Page: 1 of 6

RF Exposure Evaluation Report

Application No.: ZR/2019/A0010 **Applicant:** BLU Products,inc.

Address of Applicant: 10814 NW 33rd St # 100 Doral,FL 33172,USA

Manufacturer: BLU Products,inc.

Address of Manufacturer: 10814 NW 33rd St # 100 Doral,FL 33172,USA

EUT Description:

Model No.:

BLU aria2

BLU aria2

Trade Mark:

Lifestyle

FCC ID: YHLBLUARIA2
Standards: 47 CFR Part 2,1091

FCC KDB 447498 D01 v06

Date of Receipt: 2019/10/21

Date of Test: 2019/10/21to 2019/12/5

 Date of Issue:
 2019/12/6

 Test Result:
 PASS*

Authorized Signature:

Derele yang

Derek Yang Wireless Laboratory Manager



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cr 中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

^{*} In the configuration tested, the EUT complied with the standards specified above.



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZR/2019/A001002

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1 Version

Revision Record									
Version	Chapter	Date	Date Modifier						
00		2019/12/6		Original					

Authorized for issue by:		
	Mike Mu	2019/12/5
	Mike Hu /Project Engineer	
	David Chen	2019/12/5
	David Chen /Reviewer	





SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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2 General Information

2.1 Client Information

Applicant:	BLU Products,inc.
Address of Applicant:	10814 NW 33rd St # 100 Doral,FL 33172,USA
Manufacturer:	BLU Products,inc.
Address of Manufacturer:	10814 NW 33rd St # 100 Doral,FL 33172,USA

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch			
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China			
Post code:	518057			
Telephone:	+86 (0) 755 2601 2053			
Fax:	+86 (0) 755 2671 0594			
E-mail:	ee.shenzhen@sgs.com			

2.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

· VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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2.4 General Description of EUT

EUT Description:	BLU aria2
Model No.:	BLU aria2
Trade Mark:	BLU. Lifestyle
Hardware Version:	v1.0
Software Version:	v1.0
Antenna Gain:	BT: 1.08dBi

3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz) Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposures										
0.3-3.0 614 1.63 *(100)										
3.0-30	1842/f	4.89/f	*(900/f2)	6 6 6						
30-300	61.4	0.163	1.0							
300-1500	/	/	f/300							
1500-100,000	/	/	5	6						
	(B) Limits for General P	opulation/Uncontrolled	Exposure							
0.3-1.34	0.3-1.34 614 1.63 *(100) 30									
1.34-30	824/f	2.19/f	*(180/f2)	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

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).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)



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^{*=}Plane-wave equivalent power density

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Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Output Power (dBm)	Output Power to Antenna (dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)		Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
Bluetooth	2402	1.08	4.28	5.36	20.97	2.6792	0.0007	1.0000	16.69	32.73	16.69	Pass

Remark: Refer to report No. ZR/2019/A001001 for EUT test Max Conducted Output Power value.

