

TEST REPORT

Product Name : Wireless Mouse
Brand Mark : VOXON/Voxon
Model No. : VX-MS308
FCC ID : 2AMKH-VXMS308
Report Number : BLA-EMC-202206-A7803
Date of Sample Receipt : 2022/6/20
Date of Test : 2022/6/20 to 2022/7/18
Date of Issue : 2022/7/18
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

VOXON LIMITED

RM 2103 EASEY COMM BLDG, 253-261 HENNESSY RD, HongKong

Prepared by:

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Date: 2022/7/18



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/7/18	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	VOXON LIMITED
Address	RM 2103 EASEY COMM BLDG, 253-261 HENNESSY RD, HongKong
Manufacturer	VOXON LIMITED
Address	RM 2103 EASEY COMM BLDG, 253-261 HENNESSY RD, HongKong
Factory	VOXON LIMITED
Address	RM 2103 EASEY COMM BLDG, 253-261 HENNESSY RD, HongKong
Product Name	Wireless Mouse
Test Model No.	VX-MS308

3 GENERAL DESCRIPTION OF E.U.T.

BLE

Hardware Version	N/A
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	3.1dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 RF EXPOSURE COMPLIANCE REQUIREMENT

Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

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.

Limits

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

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$EIRP = p_t \times g_t = (E \cdot d)^2 / 30$$

where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10((dBuV/m)/20)/106$

d = measurement distance in meters (m)---3m

$$S_{opt} = (E \cdot d)^2 / 30 \times g_t$$

$$\text{Ant gain} = 3.1 \text{ dBi}$$

$$\text{Max Output power} = -1.89 \text{ dBm} @ 2402 \text{ MHz}$$

$$\text{ERP} = -1.89 \text{ dBm} + 3.1 \text{ dBi} - 2.15 = -0.94 \text{ dBm}$$

So

ERP is worse case

$$10^{-0.094} = 0.805 \text{ mW} < 3 \text{ mW}$$

Then SAR evaluation is not required

----END OF REPORT----

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