

12. Radio Frequency Exposure

12.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1091)

12.2 EUT Specification

Frequency band						
(Operating)						
Davisa satagami	☐ Portable (<20cm separation)					
Device category						
Exposure	Occupational/Controlled exposure					
classification	☐ General Population/Uncontrolled exposure					
Antenna diversity	Single antenna					
	☐ Multiple antennas					
	☐ Tx diversity					
	Rx diversity					
	Tx/Rx diversity					
Evaluation applied	SAR Evaluation					
	□ N/A					
Remark:						
1 The maximum con	dusted output nouser is 7.06dPm (6.252 mM/) at 2.400M/ Iz (with 2.00dPi					
	ducted output power is <u>7.96dBm (6.252 mW)</u> at <u>2480MHz</u> (with <u>3.00dBi</u>					
<u>antenna gain</u> .)	subject to restine DE evaluation. MDE estimate is used to institute					
DTS device is not s compliance.	subject to routine RF evaluation; MPE estimate is used to justify the					
3. For mobile or fixed	location transmitters, no SAR consideration applied. The maximum					
power density is 1.	0 mW/cm ² even if the calculation indicates that the power density					
would be larger.						

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12.3 Test Results

No non-compliance noted.

12.4 Calculation

Given
$$E = \frac{\sqrt{30 \times P \times G}}{d}$$
 & $S = \frac{E^2}{3770}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and $d(cm) = d(m) / 100$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

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12.5 Maximum Permissible Exposure

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm ²)
2402-2480	7.96	8.46	3	20	0.003	1

----THE END OF REPORT-----

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