

TEST REPORT

Product Name : True Wireless earbuds
Brand Mark : KONNEK STEIN, dyplay
Model No. : ePRO-AE05
ePRO-AE05-BK-KS-US、
ePRO-AE05-WH-KS-US、
ePRO-AE05-TL-KS-US、
Extension model : ePRO-AE05-PK-KS-US, YT1104、
YT1104A、YT1104B、YT1104C、YT1104D、
YT1104E、YT1104F、YT1104G、YT1104H
YT1104I、YT1104J
FCC ID : 2A3HS-EARBUDS
Report Number : BLA-EMC-202110-A4303
Date of Sample Receipt : 2021/10/21
Date of Test : 2021/11/2 to 2021/11/2
Date of Issue : 2021/11/2
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

Shenzhen yutian digital Co., Ltd.

2208-A13, Block A, union square, 5022 Binhe Avenue, Fushan Community,

Fukuda Street, Futian District, Shenzhen

Prepared by:

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Date: 2021/11/2



BlueAsia

REPORT REVISE RECORD

Version No.	Date	Description
00	2021/11/2	Original
01	2021/11/10	Model no. from YT1104 to ePRO-AE05

TABLE OF CONTENTS

1	TEST SUMMARY.....	5
2	GENERAL INFORMATION.....	6
3	GENERAL DESCRIPTION OF E.U.T.....	6
4	LABORATORY LOCATION.....	6
5	RF EXPOSURE COMPLIANCE REQUIREMENT.....	7
5.1	STANDARD REQUIREMENT.....	7
5.2	LIMITS.....	7
5.3	EUT RF EXPOSURE.....	7

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	pass

2 GENERAL INFORMATION

Applicant	Shenzhen yutian digital Co., Ltd.
Address	2208 - A13, Block A, union square, 5022 Binhe Avenue, Fushan Community, Fukuda Street, Futian District, Shenzhen
Manufacturer	Shenzhen yutian digital Co., Ltd.
Address	2208 - A13, Block A, union square, 5022 Binhe Avenue, Fushan Community, Fukuda Street, Futian District, Shenzhen
Factory	Shenzhen yutian digital Co., Ltd.
Address	2208 - A13, Block A, union square, 5022 Binhe Avenue, Fushan Community, Fukuda Street, Futian District, Shenzhen
Product Name	True Wireless earbuds
Test Model No.	ePRO-AE05

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	Charging box main board: V1.0 Left earphone motherboard: V1.0 Right earphone motherboard: V1.0
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, p/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Chip Antenna
Antenna Gain:	1.8dBi(Provided by applicant)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 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.

5.2 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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0$$
 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

5.3 EUT RF Exposure

Operational Mode: EDR (8-DPSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	3.489	±1	4.489	2.81	0.87	3.0
2441 MHz	3.061	±1	4.061	2.55	0.80	
2480 MHz	1.408	±1	2.408	1.74	0.55	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----

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