

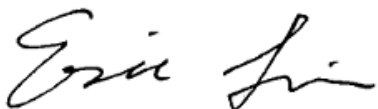
## 1 Cover Page

**RF Exposure Evaluation Report**

**Application No.:** KSEM2111001900CR  
**FCC ID:** GV3M01553  
**Applicant:** ACCO Brands, Inc.  
**Address of Applicant:** 4 Corporate Drive, Lake Zurich, Illinois 60047, USA  
**Manufacturer:** ACCO Brands, Inc.  
**Address of Manufacturer:** 4 Corporate Drive, Lake Zurich, Illinois 60047, USA  
**Factory:** BizLink (Kunshan) Co., Ltd.  
**Address of Factory:** No.168.Nanhe Road,Economic & Technological Development Zone,Kunshan, Jiangsu Province, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Universal 3-in-1 Pro Audio Headset Switch  
**Model No.:** M01553  
**Trade mark:** Kensington  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB447498 D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-11-15  
**Date of Test:** 2021-11-16 to 2021-12-01  
**Date of Issue:** 2021-12-03

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



Eric Lin  
EMC Lab Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-12-03	/

Authorized for issue by:			
		Damon Zhou	
		Damon Zhou / Project Engineer	
		Eric Lin	
		Eric Lin / Reviewer	



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 5V by Adapter
Cable:	2m USB Cable, USB type C to type A female
Serial Number:	Conducted: A12150A000306 Radiated: A12150A000305
Firmware Version:	X06

#### 3.2 Technical Specifications

##### BT

Antenna Gain:	Ant 1: 2.14dBi (Microchip) (Provided by manufacturer) Ant 2: 1.65dBi (Realtek) (Provided by manufacturer)
Antenna Type:	Antenna 1:FPC Antenna Antenna 2:FPC Antenna
Bluetooth Version:	BT 5.0 for Microchip, BT 5.1 for Realtek
Channel Spacing:	1MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)

##### BLE

Antenna Gain:	Ant 1: 2.14dBi (Microchip) (Provided by manufacturer) Ant 2: 1.65dBi (Realtek) (Provided by manufacturer)
Antenna Type:	Antenna 1:FPC Antenna Antenna 2:FPC Antenna
Bluetooth Version:	BT 5.0 for Microchip, BT 5.1 for Realtek
Channel Spacing:	2MHz
Modulation Type:	GFSK
Data Rate:	1Mbps for Microchip, 1Mbps & 2Mbps for Realtek
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz



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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

### 3.4 Test Facility

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

• **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. CAB Identifier: CN0072.

• **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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## 4 Test Standards and Limits

### 4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30



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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

BT for FCC

The Power Data is based on the RF Test Report KSEM211100190001

#### RF Module Microchip

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
GFSK	2402	8.30	6.76
	2441	8.25	6.68
	2480	7.02	5.04
$\pi/4$ DQPSK	2402	9.14	8.20
	2441	9.16	8.24
	2480	6.85	4.84
8DPSK	2402	9.51	8.93
	2441	9.51	<b>8.93</b>
	2480	8.16	6.55

#### RF Module Realtek

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
GFSK	2402	7.22	5.27
	2441	7.96	6.25
	2480	7.53	5.66
$\pi/4$ DQPSK	2402	9.61	9.14
	2441	10.22	10.52
	2480	9.76	9.46
8DPSK	2402	10.01	10.02
	2441	10.67	<b>11.67</b>
	2480	10.18	10.42



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BLE for FCC

The Power Data is based on the RF Test Report KSEM211100190002

**RF Module Microchip**

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
1M	2402	3.38	2.18
	2442	3.67	<b>2.33</b>
	2480	2.51	1.78

**RF Module Realtek**

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
1M	2402	-0.34	0.92
	2442	0.53	1.13
	2480	-0.07	0.98
2M	2402	-0.13	0.97
	2440	0.53	<b>1.13</b>
	2480	-0.03	0.99



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## 5.2 MPE Calculation

According to the formula  $S=P/4\pi R^2$ , we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) MPE limit = 1mW/cm<sup>2</sup>

### For Module Microchip

For BT - Antenna 1:

The max. antenna gain is		2.14	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
8.93	1.637	20	0.00291	1	Pass

For BLE - Antenna 1:

The max. antenna gain is		2.14	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2.33	1.637	20	0.00076	1	Pass

### For Module Realtek

For BT - Antenna 2:

The max. antenna gain is		1.65	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
11.67	1.462	20	0.00339	1	Pass

For BLE - Antenna 2:

The max. antenna gain is		1.65	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
1.13	1.462	20	0.00033	1	Pass



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The Module Microchip and Realtek can simultaneous transmitting, so the maximum rate of MPE is  $0.00291/1.0+0.00339/1.0=0.0060\leq 1.0$ . according to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

**--End of the Report--**



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