## 携帯電話機の比吸収率(SAR)について

この機種【SC-42A】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および電波防護の国際ガイドライン 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)ならびに、これと同等な国際ガイドラインが推奨する電波防護の許容値を遵守するよう設計されています。この国際ガイドラインは世界保健機関(WHO)と協力関係にある国際非電離放射線防護委員会(ICNIRP)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。

国の技術基準および国際ガイドライン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) で定めており、携帯電話機に対する SAR の許容値は 2 W/kg です。この携帯電話機の側頭部における SAR の最大値は **0.840 W/kg** (※2)、身体に装着した場合の SAR の最大値は **1.016 W/kg** (※3)です。個々の製品によって SAR 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。

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 はより小さい値となります。

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 センチ以上離し、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および電波防護の国際ガイドライン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/peh-emf/publications/factsheets/en/

SAR 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.nttdocomo.co.jp/product/sar/

Galaxy のホームページ

https://www.samsung.com/sar/sarMain.do

ightarrow LOCATION 欄で「JAPAN」 ightarrow Phone Model 欄で「SC-42A」を入力 ightarrow 「GO」

- ※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 LTE/FOMA と同時に使用可能な無線機能を含みます。
- ※3 LTE/FOMA と同時に使用可能な無線機能を含みます。

Specific Absorption Rate (SAR) Information of Mobile Phones

This model [SC-42A] mobile phone complies with the Japanese technical regulations and the

international guidelines regarding human exposure to radio waves.

This mobile phone was designed in observance of the Japanese technical regulations regarding exposure to radio

waves (\*1) and the limits of exposure recommended in the international guidelines, which are equivalent to each

other. The international guidelines were set out by the International Commission on Non-Ionizing Radiation

Protection (ICNIRP), which is in collaboration with the World Health Organization (WHO), and the permissible

limits include substantial safety margins designed to assure the safety of all persons, regardless of age and

health conditions.

The technical regulations and the international guidelines set out the limits of exposure to radio waves as the

Specific Absorption Rate, or SAR, which is the value of absorbed energy in any 10 grams of human tissue over a

6-minute period. The SAR limit for mobile phones is 2.0 W/kg.

The highest SAR value for this mobile phone when tested for use near the head is 0.840 W/kg (\*2), and that

when worn on the body is 1.016 W/kg (\*3). There may be slight differences of the SAR values in individual

product, but they all satisfy the limit. The actual value of SAR 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 and the international guidelines.

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/peh-emf/publications/factsheets/en/

Please refer to the websites listed below if you would like more detailed information regarding SAR.

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.nttdocomo.co.jp/english/product/sar/

Galaxy Website:

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## https://www.samsung.com/sar/sarMain.do

- $\rightarrow$  Select "JAPAN" from "LOCATION"  $\rightarrow$  Type "SC-42A" in Phone Model field  $\rightarrow$  "GO"
- \*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 LTE/FOMA.
- \*3 Including other radio systems that can be simultaneously used with LTE/FOMA.

## **FCC RF Exposure Information**

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) adopted by the Federal Communications Commission (FCC).

These limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The radio wave exposure guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 1.6 W/kg.

Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

The highest SAR values under the FCC guidelines for this device model are:

Head: 0.79 W/Kg

Body-worn accessory: 0.58 W/Kg

During use, the actual SAR values for this device are usually well below the values stated above.

This is because, for purposes of system efficiency and to minimize interference on the network, the operating power of your mobile device is automatically decreased when full power is not needed for the call.

The lower the power output of the device, the lower its SAR value.

Body-worn SAR testing has been carried out at a separation distance of 1.5 cm. To meet RF exposure guidelines during body-worn operation, the device should be positioned at least this distance away from the body. Organizations such as the World Health Organization and the US Food and Drug Administration have suggested that if people are concerned and want to reduce their exposure, they could use a hands-free accessory to keep the wireless device away from the head and body during use, or reduce the amount of time spent using the

Note:

device.

The maximum SAR value listed above is the value recorded for the latest version of this handset. Earlier versions may have different measured SAR values, which are detailed in the User Manuals that accompany those handsets.

## **Body-worn operation**

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 1.5 cm from the body.

The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of https://www.fcc.gov/oet/ea/fccid after searching on

FCC ID A3LSMA102UJPN. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Website at <a href="https://www.ctia.org/">https://www.ctia.org/</a>.

**European RF Exposure Information** 

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio

waves (radio frequency electromagnetic fields) recommended by international guidelines. The guidelines were

developed by an independent scientific organization (ICNIRP) and include a substantial safety margin designed

to assure the safety of all persons, regardless of age and health.

The radio wave exposure guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR.

The SAR limit for mobile devices is 2 W/kg.

Tests for SAR are conducted using standard operating positions with the device transmitting at its highest

certified power level in all tested frequency bands.

The highest SAR values under the ICNIRP guidelines for this device model are:

Head SAR: 0.352 W/Kg

Body SAR : **1.515 W/Kg** 

During use, the actual SAR values for this device are usually well below the values stated above.

This is because, for purposes of system efficiency and to minimize interference on the network, the operating

power of your mobile device is automatically decreased when full power is not needed for the call.

The lower the power output of the device, the lower its SAR value.

Body-worn SAR testing has been carried out at a separation distance of 0.5 cm.

To meet RF exposure guidelines during body-worn operation, the device should be positioned at least this

distance away from the body.

Organizations such as the World Health Organization and the US Food and Drug Administration have suggested

that if people are concerned and want to reduce their exposure, they could use a hands-free accessory to keep

the wireless device away from the head and body during use, or reduce the amount of time spent using the

device.

Note:

The maximum SAR value listed above is the value recorded for the latest version of this handset.

Earlier versions may have different measured SAR values, which are detailed in the User Manuals that

accompany those handsets.

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