

# RF EXPOSURE REPORT

## CERTIFICATE OF CONFORMITY

**FCC Rule Part: FCC Part 2 (Section 2.1091)**

**Report No.:** MFBBUI-WTW-P23070201N

**FCC ID:** TX2-RTL8922AE

**Product:** 11be RTL8922AE Combo module

**Brand:** REALTEK

**Model No.:** RTL8922AE

**Received Date:** 2025/5/2

**Test Date:** 2025/6/20 ~ 2025/6/27

**Issued Date:** 2025/7/16

**Applicant:** Realtek Semiconductor Corp.

**Address:** No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

**FCC Registration /** 723255 / TW2022

**Designation Number:**

**Approved by:** \_\_\_\_\_, **Date:** 2025/7/16  
\_\_\_\_\_  
May Chen / Manager

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Prepared by : Phoenix Huang / Specialist



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## Release Control Record

Issue No.	Description	Date Issued
MFBBUI-WTW-P23070201N	Original release.	2025/7/16



## 1 Certificate

**Product:** 11be RTL8922AE Combo module

**Brand:** REALTEK

**Test Model:** RTL8922AE

**Sample Status:** Engineering sample

**Applicant:** Realtek Semiconductor Corp.

**Test Date:** 2025/6/20 ~ 2025/6/27

**FCC Rule Part:** FCC Part 2 (Section 2.1091)

**Standard:** KDB 447498 D04 Interim General RF Exposure Guidance v01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Applicable RF Exposure Limit

§ 1.1310 Radiofrequency radiation exposure limits.

(a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).

(b) The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

(c) The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

(e) Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

➤ Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	<30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	<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.

➤ Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<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.

### MPE-based Exemption – §1.1307(b)(3)(i)(C)

- The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.
- Table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits.

RF Source frequency (MHz)	Minimum Distance		Threshold ERP (watts)
	$\lambda_L / 2\pi$	$\lambda_H / 2\pi$	
0.3-1.34	159 m–35.6 m		1,920 $R^2$ .
1.34-30	35.6 m–1.6 m		3,450 $R^2/f^2$ .
30-300	1.6 m–159 mm		3.83 $R^2$ .
300-1,500	159 mm–31.8 mm		0.0128 $R^2/f$ .
1,500-100,000	31.8 mm–0.5 mm		19.2 $R^2$ .
R must be at least $\lambda/2\pi$ , where $\lambda$ is the free-space operating wavelength in meters.			

### MPE-based Exemption – §1.1307(b)(3)(i)(B)

- For mobile devices that are not exempt per Table 1 of §1.1307(b)(1)(i)(C) and device at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.

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

### Fixed RF sources operating in the same time-averaging period – §1.1307(b)(3)(ii)(B)

- Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated<sub>k</sub> term) should be used to determine exemption for simultaneous transmission according to Formula below,

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

The sum of the ratios of the applicable terms for SAR-based, MPE-based and measured SAR or MPE should be less than 1, to determine simultaneous transmission exposure compliance.

Where:

$a$  = number of fixed, mobile, or portable RF sources claiming exemption using [paragraph \(b\)\(3\)\(i\)\(B\)](#) of this section for  $P_{th}$ , including existing exempt transmitters and those being added.

$c$  = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

$P_{th,i}$  = the exemption threshold power ( $P_{th}$ ) according to [paragraph \(b\)\(3\)\(i\)\(B\)](#) of this section for fixed, mobile, or portable RF source  $i$ .

$ERP_{th,j}$  = exemption threshold ERP for fixed, mobile, or portable RF source  $j$ , at a distance of at least  $\lambda/2\pi$  according to the applicable formula of [paragraph \(b\)\(3\)\(i\)\(C\)](#) of this section.

$Exposure\ Limit_k$  = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source  $k$ , as applicable from [§ 1.1310 of this chapter](#).

$b$  = number of fixed, mobile, or portable RF sources claiming exemption using [paragraph \(b\)\(3\)\(i\)\(C\)](#) of this section for Threshold ERP, including existing exempt transmitters and those being added.

$P_i$  = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source  $i$  at a distance between 0.5 cm and 40 cm (inclusive).

$ERP_j$  = the ERP of fixed, mobile, or portable RF source  $j$ .

$Evaluated_k$  = the maximum reported SAR or MPE of fixed, mobile, or portable RF source  $k$  either in the device or at the transmitter site from an existing evaluation at the location of exposure.

### 3 Test Results

Note: This report is prepared for FCC class II permissive change. The differences compared with original report no: MFBBUI-WTW-P23070201B is enabling VLP operation on U-NII-6 and U-NII-8 bands via software configuration. Therefore, the RF exposure needed to be evaluated and recorded in this report.

Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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#### 1TX

##### For Single RF Source

MPE-based Exemption §1.1307(b)(3)(i)(C)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
Bluetooth	2402-2480	18.75	3.4	25.004	20	768	Pass
WLAN 2.4 GHz	2412-2472	172.584	3.4	230.144	20	768	Pass
WLAN 5 GHz(L)	5150-5320	172.982	5	333.427	20	768	Pass
WLAN 5 GHz(H)	5500-5825	174.181	5	335.738	20	768	Pass
WLAN 5.9 GHz	5815-5885	171.396	5	330.37	20	768	Pass
WLAN 6 GHz (Equipment Class: 6CD)	5955-6415 6435-6525 6535-6865 6875-7115	172.187	5	331.895	20	768	Pass
WLAN 6 GHz (Equipment Class: 6VL) (U-NII-5, U-NII-7)	5955-6415 6535-6855	7.925	5	15.276	20	768	Pass
WLAN 6 GHz (Equipment Class: 6VL) (U-NII-6, U-NII-8)	6435-6545 6865-7115	7.889	5	15.206	20	768	Pass

##### Note:

1. Except for the new data of WLAN 6 GHz (6VL), other data is copied from the original test report (Original Report No.: MFBBUI-WTW-P23070201B).
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

##### Simultaneously transmission combination

Combination	Technology	
	S0 (Chain 1)	S1 (Chain 0)
1	WLAN (5 GHz)_H	Bluetooth + WLAN (5 GHz)_L
2	WLAN (5 GHz)_L	Bluetooth + WLAN (5 GHz)_H
3	WLAN (5 GHz)_L	Bluetooth + WLAN (6 GHz)
4	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_L
5	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_H
6	WLAN (5 GHz)_H	Bluetooth + WLAN (6 GHz)
7	WLAN (2.4 GHz)	WLAN (5 GHz) Full
8	WLAN (2.4 GHz)	WLAN (6 GHz)
9	WLAN (5 GHz) Full	Bluetooth
10	WLAN (6 GHz)	Bluetooth

## For Multiple RF Sources (Simultaneous Operations Condition 1)

Multiple RF Sources (Simultaneous Operations)					Sum of Ratios	Limit of Ratios	Test Result			
Exemption Evaluation										
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio						
Bluetooth	2402-2480	25.004	768	0.033	0.904	1	Pass			
WLAN 5 GHz(L)	5150-5320	333.427	768	0.434						
WLAN 5 GHz(H)	5500-5825 5815-5885	335.738	768	0.437						

## For Multiple RF Sources (Simultaneous Operations Condition 2)

Multiple RF Sources (Simultaneous Operations)					Sum of Ratios	Limit of Ratios	Test Result			
Exemption Evaluation										
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio						
Bluetooth	2402-2480	25.004	768	0.033	0.904	1	Pass			
WLAN 5 GHz(L)	5150-5320	333.427	768	0.434						
WLAN 5 GHz(H)	5500-5825 5815-5885	335.738	768	0.437						

## For Multiple RF Sources (Simultaneous Operations Condition 3)

Multiple RF Sources (Simultaneous Operations)					Sum of Ratios	Limit of Ratios	Test Result			
Exemption Evaluation										
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio						
Bluetooth	2402-2480	25.004	768	0.033	0.899	1	Pass			
WLAN 5 GHz(L)	5150-5320	333.427	768	0.434						
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	331.895	768	0.432						

## For Multiple RF Sources (Simultaneous Operations Condition 4)

Multiple RF Sources (Simultaneous Operations)					Sum of Ratios	Limit of Ratios	Test Result			
Exemption Evaluation										
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio						
Bluetooth	2402-2480	25.004	768	0.033	0.899	1	Pass			
WLAN 5 GHz(L)	5150-5320	333.427	768	0.434						
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	331.895	768	0.432						

**For Multiple RF Sources (Simultaneous Operations Condition 5)**

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.902	1	Pass
WLAN 5 GHz(H)	5500-5825 5815-5885	335.738	768	0.437			
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	331.895	768	0.432			

**For Multiple RF Sources (Simultaneous Operations Condition 6)**

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.902	1	Pass
WLAN 5 GHz(H)	5500-5825 5815-5885	335.738	768	0.437			
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	331.895	768	0.432			

**For Multiple RF Sources (Simultaneous Operations Condition 7)**

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
WLAN 2.4 GHz	2412-2472	230.144	768	0.3	0.737	1	Pass
WLAN 5 GHz(F)	5150-5320 5500-5825 5815-5885	335.738	768	0.437			

**For Multiple RF Sources (Simultaneous Operations Condition 8)**

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
WLAN 2.4 GHz	2412-2472	230.144	768	0.3	0.732	1	Pass
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	331.895	768	0.432			

For Multiple RF Sources (Simultaneous Operations Condition 9)

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.47	1	Pass
WLAN 5 GHz(F)	5150-5320 5500-5825 5815-5885	335.738	768	0.437			

For Multiple RF Sources (Simultaneous Operations Condition 10)

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.465	1	Pass
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	331.895	768	0.432			



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Environmental Conditions:	24°C, 60% RH	Tested By:	Katina Lu
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## 2TX

### CDD Mode

#### For Single RF Source

MPE-based Exemption §1.1307(b)(3)(i)(C)							
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
Bluetooth	2402-2480	18.75	3.4	25.004	20	768	Pass
WLAN 2.4 GHz	2412-2472	348.376	3.4	464.567	20	768	Pass
WLAN 5 GHz(L)	5150-5320	151.356	5	291.742	20	768	Pass
WLAN 5 GHz(H)	5500-5825	337.287	5	650.129	20	768	Pass
WLAN 5.9 GHz	5815-5885	170.051	5	327.778	20	768	Pass
WLAN 6 GHz (Equipment Class: 6CD)	5955-6415 6435-6525 6535-6865 6875-7115	308.002	5	593.682	20	768	Pass
WLAN 6 GHz (Equipment Class: 6VL) (U-NII-5, U-NII-7)	5955-6415 6535-6855	7.928	5	15.281	20	768	Pass
WLAN 6 GHz (Equipment Class: 6VL) (U-NII-6, U-NII-8)	6435-6545 6865-7115	7.912	5	15.251	20	768	Pass

#### Note:

1. Except for the new data of WLAN 6 GHz (6VL), other data is copied from the original test report (Original Report No.: MFBBUI-WTW-P23070201B).
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### Simultaneously transmission combination

Combination	Technology
1	WLAN (5 GHz) L + Bluetooth
2	WLAN (5 GHz) H + Bluetooth
3	WLAN (6 GHz) + Bluetooth

#### For Multiple RF Sources (Simultaneous Operations Condition 1)

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.413	1	Pass
WLAN 5 GHz(L)	5150-5320	291.742	768	0.38			

**For Multiple RF Sources (Simultaneous Operations Condition 2)**

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.88	1	Pass
WLAN 5 GHz(H)	5500-5825 5815-5885	650.129	768	0.847			

**For Multiple RF Sources (Simultaneous Operations Combination 3)**

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.806	1	Pass
WLAN 6 GHz	5955-6415 6435-6525 6535-6865 6875-7115	593.682	768	0.773			

Environmental Conditions:	24°C, 64% RH	Tested By:	Henry Hsu
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### Beamforming Mode

#### For Single RF Source

##### MPE-based Exemption §1.1307(b)(3)(i)(C)

Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
Bluetooth	2402-2480	18.75	3.4	25.004	20	768	Pass
WLAN 5 GHz(L)	5150-5320	151.356	8.01	583.445	20	768	Pass
WLAN 5.9 GHz	5815-5885	150.678	8.01	580.831	20	768	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

##### MPE-based Exemption §1.1307(b)(3)(i)(B)

Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
WLAN 2.4 GHz	2412-2472	348.376	6.41	929.07	20	3060	Pass
WLAN 5 GHz(H)	5500-5825	331.894	8.01	1279.38	20	3060	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### Simultaneously transmission conditions

Condition	Technology
1	WLAN (5 GHz)_L + Bluetooth
2	WLAN (5 GHz)_H + Bluetooth

#### For Multiple RF Sources (Simultaneous Operations Condition 1)

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.793	1	Pass
WLAN 5 GHz(L)	5150-5320	583.445	768	0.76			

#### For Multiple RF Sources (Simultaneous Operations Condition 2)

Multiple RF Sources (Simultaneous Operations)							
Exemption Evaluation					Sum of Ratios	Limit of Ratios	Test Result
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio			
Bluetooth	2402-2480	25.004	768	0.033	0.451	1	Pass
WLAN 5 GHz(H)	5500-5825	1279.38	3060	0.418			

## 4 Conclusion

Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

## 5 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

### **Lin Kou EMC/RF Lab**

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**Web Site:** <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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