QUESTION ITU-R 102-4/6

Methodologies for subjective assessment of audio and video quality

(1999-2011-2014-2015-2019)

The ITU Radiocommunication Assembly,

considering

*a)* that it is highly desirable to have standard methods of measuring picture and sound quality in broadcasting, in a subjective way, permitting an appropriate comparison of the results obtained in different places;

*b)* that, while methods for the subjective assessments of the quality of pictures and sound have been established in a number of ITU-R Recommendations, new image and sound systems and technologies may require extensions to these methods;

*c)* that the perceptual interaction between the audio and visual modalities can affect their mutual qualities and the overall perceived quality;

*d)* that a wide range of broadcasting systems and audio-visual presentations in different viewing and listening environments needs to be supported by subjective assessment methods for audio and video quality,

decides that the following Questions should be studied

1 What are the quality attributes including small, medium and large impairments for audio and/or visual perception?

2 What are the subjective test methodologies[[1]](#footnote-1) required for different applications and quality levels for:

– visual presentation without associated audio presentation?

– visual presentation with associated audio presentation?

– audio presentation without associated visual presentation?

– audio presentation with associated visual presentation?

3 How could such methodologies be used as criteria to identify quality attributes that are important for different application areas of audio and/or visual presentation?

4 How could they be used to express quality requirements for audio and/or visual modalities for different application areas and to assess their optimization?

5 What methods and criteria are required to assess if the “Quality of Experience” expectations of the intended audience of advanced immersive audio-visual content, are being met?

6 How the context dependent quality balance between audio and visual presentation should be considered?

further decides

1 that the results of the above studies should be included in (a) Recommendation(s) and/or Report(s);

2 that the above studies should be completed by 2023.

Category: S2

1. This should include, for example, the harmonization of grading scales employed in audio and visual testing at present (refer to present ITU-R BS and BT, and ITU-T Recommendations), test environments, viewing and listening distances, training procedures, etc. [↑](#footnote-ref-1)