

## **FOREWORD**

This Malaysian Standard was prepared by the Technical Committee on Radio Interference under the authority of the Electronic Industry Standards Committee.

This Malaysian Standard specifies the characteristics and performance of the apparatus to be used in the measurement of radio-noise voltages and fields produced by electric equipment of all kinds. This type of apparatus is equally useful for measuring field strengths of radio signals in the frequency range covered.

The Malaysian Standard covers three types of measuring set, namely quasi-peak measuring set, peak measuring set and sine-wave measuring set.

The quasi-peak measuring set gives readings which are a measure of the annoyance caused to amplitude-modulated telephony by broadband impulsive interference. The correlation between measured values and subjective annoyance is less close for other forms of radio communication, but it is considered to be adequate for the assessment of the protection of many radio systems against interference, notably FM sound radio and television broadcasting. The quasi-peak set is, therefore adopted as the general-purpose standard apparatus for measuring radio interference with the upper frequency limit of 1000 MHz. The quasi-peak section is to be extended down to the frequency range 0.015 MHz to 0.15 MHz at a later stage.

For some specialised applications, in particular in the civil aeronautical and military fields, peak measurement may be preferred. To encourage the use of standardised measuring apparatus for these applications it has, therefore, been decided to include in this Standard the characteristics and performance for a peak measuring set covering the frequency range 0.015 MHz to 1000 MHz. The peak reading section of the Standard closely follows the quasi-peak section where applicable, although bandwidths have been changed to suit apparatus available.

The sine-wave section is based on current practice particularly in relation to the measurement of interference from industrial, scientific and medical (i s m) R F apparatus. This section indicates the extent to which specialised noise-measuring characteristics may be relaxed when measuring sine-wave interference and mentions the characteristics for which more stringent requirements may be necessary in some circumstances.

Auxiliary apparatus required for measuring radio noise voltages is described in Appendix E.

This Malaysian Standard is based mainly on the Recommendations of the International Special Committee on Radio Interference (CISPR) of the International Electrotechnical Commission and on the relevant British Standard.

SI units are used throughout.