

# ISO 14146:2024-07 (E)

## Radiological protection - Criteria and performance limits for the periodic evaluation of dosimetry services for external radiation

---

<b>Contents</b>		<b>Page</b>
Foreword.....		iv
<b>1</b>	<b>Scope.....</b>	<b>1</b>
<b>2</b>	<b>Normative references.....</b>	<b>2</b>
<b>3</b>	<b>Terms and definitions.....</b>	<b>2</b>
<b>4</b>	<b>Quantities measured.....</b>	<b>8</b>
<b>5</b>	<b>Frequency of evaluation.....</b>	<b>8</b>
<b>6</b>	<b>Test conditions.....</b>	<b>9</b>
6.1	Standard test conditions and special handling conditions.....	9
6.2	Radiation qualities.....	9
6.3	Dose range.....	10
6.4	Irradiation of dosimeters.....	11
<b>7</b>	<b>Performance limits.....</b>	<b>11</b>
7.1	Limits to the response.....	11
7.1.1	General requirements.....	11
7.1.2	Requirements at reference conditions.....	12
7.2	Approval criterion.....	12
<b>8</b>	<b>Operational procedures.....</b>	<b>12</b>
8.1	Evaluation sample size.....	12
8.2	Evaluation procedure.....	13
8.3	Evaluation sequence.....	13
<b>9</b>	<b>Test report.....</b>	<b>14</b>
<b>Annex A (normative) Reference conditions and standard test conditions.....</b>		<b>15</b>
<b>Annex B (informative) Graphical illustrations of the performance limits.....</b>		<b>17</b>
<b>Bibliography.....</b>		<b>19</b>