RP-020781

Title CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.104 & TS 25.141 on "FDD -

GSM/PCS co-existence"

Source TSG RAN WG4

Agenda Item 7.4.3

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-021659	25.104	167		F	R99	3.10.0	FDD GSM co-existence in the Same Geographic Area	TEI
R4-021658	25.104	149	1	Α	Rel-4	4.5.0	FDD GSM co-existence in the Same Geographic Area	TEI
R4-021448	25.104	153		Α	Rel-5	5.4.0	FDD GSM co-existence in the Same Geographic Area	TEI
R4-021449	25.104	150		F	Rel-5	5.4.0	FDD GSM 850 / PCS 1900 co-existence in the Same Geographic Area	TEI5
R4-021661	25.141	264		F	R99	3.11.0	FDD GSM co-existence in the Same Geographic Area	TEI
R4-021660	25.141	250	1	Α	Rel-4	4.6.0	FDD GSM co-existence in the Same Geographic Area	TEI
R4-021451	25.141	252		Α	Rel-5	5.4.0	FDD GSM co-existence in the Same Geographic Area	TEI
R4-021452	25.141	251		F	Rel-5	5.4.0	FDD GSM 850 / PCS 1900 co-existence in the Same Geographic Area	TEI5

3GPP TSG RAN WG4 (Radio) Meeting #25 Secaucus, NJ, USA 11 - 15 November, 2002

R4-021658

		CHANGI	EREQ	UE	ST	-		CR-Form-v7
*	25.104 CR	149	≋ rev	1	¥	Current version:	4.5.0	ж

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*	25.	.104 CR	149	≋ rev	1 **	Current vers	4.5.0 [#]
For HELP on us	sing t	his form, see	bottom of this	s page or	look at th	ne pop-up text	over the # symbols.
Proposed change a	affect	ts: UICC a	pps#	ME	Radio A	Access Networ	k X Core Network
Title: ૠ	FDI	D – GSM co-	existence in th	e Same	Geograph	nic Area	
Source: #	RAI	N WG4					
Work item code: ₩	TEI					<i>Date:</i> ∺	26/11/2002
Category: #	Α					Release: ₩	Rel-4
	Detai	F (correction) A (correspond B (addition of C (functional of D (editorial m	ds to a correction feature), modification of foodification) ns of the above	n in an eai eature)		2	the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)
Reason for change	e: #					· (UL band) in Area are missi	case where FDD and ng.
Summary of chang	ge: #	Requirement between FI approved s	graphic Area is nt of –61dBm/ t of –98dBm/1 DD and GSM.	s introduc 100kHz is 00kHz, w For co-ex 25.942 w	ed. s derived whereas c cistence ith an MC	from the alrea co-location is b in the Same 0	se of deployment in the ady existing co-location ased on 30dB MCL Geographic Area the used (-98dBm/100kHz +
Consequences if not approved:	**	guaranteed A generic c for other sy Isolated Im GSM netwo if this CR is	based on the o-existence ar stems. apact Analysia ork performand not approved	requirem nalysis of s: ce could b	ents in 30 FDD and be affecte	GPP specificaded GSM is not posted by to high F	Area can not be tions. cossible as it is possible DD Spurious Emission behaving like indicated
Clauses offerted:	90	126221	1 62 / 1 1				
Clauses affected:	_	4.3, 6.3.3.1 Y N	. 1, 0.3.4.1.1				

Clauses affected:	4.3 , 6.3.3.1.1 , 6.3.4.1.1	
	YN	
Other specs	★	₩

affected:	X Test specifications O&M Specifications	TS 25.141				
Other comments:	Equivalent CRs in other Releases: CR cat. A to 25.104 v5.4.0	Equivalent CRs in other Releases: CR167r1 cat. F to 25.104 v3.10.0, CR153r1 cat. A to 25.104 v5.4.0				

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.3 Regional requirements

Some requirements in TS 25.104 may only apply in certain regions. Table 4.1 lists all requirements that may be applied differently in different regions.

Table 4.1: List of regional requirements

Clause	Requirement	Comments
number	1104	
5.2	Frequency bands	Some bands may be applied regionally.
5.3	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
6.2.1	Base station maximum output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the range of conditions defined as normal.
6.6.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.6.2.3	Protection outside a licensee's frequency block	This requirement is applicable if protection is required outside a licensee's frequency block.
6.6.3.1.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.6.3.1.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.6.3.3.1	Co-existence with GSM900 -Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS in geographic areas in which both GSM 900 and UTRA are deployed.
6.6.3.3.2	Co-existence with GSM900 - Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.6.3.4.1	Co-existence with DCS1800 -Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS and DCS 1800 BTS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.6.3.4.2	Co-existence with DCS1800 - Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.6.3.5	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.6.3.6	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to 2110-2170 MHz, as defined in sub-clause 5.2(a) and 1930-1990 MHz, as defined in sub-clause 5.2(b) in geographic areas in which both an adjacent band service and UTRA are deployed.
6.6.3.7.1	Co-existence with UTRA TDD - Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.6.3.7.2	Co-existence with UTRA TDD - Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
7.4.2	Adjacent Channel Selectivity Colocation with UTRA-TDD	This requirement may be applied for the protection of UTRA-FDD BS receivers when UTRA-FDD BS and UTRA-TDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
7.5.2	Blocking characteristics Colocation with GSM900 and/or DCS 1800	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900/DCS1800 BS are co-located.
7.5.3	Blocking characteristics Co- location with UTRA TDD	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and UTRA TDD BS are co-located.

- Next Section Changed -

6.6.3.3 Co-existence with GSM 900

6.6.3.3.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 900 MS <u>and GSM 900 BTS receivers</u> in geographic areas in which both GSM 900 and UTRA are deployed.

6.6.3.3.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.11: BS Spurious emissions limits for BS in geographic coverage area of GSM 900 MS and GSM 900 BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
<u>876 – 915 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	
921 - 960 MHz	-57 dBm	100 kHz	

6.6.3.3.2 Co-located base stations

This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.

6.6.3.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.12: BS Spurious emissions limits for protection of the GSM 900 BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876-915 MHz	-98 dBm	100 kHz	

6.6.3.4 Co-existence with DCS 1800

6.6.3.4.1 Operation in the same geographic area

This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS receivers</u> in geographic areas in which both DCS 1800 and UTRA are deployed.

6.6.3.4.1.1 Minimum Requirement

Table 6.13: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800 MS <u>and</u> DCS 1800 BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
<u>1710 – 1785 MHz</u>	<u>-61 dBm</u>	100 kHz	
1805 - 1880 MHz	-47 dBm	100 kHz	

6.6.3.4.2 Co-located base stations

This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.

6.6.3.4.2.1 Minimum Requirement

Table 6.14: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

	Band	Maximum Level	Measurement Bandwidth	Note
Г	1710 - 1785 MHz	-98 dBm	100 kHz	

3GPP TSG RAN WG4 (Radio) Meeting #25 Secaucus, NJ, USA 11 - 15 November, 2002

R4-021449

	(CHANGE	REQ	UE	ST	•		CR-Form-v7
*	25.104 CR	150	жrev		¥	Current version:	5.4.0	Ħ

*	25.104 CR 150 # rev #	Current version: 5.4.0 **
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the	e pop-up text over the % symbols.
Proposed change a		ccess Network X Core Network
Title: ₩	FDD – GSM 850 / PCS 1900 co-existence in the S	Same Geographic Area
Source: #	RAN WG4	
Work item code: ജ	TEI5	Date: 第 26/11/2002
Category: ₩	F Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Release: # Rel-5 Use one of the following releases: 2 (GSM Phase 2) e) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)
Reason for change	Requirements to protect GSM 850 and PCS where FDD and GSM 850 and/or PCS 1900 Area are missing.	
Summary of chang	Requirements for FDD to protect GSM 850 a of deployment in the Same Geographic Area Requirement of –61dBm/100kHz is derived for requirement of –98dBm/100kHz, whereas concept between FDD and GSM 850 and/or PCS 190 Geographic Area the approved scenario of Toused (-98dBm/100kHz + 37dB (=67dB – 30d)	rom the already existing co-location o-location is based on 30dB MCL 00. For co-excistence in the Same R 25.942 with an MCL of 67dB is
Consequences if not approved:	Co-existence of FDD and GSM 850/PCS 190 not be guaranteed based on the requirement A generic co-existence analysis of FDD and as it is possible for other systems.	ts in 3GPP specifications.
Clauses affected:	8 4.3, 6.6.3.10, 6.6.3.11	
Other specs affected:	X O&M Specifications	25.141
Other comments:	\mathbf{x}	

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Other specs affected:	ж	X		Other core specifications Test specifications O&M Specifications	ж	TS 25.141
	_			•		
Other comments:	\mathfrak{R}					

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Table 4.1: List of regional requirements

Clause number	Requirement	Comments
5.2	Frequency bands	Some bands may be applied regionally.
5.3	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
5.4	Channel arrangement	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
6.2.1	Base station maximum output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the range of conditions defined as normal.
6.6.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.6.2.3	Protection outside a licensee's frequency block	This requirement is applicable if protection is required outside a licensee's frequency block.
6.6.3.1.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-9 [1], are applied.
6.6.3.1.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-9 [1], are applied.
6.6.3.3.1	Co-existence with GSM900 -Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS in geographic areas in which both GSM 900 and UTRA are deployed.
6.6.3.3.2	Co-existence with GSM900 - Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.6.3.4.1	Co-existence with DCS1800 -Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.6.3.4.2	Co-existence with DCS1800 - Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.6.3.5	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.6.3.6	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to the downlink bands as defined in clause 5.2in geographic areas in which both an adjacent band service and UTRA are deployed.
6.6.3.7.1	Co-existence with UTRA TDD - Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.6.3.7.2	Co-existence with UTRA TDD - Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
6.6.3.8.1	Co-existence with UTRA in frequency band III -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.
6.6.3.8.2	Co-existence with UTRA in frequency band III - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.

6.6.3.9.1	Co-existence with UTRA in	This requirement may be applied for the protection
	frequency band I -Operation in the	of UTRA UE in frequency band I in geographic
	same geographic area	areas in which both UTRA in frequency band I and
		III are deployed.
6.6.3.9.2	Co-existence with UTRA in	This requirement may be applied for the protection
	frequency band I -	of UTRA BTS receivers in frequency band I when
	Co-located base stations	UTRA BS in frequency band I and III are co-located.
6.6.3.10.1	Co-existence with PCS1900	This requirement may be applied for the protection
	-Operation in the same	of PCS 1900 BTS receivers in geographic areas in
	geographic area	which both PCS 1900 and UTRA are deployed.
6.6.3.10. 1	Co-existence with PCS1900 -	This requirement may be applied for the protection
<u>2</u>	Co-located base stations	of PCS 1900 BTS receivers when PCS 1900 BTS
		and UTRA BS are co-located.
<u>6.6.3.11.1</u>	Co-existence with GSM850	This requirement may be applied for the protection
	-Operation in the same	of GSM 850 MS and GSM 850 BTS receivers in
	geographic area	geographic areas in which both GSM 850 and
		UTRA are deployed.
6.6.3.11. 1	Co-existence with GSM850 -	This requirement may be applied for the protection
<u>2</u>	Co-located base stations	of GSM 850 BTS receivers when GSM 850 BTS
7.40	A II	and UTRA BS are co-located.
7.4.2	Adjacent Channel Selectivity Co-	This requirement may be applied for the protection
	location with UTRA-TDD	of UTRA-FDD BS receivers when UTRA-FDD BS and UTRA-TDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what
7.5	Blocking characteristic	frequency bands in Clause 5.2 that are supported
		by the BS.
7.5.2	Blocking characteristics Co-	This requirement may be applied for the protection
7.0.2	location with GSM900, DCS 1800,	of UTRA FDD BS receivers when UTRA FDD BS
	PCS1900 and/or UTRA	and GSM 900, DCS1800, PCS1900, GSM850
		and/or UTRA BS (operating in different frequency
		bands) are co-located.
7.5.3	Blocking characteristics Co-	This requirement may be applied for the protection
	location with UTRA TDD	of UTRA FDD BS receivers when UTRA FDD BS
		and UTRA TDD BS are co-located.
7.6	Intermodulation characteristics	The requirement is applied according to what
		frequency bands in Clause 5.2 that are supported
		by the BS.
7.7	Spurious emissions	The requirement is applied according to what
		frequency bands in Clause 5.2 that are supported
		by the BS.
	HSDPA*	The portion of HSDPA(High Speed Downlink Packet
		Access) is not applicable to ARIB standards by the
		time when ARIB is prepared to transpose.

Note *: HSDPA: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.

Next section changed –

6.6.3.10 Co-existence with PCS1900

6.6.3.10.1 Operation in the same geographic area

This requirement may be applied for the protection of PCS 1900 BS receiver in geographic areas in which both PCS 1900 and UTRA BS operating in the frequency band II are deployed.

6.6.3.10.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table X.XX: BS Spurious emissions limits for BS in geographic coverage area of PCS 1900 BS

Operating Band	<u>Band</u>	Maximum Level	Measurement Bandwidth	<u>Note</u>
II	1850 - 1910 MHz	-61 dBm	100 kHz	

6.6.3.10.12 Co-located base stations

This requirement may be applied for the protection of PCS1900 BS receivers when UTRA BS operating in frequency band II and PCS1900 BS are co-located.

6.6.3.10.42.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.23: BS Spurious emissions limits for BS co-located with PCS1900 BS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
II	1850 – 1910 MHz	-98 dBm	100 kHz	

6.6.3.11 Co-existence with GSM850

6.6.3.11.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 850 MS and GSM 850 BS receiver in geographic areas in which both GSM 850 and UTRA BS operating in the frequency band II are deployed.

6.6.3.11.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table X.XX: BS Spurious emissions limits for BS in geographic coverage area of GSM 850

Operating Band	<u>Band</u>	Maximum Level	Measurement Bandwidth	<u>Note</u>
<u>II</u>	<u>824 - 849 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	
<u>II</u>	<u>869 – 894 MHz</u>	<u>-57 dBm</u>	<u>100 kHz</u>	

6.6.3.11.12 Co-located base stations

This requirement may be applied for the protection of GSM850 BS receivers when UTRA BS operating in frequency band II and GSM850 BS are co-located.

6.6.3.11.12.1 Minimum Requirement

Table 6.24: BS Spurious emissions limits for BS co-located with GSM850 BS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
ll l	824 - 849 MHz	-98 dBm	100 kHz	

3GPP TSG RAN WG4 (Radio) Meeting #25 Secaucus, NJ, USA 11 - 15 November, 2002

R4-021448

		(CHANGE	REQ	UE	ST	-		CR-Form-v7
ж	25.104	CR	153	≋ rev		ж	Current version:	5.4.0	¥

ж 2	5.104 CR 153	Current version: 5.4.0 **
For HELP on using	g this form, see bottom of this page or look at th	he pop-up text over the % symbols.
Proposed change affe	e cts: UICC apps器 ME Radio <i>i</i>	Access Network X Core Network
Title: 第 F	DD – GSM co-existence in the Same Geograp	hic Area
Source: # F	RAN WG4	
Work item code: 第 T	El	Date: 第 26/11/2002
De	The one of the following categories: F (correction) A (corresponds to a correction in an earlier release B (addition of feature), C (functional modification of feature) D (editorial modification) etailed explanations of the above categories can found in 3GPP TR 21.900.	Release: # Rel-5 Use one of the following releases: 2 (GSM Phase 2) se) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)
Reason for change:	Requirements to protect GSM BTS received GSM is deployed in the Same Geographic.	
Summary of change:	Requirements for FDD to protect GSM BTS Same Geographic Area is introduced. Requirement of –61dBm/100kHz is derived requirement of –98dBm/100kHz, whereas obstween FDD and GSM. For co-excistence approved scenario of TR 25.942 with an MG 37dB (=67dB – 30dB) = -61dBm/100kHz).	from the already existing co-location co-location is based on 30dB MCL in the Same Geographic Area the
Consequences if not approved:	Co-existence of FDD and GSM in the Same guaranteed based on the requirements in 3 A generic co-existence analysis of FDD and for other systems. Isolated Impact Analysis: GSM network performance could be affected if this CR is not approved. Approval of this CR would not affect FDD in in the CR.	GPP specifications. d GSM is not possible as it is possible ed by to high FDD Spurious Emission
Clauses affected:	¥ 4.3, 6.3.3.1.1, 6.3.4.1.1 Y N	

Clauses affected:	4.3 , 6.3.3.1.1 , 6.3.4.1.1	
	YN	
Other specs	★	₩

affected:	X Test specifications X O&M Specifications	TS 25.141
Other comments:	# Equivalent CRs in other Releases: Cl	R167 cat. F to 25.104 v3.10.0, CR149 cat. A

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Table 4.1: List of regional requirements

Clause number	Requirement	Comments
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5.3	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
5.4	Channel arrangement	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
6.2.1	Base station maximum output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the range of conditions defined as normal.
6.6.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.6.2.3	Protection outside a licensee's frequency block	This requirement is applicable if protection is required outside a licensee's frequency block.
6.6.3.1.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-9 [1], are applied.
6.6.3.1.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-9 [1], are applied.
6.6.3.3.1	Co-existence with GSM900 -Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS in geographic areas in which both GSM 900 and UTRA are deployed.
6.6.3.3.2	Co-existence with GSM900 - Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.6.3.4.1	Co-existence with DCS1800 -Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS and DCS 1800 BTS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.6.3.4.2	Co-existence with DCS1800 - Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.6.3.5	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.6.3.6	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to the downlink bands as defined in clause 5.2in geographic areas in which both an adjacent band service and UTRA are deployed.
6.6.3.7.1	Co-existence with UTRA TDD - Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.6.3.7.2	Co-existence with UTRA TDD - Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
6.6.3.8.1	Co-existence with UTRA in frequency band III -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.

6.6.3.8.2	Co-existence with UTRA in frequency band III - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.
6.6.3.9.1	Co-existence with UTRA in frequency band I -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.
6.6.3.9.2	Co-existence with UTRA in frequency band I - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.
6.6.3.10.1	Co-existence with PCS1900 - Co-located base stations	This requirement may be applied for the protection of PCS 1900 BTS receivers when PCS 1900 BTS and UTRA BS are co-located.
6.6.3.11.1	Co-existence with GSM850 - Co-located base stations	This requirement may be applied for the protection of GSM 850 BTS receivers when GSM 850 BTS and UTRA BS are co-located.
7.4.2	Adjacent Channel Selectivity Colocation with UTRA-TDD	This requirement may be applied for the protection of UTRA-FDD BS receivers when UTRA-FDD BS and UTRA-TDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
7.5.2	Blocking characteristics Colocation with GSM900, DCS 1800, PCS1900 and/or UTRA	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900, DCS1800, PCS1900, GSM850 and/or UTRA BS (operating in different frequency bands) are co-located.
7.5.3	Blocking characteristics Co- location with UTRA TDD	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and UTRA TDD BS are co-located.
7.6	Intermodulation characteristics	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
7.7	Spurious emissions	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
	HSDPA*	The portion of HSDPA(High Speed Downlink Packet Access) is not applicable to ARIB standards by the time when ARIB is prepared to transpose.

Note *: HSDPA: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.

- Next Section changed -

6.6.3.3 Co-existence with GSM 900

6.6.3.3.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 900 MS <u>and GSM 900 BTS receivers</u> in geographic areas in which both GSM 900 and UTRA are deployed.

6.6.3.3.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.11: BS Spurious emissions limits for BS in geographic coverage area of GSM 900 MS <u>and</u> <u>GSM 900 BTS</u> receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 – 915 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
921 - 960 MHz	-57 dBm	100 kHz	

6.6.3.3.2 Co-located base stations

This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.

6.6.3.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.12: BS Spurious emissions limits for protection of the GSM 900 BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876-915 MHz	-98 dBm	100 kHz	

6.6.3.4 Co-existence with DCS 1800

6.6.3.4.1 Operation in the same geographic area

This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS receivers</u> in geographic areas in which both DCS 1800 and UTRA are deployed.

6.6.3.4.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.13: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800 MS and DCS 1800 BTS receiver

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1805 - 1880 MHz	-47 dBm	100 kHz	
<u>l</u>	<u> 1710 – 1785 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	
III	1710 – 1785 MHz	-61 dBm	100 kHz	

6.6.3.4.2 Co-located base stations

This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.

6.6.3.4.2.1 Minimum Requirement

Table 6.14: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1710 - 1785 MHz	-98 dBm	100 kHz	
III	1710 – 1785 MHz	-98 dBm	100 kHz	

3GPP TSG RAN WG4 (Radio) Meeting #25 Secaucus, NJ, USA 11 - 15 November, 2002

R4-021659

	CHANGE REQUEST						
¥	25.104 CR 16	<mark>67</mark> ж rev		Ж	Current version:	3.10.0	\mathfrak{H}

*	2 <mark>5.104</mark> CR <mark>167</mark>	# Current version: 3.10.0 #
For <u>HELP</u> on us	ng this form, see bottom of this page	or look at the pop-up text over the 光 symbols.
Proposed change a	fects: UICC apps業 ME	Radio Access Network X Core Network
Title: ♯	FDD – GSM co-existence in the Sam	e Geographic Area
Source: #	RAN WG4	
Work item code: ₩	TEI	Date:
Category:	F	Release: # R99
	Use one of the following categories: F (correction) A (corresponds to a correction in an B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categorie found in 3GPP TR 21.900.	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999)
Reason for change	Requirements to protect GSM B GSM is deployed in the Same G	TS receiver (UL band) in case where FDD and seographic Area are missing.
Summary of chang	Requirement of –61dBm/100kHz requirement of –98dBm/100kHz between FDD and GSM. For co-	z is derived from the already existing co-location, whereas co-location is based on 30dB MCL excistence in the Same Geographic Area the with an MCL of 67dB is used (-98dBm/100kHz +
Consequences if not approved:	guaranteed based on the require A generic co-existence analysis for other systems. Isolated Impact Analysis: GSM network performance could if this CR is not approved.	in the Same Geographic Area can not be ements in 3GPP specifications. of FDD and GSM is not possible as it is possible d be affected by to high FDD Spurious Emission effect FDD implementation behaving like indicated
Clauses affected:	# 4.3, 6.3.3.1.1, 6.3.4.1.1	
Ciauses affected:	来 4.3, 6.3.3.1.1, 6.3.4.1.1 Y N	

affected:	X Test specifications O&M Specifications	TS 25.141
Other comments:	Equivalent CRs in other Releases: CR to 25.104 v5.4.0	149 cat. A to 25.104 v4.5.0, CR153 cat. A

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.3 Regional requirements

Some requirements in TS 25.104 may only apply in certain regions. Table 4.1 lists all requirements that may be applied differently in different regions.

Table 4.1: List of regional requirements

Clause number	Requirement	Comments
5.2 5.3	Frequency bands Tx-Rx Frequency Separation	Some bands may be applied regionally. The requirement is applied according to what frequency bands in Clause 5.2 that are supported
6.2.1	Base station maximum output power	by the BS. In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the range of conditions defined
6.6.2.1	Spectrum emission mask	as normal. The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.6.2.3	Protection outside a licensee's frequency block	This requirement is applicable if protection is required outside a licensee's frequency block.
6.6.3.1.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.6.3.1.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.6.3.3.1	Co-existence with GSM900 -Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS in geographic areas in which both GSM 900 and UTRA are deployed.
6.6.3.3.2	Co-existence with GSM900 - Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.6.3.4.1	Co-existence with DCS1800 -Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS and DCS 1800 BTS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.6.3.4.2	Co-existence with DCS1800 - Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.6.3.5	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.6.3.6	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to 2110-2170 MHz, as defined in sub-clause 5.2(a) and 1930-1990 MHz, as defined in sub-clause 5.2(b) in geographic areas in which both an adjacent band service and UTRA are deployed.
6.6.3.7.1	Co-existence with UTRA TDD - Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.6.3.7.2	Co-existence with UTRA TDD - Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
7.4.2	Adjacent Channel Selectivity Colocation with UTRA-TDD	This requirement may be applied for the protection of UTRA-FDD BS receivers when UTRA-FDD BS and UTRA-TDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands in Clause 5.2 that are supported by the BS.
7.5.2	Blocking characteristics Co- location with GSM900 and/or DCS 1800	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900/DCS1800 BS are co-located.
7.5.3	Blocking characteristics Co- location with UTRA TDD	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and UTRA TDD BS are co-located.

- Next Section Changed -

6.6.3.3 Co-existence with GSM 900

6.6.3.3.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 900 MS <u>and GSM 900 BTS receivers</u> in geographic areas in which both GSM 900 and UTRA are deployed.

6.6.3.3.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.11: BS Spurious emissions limits for BS in geographic coverage area of GSM 900 MS and GSM 900 BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
<u>876 – 915 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	
921 - 960 MHz	-57 dBm	100 kHz	

6.6.3.3.2 Co-located base stations

This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.

6.6.3.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.12: BS Spurious emissions limits for protection of the GSM 900 BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876-915 MHz	-98 dBm	100 kHz	

6.6.3.4 Co-existence with DCS 1800

6.6.3.4.1 Operation in the same geographic area

This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS receivers</u> in geographic areas in which both DCS 1800 and UTRA are deployed.

6.6.3.4.1.1 Minimum Requirement

Table 6.13: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800 MS <u>and</u> DCS 1800 BTS receiver

	Band	Maximum Level	Measurement Bandwidth	Note
	<u>1710 – 1785 MHz</u>	-61 dBm	100 kHz	
Γ	1805 - 1880 MHz	-47 dBm	100 kHz	

6.6.3.4.2 Co-located base stations

This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.

6.6.3.4.2.1 Minimum Requirement

Table 6.14: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Band	Maximum Level	Measurement Bandwidth	Note
1710 - 1785 MHz	-98 dBm	100 kHz	

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R4-021660

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Other specs affected:	X Other core specifications X TS 25.104 Test specifications O&M Specifications				
Other comments:	# Equivalent CRs in other Releases: CR264r1 cat. F to 25.141 v3.11.0, CR252r1 cat. A to 25.141 v5.4.0				

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

4.7 Regional requirements

Some requirements in TS 25.141 may only apply in certain regions. Table 4.4 lists all requirements that may be applied differently in different regions.

Table 4.4: List of regional requirements

Subclause number	Requirement	Comments
3.4.1	Frequency bands	Some bands may be applied regionally.
3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in subclause 3.4.1 that are supported by the BS.
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS in geographic areas in which both GSM 900 and UTRA are deployed.
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS and DCS 1800 BTS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.5.3.4.7	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to 2110-2170 MHz, as defined in subclause 3.4.1(a) and 1930-1990 MHz, as defined in subclause 3.4.1(b) in geographic areas in which both an adjacent band service and UTRA are deployed.
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands in subclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900/DCS1800 BS are co-located.

- Next Section Changed -

6.5.3.4.4 Co-existence with GSM 900

6.5.3.4.4.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS receivers in geographic areas in which both GSM 900 and UTRA are deployed.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

6.5.3.4.4.1.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.27: BS Spurious emissions limits for BS in geographic coverage area of GSM 900

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
921 MHz to 960 MHz	-57 dBm	100 kHz	

6.5.3.4.4.2 Co-located base stations

This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.

6.5.3.4.4.2.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.28: BS Spurious emissions limits for protection of the BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	-98 dBm	100 kHz	

6.5.3.4.5 Co-existence with DCS 1800

6.5.3.4.5.1 Operation in the same geographic area

This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS receivers</u> in geographic areas in which both DCS 1800 and UTRA are deployed.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

6.5.3.4.5.1.1 Minimum Requirement

Table 6.29: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800

Band	Maximum Level	Measurement Bandwidth	Note
1710 MHz to 1785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
1 805 MHz to 1 880 MHz	-47 dBm	100 kHz	

6.5.3.4.5.2 Co-located basestations

This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.

6.5.3.4.5.2.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.30: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Band	Maximum Level	Measurement Bandwidth	Note
1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	

- Next Section Changed -

6.5.3.7.4 Co-existence with GSM 900

6.5.3.7.4.1 Operation in the same geographic area

Table 6.38: BS Spurious emissions limits for BS in geographic coverage area of GSM 900

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
921 MHz to 960 MHz	-57 dBm	100 kHz	

6.5.3.7.4.2 Co-located base stations

Table 6.39: BS Spurious emissions limits for protection of the BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	–98 dBm	100 kHz	

6.5.3.7.5 Co-existence with DCS 1800

6.5.3.7.5.1 Operation in the same geographic area

Table 6.40: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800

	Band	Maximum Level	Measurement Bandwidth	Note
ĺ	1710 MHz to 1785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
ĺ	1 805 MHz to 1 880 MHz	-47 dBm	100 kHz	

6.5.3.7.5.2 Co-located base stations

Table 6.41: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Band	Maximum Level	Measurement Bandwidth	Note
1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	

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R4-021452

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CHANGE REQUEST							
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For <u>HELP</u>	on using this fo	orm, see bottom o	f this page or	ook at th	e pop-up text	over the 光 sy	mbols.
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Reason for change: %	Requirements to protect GSM 850 and PCS 1900 BS receiver (UL band) in case where FDD and GSM 850 and/or PCS 1900 is deployed in the Same Geographic Area are missing.
Summary of change: #	Requirements for FDD to protect GSM 850 and PCS 1900 BTS receiver in case of deployment in the Same Geographic Area is introduced.
Consequences if # not approved:	Co-existence of FDD and GSM 850/PCS 1900 in the Same Geographic Area can not be guaranteed based on the requirements in 3GPP specifications. A generic co-existence analysis of FDD and GSM 850/PCS1900 is not possible as it is possible for other systems.

Clauses affected:	% 4.7, 6.5.3.4.11, 6.5.3.4.12, 6.5.3.7.11, 6.5.3.7.12			
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications			
Other comments:	ж			

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1) Fill out the above form. The symbols above marked \$\mathbb{x}\$ contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.7 Regional requirements

Some requirements in TS 25.141 may only apply in certain regions. Table 4.4 lists all requirements that may be applied differently in different regions.

Table 4.4: List of regional requirements

Subclause number	Requirement	Comments		
3.4.1	Frequency bands	Some bands may be applied regionally.		
3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.		
3.5.	Channel arrangement	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.		
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.		
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.		
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329- [4], are applied.		
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329- [4], are applied.		
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS in geographic areas in which both GSM 900 and UTRA are deployed.		
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.		
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS in geographic areas in which both DCS 1800 and UTRA are deployed.		
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.		
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.		
6.5.3.4.7	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to the downlink band as defined in clause 3.4.1 in geographic areas in which both an adjacent band service and UTRA are deployed.		
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.		
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.		
6.5.3.4.9.1	Co-existence with UTRA in frequency band III -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.		
6.5.3.4.9.2	Co-existence with UTRA in frequency band III - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.		
6.5.3.4.10.1	Co-existence with UTRA in frequency band I -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.		
6.5.3.4.10.2	Co-existence with UTRA in frequency band I - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.		
6.5.3.4.11.1	Co-existence with PCS1900 -Operation in the same geographic area	This requirement may be applied for the protection of PCS 1900 BTS receivers in geographic areas in which both PCS 1900 and UTRA are deployed.		
6.5.3.4.11.4 <u>2</u>	Co-existence with PCS1900 -	This requirement may be applied for the protection		

	Co-located base stations	of PCS 1900 BTS receivers when PCS 1900 BTS and UTRA BS are co-located.
6.5.3.4.12.1	Co-existence with GSM850 -Operation in the same geographic area	This requirement may be applied for the protection of GSM 850 MS and GSM 850 BTS receivers in geographic areas in which both GSM 850 and UTRA are deployed.
6.5.3.4.12.4 <u>2</u>	Co-existence with GSM 850 - Co-located base stations	This requirement may be applied for the protection of GSM 850 BTS receivers when GSM 850 BTS and UTRA BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands inclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900, GSM850, PCS 1900 and BS operating in the /DCS1800 band (GSM or UTRA) are co-located.
7.6	Intermodulation characteristics	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
7.7	Spurious emissions	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
	HSDPA*	The portion of HSDPA(High Speed Downlink Packet Access) is not applicable to ARIB standards by the time when ARIB is prepared to transpose.

Note: HSDPA*: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.

Next Section Changed –

6.5.3.4.11 Co-existence with PCS1900

6.5.3.4.11.1 Operation in the same geographic area

This requirement may be applied for the protection of PCS 1900 BS receiver in geographic areas in which both PCS 1900 and UTRA BS operating in the frequency band II are deployed.

6.5.3.4.11.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table X.XX: BS Spurious emissions limits for BS in geographic coverage area of PCS 1900 BS

Operating Band	<u>Band</u>	Maximum Level	Measurement Bandwidth	<u>Note</u>
<u>II</u>	<u> 1850 - 1910 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	

6.5.3.4.11.42 Co-located base stations

This requirement may be applied for the protection of PCS1900 BS receivers when UTRA BS operating in frequency band II and PCS1900 BS are co-located.

6.5.3.4.11.42.1 Minimum Requirement

Table 6.34E: BS Spurious emissions limits for BS co-located with PCS1900 BS

Operating Band	·		Measurement Bandwidth	Note
	1850 – 1910 MHz	-98 dBm	100 kHz	

6.5.3.4.12 Co-existence with GSM850

6.5.3.4.12.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 850 MS and GSM 850 BS receiver in geographic areas in which both GSM 850 and UTRA BS operating in the frequency band II are deployed.

6.5.3.4.12.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table X.XX: BS Spurious emissions limits for BS in geographic coverage area of GSM 850

Operating Band	<u>Band</u>	Maximum Level	Measurement Bandwidth	<u>Note</u>
<u>II</u>	<u>824 - 849 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	
<u>II</u>	<u>869 – 894 MHz</u>	<u>-57 dBm</u>	<u>100 kHz</u>	

6.5.3.4.12.42 Co-located base stations

This requirement may be applied for the protection of GSM850 BS receivers when UTRA BS operating in frequency band II and GSM850 BS are co-located.

6.5.3.4.12.42.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.34F: BS Spurious emissions limits for BS co-located with GSM850 BS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
=	824 - 849 MHz	-98 dBm	100 kHz	

Next Section Changed –

6.5.3.7.11 Co-existence with PCS1900

6.5.3.7.11.1 Operation in the same geographic area

Table X.XX: BS Spurious emissions limits for BS in geographic coverage area of PCS 1900 BS

Operating Band	<u>Band</u>	Maximum Level	Measurement Bandwidth	<u>Note</u>
<u>II</u>	<u> 1850 - 1910 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	

NOTE: If the above Test Requirement differs from the Minimum Requirement then the Test Tolerance applied for this test is non-zero. The Test Tolerance for this test is defined in subclause 4.2 and the explanation of how the Minimum Requirement has been relaxed by the Test Tolerance is given in Annex F.

6.5.3.7.11.42 Co-located base stations

Table 6.50: BS Spurious emissions limits for BS co-located with PCS1900 BS

Operating Band			Measurement Bandwidth	Note
II	1850 – 1910 MHz	-98 dBm	100 kHz	

NOTE: If the above Test Requirement differs from the Minimum Requirement then the Test Tolerance applied for this test is non-zero. The Test Tolerance for this test is defined in subclause 4.2 and the explanation of how the Minimum Requirement has been relaxed by the Test Tolerance is given in Annex F.

6.5.3.7.12 Co-existence with GSM850

6.5.3.7.12.1 Operation in the same geographic area

Table X.XX: BS Spurious emissions limits for BS in geographic coverage area of GSM 850

Operating Band	<u>Band</u>	Maximum Level	Measurement Bandwidth	<u>Note</u>
<u>II</u>	<u>824 - 849 MHz</u>	<u>-61 dBm</u>	<u>100 kHz</u>	
<u>II</u>	<u>869 – 894 MHz</u>	<u>-57 dBm</u>	<u>100 kHz</u>	

6.5.3.7.12.42 Co-located base stations

Table 6.51: BS Spurious emissions limits for BS co-located with GSM850 BS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
ll l	824 – 849 MHz	-98 dBm	100 kHz	

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4.7 Regional requirements

Some requirements in TS 25.141 may only apply in certain regions. Table 4.4 lists all requirements that may be applied differently in different regions.

Table 4.4: List of regional requirements

Subclause number	Requirement	Comments
3.4.1	Frequency bands	Some bands may be applied regionally.
3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
3.5.	Channel arrangement	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329- [4], are applied.
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329- [4], are applied.
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS in geographic areas in which both GSM 900 and UTRA are deployed.
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS</u> in geographic areas in which both DCS 1800 and UTRA are deployed.
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.5.3.4.7	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to the downlink band as defined in clause 3.4.1 in geographic areas in which both an adjacent band service and UTRA are deployed.
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
6.5.3.4.9.1	Co-existence with UTRA in frequency band III -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.
6.5.3.4.9.2	Co-existence with UTRA in frequency band III - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.
6.5.3.4.10.1	Co-existence with UTRA in frequency band I -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.
6.5.3.4.10.2	Co-existence with UTRA in frequency band I - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.
6.5.3.4.11.1	Co-existence with PCS1900 - Co-located base stations	This requirement may be applied for the protection of PCS 1900 BTS receivers when PCS 1900 BTS

		and UTRA BS are co-located.
6.5.3.4.12.1	Co-existence with GSM 850 - Co-located base stations	This requirement may be applied for the protection of GSM 850 BTS receivers when GSM 850 BTS and UTRA BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands inclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900, GSM850, PCS 1900 and BS operating in the /DCS1800 band (GSM or UTRA) are co-located.
7.6	Intermodulation characteristics	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
7.7	Spurious emissions	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
	HSDPA*	The portion of HSDPA(High Speed Downlink Packet Access) is not applicable to ARIB standards by the time when ARIB is prepared to transpose.

Note: HSDPA*: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.

- Next Section Changed -

6.5.3.4.4 Co-existence with GSM 900

6.5.3.4.4.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS receivers in geographic areas in which both GSM 900 and UTRA are deployed.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

6.5.3.4.4.1.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.27: BS Spurious emissions limits for BS in geographic coverage area of GSM 900

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
921 MHz to 960 MHz	-57 dBm	100 kHz	

6.5.3.4.4.2 Co-located base stations

This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.

6.5.3.4.4.2.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.28: BS Spurious emissions limits for protection of the BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	-98 dBm	100 kHz	

6.5.3.4.5 Co-existence with DCS 1800

6.5.3.4.5.1 Operation in the same geographic area

This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS receivers</u> in geographic areas in which both DCS 1800 and UTRA are deployed.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

6.5.3.4.5.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.29: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
	1 805 MHz to 1 880 MHz	-47 dBm	100 kHz	
<u>I</u>	1 710 MHz to 1 785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
<u>III</u>	1 710 MHz to 1 785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	

6.5.3.4.5.2 Co-located basestations

This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.

6.5.3.4.5.2.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.30: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
[1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	
III	1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	

Next Section Changed –

6.5.3.7.4 Co-existence with GSM 900

6.5.3.7.4.1 Operation in the same geographic area

Table 6.38: BS Spurious emissions limits for BS in geographic coverage area of GSM 900

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	<u>-61 dBm</u>	100 kHz	
921 MHz to 960 MHz	-57 dBm	100 kHz	

6.5.3.7.4.2 Co-located base stations

Table 6.39: BS Spurious emissions limits for protection of the BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	–98 dBm	100 kHz	

6.5.3.7.5 Co-existence with DCS 1800

6.5.3.7.5.1 Operation in the same geographic area

Table 6.40: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1 805 MHz to 1 880 MHz	-47 dBm	100 kHz	
<u>l</u>	1 710 MHz to 1 785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
<u>III</u>	1 710 MHz to 1 785 MHz	<u>-61 dBm</u>	100 kHz	

6.5.3.7.5.2 Co-located base stations

Table 6.41: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	
III	1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	

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Table 4.4: List of regional requirements

Subclause number	Requirement	Comments
3.4.1	Frequency bands	Some bands may be applied regionally.
3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in subclause 3.4.1 that are supported by the BS.
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [4], are applied.
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [4], are applied.
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS in geographic areas in which both GSM 900 and UTRA are deployed.
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS and DCS 1800 BTS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.5.3.4.7	Coexistence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to 2110-2170 MHz, as defined in subclause 3.4.1(a) and 1930-1990 MHz, as defined in subclause 3.4.1(b) in geographic areas in which both an adjacent band service and UTRA are deployed.
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands in subclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900/DCS1800 BS are co-located.

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6.5.3.4.4 Co-existence with GSM 900

6.5.3.4.4.1 Operation in the same geographic area

This requirement may be applied for the protection of GSM 900 MS and GSM 900 BTS receivers in geographic areas in which both GSM 900 and UTRA are deployed.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

6.5.3.4.4.1.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.27: BS Spurious emissions limits for BS in geographic coverage area of GSM 900

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
921 MHz to 960 MHz	-57 dBm	100 kHz	

6.5.3.4.4.2 Co-located base stations

This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.

6.5.3.4.4.2.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.28: BS Spurious emissions limits for protection of the BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	-98 dBm	100 kHz	

6.5.3.4.5 Co-existence with DCS 1800

6.5.3.4.5.1 Operation in the same geographic area

This requirement may be applied for the protection of DCS 1800 MS <u>and DCS 1800 BTS receivers</u> in geographic areas in which both DCS 1800 and UTRA are deployed.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

6.5.3.4.5.1.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.29: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800

Band	Maximum Level	Measurement Bandwidth	Note
1710 MHz to 1785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
1 805 MHz to 1 880 MHz	-47 dBm	100 kHz	

6.5.3.4.5.2 Co-located basestations

This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.

6.5.3.4.5.2.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.30: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

	Band	Maximum Level	Measurement Bandwidth	Note
1 710 M	Hz to 1 785 MHz	-98 dBm	100 kHz	

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6.5.3.7.4 Co-existence with GSM 900

6.5.3.7.4.1 Operation in the same geographic area

Table 6.38: BS Spurious emissions limits for BS in geographic coverage area of GSM 900

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
921 MHz to 960 MHz	-57 dBm	100 kHz	

6.5.3.7.4.2 Co-located base stations

Table 6.39: BS Spurious emissions limits for protection of the BTS receiver

Band	Maximum Level	Measurement Bandwidth	Note
876 MHz to 915 MHz	–98 dBm	100 kHz	

6.5.3.7.5 Co-existence with DCS 1800

6.5.3.7.5.1 Operation in the same geographic area

Table 6.40: BS Spurious emissions limits for BS in geographic coverage area of DCS 1800

	Band	Maximum Level	Measurement Bandwidth	Note
ĺ	1710 MHz to 1785 MHz	<u>-61 dBm</u>	<u>100 kHz</u>	
ĺ	1 805 MHz to 1 880 MHz	-47 dBm	100 kHz	

6.5.3.7.5.2 Co-located base stations

Table 6.41: BS Spurious emissions limits for BS co-located with DCS 1800 BTS

Band	Maximum Level	Measurement Bandwidth	Note
1 710 MHz to 1 785 MHz	-98 dBm	100 kHz	