



# SPOT CHECK EVALUATION

FCC ID : UZ7EC55BK  
Equipment : Enterprise computer  
Brand Name : Zebra  
Model Name : EC55BK  
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 Jul. 22, 2020 and testing was started from Sep. 23, 2020 and completed on Oct. 05, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this spot check 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*

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Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## History of this test report

| Version | Description             | Issued Date   |
|---------|-------------------------|---------------|
| 01      | Initial issue of report | May. 05, 2020 |
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## 1. Introduction Section

The FCC ID: UZ7EC55AK (original model) and FCC ID: UZ7EC55BK (variant model) are HW identical, the main differences exist per SKUs are related to RF Bands supported. 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: UZ7EC55BK).



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## **2. Difference Section**

The difference between UZ7EC55AK and UZ7EC55BK is the performance for cellular bands.

The details of similarity and difference can be found in Operation Description.



### 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 and the verification test results Similar to the original FCC ID. Detail spot check test result can be found in the variant model report, please refer to detail section table in section 4.

Based on the same WLAN Chipset, the same conducted power of EC55AK was used for the following verification

Summary of the spot check:

| Test Item                                  | Mode                | UZ7EC55AK Worst Result | UZ7EC55BK Worst Result | Difference (dB) |
|--------------------------------------------|---------------------|------------------------|------------------------|-----------------|
| <b>Conducted Power (dBm)</b>               | BT-DH1              | 4.25                   | 4.08                   | -0.17           |
|                                            | BLE5.0 (2Mbps)      | 5.8                    | 5.6                    | -0.2            |
|                                            | WLAN 2.4G (MIMO)    | 25.21                  | 25.15                  | -0.06           |
|                                            | WLAN 5G B1-3 (MIMO) | 19.91                  | 19.86                  | -0.05           |
|                                            | WLAN 5G B4 (MIMO)   | 19.86                  | 19.86                  | 0               |
| <b>Radiated Spurious Emission (dBuV/m)</b> | BT-3DH1             | 48.05                  | 47.56                  | -0.49           |
|                                            | BLE5.0 (2Mbps)      | 57.39                  | 57.9                   | 0.51            |
|                                            | WLAN 2.4G (MIMO)    | 65.63                  | 64.53                  | -1.1            |
|                                            | WLAN 5G B1-3 (MIMO) | 66.01                  | 66.34                  | 0.33            |
|                                            | WLAN 5G B4 (MIMO)   | 76.34                  | 74.44                  | -1.9            |



## 4. Test Location

|                    |                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                   |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| Test Site No.      | <b>Sporton Site No.</b><br>TH05-HY                                                                                    |

|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                       |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b><br>03CH16-HY                                                                                                      |

|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                       |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b><br>03CH11-HY                                                                                                      |

|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                       |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b><br>03CH13-HY                                                                                                      |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007



## 5. 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                                      | UZ7EC55AK                 | Original Grant                | FR070401B<br>FR070401C | UZ7EC55BK                |
|           | DSS             | Bluetooth             | 2400~2483.5                                      | UZ7EC55AK                 | Original Grant                | FR070401A              | UZ7EC55BK                |
| 15E       | NII             | Wi-Fi                 | 5150~5250<br>5250~5350<br>5470~5725<br>5725~5850 | UZ7EC55AK                 | Original Grant                | FR070401E<br>FR070401F | UZ7EC55BK                |

END of this report