

携帯電話機の電波防護への適合性について

この機種【SO-54C】の携帯電話機は、国が定めた電波の人体吸収に関する技術基準に適合しています。

この携帯電話機は、国が定めた電波の人体吸収に関する技術基準(※1)を遵守するよう設計されています。この技術基準は、世界保健機関（WHO）と協力関係にある国際非電離放射線防護委員会（ICNIRP）や米国電気電子学会（IEEE）電磁界安全に係る国際委員会（ICES）が定める電波防護許容値との整合性を考慮しつつ国が定めたものであり、その許容値は使用者の年齢や健康状況に関係なく十分な安全率を含んでいます。

国の技術基準は電波防護の許容値を人体に吸収される電波の平均エネルギー量を表す比吸収率（SAR: Specific Absorption Rate、6 GHz以下の周波数の場合）および電力密度（PD: Power Density、6 GHzを超える周波数の場合）で定めており、携帯電話機に対するSAR、PDの許容値はそれぞれ2 W/kg、2 mW/cm²です。また、それぞれの指標で評価すべき無線機能が同時に動作する場合には、総合照射比で示すことを規定しています。総合照射比が1以下であれば、許容値を満足しています。

この携帯電話機の総合照射比は、側頭部における最大値：**0.88**（※2）、身体に装着した場合の最大値：**0.42**（※3）となっています（※4）。携帯電話機は、携帯電話基地局との通信に必要な最低限の送信電力になるよう設計されているため、実際に通話等を行っている状態では、通常SAR、PDはより小さい値となります。個々の製品によってこれらの数値に多少の差異が生じることもありますが、いずれも許容値を満足しています。

この携帯電話機は、側頭部以外の位置でも使用可能です。キャリングケース等のアクセサリをご使用するなどして、身体から1.5以上離し、かつその間に金属(部分)が含まれないようにしてください。このことにより、本携帯電話機が国の技術基準に適合していることを確認しています。

世界保健機関は、『携帯電話が潜在的な健康リスクをもたらすかどうかを評価するために、これまで20年以上にわたって多数の研究が行われてきました。今日まで、携帯電話使用によって生じるとされる、いかなる健康影響も確立されていません。』と表明しています。

さらに詳しい情報をお知りになりたい場合には世界保健機関のホームページをご参照ください。

<https://www.who.int/news-room/fact-sheets/detail/electromagnetic-fields-and-public-health-mobile-phones>

携帯電話機の電波防護について、さらに詳しい情報をお知りになりたい方は、下記のホームページをご参照ください。

総務省のホームページ

<https://www.tele.soumu.go.jp/j/sys/ele/index.htm>

一般社団法人電波産業会のホームページ

<https://www.arib-emf.org/01denpa/denpa02-02.html>

ドコモのホームページ

<https://www.docomo.ne.jp/product/sar/>

Xperia オフィシャルサイトのサポートホームページ

<https://xperia.sony.jp/product/SAR/>

- ※1 技術基準については、電波法関連省令（無線設備規則第 14 条の 2）で規定されています。
- ※2 5G/LTE と同時に使用可能な無線機能を含みます。
- ※3 5G/LTE と同時に使用可能な無線機能を含みます。
- ※4 この携帯電話機の総合照射比を算出するために使用した値は、側頭部：SAR 1.70 W/kg、PD 0.05 mW/cm²、身体装着時：SAR 0.65 W/kg、PD 0.18 mW/cm²です。

Compliance Information on Human Exposure to Radio Waves of Mobile Phones

This model [SO-54C] mobile phone complies with the Japanese technical regulations regarding human exposure to radio waves.

This mobile phone was designed in observance of the Japanese technical regulations regarding human exposure to radio waves (*1). These technical regulations are consistent with the limits of human exposure to radio waves established by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which is in collaboration with the World Health Organization (WHO), and the International Committee on Electromagnetic Safety (ICES) in the IEEE. The permissible limits include substantial safety margins designed to assure the safety of all persons, regardless of age and health conditions.

The technical regulations set out the limits of exposure to radio waves as the SAR (Specific Absorption Rate, for up to 6 GHz) and the PD (Power Density, for above 6 GHz), and the limits for the SAR and the PD for mobile phones are 2 W/kg and 2 mW/cm², respectively. If mobile phone supports simultaneous transmission of the frequency bands which should be evaluated in the SAR and PD, the technical regulations require that the Total Exposure Ratio (TER) should be used to indicate its compliance. The TER of less than or equal to 1 indicates the mobile phone satisfies the limits.

The TER for this mobile phone when tested for use near the head is **0.88** (*2), and that when worn on the body is **0.42** (*3) (*4). There may be slight differences of the SAR and PD values in individual product, but they all satisfy the limits. The actual values of SAR and PD of this mobile phone while operating can be well below the indicated above. This is due to automatic changes in the power level of the device to ensure it only uses the minimum power required to access the network.

This mobile phone can be used in positions other than against your head. By using accessories such as a belt clip holster that maintains a 1.5 cm separation with no metal (parts) between it and the body, this mobile phone is certified the compliance with the Japanese technical regulations.

The World Health Organization has stated that "a large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use."

Please refer to the WHO website if you would like more detailed information.

<https://www.who.int/news-room/fact-sheets/detail/electromagnetic-fields-and-public-health-mobile-phones>

Please refer to the websites listed below if you would like more detailed information regarding protection against human exposure to radio waves.

Ministry of Internal Affairs and Communications Website:

<https://www.tele.soumu.go.jp/e/sys/ele/index.htm>

Association of Radio Industries and Businesses Website:

<https://www.arib-emf.org/01denpa/denpa02-02.html> (in Japanese only)

NTT DOCOMO, INC. Website:

<https://www.docomo.ne.jp/english/product/sar/>

Support page on Xperia official website:

<https://xperia.sony.jp/product/SAR/> (in Japanese only)

*1 The technical regulations are provided in Article 14-2 of Radio Equipment Regulations, a Ministerial Ordinance of the Radio Act.

*2 Including other radio systems that can be simultaneously used with 5G/LTE.

*3 Including other radio systems that can be simultaneously used with 5G/LTE.

*4 The SAR and PD values used for obtaining TER for this mobile phone are: SAR of 1.70 W/kg and PD of 0.05 mW/cm² for use near the head, and SAR of 0.65 W/kg and PD of 0.18 mW/cm² when worn on the body.

Important Information United States

THIS PHONE MODEL HAS BEEN CERTIFIED IN COMPLIANCE WITH THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

This mobile phone model SO-54C has been designed to comply with applicable safety requirements for exposure to radio waves. Your wireless phone is a radio transmitter and receiver. It is designed to not exceed the limits* of exposure to radio frequency (RF) energy set by governmental authorities. These limits establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by international scientific organizations through periodic and thorough evaluation of scientific studies.

The standards include a safety margin designed to assure the safety of all individuals, regardless of age and health. The radio wave exposure guidelines employ a unit of measurement known as the Specific Absorption Rate (SAR). Tests for SAR are conducted using standardized methods with the phone transmitting at its highest certified power level in all used frequency bands. While there may be differences between the SAR levels of various phone models, they are all designed to meet the relevant guidelines for exposure to radio waves. The highest SAR value as reported to the authorities for this phone model when tested for use by the ear is **0.58 W/kg***, when worn on the body is 0.49 W/kg* and when WiFi hotspot mode is **0.49 W/kg**. For body-worn operation, this phone has been tested and meets the FCC RF exposure guidelines. Please use an accessory designated for this product or an accessory which contains no metal and which positions the handset a minimum of 10 mm from the body.

For devices which include "WiFi hotspot" functionality, SAR measurements for the device operating in WiFi hotspot mode were taken using a separation distance of 10 mm. When using the device as a charger, you need to put the phone on a flat surface and 20 cm separation distance from user during the charging mode. Use of third-party accessories may result in different SAR levels than those reported.

** Before a phone model is available for sale to the public in the US, it must be tested and certified by the Federal Communications Commission (FCC) that it does not exceed the limit established by the government-adopted requirement for safe exposure*. The tests are performed in positions and locations (i.e., by the ear and worn on the body) as required by the FCC for each model. The FCC has granted an Equipment Authorization for this phone model with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. While there may be differences between the SAR levels of various phones, all mobile phones granted an FCC equipment authorization meet the government requirement for safe exposure. SAR information on this phone model is on file at the FCC and can be found under the Display Grant section of <https://www.fcc.gov/oet/ea/fccid> after searching on FCC ID **PY7-93060R**. Additional SAR-related information can also be found on the Mobile and Wireless Forum at <https://www.mwfai.org/>.

* In the United States, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a margin of safety to give additional protection for the public and to account for any variations in measurements.

** This paragraph is only applicable to authorities and customers in the United States.

Europe

This mobile phone model SO-54C has been designed to comply with applicable safety requirements for exposure to radio waves. These requirements are based on scientific guidelines that include safety margins designed to assure the safety of all persons, regardless of age and health. The radio wave exposure guidelines employ a unit of measurement known as the Specific Absorption Rate, or SAR. Tests for SAR are conducted using standardized methods with the phone transmitting at its highest certified power level in all used frequency bands. While there may be differences between the SAR levels of various phone models, they are all designed to meet the relevant guidelines for exposure to radio waves.

SAR data information for residents in countries/regions that have adopted the SAR limit recommended by the International Commission on Non- Ionizing Radiation Protection (ICNIRP), which is 2 W/kg averaged over ten (10) gram of tissue (for example European Union, Japan, Brazil and New Zealand): For body worn operation, this phone has been tested and meets RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 5 mm from the body. Use of other accessories may not ensure compliance with RF exposure guidelines. The highest SAR value for this model phone when tested by Sony for use at the ear is **0.23 W/kg** (10g). In the case where the phone is worn on the body, the highest tested SAR value is **0.70 W/kg** (10g).