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RF Exposure Evaluation Report

Report No.:	CQASZ20250400929E-04
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 glasses
Model No.:	M01, M02
Test Model No.:	M01
Brand Name:	N/A
FCC ID:	2AGFW-M01
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2025-04-25
Date of Test:	2025-04-25 to 2025-05-21
Date of Issue:	2025-05-22
Test Result:	**PASS***

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

Tested By: lewis zhou

(Lewis Zhou)

Reviewed By: Timo Lei

(Timo Lei)

Approved By:

(Jack Ai)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250400929E-04	Rev.01	Initial report	2025-05-22

2 Contents

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 glasses
Model No.:	M01
Test Model No.:	M01
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V1.0
Power Supply:	Li-ion battery: DC 3.8V 220mAh/0.84Wh, Charge by DC 5V
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:	Internal antenna
Antenna Gain:	0dBi

3.4 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Product Type:	☐ Mobile ☒ Portable
Antenna Type:	Internal antenna
Antenna Gain:	0dBi

3.5 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Sample Type:	☐ Mobile ☒ Portable
Antenna Type:	Internal antenna
Antenna Gain:	0dBi

Note:

Model No.: M01, M02

Only the model M01 was tested, their electrical circuit design, layout, components used and internal wiring are identical, only the color of the product is different, so the model name is also different.

4 RF Exposure Evaluation

4.1 SAR Evaluation for Portable condition

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

4.1.2 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 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 ≤ 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

4.1.3 Simultaneous transmission SAR test exclusion considerations

When an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

[(*max. power of channel, including tune-up tolerance, mW*) / (*min. test separation distance, mm*)] ·[√f(GHz)/*x*] W/kg, for *test separation distances* ≤ 50 mm;

where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm.

The [∑ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [∑ of MPE ratios] is ≤ 1.0.

4.1.4 SAR Exclusion Evaluation Result

1) For BT

Measurement Data

Worst case: 8DPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.76	2.0±1	3	1.995
Middle(2441MHz)	2.19	2.5±1	3.5	2.239
Highest(2480MHz)	1.67	2.0±1	3	1.995

Worst case: 8DPSK			
Channel	Maximum tune-up Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.995	0.618	3.0
Middle (2441MHz)	2.239	0.700	
Highest (2480MHz)	1.995	0.628	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250400929E-01

2) For BLE

Measurement Data

Worst case: GFSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.55	1.0±1	2.0	1.585
Middle(2441MHz)	1.19	1.5±1	2.5	1.778
Highest(2480MHz)	0.62	1.0±1	2.0	1.585

Worst case: GFSK			
Channel	Maximum tune-up Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.585	0.491	3.0
Middle (2441MHz)	1.778	0.556	
Highest (2480MHz)	1.585	0.499	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report No.: CQASZ20250400929E-02

3) **For 2.4G WIFI**

Measurement Data

Worst case: 11B				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	4.09	4.5±1	5.5	3.548
Middle(2437MHz)	4.48	4.5±1	5.5	3.548
Highest(2462MHz)	2.44	2.5±1	3.5	2.239

Worst case: 11B			
Channel	Maximum tune-up Power (mW)	Calculated value	Exclusion threshold
Lowest (2412MHz)	3.548	1.100	3.0
Middle (2437MHz)	3.548	1.109	
Highest (2462MHz)	2.239	0.705	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted AV Output Power data refer to report No.: CQASZ20250400929E-03

Simultaneous TX:

Estimated SAR BT+ Estimated SAR BLE+ Estimated SAR 2.4G WIFI≤1

0.093/1.6 + 0.147/1.6 = 0.15 ≤1

*** END OF REPORT ***