ETSITS 136 307 V11.11.0 (2015-04)



LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 11.11.0 Release 11)



Reference RTS/TSGR-0436307vbb0 Keywords LTE

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from: http://www.etsi.org/standards-search

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: https://portal.etsi.org/People/CommiteeSupportStaff.aspx

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2015.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**TM and **LTE**TM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://ipr.etsi.org).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

Contents

Intelle	ectual Property Rights	2
Forev	word	2
Moda	al verbs terminology	2
Forev	word	16
1	Scope	17
2	References	17
3 3.1 3.2	Definitions and Abbreviations Definitions	17
3A	General	18
4	Void	18
5	Void	18
6	Void	18
7	Void	
8	Void	18
9	Void	
10	Void	
11	Void	
12	Void	
13	Void	
14	Void	
15	Void	
16	Void	
17	Void	
18	Void	
19	CA configuration CA_41C Independent of Release	
20 20.1	CA configuration CA_1A-19A Independent of Release	20
20.2 20.2.1	CA_1A-19A UE with dual uplink	
20.2.1	•	
20.2.3	Demodulation performance and CSI reporting Requirements	20
22	Void	21
23	CA configuration CA_1A-18A Independent of Release	21
23.1	CA_1A-18A UE	
23.1.1 23.1.2	<u>*</u>	
23.1.2	<u>*</u>	
24	CA configuration CA_1A-21A Independent of Release	
24.1	Void	

24.2	CA_1A-21A UE with dual uplink	22
24.2.1	RF Requirements	22
24.2.2	RRM Requirements	22
24.2.3	Demodulation performance and CSI reporting Requirements	22
25	CA configuration CA_3A-5A Independent of Release	22
25.1	CA_3A-5A UE with single uplink	
25.1.1	· · · · · · · · · · · · · · · · · · ·	
25.1.2	•	
25.1.3	1	
25.1.3	CA_3A-5A UE with dual uplink	
25.2.1		
25.2.1		
25.2.2		
26	CA configuration CA_3A-7A Independent of Release	
26.1	Void	
26.1	CA_3A-7A UE with dual uplink	
26.2 26.2.1	•	
	1	
26.2.2		
26.2.3	Demodulation performance and CSI reporting Requirements	24
27	CA configuration CA_3A-20A Independent of Release	
27.1	CA_3A-20A UE with single uplink	
27.1.1	1	
27.1.2	1	
27.1.3		
27.2	CA_3A-20A UE with dual uplink	
27.2.1	RF Requirements	25
27.2.2	1	
27.2.3	Demodulation performance and CSI reporting Requirements	25
28	CA configuration CA_7A-20A Independent of Release	25
28.1	Void	
28.2	CA_7A-20A UE with dual uplink	25
28.2.1	RF Requirements	25
28.2.2	RRM Requirements	25
28.2.3	Demodulation performance and CSI reporting Requirements	26
29	Void	26
30	Void	2 <i>6</i>
31	CA configuration CA_2A-29A Independent of Release	26
31.1	CA_2A-29A UE	
31.1.1		
31.1.2	•	
31.1.3	<u>.</u>	
32	CA configuration CA_4A-29A Independent of Release	26
32.1	CA 4A-29A UE	
32.1.1	-	
32.1.1		
32.1.2	<u>.</u>	
33	CA configuration CA_3A-8A Independent of Release	
33.1	CA_3A-8A UE with single uplink	
33.1.1	±	
33.1.2	1	
33.1.3	1 0 1	
33.2	CA_3A-8A UE with dual uplink	
33.2.1	1	
33.2.2 33.2.3	1	
44 7 2	Demodulation performance and CSI reporting Requirements	28

34	CA configuration CA_4A-5A Independent of Release	
34.1	CA_4A-5A UE	
34.1.1	1	
34.1.2	1	
34.1.3	Demodulation performance and CSI reporting Requirements	28
35	CA configuration CA_4A-12A Independent of Release	29
35.1	CA_4A-12A UE with single uplink	29
35.1.1		
35.1.2	RRM Requirements	29
35.1.3	Demodulation performance and CSI reporting Requirements	29
35.2	CA_4A-12A UE with dual uplink	
35.2.1		
35.2.2	RRM Requirements	29
35.2.3	Demodulation performance and CSI reporting Requirements	30
36	CA configuration CA_4A-13A Independent of Release	30
36.1	Void	30
36.2	CA_4A-13A UE with dual uplink	30
36.2.1	_	
36.2.2	RRM Requirements	30
36.2.3	•	
37	CA configuration CA_4A-17A Independent of Release	30
37.1	Void	
37.2	CA_4A-17A UE with dual uplink	
37.2.1	•	
37.2.2	·	
37.2.3	•	
38	CA configuration CA_5A-12A Independent of Release	31
38.1	Void	
38.2	CA_5A-12A UE with dual uplink	
38.2.1	•	
38.2.2	1	
38.2.3	1	
39	CA configuration CA_5A-17A Independent of Release	32
39.1	Void	
39.2	CA_5A-17A UE with dual uplink	
39.2.1	_	
39.2.2		
39.2.3	•	
40	CA configuration CA_4A-7A Independent of Release	
40.1	Void	
40.2	CA_4A-7A UE with dual uplink	
40.2.1	1	
40.2.2		
40.2.3	Demodulation performance and CSI reporting Requirements	33
41	Void	33
42	Band 30 Independent of Release	33
42.1	Band 30 UE	33
42.1.1	RF Requirements	33
42.1.2	·	
42.1.3	•	
43	Band 31 Independent of Release	34
43.1	Band 31 UE	34
43.1.1	RF Requirements	34
43.1.2	1 · · · · · · · · · · · · · · · · · · ·	
43.1.3	Demodulation performance and CSI reporting Requirements	34

44	CA configuration CA_1A-8A Independent of Release	34
44.1	CA_1A-8A UE with single uplink	35
44.1.1	RF Requirements	35
44.1.2		
44.1.3	Demodulation performance and CSI reporting Requirements	35
44.2	CA_1A-8A UE with dual uplink	
44.2.1		
44.2.2	RRM Requirements	35
44.2.3	<u>•</u>	
45	CA configuration CA_2A-13A Independent of Release	
45.1	CA_2A-13A UE with single uplink	
45.1.1	1	
45.1.2	1	
45.1.3		
45.2	CA_2A-13A UE with dual uplink	
45.2.1	1	
45.2.2	1	
45.2.3	Demodulation performance and CSI reporting Requirements	37
46	CA configuration CA_3A-19A Independent of Release	37
46.1	CA_3A-19A UE with single uplink	
46.1.1	_	
46.1.2	•	
46.1.3	•	
46.2	CA_3A-19A UE with dual uplink	
46.2.1	•	
46.2.2	<u>.</u>	
46.2.3		
40.2.3		
47	CA configuration CA_3A-26A Independent of Release	
47.1	CA_3A-26A UE with single uplink	
47.1.1	RF Requirements	38
47.1.2	RRM Requirements	38
47.1.3	Demodulation performance and CSI reporting Requirements	38
47.2	CA_3A-26A UE with dual uplink	38
47.2.1	4	
47.2.2	1	
47.2.3	Demodulation performance and CSI reporting Requirements	39
18	CA configuration CA_3A-28A Independent of Release	30
48.1	CA_3A-28A UE	
48.1.1		
48.1.1	4	
48.1.2 48.1.3	4	
40.1.3		
49	CA configuration CA_19A-21A Independent of Release	
49.1	CA_19A-21A UE with single uplink	40
49.1.1	RF Requirements	40
49.1.2		
49.1.3	Demodulation performance and CSI reporting Requirements	40
49.2	CA_19A-21A UE with dual uplink	40
49.2.1	RF Requirements	40
49.2.2		
49.2.3	Demodulation performance and CSI reporting Requirements	40
50	CA configuration CA_23A-29A Independent of Release	<i>1</i> .1
50.1		
50.1 50.1.1	CA_23A-29A UE	
50.1.1 50.1.2	•	
50.1.2 50.1.3	1	
50.1.3		
51	CA configuration CA_4A-4A Independent of Release	41
51.1	Void	40

51.1.1		
51.1.2		
51.1.3		
51.2	CA_4A-4A UE with dual uplink	
51.2.1	1	
51.2.2		
51.2.3	Demodulation performance and CSI reporting Requirements	42
52	CA configuration CA_3C Independent of Release	42
52.1	CA_3C UE	
52.1.1	RF Requirements	42
52.1.2	RRM Requirements	42
52.1.3	Demodulation performance and CSI reporting Requirements	43
53	CA configuration CA_1A-26A Independent of Release	43
53.1	CA 1A-26A UE	
53.1.1	-	
53.1.2	•	
53.1.3	Demodulation performance and CSI reporting Requirements	43
54	CA configuration CA_2A-4A Independent of Release	13
54.1	CA_2A-4A UE with single uplink	
54.1.1	· ·	
54.1.2	<u>.</u>	
54.1.3	•	
54.2	CA_2A-4A UE with dual uplink	
54.2.1	•	
54.2.2	•	
54.2.3	Demodulation performance and CSI reporting Requirements	44
55	CA configuration CA_2A-5A Independent of Release	11
55.1	CA 2A-5A UE	
55.1.1	-	
55.1.2	•	
55.1.3	•	
56	CA configuration CA_23B Independent of Release	15
56.1	CA 23B UE	
56.1.1	-	
56.1.2	•	
56.1.3	•	
57	CA configuration CA_27B Independent of Release	
57.1	CA_27B UE	
57.1.1	1	
57.1.2 57.1.3	<u>.</u>	
37.1.3		
58	CA configuration CA_2A-12A Independent of Release	
58.1	CA_2A-12A UE	
58.1.1	1	
58.1.2	1	
58.1.3	Demodulation performance and CSI reporting Requirements	47
59	CA configuration CA_5A-7A Independent of Release	47
59.1	CA_5A-7A UE with single uplink	
59.1.1		
59.1.2	1	
59.1.3		
59.2	CA_5A-7A UE with dual uplink	
59.2.1	1	
59.2.2	1	
59.2.3	Demodulation performance and CSI reporting Requirements	48
60	CA configuration CA_5A-25A Independent of Release	48
	1	

60.1	CA_5A-25A UE	
60.1.1	RF Requirements	48
60.1.2	RRM Requirements	48
60.1.3	Demodulation performance and CSI reporting Requirements	48
61	CA configuration CA_7A-28A Independent of Release	48
61.1	CA_7A-28A UE with single uplink	
61.1.1		
61.1.2	*	
61.1.3	1	
61.2	CA_7A-28A UE with dual uplink	
61.2.1	_	
61.2.2	•	
61.2.3	1	
62	CA configuration CA_12A-25A Independent of Release	49
62.1	CA 12A-25A UE	
62.1.1		
62.1.2	•	
62.1.3	•	
63	CA configuration CA_3A-3A Independent of Release	50
63.1	CA_3A-3A UE	
63.1.1		
63.1.2	•	
63.1.3	1	
64	CA configuration CA_7A-7A Independent of Release	
64.1	CA_7A-7A UE	
64.1.1	1	
64.1.2	1	
64.1.3	Demodulation performance and CSI reporting Requirements	51
65	CA configuration CA_23A-23A Independent of Release	
65.1	CA_23A-23A UE	51
65.1.1	RF Requirements	51
65.1.2	1	
65.1.3	Demodulation performance and CSI reporting Requirements	52
66	CA configuration CA_3A-27A Independent of Release	52
66.1	CA_3A-27A UE	
66.1.1		
66.1.2		
66.1.3		
67 67 1	CA 20C LIE	
67.1 67.1.1	CA_39C UE	
	1	
67.1.2 67.1.3	1	
68	CA configuration CA_39A-41A Independent of Release	
68.1	CA_39A-41A UE with single uplink	
68.1.1	1	
68.1.2		
68.1.3		
68.2	CA_39A-41A UE with dual uplink	
68.2.1	1	
68.2.2	1	
68.2.3		
69	Void	54
70	CA configuration CA_1A-5A Independent of Release	54
70.1	CA 1A-5A UE with single uplink	

70.1.1	RF Requirements	54
70.1.2	RRM Requirements	54
70.1.3	Demodulation performance and CSI reporting Requirements	54
70.2	CA_1A-5A UE with dual uplink	
70.2.1	RF Requirements	
70.2.2	RRM Requirements	
70.2.3	Demodulation performance and CSI reporting Requirements	
70.2.5		
71	CA configuration CA_1A-11A Independent of Release	55
71.1	CA_1A-11A UE	55
71.1.1	RF Requirements	55
71.1.2	RRM Requirements	55
71.1.3	Demodulation performance and CSI reporting Requirements	
72	CA configuration CA_1A-20A Independent of Release	
72.1	CA_1A-20A UE	
72.1.1	RF Requirements	
72.1.2		
72.1.3	Demodulation performance and CSI reporting Requirements	56
73	CA configuration CA_4A-27A Independent of Release	56
73.1	CA_4A-27A UE	
73.1.1		
	RF Requirements	
73.1.2	RRM Requirements	
73.1.3	Demodulation performance and CSI reporting Requirements	
74	CA configuration CA_20A-32A Independent of Release	57
74.1	CA_23A-29A UE	
74.1.1	RF Requirements	
74.1.2	•	
74.1.3	Demodulation performance and CSI reporting Requirements	
,		
75	CA configuration CA_41D Independent of Release	
75.1	CA_41D UE	57
75.1.1	RF Requirements	57
75.1.2	RRM Requirements	58
75.1.3	Demodulation performance and CSI reporting Requirements	58
76	CA CA CA CA A2C In demand of Delegar	5 0
76	CA configuration CA_42C Independent of Release	
76.1	CA_42C UE	
76.1.1	RF Requirements	
76.1.2	RRM Requirements	
76.1.3	Demodulation performance and CSI reporting Requirements	58
77	CA configuration CA_42A-42A Independent of Release	58
77.1	CA_42A-42A UE	
77.1.1	RF Requirements	
77.1.2	RRM Requirements	
77.1.3	Demodulation performance and CSI reporting Requirements	
78	CA configuration CA_2A-2A Independent of Release	59
78.1	CA_2A-2A UE	59
78.1.1	RF Requirements	59
78.1.2	RRM Requirements	59
78.1.3	Demodulation performance and CSI reporting Requirements	59
70	CA C . CA AOCI I I . CD I	50
79	CA configuration CA_40C Independent of Release	
79.1	CA_40C UE	
79.1.1	RF Requirements	
79.1.2	RRM Requirements	
79.1.3	Demodulation performance and CSI reporting Requirements	60
80	CA configuration CA_8A-11A Independent of Release	60
80.1	CA_8A-11A UE	
80.1.1	RF Requirements	
00.1.1	Itequitette	

80.1.2 80.1.3	1	
81 81.1	CA configuration CA_41A-42A Independent of Release	
81.1.1		
81.1.2	1	
	1	
81.1.3	1	
82	CA configuration CA_18A-28A Independent of Release	
82.1	CA_18A-28A UE	
82.1.1	1	
82.1.2	1	
82.1.3	Demodulation performance and CSI reporting Requirements	61
83	CA configuration CA_1A-5A-7A Independent of Release	
83.1	CA_1A-5A-7A UE	
83.1.1	1	
83.1.2		
83.1.3	Demodulation performance and CSI reporting Requirements	62
84	CA configuration CA_1A-3A-5A Independent of Release	
84.1	CA_1A-3A-5A UE	62
84.1.1	1	62
84.1.2	1	
84.1.3	Demodulation performance and CSI reporting Requirements	62
85	CA configuration CA_1A-3A-8A Independent of Release	63
85.1	CA_1A-3A-8A UE	63
85.1.1	RF Requirements	63
85.1.2	1	
85.1.3	Demodulation performance and CSI reporting Requirements	63
86	CA configuration CA_1A-3A-19A Independent of Release	63
86.1	CA_1A-3A-19A UE	63
86.1.1	RF Requirements	63
86.1.2	1	
86.1.3	Demodulation performance and CSI reporting Requirements	64
87	CA configuration CA_1A-3A-20A Independent of Release	
87.1	CA_1A-3A-20A UE	64
87.1.1	1	
87.1.2	1	
87.1.3	Demodulation performance and CSI reporting Requirements	64
88	CA configuration CA_1A-3A Independent of Release	64
88.1	CA_1A-3A UE with single uplink	
88.1.1	•	
88.1.2	1	
88.1.3		
88.2	CA_1A-3A UE with dual uplink	
88.2.1	1	
88.2.2 88.2.3	1	
89	CA configuration CA_1A-7A-20A Independent of Release	
89.1	CA_1A-7A-20A UE	
89.1.1	1	
89.1.2 89.1.3	1	
90	CA configuration CA_1A-7A Independent of Release	
90.1	CA_1A-7A UE with single uplink	
90.1.1	1	66 66
7011	N N IVER PRODUCEDON	hh

90.1.3	r r r r r	
90.2	CA_1A-7A UE with dual uplink	
90.2.1	1	
90.2.2	1	
90.2.3	Demodulation performance and CSI reporting Requirements	67
91	CA configuration CA_1A-19A-21A Independent of Release	67
91.1	CA_1A-19A-21A UE	
91.1.1	RF Requirements	67
91.1.2	144.1149	
91.1.3	Demodulation performance and CSI reporting Requirements	67
92	CA configuration CA_2A-2A-13A Independent of Release	67
92.1	CA 2A-2A-13A UE	
92.1.1	-	
92.1.2		
92.1.3	Demodulation performance and CSI reporting Requirements	68
93	CA configuration CA_2A-4A-5A Independent of Release	68
93.1	CA_2A-4A-5A UE	
93.1.1		
93.1.2	1	
93.1.3	•	
0.4		
94	CA configuration CA_2A-4A-13A Independent of Release	
94.1 94.1.1	CA_2A-4A-13A UE	
94.1.1	1	
94.1.2	•	
95	CA configuration CA_2A-4A-12A Independent of Release	
95.1	CA_2A-4A-12A UE	
95.1.1	1	
95.1.2	1	
95.1.3	Demodulation performance and CSI reporting Requirements	09
96	CA configuration CA_2A-12B Independent of Release	69
96.1	CA_2A-12B UE	
96.1.1	1	
96.1.2	1	
96.1.3	Demodulation performance and CSI reporting Requirements	70
97	CA configuration CA_3A-7C Independent of Release	70
97.1	CA_3A-7C UE	70
97.1.1	RF Requirements	70
97.1.2	1	
97.1.3	Demodulation performance and CSI reporting Requirements	70
98	CA configuration CA_3A-7A-20A Independent of Release	70
98.1	CA_3A-7A-20A UE	
98.1.1		
98.1.2	1	
98.1.3	Demodulation performance and CSI reporting Requirements	71
99	CA configuration CA_4A-4A-13A Independent of Release	71
99.1	CA_4A-4A-13A UE	
99.1.1		
99.1.2	1	
99.1.3	•	
100	CA configuration CA_4A-12B Independent of Release	
100.1	CA_4A-12B UE	
100.1. 100.1.	1	
100.1.	•	

101 (CA configuration CA_12B Independent of Release	72
101.1	CA_12B UE	72
101.1.1	1	
101.1.2	1	
101.1.3	Demodulation performance and CSI reporting Requirements	72
102	CA configuration CA_2A-4A-4A Independent of Release	73
102.1	CA_2A-4A-4A UE	73
102.1.1	1	
102.1.2		
102.1.3	Demodulation performance and CSI reporting Requirements	73
103	CA configuration CA_4A-4A-12A Independent of Release	73
103.1	CA_4A-12A UE	
103.1.1		
103.1.2	RRM Requirements	73
103.1.3	Demodulation performance and CSI reporting Requirements	74
104	CA configuration CA_3C-7A Independent of Release	74
104.1	CA 3C-7A UE	
104.1.1	-	
104.1.2	1	
104.1.3	1	
105	CA configuration CA_2A-5A-12A Independent of Release	7.4
105 (105.1	CA 2A-5A-12A UECA 2A-5A-12A Independent of Release	
105.1		
105.1.1	11	
105.1.2	·	
	CA configuration CA_4A-5A-12A Independent of Release	
106.1	CA_4A-5A-12A UE	
106.1.1 106.1.2	RF Requirements	
106.1.2	1	
	CA configuration CA_2A-5A-30A Independent of Release	
107.1	CA_2A-5A-30A UE	
107.1.1	1	
107.1.2	4	
107.1.3	Demodulation performance and CSI reporting Requirements	/C
	CA configuration CA_2A-12A-30A Independent of Release	
108.1	CA_2A-12A-30A UE	
108.1.1	RF Requirements	
108.1.2		
108.1.3	Demodulation performance and CSI reporting Requirements	76
109 (CA configuration CA_2A-29A-30A Independent of Release	76
109.1	CA_2A-29A-30A UE	76
109.1.1	RF Requirements	76
109.1.2		
109.1.3	Demodulation performance and CSI reporting Requirements	77
110	CA configuration CA_4A-5A-30A Independent of Release	77
110.1	CA_4A-5A-30A UE	
110.1.1	RF Requirements	
110.1.2	•	
110.1.3	Demodulation performance and CSI reporting Requirements	77
111 (CA configuration CA_4A-12A-30A Independent of Release	77
111 (111.1	CA_4A-12A-30A UECA_4A-12A-30A Independent of Release	
111.1.1		
111.1.2	•	
111.1.3	1	

	CA configuration CA_4A-29A-30A Independent of Release	
112.1	CA_4A-29A-30A UE	
112.1.1	1	
112.1.2	1	
112.1.3	Demodulation performance and CSI reporting Requirements	78
113	CA configuration CA_2A-30A Independent of Release	78
113.1	CA_2A-30A UE	
113.1.1	RF Requirements	79
113.1.2	RRM Requirements	79
113.1.3	Demodulation performance and CSI reporting Requirements	79
114 (CA configuration CA_4A-30A Independent of Release	79
114.1	CA_4A-30A UE	
114.1.1	RF Requirements	
114.1.2	RRM Requirements	79
114.1.3	•	
115 (CA configuration CA_5A-30A Independent of Release	80
115.1	CA 5A-30A UE	
115.1.1	RF Requirements	
115.1.2	•	
115.1.3	Demodulation performance and CSI reporting Requirements	
116 (CA configuration CA_12A-30A Independent of Release	
116.1	CA_12A-30A UE	
116.1.1	1	
116.1.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
116.1.3	Demodulation performance and CSI reporting Requirements	81
117	CA configuration CA_29A-30A Independent of Release	81
117.1	CA 29A-30A UE	
117.1.1	RF Requirements	
117.1.2	RRM Requirements	
117.1.3	<u>.</u>	
118	CA configuration CA_40D Independent of Release	81
118.1	CA_40D UE	
118.1.1	RF Requirements	
118.1.2	RRM Requirements	
118.1.3	<u>*</u>	
	Void	
119.1	Void	
119.1.1	Void	
119.1.2 119.1.3		
	CA configuration CA_41C-41A and CA_41A-41C Independent of Release	
121.1	CA_41C-41A and CA_41A-41C UE	
121.1.1	RF Requirements	
121.1.2	1	
121.1.3	Demodulation performance and CSI reporting Requirements	83
122	CA configuration CA_1A-28A Independent of Release	83
122.1	CA 1A-28A UE	
122.1.1		
122.1.2		
122.1.3	•	
123	CA configuration CA_5A-13A Independent of Release	84
123.1	CA_5A-13A UECA_5A-13A UE	
123.1.1	RF Requirements	
123.1.2	•	
123.1.3		

CA configuration CA_1A-3A-26A Independent of Release	84
CA_1A-3A-26A UE	84
1 RF Requirements	84
2 RRM Requirements	85
Demodulation performance and CSI reporting Requirements	85
CA configuration CA 2C Independent of Release	85
•	
Demodulation performance and CSI reporting Requirements	
CA configuration CA 2C-29A Independent of Release	85
-	
•	
•	
Demodulation performance and CSI reporting Requirements	86
CA configuration CA_7A-8A Independent of Release	86
CA_7A-8A UE	86
1 RF Requirements	86
2 RRM Requirements	86
Demodulation performance and CSI reporting Requirements	86
CA configuration CA 7A-8A-20A Independent of Release	87
-	
•	
1	
<u>.</u>	
1	
CA_39A-41C UE	88
1 RF Requirements	88
2 RRM Requirements	88
Demodulation performance and CSI reporting Requirements	88
CA configuration CA 7A-12A Independent of Release	88
<u>.</u>	
•	
<u>*</u>	
Demodulation performance and CSI reporting Requirements	89
CA configuration CA_2A-5A-13A Independent of Release	89
CA_ 2A-5A-13A UE	
1 RF Requirements	89
RF Requirements	
	RF Requirements RRM Requirements CA configuration CA_2C Independent of Release CA_2C UE RF Requirements RRM Requirements RRM Requirements RRM Requirements CA configuration CA_2C-29A Independent of Release CA_2C-29A UE RF Requirements RF Requirements CA configuration CA_2C-29A Independent of Release CA_2C-29A UE RF Requirements RRM Requirements RRM Requirements RRM Requirements Bemodulation performance and CSI reporting Requirements CA configuration CA_2A-4A-29A Independent of Release CA_2A-4A-29A UE RF Requirements RRM Requirements RRM Requirements RRM Requirements CA configuration CA_7A-8A Independent of Release CA_7A-8A UE RF Requirements RRM Requirements RRM Requirements RRM Requirements RRM Requirements RRM Requirements RRM Requirements CA configuration CA_7A-8A-20A Independent of Release CA_7A-8A-20A UE RF Requirements CA configuration CA_7A-8A-20A Independent of Release CA_7A-8A-20A UE RF Requirements CA configuration CA_7A-8A-20A Independent of Release CA_7A-8A-20A UE RF Requirements CA configuration CA_7A-8A-10A Independent of Release CA_3O-41A UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration CA_39C-41A Independent of Release CA_39C-41A UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration CA_39A-41C Independent of Release CA_39A-41C UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration CA_7A-12A Independent of Release CA_7A-12A UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration CA_7A-12A Independent of Release CA_7A-12A UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration CA_7A-12A Independent of Release CA_7A-12A UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration CA_7A-12A Independent of Release CA_7A-12A UE RF Requirements Demodulation performance and CSI reporting Requirements CA configuration

135	CA configuration CA_4A-5A-13A Independent of Release	
135.1	-	
135.1	1	
135.1	1	
135.1	.3 Demodulation performance and CSI reporting Requirements	90
136	CA configuration CA_1A-18A-28A Independent of Release	90
136.1	· · · · · · · · · · · · · · · · · · ·	
136.1		
136.1	•	
136.1	•	
127	CA Canada CA 2A 2A 5A Indonesia of Dalace	0.1
137	CA configuration CA_2A-2A-5A Independent of Release	
137.1 137.1		
137.1	1	
137.1	1	
137.1	.5 Demodulation performance and CSI reporting Requirements	91
138	CA configuration CA_4A-4A-5A Independent of Release	91
138.1	CA_ 4A-4A-5A UE	91
138.1	.1 RF Requirements	91
138.1		
138.1	.3 Demodulation performance and CSI reporting Requirements	91
139	CA configuration CA_4A-4A-7A Independent of Release	92
139.1	· · · · · · · · · · · · · · · · · · ·	
139.1		
139.1	•	
139.1	1	
Anne	ex A (informative): Frequency arrangement for overlapping operating bands	03
Anne	ex B (normative): Common Requirements	94
B.1	Purpose of annex	94
B.2	Common RRM requirements	0/
B.2.1	Common RRM requirements for a band independent of release	
B.2.2		
B.2.3	Common RRM requirements for an intra-band non-contiguous CA configuration	
B.2.4		
B.3	Common UE performance requirements	
B.3.1	Void	
B.3.2		
B.3.3		
B.3.4	Void	97
B.4	Common UE RF requirements	97
B.4.1	Common UE RF requirements for a band independent of release	
B.4.2		
B.4.3	Common UE RF requirements for an inter-band CA configuration	
B.4.4		
	uplink band	
B.4.5	Common UE RF requirements for an intra-band non-contiguous CA configuration	100
A	ex C (informative): Change history	104
Anne	ex C (informative): Change history	

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document specifies requirements on UEs supporting a frequency band and inter-band/intra-band CA configurations that are independent of release.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". [2] 3GPP TS 36.101 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception". 3GPP TS 36.133 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); [3] "Requirements for Support of Radio Resource Management". [4] 3GPP TS 36.307 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) Supporting a release-independent frequency band". [5] 3GPP TS 36.133 (Release 11): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management". [6] 3GPP TS 36.101 (Release 11): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception". 3GPP TS 36.306 (Release 11): "Evolved Universal Terrestrial Radio Access (E-UTRA); [7]
- User Equipment (UE) radio access capabilities".
- [8] 3GPP TS 36.101 (Release 10): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".

3 Definitions and Abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] apply.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3A General

TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release, and that the standardisations of new inter-band/intra-band CA configurations also may be independent of a release for Rel-10 upwards. However, in order to implement a UE that conforms to a particular release but supports a band of operation or carrier aggregation of particular inter-band/intra-band CA configurations that is specified in a later release, it is necessary to specify some extra requirements.

For example, Band 19 is contained in the Release 9 specifications. In order to implement a UE conforming to Release 8 but supporting Band 19, it is necessary for the UE to additionally conform to some parts of the Release 9 specifications, such as the radio frequency and radio resource management requirements for the Band 19.

For another example on carrier aggregations, CA configuration CA_1A-19A is contained in the Release 11 specifications. In order to implement a UE conforming to Release 10 but supporting the CA configuration CA_1A-19A, it is necessary for the UE to additionally conform to some parts of the Release 11 specifications, such as the radio frequency and radio resource management requirements for the CA configuration CA_1A-19A.

All frequency bands are fully specified in this release of the specifications. The present document does not contain any requirements for UEs supporting frequency bands independent of release.

NOTE: See NOTE in clause 4.4 in [6].

4	Void	
5	Void	
6	Void	
7	Void	
8	Void	
9	Void	
10	Void	

11	Void	
12	Void	
13	Void	
14	Void	
15	Void	
16	Void	
17	Void	
18	Void	

19 CA configuration CA_41C Independent of Release

CA_41C is specified in Release 11 and Release 12 but is defined as a release-independent E-UTRA CA configuration for Rel-11 upwards.

19.1 Band 41 UE

UEs that conform to Release 11 and support CA_41C shall support the following requirements in Release 12 for both one uplink and simultaneous transmission on two uplinks.

19.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_41C specified in [2], which are listed in Table B.4.2-1 of [4].:

Table 19.1.1-1: Void

19.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_41C specified in [3], which are listed in Table B.2.2-1 of [4].

Table 19.1.1-2: Void

19.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

20 CA configuration CA_1A-19A Independent of Release

CA configuration CA_1A-19A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

20.1 Void

20.2 CA_1A-19A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-19A with dual uplink shall support the following requirements in Release 12.

20.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 20.2.1-1: Void

20.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A specified in [3], which are listed in Table B.2.5-1 of [4].

20.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

21 CA configuration CA_7C Independent of Release

CA configuration CA_7C is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

21.1 CA 7C UE

UEs that conform to Release 11 and support CA_7C shall support the following requirements in Release 12.

21.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 21.1.1-1: Void

21.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7C specified in [3], which are listed in Table B.2.2-1 of [4].

Table 21.1.1-2: Void

21.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

22 Void

CA configuration CA_1A-18A Independent of Release

CA configuration CA_1A-18A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

23.1 CA_1A-18A UE

UEs that conform to Release 11 and support CA_1A-18A shall support the following requirements in Release 12.

23.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 23.1.1-1: Void

23.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 23.1.2-1: Void

23.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

24 CA configuration CA_1A-21A Independent of Release

CA configuration CA_1A-21A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

24.1 Void

24.2 CA_1A-21A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-21A with dual uplink shall support the following requirements in Release 12.

24.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-21A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 24.2.1-1: Void

24.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-21A specified in [3], which are listed in Table B.2.5-1 of [4].

24.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-21A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

25 CA configuration CA_3A-5A Independent of Release

CA configuration CA_3A-5A with 1UL/2DLs is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-5A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

25.1 CA_3A-5A UE with single uplink

UEs that conform to Release 11 and support CA_3A-5A shall support the following requirements in Release 12.

25.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 25.1.1-1: Void

25.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 25.1.2-1: Void

25.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

25.2 CA 3A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-5A with dual uplink shall support the following requirements in Release 12.

25.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-5A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 25.2.1-1: Void

25.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-5A specified in [3], which are listed in Table B.2.5-1 of [4].

25.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-5A among the CA demodulation performance and CSI reporting requirements specified in [2].

26 CA configuration CA_3A-7A Independent of Release

CA configuration CA_3A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

26.1 Void

26.2 CA_3A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-7A with dual uplink shall support the following requirements in Release 12.

26.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 26.2.1-1: Void

26.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

26.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

27 CA configuration CA_3A-20A Independent of Release

CA configuration CA_3A-20A with 1UL/2DLs is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-20A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

27.1 CA_3A-20A UE with single uplink

UEs that conform to Release 11 and support CA_3A-20A shall support the following requirements in Release 12.

27.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 27.1.1-1: Void

27.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

27.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

27.2 CA_3A-20A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-20A with dual uplink shall support the following requirements in Release 12.

27.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-20A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 27.2.1-1: Void

27.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-20A specified in [3], which are listed in Table B.2.5-1 of [4].

27.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

28 CA configuration CA_7A-20A Independent of Release

 $CA\ configuration\ CA_7A-20A\ with\ 2ULs/2DLs\ is\ specified\ in\ Release\ 12\ but\ is\ defined\ as\ a\ release-independent\ CA\ configuration\ for\ Rel-11\ upwards.$

28.1 Void

28.2 CA_7A-20A UE with dual uplink

UEs that conform to Release 11 and support CA_7A-20A with dual uplink shall support the following requirements in Release 12.

28.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-20A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 28.2.1-1: Void

28.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-20A specified in [3], which are listed in Table B.2.5-1 of [4].

28.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

29 Void

30 Void

CA configuration CA_2A-29A Independent of Release

CA configuration CA_2A-29A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

31.1 CA 2A-29A UE

UEs that conform to Release 11 and support CA_2A-29A shall support the following requirements in Release 12.

31.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-29A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 31.1.1-1: Void

31.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-29A specified in [3], which are listed in Table B.2.4-1 of [4].

31.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

32 CA configuration CA_4A-29A Independent of Release

CA configuration CA_4A-29A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

32.1 CA 4A-29A UE

UEs that conform to Release 11 and support CA_4A-29A shall support the following requirements in Release 12.

32.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-29A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 32.1.1-1: Void

32.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-29A specified in [3], which are listed in Table B.2.4-1 of [4].

32.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

33 CA configuration CA_3A-8A Independent of Release

CA configuration CA_3A-8A with 1UL/2DLs is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-8A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

33.1 CA 3A-8A UE with single uplink

UEs that conform to Release 11 and support CA_3A-8A shall support the following requirements in Release 12.

33.1.1 RF Requirements

The UE shall comply with the RF requirements for CA 3A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 33.1.1-1: Void

33.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-8A specified in [3], which are listed in Table B.2.4-1 of [4].

33.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

33.2 CA_3A-8A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-8A with dual uplink shall support the following requirements in Release 12.

33.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-8A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 33.2.1-1: Void

33.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-8A specified in [3], which are listed in Table B.2.5-1 of [4].

33.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

CA configuration CA_4A-5A Independent of Release

CA configuration CA_4A-5A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

34.1 CA_4A-5A UE

UEs that conform to Release 10 and support CA_4A-5A shall support the following requirements in Release 12.

34.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 34.1.1-1:

34.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 34.1.2-1: Void

34.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

CA configuration CA_4A-12A Independent of Release

CA configuration CA_4A-12A with 1UL/2DLs is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_4A-12A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

35.1 CA_4A-12A UE with single uplink

UEs that conform to Release 11 and support CA_4A-12A shall support the following requirements in Release 12.

35.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 35.1.1-1: Void

35.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 35.1.2-1: Void

35.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

35.2 CA_4A-12A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-12A with dual uplink shall support the following requirements in Release 12.

35.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 35.2.1-1: Void

35.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [3], which are listed in Table B.2.5-1 of [4].

35.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

36 CA configuration CA_4A-13A Independent of Release

CA configuration CA_4A-13A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

36.1 Void

36.2 CA_4A-13A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-13A with dual uplink shall support the following requirements in Release 12.

36.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-13A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 36.2.1-1: Void

36.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-13A specified in [3], which are listed in Table B.2.5-1 of [4].

36.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

37 CA configuration CA_4A-17A Independent of Release

CA configuration CA_4A-17A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

37.1 Void

37.2 CA_4A-17A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-17A with dual uplink shall support the following requirements in Release 12.

37.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-17A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 37.2.1-1: Void

37.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-17A specified in [3], which are listed in Table B.2.5-1 of [4].

37.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-17A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

38 CA configuration CA_5A-12A Independent of Release

CA configuration CA_5A-12A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

38.1 Void

38.2 CA_5A-12A UE with dual uplink

UEs that conform to Release 11 and support CA_5A-12A with dual uplink shall support the following requirements in Release 12.

38.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-12A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 38.2.1-1: Void

38.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-12A specified in [3], which are listed in Table B.2.5-1 of [4].

38.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

39 CA configuration CA_5A-17A Independent of Release

CA configuration CA_5A-17A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

39.1 Void

39.2 CA_5A-17A UE with dual uplink

UEs that conform to Release 11 and support CA_5A-17A with dual uplink shall support the following requirements in Release 12.

39.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-17A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 39.2.1-1: Void

39.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-17A specified in [3], which are listed in Table B.2.5-1 of [4].

39.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-17A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

40 CA configuration CA_4A-7A Independent of Release

CA configuration CA_4A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

40.1 Void

40.2 CA_4A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-7A with dual uplink shall support the following requirements in Release 12.

40.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 40.2.1-1: Void

40.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

40.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

41 Void

42 Band 30 Independent of Release

Band 30 is specified in Release 12 but is defined as a release-independent frequency band. This approach aligns the Band 30 with other frequency bands when considering features that have to be supported in different releases.

42.1 Band 30 UE

UEs that conform to Release 11 and support Band 30 shall support the following requirements in Release 12.

42.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 30 specified in [2], which are listed in Table B.4.1-1 of [4].

Table 42.1.1-1: Void

42.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 30 specified in [3], which are listed in Table B.2.1-1 of [4].

Table 42.1.2-1: Void

42.1.3 Void

43 Band 31 Independent of Release

Band 31 is specified in Release 12 but is defined as a release-independent frequency band. This approach aligns the Band 31 with other frequency bands when considering features that have to be supported in different releases.

43.1 Band 31 UE

UEs that conform to Release 11 and support Band 31 shall support the following requirements in Release 12.

43.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 31 specified [2], which are listed in Table B.4.1-1 of [4].

Table 43.1.1-1: Void

43.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 31, for 5 MHz only, specified in [3], which are listed in Table B.2.1-1 of [4].

Table 43.1.2-1: Void

43.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the subset of demodulation performance and CSI reporting requirements specified in [2], which are listed in Table 43.1.3-2.

Table 43.1.3-1: Void

Table 43.1.3-2: Demodulation performance and CSI reporting requirements for Band 31 UE

Section / Clause	Description	Test case
8.2.1.1.1	Single-antenna port performance	6, 7, 8
8.2.1.2.1	Transmit diversity performance	1
8.2.1.3.1	Open-loop spatial multiplexing performance	2
8.2.1.4.1	Closed-loop spatial multiplexing performance	1A
8.2.1.4.2	Closed-loop spatial multiplexing performance	2A
8.5.1.2.1	Demodulation of PHICH	1A
9.2.1.1	CQI reporting definition under AWGN conditions	Table 9.2.1.1-2
9.3.2.1.1	CQI reporting under fading conditions	Table 9.3.2.1.1-3

44 CA configuration CA_1A-8A Independent of Release

CA configuration CA_1A-8A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-8A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

44.1 CA_1A-8A UE with single uplink

UEs that conform to Release 11 and support CA_1A-8A shall support the following requirements in Release 12.

44.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 44.1.1-1: Void

44.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-8A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 44.1.2-1: Void

44.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

44.2 CA_1A-8A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-8A with dual uplink shall support the following requirements in Release 12.

44.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 44.2.1-1: Void

44.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-8A specified in [3], which are listed in Table B.2.5-1 of [4].

44.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

45 CA configuration CA_2A-13A Independent of Release

CA configuration CA_2A-13A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_2A-13A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

45.1 CA_2A-13A UE with single uplink

UEs that conform to Release 11 and support CA_2A-13A shall support the following requirements in Release 12.

45.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 45.1.1-1: Void

45.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-13A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 45.1.2-1: Void

45.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

45.2 CA_2A-13A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-13A with dual uplink shall support the following requirements in Release 12.

45.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-13A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 45.2.1-1: Void

45.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-13A specified in [3], which are listed in Table B.2.5-1 of [4].

45.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

46 CA configuration CA_3A-19A Independent of Release

CA configuration CA_3A-19A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-19A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

46.1 CA_3A-19A UE with single uplink

UEs that conform to Release 11 and support CA_3A-19A shall support the following requirements in Release 12.

46.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 46.1.1-1: Void

46.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-19A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 46.1.2-1: Void

46.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

46.2 CA_3A-19A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-19A with dual uplink shall support the following requirements in Release 12.

46.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 46.2.1-1: Void

46.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-19A specified in [3], which are listed in Table B.2.5-1 of [4].

46.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

47 CA configuration CA_3A-26A Independent of Release

CA configuration CA_3A-26A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-26A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

47.1 CA_3A-26A UE with single uplink

UEs that conform to Release 11 and support CA_3A-26A shall support the following requirements in Release 12.

47.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-26A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 47.1.1-1: Void

47.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-26A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 47.1.2-1: Void

47.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

47.2 CA_3A-26A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-26A with dual uplink shall support the following requirements in Release 12.

47.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-26A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 47.2.1-1: Void

47.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-26A specified in [3], which are listed in Table B.2.5-1 of [4].

47.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

48 CA configuration CA_3A-28A Independent of Release

CA configuration CA_3A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

48.1 CA_3A-28A UE

UEs that conform to Release 11 and support CA_3A-28A shall support the following requirements in Release 12.

48.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 48.1.1-1: Void

48.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 48.1.2-1: Void

48.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

49 CA configuration CA_19A-21A Independent of Release

CA configuration CA_19A-21A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-26A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

49.1 CA_19A-21A UE with single uplink

UEs that conform to Release 11 and support CA_19A-21A shall support the following requirements in Release 12.

49.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 49.1.1-1: Void

49.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-21A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 49.1.2-1: Void

49.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

49.2 CA 19A-21A UE with dual uplink

UEs that conform to Release 11 and support CA_19A-21A with dual uplink shall support the following requirements in Release 12.

49.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 49.2.1-1: Void

49.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-21A specified in [3], which are listed in Table B.2.5-1 of [4].

49.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

50 CA configuration CA_23A-29A Independent of Release

CA configuration CA_23A-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

50.1 CA 23A-29A UE

UEs that conform to Release 11 and support CA_23A-29A shall support the following requirements in Release 12.

50.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23A-29A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 50.1.1-1: Void

50.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23A-29A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 50.1.2-1: Void

50.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

51 CA configuration CA_4A-4A Independent of Release

CA configuration CA_4A-4A with 2UL/2DL is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

51.1 Void

51.1.1 Void

], whichTable 51.1.1-1: Void

51.1.2 Void

], whichTable 51.1.2-1: Void

51.1.3 Void

51.2 CA_4A-4A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-4A with dual uplink shall support the following requirements in Release 12.

51.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A specified in [2], which are listed in Table B.4.7-1 of [4].

51.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A specified in [3], which are listed in Table B.2.6-1 of [4].

51.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A among the CA demodulation performance and CSI reporting requirements specified in [2].

52 CA configuration CA_3C Independent of Release

CA configuration CA_3C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

52.1 CA_3C UE

UEs that conform to Release 11 and support CA_3C shall support the following requirements in Release 12.

52.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 52.1.1-1: Void

52.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3C specified in [3], which are listed in Table B.2.2-1 of [4].

Table 52.1.1-2: Void

52.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

53 CA configuration CA_1A-26A Independent of Release

CA configuration CA_1A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

53.1 CA_1A-26A UE

UEs that conform to Release 11 and support CA_1A-26A shall support the following requirements in Release 12.

53.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-26A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 53.1.1-1: Void

53.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-26A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 53.1.2-1: Void

53.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

54 CA configuration CA_2A-4A Independent of Release

CA configuration CA_2A-4A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_2A-4A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

54.1 CA_2A-4A UE with single uplink

UEs that conform to Release 11 and support CA_2A-4A shall support the following requirements in Release 12.

54.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 54.1.1-1: Void

54.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 54.1.2-1: Void

54.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

54.2 CA_2A-4A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-4A with dual uplink shall support the following requirements in Release 12.

54.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 54.2.1-1: Void

54.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A specified in [3], which are listed in Table B.2.5-1 of [4].

54.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

55 CA configuration CA_2A-5A Independent of Release

CA configuration CA_2A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

55.1 CA_2A-5A UE

UEs that conform to Release 11 and support CA 2A-5A shall support the following requirements in Release 12.

55.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 55.1.1-1: Void

55.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 55.1.2-1: Void

55.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

56 CA configuration CA_23B Independent of Release

CA configuration CA_23B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

56.1 CA_23B UE

UEs that conform to Release 11 and support CA_23B shall support the following requirements in Release 12.

56.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23B specified in [2], which are listed in Table B.4.2-1 of [4].

Table 56.1.1-1: Void

56.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23B specified in [3], which are listed in Table B.2.2-1 of [4].

Table 56.1.2-1: Void

56.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

57 CA configuration CA_27B Independent of Release

CA configuration CA_27B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

57.1 CA_27B UE

UEs that conform to Release 11 and support CA_27B shall support the following requirements in Release 12.

57.1.1 RF Requirements

The UE shall comply with the RF requirements for CA 27B specified in [2], which are listed in Table B.4.2-1 of [4].

Table 57.1.1-1: Void

57.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_27B specified in [3], which are listed in Table B.2.2-1 of [4].

Table 57.1.2-1: Void

57.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_27B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

58 CA configuration CA_2A-12A Independent of Release

CA configuration CA_2A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

58.1 CA 2A-12A UE

UEs that conform to Release 11 and support CA_2A-12A shall support the following requirements in Release 12.

58.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 58.1.1-1: Void

58.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 58.1.2-1: Void

58.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

59 CA configuration CA_5A-7A Independent of Release

CA configuration CA_5A-7A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_5A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

59.1 CA_5A-7A UE with single uplink

UEs that conform to Release 11 and support CA_5A-7A shall support the following requirements in Release 12.

59.1.1 RF Requirements

The UE shall comply with the RF requirements for CA 5A-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 59.1.1-1: Void

59.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-7A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 59.1.2-1: Void

59.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

59.2 CA_5A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_5A-7A with dual uplink shall support the following requirements in Release 12.

59.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 59.2.1-1: Void

59.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

59.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

60 CA configuration CA_5A-25A Independent of Release

CA configuration CA_5A-25A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

60.1 CA 5A-25A UE

UEs that conform to Release 11 and support CA_5A-25A shall support the following requirements in Release 12.

60.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-25A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 60.1.1-1: Void

60.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-25A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 60.1.2-1: Void

60.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-25A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

61 CA configuration CA_7A-28A Independent of Release

 $CA\ configuration\ CA_7A-28A\ with\ 1UL/2DLs\ is\ specified\ in\ Release\ 12\ but\ is\ defined\ as\ a\ release-independent\ CA\ configuration\ for\ Rel-10\ upwards.$

CA configuration CA_7A-28A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

61.1 CA_7A-28A UE with single uplink

UEs that conform to Release 11 and support CA_7A-28A shall support the following requirements in Release 12.

61.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-28A specified in [2], which are listed in Table B.4.3-1 of [4]

Table 61.1.1-1: Void

61.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

61.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

61.2 CA_7A-28A UE with dual uplink

UEs that conform to Release 11 and support CA_7A-28A with dual uplink shall support the following requirements in Release 12.

61.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-28A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 61.2.1-1: Void

61.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-28A specified in [3], which are listed in Table B.2.5-1 of [4].

61.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

62 CA configuration CA_12A-25A Independent of Release

CA configuration $CA_{12A-25A}$ is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

62.1 CA 12A-25A UE

UEs that conform to Release 11 and support CA_12A-25A shall support the following requirements in Release 12.

62.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12A-25A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 62.1.1-1: Void

62.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_12A-25A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 62.1.2-1: Void

62.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12A-25A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

63 CA configuration CA_3A-3A Independent of Release

CA configuration CA_3A-3A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

63.1 CA_3A-3A UE

UEs that conform to Release 11 and support CA_3A-3A shall support the following requirements in Release 12.

63.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-3A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 63.1.1-1: Void

63.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-3A specified in [3], which are listed in Table B.2.3-1 of [4].

Table 63.1.2-1: Void

63.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-3A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

64 CA configuration CA_7A-7A Independent of Release

CA configuration CA_7A-7A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

64.1 CA 7A-7A UE

UEs that conform to Release 11 and support CA_7A-7A shall support the following requirements in Release 12.

64.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-7A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 64.1.1-1: Void

64.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-7A specified in [3], which are listed in Table B.2.3-1 of [4].

64.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

65 CA configuration CA_23A-23A Independent of Release

CA configuration CA_23A-23A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

65.1 CA_23A-23A UE

UEs that conform to Release 11 and support CA_23A-23A shall support the following requirements in Release 12.

65.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23A-23A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 65.1.1-1: Void

65.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23A-23A specified in [3], which are listed in Table B.2.3-1 of [4].

Table 65.1.2-1: Void

65.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23A-23A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

66 CA configuration CA_3A-27A Independent of Release

CA configuration CA_3A-27A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

66.1 CA 3A-27A UE

UEs that conform to Release 11 and support CA_3A-27A shall support the following requirements in Release 12.

66.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-27A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 66.1.1-1: Void

66.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-27A specified in [3], which are listed in Table B.2.4-1 of [4].

66.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-27A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

67 CA configuration CA_39C Independent of Release

CA configuration CA_39C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

67.1 CA_39C UE

UEs that conform to Release 11 and support CA_39C shall support the following requirements in Release 12.

67.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 67.1.1-1: Void

67.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_39C specified in [3], which are listed in Table B.2.2-1 of [4].

67.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

68 CA configuration CA_39A-41A Independent of Release

CA configuration CA_39A-41A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_39A-41A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards

68.1 CA_39A-41A UE with single uplink

UEs that conform to Release 11 and support CA_39A-41A shall support the following requirements in Release 12.

68.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 68.1.1-1: Void

68.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41A specified in [3], which are listed in Table B.2.4-1 of [4].

68.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

68.2 CA_39A-41A UE with dual uplink

UEs that conform to Release 11 and support CA_39A-41A with dual uplink shall support the following requirements in Release 12.

68.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 68.2.1-1: Void

68.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41A specified in [3], which are listed in Table B.2.5-1 of [4].

68.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

69 Void

70 CA configuration CA_1A-5A Independent of Release

 $CA\ configuration\ CA_1A-5A\ with\ 1UL/2DLs\ to\ support\ band\ combination\ set\ 1\ is\ specified\ in\ Release\ 12\ but\ is\ defined\ as\ a\ release-independent\ CA\ configuration\ for\ Rel-10\ upwards.$

CA configuration CA_1A-5A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

70.1 CA_1A-5A UE with single uplink

UEs that conform to Release 11 and support CA_1A-5A shall support the following requirements in Release 12.

70.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 70.1.1-1: Void

70.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 70.1.2-1: Void

70.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

70.2 CA_1A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-5A with dual uplink shall support the following requirements in Release 12.

70.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 70.2.1-1: Void

70.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A specified in [3], which are listed in Table B.2.5-1 of [4].

70.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

71 CA configuration CA_1A-11A Independent of Release

CA configuration CA_1A-11A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

71.1 CA_1A-11A UE

UEs that conform to Release 11 and support CA 1A-11A shall support the following requirements in Release 12.

71.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-11A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 71.1.1-1: Void

71.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-11A specified in [3], which are listed in Table B.2.4-1 of [4].

71.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-11A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4]

72 CA configuration CA_1A-20A Independent of Release

CA configuration CA_1A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

72.1 CA 1A-20A UE

UEs that conform to Release 11 and support CA_1A-20A shall support the following requirements in Release 12.

72.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 72.1.1-1: Void

72.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 72.1.2-1: Void

72.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

73 CA configuration CA_4A-27A Independent of Release

CA configuration CA_4A-27A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

73.1 CA_4A-27A UE

UEs that conform to Release 11 and support CA_4A-27A shall support the following requirements in Release 12.

73.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-27A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 73.1.1-1: Void

73.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-27A specified in [3], which are listed in Table B.2.4-1 of [4].

73.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-27A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

74 CA configuration CA_20A-32A Independent of Release

CA configuration CA_20A-32A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

74.1 CA 23A-29A UE

UEs that conform to Release 11 and support CA_20A-32A shall support the following requirements in Release 12.

74.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-32A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 74.1.1-1: Void

74.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-32A specified in [3], which are listed in Table B.2.4-1 of [4].

74.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-32A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

75 CA configuration CA_41D Independent of Release

CA configuration CA_41D is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

75.1 CA_41D UE

UEs that conform to Release 11 and support CA_41D shall support the following requirements in Release 12.

75.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41D specified in [2], which are listed in Table B.4.2-1 of [4].

Table 75.1.1-1: Void

75.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41D specified in [3], which are listed in Table B.2.2-1 of [4].

75.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41D among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

76 CA configuration CA_42C Independent of Release

CA configuration CA_42C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

76.1 CA 42C UE

UEs that conform to Release 11 and support CA_42C shall support the following requirements in Release 12.

76.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42C specified in [2], which are listed in Table B.4.2-1 of [4].

76.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_42C specified in [3], which are listed in Table B.2.2-1 of [4].

76.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

77 CA configuration CA_42A-42A Independent of Release

CA configuration CA_42A-42A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

77.1 CA 42A-42A UE

UEs that conform to Release 11 and support CA_42A-42A shall support the following requirements in Release 12.

77.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42A-42A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 75.1.1-1: Void

77.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_42A-42A specified in [3], which are listed in Table B.2.3-1 of [4].

77.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42A-42A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

78 CA configuration CA_2A-2A Independent of Release

CA configuration CA_2A-2A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

78.1 CA_2A-2A UE

UEs that conform to Release 11 and support CA_2A-2A shall support the following requirements in Release 12.

78.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 78.1.1-1: Void

78.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA_2A-2A specified in Annex B.2.3.

78.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

79 CA configuration CA_40C Independent of Release

CA_40C is specified in Release 10, Release 11 and Release 12. It is defined as a release-independent CA configuration for Rel-10 upwards.

79.1 CA_40C UE

UEs that conform to Release 11 and support CA_40C shall support the following requirements in Release 12 for both one uplink and simultaneous transmission on two uplinks.

79.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_40C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 79.1.1-1: Void

79.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_40C specified in [3], which are listed in Table B.2.2-1 of [4].

79.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

80 CA configuration CA_8A-11A Independent of Release

CA configuration CA_8A-11A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

80.1 CA_8A-11A UE

UEs that conform to Release 11 and support CA 8A-11A shall support the following requirements in Release 12.

80.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8A-11A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 80.1.1-1: Void

80.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_8A-11A specified in [3], which are listed in Table B.2.4-1 of [4].

80.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8A-11A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

CA configuration CA_41A-42A Independent of Release

CA configuration CA_41A-42A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

81.1 CA 41A-42A UE

UEs that conform to Release 11 and support CA_41A-42A shall support the following requirements in Release 12.

81.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41A-42A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 81.1.1-1: Void

81.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41A-42A specified in [3], which are listed in Table B.2.4-1 of [4].

81.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41A-42A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

82 CA configuration CA_18A-28A Independent of Release

CA configuration CA_18A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

82.1 CA_18A-28A UE

UEs that conform to Release 11 and support CA_18A-28A shall support the following requirements in Release 12.

82.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_18A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 82.1.1-1: Void

82.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_18A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

82.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_18A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

CA configuration CA_1A-5A-7A Independent of Release

CA configuration CA_1A-5A-7A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

83.1 CA 1A-5A-7A UE

UEs that conform to Release 11 and support CA_1A-5A-7A shall support the following requirements in Release 12.

83.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 83.1.1-1: Void

83.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A-7A specified in [3].

83.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

84 CA configuration CA_1A-3A-5A Independent of Release

CA configuration CA_1A-3A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

84.1 CA_1A-3A-5A UE

UEs that conform to Release 11 and support CA_1A-3A-5A shall support the following requirements in Release 12.

84.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 84.1.1-1: Void

84.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-5A specified in [3].

84.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

85 CA configuration CA_1A-3A-8A Independent of Release

CA configuration CA_1A-3A-8A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

85.1 CA 1A-3A-8A UE

UEs that conform to Release 11 and support CA_1A-3A-8A shall support the following requirements in Release 12.

85.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 85.1.1-1: Void

85.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A specified in [3].

85.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

86 CA configuration CA_1A-3A-19A Independent of Release

CA configuration CA_1A-3A-19A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

86.1 CA_1A-3A-19A UE

UEs that conform to Release 11 and support CA_1A-3A-19A shall support the following requirements in Release 12.

86.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-19A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 86.1.1-1: Void

86.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A specified in [3], which are listed in Table B.2.4-1 of [4].

86.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

87 CA configuration CA_1A-3A-20A Independent of Release

CA configuration CA_1A-3A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

87.1 CA_1A-3A-20A UE

UEs that conform to Release 11 and support CA 1A-3A-20A shall support the following requirements in Release 12.

87.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 87.1.1-1: Void

87.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

87.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

88 CA configuration CA_1A-3A Independent of Release

CA configuration CA_1A-3A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-3A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

88.1 CA_1A-3A UE with single uplink

UEs that conform to Release 11 and support CA_1A-3A shall support the following requirements in Release 12.

88.1.1 RF Requirements

The UE shall comply with the RF requirements for CA 1A-3A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 88.1.1-1: Void

88.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A specified in [3], which are listed in Table B.2.4-1 of [4].

88.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

88.2 CA_1A-3A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-3A with dual uplink shall support the following requirements in Release 12.

88.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 88.2.1-1: Void

88.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A specified in [3], which are listed in Table B.2.5-1 of [4].

88.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

89 CA configuration CA_1A-7A-20A Independent of Release

CA configuration CA_1A-7A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

89.1 CA_1A-7A-20A UE

UEs that conform to Release 11 and support CA_1A-7A-20A shall support the following requirements in Release 12.

89.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 89.1.1-1: Void

89.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

89.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

90 CA configuration CA_1A-7A Independent of Release

CA configuration CA_1A-7A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

90.1 CA_1A-7A UE with single uplink

UEs that conform to Release 11 and support CA_1A-7A shall support the following requirements in Release 12.

90.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 90.1.1-1: Void

90.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A specified in [3], which are listed in Table B.2.4-1 of [4].

90.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

90.2 CA_1A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-7A with dual uplink shall support the following requirements in Release 12.

90.2.1 RF Requirements

The UE shall comply with the RF requirements for CA 1A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 90.2.1-1: Void

90.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

90.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

91 CA configuration CA_1A-19A-21A Independent of Release

CA configuration CA_1A-19A-21A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

91.1 CA_1A-19A-21A UE

UEs that conform to Release 11 and support CA_1A-19A-21A shall support the following requirements in Release 12.

91.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-21A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 91.1.1-1: Void

91.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA 1A-19A-21A specified in [3].

91.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-21A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

92 CA configuration CA_2A-2A-13A Independent of Release

CA configuration CA_2A-2A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

92.1 CA 2A-2A-13A UE

UEs that conform to Release 11 and support CA_2A-2A-13A shall support the following requirements in Release 12.

92.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 92.1.1-1: Void

92.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-13A specified in [3].

92.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

93 CA configuration CA_2A-4A-5A Independent of Release

CA configuration CA_2A-4A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

93.1 CA 2A-4A-5A UE

UEs that conform to Release 11 and support CA 2A-4A-5A shall support the following requirements in Release 12.

93.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 93.1.1-1: Void

93.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A specified in [3].

93.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

94 CA configuration CA_2A-4A-13A Independent of Release

CA configuration CA_2A-4A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

94.1 CA 2A-4A-13A UE

UEs that conform to Release 11 and support CA_2A-4A-13A shall support the following requirements in Release 12.

94.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 94.1.1-1: Void

94.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-13A specified in [3].

94.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

95 CA configuration CA_2A-4A-12A Independent of Release

CA configuration CA_2A-4A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

95.1 CA 2A-4A-12A UE

UEs that conform to Release 11 and support CA_2A-4A-12A shall support the following requirements in Release 12.

95.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 95.1.1-1: Void

95.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-12A specified in [3].

95.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

96 CA configuration CA_2A-12B Independent of Release

CA configuration CA_2A-12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

96.1 CA 2A-12B UE

UEs that conform to Release 11 and support CA_2A-12B shall support the following requirements in Release 12.

96.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12B specified in [2], which are listed in Table B.4.3-1 of [4].

Table 96.1.1-1: Void

96.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12B specified in [3].

96.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

97 CA configuration CA_3A-7C Independent of Release

CA configuration CA_3A-7C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

97.1 CA_3A-7C UE

UEs that conform to Release 11 and support CA_3A-7C shall support the following requirements in Release 12.

97.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7C specified in [2], which are listed in Table B.4.3-1 of [4].

Table 97.1.1-1: Void

97.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C specified in [3].

97.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

98 CA configuration CA_3A-7A-20A Independent of Release

CA configuration CA_3A-7A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

98.1 CA 3A-7A-20A UE

UEs that conform to Release 11 and support CA_3A-7A-20A shall support the following requirements in Release 12.

98.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 98.1.1-1: Void

98.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-20A specified in [3].

98.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

99 CA configuration CA_4A-4A-13A Independent of Release

CA configuration CA_4A-4A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

99.1 CA_4A-4A-13A UE

UEs that conform to Release 11 and support CA_4A-4A-13A shall support the following requirements in Release 12.

99.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 99.1.1-1: Void

99.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-13A specified in [3].

99.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

100 CA configuration CA_4A-12B Independent of Release

CA configuration CA_4A-12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

100.1 CA_4A-12B UE

UEs that conform to Release 11 and support CA_4A-12B shall support the following requirements in Release 12.

100.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12B specified in [2], which are listed in Table B.4.3-1 of [4].

Table 100.1.1-1: Void

100.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12B specified in [3].

100.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

101 CA configuration CA_12B Independent of Release

CA configuration CA_12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

101.1 CA_12B UE

UEs that conform to Release 11 and support CA_12B shall support the following requirements in Release 12.

101.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12B specified in [2], which are listed in Table B.4.2-1 of [4].

Table 101.1.1-1: Void

101.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_12B specified in [3], which are listed in Table B.2.2-1 of [4].

101.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

102 CA configuration CA_2A-4A-4A Independent of Release

CA configuration CA_2A-4A-4A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

102.1 CA 2A-4A-4A UE

UEs that conform to Release 11 and support CA_2A-4A-4A shall support the following requirements in Release 12.

102.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-4A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 102.1.1-1: Void

102.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-4A specified in [3].

102.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-4A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

103 CA configuration CA_4A-4A-12A Independent of Release

CA configuration CA_4A-4A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

103.1 CA_4A-4A-12A UE

UEs that conform to Release 11 and support CA_4A-4A-12A shall support the following requirements in Release 12.

103.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 103.1.1-1: Void

103.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-12A specified in [3].

103.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

104 CA configuration CA_3C-7A Independent of Release

CA configuration CA_3C-7A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

104.1 CA 3C-7A UE

UEs that conform to Release 11 and support CA_3C-7A shall support the following requirements in Release 12.

104.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 104.1.1-1: Void

104.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-7A specified in [3].

104.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

105 CA configuration CA_2A-5A-12A Independent of Release

CA configuration CA_2A-5A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

105.1 CA_2A-5A-12A UE

UEs that conform to Release 11 and support CA_4A-4A-12A shall support the following requirements in Release 12.

105.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 105.1.1-1: Void

105.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-12A specified in [3].

105.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

106 CA configuration CA_4A-5A-12A Independent of Release

CA configuration CA_4A-5A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

106.1 CA_4A-5A-12A UE

UEs that conform to Release 11 and support CA_2A-4A-12A shall support the following requirements in Release 12.

106.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 106.1.1-1: Void

106.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-12A specified in [3].

106.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

107 CA configuration CA_2A-5A-30A Independent of Release

CA configuration CA_2A-5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

107.1 CA_2A-5A-30A UE

UEs that conform to Release 11 and support CA_2A-5A-30A shall support the following requirements in Release 12.

107.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 107.1.1-1: Void

107.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-30A specified in [3].

107.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

108 CA configuration CA_2A-12A-30A Independent of Release

CA configuration CA_2A-12A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

108.1 CA 2A-12A-30A UE

UEs that conform to Release 11 and support CA_2A-12A-30A shall support the following requirements in Release 12.

108.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 108.1.1-1: Void

108.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A-30A specified in [3].

108.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

109 CA configuration CA_2A-29A-30A Independent of Release

CA configuration CA_2A-29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

109.1 CA_2A-29A-30A UE

UEs that conform to Release 11 and support CA_2A-29A-30A shall support the following requirements in Release 12.

109.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-29A-30A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 109.1.1-1: Void

109.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-29A-30A specified in [3].

109.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-29A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

110 CA configuration CA_4A-5A-30A Independent of Release

CA configuration CA_4A-5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

110.1 CA 4A-5A-30A UE

UEs that conform to Release 11 and support CA_4A-5A-30A shall support the following requirements in Release 12.

110.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 110.1.1-1: Void

110.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-30A specified in [3].

110.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

111 CA configuration CA_4A-12A-30A Independent of Release

CA configuration CA_4A-12A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

111.1 CA 4A-12A-30A UE

UEs that conform to Release 11 and support CA_4A-12A-30A shall support the following requirements in Release 12.

111.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 111.1.1-1: Void

111.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A-30A specified in [3].

111.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

112 CA configuration CA_4A-29A-30A Independent of Release

CA configuration CA_4A-29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

112.1 CA 4A-29A-30A UE

UEs that conform to Release 11 and support CA_4A-29A-30A shall support the following requirements in Release 12.

112.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-29A-30A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 112.1.1-1: Void

112.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-92A-30A specified in [3].

112.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-92A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

113 CA configuration CA_2A-30A Independent of Release

CA configuration CA_2A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

113.1 CA 2A-30A UE

UEs that conform to Release 11 and support CA_2A-30A shall support the following requirements in Release 12.

113.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 113.1.1-1: Void

113.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

113.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

114 CA configuration CA_4A-30A Independent of Release

CA configuration CA_4A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

114.1 CA_4A-30A UE

UEs that conform to Release 11 and support CA_4A-30A shall support the following requirements in Release 12.

114.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 114.1.1-1: Void

114.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

114.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

115 CA configuration CA_5A-30A Independent of Release

CA configuration CA_5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

115.1 CA_5A-30A UE

UEs that conform to Release 11 and support CA_5A-30A shall support the following requirements in Release 12.

115.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 115.1.1-1: Void

115.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

115.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

116 CA configuration CA_12A-30A Independent of Release

CA configuration CA_12A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

116.1 CA_12A-30A UE

UEs that conform to Release 11 and support CA 2A-30A shall support the following requirements in Release 12.

116.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 116.1.1-1: Void

116.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_12A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

116.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

117 CA configuration CA_29A-30A Independent of Release

CA configuration CA_29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

117.1 CA_29A-30A UE

UEs that conform to Release 11 and support CA_29A-30A shall support the following requirements in Release 12.

117.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_29A-30A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 117.1.1-1: Void

117.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_29A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

117.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_29A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

118 CA configuration CA_40D Independent of Release

CA configuration CA_40D is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

118.1 CA_40D UE

UEs that conform to Release 11 and support CA_40D shall support the following requirements in Release 12.

118.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_40D specified in [2], which are listed in Table B.4.2-1 of [4].

Table 118.1.1-1: Void

118.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_40D specified in [3], which are listed in Table B.2.2-1 of [4].

118.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40D among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

119 Void

119.1 Void

119.1.1 Void

Table 119.1.1-1: Void

119.1.2 Void

119.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

120 CA configuration CA_25A-25A Independent of Release

CA configuration CA_25A-25A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

120.1 CA 25A-25A UE

UEs that conform to Release 11 and support CA_25A-25A shall support the following requirements in Release 12.

120.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_25A-25A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 120.1.1-1: Void

120.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-25A specified in [3], which are listed in Table B.2.3-1 of [4].

120.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_25A-25A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

121 CA configuration CA_41C-41A and CA_41A-41C Independent of Release

CA configurations CA_41C-41A and CA_41A-41C are specified in Release 12 but are defined as release-independent CA configurations for Rel-11 upwards for UE Categories specified in [7].

121.1 CA_41C-41A and CA_41A-41C UE

UEs that conform to Release 11 and support CA_41C-41A and CA_41A-41C shall support the following requirements in Release 12.

121.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41C-41A and CA_41A-41C specified in [2], which are listed in Table B.4.3-1 of [4].

Table 121.1.1-1:

121.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-41A and CA_41A-41C specified in [3], which are listed in Table B.2.2-1 of [4].

121.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

122 CA configuration CA_1A-28A Independent of Release

CA configuration CA_1A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

122.1 CA_1A-28A UE

UEs that conform to Release 11 and support CA_1A-28A shall support the following requirements in Release 12.

122.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

122.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

122.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

123 CA configuration CA_5A-13A Independent of Release

CA configuration CA_5A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

123.1 CA 5A-13A UE

UEs that conform to Release 11 and support CA_5A-13A shall support the following requirements in Release 12.

123.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

123.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-13A specified in [3], which are listed in Table B.2.4-1 of [4].

123.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-13A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

124 CA configuration CA_1A-3A-26A Independent of Release

CA configuration CA_1A-3A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

124.1 CA_1A-3A-26A UE

UEs that conform to Release 11 and support CA_1A-3A-26A shall support the following requirements in Release 12.

124.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-26A specified in [2], which are listed in Table B.4.3-1 of [4].

124.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-26A specified in [3].

124.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

125 CA configuration CA_2C Independent of Release

CA configuration CA_2C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

125.1 CA_2C UE

UEs that conform to Release 11 and support CA_2C shall support the following requirements in Release 12.

125.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C specified in [2], which are listed in Table B.4.2-1 of [4].

125.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C specified in [3], which are listed in Table B.2.2-1 of [4].

125.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [4].

126 CA configuration CA_2C-29A Independent of Release

CA configuration CA_2C-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

126.1 CA_2C-29A UE

UEs that conform to Release 11 and support CA_2C-29A shall support the following requirements in Release 12.

126.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-29A specified in [2], which are listed in Table B.4.3-1 of [4].

126.1.2 RRM Requirements

The UE shall comply with the RRM requirements for 2C-29A specified in [3].

126.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for 2C-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

127 CA configuration CA_2A-4A-29A Independent of Release

CA configuration CA_2A-4A-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

127.1 CA_2A-4A-29A UE

UEs that conform to Release 11 and support CA 2A-4A-29A shall support the following requirements in Release 12.

127.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-29A specified in [2], which are listed in Table B.4.3-1 of [4].

127.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-29A specified in [3].

127.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

128 CA configuration CA_7A-8A Independent of Release

CA configuration CA_7A-8A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

128.1 CA 7A-8A UE

UEs that conform to Release 11 and support CA_7A-8A shall support the following requirements in Release 12.

128.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

128.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-8A specified in [3], which are listed in Table B.2.4-1 of [4].

128.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-8A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

129 CA configuration CA_7A-8A-20A Independent of Release

CA configuration CA_7A-8A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

129.1 CA_7A-8A-20A UE

UEs that conform to Release 11 and support CA_7A-8A-20A shall support the following requirements in Release 12.

129.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-8A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

129.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-8A-20A specified in [3].

129.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-8A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

130 CA configuration CA_39C-41A Independent of Release

CA configuration CA_39C-41A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

130.1 CA_39C-41A UE

UEs that conform to Release 11 and support CA_39C-41A shall support the following requirements in Release 12.

130.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C-41A specified in [2], which are listed in Table B.4.3-1 of [4].

130.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41A specified in [3].

130.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

131 CA configuration CA_39A-41C Independent of Release

CA configuration CA_39A-41C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

131.1 CA 39A-41C UE

UEs that conform to Release 11 and support 39A-41C shall support the following requirements in Release 12.

131.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41C specified in [2], which are listed in Table B.4.3-1 of [4].

131.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41C specified in [3].

131.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4]

132 CA configuration CA_7A-12A Independent of Release

CA configuration CA_7A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

132.1 CA_7A-12A UE

UEs that conform to Release 11 and support CA 7A-12A shall support the following requirements in Release 12.

132.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

132.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-12A specified in [3], which are listed in Table B.2.4-1 of [4].

132.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-12A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

133 CA configuration CA_4A-7A-12A Independent of Release

CA configuration CA_4A-7A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

133.1 CA_ 4A-7A-12A UE

UEs that conform to Release 11 and support CA_4A-7A-12A shall support the following requirements in Release 12.

133.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-7A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

133.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A-12A specified in [3].

133.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-7A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

134 CA configuration CA_2A-5A-13A Independent of Release

CA configuration CA_2A-5A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

134.1 CA_ 2A-5A-13A UE

UEs that conform to Release 11 and support CA 2A-5A-13A shall support the following requirements in Release 12.

134.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

134.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-13A specified in [3].

134.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

135 CA configuration CA_4A-5A-13A Independent of Release

CA configuration CA_4A-5A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

135.1 CA_4A-5A-13A UE

UEs that conform to Release 11 and support CA_4A-5A-13A shall support the following requirements in Release 12.

135.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

135.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-13A specified in [3].

135.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

136 CA configuration CA_1A-18A-28A Independent of Release

CA configuration CA_1A-18A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

136.1 CA_1A-18A-28A UE

UEs that conform to Release 11 and support CA 1A-18A-28A shall support the following requirements in Release 12.

136.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

136.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A-28A specified in [3].

136.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

137 CA configuration CA_2A-2A-5A Independent of Release

CA configuration CA_2A-2A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

137.1 CA_ 2A-2A-5A UE

UEs that conform to Release 11 and support CA_2A-2A-5A shall support the following requirements in Release 12.

137.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

137.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-5A specified in [3].

137.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

138 CA configuration CA_4A-4A-5A Independent of Release

CA configuration CA_4A-4A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

138.1 CA_ 4A-4A-5A UE

UEs that conform to Release 11 and support CA 4A-4A-5A shall support the following requirements in Release 12.

138.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

138.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-5A specified in [3].

138.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

139 CA configuration CA_4A-4A-7A Independent of Release

CA configuration CA_4A-4A-7A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

139.1 CA_ 4A-4A-7A UE

UEs that conform to Release 11 and support CA_4A-4A-7A shall support the following requirements in Release 12.

139.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-7A specified in [2], which are listed in Table B.4.3-1 of [4].

139.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-7A specified in [3].

139.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for $CA_4A-4A-7A$ among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4]

Annex A (informative): Frequency arrangement for overlapping operating bands

The following information is provided in order to assist a UE derive the DL EARFCN and UL EARFCN in a multi-band environment, in which multiple overlapping operating bands may be indicated in the fields *freqBandIndicator* and *multiBandInfoList* of SIB1.

The overlapping bands, independent of release, which may be indicated in a cell are shown in Table A-1 for applicable E-UTRA bands. The DL EARFCN and UL EARFCN are derived according to [2].

Table A-1: Overlapping bands (multi-band environments) for each E-UTRA band

E-UTRA Operating Band	Overlapping E-UTRA operating bands	Duplex Mode
2	25	FDD
3	9	FDD
4	10	FDD
5	18, 19, 26	FDD
9	3	FDD
10	4	FDD
12	17	FDD
17	12	FDD
18	5, 26, 27	FDD
19	5, 26	FDD
25	2	FDD
26	5, 18, 19, 27	FDD
27	18, 26	FDD
33	39	TDD
38	41	TDD
39	33	TDD
41	38	TDD

Annex B (normative): Common Requirements

B.1 Purpose of annex

The purpose of Annex B is to group the requirements that are common for several bands or CA configurations in this specification and use the common tables as references.

B.2 Common RRM requirements

B.2.1 Common RRM requirements for a band independent of release

The requirements and test cases listed in Table B.2.1-1 are specified in [5].

Table B.2.1-1: Common RRM requirements for a band independent of release

Section / Clause	Description
4 Note 1	E-UTRAN RRC_IDLE state mobility
5	E-UTRAN RRC_CONNECTED state mobility
6 Note 2	RRC Connection Mobility Control
7 Note 3	Timing and signalling characteristics
8 Note 4	UE Measurements Procedures in RRC_CONNECTED State
9 Note 5	Measurements performance requirements for UE
A.4 Note 1	E-UTRAN RRC_IDLE state
A.5	E-UTRAN RRC CONNECTED Mode Mobility
A.6 Note 2	RRC Connection Control
A.7 Note 3	Timing and Signalling Characteristics
A.8 Note 4	UE Measurements Procedures
A.9 Note 5	Measurement Performance Requirements

- NOTE 1: All requirements and the corresponding test cases shall apply, except:
 - for supporting the corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests).
- NOTE 2: All requirements and the corresponding test cases shall apply, except:
 - for supporting the corresponding band in Rel-8: clauses 6.3 (RRC Connection Release with Redirection), 6.4 (CSG Proximity Indication for E-UTRAN and UTRAN).
- NOTE 3: All requirements and corresponding test cases shall apply, except those defined in sections 7.4 and 7.5.
- NOTE 4: All requirements and corresponding test cases shall apply, except:
 - for supporting the corresponding band in Rel-8: clauses 8.1.2.5 (E-UTRAN OTDOA Intra-Frequency RSTD Measurements), 8.1.2.6 (E-UTRAN Inter-Frequency OTDOA Measurements), 8.1.2.7 (E-UTRAN E-CID Measurements).
- NOTE 5: All requirements and corresponding test cases shall apply, except:
 - for supporting the corresponding band in Rel-8: clauses 9.1.9 (UE Rx–Tx time difference), 9.1.10 (Reference Signal Time Difference).
- NOTE 6: All requirements and test cases in this table shall apply, except those defined for: carrier aggregation; measurements under time-domain measurement resource restriction with or without CRS assistance information, in addition to the exceptions listed above.

B.2.2 Common RRM requirements for an intra-band contiguous CA configuration

The requirements and test cases listed in Table B.2.2-1 are specified in [5].

Table B.2.2-1: Common RRM requirements for a single-band CA configuration independent of release

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE: Only requirements	and test cases defined for intra-band contiguous carrier aggregation shall apply.

B.2.3 Common RRM requirements for an intra-band noncontiguous CA configuration

The requirements and test cases listed in Table B.2.3-1 are specified in [5].

Table B.2.3-1: Common RRM requirements for a single-band CA configuration independent of release

Section / Clause	Description		
7.1	UE transmit timing		
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation		
7.8	Interruptions with Carrier Aggregation		
8.2	Capabilities for Support of Event Triggering and Reporting Criteria		
8.3	Measurements for E-UTRA carrier aggregation		
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation		
9.1.11	Carrier aggregation measurement accuracy		
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation		
A.7	Timing and Signalling Characteristics		
A.8	UE Measurements Procedures		
A.9	Measurement Performance Requirements		
NOTE: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation shall apply.			

Editor"s note: references to this section are to be revisited when intra-band non-contiguous CA requirements are finalized in TS 36.101.

B.2.4 Common RRM requirements for an inter-band CA configuration

The requirements and test cases listed in Table B.2.4-1 are specified in [5].

Table B.2.4-1: Common RRM requirements for a band-combination CA configuration

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE: Only requirement	s and test cases defined for inter-band carrier aggregation shall apply.

B.3 Common UE performance requirements

B.3.1 Void

Table B.3.1-1: Void

B.3.2 Common UE performance requirements and tests for different CA configurations and combination sets

The requirements and test cases listed in Table B.3.2-1 are specified in [6].

Table B.3.2-1: Common UE performance requirements and tests for different CA configurations and combination sets

Section / Clause	Description
8.2.1.1.1	Single-antenna port performance (FDD)
8.2.2.1.1	Single-antenna port performance (TDD)
8.2.1.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (FDD)
8.2.2.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (TDD)
8.2.1.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (FDD)
8.2.2.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (TDD)
8.2.1.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (FDD)
8.2.2.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD)
8.2.1.7	Carrier aggregation with power imbalance (FDD)
8.2.2.7	Carrier aggregation with power imbalance (TDD)
8.2.1.8	Intra-band non-contiguous carrier aggregation with timing offset (FDD)
8.7.1	Sustained downlink data rate provided by lower layers (FDD)
8.7.2	Sustained downlink data rate provided by lower layers (TDD)
9.6.1.1	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (FDD)
9.6.1.2	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (TDD)
Section 8.1.2.3 and	
Note 2: The test coverage f	or different number of component carriers is defined in 8.1.2.4 in [2].

B.3.3 Void

Table B.3.3-1: Void

B.3.4 Void

B.4 Common UE RF requirements

B.4.1 Common UE RF requirements for a band independent of release

The requirements and test cases listed in Table B.4.1-1 are specified in [6].

Table B.4.1-1: Common UE RF requirements for a band independent of releaseSection / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.5 (NOTE)	Transmit signal quality
6.6	Output RF spectrum emissions
6.7	Transmit intermodulation
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent Channel Selectivity (ACS)
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics
7.9	RX spurious emissions
NOTE: Requirements in section 6.5.2	.2.1 and 6.5.2.3.1 as specified in [8] apply

B.4.2 Common UE RF requirements for an intra-band contiguous CA configuration

The requirements and test cases listed in Table B.4.2-1 are specified in [6].

Table B.4.2-1: Common UE RF requirements for an intra-band contiguous CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A	Channel bandwidths per operating band for CA
5.7.1A	Channel spacing for CA
5.7.2A	Channel raster for CA
5.7.4A	TX–RX frequency separation for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.4A	UE maximum output power with additional requirements for CA
6.2.5A	Configured transmitted power for CA
6.3.2A	UE Minimum utput power for CA
6.3.3A	UE Trasnsmit OFF power for CA
6.3.4A	ON/OFF time mask for CA
6.3.5A	Power control for CA
6.5.1A	Frequency error for CA
6.5.2A	Transmit modulation quality for CA
6.6.1A	Occupied bandwidth for CA
6.6.2.1A	Spectrum emission mask for CA
6.6.2.2A	Additional Spectrum Emission mask for CA
6.6.2.3.2A	UTRA ACLR for CA
6.6.2.3.3A	E-UTRA ACLR for CA
6.6.3.1A	Minimum requirements for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
6.6.3.3A	Additional spurious emissions for CA
6.7.1A	Minimum requirement for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA
7.10.1A	Receiver response for CA

B.4.3 Common UE RF requirements for an inter-band CA configuration

The requirements and test cases listed in Table B.4.3-1 are specified in [6].

Table B.4.3-1: Common UE RF requirements for an inter-band CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
5.7.2A	Channel raster for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5	Configured transmitted power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

B.4.4 Common UE RF requirements for an inter-band CA configuration including an operating band without uplink band

The requirements and test cases listed in Table B.4.4-1 are specified in [6].

Table B.4.4-1: Common UE RF requirements for an inter-band CA configuration including an operating band without uplink band independent of release

Section / Clause	Description
5.5	Operating bands
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
5.7	Channel arrangement
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5	Configured transmitted power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

B.4.5 Common UE RF requirements for an intra-band noncontiguous CA configuration

The requirements and test cases listed in Table B.4.5-1 are specified in [6].

Table B.4.5-1: Common UE RF requirements for an intra-band non-contiguous CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
5.7.2A	Channel raster for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

Annex C (informative): Change history

Table C.1: Change History

11-2009 RPH46 RP-091141 T\$36.307 VO.1.0 approved by RAN (Originally in R4-095022) - 0.1.0 0.2.0 2.001 R4454 R4-100419 For release 9 version, replace sections 4 to 6 as "Void" and 0.1.0 0.2.0 3.00 3.001 RPH47 RP-100162 T\$36.307 V.1.0 for approval 0.2.0 1.0.0 3.0.0 0.2.010 RP-49 RP-100927 2 Approved by RAN 1.0.0 3.0.0 1.0.0 3.0.0 1.0.	Date	TSG#	TSG Doc.	CR	Subject	Old	New
add a new void section 7.	11-2009	RP#46	RP-091141			-	0.1.0
03-2010 RP#47 RP-100162 Approved by RAN 1.0.0 9.0.0	02-2010	R4#54	R4-100419			0.1.0	0.2.0
03-2010 RP#47 RP-100162 Approved by RAN 1.0.0 9.0.0	03-2010	RP#47	RP-100162		TS36,307 v1.0.0 for approval	0.2.0	1.0.0
09-2010 RP-49 RP-100927 CR LTE_TDD_2600_US spectrum band definition additions to Substitution Substit							
Correction of section numbering				2	CR LTE_TDD_2600_US spectrum band definition additions to		
TS 36.307						9.1.0	9.1.1
12-2010 RP-50 RP-101344 016 CR creating the rel-10 of the 36.307 specification 9.2.0 9.3.0	12-2010	RP-50	RP-101356	800		9.1.1	9.2.0
12-2010 RP-50 RP-101356 012 TS 36.307 Raised to Rel-10 with no technical change 9.3.0 10.0.0	12-2010	RP-50	RP-101361	005	Introduction of L-band in TS 36.307	9.1.1	9.2.0
RP-50 RP-101356 012 TS 36.307 Raised to Rel-10 with no technical change 9.3.0 10.0.0	12-2010	RP-50	RP-101344	016		9.2.0	9.3.0
01-2011 RP-52 RP-110804 015 Add Expanded 1900 MHz Band (Band 25) in 36.307 10.0.1 10.0.1	12-2010	RP-50	RP-101356	012	• • • • • • • • • • • • • • • • • • • •	9.2.0	9.3.0
06-2011 RP-52 RP-110804 015 Add Expanded 1900 MHz Band (Band 25) in 36.307 10.0.1 10.1.0 08-2011 RP-53 RP-110812 022 Add 2GHz S-Band (Band 23) in 36.307 (Rel 10) 10.0.1 10.1.0 09-2012 RP-53 RP-120365 029 Introduction of Band 26/XXVI to TS 36.307 10.2.0 11.0.0 2012-06 RP-56 RP-120739 043 Introduction of CA 1A-19A to TS 36.307 11.0.0 11.0.0 2012-06 RP-56 RP-120739 049 Introduction of APAC700(FDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-06 RP-56 RP-120739 053 Introduction of APAC700(FDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-09 RP-56 RP-120739 053 Introduction of APAC700(FDD) into TS 36.307 11.1.0 11.1.0 2012-09 RP-57 RP-121335 059 Introduction of CA_1A-19A to TS 36.307 11.1.0 11.1.0 2012-09 RP-57 RP-121325 0701 Relation between EARFCN for overlapping bands with multiple FBI bindication 11.1.0 11.2.0	12-2010	RP-50			Raised to Rel-10 with no technical change	9.3.0	10.0.0
06-2011 RP-53 RP-110812 022 Add 2GHz S-Band (Band 23) in 36.307 (Rel 10) 10.0.1 10.0.1 10.0.1 03-2012 RP-55 RP-120305 025 Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307 10.2.0 10.2.0 10.1.0 10.2.0 2012-06 RP-56 RP-120793 043 Introduction of GA_1A-19A to TS 36.307 11.0.0 11.0.0 11.1.0 11.0.0 11.1.0 11.0.0 11.1.0 1	01-2011					10.0.0	10.0.1
09-2011 RP-53 RP-111255 025 Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307 10.1.0 10.2.0 03-2012 RP-56 RP-120789 023 Introduction of CA_1A-19A to TS 36.307 11.0.0 11.0.0 2012-06 RP-56 RP-120793 049 Introduction of CA_1A-19A to TS 36.307 Rel-11 11.0.0 11.1.0 2012-06 RP-56 RP-120793 053 Introduction of APAC700(FDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-06 RP-56 RP-120791 057 Introduction of APAC700(FDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-09 RP-57 RP-121335 059 Introduction of CA_1A-21A to TS 36.307 11.1.0 11.1.0 2012-09 RP-57 RP-121295 070r1 Relation between EARFCN for overlapping bands with multiple FBI indication 11.1.0 11.2.0 2012-09 RP-57 RP-121337 074 Introduction of CA_38 11.1.0 11.2.0 2012-09 RP-57 RP-121337 074 Introduction of CA_BP_B20 in 36.307 11.1.0 11.2.0	06-2011	RP-52	RP-110804	015		10.0.1	10.1.0
03-2012 RP-55 RP-120305 029 Introduction of Band 26/XXVI to TS 36.307 10.2.0 11.0.0 2012-06 RP-56 RP-120789 049 Introduction of CA_1A-19A to TS 36.307 11.0.0 11.0.0 2012-06 RP-56 RP-120793 053 Introduction of APAC700(TDD) into TS 36.307 Rel-11 11.0.0 11.0.0 2012-08 RP-56 RP-120791 057 Introduction of APAC700(TDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-09 RP-57 RP-121335 059 Introduction of CA_1A-214 to TS 36.307 11.1.0 11.1.0 2012-09 RP-57 RP-121336 072 Relation between EARFCN for overlapping bands with multiple FBI indication 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 TS 36.307 CR for CA_38 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121339 075 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 <td>06-2011</td> <td>RP-52</td> <td>RP-110812</td> <td>022</td> <td></td> <td>10.0.1</td> <td></td>	06-2011	RP-52	RP-110812	022		10.0.1	
2012-06 RP-56 RP-120793 043 Introduction of CA_1A-19A to TS_36.307 11.0.0 11.1.0 2012-06 RP-56 RP-120793 049 Introduction of APAC700(FDD) into TS_36.307 Rel-11 11.0.0 11.1.0 2012-06 RP-56 RP-120793 053 Introduction of APAC700(TDD) into TS_36.307 Rel-11 11.0.0 11.1.0 2012-06 RP-56 RP-120793 053 Introduction of APAC700(TDD) into TS_36.307 Rel-11 11.0.0 11.1.0 2012-09 RP-57 RP-121335 059 Introduction of CA_1A-21A to TS_36.307 11.0.0 11.1.0 2012-09 RP-57 RP-121295 070r1 Relation between EARFCN for overlapping bands with multiple FBI indication 11.0 11.2.0 2012-09 RP-57 RP-121337 073 TS_36.307 CR for CA_38 11.1.0 11.2.0 2012-09 RP-57 RP-121337 074 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121329 075 Introduction of CA_3A-20A to TS_36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 076 Introduction of CA_3A-20A to TS_36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 076 Introduction of CA_3A-20A to TS_36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_3B_2 B7 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_3B_2 B7 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_3B_2 B7 in 36.307 11.1.0 11.2.0 2012-09 RP-58 RP-121394 079 Introduction of CA_3B_3 B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121894 086 Introduction of CA_3B_3 B7 in 36.307 11.1.0 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3B_3 B7 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 093 Introduction of CA_3B_3 B7 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 093 Introduction of CA_3B_3 B7 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 093 Introduction of CA_3B_3 B7 in 36.307 Rel-11 11.2.0 11.3.0 2012-12 RP-58 RP-121884 094 Introduction of CA_3B_3 B7 in 36.307 Rel-11 11.2.0					\ /	10.1.0	
2012-06 RP-56 RP-120793 049 Introduction of APAC700(TDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-06 RP-56 RP-120793 053 Introduction of APAC700(TDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-09 RP-57 RP-120791 057 Introduction of e850 LB (Band 27) to TS 36.307 11.0.0 11.1.0 2012-09 RP-57 RP-121335 059 Introduction of CA_1A-21A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121328 0701 Relation between EARFCN for overlapping bands with multiple FBI indication 11.1.0 11.2.0 2012-09 RP-57 RP-121338 072 36.307 CR for LTE_CA_B7 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 Introduction of CA_80 11.1.0 11.2.0 2012-09 RP-57 RP-121327 074 Introduction of CA_80 2012-09 RP-57 RP-121329 075 Introduction of CA_80 BA B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_80 BA B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_80 BA B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_80 BA B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121332 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 077 Introduction of CA_80 BA B7 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121389 086 Introduction of CA_80 BA B7 in 36.307 11.1.0 11.2.0 11.3.0 2012-12 RP-58 RP-121889 086 Introduction of CA_80 BA B7 in 36.307 11.2.0 11.3.0 36.307 (Rel-11) Introduction of CA_80 BA B7 in 36.307 11.2.0 11.3.0 11.3.0 2012-12 RP-58 RP-121889 091 Introduction of CA_80 BA B7 in 36.307 11.2.0 11.3.0 11.3.0 2012-12 RP-58 RP-121889 091 Introduction of CA_80 BA B7 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 091 Introduction of CA_80 BA B7 in 36.307 Rel-1	03-2012						
2012-06 RP-56 RP-120793 053 Introduction of APAC700(TDD) into TS 36.307 Rel-11 11.0.0 11.1.0 2012-09 RP-56 RP-120791 057 Introduction of CA_1A-21A to TS 36.307 11.1.0 11.0.0 11.1.0 2012-09 RP-57 RP-121295 O70r1 Relation between EARFCN for overlapping bands with multiple FBI indication 11.1.0 11.2.0 2012-09 RP-57 RP-121338 072 36.307 CR for LTE_CA_B7 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 TS 36.307 CR for LTE_CA_B7 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 TS 36.307 CR for LTE_CA_B7 11.1.0 11.2.0 2012-09 RP-57 RP-121329 075 Introduction of CA_B7_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121330 076 Introduction of CA_B7_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121330 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-							
2012-06 RP-56 RP-120791 057 Introduction of e850 LB (Band 27) to TS 36.307 11.0.0 11.1.0 2012-09 RP-57 RP-121335 059 Introduction of CA_1A-21A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121338 072 36.307 CR for LTE_CA_BT 11.1.0 11.2.0 2012-09 RP-57 RP-121338 072 36.307 CR for LTE_CA_BT 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 TS 36.307 CR for CA_38 11.1.0 11.2.0 2012-09 RP-57 RP-121327 074 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121327 075 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_B_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_B_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 079 Introduction of CA_B_3 B7 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121332 079 Introduction of CA_B_3 B7 in 36.307 11.1.0 11.2.0 2012-09 RP-58 RP-121389 086 Introduction of CA_B_3 B7 in 36.307 11.0.0 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA_BA-8A to TS 36.307 11.2.0 11.3.0 36.307 (Rel-11) 36.307 (Rel-11) 36.307 11.2.0 11.3.0 36.307						11.0.0	11.1.0
2012-09 RP-57 RP-121335 059 Introduction of CA_1A-21A to TS 36.307 11.1.0 11.2.0 11.3.0 11.2.0 11.3.						11.0.0	4
2012-09 RP-57 RP-121295 070r1 Relation between EARFCN for overlapping bands with multiple FBI indication 11.1.0 11.2.0 2012-09 RP-57 RP-121338 072 36.307 CR for LTE_CA_BT 11.1.0 11.2.0 2012-09 RP-57 RP-121337 073 TS 36.307 CR for CA_38 11.1.0 11.2.0 2012-09 RP-57 RP-121327 074 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121329 075 Introduction of CA band combination Band3 + Band5 to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 077 Introduction of CA_8_20 RF requirements in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121889 086 Introduction of CA_B3_B7 in 36.307 11.1.0 11.2.0 <							4
multiple FBI indication multiple FBI indication 2012-09 RP-57 RP-121338 072 36.307 CR for LTE CA_BT 11.1.0 11.2.0 2012-09 RP-57 RP-121327 074 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121329 075 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121329 075 Introduction of CA_BT_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_8_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 079 Introduction of CA_8_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 079 Introduction of CA_8_3 B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121889 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 091 Introduction of Band 5 + Band 17 inter-band CA configuration 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3A-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 093 Introduction of CA_3B-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 095 Introduction of CA_3B-8A to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121881 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121881 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121881 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121801 010 Introduction of CA_4-12 into TS_36.307 (Rel-11) 11.2.0							
2012-09 RP-57 RP-121337 073 TS 36.307 CR for CA_38 11.1.0 11.2.0	2012-09	RP-57	RP-121295	070r1	•	11.1.0	11.2.0
2012-09 RP-57 RP-121327 074 Introduction of CA_B7_B20 in 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121329 075 Introduction of CA band combination Band3 + Band5 to TS 11.1.0 11.2.0 36.307 2012-09 RP-57 RP-121331 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_B_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 079 Introduction of CA_B_3DF in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121890 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA_band combination Band4 + Band13 to TS 11.2.0 11.3.0 2012-12 RP-58 RP-121889 091 Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_B_5DB12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_5B_5DB12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_5B_5DB12 in 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_5D_5DB12 in 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121880 097 Rel-3DB12 in 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121880 097 Rel-3DB12 in 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121880 097 Rel-3DB12 in 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-12180 099 Release-independent implementation of carrier aggregation 11.2.0 11.3.0 2012-12 RP-58 RP-12180 099 Release-independent implementation of carrier aggregation 11.2.0 11.3.0 2012-12 RP-58 RP-12170 0104 Introduction of CA band combination Band2 + Band17 to TS 3.307 (Rel-11) 3.3037 (Rel-11) 3.3037 (Rel-11) 3.3037 (Rel-11) 3.3037 (Rel-11) 3.3037 (Rel-11) 3.3037 (Rel							
2012-09 RP-57 RP-121329 075 Introduction of CA band combination Band3 + Band5 to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_8_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 079 Introduction of CA_B3_B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121890 086 Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121896 091 Introduction of CA_3A-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 093 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0							
36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121331 076 Introduction of CA_3A-20A to TS 36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121334 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_8_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 079 Introduction of CA_8_3 B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121890 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11) 11.2.0 11.3.0 36.307 (Rel-11) 11.2.0 11.3.0 36.307 (Rel-11) 11.2.0 11.3.0 36.307 (Rel-11) 11.2.0 11.3.0 36.307		_					
2012-09 RP-57 RP-121334 077 Add requirements for inter-band CA of B_1-18 in TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121333 078 Introduction of CA_8_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 079 Introduction of CA_B3_B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121890 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 08 Introduction of CA_band combination Band4 + Band13 to TS_36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121896 091 Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3A-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 093 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0					36.307		
2012-09 RP-57 RP-121333 078 Introduction of CA_8_20 RF requirements into TS36.307 11.1.0 11.2.0 2012-09 RP-57 RP-121324 079 Introduction of CA_B3_B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121890 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA band combination Band4 + Band13 to TS_36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121896 091 Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3A-8A to TS_36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 093 Introduction of CA_4-12 into TS_36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS_36.307 11.2.0<		_					
2012-09 RP-57 RP-121324 079 Introduction of CA_B3_B7 in 36.307 11.1.0 11.2.0 2012-12 RP-58 RP-121890 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121896 091 Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3A-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121801 099 Release-independent implementation of carrier aggregation configuration CA_4-7					Add requirements for inter-band CA of B_1-18 in TS36.307		
2012-12 RP-58 RP-121890 086 Introduction of CA_4A-5A into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121889 088 Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121896 091 Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3A-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 093 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121861 099 Release-independent implementation of carrier aggregation configuration CA_4-7 11.2.0 11.3.0 2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS shades and carrier A							
2012-12 RP-58 RP-121889 088 Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121896 091 Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_3A-8A to TS 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121884 092 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121861 099 Release-independent implementation of carrier aggregation configuration CA_4-7 11.2.0 11.3.0 2012-12 RP-58 RP-121901 101 Introduction of CA band combination Band2 + Band17 to TS significant introduction of CA band combination Band4 + Band17 to TS significant introduction of CA band combination Band4 + Band17 to TS significant introduction of CA significant introduction of CA sign							
36.307 (Rel-11)		_					
Into 36.307					36.307 (Rel-11)		
2012-12 RP-58 RP-121894 093 Introduction of CA_B5_B12 in 36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121887 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121861 099 Release-independent implementation of carrier aggregation configuration CA_4-7 11.2.0 11.3.0 2012-12 RP-58 RP-121901 101 Introduction of Band 29 11.2.0 11.3.0 2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 11.2.0 11.3.0 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 28 to TS	2012-12				into 36.307		
2012-12 RP-58 RP-121887 095 Introduction of CA_4-12 into TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121861 099 Release-independent implementation of carrier aggregation configuration CA_4-7 11.2.0 11.3.0 2012-12 RP-58 RP-121901 101 Introduction of Band 29 11.2.0 11.3.0 2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 11.2.0 11.3.0 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0							
2012-12 RP-58 RP-121882 097 [Rel-11] Introduction of inter-band CA_11-18 into TS36.307 11.2.0 11.3.0 2012-12 RP-58 RP-121861 099 Release-independent implementation of carrier aggregation configuration CA_4-7 11.2.0 11.3.0 2012-12 RP-58 RP-121901 101 Introduction of Band 29 11.2.0 11.3.0 2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307 (Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0							
2012-12 RP-58 RP-121861 099 Release-independent implementation of carrier aggregation configuration CA_4-7 11.2.0 11.3.0 2012-12 RP-58 RP-121901 101 Introduction of Band 29 11.2.0 11.3.0 2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 11.2.0 11.3.0 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0							
Configuration CA_4-7 2012-12 RP-58 RP-121901 101 Introduction of Band 29 11.2.0 11.3.0 2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 11.2.0 11.3.0 36.307 (Rel-11) 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 11.2.0 11.3.0 36.307 (Rel-11) 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0 11.3.0 11.3.0 11.3.0 11.3.0 11.3.0 11.3.0 11.3.0 11.3.0		RP-58		097			
2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0	2012-12					11.2.0	11.3.0
2012-12 RP-58 RP-121718 0102 Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0							
2012-12 RP-58 RP-121720 0104 Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11) 11.2.0 11.3.0 2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0	2012-12	RP-58	RP-121718	0102	36.307 (Rel-11)	11.2.0	11.3.0
2013-06 RP-60 RP-130771 107r1 Introduction of CA 1+8 into TS36.307(Rel-11) 11.3.0 11.4.0 2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11 11.3.0 11.4.0	2012-12	RP-58	RP-121720	0104	Introduction of CA band combination Band4 + Band17 to TS	11.2.0	11.3.0
2013-06 RP-60 RP-130782 110r1 Introduction of LTE Advanced inter-band Carrier Aggregation 11.3.0 11.4.0 of Band 3 and Band 28 to TS 36.307 Rel-11	2013-06	RP-60	RP-130771	107r1		11.3.0	11.4.0
		_			Introduction of LTE Advanced inter-band Carrier Aggregation		
	2013-06	RP-60	RP-130785	113		11.3.0	11.4.0

				-f D d 00 d D d 00 to T0 00 007 (D-1 44)	ı	1
2013-06	RP-60	RP-130779	116	of Band 23 and Band 29 to TS 36.307 (Rel-11) Introduction of LTE Advanced inter-band Carrier Aggregation	11.3.0	11.4.0
2013-00	KF-00	KF-130//9	116	of Band 3 and Band 26 to TS 36.307 (Rel-11)	11.3.0	11.4.0
2013-06	RP-60	RP-130777	119	Introduction of CA_3A-19A to TS 36.307	11.3.0	11.4.0
		RP-130783		Introduction of CA_19A-21A to TS 36.307	11.3.0	11.4.0
2013-06	RP-60	RP-130787		Introduction of CA_4A-4A into 36.307 Rel-11	11.3.0	11.4.0
2013-06	RP-60	RP-130775		Introduction of CA_2A-13A to TS 36.307	11.3.0	11.4.0
2013-06	RP-60	RP-130791		Introduction of Band 30	11.3.0	11.4.0
2013-06	RP-60	RP-130790	142	Introduction of LTE 450 into TS 36.307 R11	11.3.0	11.4.0
09-2013	RP-61	RP-131300	152	36.307 CR for LTE_CA_C_B3 (Rel-11)	11.4.0	11.5.0
09-2013	RP-61	RP-131303	155	Band 31 release independence for UE demodulation	11.4.0	11.5.0
09-2013	RP-61	RP-131285	150	performance [Rel-11] Modify requirements for CA_1A-18A in TS36.307	11.4.0	11.5.0
09-2013	RP-61	RP-131296		[Rel-11] Add requirements for CA_1A-26A into TS36.307	11.4.0	11.5.0
	RP-61	RP-131297		Introduction of CA_2A-4A to TS 36.307	11.4.0	11.5.0
09-2013	RP-61	RP-131298		Introduction of inter-band CA Band 2+5	11.4.0	11.5.0
12-2013	RP-62	RP-131965		Introduction of CA_23A-23A to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131946		Introduction of CA band combination Band2 + Band12 to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131954	180r1	Introduction of CA band combination Band12 + Band25 to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131959	183	Introduction of LTE_CA_C_B27 to 36.307 (Rel-11)	11.5.0	11.6.0
12-2013	RP-62	RP-131939		Correction to release independent specification	11.5.0	11.6.0
12-2013	RP-62	RP-131957		Introduction of CA_23B to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131961	193	Introduction of Intra-band non-contiguous CA in band 3 to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131950	199	Introduction of CA band combination Band5 + Band25 to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131948	203r1	Introduction of CA band combination B5 + B7 to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131952	206	Introduction of CA band combination B7 + B28 to TS 36.307	11.5.0	11.6.0
12-2013	RP-62	RP-131925	215	UE performance requirements in release independent specification for CA	11.5.0	11.6.0
12-2013	RP-62	RP-131963		Introduction of CA_7A-7A to TS 36.307 Rel-11	11.5.0	11.6.0
12-2013	RP-62	RP-131924	223	Introducing 'General' clause with note referring to note in clause 4.4 in TS36.101, editorial corrections and modifications	11.5.0	11.6.0
03-2014	RP-63	RP-140375		to Forward and Scope clauses CR on UE performance requirements in release independent specification	11.6.0	11.7.0
03-2014	RP-63	RP-140371		Release independence of Band 14 HPUE	11.6.0	11.7.0
03-2014	RP-63	RP-140375		Correction to release independent specification	11.6.0	11.7.0
03-2014	RP-63			Introduction of CA band combination Band 3 and Band 27 to TS 36.307	11.6.0	11.7.0
03-2014	RP-63	RP-140188	247	Addition of bandwidth combination set for CA_2A-29A and CA_4A-29A	11.6.0	11.7.0
03-2014	RP-63	RP-140387	196r1	Introduction of CA_39A-41A to TS 36.307	11.6.0	11.7.0
03-2014	RP-63	RP-140388		Introduction of CA_39C to TS 36.307	11.6.0	11.7.0
06-2014	RP-64	RP-140911	258	Introduction of CA band combination Band 1 and Band 5 to TS 36.307	11.7.0	11.8.0
06-2014	RP-64	RP-140918	299	Correction of Common RRM requirements for CA in release independent specification (Rel-11)	11.7.0	11.8.0
06-2014	RP-64	RP-140926	279	Introduction of Band 20+32 CA	11.7.0	11.8.0
06-2014	RP-64	RP-140931	264	Introduction of CA 1+11 to 36.307 (Rel-11)	11.7.0	11.8.0
06-2014	RP-64	RP-140933	274	Introduction of CA band combination Band 4 and Band 27 to TS 36.307	11.7.0	11.8.0
06-2014	RP-64	RP-140935	277	Addition of bandwidth combination sets for CA_3A-5A, CA_4A-5A, and CA_4A-12A into 36.307	11.7.0	11.8.0
06-2014	RP-64	RP-140938 RP-140940	290 318	Introduction of CA_2A-2A to TS 36.307 Rel-11	11.7.0	11.8.0
06-2014 06-2014	RP-64 RP-64	RP-140940 RP-140942	339	Introduction of LTE_CA_NC_B42 into 36.307 Introduction of CA band combination Band 1 and Band 20 to TS 36.307	11.7.0	11.8.0
06-2014	RP-64	RP-140942	252	Introduction of CA band combination Band 1 and Band 20 to TS 36.307	11.7.0	11.8.0
06-2014	RP-64	RP-140943	346	Introduction of CA band combination CA_41D into TS 36.307 (Rel-11)	11.7.0	11.8.0
06-2014	RP-64	RP-140946	342	Introduction of CA_42C to TS 36.307	11.7.0	11.8.0
06-2014	RP-64	RP-140947	302	Introduction of Band 40D in release independent specification (Rel-11)	11.7.0	11.8.0
06-2014	RP-64	RP-140953	0308	Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-11)	11.7.0	11.8.0

09-2014	RP-65	RP-141111	0389r 1	[Rel-11] Introduction of inter-band CA_18-28 into TS36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141199	0365r 1	Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-11)	11.8.0	11.9.0
09-2014	RP-65	RP-141204	0362r 1	Introduction of CA_B1_B3 into TS 36.307 (Rel-11)	11.8.0	11.9.0
09-2014	RP-65	RP-141330	0428r 1	Introduction of CA_1A-7A into 36.307 (Rel-11)	11.8.0	11.9.0
09-2014	RP-65	RP-141339	0375r 2	Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-11)	11.8.0	11.9.0
09-2014	RP-65	RP-141466	0431	Introduction of 3 DL CA for Band 1+7+20	11.8.0	11.9.0
09-2014	RP-65	RP-141527	414r1	CR for 36.307 on CA UE performance requirement in Rel-11	11.8.0	11.9.0
09-2014	RP-65	RP-141538	342r2	Introduction of CA_42C to TS 36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141540	302r2	Introduction of Band 40D in release independent specification (Rel- 11)	11.8.0	11.9.0
09-2014	RP-65	RP-141541	412	CR on UE performance requirement for Band 31 for 36.307 Rel-11	11.8.0	11.9.0
09-2014	RP-65	RP-141551	359	Introduction of CA 8+11 to 36.307 (Rel-11)	11.8.0	11.9.0
09-2014	RP-65	RP-141552	378	Introduction of CA_41A-42A to TS 36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141553	380	Introduction of a new bandwidth combination set for CA_25A-25A into 36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141554	417r1	Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback	11.8.0	11.9.0
09-2014	RP-65	RP-141554	420r1	Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback	11.8.0	11.9.0
09-2014	RP-65	RP-141555	383r1	Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.11)	11.8.0	11.9.0
09-2014	RP-65	RP-141556	356r1	Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141558	401	Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141560	351	Introduction of new CA_40C bandwidth combination set into 36.307	11.8.0	11.9.0
09-2014	RP-65	RP-141561	353r2	CR to 36.307 Rel-11: Introduction of CA_41C-41A and CA_41A-41C and New BW Combination Set for CA_41C	11.8.0	11.9.0
12-2014	RP-66	RP-142142	439r1	UE RF requirements in the release independent spec	11.9.0	11.10.0
12-2014	RP-66	RP-142184	442	Introduction of CA band combinations for dual uplik to TS 36.307 Rel-	11.9.0	11.10.0
12-2014	RP-66	RP-142182	447	[Rel-11] Introduction of inter-band CA_1-28 into TS36.307	11.9.0	11.10.0
12-2014	RP-66	RP-142189	454	CR for TR 36.307: LTE_CA_B5_B13	11.9.0	11.10.0
12-2014	RP-66	RP-142190	457r2	Introduction of additional band combinations for 3DL inter-band CA	11.9.0	11.10.0
03-2015	RP-67	RP-150387	462	R4-73AH-0112: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-11	11.10.0	11.11.0
03-2015	RP-67	RP-150392	467	CR for 36.307 on CA UE performance requirement in Rel-11	11.10.0	11.11.0
03-2015	RP-67	RP-150388	476r1	Release independent requirements for CA_42C	11.10.0	11.11.0

History

Document history						
V11.2.0	November 2012	Publication				
V11.3.0	February 2013	Publication				
V11.4.0	July 2013	Publication				
V11.5.0	October 2013	Publication				
V11.6.0	January 2014	Publication				
V11.7.0	April 2014	Publication				
V11.8.0	July 2014	Publication				
V11.9.0	October 2014	Publication				
V11.10.0	February 2015	Publication				
V11.11.0	April 2015	Publication				