



166 South Carter, Genoa City, WI 53128

Company: Roche Diagnostics
Model Tested: 481
DLS Project: 5792

RF Exposure Compliance

Company: Roche Diagnostics Operations, Inc.

Model: Model 481 tested to represent Aviva Models 465, 481 & 482, and Performa Models 467 & 468

Formal Name: Accu-Chek Aviva Insight (tested) and Accu-Chek Performa Insight

Rule Part: CFR 47 Part 1.1307(b)
CFR 47 Part 2.1093

Test Procedure: FCC 447498 10 D01 General RF Exposure Guidance v05
4.3. General SAR test reduction and exclusion guidance
4.3.1. Standalone SAR test exclusion considerations

Limits: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison.

When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Output Power: This is a portable device. The maximum peak power measured is 9.21 dBm conducted. The antenna gain is 3.8 dBi.
9.21 dBm = 8.3mW.

Exclusion threshold: $[8 \text{ mW} / 5 \text{ mm}] \times [\sqrt{2.480 \text{ GHz}}] = 2.5$

Results: **2.5 is \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.**
SAR measurement is not necessary.