



# EXHIBIT 2C

## S8000 EMC Lab Report

Applicant: Northern Telecom Ltd.

For Certification on:

AB6OUD850S8000



## TEST REPORT

**CFR 47 Part 15  
CFR 47 Part 22  
and CFR 47 24**

**BTS S8000 INDOOR 850/1900 MHz in S4\_4 configuration**

**N°149014DK**

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Written by : D.RAUD

5 April 2002

Identification : 149014DK

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## Applicant:

SANMINA SCI  
(Yoann BRUNETIERE)  
19 rue du Centre - CT506  
Guyancourt  
78928  
FRANCE

## Product description

### Product:

Manufacturer :

NORTEL NETWORKS  
38, rue Paul Cézanne  
Guyancourt  
78928 Yvelines

Responsible of the equipment: (Yoann BRUNETIERE)

Product type: BTS S8000 INDOOR 850/1900 MHz in S4\_4 configuration

Ref.:NTQA65AC02 Serial: prototype 197101

Manual: none

Power supply: 0/-48Vdc , tested at : 0/-48Vdc

### PRODUCT PICTURE:



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Top  
view



**PRODUCT COMPOSITION:**

## Références matérielles :

CMCF	NTQA66 CB 05	NNTMES00ACUA
CPCMI	NTQA66 AA 05	NNTMES001P8S
RECAL	NTQA66 DA 02	NNTMES00CUH0

## - Références eDRX 850GSM

DRX0	NTQA88HA D2	CDN200208004
DRX1	NTQA88HA D2	CDN200208011
DRX2	NTQA88HA D2	CDN200208007
DRX3	NTQA88HA D2	CDN200208006

## - Références eDRX PCS

DRX4	NTQA88PA 01 NNTM7503BQMM
DRX5	NTQA88PA 01 NNTM7503BQN7
DRX6	NTQA88PA 01 NNTM7503BQMN
DRX7	NTQA88PA 01 NNTM7503BQN9

## - Références escPA 850GSM

PA0	NTQA37AA D1	PWWT01D3KCEC
PA1	NTQA37AA D1	PWWT01D35TCC
PA2	NTQA37AA D1	PWWT01D35T8C
PA3	NTQA37AA D1	PWWT01D35RYC

## - Références escPA PCS

PA4	NTQA50GA 01	PWWT03D2VCLP
PA5	NTQA50GA 01	PWWT01D2XFMP
PA6	NTQA50GA 01	PWWT01D2V9GP
PA7	NTQA50GA 01	PWWT01D2FVJP

## - Références H2D 850GSM

H2D0	NTQA38BA D1	FORM01269369
H2D1	NTQA38BA D1	FORM01269370

## - Références H2D PCS

H2D2	NTQA51AA 07	PALD01002BK9
H2D3	NTQA51AA 07	PALD01002BGE

## - Références Splitter 850GSM

Splitter0	NTQA85XA P1	NNTMES00CQZH
Splitter1	NTQA85XA P1	NNTMES00CQZR

## - Références Splitter PCS

Splitter2	NTQA10AA 03	NNTMES001ORD
Splitter3	NTQA10AA 03	NNTMES001SLI



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Cables: see appendix C10

**UTILISATION:**

Base Transceiver Station

**General test conditions**

**AUXILIARY EQUIPMENT:**

none

**WORKING MODE FOR EMISSION TEST**

Measurements are done in transmitter mode (all transmitters at maximum power , in BCCH mode without frequency hopping), and in receiver mode (see appendix C9)

Channels configuration for the test:

DRX#	FREQUENCY (MHz)	CHANNEL #
0	869,2	128
1	877,4	169
2	885,6	210
3	893,8	251
4	1930,2	512
5	1950,2	612
6	1970,0	711
7	1989,8	810





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## Reference standards choice

The product is information technology equipment . The product standard CFR47 Part 15 has to be used for emission (class B because of residential, commercial and light industry use).

The product is a personal communication service equipment

So, applicable standards are:

CFR47 Part 15 class B (2001)

CFR47 part 22, (2000)

CFR47 part 24, (2000)

## Interpretation and remarks:

This equipment conforms to limits standards for EMC measurements.

### IMPORTANT REMARK :

Substitution method was not performed as there was nor spurious emission neither emission within the limits detected in prescan as shown by appendix 1

The EUT Plot on page 18 shows measured noise floor levels detected while testing the BTS 8000



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## **Test according to CFR 47 Part 15 Class B**

Tests performed by Daniel RAUD at GYL Technologies laboratories in March 27 and 28 of 2002

### **REFERENCE DOCUMENTATION:**

FCC CFR 47 part 0 to 15, (2001)  
ANSI C63.4 (1992).

### **CONDUCTED DISTURBANCE AT INPUT POWER ACCESS :**

**Not applicable: powered by -48Vdc**

**RADIATED DISTURBANCE :**

**Limit :**

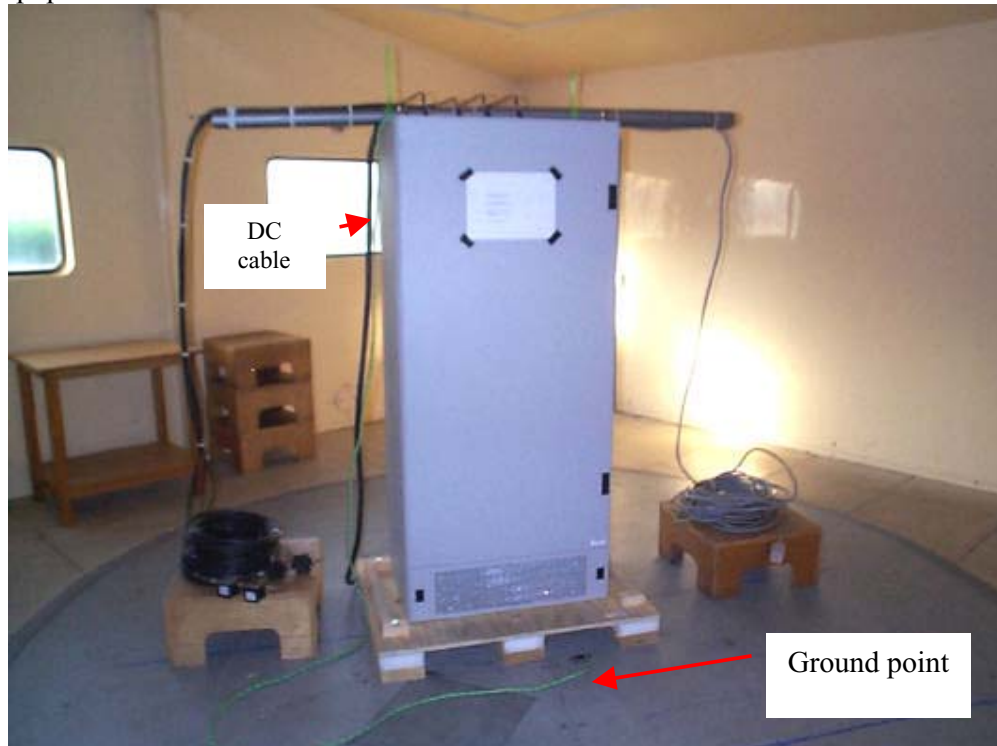
Class B of USA standard regulation CFR 47 part 15 subpart B for radiated emission limit (§15.109 class B device) for unintentional radiator and (§15.209 class B device) for intentional radiator

**General measurement conditions.**

Conforms to ANSI C63.4.

Diagram in 0° position, angles are positives in the reverse clock wise.

Equipment under test.



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**Method of measurement.**

Method of measurement and test installation according to Section 8 of the ANSI C63.4 measurement standard.

Measurement are done at 10m in a free area.

We try to obtain a maximum at all frequencies by moving the product orientation and antenna polarisation. The height of the antenna can vary from 1 m to 4 m.

**Test equipment used :**

APPARATUS	MANUFACTURER	REFERENCE	SERIAL NUMBER	Date of verification
Free field open area test site				Nov-01
Receiver	Rohde & Schwarz	ESI 7	834638/007	Dec-01
*RECEIVERS 30 MHz to 1000 MHz				
Receptive chain :	Hewlett Packard	HP 8574 A	-	-
Q-P Adaptator	Hewlett Packard	HP 85650A	2811A01134	Jan-02
Spectrum analyser	Hewlett Packard	HP 8568 B	2816A116603	Jan-02
Preselector	Hewlett Packard	HP 685685A	287A00784	Jan-02
REMS Software	Hewlett Packard	HP 85879A	-	-
for fieldstrength		rev A.02.01		
*ANTENNAS				
Bilog	CHASE	CBL-6112	2434	Nov-01

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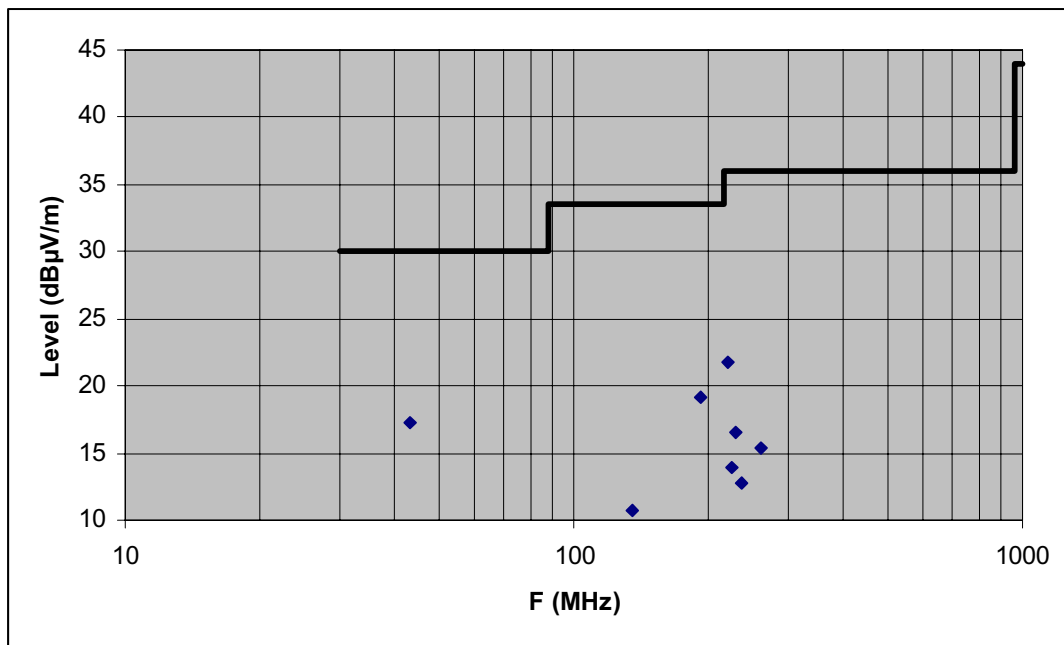
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**Results :**

Highest lines table :

Frequency (MHz)	Quasi-peak (dB $\mu$ V/m)	Std limit (dB $\mu$ V/m)	Margin dB	Angle (Deg.)	Site (cm)	Polarisation	Comment
43,015	17,2	30	-12,8	245	190	V	
135,065	10,7	33,5	-22,8	145	160	V	
192,499	19,2	33,5	-14,3	60	180	H	
221,201	21,8	36	-14,2	350	370	V	
225,288	13,9	36	-22,1	350	370	V	
229,396	16,6	36	-19,4	345	340	H	
237,568	12,7	36	-23,3	0	200	V	
262,074	15,38	36	-20,6	0	100	V	

No spurious signal found over 262,074 MHz



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Pre-Scan measurement to identify spurious emissions from EUT at D=1m on appendix 1.

**INTERPRETATION AND REMARKS:**

Conform

**Test according to CFR 47 Part 22**

Subpart E: § 22.917

Tests performed by Daniel RAUD at GYL Technologies laboratories in March 28 of 2002 .

**REFERENCE DOCUMENTATION:**

CFR 47 part 20 to 39, (2000)

ANSI C63.4 (1992).

**RADIATED DISTURBANCE :**

**General measurement conditions.**

Conforms to Section 8 of the ANSI C63.4 measurement standard.

Equipment under test:





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**Method of measurement.**

Method of measurement and test installation according ANSI C63.4.

Measurement are done at 1m in a free area.

We try to obtain a maximum at all frequencies by moving the product orientation and antenna polarisation. The height of the antenna can vary from 1 m to 4 m.

Measurements done in transmitter mode ( all transmitters at maximum power 30 W, in BCCH mode without frequency hopping ) and in receiver mode.

**Test equipment used :**

APPARATUS	MANUFACTURER	REFERENCE	SERIAL NUMBER	Date of verification
Free field open area test site				Nov-01
Horn antenna	EMCO	9504 - 4496	3115	Apr-00
Spectrum analyzer (20Hz-26.5GHz)	Rohde & Schwarz	FSEM30	107 985 00.30	Apr-01



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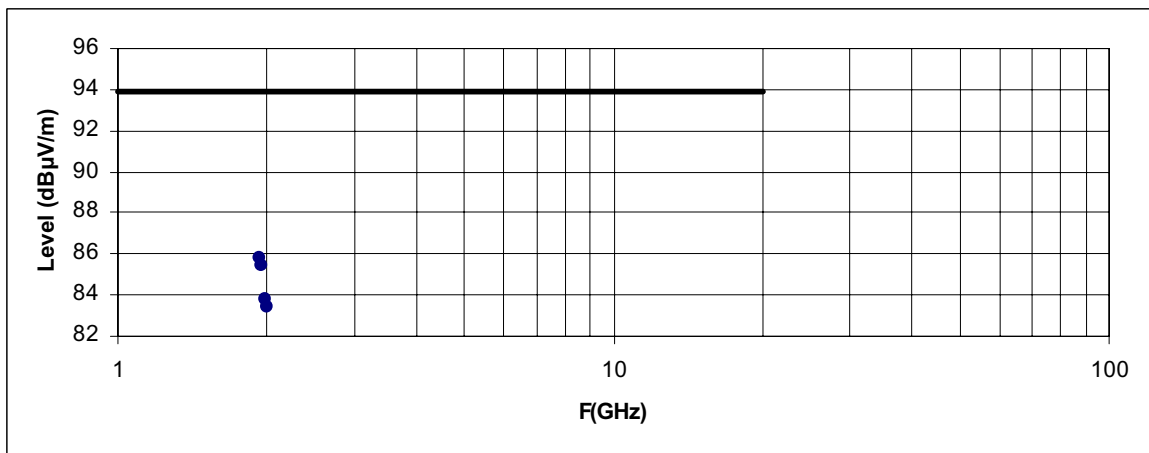
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Results :

**1 - Measurement at transmitters frequencies for indicative level**  
**transmitters output connected to resistive 50 ohms loads.**

FREQUENCY ( GHz )	Measure ( dBμV )	AF A	Loss cable B	Correc.Factor A+B	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1						93,9	
1,9302	55,96	27,9	2	29,9	85,9	93,9	-8,0
1,9502	55,59	27,9	2	29,9	85,5	93,9	-8,4
1,9700	53,96	27,9	2	29,9	83,9	93,9	-10,0
1,9898	53,58	27,9	2	29,9	83,5	93,9	-10,4
20						93,9	



**2 - Spurious emissions measurement.**

No spurious emission found which level upper to noise level in 100KHz bandwidth

**INTERPRETATION AND REMARKS:**

Conform



## Test according to CFR 47 Part 24

Subpart E: § 24.238

Tests performed by Daniel RAUD at GYL Technologies laboratories in March 28 of 2002 .

### REFERENCE DOCUMENTATION:

CFR 47 part 20 to 39, (2000)

ANSI C63.4 (1992).

### RADIATED DISTURBANCE :

#### General measurement conditions.

Conforms to Section 8 of the ANSI C63.4 measurement standard.

Equipment under test:



#### Method of measurement.

Method of measurement and test installation according ANSI C63.4.

Measurement are done at 1m in a free area.

We try to obtain a maximum at all frequencies by moving the product orientation and antenna polarisation. The height of the antenna can vary from 1 m to 4 m.



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Measurements done in transmitter mode ( all transmitters at maximum power 30 W, in BCCH mode without frequency hopping ) and in receiver mode.

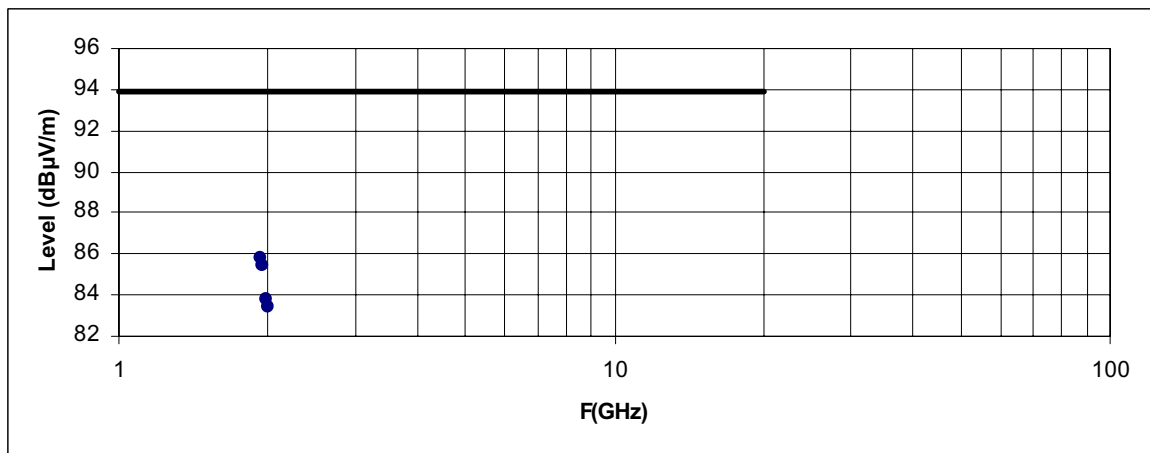
**Test equipment used :**

APPARATUS	MANUFACTURER	REFERENCE	SERIAL NUMBER	Date of verification
Free field open area test site				Nov-01
Horn antenna	EMCO	9504 - 4496	3115	Apr-00
Spectrum analyzer (20Hz-26.5GHz)	Rohde & Schwarz	FSEM30	107 985 00.30	Apr-01

Results :

**1 - Measurement at transmitters frequencies for indicative level transmitters output connected to resistive 50 ohms loads.**

FREQUENCY ( GHz )	Measure ( dB $\mu$ V )	AF A	Loss cable B	Correc.Factor A+B	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1						93,9	
1,9302	55,96	27,9	2	29,9	85,9	93,9	-8,0
1,9502	55,59	27,9	2	29,9	85,5	93,9	-8,4
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1,9898	53,58	27,9	2	29,9	83,5	93,9	-10,4
20						93,9	



**2 - Spurious emissions measurement.**

No spurious emission found which level upper to noise level in 100KHz bandwidth

**INTERPRETATION AND REMARKS:**

Conform

Spectrum of noise level from 1GHz to 20GHz including loss cable and antenna factors.



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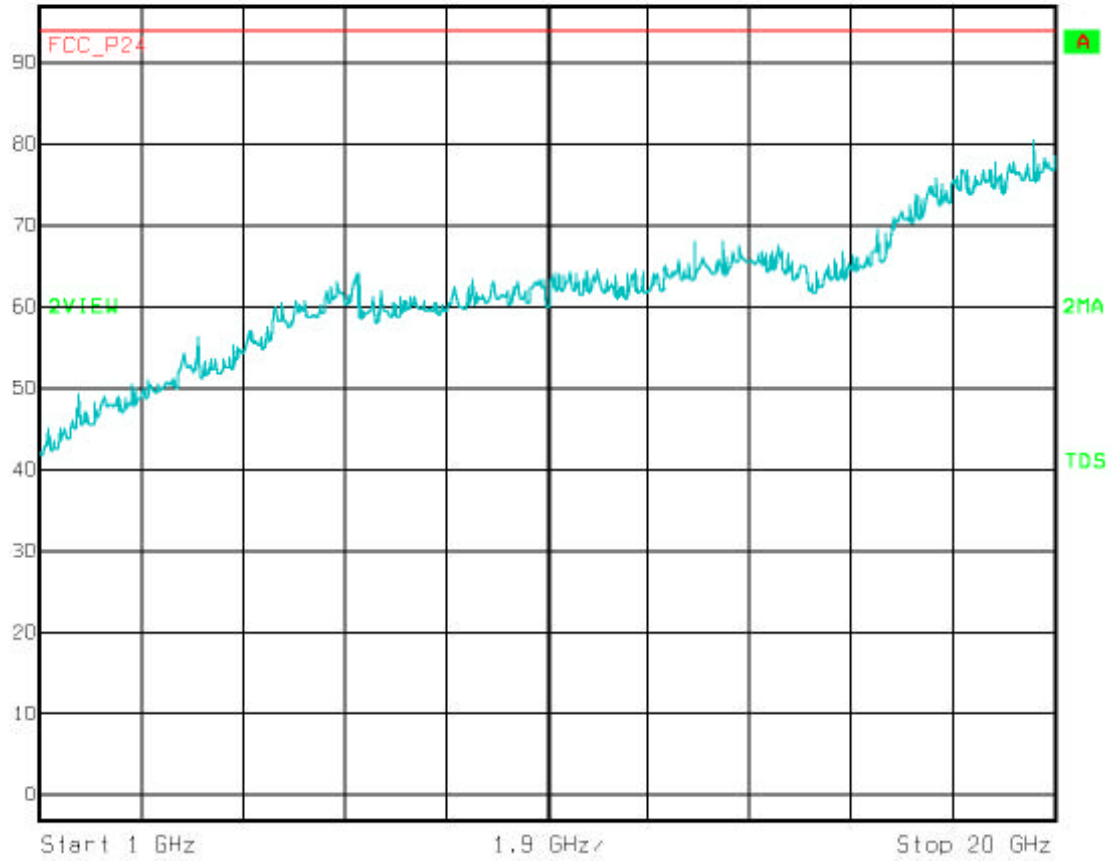
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Ref Lvl  
97 dB $\mu$ V

RBW	100 kHz	RF Att	0 dB
VBW	300 kHz	Unit	dB $\mu$ V
SWT	200 ms		



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## **S8000 850 MHz : EMC test Plan**

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**Reference:** Nortel-STP-00282  
**Version:** 01-en  
**Status:** Approved  
**Date:** 06/03/2002

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**Product Name:** S8000 BTS  
**Frequency:** 850 MHz  
**Discipline:** EMC

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**Author:** Y. BRUNETIERE

**Verified by:** T. LUCHINI

**Approved by:** C. CHANSARD

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## PUBLICATION HISTORY

<b>VERSION</b>	<b>DATE</b>	<b>AUTHOR</b>	<b>MODIFICATION</b>
01-en	06/03/2002	Y. BRUNETIERE	Creation of the document

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# 1. INTRODUCTION

This objective of this document is to present the test plan for EMC testing on the S8000 BTS Indoor & Outdoor configured in 850/1900 MHz.

This strategy is the following :

- Realize the qualification in the Indoor 850/1900 MHz in S4\_4 configuration,
- Realize the qualification in the Outdoor 850 MHz in S44 configuration,

The qualification on the S8000 BTS will be done according to the FCC Part 15, & 24 as defined by Nortel Networks.

This document presents then the requirements Sanmina needed to ensure the results of the qualification during the qualification phase, and also the tests that will be realized during the two steps described above.

This document applied to :

- Product : S8000 Indoor & Outdoor BTS
- Manufacturer : Nortel Networks
- Frequencies : 850/1900 MHz
- Configuration : S4\_4 for Indoor BTS & S44 for Outdoor BTS
- Ancillary : TBD
- Options : TBD



**S8000 850 MHz : EMC test Plan**

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**2. APPLICABLES DOCUMENTS**

- |      |                |   |
|------|----------------|---|
| [A1] | CFR 47 Part 2  | Code of Federal Regulations - Part 2 - Frequency Allocations and Radio Treaty Matters. General Rules and Regulations. Date : June 1996. |
| [A2] | CFR 47 Part 15 | Code of Federal Regulations - Part 15 - Radio Frequency Devices.  |
| [A3] | CFR 47 Part 22 | Code of Federal Regulations - Part 22 - Public Mobile Services.   |
| [A4] | CFR 47 Part 24 | Code of Federal Regulations - Part 24 - Personal Communications Services. Date : June 1996.   |

**S8000 850 MHz : EMC test Plan**

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### 3. TEST PLAN SUMMARY

The following table presents the test plan summary for the qualification of the S8000 Indoor & Outdoor in 850/1900 MHz configuration.

Test	Required	Test Specification	Reference Method	Configuration of the EUT
Radiated Emissions	Yes	FCC Part 15	Section 15.109	S8000 Indoor 850 / 1900 MHz S4_4
Radiated Emissions	Yes	FCC Part 24	Section 24.238	
Radiated Emissions	Yes	FCC Part 15	Section 15.109	S8000 Outdoor 850 MHz S44
Conducted Emissions	Yes	FCC Part 15	Section 15.107	

## 4. RADIATED EMISSION TESTS

**Standard Coverage** : FCC Part 15.109 & FCC Part 24.238

**Intend** :

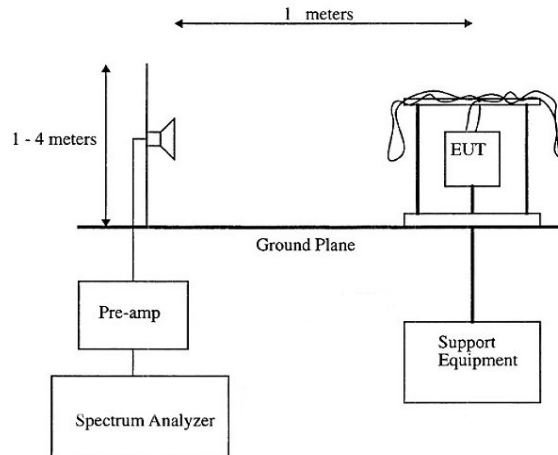
- (a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonics and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of 2.989, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open filed measurements (e.g., a broadcast transmitter installed in a building) measurements will be acceptable of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from half-wave dipole antennas.
- (b) The measurements specified in paragraph (a) of this section shall be made for the following equipment :
  - (1) Those in which the spurious emission are required to be 60 dB or more below the mean power of the transmitter.
  - (2) All equipment operating on frequencies higher than 25 MHz.
  - (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.
  - (4) Other types of equipment as required, when deemed necessary by the Commission.

**Test Procedure** :

Radiated emission measurement procedures shall be performed as outlined in Section 8 of the ANSI C63.4 measurement standard. The BTS will be tested to the applicable limits of the FCC rules. For radiated emission measurements the measurement distance between the center of the measurement antenna and the equipment under test shall be 3 meters (or less for frequencies above 1 GHz). In order to maximize all emission levels from the equipment, the emissions will be searched with the receive antenna at varied height levels. The equipment shall also be rotated a full 360 degrees on the turntable with the receive antenna at varying height levels (1 to 4 meters). Tests shall be made with the antenna positioned in both the horizontal and vertical planes of polarization. The BTS shall be placed on the turntable as per ANSI C63.4 measurement procedures. Please see the Part 15 test plan as Part 24 radiated requirements will be tested in conjunction with the Part 15 testing. The spectrum shall be searched to identify emissions. A complete scan of the applicable spectrum shall be completed (up to 10<sup>th</sup> harmonic of fundamental). The transmitter shall then be turned off, with the rest of the equipment powered on. A complete scan of the spectrum shall be done and referred to as "ambient" without the transmitter keyed on. Emissions emanating from the transmitter shall be identified from comparing these two scans. The identified emissions (from the transmitter) shall be measured and the levels recorded with the transmitter keyed on at full rated power output.

## S8000 850 MHz : EMC test Plan

The equipment was configured as shown in the next figure.



*Figure 7 : Test configuration for Radiated Spurious emissions*

The BTS was configured to transmit at maximum power (static level 0). Measurements were made according to the procedures outline in ANSI C63.4. The emissions were investigated up to the tenth harmonic of the fundamental emission (20 GHz). The measured level of the emissions was recorded and compared to the limit. The reference level for spurious radiation was taken with reference to an ideal dipole antenna excited by the rated output power according to the following relationship :

$$E(V/m) = \frac{1}{R(m)} * \sqrt{30 * P_t * G}$$

Where,

E = Field Strength in Volts/meter,  
 R = Measurement distance in meters,  
 P<sub>t</sub> = Transmitter Rated Power in Watts (30 Watts),  
 G = Gain of ideal Dipole (linear)

Therefore :

$$E(V/m) = \sqrt{30 * 30 * 1.64}$$

E = 38.42 V/m = 151.69 dBμV/m

The spurious emissions must be attenuated by at least 43 + 10\*Log(30) = 57.7 dB.

Therefore the field strength limit at 1 meters is :

E = 151.69 dBμV/m – 57.7 dB = 93.9 dBμV/m

## S8000 850 MHz : EMC test Plan

Spectrum Analyzer setting during measurements shall be as following :

Receiver Setting	Pre-Scan (to identify spurious emissions from EUT)	Final Measurements
Detector Type	Peak	Quasi-Peak (CISPR)
Mode	Max Hold	Not Applicable
Bandwidth	100 kHz or 1 MHz (for > 1GHz)	120 kHz*
Amplitude Range	60 dB	20 dB
Measurement Time	Not Applicable	> 1s
Observation Time	Not Applicable	> 15s
Step size	Continuous sweep	Not Applicable
Sweep Time	Coupled	Not Applicable
Measuring Distance	3m for 30 MHz - 1GHz 1m for 1GHz - 20GHz	10m for 30 MHz - 1GHz 1m for 1GHz - 20GHz

### Pass / Fail criteria :

- For 30 MHz to 1 GHz :  
 Measurement distance : **10 m**  
 Limit : [30 MHz-88 MHz]    **39 dB $\mu$ V/m**  
           [88 MHz-216 MHz]    **43.5 dB $\mu$ V/m**  
           [216 MHz-960 MHz]   **46 dB $\mu$ V/m**  
           Above 960 MHz        **49.5 dB $\mu$ V/m**
- For 1 GHz to 20 GHz :  
 Measurement distance : 1 m  
 Limit : **93.9 dB $\mu$ V/m**

### S/W Configuration – Traffic data flow :

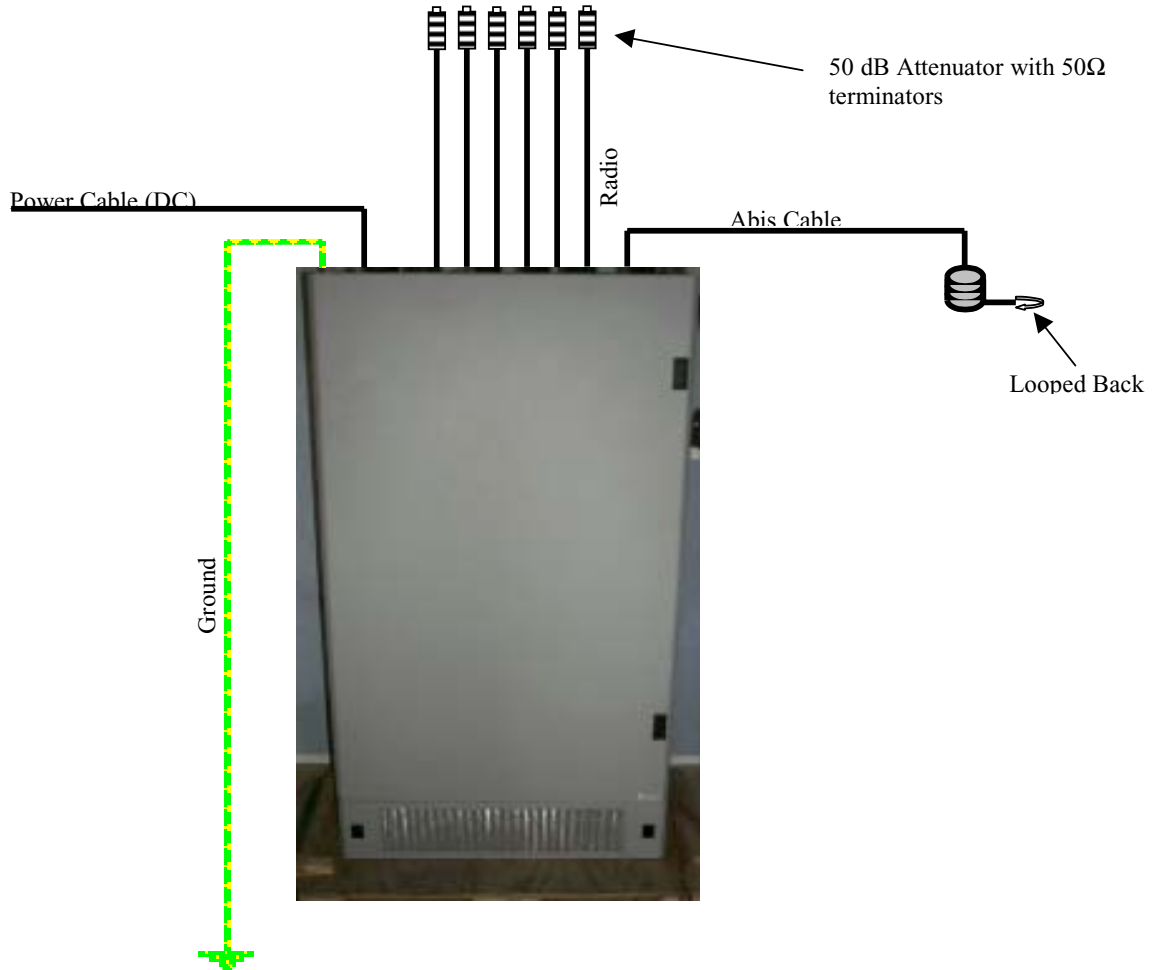
All transmitters in the EUT should be transmitting at full power.

The transmitters' operating frequencies should be selected by setting the Absolute Radio Frequency Channel Numbers (ARFCN) equally distributed over the BSS operating band, subject to any restrictions of the configuration of the EUT.

Transmit Power :    All TX at 30 W

## 5. INSTALLATION DIAGRAM

The drawing gives a representation of functional test bench.



The following table presents the list of cable :

S8000 Indoor				
Cables	Description	Length		Quantity
Radio cables	RG214	10 m	Shielded	6
Abis cable	NTQA1717	5.5 m	Shielded	1
Power cable (0v/-48v)	Type H07 RN-F	/	Not Shielded	1
Ground cable	Type H07 VK	/	/	1
Equipotentiality braid	/	0.5 m	/	1

S8000 Outdoor				
Cables	Description	Length		Quantity
Radio cables	RG214	10 m	Shielded	6
Abis cable	NTQA1717	5.5 m	Shielded	1
Power cable	Type H07 RN-F	/	Not Shielded	1
Equipotentiality braid	/	0.5 m	/	1

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## 6. ABBREVIATIONS AND DEFINITIONS

### 6.1. ABBREVIATIONS

BTS	Base Transceiver Station
DC	Direct Current
DCS	Digital Cellular System
DRX	Driver Receiver unit
EMC	ElectroMagnetic Compatibility
EN	European Norm
ETS	ETSI Standard
EUT	Equipment Under Test
GSM	Global System Mobile
IT	Information Technology
N/A	Not Applicable
RF	Radio Frequency
RXQUAL	Receive Quality
TRX	Transmitter / Receiver

### 6.2. DEFINITIONS

**FCC Part 2** – This part contains the table of frequency allocations and special requirements in international regulations, recommendations, agreements, and treaties. This part also contains standards and procedures concerning the marking and importation of radio frequency devices, and for obtaining equipment authorization.

**FCC Part 15** – This part contains rules setting out the regulations under which an international, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 Devices.

**FCC Part 24** – This part states the conditions under which portions of the radio spectrum are made available and licensed for PCS.

**Effective Radiated Power (ERP)** – The product of the power supplied to the antenna and its gain relative to a half-wave dipole in a given direction.

**Equivalent Isotropically Radiated Power (e.i.r.p.)** – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

**Mean power (of a radio transmitter)** – The average power supplied to the antenna transmission line by a transmitter during an interval of time sufficiently long compared with the lowest frequency encountered in the modulation taken under normal operating conditions.

❧ END OF DOCUMENT ❧

REPORT : 149014DK APPENDIX 1  
 PRODUCT NAME : 58000 INDOOR 850MHz/1900MHz  
 STANDARD : FCC CFR47 PART 15 CLASS B (Limit for D=1m)  
 MEASUREMENT : ELECTRIC FIELD 30MHz-16Hz (PRESCAN) D=1m  
                   8 HIGHER LEVEL SIGNALS FOUND DURING PRESCAN MEASUREMENT  
 CONDITIONS : 0/-48Vdc  
 DATE : March, 27 of 2002  
 MEASUREMENT DONE BY : D.RAUD

ALL SUSPECTS

No	FREQ MHz	BND	PEAK LIM	ABS	ANT P	AZ deg	COMMENTS
1	43.00	2	-26	24.0	V110	270	
2	135.151	13	-29	24.6	V110	270	
3	192.58	18	-23	31.0	H100	270	
4	221.20	20	-34	21.8	V110	270	
5	225.24	20	-34	21.5	V110	270	
6	229.41	20	-35	21.3	V110	270	
7	237.570	20	-37	19.5	V100	0	
8	262.074	21	-37	18.8	V100	0	

\* denotes a Final List signal

