



2013-09-26

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11

IC: 661V-B

# **Test Setup photos for RM-938 SAR Compliance Test Report**

Date of report:

Client:

**Number of pages:** 

Test report no.: **Template version: Testing laboratory:** 

19.3

TCC Nokia Salo Laboratory

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**CETECOM IST Service** 

Responsible test engineer:

Measurements made by:

**Tested device:** 

FCC ID:

**Supplement reports:** 

Testing has been carried out in accordance with:

SAR Photo RM-938 04

P.O.Box 86

Joensuunkatu 7H / Kiila 1B

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RM-938, RM-940

**PYAB** 

FCC\_RM-938\_01

47CFR §2.1093

Radiofrequency Radiation Exposure Evaluation: Portable Devices

FCC published RF exposure KDB procedures

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 1528 - 2003

IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices:

Measurement Technique

**Documentation:** The documentation of the testing performed on the tested devices is archived for 15 years at

TCC Nokia.

**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:** 

For the contents:





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## 1. SUMMARY OF SAR TEST REPORT

## 1.1 Test Details

Period of test	2013-07-17 to 2013-09-17
SN, HW and SW numbers of	SN: 004402/47/342576/1, HW: 2100, SW: 1028.0301.1326.22195, DUT: 17575
tested device	SN: 004402/47/342571/2, HW: 2100, SW: 1028.0301.1326.22195, DUT: 17576
	SN: 004402/47/342581/1, HW: 2100, SW: 1028.0301.1326.22195, DUT: 17577
	SN: 004402/47/342574/6, HW: 2100, SW: 1028.0301.1326.22195, DUT: 17578
	SN: 004402/47/342579/5, HW: 2100, SW: 1028.0305.1328.10122, DUT: 17600
	SN: 004402/47/342578/7, HW: 2100, SW: 1028.0305.1328.10122, DUT: 17601
	SN: 004402/47/342580/3, HW: 2100, SW: 1028.0301.1326.22195, DUT: 17602
	SN: 004402/47/342572/0, HW: 2100, SW: 1028.0301.1326.22195, DUT: 17603
	SN: 004402/47/497037/7, HW: 2200, SW: 1028.3500.1332.2000, DUT: 17644
	SN: 004402/47/497033/6, HW: 2200, SW: 1028.3500.1332.2000, DUT: 17645
	SN: 004402/47/497032/8, HW: 2200, SW: 1028.3500.1332.2000, DUT: 17646
	SN: 004402/47/497038/5, HW: 2200, SW: 1028.3500.1332.2000, DUT: 17660
	SN: 004402/47/497030/2, HW: 2200, SW: 1028.3507.1335.0000, DUT: 17663
Batteries used in testing	-
Headsets used in testing	WH-208; DUT: 17573, 17574
Other accessories used in	-
testing	
State of sample	Prototype unit
Notes	-

## 1.2 Picture of the Device







#### 2. TEST POSITIONS

### 2.1 Against Phantom Head

Measurements were made in "cheek" position on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2003 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".





Photo of the Device in "cheek" position

Photo of the Device in "tilt" position

### 2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the Nokia spacer and placed below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance indicated in the photo below using a separate flat spacer that was removed before the start of the measurements.







Photo of the device positioned for Body SAR measurement.

The spacer was removed for the tests.

Nokia body-worn accessories are commonly available for the separation distance used in this testing.

### 2.3 Wireless Router Configuration

The device was placed in the SPEAG holder using the Nokia spacer and, in sequence, the back, display and each of the 4 edges was positioned 10.0mm away from the flat phantom. The spacer was removed before the start of the measurements.



Photo of the device positioned for WR mode measurement –back facing phantom. The spacer was removed before the start of the measurements.







Photo of the device positioned for WR mode measurement – display facing phantom. The spacer was removed before the start of the measurements.



Photo of the device positioned for WR mode measurement – top edge facing phantom. The spacer was removed before the start of the measurements.





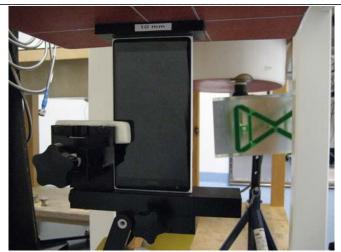


Photo of the device positioned for WR mode measurement – bottom edge facing phantom. The spacer was removed before the start of the measurements.







Photo of the device positioned for WR mode measurement – left edge facing phantom.

The spacer was removed before the start of the measurements.



Photo of the device positioned for WR mode measurement – right edge facing phantom. The spacer was removed before the start of the measurements.





## 2.4 10g Extremity SAR

The device was placed in the SPEAG holder and, in sequence, the back, display and each of the 4 edges was positioned 0.0mm away from the flat phantom.

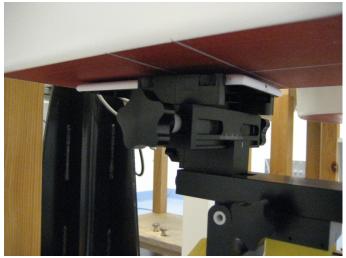


Photo of the device positioned for 10g Extremity measurement –back facing phantom.



Photo of the device positioned for 10g Extremity measurement –display facing phantom.







Photo of the device positioned for 10g Extremity measurement – top edge facing phantom.

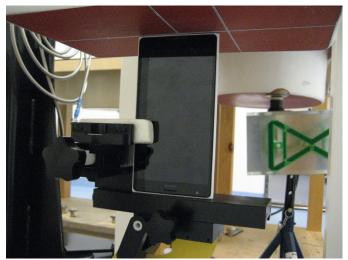


Photo of the device positioned for 10g Extremity measurement – bottom edge facing phantom.





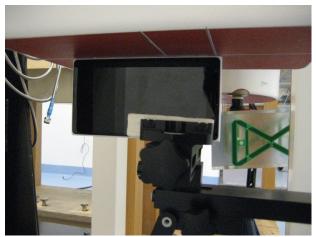


Photo of the device positioned for 10g Extremity measurement – left edge facing phantom.

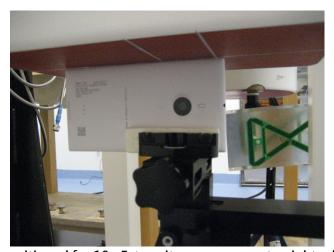


Photo of the device positioned for 10g Extremity measurement – right edge facing phantom.