

RF Exposure Exemption

Applicant : **Thales DIS France SAS**

Product Name : **Gemalto SWYS BLE Token**

Trade Name : **THALES THALES**

Model Number : **Gemalto SWYS BLE Token**

Applicable Standard : **47 CFR § 2.1093**

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Taiwan Accreditation Foundation accreditation number: 1330

Note:

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Approved By :



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Revision History

<i>Rev.</i>	<i>Issued Date</i>	<i>Description</i>	<i>Revised by</i>
00	Feb. 07, 2024	Initial Issue	Yiyang Chiang

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 § 2.1093	Radiofrequency radiation exposure evaluation: portable devices.	-
47 CFR § 1.1310	Radiofrequency radiation exposure limits.	-
KDB 447498 D04	RF exposure procedures and equipment authorization policies for mobile and portable devices	v01

1.2 Testing Location

Test Facilities

Company Name: Eurofins E&E Wireless Taiwan Co., Ltd.
 Address: No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan
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Test Site Location

- No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan
- No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan

Laboratory Accreditation

Location	TAF	FCC	ISED
No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan	Accreditation No.: 1330	Designation No.: TW0010	Company No.: 7381A CAB ID: TW1330
No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan	Accreditation No.: 1330	Designation No.: TW0034	Company No.: 28922 CAB ID: TW1330

2. Description of Equipment under Test (EUT)

Applicant	Thales DIS France SAS 6 Rue de la Verrerie, MEUDON 92197 France			
Product Name	Gemalto SWYS BLE Token			
Trade Name	THALES THALES			
Model Number	Gemalto SWYS BLE Token			
FCC ID	MES-BLETOKEN			
Antenna Information	Trade Name	Model No.	Type	Gain
	Thales	DA14531 PCB Antenna	PCB Antenna	-5.1 dBi

Note:

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

2.1 RF Specification

Bluetooth				
Support type:	<input type="checkbox"/> BR	<input type="checkbox"/> EDR	<input checked="" type="checkbox"/> BLE-1 Mbps	<input type="checkbox"/> BLE-2 Mbps

3. RF Exposure Limit

For devices that operate at larger distances from persons, where there are minimal RF coupling interactions between a device and the user or nearby persons, RF exposure compliance using maximum permissible exposure (MPE) limits is applied. The limits for MPE is listed as below:

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824 / f	2.19 / f	(180 / f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F / 1,500	30
1,500-100,000	-	-	1.0	30
Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1,842 / 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

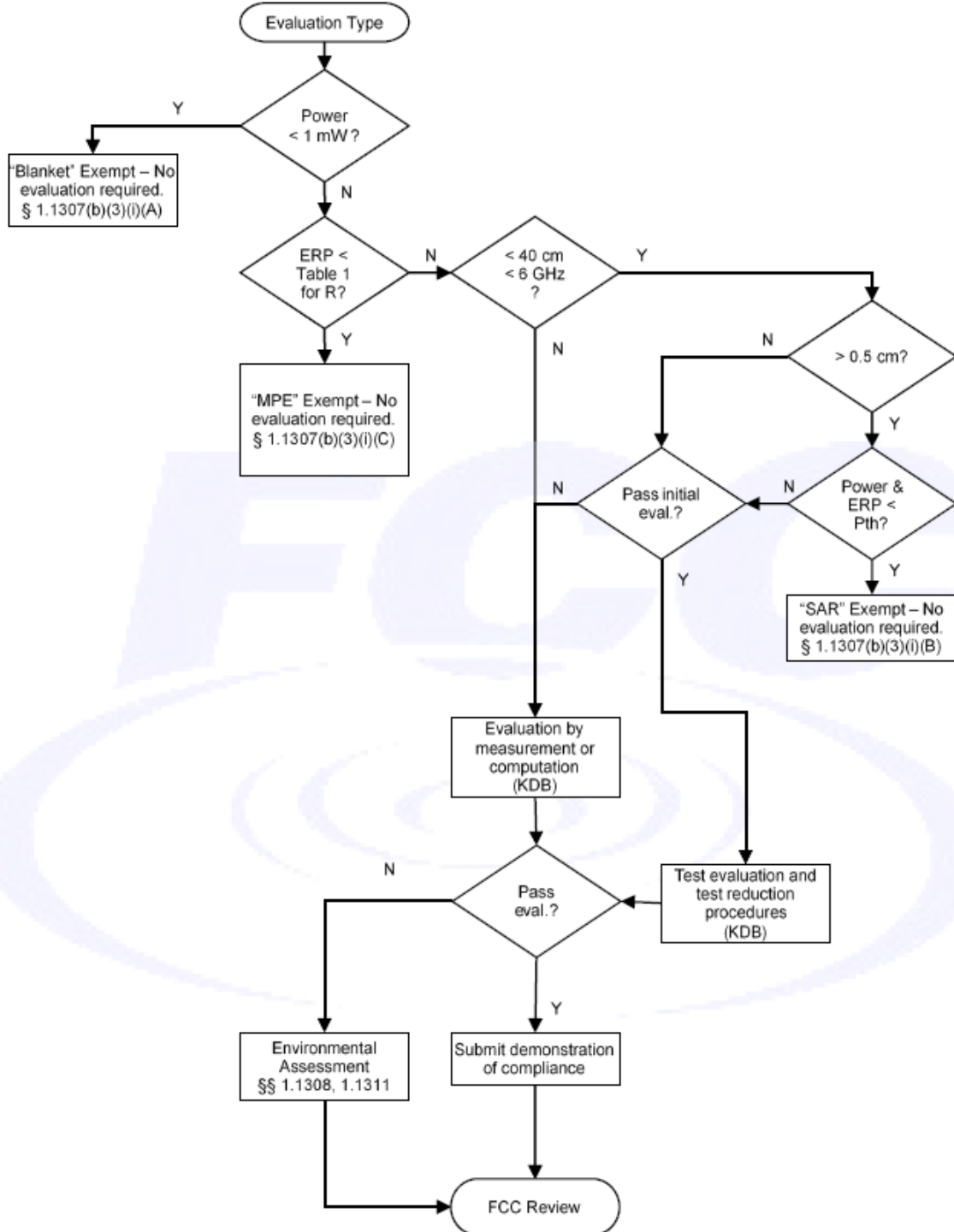
f = frequency in MHz. * = Plane-wave equivalent power density.

4. RF Exposure Assessment

4.1 Exemption Evaluation

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 Transmitting Mode Evaluation

Antenna transmission description
Bluetooth : 1TX (Diversity)

6. Result

Band	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	ANT Gain (dBi)	ERP (mW)	<§1.1307(b)(3)(i)(B)> Exemption Pth (mW)	<§1.1307(b)(3)(i)(B)> Exemption considerations
Bluetooth	2402 - 2480	0.19	1.05	-5.10	0.197	2.72	Qualified

Note:

This device is qualified for exemption under §1.1307(b)(3)(i)(B).

7. Conclusion

The result shows that this device is qualified for RF Exposure Exemption in KDB447498. Therefore, SAR testing is not required.

***** End of Report *****