



MPE/RF EXPOSURE TEST REPORT

FCC CFR 47 Part 1.1310

REPORT No.: HPEN141-U12_MPE Rev A

Company: Hewlett Packard Enterprise

Model No.: ASIN0301

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To: FCC CFR 47 Part 1.1310

Test Report Serial No.: HPEN141-U12_MPE Rev A

This report supersedes: NONE

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1. MAXIMUM PERMISSIBLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (mW/cm²) = $EIRP / (4 * \pi * d^2)$

$EIRP = P * G$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

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 ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm ²) @ Safe Distance
5150.0 - 5250.0	4.90	3.09	20.55	134.00	0.08	1.00	5.7	1.00
5470.0 - 5725.0	4.90	3.09	21.19	131.77	0.08	1.00	5.7	1.00
5725.0 - 5850.0	4.90	3.09	21.18	131.26	0.08	1.00	5.8	1.00
5250.0 - 5350.0	4.90	3.09	20.72	118.03	0.07	1.00	4.8	1.00
2400.0 - 2483.5 (Wi-Fi)	2.00	1.58	21.41	138.21	0.04	1.00	4.2	1.00
2400.0 - 2483.5 (BLE)	1.80	1.51	3.06	2.00	0.001	1.00	0.5	1.00

Assessment for simultaneous operation:

Only the BLE and highest Power Density used for simultaneous operation.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density Limit (mW/cm ²) E_{ref}	Power Density (mW/cm ²)	E_i/E_{ref}
2400.0 - 2483.5 (BLE)	1.80	1.51	3.06	2.00	1.00	0.001	0.001
5470.0 - 5725.0	4.90	3.09	21.19	131.50	1.00	0.08	0.08
Summation of Ratio:							0.081

The Total Evaluation was calculated using the formula:

$$\sum_{i=1}^n \frac{E_i}{E_{ref}} \leq 1$$

Where

E_i : calculated E-field Strength for transmitter

E_{ref} : E-field strength related limit

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

The Limit is defined in Table 1 of FCC §1.1310.



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