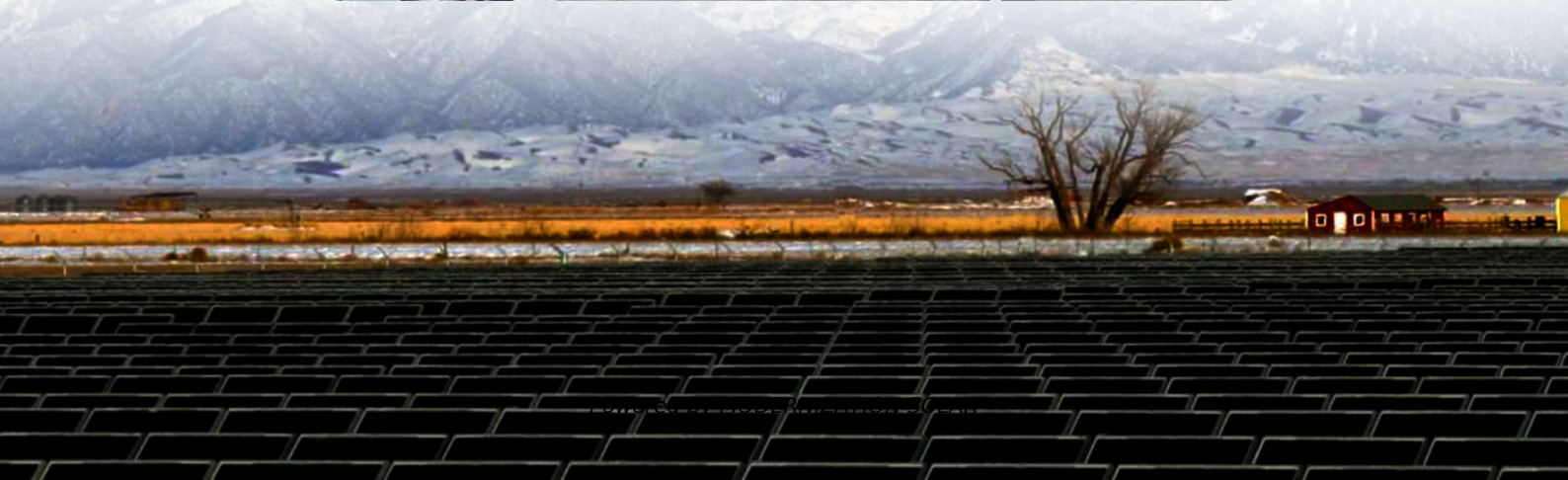


5g base station electromagnetic battery testing national standard





Overview

Does 5G signal exposure affect base station compliance?

This agrees with measurements done in other countries whose authors conclude that the exposure to 5G signals is limited , , , but this does not assure the base station compliance as full load situation should be considered for such assessment. It also shows that the increase in the EMF field is due to the induced data traffic.

Do 5G base stations need a field meter?

Fast variation of the user load and beamforming techniques may cause large fluctuations of 5G base stations field level. They may be underestimated, resulting in compliance of base stations not fitting the requirements. Apparently, broadband field meters would not be adequate for measuring such environments.

Can broadband field probes be used for 5G exposure assessment?

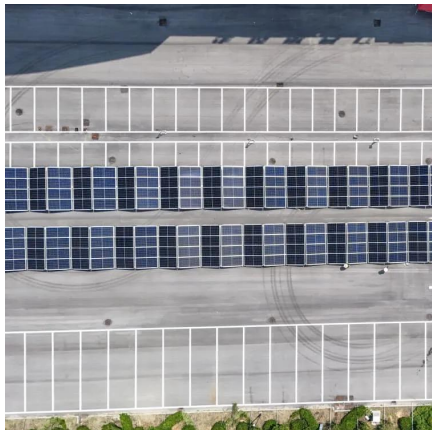
The use of broadband field probes for 5G exposure assessment is still possible under certain considerations and correcting the results considering the base station load and beamforming effects. 5G networks deployment poses new challenges when evaluating human exposure to electromagnetic fields.

Can SSB be used for 5G NR?

Before performing the power measurement of the SSB, its center frequency must be determined. According to 5G NR standard , its exact frequency location may vary from one base station to other. Fortunately, the SA can also be used for this scanning purpose.



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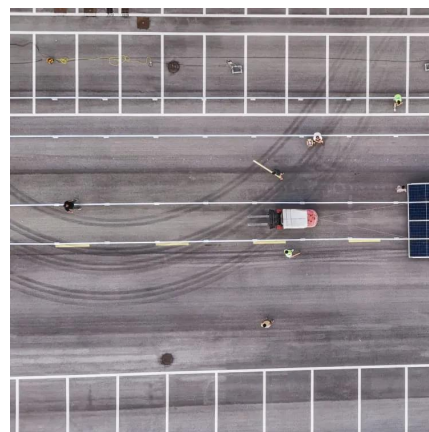


Base station testing

Jan 7, 2025 · Traditionally base stations have been verified by measuring their performance conductively at the antenna interface. With 5G, we ...

[IEC approves new 5G EMF exposure ...](#)

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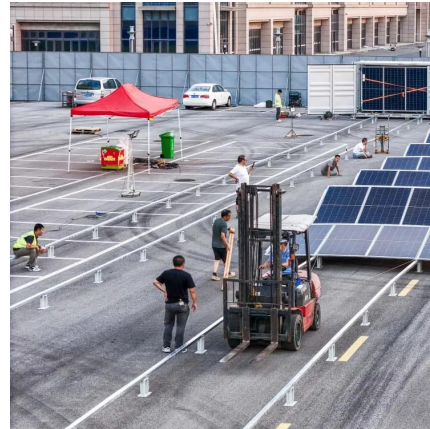


HJ 1151-2020 Standard english version, China National Standards...

Transcustoms provide HJ 1151-2020 standard english PDF version, 5G mobile communication base station electromagnetic radiation environment monitoring method (trial) ...

[Human exposure to EMF from 5G base stations: analysis, ...](#)

Apr 1, 2024 · Performance of three different methodologies and equipment (broadband probes, spectrum analyzers, and drive test scanners), in the context of human exposure to



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Feb 21, 2024 · Knowledge of the electromagnetic radiation characteristics of 5G base stations under different circumstances is useful for risk prevention, assessment, and management. ...



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ETSI TS 138 113 V18.4.0 (2025-04)

TECHNICAL SPECIFICATION 5G; NR; Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 18.4.0 Release 18) 3GPP TS 38.113 version 18.4.0 Release 18 1 ...



TS 138 141-1

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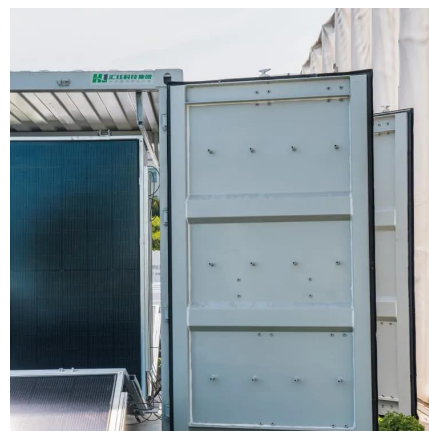


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TS 138 113

ETSI EN 301 489-50: "Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for cellular communication base station (BS), repeater ...



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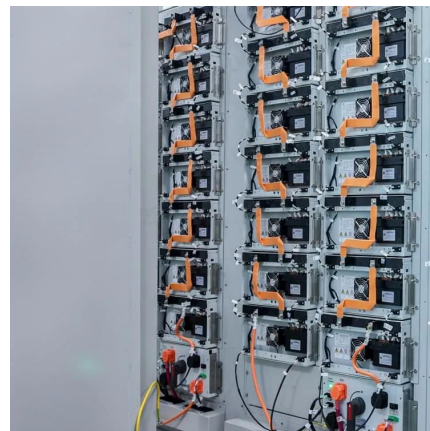


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