RF Exposure Evaluation

1 Requirements

KDB 680106 D01 RF Exposure Wireless Charging Apps v03

YES	Power transfer frequency is less than 1 MHz.
NO	Output power from each primary coil is less than or equal to 15 watts.
YES	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	Client device is placed directly in contact with the transmitter.
YES	Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
YES	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.

2 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	June. 26 2019	June. 25 2020
Magnetic field probe 100cm^2	Narda	ELT probe 100cm^2	M0675	June. 26 2019	June. 25 2020

3 Test Result

Full load:

E-Filed

15cm				20cm	Limits(V/m)	50% Limits(V/m)
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
0.29	0.24	0.38	0.15	0.34	614	307

H-Filed

15cm				20cm	Limits(A/m)	50% Limits(A/m)
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
0.11	0.34	0.18	0.23	0.17	1.63	0.82

Half load:

E-Filed

15cm				20cm	Limits(A/m)	50% Limits(A/m)
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
0.24	0.34	0.28	0.11	0.29	1.63	0.82

H-Filed

15cm				20cm	Limits(A/m)	50% Limits(A/m)
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
0.13	0.28	0.13	0.25	0.17	1.63	0.82

Empty load:

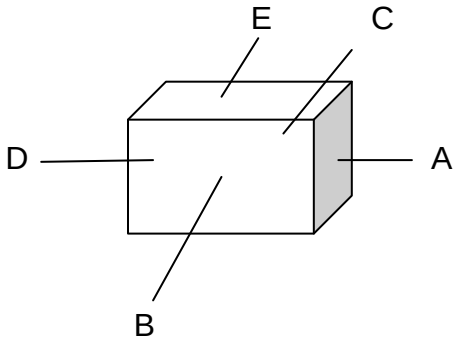
E-Filed

15cm				20cm	Limits(V/m)	50% Limits(V/m)
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
0.16	0.33	0.12	0.09	0.14	614	307

H-Filed

15cm				20cm	Limits(A/m)	50% Limits(A/m)
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
0.06	0.18	0.07	0.12	0.11	1.63	0.82

Position E: top of EUT
Position B: near of EUT
Position C: rear of EUT
Position D: left of EUT
Position A: right of EUT



4 Test setup