

Company: NetScout Systems Inc.

Test of: SENSOR4 Product Family  
To: FCC CFR 47 Part 15 Subpart E 15.407

Report No.: NTCT77-U4 MPE Rev A

## MPE REPORT



# MPE TEST REPORT



Test of: NetScout Systems Inc. SENSOR4 Product Family  
to

To: FCC CFR 47 Part 15 Subpart E 15.407

Test Report Serial No.: NTCT77-U4 MPE Rev A

This report supersedes: None

Applicant: NetScout Systems Inc.  
178 E. Tasman Drive  
San Jose, CA. 95134  
USA

Product Function: Wireless LAN Client

Issue Date: 15<sup>th</sup> November 2016

## **This Test Report is Issued Under the Authority of:**

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# 1. MAXIMUM PERMISSABLE EXPOSURE

## Calculations for Maximum Permissible Exposure Levels

Power Density =  $P_d$  (mW/cm<sup>2</sup>) =  $EIRP / (4 \cdot \pi \cdot d^2)$

$EIRP = P \cdot G$

$P$  = Peak output power (mW)

$G$  = Antenna numeric gain (numeric)

$d$  = Separation distance (cm)

Numeric Gain =  $10^{(G \text{ (dBi)} / 10)}$

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm<sup>2</sup>

The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm <sup>2</sup> ) @ 20cm	Minimum Separation Distance (cm)
2400.0 - 2483.5	2	1.58	24.14	259.66	0.08	20.00
5150 – 5250	4.8	3.02	16.92	49.2	0.03	20.00
5250 – 5350	4.8	3.02	23.14	206.1	0.12	20.00
5470 - 5725	4.8	3.02	22.72	187.1	0.11	20.00
5725 - 5850	4.8	3.02	22.37	172.6	0.12	20.00

Assessment for simultaneous operation:

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm <sup>2</sup> ) @ 20cm	Minimum Separation Distance (cm)
5250 – 5350	4.8	3.02	23.14	206.1	0.12	20.00
2400.0 - 2483.5	2	1.58	3.02	259.66	0.08	20.00
<b>EIRP TOTAL (mW/EIRP) : 625.47</b>					<b>0.2</b>	<b>20.00</b>

**Note:** for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

## Specification

### Maximum Permissible Exposure Limits

**FCC §1.1310** Limit = 1mW / cm<sup>2</sup> from 1.310 Table 1



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