



1 Cover Page

RF Exposure Evaluation Report

Application No.: SHCR2111000688AT
FCC ID: 2A2EZVW15AM9P
Applicant: Delta Electronics, Inc.
Address of Applicant: No. 256, Yangguang Street, Neihu District, Taipei 114067, Taiwan
Manufacturer: Delta Electronics, Inc.
Address of Manufacturer: No. 256, Yangguang Street, Neihu District, Taipei 114067, Taiwan
Factory: Delta Electronics, Inc.
Address of Factory: 252, Shangying Road, Guishan District, Taoyuan City 333425, Taiwan
Equipment Under Test (EUT):
EUT Name: Wireless Charger Module
Model No.: PT00050017-C
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2021-11-08
Date of Test: 2021-11-08 to 2021-11-17
Date of Issue: 2021-11-17

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlan Zhan

Parlan Zhan
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-11-17	/

Authorized for issue by:			
		Bill Wu	
		Bill Wu / Project Engineer	
		Parlam Zhan	
		Parlam Zhan / Reviewer	



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3 General Information

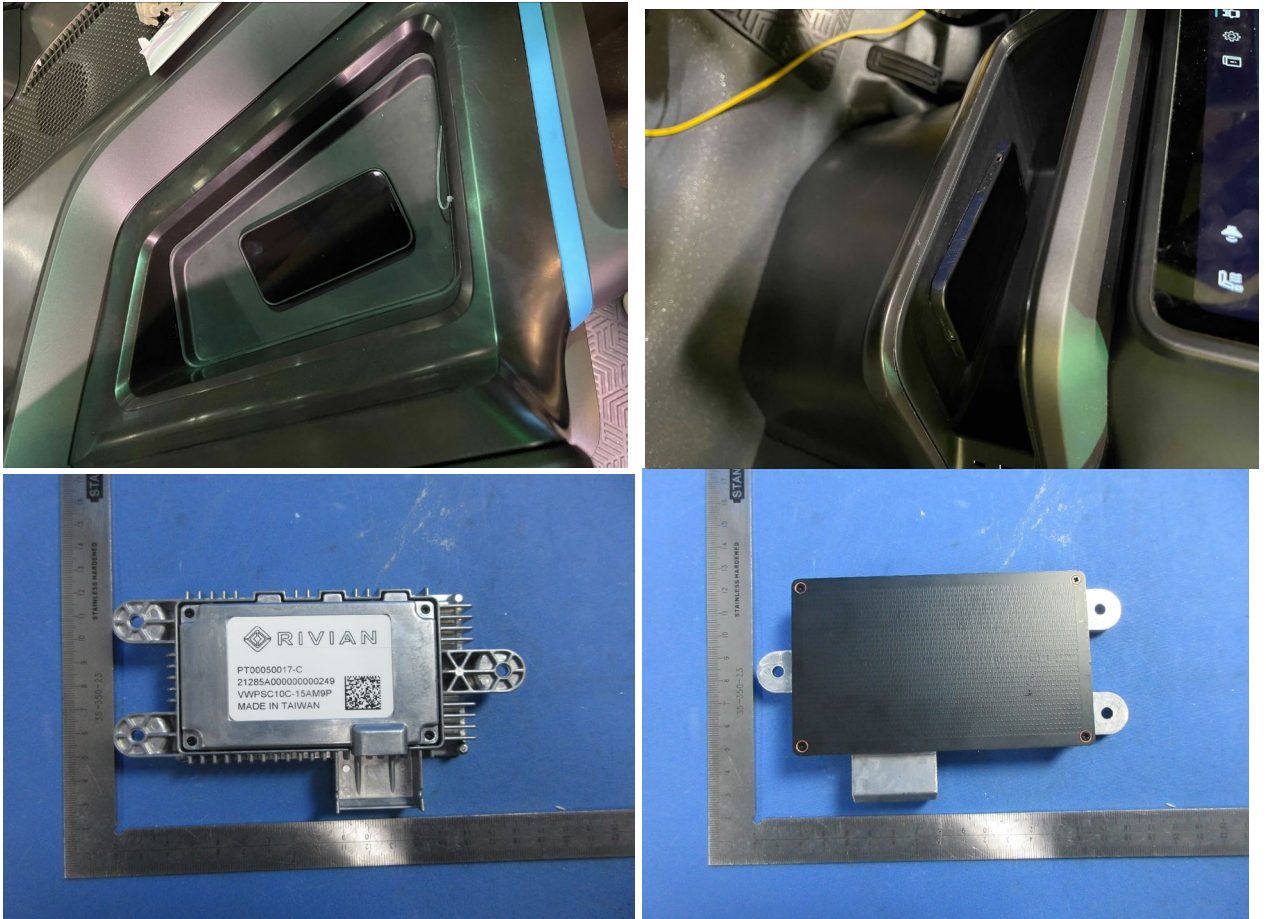
3.1 Details of E.U.T.

Power supply: DC 13.5V
 Test voltage: DC 13.5V
 Operation frequency: 127kHz
 Antenna type: Inductive Loop Coil Antenna
 Modulation Type: Load Modulation

3.2 Description of Support Units

Description	Manufacturer	Model No.
DC power supply	/	DF1730SC2A
Load	/	/
Mobilephone	Apple	Iphone 12

3.3 Description of Product installation location



The device is intended for installation inside a vehicle as shown in the figure above, where that a passenger may rest part of their body for an extended period. It is considered as a portable condition,



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so we test all four sides and the top of the device at a test distance of 0cm, 2cm, 4cm, 6cm, 8cm and 10cm.

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ST	N/A	SHEM078-2	2020-05-25	2023-05-24
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	EMC092	2021-08-05	2022-08-04
3	Test Software	Narda	EHP-200TS	N/A	N/A	N/A



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5 RF Exposure Test Results

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 0/2/4/6/8/10cm

Limit:

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
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(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
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).				

5.1 Operating Environment

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

5.2 EUT Operation

This device has been charge at zero charge, intermediate charge, and full charge. The Maximum value has been recorded in the below table

5.3 Simulation Load Mode

Test modes:	a:Transfer Zone Charging_ The load of each side shall be set at full, half and empty load (15W / 7.5W / 0W) respectively and keep charging continuously.
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5.3.1 Measurement Data

Electric Field Emissions

Test Distance (cm)	Test Position	Test Data (V/m)			Limit /50%Limit (V/m)	Result
		Full Load	Half Load	Empty Load		
0	Side 1	32.33	26.32	28.02	614/307	Pass
	Side 2	29.86	24.06	26.86	614/307	Pass
	Side 3	31.38	25.28	27.72	614/307	Pass
	Side 4	30.97	24.86	26.46	614/307	Pass
	Top	65.22	58.24	62.76	614/307	Pass
2	Side 1	17.22	10.98	14.32	614/307	Pass
	Side 2	16.46	11.14	13.98	614/307	Pass
	Side 3	15.89	10.24	14.12	614/307	Pass
	Side 4	16.52	10.12	14.24	614/307	Pass
	Top	24.26	20.46	22.08	614/307	Pass
4	Side 1	7.12	5.04	5.83	614/307	Pass
	Side 2	6.68	4.33	5.28	614/307	Pass
	Side 3	7.22	5.14	6.44	614/307	Pass
	Side 4	6.34	4.22	6.96	614/307	Pass
	Top	12.63	8.02	10.98	614/307	Pass
6	Side 1	5.22	1.54	3.22	614/307	Pass
	Side 2	4.79	1.51	2.98	614/307	Pass
	Side 3	5.04	1.46	3.31	614/307	Pass
	Side 4	4.82	1.38	2.94	614/307	Pass
	Top	8.69	2.64	5.98	614/307	Pass
8	Side 1	3.31	1.26	2.04	614/307	Pass
	Side 2	3.24	1.32	2.22	614/307	Pass
	Side 3	3.11	1.28	2.32	614/307	Pass
	Side 4	3.72	1.24	2.16	614/307	Pass
	Top	6.62	2.02	4.76	614/307	Pass
10	Side 1	2.72	1.21	1.54	614/307	Pass
	Side 2	2.69	1.06	1.62	614/307	Pass
	Side 3	2.24	1.14	1.68	614/307	Pass
	Side 4	2.73	1.02	1.38	614/307	Pass
	Top	4.02	1.86	2.24	614/307	Pass



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Magnetic Field Emissions

Test Distance (cm)	Test Position	Test Data (A/m)			Limit /50%Limit A/m	Result
		Full Load	Half Load	Empty Load		
0	Side 1	0.433	0.322	0.420	1.63/0.815	Pass
	Side 2	0.432	0.308	0.424	1.63/0.815	Pass
	Side 3	0.422	0.314	0.422	1.63/0.815	Pass
	Side 4	0.424	0.306	0.412	1.63/0.815	Pass
	Top	0.684	0.472	0.602	1.63/0.815	Pass
2	Side 1	0.282	0.210	0.246	1.63/0.815	Pass
	Side 2	0.274	0.202	0.248	1.63/0.815	Pass
	Side 3	0.282	0.197	0.244	1.63/0.815	Pass
	Side 4	0.268	0.196	0.246	1.63/0.815	Pass
	Top	0.426	0.402	0.4208	1.63/0.815	Pass
4	Side 1	0.184	0.110	0.150	1.63/0.815	Pass
	Side 2	0.79	0.106	0.148	1.63/0.815	Pass
	Side 3	0.182	0.112	0.152	1.63/0.815	Pass
	Side 4	0.176	0.108	0.146	1.63/0.815	Pass
	Top	0.304	0.228	0.286	1.63/0.815	Pass
6	Side 1	0.127	0.108	0.119	1.63/0.815	Pass
	Side 2	0.125	0.106	0.120	1.63/0.815	Pass
	Side 3	0.124	0.110	0.116	1.63/0.815	Pass
	Side 4	0.128	0.102	0.118	1.63/0.815	Pass
	Top	0.232	0.162	0.206	1.63/0.815	Pass
8	Side 1	0.118	0.091	0.111	1.63/0.815	Pass
	Side 2	0.114	0.088	0.112	1.63/0.815	Pass
	Side 3	0.118	0.090	0.108	1.63/0.815	Pass
	Side 4	0.116	0.084	0.110	1.63/0.815	Pass
	Top	0.134	0.104	0.126	1.63/0.815	Pass
10	Side 1	0.106	0.069	0.098	1.63/0.815	Pass
	Side 2	0.110	0.066	0.099	1.63/0.815	Pass
	Side 3	0.108	0.070	0.097	1.63/0.815	Pass
	Side 4	0.106	0.068	0.096	1.63/0.815	Pass
	Top	0.128	0.096	0.118	1.63/0.815	Pass



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5.4 Mobile phone Load Mode

Test mode:	c:Transfer Zones Charging_The load of each side shall be set at full load (15W) respectively and keep charging continuously.
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5.4.1 Measurement Data

Test Distance (cm)	Test Position	Field Emissions Test Data		Limit / 50% Limit		Result
		V/m	A/m	V/m	A/m	
0	Side 1	28.74	0.410	614 / 307	1.63 / 0.815	Pass
	Side 2	28.24	0.414			Pass
	Side 3	28.68	0.408			Pass
	Side 4	28.96	0.412			Pass
	Top	65.24	0.664			Pass
2	Side 1	16.24	0.233			Pass
	Side 2	15.78	0.236			Pass
	Side 3	16.06	0.232			Pass
	Side 4	15.86	0.234			Pass
	Top	23.69	0.416			Pass
4	Side 1	6.82	0.160			Pass
	Side 2	6.72	0.158			Pass
	Side 3	6.86	0.156			Pass
	Side 4	6.78	0.158			Pass
	Top	12.06	0.294			Pass
6	Side 1	4.72	0.120			Pass
	Side 2	4.70	0.122			Pass
	Side 3	4.72	0.118			Pass
	Side 4	4.68	0.120			Pass
	Top	8.28	0.212			Pass
8	Side 1	3.71	0.110	Pass		
	Side 2	3.70	0.108	Pass		
	Side 3	3.64	0.109	Pass		
	Side 4	3.68	0.106	Pass		
	Top	6.58	0.128	Pass		
10	Side 1	2.12	0.095	Pass		
	Side 2	2.08	0.093	Pass		
	Side 3	2.11	0.094	Pass		
	Side 4	2.06	0.092	Pass		
	Top	3.96	0.120	Pass		



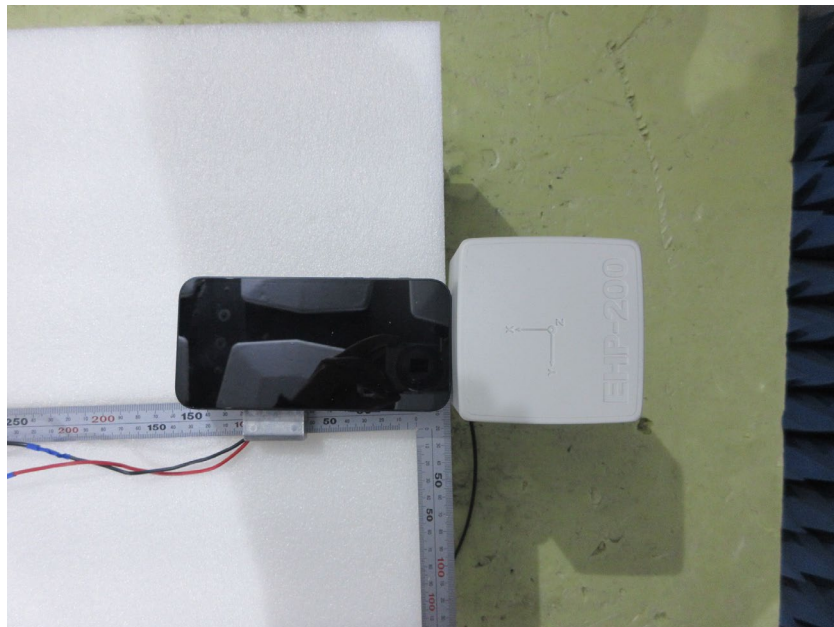
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6 Test photos

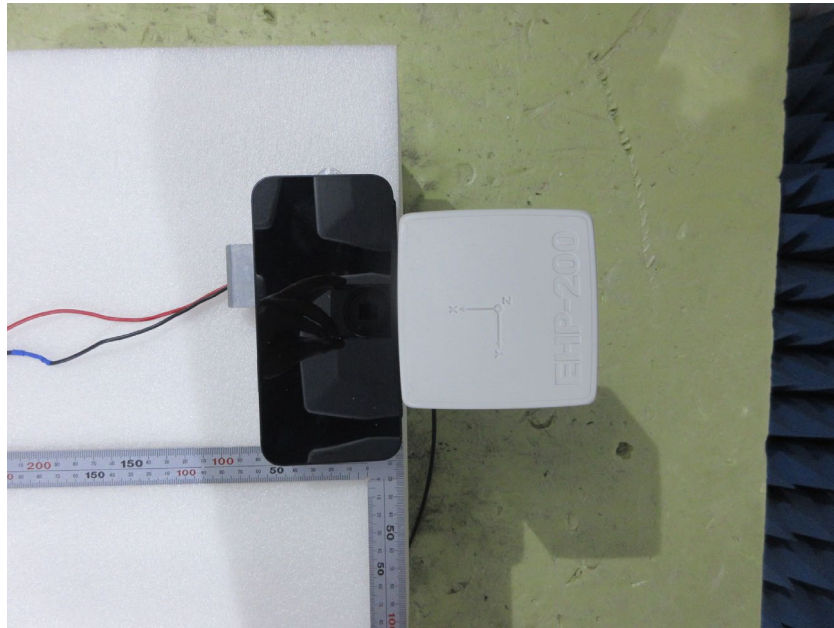
Side 1 (0cm)



Side 2 (0cm)



Side 3 (0cm)

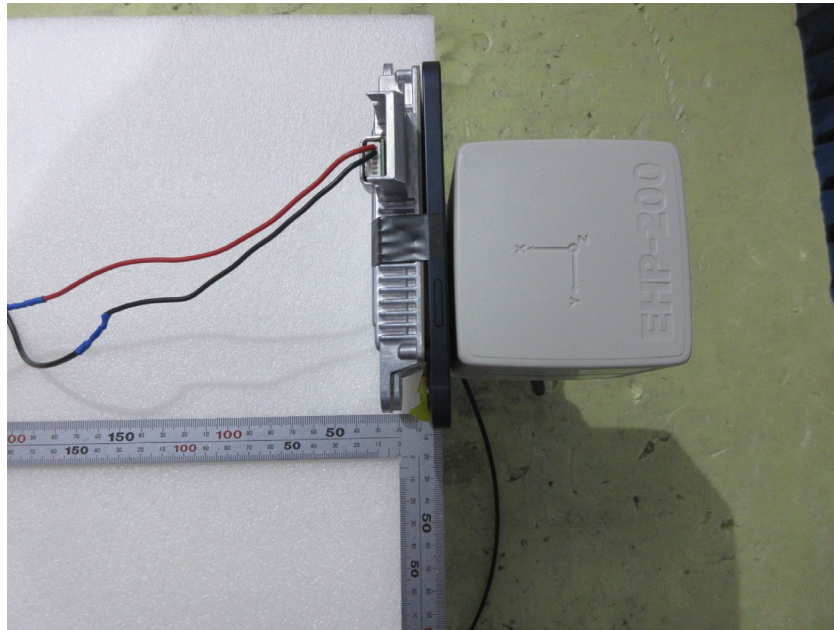


Side 4 (0cm)

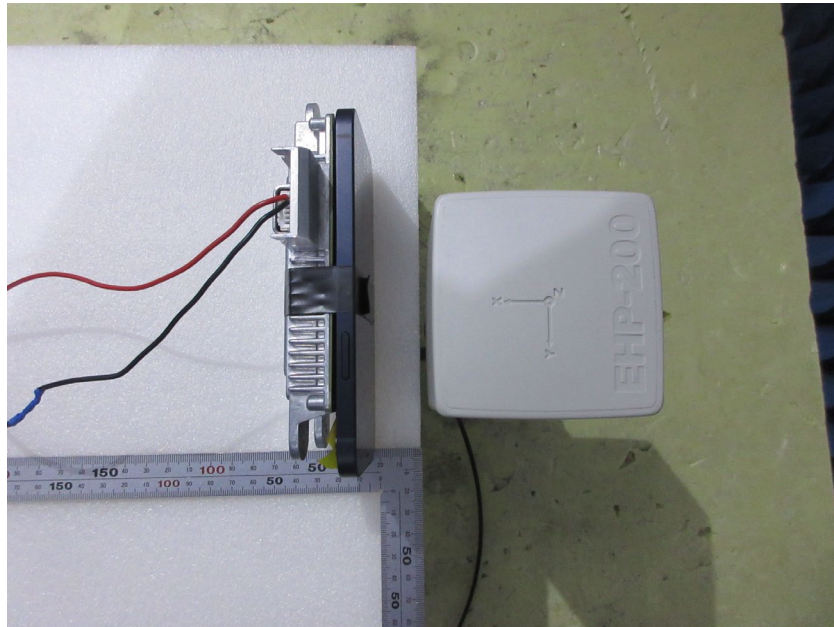


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Top (0cm)

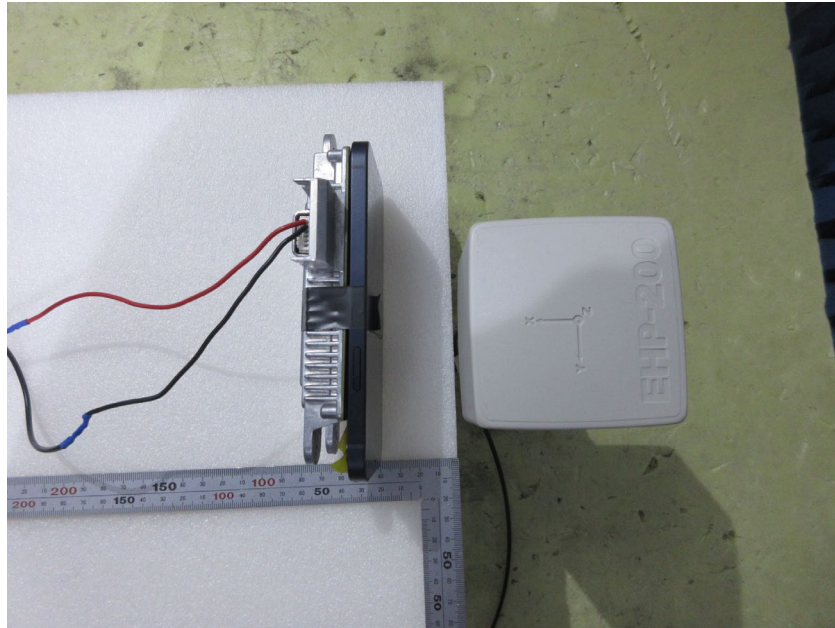


Top (2cm)

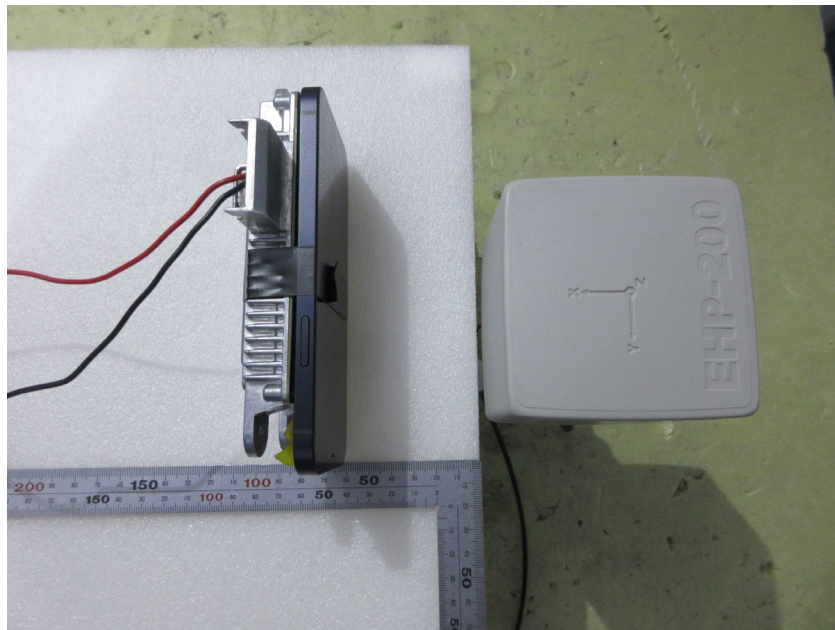


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Top (4cm)

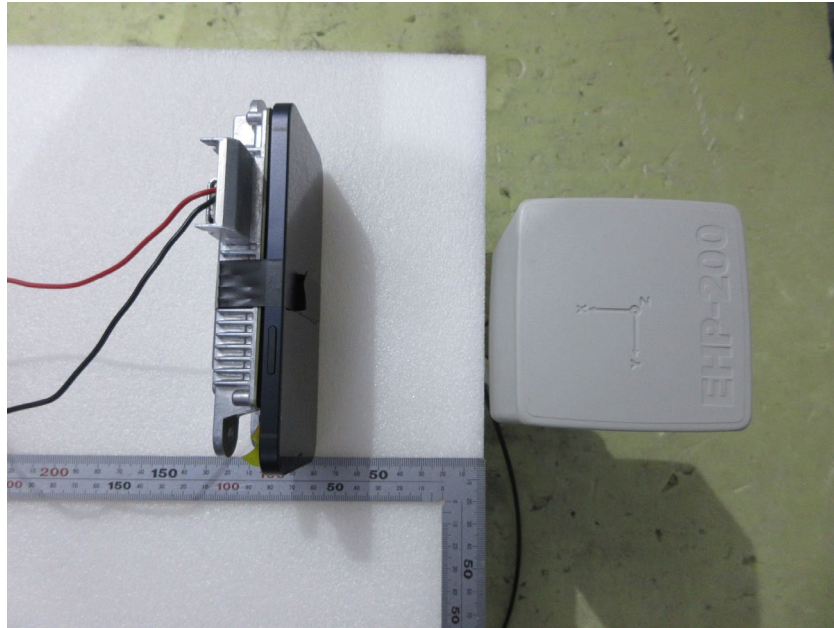


Top (6cm)

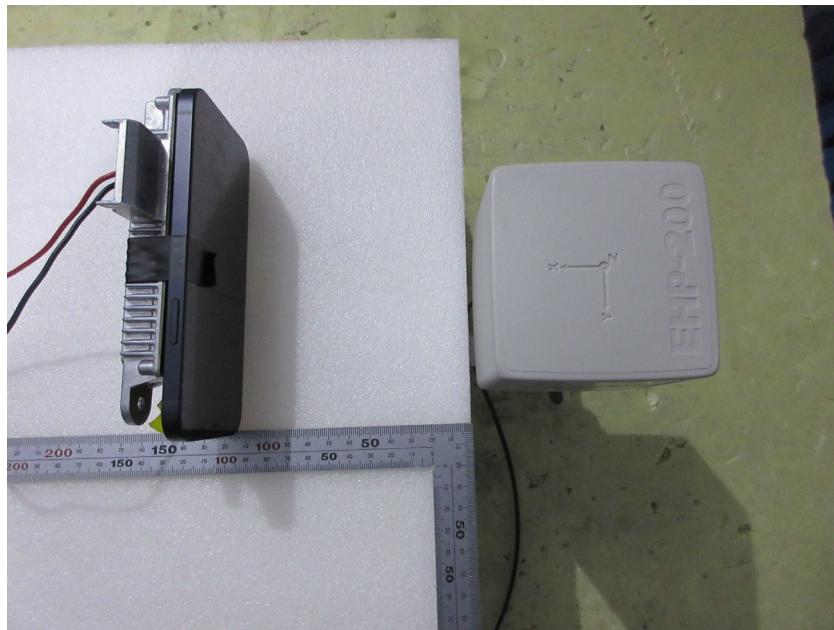


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Top (8cm)



Top (10cm)



- End of the Report -



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