



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Nexi-7

Test Model: Nexi-7

Environmental Conditions

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



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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	0.716	2401.624	2402.340	0.5	PASS
		2440	0.712	2439.628	2440.340	0.5	PASS
		2480	0.716	2479.624	2480.340	0.5	PASS



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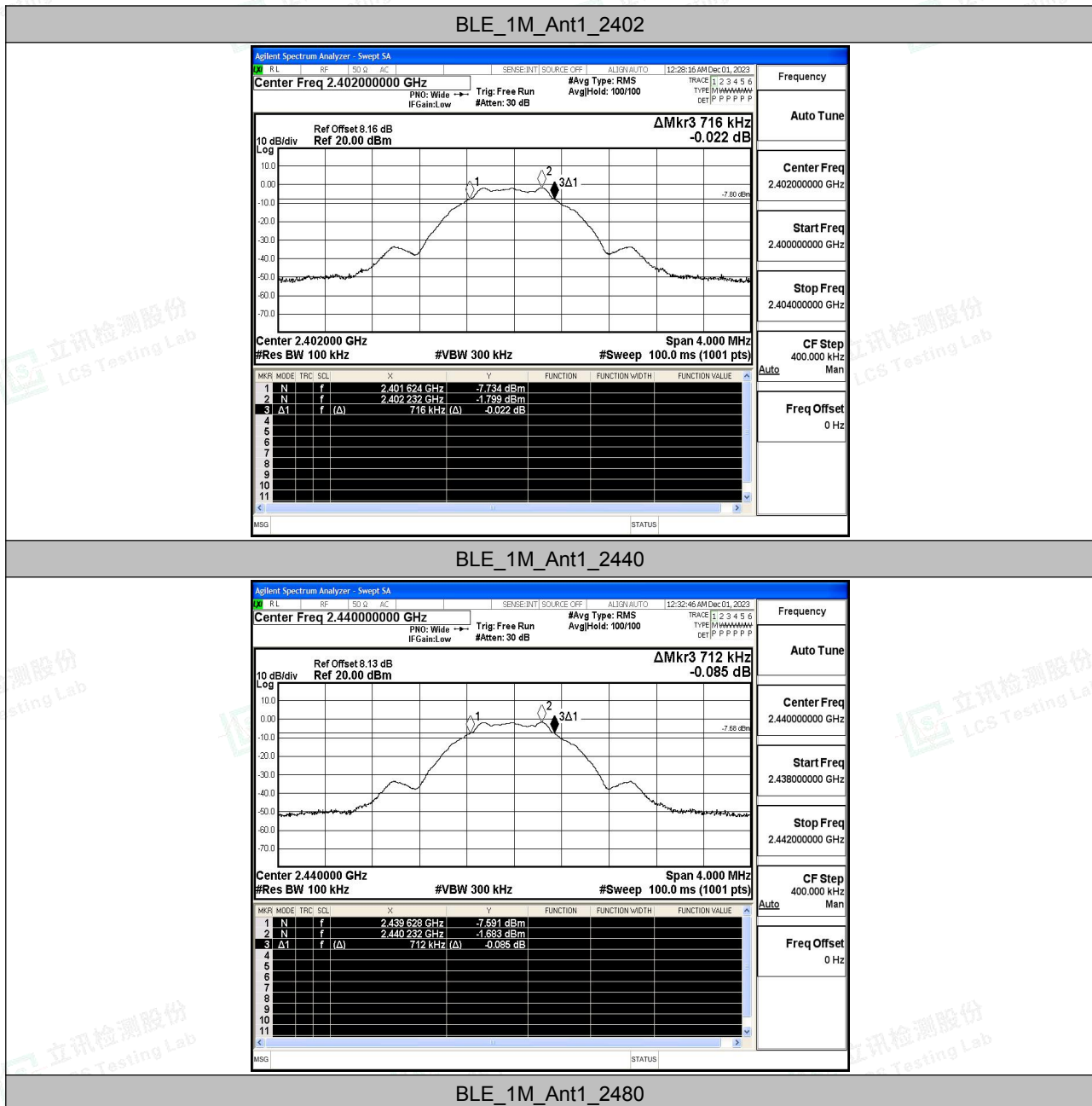
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Test Graphs

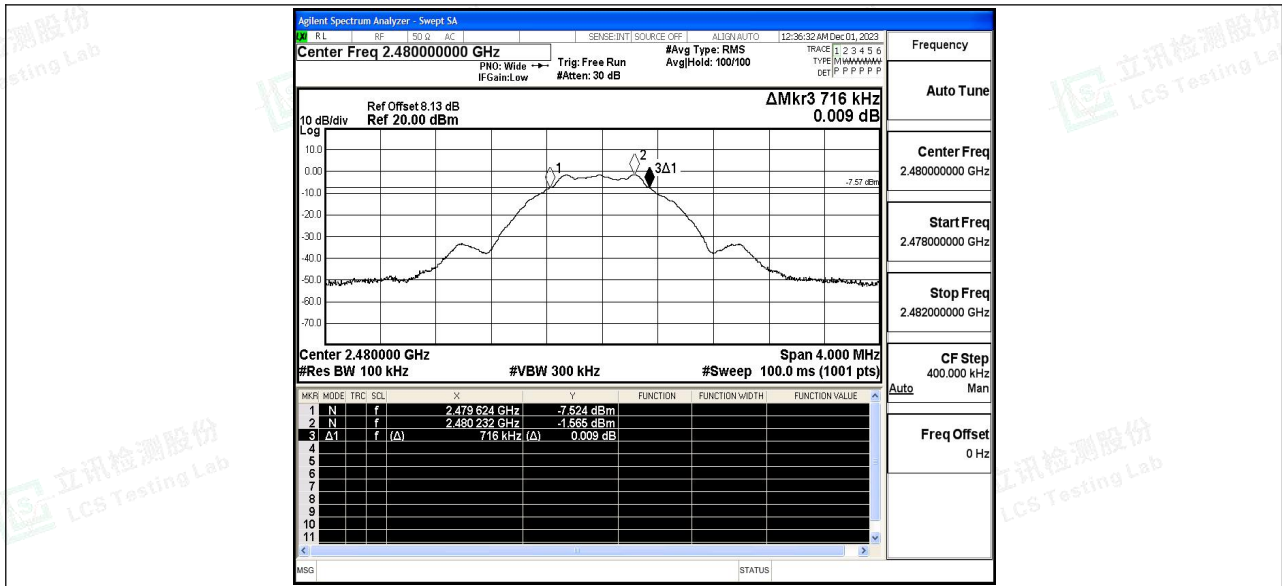


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B.2 Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.86	≤30	PASS
		2440	-0.75	≤30	PASS
		2480	-0.62	≤30	PASS



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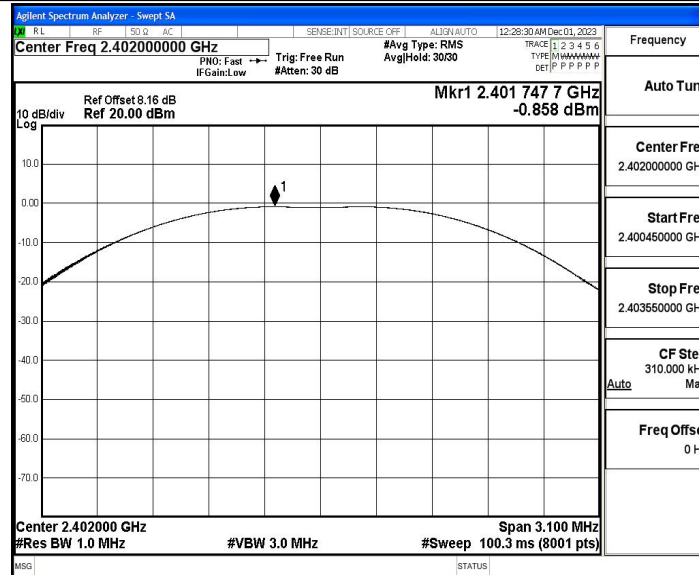
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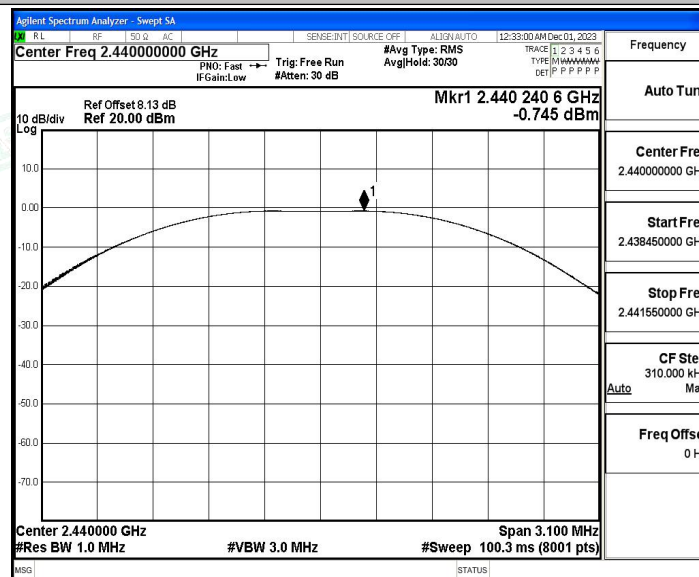


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

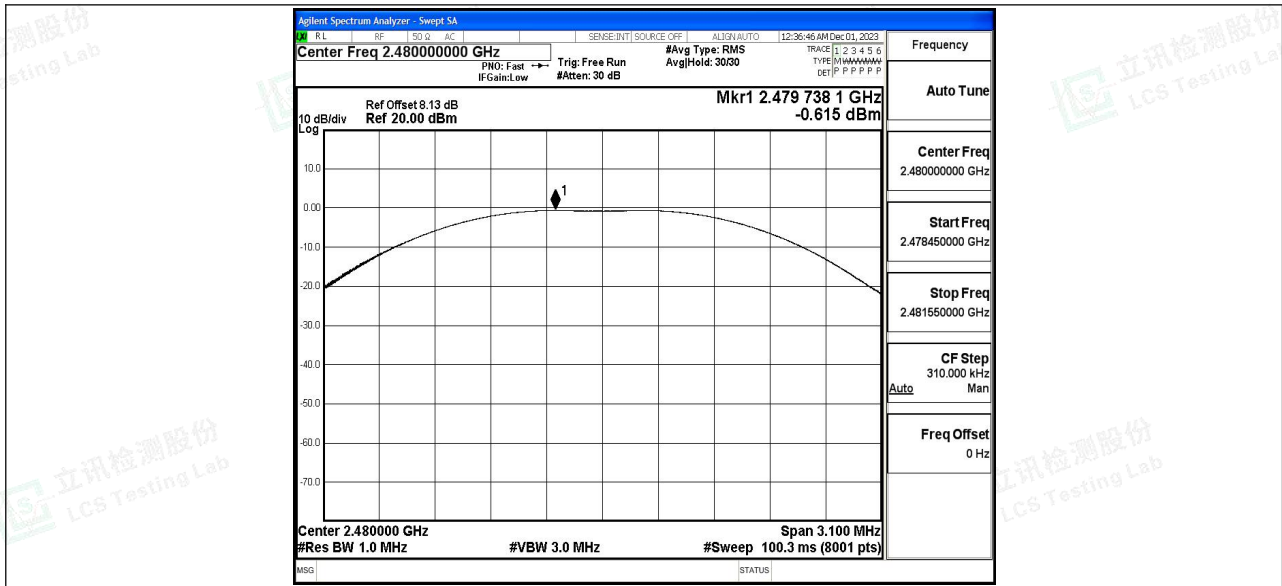


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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.93	≤8.00	PASS
		2440	-15.79	≤8.00	PASS
		2480	-15.71	≤8.00	PASS



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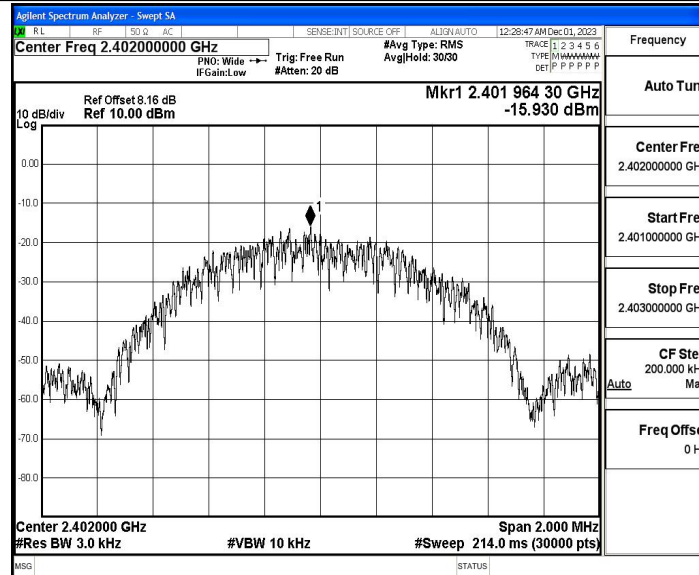
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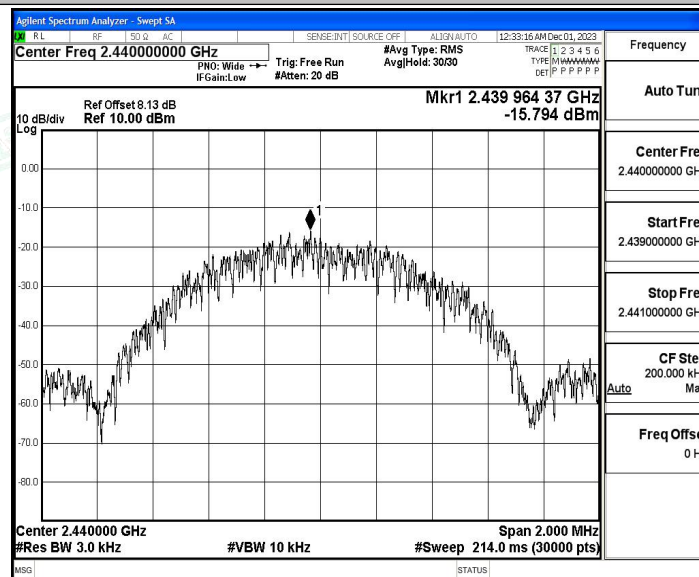


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

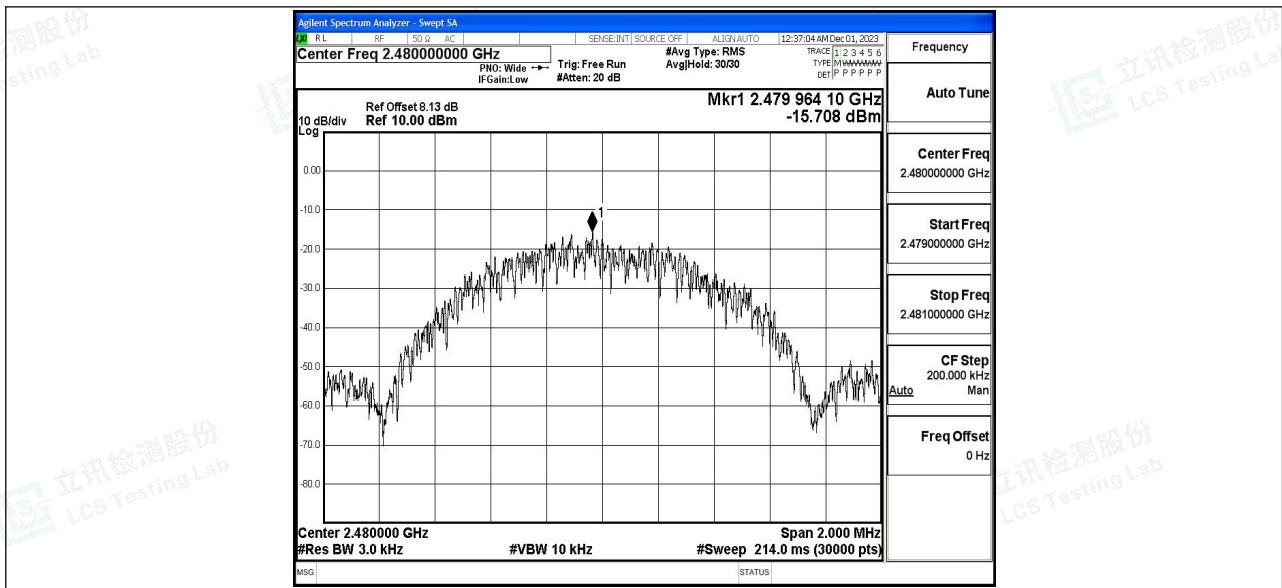


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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.57	-59.45	≤ -21.57	PASS
		High	2480	-1.44	-60.3	≤ -21.44	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	-1.78	-1.78	---	PASS
			30~1000	-1.78	-61.99	≤ -21.78	PASS
			1000~26500	-1.78	-48.22	≤ -21.78	PASS
		2440	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-61.63	≤ -21.71	PASS
			1000~26500	-1.71	-49.49	≤ -21.71	PASS
		2480	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-62.04	≤ -21.55	PASS
			1000~26500	-1.55	-49.1	≤ -21.55	PASS



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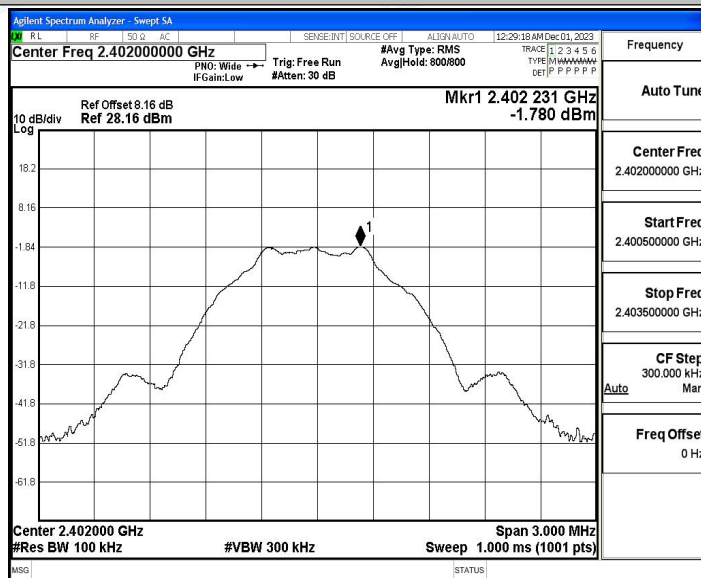
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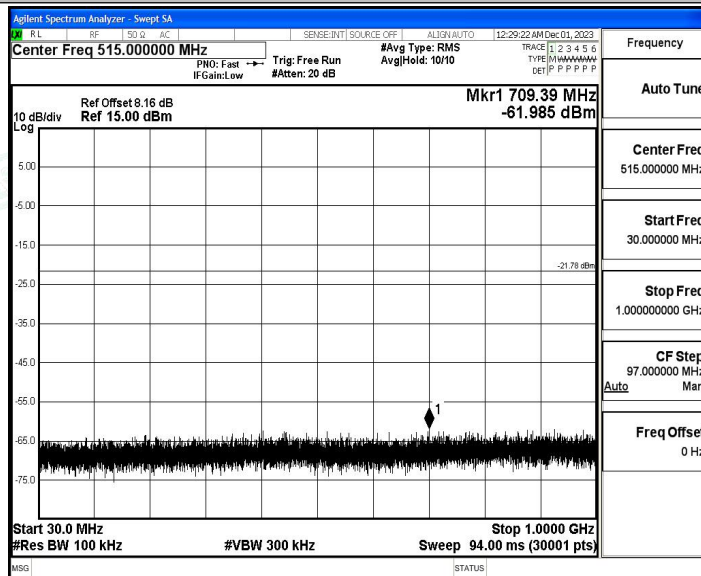


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

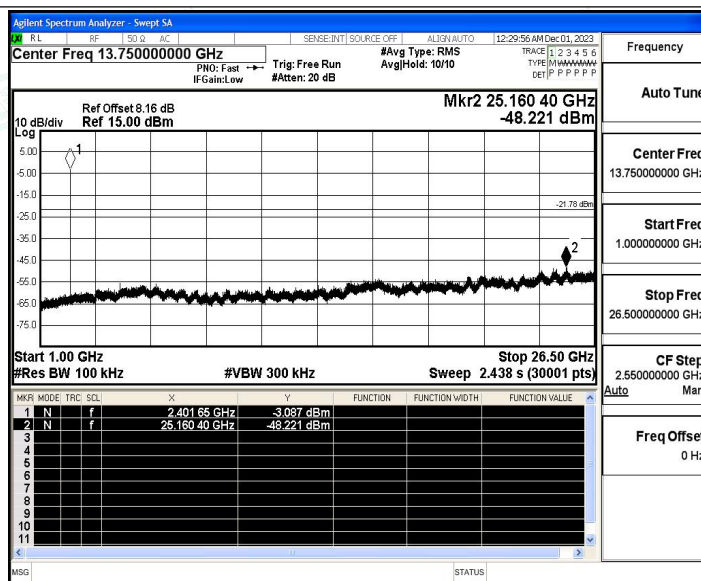


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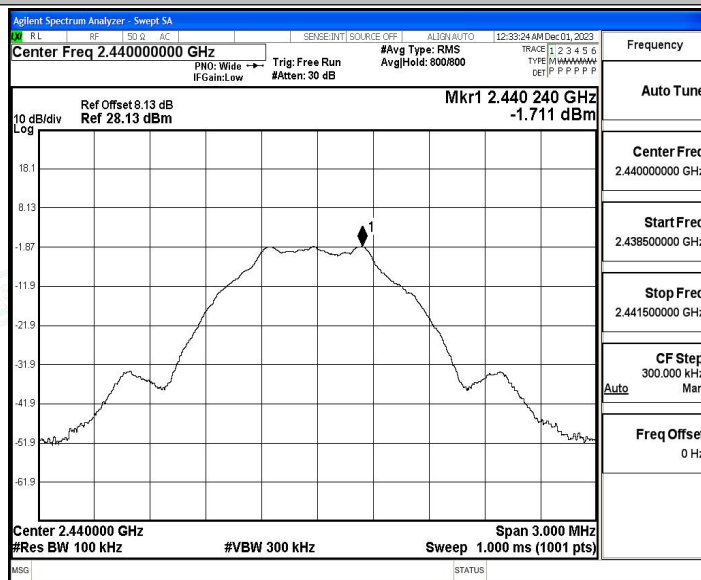
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

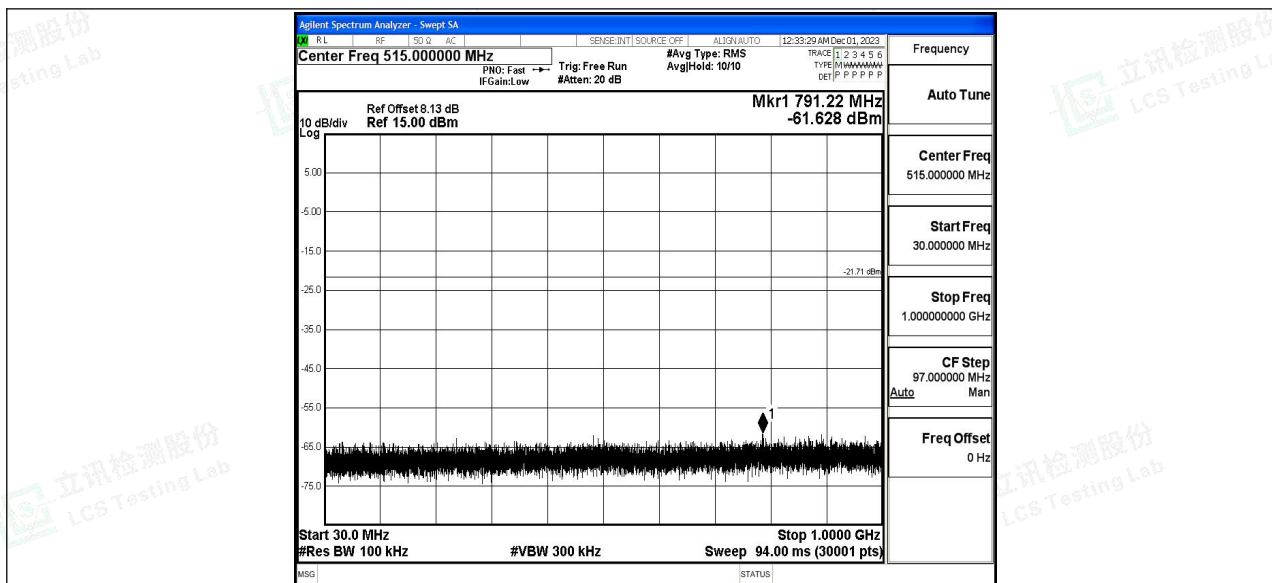


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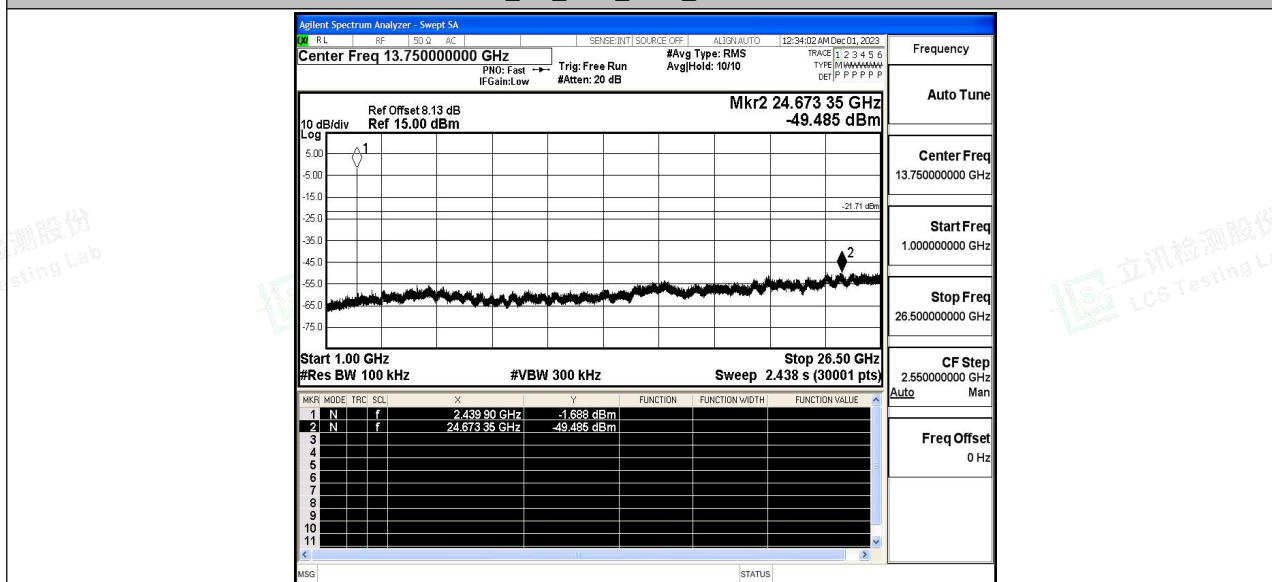
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

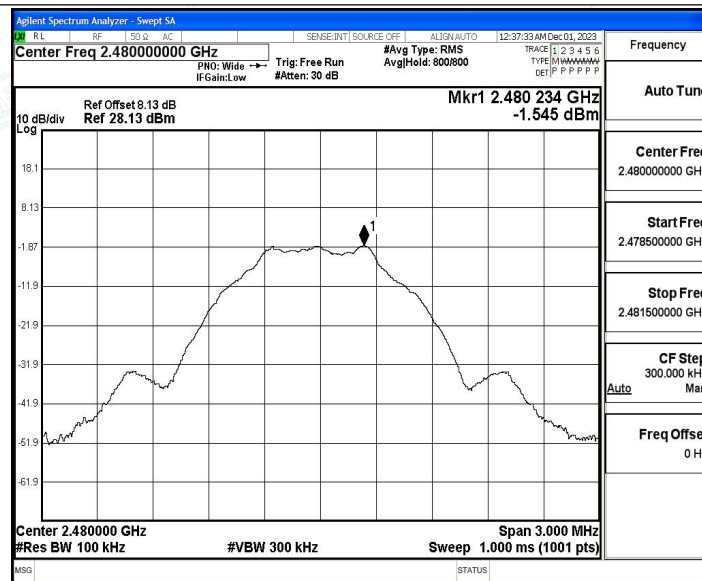


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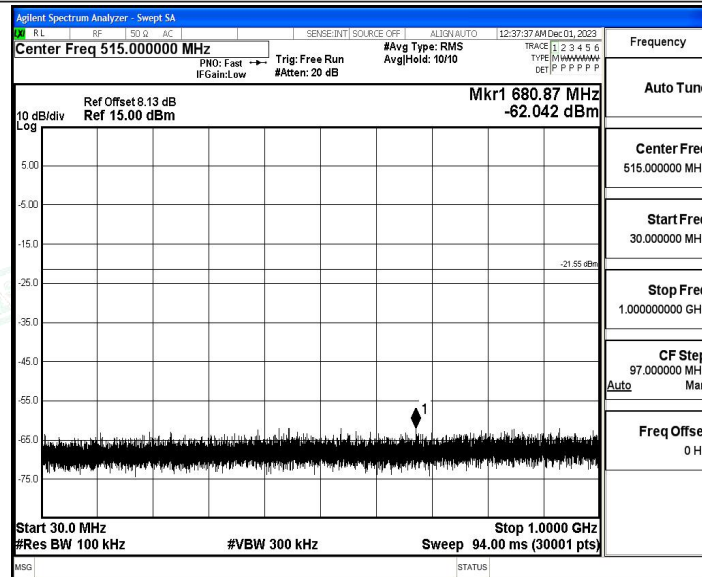
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

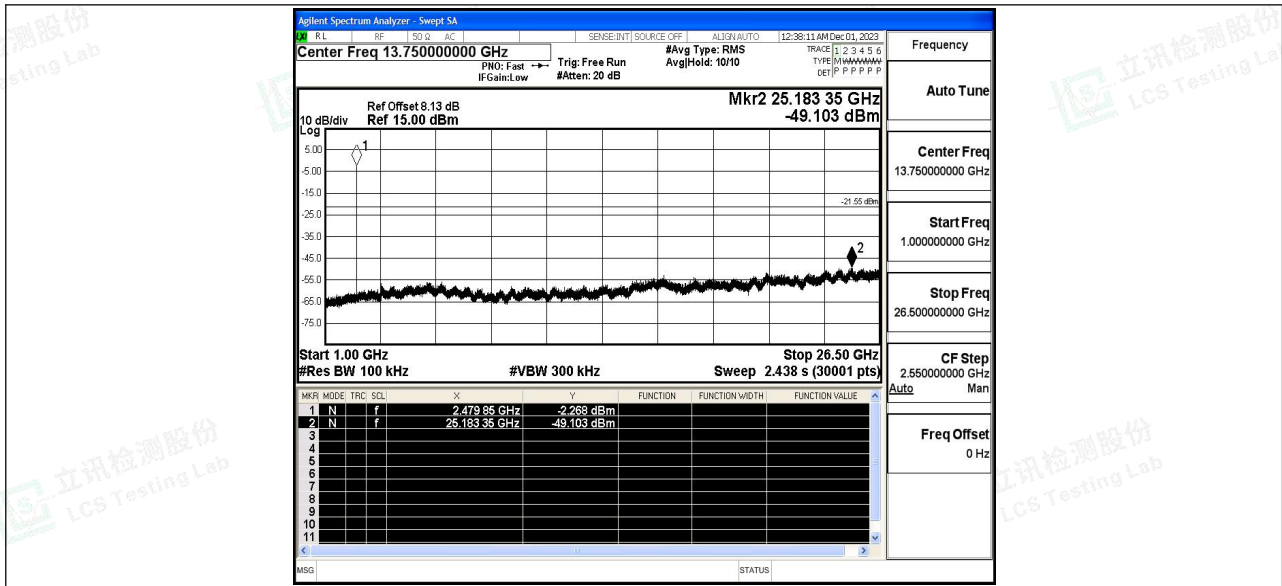


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B.6 Duty Cycle

Test Result

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



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Test Graphs

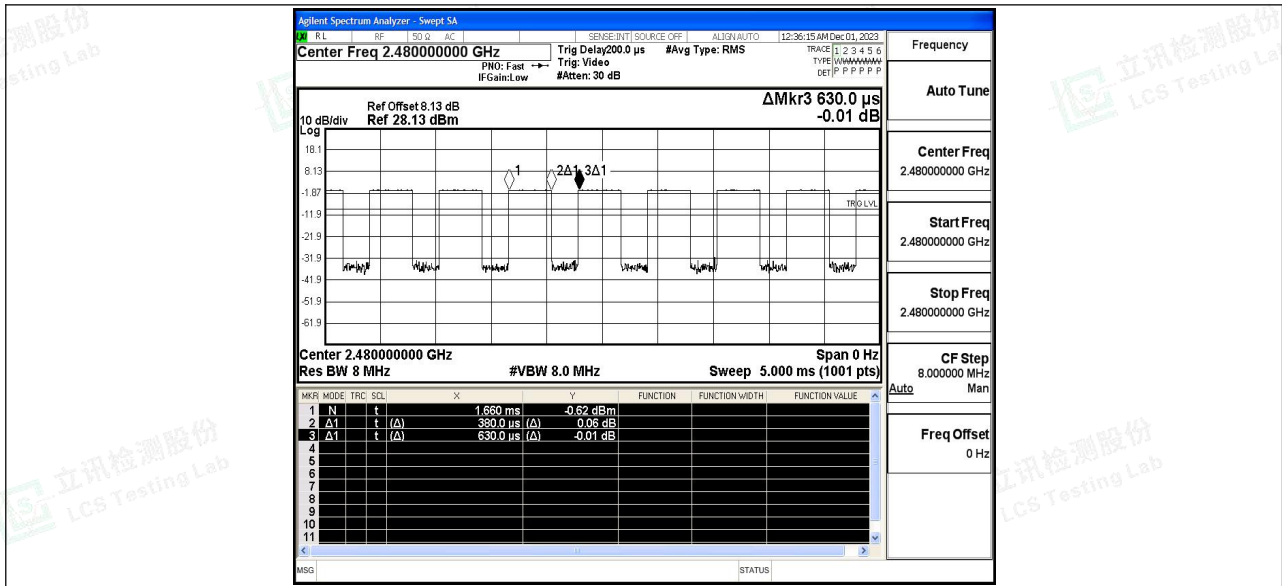


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B.7 Emissions in Restricted Bands

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	-58.47	≤-41.20	36.73	≤54	PASS
				AV	2376.965	-57.82	≤-41.20	37.38	≤54	PASS
				AV	2390.000	-58.23	≤-41.20	36.97	≤54	PASS
				Peak	2310.000	-52.16	≤-21.20	43.04	≤74	PASS
				Peak	2375.075	-48.03	≤-21.20	47.17	≤74	PASS
				Peak	2390.000	-50.51	≤-21.20	44.69	≤74	PASS
		High	2480	AV	2483.500	-54.5	≤-41.20	40.70	≤54	PASS
				AV	2483.520	-54.49	≤-41.20	40.71	≤54	PASS
				AV	2500.000	-57.97	≤-41.20	37.23	≤54	PASS
				Peak	2483.500	-51.05	≤-21.20	44.15	≤74	PASS
				Peak	2493.440	-48.7	≤-21.20	46.50	≤74	PASS
				Peak	2500.000	-50.07	≤-21.20	45.13	≤74	PASS

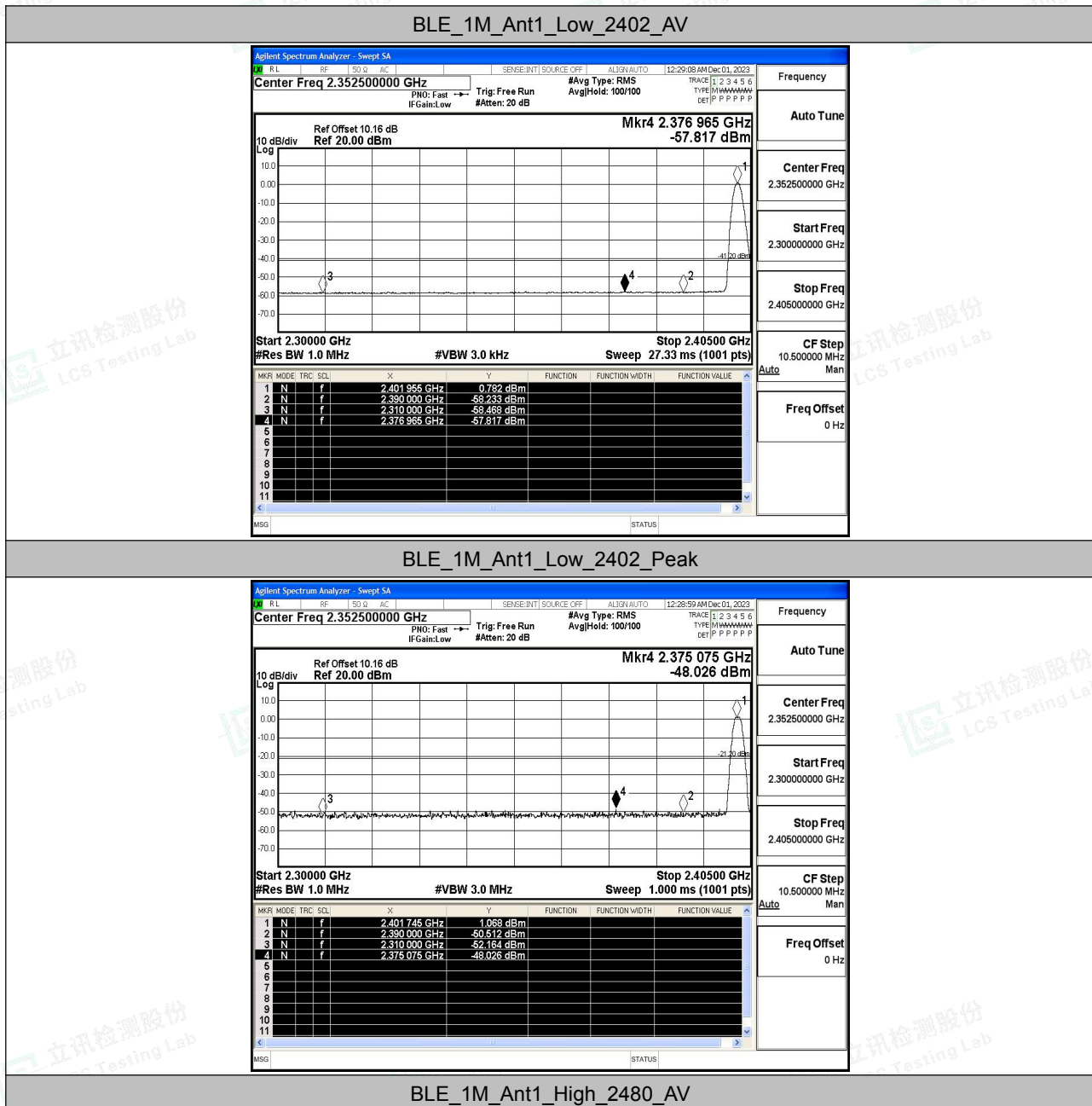
Note:

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

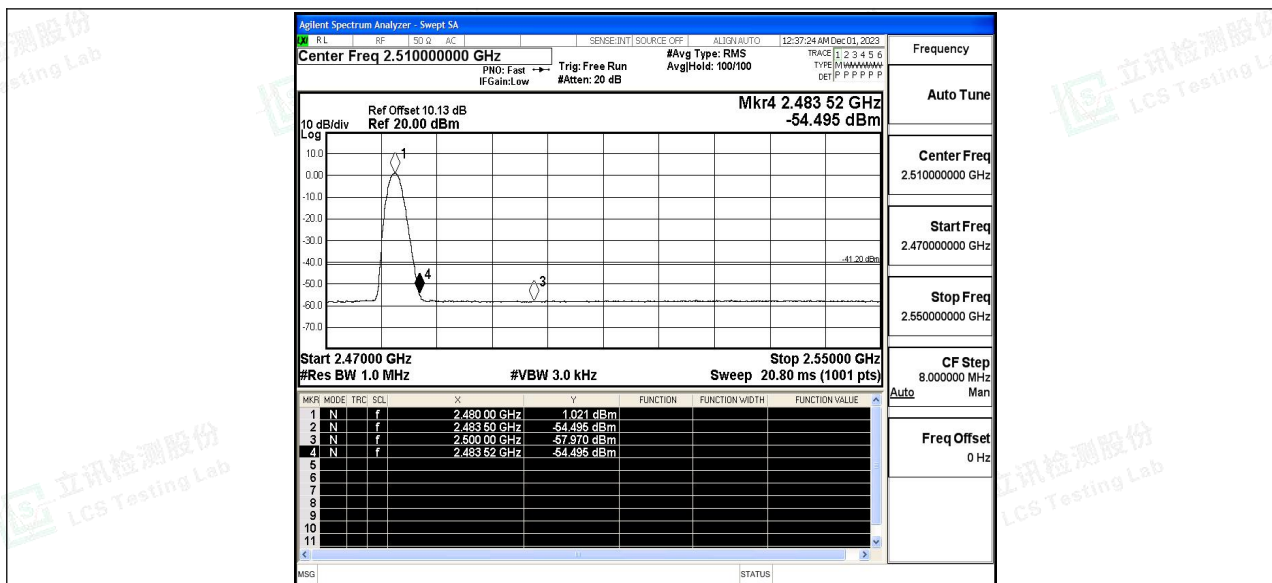


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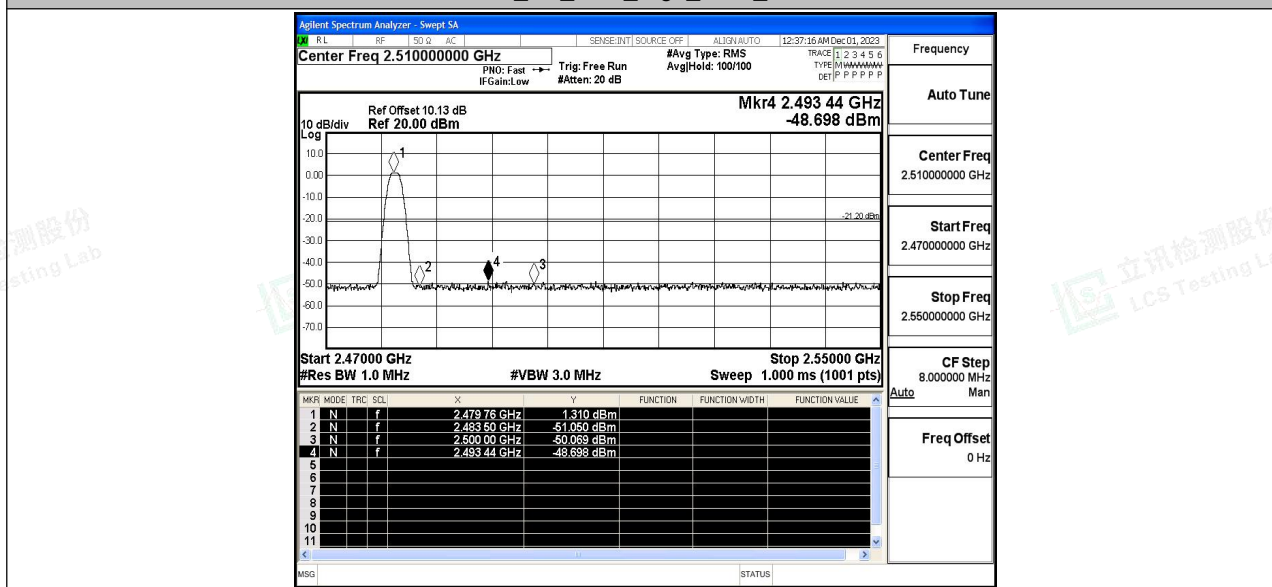
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BLE_1M_Ant1_High_2480_Peak



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