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RE

Declaration Letter

RE: WCM-Tx1 FCC: L2C0091TR IC: 3432A-0091TR HVIN original (PV1): 1356 0618 / 1356 0619 / 1356 0620 / 1356 0621 HVIN updated (PV2): 1356 4197 / 1356 4198 / 1356 4199 / 1356 4200

The GM Wireless Charging Module **WCM_tx1** has been updated from a PV1 to PV2 and we are seeking a FCC and ISED class 2 permissive change.

These differences are;

- 1) HW Change Antenna PCB
 - Layers 3 & 4 swapped to improve PCB flatness / manufacturing quality
 - No copper change

Emissions and immunity evaluated by 3rd party: no change from PV1 to PV2

- 2) HW Change BOM change
- Tuning of NFC matching to compensate for slight change in NFC antenna impedance due to antenna board layer swap
- Populate C181 100uF capacitor on output of 5V DC converter
- BOM change only, no layout change

Emissions and immunity evaluated by 3rd party: no change from PV1 to PV2

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3) HW Change – New circuit

• New circuit added for receiver demodulation

Emissions and immunity evaluated by 3rd party: no change from PV1 to PV2

4) HW Change – New circuit

• New level shifter circuit to monitor QI_SW1 at micro Emissions and immunity evaluated by 3rd party: no change from PV1 to PV2

- 5) HW Change BOM change
 - Component value changes to improve scaling of signals to be read by microcontroller ADC
 - No layout change

Emissions and immunity evaluated by 3rd party: no change from PV1 to PV2

EMC Comparison PV1 \rightarrow PV2

Background

- Based on the changes in hardware from PV1 to PV2, no emissions impact is expected
- Emission and immunity testing was performed by a 3^{rd} party to verify they are equivalent in PV2 vs PV1

Sincerely,

John Gettel