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IEEE C95.1 2005
KDB 447498 D03
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

13.3 button deck

Model: MD1

Trade Name: AXIOMTEK

Issued to

AXIOMTEK CO., Ltd.

8F., No.55, Nanxing Road, Xizhi District, New Taipei City 221, Taiwan

Issued by

Compliance Certification Services Inc.

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Issued Date: August 2, 2019

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 29, 2019	Initial Issue	ALL	Allison Chen
01	August 2, 2019	See the following Note Rev.(01)	P.6	Allison Chen

Rev.(01)

1. Revised frequency band.



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1. TEST RESULT CERTIFICATION

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted

Approved by:

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Reporter:

Allison Chen
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2. LIMIT

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310.

§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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of the chapter.

TABLE 1 - LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	* 100	6
3.0-30	1842/f	4.89/f	* 900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
<u>0.3-1.34</u>	<u>614</u>	<u>1.63</u>	* 100	30
1.34-30	824/f	2.19/f	* 180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



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3. EUT SPECIFICATION

EUT	13.3 button deck
Model	MD1
Trade Name	AXIOMTEK
Model Discrepancy	N/A
Frequency band (Operating)	☒ 115KHz ~ 145KHz ☐ Others
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure (E=614 V/m)
Antenna Specification	Coil Antenna
Result Power	115KHz ~145KHz 85.99 dBuV/m (3m)
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A

4. TEST RESULTS

No non-compliance noted.

<i>EUT parameter (data from the separate report)</i>	
Result Power in dBuV/m	85.99 dBuV/m (3m)
Limit of E-field strength (V/m)	614 V/m

<i>Exposure evaluation</i>	
Given $R = R_3 + 40 \log(3/0.2)$ or $R = R_3 + 40 \log(3/0.15)$ $E = 10^{((R-120)/20)}$	Where: ● E: E field Strength ● R₃: Result Power on 3m ● R: Result Power on 0.2m or 0.15m

Evaluation distance (m)	Frq. (MHz)	Result power (dBuV/m)	Electric Field Strength (V/m)	Limit of Electric Field Strength (V/m)
0.2	0.13	85.99	4.48417	614
0.15	0.13	85.99	7.97187	614

- End of Test Report -