

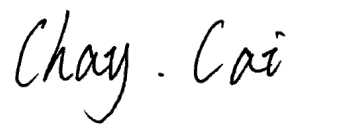
Human Exposure Report

FCC ID: 2BHFC-MCS03

Project No. : 2602C143
Equipment : Mobile Charging Station
Brand Name : **mindray**
Model Name : MCSU-III
Applicant : Nanjing Mindray Bio-Medical Electronics Co., Ltd.
Address : 666 Middle Zhengfang Road Nanjing,jiangsu, 211111 China
Manufacturer : Nanjing Mindray Bio-Medical Electronics Co., Ltd.
Address : 666 Middle Zhengfang Road Nanjing,jiangsu, 211111 China
Factory : Nanjing Mindray Bio-Medical Electronics Co., Ltd.
Address : 666 Middle Zhengfang Road, Jiangning, 211111 Nanjing, Jiangsu, P.R.China
Date of Receipt : Feb. 09, 2026
Date of Test : Feb. 10, 2026 ~ Mar. 13, 2026
Issued Date : Apr. 14, 2026
Test Sample : Engineering Sample No.: DG920260209373
Project No. : 2601C143
Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310
 KDB 680106 D01 Wireless Power Transfer v04

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan).

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2602C143	R00	Original Report.	Apr. 14, 2026	Valid

1. GENERAL INFORMATION

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

The BTL measurement uncertainty as below table:

Test Items	<i>U</i>
Magnetic Field strength (ESM-100, 5 Hz - 400 kHz)	6.220%
Electrical Field strength (EF 0391(NBM), 100 kHz - 3 GHz)	13.288%

2. APPLICABLE STANDARD

2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 1.1310:

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
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
1500-100000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposures				
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
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.
The emissions should be within the limits at 300kHz in Table 1 of 1.1310 (use the 300kHz limits for 150kHz: 614V/m, 1.63A/m).

For KDB 680106 D01:

The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

3. MEASUREMENT INSTRUMENTS LIST

Human Exposure						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Calibrated until
1	E-Field Probe	Narda Safety Test Solutions GmbH	EF 0391(NBM)	A-0253	Jul. 18, 2025	Jul. 17, 2026
2	NARDA Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-520	B-0138	Jul. 18, 2025	Jul. 17, 2026
3	3D H/E Fieldmeter	maschek Elektronik	ESM-100	971965	Nov. 18, 2025	Nov. 17, 2026

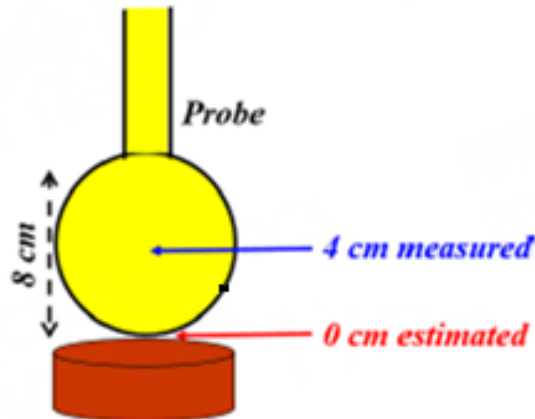
Remark:

(1) All calibration period of equipment list is three year.

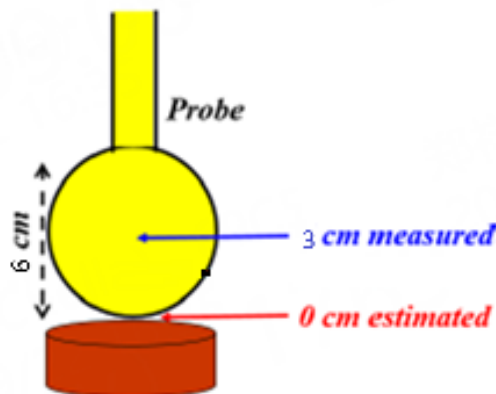
4. TEST PROCEDURE

(a) Test setup example diagram:

For E-Field measure:



For H-Field measure:



- (b) Test performed with all the radiating structures operating at maximum power at the same time.
- (c) Evaluate each edge surface of the host/client pair and identify the worst surface.
- (d) Measurements are taken along worst surface the device from 0cm ~ 20cm in 2cm minimum increment.
- (e) Proceed to collect the 11 measurement points that will be used to build the predictive model by curve-fitting. For polynomial regression models, the order of the model shall be increased until signs of over fitting become evident.
- (f) Using polynomial regression techniques to predict estimated values at touch position (0 cm).
- (g) For validation purposes: If the value to show a 30% agreement between the mode and the probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

5. TEST RESULTS

The E-field strength results of the probe sensor with a center distance of 4cm ~ 28cm from the surface of the EUT coil are as follows:

Condition	Distance (cm)	E-Field (V/m)
1	4	3.72
2	6	3.62
3	8	3.49
4	10	3.37
5	12	3.25
6	14	3.09
7	16	2.97
8	18	2.88
9	20	2.76
10	22	2.67
11	24	2.59
12	26	2.46
13	28	2.34

The H-field strength results of the probe sensor with a center distance of 3cm ~ 27cm and 6~26cm from the surface of the EUT coil are as follows:

Condition	Distance (cm)	H-Field (A/m)
1	3	0.3540
2	5	0.3406
3	7	0.3284
4	9	0.3176
5	11	0.3022
6	13	0.2896
7	15	0.2711
8	17	0.2486
9	19	0.2246
10	21	0.2122
11	23	0.1897
12	25	0.1687
13	27	0.1432
14	6	0.3330
15	8	0.3240
16	10	0.3130
17	12	0.2950
18	14	0.2810
19	16	0.2600
20	18	0.2350
21	20	0.2180
22	22	0.2010
23	24	0.1730
24	26	0.1550

Use the polynomial regression techniques to estimate the results of 4cm through 8cm for E-Field:

E-Field measure Value (V/m)	E-Field Estimated Value (V/m)	Agreement Ratio	Limits
3.72	3.081	17.18%	30%

As the model is sufficient, the 0cm E-Field value can be estimated through the results of 4cm, the 0cm H-Field value can be estimated through the results of 3cm.

E-Field Estimated Value (V/m)	Limits (V/m)	H-Field Estimated Value (A/m)	Limits (A/m)
3.945	614	0.383	1.63

Remark:

- (1) All surface had been evaluated; the worst surface is Top and recorded.
- (2) The EUT has the maximum average output power when the support unit is in low power and being charged by EUT.
- (3) Analyzing results:
E-Field:

Parameter	Linear Regression Model	Quadratic Regression Model	Cubic Regression Model	4th Order Regression Model
Multiple R	0.997	0.999	1.000	1.000
R ²	0.994	0.999	0.999	0.999
Adjusted R ²	0.993	0.998	0.999	0.999
Standard Error (S)*	0.029	0.015	0.012	0.013
Number of data points used	10	10	10	10
Estimated electric field strength at touch position (V/m)	3.946	4.095	3.945	3.801

* The units of the standard error are the units of the measured variable V/m.

As shown in the table above, the cubic regression model produced the lowest standard error. From the model, the estimated E-field strength at touch position 3.945 V/m.

Note that the 4th Order regression model was not selected as evidence of over fit were shown by the increase of S.

H-Field:

Parameter	Linear Regression Model	Quadratic Regression Model	Cubic Regression Model	4th Order Regression Model	5th Order Regression Model
Multiple R	0.994	0.998	0.999	0.999	0.999
R ²	0.988	0.997	0.998	0.998	0.999
Adjusted R ²	0.986	0.996	0.997	0.997	0.997
Standard Error (S)*	0.006164	0.003241	0.002951	0.002861	0.002926
Number of data points used	10	10	10	10	10
Estimated magnetic field strength at touch position (A/m)	0.392	0.365	0.345	0.383	0.465

* The units of the standard error are the units of the measured variable A/m.

As shown in the table above, the 4th Order regression model produced the lowest standard error. From the model, the estimated H-field strength at touch position 0.383A/m.

Note that the 5th Order regression model was not selected as evidence of over fit were shown by the increase of S.

End of Test Report