Question ITU-R 242-2/5[[1]](#footnote-1)

**Reference radiation patterns of omnidirectional and sectoral antennas for the fixed and mobile services for use in sharing studies**

(1995-2000-2012-2015)

The ITU Radiocommunication Assembly,

*considering*

*a)* that determination of criteria for frequency sharing between point-to-multipoint systems in the fixed service and systems in other services or between systems in the land mobile service and systems in other services requires a knowledge of radiation patterns of omnidirectional and sectoral antennas along all possible interfering paths;

*b)* that the use of reference radiation patterns for omnidirectional and sectoral antennas would facilitate interference calculations;

*c)* that different reference radiation patterns may be required for the various types of antennas in use,

*decides* that the following Questions should be studied

1What are the measured radiation patterns in the vertical and horizontal planes for both polarizations of typical omnidirectional and sectoral antennas used in point-to-multipoint systems in the fixed service or land mobile systems?

2 What reference radiation patterns can be defined for use in sharing studies for the different types of antennas?

*further decides*

1that the results of the above studies should be included in one or more Recommendation(s) or Report(s);

2 that the above studies should be completed by 2027.

NOTE – See Recommendation ITU-R [F.1336](http://www.itu.int/rec/R-REC-F.1336/en).

Category: S2

1. In the year 2023, Radiocommunication Study Group 5 extended the completion date of studies for this Question. [↑](#footnote-ref-1)