

Page: 1 of 6

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 Standard Applicable

According to §1.1307(b)(1) and, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to §1.1310 and §2.1093 RF exposure is calculated.

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC KDB 680106

1.2 Limits for Maximum Permissive Exposure (MPF)

Frequency Electric Field Magnetic Field Power Density Averaging Time					
Frequency Range			•	Averaging Time	
_	Strengtn(E) (V/m)	Strength(H) (A/m)	(mW/cm2)	(minute)	
(MHz)					
	Limits for Oc	cupational / Controll	ed Exposure	Γ	
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/f	4.89/f	*(900/f ²)	6	
30-300	61.4	0.163	1.0	6	
300-1500	/	/	F/300	6	
1500-15000	/	/	5	6	
Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time	
_			_		
Range	Strength(E) (V/m)	Strength(H) (A/m)	(mW/cm²)	(minute)	
Range (MHz)	Strength(E) (V/m)	Strength(H) (A/m)	(mW/cm ²)	(minute)	
_		Strength(H) (A/m) al Population/Uncon		(minute)	
_				(minute)	
(MHz)	Limits for General	al Population/Uncon	trolled Exposure	, ,	
(MHz) 0.3-1.34	Limits for Genera	al Population/Uncon	trolled Exposure *(100)	30	
(MHz) 0.3-1.34 1.34-30	Limits for General 614 824/f	al Population/Uncon 1.63 2.19/f	trolled Exposure *(100) *(180/f²)	30 30	

F = frequency in MHz

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^{* =} Plane-wave equipment power density



Page: 2 of 6

Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model /Type No.	Series No.	Data Cable	Power Cord
1.	NA					

The Worst Charging Condition:

The troibt changing community				
Ancillary Equipment	Charging Condition	Verdict		
Load	Full Loading	PASS		
Load	99% Loading	PASS		
Load	50% Loading	PASS		
Load	1% Loading	PASS		

Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current.

Measurement Procedure: 1.5

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm and 20 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm and 20 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310; 614 V/m and 1.63 A/m.

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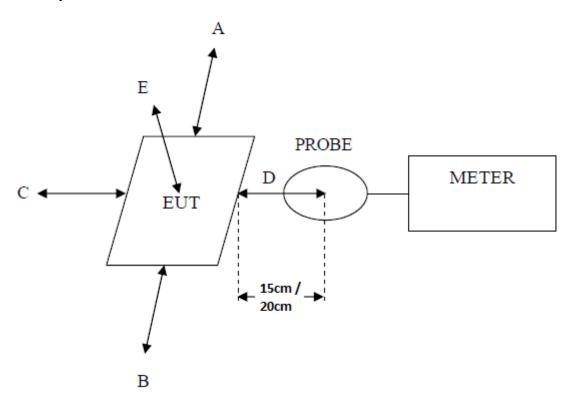


Page: 3 of 6

Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EM RADIATION	Wandel&	EMR-30	M-0006	10/14/2017	10/13/2018
METER	Goltermann	EIVIN-30	101-0000	10/14/2017	10/13/2016

1.7 Test Set-up:



Maximum Permissible Exposure (MPE) Evaluation:

Full Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	15 cm	3.37	0.029	
Left	15 cm	3.41	0.031	
Right	15 cm	3.43	0.035	
Тор	15 cm	3.46	0.04	
Bottom	15 cm	3.45	0.038	
Limit		614	1.63	

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Page: 4 of 6

99% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	15 cm	3.51	0.034	
Left	15 cm	3.24	0.028	
Right	15 cm	3.34	0.037	
Тор	15 cm	3.29	0.031	
Bottom	15 cm	3.28	0.027	
Limit		614	1.63	

50% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	15 cm	3.46	0.026	
Left	15 cm	3.31	0.035	
Right	15 cm	3.26	0.028	
Тор	15 cm	3.35	0.027	
Bottom	15 cm	3.26	0.031	
Limit		614	1.63	

1% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	15 cm	3.41	0.033	
Left	15 cm	3.34	0.03	
Right	15 cm	3.3	0.037	
Тор	15 cm	3.36	0.029	
Bottom	15 cm	3.28	0.034	
Limit		614	1.63	

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Page: 5 of 6

Full Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	20 cm	3.24	0.016	
Left	20 cm	3.28	0.019	
Right	20 cm	3.33	0.015	
Тор	20 cm	3.41	0.011	
Bottom	20 cm	3.37	0.014	
Limit		614	1.63	

99% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	20 cm	3.37	0.013	
Left	20 cm	3.41	0.01	
Right	20 cm	3.19	0.008	
Тор	20 cm	3.24	0.011	
Bottom	20 cm	3.31	0.016	
Limit		614	1.63	

50% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	20 cm	3.42	0.009	
Left	20 cm	3.22	0.012	
Right	20 cm	3.29	0.015	
Тор	20 cm	3.18	0.01	
Bottom	20 cm	3.25	0.008	
Limit		614	1.63	

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Page: 6 of 6

1% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	E-field	H-field	
Front	20 cm	3.34	0.006	
Left	20 cm	3.15	0.012	
Right	20 cm	3.23	0.015	
Тор	20 cm	3.29	0.012	
Bottom	20 cm	3.34	0.007	
Limit		614	1.63	

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