

Certificate of Participation

for the EURADOS Intercomparison 2014 for whole body dosimeters (IC2014ph)

Certificate Number:	EURADOS-2014-S1 for system S001/2014
Number of pages:	4
Date of Issue:	December 21 st , 2014
Participating Institute:	DOZIMED S.R.L., Romania
Dosimetry System:	Panasonic TLD UD-716AGL readers, UD-802AT dosimeters, Accreditation number of the dosimetric system: ODA1065/2013 (provided by Romanian Nuclear Regulatory Body - C.N.C.A.N.)
Reporting number:	91 (this anonymous number will be used in further publications)
Intercomparison procedure:	<p>The EURADOS Intercomparison 2014 for whole body dosimeters was managed and coordinated on behalf of EURADOS by the WG2 Intercomparison Organization Group (OG). The OG established the irradiation plan and announced the intercomparison, including the range limits of the doses and radiation qualities, in February 2014.</p> <p>Participants were asked to indicate details of the dosimeter reference point on the online application form. After completing application procedures the participants sent their dosimeters, according to the instructions, to the OG coordinator (April 2014). The coordinator checked the correct labelling of the dosimeters and transferred all dosimeters, along with the instructions, to the irradiation laboratory. The laboratory irradiated the dosimeters according to the irradiation plan and sent all the dosimeters back to the coordinator (June 2014).</p> <p>The Coordinator then returned the dosimeters to the participants for assessment and indicated which dosimeters were not irradiated. The participants were instructed to follow normal routine procedures as far as possible. The participants then sent the results of the dosimeter readings to the coordinator (August 2014). After receipt of the participants' results, the coordinator sent the irradiation data to the participants.</p>
Number of participants:	96 institutes participated in IC2014ph with a total of 112 systems.
Coordinator:	H. Stadtmann, Ch. Gärtner (Seibersdorf Labor GmbH, A-2444 Seibersdorf)
Intercomparison results:	See the table on pages 2 to 4 of this certificate.
Irradiation data:	See the attached certificate of the irradiation laboratory No: LD-P001-1/14.
Participant results:	See the attached signed dose report provided by the participant.

On behalf of the intercomparison
Organization Group:

Hannes Stadtmann
Coordinator

On behalf of EURADOS:

Werner Rühm
Chairperson

Whole body dosimeter intercomparison IC2014ph

Result of the Intercomparison (Dosimetry System S001/2014):

EURADOS Dosemeter ID	Participant's Dosemeter ID	Radiation Quality	Quantity	Participant's Value	Reference Value	Ratio
S001/2014-13	508280	S-Cs, 0°	$H_p(10)$	0.92 mSv	0.91 mSv	1.01
			$H_p(0.07)$	–	–	–
S001/2014-16	508286	S-Cs, 0°	$H_p(10)$	0.95 mSv	0.91 mSv	1.04
			$H_p(0.07)$	–	–	–
S001/2014-09	508272	S-Cs, 0°	$H_p(10)$	7.53 mSv	7.10 mSv	1.06
			$H_p(0.07)$	–	–	–
S001/2014-22	509162	S-Cs, 0°	$H_p(10)$	7.38 mSv	7.10 mSv	1.04
			$H_p(0.07)$	–	–	–
S001/2014-27	509196	S-Cs, 0°	$H_p(10)$	7.57 mSv	7.10 mSv	1.07
			$H_p(0.07)$	–	–	–
S001/2014-29	509198	S-Cs, 0°	$H_p(10)$	7.54 mSv	7.10 mSv	1.06
			$H_p(0.07)$	–	–	–
S001/2014-17	508290	S-Co, 0°	$H_p(10)$	7.56 mSv	7.91 mSv	0.96
			$H_p(0.07)$	–	–	–
S001/2014-19	508292	S-Co, 0°	$H_p(10)$	7.64 mSv	7.91 mSv	0.97
			$H_p(0.07)$	–	–	–
S001/2014-21	509156	S-Co, 0°	$H_p(10)$	72.18 mSv	71.0 mSv	1.02
			$H_p(0.07)$	–	–	–
S001/2014-24	509164	S-Co, 0°	$H_p(10)$	74.71 mSv	71.0 mSv	1.05
			$H_p(0.07)$	–	–	–

Radiation Qualities and average photon energy (according to ISO 4037-1 and IEC 61267):

- Nuclide Radiation:
 - S-Cs: 662 keV
 - S-Co: 1250 keV
- X-Rays:
 - RQR7: 47 keV
 - W-80: 57 keV
 - W-150: 104 keV

Whole body dosimeter intercomparison IC2014ph

Result of the Intercomparison (Dosimetry System S001/2014, continued):

EURADOS Dosemeter ID	Participant's Dosemeter ID	Radiation Quality	Quantity	Participant's Value	Reference Value	Ratio
S001/2014-26	509193	S-Co, 0°	$H_p(10)$	433.00 mSv	413 mSv	1.05
			$H_p(0.07)$	–	–	–
S001/2014-28	509197	S-Co, 0°	$H_p(10)$	452.69 mSv	413 mSv	1.10
			$H_p(0.07)$	–	–	–
S001/2014-03	508259	RQR7, 0°	$H_p(10)$	9.46 mSv	7.76 mSv	1.22
			$H_p(0.07)$	–	–	–
S001/2014-10	508275	RQR7, 0°	$H_p(10)$	9.26 mSv	7.76 mSv	1.19
			$H_p(0.07)$	–	–	–
S001/2014-06	508264	W-80, 0°	$H_p(10)$	8.32 mSv	7.58 mSv	1.10
			$H_p(0.07)$	–	–	–
S001/2014-18	508291	W-80, 0°	$H_p(10)$	8.58 mSv	7.58 mSv	1.13
			$H_p(0.07)$	–	–	–
S001/2014-12	508279	W-80, +60°	$H_p(10)$	9.50 mSv	7.31 mSv	1.30
			$H_p(0.07)$	–	–	–
S001/2014-30	509200	W-80, -60°	$H_p(10)$	8.93 mSv	7.31 mSv	1.22
			$H_p(0.07)$	–	–	–
S001/2014-14	508283	W-150, 0°	$H_p(10)$	7.65 mSv	7.42 mSv	1.03
			$H_p(0.07)$	–	–	–
S001/2014-23	509163	W-150, 0°	$H_p(10)$	7.25 mSv	7.42 mSv	0.98
			$H_p(0.07)$	–	–	–

Radiation Qualities and average photon energy (according to ISO 4037-1 and IEC 61267):

- Nuclide Radiation:
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 - S-Co: 1250 keV
- X-Rays:
 - RQR7: 47 keV
 - W-80: 57 keV
 - W-150: 104 keV

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Result of the Intercomparison (Dosimetry System S001/2014, continued):

EURADOS Dosemeter ID	Participant's Dosemeter ID	Radiation Quality
S001/2014-01	508256	not irradiated
S001/2014-02	508257	not irradiated
S001/2014-04	508261	not irradiated
S001/2014-05	508263	not irradiated
S001/2014-07	508267	not irradiated
S001/2014-08	508271	not irradiated
S001/2014-11	508277	not irradiated
S001/2014-15	508284	not irradiated
S001/2014-20	509154	not irradiated
S001/2014-25	509189	not irradiated