



RF EXPOSURE EVALUATION

FCC ID:2BE9U-AP01

Report Number.....: ZKT-260810L0535E-5

Date of Test.....: July 28, 2026 to Aug. 12, 2026

Date of issue.....: Aug. 12, 2026

Total number of pages.....: 8

Test Result: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: Shenzhen Huadai Technology Co., Ltd

Address: A308, Fuji Industrial Park, No.33 Liuhe Road, Henggang Street, Longgang District, Shenzhen, China

Manufacturer's name: Shenzhen Huadai Technology Co., Ltd

Address: A308, Fuji Industrial Park, No.33 Liuhe Road, Henggang Street, Longgang District, Shenzhen, China

Test specification:

Standard.....: FCC 47CFR §2.1093
KDB 447498 D01 General RF Exposure Guidance v06

Test procedure.....: /

Non-standard test method: N/A

Test Report Form No.....: TRF-EL-111_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF: Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: Smart Watch

Trademark: N/A

Model/Type reference.....: AP01

Ratings.....: Input: DC 5V,0.5A

Output: DC 3.8V,0.2A



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.
Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Jim Liu

Reviewer (name + signature).....: Jackson Fang

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-260810L0535E-5	Rev.01	Initial issue of report	Aug. 12, 2026



2. TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491

Designation Number: CN1431

IC Registered No.: 27033

CAB identifier: CN0110

Designation Number: CN0110



3 GENERAL DESCRIPTION OF EUT

Product Name:	Smart Watch
Trade Mark:	N/A
Model No.:	AP01
Serial No.:	N/A
Model Different.:	N/A
Hardware Version:	V1.0
Software Version:	V1.04
Sample(s) Status:	Engineer sample
Channel numbers:	BT:79 BLE:40 NFC:1
Operation Frequency:	2402MHz~2480MHz
Modulation technology:	BT:GFSK, $\pi/4$ -DQPSK, 8DPSK(3Mbps) BLE:GFSK NFC: ASK
Antenna Type:	BT/BLE: Internal Antenna NFC: PCB Printed Antenna
Antenna gain:	BT/BLE:-0.76dBi NFC: 0dBi
Power Supply:	DC 5V,0.5A
Battery Capacity:	Model: 551820 Brand: N/A Rated Voltage: 3.8V Charge Limit Voltage: 4.35V Capacity: 210mAh Manufacturer: SHENZHEN AB TECHNOLOGY CO.,LTD.

Note1: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Note2: The EUT's all information provided by client.



According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093, 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 Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ 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 calculation

The result is rounded to one decimal place for comparison



Here
NFC

Mode	Power (dBuV/m) @3m	Power (dBm)	Tune up Power
NFC	55.47	-39.73	-39±1dBm

Note: Power(dBm) = dBuV/m@3m -95.2

Mode	Separation distances	Test frequency	Test Separation distances	Max. power of channel, including tune-up tolerance	Power allowed at numeric threshold (Also see Appendix C)	Calc. thresholds	Result
(MHz)	(mm)	(MHz)	(mm)	(mW)	(mW)		
NFC	≤ 50	13.56	5	0.0002	442.97	0.0000004	Pass

For EDR/BLE/

Mode	Frequency (MHz)	Power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Min. Distance (mm)	Calc. thresholds	limit
GFSK	2441	0.56	0±1	1	1.26	5	0.3937	3.0
π/4-DQPSK	2441	0.52	0±1	1	1.26	5	0.3937	3.0
8-DPSK	2441	0.55	0±1	1	1.26	5	0.3937	3.0
GFSK 1M	2480	-0.09	0±1	1	1.26	5	0.3968	3.0
GFSK 2M	2480	-0.08	0±1	1	1.26	5	0.3968	3.0
GFSK S2	2480	-0.07	0±1	1	1.26	5	0.3968	3.0
GFSK S8	2480	-0.11	0±1	1	1.26	5	0.3968	3.0

Multiple transmission:

$$BT+NFC = 0.3968 + 0.0000004 = 0.3968004 < 1$$

Conclusion:

1. $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] < 3.0$.
2. SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore, SAR test is not required.