



Test Report No.: FM2403WDG0225-2



## RF EXPOSURE REPORT

Applicant	KYOSHO CORPORATION
Address	7-15 Nihonbashi Tomizawacho, Chuo-ku, Tokyo, Japan

Manufacturer or Supplier	Dongguan Weisheng Plastic Technology Co.,Ltd.
Address	Room 102, No.6 Qile Second Road, Xiegang Town, Dongguan City, Guangdong Province, China
Product	First Mini-Z
Brand Name	N/A
Model	66601
Additional Model & Model Difference	66602, 66603, 66607, 66608, 66609, 66610, 66611, 66612, 66613; see item 1
Date of tests	Mar. 22, 2024 ~ May 16, 2024
<input checked="" type="checkbox"/> FCC Part 2 (Section 2.1093)	
<input checked="" type="checkbox"/> KDB 447498 D01 V06	
<input checked="" type="checkbox"/> IEEE C95.1	

### CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Sep. 29, 2024

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2403WDG0225-2	Original release	Sep. 29, 2024

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## 1. CERTIFICATION

<b>FCC ID:</b>	2BGBVKT281PT2405
<b>PRODUCT:</b>	First Mini-Z
<b>BRAND NAME:</b>	N/A
<b>MODEL NO.:</b>	66601
<b>ADDITIONAL NO.:</b>	66602, 66603, 66607, 66608, 66609, 66610, 66611, 66612, 66613
<b>APPLICANT:</b>	KYOSHO CORPORATION
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	IEEE C95.1

1. Note: Additional models as above are identical with the test model 66601 except the color of the appearance, product name and model name for trading purpose.



## 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>16</sup> 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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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.

2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:

- a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at  $> 1500$  MHz and  $\leq 6$  GHz

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.

- a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
- b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
- c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

## 3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.



## 4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
TX	2420-2462	-27	+2	-29	-25

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBuV/m)	Averaged Power (dBm)
TX	2420	68.11	-27.1188

Note:

$$E = \frac{\sqrt{30} \cdot PG}{d}$$

E = Electric field strength in v/m

V/m = 10<sup>(dBuV/m - 120)/20</sup>

P = Power in Watts

G = Antenna gain in dBi

d = Measurement distance in metres

Power ≈ 0.001941 (mW)

dBm = 10 \* log<sub>10</sub>(0.001941) ≈ -27.1188 (dBm)

### SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2420-2462	-25	5	0.00098	3.0	7.5	Exempt from SAR

### Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.