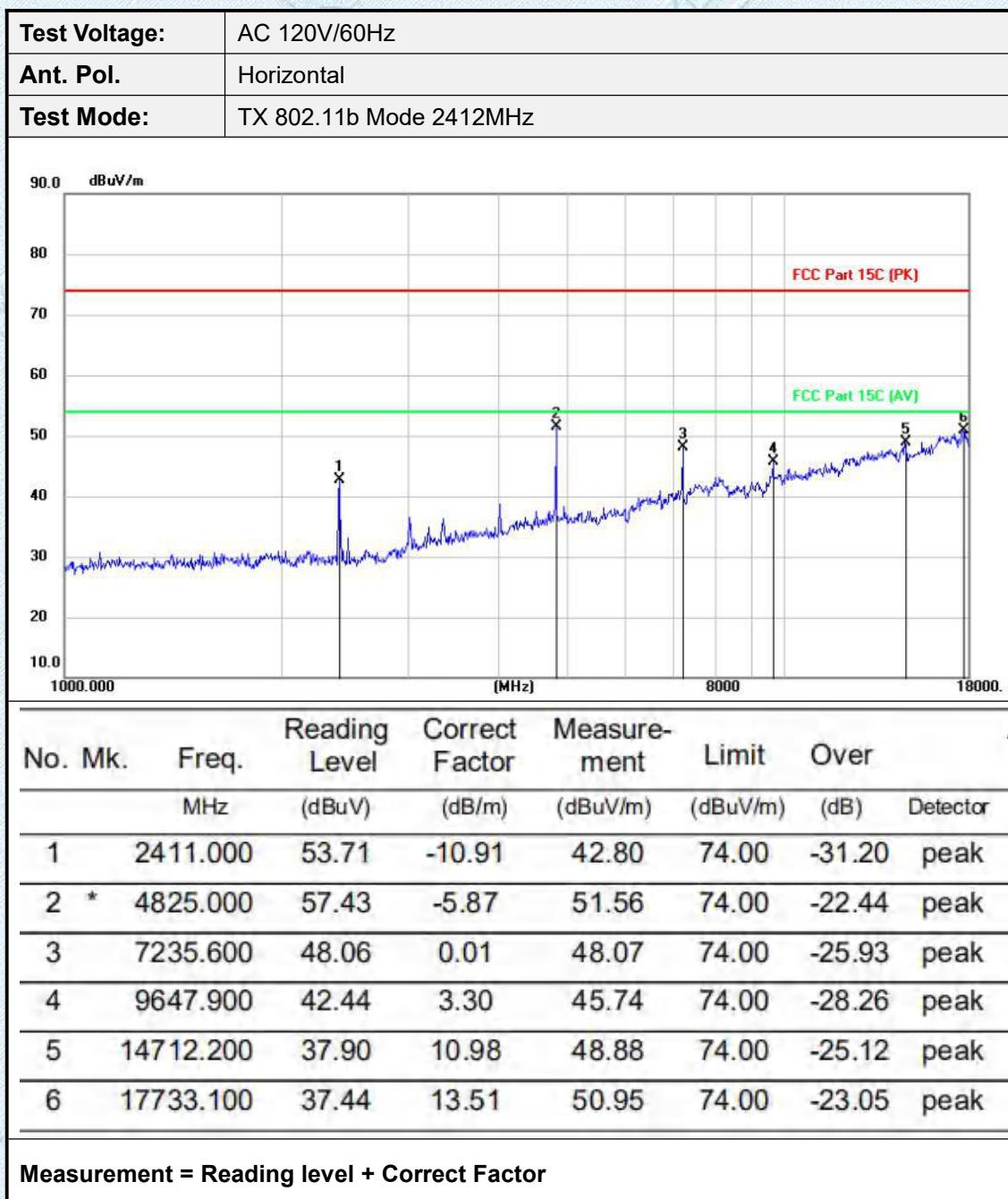


TRF No. FCC Part 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : info@gdksign.cn Web: www.gdksign.com

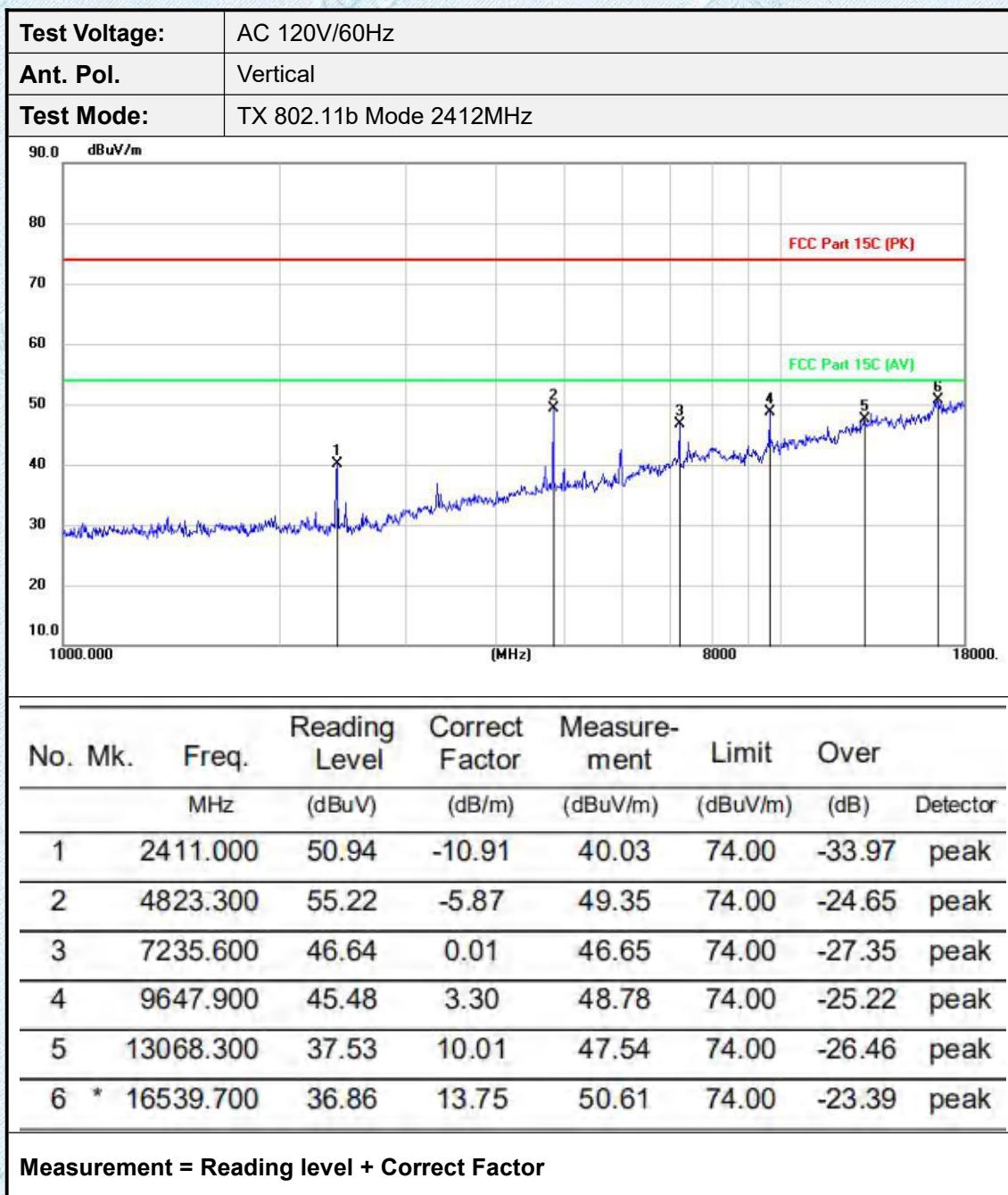
Adobe 1GHz



TRF No. FCC Part 15.247_R1

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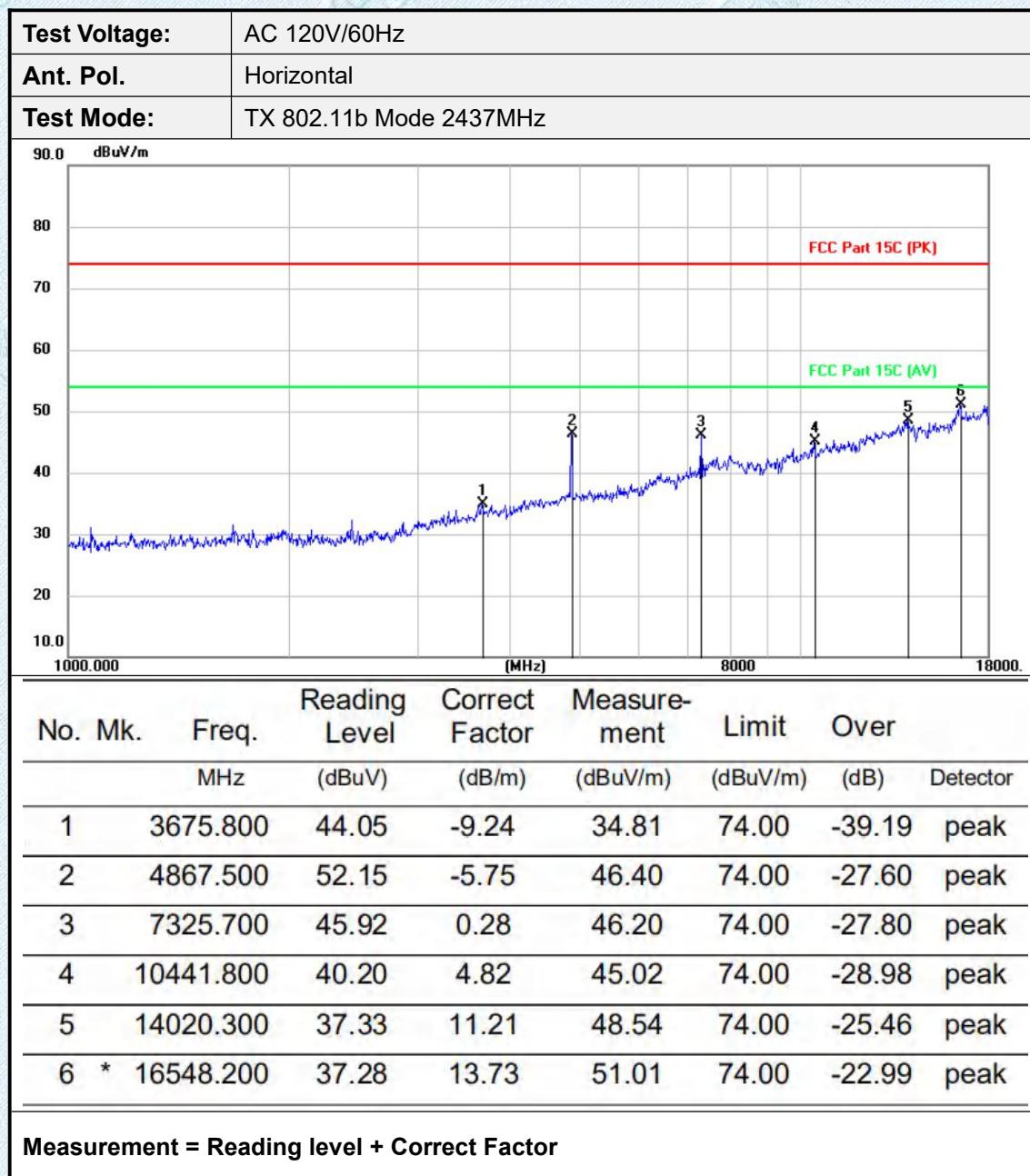
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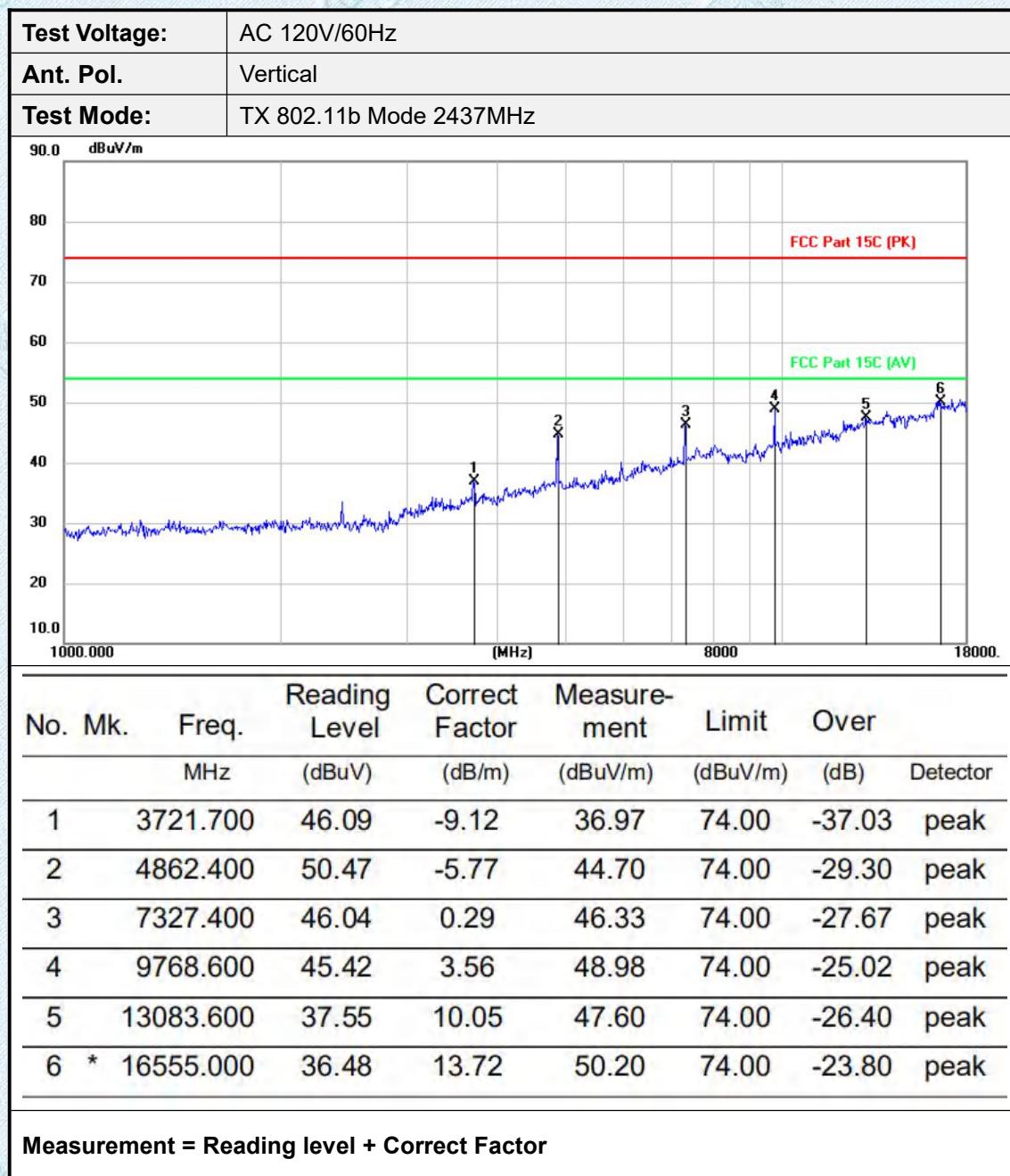
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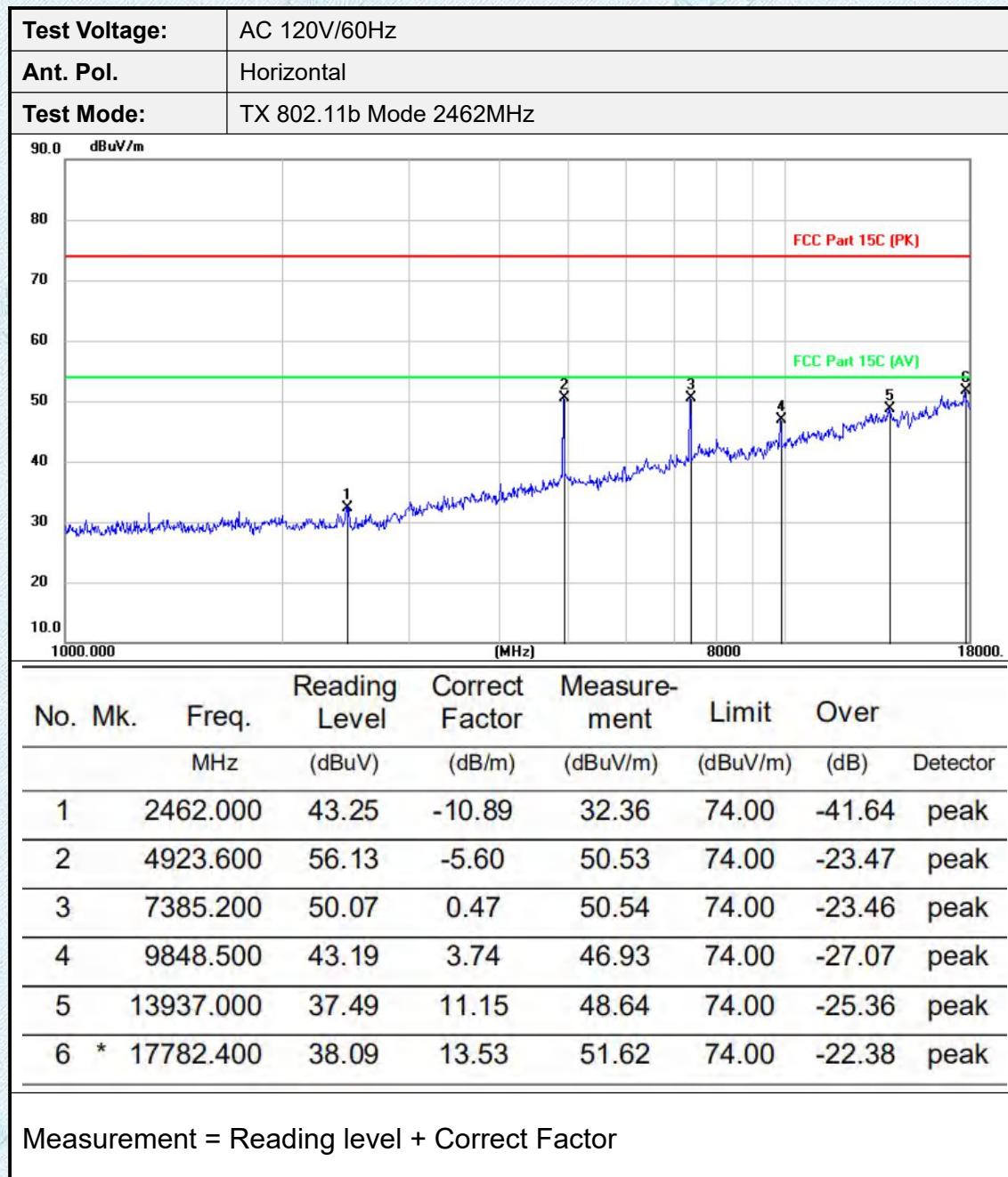
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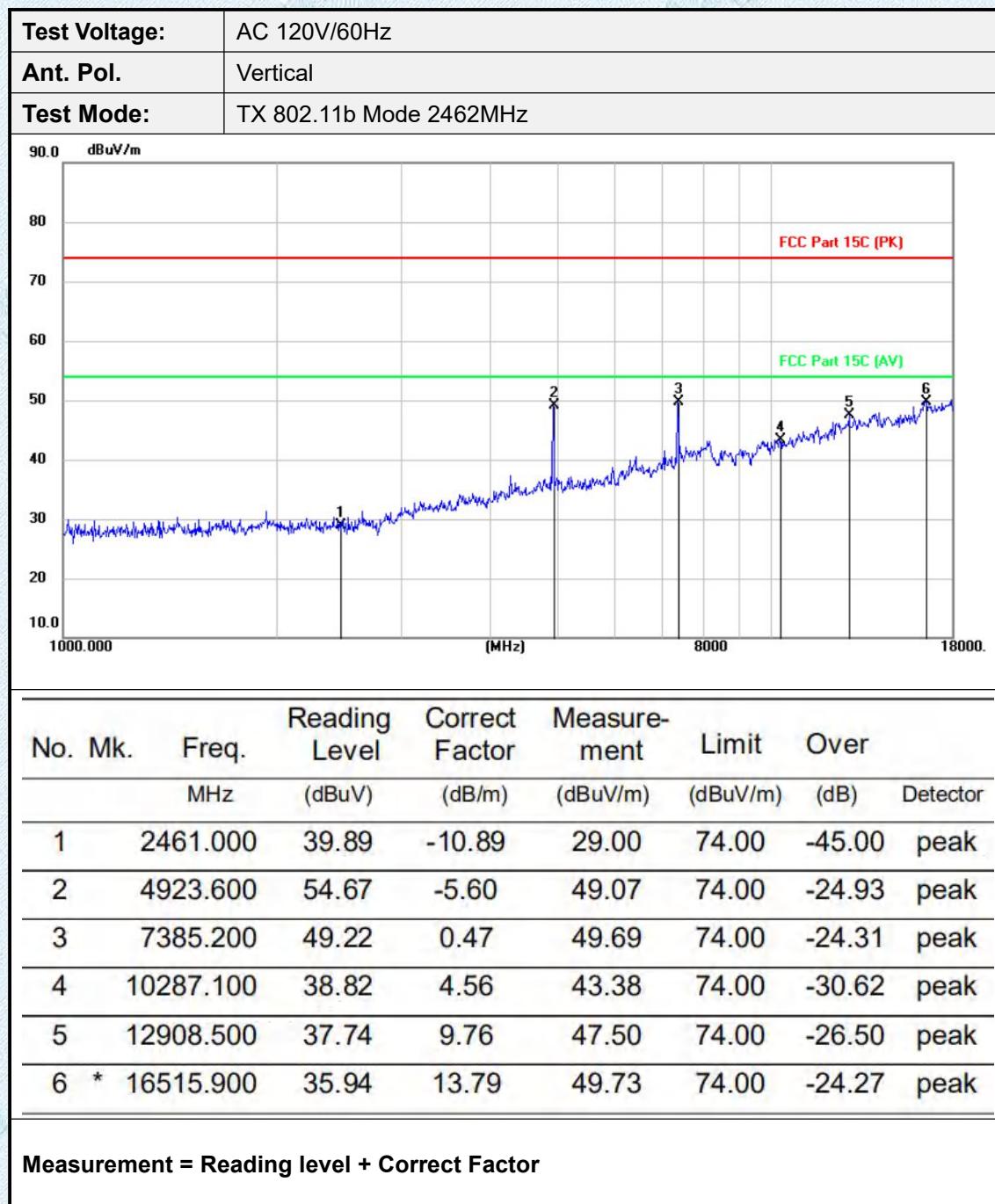
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3.8. CONDUCTED EMISSION

Limit

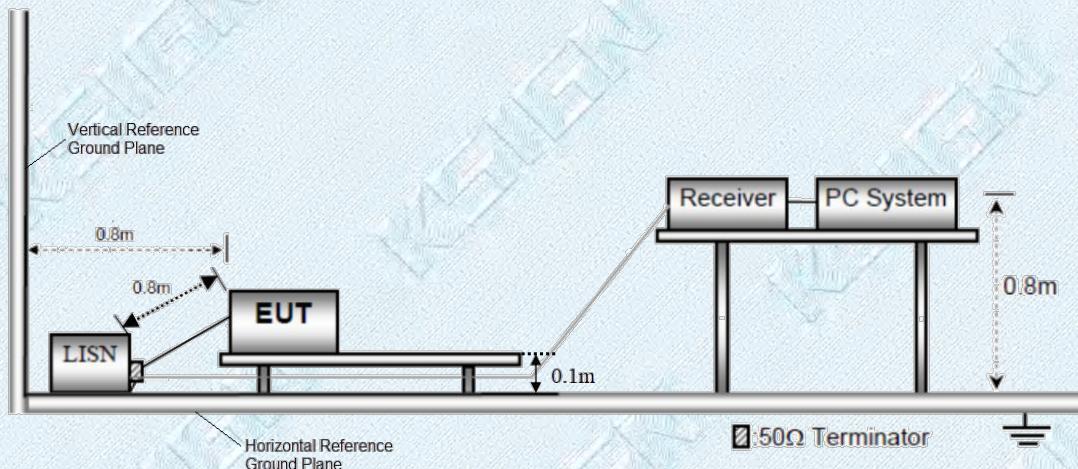
Conducted Emission Test Limit

| Frequency | Maximum RF Line Voltage (dB μ V) | |
|---------------|--------------------------------------|---------------|
| | Quasi-peak Level | Average Level |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 0.1m above the conducting ground plane. The vertical conducting plane was located 80 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode:

Please refer to the clause 2.2.

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Test Results

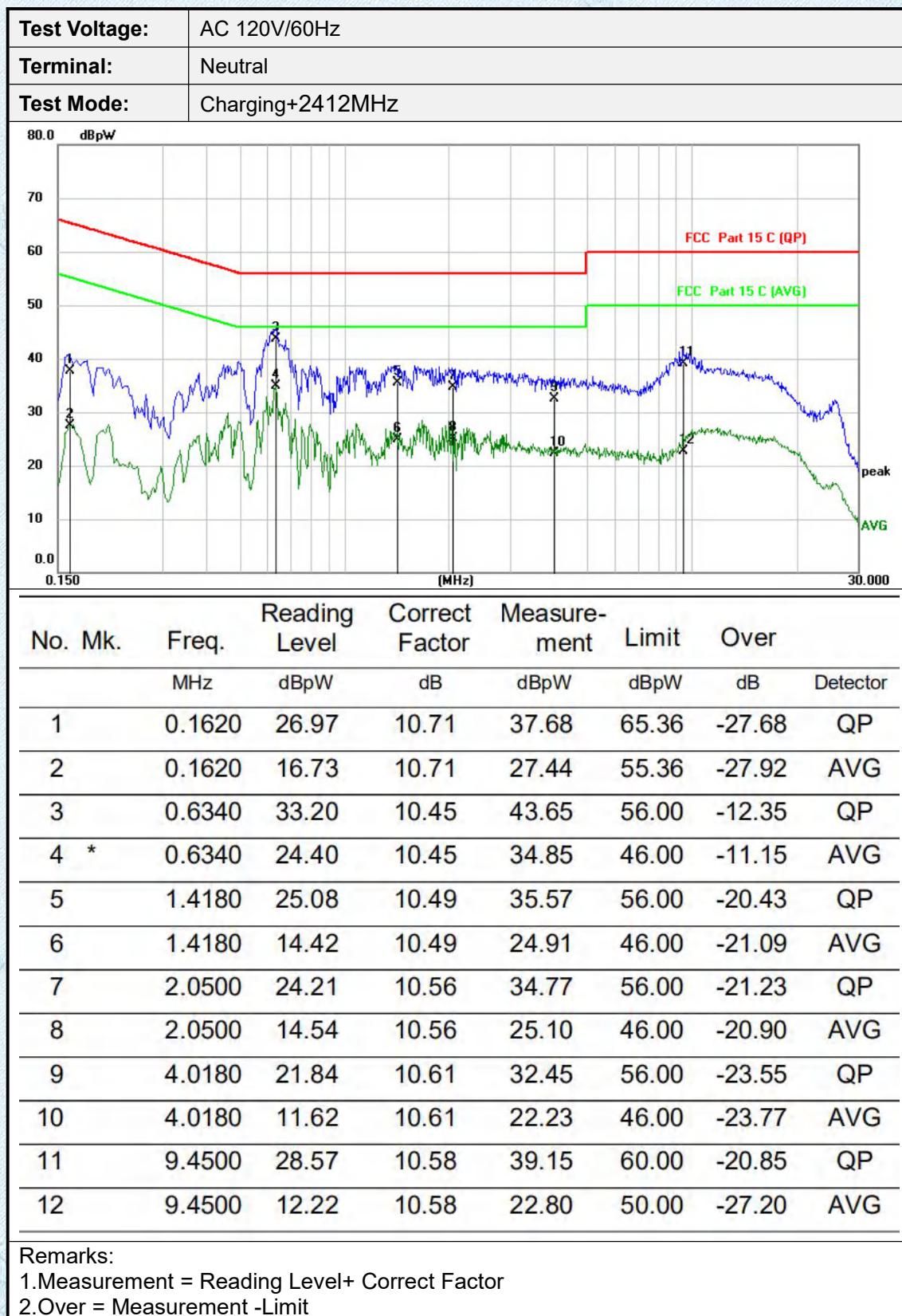
Pre-scan 802.11b/g/n(HT20,HT40) modulation, and found the 802.11b modulation 2412MHz which it is worse case, so only show the test data for worse case.

| Test Voltage: | AC 120V/60Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|--------|---------------|----------------|--------------|-------|--------|----------|-----|-------|---------------|----------------|--------------|-------|------|--|--|-----|------|----|------|------|----|----------|---|--|--------|-------|-------|-------|-------|--------|----|---|--|--------|-------|-------|-------|-------|--------|-----|---|--|--------|-------|-------|-------|-------|--------|----|---|--|--------|-------|-------|-------|-------|--------|-----|---|---|--------|-------|-------|-------|-------|--------|----|---|--|--------|-------|-------|-------|-------|--------|-----|---|--|--------|-------|-------|-------|-------|--------|----|---|--|--------|-------|-------|-------|-------|--------|-----|---|--|--------|-------|-------|-------|-------|--------|----|----|--|--------|-------|-------|-------|-------|--------|-----|----|--|--------|-------|-------|-------|-------|--------|----|----|--|--------|-------|-------|-------|-------|--------|-----|
| Terminal: | Line | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Mode: | Charging+2412MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measure-ment</th> <th>Limit</th> <th>Over</th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBpW</th> <th>dB</th> <th>dBpW</th> <th>dBpW</th> <th>dB</th> <th>Detector</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td>0.1660</td><td>27.72</td><td>10.72</td><td>38.44</td><td>65.16</td><td>-26.72</td><td>QP</td></tr> <tr><td>2</td><td></td><td>0.1660</td><td>18.58</td><td>10.72</td><td>29.30</td><td>55.16</td><td>-25.86</td><td>AVG</td></tr> <tr><td>3</td><td></td><td>0.5140</td><td>29.52</td><td>10.39</td><td>39.91</td><td>56.00</td><td>-16.09</td><td>QP</td></tr> <tr><td>4</td><td></td><td>0.5140</td><td>13.11</td><td>10.39</td><td>23.50</td><td>46.00</td><td>-22.50</td><td>AVG</td></tr> <tr><td>5</td><td>*</td><td>0.6340</td><td>34.41</td><td>10.47</td><td>44.88</td><td>56.00</td><td>-11.12</td><td>QP</td></tr> <tr><td>6</td><td></td><td>0.6340</td><td>22.54</td><td>10.47</td><td>33.01</td><td>46.00</td><td>-12.99</td><td>AVG</td></tr> <tr><td>7</td><td></td><td>1.6660</td><td>28.27</td><td>10.48</td><td>38.75</td><td>56.00</td><td>-17.25</td><td>QP</td></tr> <tr><td>8</td><td></td><td>1.6660</td><td>16.52</td><td>10.48</td><td>27.00</td><td>46.00</td><td>-19.00</td><td>AVG</td></tr> <tr><td>9</td><td></td><td>3.3220</td><td>26.42</td><td>10.62</td><td>37.04</td><td>56.00</td><td>-18.96</td><td>QP</td></tr> <tr><td>10</td><td></td><td>3.3220</td><td>16.38</td><td>10.62</td><td>27.00</td><td>46.00</td><td>-19.00</td><td>AVG</td></tr> <tr><td>11</td><td></td><td>9.1820</td><td>29.63</td><td>10.60</td><td>40.23</td><td>60.00</td><td>-19.77</td><td>QP</td></tr> <tr><td>12</td><td></td><td>9.1820</td><td>15.64</td><td>10.60</td><td>26.24</td><td>50.00</td><td>-23.76</td><td>AVG</td></tr> </tbody> </table> | | | | | | | | No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | | MHz | dBpW | dB | dBpW | dBpW | dB | Detector | 1 | | 0.1660 | 27.72 | 10.72 | 38.44 | 65.16 | -26.72 | QP | 2 | | 0.1660 | 18.58 | 10.72 | 29.30 | 55.16 | -25.86 | AVG | 3 | | 0.5140 | 29.52 | 10.39 | 39.91 | 56.00 | -16.09 | QP | 4 | | 0.5140 | 13.11 | 10.39 | 23.50 | 46.00 | -22.50 | AVG | 5 | * | 0.6340 | 34.41 | 10.47 | 44.88 | 56.00 | -11.12 | QP | 6 | | 0.6340 | 22.54 | 10.47 | 33.01 | 46.00 | -12.99 | AVG | 7 | | 1.6660 | 28.27 | 10.48 | 38.75 | 56.00 | -17.25 | QP | 8 | | 1.6660 | 16.52 | 10.48 | 27.00 | 46.00 | -19.00 | AVG | 9 | | 3.3220 | 26.42 | 10.62 | 37.04 | 56.00 | -18.96 | QP | 10 | | 3.3220 | 16.38 | 10.62 | 27.00 | 46.00 | -19.00 | AVG | 11 | | 9.1820 | 29.63 | 10.60 | 40.23 | 60.00 | -19.77 | QP | 12 | | 9.1820 | 15.64 | 10.60 | 26.24 | 50.00 | -23.76 | AVG |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MHz | dBpW | dB | dBpW | dBpW | dB | Detector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 0.1660 | 27.72 | 10.72 | 38.44 | 65.16 | -26.72 | QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 0.1660 | 18.58 | 10.72 | 29.30 | 55.16 | -25.86 | AVG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 0.5140 | 29.52 | 10.39 | 39.91 | 56.00 | -16.09 | QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 0.5140 | 13.11 | 10.39 | 23.50 | 46.00 | -22.50 | AVG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | * | 0.6340 | 34.41 | 10.47 | 44.88 | 56.00 | -11.12 | QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 0.6340 | 22.54 | 10.47 | 33.01 | 46.00 | -12.99 | AVG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 1.6660 | 28.27 | 10.48 | 38.75 | 56.00 | -17.25 | QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 1.6660 | 16.52 | 10.48 | 27.00 | 46.00 | -19.00 | AVG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | 3.3220 | 26.42 | 10.62 | 37.04 | 56.00 | -18.96 | QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | 3.3220 | 16.38 | 10.62 | 27.00 | 46.00 | -19.00 | AVG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | 9.1820 | 29.63 | 10.60 | 40.23 | 60.00 | -19.77 | QP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | 9.1820 | 15.64 | 10.60 | 26.24 | 50.00 | -23.76 | AVG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: 1.Measurement = Reading Level+ Correct Factor 2.Over = Measurement -Limit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TRF No. FCC Part 15.247_R1

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Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : info@gdksign.cn Web: www.gdksign.com



4. EUT TEST PHOTOS

Radiated Emissions (30MHz~1000MHz)



Radiated Emissions (Above 1GHz)



TRF No. FCC Part 15.247_R1

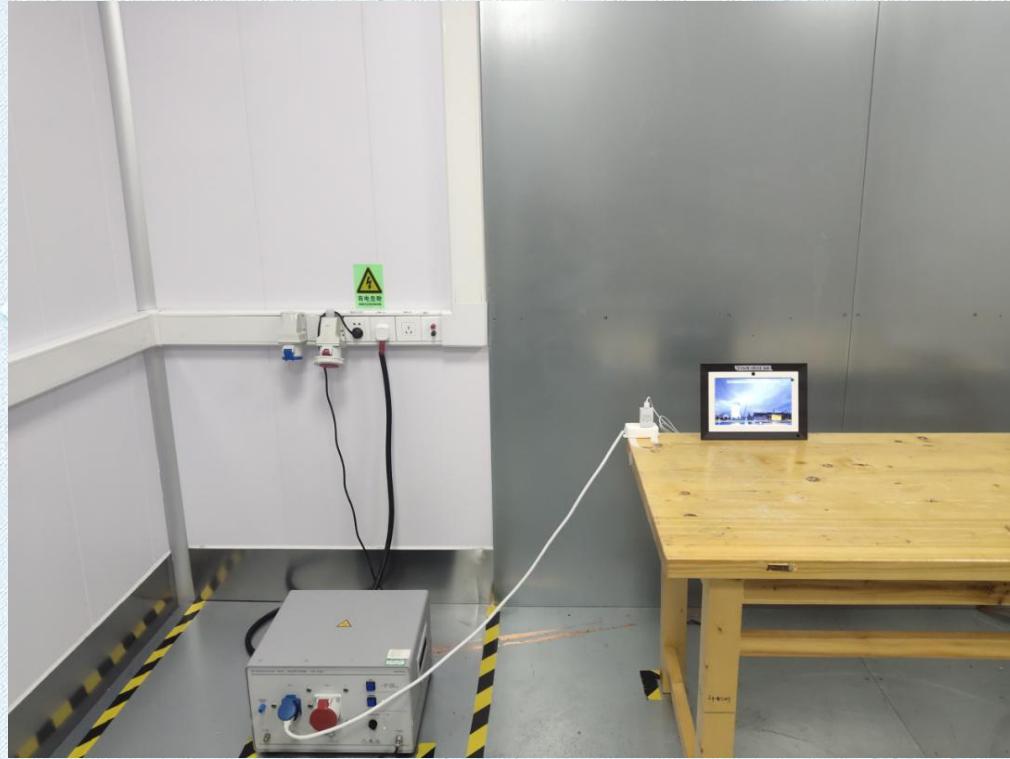
Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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RF Conducted



Conducted Emission



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5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

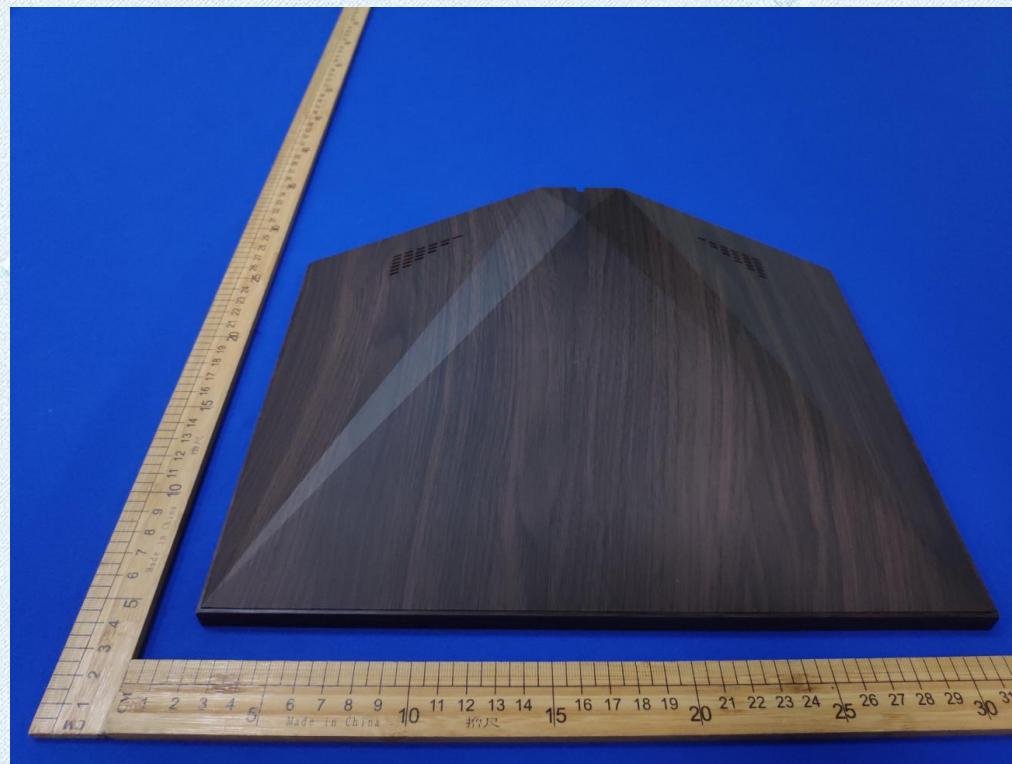
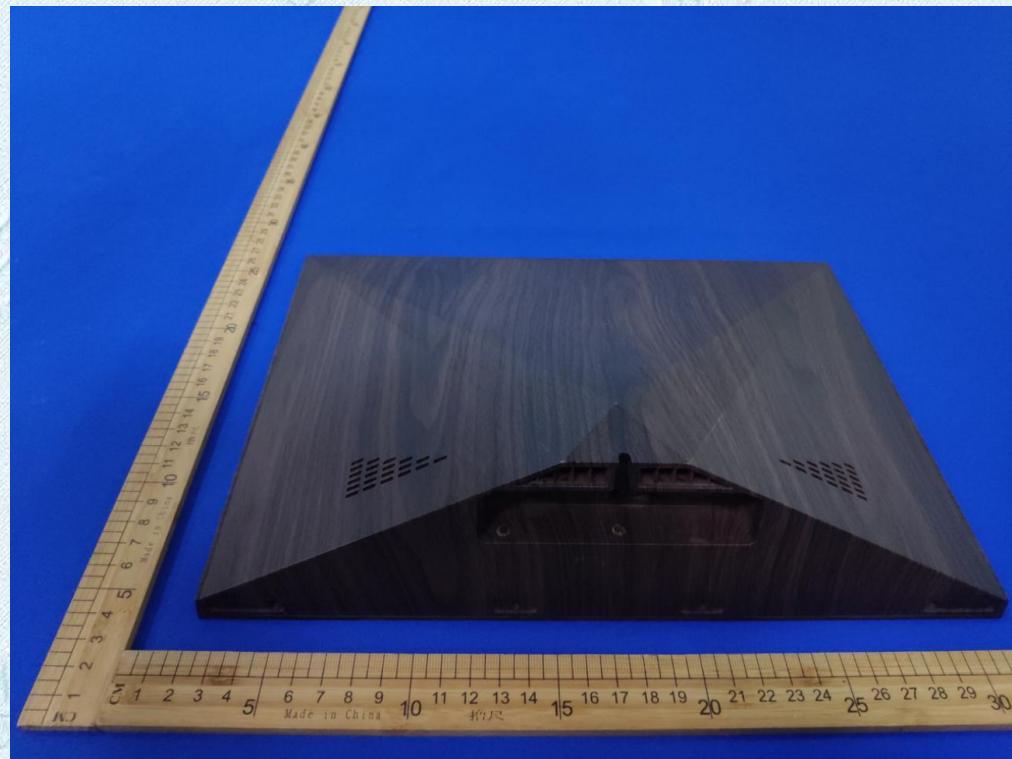
External Photographs



TRF No. FCC Part 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

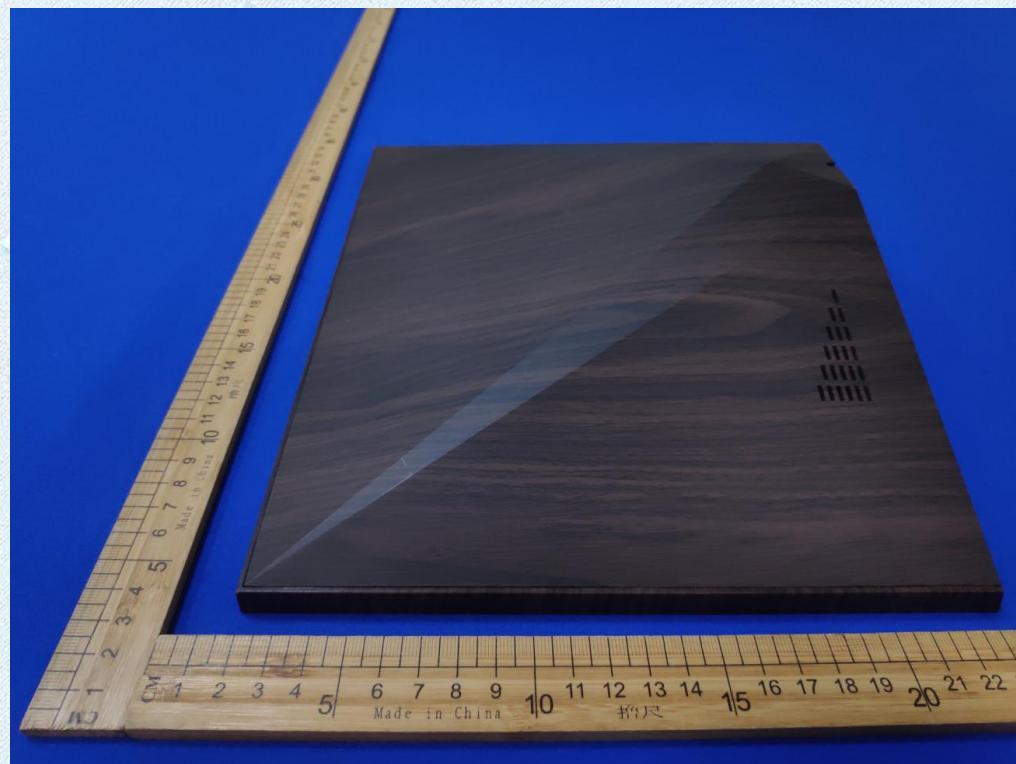
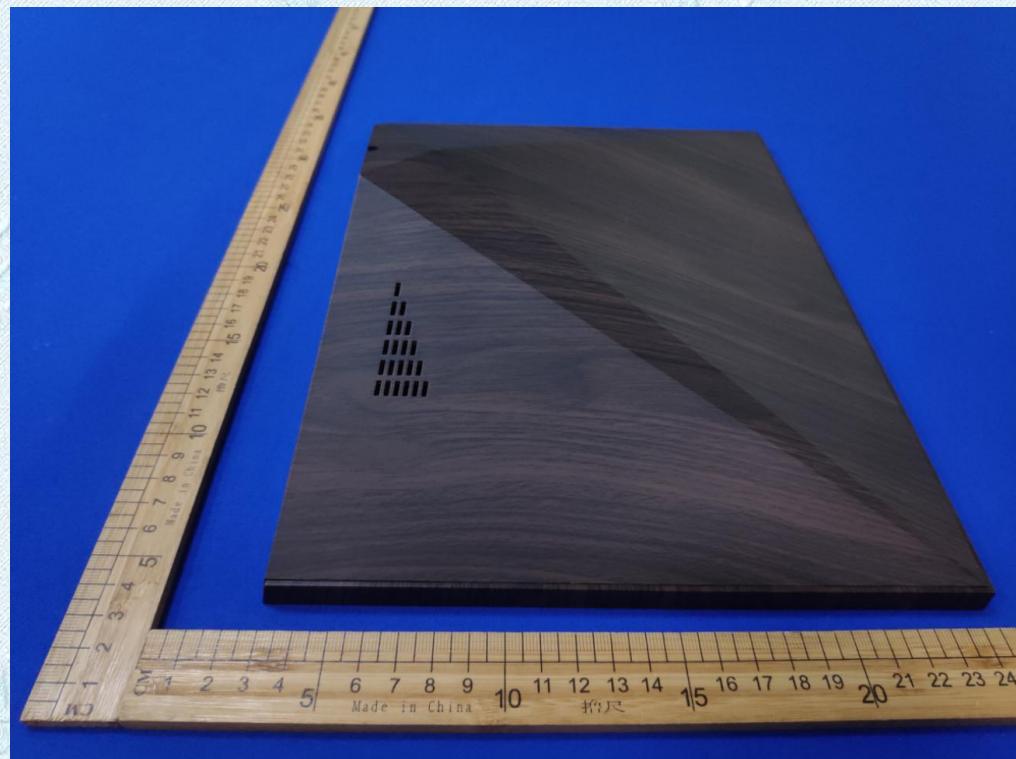
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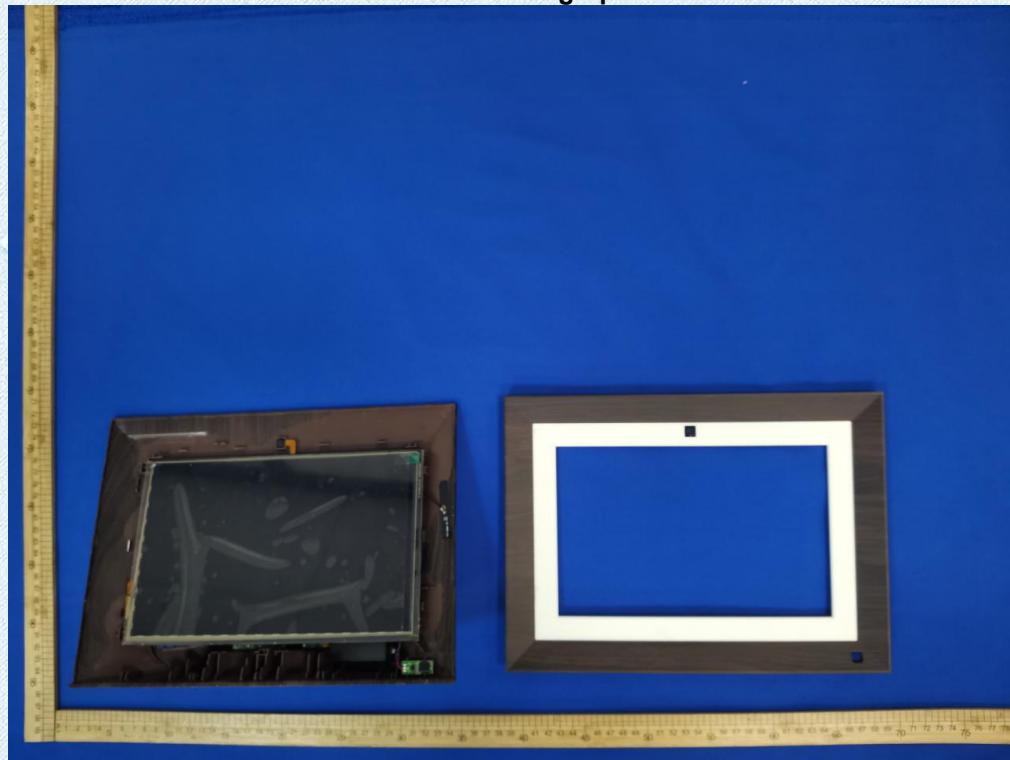
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Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

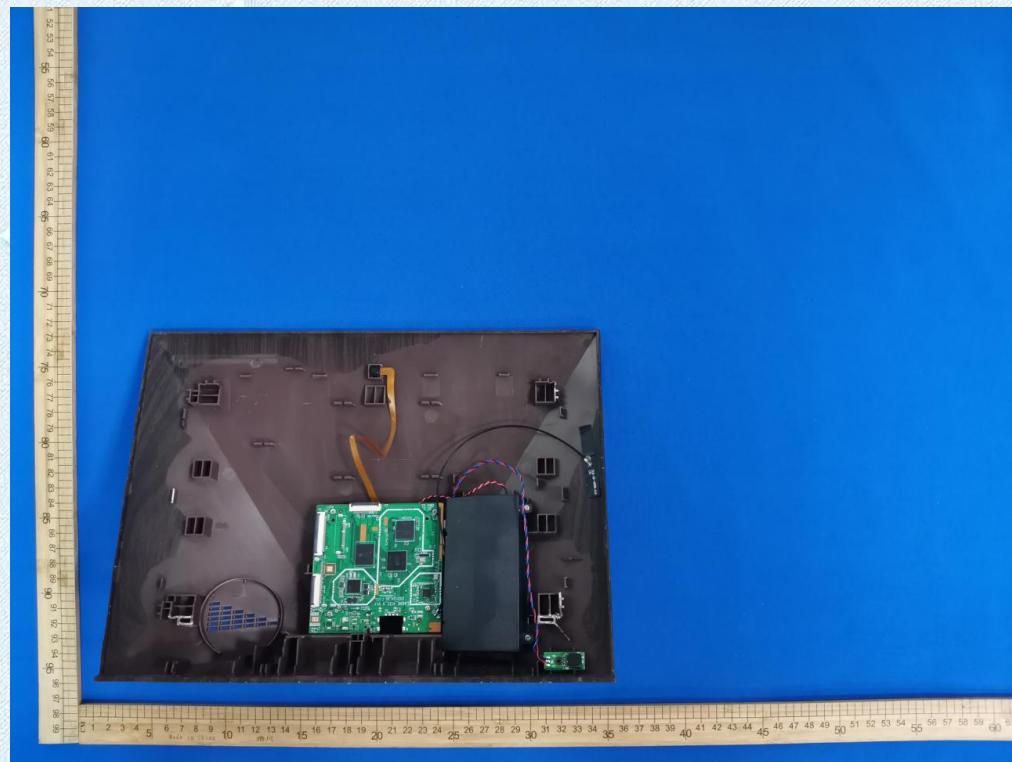
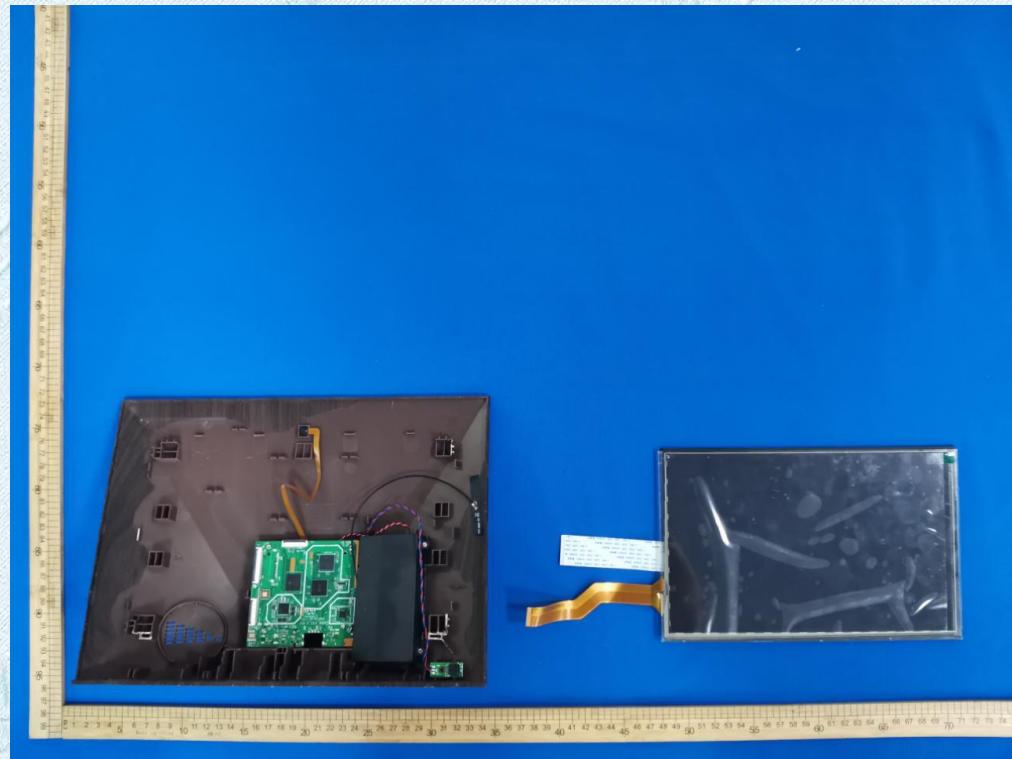
Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : info@gdksign.cn Web: www.gdksign.com

**Internal Photographs**

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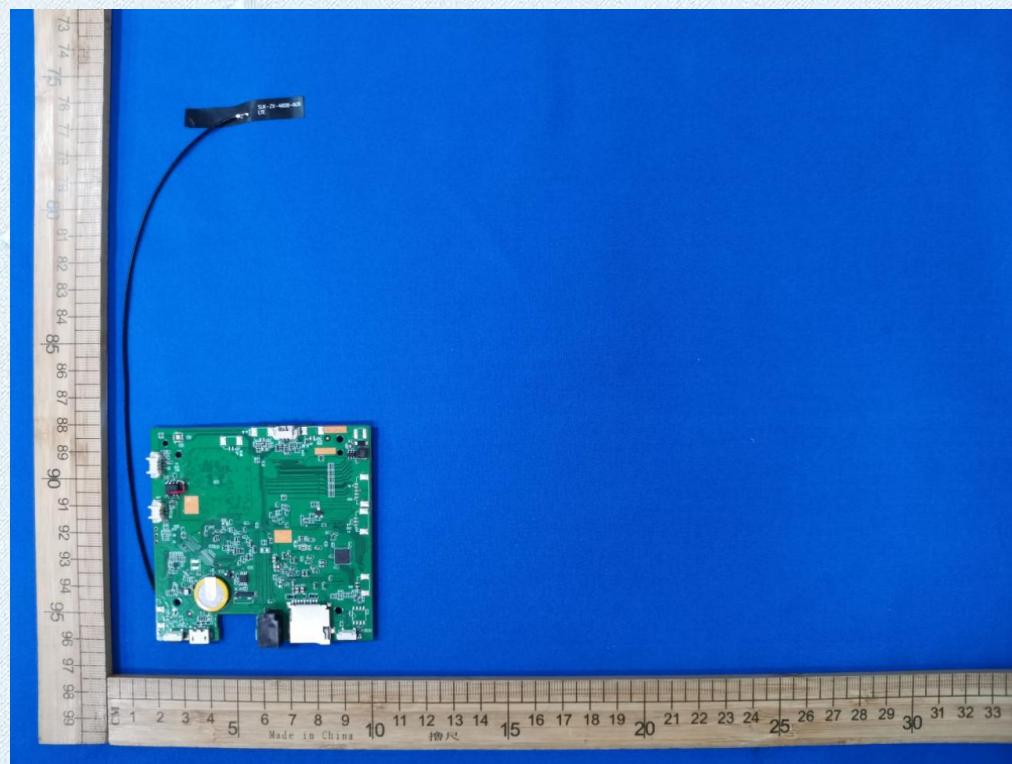
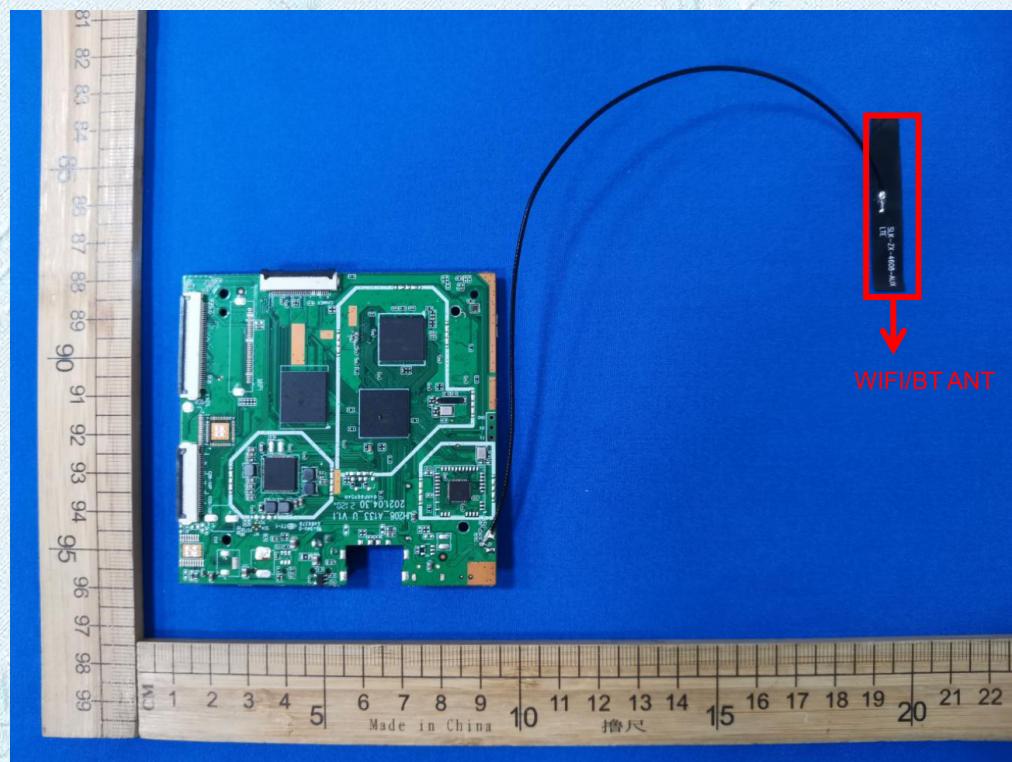
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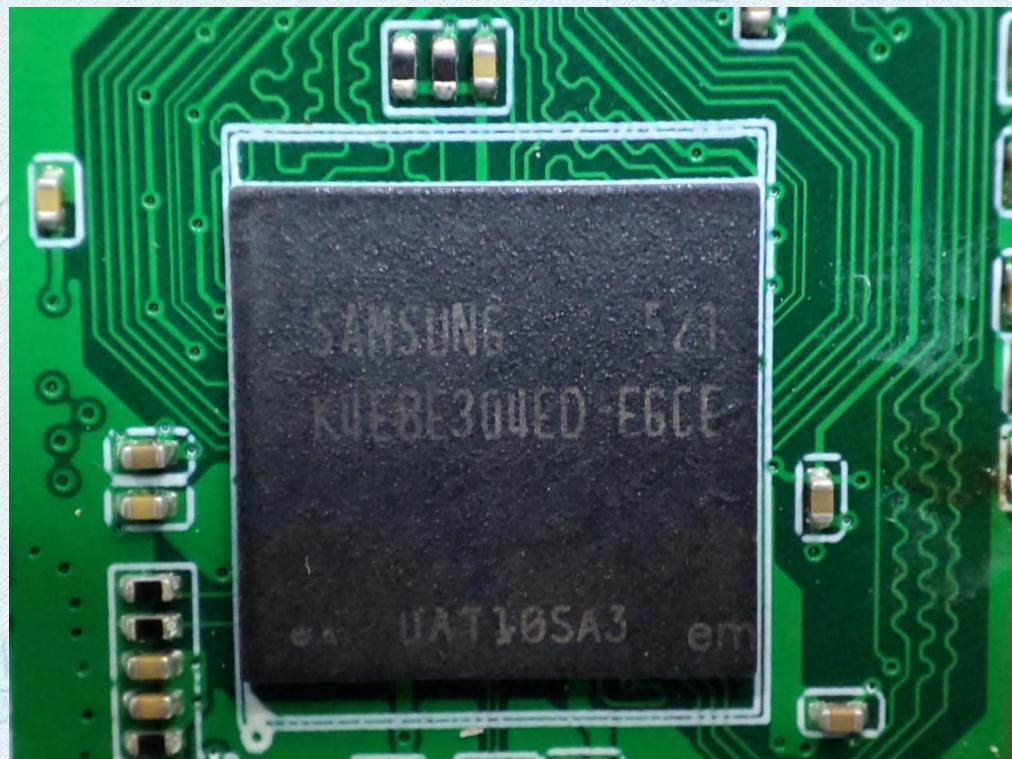
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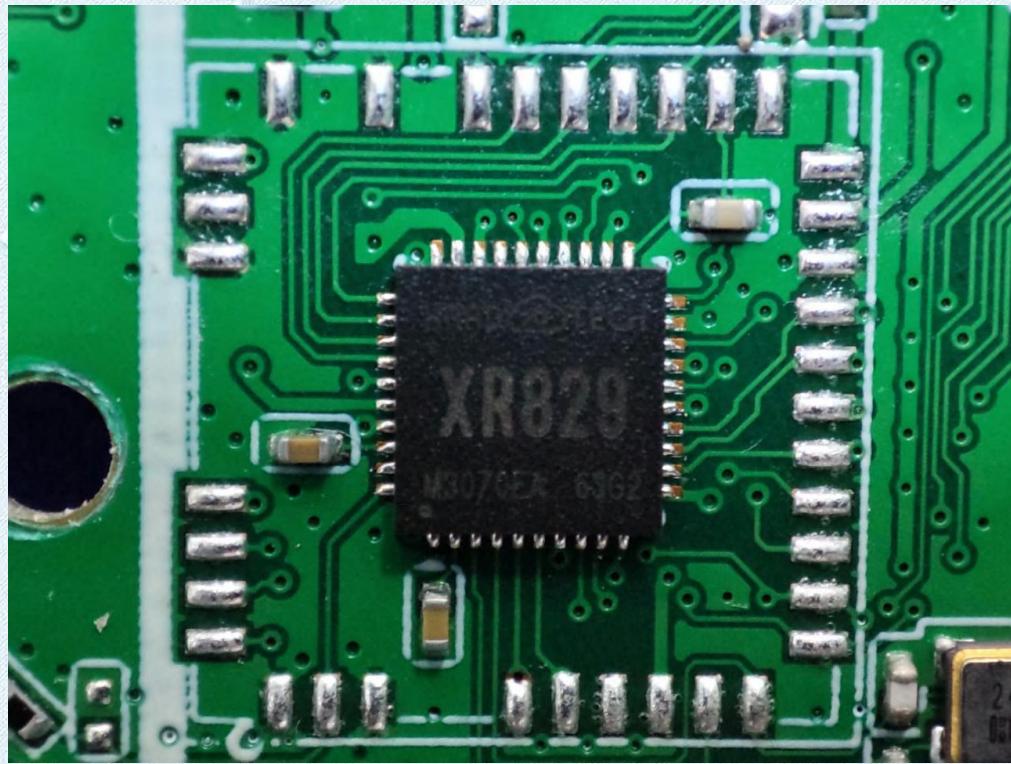
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