

Schaeffler Technologies AG & Co. KG
Georg-Schäfer-Straße 30 · 97421 Schweinfurt

To Whom it may concern

Efficiency and Gain

3/10/2025

Applicant: Schaeffler Technologies AG & Co. KG
Model number/name: OPTIME-LW-C4

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Antenna has been designed in house and the design is that of a typical dipole antenna.

Test Goal Measure the antenna efficiency and gain within the frequency range

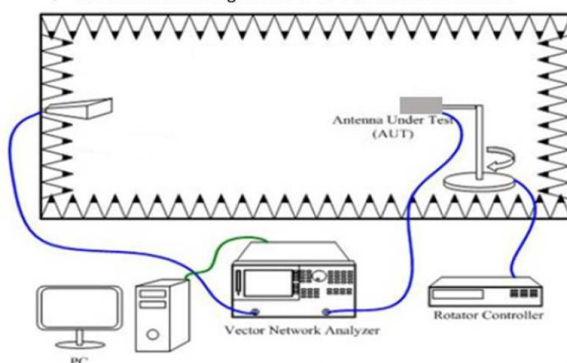
Criteria Efficiency $\geq 50\%$ / Peak gain $\geq 1.5\text{dBi}$ @ 2402 to 2480MHz

Test Equipment: OTA chamber

Test Data:

Frequency (MHz)	2402	2408	2414	2420	2426	2432	2438	2440	2444	2450	2456	2462	2468	2474	2480
Efficiency (%)	58.37	58.87	58.49	59.36	59.11	58.90	59.36	59.43	59.46	58.91	58.14	57.74	56.62	57.08	56.13
Peak Gain (dBi)	2.18	2.16	2.09	2.20	2.22	2.19	2.24	2.26	2.23	2.21	2.16	2.20	2.14	2.24	2.21

◆ The antenna is testing in the 7 x 4 x 4 m³ anechoic chamber



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