

Test & Certification Center (TCC) - Dallas

FCC ID: GMLNPW-1PA
Test Report #: 02-RF-0086
29 July 2002

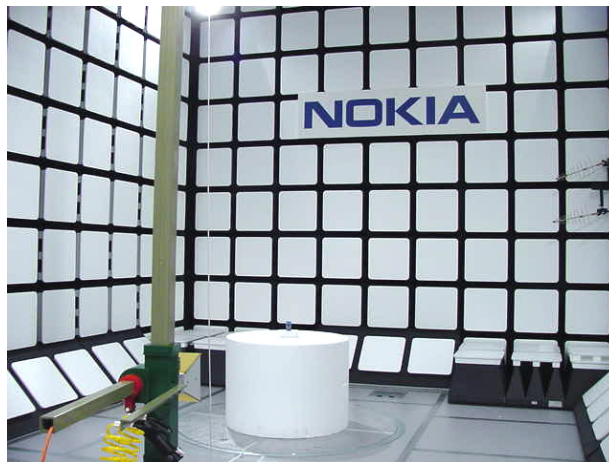
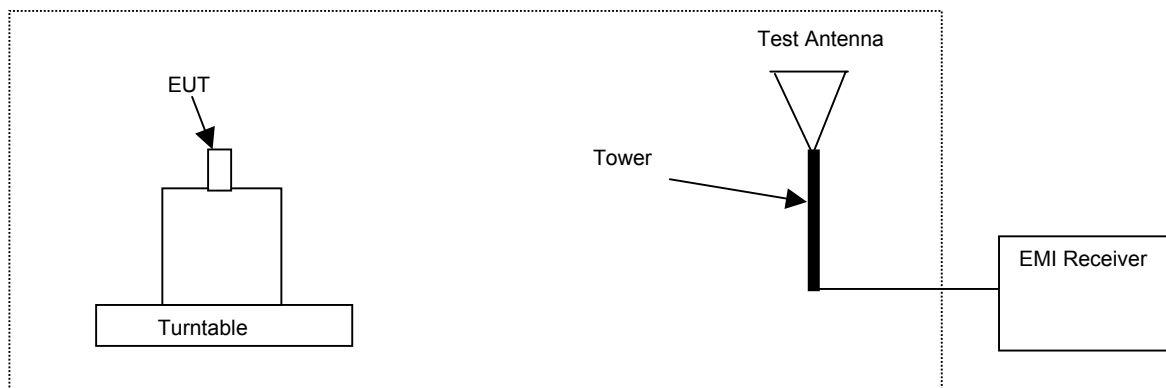
Ver 1.0

7. RF POWER OUTPUT (RADIATED)

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

7.1 Setup

Testing was performed in accordance with document ANSI/TIA/EIA-603-A, section 2.2.17 Average Radiated Power Output.



11. OCCUPIED BANDWIDTH (EMISSIONS MASKS)

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

11.1 Setup

Testing was performed with the EUT connected to a 6dB splitter, 6dB attenuator, 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.

For EUTs supporting audio modulation, the audio signal generator was adjusted to the frequency of maximum response and with the output level set for +/-2.5kHz deviation (or 50% modulation). With level constant, the signal level was increased 16dB.

For EUTs supporting digital modulation, the digital modulation mode was operated to its maximum extent.



11.2 Pass/Fail Criteria

Modulation	Low Limit (kHz)	High Limit (kHz)
Voice	10.8	13.2
Wideband Data	7.2	8.8

11.3 Detailed Test Results

Test Technician / Engineer	Mark Severson	
Date of Measurement	June 21-25, 2002	
Temperature / Humidity	22°C	64-59%RH
Test Result	NPW-1PA with FCC ID: GMLNPW-1PA complies with FCC Part 2.1049(c)(1), 24.238(a)(b) when operated at max power.	

14. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Specification: FCC Part 2.1051

14.1 Setup

Testing was performed with the EUT connected to a 6dB splitter, 6dB attenuator, 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.



14.2 Pass/Fail Criteria

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

* Frequency to be investigated up to the 10th harmonic of the highest clock or frequency used.

14.3 Detailed Test Results

Test Technician / Engineer	Bob Alexander	
Date of Measurement	22 June 2002	
Temperature / Humidity	22°C	59%RH
Test Result	NPW-1PA with FCC ID: GMLNPW-1PA complies with FCC Part 2.1051 when operated at max power.	

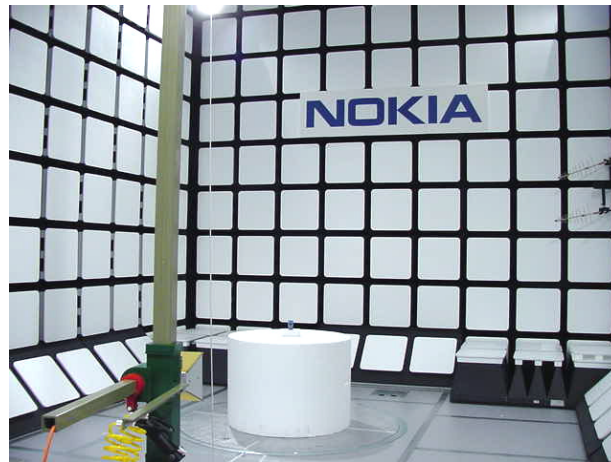
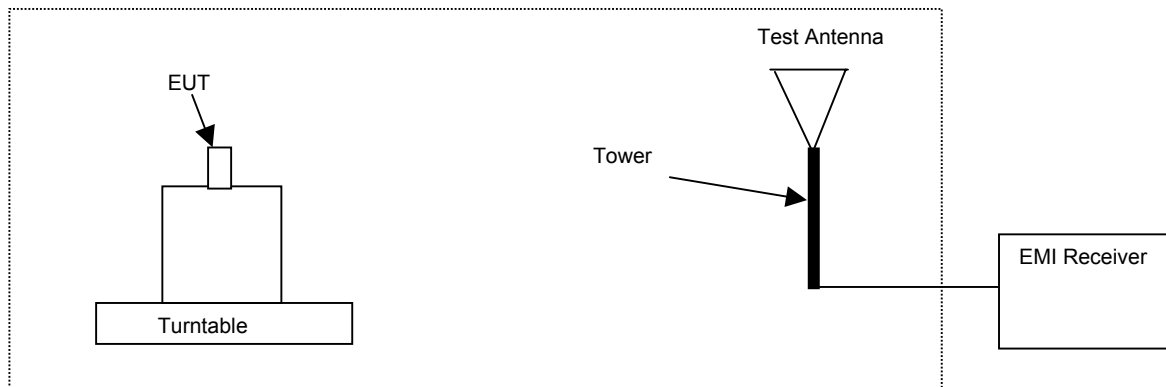
EMI (dBm) = trace (dBuV) + cable loss (dB) + filter loss (dB).

15. FIELD STRENGTH OF SPURIOUS RADIATION

Specification: FCC Part 2.1053

15.1 Setup

Test equipment set-up.



15.2 Pass/Fail Criteria

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

* Frequency to be investigated up to the 10th harmonic of the highest clock or frequency used.

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