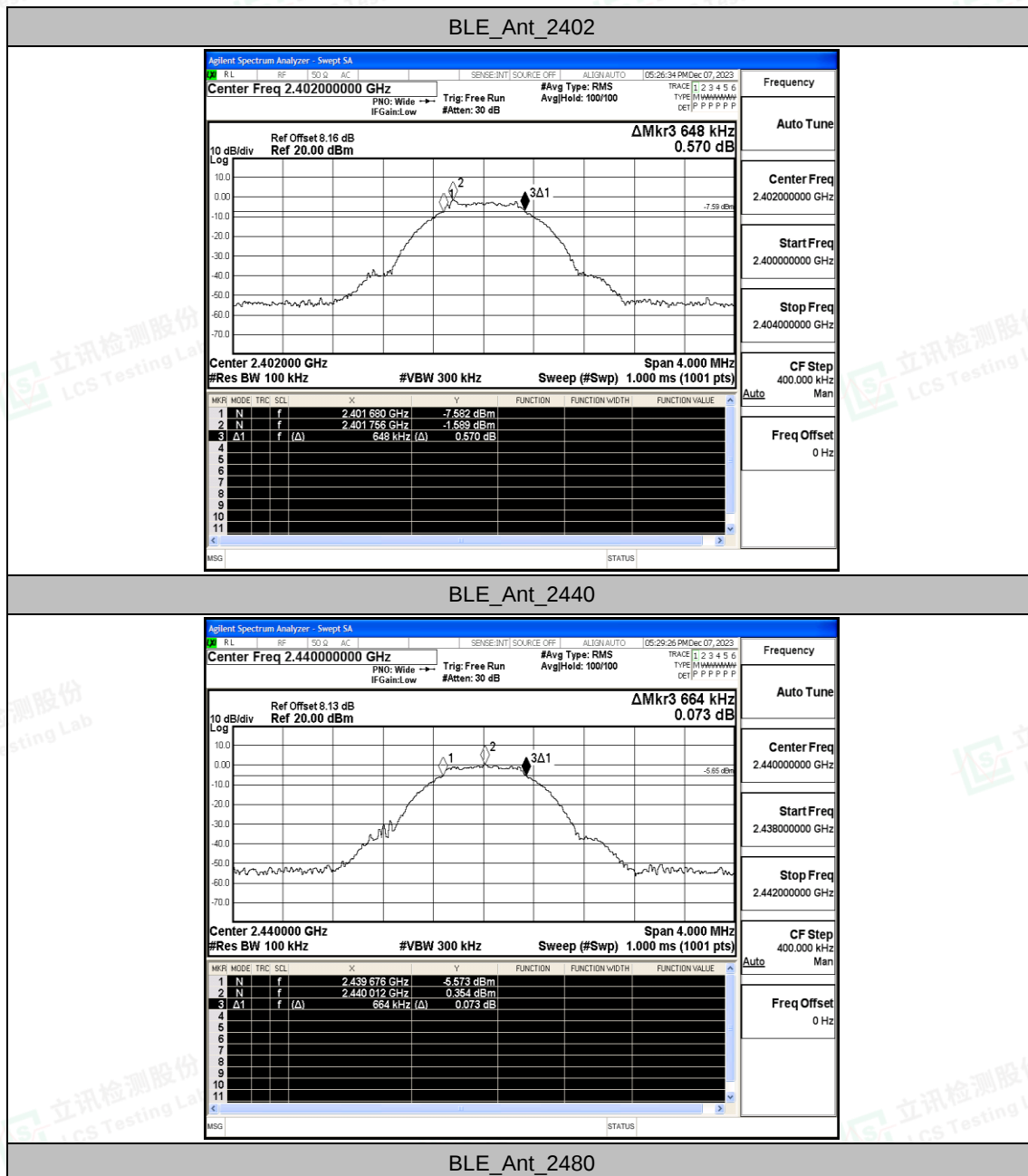
Test Result

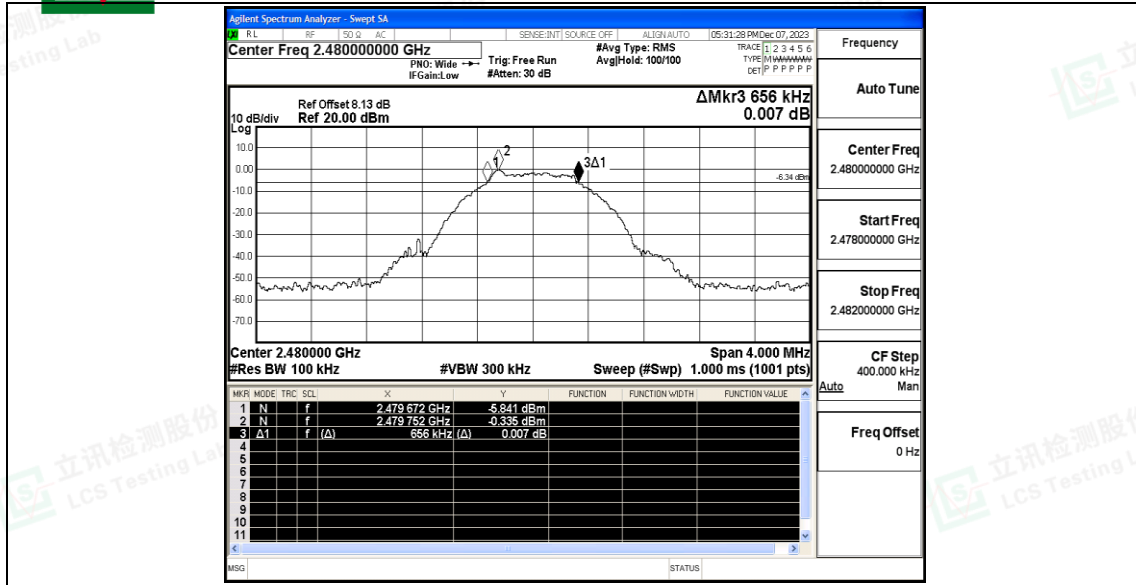
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.648	2401.680	2402.328	0.5	PASS
		2440	0.664	2439.676	2440.340	0.5	PASS
		2480	0.656	2479.672	2480.328	0.5	PASS





Test Graphs







B.2 Maximum conducted output power

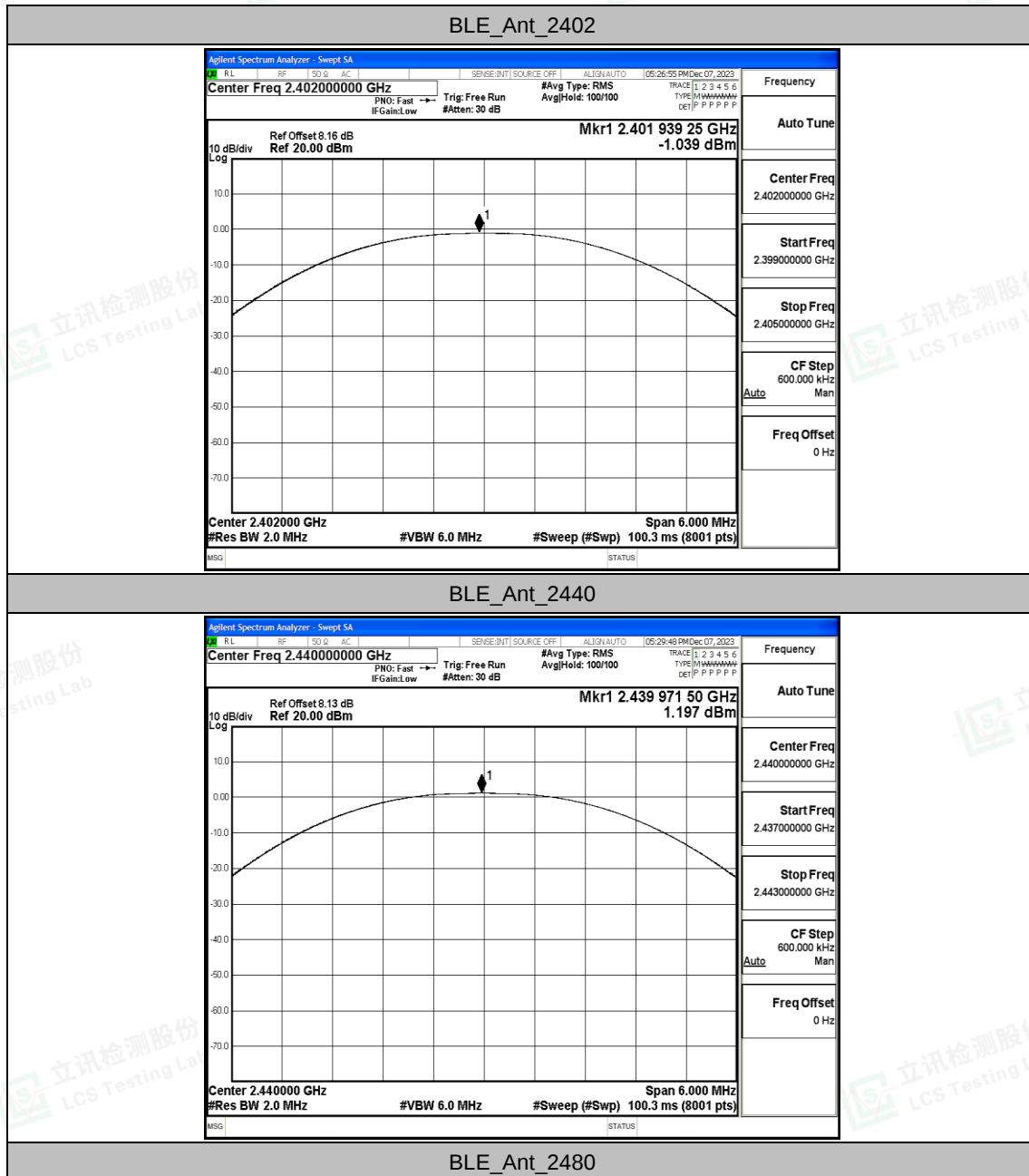
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	-1.04	≤30	PASS
		2440	1.2	≤30	PASS
		2480	0.11	≤30	PASS





Test Graphs

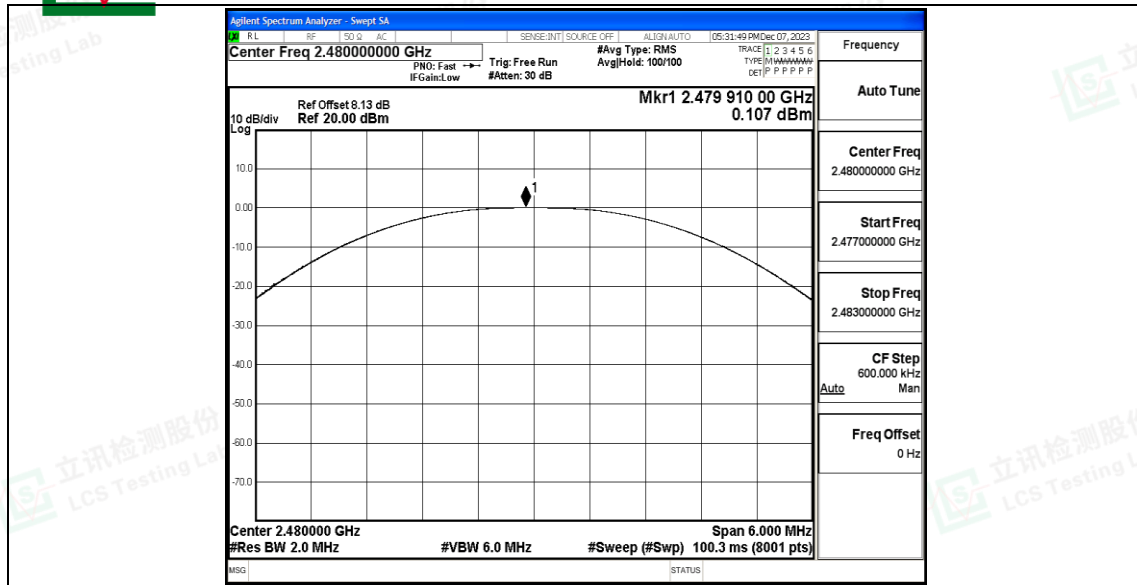


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B.3 Maximum power spectral density

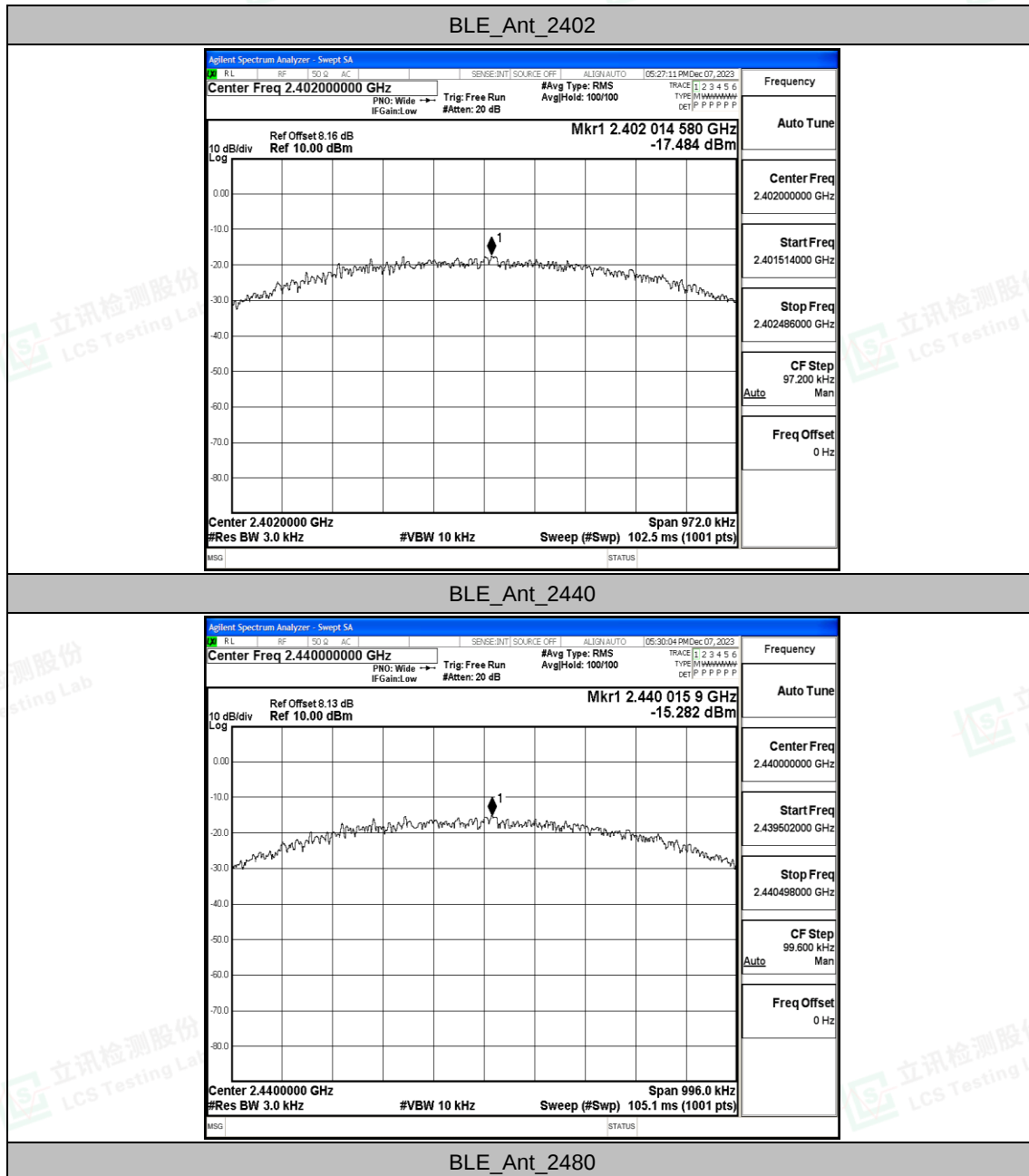
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-17.48	≤8.00	PASS
		2440	-15.28	≤8.00	PASS
		2480	-16.39	≤8.00	PASS





Test Graphs

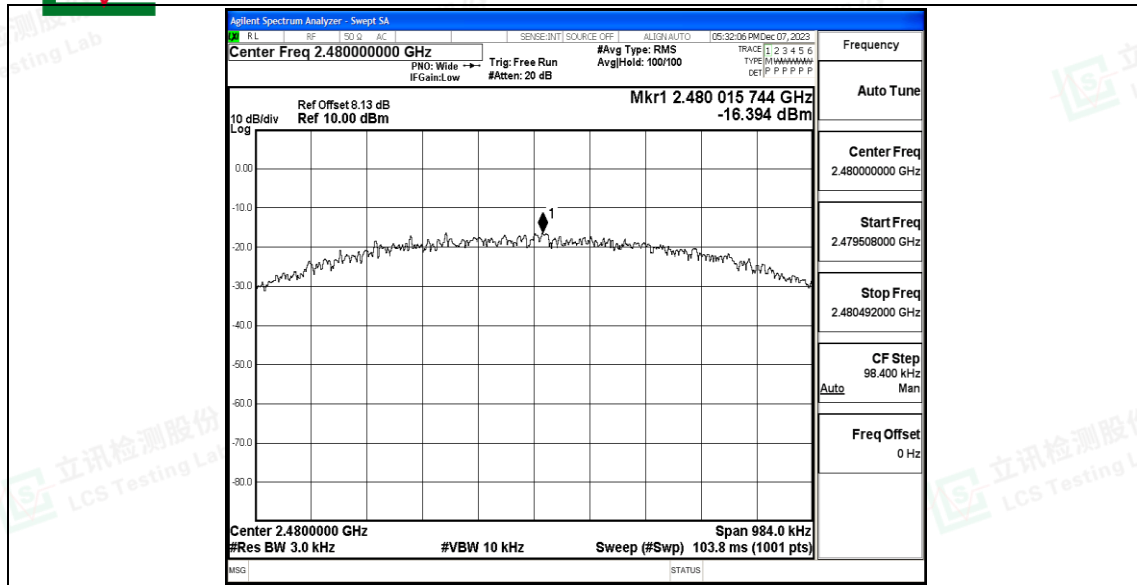


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B.4 Band edge measurements

Test Result

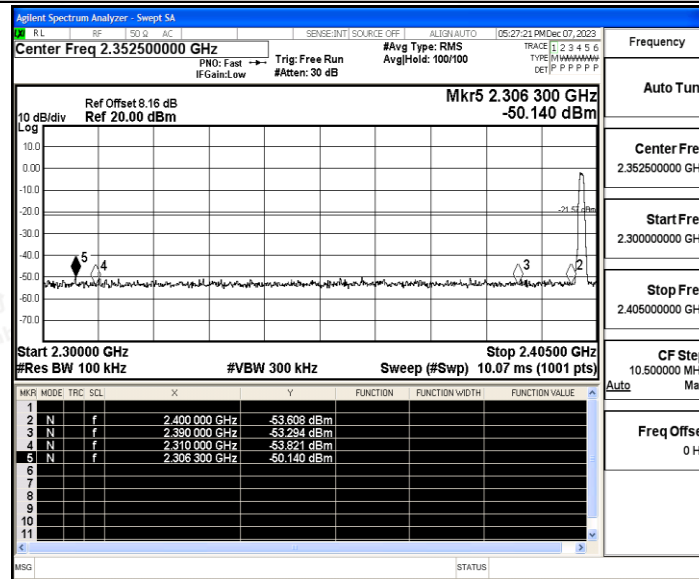
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-1.57	-50.14	≤-21.57	PASS
		High	2480	-0.40	-49.96	≤-20.4	PASS



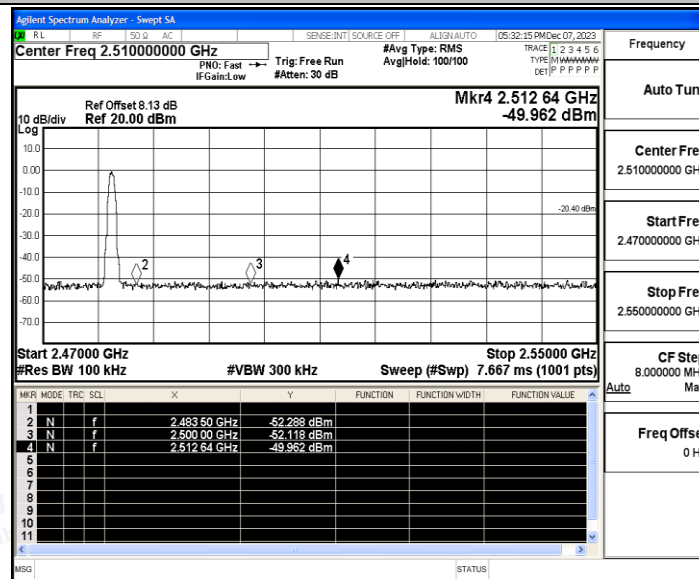


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480



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B.5 Conducted Spurious Emission

Test Result

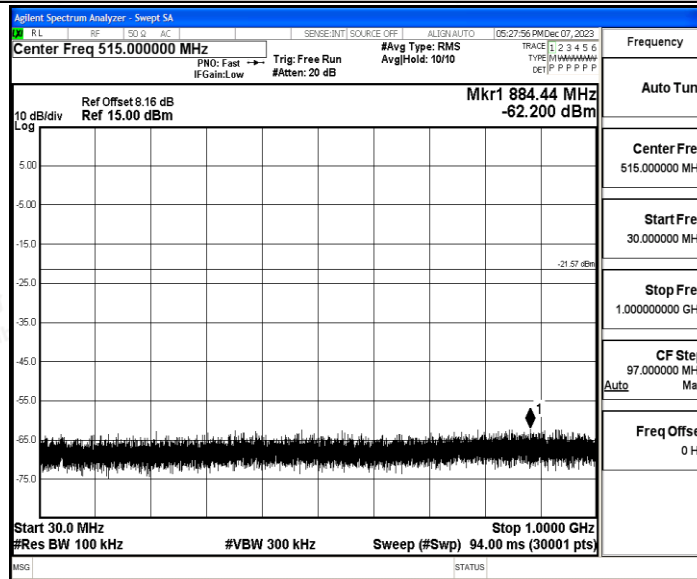
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	30~1000	-1.57	-62.2	≤-21.57	PASS
			1000~26500	-1.57	-49.07	≤-21.57	PASS
		2440	30~1000	0.72	-61.02	≤-19.28	PASS
			1000~26500	0.72	-48.12	≤-19.28	PASS
		2480	30~1000	-0.40	-61.11	≤-20.4	PASS
			1000~26500	-0.40	-49.25	≤-20.4	PASS



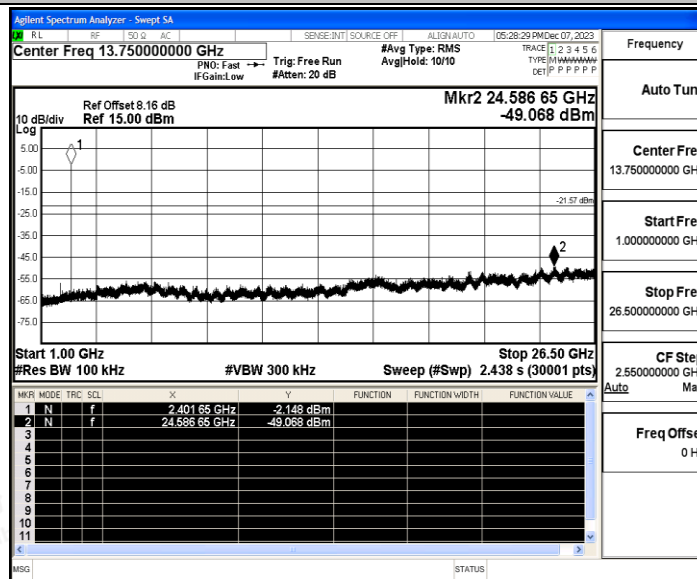


Test Graphs

BLE_Ant_2402_30~1000



BLE_Ant_2402_1000~26500



BLE_Ant_2440_30~1000

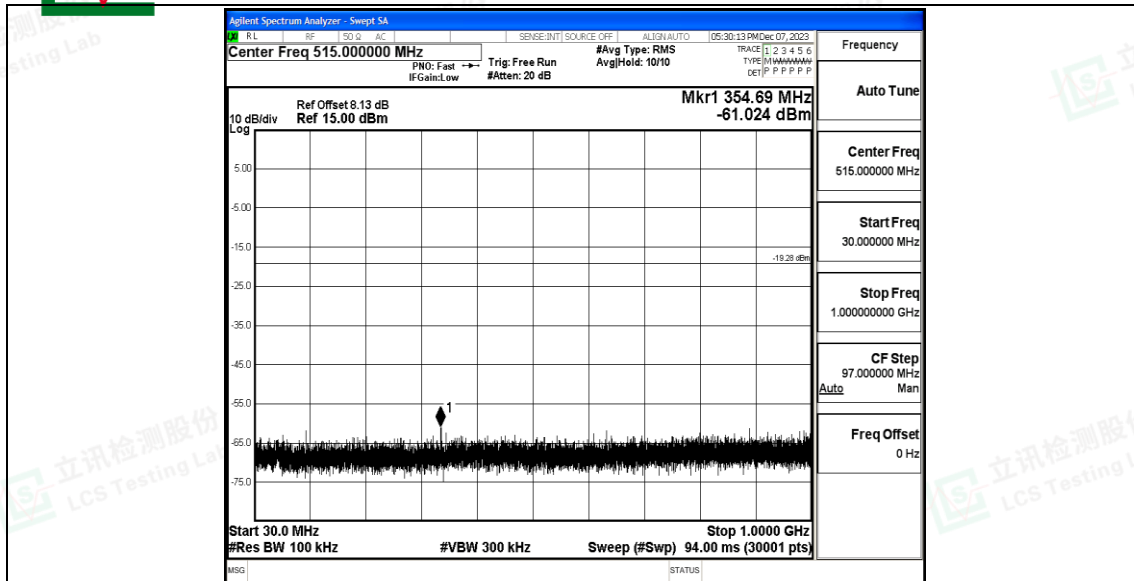


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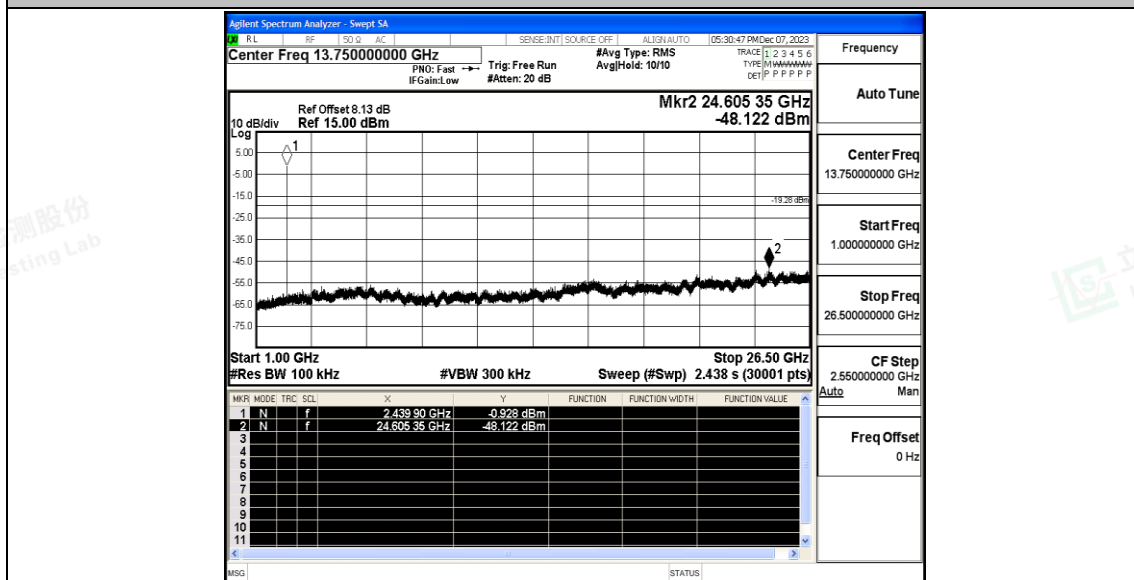
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BLE_Ant_2440_1000~26500



BLE_Ant_2480_30~1000

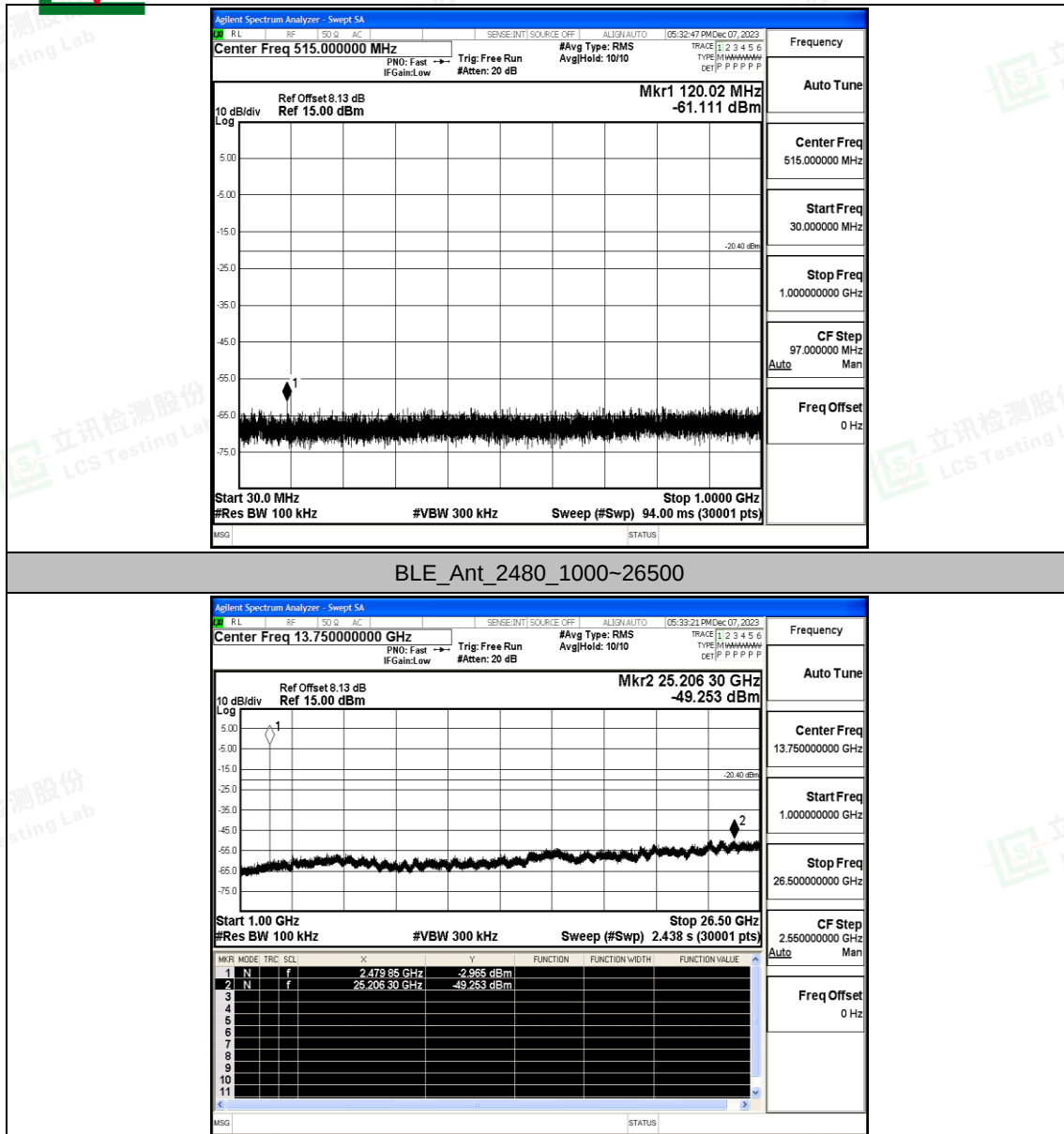


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B.6 Duty Cycle

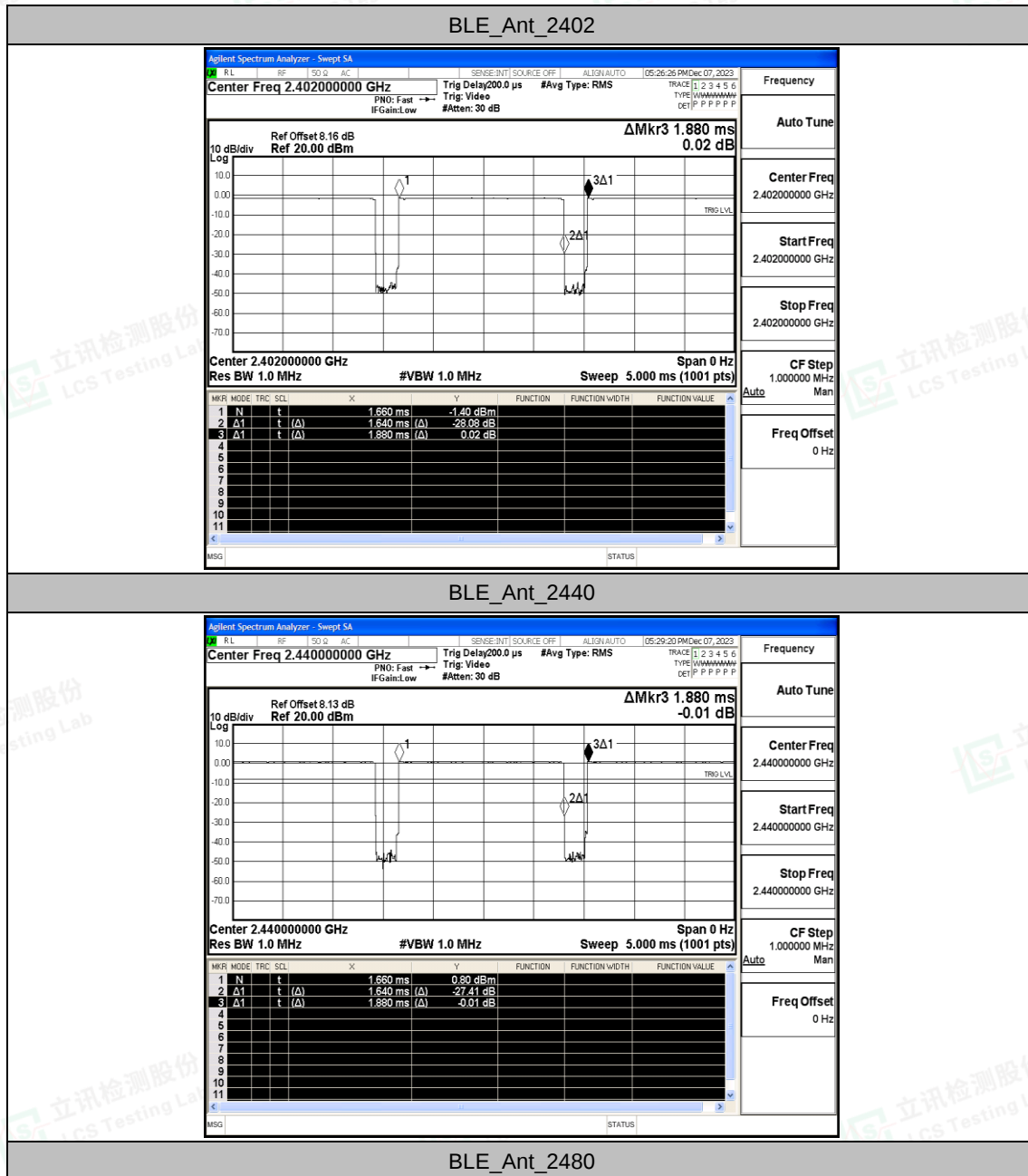
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T
BLE	Ant	2402	1.64	1.88	0.8723	87.23	0.59	0.61
		2440	1.64	1.88	0.8723	87.23	0.59	0.61
		2480	1.64	1.88	0.8723	87.23	0.59	0.61





Test Graphs

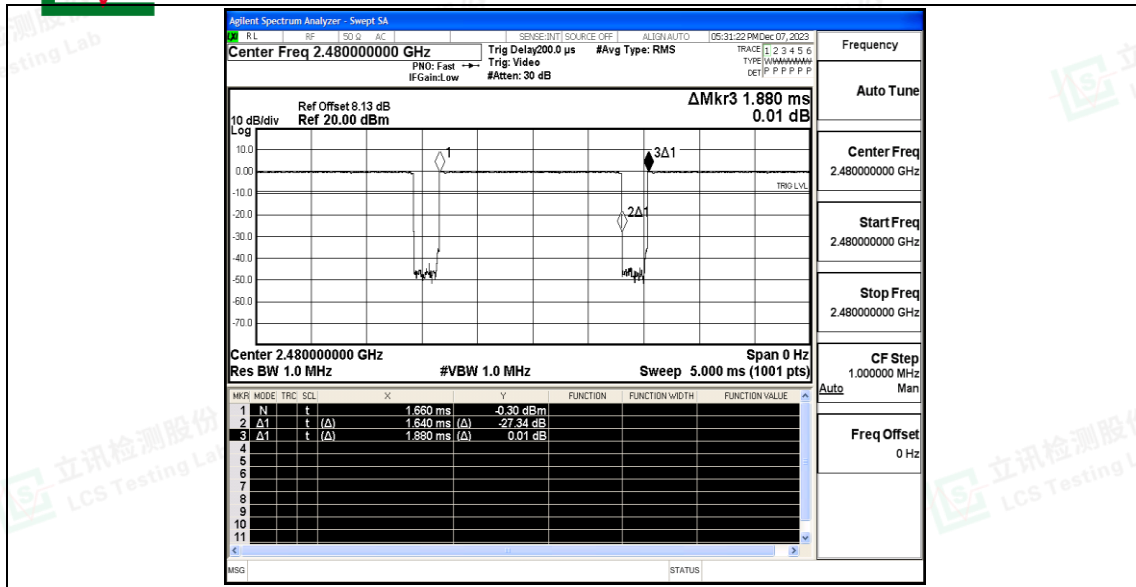


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant	Low	2402	AV	2310.000	-49.09	≤-41.20	46.11	≤54	PASS
				AV	2372.240	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2390.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2310.000	-41.76	≤-21.20	53.44	≤74	PASS
				Peak	2376.440	-39.07	≤-21.20	56.13	≤74	PASS
				Peak	2390.000	-42.3	≤-21.20	52.90	≤74	PASS
		High	2480	AV	2483.500	-47.85	≤-41.20	47.35	≤54	PASS
				AV	2483.520	-47.85	≤-41.20	47.35	≤54	PASS
				AV	2500.000	-48.53	≤-41.20	46.67	≤54	PASS
				Peak	2483.500	-41.61	≤-21.20	53.59	≤74	PASS
				Peak	2495.600	-39.35	≤-21.20	55.85	≤74	PASS
				Peak	2500.000	-41.69	≤-21.20	53.51	≤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.

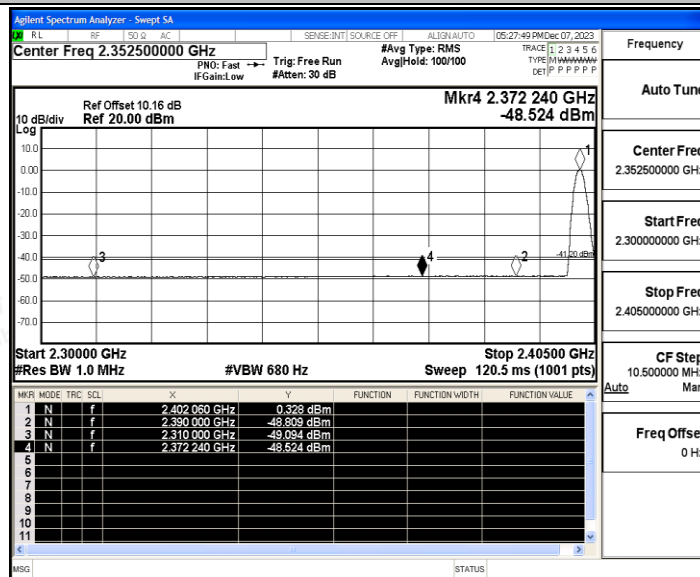


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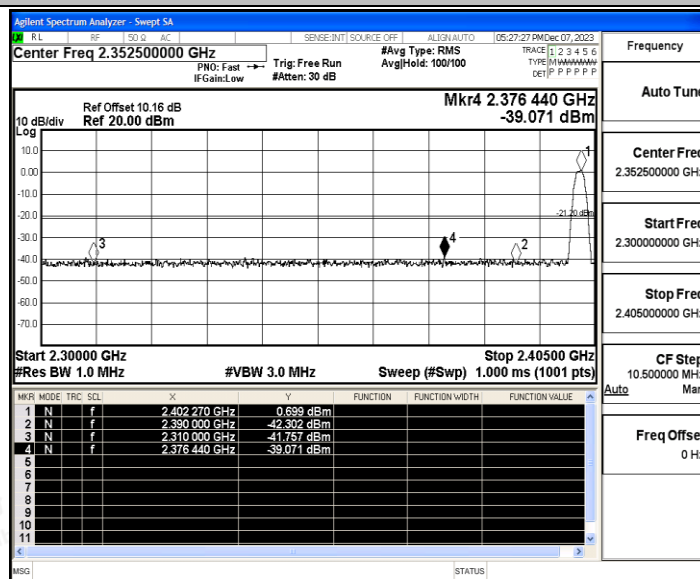


Test Graphs

BLE_Ant_Low_2402_AV



BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV

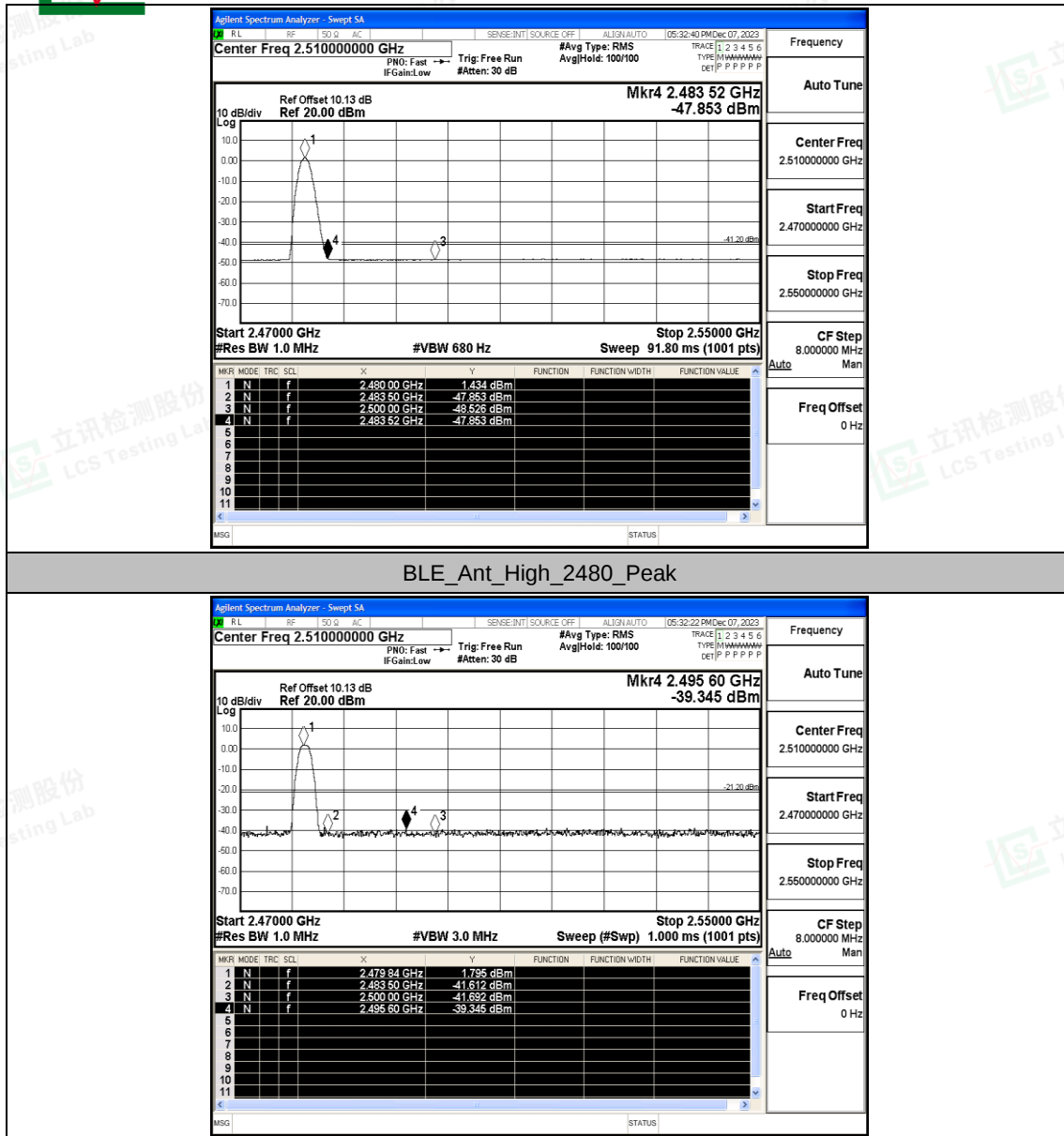


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