



# SPOT CHECK EVALUATION

FCC ID : UZ7MC220J  
Equipment : Mobile computer  
Brand Name : Zebra  
Model Name : MC220J  
Applicant : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
Manufacturer : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
Standard : FCC Part 15 Subpart C §15.247  
FCC Part 15 Subpart E §15.407

The product was received on Jun. 12, 2020 and testing was started from Jun. 30, 2020 and completed on Aug. 21, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this spot check data report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

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## History of this test report

| Version | Description             | Issued Date   |
|---------|-------------------------|---------------|
| 01      | Initial issue of report | Sep. 08, 2020 |
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## **1. Introduction Section**

The FCC ID: UZ7MC220K (original model) and FCC ID: UZ7MC220J (variant model) are HW identical except the NFC function and camera. Other than these two items, the RF and antenna design is the same. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS) and FCC Part 15E (equipment class: NII) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: UZ7MC220J).



## **2. Difference Section**

The difference between UZ7MC220K and UZ7MC220J are NFC function and camera.

Other than these two items, the RF and antenna design is the same.

The details of similarity and difference can be found in confidential documents.



### 3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model. Detail spot check test result can be found in the variant model reports, please refer to detail section table in section 4.

Summary of the spot check:

| Test Item                                          | Mode                | UZ7MC220K<br>Parent<br>Worst Result | UZ7MC220J<br>Variant<br>Worst Result | Difference (dB) |
|----------------------------------------------------|---------------------|-------------------------------------|--------------------------------------|-----------------|
| <b>Conducted Power<br/>(dBm)</b>                   | BT-3DH1             | 10.25                               | 10.24                                | -0.01           |
|                                                    | BLE5.0 (2Mbps)      | 7.8                                 | 7.2                                  | -0.6            |
|                                                    | WLAN 2.4G (SISO)    | 20.7                                | 20.3                                 | -0.4            |
|                                                    | WLAN 5G B1-3 (SISO) | 22.2                                | 22.2                                 | 0               |
|                                                    | WLAN 5G B4 (SISO)   | 21.3                                | 21.0                                 | -0.3            |
| <b>Radiated Spurious<br/>Emission<br/>(dBuV/m)</b> | BT-3DH1             | 50.58                               | 48.41                                | -2.17           |
|                                                    | BLE5.0 (2Mbps)      | 56.84                               | 54.26                                | -2.32           |
|                                                    | WLAN 2.4G (SISO)    | 63.77                               | 63.17                                | -0.6            |
|                                                    | WLAN 5G B1-3 (SISO) | 66.84                               | 66.88                                | 0.04            |
|                                                    | WLAN 5G B4 (SISO)   | 90.83                               | 88.88                                | -1.95           |



## 4. Reference detail Section

| Rule Part | Equipment Class | Wireless Technology   | Frequency Band (MHz)                             | Reference FCC ID (Parent) | Type Grant/ Permissive Change | Reference Title              | FCC ID Filling (Variant) |
|-----------|-----------------|-----------------------|--------------------------------------------------|---------------------------|-------------------------------|------------------------------|--------------------------|
| 15C       | DTS             | Bluetooth-LE<br>Wi-Fi | 2400~2483.5                                      | UZ7MC220K                 | Original Grant                | FR040803-02B<br>FR040803-02C | UZ7MC220J                |
|           | DSS             | Bluetooth             | 2400~2483.5                                      | UZ7MC220K                 | Original Grant                | FR040803-02A                 | UZ7MC220J                |
| 15E       | NII             | Wi-Fi                 | 5150~5250<br>5250~5350<br>5470~5725<br>5725~5850 | UZ7MC220K                 | Original Grant                | FR040803-02E<br>FR040803-02F | UZ7MC220J                |
|           |                 | DFS                   | 5250~5350<br>5470~5725                           | UZ7MC220K                 | Original Grant                | FZ040803-02                  | UZ7MC220J                |

END of this report