

Report No.: MAX250424011-P01R01RF

Report Reference No	MAX250424011-P01R01RF
FCC ID :	2A5N2-A70
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Date of issue:	April 27, 2025
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Applicant's name:	Shenzhen George Zebra Network Technology Co. Ltd
Address	Room 301, Building 3, Nanchang Huafeng Industrial Park, Nanchang Community, Xixiang Street, Baoan District, Shenzhen China
Test specification:	20 20 20
Standard	KDB 447498 D01
Mr. Mr.	We We We I
Test item description:	True wireless earbuds
Trade Mark:	N/A
Manufacturer	Shenzhen George Zebra Network Technology Co. Ltd
Model/Type reference:	A70
Listed Models	N/A
Modulation	GFSK, π/4DQPSK, 8-DPSK
Frequency	From 2402MHz to 2480MHz
Rating	DC 3.7V From Battery or DC 5V by USB port
Result	PASS



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RF EXPOSURE EVALUATION METHOD

According to KDB 447498 D01 General RF Exposure Guidance v06, 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.

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ 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 calculation The result is rounded to one decimal place for comparison

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

EUT Specification

EUT	True wireless earbuds	Mo	No			
FCC ID	2A5N2-A70					
Frequency band	□ WLAN: 2.412GHz ~ 2.462GHz					
(Operating)	🗆 WLAN: 5.150GHz ~ 5.250GHz					
131 131	🗆 WLAN: 5.725GHz ~ 5.850GHz					
	☑ Others BT:2402-2480MHz					
Device category	☑ Portable (<20cm separation)	NIC	N			
	□ Mobile (>20cm separation)					
Exposure classification	Occupational/Controlled exposure (S = 5mW/cm2)					
	General Population/Uncontrolled	exposure				
121	(S=1mW/cm ²)	181				
Antenna diversity	☑ Single antenna					
	Multiple antennas					
	Tx diversity					
	Rx diversity					
-lo-	□ Tx/Rx diversity	-Lo-				
Max. output power	1.50dBm (0.00141W)	13.	10			
Antenna gain (Max)	-1.37dBi	14.	la.			
Evaluation applied	□ MPE Evaluation					
10	SAR Evaluation					

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RF EXPOSURE EVALUATION METHOD 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.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
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	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
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	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 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 calculation 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.



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	Operating Mode	Freque ncy	Measur ed Power	max. power	Antenna Gain	min. test separation distance	[√f(GHz)]	Result	Limit	Jah
		(MHz)	(dBm)	(mW)	(dBi)	(mm)				Nat'
	NIS	2402	0.321	1.08	-1.37	5	1.550	0.3337	3	NIC
	GFSK	2441	-0.063	0.99	-1.37	5	1.562	0.3080	3	
d		2480	-0.231	0.95	-1.37	5	1.575	0.2986	3	
		2402	0.604	1.15	-1.37	5	1.550	0.3562	3	No
	π/4DQPSK	2441	-0.056	0.99	-1.37	5	1.562	0.3085	3	Wa.
		2480	-0.346	0.92	-1.37	5	1.575	0.2908	3	N-
		2402	1.500	1.41	-1.37	5	1.550	0.4378	3	5
	8-DPSK	2441	0.881	1.22	-1.37	5	1.562	0.3827	3	130
	13	2480	0.700	1.17	-1.37	5	1.575	0.3700	3	37.

Maximum measured transmitter power.

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The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

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

The test Result is less than 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.