Realtek Semiconductor Corp.

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

April 20, 2022

Federal communications commission
Office of engineering and technology laboratory division
735 oakland mills Road
Columbia, Maryland 21046

Subject： class II permissive change for FCC ID: TX2-RTL8852BE
(original Grant date: 08/13/2021)

Dear Examiner,

This is to request a class II permissive change for 11ax RTL8852BE Combo module, Model Name: RTL8852BE, FCC ID: TX2-RTL8852BE.

The Major change filed under this application is:

- The subject approved module is being used in a specific host(portable category configuration: notebook computer, Brand Name:Lenovo, Model Name: **Yoga 7 14IAL7, Yoga 7 14ARB7.**
- SAR testing is performed to demonstrate compliance.
- The host antenna has the same type as originally approved with lower gains in the intentional transmit frequency bands, RF output power has been reduced from the original filing and therefore radiated performance in the intentional frequency bands is expected to be lower than that measured in the original modular approval.
- Beamforming mode was turned off.
- Software security remains unchanged from the original application.
- The antenna matching circuit remains unchanged from the original application.

Two groups antennas are used for the subject approved module in the Notebook Computer as below listed.
Original module:

Antenna	Type	Antenna manufacturer	Antenna Gain (dBi)	Note
Main	PIFA	ARISTOTLE	3.5	2.4G
			5	5G
AUX	PIFA	ARISTOTLE	3.5	2.4G
			5	5G
Main	Dipole	ARISTOTLE	3	2.4G
			5	5G
AUX	Dipole	ARISTOTLE	3	2.4G
			5	5G

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Group 1 for Notebook computer:

Antenna	Type	Antenna manufacturer	Antenna Gain (dBi)	Note
Main (DC33001XN00)	PIFA	INPAQ	1.95	2.4G
			1.92	5G
AUX (DC33001XN10)	PIFA	INPAQ	1.66	2.4G
			1.02	5G

Group 2 for Notebook Computer:

Antenna	Type	Antenna manufacturer	Antenna Gain (dBi)	Note
Main (DC33001XQ00)	PIFA	AWAN	1.95	2.4G
			1.92	5G
AUX (DC33001XQ10)	PIFA	AWAN	1.66	2.4G
			1.02	5G

Please kindly review the application documents submitted and grant approval for this Permissive Change application.

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