

RF EXPOSURE EVULATION**1.1 Limit**

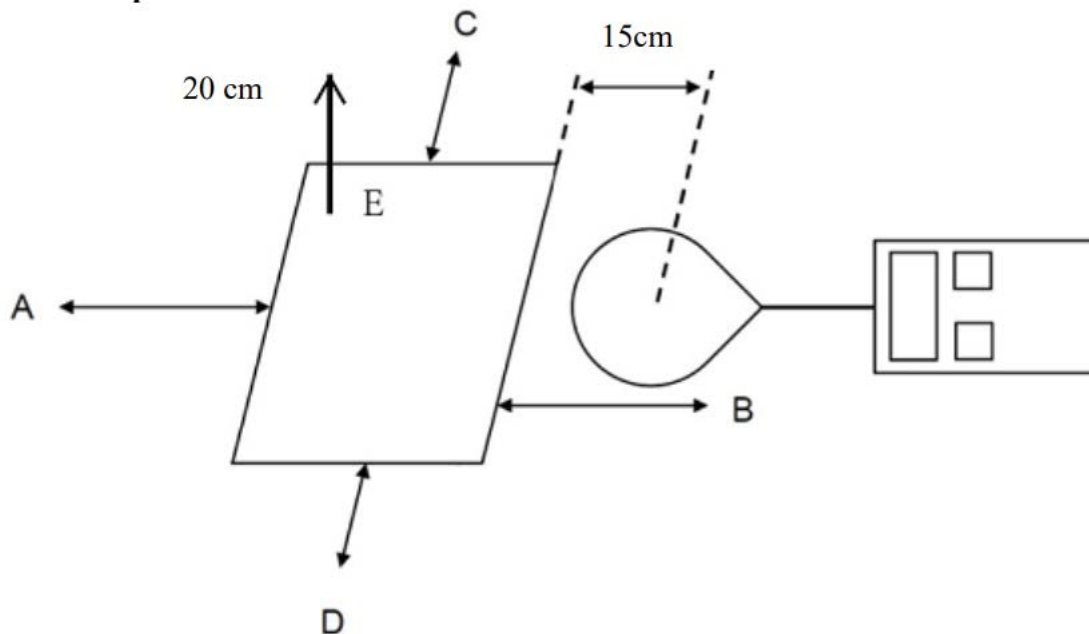
According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3 – 3.0	614	1.63	*(100)	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	*(100)	30

F = frequency in MHz

* = Plane-wave equivalent power density

1.2 Test setup

- The test was performed on 360 degree turn table in anechoic chamber.
- The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe.
- The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

1.3 Equipment Approval Considerations

Requirement	Device
1) Power transfer frequency is less than 1 MHz	Yes - the device operated in the frequency range from 110-146 KHz.
2) Output power from each primary coil is less than or equal to 15 watts.	Yes – Maximum power is 10 Watts.
3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes
4) Client device is placed directly in contact with the transmitter.	Yes
5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes
6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes – The aggregate field at 15cm from the device are 7.73 % of the FCC H field limit.

1.4 Equipments List

Description	Model No.	Serial No.	Manufacturer	Interval	Next Cal. Date
Exposure Level Meter	ELT-400	N-0693(probe:m-1149)	Narda	1 year	2021-06-12

1.5 Test Result**H-Field Test Result**

Test Mode	Full Load	Half Load	Empty Load
Frequency range (KHz)	110 – 146 KHz		
Position Top(V/m)	0.124	0.126	0.123
Position Bottom(V/m)	0.109	0.111	0.114
Position Front(V/m)	0.102	0.104	0.105
Position Rear(V/m)	0.116	0.113	0.115
Position Left(V/m)	0.112	0.115	0.116
Position Right(V/m)	0.104	0.105	0.102
Limits (V/m)	1.63		

FCC RF Exposure	Maximum meas data(A/m)	Percentage (%)
	0.126	7.73

E-Field Test Result

Test Mode	Full Load	Half Load	Empty Load
Frequency range (KHz)	110 – 146 KHz		
Position Top(V/m)	0.519	0.524	0.526
Position Bottom(V/m)	0.488	0.485	0.489
Position Front(V/m)	0.495	0.496	0.491
Position Rear(V/m)	0.461	0.464	0.468
Position Left(V/m)	0.474	0.471	0.476
Position Right(V/m)	0.480	0.483	0.475
Limits (V/m)	614		

FCC RF Exposure	Maximum meas data(A/m)	Percentage (%)
	0.526	0.086