Partial FCC RF Test Report

APPLICANT	:	Nokia Corporation
EQUIPMENT	:	Internet Stick
BRAND NAME	:	Nokia
MODEL NAME	:	CS-11
TYPE DESIGNATION	:	RD-15
MARKETING NAME	:	Nokia Internet Stick CS-11
FCC ID	:	PYARD-15
STANDARD	:	FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
Tx/Rx FREQUENCY RANGE	:	GSM850 : 824.2 ~ 848.8 MHz / 869.2 ~ 893.8 MHz GSM1900 : 1850.2 ~ 1909.8 MHz / 1930.2 ~ 1989.8 MHz WCDMA Band V : 826.4 ~ 846.6 MHz / 871.4 ~ 891.6 MHz WCDMA Band II : 1852.4 ~ 1907.6 MHz / 1932.4 ~ 1987.6 MHz

This is a partial report, and includes the conducted power measurement only. The product was received on Mar. 03, 2010 and completely tested on Mar. 08, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Roy Wu

Roy Wu / Manager

Testing Laboratory
1190

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG030309A	Rev. 01	Initial issue of report	Mar. 10, 2010
FG030309A	Rev. 02	Add IMEI Code	Mar. 16, 2010

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-

1 General Description

1.1 Applicant

Nokia Corporation
Keilalahdentie 2-4
02150 ESPOO
FINLAND

1.2 Manufacturer

Nokia Corporation
Keilalahdentie 2-4
02150 ESPOO
FINLAND

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Internet Stick
Brand Name	Nokia
Model Name	CS-11
Type Designation	RD-15
Marketing Name	Nokia Internet Stick CS-11
FCC ID	PYARD-15
IMEI Code	004402130193968
Tx Frequency	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz WCDMA Band V : 824 MHz ~ 849 MHz WCDMA Band II : 1850 MHz ~ 1910 MHz
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz WCDMA Band V : 869 MHz ~ 894 MHz WCDMA Band II : 1930 MHz ~ 1990 MHz
Maximum Output Power to Antenna	GSM850 : 29.51 dBm GSM1900 : 26.04 dBm WCDMA Band V : 21.12 dBm WCDMA Band II : 21.11 dBm
Antenna Type	Fixed Internal Antenna
HW Version	1.7
ME Version	1.0
Type of Modulation	GSM / GPRS : GMSK EDGE : 8PSK WCDMA : QPSK HSDPA : QPSK / 16QAM HSUPA : BPSK
EUT Stage	Production Unit

Remark:

1. This test report recorded only product characteristics and test results of PCS Licensed Transmitter (PCB).

2. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.

2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Only the conducted output power measurement on this EUT was performed in this report.

Test Modes	
Band	**Conducted Output Power Measurement**
GSM 850	■ GPRS ■ EDGE
GSM 1900	■ GPRS ■ EDGE
WCDMA Band V	■ WCDMA ■ HSDPA ■ HSUPA
WCDMA Band II	■ WCDMA ■ HSDPA ■ HSUPA

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

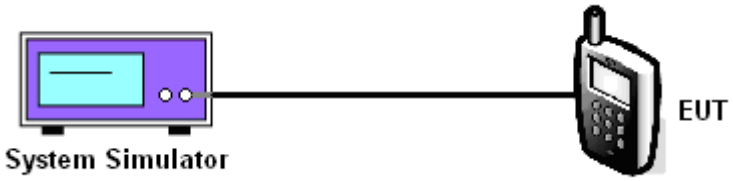
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Cellular Band				
Modes	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Conducted Power (Watts)**
GSM850 (GPRS 8)	128 (Low)	824.2	29.43	0.877
	189 (Mid)	836.4	29.43	0.877
	251 (High)	848.8	29.51	0.893
GSM850 (GPRS 10)	128 (Low)	824.2	26.43	0.440
	189 (Mid)	836.4	26.44	0.441
	251 (High)	848.8	26.48	0.445
GSM850 (GPRS 12)	128 (Low)	824.2	23.83	0.242
	189 (Mid)	836.4	23.86	0.243
	251 (High)	848.8	23.82	0.241
GSM850 (EDGE 8)	128 (Low)	824.2	26.60	0.457
	189 (Mid)	836.4	26.56	0.453
	251 (High)	848.8	26.65	0.462
GSM850 (EDGE 10)	128 (Low)	824.2	24.38	0.274
	189 (Mid)	836.4	24.42	0.277
	251 (High)	848.8	24.40	0.275
GSM850 (EDGE 12)	128 (Low)	824.2	21.26	0.134
	189 (Mid)	836.4	21.30	0.135
	251 (High)	848.8	21.30	0.135

Cellular Band				
Modes	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Conducted Power (Watts)**
WCDMA Band V (RMC 12.2K)	4132 (Low)	826.4	21.12	0.129
	4182 (Mid)	836.4	20.96	0.125
	4233 (High)	846.6	21.07	0.128
WCDMA Band V (HSDPA Subtest-1)	4132 (Low)	826.4	20.92	0.124
	4182 (Mid)	836.4	20.93	0.124
	4233 (High)	846.6	21.06	0.128
WCDMA Band V (HSDPA Subtest-2)	4132 (Low)	826.4	21.03	0.127
	4182 (Mid)	836.4	20.92	0.124
	4233 (High)	846.6	20.95	0.124
WCDMA Band V (HSDPA Subtest-3)	4132 (Low)	826.4	20.55	0.114
	4182 (Mid)	836.4	20.46	0.111
	4233 (High)	846.6	20.50	0.112
WCDMA Band V (HSDPA Subtest-4)	4132 (Low)	826.4	20.36	0.109
	4182 (Mid)	836.4	20.33	0.108
	4233 (High)	846.6	20.40	0.110
WCDMA Band V (HSUPA Subtest-1)	4132 (Low)	826.4	18.57	0.072
	4182 (Mid)	836.4	18.41	0.069
	4233 (High)	846.6	18.54	0.071
WCDMA Band V (HSUPA Subtest-2)	4132 (Low)	826.4	18.87	0.077
	4182 (Mid)	836.4	18.94	0.078
	4233 (High)	846.6	18.87	0.077
WCDMA Band V (HSUPA Subtest-3)	4132 (Low)	826.4	19.78	0.095
	4182 (Mid)	836.4	19.81	0.096
	4233 (High)	846.6	19.74	0.094
WCDMA Band V (HSUPA Subtest-4)	4132 (Low)	826.4	18.83	0.076
	4182 (Mid)	836.4	18.70	0.074
	4233 (High)	846.6	18.87	0.077
WCDMA Band V (HSUPA Subtest-5)	4132 (Low)	826.4	19.33	0.086
	4182 (Mid)	836.4	19.43	0.088
	4233 (High)	846.6	19.64	0.092

PCS Band				
Modes	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Conducted Power (Watts)**
GSM1900 (GPRS 8)	512 (Low)	1850.2	26.00	0.398
	661 (Mid)	1880.0	25.94	0.393
	810 (High)	1909.8	26.04	0.402
GSM1900 (GPRS 10)	512 (Low)	1850.2	23.55	0.226
	661 (Mid)	1880.0	23.44	0.221
	810 (High)	1909.8	23.61	0.230
GSM1900 (GPRS 12)	512 (Low)	1850.2	20.70	0.117
	661 (Mid)	1880.0	20.66	0.116
	810 (High)	1909.8	20.77	0.119
GSM1900 (EDGE 8)	512 (Low)	1850.2	25.58	0.361
	661 (Mid)	1880.0	25.56	0.360
	810 (High)	1909.8	25.64	0.366
GSM1900 (EDGE 10)	512 (Low)	1850.2	23.03	0.201
	661 (Mid)	1880.0	23.04	0.201
	810 (High)	1909.8	23.04	0.201
GSM1900 (EDGE 12)	512 (Low)	1850.2	19.93	0.098
	661 (Mid)	1880.0	19.81	0.096
	810 (High)	1909.8	19.81	0.096

PCS Band				
Modes	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Conducted Power (Watts)**
WCDMA Band II (RMC 12.2K)	9262 (Low)	1852.4	21.05	0.127
	9400 (Mid)	1880.0	21.11	0.129
	9538 (High)	1907.6	20.87	0.122
WCDMA Band II (HSDPA Subtest-1)	9262 (Low)	1852.4	21.00	0.126
	9400 (Mid)	1880.0	20.88	0.122
	9538 (High)	1907.6	20.80	0.120
WCDMA Band II (HSDPA Subtest-2)	9262 (Low)	1852.4	20.94	0.124
	9400 (Mid)	1880.0	20.91	0.123
	9538 (High)	1907.6	20.96	0.125
WCDMA Band II (HSDPA Subtest-3)	9262 (Low)	1852.4	20.42	0.110
	9400 (Mid)	1880.0	20.40	0.110
	9538 (High)	1907.6	20.42	0.110
WCDMA Band II (HSDPA Subtest-4)	9262 (Low)	1852.4	20.30	0.107
	9400 (Mid)	1880.0	20.31	0.107
	9538 (High)	1907.6	20.29	0.107
WCDMA Band II (HSUPA Subtest-1)	9262 (Low)	1852.4	18.42	0.070
	9400 (Mid)	1880.0	18.61	0.073
	9538 (High)	1907.6	18.51	0.071
WCDMA Band II (HSUPA Subtest-2)	9262 (Low)	1852.4	18.60	0.072
	9400 (Mid)	1880.0	18.82	0.076
	9538 (High)	1907.6	18.73	0.075
WCDMA Band II (HSUPA Subtest-3)	9262 (Low)	1852.4	19.27	0.085
	9400 (Mid)	1880.0	19.49	0.089
	9538 (High)	1907.6	19.58	0.091
WCDMA Band II (HSUPA Subtest-4)	9262 (Low)	1852.4	18.56	0.072
	9400 (Mid)	1880.0	18.81	0.076
	9538 (High)	1907.6	18.87	0.077
WCDMA Band II (HSUPA Subtest-5)	9262 (Low)	1852.4	19.48	0.089
	9400 (Mid)	1880.0	19.19	0.083
	9538 (High)	1907.6	19.34	0.086

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
System Simulator	R&S	CMU200	116456	N/A	Jun. 05, 2008	Jun. 04, 2010	Conducted (TH02-HY)

5 Certification of TAF Accreditation

Certificate No. : L1190-100107

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	:	ISO/IEC 17025:2005
Accreditation Number	:	1190
Originally Accredited	:	December 15, 2003
Effective Period	:	January 10, 2010 to January 09, 2013
Accredited Scope	:	Testing Field, see described in the Appendix
Specific Accreditation Program	:	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangment with Foreign Authorities

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 07, 2010

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix