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RF Exposure Evaluation Report

Report No.: CQASZ20240601021E-03
Applicant: Shenzhen Buzz Tech CO., LTD

Address of Applicant: 10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An

Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Smart watch

Model No.: P114, Y2, P95

Test Model No.: P114

Brand Name: N/A

FCC ID: 2AGFWP114

Standards: 47 CFR Part 1.1307 47 CFR Part 2.1093

KDB447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2024-06-07

Date of Test: 2024-06-07 to 2024-06-19

Date of Issue: 2024-06-25

Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Alex Wang)





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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date	
CQASZ20240601021E-03	Rev.01	Initial report	2024-06-25	





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3 General Information

3.1 Client Information

Applicant:	Shenzhen Buzz Tech CO., LTD		
Address of Applicant:	10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An Shenzhen,Guangdong, China		
Manufacturer:	Shenzhen Buzz Tech CO., LTD		
Address of Manufacturer:	10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An Shenzhen,Guangdong, China		
Factory:	Shenzhen Buzz Tech CO., LTD		
Address of Factory:	10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An Shenzhen,Guangdong, China		

3.2 General Description of EUT

Product Name:	Smart watch
Model No.:	P114, Y2, P95
Test Model No.:	P114
Trade Mark:	N/A
Software Version:	V2.05
Hardware Version:	MOY.MA1053.01
Power Supply:	Li-ion battery: DC 3.7V 260mAh, Charge by DC 5V for adapter
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.☑ Simultaneous TX is not supported.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	0.37dBi

3.4 General Description of BT

Operation Frequency:	2402MHz~2480MHz		
Modulation Type:	GFSK, π/4DQPSK		
Transfer Rate:	1Mbps/2Mbps		
Number of Channel:	79		
Product Type:	☐ Mobile ☐ Portable		
Antenna Type:	FPC antenna		
Antenna Gain:	0.37dBi		



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4 RF Exposure Evaluation

4.1 SAR Evaluation for Portable condition

4.1.1 Standard Requirement

447498 D04 Interim General RF Exposure Guidance v01

3.2. SAR Test Reduction Guidance

SAR test reduction procedures [Glossary] allow using a particular set of test data as representative of other, similar, test conditions. This may be applied for data within different test positions (e.g. body, head, extremity), wireless modes (e.g. Wi-Fi, cellular), and frequency bands. This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the midband or highest output power channel meets any of the following conditions.

4.1.2 Limits

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum timeaveraged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than λ /4 where the gain is not well defined, but always less than that of a half-wave dipole (length λ /2), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



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$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$\chi = -\log_{10}\left(\frac{60}{ERP_{20} \text{ cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

					Di	stance	(mm)				
		5	10	15	20	25	30	35	40	45	50
(Z	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
nba	2450	3	10	22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169



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4.1.3 SAR Exclusion Evaluation Result

1) For BLE

Measurement Data

Measurement Da	iu .				
Channel	Conducted Peak Output Power (dBm)	EIRP (dBm)	ERP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
Lowest (2402MHz)	2.84	3.21	1.06	1.28	
Middle (2440MHz)	2.85	3.22	1.07	1.28	3.0
Highest (2480MHz)	-0.44	-0.07	-2.22	0.60	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20240601021E-02



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2) For BT

Measurement Data

Channel	Conducted Peak Output Power	EIRP (dBm)	ERP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
	(dBm)				
Lowest					
(2402MHz)	-1.29	-0.92	-3.07	0.49	
Middle					3.0
(2441MHz)	-1.29	-0.92	-3.07	0.49	3.0
Highest					
(2480MHz)	-0.49	-0.12	-2.27	0.59	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20240601021E-01

*** END OF REPORT ***