



FCC TEST REPORT
FCC ID: 2BRCN-BT200FHDW

On Behalf of

Damoa Cam Co., Ltd.

Power Bank Camera

Model No.: BT200FHDW-IR

Prepared for : Damoa Cam Co., Ltd.
Address : 402, Building C, Woorim Lions Valley, 425 Cheongcheon-dong,
Bupyeong-gu, Incheon

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2507228-C01-R03
Date of Receipt : July 26, 2025
Date of Test : July 27, 2025- August 6, 2025
Date of Report : August 6, 2025
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Damoa Cam Co., Ltd.
Address : 402, Building C, Woorim Lions Valley, 425 Cheongcheon-dong, Bupyeong-gu, Incheon
Manufacturer : Damoa Cam Co., Ltd.
Address : 402, Building C, Woorim Lions Valley, 425 Cheongcheon-dong, Bupyeong-gu, Incheon
EUT Description : Power Bank Camera
(A) Model No. : BT200FHDW-IR
(B) Trademark : N/A

Measurement Standard Used:

FCC CFR 47 PART 1, FCC CFR 47 part1, 1.1307(b), 1.1310, 2.1093

KDB 680106 D01 Wireless Power Transfer v04

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Jensen Wang
Test Engineer



Approved by (name + signature).....: Simple Guan
Project Manager



Date of issue.....: August 6, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	August 6, 2025	Initial released Issue	Jensen Wang

1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1), §1.1310, §2.1093 & KDB680106 D01	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

2. EUT Description

2.1. Description of Device (EUT)

EUT Name : Power Bank Camera
Model No. : BT200FHDW-IR
DIFF. : N/A
Type-C Input: 5V  2A
Power supply : Wireless Output: 5W
DC 3.7V from battery

Radio Technology : Wireless power transmission systems

Operation frequency : WPT(Phone): 115-205KHz

Modulation : MSK

Antenna Type : Coil Antenna

Software version : V1.0

Hardware version : V1.0

Note :
1. Antenna information is provided by applicant.
Testing lab is not responsible for the accuracy of the information.
2. When the product is only used for wireless magnetic charging of mobile phones, it is in a portable state.

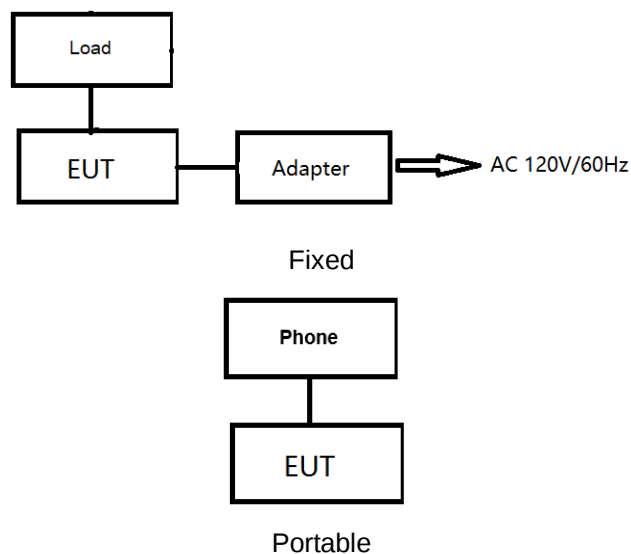
2.2. Accessories of Device (EUT)

Accessories	:	N/A
Manufacturer	:	N/A
Model	:	N/A
specifications	:	N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Load	N/A	N/A	N/A	N/A
2	USB cable	UGREEN	1M	N/A	N/A
3	mobile phones	XIAOMI	XIAOMI 15	N/A	N/A
4	Adapter	Baseus	CCXFK65CC	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

Requirements of KDB 680106 D01	Yes/No	Description
Mobile Device and Portable Device Configurations	Yes	Portable Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range 115KHz~205KHz

2.6. Description of Test Modes

Fixed type:

Mode	Test mode description
※1	Wireless Output = 5W
2	No Load

Note: The client operating modes have been tested and only display data for the worst-case scenario Mode 1 of the client battery status.

Portable type:

Mode	Test mode description
※1	Phone Magnet Wireless=5W
2	No Load

Note: The client operating modes (client battery status 1%, 50%, 99%) have been tested and only display data for the worst-case scenario Mode 1 of the client battery status.

2.7. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	26°C
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

2.8. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.9. Measurement Uncertainty

(95% confidence levels, k=2)

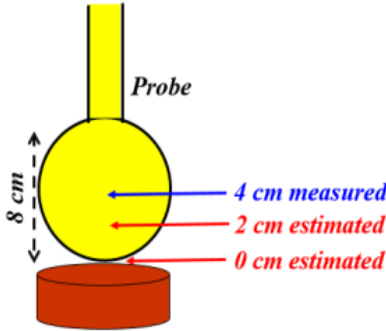
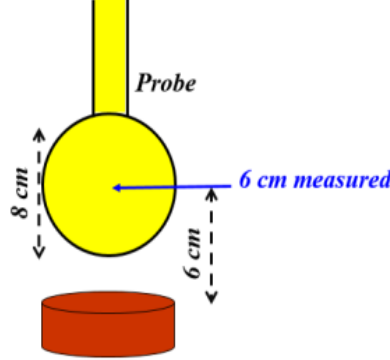
Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3. Test Results and Measurement Data

3.1. RF EXPOSURE TEST

3.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106																																																																	
Test Method:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.																																																																	
Limits:	According to the item 3 of KDB 680106 D01v04: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation. (1) Mobile Device and Portable Device Configurations (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz (3) The aggregate H-field strengths anywhere at (0/2/4/6/8/10/12/14/16/18/20cm) surrounding the device six surfaces. The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) Limits for Maximum Permissible Exposure (MPE) <table><thead><tr><th>Frequency range (MHz)</th><th>Electric field strength (V/m)</th><th>Magnetic field strength (A/m)</th><th>Power density (mW/cm²)</th><th>Averaging time (minutes)</th></tr></thead><tbody><tr><td colspan="5">(A) Limits for Occupational/Controlled Exposures</td></tr><tr><td>0.3-3.0</td><td>614</td><td>1.63</td><td>*(100)</td><td>6</td></tr><tr><td>3.0-30</td><td>1842/f</td><td>4.89/f</td><td>*(900/f²)</td><td>6</td></tr><tr><td>30-300</td><td>61.4</td><td>0.163</td><td>1.0</td><td>6</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/300</td><td>6</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>5</td><td>6</td></tr><tr><td colspan="5">(B) Limits for General Population/Uncontrolled Exposure</td></tr><tr><td>0.3-1.34</td><td>614</td><td>1.63</td><td>*(100)</td><td>30</td></tr><tr><td>1.34-30</td><td>824/f</td><td>2.19/f</td><td>*(180/f²)</td><td>30</td></tr><tr><td>30-300</td><td>27.5</td><td>0.073</td><td>0.2</td><td>30</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/1500</td><td>30</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>1.0</td><td>30</td></tr></tbody></table> 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).	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	1500-100,000	/	/	5	6	(B) 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	300-1500	/	/	f/1500	30	1500-100,000	/	/	1.0	30
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Test Setup:																																																																		

	Figure 1  Figure 2 
Test Mode:	Communication Mode (Mobile phone will be charged at zero charge, intermediate charge, and full charge.)
Test Procedure:	1) The RF exposure test was performed in anechoic chamber. 2) The measurement probe was placed at test distance (0/2/4/6/8/10/12/14/16/18/20cm) which is between the edge of the charger and the geometric center of probe. 3) The highest emission level was recorded and compared with limit as soon as measurement of each point (A, B, C, D, E, F) were completed. 4) The EUT was measured according to the dictates of KDB 680106 D01v04. 5) Large size probes may prevent the measurement of E- and/or H-fields near the surface of the radiating structure (e.g., a WPT source coil), as in the example shown in Figure 2. These estimates shall include points spaced no more than 2 cm from each other. Thus, in the example of Figure 2, at least the estimates at 0 cm and 2 cm are required, while only one point would not be sufficient. In addition, the model needs to be validated through the probe measurements for the two closest points to the device surface, and with 2-cm increments, as indicated in Figure 2. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is considered sufficient if a 30% agreement between the model and the (E- and/or H-field) probe measurements is demonstrated. If such a level of agreement cannot be shown, a more accurate model (and/or a smaller probe) shall be used.
Test Result:	PASS

3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	O-0729	2025.05.22	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M-2116	2025.05.22	1 Year

Note: The probe radius is 8 cm

3.1.3. Test data

Portable type: Phone Magnet Wireless=5W

The probe radius is 8 cm.

E-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Measured E-Field Strength Values (V/m)						FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	8	16.363	18.625	19.201	23.470	25.208	23.875	614
50%	8	17.570	19.118	19.399	23.976	26.206	24.895	614
1%	8	17.715	19.685	20.582	24.177	27.393	25.971	614
99%	10	14.970	17.146	17.435	20.673	22.539	21.191	614
50%	10	16.046	17.414	17.769	21.371	23.442	22.190	614
1%	10	16.714	17.808	18.684	22.037	24.562	23.409	614
99%	12	13.622	15.176	15.707	18.279	19.848	18.851	614
50%	12	14.700	15.651	16.306	19.117	20.435	19.866	614
1%	12	14.980	16.376	16.888	19.649	21.813	20.462	614
99%	14	12.505	13.442	13.840	15.876	16.739	16.235	614
50%	14	13.183	14.098	14.600	16.347	17.809	17.027	614
1%	14	13.845	14.693	15.042	17.063	19.106	18.042	614
99%	16	10.843	11.610	12.146	13.289	14.269	13.674	614
50%	16	12.120	12.298	12.704	13.966	14.846	14.398	614
1%	16	12.629	12.676	13.626	14.591	16.313	15.394	614
99%	18	9.703	10.091	10.328	10.822	11.237	10.804	614
50%	18	10.257	10.653	10.987	11.304	12.405	11.844	614
1%	18	11.213	10.904	11.784	12.201	13.441	12.988	614
99%	20	8.040	7.964	8.821	8.597	8.616	8.204	614
50%	20	9.044	8.492	9.098	8.842	9.556	9.106	614
1%	20	9.496	9.352	9.897	9.722	10.969	9.952	614

Note: V/m= A/m *377

H-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Unit	Measured H-Field Strength Values (A/m)						FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	8	uT	0.204	0.107	0.044	0.027	0.284	0.265	--
99%	8	A/m	0.204	0.136	0.142	0.058	0.139	0.164	1.63
50%	8	uT	0.157	0.270	0.104	0.092	0.045	0.116	--
50%	8	A/m	0.091	0.125	0.298	0.078	0.082	0.150	1.63
1%	8	uT	0.068	0.159	0.223	0.065	0.028	0.016	--
1%	8	A/m	0.042	0.095	0.125	0.173	0.159	0.022	1.63
99%	10	uT	0.065	0.011	0.252	0.077	0.207	0.235	--
99%	10	A/m	0.073	0.174	0.260	0.126	0.157	0.156	1.63
50%	10	uT	0.262	0.271	0.244	0.264	0.282	0.084	--
50%	10	A/m	0.088	0.110	0.177	0.018	0.185	0.143	1.63
1%	10	uT	0.052	0.149	0.035	0.279	0.095	0.025	--
1%	10	A/m	0.145	0.274	0.094	0.201	0.109	0.107	1.63
99%	12	uT	0.102	0.106	0.154	0.165	0.041	0.037	--
99%	12	A/m	0.238	0.142	0.152	0.090	0.095	0.216	1.63
50%	12	uT	0.195	0.208	0.128	0.154	0.106	0.096	--
50%	12	A/m	0.049	0.064	0.120	0.293	0.111	0.272	1.63
1%	12	uT	0.284	0.169	0.168	0.294	0.052	0.276	--
1%	12	A/m	0.146	0.144	0.033	0.172	0.180	0.300	1.63
99%	14	uT	0.162	0.027	0.284	0.262	0.100	0.002	--
99%	14	A/m	0.022	0.165	0.046	0.024	0.189	0.194	1.63
50%	14	uT	0.163	0.057	0.038	0.103	0.285	0.090	--
50%	14	A/m	0.273	0.160	0.020	0.111	0.127	0.116	1.63
1%	14	uT	0.229	0.187	0.169	0.095	0.144	0.064	--
1%	14	A/m	0.069	0.149	0.085	0.169	0.073	0.041	1.63
99%	16	uT	0.259	0.141	0.074	0.066	0.006	0.286	--
99%	16	A/m	0.010	0.150	0.041	0.153	0.106	0.039	1.63
50%	16	uT	0.043	0.019	0.038	0.007	0.061	0.099	--
50%	16	A/m	0.262	0.259	0.212	0.071	0.021	0.243	1.63
1%	16	uT	0.104	0.169	0.068	0.102	0.272	0.042	--
1%	16	A/m	0.079	0.070	0.027	0.142	0.089	0.074	1.63
99%	18	uT	0.009	0.062	0.136	0.145	0.058	0.147	--
99%	18	A/m	0.193	0.191	0.112	0.076	0.119	0.153	1.63
50%	18	uT	0.150	0.110	0.178	0.028	0.171	0.157	--
50%	18	A/m	0.145	0.036	0.046	0.109	0.258	0.184	1.63
1%	18	uT	0.082	0.109	0.106	0.057	0.076	0.081	--
1%	18	A/m	0.175	0.193	0.034	0.075	0.181	0.101	1.63
99%	20	uT	0.050	0.218	0.128	0.044	0.131	0.058	--
99%	20	A/m	0.084	0.070	0.130	0.159	0.066	0.078	1.63
50%	20	uT	0.207	0.172	0.197	0.137	0.148	0.153	--
50%	20	A/m	0.210	0.257	0.137	0.138	0.131	0.078	1.63

1%	20	uT	0.093	0.052	0.038	0.265	0.206	0.160	--
1%	20	A/m	0.004	0.031	0.062	0.012	0.210	0.080	1.63

Note: $A/m = uT/1.25$

According to the formula:

The formula for the magnetic field strength at a distance r from the coil is

$$H = I/(2\pi r) * \mu$$

H is A/m

I is the current intensity

μ is the permeability, and its value depends on the medium.

The other parameters are fixed, so H is inversely proportional to r .



ABCDEF direction The actual distance(r) to the antenna coil.

measured distance(cm)	Actual distance r to the antenna (cm)					
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F
20	23.809	23.809	20.108	20.108	19.835	21.9
18	21.809	21.809	18.108	18.108	17.835	19.9
16	19.809	19.809	16.108	16.108	15.835	17.9
14	17.809	17.809	14.108	14.108	13.835	15.9
12	15.809	15.809	12.108	12.108	11.835	13.9
10	13.809	13.809	10.108	10.108	9.835	11.9
8	11.809	11.809	8.108	8.108	7.835	9.9
6	9.809	9.809	6.108	6.108	5.835	7.9
4	7.809	7.809	4.108	4.108	3.835	5.9
2	5.809	5.809	2.108	2.108	1.835	3.9
0	3.809	3.809	0.108	0.108	-0.165	1.9

Note: The phone is 8.35mm thick.

The result is calculated by the above formula:

H-Field Strength at 0/2/4/6cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Unit	Measured H-Field Strength Values (A/m)						FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
1%	0	A/m	0.259	0.676	0.780	0.470	1.397	1.076	1.63
50%	0	A/m	0.353	0.721	0.861	0.458	1.163	0.908	1.63
99%	0	A/m	0.213	0.650	0.808	0.352	0.895	0.926	1.63
1%	2	A/m	0.360	0.374	0.490	0.278	0.423	0.237	1.63
50%	2	A/m	0.167	0.439	0.430	0.169	0.325	0.183	1.63
99%	2	A/m	0.146	0.263	0.263	0.097	0.246	0.109	1.63
1%	4	A/m	0.243	0.307	0.307	0.166	0.390	0.203	1.63
50%	4	A/m	0.149	0.167	0.321	0.162	0.245	0.281	1.63
99%	4	A/m	0.139	0.160	0.232	0.112	0.287	0.301	1.63
1%	6	A/m	0.188	0.302	0.322	0.123	0.320	0.173	1.63
50%	6	A/m	0.234	0.195	0.343	0.130	0.311	0.097	1.63
99%	6	A/m	0.139	0.187	0.107	0.099	0.214	0.267	1.63

Fixed type: Phone Wireless(Out) = 5W:

E-Field Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.115-0.205	7.42	7.00	6.52	6.56	7.11	614

H-Filed Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.115-0.205	0.67	0.53	0.67	0.74	0.45	1.63
uT	0.84	0.66	0.83	0.93	0.56	/

Note: uT to A/m: A/m = uT/1.25

3.1.4. Conclusion**Portable type:**

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

The model was established with a 30% agreement, so it was considered to be approved.

Fixed type:

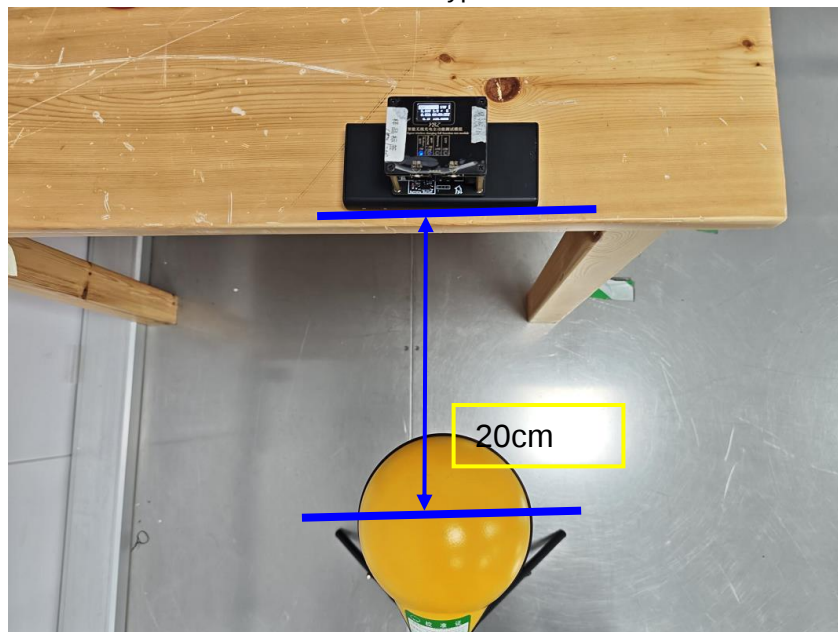
The detected emissions are below the limitations according FCC KDB 680106. The E-field and H-field strengths at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

4. Photos of test setup

Portable type



Fixed type



-----END OF REPORT-----