



Certificate Number:
1143031PW



Date of Issue:
24 October 2011

Page 1 of 1 pages

HSE ADS WHOLE BODY PERFORMANCE TEST REPORT

Issued By: Nuvia Limited - A56 Winfrith, DT2 8WQ Tel: 01305 755221 www.rpiservices.co.uk

Dosimetry Service (ADS) Landauer Europe
Contact: Dr Chris Perks
Job Reference: JR(W)1835

Post Code: OX5 1JE
Dosemeter Type: Body - Luxel+

Receipt of Dosimeters: 24 May 2011
Dispatch of Dosimeters: 26 May 2011

Date of Irradiation: 25 May 2011
Date of Receipt of ADS Readings:

Results					
Applied Dose mSv PDE	Dosemeter ID	ADS Reading mSv	Ratio	Bias %	Relative standard deviation %
0.92	1529755	0.95	1.030	-1.57	4.14
	1529756	0.89	0.966		
	1529764	0.92	1.001		
	1529766	0.92	1.000		
	1529768	0.85	0.924		
3	1529746	3.00	1.001	-2.83	3.07
	1529750	2.90	0.968		
	1529751	2.91	0.970		
	1529760	2.78	0.925		
	1529763	2.98	0.994		
8	1529757	8.17	1.021	-2.35	3.00
	1529758	7.82	0.977		
	1529761	7.66	0.957		
	1529767	7.56	0.945		
	1529769	7.86	0.983		
22	1529749	22.50	1.023	-0.62	3.41
	1529752	20.91	0.951		
	1529762	21.55	0.980		
	1529765	22.74	1.033		
	1529770	21.63	0.983		
193	1529747	191.78	0.994	-2.08	3.13
	1529748	195.99	1.016		
	1529753	186.21	0.965		
	1529754	190.48	0.987		
	1529759	180.44	0.935		

Overall mean bias -1.89%

Overall relative standard deviation 3.18%

Performance Test Result **PASS - Band A**

Signature of Qualified Person

Andrew Galpin IEng MIET

Notes:

- Air kerma rates are derived from measurements made by a dosimeter calibrated at the NPL.
- The uncertainty in air kerma rate is +/- 3%, and is for a confidence probability of not less than 95%.
- A factor of 1.12 mSv per mGy is used to convert air kerma values to personal dose equivalents. This factor is derived from data published by UKAS and the NRPB.
- The dosimeters are irradiated in free air mounted on an expanded polystyrene board, using a collimated Cs-137

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