Question itu-r 248/4

Frequency sharing between systems in the fixed-satellite service and
wireless digital networks around 5 GHz

(1997)

The ITU Radiocommunication Assembly,

considering

*a)* that, at present, feeder links between fixed earth stations and space station of any radiocommunication service may be provided in the frequency bands allocated to the fixed-satellite service (FSS);

*b)* that, in the interest of spectrum conservation, many frequency bands have been allocated on a shared basis to the FSS and terrestrial services;

*c)* that, systems in the FSS may share frequency bands with wireless digital networks in the range of frequencies around 5 GHz;

*d)* that systems in the FSS may suffer aggregate interference from a large number of widely deployed wireless data networks in the range of frequencies around 5 GHz;

*e)* that the technical characteristics of feeder links may be quite different from those of links entirely in the FSS;

*f)* that sharing with services where no coordination is possible may put special limitations on the extent of sharing,

decides that the following Questions should be studied

1 What are the factors that determine the maximum radiated power density that can be radiated towards space by the aggregate of wireless digital network devices?

2 What are the appropriate methods to determine the interference potential between wireless digital networks and fixed-satellite systems?

3 What criteria are appropriate for frequency sharing between systems in the FSS and wireless digital networks?

further decides

1 that the results of the above studies should be included in appropriate Recommendations and/or Reports;

2 that the above studies should be completed by 2027.

Category: S3