

# FCC RF EXPOSURE REPORT

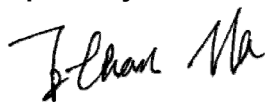
## FCC ID: 2ABVN-M98D

**Project No.** : 2008C014  
**Equipment** : 2.4G Wireless Dongle  
**Brand Name** : MSI  
**Test Model** : M98D  
**Series Model** : N/A  
**Applicant** : Verico International Co., Ltd  
**Address** : 12F-6., No.872, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)  
**Manufacturer** : Verico International Co., Ltd  
**Address** : 12F-6., No.872, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)  
**Factory** : Dongguan You Hong Plastic Electronics Co.,Ltd.  
**Address** : Zhen Hua Road, Tie Lu Keng Village, Qi Shi Town, Dong Guan City, Guang Dong Province, China  
**Date of Receipt** : Aug. 14, 2020  
**Date of Test** : Aug. 14, 2020 ~ Sep. 03, 2020  
**Issued Date** : Sep. 22, 2020  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG2020081734  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 15, 2020
R01	Modified the comments of telefication.	Sep. 22, 2020

## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G Wireless Dongle	
Brand Name	MSI	
Test Model	M98D	
Series Model	N/A	
Model Difference(s)	N/A	
Software Version	V01	
Hardware Version	V1.1	
Power Source	Supplied from PC USB port.	
Power Rating	DC 5V	
Product Description	Operation Frequency	2405 MHz ~ 2470 MHz
	Modulation Technology	GFSK
	Bit Rate of Transmitter	2 Mbps
	Field Strength	61.59 dBuV/m(AVG) 64.49 dBuV/m(Peak)
	Max. Output Power	-33.71 dBm(0.0004 W)(Peak) -30.81 dBm(0.0008 W)(AVG)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

#### 2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2405	01	2413
02	2422	03	2430
04	2440	05	2450
06	2460	07	2470

#### 3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	-1.66

## 2. GENERAL CONCLUSION

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and $\leq 50$ mm											
MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	SAR Test Exclusion Thresholds (mW)
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

**3. TEST RESULTS**

Max. Output Power (dBm)	Max. Output Power (mW)	Limit (mW)
-30.81	0.0008	10

Note:

- (1) The maximum measured output peak power of this EUT is 0.0008mW, less than 10mW at 5mm distance.  
Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**