

Test report no.: <i>Prüfbericht-Nr.:</i>	CN25O81V 002	Order No.: <i>Auftragsnr.:</i>	168562201	Page 1 of 10 <i>Seite 1 von 10</i>	
Client reference no.: <i>Kunden-Referenz-Nr.:</i>	N/A	Order date: <i>Auftragsdatum:</i>	2025-06-17		
Client: <i>Auftraggeber:</i>	SHOKZ (SINGAPORE) PTE. LTD. 11 NORTH BUONA VISTA DRIVE, #16-09 THE METROPOLIS, SINGAPORE 138589, Singapore				
Test item: <i>Prüfgegenstand:</i>	OpenSwim Pro Charging Cable				
Identification / Type no.: <i>Bezeichnung / Typ-Nr.:</i>	CC711 (Trademark: SHOKZ)				
Order content: <i>Auftrags-Inhalt:</i>	Test Report				
Test specification <i>Prüfgrundlage:</i>	FCC CFR 47 PART 1, § 1.1310 KDB 680106 D01 Wireless Power Transfer v04				
Date of sample receipt: <i>Wareneingangsdatum:</i>	2025-07-02	Please refer to Photo Document			
Test sample no: <i>Prüfmuster-Nr.:</i>	A004033709				
Testing period: <i>Prüfzeitraum:</i>	2025-07-03 – 2025-07-29				
Place of testing: <i>Ort der Prüfung:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Testing laboratory: <i>Prüflaboratorium:</i>					
Test result*: <i>Prüfergebnis*:</i>	Pass				
tested by: <i>geprüft von:</i>			authorized by: <i>genehmigt von:</i>		
Date: 2025-09-25 <i>Datum:</i>	Signed by: Harry W. C. Wu		Issue date: 2025-09-25 <i>Ausstellungsdatum:</i>	Signed by: Alex Lan	
Position / Stellung:	Expert/Sachverständige(r)		Position / Stellung:	Expert/Sachverständige(r)	
Other: <i>Sonstiges:</i>	FCC ID: 2BCD6-CC711 This report is for WPT EMF.				
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>	Test item complete and undamaged Prüfmuster vollständig und unbeschädigt				
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet	
This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. <i>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</i>					

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Remarks
Anmerkungen

- | | |
|----------|--|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i></p> |
| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A setup photos

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Certificate Number: 5162.01

FCC Accreditation Designation No.: CN1260

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

EMF					
Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated until (DD.MM.YYYY)
9050046	Electric and Magnetic Field Analyzer	Narda	EHP200A	180ZX20517	21.09.2025

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally, all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Magnetic Field Emissions (A/m)	1.5dB
Electric Field Emissions (V/m)	1.5dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

2.6 Location of Original Data

The original copies of test plots taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

TÜV Rheinland (Shenzhen) Co., Ltd. test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Charging Cable for Bluetooth Headset, which supports wireless charging (WPT) function. For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	OpenSwim Pro Charging Cable
Type Designation	CC711
Trade Mark	SHOKZ
FCC ID:	2BCD6-CC711
Operating Voltage:	DC 5V via type-C port
Operating Temperature Range:	0°C to +40°C
Technical Specification of WPT	
Frequency Range:	800 -900 kHz
Operating Frequency:	845 kHz
Type of Modulation:	FSK
Antenna Type:	Induction coil antenna
Wireless output:	Wireless 5W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless output Max
- B. On, Stand by

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form

- ID Label and Location Info

3.6 Test Procedures

- a). The RF exposure test was performed in anechoic chamber.
- b). E and H-field measurements performed under the § 2.1093-Portable conditions, as a conservative evaluation. (This WPT will be fixed installed on the vehicle)
- c). The highest emission level was recorded and compared with limit.
- d). The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

3.7 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Note
AC/DC Adapter	Lenovo	LA140	Input: 100-240V, 50/60Hz, 2.5A Output: DC 5V, 3A, or DC 9V, 3A or DC 12V, 3A or DC 15V, 3A
Bluetooth Headset (OPENSWIM PRO)	SHOKZ	SHOKZ S711	N/A

4 Radio Frequency Exposure Compliance

4.1 Test Procedures According to the Technical Standards

Standard Section	Test Item	Judgment
FCC CFR 47 part1, 1.1310 KDB 680106 D01 Wireless Power Transfer v04	Electric Field Strength (E) (V/m)	PASS
	Magnetic Field Strength (H) (A/m)	PASS

4.2 Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

Note 2: For the applicable limit, see FCC 1.1310, KDB 680106 D01 Wireless Power Transfer v04.

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310:614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The curve-fitting techniques(Method in Notice 2024-DRS0004) were used to extrapolate the E/H field values to 0mm distance value. These initial measurements are made at Z = 70 mm from the surface of the face (six faces are considered) with 10mm step to 20cm distance. Also Test distance from 20cm to 0 cm, with step is 2cm used to test. The worst case values reported.

4.3 Test result

Test Mode	Distance (cm)	Position	Max. H-Field Strength (A/m)	Max. E-Field Strength (V/m)	Results
Standby	0	Top	0.118	0.863	PASS
		Bottom	0.072	0.534	PASS
		Front	0.855	1.175	PASS
		Rear	0.648	0.597	PASS
		Left	0.065	0.391	PASS
		Right	0.125	0.783	PASS

Test Mode	Distance (cm)	Position	Max. H-Field Strength (A/m)	Max. E-Field Strength (V/m)	Results
Charging	0	Top	0.097	0.400	PASS
		Bottom	0.115	0.417	PASS
		Front	0.642	0.659	PASS
		Rear	0.512	0.540	PASS
		Left	0.053	0.398	PASS
		Right	0.055	0.398	PASS

Test distance=0 cm

5 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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