

Android radiation check

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Table 1 Mid- and small-size panels

	China	Japan	Korea	Taiwan	Global
Oxide TFT	0%	8%	0%	0%	1%
LTPS	0%	49%	8%	8.2%	15%
a-Si	100%	44%	70%	91.5%	77%
AMOLED	0%	0%	22%	0.3%	6%

Courtesy: MIC

Table 2 Comparison between different display technologies

Panel	PPI	Size	Power consumption	Cost	Application
a-Si	Current 250 moving to 300	~ 10"	High	Low	1. Mid / entry Smartphone 2. Mid / entry tablet 3. Notebook 4. Monitor 5. TV
LTPS	Current 300 moving to 400	~ 10"	Low	High	High-end smartphone
Oxide	Current 250 moving to 300	7" - 65"	Medium	Medium	1. High-end tablet 2. High-end TV
AMOLED	Current 250 moving to 300	~8", 55"	Medium	High	1. High-end smartphone 2. High-end TV

Courtesy: MIC

Table 3 OLED backplane technologies

	a-Si	LTPS	Oxide
Mobility	Low	High	Medium
Uniformity	High	Low	Medium
Application size	>100"	~40"	>100"
Mask Quantity	5	5	5
Cost	Low	High	Medium
Application Technology	LCD	LCD	LCD
		OLED	OLED

Courtesy: WitsView

Table 4 OLED penetration rate

	2012	2013	2014	2015
Smartphone	21.87 %	22.56 %	27.22 %	31.83 %
Tablet PC	0.63 %	0.76 %	1.08 %	3.50 %
Notebook PC	0 %	0%	0.11 %	0.38 %
Monitor	0 %	0 %	0 %	0.27 %
TV	0 %	0.29 %	0.66 %	1.15 %

Courtesy: WitsView

cost trend of the tablet market hinders the adoption rate of OLED displays. The penetration rate of tablet PCs is thought to be less than 5 percent by 2015. As for monitors and notebook PC applications, the multimedia and gaming applications or those robust-demand industrial applications. We can see a trend that AMOLED displays are seen in the smallest and largest 3C devices, meaning smartphones and TVs, these three to five years.

A research firm IHS iSuppli indicated that the AMOLED TV display is seen as an emerging application though the shipments will be limited in three years due to high prices caused by manufacturing challenges and expensive materials. The statistics from IHS iSuppli shows a prominent growth in the TV display sector since 2012 to 2015 in both shipment value and volume. The shipment

value is less than US\$200 million in 2013 still, and the figure is forecasted to be close to US\$750 million in 2015. The shipment volume is anticipated to be less than 500,000 units in 2013, and the number is predicted to surpass 2 million units in 2015.

Dual technological solutions for AMOLED

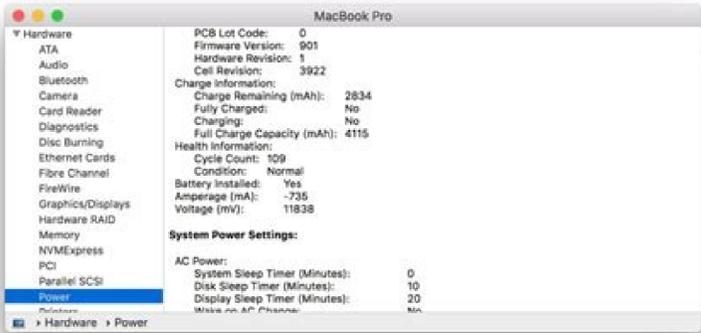
In Taiwan, there are two AMOLED choices, including RGB and White OLED (WOLED) with color filter designs. The high power consumption of color filter can be a major disadvantage for WOLED besides complex manufacturing process. However, the RGB technology is controlled by SDC in terms of patents and market share. Hence, it may be an easier way to develop WOLED technology.



0.17 $\mu\text{Sv/h}$ H+ 49% 16:43

SAR Values

SAR < 1.6 Watt/Kg, averaged over a mass of 1 gram of human tissue



When we read mobile phones with low levels of radiation and energy efficiency, I discovered a great way to measure the level of radiation that spread by a mobile phone, which allowed me to write this article. However, let's explain some facts before starting. The content table varies depending on the model of the radiation level of all mobile phones. It has not been proven that radiation of mobile phones causes cancer or any disease. If you are looking for a framework to examine your mobile phones on health, a good place to start research is CDC SSS about the radiation of mobile phones. The FDA also store information about a mobile phone and health, which can be useful. Let's leave the health results to scientists. Instead, this article offers readers a simple test to see how much radiation it spreads. SAR - SAR is a measure of a radio frequency that the body absorbs and the amount of energy absorbed by the body when using the phone. . The phones vary significantly in the SAR coefficient, but in fact it is very easy to find this article the SAR factor of the phone you are now reading. To find SAR for your iPhone: Open the keyboard as if to make a connection. Select# 07# and press Connect. This will go to some of the phone settings. Web site with device information. You can access this information on other phones using the same code. Some can immediately transfer you to the phone settings when opening SAR. You can also find the settings, general, legal and regulatory provisions, RF exhibition where you will find this link to the same website on your iPhone. I was shocked when I saw my iPhone 7's RF exhibition in 1.19, which is almost ten times more than the weakest spreader! iPhones also have a warning about the test at a distance of 5 mm from the head. Samsung phones usually have a low radiation. Although there are major differences between mobile phones, something remains unchanged: Samsung phones often have a very low palace coefficient. Perhaps this is that Samsung released a few phones with a new type of antenna in 2006. Until 2003, the FCC in the United States applied a rule defining antennas, that is, in all directions. After 2003, Samsung (and other companies) can work differently, so it emits most RF radiation from the latest Samsung antenna phone. This is the 2019 investigationWhile researching low-radiation and energy-saving mobile phones, I came across a great trick to determine the radiation intensity of a mobile phone. But before we get started, let's establish some facts: cell phones with content, the spread of radiation levels with modeling of cell phones, not proven to be carcinogenic or if you are looking for an underlying condition, the health effects of cell phones, a good place to start your search for phones on the CDC's cellphone radiation website on FAS. The FDA also maintains cell phone and health information that you may find useful. We leave the health effects to the scientists. Instead, this article provides readers with a simple test to see how much radiation each phone model emits. . Phones vary wildly by SAR, but it's actually very easy to find the SAR for the phone you're reading about. *#07# To call and call to direct you to some of your feature settings on RF ExposuresRoll link to the information web page for your device and also to that information. Other phones with the same code. Some may take you directly to your phone's settings. You can also find it on your iPhone under Settings, General, Legal & Regulatory, RF Exposure on the same site About ten times higher than the lowest scatterers! And iPhones also have a test alarm to test 5mm from your sanity. Samsung phones are generally low, but the wide variation between phones is consistent - something is consistent: Samsung tends to have extremely low levels of SARs. Probably in 2006, Samsung is a new type of antenna. Prior to 2003, the US had an FCC rule that required omnidirectional antennas. After 2003, Samsung (and other companies) were free to do things differently, so Samsung's new antenna directs most of the RF away from the phone.The Chicago Tribune found that both the iPhone 7 and several Samsung models significantly exceeded FCC regulations for SAR, prompting them to reconsider both their FCCs and Samsung. In short, it is not easy to find out which phones have the lowest radiation. One way to find at least some kind of conviction is to look at the Federal Office of Radiation Protection (BFS), which keeps an extensive database of smartphones and the amount of radiation they emit when a call is recorded in the ear. You can also check out the German Blue Angel eco label, which only certifies phones with SAR below 0.60 watts per kilogram (well below FCC 1.6 watts/kg). How to reduce cell phone radiation CDC is an excellent site on the subject. The CDC recognizes that while more research is needed, there is no scientific evidence that does not clearly link cell phones to diseases such as cancer. However, if you are concerned about radiation exposure, there are several ways to reduce your phone's exposure to radiation with a low specific absorption rate (SAR). While the scientific evidence is not clear, some of us may want to limit all sources of radiation exposure from all sources. Using a mobile phone with a lower SAR value is one of the strategies for less radiation in our daily life. If you're interested in this topic and want to do more research, be sure to check out our list of the safest microwave ovens. The smartphone is so much in our daily life that no one can imagine a life without it. Excessive smartphone use can cause health problems, but even less use of a smartphone with a Bad SAR is the most dangerous. Here, SAR stands for "Specific Absorption Rate", which is the amount of RF energy the body absorbs when using a mobile phone. The Federal Communications Commission (FCC) has set reliable radio frequency (RF) power limits for energy at 1.6 watts per kilogram (1.6 W/kg). Any smartphone at or below this SAR level is safe to use. You can check the radiation level for SAR.By sending USD*# 07#, it is no problem if the results indicate that it will be less than 1.6 watts per kilogram (1.6 W/kg), otherwise it is recommended that you change your smartphone immediately. Here are some popular smartphones on the market. iPhone 6: >>- 1.59 W/kg LG G3: >> 0.99 W/kg LG G2: >> 1.44 W/kg Samsung Galaxy Note 2: >> 0.42 W/kg Samsung Galaxy Note 3: >> 1.07 W/kg/kg Samsung Galaxy Note 4: >> 1.20 W/kg Samsung Galaxy S5: >> 1.26 W/kg HTC One (M8): >> 1.29 W/ Interesting kg is only 0, 01 of the Sar threshold of the iPhone 6. For more information, please click on the link below: a "This can include post-posting links. If you want to learn more, please contact my information. Recently I received an e-mail from a reader to ask which application was the best application to detect and measure EMF radiation. To be honest, I was a little worried about the opposite question. Why do you measure EMF radiation with EMF radiation? However, after a small research, I found that there were some important situations that are worth measuring or detecting electromagnetic fields with a smartphone or iPhone. In this article, I want to start talking about why you can ask for an EMF meter. Then I would like to talk about how it could be a mobile phone before EMF applications and detectors. I would also like to talk about why this may not be a good idea and why it is a better choice for almost all situations to buy a real EMF meter. Finally, if you decide to use your phone to measure the EMF radiation, we will outline the best 5 applications. We immediately enter merit. Why do you like EMF detection application? First, we answer the biggest question, why do you like an EMF meter? If you have read almost all of the contributions in the EMF Academy, you have heard of frequent advice on EMF measures, and I promise that there is a good reason for this. A good EMF meter, such as Trifield TF2 (read my reviews) measures three types of EMF radiation, electric field, magnetic field and radio frequency. In the meantime, if you don't yet know the dangers and damages caused by a long exposure to EMF radiation, I recommend you to look at the EMF Academy, but for the purposes of this article, it is what is real and the real danger you should be, worried about. EMF meter not only helps you understandTypes of emergency radiation in your home as well as the amount they emit. Not only that, but even without the EMF meter, it is almost impossible to determine whether you have taken the steps you have taken to reduce EMF radiation in your life really work. For example, I wrote an amazing guide to reducing the radiation level throughout the house. However, if you do not have an EMF meter, it is difficult to understand that many of my decisions will really benefit your home. In addition, there are several fairly good products on the market that help in electromagnetic radiation (there are many false products with caution). For example, Defendershield (see my product review) produces fantastic covers with EMP protection for mobile phones, tablets and laptops. Or, if you want to see all the products you use and recommend them to my friends and family, you can visit my site that recommended. With the EMF meter, you can really see the difference in the case. Just open the box, call the phone, check out the EMF meter readings, then close the housing and see the difference. I will not change all the methods of using a good EMF meter, but it can be said that the options are almost unlimited. Walking around the house and office is also very funny (and a bit terrible) and the opportunity to better understand how many different devices. The applications I will tell you in the best of the top 5 applications to help you read the EMP radiation in a given part of the EMF, but will in no way replace the real EMF meter, such as my dear trifield TF2. In addition, if you are worried about electromagnetic radiation from things like 5G, mobile phones, routers or anything else, I would like to quickly indicate that there is an electronic book that is definitely not ". I didn't write, but this is one of the best resources available. How does the EMF measurement applications work? First of all, to explain, EMP users' applications do their job because, approaching something like Marshrutizer, a mobile phone and even a laptop. However, in my experience they are not very accurate. For some reasons, first of all, used mobile phone is already emitting quite large amounts of electromagnetic radiation, so in itselfGreatest reading. The way apps get spikes in meter readings is because since the phone communicates using a radio frequency, the app can use this to know when it's receiving other radio frequencies that are foreign to it to communicate with and read from the display. Some phones and apps can also use the phone's built-in magnetometry to take readings of magnetic field emissions. However, this magnetometry often accumulates in the Earth's magnetic field, as well as in phones, so the readings will no longer be accurate. I also want to say that if you care about the danger of electromagnetic radiation, then applications for measuring this radiation are simply stupid. Deploying excessive radiation just to count radiation is completely counter-intuitive and I would never recommend anyone to use any of these EMI radiation measurement apps if they can just buy an EMI meter. One of the few situations where I think an app is worth getting is when you've bought some kind of protective case, phone or tablet and want to know if it works. If you don't have an EMF meter, the app should at least show the difference in readings with the box on and off if the product actually works. This is a scenario where it would make sense, but then again, a real EMF meter will always be the absolute best choice. Okay, now that we've figured out that while the EMI detection and EMF meter apps can detect some EMF radiation, I don't recommend them except in very specific situations. It will always be better to buy an EMF meter. Let's take a look at the available EMF radiation detection applications. Let's start by talking about one of the most popular EMI detection apps on the Apple App Store, EMI Scanner. I downloaded this app and have been using it for a while and have been amazed that it gives readings when needed. However, the readings did not match those of my Trifield TF2, despite the photo you see on the right. Anyway, I was surprised that, of course, I even read that there is radio frequency radiation in the area. I also admit that after testing several different devices, the readings were pretty close to what my EMF meter showed. Overall I found the app very easy to use and really fun. The download is free, but there are several premium features.pay. Some other features available in the app: it allows you to save measurements of various readings and leave up to 100 records to refer back to. This feature is useful when trying to measure over time. If values above the specified value are detected, an acoustic signal can be set. The ability to send measurements by email is probably the best EMI detection app in my opinion, at least in the App Store. For more information or to download the app, click here. 2. The ultimate EMF detector looks at the best app on the Android market in the ultimate EMF detector. It's a pretty simple app with a beautiful interface that's easy to use and understand. Like many of the apps listed here, they use a magnetic sensor (same as a phone's compass) to estimate the magnetic field surprisingly accurately. Just be careful if your phone doesn't have a magnetic sensor (I wonder because almost all modern smartphones do) it won't show any readings. So if you download the app (don't worry, it's free) and the screen is set to 0, the phone simply won't be able to use the app. Now let's talk about what you get in the free version and what you get if you want to get the Pro version of this app. Free version: Reading the magnetic field in the seat magazine data, patties and Milligas, which can then be sent via a text file to any use button containing the screen when using a cool EMF display that has both digital "needles" and a digital output. Pro version: Everything in the free version without ads, sound notifications of high or sudden readings of various backgrounds and "clothes" app, if you want to know more about the app or download it from the Google Play Store. Click here. 3. EMF Analyzer I don't have much to say about this app, it's free but pretty simple. The app appears to be a little more aimed at ghost hunters and paranormal scientists, but like the other apps, it uses a three-pronged magnetic sensor on the phone to interpret the readings displayed on the MicroteSlach. Some of its features include: real-time electromagnetic field readers to fill the power strap listed in the image audio statement calibration, which helps prevent background noise from a very simple user.To learn more about the app or download it for yourself, click here. 4. Entity Sensor Pro - EMF Detector - This is another application of Gauss's meter, ie detects only magnetic field radiation. This application is also primarily offered to detect "spirits, ghosts and EV". It is also primarily sold for recreational purposes, so it states that the data may not be accurate. Some of the features that make this application quite good for ghost hunters are: EVP (Electronic Voice Phenomenon) automatically records, when you make measurements, both EMF and EVP data around you. This is another Freemium application, which means it is free to download, but some of the paid versions are protected. Some of the paid features include: Record Start that automatically starts and stops EMF and EVPMedia Enhancement, which adds camera functions, flashlight, higher audio recording quality and EVP fast playback. Overall entertaining program, but certainly not something I would recommend if you are worried about the dangers of EMP radiation. To learn more about this app or download it for yourself, click here. Well, maybe you are thinking two things at the moment: wait, it was only 4 applications, this article promised 5 wait a minute, all those applications are Gaussian meters, which means only magnetic field radiation. Wireless Internet? Friends, let's take care of both of your questions. There is one application on the market that I know and which really measures EMF emissions from WiFi, such as home routers, wireless phones, mobile phones, etc. Let's talk about the 5th application. 5. The Best WiFi Radiation - WiFi Exposure Meter first video that fantastically explains how the application works. So now that you understand a little better how the application works, let's talk more about it. First, developers of the application saw what we saw today - a gap on the market for a reliable way to measure WiFi exposure in your home using a smartphone. The application is easy to use and has some interesting premium features. In the free version you can do almost everything you saw in the video. The biggest difference is that the paid version allows calibrated and more accurate measurements. The free version also has slightly less display options. But don't be mistaken, the free version will still give you a lot of valuable thingsAnd definitely worth downloading and trying. What is the price of the paid version? As of this writing, it is slightly more expensive than \$3. According to the developer, we wanted to reliably estimate Wi-Fi radiation for the price of a cup of coffee. The program uses volts per meter for user viewing. In the background, the program actually measures DBM (decibel/Milliwatt), but then converts it to electric field measurements. A few things to keep in mind: This app is designed to measure 2.4GHz Wi-Fi protocols and 5.2GHz, so the radiation from your local cell tower isn't just reading from your home router and others. The main purpose of the program is to help you create a home router to reduce the effect, which is a noble business, but I recommend that you read my full article on Wi-Emissions. FI is for more important advice on how to limit the effect. Click here to download the free version of the app. Latest Ideas on Best EMP Finding Practice As you can probably understand after reading this article, I don't think these programs should almost ever be loaded with the average person, even though these programs serve a specific purpose. First of all, most of these programs only measure magnetic fields, but do not explain this to the user. So, someone can install one of these programs and try to measure something that doesn't emit a magnetic field, but emits radio waves, and think it's safe because the program doesn't measure it. Moreover, these applications are often unjustified because they are probably the greatest exposure to electromagnetic radiation. I highly recommend anyone reading this article who is concerned about the dangers of emergency radiation to simply buy a real EMF meter like the Trifield TF2™ (read my review). With that number, you can get a decent reading from any EMP emissions. It is also easy to use, has high information and exposes you to greater EMF. Source:

