RP-040191

TSG RAN Meeting #24 Seoul, Korea, 2 - 4 June 2004

Title	CRs (Rel-4 and Rel-5/Rel-6 Category A) to TS 25.104 & TS 25.141 for "Spurious emissions: Co-existence with services in adjacent frequency
	bands"
Source	TSG RAN WG4
Agenda Item	7.5.4

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-040262	25.106	030		F	Rel-4	4.7.0	Spurious emissions: Co-existence with services in adjacent frequency bands	RInImp-REP
R4-040263	25.106	031		A	Rel-5	5.7.0	Spurious emissions: Co-existence with services in adjacent frequency bands	RInImp-REP
R4-040264	25.106	032		А	Rel-6	6.0.0	Spurious emissions: Co-existence with services in adjacent frequency bands	RInImp-REP
R4-040265	25.143	041		F	Rel-4	4.9.0	Spurious emissions: Co-existence with services in adjacent frequency bands	RInImp-REP
R4-040266	25.143	042		A	Rel-5	5.7.0	Spurious emissions: Co-existence with services in adjacent frequency bands	RInImp-REP
R4-040267	25.143	043		А	Rel-6	6.0.0	Spurious emissions: Co-existence with services in adjacent frequency bands	RInImp-REP

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- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

9.2.5 Co-existence with PHS

This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA-FDD Repeaters are deployed.

9.2.5.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 9.13: UTRA Repeater spurious emissions limits for in geographic coverage area of PHS

Band	Maximum Level	Measurement Bandwidth	Note
1893,5 - 1919,6 MHz	-41 dBm	300 kHz	

9.2.6 Co-existence 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 5.1(a) and 1930-1990 MHz, as defined in sub-clause 5.1(b) in geographic areas in which both an adjacent band service and UTRA are deployed.

9.2.6.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.13a: UTRA Repeater spurious emissions limits for protection of adjacent band services

Band (f)	Maximum Level	Measurement Bandwidth	<u>Note</u>
2 100 MHz to 2 105 MHz For operation in frequency bands as defined in subclause 5.1(a)	<u>-30 + 3,4 (f - 2 100 MHz) dBm</u>	<u>1 MHz</u>	
2 175 MHz to 2 180 MHz For operation in frequency bands as defined in subclause 5.1(a)	<u>-30 + 3,4 (2 180 MHz - f) dBm</u>	<u>1 MHz</u>	
<u>1 920 MHz to 1 925 MHz</u> For operation in frequency bands as defined in subclause 5.1(b)	<u>-30 + 3,4 (f – 1 920 MHz) dBm</u>	<u>1 MHz</u>	
<u>1 995 MHz to 2 000 MHz</u> For operation in frequency bands as defined in subclause 5.1(b)	<u>-30 + 3,4 (2 000 MHz – f) dBm</u>	<u>1 MHz</u>	

9.2.67 Co-existence with UTRA-TDD

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9.2.5 Co-existence with PHS

This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA-FDD Repeaters are deployed.

9.2.5.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.13: UTRA Repeater Spurious emissions limits for in geographic coverage area of PHS

Band	Maximum Level	Measurement Bandwidth	Note
1893,5 - 1919,6 MHz	-41 dBm	300 kHz	

9.2.6 Co-existence with services in adjacent frequency bands

This requirement may be applied for the protection in bands adjacent to bands I or II, as defined in clause 5.1 in geographic areas in which both an adjacent band service and UTRA are deployed.

9.2.6.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.13a: UTRA Repeater spurious emissions limits for protection of adjacent band services

Operating Band	<u>Band</u>	<u>Maximum Level</u>	Measurement Bandwidth	<u>Note</u>
l	2100-2105 MHz	<u>-30 + 3.4 (f - 2100 MHz) dBm</u>	<u>1 MHz</u>	
	2175-2180 MHz	<u>-30 + 3.4 (2180 MHz - f) dBm</u>	<u>1 MHz</u>	
<u> </u>	<u>1920-1925 MHz</u>	<u>-30 + 3.4 (f - 1920 MHz) dBm</u>	<u>1 MHz</u>	
	<u>1995-2000 MHz</u>	<u>-30 + 3.4 (2000 MHz - f) dBm</u>	<u>1 MHz</u>	

9.2.67 Co-existence with UTRA-TDD

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9.2.5 Co-existence with PHS

This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA-FDD Repeaters are deployed.

9.2.5.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.13: UTRA Repeater Spurious emissions limits for in geographic coverage area of PHS

Band	Maximum Level	Measurement Bandwidth	Note
1893,5 - 1919,6 MHz	-41 dBm	300 kHz	

9.2.6 Co-existence with services in adjacent frequency bands

This requirement may be applied for the protection in bands adjacent to bands I or II, as defined in clause 5.1 in geographic areas in which both an adjacent band service and UTRA are deployed.

9.2.6.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.13a: UTRA Repeater spurious emissions limits for protection of adjacent band services

Operating Band	<u>Band</u>	<u>Maximum Level</u>	Measurement Bandwidth	<u>Note</u>
l	2100-2105 MHz	<u>-30 + 3.4 (f - 2100 MHz) dBm</u>	<u>1 MHz</u>	
	2175-2180 MHz	<u>-30 + 3.4 (2180 MHz - f) dBm</u>	<u>1 MHz</u>	
<u> </u>	<u>1920-1925 MHz</u>	<u>-30 + 3.4 (f - 1920 MHz) dBm</u>	<u>1 MHz</u>	
	<u>1995-2000 MHz</u>	<u>-30 + 3.4 (2000 MHz - f) dBm</u>	<u>1 MHz</u>	

9.2.67 Co-existence with UTRA-TDD

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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.

9.2.2.6 Co-existence with PHS

This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA-FDD Repeaters are deployed.

9.2.2.6.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.17: UTRA Repeater Spurious emissions limits for in geographic coverage area of PHS

Band	Maximum Level	Measurement Bandwidth	Note
1893,5 - 1919,6 MHz	-41 dBm	300 kHz	

9.2.2.7 Co-existence 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 4.1(a) and 1930-1990 MHz, as defined in sub-clause 4.1(b) in geographic areas in which both an adjacent band service and UTRA are deployed.

9.2.2.7.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.17a: UTRA Repeater spurious emissions limits for protection of adjacent band services

Band (f)	<u>Maximum Level</u>	Measurement Bandwidth	<u>Note</u>
2 100 MHz to 2 105 MHz For operation in frequency bands as defined in subclause 4.1(a)	<u>-30 + 3,4 (f - 2 100 MHz) dBm</u>	<u>1 MHz</u>	
2 175 MHz to 2 180 MHz For operation in frequency bands as defined in subclause 4.1(a)	<u>-30 + 3,4 (2 180 MHz - f) dBm</u>	<u>1 MHz</u>	
<u>1 920 MHz to 1 925 MHz</u> For operation in frequency bands as defined in subclause 4.1(b)	<u>-30 + 3,4 (f – 1 920 MHz) dBm</u>	<u>1 MHz</u>	
<u>1 995 MHz to 2 000 MHz</u> For operation in frequency bands as defined in subclause 4.1(b)	<u>-30 + 3,4 (2 000 MHz – f) dBm</u>	<u>1 MHz</u>	

9.2.2.78 Co-existence with UTRA-TDD

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9.2.2.6 Co-existence with PHS

This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA-FDD Repeaters are deployed.

9.2.2.6.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.17: UTRA Repeater Spurious emissions limits for in geographic coverage area of PHS

Band	Maximum Level	Measurement Bandwidth	Note
1893,5 - 1919,6 MHz	-41 dBm	300 kHz	

9.2.2.7 Co-existence with services in adjacent frequency bands

This requirement may be applied for the protection in bands adjacent to bands I or II, as defined in clause 4.1 in geographic areas in which both an adjacent band service and UTRA are deployed.

9.2.2.7.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.17: UTRA Repeater spurious emissions limits for protection of adjacent band services

<u>Operating</u> <u>Band</u>	<u>Band</u>	<u>Maximum Level</u>	Measurement Bandwidth	<u>Note</u>
<u>l</u>	2100-2105 MHz	<u>-30 + 3.4 (f - 2100 MHz) dBm</u>	<u>1 MHz</u>	
	2175-2180 MHz	<u>-30 + 3.4 (2180 MHz - f) dBm</u>	<u>1 MHz</u>	
<u> </u>	<u>1920-1925 MHz</u>	<u>-30 + 3.4 (f - 1920 MHz) dBm</u>	<u>1 MHz</u>	
	<u>1995-2000 MHz</u>	<u>-30 + 3.4 (2000 MHz - f) dBm</u>	<u>1 MHz</u>	

9.2.2.78 Co-existence with UTRA-TDD

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- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

9.2.2.6 Co-existence with PHS

This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA-FDD Repeaters are deployed.

9.2.2.6.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.17: UTRA Repeater Spurious emissions limits for in geographic coverage area of PHS

Band	Maximum Level	Measurement Bandwidth	Note
1893,5 - 1919,6 MHz	-41 dBm	300 kHz	

9.2.2.7 Co-existence with services in adjacent frequency bands

This requirement may be applied for the protection in bands adjacent to bands I or II, as defined in clause 4.1 in geographic areas in which both an adjacent band service and UTRA are deployed.

9.2.2.7.1 Minimum requirement

The power of any spurious emission shall not exceed:

Table 9.17: UTRA Repeater spurious emissions limits for protection of adjacent band services

<u>Operating</u> <u>Band</u>	<u>Band</u>	<u>Maximum Level</u>	Measurement Bandwidth	<u>Note</u>
<u>l</u>	2100-2105 MHz	<u>-30 + 3.4 (f - 2100 MHz) dBm</u>	<u>1 MHz</u>	
	2175-2180 MHz	<u>-30 + 3.4 (2180 MHz - f) dBm</u>	<u>1 MHz</u>	
<u> </u>	<u>1920-1925 MHz</u>	<u>-30 + 3.4 (f - 1920 MHz) dBm</u>	<u>1 MHz</u>	
	<u>1995-2000 MHz</u>	<u>-30 + 3.4 (2000 MHz - f) dBm</u>	<u>1 MHz</u>	

9.2.2.78 Co-existence with UTRA-TDD