

Amendment to SAR Compliance Test Report

Test report no.:	Salo_SAR0403_01_Amendment.	Date of report:	2004-03-29
Template version:	2	Number of pages:	60
Testing laboratory:	TCC Salo, P.O. Box 86 Joensuukatu 7E / Kiila 1B FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 45220	Client:	Nokia Corporation P.O. Box 12 Mattiilanniemi 6 FIN-40101 Jyväskylä, FINLAND Tel. +358 (0) 7180 080112200 Fax. +358 (0) 7180 78000
Responsible test engineer:	Virpi Tuominen	Product contact person:	Mikael Honkanen
Measurements made by:	Virpi Tuominen		
Tested device:	NHL-12		
FCC ID (USA):	QURNHL-12	Industry Canada ID:	661AC-NHL12
Supplement reports:	-		
Testing has been carried out in accordance with:	47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01) Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields RSS-102 Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields IEEE P1528/D1.2, April 21, 2003 Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC Salo.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:	2004-03-29		
For the contents:			


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1. SUMMARY OF SAR TEST REPORT

In upper table ERP of the DUT in channel 128 (GPRS850) is 30.48 dBm. Correct ERP for channel 128 is 29.78 dBm. In the second table of this page information is corrected.

1.1.1 Body Worn Configuration

Mode	Ch / f (MHz)	ERP / EIRP	Separation distance	SAR limit (1g avg)	Measured SAR value (1g avg)	Result
GPRS 850 1-slot TX	128 / 824	30.48 dBm	1.5 cm	1.6 W/kg	0.60 W/kg	PASSED
GPRS 1900 2-slot TX	512 / 1850	29.09 dBm	1.5 cm	1.6 W/kg	1.22 W/kg	PASSED

Corrected Table 1.1.1:

Mode	Ch / f (MHz)	ERP / EIRP	Separation distance	SAR limit (1g avg)	Measured SAR value (1g avg)	Result
GPRS 850 1-slot TX	128 / 824	29.78 dBm	1.5 cm	1.6 W/kg	0.60 W/kg	PASSED
GPRS 1900 2-slot TX	512 / 1850	29.09 dBm	1.5 cm	1.6 W/kg	1.22 W/kg	PASSED

7. Results (Head SAR Results)

In upper table ERP of the DUT in channel 128 (GPRS850) is 30.48 dBm and in channel 251 it is 29.63 dBm. Correct ERP results for channels 128 and 251 are 29.78 dBm and 30.33 dBm respectively. In the second table information is corrected.

800MHz Head SAR results

Mode and Band	MMC-card option	Position		SAR, averaged over 1g (W/kg)		
				Ch 128 824 MHz	Ch 190 836 MHz	Ch 251 849 MHz
GSM 850	Not used	Power level (ERP)		30.48 dBm	30.77 dBm	29.63 dBm
		Left	Cheek	0.794	1.03	1.01
			Tilt	-	0.713	-
		Right	Cheek	0.736	0.992	1.01
			Tilt	-	0.717	-
	With MMC	Left	Cheek	0.788	1.05	1.02
			Tilt	-	-	-
		Right	Cheek	-	1.01	0.985
			Tilt	-	-	-
	With MMC	Left Cheek, BT active		-	1.06	-

Corrected Table:

800MHz Head SAR results

Mode and Band	MMC-card option	Position		SAR, averaged over 1g (W/kg)		
				Ch 128 824 MHz	Ch 190 836 MHz	Ch 251 849 MHz
GSM 850	Not used	Power level (ERP)		29.78 dBm	30.77 dBm	30.33 dBm
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	With MMC	Left Cheek, BT active		-	1.06	-

7. Results (Body SAR Results)

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800MHz Body SAR results

Mode and Band	MMC-card option	Body-worn location setup	SAR, averaged over 1g (W/kg)		
			Ch 128 824 MHz	Ch 190 836 MHz	Ch 251 849 MHz
GPRS 850 1-slot TX	Not used	Power level (ERP)	30.48 dBm	30.77 dBm	29.63 dBm
		Headset HS-5	0.580	0.572	0.491
		Headset HDS-3	0.570	0.546	0.486
	With MMC	Headset HS-5	0.604	0.573	0.558
	With MMC	Headset HS-5 BT active	0.592	-	-

Corrected Table:

800MHz Body SAR results

Mode and Band	MMC-card option	Body-worn location setup	SAR, averaged over 1g (W/kg)		
			Ch 128 824 MHz	Ch 190 836 MHz	Ch 251 849 MHz
GPRS 850 1-slot TX	Not used	Power level (ERP)	29.78 dBm	30.77 dBm	30.33 dBm
		Headset HS-5	0.580	0.572	0.491
		Headset HDS-3	0.570	0.546	0.486
	With MMC	Headset HS-5	0.604	0.573	0.558
	With MMC	Headset HS-5 BT active	0.592	-	-