

RF Exposure Exemption

Applicant : ASUSTeK COMPUTER INC.
Product Name : ASUS Fold Bluetooth Keyboard
Trade Name : ASUS
Model Number : UX9702A Bluetooth Keyboard
Applicable Standard : 47 CFR § 2.1093
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Taiwan Accreditation Foundation accreditation number: 1330
Test Firm MRA designation number: TW0010

Note:

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Revision History

Rev.	Issued Date	Revisions	Revised By
00	May 26, 2022	Initial Issue	Nicole Chu

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1. General Information

1.1 Reference Applicable Standard

Standard	Description	Version
IEEE C95.1	American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300 KHz to 100 GHz, New York.	1992
47 CFR Part §2.1093	Radiofrequency radiation exposure evaluation: portable devices.	-
KDB 447498 D04	RF exposure procedures and equipment authorization policies for mobile and portable devices	v01

2. Description of Equipment under Test (EUT)

Applicant	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name	ASUS Fold Bluetooth Keyboard
Trade Name	ASUS
Model Number	UX9702A Bluetooth Keyboard
FCC ID	MSQUX9702A
Frequency Range	Bluetooth : 2402 - 2480 MHz
Supported Modulations	Bluetooth : LE

Note:

The above information of DUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Antenna Information				
Model	Type	Frequency	Max. Gain (dBi)	Modulation
UX9702A	PCB Antenna	2402 ~ 2480	-1.0	GFSK

3. RF Exposure Limit

Table 1 Safety Limits for Controlled / Uncontrolled Environment Exposure

SAR Exposure Limit		
	General Population / Uncontrolled Exposure ¹ (W/kg)	Occupational / Controlled Exposure ² (W/kg)
Spatial Peak SAR ³ (head or Body)	1.60	8.00
Spatial Peak SAR ⁴ (Whole Body)	0.08	0.40
Spatial Peak SAR ⁵ (Hands / Feet / Ankle / Wrist)	4.00	20.00

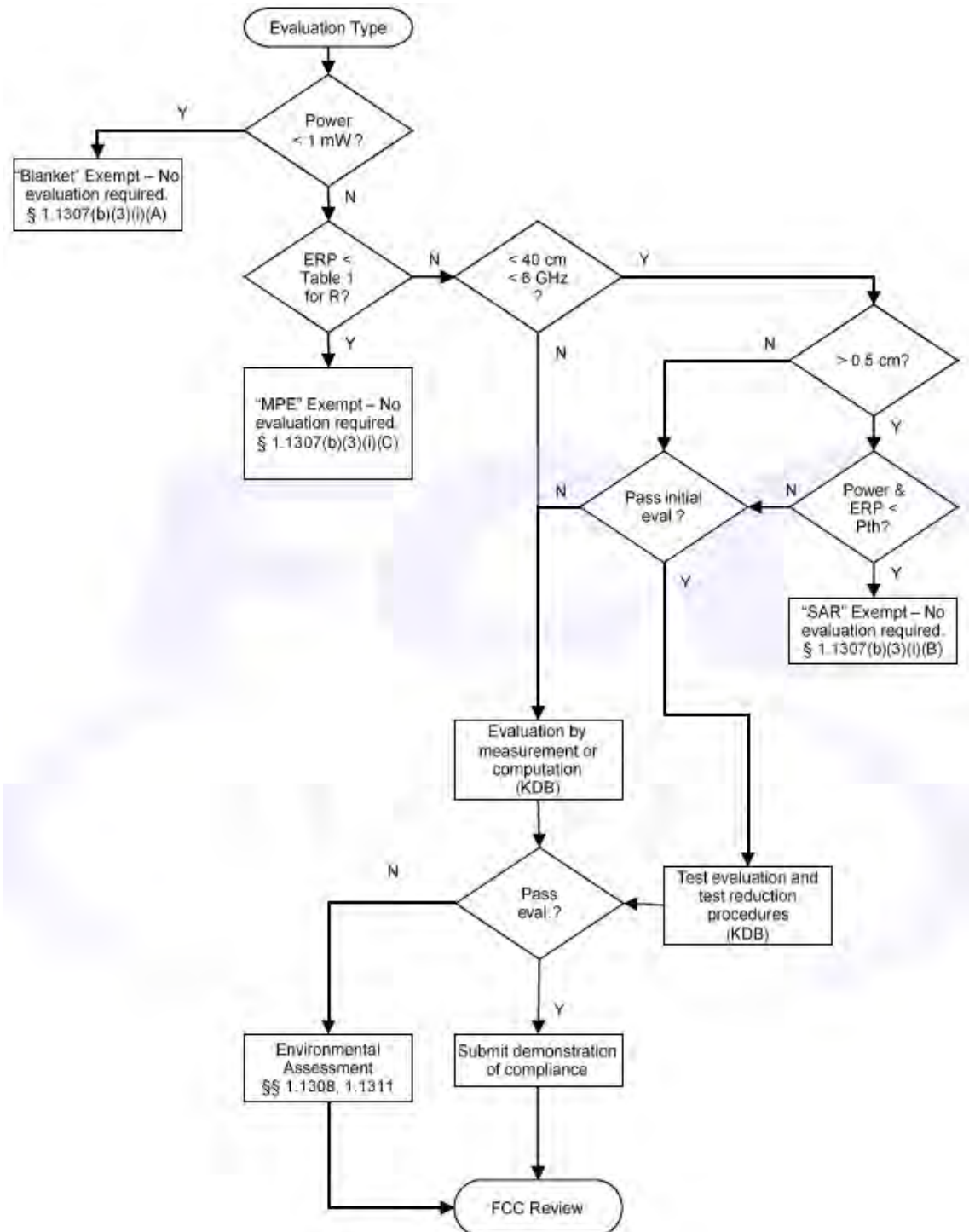
Notes :

1. General Population / Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.
2. Occupational / Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).
3. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
4. The Spatial Average value of the SAR averaged over the whole body.
5. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

4. RF Exposure Assessment

Exemption evaluation was performed according to the appendix A and B in KDB447498 D04.

The General Sequence for Determination of Procedure demonstrated in Figure A.1 of KDB447498 D04 was applied.



5. Maximum Tune-up Power

Operate Band	Frequency (MHz)	ANT
Bluetooth	2402 - 2480	-0.5

6. Result

Band	Frequency (MHz)	Tune-up Power (dBm)	Tune-up Power (mW)	ANT Gain (dBi)	ERP (mW)	<§1.1307(b)(3)(i)(A)> 1 mW Exemption Threshold ERP (mW)	<§1.1307(b)(3)(i)(A)> 1 mW Exemption considerations	Antenna
Bluetooth	2402 - 2480	-0.50	0.89	-1.00	0.432	1.00	Qualified	Bluetooth

Note:

This device is qualified for the 1 mW blanket exemption under §1.1307(b)(3)(i)(A).

7. Conclusion

The result shows that this device is qualified for 1 mW Test Exemption in KDB447498. Therefore, SAR testing is not required.

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