

RF Exposure Evaluation Report

Report Number : FA942402
Equipment : DTP-600W
Trade Name : DTP-600W
Model Name : DTP-600W

FCC ID : P4M-DTP600W Filing Type : Certification Issued Date of Report : May 11, 2009

Applicant : AnyDATA Corporation

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Report Version: Rev. 01

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1. Introduction

The report has been prepared on behalf of **AnyDATA Corporation DTP-600W** to show compliance with the

RF Exposure.

Requirements

Three different categories of transmitters are defined by the FCC in OET Bulletin 65. These categories are

fixed installation, mobile and portable and are defined as follows:

Fixed installation:

Fixed location means that the device, including its antenna, is physically secured at a permanent location and

is not able to be easily moved to another location. Additionally, distance to humans form the antenna is

maintained to at least 2 meters.

■ Mobile Devices:

A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be

generally used in such a way that a separation distance of at least 20 centimeters is normally maintained

between the transmitters's radiating structures and the body of the user or nearby persons. Transmitters

designed to be used by consumers or workers that can be easily re-located are considered mobile devices if

they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF

compliance are found in 47 CFR 2.1091.

■ Portable Devices:

A portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of

the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in

Section 2.1093 of the FCC's Rules (47 CFR 2.1093)

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For this test report the AnyDATA Corporation DTP-600W is being done as a mobile device and the MPE is

evaluated at the 20 cm test distance.

The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise

control over his or her exposure. The two categories defined are Occupational/Controlled Exposure and

General Population/Uncontrolled Exposure. These two categories are defined as follows:

Occupational/controlled Exposure:

In general, occupational/controlled exposure limits are applicable to situation in which persons are exposed

as a consequence of their employment, who have been made fully aware of the potential for exposure.

Awareness of the potential for RF exposure in a workplace or similar environment can be provided through

specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to

establish such awareness by providing prominent information on the risk of potential exposure and

instructions on methods to minimize such exposure risks.

General Population/Uncontrolled Exposure:

The general population / uncontrolled exposure limits are applicable to situations in which the general public

may be exposed or in which persons who are exposed as a consequence of their employment may not be

made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the

general public would come under this category when exposure is not employment-related; for example, in the

case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power

consumer devices such as cellular telephones are not considered sufficient to allow the device to be

considered under the occupational/controlled category and the general population/uncontrolled exposure

limits apply to these devices.

Since there are no warnings or training associated with this unit and it can be used by anyone, DTP-600W is

 $evaluated \ to \ the \ General \ Population \ / \ Uncontrolled \ Exposure \ limits.$

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2. Radio Frequency Radiation Exposure Evaluation

According to 1.1310 of the FCC rules, the power density limit for General Population/Uncontrolled Exposure is f/1500 mW/cm² for Cellular band and 1.0 mW/cm² for PCS band. As this is a mobile application the MPE shall be calculated at 20 cm to show compliance with the power density limit. The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

For this device, the calculation is as follows:

GSM (GPRS Multi-slots Class 12):

Function	EIRP (dBm)	EIRP, mW (numeric)	Calculated RF Exposure at d= 20 (cm)	Limit (mW/cm²)	Result
Cellular Band	29.03	799.83	0.08	0.57	Pass
PCS Band	28.77	753.36	0.07	1.00	Pass

Note: The EIRP, 29.03 dBm, for Cellular band is got from the ERP: 26.88 dBm with the factor, EIRP = ERP + 2.15 dBi.

WCDMA:

Function	EIRP (dBm)	EIRP, mW (numeric)	Calculated RF Exposure at d= 20 (cm)	Limit (mW/cm²)	Result
Cellular Band	19.33	85.70	0.02	0.57	Pass
PCS Band	22.52	178.65	0.04	1.00	Pass

Note: The EIRP, 19.33 dBm, for Cellular band is got from the ERP: 17.18 dBm with the factor, EIRP = ERP + 2.15 dBi.

Based on the above calculation at 20 cm the DTP-600W is below the Power Density limit.

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