



RF Exposure Evaluation Report

1. Product Information

Product Name	Wireless Power Bank
Test Model	D10Pro
Power Supply	Type-C Input: 5V $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2A Type-C output: 5V $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2.2A, 9V $\overline{\text{---}}$ 2A Wireless charging and output: 5W, 7.5W, 15W USB output: 5V $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2A, 12V $\overline{\text{---}}$ 1.5A, 5V $\overline{\text{---}}$ 4.5A, 4.5V $\overline{\text{---}}$ 5A DC 3.85V by Rechargeable Li-ion Battery, 10000mAh
Modulation Type	ASK
Frequency Range	111.0~205.0 kHz
Operation Frequency	137 kHz
Antenna Type	Coil Antenna
Hardware version	/
Software version	/
Accessories	Mobile phone
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	portable Device





2. Evaluation Method

Per KDB 680106 D01 Section 3. RF Exposure Requirements;

- 1) Consumer wireless power transfer devices approved under Part 18 in some cases have to demonstrate compliance with RF exposure requirements. The potential for exposure must be assessed according to the operating configurations of the wireless system and the exposure conditions of users and bystanders. RF exposure must be evaluated with the client device(s) being charged by the primary at maximum output power. The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Section 2.1091 and Section 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to 1.1307 (c) and (d) of the FCC rules.
- 2) Based on the design and implementation of the power transfer application, it must be clearly identified if mobile or portable RF exposure conditions apply. Devices that are installed to provide separation of at least 20 cm from users and bystanders may qualify for mobile exposure conditions. For some conditions where users and bystanders may be exposed at closer than 20 cm, section 2.1091(d) (4) of the rules may apply.
- 3) 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. 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 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. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.
- 4) Portable exposure conditions from 100 kHz to 6 GHz are determined with respect to SAR requirements. Existing SAR systems and test procedures are generally intended for measurements above 100 MHz. While numerical modeling can be an alternative, the constraints of substantial computational resources at low frequencies could introduce further limitations. Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance.
- 5) Depending on the operating frequency, existing SAR and MPE measurement procedures may be adapted to evaluate wireless power transfer devices for compliance with respect to mobile or portable exposure conditions. If the grantee or its test lab have any questions regarding RF exposure evaluation they should contact the FCC Laboratory with sufficient system operating configuration details to determine if RF exposure evaluation is necessary and, if required, how to apply specific test procedures. Below 100 MHz, when SAR testing is required and the device is operating at close proximity to persons, information on device design, implementation, operating configurations, exposure conditions of users and bystanders are needed to determine the evaluation and testing requirements. In addition, the influence of nearby objects may also need consideration according to the wireless power transfer system implementation; for example, the effects of placing the device, its coils or radiating elements on or near metallic surfaces

3. Evaluation Limit

3.1 Refer evaluation method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v03](#): RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.





[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices

[FCC CFR 47 part 18.107](#): Industrial, Scientific, and Medical Equipment

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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
300-1,500	/	/	f/300	6
1,500-100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500	/	/	f/1500	30
1,500-100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

According to FCC KDB 680106 D01 Section 3. RF Exposure Requirements clause 3 the Emission-Limits in the frequency range from 100 KHz to 300 KHz should be assessed versus the limits at 300 KHz in Table 1 of CFR 47 – Section 1.310 as following (measured distance shall be 15cm from the center of the probe to the edge of the device):

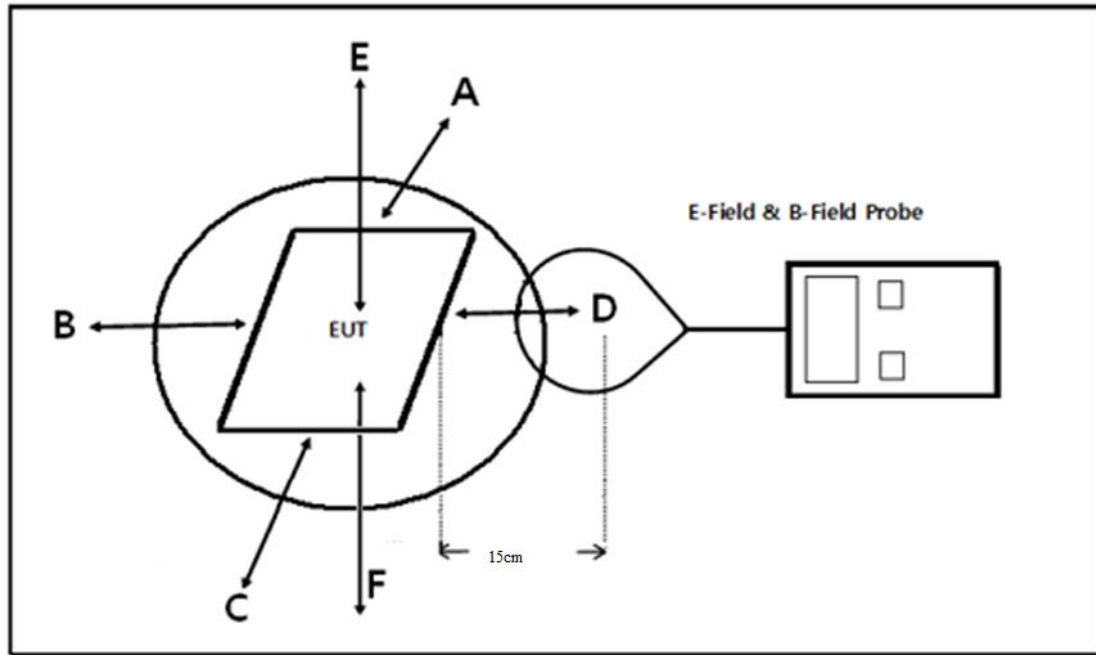
	E-Field	*/*	B-Field
Frequency	V/m	A/m	uT
0.3 MHz – 3.0 MHz	614	1.613	2.0
3.0 MHz – 30 MHz	824/f (=27.5 _{30MHz})	2.19/f (=0.073 _{30MHz})	--

A KDB inquire was required to determine/confirm the applicable limits below 100 KHz.





4. Test Setup Diagram



5. Test Equipment

Equipment	Manufacturer	Model	Serial no.	Calibrated date	Calibrated Due
Exposure Level Tester	Narda	ELT-400	N-0713	2022-10-29	2023-10-28
B-Field Probe	Narda	ELT-400	M-1154	2022-10-29	2023-10-28

6. Measurement Procedure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (0cm to 20cm) which is between the edges of the charger and the geometric center of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT were measured according to the dictates of KDB 680106D01v03.





7. Equipment Approval Considerations

The EUT does comply with item 5.2 of KDB 680106 D01v03 as follows table;

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 111.0 KHz - 205.0 KHz
Output power from each primary coil is less than 15 watts	Yes	The maximum output power of the primary coil is 15W.
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.	No	The transfer system includes single coil that is able to detect receiver device.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only(portable Exposure conditions are not covered by this exclusion).	No	This product is portable.
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 EUT 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.

In all other cases, unless excluded above, an RF exposure evaluation report must be reviewed and accepted through a KDB or PBA inquiry to enable authorization of the equipment. When evaluation is required to show compliance; for example, using field strength, power density, SAR measurements or computational modeling etc., the specific authorization requirements will be determined based on the results of the RF exposure evaluation.





8. E and H field Strength

Test Modes		
Mode 1	AC/DC Adapter (12V/1.5A+EUT+ Phone (Battery Status: <1%))	Record
Mode 2	AC/DC Adapter (12V/1.5A+EUT+ Phone (Battery Status: <50%))	Record
Mode 3	AC/DC Adapter (12V/1.5A+EUT+ Phone (Battery Status: <100%))	Record
Mode 4	AC/DC Adapter (9V/2A+EUT+ Phone (Battery Status: <1%))	Pre-tested
Mode 5	AC/DC Adapter (9V/2A+EUT+ Phone (Battery Status: <50%))	Pre-tested
Mode 6	AC/DC Adapter (9V/2A+EUT+ Phone (Battery Status: <100%))	Pre-tested
Mode 7	AC/DC Adapter (9V/2.2A+EUT+ Phone (Battery Status: <1%))	Pre-tested
Mode 8	AC/DC Adapter (9V/2.2A+EUT+ Phone (Battery Status: <50%))	Pre-tested
Mode 9	AC/DC Adapter (9V/2.2A+EUT+ Phone (Battery Status: <100%))	Pre-tested
Mode 10	AC/DC Adapter (5V/3A+EUT+ Phone (Battery Status: <1%))	Pre-tested
Mode 11	AC/DC Adapter (5V/3A+EUT+ Phone (Battery Status: <50%))	Pre-tested
Mode 12	AC/DC Adapter (5V/3A+EUT+ Phone (Battery Status: <100%))	Pre-tested
Mode 13	AC/DC Adapter (5V/4.5A+EUT+ Phone (Battery Status: <1%))	Pre-tested
Mode 14	AC/DC Adapter (5V/4.5A+EUT+ Phone (Battery Status: <50%))	Pre-tested
Mode 15	AC/DC Adapter (5V/4.5A+EUT+ Phone (Battery Status: <100%))	Pre-tested
Mode 16	AC/DC Adapter (4.5V/5A+EUT+ Phone (Battery Status: <1%))	Pre-tested
Mode 17	AC/DC Adapter (4.5V/5A+EUT+ Phone (Battery Status: <50%))	Pre-tested
Mode 18	AC/DC Adapter (4.5V/5A+EUT+ Phone (Battery Status: <100%))	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		





E-Field Strength at 0 cm from the edges surrounding the EUT and 0cm from the top surface of the EUT

Chargin gBattery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	38.279	41.754	42.701	40.323	43.893	307	614
50%	0.137	35.837	41.262	40.541	38.568	44.405	307	614
99%	0.137	38.336	41.632	41.893	38.683	43.848	307	614

H-Field Strength at 0 cm from the edges surrounding the EUT and 0cm from the top surface of the EUT

Chargin gBattery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.127	0.133	0.144	0.126	0.146	--	--
1%	A/m	0.102	0.107	0.115	0.101	0.117	0.815	1.63
50%	uT	0.128	0.131	0.137	0.127	0.138	--	--
50%	A/m	0.103	0.104	0.110	0.102	0.111	0.815	1.63
99%	uT	0.125	0.135	0.138	0.130	0.144	--	--
99%	A/m	0.100	0.108	0.111	0.104	0.115	0.815	1.63

Note: A/m=uT/1.25

Remark:

0cm-20cm only reflects the worst mode 0cm.





E-Field Strength at 2 cm from the edges surrounding the EUT and 2cm from the top surface of the EUT

Charging Battery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	38.234	40.065	43.245	38.013	43.993	307	614
50%	0.137	38.524	39.262	41.209	38.285	41.570	307	614
99%	0.137	37.585	40.562	41.607	39.095	43.334	307	614

H-Field Strength at 2 cm from the edges surrounding the EUT and 2cm from the top surface of the EUT

Charging Battery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.120	0.135	0.140	0.134	0.149	--	--
1%	A/m	0.096	0.108	0.112	0.107	0.119	0.815	1.63
50%	uT	0.119	0.130	0.134	0.135	0.148	--	--
50%	A/m	0.095	0.104	0.108	0.108	0.118	0.815	1.63
99%	uT	0.128	0.132	0.139	0.132	0.139	--	--
99%	A/m	0.103	0.106	0.111	0.106	0.111	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 4 cm from the edges surrounding the EUT and 4cm from the top surface of the EUT

Charging Battery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	37.904	40.116	42.673	39.022	42.205	307	614
50%	0.137	37.538	39.034	40.845	40.572	42.572	307	614
99%	0.137	37.051	41.045	42.079	39.420	42.869	307	614

H-Field Strength at 4 cm from the edges surrounding the EUT and 4cm from the top surface of the EUT

Charging Battery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.126	0.133	0.142	0.130	0.140	--	--
1%	A/m	0.101	0.107	0.114	0.104	0.112	0.815	1.63
50%	uT	0.125	0.130	0.136	0.135	0.142	--	--
50%	A/m	0.100	0.104	0.109	0.108	0.113	0.815	1.63
99%	uT	0.123	0.137	0.140	0.131	0.143	--	--
99%	A/m	0.099	0.109	0.112	0.105	0.114	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 6 cm from the edges surrounding the EUT and 6cm from the top surface of the EUT

Charging Battery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	37.027	41.415	40.362	40.033	42.892	307	614
50%	0.137	37.355	40.808	41.755	40.579	42.412	307	614
99%	0.137	37.563	40.876	43.363	39.659	44.733	307	614

H-Field Strength at 6 cm from the edges surrounding the EUT and 6cm from the top surface of the EUT

Charging Battery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.123	0.138	0.134	0.133	0.143	--	--
1%	A/m	0.099	0.110	0.107	0.107	0.114	0.815	1.63
50%	uT	0.124	0.136	0.139	0.135	0.141	--	--
50%	A/m	0.099	0.109	0.111	0.108	0.113	0.815	1.63
99%	uT	0.125	0.136	0.144	0.132	0.149	--	--
99%	A/m	0.100	0.109	0.115	0.106	0.119	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 8 cm from the edges surrounding the EUT and 8cm from the top surface of the EUT

Chargin gBattery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	37.304	39.653	42.841	38.423	41.530	307	614
50%	0.137	38.678	39.604	40.468	37.780	41.517	307	614
99%	0.137	38.716	39.256	41.751	37.488	41.784	307	614

H-Field Strength at 8 cm from the edges surrounding the EUT and 8cm from the top surface of the EUT

Chargin gBattery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.124	0.132	0.142	0.128	0.138	--	--
1%	A/m	0.099	0.106	0.114	0.102	0.110	0.815	1.63
50%	uT	0.129	0.132	0.135	0.126	0.138	--	--
50%	A/m	0.103	0.105	0.108	0.101	0.110	0.815	1.63
99%	uT	0.129	0.131	0.139	0.125	0.139	--	--
99%	A/m	0.103	0.104	0.111	0.100	0.111	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 10 cm from the edges surrounding the EUT and 10cm from the top surface of the EUT

Chargin gBattery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	37.763	38.945	40.530	39.263	42.710	307	614
50%	0.137	38.760	40.602	40.878	39.044	43.976	307	614
99%	0.137	36.323	41.820	43.575	40.330	44.727	307	614

H-Field Strength at 10 cm from the edges surrounding the EUT and 10cm from the top surface of the EUT

Chargin gBattery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.126	0.130	0.135	0.131	0.142	--	--
1%	A/m	0.100	0.104	0.108	0.104	0.114	0.815	1.63
50%	uT	0.129	0.135	0.136	0.130	0.146	--	--
50%	A/m	0.103	0.108	0.109	0.104	0.117	0.815	1.63
99%	uT	0.121	0.139	0.145	0.134	0.149	--	--
99%	A/m	0.097	0.111	0.116	0.107	0.119	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 12 cm from the edges surrounding the EUT and 12cm from the top surface of the EUT

Chargin gBattery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	36.760	39.859	41.142	37.507	43.268	307	614
50%	0.137	36.455	42.078	40.414	38.645	41.643	307	614
99%	0.137	36.996	39.272	43.035	40.157	41.560	307	614

H-Field Strength at 12 cm from the edges surrounding the EUT and 12cm from the top surface of the EUT

Chargin gBattery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.122	0.133	0.137	0.125	0.144	--	--
1%	A/m	0.098	0.106	0.109	0.100	0.115	0.815	1.63
50%	uT	0.121	0.140	0.134	0.129	0.139	--	--
50%	A/m	0.097	0.112	0.108	0.103	0.111	0.815	1.63
99%	uT	0.123	0.131	0.143	0.134	0.138	--	--
99%	A/m	0.098	0.104	0.115	0.107	0.111	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 14 cm from the edges surrounding the EUT and 14cm from the top surface of the EUT

Charging Battery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	37.717	40.917	41.996	39.843	42.259	307	614
50%	0.137	36.318	40.312	42.977	37.334	44.206	307	614
99%	0.137	37.631	40.339	43.157	37.519	41.516	307	614

H-Field Strength at 14 cm from the edges surrounding the EUT and 14cm from the top surface of the EUT

Charging Battery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.125	0.136	0.140	0.133	0.141	--	--
1%	A/m	0.100	0.109	0.112	0.106	0.112	0.815	1.63
50%	uT	0.121	0.134	0.143	0.124	0.147	--	--
50%	A/m	0.097	0.107	0.114	0.099	0.118	0.815	1.63
99%	uT	0.125	0.134	0.144	0.125	0.138	--	--
99%	A/m	0.100	0.107	0.115	0.100	0.110	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 16 cm from the edges surrounding the EUT and 16cm from the top surface of the EUT

Charging Battery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	37.026	40.747	41.798	40.004	41.530	307	614
50%	0.137	37.264	41.597	40.421	40.499	43.039	307	614
99%	0.137	36.525	40.971	42.300	40.261	43.992	307	614

H-Field Strength at 16 cm from the edges surrounding the EUT and 16cm from the top surface of the EUT

Charging Battery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.123	0.136	0.139	0.133	0.138	--	--
1%	A/m	0.099	0.108	0.111	0.106	0.110	0.815	1.63
50%	uT	0.124	0.138	0.134	0.135	0.143	--	--
50%	A/m	0.099	0.111	0.108	0.108	0.115	0.815	1.63
99%	uT	0.121	0.136	0.141	0.134	0.146	--	--
99%	A/m	0.097	0.109	0.113	0.107	0.117	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 18 cm from the edges surrounding the EUT and 18cm from the top surface of the EUT

Chargin gBattery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	36.865	39.395	40.649	39.944	42.363	307	614
50%	0.137	37.574	41.081	41.446	40.392	43.720	307	614
99%	0.137	36.235	40.668	42.847	37.628	43.348	307	614

H-Field Strength at 18 cm from the edges surrounding the EUT and 18cm from the top surface of the EUT

Chargin gBattery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.123	0.131	0.135	0.133	0.141	--	--
1%	A/m	0.098	0.105	0.108	0.106	0.113	0.815	1.63
50%	uT	0.125	0.137	0.138	0.134	0.145	--	--
50%	A/m	0.100	0.109	0.110	0.107	0.116	0.815	1.63
99%	uT	0.121	0.135	0.143	0.125	0.144	--	--
99%	A/m	0.096	0.108	0.114	0.100	0.115	0.815	1.63

Note: A/m=uT/1.25





E-Field Strength at 20 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

Charging Battery Level	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	0.137	36.435	40.422	40.428	37.863	42.755	307	614
50%	0.137	37.212	40.271	40.683	39.610	43.583	307	614
99%	0.137	36.565	39.226	40.769	39.201	44.496	307	614

H-Field Strength at 20 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

Charging Battery Level	Unit	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1%	uT	0.121	0.134	0.134	0.126	0.142	--	--
1%	A/m	0.097	0.108	0.108	0.101	0.114	0.815	1.63
50%	uT	0.124	0.134	0.135	0.132	0.145	--	--
50%	A/m	0.099	0.107	0.108	0.105	0.116	0.815	1.63
99%	uT	0.122	0.130	0.136	0.130	0.148	--	--
99%	A/m	0.097	0.104	0.108	0.104	0.118	0.815	1.63

Note: A/m=uT/1.25





9. Test Setup Photos

Remark:

0cm-20cm only reflects the worst mode 0cm.

9.1. Test Position A - Exposure photo from side edge surface-Rear (0cm)



(TM1)

9.2. Test Position B - Exposure photo from side edge surface-Left (0cm)



(TM1)





9.3. Test Position C - Exposure photo from side edge surface-Front (0cm)



(TM1)

9.4. Test Position D - Exposure photo from side edge surface-Right (0cm)



(TM1)





9.5. Test Position E - Exposure photo from top surface (0cm)



(TM1)





10. Conclusion

A minimum safety distance of at 0 cm surrounding the device is required when the device is charging a smart phone. The detected emissions with a distance of 0 cm surrounding the device is below the limitations according to FCC KDB 680106 D01 Section 3. RF Exposure Requirement Clause 3.

Revision History

Revision	Issue Date	Revision Content	Revised By
000	December 10, 2022	Initial Issue	--

.....END OF REPORT.....

