TCC

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Certificate Number: 1819-01

1 (17)

Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-25 Test Report #: 03-EM-0278.005 4 December 2003

Ver 1.0

## CFR 47 Part 2, 22, and 24 Test Report

Test Report Number: 03-EM-0278.005

**Terminal device:** 

FCC ID: GMLRH-25, Model 6560, HW: 5000f, SW: 0.30 (Detailed information is listed in section 4).

Mark Severson
TCC - Dallas - EMC
1.0, Approved
TCC Directories
4 December 2003

## **Change History:**

Version 0.1 21-Nov 03 1-Dec 03 0.2 1.0 4-Dec-03

Date Status Draft Approved

Handled By Mark Severson Reviewed M.Mobley / N.Walton A. Ewing

Comments

Testing laboratory:	Test & Certification Center (TCC) Dallas	Client:	Nokia Mobile Phones
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#### Date and signatures:

For the contents:

Nerina Walton, EMC Engineer **Technical Review** 

4 December 2003

Alan C. Ewing, General Manager Manager Review

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## 1. GENERAL

## 1.1 Quality System

The quality system in place for TCC-Dallas conforms to ISO/IEC 17025 and has been audited to the standard by A2LA (American Association of Laboratory Accreditation). TCC - Dallas has also been audited using the ISO 9000 Quality System, as part of Nokia Mobile Phones, Inc., by ABS (American Bureau of Shipping) Quality Evaluations Inc.

TCC-Dallas is a recognized laboratory with the Federal Communications Commission in filing applications for Certification under Parts 15 and 18, Registration Number 100060, and Industry Canada, Registration Number IC 661.

## **1.2 List of General Information Required for Certification**

This list is in accordance with FCC Rules and Regulations, CFR 47, Part 2, and to 22H, 24E, Confidentiality.

#### 1.2.1 Sub-part 2.1033(c)(1)

Name and Address of Applicant:	Nokia Mobile Phones 6021 Connection Drive Irving, Texas, 75039, USA
<u>Manufacturer</u> :	Nokia Brazil Manaus AM Rod. Torquato Tapajós, 7200 KM 12 - Tarumã Postal code: 69048-660 Manaus, Amazonas, Brazil
	Nokia Mexico, S.A. DE C.V. Ave. Ind. Rio Bravo s/n, Parque Ind. del Nte. Cd. Reynosa, Tam. CP, 88730

#### 1.2.2 Sub-part 2.1033(c)(2)

FCC ID: FCC ID: GMLRH-25

Model No: Model 6560

1.2.3 Sub-part 2.1033(c)(3)

Instruction Manual(s): Refer to attached EXHIBITS

1.2.4 Sub-part 2.1033(c)(4)

Type of Emission: 40K0F1D, 40K0F8W, 30K0DXW

1.2.5 Sub-part 2.1033(c)(5)

Frequency Range, MHz: 824.04 to 848.97 1850.04 to 1909.92

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1.2.6 Sub-part 2.1033(c)(6)

Power Rating, Watts:

0.200 EDRP AMPS 0.479 EDRP Cellular Band - TDMA 0.794 EIRP PCS - TDMA

Switchable Variable N/A

FCC Grant Note: BC- The output power is continuously variable from the value listed in this entry to 5%-10% of the value listed.

1.2.7 Sub-part 2.1033(c)(7)

Maximum Power Rating, Watts: 0.794 W

1.2.8 Sub-part 2.1033(c)(8)

<u>Voltages & Currents in all elements in final R.F. Stage, including final transistor or solid-state device:</u> Collector Current, A = 200mA Collector Voltage, Vdc = 3.7 Supply Voltage, Vdc = 3.7

1.2.9 Sub-part 2.1033(c)(9)

Tune-up Procedure: Refer to attached EXHIBITS

1.2.10 Sub-part 2.1033(c)(10)

#### Circuit Diagram/Circuit Description:

Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power. Refer to attached EXHIBITS

1.2.11 Sub-part 2.1033(c)(11)

Label Information: Refer to attached EXHIBITS

1.2.12 Sub-part 2.1033(c)(12)

Photographs: Refer to attached EXHIBITS

1.2.13 Sub-part 2.1033(c)(13)

Digital Modulation Description: N/A

1.2.14 Sub-part 2.1033(c)(14)

Test and Measurement Data: FOLLOWS

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## 1.3 Objective

All tests and measurement data shown was performed to determine whether the selected handset was in compliance as specified in FCC: CFR47 Parts 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, Part 22, and Part 24.

## 1.4 Test Summary

**Test Results:** The test result relates only to those tested devices mentioned in Section 4 of this test report.

Test Performed	Reference	Section of Report	Complies / Does not comply
RF Power Output (Radiated)	FCC Part 22.913(a) / 24.232(b)	6	Not Tested
Occupied Bandwidth: Transmitter Conducted Measurements	FCC Part 2.1049(c)(1), 24.238(a)(b)	7	Not Tested
Spurious Emissions at Antenna Terminals	FCC Part 2.1051	8	Complies
Field Strength of Spurious Radiation	FCC Part 2.1053	9	Not Tested
Frequency Stability (Temperature Variation)	FCC Part 2.1055(a)(1)(b), 24.235	10	Not Tested
Frequency Stability (Voltage Variation)	FCC Part 2.1055(d)(1)(2), 24.235	10	Not Tested

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## 2. STANDARDS BASIS

#### Testing has been carried out in accordance with:

REF.	Code of the standard	Name of the standard	
1	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.	
2	FCC: CFR 47 Part 2	Code of Federal Regulations (CFR) Title 47, Part 2 – Frequency Allocations and Radio Treaty Matters; General Rules and Regulations: Subpart J – Equipment Authorization Procedures	
3	FCC: CFR 47 Part 22	Code of Federal Regulations (CFR) Title 47, Part 22 – Public Mobile Services: Subpart H – Cellular Radiotelephone Service	
4	FCC: CFR 47 Part 24	Code of Federal Regulations (CFR) Title 47, Part 24 – Personal Communications Services: Subpart E – Broadband PCS	
5	ANSI/TIA/EIA 603-A	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	
6	RSS-132	800 MHz Cellular Telephones Employing New Technologies	
7	RSS-133	2 GHz Personal Communications Services, Industry Canada	
8	RSS-212	Test Facilities and Test Methods for Radio Equipment, Industry Canada (Provisional)	
9	RSP-100	Radio Equipment Certification Procedure	

Note: Unless otherwise stated, (by reference to a version number and a publication date), the latest version of the above documents applies.

#### Deviations:

Not Applicable.

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## 3. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS

## 3.1 Abbreviations

- dB decibel
- dBm decibels per milliwatt (absolute measurement)
- GHz gigahertz or 100000000 hertz
- kHz kilohertz or 1000 hertz
- MHz megahertz or 1000000 hertz

#### 3.2 Acronyms

- AMPS Advanced Mobile Phone System
- BSS Base Station Simulator
- CDMA Code Division Multiple Access
- EDRP Effective Dipole Radiated Power
- EIRP Effective Isotropic Radiated Power
- EMC Electromagnetic Compatibility
- **EMI Electromagnetic Interference**
- EUT Equipment under Test
- GSM Global System for Mobile communications
- PCS Personal Communications Services
- RF Radio Frequency
- TDMA Time Division Multiple Access

## 3.3 Terms

Base Station Simulator (BSS) - simulates all the necessary signals that a phone would experience while on a live network. There are many types of base station simulators catering for all current protocols, i.e., GSM, AMPS, TDMA, and CDMA.

Cellular - refers to a frequency in the 800MHz band.

PCS - refers to a frequency in the 1900MHz band.

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## 4. EQUIPMENT-UNDER-TEST (EUT)

The results in this report relate only to the items listed below:

## 4.1 Description of Tested Device(s):

Test Performed	Mode of Operation	Date of Receipt	Condition of Sample	Item	Identifying Information
2.1051	AMPS/TDMA	17-Dec-02	Good	Phone	Type: RH-25
	800/1900				HW ID: 5000f
					ESN 07201999633
					Code: 0511841
					PSN: EYA008999
2.1051	AMPS/TDMA	17-Dec-02	Good	Battery	Type: BLD-3
	800/1900				Other: 3.7v Li-ion

## 4.2 Photograph of Tested Device(s):

Refer to attached EXHIBITS

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## 5. TEST EQUIPMENT LIST

The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items listed can be obtained from the Engineering Services Group within NMP, Product Creation - Dallas. Where relevant, measuring equipment is subjected to in-service checks between testing. TCC - Dallas shall notify clients promptly, in writing, of identification of defective measuring equipment that casts doubt on the validity of results given in this report.

Section of Report	NMP#	Test Equipment	Mfr. #	Model #	Calibration Due Date	Calibration Interval
8	NMP00368	EMI Receiver	Agilent	8546A / 85460A	Jul-22-04	1 Year
8	N/A	6dB Attenuator	Weinshcel	Model 2	N/A	N/A
8	NMP02281	Base Station	WaveTek	4300	Nov-4-04	1 Year
8	N/A	Power Splitter	HP	33120A	N/A	N/A
8	NMP02679	Spectrum Analyzer	Agilent	E7405A	Mar-05-04	1 Year

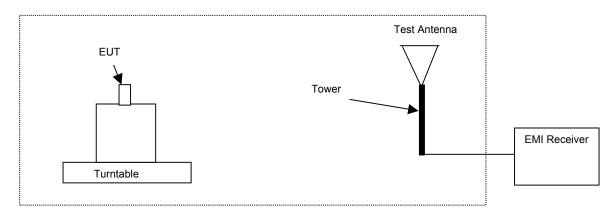
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## 6. RF POWER OUTPUT (RADIATED)

#### Specification: FCC Part 22.913(a), 24.232(b)(c)

## 6.1 Setup



#### 6.2 Pass/Fail Criteria

Band	FCC Limit (dBm)
Cellular	38.5 (EDRP)
PCS	33.0 (EIRP)

## 6.3 Detailed Test Results

## **TEST NOT PERFORMED**

#### 6.4 Measurement Uncertainty

The measurement uncertainty for this test is +/- 2.4dB for 800 to 2000 MHz.

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## 7. OCCUPIED BANDWIDTH (TRANSMITTER CONDUCTED MEASUREMENTS)

#### Specification: FCC Part 2.1049(c)(1), 24.238(a)(b)

#### 7.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call.

#### 7.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular 800, Low Channel	< 824	-13
Cellular 800, High Channel	> 849	-13
PCS 1900, Low Channel	< 1850	-13
PCS 1900, High Channel	> 1910	-13

#### 7.3 Detailed Test Results

## **TEST NOT PERFORMED**

#### 7.4 Measurement Uncertainty

The measurement uncertainty for this test is +/- 3.7dB for 100kHz - 1000MHz and +/- 5.3dB for 1 - 20GHz.

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## 8. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

#### Specification: FCC Part 2.1051

#### 8.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call. Filters were introduced to reduce or eliminate spurious emission, which could be generated internally in the EMI receiver.



#### 8.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular / PCS	30 – 20000 *	-13

\* Frequency to be investigated up to the 10<sup>th</sup> harmonic of the highest clock or frequency used.

#### 8.3 Detailed Test Results

Test Technician / Engineer	Chi Nguyen
Date of Measurement	20-Nov-03
Temperature	22 to 24 °C
Humidity	32 to 37 %RH
Test Result	Complies with FCC Part 2.1051

Note 1: EMI (dBm) = trace (dBuV) + cable loss (dB) + filter loss (dB).

Note 2: measurements were performed with 3MHz RBW/VBW.

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## 8.4 Detailed Test Results

#### AMPS - Channel 991, 824.04 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
1648.30	-35.98	0.78	2.24	-32.97	-13.00
2473.17	-44.92	1.03	3.00	-40.89	-13.00
3296.80	-46.04	1.24	3.26	-41.55	-13.00
4120.89	-49.49	1.57	3.39	-44.53	-13.00
4944.24	-48.86	1.78	3.49	-43.58	-13.00
5767.51	-49.52	1.96	3.74	-43.82	-13.00
6592.01	-48.81	2.03	3.97	-42.81	-13.00
7417.21	-43.56	2.07	4.17	-37.31	-13.00
8239.74	-46.44	2.23	4.37	-39.84	-13.00

#### AMPS - Channel 384, 836.52 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
1672.88	-36.72	0.79	2.29	-33.64	-13.00
2510.20	-46.24	1.06	3.00	-42.18	-13.00
3348.55	-46.93	1.27	3.26	-42.40	-13.00
4184.19	-47.76	1.59	3.40	-42.78	-13.00
5018.63	-48.28	1.80	3.51	-42.98	-13.00
5856.76	-50.22	1.97	3.77	-44.48	-13.00
6692.72	-49.09	2.04	4.00	-43.05	-13.00
7528.83	-46.54	2.08	4.20	-40.27	-13.00
8363.90	-46.72	2.30	4.40	-40.02	-13.00

## AMPS - Channel 799, 848.97 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
1697.93	-37.80	0.76	2.24	-34.79	-13.00
2547.42	-45.28	1.03	3.01	-41.24	-13.00
3397.99	-47.27	1.38	3.27	-42.62	-13.00
4247.49	-48.39	1.61	3.40	-43.37	-13.00
5093.55	-49.36	1.81	3.53	-44.01	-13.00
5944.97	-48.75	1.99	3.79	-42.97	-13.00
6790.17	-46.72	2.04	4.02	-40.66	-13.00
7642.78	-45.44	2.08	4.22	-39.13	-13.00
8487.85	-45.47	2.37	4.43	-38.67	-13.00

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#### TDMA 800 - Channel 991, 824.04 MHz

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Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
1648.38	-32.67	0.78	2.24	-29.65	-13.00
2474.28	-46.25	1.03	3.00	-42.22	-13.00
3295.07	-46.34	1.24	3.26	-41.85	-13.00
4121.16	-48.48	1.57	3.39	-43.52	-13.00
4942.03	-49.60	1.78	3.49	-44.32	-13.00
5766.30	-49.36	1.96	3.74	-43.66	-13.00
6595.24	-48.32	2.03	3.97	-42.31	-13.00
7417.39	-45.19	2.07	4.17	-38.95	-13.00
8239.26	-45.03	2.23	4.37	-38.43	-13.00

## TDMA 800 - Channel 384, 836.52 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
1673.52	-34.10	0.79	2.29	-31.03	-13.00
2508.22	-47.63	1.06	3.00	-43.57	-13.00
3346.47	-48.62	1.27	3.26	-44.09	-13.00
4180.15	-49.34	1.59	3.40	-44.35	-13.00
5019.69	-48.77	1.80	3.51	-43.46	-13.00
5853.78	-49.16	1.97	3.77	-43.42	-13.00
6695.13	-48.78	2.04	4.00	-42.75	-13.00
7526.92	-45.48	2.08	4.20	-39.20	-13.00
8368.08	-47.75	2.30	4.40	-41.05	-13.00

## TDMA 800 - Channel 799, 848.97 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
1697.71	-35.93	0.76	2.24	-32.93	-13.00
2546.26	-43.83	1.03	3.01	-39.79	-13.00
3393.70	-48.83	1.38	3.27	-44.17	-13.00
4243.05	-48.44	1.61	3.40	-43.43	-13.00
5095.64	-49.35	1.81	3.53	-44.00	-13.00
5940.73	-47.75	1.99	3.79	-41.96	-13.00
6794.49	-45.42	2.04	4.02	-39.35	-13.00
7638.03	-45.05	2.08	4.22	-38.74	-13.00
8488.86	-46.68	2.37	4.43	-39.88	-13.00

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#### TDMA 1900 - Channel 2, 1850.04 MHz

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Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
3697.54	-49.22	1.50	3.32	-44.39	-13.00
5551.05	-43.05	1.91	3.68	-37.46	-13.00
7397.23	-45.59	2.07	4.17	-39.35	-13.00
9250.09	-46.14	2.75	4.63	-38.77	-13.00
10387.09	-45.64	3.13	4.96	-37.55	-13.00
11099.85	-46.38	3.19	5.24	-37.96	-13.00
12950.76	-44.47	3.25	5.88	-35.34	-13.00
14800.29	-44.24	3.25	6.44	-34.54	-13.00
16652.46	-44.54	3.42	7.36	-33.76	-13.00
18500.29	-44.83	4.01	8.25	-32.57	-13.00

## TDMA 1900 - Channel 999, 1879.95 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
3760.51	-49.16	1.57	3.33	-44.26	-13.00
5639.82	-44.36	1.93	3.70	-38.73	-13.00
7519.50	-45.01	2.08	4.19	-38.74	-13.00
9398.86	-47.17	2.82	4.66	-39.69	-13.00
11278.11	-46.02	3.20	5.30	-37.51	-13.00
13160.70	-45.12	3.25	5.95	-35.92	-13.00
15041.67	-43.65	3.25	6.52	-33.88	-13.00
16921.32	-44.38	3.49	7.49	-33.40	-13.00
18798.27	-44.28	4.16	8.40	-31.71	-13.00

#### TDMA 1900 - Channel 1998, 1909.92 MHz

Freq (Max)	(PK) Trace	Cable	Filter	(PK) EMI	FCC Limit
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)
3820.99	-49.35	1.39	3.34	-44.62	-13.00
5730.13	-38.84	1.95	3.73	-33.16	-13.00
7641.00	-44.58	2.08	4.22	-38.27	-13.00
9550.15	-43.92	2.89	4.70	-36.33	-13.00
11458.84	-45.89	3.21	5.37	-37.31	-13.00
13367.92	-43.12	3.25	6.02	-33.85	-13.00
15277.08	-44.48	3.25	6.65	-34.57	-13.00
17186.33	-44.53	3.55	7.62	-33.35	-13.00
19098.78	-45.34	4.31	8.55	-32.48	-13.00

#### 8.5 Measurement Uncertainty

The measurement uncertainty for this test is +/- 3.7dB for 100kHz - 1000MHz and +/- 5.3dB for 1 - 20GHz.

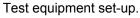
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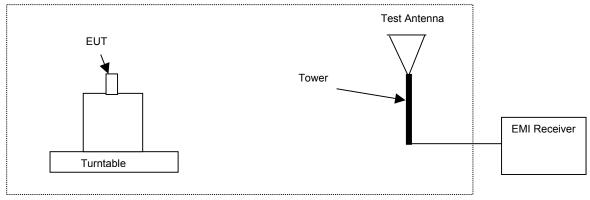
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## 9. FIELD STRENGTH OF SPURIOUS RADIATION

#### Specification: FCC Part 2.1053

#### 9.1 Setup





#### 9.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limit (dBm)
Cellular / PCS	30 – 20000*	-13

• Frequency to be investigated up to the 10<sup>th</sup> harmonic of the highest clock or frequency used.

Subsitution method according to ANSI/TIA/EIA 603-1 was used for final measurements.

#### 9.3 Detailed Test Results

## TEST NOT PERFORMED

## 9.4 Measurement Uncertainty

The measurement uncertainty for this test is +/- 5.2dB for 30-300MHz; +/- 5.2dB for 300-1000MHz, +/- 5.6dB for 1-6GHz and +/-6.8 for 6-18GHz.

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## 10. FREQUENCY STABILITY (TEMPERATURE VARIATION / VOLTAGE VARIATION)

Specification: FCC Part 2.1055(a)(1)(b), 24.235

Specification: FCC Part 2.1055(d)(1)(2), 24.235

## 10.1 Setup

The EUT was connected to the base station simulator to measure the RF power output.

#### 10.2 Pass/Fail Criteria

Not Applicable

## **10.3 Detailed Test Results**

## **TEST NOT PERFORMED**