

TSG-RAN Meeting #10
Bangkok, Thailand, 6 - 8 December 2000

RP-000585

Title: Agreed CRs to TS 25.101

Source: TSG RAN WG4

Agenda Item:5.4.3

Tdoc Num	TS	CR number	Title	Type	Status	Cur Ver	New Ver
R4-000885	25.101	79	Proposed CR to TS 25.101 on subclause 7.8 RX Intermodulation	F	agreed	3.4.1	3.5.0
R4-000901	25.101	80	Corrections to DL compressed mode tests in TS 25.101	F	agreed	3.4.1	3.5.0
R4-000902	25.101	81	Correction to DL 384 kbps and BTFD measurement channels	F	agreed	3.4.1	3.5.0
R4-000917	25.101	82	Compressed mode, proposal for specification	F	agreed	3.4.1	3.5.0
R4-000973	25.101	82	RX spurious emissions	F	agreed	3.4.1	3.5.0
R4-000982	25.101	84	Correction for 25.101 concerning the channel number calculation	F	agreed	3.4.1	3.5.0
R4-000990	25.101	85	Definition of multi-code OCNS signal for receiver and performance tests	F	agreed	3.4.1	3.5.0

CHANGE REQUEST

⌘ **25.101 CR 79** ⌘ rev **-** ⌘ Current version: **3.4.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Proposed CR to TS 25.101 on subclause 7.8 RX Intermodulation		
Source:	⌘ RAN WG4		
Work item code:	⌘	Date:	⌘ 13.11.2000
Category:	⌘ F	Release:	⌘ R99
Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	

Reason for change:	⌘ The offset of interference frequency in RX intermodulation should be specified not only upper side but also lower side.
Summary of change:	⌘ To correct the parameter of interference frequency offset.
Consequences if not approved:	⌘ Requirement will be imperfect.

Clauses affected:	⌘ 7.8		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

7.8 Intermodulation characteristics

Third and higher order mixing of the two interfering RF signals can produce an interfering signal in the band of the desired channel. Intermodulation response rejection is a measure of the capability of the receiver to receive a wanted signal on its assigned channel frequency in the presence of two or more interfering signals which have a specific frequency relationship to the wanted signal.

7.8.1 Minimum requirement

The BER shall not exceed 0.001 for the parameters specified in Table 7.9.

Table 7.9: Receive intermodulation characteristics

Parameter	Unit	Level	
DPCH_Ec	dBm/3.84 MHz	-114	
\hat{I}_{or}	dBm/3.84 MHz	-103.7	
I_{ouw1} (CW)	dBm	-46	
I_{ouw2} (modulated)	dBm/3.84 MHz	-46	
F_{uw1} (offset)	MHz	10	-10
F_{uw2} (offset)	MHz	20	-20

Note: I_{ouw2} (modulated) consist of common channels and 16 dedicated data channel. The channelization codes for data channels are chosen optimally to reduce peak to average ratio (PAR). All dedicated channels user data is uncorrelated to each other.

CHANGE REQUEST

⌘ **25.101 CR 80** ⌘ rev **-** ⌘ Current version: **3.4.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘	Corrections to DL compressed mode tests in TS 25.101	
Source:	⌘	RAN WG4	
Work item code:	⌘		Date: ⌘ 2000-11-02
Category:	⌘	F	Release: ⌘ R99
		Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘	- Current values in compressed mode tests were based on slightly incorrect assumptions of the outer loop behaviour. - It is time to remove square brackets from test 3 and 4.	
Summary of change:	⌘	- DPCH_Ec/Ior value in Test 3 has been changed to -15.4 dB - Square brackets have been removed from test 3 and 4	
Consequences if not approved:	⌘		

Clauses affected:	⌘	8.9	
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input checked="" type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘ 34.121
Other comments:	⌘		

8.9 Downlink compressed mode

Downlink compressed mode is used to create gaps in the downlink transmission, to allow the UE to make measurements on other frequencies.

8.9.1 Single link performance

The receiver single link performance of the Dedicated Traffic Channel (DCH) in compressed mode is determined by the Block Error Ratio (BLER) and transmitted DPCH_Ec/I_{or} power in the downlink.

The compressed mode parameters are given in clause A.5. Tests 1 and 2 are using Set 1 compressed mode pattern parameters from Table A.21 in clause A.5 while tests 3 and 4 are using Set 2 compressed mode patterns from the same table.

8.9.1.1 Minimum requirements

For the parameters specified in Table 8.35 the downlink $\frac{DPCH_Ec}{I_{or}}$ power measured values, which are averaged over one slot, shall be below the specified value in Table 8.36 more than 90% of the time. The measured quality on DTCH shall be as required in Table 8.36.

Downlink power control is ON during the test. Uplink TPC commands shall be error free. System simulator shall increase the transmitted power during compressed frames by the same amount that UE is expected to increase its SIR target during those frames.

Table 8.35: Test parameter for downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
Delta SIR1	dB	0		0	[3]
Delta SIR after1	dB	0		0	[3]
Delta SIR2	dB	0	0	0	0
Delta SIR after2	dB	0	0	0	0
\hat{I}_{or}/I_{oc}	dB	9			
I_{oc}	dBm/3.84 MHz	-60			
Information Data Rate	kbps	12.2			
Propagation condition		Case 2			
Target quality value on DTCH	BLER	0.01			
Maximum_DL_Power	dB	7			
Minimum_DL_Power	dB	-18			
Limited_Power_Raise_Used	-	"Not used"			

Table 8.36: Requirements in downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
$\frac{DPCH_E_c}{I_{or}}$	dB			[-15.45]	No requirements
Measured quality of compressed and recovery frames	BLER			No requirements	<0.001
Measured quality on DTCH	BLER	0.01 ± 30 %			

CHANGE REQUEST

⌘ **25.101 CR 81** ⌘ rev **-** ⌘ Current version: **3.4.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction to DL 384 kbps and BTFD measurement channels		
Source:	⌘ RAN WG4		
Work item code:	⌘	Date:	⌘ 2000-11-02
Category:	⌘ F	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ - Slot Format number and power offsets PO1, PO2 and PO3 are currently unspecified for 384 kbps and BTFD measurement channels.
Summary of change:	⌘ Slot Format is 15 for 384 kbps measurement channel and 8 for BTFD measurement channel. Power offsets PO1, PO2 and PO3 are zero for both measurement channels.
Consequences if not approved:	⌘ Possible misinterpretation by TSG T1

Clauses affected:	⌘ A.3.4, A.4		
Other specs affected:	<input type="checkbox"/> Other core specifications <input checked="" type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	34.121
Other comments:	⌘		

A.3.4 DL reference measurement channel (384 kbps)

The parameters for the DL measurement channel for 384 kbps are specified in Table A.17 and Table A.18. The channel coding is shown for information in Figure A.8

Table A.17: DL reference measurement channel, physical parameters (384 kbps)

Parameter	Unit	Level
Information bit rate	kbps	384
DPCH	ksps	480
Slot Format #i	-	15
TFCI		On
Power offsets PO1, PO2 and PO3	dB	0
Puncturing	%	22

Table A.18: DL reference measurement channel, transport channel parameters (384 kbps)

Parameter	DTCH	DCCH
Transport Channel Number	1	2
Transport Block Size	3840	100
Transport Block Set Size	3840	100
Transmission Time Interval	10 ms	40 ms
Type of Error Protection	Turbo Coding	Convolution Coding
Coding Rate	1/3	1/3
Rate Matching attribute	256	256
Size of CRC	16	12
Position of TrCH in radio frame	fixed	Fixed

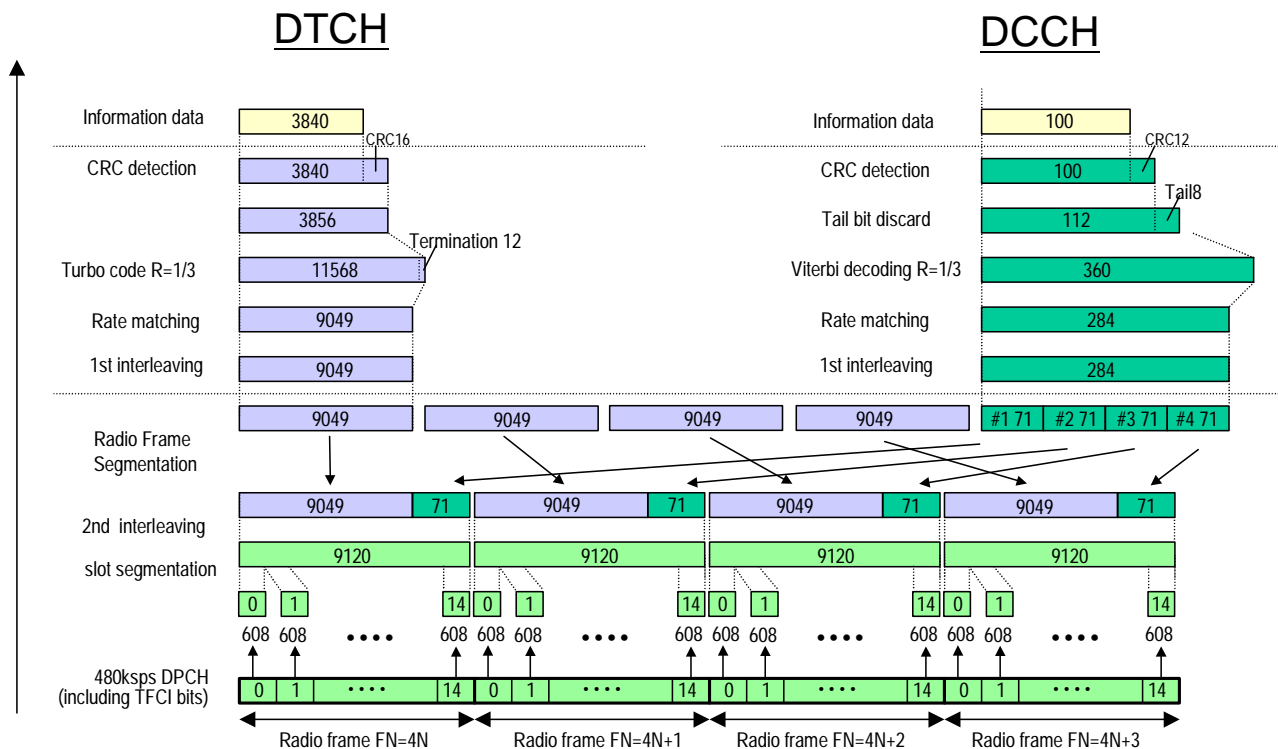


Figure A.8 (Informative): Channel coding of DL reference measurement channel (384 kbps)

Figure A.9 (Informative): Channel coding of DL reference measurement channel for BTFD (Rate 1)

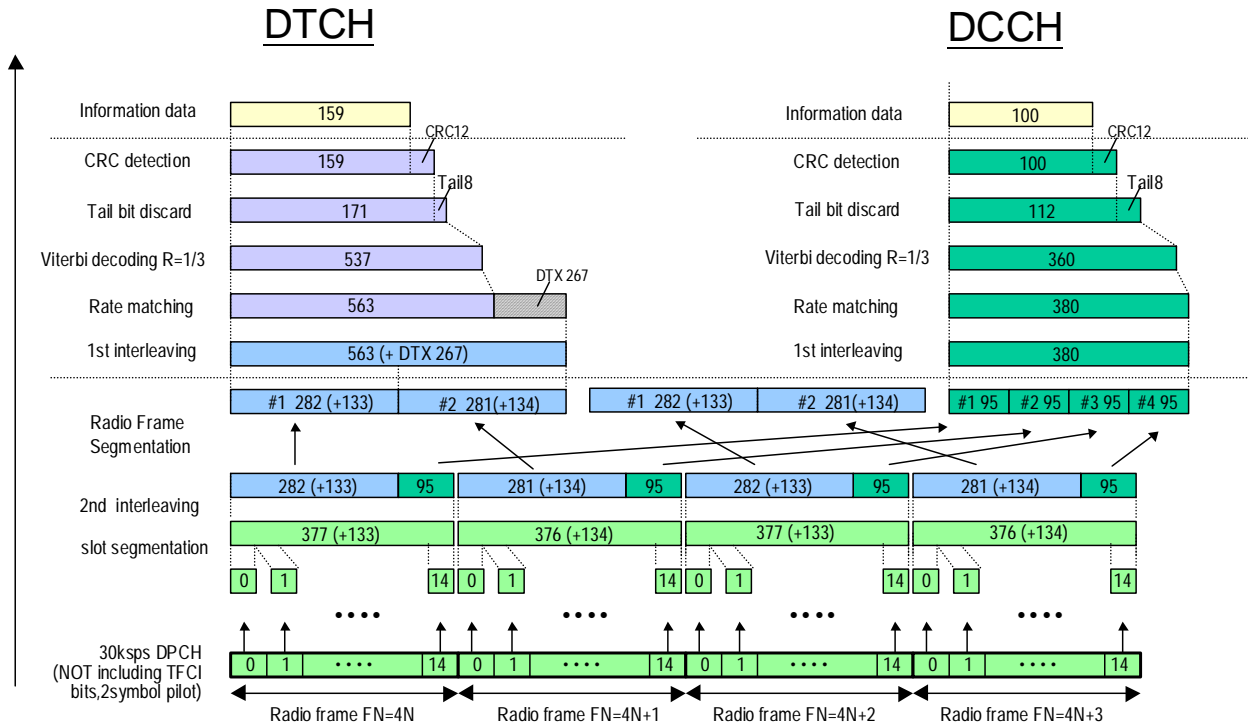


Figure A.10 (Informative): Channel coding of DL reference measurement channel for BTFD (Rate 2)

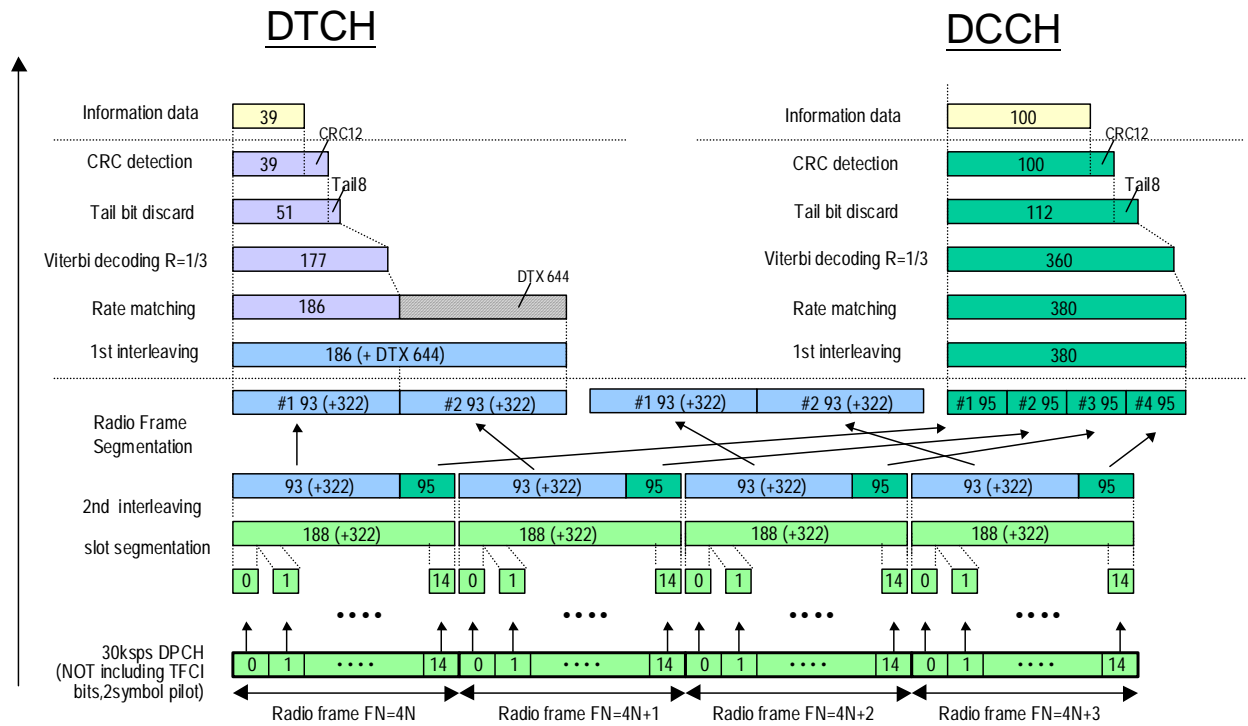


Figure A.11 (Informative): Channel coding of DL reference measurement channel for BTFD (Rate 3)

CHANGE REQUEST

⌘ **25.101 CR 82** ⌘ rev **-** ⌘ Current vers **3.4.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘	Compressed mode, proposal for specification	
Source:	⌘	RAN WG4	
Work item code:	⌘		Date: ⌘ 2000-11-10
Category:	⌘	F	Release: ⌘ R99
		<i>Use <u>one</u> of the following categories:</i> F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)	<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
Detailed explanations of the above categories can be found in 3GPP TR 21.900.			

Reason for change:	⌘	Requirements on compressed mode performance shall be included	
Summary of change:	⌘	Addition of values for the performance requirements	
Consequences if not approved:	⌘	There will not be any performance requirements on the UE when in compressed mode by spreading factor reduction	

Clauses affected:	⌘	8.9.1	
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘		

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.9 Downlink compressed mode

Downlink compressed mode is used to create gaps in the downlink transmission, to allow the UE to make measurements on other frequencies.

8.9.1 Single link performance

The receiver single link performance of the Dedicated Traffic Channel (DCH) in compressed mode is determined by the Block Error Ratio (BLER) and transmitted DPCH_Ec/I_{or} power in the downlink.

The compressed mode parameters are given in clause A.5. Tests 1 and 2 are using Set 1 compressed mode pattern parameters from Table A.21 in clause A.5 while tests 3 and 4 are using Set 2 compressed mode patterns from the same table.

8.9.1.1 Minimum requirements

For the parameters specified in Table 8.35 the downlink $\frac{DPCH_Ec}{I_{or}}$ power measured values, which are averaged over one slot, shall be below the specified value in Table 8.36 more than 90% of the time. The measured quality on DTCH shall be as required in Table 8.36.

Downlink power control is ON during the test. Uplink TPC commands shall be error free. System simulator shall increase the transmitted power during compressed frames by the same amount that UE is expected to increase its SIR target during those frames.

Table 8.35: Test parameter for downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
Delta SIR1	dB	0	[3]	0	[3]
Delta SIR after1	dB	0	[3]	0	[3]
Delta SIR2	dB	0	0	0	0
Delta SIR after2	dB	0	0	0	0
\hat{I}_{or}/I_{oc}	dB	9			
I_{oc}	dBm/3.84 MHz	-60			
Information Data Rate	kbps	12.2			
Propagation condition		Case 2			
Target quality value on DTCH	BLER	0.01			
Maximum_DL_Power	dB	7			
Minimum_DL_Power	dB	-18			
Limited_Power_Raise_Used	-	"Not used"			

Table 8.36: Requirements in downlink compressed mode

Parameter	Unit	Test 1	Test 2	Test 3	Test 4
$\frac{DPCH_E_c}{I_{or}}$	dB	<u>[-14.8]</u>	<u>No requirements</u>	[-15.5]	No requirements
Measured quality of compressed and recovery frames	BLER	<u>No requirements</u>	<u><0.001</u>	No requirements	<0.001
Measured quality on DTCH	BLER	0.01 ± 30 %			

CHANGE REQUEST

⌘ **25.101 CR 83** ⌘ rev **-** ⌘ - **3.4.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ RX spurious emissions		
Source:	⌘ RAN WG4		
Work item code:	⌘	Date:	⌘ 2000-11-08
Category:	⌘ F	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ Reason for measurement bandwidth 1 MHz instead of 100 kHz above 1 GHz: Harmonisation with 25.102 (UE, TDD), 25.141 (BS, FDD), 25.142 (BS TDD) and ITU-R SM.329. All those specifications and recommendations contain a measurement bandwidth of 1 MHz in this frequency range.
Summary of change:	⌘ Measurement bandwidth 1 MHz instead of 100 kHz above 1 GHz.
Consequences if not approved:	⌘ Unnecessary long test time

Clauses affected:	⌘ 7.9.1		
Other specs Affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	34.121
Other comments:	⌘		

7.9 Spurious emissions

The spurious emissions power is the power of emissions generated or amplified in a receiver that appear at the UE antenna connector.

7.9.1 Minimum requirement

The spurious emission shall be

- 1) Less than -60 dBm/3.84 MHz at the UE antenna connector, for frequencies with the UE receive band. In URA_PCH, Cell_PCH and Idle stage the requirements applies for the UE transmit band
- 2) Less than -57 dBm/100 kHz at the UE antenna connector, for frequencies band from 9 kHz to 1 GHz
- 3) 1) Less than -47 dBm/100 kHz at the UE antenna connector, for frequencies band from 1 GHz to 12.75 GHz

The power of any narrow band CW spurious emission shall not exceed the maximum level specified in Table 7.10 and Table 7.11

Table 7.10: General receiver spurious emission requirements

Frequency Band	Measurement Bandwidth	Maximum level	Note
$9\text{kHz} \leq f < 1\text{GHz}$	100 kHz	-57 dBm	
$1\text{GHz} \leq f \leq 12.75\text{GHz}$	1 MHz	-47 dBm	

Table 7.11: Additional receiver spurious emission requirements

Frequency Band	Measurement Bandwidth	Maximum level	Note
$1920\text{MHz} \leq f \leq 1980\text{MHz}$	3.84 MHz	-60 dBm	Mobile transmit band in URA_PCH, Cell_PCH and idle state
$2110\text{MHz} \leq f \leq 2170\text{MHz}$	3.84 MHz	-60 dBm	Mobile receive band

Sophia, France 13th - 17th November 2000

CR-Form-v3

CHANGE REQUEST⌘ **25.101 CR 84** ⌘ rev **-** ⌘ Current version: **3.4.1** ⌘For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.**Proposed change affects:** ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction for 25.101 concerning the channel number calculation		
Source:	⌘ RAN WG4		
Work item code:	⌘	Date:	⌘ 15.11.2000
Category:	⌘ F	Release:	⌘ R99
Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	

Reason for change:	⌘ Obvious error in the calculation formula for the channel number
Summary of change:	⌘ Deletion of the unit MHz
Consequences if not approved:	⌘ Incorrect channel number

Clauses affected:	⌘ 5.4.3
Other specs Affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/>
	<input type="checkbox"/> Test specifications <input type="checkbox"/>
	<input type="checkbox"/> O&M Specifications <input type="checkbox"/>
Other comments:	⌘

5.4 Channel arrangement

5.4.1 Channel spacing

The nominal channel spacing is 5 MHz, but this can be adjusted to optimize performance in a particular deployment scenario.

5.4.2 Channel raster

The channel raster is 200 kHz, which means that the center frequency must be an integer multiple of 200 kHz.

5.4.3 Channel number

The carrier frequency is designated by the UTRA Absolute Radio Frequency Channel Number (UARFCN). The value of the UARFCN in the IMT2000 band is defined as follows:

Table 5.1: UTRA Absolute Radio Frequency Channel Number

Uplink	$N_u = 5 \cdot (F_{\text{uplink}} \text{ MHz})$	$0.0 \text{ MHz} \leq F_{\text{uplink}} \leq 3276.6 \text{ MHz}$ where F_{uplink} is the uplink frequency in MHz
Downlink	$N_d = 5 \cdot (F_{\text{downlink}} \text{ MHz})$	$0.0 \text{ MHz} \leq F_{\text{downlink}} \leq 3276.6 \text{ MHz}$ where F_{downlink} is the downlink frequency in MHz

<u>Uplink</u>	<u>$N_u = 5 \cdot F_{\text{uplink}}$</u>	<u>$0.0 \text{ MHz} \leq F_{\text{uplink}} \leq 3276.6 \text{ MHz}$</u> <u>where F_{uplink} is the uplink frequency in MHz</u>
<u>Downlink</u>	<u>$N_d = 5 \cdot F_{\text{downlink}}$</u>	<u>$0.0 \text{ MHz} \leq F_{\text{downlink}} \leq 3276.6 \text{ MHz}$</u> <u>where F_{downlink} is the downlink frequency in MHz</u>

C.3.2 Measurement of Performance requirements

Table C.3 is applicable for measurements on the Performance requirements (clause 8), including subclause 7.4 (Maximum input level).

Table C.3: Downlink Physical Channels transmitted during a connection¹

Physical Channel	Power	NOTE
P-CPICH	P-CPICH_Ec/lor = -10 dB	Use of P-CPICH or S-CPICH as phase reference is specified for each requirement and is also set by higher layer signalling.
S-CPICH	S-CPICH_Ec/lor = -10 dB	When S-CPICH is the phase reference in a test condition, the phase of S-CPICH shall be 180 degrees offset from the phase of P-CPICH. When S-CPICH is not the phase reference, it is not transmitted.
P-CCPCH	P-CCPCH_Ec/lor = -12 dB	
SCH	SCH_Ec/lor = -12 dB	This power shall be divided equally between Primary and Secondary Synchronous channels
PICH	PICH_Ec/lor = -15 dB	
DPCH	Test dependent power	When S-CPICH is the phase reference in a test condition, the phase of DPCH shall be 180 degrees offset from the phase of P-CPICH.
OCNS	Necessary power so that total transmit power spectral density of Node B (lor) adds to one	<u>OCNS interference consists of 16 dedicated data channels. The channelization codes, level settings and timing offsets for data channels are chosen as specified for the 16 DPCH channels of Test Model 1 in TS 25.141 Table 6.2. All dedicated channels user data is uncorrelated to each other and the measurement channel during the BER/BLER measurement period.</u> OCNS interference consists of 16 dedicated data channels. The channelization codes for data channels are chosen optimally to reduce peak to average ratio (PAR). All dedicated channels user data is uncorrelated to each other.

C.3.3 Connection with open-loop transmit diversity mode

Table C.4 is applicable for measurements for subclause 8.6.1 (Demodulation of DCH in open loop transmit diversity mode)

Table C.4: Downlink Physical Channels transmitted during a connection¹

Physical Channel	Power	NOTE
P-CPICH (antenna 1)	P-CPICH_Ec1/lor = -13 dB	1. Total P-CPICH_Ec/lor = -10 dB
P-CPICH (antenna 2)	P-CPICH_Ec2/lor = -13 dB	
P-CCPCH (antenna 1)	P-CCPCH_Ec1/lor = -15 dB	1. STTD applied 2. Total P-CCPCH_Ec/lor = -12 dB
P-CCPCH (antenna 2)	P-CCPCH_Ec2/lor = -15 dB	
SCH (antenna 1 / 2)	SCH_Ec/lor = -12 dB	1. TSTD applied. 2. This power shall be divided equally between Primary and Secondary Synchronous channels
PICH (antenna 1)	PICH_Ec1/lor = -18 dB	1. STTD applied 2. Total PICH_Ec/lor = -15 dB
PICH (antenna 2)	PICH_Ec2/lor = -18 dB	
DPCH	Test dependent power	1. STTD applied 2. Total power from both antennas
OCNS	Necessary power so that total transmit power spectral density of Node B (lor) adds to one	1. This power shall be divided equally between antennas 2. <u>OCNS interference consists of 16 dedicated data channels. The channelization codes, level settings and timing offsets for data channels are chosen as specified for the 16 DPCH channels of Test Model 1 in TS 25.141 Table 6.2. All dedicated channels user data is uncorrelated to each other and the measurement channel during the BER/BLER measurement period.</u> OCNS interference consists of 16 dedicated data channels. The channelization codes for data channels are chosen optimally to reduce peak to average ratio (PAR). All dedicated channels user data is uncorrelated to each other.

C.3.4 Connection with closed loop transmit diversity mode

Table C.5 is applicable for measurements for subclause 8.6.2 (Demodulation of DCH in closed loop transmit diversity mode).

Table C.5: Downlink Physical Channels transmitted during a connection¹

Physical Channel	Power	NOTE
P-CPICH (antenna 1)	P-CPICH_Ec1/lor = -13 dB	1. Total P-CPICH_Ec/lor = -10 dB
P-CPICH (antenna 2)	P-CPICH_Ec2/lor = -13 dB	
P-CCPCH (antenna 1)	P-CCPCH_Ec1/lor = -15 dB	1. STTD applied
P-CCPCH (antenna 2)	P-CCPCH_Ec2/lor = -15 dB	1. STTD applied, 2. total P-CCPCH_Ec/lor = -12 dB
SCH (antenna 1 / 2)	SCH_Ec/lor = -12 dB	1. TSTD applied
PICH (antenna 1)	PICH_Ec1/lor = -18 dB	1. STTD applied
PICH (antenna 2)	PICH_Ec2/lor = -18 dB	2. STTD applied, total PICH_Ec/lor = -15 dB
DPCH	Test dependent power	1. Total power from both antennas
OCNS	Necessary power so that total transmit power spectral density of Node B (lor) adds to one	1. This power shall be divided equally between antennas 2. <u>OCNS interference consists of 16 dedicated data channels. The channelization codes, level settings and timing offsets for data channels are chosen as specified for the 16 DPCH channels of Test Model 1 in TS 25.141 Table 6.2. All dedicated channels user data is uncorrelated to each other and the measurement channel during the BER/BLER measurement period.</u> OCNS interference consists of 16 dedicated data channels. The channelization codes for data channels are chosen optimally to reduce peak to average ratio (PAR). All dedicated channels user data is uncorrelated to each other.