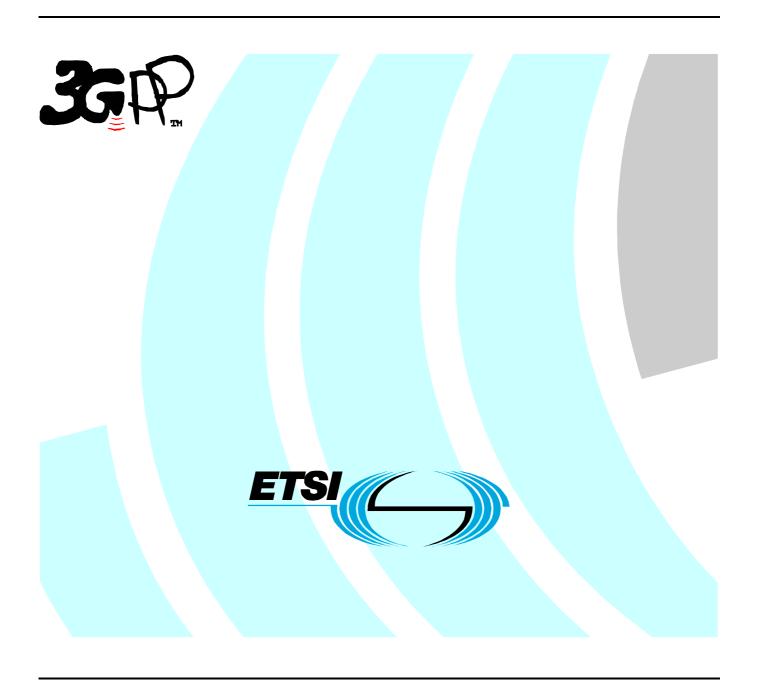# ETSI TS 134 121 V3.14.0 (2003-09)

Technical Specification

Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD) (3GPP TS 34.121 version 3.14.0 Release 1999)

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Contents

Foreword

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1 Scope

The present document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements in FDD mode.

2 References, Definitions and Technical Content

3GPP TS 34.121 Version 5 covers all Release 99 aspects.

Annex A (informative): Change history

T Meeting	Doc-1st-Level	CR	Rev	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
TP-07				Approval of the specification		2.0.0	3.0.0	
				No change: replaces invalid zip file on server		3.0.0	3.0.1	
TP-08	TP-000090	001		Editorial corrections to clauses 2, 3, 4 and 5.1	D	3.0.1	3.1.0	T1-000059
TP-08	TP-000090	002		Modifications to clause 5.4 "Output Power Dynamics in the Uplink"	C	3.0.1	3.1.0	T1-000060
TP-08	TP-000090	003		Out-of-synchronisation handling of the UE	B	3.0.1	3.1.0	T1-000061
TP-08	TP-000090	004		Modifications to clauses 5.8, 5.9, 5.10 and 5.11	D	3.0.1	3.1.0	T1-000062
TP-08	TP-000090	005		Modifications to Chapter 6 "Receiver Characteristics"	F	3.0.1	3.1.0	T1-000063
TP-08	TP-000090	006		Modifications to Annex D, Annex E, Annex G and Annex H	F	3.0.1	3.1.0	T1-000067
TP-08	TP-000090	008		Modifications to clauses 5.5, 5.6 and 5.7	F	3.0.1	3.1.0	T1-000069
TP-08	TP-000090	009		Modifications to Chapter 7 "Performance requirements"	F	3.0.1	3.1.0	T1-000070
TP-08	TP-000090	010		Modifications to test power control in downlink	F	3.0.1	3.1.0	T1-000071
TP-08	TP-000090	011		Modifications to clause 5.13 "Transmit Modulation"	F	3.0.1	3.1.0	T1-000072
TP-08	TP-000090	012		Modifications to test for inner loop power control in the uplink	F	3.0.1	3.1.0	T1-000073
TP-08	TP-000090	013		Revision of Annex B: Global in-channel Tx test	F	3.0.1	3.1.0	T1-000074
TP-08	TP-000090	014		Blind transport format detection	B	3.0.1	3.1.0	T1-000075
TP-08	TP-000090	015		Removal of Annex I "Open Items"	D	3.0.1	3.1.0	T1-000077
TP-08	TP-000090	016		Modifications to Chapter 8 "Requirements for support of RRM"	C	3.0.1	3.1.0	T1-000117
TP-08	TP-000090	017		Modifications to Annex C "Measurement channels"	F	3.0.1	3.1.0	T1-000118
TP-08	TP-000090	018		Idle mode test cases (test of performance requirements)	F	3.0.1	3.1.0	T1-000119
TP-09	TP-000163	019		Editorial corrections for References and Frequency Stability (2, 5.2, 5.3)	F	3.1.0	3.2.0	T1-000131
TP-09	TP-000163	020		Corrections for Output Power Dynamics in the Uplink (5.4)	F	3.1.0	3.2.0	T1-000132
TP-09	TP-000163	021		Transients for uplink inner loop power control (5.4.2.4.2)	F	3.1.0	3.2.0	T1-000133
TP-09	TP-000163	022		Transmit On/Off power (5.5.2.4.2)	F	3.1.0	3.2.0	T1-000134
TP-09	TP-000163	023		Change of TFC (5.6.4.2)	F	3.1.0	3.2.0	T1-000135
TP-09	TP-000163	024		Clarification of the definition on Peak Code Domain Error (5.13.2.1)	F	3.1.0	3.2.0	T1-000139
TP-09	TP-000163	025		UE interfering signal definition (6.3, 6.4, 6.5, 6.7)	F	3.1.0	3.2.0	T1-000140
TP-09	TP-000163	026		Performance requirements (7.1, 7.2, 7.3, 7.4, 7.5)	F	3.1.0	3.2.0	T1-000143
TP-09	TP-000163	027		CR on clause 7.6 and 7.7 in TS34.121 (7.6, 7.7)	F	3.1.0	3.2.0	T1-000144
TP-09	TP-000163	028		Performance requirements (7.9, 7.10, 7.11)	F	3.1.0	3.2.0	T1-000146
TP-09	TP-000163	029		Corrections for Annex D (Annex-D)	F	3.1.0	3.2.0	T1-000147
TP-09	TP-000163	030		Corrections for Annex E (Annex-E)	F	3.1.0	3.2.0	T1-000148
TP-09	TP-000163	031		Corrections for Transmit ON/OFF Power, Change of TFC and Power setting in uplink compressed mode (5.5, 5.6, 5.7)	F	3.1.0	3.2.0	T1-000149
TP-09	TP-000163	032		Corrections for power setting in uplink compressed mode (5.7)	F	3.1.0	3.2.0	T1-000136
TP-09	TP-000163	033		CR for subclause 7.8: Power control in downlink (7.8)	B	3.1.0	3.2.0	T1-000145
TP-09	TP-000163	034		Corrections to clause 5.8, 5.9, 5.10, 5.11 and 5.12	F	3.1.0	3.2.0	T1-000137
TP-09	TP-000163	035		Corrections to EVM and PCDE formulae (B.2.7.1, B.2.7.2)	F	3.1.0	3.2.0	T1-000138
TP-09	TP-000163	036		New initial conditions for Spurious emission test case (6.8.4.1)	F	3.1.0	3.2.0	T1-000141
TP-09	TP-000163	037		C.4.1 UL reference measurement channel for BTFD performance requirement (C.4.1)	F	3.1.0	3.2.0	T1-000142
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TP-10	TP-000216	042		Handling of measurement uncertainties in UE conformance testing (FDD)	F	3.2.0	3.3.0	T1-000250
TP-10	TP-000216	043		Update of Idle mode test cases	F	3.2.0	3.3.0	T1-000252
TP-10	TP-000216	044		UE emission mask measurement filter definition correction	F	3.2.0	3.3.0	T1-000254
TP-10	TP-000216	045		New structure of TS 34.121	F	3.2.0	3.3.0	T1-000255
TP-10	TP-000216	046		Test for combining TPC commands in soft handover	F	3.2.0	3.3.0	T1-000239
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TP-10	TP-000216	051		Correction of spurious emission measurement procedure	F	3.2.0	3.3.0	T1-000245
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TP-10	TP-000216	053		Clarification of test procedure and test requirement for receiver blocking and spurious response.	F	3.2.0	3.3.0	T1-000248
TP-10	TP-000216	054		Subclause 7.8 Power control in downlink	F	3.2.0	3.3.0	T1-000249
TP-10	TP-000216	055		Downlink compressed mode	F	3.2.0	3.3.0	T1-000251
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TP-11	TP-010019	057		CR on Test tolerance for 6.7 Intermodulation Characteristics	F	3.3.0	3.4.0	T1-010025
TP-11	TP-010019	058		CR on Test tolerance for 5.5.1 Test Tolerance for Transmit OFF power	F	3.3.0	3.4.0	T1-010027
TP-11	TP-010019	059		CR on Test tolerance for 6.6 Spurious Response	F	3.3.0	3.4.0	T1-010028
TP-11	TP-010019	060		CR on Test tolerance for 5.11 Test Tolerance for Transmit Spurious emissions	F	3.3.0	3.4.0	T1-010029
TP-11	TP-010019	061		CR on Test tolerance for Annex.F TS34.121	F	3.3.0	3.4.0	T1-010030
TP-11	TP-010019	062		CR on Test tolerance for 5.2 Maximum output power	F	3.3.0	3.4.0	T1-010031
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TP-11	TP-010019	070		CR on Test tolerance for 5.13.1 EVM	F	3.3.0	3.4.0	T1-010039
TP-11	TP-010019	071		CR on Test tolerance for 5.13.2 PCDE	F	3.3.0	3.4.0	T1-010040
TP-11	TP-010019	072		CR on Test tolerance for 5.4.4 Out of Synchronisation transmit power	F	3.3.0	3.4.0	T1-010041
TP-11	TP-010019	073		CR on Test tolerance for 6.4 ACS	F	3.3.0	3.4.0	T1-010042
TP-11	TP-010019	074		CR on Test tolerance for 6.8 RX Spurious Emissions	F	3.3.0	3.4.0	T1-010108
TP-11	TP-010019	075		CR on corrections to DL compressed mode	F	3.3.0	3.4.0	T1-010021
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TP-11	TP-010019	078		CR on RX spurious emissions	F	3.3.0	3.4.0	T1-010024
TP-11	TP-010019	079		CR on Editorial correction to channel number	D	3.3.0	3.4.0	T1-010026
TP-11	TP-010019	080		CR Correction of Annex-E and reference information to Annex E	F	3.3.0	3.4.0	T1-010043
TP-11	TP-010019	081		Editorial corrections	D	3.3.0	3.4.0	T1-010044
TP-11	TP-010076	082	1	Regional requirements on Test Tolerance	F	3.3.0	3.4.0	Presented directly to TP-11
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TP-12	TP-010119	089		Maintenance CR: Tx power for Rx characteristics measurement	F	3.4.0	3.5.0	T1-010145
TP-12	TP-010119	090		Maintenance CR: Correction of Definition of multi-code OCNS signal	F	3.4.0	3.5.0	T1-010146
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TP-12	TP-010119	095		Maintenance CR: romoval of annex.I	D	3.4.0	3.5.0	T1-010151
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TP-13	TP-010184	102		Proposal for measuring method of Random Access	F	3.5.0	3.6.0	T1-010362
TP-13	TP-010184	103		Modification to OCNS code channels to allow for 384 kbps allocation	F	3.5.0	3.6.0	T1-010339
TP-13	TP-010184	104		Clarification of AWGN definition	F	3.5.0	3.6.0	T1-010340
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TP-13	TP-010184	106		Core specification change for uplink inner loop power control	F	3.5.0	3.6.0	T1-010355
TP-13	TP-010184	107		Power Control mode in downlink	F	3.5.0	3.6.0	T1-010357
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TP-13	TP-010184	109		Test numbering of multi-path fading propagation tests	F	3.5.0	3.6.0	T1-010363
TP-13	TP-010184	110		Measurement of the ON/OFF power during the PRACH preamble	F	3.5.0	3.6.0	T1-010370
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TP-14	TP-010259	112		Improvement of test description: CPICH Ec/Io test case	F	3.6.0	3.7.0	T1-010490
TP-14	TP-010259	113		UTRA Carrier RSSI test case	F	3.6.0	3.7.0	T1-010491
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TP-16	TP-020139	151		Removal of "AFC On" reference from clause 5.3 Frequency Error test	F	3.8.0	3.9.0	T1-020227
TP-16	TP-020139	152		Correct reporting of neighbours in AWGN propagation conditions - inter frequency case	F	3.8.0	3.9.0	T1-020235
TP-16	TP-020139	153		Deletion of test case description 'Correct reporting of neighbours in Fading propagation conditions - Inter	F	3.8.0	3.9.0	T1-020236

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				frequency case				
TP-16	TP-020139	154		Correction of UE Tx Timing adjustment rate	F	3.8.0	3.9.0	T1-020237
TP-16	TP-020139	155		Correction of Units of side conditions and test parameters	F	3.8.0	3.9.0	T1-020238
TP-16	TP-020139	156		Structure of subclause 8	F	3.8.0	3.9.0	T1-020239
TP-16	TP-020139	157		Inter-system Handover from UTRAN FDD to GSM	F	3.8.0	3.9.0	T1-020240
TP-16	TP-020139	158		UTRAN to GSM Cell Re-Selection: Change of minimum requirements	F	3.8.0	3.9.0	T1-020241
TP-16	TP-020139	159		Cell reselection in idle mode: CR for testcase	F	3.8.0	3.9.0	T1-020242
TP-16	TP-020139	160		Cell reselection in idle mode: CR for annex F.4	F	3.8.0	3.9.0	T1-020243
TP-16	TP-020139	161		UTRAN to GSM cell reselection: CR for testcase	F	3.8.0	3.9.0	T1-020244
TP-16	TP-020139	162		UTRAN to GSM cell reselection: CR for annex F.4	F	3.8.0	3.9.0	T1-020245
TP-16	TP-020139	163		Test parameters of FDD/FDD Hard Handover test case	F	3.8.0	3.9.0	T1-020246
TP-16	TP-020139	164		Addition of details for RRM test cases in 8.3.7.1 and 8.3.7.2 (Cell Re-selection in URA_PCH)	F	3.8.0	3.9.0	T1-020247
TP-16	TP-020139	165		Addition of details for RRM test cases in 8.4.1 (RRC Re-establishment delay)	F	3.8.0	3.9.0	T1-020248
TP-16	TP-020139	166		Addition of details for RRM test case 8.3.1	F	3.8.0	3.9.0	T1-020249
TP-16	TP-020139	167		Addition of details for RRM test case 8.3.5.1	F	3.8.0	3.9.0	T1-020250
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TP-16	TP-020139	169		UE RX TX time difference: CR for testcase	F	3.8.0	3.9.0	T1-020252
TP-16	TP-020139	170		UE RX TX time difference: CR for annex	F	3.8.0	3.9.0	T1-020253
TP-16	TP-020139	171		Correction for SSDT test parameters and UL DPCCH slot format for performance	F	3.8.0	3.9.0	T1-020265
TP-16	TP-020139	172		Correction of UE FDD EVM definition	F	3.8.0	3.9.0	T1-020266
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TP-16	TP-020139	174		Modification to the test case for RX spurious emissions in TS34.121	F	3.8.0	3.9.0	T1-020268
TP-16	TP-020139	175		Editorial correction to Open Loop Power Control and Transmit ON/OFF Time mask in TS34.121	F	3.8.0	3.9.0	T1-020422
TP-16	TP-020139	176		Corrections to ACLR in TS34.121	F	3.8.0	3.9.0	T1-020423
TP-17	TP-020185	177	-	Addition of sub clause 8.7.6.2 – UE Rx-Tx time difference	F	3.9.0	3.10.0	T1-020453
TP-17	TP-020185	178	-	Addition of test case Cell reselection in CELL_PCH	F	3.9.0	3.10.0	T1-020454
TP-17	TP-020185	179	-	Addition of test case Transport format combination selection	F	3.9.0	3.10.0	T1-020455
TP-17	TP-020185	180	-	Maintenance of Re-selection and handover test cases	F	3.9.0	3.10.0	T1-020456
TP-17	TP-020185	181	-	Correction of test parameters of Handover to inter-frequency	F	3.9.0	3.10.0	T1-020457
TP-17	TP-020185	182	-	Addition of details for RRM test case 8.7.3C (UE transmitted	F	3.9.0	3.10.0	T1-020458
TP-17	TP-020185	183	-	Corrections to clause 6 and 7 for editorial errors	F	3.9.0	3.10.0	T1-020459
TP-17	TP-020185	184	-	Correction to clause 8.2.2 Cell Re-Selection	F	3.9.0	3.10.0	T1-020460
TP-17	TP-020185	185	-	Correction to clause 8.3.1 FDD/FDD Soft Handover	F	3.9.0	3.10.0	T1-020461
TP-17	TP-020185	187	-	Correction to clause 8.6.1.1 Event triggered reporting in	F	3.9.0	3.10.0	T1-020463
TP-17	TP-020185	188	-	Correction to clause 8.6.1.2 Event triggered reporting of	F	3.9.0	3.10.0	T1-020464
TP-17	TP-020185	189	-	Correction to clause 8.6.1.3 Event triggered reporting of two	F	3.9.0	3.10.0	T1-020465
TP-17	TP-020185	190	-	Correction to clause 8.6.1.4 Correct reporting of neighbours	F	3.9.0	3.10.0	T1-020466
TP-17	TP-020185	191	-	Correction to clause 8.6.2.1 Correct reporting of neighbours	F	3.9.0	3.10.0	T1-020467
TP-17	TP-020185	192	-	Correction to clause 8.7.1 CPICH RSCP	F	3.9.0	3.10.0	T1-020468
TP-17	TP-020185	193	-	Correction to clause 8.7.2 CPICH Ec/Io	F	3.9.0	3.10.0	T1-020469
TP-17	TP-020185	194	-	Correction of test case 'Rx-Tx time difference type 1'.	F	3.9.0	3.10.0	T1-020470
TP-17	TP-020185	195	-	FDD/TDD Handover Test Case	F	3.9.0	3.10.0	T1-020471
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TP-17	TP-020185	197	-	Correction to clause 8.3.7 Cell Re-selection in URA_PCH	F	3.9.0	3.10.0	T1-020475
TP-17	TP-020185	198	-	Segmented Measurement to be allowed for Inner Loop	F	3.9.0	3.10.0	T1-020476
TP-17	TP-020185	199	-	Correction to clause 8.4.1 RRC Re-establishment delay	F	3.9.0	3.10.0	T1-020477
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TP-17	TP-020185	203	-	Correction of Compressed Mode Performance Requirement	F	3.9.0	3.10.0	T1-020481
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TP-17	TP-020185	205	-	Deletion of some suclauses from F.6.1 Statistical testing of	F	3.9.0	3.10.0	T1-020483
TP-17	TP-020185	206	-	Correction to clause 8.3.5 Cell Re-selection in CELL_FACH	F	3.9.0	3.10.0	T1-020484
TP-17	TP-020185	207	-	Test Requirements for Cell Re-Selection in CELL-FACH	F	3.9.0	3.10.0	T1-020485
TP-17	TP-020185	208	-	Calculation of Test Requirements for Cell Re-Selection in	F	3.9.0	3.10.0	T1-020486
TP-17	TP-020185	209	-	Clarification of the definition of 90 % success rate	F	3.9.0	3.10.0	T1-020491

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TP-17	TP-020192	211	-	Correction of regional note in Annex J.1	F	3.9.0	3.10.0	-
TP-18	TP-020294	212	-	Correction of table titles of Demodulation of DCH in closed loop transmit diversity mode test case	F	3.10.0	3.11.0	T1-020631
TP-18	TP-020294	213	-	Maintenance of FDD/TDD Cell Re-selection test case	F	3.10.0	3.11.0	T1-020632
TP-18	TP-020294	214	-	Maintenance of UE Transmit Timing test case	F	3.10.0	3.11.0	T1-020633
TP-18	TP-020294	215	-	Correction of ACLR absolute power limit	F	3.10.0	3.11.0	T1-020634
TP-18	TP-020294	216	-	Correction to clause 8.3.6 Cell Re-selection in CELL_PCH	F	3.10.0	3.11.0	T1-020636
TP-18	TP-020294	217	-	Maintenance of 8.4.2.4 Correct behavior when reaching maximum transit power	F	3.10.0	3.11.0	T1-020637
TP-18	TP-020294	218	-	Correction of table numbers	F	3.10.0	3.11.0	T1-020639
TP-18	TP-020294	219	-	Correction of message parameter	F	3.10.0	3.11.0	T1-020640
TP-18	TP-020294	220	-	Correction of test parameter in 8.4.2.3 Correct behavior when Time-out	F	3.10.0	3.11.0	T1-020641
TP-18	TP-020294	221	-	Modification of the Random Access Test 8.4.2.1, Correct behaviour when receiving an ACK.	F	3.10.0	3.11.0	T1-020651
TP-18	TP-020294	222	-	Modifications to the test case for Inner Loop Power Control in the Uplink in TS34.121	F	3.10.0	3.11.0	T1-020642
TP-18	TP-020294	223	-	Correction of SCH side conditions and other corrections	F	3.10.0	3.11.0	T1-020750
TP-18	TP-020294	224	-	Corrections of test for power setting in uplink compressed mode	F	3.10.0	3.11.0	T1-020751
TP-18	TP-020294	225	-	Text for annex F.6.2 Statistical testing of RRM delay performance	F	3.10.0	3.11.0	T1-020752
TP-18	TP-020294	226	-	Maintenance of annex F.6.1 Statistical testing of BER BLER performance	F	3.10.0	3.11.0	T1-020753
TP-18	TP-020294	227	-	Dual limit BLER tests	F	3.10.0	3.11.0	T1-020754
TP-18	TP-020294	228	-	Correction of test method: Out-of-synchronisation handling of output power	F	3.10.0	3.11.0	T1-020755
TP-18	TP-020294	229	-	Correction of table and subclause references	F	3.10.0	3.11.0	T1-020756
TP-18	TP-020294	230	-	Revision of table titles in Sec 8. to provide unique and unambiguous descriptions	F	3.10.0	3.11.0	T1-020757
TP-18	TP-020294	231	-	Correction to clause 8.3.2 FDD/FDD Hard Handover	F	3.10.0	3.11.0	T1-020758
TP-18	TP-020294	232	-	Correction to PHYSICAL CHANNEL RECONFIGURATION message that activates compressed mode	F	3.10.0	3.11.0	T1-020759
TP-18	TP-020294	233	-	Introduction of test tolerances in Cell Reselection multi carrier test cases	F	3.10.0	3.11.0	T1-020769
TP-18	TP-020294	234	-	Correction of UL reference measurement channel	F	3.10.0	3.11.0	T1-020889
TP-19	TP-030045	235	-	P-CCPCH RSCP test case for FDD to TDD handover	F	3.11.0	3.12.0	T1-030171
TP-19	TP-030045	236	-	Correct reporting of TDD inter-frequency neighbours in	F	3.11.0	3.12.0	T1-030172
TP-19	TP-030045	237	-	Correction for minimum requirement of UE transmitted	F	3.11.0	3.12.0	T1-030173
TP-19	TP-030045	238	-	Removal of 34.123-1 Annex A reference	F	3.11.0	3.12.0	T1-030174
TP-19	TP-030045	239	-	Correction of UE parameter for Correct behaviour at Time-	F	3.11.0	3.12.0	T1-030175
TP-19	TP-030045	240	-	Correction of Out-of-synchronisation handling of output	F	3.11.0	3.12.0	T1-030178
TP-19	TP-030045	241	-	Removal of uplink dummy DCCH transmission function in	F	3.11.0	3.12.0	T1-030179
TP-19	TP-030045	242	-	Correction for Combining of TPC commands from radio links	F	3.11.0	3.12.0	T1-030186
TP-20	TP-030099	243	-	Modifications to the test cases for Transmit diversity modes in TS34.121	F	3.12.0	3.13.0	T1-030323
TP-20	TP-030099	244	-	Correction for Cell Re-selection in CELL_FACH state test case	F	3.12.0	3.13.0	T1-030324
TP-20	TP-030099	245	-	Correction for Random Access test case	F	3.12.0	3.13.0	T1-030325
TP-20	TP-030099	246	-	Correction for downlink compressed mode test case	F	3.12.0	3.13.0	T1-030326
TP-20	TP-030099	247	-	CR to 34.121 R99; Correction to Activation Time in Hard Handover RRM Test Cases	F	3.12.0	3.13.0	T1-030343
TP-20	TP-030099	249	-	CR to 34.121 R99; Corretion to Inner Loop Power Control in the Uplink	F	3.12.0	3.13.0	T1-030348
TP-21	TP-030218	294	-	CR to delete the technical content of 34.121 Rel 99 and replace it by a pointer to the gathered releases document	F	3.13.0	3.14.0	T1-031235

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