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# HSE ADS EXTREMITY PERFORMANCE TEST REPORT

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

Dosimetry Service (ADS): Landauer Europe

Post Code: SW 3 6JJ

Contact: Dr Chris Perks

Dosemeter Type: Extremity Rings U TLD

Job Reference: JR(W)2145

Receipt of Dosimeters: 19 April 2012

Date of Irradiation: 30 April 2012

Dispatch of Dosimeters: 03 May 2012

Date of Receipt of ADS Readings: 08 June 2012

## Results

Applied Dose mSv PDE	Dosemeter ID	ADS Reading mSv	Ratio	Bias %	Relative standard deviation %
4.40	90013	4.50	1.023	4.05	3.74
	90017	4.40	1.000		
	90037	4.79	1.089		
	90039	4.47	1.016		
	90047	4.73	1.075		
7.00	90016	6.77	0.967	3.40	4.43
	90036	7.12	1.017		
	90046	7.64	1.091		
	90048	7.32	1.046		
	90049	7.34	1.049		
38.20	90011	39.74	1.040	0.01	4.51
	90014	40.18	1.052		
	90015	37.18	0.973		
	90043	37.81	0.990		
	90044	36.10	0.945		
194.00	90009	192.87	0.994	-1.69	5.89
	90012	199.09	1.026		
	90038	197.24	1.017		
	90040	193.24	0.996		
	90050	171.18	0.882		

Overall mean bias 1.44%

Overall relative standard deviation 4.92%

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 behind a sheet of 3 mm thick perspex, using a collimated Cs-137 source.

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