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November 22, 2021

Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, Maryland 21046

Re: Test data reuse of authorized equipment for FCC ID: MCQ-WPQ618 and IC: 1846A-WPQ618

To whom it may concern:

I would like to request test data reuse of the authorized device (FCC ID: MCQ-WPQ618, original grant date: 2021/11/15) for a new device (FCC ID: MCQ-EX50W & IC: 1846A-EX50W).

The new device is based on the original device's unmodified PCBA and antennas, with an added enclosure and an authorized cellular module. The differences are shown in the table 1 as below.

Table 1						
Diff	Original FCC: MCQ-WPQ618 IC: 1846A-WPQ618	New FCC: MCQ-EX50W IC: 1846A-EX50W	Remarks			
1	Without enclosure, PCBA only	With enclosure, and authorized cellular module	The original and the variant share the same PCBA and antennas. An enclosure was added, and an authorized cellular module was pre-installed into the reserved M.2 connector on the PCBA.			

According to the declaration above, this new device will reuse the test data of the original device. Spot checks were performed according to KDB 484596 D01v01. For details, please refer to table 2 below.



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Table 2							
Frequency and Part Rules	Test Items of FCC Part Rule	Original report No.	New report No.	Spot check remarks			
	6dB Bandwidth			Not verified			
	99% Bandwidth			Not verified			
	Output Power	210000011040	2106RSU041- U1 2106RSU040- C1	Verified output power			
2412~2462MHz	Power Spectral Density			Not verified			
Part 15.247	Band Edge / Out-of-Band Emissions	2106RSU040- U1		Not verified			
RSS-247	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	2106RSU040- C1		Verified Radiated Emissions			
	AC Conducted Emissions 150kHz - 30MHz			Not verified			
	26dB Bandwidth			Not verified			
	6dB Bandwidth			Not verified			
5125~5250MHz	Maximum Conducted Output Power	2106RSU040- U2 2106RSU040- C2	2106RSU041- U2 2106RSU040- C2	Verified output power			
5250~5350MHz 5470~5725MHz	Peak Power Spectral Density			Not verified			
5725~5850MHz	Frequency Stability			Not verified			
	Undesirable Emissions			Verified Radiated Emissions			
Part 15.407 RSS-247	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)			Tested with omni antennas			
	AC Conducted Emissions 150kHz - 30MHz			Not verified			



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Result: All verified result are within limits of the original data.

If you have any questions regarding this application, please feel free to contact me.

Sincerely,

Name: Harald Remmert

V. Rent

Title: Sr. Director of Engineering