Date of Issue: AUG. 31, 2015 Report No. : WSCF1507031

## **Radio Frequency Exposure**

## **EUT INFORMATION**

EUT	Evoluent VerticalMouse C Right Wireless
Frequency band (Operating)	2.405~2.475 GHz
Antenna diversity	<ul> <li>Single antenna</li> <li>Multiple antennas</li> <li>☐ Tx diversity</li> <li>☐ Rx diversity</li> <li>∑ Tx/Rx diversity</li> </ul>
Field strength	80.20 dBuV/m @3m
Antenna gain (Max)	-8 dBi

## TEST RESULT

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

The min. test separation distance (mm) is 5 mm,

eirp = 
$$pt*gt = (E*d)^2/30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, ---  $10^{((dBuV/m)/20)}/10^6$ 

d = measurement distance in meters (m) --- 3m

So pt =  $(E^*d)^2/(30^*gt)$ 

Ant. numeric gain, Ant. = -8 dBi = 0.16 So pt =  $\{[10^{(80.20/20)}/10^{6*}3]^2/(30^*0.16)\}^*1000 = 0.0002 \text{ mW}$ So ( 0.0002 mW/5 mm)\*  $\sqrt{2.475} \text{ GHz} = \textbf{0.001} < 3.0 \text{ for 1-g SAR}$ 

Therefore, standalone SAR measurements are not required for both head and body.

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