

RF Evaluation Report

Applicant	Cypress Semiconductor
FCC ID	WAP3047
Product	EZ-BT WICED Module
Brand	Cypress
Model	CYBT-333032-02; CYBT-333047-02
Report No.	EFTA25050071-IE-06-M1
Issue Date	May 26, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **KDB 447498 D01 General RF Exposure Guidance v06**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

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1 Test Laboratory

1.1 Notes of the Test Report

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1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	Cypress Semiconductor
Applicant address	198 Champion Court, San Jose, California 95134, United States
Manufacturer	Cypress Semiconductor
Manufacturer address	198 Champion Court, San Jose, California 95134, United States

General Technologies

EUT Description			
Model	CYBT-333032-02; CYBT-333047-02		
Lab Internal SN	EFTA25050071-IE-06/M1		
Hardware Version	REV1.0		
Software Version	REV1.0		
Frequency	Band	TX (MHz)	RX (MHz)
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5
Date of Sample Received	May 22, 2025		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

3 Max Output Power

The numeric gain (G) of the antenna with a gain specified in dB is determined by
$$\text{Numeric gain (G)} = 10^{(\text{antenna gain}/10)}$$

Band	Maximum Power (dBm)	Tune up (dBm)	Antenna Gain (dBi)	Numeric Gain
Bluetooth	9.70	10	2.50	1.78
Bluetooth LE	7.65	10	2.50	1.78

4 SAR Test Exclusion Thresholds

According to KDB 447498 D01 General RF Exposure Guidance v06 section 4.3.1 and Appendix A.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Power limits for Bluetooth to be exempt from routine SAR evaluation are as follows:

Band	Configuration	Frequency (MHz)	Separation distance (mm)	Limit (mW)
Bluetooth	Body worn	2450	≤ 5	10
Bluetooth LE	Body worn	2450	≤ 5	10

5 RF Exposure Evaluation Result

According to KDB 447498 D01 General RF Exposure Guidance v06 chapter 5.2. this module may be approved to operate in qualified host and portable device exposure conditions with no restriction for most host platform configurations as it meets the SAR test Exclusion thresholds in KDB 447498 D01 General RF Exposure Guidance v06 section 4.3.1.

Band	Configuration	Frequency (MHz)	Separation distance (mm)	Tune up (dBm)	Tune up (mW)	Limit (mW)	Standalone SAR
Bluetooth	Body worn	2450	≤ 5	10	10	10	NO
Bluetooth LE	Body worn	2450	≤ 5	10	10	10	NO

Note: Based on Maximum Power (mW) meet the Exemption Limit and are exempt from routine RF exposure evaluation.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*****END OF REPORT *****