TSG RAN Meeting #25 **RP-040285**
Palm Springs, US, 7 - 9 September 2004

Title **CRs (Rel-5 and Rel-6 Category A) to TS25.123 for the correction of UTRA Carrier RSSI and other corrections**
Source **TSG RAN WG4**
Agenda Item **7.5.5**

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-040404	25.123	344		F	Rel-5	5.9.0	Correction to UTRA Carrier RSSI measurement and other corrections in test cases	LCRTDD-RF
R4-040405	25.123	345		A	Rel-6	6.2.0	Correction to UTRA Carrier RSSI measurement and other corrections in test cases	LCRTDD-RF

3GPP TSG RAN WG4 (Radio) Meeting #32 **R4-040404**

Prague, Czech Republic 16 - 20 August 2004

CR-Form-v7

CHANGE REQUEST

⌘ **25.123** **CR** **344** ⌘ **rev** ⌘ Current version: **5.9.0** ⌘

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Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Correction to UTRA Carrier RSSI measurement and other corrections in test cases
Source:	⌘	RAN WG4
Work item code:	⌘	LCRTDD-RF
Date:	⌘	30/08/2004
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(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 one 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)
Rel-6 (Release 6)

Reason for change:	⌘	The test cases in A.6A.1.2 specify power control on and at T2 the dedicated channel is removed, but then specify a fixed DPCH_Ec/Ior at T1 and T2. The value in table A.9.16A entitled “UTRA Carrier RSSI relative accuracy” is incorrect for relative accuracy requirement. Hence, the test requirement for relative accuracy is incorrect. OCNS level is missed in A.9.2.8.2 and A.9.2.11.
Summary of change:	⌘	DPCH_Ec/Ior is corrected in table A.6A.6 and A.6A.8. The test requirement is corrected for UTRA carrier RSSI relative accuracy. OCNS level is completed in A.9.2.8.2 and A.9.2.11. Isolated Impact Analyses: Only the test case values are changed. The changes do not affect a UE that fulfils the core requirements.
Consequences if not approved:	⌘	T1 might use wrong test requirements for UTRA Carrier RSSI relative measurements and therefore a UE that fulfills the core requirements does not necessarily pass the test case. And there are discrepancies in the test cases, which might cause T1 to test a UE incorrectly and therefore a UE fulfilling the requirements may not pass the tests.

Clauses affected:	⌘	A.6A.1.2, A.9.2.4.2, A.9.2.8.2, A.9.2.11

		Y	N			
Other specs affected:	⌘			Other core specifications	⌘	
		X		Test specifications		34.122
				O&M Specifications		
Other comments:	⌘	Equivalent CRs in other Releases: CR345 cat. A to 25.123 v6.2.0				

How to create CRs using this form:
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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.

A.6A.1.2 1.28 Mcps TDD Option

A.6A.1.2.1 Test Purpose and Environment

A.6A.1.2.1.1 Test 1

The purpose is to verify that the RRC connection re-establishment delay is within the specified limits. These tests will verify the requirements in section 6A.1.2.2.

The test parameters are given in table A.6A.5 and table A.6A.6 below. In the measurement control information it is indicated to the UE that periodic reporting shall be used. The test consists of 2 successive time periods, with a time duration of T1 and T2 respectively. At the start of time period T2, the dedicated channel is removed.

Table A.6A.5 General test parameters for RRC connection re-establishment delay, Test 1

Parameter	Unit	Value	Comment
DCH Parameters		DL Reference measurement channel 12.2 kbps	As specified in TS25.102, section A.2.2.2
Power Control		On	
Active cell, Initial condition		Cell 1	
Active cell, Final condition		Cell 2	
N313		20	
N315		1	
T313	Seconds	0	
T_{SI}	ms	1280	Time required for receiving all the relevant system information data according to the reception procedure and the RRC procedure delay of system information blocks defined in 25.331 for a UTRAN cell (ms). Note: Since 1280 ms is one of the typical values for repeating system information blocks, T_{SI} of 1280 ms could be increased by the RRC procedure delay in order to allow the SIB repetition period of 1280 ms
Monitored cell list size		24	Monitored set shall only include intra frequency neighbours
Cell 2			Included in monitored set
Reporting frequency	Seconds	4	
T1	s	10	
T2	s	6	

Table A.6A.6 Cell specific parameters for RRC connection re-establishment delay test, Test 1

Parameter	Unit	Cell 1				Cell 2			
Timeslot Number		0		5		0			
		T1	T2	T1	T2	T1	T2	T1	T2
UTRA RF Channel Number		Channel 1				Channel 1			
DPCH_Ec/Ior	dB	Not applicable		~~-3~~ Note 1	-infinity	Not applicable			
OCNS_Ec/Ior	dB	Note ~~1~~2		Note ~~1~~2		Note ~~1~~2			
PCCPCH_Ec/Ior	dB	-3				-3			
$\hat{I}_{or}/I_{oc}$	dB	[3]	-infinity	3	-infinity	6	6		
I_{oc}	dBm/ 1.28 MHz	-70							
PCCPCH_RSCP	dBm	-70	-infinity	Not applicable		-67	-67		
Propagation Condition		AWGN							

NOTE 1: The DPCH level is controlled by the power control loop.
NOTE ~~1~~2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}.

A.6A.1.2.1.2 Test 2

The test parameters are given in table A.6A.7 and table A.6A.8 below. In the measurement control information it is indicated to the UE that periodic reporting shall be used. The test consists of 2 successive time periods, with a time duration of T1 and T2 respectively. At the start of time period T2, the dedicated channel is removed.

Table A.6A.7 General test parameters for RRC connection re-establishment delay, Test 2

Parameter	Unit	Value	Comment
DCH Parameters		DL Reference measurement channel 12.2 kbps	As specified in TS25.102, section A.2.2.2
Power Control		On	
Active cell, Initial condition		Cell 1	Channel 1
Active cell, Final condition		Cell 2	Channel 2 or 3
N313		20	
N315		1	
T313	Seconds	0	
T_{SI}	ms	1280	Time required for receiving all the relevant system information data according to the reception procedure and the RRC procedure delay of system information blocks defined in 25.331 for a UTRAN cell (ms). Note: Since 1280 ms is one of the typical values for repeating system information blocks, T_{SI} of 1280 ms could be increased by the RRC procedure delay in order to allow the SIB repetition period of 1280 ms
Cells in the monitored set		24	
Channels in the monitored set		Channel 1, Channel 2, Channel 3	
Cell 2			Cell 2 is not included in the monitored set. Cell 2 is located on a different channel than cell 1.
Reporting frequency	Seconds	4	
T1	s	10	
T2	s	6	

Table A.6A.8: Cell specific parameters for RRC connection re-establishment delay test, Test 2

Parameter	Unit	Cell 1				Cell 2			
Timeslot Number		0		5		0			
		T1	T2	T1	T2	T1	T2		
UTRA RF Channel Number		Channel 1				Channel 2			
PCCPCH_Ec/Ior	dB	-3				-3			
DPCH_Ec/Ior	dB	Not applicable		~~-3~~ Note 1	-infinity	Not applicable			
OCNS_Ec/Ior	dB	Note ~~1~~2		Note ~~1~~2		Note ~~1~~2			
$\hat{I}_{or}/I_{oc}$	dB	3	-infinity	3	-infinity	6	6		
I_{oc}	dBm/ 1.28 MHz	-70							
PCCPCH_RSCP	dBm	-70	-infinity	Not applicable		-67	-67		
Propagation Condition		AWGN							

NOTE 1: The DPCH level is controlled by the power control loop.
NOTE ~~1~~2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}.

<NEXT CHANGED SECTION>

A.9.2.4 UTRA carrier RSSI

A.9.2.4.1 Test Purpose and Environment

The purpose of this test is to verify that the UTRA Carrier RSSI measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.1.4.

The DL DPCH shall be transmitted in timeslot 4 and the UL DPCH shall be transmitted in timeslot 2.

A.9.2.4.1.1 Inter frequency test parameters

Both UTRA Carrier RSSI absolute and relative accuracy requirements are tested by using test parameters in Table A.9.15.

Table A.9.15: UTRA Carrier RSSI Inter frequency tests parameters

	Test 1				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number		0	DwPTS	0	DwPTS
UTRA RF Channel Number		Channel 1		Channel 2	
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		5	
I_{oc}	dBm/1.28 MHz	-75.2		-75.2	
Io, Note 1	dBm/1.28 MHz	-69			
Propagation condition		AWGN			
	Test 2				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number		0	DwPTS	0	DwPTS
UTRA RF Channel Number		Channel 1		Channel 2	
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	7		2	
I_{oc}	dBm/1.28 MHz	-57.8		-54.1	
Io, Note 1	dBm/1.28 MHz	-50			
Propagation condition		AWGN			
	Test 3				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number		0	DwPTS	0	DwPTS
UTRA RF Channel Number		Channel 1		Channel 2	
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	3		0	
I_{oc}	dBm/1.28 MHz	-98.7		-97	
Io, Note 1	dBm/1.28 MHz	-94			
Propagation condition		AWGN			
NOTE 1: Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					

A.9.2.4.2 Test Requirements

The UTRA Carrier RSSI absolute and relative measurement accuracy shall meet the requirements in section 9.1.1.4.

~~The UTRA Carrier RSSI relative measurement accuracy shall meet the requirements in Table A.9.16 by taking into account the effect of thermal noise and noise added by the receiver.~~

~~Table A.9.16: UTRA Carrier RSSI relative accuracy~~

~~Parameter~~	~~Unit~~	~~Accuracy [dB]~~		~~Conditions~~
		~~Normal condition~~	~~Extreme condition~~	~~Io [dBm/1.28 MHz]~~
~~UTRA Carrier RSSI~~	~~dBm~~	~~-4…5.2~~	~~-7…8.2~~	~~-94…-87~~
	~~dBm~~	~~± 4~~	~~± 7~~	~~-87…-70~~
	~~dBm~~	~~± 6~~	~~± 9~~	~~-70…-50~~

The rate of correct measurements observed during repeated tests shall be at least 90%.

<NEXT CHANGED SECTION>

A.9.2.8.2 SFN-SFN observed time difference type 2

A.9.2.8.2.1 Test Purpose and Environment

The purpose of this test is to verify that the SFN-SFN observed time difference type 2 measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.1.8.

Cell 1 and cell 2 shall be synchronised and share the same frame timing. During the test, the timing difference between cell 1 and cell 2 can be set to valid values in the rang from –432 to 432 chip.

The DL DPCH shall be transmitted in timeslot 4 and the UL DPCH shall be transmitted in timeslot 2.

A.9.2.8.2.1.1 Intra frequency test parameters

In this case all cells are on the same frequency. The SFN-SFN observed time difference type 2 accuracy requirements in the intra-frequency case are tested by using test parameters in Table A.9.18A.

Table A.9.18A: SFN-SFN observed time difference type 2 Intra frequency test parameters

	Test 1				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 1	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		2	
I_{oc}	dBm/1.28 MHz	-76.6			
PCCPCH RSCP, Note 1	dBm	-74.6		-77.6	
Io, Note 1	dBm/1.28 MHz	-69			
Propagation condition		AWGN			
	Test 2				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 1	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	9		2	
I_{oc}	dBm/1.28 MHz	-60.2			
PCCPCH RSCP, Note 1	dBm	-54.2		-61.2	
Io, Note 1	dBm/1.28 MHz	-50			
Propagation condition		AWGN			
	Test 3				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 1	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		3	
I_{oc}	dBm/1.28 MHz	-101.9			
PCCPCH RSCP, Note 1	dBm	-99.9		-101.9	
Io, Note 1	dBm/1.28 MHz	-94			
Propagation condition		AWGN			
NOTE 1: PCCPCH RSCP and Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					

A.9.2.8.2.1.2 Inter frequency test parameters

In this case all cells in the test are on different frequencies. The SFN-SFN observed time difference type 2 accuracy requirements in the inter-frequency case are tested by using test parameters in Table A.9.18B.

Table A.9.18B: SFN-SFN observed time difference type 2 Inter frequency tests parameters

	Test 1				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 2	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		5	
I_{oc}	dBm/1.28 MHz	-75.2		-75.2	
PCCPCH RSCP, Note 1	dBm	-73.2		-73.2	
Io, Note 1	dBm/1.28 MHz	-69			
Propagation condition		AWGN			
	Test 2				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 2	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	7		2	
I_{oc}	dBm/1.28 MHz	-57.8		-54.1	
PCCPCH RSCP, Note 1	dBm	-53.8		-55.1	
Io, Note 1	dBm/1.28 MHz	-50			
Propagation condition		AWGN			
	Test 3				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 2	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	3		0	
I_{oc}	dBm/1.28 MHz	-98.7		-97	
PCCPCH RSCP, Note 1	dBm	-98.7		-100	
Io, Note 1	dBm/1.28 MHz	-94			
Propagation condition		AWGN			
NOTE 1: PCCPCH RSCP and Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					

<NEXT CHANGED SECTION>

A.9.2.11 UE transmitted power

A.9.2.11.1 Test purpose and Environment

The purpose of the test is to verify that the UE transmitted power measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.2.1.

The test parameters are given in Table A.9.21 and A.9.22 below. In the measurement control information it shall be indicated to the UE that periodic reporting of the UE transmitted power measurement shall be used.

The DL DPCH shall be transmitted in timeslot 4 and the UL DPCH shall be transmitted in timeslot 2.

Table A.9.21: General test parameters for UE transmitted power

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement Channel 12.2 kbps	As specified in TS 25.102 section A.2.2
Power Control		On	
Target quality value on DTCH	BLER	0.01	

Table A.9.22: Cell Specific parameters for UE transmitted power

Parameter	Unit	Cell 1	
Timeslot Number		0	DwPTS
UTRA RF Channel Number		Channel 1	
PCCPCH_Ec/Ior	dB	-3	
DwPCH_Ec/Ior	dB		0
OCNS_Ec/Ior	dB	-3	
$\hat{I}_{or}/I_{oc}$	dB	3	
I_{oc}	dBm/1.28 MHz	-70	
PCCPCH RSCP, Note 1	dBm	-70	
Propagation Condition		AWGN	
NOTE 1: PCCPCH RSCP level has been calculated from other parameters for information purposes. They are not settable parameters themselves.			

3GPP TSG RAN WG4 (Radio) Meeting #32 **R4-040405**

Prague, Czech Republic 16 - 20 August 2004

CR-Form-v7

CHANGE REQUEST

⌘ **25.123** **CR** **345** ⌘**rev** ⌘ Current version: **6.2.0** ⌘

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Title:	⌘	Correction to UTRA Carrier RSSI measurement and other corrections in test cases
Source:	⌘	RAN WG4
Work item code:	⌘	LCRTDD-RF
Date:	⌘	30/08/2004
Category:	⌘	**A**
Release:	⌘	Rel-6

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R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*

Reason for change:	⌘	The test cases in A.6A.1.2 specify power control on and at T2 the dedicated channel is removed, but then specify a fixed DPCH_Ec/Ior at T1 and T2. The value in table A.9.16A entitled “UTRA Carrier RSSI relative accuracy” is incorrect for relative accuracy requirement. Hence, the test requirement for relative accuracy is incorrect. OCNS level is missed in A.9.2.8.2 and A.9.2.11.
Summary of change:	⌘	DPCH_Ec/Ior is corrected in table A.6A.6 and A.6A.8. The test requirement is corrected for UTRA carrier RSSI relative accuracy. OCNS level is completed in A.9.2.8.2 and A.9.2.11. Isolated Impact Analyses: Only the test case values are changed. The changes do not affect a UE that fulfils the core requirements.
Consequences if not approved:	⌘	T1 might use wrong test requirements for UTRA Carrier RSSI relative measurements and therefore a UE that fulfills the core requirements does not necessarily pass the test case. And there are discrepancies in the test cases, which might cause T1 to test a UE incorrectly and therefore a UE fulfilling the requirements may not pass the tests.

Clauses affected:	⌘	A.6A.1.2, A.9.2.4.2, A.9.2.8.2, A.9.2.11

		Y	N			
Other specs affected:	⌘			Other core specifications	⌘	
		X		Test specifications		34.122
				O&M Specifications		
Other comments:	⌘	Equivalent CRs in other Releases: CR344 cat. F to 25.123 v5.9.0				

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A.6A.1.2 1.28 Mcps TDD Option

A.6A.1.2.1 Test Purpose and Environment

A.6A.1.2.1.1 Test 1

The purpose is to verify that the RRC connection re-establishment delay is within the specified limits. These tests will verify the requirements in section 6A.1.2.2.

The test parameters are given in table A.6A.5 and table A.6A.6 below. In the measurement control information it is indicated to the UE that periodic reporting shall be used. The test consists of 2 successive time periods, with a time duration of T1 and T2 respectively. At the start of time period T2, the dedicated channel is removed.

Table A.6A.5 General test parameters for RRC connection re-establishment delay, Test 1

Parameter	Unit	Value	Comment
DCH Parameters		DL Reference measurement channel 12.2 kbps	As specified in TS25.102, section A.2.2.2
Power Control		On	
Active cell, Initial condition		Cell 1	
Active cell, Final condition		Cell 2	
N313		20	
N315		1	
T313	Seconds	0	
T_{SI}	ms	1280	Time required for receiving all the relevant system information data according to the reception procedure and the RRC procedure delay of system information blocks defined in 25.331 for a UTRAN cell (ms). Note: Since 1280 ms is one of the typical values for repeating system information blocks, T_{SI} of 1280 ms could be increased by the RRC procedure delay in order to allow the SIB repetition period of 1280 ms
Monitored cell list size		24	Monitored set shall only include intra frequency neighbours
Cell 2			Included in monitored set
Reporting frequency	Seconds	4	
T1	s	10	
T2	s	6	

Table A.6A.6 Cell specific parameters for RRC connection re-establishment delay test, Test 1

Parameter	Unit	Cell 1				Cell 2			
Timeslot Number		0		5		0			
		T1	T2	T1	T2	T1	T2	T1	T2
UTRA RF Channel Number		Channel 1				Channel 1			
DPCH_Ec/Ior	dB	Not applicable		~~-3~~ Note 1	-infinity	Not applicable			
OCNS_Ec/Ior	dB	Note ~~1~~2		Note ~~1~~2		Note ~~1~~2			
PCCPCH_Ec/Ior	dB	-3				-3			
$\hat{I}_{or}/I_{oc}$	dB	[3]	-infinity	3	-infinity	6	6		
I_{oc}	dBm/ 1.28 MHz	-70							
PCCPCH_RSCP	dBm	-70	-infinity	Not applicable		-67	-67		
Propagation Condition		AWGN							

NOTE 1: The DPCH level is controlled by the power control loop.
NOTE ~~1~~2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}.

A.6A.1.2.1.2 Test 2

The test parameters are given in table A.6A.7 and table A.6A.8 below. In the measurement control information it is indicated to the UE that periodic reporting shall be used. The test consists of 2 successive time periods, with a time duration of T1 and T2 respectively. At the start of time period T2, the dedicated channel is removed.

Table A.6A.7 General test parameters for RRC connection re-establishment delay, Test 2

Parameter	Unit	Value	Comment
DCH Parameters		DL Reference measurement channel 12.2 kbps	As specified in TS25.102, section A.2.2.2
Power Control		On	
Active cell, Initial condition		Cell 1	Channel 1
Active cell, Final condition		Cell 2	Channel 2 or 3
N313		20	
N315		1	
T313	Seconds	0	
T_{SI}	ms	1280	Time required for receiving all the relevant system information data according to the reception procedure and the RRC procedure delay of system information blocks defined in 25.331 for a UTRAN cell (ms). Note: Since 1280 ms is one of the typical values for repeating system information blocks, T_{SI} of 1280 ms could be increased by the RRC procedure delay in order to allow the SIB repetition period of 1280 ms
Cells in the monitored set		24	
Channels in the monitored set		Channel 1, Channel 2, Channel 3	
Cell 2			Cell 2 is not included in the monitored set. Cell 2 is located on a different channel than cell 1.
Reporting frequency	Seconds	4	
T1	s	10	
T2	s	6	

Table A.6A.8: Cell specific parameters for RRC connection re-establishment delay test, Test 2

Parameter	Unit	Cell 1				Cell 2			
Timeslot Number		0		5		0			
		T1	T2	T1	T2	T1	T2		
UTRA RF Channel Number		Channel 1				Channel 2			
PCCPCH_Ec/Ior	dB	-3				-3			
DPCH_Ec/Ior	dB	Not applicable		~~-3~~Note 1	-infinity	Not applicable			
OCNS_Ec/Ior	dB	Note ~~1~~2		Note ~~1~~2		Note ~~1~~2			
$\hat{I}_{or}/I_{oc}$	dB	3	-infinity	3	-infinity	6	6		
I_{oc}	dBm/ 1.28 MHz	-70							
PCCPCH_RSCP	dBm	-70	-infinity	Not applicable		-67	-67		
Propagation Condition		AWGN							

NOTE 1: The DPCH level is controlled by the power control loop.
NOTE ~~1~~2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}.

<NEXT CHANGED SECTION>

A.9.2.4 UTRA carrier RSSI

A.9.2.4.1 Test Purpose and Environment

The purpose of this test is to verify that the UTRA Carrier RSSI measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.1.4.

The DL DPCH shall be transmitted in timeslot 4 and the UL DPCH shall be transmitted in timeslot 2.

A.9.2.4.1.1 Inter frequency test parameters

Both UTRA Carrier RSSI absolute and relative accuracy requirements are tested by using test parameters in Table A.9.15.

Table A.9.15: UTRA Carrier RSSI Inter frequency tests parameters

		Test 1			
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number		0	DwPTS	0	DwPTS
UTRA RF Channel Number		Channel 1		Channel 2	
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		5	
I_{oc}	dBm/1.28 MHz	-75.2		-75.2	
Io, Note 1	dBm/1.28 MHz	-69			
Propagation condition		AWGN			
		Test 2			
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number		0	DwPTS	0	DwPTS
UTRA RF Channel Number		Channel 1		Channel 2	
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	7		2	
I_{oc}	dBm/1.28 MHz	-57.8		-54.1	
Io, Note 1	dBm/1.28 MHz	-50			
Propagation condition		AWGN			
		Test 3			
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number		0	DwPTS	0	DwPTS
UTRA RF Channel Number		Channel 1		Channel 2	
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	3		0	
I_{oc}	dBm/1.28 MHz	-98.7		-97	
Io, Note 1	dBm/1.28 MHz	-94			
Propagation condition		AWGN			
NOTE 1: Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					

A.9.2.4.2 Test Requirements

The UTRA Carrier RSSI absolute and relative measurement accuracy shall meet the requirements in section 9.1.1.4.

~~The UTRA Carrier RSSI relative measurement accuracy shall meet the requirements in Table A.9.16 by taking into account the effect of thermal noise and noise added by the receiver.~~

~~Table A.9.16: UTRA Carrier RSSI relative accuracy~~

~~Parameter~~	~~Unit~~	~~Accuracy [dB]~~		~~Conditions~~
		~~Normal condition~~	~~Extreme condition~~	~~Io [dBm/1.28 MHz]~~
~~UTRA Carrier RSSI~~	~~dBm~~	~~-4…5.2~~	~~-7…8.2~~	~~-94…-87~~
	~~dBm~~	~~± 4~~	~~± 7~~	~~-87…-70~~
	~~dBm~~	~~± 6~~	~~± 9~~	~~-70…-50~~

The rate of correct measurements observed during repeated tests shall be at least 90%.

<NEXT CHANGED SECTION>

A.9.2.8.2 SFN-SFN observed time difference type 2

A.9.2.8.2.1 Test Purpose and Environment

The purpose of this test is to verify that the SFN-SFN observed time difference type 2 measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.1.8.

Cell 1 and cell 2 shall be synchronised and share the same frame timing. During the test, the timing difference between cell 1 and cell 2 can be set to valid values in the rang from –432 to 432 chip.

The DL DPCH shall be transmitted in timeslot 4 and the UL DPCH shall be transmitted in timeslot 2.

A.9.2.8.2.1.1 Intra frequency test parameters

In this case all cells are on the same frequency. The SFN-SFN observed time difference type 2 accuracy requirements in the intra-frequency case are tested by using test parameters in Table A.9.18A.

Table A.9.18A: SFN-SFN observed time difference type 2 Intra frequency test parameters

	Test 1				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 1	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		2	
I_{oc}	dBm/1.28 MHz	-76.6			
PCCPCH RSCP, Note 1	dBm	-74.6		-77.6	
Io, Note 1	dBm/1.28 MHz	-69			
Propagation condition		AWGN			
	Test 2				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 1	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	9		2	
I_{oc}	dBm/1.28 MHz	-60.2			
PCCPCH RSCP, Note 1	dBm	-54.2		-61.2	
Io, Note 1	dBm/1.28 MHz	-50			
Propagation condition		AWGN			
	Test 3				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 1	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		3	
I_{oc}	dBm/1.28 MHz	-101.9			
PCCPCH RSCP, Note 1	dBm	-99.9		-101.9	
Io, Note 1	dBm/1.28 MHz	-94			
Propagation condition		AWGN			
NOTE 1: PCCPCH RSCP and Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					

A.9.2.8.2.1.2 Inter frequency test parameters

In this case all cells in the test are on different frequencies. The SFN-SFN observed time difference type 2 accuracy requirements in the inter-frequency case are tested by using test parameters in Table A.9.18B.

Table A.9.18B: SFN-SFN observed time difference type 2 Inter frequency tests parameters

	Test 1				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 2	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	5		5	
I_{oc}	dBm/1.28 MHz	-75.2		-75.2	
PCCPCH RSCP, Note 1	dBm	-73.2		-73.2	
Io, Note 1	dBm/1.28 MHz	-69			
Propagation condition		AWGN			
	Test 2				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 2	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	7		2	
I_{oc}	dBm/1.28 MHz	-57.8		-54.1	
PCCPCH RSCP, Note 1	dBm	-53.8		-55.1	
Io, Note 1	dBm/1.28 MHz	-50			
Propagation condition		AWGN			
	Test 3				
Parameter	**Unit**	**Cell 1**		**Cell 2**	
Timeslot Number UTRA RF Channel Number		0 Channel 1	DwPTS	0 Channel 2	DwPTS
PCCPCH_Ec/Ior	dB	-3		-3	
DwPCH_Ec/Ior	dB		0		0
OCNS_Ec/Ior	dB	-3		-3	
$\hat{I}_{or}/I_{oc}$	dB	3		0	
I_{oc}	dBm/1.28 MHz	-98.7		-97	
PCCPCH RSCP, Note 1	dBm	-98.7		-100	
Io, Note 1	dBm/1.28 MHz	-94			
Propagation condition		AWGN			
NOTE 1: PCCPCH RSCP and Io levels have been calculated from other parameters for information purposes. They are not settable parameters themselves.					

<NEXT CHANGED SECTION>

A.9.2.11 UE transmitted power

A.9.2.11.1 Test purpose and Environment

The purpose of the test is to verify that the UE transmitted power measurement accuracy is within the specified limits. This test will verify the requirements in section 9.1.2.1.

The test parameters are given in Table A.9.21 and A.9.22 below. In the measurement control information it shall be indicated to the UE that periodic reporting of the UE transmitted power measurement shall be used.

The DL DPCH shall be transmitted in timeslot 4 and the UL DPCH shall be transmitted in timeslot 2.

Table A.9.21: General test parameters for UE transmitted power

Parameter	Unit	Value	Comment
DCH parameters		DL Reference Measurement Channel 12.2 kbps	As specified in TS 25.102 section A.2.2
Power Control		On	
Target quality value on DTCH	BLER	0.01	

Table A.9.22: Cell Specific parameters for UE transmitted power

Parameter	Unit	Cell 1	
Timeslot Number		0	DwPTS
UTRA RF Channel Number		Channel 1	
PCCPCH_Ec/Ior	dB	-3	
DwPCH_Ec/Ior	dB		0
OCNS_Ec/Ior	dB	-3	
$\hat{I}_{or}/I_{oc}$	dB	3	
I_{oc}	dBm/1.28 MHz	-70	
PCCPCH RSCP, Note 1	dBm	-70	
Propagation Condition		AWGN	
NOTE 1: PCCPCH RSCP level has been calculated from other parameters for information purposes. They are not settable parameters themselves.			