

**Ketidakpastian pengukuran detektor bilik ionisasi dan detektor solid state pada kualitas radiasi RQR berdasarkan TRS no. 457 =
Measurement of uncertainty ionization chamber detector and solid state detector on radiation quality RQR based in TRS no. 457**

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Abstrak

Telah dilakukan ketidakpastian pengukuran pada detektor bilik ionisasi dan detektor Solid State. Metode yang dilakukan adalah dengan melakukan pengukuran HVL (Half Value Layer) dan pengukuran kalibrasi detektor pada berkas radiasi RQR, dimana melalui pengukuran dan hasil perhitungan diperoleh hasil ketidakpastian detektor farmer pada masing-masing tegangan 50 kV yaitu sebesar 7.40%, 60 kV sebesar 7.39%, 70 kV sebesar 7.52%, 80 kV sebesar 7.32%, 90 kV sebesar 7.89% dan 100 kV sebesar 7.40% dan ketidakpastian detektor unfors pada masing-masing tegangan 50 kV yaitu sebesar 12.26%, 60 kV sebesar 12.26%, 70 kV sebesar 12.31%, 80 kV sebesar 12.22%, 90 kV sebesar 12.54% dan 100 kV sebesar 12.24%.
.....The author had been do improbability measurement on ionization chamber detector and solid state detector. The method is measuring HVL (Half Value Layer) and detector calibration of radiation RQR on X-Ray instrument, which is through this measurement and result calculation get improbability results of farmer detector on every voltage is 50 kV is 7.40%, 60 kV is 7.39%, 70 kV is 7.52%, 80 kV is 7.32%, 90 kV is 7.89% and 100 kV is 7.40% and improbability unfors detector on every voltage is 50 kV is 12.26%, 60 kV is 12.26%, 70 kV is 12.31%, 80 kV is 12.22%, 90 kV is 12.54% and 100 kV is 12.24%.