

FCC RF Exposure

Applicant : ARKTAKE, Inc.
Address : 3-2-5-6F, Takadanobaba, Shinjyuku-ku, Tokyo
Product Name : arkEarphones
Brand Mark : N/A
Model : AK-E01
Series model : N/A
FCC ID : 2BX9A-AKE01
Report Number : BLA-EMC-202608-A14-03
Date of Receipt : Aug. 04, 2026
Date of Test : Aug. 04, 2026 to Aug. 31, 2026
Test Standard : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test Result : Pass

Compiled by: Mark Chen

Review by: Xavier

Approved by:

Issued Date: Aug. 31, 2026



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Table of Contents

1 General information	4
1.1 General information	4
1.2 General description of EUT	4
2 RF Exposure Compliance Requirement	5
2.1 Standard Requirement	5
2.2 Limits	5
2.3 Result	6

Revise Record

Version No.	Date	Description
01	Aug. 31, 2026	Original

1 General information

1.1 General information

Applicant	ARKTAKE, Inc.
Address	3-2-5-6F, Takadanobaba, Shinjyuku-ku, Tokyo
Manufacturer	ARKTAKE, Inc.
Address	3-2-5-6F, Takadanobaba, Shinjyuku-ku, Tokyo
Factory	Huizhou CCA Industrial Co. Ltd.
Address	Section B, 2nd Floor, Section B1, 1st Floor, Section A, 1st-4th Floor, Building A, No. 122, Hongchuan Avenue North, Tongqiao , Zhongkai state, Huizhou city

1.2 General description of EUT

Product name	arkEarphones
Model no.	AK-E01
Operation Frequency:	BT/BLE:2402MHz-2480MHz
Modulation Type:	BLE:GFSK BT:GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	BLE:40 BT:79
Antenna Type:	Chip antenna
Product Type:	Portable
Antenna Gain:	1.95dBi (Provided by customer)
Power supply:	Battery DC 3.7V
Test Voltage:	DC 3.7V
Hardware Version	N/A
Software Version	N/A

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances

≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ 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 ≤ 50 mm and

for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

2.3 Result

1) For BLE 1M(Worst)

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	9.359	9.0±0.5	9.50	8.913
Middle(2442MHz)	9.100	9.0±0.5	9.50	8.913
Highest(2480MHz)	9.107	9.0±0.5	9.50	8.913

2) For BT Classic(Worst)

Measurement Data:

8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.078	0±0.5	0.5	1.122
Middle(2441MHz)	-0.485	0±0.5	0.5	1.122
Highest(2480MHz)	-0.081	0±0.5	0.5	1.122

Separation Distance: 0.5 (cm)

Worst case: BLE 1M						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	9.359	9.0±0.5	9.50	8.913	2.763	3.0
Middle (2442MHz)	9.100	9.0±0.5	9.50	8.913	2.786	
Highest (2480MHz)	9.107	9.0±0.5	9.50	8.913	2.807	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Comply with RF exposure exemption limit.

----END OF REPORT----

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