



## SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250100006602

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### ***RF Exposure Evaluation Report***

**Application No.:** SHCR2501000066HS  
**FCC ID:** 2BE8K-9120077180304  
**Applicant:** Tyromotion GmbH  
**Address of Applicant:** Bahnhofgurtel 59, 8020 Graz  
**Manufacturer:** Tyromotion GmbH  
**Address of Manufacturer:** Bahnhofgurtel 59, 8020 Graz  
**Factory:** Tyromotion GmbH  
**Address of Factory:** Bahnhofgurtel 59, 8020 Graz  
**Equipment Under Test (EUT):**  
**EUT Name:** Pablo Charger  
**Model No.:** Pablo G5  
**Standard(s) :** 47 CFR PART 1, Subpart I, Section 1.1310  
**Date of Receipt:** 2025-01-09  
**Date of Test:** 2025-01-10 to 2025-03-24  
**Date of Issue:** 2025-03-25

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



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Revision Record			
Version	Description	Date	Remark
00	Original	2024-03-25	/

Authorized for issue by:				
Tested By		Wade Zhang		
		Wade Zhang/Project Engineer		
Approved By		Parlam Zhan		
		Parlam Zhan / Reviewer		



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### 3 General Information

#### 3.1 Details of E.U.T.

Power supply: Input: AC 100-240V, 50/60Hz, 0.32-0.19A  
Output: DC 5V 2A  
Wireless output: Max 10W  
Operation frequency: 110kHz to 205kHz  
Modulation type: Load modulation  
Antenna type: Inductive Loop Coil Antenna

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Hand sensor	Supply by applicant	N/A	N/A
Motion sensor	Supply by applicant	N/A	N/A



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### 3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

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

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3. Sample source: sent by customer.

### 3.4 Test Facility

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

- **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.

### 3.5 Deviation from Standards

None

### 3.6 Abnormalities from Standard Conditions

None



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**4 Equipments Used during Test**

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal date	Cal. Due date
1	Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
2	Electromagnetic Field Probe	Narda	EHP-200AC	SHEM0907	2023-04-10	2024-04-09



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## 5 Test Results

### 5.1 RF Exposure test

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

Measurement Distance: 10 cm for surrounding the device and 10 cm for above the top surface.

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).				

## 5.2 E.U.T. Operation

### 5.2.1 Operating Environment

Temperature: 24.0 °C

Humidity: 52% RH

Atmospheric Pressure: 1015 mbar

### 5.2.2 EUT Operation:

### 5.2.3 Simulation Load Mode

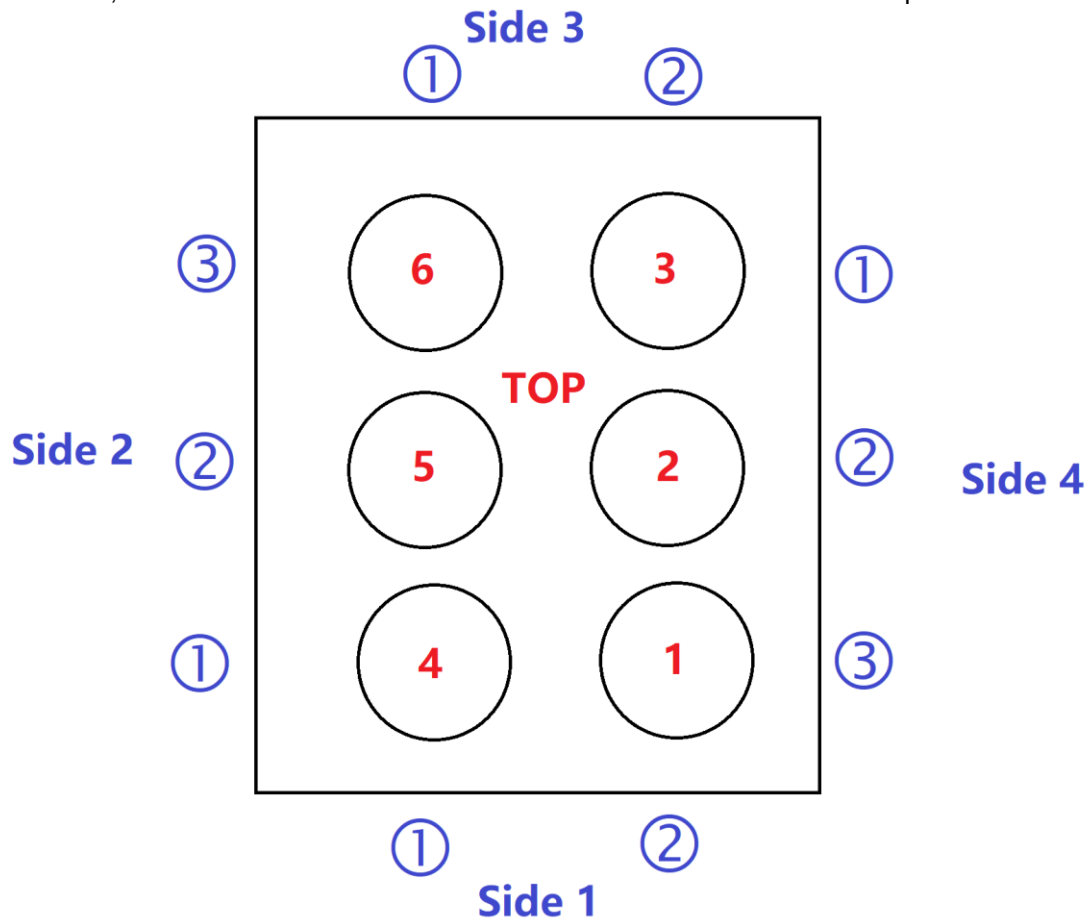
Test mode 00: Wireless Output(The load shall be set at full, half, empty load)

### Measurement Data:

The EUT have several kinds sequence with the different load, we all pretested and find the sequence

(1: Motion sensor, 2: Motion sensor, 3: Motion sensor, 4+5+6: Hand Sensor)

is the worst case, so we choose this mode as the worst to test and resulted in this report.







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### Test mode 00:

#### Electric Field

Test Distance (cm)	Test Position		Test Data (V/m)			Limit (V/m)	Result
			Full Load	Half Load	Empty Load		
10	Side1	1	1.331	0.522	0.317	614 50% Limit	Pass
		2	1.306	0.492	0.391		Pass
	Side2	1	1.326	0.504	0.316		Pass
		2	1.272	0.471	0.287		Pass
		3	1.325	0.478	0.307		Pass
	Side3	1	0.911	0.365	0.306		Pass
		2	0.932	0.362	0.316		Pass
	Side4	1	0.949	0.388	0.278		Pass
		2	0.933	0.324	0.298		Pass
		3	0.938	0.346	0.256		Pass
	Top	1	2.151	2.118	2.102		Pass
		2	2.162	2.127	2.105		Pass
		3	2.164	2.131	2.091		Pass
		4	2.137	2.143	2.114		Pass
		5	2.161	2.132	2.109		Pass
		6	2.154	2.138	2.113		Pass

#### Magnetic Field

Test Distance (cm)	Test Position		Test Data (A/m)			Limit (A/m)	Result
			Full Load	Half Load	Empty Load		
10	Side1	1	0.148	0.076	0.052	1.63	Pass
		2	0.137	0.064	0.045		Pass
	Side2	1	0.157	0.083	0.052		Pass
		2	0.166	0.078	0.033		Pass
		3	0.161	0.075	0.042		Pass
	Side3	1	0.146	0.068	0.039		Pass
		2	0.169	0.057	0.043		Pass
	Side4	1	0.142	0.065	0.054		Pass
		2	0.134	0.075	0.046		Pass
		3	0.139	0.071	0.061		Pass
	Top	1	0.951	0.812	0.501		Pass
		2	0.938	0.798	0.527		Pass
		3	0.968	0.788	0.565		Pass
		4	0.993	0.831	0.507		Pass
		5	0.916	0.805	0.526		Pass
		6	0.935	0.811	0.551		Pass

## 6 Test Photo

Side1



Side2



Side3



Side4



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- End of the Report -