Test Report

Report No.: CQASZ170401373E-06

Test Description:	**Bluetooth Profile Interoperability Test Report for HSP**
Product/Design Name:	**BLUETOOTH® HEADSET**
Product/Design ID:	**S570, Sxy0(x=5~6,y=0~9), Kx,(x=1~30), S530PLUS , S8xy,(x=0~3,y=0~9), Xy,(y=6~30), S520-TWS，S530PLUS-TWS, S560-TWS, S570-TWS, S590-TWS, Xz-TWS,(z=5~20), EW-BE002, EW-BE010, EW-BE011, EW-BE013, EW-ZR030**
Trademark:	
Applicant:	**Shenzhen KeYueDuo Intelligent Electronics Co., Ltd.**
Manufacturer:	**Shenzhen KeYueDuo Intelligent Electronics Co., Ltd.**
Test Specification:	**Bluetooth Profile Specification Version 1.2 - Headset Profile** **Bluetooth Headset Profile (HSP) Test Specification: HSP.TS/1.2.9**

Sean Zhang

Test Engineer's Signature.....

Test Engineer Sean Zhang

Test Reviewer's Signature.....

Test Reviewer Solar Li

Bluetooth® Profile Interoperability Test Report

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1 General Information

1.1 General

1.1.1 Administrative data of Test Facility

Test Facility	Shenzhen Centre Quality Accreditation Technology Co., Ltd.
Test Facility Address	1 F., Block B of Complex Building, Baisha Logistics Park, No. 3011 Shahe West Road, Nanshan District, Shenzhen, China
Phone Number	+86-755-26648640
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Contact Person	Mr. Owen Zhou

1.1.2 Administrative data of Applicant

Applicant: Shenzhen KeYueDuo Intelligent Electronics Co., Ltd.

Applicant Address: F-4, Bldg.A, LiJiaFa Ind. Garden, XinTang Ind. Area, BaiShiXia E., FuYong Sub-dist., Bao'an Dist., Shenzhen, Guangdong, China

Responsible Person: Ruizhi Yang

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1.1.3 Administrative data of EUT Manufacturer

EUT Manufacturer: Shenzhen KeYueDuo Intelligent Electronics Co., Ltd.

Manufacturer Address: F-4, Bldg.A, LiJiaFa Ind. Garden, XinTang Ind. Area, BaiShiXia E., FuYong Sub-dist., Bao'an Dist., Shenzhen, Guangdong, China

Responsible Person: Ruizhi Yang

Phone Number : +86 18033442650

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1.2 Description of EUT

Product name: BLUETOOTH® HEADSET

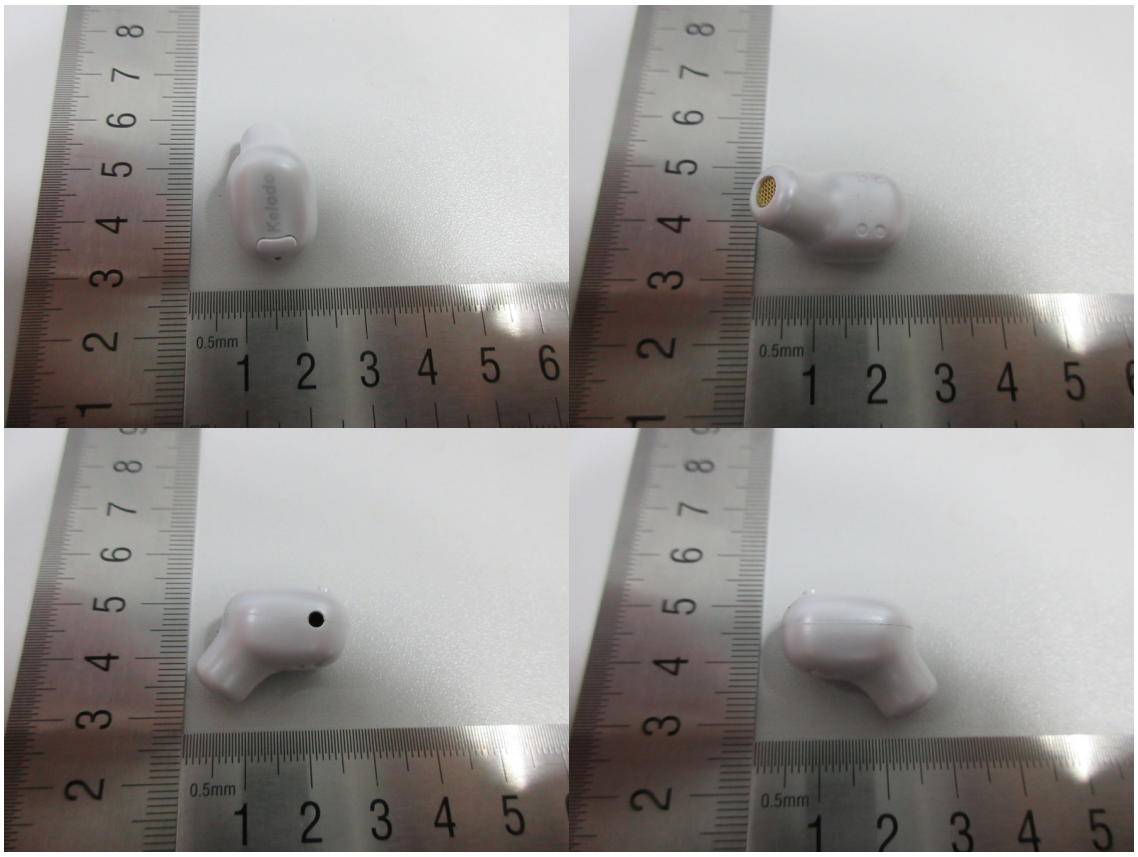
Product description: BLUETOOTH® HEADSET

Product ID/Model: S570, Sxy0(x=5~6,y=0~9), Kx,(x=1~30), S530PLUS , S8xy,(x=0~3,y=0~9), Xy,(y=6~30), S520-TWS，S530PLUS-TWS, S560-TWS, S570-TWS, S590-TWS, Xz-TWS,(z=5~20), EW-BE002, EW-BE010, EW-BE011, EW-BE013, EW-ZR030

Hardware Version: V1.1

Software Version: V1.1

Photos of Product:

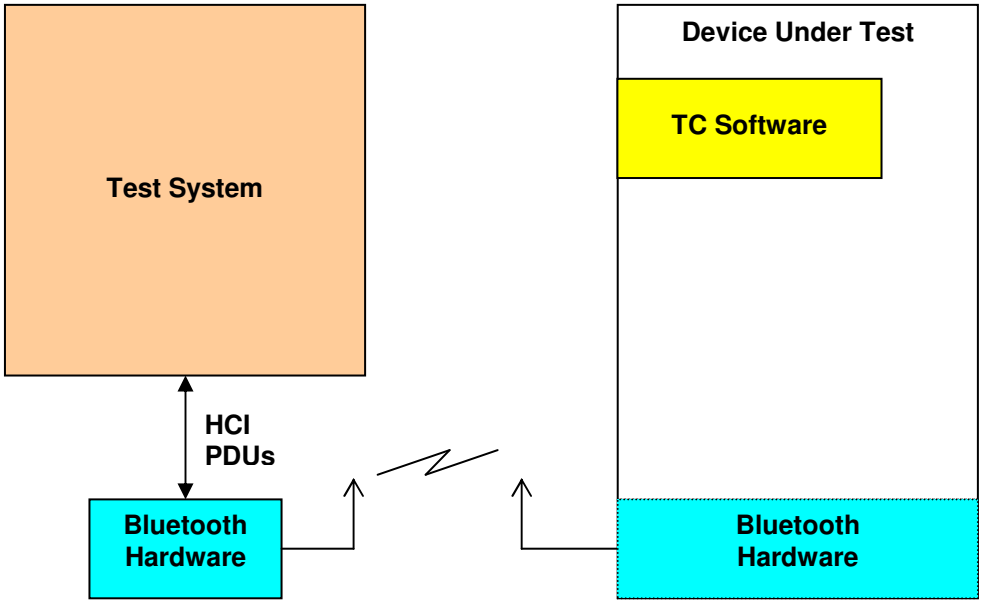


2 Summary List of All Test Cases

Headset Profile				
No	**TC identifier**	**Description**	**Verdict**	**Remark**
1	TP/IAC/BV-01-I	Inc Connect establ – AG	Pass	Refer to PTS
2	TP/IAC/BV-02-I	Inc Connect establ – inband ring	Pass	Refer to PTS
3	TP/OAC/BV-01-I	Outg Connect establ – HS	Pass	Refer to PTS
4	TP/ACR/BV-01-I	Connect release – HS	Pass	Refer to PTS
5	TP/ACR/BV-02-I	Connect release – AG	Pass	Refer to PTS
6	TP/ACT/BV-01-I	Connect transfer – HS initiated	Pass	Refer to PTS
7	TP/ACT/BV-02-I	Connect transfer – AG initiated	Pass	Refer to PTS
8	TP/RAV/BV-01-I	Speaker vol ctrl – remote/local	Pass	Refer to PTS
9	TP/RAV/BV-02-I	Speaker vol ctrl – remote	Pass	Refer to PTS
10	TP/RAV/BV-03-I	Speaker vol ctrl – store settings	Pass	Refer to PTS
11	TP/RAV/BV-04-I	Micro gain ctrl – remote/local	N/A	
12	TP/RAV/BV-05-I	Micro gain ctrl – remote	N/A	
13	TP/RAV/BV-06-I	Micro gain ctrl – store settings	N/A	

3 Profile Testing

3.1 Description of Test Set-up



The Test System PTS for Bluetooth is running on a PC System.

The test system communicates with the Bluetooth Hardware via an HCI connection.

The tests are performed as remote tests and all communication between the Test System and the DUT is done via the radio interface.

3.2 List of Performed Test Cases

Profile: HSP **Role:** ☒ Headset Unit ☐ Audio Gateway

TC-Identifier	Final Verdict	Date of Test
TP/ACR/BV-01-I	Pass	2017-05-09
TP/ACR/BV-02-I	Pass	2017-05-09
TP/ACT/BV-01-I	Pass	2017-05-09
TP/ACT/BV-02-I	Pass	2017-05-09
TP/IAC/BV-01-I	Pass	2017-05-09
TP/IAC/BV-02-I	Pass	2017-05-09
TP/OAC/BV-01-I	Pass	2017-05-09

3.3 Referenced Documents

Document Name	Version	Issue Date
Bluetooth Headset Profile Specification	V1.2	18 Dec 2008
Headset Profile (HSP) Test Specification 1.1-1.2 Test Suite Structure (TSS) and Test Purposes (TP)	HSP.TS.1.2.10	13 Dec 2016
ICS Proforma for Headset Profile (HSP) Specification 1.1-1.2	HSP.ICS.1.2.5	03 Dec 2013
Test Case Reference List	2016-2	13 Dec 2016

3.4 Additional Information

The test results presented in this test report apply only to the particular implementation under test (IUT) Declared in clause 1.2 of this report, for the functionality described in the relevant Protocol Implementation Statement (PICS), as presented for test on the date(s) declared in the relevant Protocol Implementation Extra Information for testing (PIXIT).

This test report does not constitute or imply, by its own, to be an approval of the product by Qualification Bodies, Certification Bodies or competent Authorities.

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Abbreviations in this report:

OK, Pass, P	=	passed
F	=	failed
N/A	=	not applicable
NT	=	not tested
EUT	=	equipment under test

Explanation of model designation:

The applicant declared that models S570, Sxy0(x=5~6,y=0~9), Kx,(x=1~30), S530PLUS , S8xy,(x=0~3,y=0~9), Xy,(y=6~30), S520-TWS，S530PLUS-TWS, S560-TWS, S570-TWS, S590-TWS, Xz-TWS,(z=5~20), EW-BE002, EW-BE010, EW-BE011, EW-BE013 and EW-ZR030 are identical in both design and implementation and differ only by non-functional characteristics. Tested model is S570.

3.5 Test Sample Information

The following sample was used for testing.

Sample No	Serial No/BT address	Date Of Reception
SZCR170508-01	0011671165DC	2017-05-08

3.6 List of Test Equipments

Profile Tuning Suite: PTS v. 7.0.0
HSP-ETS v. 10.0.0.70

EZURIO 4.0 PTS Dongle

Annex 1 Profile Implementation Conformance Statement

TABLE OF CONTENTS

Roles
Errata Service Releases
Audio Gateway Application Features
Headset Application Features

Roles [top]

Table 0: Versions

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Headset Profile v1.1	HSP, 2.2	C.1	○ ●
2	Headset Profile v1.2	HSP, 2.2	C.1	● ○

C.1: It is mandatory to support only one of these versions.

Table 1: Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Audio Gateway (AG)	HSP, 2.2	C.1	○ ●
2	Headset (HS)	HSP, 2.2	C.1	● ○

C.1 Mandatory to Support at least One of the defined roles.

Table 3: Application features (HS)

Prerequisite HSP:1/2

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Incoming audio connection establishment	HSP, 4.2	M	◉ ○
2	Ring (AT command)	HSP, 4.2	M	◉ ○
3	Inband ring tone	HSP, 4.2	M	◉ ○
4	Outgoing audio connection establishment	HSP, 4.3	M	◉ ○
5	Audio connection release from HS	HSP, 4.4	M	◉ ○
6	Audio connection release from AG	HSP, 4.4	M	◉ ○
7	Audio connection transfer: AG to HS	HSP, 4.5.1	M	◉ ○
8	Audio connection transfer: HS to AG	HSP, 4.5.2	M	◉ ○
9	Remote audio volume control	HSP, 4.6	C.1	○ ◉
10	HS informs AG about local changes of audio volume	HSP, 4.6	O	○ ◉
11	Audio volume setting storage by HS	HSP, 4.6	O	○ ◉
12	Remote microphone gain control	SP, 4.6	C.2	○ ◉
13	HS informs AG about local changes of microphone gain	HSP, 4.6	O	○ ◉
14	Microphone gain setting storage by HS	HSP, 4.6	O	○ ◉
15	Connection handling with Detach/Page	HSP, 4.8.1	M	◉ ○
16	Connection handling with Park Mode	HSP, 4.8.2	C.3	○ ◉

C.1: Mandatory IF HSP 3/10 is Supported, otherwise Optional.
C.2: Mandatory IF HSP 3/13 is Supported, otherwise Optional.
C.3: Excluded if HSP 0/2 is supported; otherwise optional.

Table 4: Errata Service Releases

Prerequisite: 0/1

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	E2112/TSE 1134 (212): Show that in-band ringing and RING are mutually exclusive	ESR 1	C.1	○ ◉

Note: ESR1 refers ro the Errata Service Release 1 v 1.02, released 25 August 2003
C.1 Excluded if HSP 0/2 is supported; otherwise optional.

Annex 2 Test plan generated by TPG

Test Cases for HSP			
TP/ACR/BV-01-I	Connect release - HS	HSP.TS.1.2.10	A
TP/ACR/BV-02-I	Connect release - AG	HSP.TS.1.2.10	A
TP/ACT/BV-01-I	Connect transfer - HS initiated	HSP.TS.1.2.10	A
TP/ACT/BV-02-I	Connect transfer - AG initiated	HSP.TS.1.2.10	A
TP/IAC/BV-01-I	Inc Connect establ - AG	HSP.TS.1.2.10	A
TP/IAC/BV-02-I	Inc Connect establ - inband ring	HSP.TS.1.2.10	A
TP/OAC/BV-01-I	Outg Connect establ - HS	HSP.TS.1.2.10	A