

Appendix E: Simultaneous Transmission Analysis

E.1. Introduction

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

Table E-1 - Supported Simultaneous Transmission Scenarios

#	Scenario	Body	Extremity
1	2.4 GHz Bluetooth LE + 24 GHz Radar	Yes	Yes

E.2. Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of Exposure Ratio for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1 .

E.3. Simultaneous Transmission Analysis

Table E-2 – Total Exposure Ratio (TER)

Certification	Sub6	Exposure	Sub6 Exposure Ratio	24 GHz Radar Exposure Ratio	TER
FCC	2.4 GHz Bluetooth LE	Body	0.027	0.334	0.361
FCC	2.4 GHz Bluetooth LE	Extremity	0.006	0.334	0.340
ISED	2.4 GHz Bluetooth LE	Body	0.027	0.112	0.139
ISED	2.4 GHz Bluetooth LE	Extremity	0.006	0.112	0.118

Please refer to report SN 2025.045.03 and 2025.045.04 for 24 GHz Radar Data

The above analysis of the simultaneous transmission scenarios is sufficient to show that simultaneous transmission cases will not exceed the SAR limit. Therefore, no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01 and IEEE 1528- 2013 Section 6.3.4.1.