

**Office of Engineering and Technology**[FCC](#) > [FCC E-filing](#) > [Inquiry System Home Page](#) > Inquiry Confirmation[FCC Site Map](#)

Inquiry Tracking Number: **225100**
Date of Original Submission: **07/31/2014**
Date of Submission: **07/31/2014**

[Inquiry Details on 07/31/2014:](#)

Inquiry:

Our Client Carestream Health Inc. has a certified transmitter under FCC ID: U72DRX1 and FCC ID: U72DRX1-4

They voluntarily performed SAR testing on their UNII band transmitter with an output power of 15.9 dBm and an antenna gain of 0 dBi. The worst case SAR measurement was 0.791 W/kg at 5300 MHz.

The wish to change the transmitter to an 802.11 a,b,g,n and the antenna they have chosen have antenna gains of -5.5 dBi at 2.4 GHz and -0.8 at 5 GHz.

The device in which they use this transmitter is an X-Ray detector, this detector is placed directly on the patient where the antenna could be within 20 cm of the body.

Source Based time averaging: The operator initiates an X-ray image, the radio turns on for approx 5 seconds to transfer image to AP. The maximum amount of time between images would be 20 seconds and is normally 60 seconds depending on the repositioning of the plate. Typically a maximum of 3 exposures are taken per session.

Therefore; a person would be subjected to a maximum of 15 seconds of transmission time over a period of 75 seconds at the most extreme rate, a normal rate would be 15 seconds over a period of 180 seconds.

The questions are...

Will this new transmitter require SAR testing?

Is there a maximum power output of the transmitter where SAR testing would not be required?

Please use the Submit Inquiry link at www.fcc.gov/labhelp to send any comments or suggestions for this site

Federal Communications
Commission
445 12th Street, SW
Washington, DC 20554
[More FCC Contact Information...](#)

Phone: 888-CALL-FCC (225-5322)
TTY: 888-TELL-FCC (835-5322)
Fax: 202-418-0232
E-mail: fccinfo@fcc.gov

- [Privacy Policy](#)
- [Web Policies & Notices](#)
- [Customer Service Standards](#)
- [Freedom of Information Act](#)