RF EXPOSURE REPORT



Report No.: 17071137-FCC-H2

Supersede Report No.: N/A

Applicant	Kygo Life A	9				
	Kygo Life AS					
Product Name	Wireless he	eadphones				
Model No.	A9-600					
Serial No.	N/A					
Test Standard	FCC 2.109	3:2016				
Test Date	October 28	to November 20, 2017				
Issue Date	November	21, 2017				
Test Result	est Result 🛛 Pass 🖵 Fail					
Equipment complied with the specification						
Equipment did not comply with the specification						
Len Yorg David Huang						
Leen Ya	ng	David Huang				
Test Engineer Checked By						
This test report may be reproduced in full only						
Test result presented in this test report is applicable to the tested sample only						
			•			

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Country/Region	Scope		
USA	EMC, RF/Wireless, SAR, Telecom		
Canada	EMC, RF/Wireless, SAR, Telecom		
Taiwan	EMC, RF, Telecom, SAR, Safety		
Hong Kong	RF/Wireless, SAR, Telecom		
Australia	EMC, RF, Telecom, SAR, Safety		
Korea	EMI, EMS, RF, SAR, Telecom, Safety		
Japan	EMI, RF/Wireless, SAR, Telecom		
Singapore	EMC, RF, SAR, Telecom		
Europe	EMC, RF, SAR, Telecom, Safety		

Accreditations for Conformity Assessment



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1. Report Revision History

Report No.	Report Version	Description	Issue Date		
17071137-FCC-H2	NONE	Original	November 21, 2017		

2. Customer information

Applicant Name	Kygo Life AS
Applicant Add	Sjoyst Plass 3, 0278 Oslo, Norway
Manufacturer	ASKA Electronics Co., Ltd
Manufacturer Add	3F, building 19#, Road Da Ling Bian, Shahu Community, Tangxia Town, Dongguan, China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	outh Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	535293	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT:	Wireless headphones
Main Model:	A9-600
Serial Model:	N/A
Date EUT received:	October 27, 2017
Test Date(s):	October 28 to November 20, 2017
Antenna Gain:	Bluetooth/BLE: 0dBi
Antenna Type:	PCB antenna
Type of Modulation:	Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK
RF Operating Frequency (ies):	Bluetooth& BLE: 2402-2480 MHz
Number of Channels:	Bluetooth: 79CH BLE: 40CH
Port:	USB Port, AUX Port
Input Power:	Battery Model: 502540 Spec: 3.7V, 450mAh, 1.66Wh
Trade Name :	KYGO
FCC ID:	2ANOXA9



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5. <u>FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable</u> devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission' s guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

- $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where
- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

- F= Channel frequency in GHz
- D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

Modulation	СН	Freque ncy	Conducted Power	Tune Up Power	Max Tune Up Power	Max Tune Up Power	Result	Limit
		(MHz)	(dBm)	(dBm)	(dBm)	(mW)		
	Low	2402	8.286	8.5±1	9.5	8.913	2.76	3
GFSK	Mid	2441	8.926	8.5±1	9.5	8.913	2.78	3
	High	2480	9.018	8.5±1	9.5	8.913	2.81	3
π /4 DQPSK	Low	2402	6.993	7.5±1	8.5	7.079	2.19	3
	Mid	2441	7.703	7.5±1	8.5	7.079	2.21	3
	High	2480	7.573	7.5±1	8.5	7.079	2.23	3
8-DPSK	Low	2402	7.247	7.5±1	8.5	7.079	2.19	3
	Mid	2441	7.957	7.5±1	8.5	7.079	2.21	3
	High	2480	7.874	7.5±1	8.5	7.079	2.23	3

BLE Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
	Low	2402	8.135	8±1	9	7.943	2.46	3
GFSK	Mid	2440	8.797	8±1	9	7.943	2.48	3
	High	2480	8.894	8±1	9	7.943	2.50	3

Result: Compliance

No SAR measurement is required.