EN IEC 62680-1-3 TEST REPORT

Applicant	:	Harman International Industries, Inc.
Address of Applicant	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Manufacturer	:	Harman International Industries, Inc.
Address of Manufacturer	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	PORTABLE BLUETOOTH SPEAKER
Model No.	:	GO5, GO5D
Test Standard(s)	:	EN IEC 62680-1-3:2022
Report No.	:	DDT-RE25091711-1E05
Issue Date	:	2025/11/03
Issued By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Address of Manufacturer	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

Test Standard Used:

EN IEC 62680-1-3:2022

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25091711-1E05		
Date of Receipt:	2025/09/28	**Date of Test:**	2025/09/28~2025/10/24

Created: Bobo Chen	Reviewed: Zoe Peng	Approved: Damon Hu
Bobo Chen	zoe peng	GUANGDONG DONGDIAN TESTING SERVICE CO.,LTD. 广东东电检测技术有限公司 Certificate and Report Seal 检验检测专用章
2025/10/24	2025/11/03	2025/11/03

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/11/03	Damon Hu

1. General Test Information

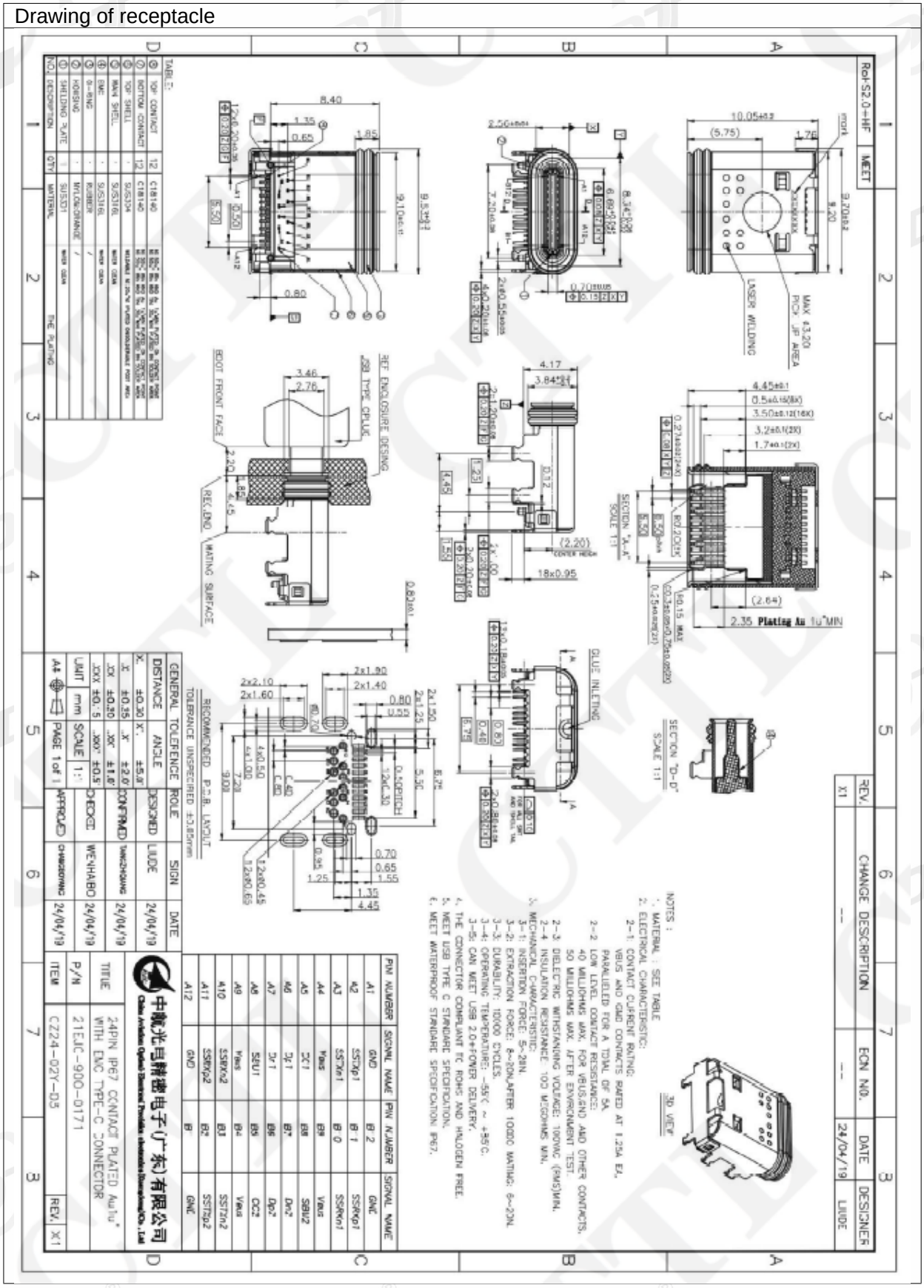
1.1. Description of EUT

EUT Name	:	PORTABLE BLUETOOTH SPEAKER
Model Number	:	GO5, GO5D
Difference of model number	:	Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model GO5D
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 5V/1.0A from external AC Adapter DC 3.85V 1000mAh Polymer Li-ion built-in battery
Hardware Version	:	VerD
Software Version	:	v25.38.12

Critical components Information				
	Manufacturer	Model	Technical data	Standard
Type-C receptacle	China Aviation Optical-Electrical Precision Electronics(Guangdong)Co., Ltd.	21EJ0-900-0171	Number of pins: 24	USB IF TID: 11425 EN IEC 62680-1-3:2022 Test report 24B01N001056-002-COM by SAICT, Shenzhen Academy of Information and Communications Technology

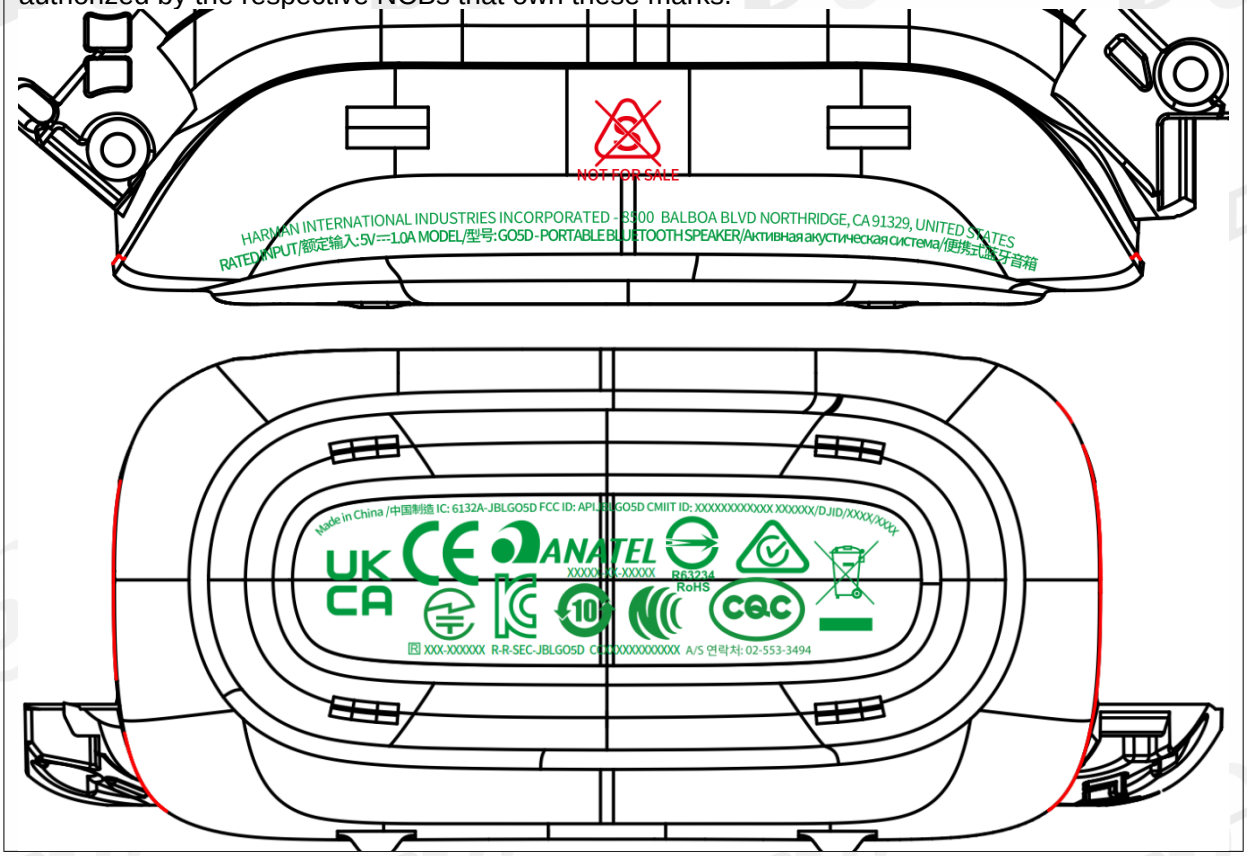
The Type-C receptacle is 24 pins as below figure:											
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Drawing of receptacle



Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



1.2. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2. Compliance of EN IEC 62680-1-3:2022

2.1. Assess result

Clause	Requirement	Remark	Verdict
2	**Overview**		Pass
2.1	Introduction		Pass
2.2	USB Type-C Receptacles, Plugs and Cables	Approved 24-pin type-C receptacle used, see **Critical components** for details	Pass
2.3	Configuration Process	Type-C Functional Test Result as below	Pass
2.3.1	Source-to-Sink Attach/Detach Detection		Pass
2.3.2	Plug Orientation/Cable Twist Detection		Pass
2.3.3	Initial Power (Source-to-Sink) Detection and Establishing the Data (Host-to-Device) Relationship		Pass
2.3.4	USB Type-C V_{BUS} Current Detection and Usage		Pass
2.3.5	USB PD Communication	Type-C Functional Test Result as below	Pass
2.3.6	Functional Extensions		N/A
2.4	V_{BUS}	Default USB power level, 1.5A and 3A considered.	Pass
2.5	V_{CONN}		N/A
2.6	Hubs		N/A
3	**Mechanical**		Pass
3.1	Overview		Pass
3.1.1	Compliant Connectors		Pass
3.1.2	Compliant Cable Assemblies		N/A
3.1.3	Compliant USB Type-C to Legacy Cable Assemblies		N/A
3.1.4	Compliant USB Type-C to Legacy Adapter Assemblies		N/A
3.2	USB Type-C Connector Mating Interfaces	Approved receptacle used, see Critical components for details	Pass
3.2.1	Interface Definition		Pass
3.2.2	Reference Designs		Pass
3.2.3	Pin Assignments and Descriptions		Pass
3.3	Cable Construction and Wire Assignments		N/A
3.3.1	Cable Construction (Informative)		N/A
3.3.2	Wire Assignments		N/A
3.3.3	Wire Gauges and Cable Diameters (Informative)		N/A
3.4	Standard USB Type-C Cable Assemblies		N/A
3.4.1	USB Full-Featured Type-C Cable Assembly		N/A
3.4.2	USB 2.0 Type-C Cable Assembly		N/A
3.4.3	USB Type-C Captive Cable Assemblies		N/A
3.4.4	USB Type-C Thumb Drive Assemblies		N/A
3.5	Legacy Cable Assemblies		N/A
3.5.1	USB Type-C to USB 3.1 Standard-A Cable Assembly		N/A

Clause	Requirement	Remark	Verdict
3.5.2	USB Type-C to USB 2.0 Standard-A Cable Assembly		N/A
3.5.3	USB Type-C to USB 3.1 Standard-B Cable Assembly		N/A
3.5.4	USB Type-C to USB 2.0 Standard-B Cable Assembly		N/A
3.5.5	USB Type-C to USB 2.0 Mini-B Cable Assembly		N/A
3.5.6	USB Type-C to USB 3.1 Micro-B Cable Assembly		N/A
3.5.7	USB Type-C to USB 2.0 Micro-B Cable Assembly		N/A
3.6	Legacy Adapter Assemblies		N/A
3.6.1	USB Type-C to USB 3.1 Standard-A Receptacle Adapter Assembly		N/A
3.6.2	USB Type-C to USB 2.0 Micro-B Receptacle Adapter Assembly		N/A
3.7	Electrical Characteristics		N/A
3.7.1	Raw Cable (Informative)		N/A
3.7.2	USB Type-C to Type-C Passive Cable Assemblies (Normative)		N/A
3.7.3	Mated Connector (Informative – USB 3.2 Gen2 and USB4 Gen2)		N/A
3.7.4	Receptacle Connector SI Requirements and Testing (Normative –USB4 Gen3)		N/A
3.7.5	USB Type-C to Legacy Cable Assemblies (Normative)		N/A
3.7.6	USB Type-C to USB Legacy Adapter Assemblies (Normative)		N/A
3.7.7	Shielding Effectiveness Requirements (Normative)		N/A
3.7.8	DC Electrical Requirements (Normative)	Approved connector used	N/A
3.8	Mechanical and Environmental Requirements	Approved receptacle used, see Critical components for details	N/A
3.8.1	Mechanical Requirements		N/A
3.8.2	Environmental Requirements		N/A
3.9	Docking Applications (Informative)		N/A
3.10	Implementation Notes and Design Guides	Approved receptacle used, see Critical components for details	N/A
3.10.1	EMC Management (Informative)		N/A
3.10.2	Stacked and Side-by-Side Connector Physical Spacing (Informative)		N/A
3.10.3	Cable Mating Considerations (Informative)		N/A
3.11	Extended Power Range (EPR) Cables		N/A
3.11.1	Electrical Requirements		N/A
3.11.2	EPR Cable Identification Requirements		N/A
4	**Functional**		Pass
4.1	Signal Summary		---
4.2	Signal Pin Descriptions		---
4.2.1	SuperSpeed USB Pins		N/A
4.2.2	USB 2.0 Pins		N/A

Clause	Requirement	Remark	Verdict
4.2.3	Auxiliary Signal Pins		N/A
4.2.4	Power and Ground Pins		Pass
4.2.5	Configuration Pins		Pass
4.3	Sideband Use (SBU)		N/A
4.4	Power and Ground		Pass
4.4.1	IR Drop		N/A
4.4.2	V_{BUS}		Pass
4.4.3	V_{CONN}		N/A
4.5	Configuration Channel (CC)	Type-C Functional Test as below	Pass
4.5.1	Architectural Overview		Pass
4.5.2	CC Functional and Behavioral Requirements		Pass
4.5.3	USB Port Interoperability Behavior		Pass
4.6	Power	Type-C Functional Test as below	Pass
4.6.1	Power Requirements during USB Suspend		Pass
4.6.2	V_{BUS} Power Provided Over a USB Type-C Cable		Pass
4.7	USB Hubs		N/A
4.8	Power Sourcing and Charging	Sink only	Pass
4.8.1	DFP as a Power Source		Pass
4.8.2	Non-USB Charging Methods		Pass
4.8.3	Sinking Host		N/A
4.8.4	Sourcing Device		N/A
4.8.5	Charging a System with a Dead Battery		Pass
4.8.6	USB Type-C Multi-Port Chargers		N/A
4.9	Electronically Marked Cables		N/A
4.9.1	Parameter Values		N/A
4.9.2	Active Cables		N/A
4.10	V_{CONN}-Powered Accessories (VPAs) and V_{CONN}- Powered USB Devices (VPDs)		N/A
4.10.1	V_{CONN}-Powered Accessories (VPAs)		N/A
4.10.2	V_{CONN}-Powered USB Devices (VPDs)		N/A
4.11	Parameter Values		Pass
4.11.1	Termination Parameters		Pass
4.11.2	Timing Parameters		Pass
4.11.3	Voltage Parameters		Pass
5	**USB4 Discovery and Entry**		N/A
5.1	Overview of the Discovery and Entry Process	No USB4	N/A
5.2	USB4 Functional Requirements		N/A
5.2.1	USB4 Host Functional Requirements		N/A
5.2.2	USB4 Device Functional Requirements		N/A
5.2.3	USB4 Alternate Mode Support		N/A
5.2.3.1	USB4 Alternate Mode Support on Hosts		N/A
5.2.3.2	USB4 Alternate Mode Support on Hubs and USB4- based Docks		N/A
5.3	USB4 Power Requirements		N/A

Clause	Requirement	Remark	Verdict

5.3.1	Source Power Requirements		N/A
5.3.2	Sink Power Requirements		N/A
5.3.3	Device Power Management Requirements		N/A
5.4	USB4 Discovery and Entry Flow Requirements		N/A
5.4.1	USB Type-C Initial Connection		N/A
5.4.2	USB Power Delivery Contract		N/A
5.4.3	USB4 Discovery and Entry Flow		N/A
5.4.3.1	USB4 Device Discovery (SOP)		N/A
5.4.3.2	USB4 Cable Discovery (SOP')		N/A
5.4.3.3	USB4 Operational Entry		N/A
5.4.4	USB4 Post-Entry Operation		N/A
5.4.4.1	During USB4 Operation		N/A
5.4.4.2	Exiting USB4 Operation		N/A
5.5	USB4 Hub Connection Requirements		N/A
5.5.1	USB4 Hub Port Initial Connection Requirements		N/A
5.5.2	USB4 Hub UFP and Host Capabilities Discovery		N/A
5.5.3	Hub DFP Connection Requirements		N/A
5.5.3.1	Speculative Connections		N/A
5.5.3.2	Operational Connections		N/A
5.5.4	Hub Ports Connection Behavior Flow Examples		N/A
5.5.5	Connecting to Downstream USB4 Hubs		N/A
5.5.6	Fallback Functional Requirements for USB4 Hubs		N/A
5.6	USB4 Device Connection Requirements		N/A
5.6.1	Fallback Mapping of USB4 Peripheral Functions to USB Device Class Types		N/A
5.7	Parameter Values		N/A
5.7.1	Timing Parameters		N/A
6	**Active Cables**		N/A
6.1	USB Type-C State Machine	No active cable	N/A
6.2	USB PD Requirements		N/A
6.2.1	Active Cable USB PD Requirements		N/A
6.2.2	USB PD Messages for OIAC		N/A
6.2.3	Short Active Cable Behaviors in Response to Power Delivery Events		N/A
6.3	OIAC Connection Flow and State Diagrams		N/A
6.3.1	OIAC Connection Flow – Discovery – Phase 1		N/A
6.3.2	OIAC Connection Flow – Reboot – Phase 2		N/A
6.3.3	OIAC Connection Flow – Configuration – Phase 3		N/A
6.3.4	OIAC Connection State Diagram Plug-A		N/A

Clause	Requirement	Remark	Verdict
6.3.5	OIAC Connection State Diagram Plug-B		N/A

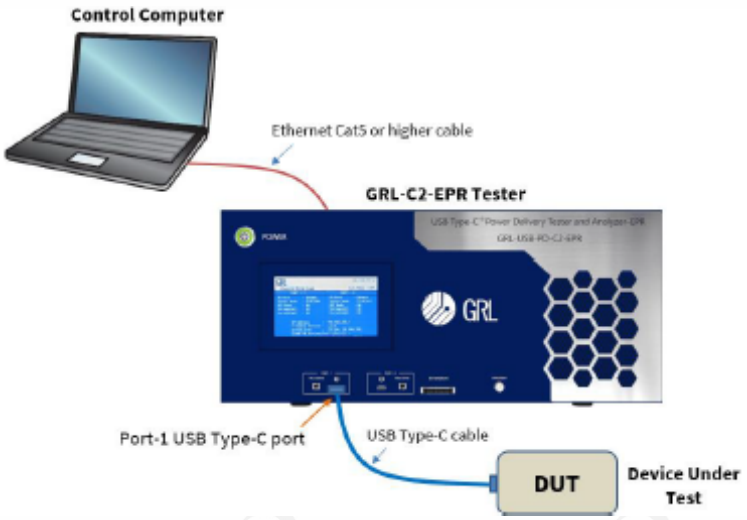
6.4	Active Cable Power Requirements		N/A
6.4.1	V_{BUS} Requirements		N/A
6.4.2	OIAC V_{BUS} Requirements		N/A
6.4.3	USB PD Rules in Active State		N/A
6.4.4	V_{CONN} Requirements		N/A
6.5	Mechanical		N/A
6.5.1	Thermal		N/A
6.5.2	Plug Spacing		N/A
6.6	Electrical Requirements		N/A
6.6.1	Shielding Effectiveness Requirement		N/A
6.6.2	Low Speed Signal Requirement		N/A
6.6.3	USB 2.0		N/A
6.6.4	USB 3.2		N/A
6.6.5	USB4		N/A
6.6.6	Return Loss		N/A
6.7	Active Cables That Support Alternate Modes		N/A
6.7.1	Discover SVIDs		N/A
6.7.2	Discover Modes		N/A
6.7.3	Enter/Exit Modes		N/A
6.7.4	Power in Alternate Modes		N/A

3. Type-C Functional Test Results

3.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
USB Type-C™ Power Delivery Tester-EPR	GRL	GRL-USB-PD-C2-EPR	GRL-C2-EPR-2022115	2026/06/01

3.2. Block diagram of test setup



3.3. Limits

Compliance of EN IEC 62680-1-3:2022 clause 4

3.4. Test procedure

(1) Vendor Information File (VIF) is provided by Vendor.
(2) Load DUT's XML VIF File.
(3) Select the cable that connects the primary port of the DUT to Port-1 of the GRL- C2-EPR tester hardware.
(4) Run tests and generate test reports.

3.5. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	2# Shield Room
Ambient Condition:	25.3 ℃, 42.5%RH	Test Date:	2025/9/28
Review By:	Ella Gong	Sample Number:	S25091711-012

No	Test ID	Test Name	Reference spec.	Test Result
1	TD.4.11.2	TD.4.11.2 Sink Dead Battery Test	EN IEC62680-1-3 Chapter 4.5, 4.8	PASS
2	TD.4.1.1	TD.4.1.1 Initial Voltage Test	EN IEC62680-1-3 Chapter 4.5	PASS
3	TD.4.2.1	TD.4.2.1 Source Connect Sink Test	EN IEC62680-1-3 Chapter 4.11	NA
4	TD.4.2.2	TD.4.2.2 Source Connect SNKAS Test	EN IEC62680-1-3 Chapter 4.5, 4.9	NA
5	TD.4.2.3	TD.4.2.3 Source Connect DRP	EN IE62680-1-3 Chapter 4.5	NA
6	TD.4.2.4	TD.4.2.4 Source Connect Try SRC DRP	EN IEC62680-1-3 Chapter 4	NA
7	TD.4.2.5	TD.4.2.5 Source Connect Try SNK DRP	EN IEC62680-1-3 Chapter 4	NA
8	TD.4.2.6	TD.4.2.6 Source Connect Audio Accessory	EN IEC62680-1-3 Chapter 4.5	NA
9	TD.4.2.7	TD.4.2.7 Source Connect DebugAccessory	EN IEC62680-1-3 Chapter 4.5	NA
10	TD.4.2.8	TD.4.2.8 Source Connect Vconn Accessory	EN IEC62680-1-3 Chapter 4.5	NA
11	TD.4.3.1	TD.4.3.1 Sink Connect Source Test	EN IEC62680-1-3 Chapter 4.5	PASS
12	TD.4.3.2	TD.4.3.2 Sink Connect DRP Test	EN IEC62680-1-3 Chapter 4.5	PASS
13	TD.4.3.3	TD.4.3.3 Sink Connect Try SRC DRP Test	EN IEC62680-1-3 Chapter 4	PASS
14	TD.4.3.4	TD.4.3.4 Sink Connect Try SNK DRP Test	EN IEC62680-1-3 Chapter 4	PASS
15	TD.4.3.5	TD.4.3.5 Sink.Connect.SNKAS.Test	EN IEC62680-1-3 Chapter 4.10	NA
16	TD.4.3.6	TD.4.3.6 Sink.Connect.Accessories.Test	EN IEC62680-1-3 Chapter 4	PASS
17	TD.4.4.1	TD.4.4.1 SNKAS Connect Source Test	EN IEC62680-1-3 Chapter 4.5	NA
18	TD.4.4.2	TD.4.4.2 SNKAS Connect DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
19	TD.4.4.3	TD.4.4.3 SNKAS Connect Try SRC DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
20	TD.4.4.4	TD.4.4.4 SNKAS Connect Try SNK DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
21	TD.4.4.5	TD.4.4.5 SNKAS Connect SNKAS Test	EN IEC62680-1-3 Chapter 4.5	NA
22	TD.4.4.6	TD.4.4.6 SNKAS Connect Audio Acc	EN IEC62680-1-3 Chapter 4.5	NA
23	TD.4.4.7	TD.4.4.7 SNKAS Connect Debug Accessory	EN IEC62680-1-3 Chapter 4.5	NA

No	Test ID	Test Name	Reference spec.	Test Result
24	TD.4.4.8	TD.4.4.8 SNKAS Connect PoweredAcc	EN IEC62680-1-3 Chapter 4.5	NA
25	TD.4.5.1	TD.4.5.1 DRP Connect Sink Test	EN IEC62680-1-3 Chapter 4.5, 4.8	NA
26	TD.4.5.2	TD.4.5.2 DRP Connect SNKAS Test	EN IEC62680-1-3 Chapter 4, 6	NA
27	TD.4.5.3	TD.4.5.3 DRP Connect Source Test	EN IEC62680-1-3 Chapter 4.5, 4.8	NA
28	TD.4.5.4	TD.4.5.4 DRP Connect DRP Test	EN IEC62680-1-3 Chapter 4.5, 4.8	NA
29	TD.4.5.5	TD.4.5.5 DRP Connect Try SRC DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
30	TD.4.5.6	TD.4.5.6 DRP Connect Try SNK DRP Test	EN IEC62680-1-3 Chapter 4	NA
31	TD.4.6.1	TD.4.6.1 Try SRC DRP Connect Source Test	EN IEC62680-1-3 Chapter 4	NA
32	TD.4.6.2	TD.4.6.2 Try SRC DRP Connect DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
33	TD.4.6.3	TD.4.6.3 Try SRC DRP Connect Try SRC DRP Test	EN IEC62680-1-3 Chapter 4	NA
34	TD.4.6.4	TD.4.6.4 Try SRC DRP Connect Try SNK DRP Test	EN IEC62680-1-3 Chapter 4	NA
35	TD.4.6.5	TD.4.6.5 Try SRC DRP Connect Sink Test	EN IEC62680-1-3 Chapter 4.4, 4.5, 4.6	NA
36	TD.4.6.6	TD.4.6.6 Try SRC DRP Connect SNKAS Test	EN IEC62680-1-3 Chapter 4	NA
37	TD.4.7.1	TD.4.7.1 Try SNK DRP Connect Source Test	EN IEC62680-1-3 Chapter 4.5	NA
38	TD.4.7.2	TD.4.7.2 Try SNK DRP Connect DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
39	TD.4.7.3	TD.4.7.3 Try SNK DRP Connect Try SRC DRP Test	EN IEC62680-1-3 Chapter 4.5	NA
40	TD.4.7.4	TD.4.7.4 Try SNK DRP Connect Try SNK DRP Test	EN IEC62680-1-3 Chapter 4	NA
41	TD.4.7.5	TD.4.7.5 Try SNK DRP Connect Sink Test	EN IEC62680-1-3 Chapter 4	NA
42	TD.4.7.6	TD.4.7.6 Try SNK DRP Connect SNKAS Test	EN IEC62680-1-3 Chapter 4	NA
43	TD.4.8.1	TD.4.8.1 DRP Connect Audio Acc Test	EN IEC62680-1-3 Chapter 4.5	NA
44	TD.4.8.2	TD.4.8.2 DRP Connect Debug Acc Test	EN IEC62680-1-3 Chapter 4.5	NA
45	TD.4.8.3	TD.4.8.3 DRP Connect Vconn Accessory Test	EN IEC62680-1-3 Chapter 4.5	NA
46	TD.4.9.1	TD.4.9.1 Source Suspend Test	EN IEC62680-1-3 Chapter 4.6	NA
47	TD.4.9.2	TD.4.9.2 USB Type C Current Advertisement Test	EN IEC62680-1-3 Chapter 4.6, 4.7, 4.8	NA
48	TD.4.9.3	TD.4.9.3 Source PR Swap Test	EN IEC62680-1-3 Chapter 4.5	NA
49	TD.4.9.4	TD.4.9.4 Source Vconn Swap Test	EN IEC62680-1-3 Chapter 4	NA
50	TD.4.9.5	TD.4.9.5 Source Alternate Mode Test	EN IEC62680-1-3 Chapter 4	NA

No	Test ID	Test Name	Reference spec.	Test Result
51	TD.4.10.1	TD.4.10.1 Sink Power Sub States Test	EN IEC62680-1-3 Chapter 4.4, 4.5, 4.6	PASS
52	TD.4.10.2	TD.4.10.2 Sink Power Precedence Test	EN IEC62680-1-3 Chapter 4	PASS
53	TD.4.10.3	TD.4.10.3 Sink Suspend Test	EN IEC62680-1-3 Chapter 4.5	NA
54	TD.4.10.4	TD.4.10.4 Sink PR Swap Test	EN IEC62680-1-3 Chapter 4.5	NA
55	TD.4.10.5	TD.4.10.5 Sink.VCONN Swap Test	EN IEC62680-1-3 Chapter 4.5	NA
56	TD.4.10.6	TD.4.10.6 Sink Alternate Mode Test	EN IEC62680-1-3 Chapter 4	NA
57	TD.4.11.1	TD.4.11.1 DR Swap Test	EN IEC62680-1-3 Chapter 4	NA
58	TD.4.12.2	TD.4.12.2 Hub Port Types Test	EN IEC62680-1-3 Chapter 4	NA
59	TD.4.1.2	TD.4.1.2 Unpowered CC Voltage Test	EN IEC62680-1-3 Chapter 4.5	NA

4. Test Setup Photograph

5. Photos of the EUT

Please refer to DDT-Q25091711-2E appendix I

----------End Report----------