

# TEST REPORT

Product Name: Droid820Covid19  
Trademark: N/A  
Model Number: Droid820Covid19  
Prepared For: AOK Displays Manufacturing Co., Ltd  
Address: 6th floor, Sanding Commerce buiding, Yangmei, Bantian, Longgang, Shenzhen, China  
Manufacturer: AOK Displays Manufacturing Co., Ltd  
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Sample Received Date: Mar. 15, 2020  
Sample tested Date: Mar. 15, 2020 to May 17, 2020  
Issue Date: Aug. 19, 2020  
Report No.: BCTC2008001665-1E  
Test Standards EN 62311:2008  
Test Results PASS  
Remark: This is RED Health test report.  
All test data come from the report of No. BCTC2003001135-1E

Compiled by:



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Approved by:



Zero Zhou/Manager

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*(Note: N/A means not applicable)*

## 1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2008001665-1E	Aug. 19, 2020	Original	Valid

## 2. PRODUCT INFORMATION AND TEST SETUP

### 2.1 Product Information

Model(s):	Droid820Covid19
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11b/g/n
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	WiFi: IEEE 802.11b/g/n HT20: 2412-2472MHz Bluetooth: 2402-2480MHz
Max. RF output power:	WiFi (2.4G) : 11.30dBm Bluetooth:2.94 dBm BLE:5.37 dBm
Type of Modulation:	WiFi: DSSS, OFDM Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK BLE:GFSK
Antenna installation:	Internal antenna
Antenna Gain:	1dBi
Ratings:	AC230V/50Hz
Adapter:	Model: GKYPB0300120CN Input: 100-240V ~50/60Hz 1A Max Output: 12V---3A

### 3. HEALTH REQUIREMENTS

#### 3.1 Limits

According to Council Recommendation: the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz, unperturbed RMS values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field ( $\mu\text{T}$ )	Equivalent plane wave power density Seq (W/m <sup>2</sup> )
0-1 Hz	-	$3.2 \times 10^4$	$4 \times 10^4$	-
1-8 Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25 Hz	10000	$4000 / f$	$5000 / f$	-
0.025-0.8 kHz	$250 / f$	$4 / f$	$5 / f$	-
0.8-3 kHz	$250 / f$	5	6.25	-
3-150 kHz	87	5	6.25	-
0.15-1 MHz	87	$0.73 / f$	$0.92 / f$	-
1-10 MHz	$87 / f^{1/2}$	$0.73 / f$	$0.92 / f$	-
10-400 MHz	28	0.073	0.095	2
400-2000 MHz	$1.375 f^{1/2}$	$0.0037 f^{1/2}$	$0.0046 f^{1/2}$	$f / 200$
2-300 GHz	61	0.16	0.2	10

Note:

- f as indicated in the frequency range column.
- For frequencies between 100 kHz and 10 GHz, Seq, E<sup>2</sup>, H<sup>2</sup> and B<sup>2</sup> are to be averaged over any six-minute period.
- For frequencies exceeding 10 GHz, Seq, E<sup>2</sup>, H<sup>2</sup> and B<sup>2</sup> are to be averaged over any  $68 / f^{1.05}$  minute period (f in GHz).

### 3.2 Exposure Evaluation

From Council Recommendation 1999/519/EC table 2, the maximum power density is 10 W/m<sup>2</sup>.

Power density (S) is calculated by the following formula:

$$S = PG * \text{Duty factor} / 4\pi R^2$$

P = Peak Power Input to antenna (Watts)

G = Antenna Gain (numeric)

R = distance to the center of radiation of antenna (in meter) = 0.20 m

Note:

1)  $P \text{ (Watts)} = (10^{(\text{dBm} / 10)}) / 1000$

2)  $G \text{ (Antenna gain in numeric)} = 10^{(\text{Antenna gain in dBi} / 10)}$

3) Duty factor = 1.0

4)  $\pi = 3.142$

Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (W)	Duty factor	Calculate d RF Exposure (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )
WiFi	1	1.259	11.30	0.013	1.00	0.0338	10
Bluetooth	1	1.259	2.94	0.002	1.00	0.0049	10
BLE	1	1.259	5.37	0.003	1.00	0.0086	10

## 4. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



EUT Photo 3

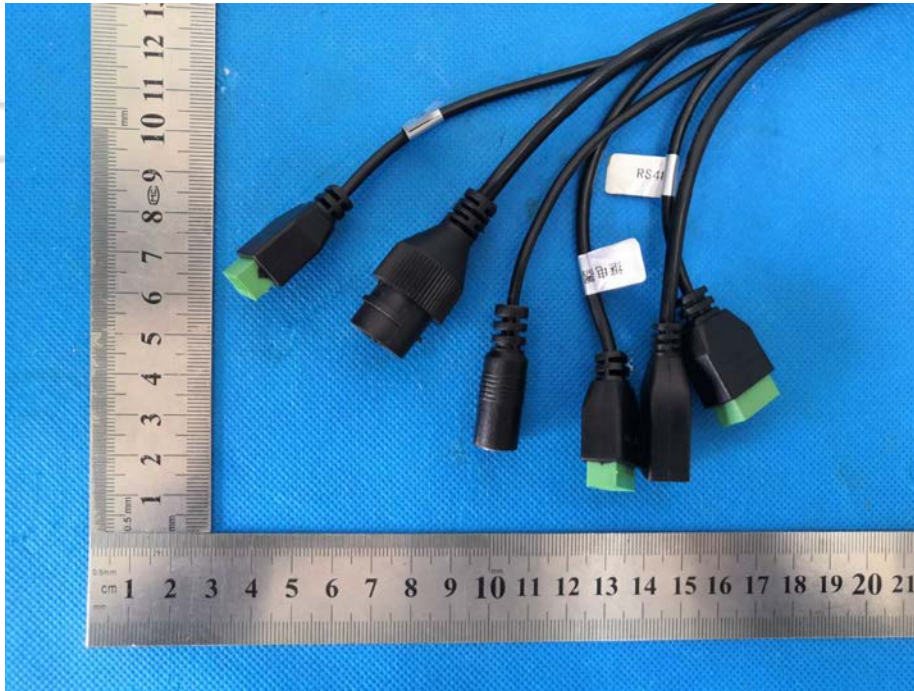


EUT Photo 4





EUT Photo 5



EUT Photo 6



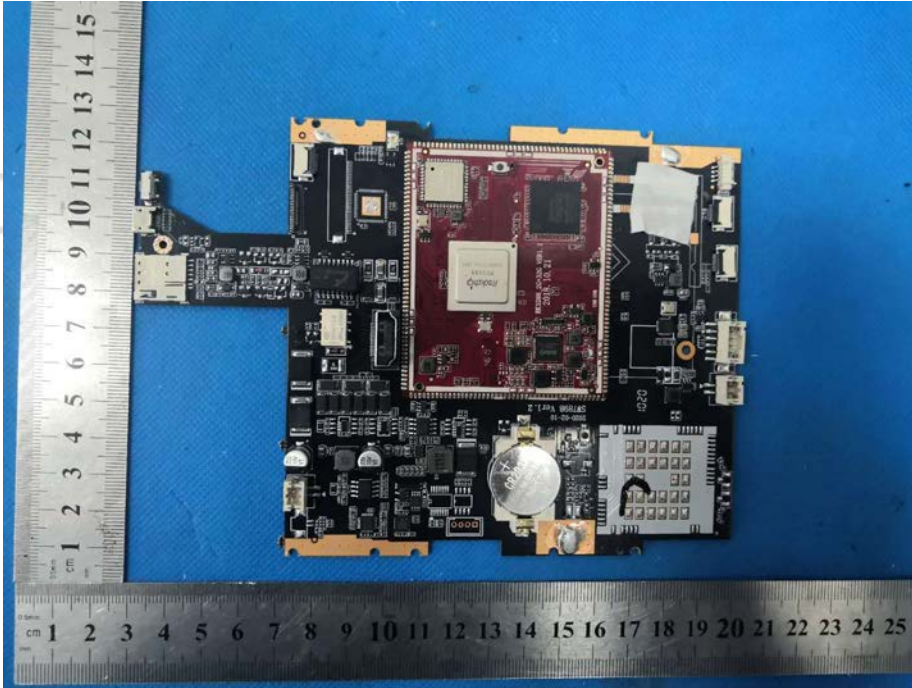
EUT Photo 7



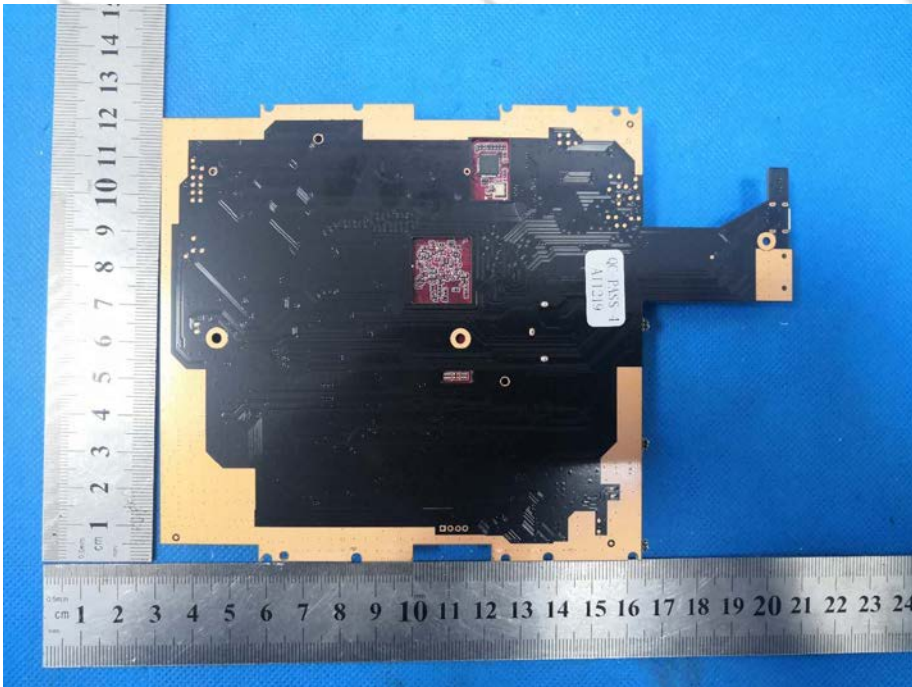
EUT Photo 8



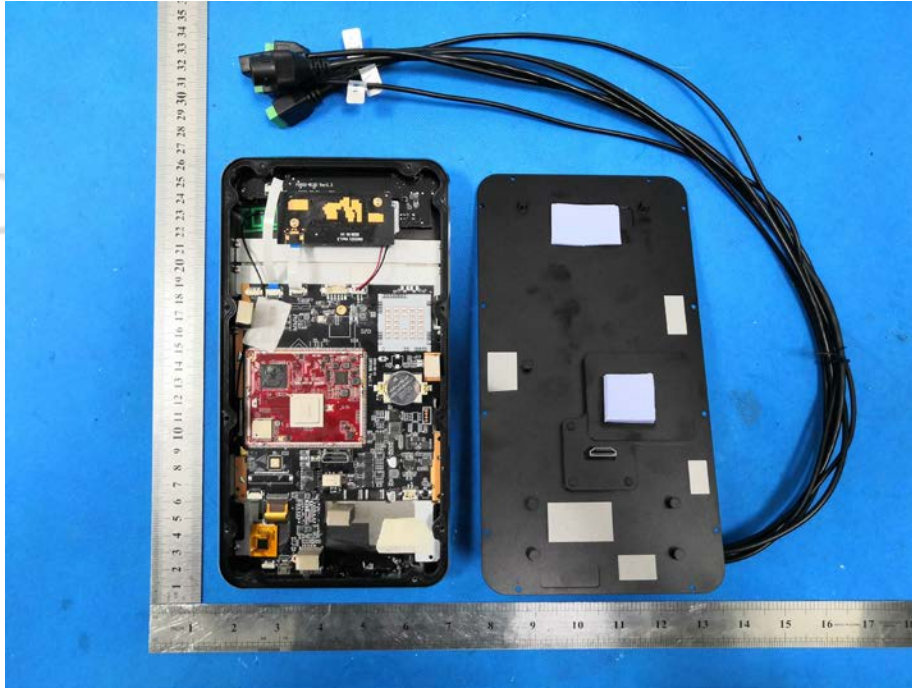
EUT Photo 9



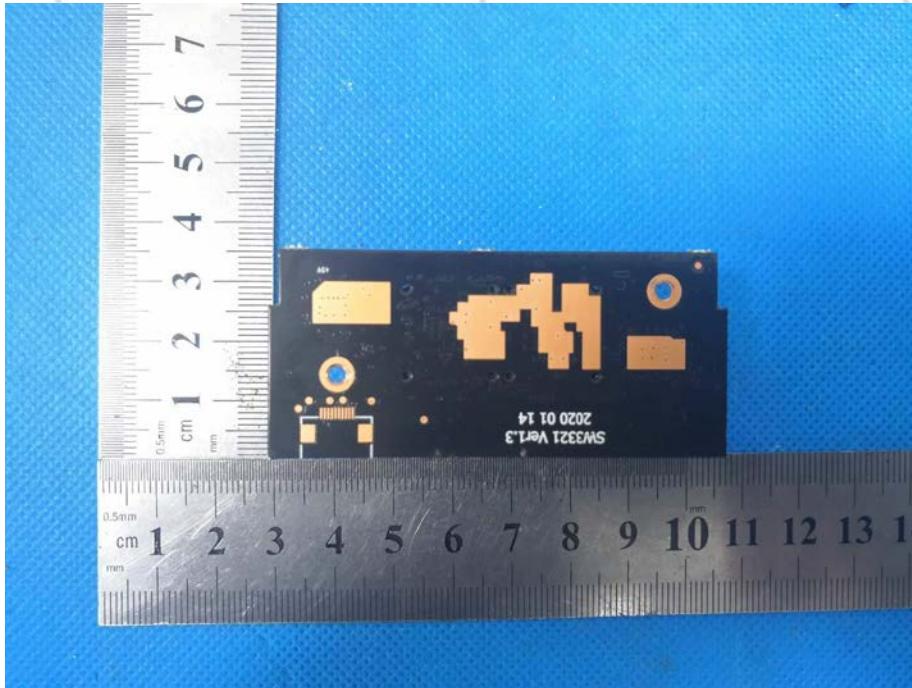
EUT Photo 10



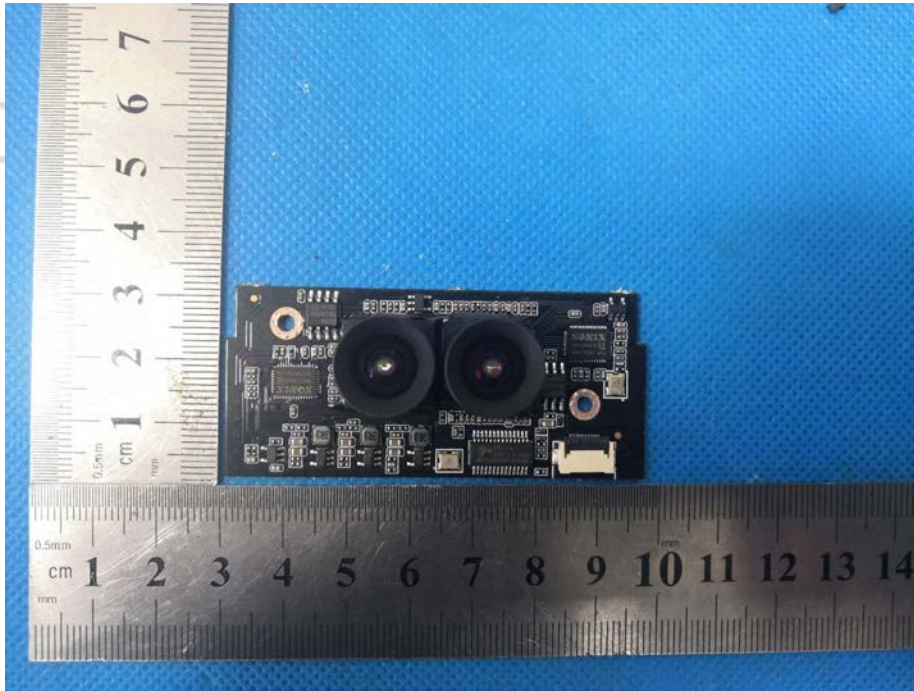
EUT Photo 11



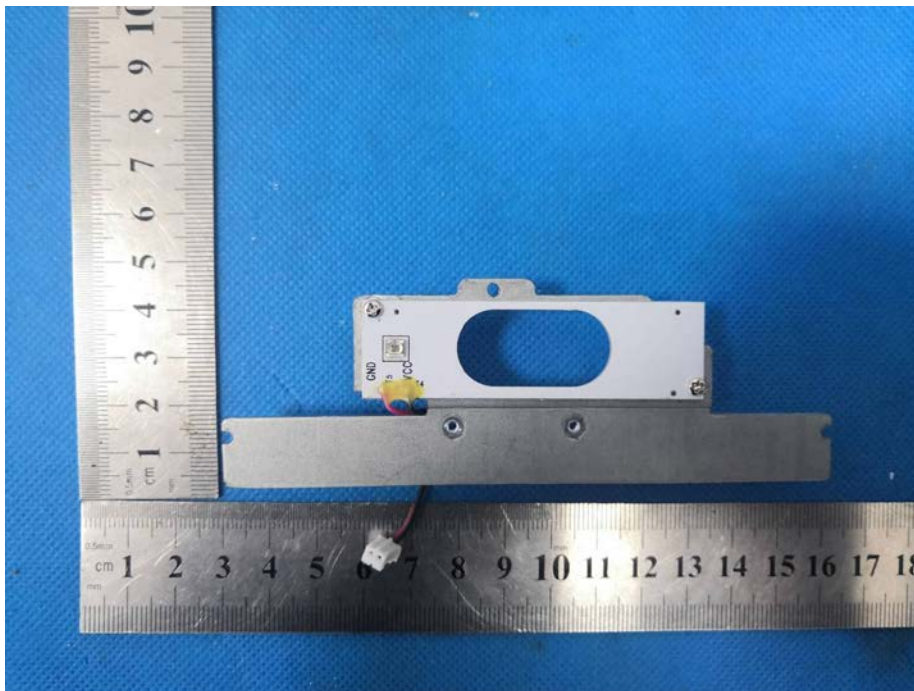
EUT Photo 12



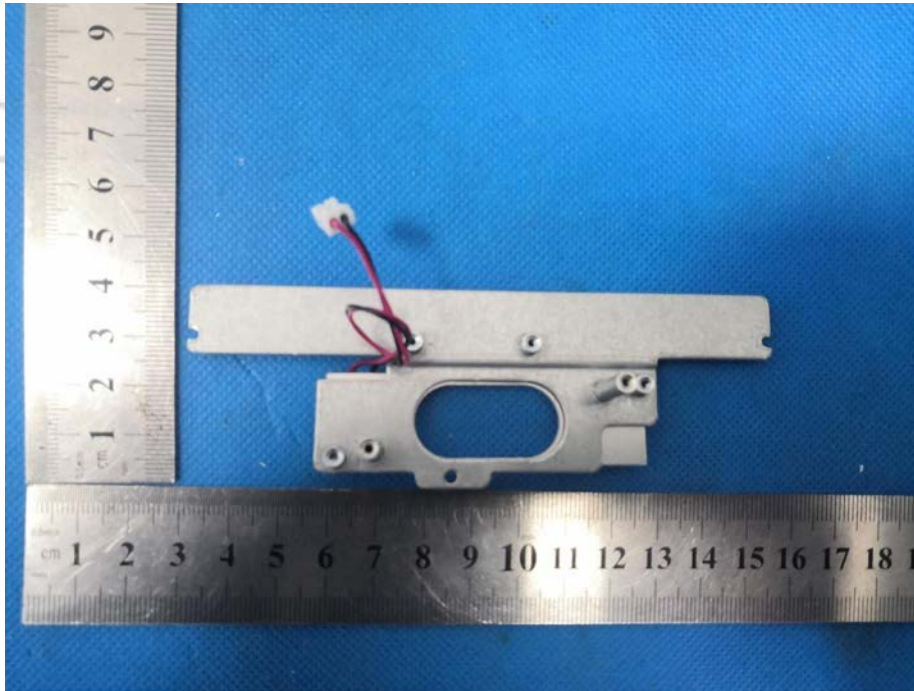
EUT Photo 13



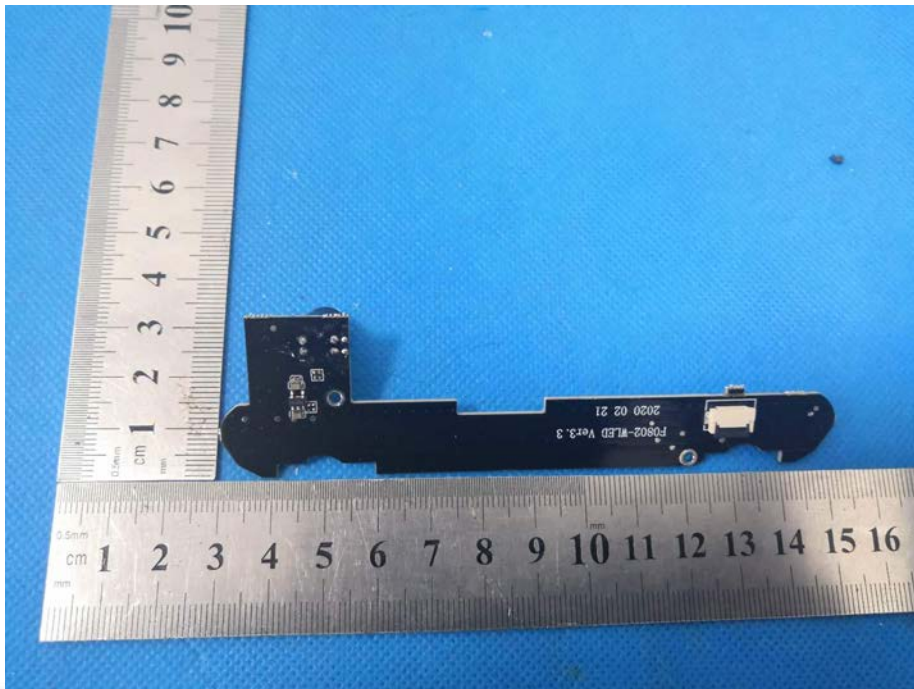
EUT Photo 14



EUT Photo 15



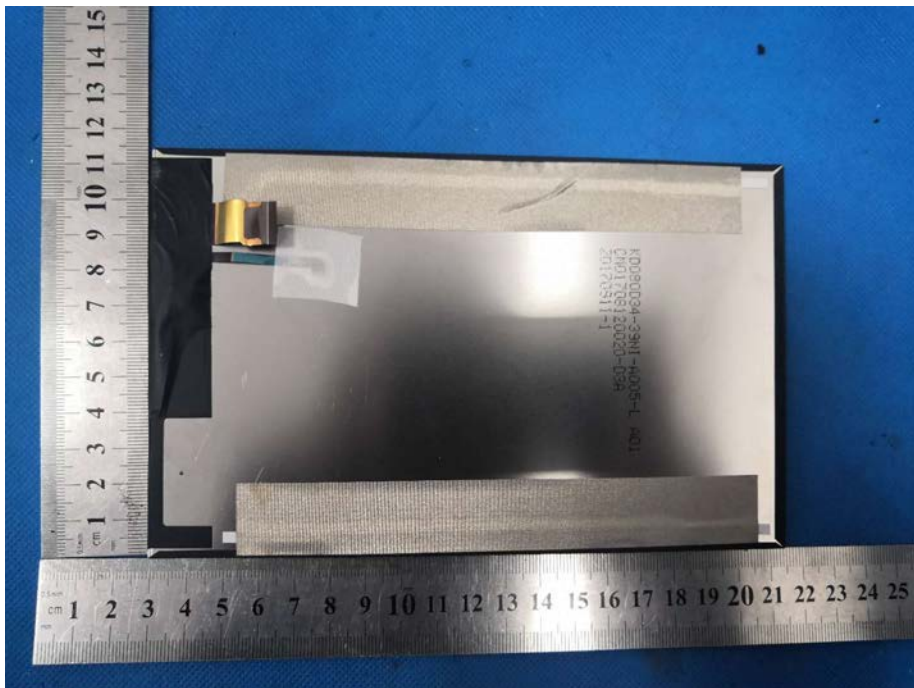
EUT Photo 16



EUT Photo 17



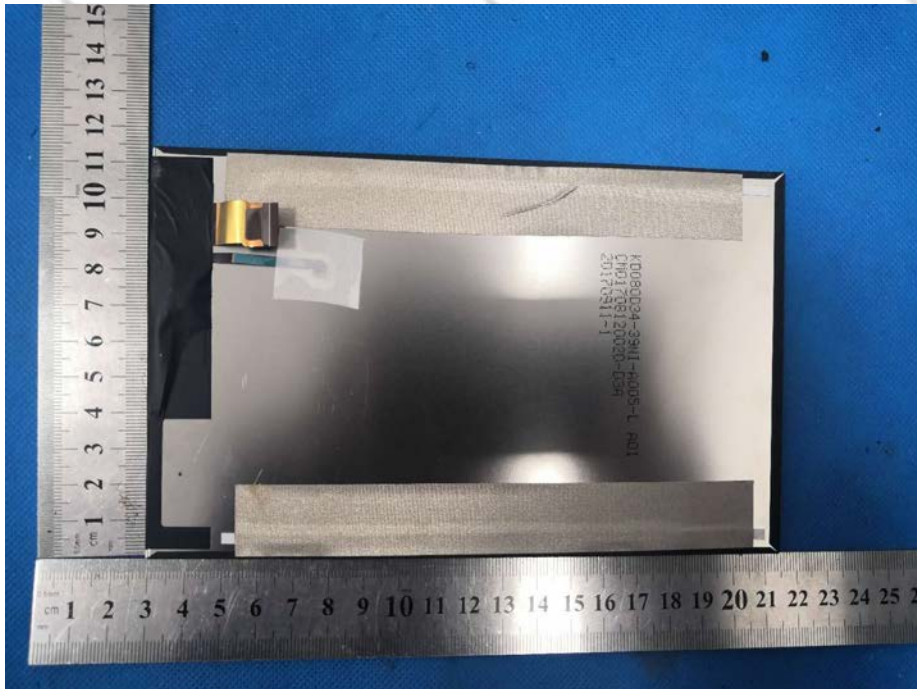
EUT Photo 18



EUT Photo 19



EUT Photo 20







EUT Photo 21



\*\*\*\*\* END OF REPORT \*\*\*\*\*