SAR Test Report

FCC Rule Part	:	**CFR §2.1093**
Standards	:	**IEEE Std 1528:2013, IEC TR 63170:2018** **KDB 865664 D01 v01r04, KDB 865664 D02 v01r02, KDB 248227 D01 v02r02,** **KDB 447498 D01 v06, KDB 616217 D04 v01r02**
Report No.	:	**SFBBUI-WTW-P23070201N**
Applicant	:	**Realtek Semiconductor Corp.**
Address	:	**No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan**
Product	:	**11be RTL8922AE Combo module**
FCC ID	:	**TX2-RTL8922AE**
Brand	:	**REALTEK**
Model No.	:	**RTL8922AE**
Sample Received Date	:	**May 02, 2025**
Evaluation Date	:	**May 23, 2025**
Lab Address	:	**No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan**
Test Location	:	**No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City, Taiwan**
FCC Accredited No.	:	**TW0003**

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch–Lin Kou Laboratories**, 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 SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

This report is issued as a supplementary report to BV CPS report no.: SFBBUI-WTW-P23070201H. The difference compared with original report is adding UNII 6, 8 for VLP. Since the tune-up power for UNII 6, 8 of VLP was lower than UNII 6, 8 of 6CD (Under control of LPI), SAR testing for UNII 6, 8 of VLP was not required. Therefore, only tune-up power and conducted power for UNII 6, 8 of VLP was recorded in this report.

Prepared By : Vera Huang

Vera Huang / Specialist

Approved By : Gordon Lin

Gordon Lin / Manager

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Release Control Record

Report No.	Reason for Change	Date Issued
SFBBUI-WTW-P23070201N	Initial release	Jul. 14, 2025

1. Test Reference Guidance

FCC Rule Part	:	**CFR §2.1093**
Measurement procedure	:	**IEEE Std 1528:2013, IEC TR 63170:2018** **KDB 865664 D01 v01r04, KDB 865664 D02 v01r02, KDB 248227 D01 v02r02,** **KDB 447498 D01 v06, KDB 616217 D04 v01r02**

2. Description of Equipment Under Test

EUT Type	11be RTL8922AE Combo module
FCC ID	TX2-RTL8922AE
Brand Name	REALTEK
Model Name	RTL8922AE
Tx Frequency Bands (Unit: MHz)	WLAN : 2412 ~ 2472, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825, 5815 ~ 5885, 5955 ~ 6415, 6435 ~ 6525, 6535 ~ 6865, 6875 ~ 7115 Bluetooth : 2402 ~ 2480
Uplink Modulations	802.11b : DSSS 802.11a/g/n/ac : OFDM 802.11ax/be : OFDMA Bluetooth : GFSK, π/4-DQPSK, 8DPSK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to Appendix D.
Antenna Type	Refer to Note
EUT Stage	Engineering Sample

Note:

1. The following antennas were provided to the EUT.

Antenna NO.	Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency range	Antenna Type	Connector Type	*Cable Length
1	Chain0/1	REALTEK	RTK-ANT-0022	3.4	2.4~2.4835GHz	PIFA	IPEX, MHF4	300mm
				5	5.15~5.895GHz			
				5	5.925GHz~7.125GHz			
2	Chain0/1	ARISTOTLE	RFA-57-JP805-4B-300	-1.87	5.15~5.895GHz	PIFA	IPEX, MHF4	300mm
				-1.88	5.925GHz~7.125GHz			

2. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

Report Issue History Record:

Issue No.	Description	Date Issued
SFBBUI-WTW-P23070201	Initial release	Feb. 02, 2024
SFBBUI-WTW-P23070201H	enable MRU function via software and add VLP (14dBm/EIRP) in UNII 5, 7	Mar. 26, 2025
SFBBUI-WTW-P23070201N	Add UNII 6, 8 for VLP	Jul. 14, 2025

3. Maximum Output Power

3.1 Maximum Target Conducted Power

Refer to Appendix D.

3.2 Measured Conducted Power Result

Refer to Appendix E.

Test Engineer： Daniel Hou

4. 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:

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

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