



RF Exposure Report

For

Applicant name: Adam Elements International Co., LTD.
Address: 8F.-5, No. 148, Sec. 4, Zhongxiao E. Rd., Da'an Dist., Taipei City 106, Taiwan
EUT name: Qi2 25W Cooling Car Mount Charger
Brand name: ADAM
Model number: CQ3
FCC ID: 2ABY9CQ3

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF250812R00502
Test standards: 47 CFR Part 1 Subpart I Section 1.1310
Test conclusion: Pass
Date of sample receipt: 2025-08-12
Test date: 2025-08-12 to 2025-08-25
Date of issue: 2025-12-20

Prepared by: Chris Liu
Chris Liu / Project engineer

Approved by:


Ryan.CJ/EMC manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-12-20	Original

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1. Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2. Product Information

2.1 Application Information

Company name:	Adam Elements International Co., LTD.
Address:	8F.-5, No. 148, Sec. 4, Zhongxiao E. Rd., Da'an Dist., Taipei City 106, Taiwan

2.2 Manufacturer Information

Company name:	Adam Elements International Co., LTD.
Address:	8F.-5, No. 148, Sec. 4, Zhongxiao E. Rd., Da'an Dist., Taipei City 106, Taiwan

2.3 Factory Information

Company name:	Dongguan World Pass Industrial Co.,Ltd.
Address:	No.29,Lianhuan Road,Dalingshan Town,Dongguan City, GuangdongProvince, P.R. China

2.4 General Description of Equipment under Test (EUT)

EUT name	Qi2 25W Cooling Car Mount Charger
Under test model name	CQ3
Hardware Version	N/A
Software Version	N/A
Wireless Charger input power	9V=== 3A, 12V=== 3A, 15V=== 3A
Wireless Charger output power	5W, 7.5W, 10W, 15W, 25W

Operation frequency:	127.07
Modulation technology:	ASK
Antenna type:	Coil Antenna

2.5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
USB-C Power Adapter	Apple Inc.	A2166	/	/	/
Wireless load	YBZ	F18	/	/	/
Mobile Phone	XiaoMi	xiaomi 14	/	/	/

3. Test Requirement

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

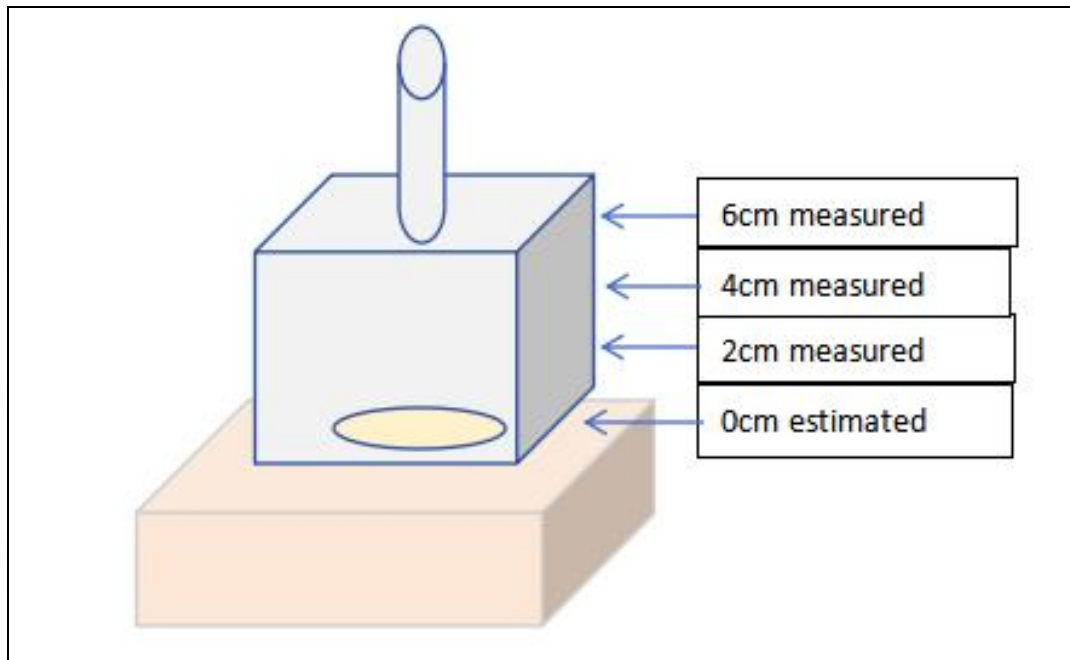
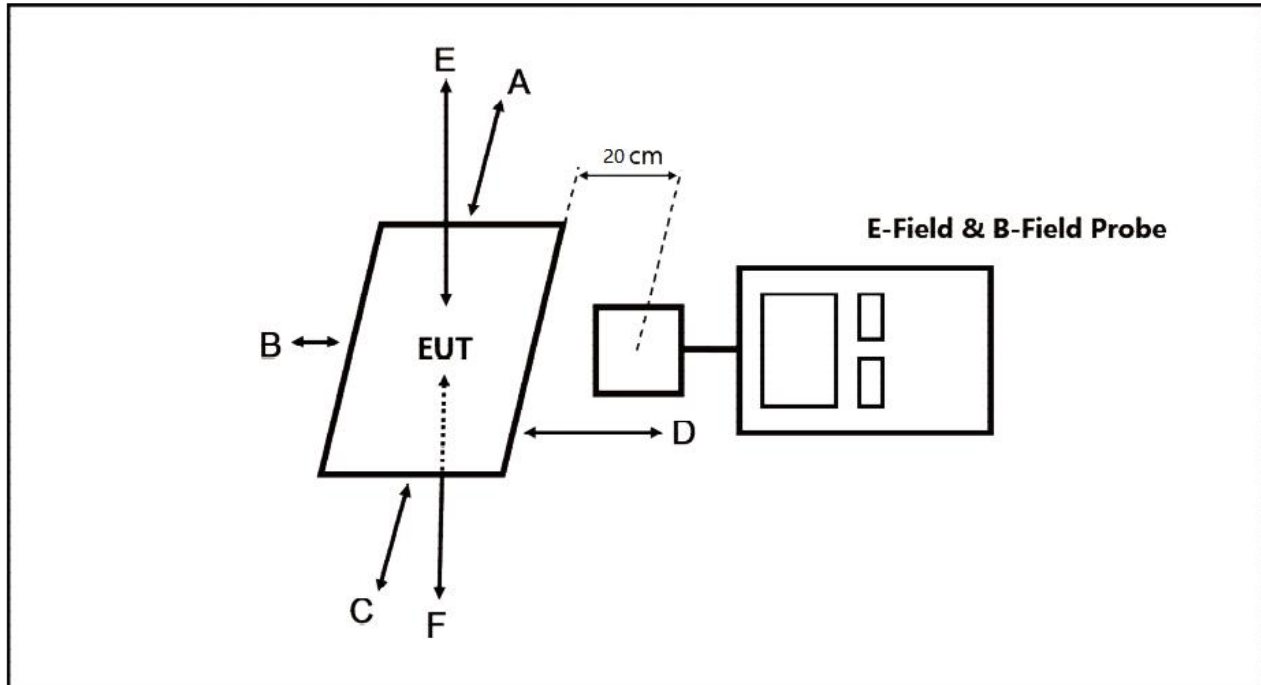
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

4. Test Equipment List

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2024/11/16	2025/11/15

5. Test Setup



Note1: The sensitive elements are located approximately 8mm below the external surface

Note2: Measurements should be made from all sides and the top of the primary/client pair, with the 0/2/4/6/8/10/12/14/16/18/20cm measured from the center of the probe(s) to the edge of the device.

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 points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

6. Assessment Result

Note: The sensitive elements are located approximately 8mm below the external surface

6.1 E-Field Strength Test Data

E-Field Strength at 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%	20	0.1617	1.7562	1.5288	1.5298	2.9511	2.6693	614
50%	20	0.2369	1.7917	1.6039	1.5666	3.0276	2.7820	614
1%	20	0.3124	1.8692	1.6429	1.5934	3.1039	2.8595	614

Note: $V/m = A/m \times 377$

6.2 H-Field Strength Test Date:

H-Field Strength at 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%	20	uT	0.0110	0.0074	0.0071	0.0076	0.0114	0.0112	--
99%	20	A/m	0.0088	0.0059	0.0057	0.0061	0.0091	0.0089	1.63
50%	20	uT	0.0092	0.0090	0.0063	0.0078	0.0129	0.0114	--
50%	20	A/m	0.0073	0.0072	0.0051	0.0063	0.0103	0.0091	1.63
1%	20	uT	0.0107	0.0094	0.0078	0.0064	0.0122	0.0117	--
1%	20	A/m	0.0085	0.0075	0.0063	0.0051	0.0097	0.0094	1.63

Note: A/m=uT/1.25

7. Test Set-up Photo





Test Report Number: BTF250812R00502



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