

Request Letter

Subject:

Reuse the test data of authorized equipment

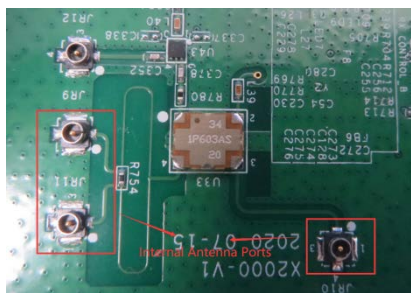
(FCC ID: **2ALGLX2000**, Original Grant Date: 04/08/2021, 2020; IC: **22505-X2000**, Approval Date: 04/14/2021)

Applicant: Cassia Networks Inc.

Dear Sirs,

This is to request for reuse the test data of authorized device (FCC ID: 2ALGLX2000, Original Grant Date: 04/08/2021, 2020; IC: 22505-X2000, Approval Date: 04/14/2021).

For new device (FCC ID: 2ALGLX2000-MP & IC: 22505-X2000-MP), it's a PCBA, same as the internal PCBA of original device (X2000). The difference is shown in the table 1 as below.

Table 1			
Diff	Original (FCC ID: 2ALGLX2000 IC: 22505-X2000)	New (FCC ID: 2ALGLX2000-MP IC: 22505-X2000-MP)	Remark
1	With Enclosure	Without Enclosure, only PCBA	Remove enclosure and do not change PCBA design.
2	With three internal BLE antennas	Without Internal BLE antenna	Remove BLE internal antennas, but reserve the antenna connect, the function of these internal antenna ports will be closed by software 
3	Without Omni Antenna	Add Omni antennas for BLE and Wi-Fi 2.4G and 5G	Add some omni antennas for BLE and Wi-Fi, but the Power setting and power will not be greater than the original device under directional antennas

According to the declaration as above, so this device reuses the test data of original device and adds some spot check verified data according to KDB 484596 D01v01, details of reuse data and spot check refer to table 2 as below.

Table 2				
Frequency and Part Rules	Test Items of FCC Part Rule	Original report No.	New report No.	Spot check message
2402~2480MHz Part 15.247 RSS-247	6dB Bandwidth	2012TW0006-U1 2012TW0006-C1	2105TW0001-U1 2105TW0001-C1	No verified
	99% Bandwidth			No verified
	Output Power			Verified the power and add the power under omni antenna
	Power Spectral Density			No verified
	Band Edge / Out-of-Band Emissions			No verified
	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)			Test with the omni antennas
	AC Conducted Emissions 150kHz - 30MHz			No verified
2412~2462MHz Part 15.247 RSS-247	6dB Bandwidth	2012TW0006-U2 2012TW0006-C2	2105TW0001-U2 2105TW0001-C2	No verified
	99% Bandwidth			No verified
	Output Power			Verified the power and add the power under omni antenna
	Power Spectral Density			No verified
	Band Edge / Out-of-Band Emissions			No verified
	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)			Test with the omni antennas
	AC Conducted Emissions 150kHz - 30MHz			No verified
5125~5250MHz 5250~5350MHz 5470~5725MHz 5725~5850MHz Part 15.407 RSS-247	26dB Bandwidth	2012TW0006-U3 2012TW0006-C3	2105TW0001-U3 2105TW0001-C3	No verified
	6dB Bandwidth			No verified
	Maximum Conducted Output Power			Verified the power and add the power under omni antenna
	Peak Power Spectral Density			No verified
	Frequency Stability			No verified
	Undesirable Emissions			Test with the omni antennas
	General Field Strength Limits (Restricted Bands			Test with the omni antennas

	and Radiated Emission Limits)			
	AC Conducted Emissions 150kHz - 30MHz			No verified
Result: All verified result is less than the original data.				

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

Sincerely,



Name: Weiguo Zhou

Position: Manager

Date: 2021-06-15