

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)

	Limits for Maximum Permissive Exposure (MPE)				
Frequency Range	Electric Field	Magnetic Field	Power Density	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:

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:

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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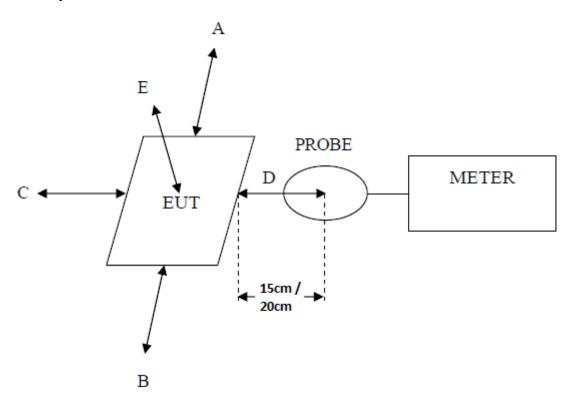


Page: 3 of 6

Measurement Equipment Used:

				1	1
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EM RADIATION	Wandel&	EMR-30	M-0006	10/14/2017	10/13/2018
METER	Goltermann	LIVIIX-30	101-0000	10/14/2017	10/13/2010

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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所形分列就可能被害的不能到過減之体态更具。同时起体态度体验到分类。本来要不是可含面影中了,不可能的模型。
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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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