

Company: Hewlett Packard Enterprise

MPE Evaluation of: APINH303

To: FCC CFR 47 Chapter 1 Subpart §1.1310

Report No.: HWP85-MPE Non DFS Bands Rev A

MPE TEST REPORT



MPE TEST REPORT



MPE Evaluation of: Hewlett Packard Enterprise APINH303
to

To: FCC CFR 47 Chapter 1 Subpart §1.1310

Test Report Serial No.: HWPD85-MPE Non DFS Bands Rev A

This report supersedes: NONE

Applicant: Hewlett Packard Enterprise
8000 Foothills Blvd
Roseville, California 95747
USA

Product Function: 802.11 a/b/g/n/ac Wireless Access
Point

Issue Date: 18th 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

$$\text{Power Density} = P_d (\text{mW/cm}^2) = \text{EIRP} / (4 \cdot \pi \cdot d^2)$$

$$\text{EIRP} = P \cdot G$$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

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

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 Safe Distance @ 1 mW/cm^2	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5150.0 - 5250.0	4.60	2.88	22.65	184.08	6.50	0.11	20.00
5725.0 - 5850.0	4.60	2.88	21.38	137.37	5.61	0.08	20.00
2400.0 - 2483.5	3.20	2.09	19.88	97.22	4.02	0.04	20.00

Assessment for simultaneous operation:

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1 mW/cm^2	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5150.0 - 5250.0	4.60	2.88	22.65	184.08	6.50	0.11	20.00
5725.0 - 5850.0	4.60	2.88	21.38	137.37	5.61	0.08	20.00
EIRP TOTAL (mW/EIRP) : 945.56					8.67	0.19	20.00

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



Title: Hewlett Packard Enterprise APINH303
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Page: 4 of 5

Specification
Maximum Permissible Exposure Limits

FCC §1.1310 Limit = $1\text{mW} / \text{cm}^2$ from 1.310 Table 1

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