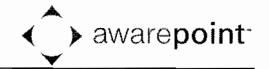Awarepoint Corporation
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6/07/06
TÜV America, Inc. TCB
10040 Mesa Rim Road
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Re: SAR Calculation for Awarepoint model R1
Applicant: AwarePoint Corporation

The following is the SAR calculation for the Awarepoint model R1 using the system's maximum RF emission. The calculation is based on FCC47CFR Part 2 and OET 65.

Per OET 65:
Maximum Permissible Exposure is Freq. (in MHz)/1500 = MPE mW/cm^2
2400 MHz/1500 = 1.6 mW/ cm^2

0dBm Transmitter Power (Max)
3dBi Antenna Gain (Max)
0dBm + 0dBi = +3dBm EIRP
+3dBm EIRP = 2mW EIRP
1.6 mW/cm^2 = 2 mW/$(4^*\pi^*r^2)$
$r = \sqrt{(2mW/(4^*\pi^*1.6 \text{ mW/cm}^2))}$
r = 0.315 cm or 3.15 mm

Since the distance from the surface of the R1 enclosure to the antenna is greater than 3.15mm, it is impossible to violate the SAR limit.

Sincerely,

Derek Smith
Director of Technology
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