

FCC REPORT

(WIFI)

Applicant: HUNG WAI HOLDINGS LIMITED

Address of Applicant: Unit 11, 12/F., New Commerce Centre, 19 On Sum Street,
Shatin, Hong Kong

Equipment Under Test (EUT)

Product Name: 27" LCD non-touch screen android quad core player

Model No.: DT270-AS4G1-1080-SL

FCC ID: 2AB6Z-DT270-AS4G1

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 27 Apr., 2018

Date of Test: 28 Apr., to 22 May, 2018

Date of report issued: 23 May, 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

| Version No. | Date | Description |
|-------------|--------------|--|
| 00 | 23 May, 2018 | Android player Main board with wireless module (FCC ID: 2AB6Z-A18RK31) and same antenna were used by the device, only AC Power Line Conducted Emission and Radiated emission were re-tested. |
| | | |
| | | |
| | | |
| | | |

Tested by:

Carey Chen
Test Engineer

Date:

23 May, 2018

Reviewed by:

Wimer Zhang
Project Engineer

Date:

23 May, 2018

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4 Test Summary

| Test Items | Section in CFR 47 | Result |
|---|---------------------|--------|
| Antenna requirement | 15.203 & 15.247 (c) | Pass* |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass* |
| 6dB Emission Bandwidth 99% Occupied Bandwidth | 15.247 (a)(2) | Pass* |
| Power Spectral Density | 15.247 (e) | Pass* |
| Band Edge | 15.247 (d) | Pass |
| Spurious Emission | 15.205 & 15.209 | Pass |
| <i>Pass: The EUT complies with the essential requirements in the standard.</i> <i>N/A: N/A: Not Applicable.</i> <i>Pass*: The test data refer to FCC ID: 2AB6Z-A18RK31.</i> | | |

5 General Information

5.1 Client Information

| | |
|------------------------|---|
| Applicant: | HUNG WAI HOLDINGS LIMITED |
| Address: | Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong |
| Manufacturer/ Factory: | HUNG WAI ELECTRONICS (HUIZHOU) LTD |
| Address: | 3rd floor, NO. 1, Minfeng Road, Huinan High and New Technology Industry Park, Huiao Avenue, Huizhou City, Guangdong |

5.2 General Description of E.U.T.

| | |
|--|---|
| Product Name: | 27" LCD non-touch screen android quad core player |
| Model No.: | DT270-AS4G1-1080-SL |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) |
| Channel numbers: | 11 for 802.11b/802.11g/802.11(H20) |
| Channel separation: | 5MHz |
| Modulation technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Modulation technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) |
| Data speed (IEEE 802.11b): | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data speed (IEEE 802.11g): | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps |
| Data speed (IEEE 802.11n): | Up to 72.2Mbps |
| Antenna Type: | External Antenna |
| Antenna gain: | 2dBi |
| Power supply: | DC 12V |
| AC adapter: | Model No.:PS65B120Y5000S Input: AC100-240V, 50/60Hz, 1.5A Output: DC 12V,5000mA |

| Operation Frequency each of channel for 802.11b/g/n(H20) | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |
| Note: | | | | | | | |
| 1. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Middle and Highest channel, Channel. | | | | | | | |

5.3 Test environment and test mode

| Operating Environment: | |
|---|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test mode: | |
| Transmitting mode | Keep the EUT in continuous transmitting with modulation |
| <p>The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> <p>We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:</p> | |
| Per-scan all kind of data rate, the follow list were the worst case. | |
| Mode | Data rate |
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(H20) | 6.5Mbps |

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

| Parameters | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz) | ±2.22 dB (k=2) |
| Radiated Emission (9kHz ~ 30MHz) | ±2.76 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.28 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | ±5.72 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±2.88 dB (k=2) |

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: http://www.ccis-cb.com


5.8 Test Instruments list

| Radiated Emission: | | | | | |
|--------------------|-----------------|---------------|------------|----------------------|--------------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m SAC | SAEMC | 9m*6m*6m | 966 | 07-22-2017 | 07-21-2020 |
| Loop Antenna | SCHWARZBECK | FMZB1519B | 00044 | 03-16-2018 | 03-15-2019 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-16-2018 | 03-15-2019 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-16-2018 | 03-15-2019 |
| EMI Test Software | AUDIX | E3 | 6.110919b | N/A | N/A |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-07-2018 | 03-06-2019 |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-07-2018 | 03-06-2019 |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-07-2018 | 03-06-2019 |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-07-2018 | 03-06-2019 |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-07-2018 | 03-06-2019 |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-07-2018 | 03-06-2019 |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-07-2018 | 03-06-2019 |

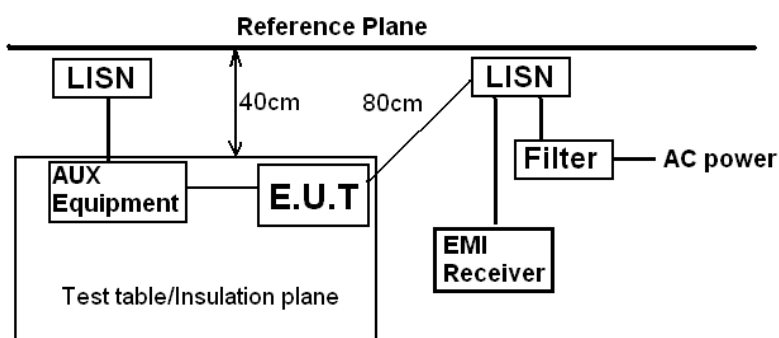
| Conducted Emission: | | | | | |
|---------------------|-----------------|------------|-------------|----------------------|--------------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101189 | 03-07-2018 | 03-06-2019 |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-07-2018 | 03-06-2019 |
| LISN | CHASE | MN2050D | 1447 | 03-19-2018 | 03-18-2019 |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 07-21-2017 | 07-20-2018 |
| Cable | HP | 10503A | N/A | 03-07-2018 | 03-06-2019 |
| EMI Test Software | AUDIX | E3 | 6.110919b | N/A | N/A |

6 Test results and Measurement Data

6.1 Antenna requirement

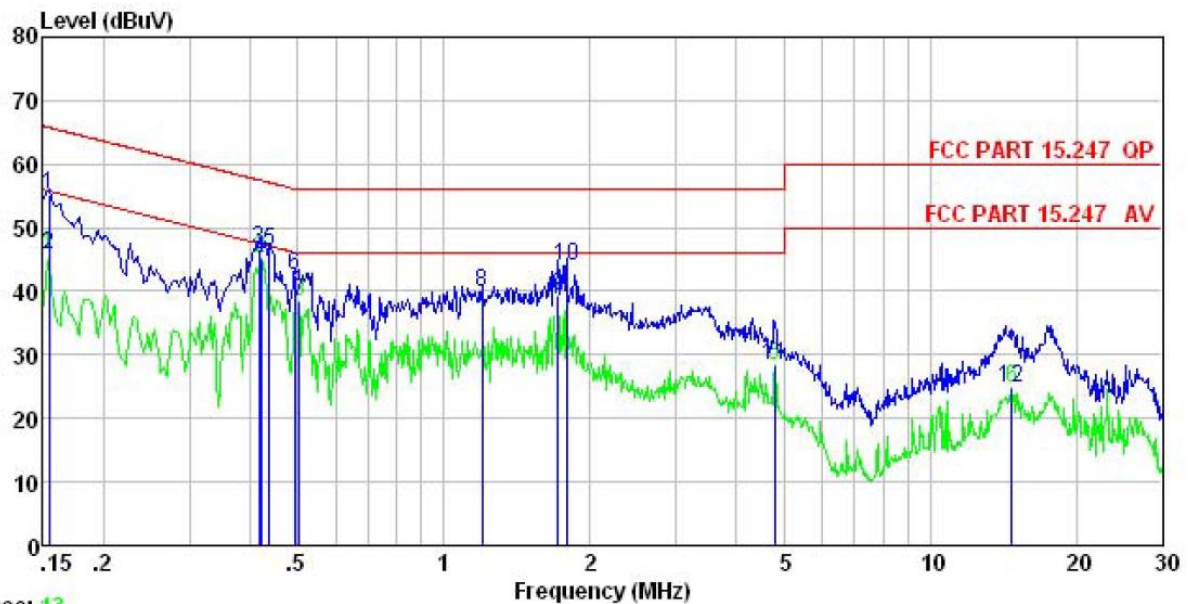
| | |
|--|--------------------------------------|
| Standard requirement: | FCC Part 15 C Section 15.203 /247(c) |
| <p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p> | |
| E.U.T Antenna: | |
| The WiFi antenna is an External antenna which cannot replace by end-user, the best case gain of the antenna is 2 dBi. | |
|  | |

6.2 Conducted Emission

| | | | |
|--|--|--------------|-----------|
| Test Requirement: | FCC Part 15 C Section 15.207 | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150 kHz to 30 MHz | | |
| Class / Severity: | Class B | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | | |
| Test procedure | <ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. | | |
| Test setup: |  <p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | |
| Test Instruments: | Refer to section 5.8 for details | | |
| Test mode: | Refer to section 5.3 for details | | |
| Test results: | Passed | | |

Measurement Data:

Test Phase: Neutral



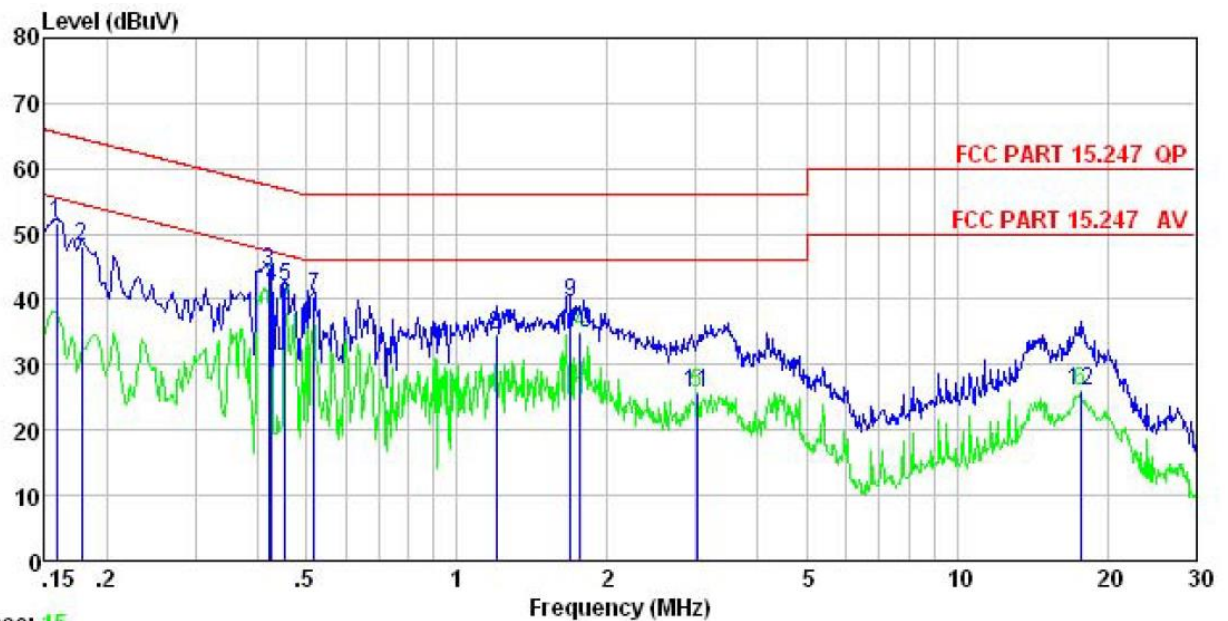
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : 27" LCD non-touch screen android quad
 : core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Carey
 Remark :

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dBUV | dB | dB | dBUV | dBUV | dB | |
| 1 | 0.154 | 43.36 | 0.98 | 10.78 | 55.12 | 65.78 | -10.66 | QP |
| 2 | 0.154 | 33.87 | 0.98 | 10.78 | 45.63 | 55.78 | -10.15 | Average |
| 3 | 0.417 | 35.06 | 0.97 | 10.73 | 46.76 | 57.51 | -10.75 | QP |
| 4 | 0.421 | 33.60 | 0.97 | 10.73 | 45.30 | 47.42 | -2.12 | Average |
| 5 | 0.437 | 34.65 | 0.97 | 10.74 | 46.36 | 57.11 | -10.75 | QP |
| 6 | 0.494 | 30.85 | 0.97 | 10.76 | 42.58 | 56.10 | -13.52 | QP |
| 7 | 0.505 | 26.59 | 0.97 | 10.76 | 38.32 | 46.00 | -7.68 | Average |
| 8 | 1.197 | 28.03 | 0.97 | 10.89 | 39.89 | 56.00 | -16.11 | QP |
| 9 | 1.716 | 27.32 | 0.98 | 10.94 | 39.24 | 46.00 | -6.76 | Average |
| 10 | 1.790 | 32.13 | 0.98 | 10.95 | 44.06 | 56.00 | -11.94 | QP |
| 11 | 4.797 | 16.45 | 1.01 | 10.86 | 28.32 | 46.00 | -17.68 | Average |
| 12 | 14.750 | 12.99 | 0.91 | 10.90 | 24.80 | 50.00 | -25.20 | Average |

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level=Receiver Read level + LISN Factor + Cable Loss.

Test Phase: Line



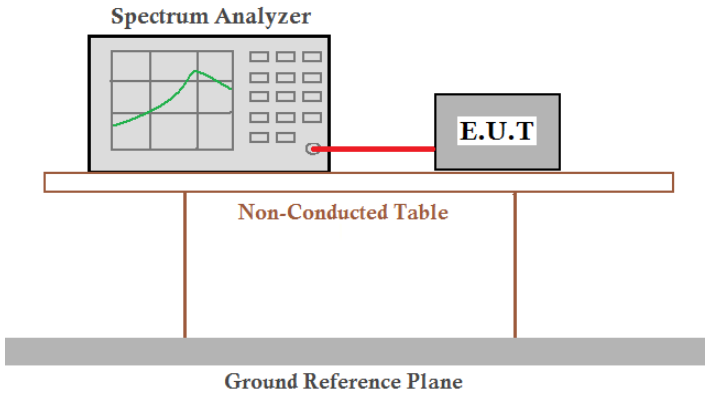
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : 27" LCD non-touch screen android quad
 : core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Carey
 Remark :

| | Read | LISN | Cable | Limit | Over | |
|------|--------|--------|-------|-------|-------|----------------------|
| Freq | Level | Factor | Loss | Line | Limit | Remark |
| MHz | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.158 | 40.59 | 0.17 | 10.77 | 51.53 | 65.56 -14.03 QP |
| 2 | 0.178 | 37.25 | 0.16 | 10.77 | 48.18 | 64.59 -16.41 QP |
| 3 | 0.421 | 33.52 | 0.12 | 10.73 | 44.37 | 57.42 -13.05 QP |
| 4 | 0.426 | 31.21 | 0.12 | 10.73 | 42.06 | 47.33 -5.27 Average |
| 5 | 0.454 | 31.06 | 0.12 | 10.74 | 41.92 | 56.80 -14.88 QP |
| 6 | 0.454 | 27.98 | 0.12 | 10.74 | 38.84 | 46.80 -7.96 Average |
| 7 | 0.518 | 29.69 | 0.12 | 10.76 | 40.57 | 56.00 -15.43 QP |
| 8 | 1.197 | 23.37 | 0.13 | 10.89 | 34.39 | 46.00 -11.61 Average |
| 9 | 1.689 | 28.40 | 0.14 | 10.94 | 39.48 | 56.00 -16.52 QP |
| 10 | 1.762 | 23.84 | 0.14 | 10.94 | 34.92 | 46.00 -11.08 Average |
| 11 | 3.025 | 14.63 | 0.16 | 10.92 | 25.71 | 46.00 -20.29 Average |
| 12 | 17.661 | 14.71 | 0.29 | 10.92 | 25.92 | 50.00 -24.08 Average |

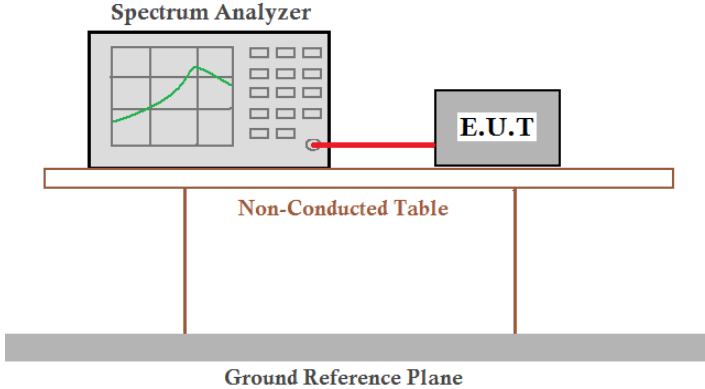
Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

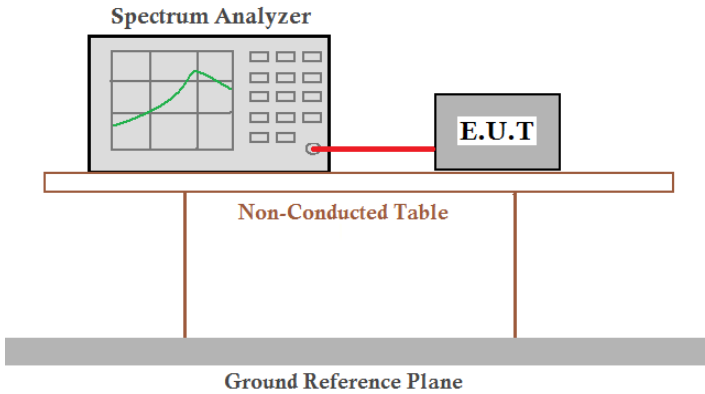
6.3 Conducted Output Power

| | |
|-------------------|--|
| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | 30dBm |
| Test setup: |  <p>The diagram illustrates the test setup for conducted output power measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Refer to FCC ID: 2AB6Z-A18RK31 |

6.4 Occupy Bandwidth

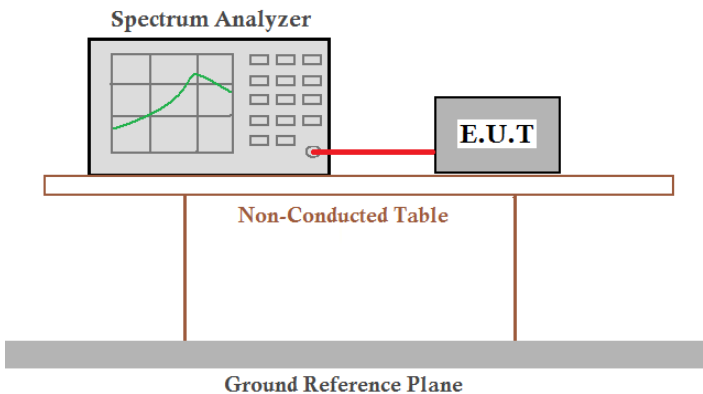
| | |
|-------------------|--|
| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | >500kHz |
| Test setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a table labeled 'Non-Conducted Table'. This table is supported by two vertical legs that rest on a thick grey bar at the bottom, labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Refer to FCC ID: 2AB6Z-A18RK31 |

6.5 Power Spectral Density

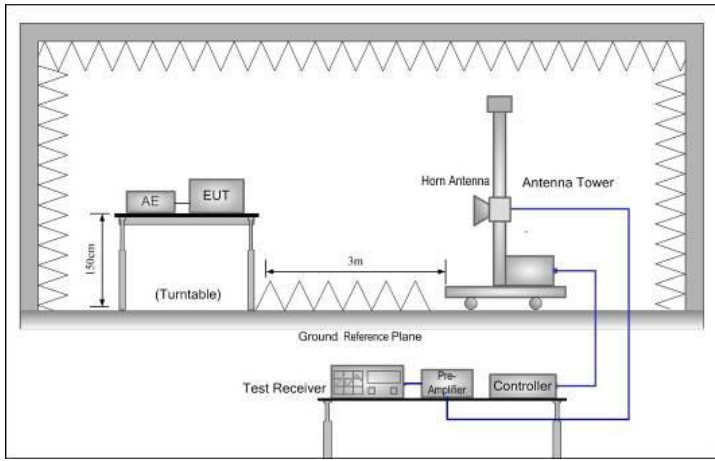
| | |
|-------------------|--|
| Test Requirement: | FCC Part 15 C Section 15.247 (e) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | 8dBm |
| Test setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green trace, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a table labeled 'Non-Conducted Table'. Below this table is a thick grey bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Refer to FCC ID: 2AB6Z-A18RK31 |

6.6 Band Edge

6.6.1 Conducted Emission Method

| | |
|-------------------|--|
| Test Requirement: | FCC Part 15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test setup: |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Refer to FCC ID: 2AB6Z-A18RK31 |

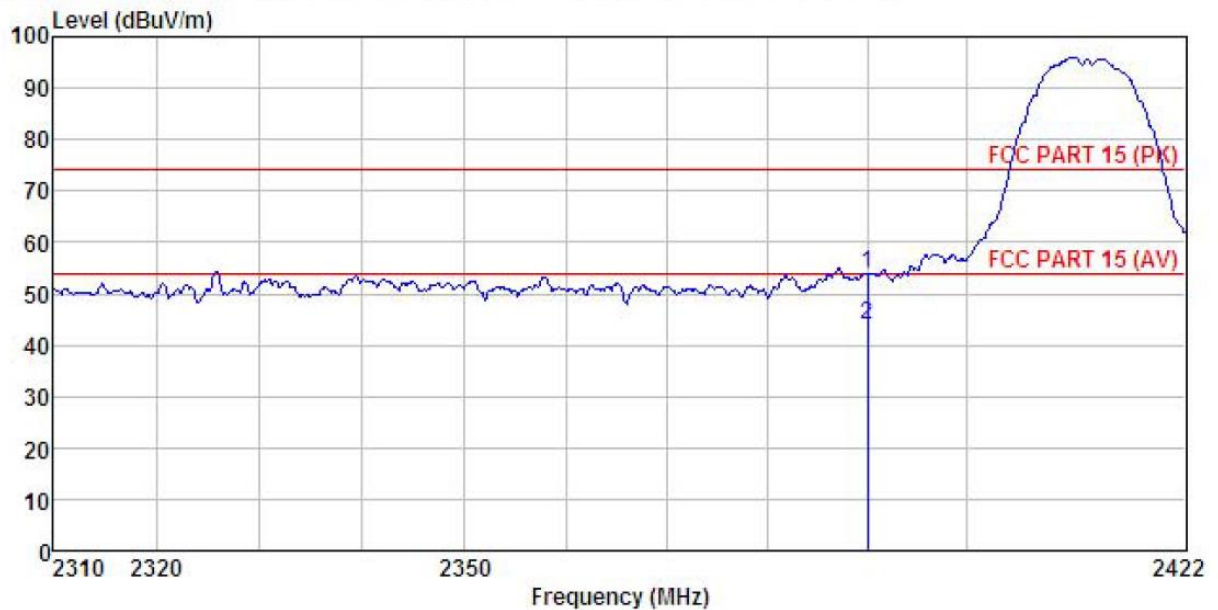
6.6.2 Radiated Emission Method

| | | | | | |
|-----------------------|--|--------------------|------|---------------|---------------|
| Test Requirement: | FCC Part 15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10: 2013 and KDB 558074 | | | | |
| Test Frequency Range: | 2.3GHz to 2.5GHz | | | | |
| Test Distance: | 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | RMS | 1MHz | 3MHz | Average Value |
| Limit: | Frequency | Limit (dBuV/m @3m) | | Remark | |
| | Above 1GHz | 54.00 | | Average Value | |
| | | 74.00 | | Peak Value | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> | | | | |
| Test setup: | <div></div> | | | | |
| Test Instruments: | Refer to section 5.8 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |

802.11b

Test channel: Lowest channel

Test Polarization: Horizontal



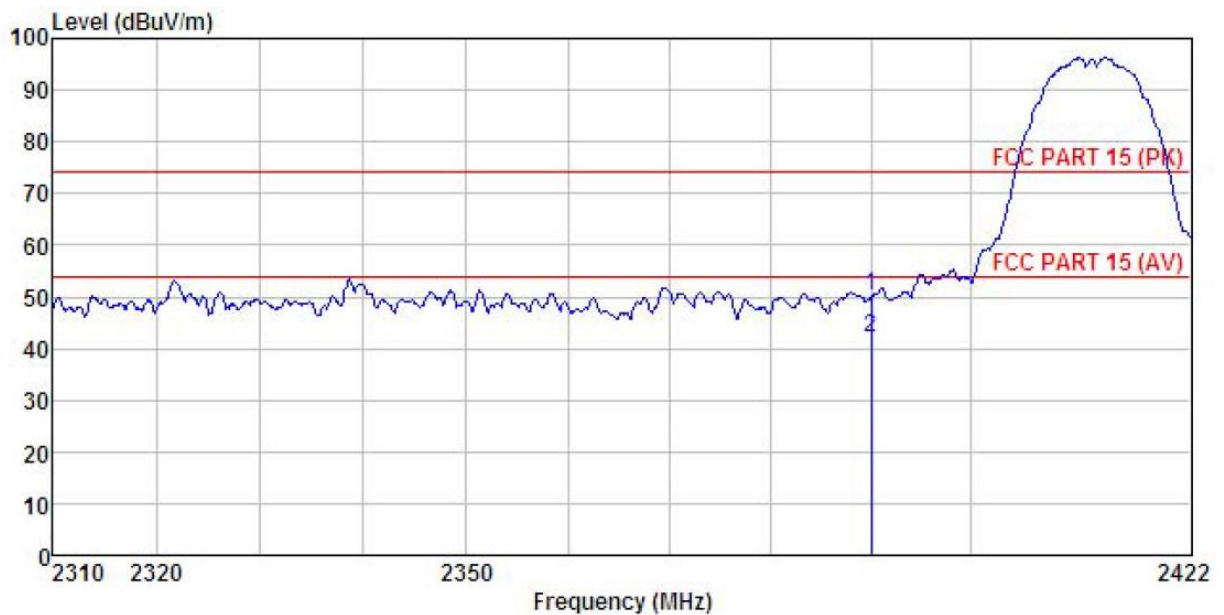
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 Model : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11B-L mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|---------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.95 | 27.37 | 4.69 | 0.00 | 54.01 | 74.00 | -19.99 | Peak |
| 2 | 2390.000 | 11.85 | 27.37 | 4.69 | 0.00 | 43.91 | 54.00 | -10.09 | Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11B-L mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

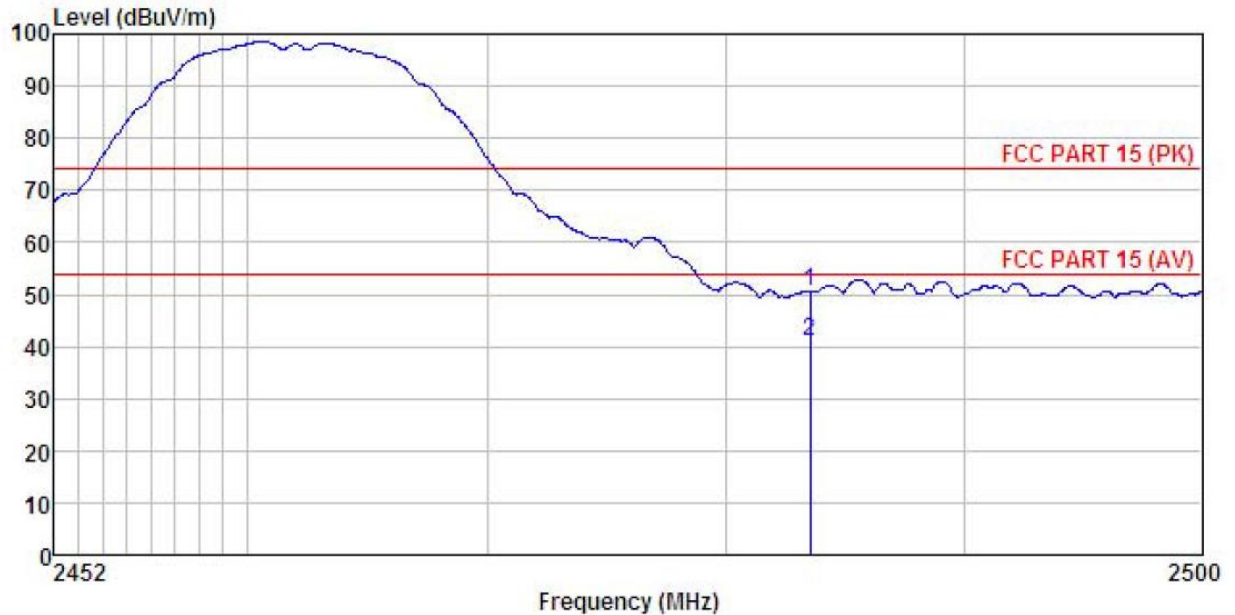
| | | ReadAntenna | Cable | Preamp | | Limit | Over | |
|---|----------|-------------|--------|--------|--------|--------|--------|----------------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 18.07 | 27.37 | 4.69 | 0.00 | 50.13 | 74.00 | -23.87 Peak |
| 2 | 2390.000 | 9.98 | 27.37 | 4.69 | 0.00 | 42.04 | 54.00 | -11.96 Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel: Highest channel

Test Polarization: Horizontal



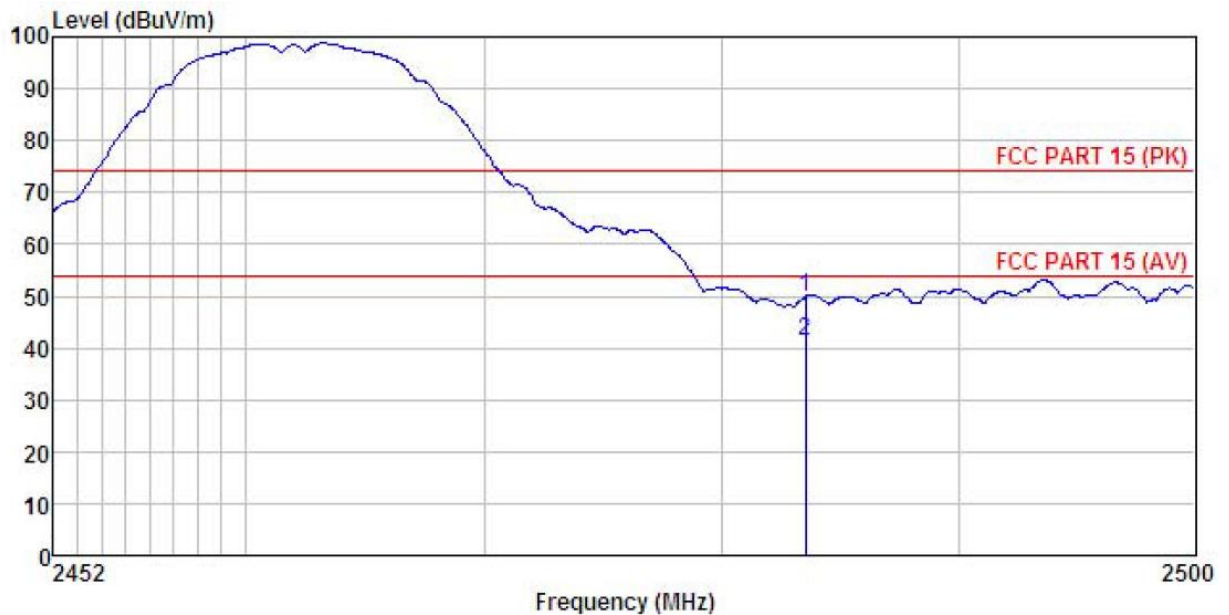
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11B-H mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|----------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 18.31 | 27.57 | 4.81 | 0.00 | 50.69 | 74.00 | -23.31 | Peak |
| 2 | 2483.500 | 8.60 | 27.57 | 4.81 | 0.00 | 40.98 | 54.00 | -13.02 | Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11B-H mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|---------|
| | MHz | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 17.47 | 27.57 | 4.81 | 0.00 | 49.85 | 74.00 | -24.15 | Peak |
| 2 | 2483.500 | 8.77 | 27.57 | 4.81 | 0.00 | 41.15 | 54.00 | -12.85 | Average |

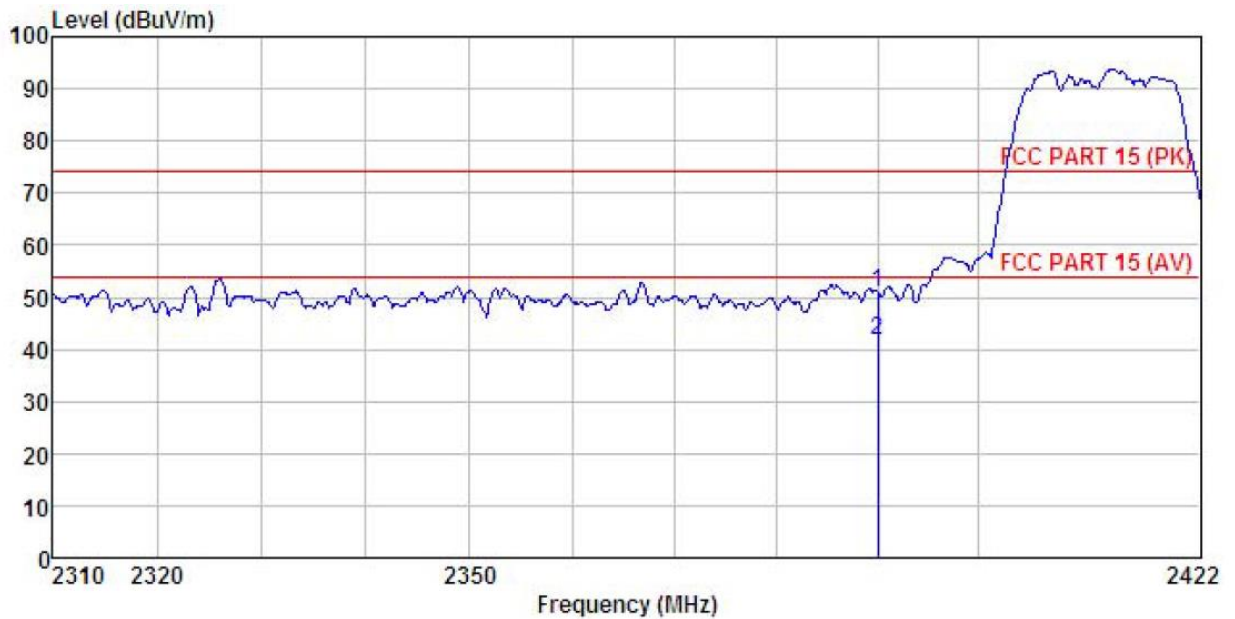
Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11g

Test channel: Lowest channel

Test Polarization: Horizontal



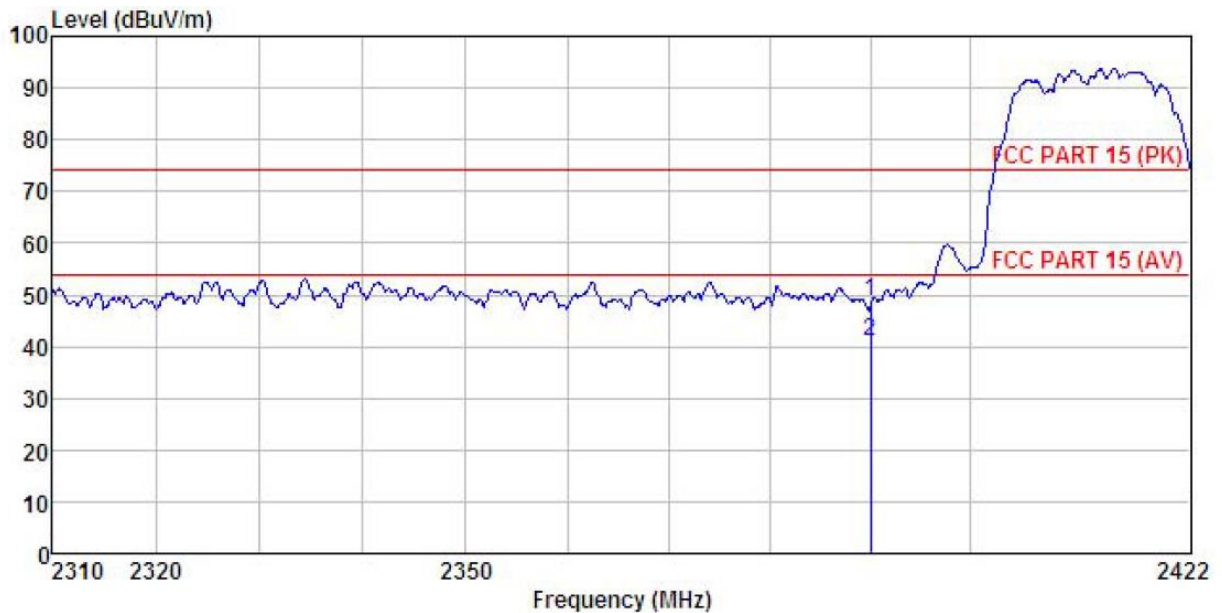
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11G-L mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Limit Level | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------|-------------|------------|----------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 18.80 | 27.37 | 4.69 | 0.00 | 50.86 | 74.00 | -23.14 Peak |
| 2 | 2390.000 | 9.72 | 27.37 | 4.69 | 0.00 | 41.78 | 54.00 | -12.22 Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11G-L mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

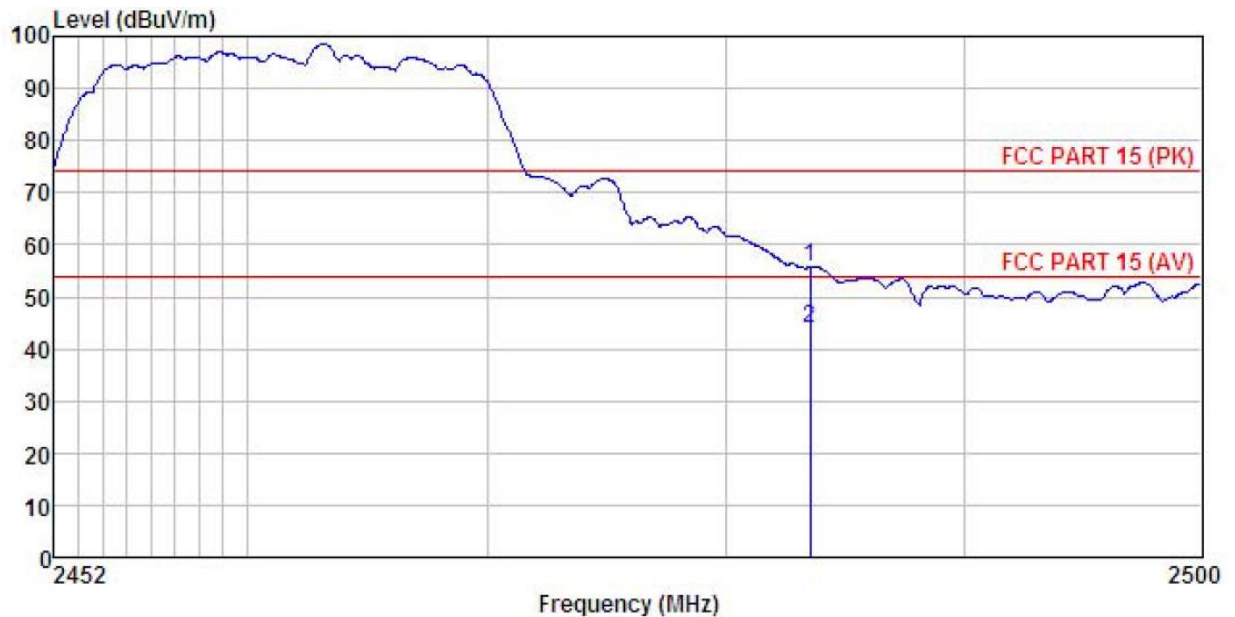
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|----------------|
| | | Level | Factor | Loss | Factor | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 16.58 | 27.37 | 4.69 | 0.00 | 48.64 | 74.00 | -25.36 Peak |
| 2 | 2390.000 | 8.76 | 27.37 | 4.69 | 0.00 | 40.82 | 54.00 | -13.18 Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel: Highest channel

Test Polarization: Horizontal



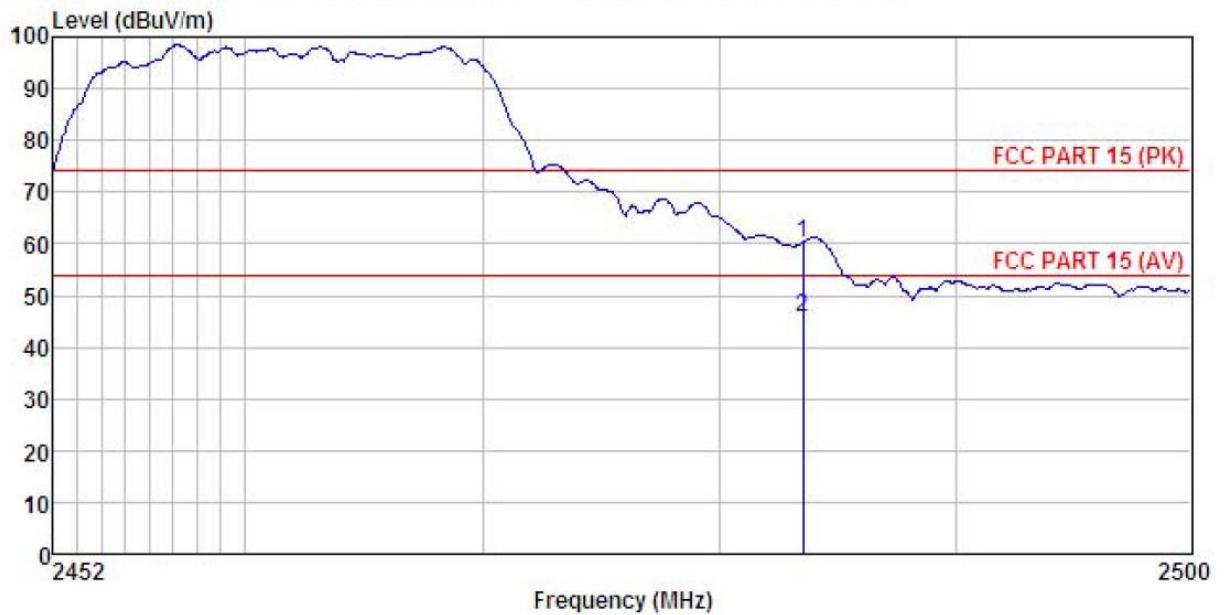
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11G-H mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|---------|
| | MHz | Level | Factor | Loss | Factor | dBuV/m | Line | Limit | Remark |
| | | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 23.43 | 27.57 | 4.81 | 0.00 | 55.81 | 74.00 | -18.19 | Peak |
| 2 | 2483.500 | 11.43 | 27.57 | 4.81 | 0.00 | 43.81 | 54.00 | -10.19 | Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11G-H mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Remark |
|---|----------|---------------|-------------------|---------------|------------------|--------|--------|---------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 27.89 | 27.57 | 4.81 | 0.00 | 60.27 | 74.00 | -13.73 | Peak |
| 2 | 2483.500 | 13.39 | 27.57 | 4.81 | 0.00 | 45.77 | 54.00 | -8.23 | Average |

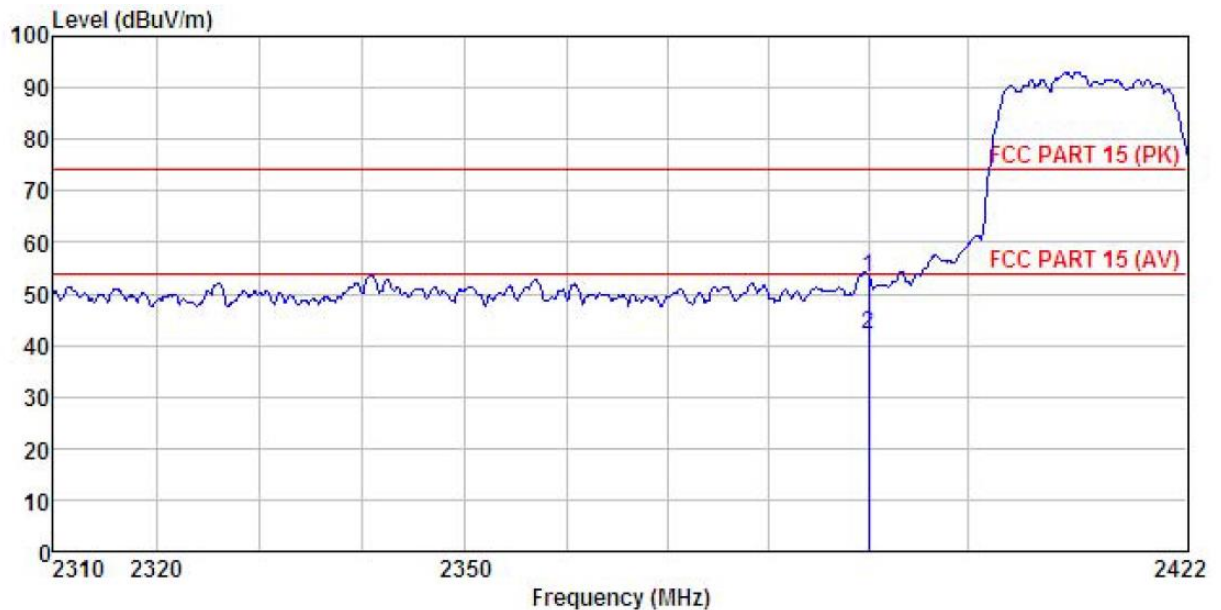
Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11n (H20)

Test channel: Lowest channel

Test Polarization: Horizontal



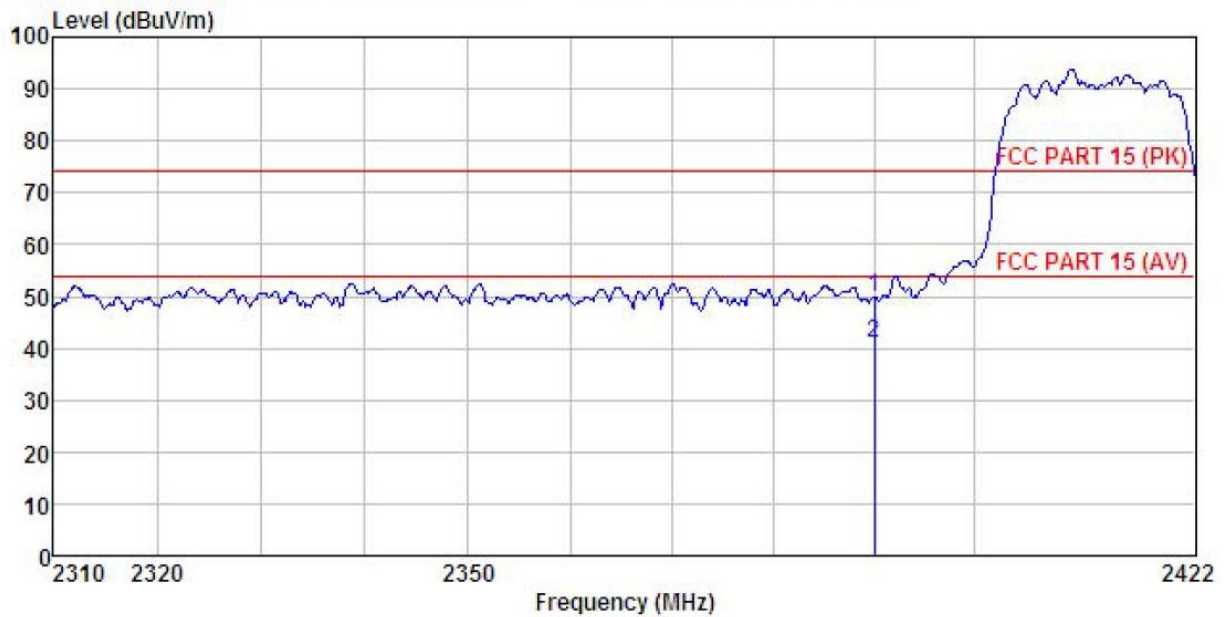
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11N20-L mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level | Limit | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.11 | 27.37 | 4.69 | 0.00 | 53.17 | 74.00 | -20.83 | Peak |
| 2 | 2390.000 | 10.05 | 27.37 | 4.69 | 0.00 | 42.11 | 54.00 | -11.89 | Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11N20-L mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

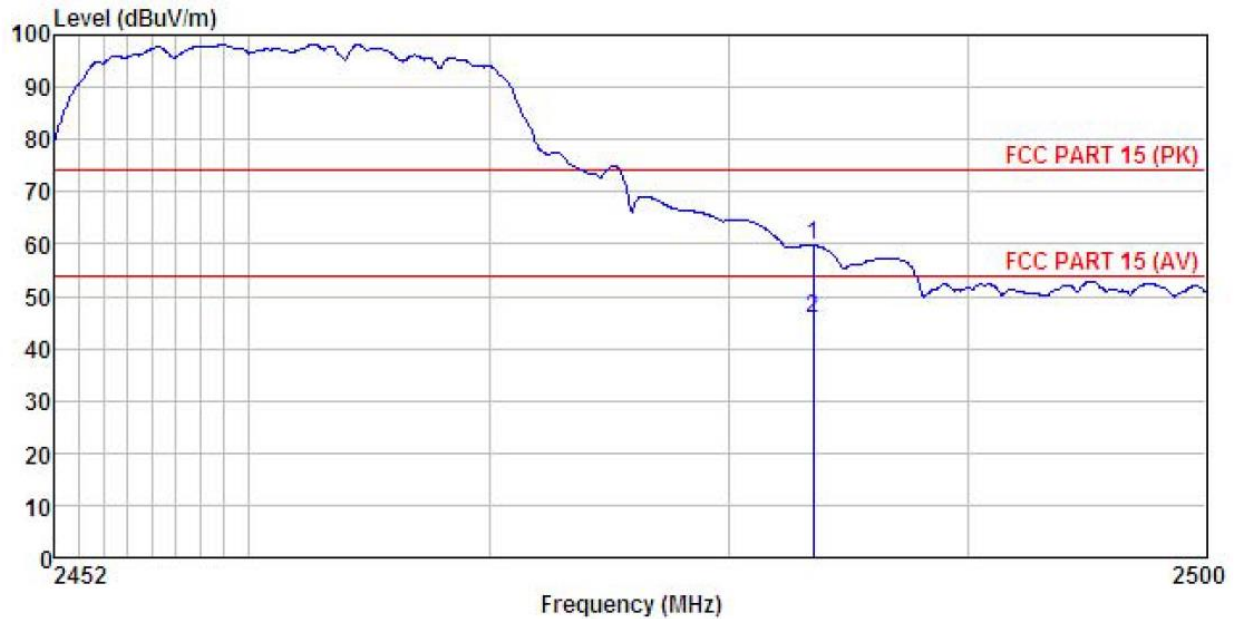
| | Freq | ReadAntenna | Cable Preamp | | Limit | Over | |
|---|----------|--------------|--------------|-------|--------|--------|----------------------|
| | | Level Factor | Loss Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 17.79 | 27.37 | 4.69 | 0.00 | 49.85 | 74.00 -24.15 Peak |
| 2 | 2390.000 | 8.96 | 27.37 | 4.69 | 0.00 | 41.02 | 54.00 -12.98 Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel: Highest channel

Test Polarization: Horizontal



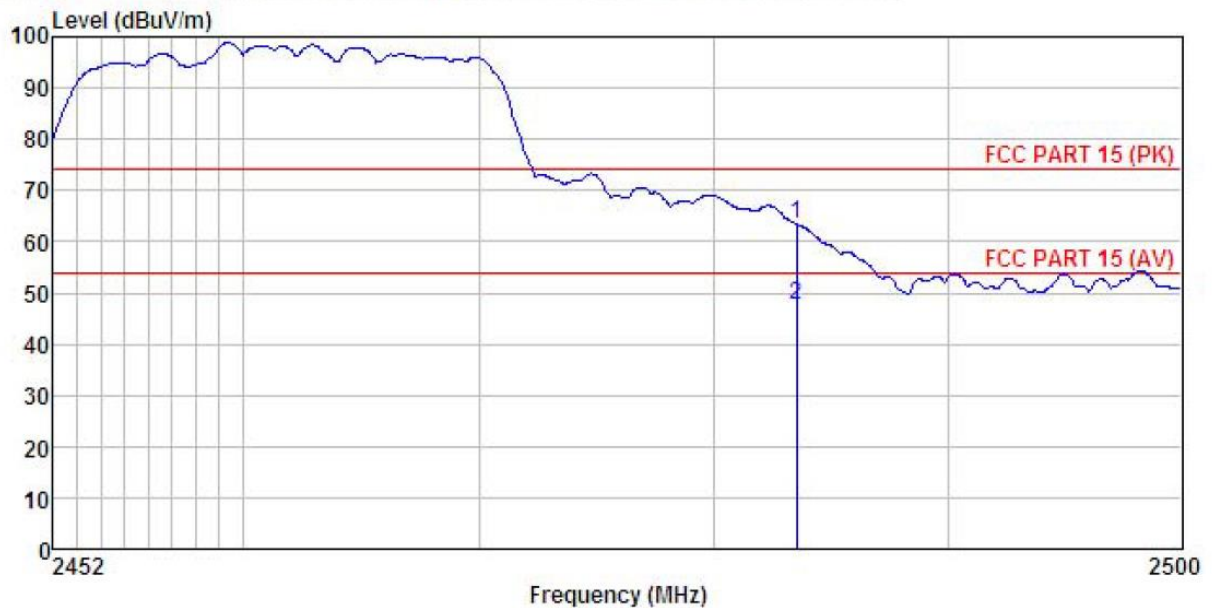
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11N20-H mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level | Limit Line | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------------|--------|------------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 27.37 | 27.57 | 4.81 | 0.00 | 59.75 | 74.00 | -14.25 | Peak |
| 2 | 2483.500 | 13.43 | 27.57 | 4.81 | 0.00 | 45.81 | 54.00 | -8.19 | Average |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 802.11N20-H mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

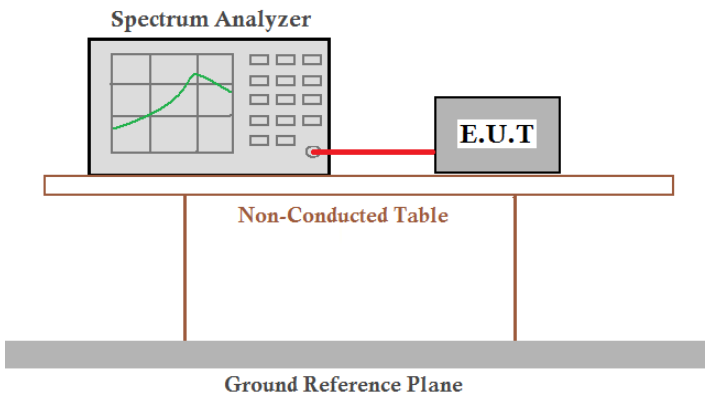
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Remark |
|---|----------|---------------|-------------------|---------------|------------------|--------|--------|---------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 31.07 | 27.57 | 4.81 | 0.00 | 63.45 | 74.00 | -10.55 | Peak |
| 2 | 2483.500 | 15.35 | 27.57 | 4.81 | 0.00 | 47.73 | 54.00 | -6.27 | Average |

Remark:

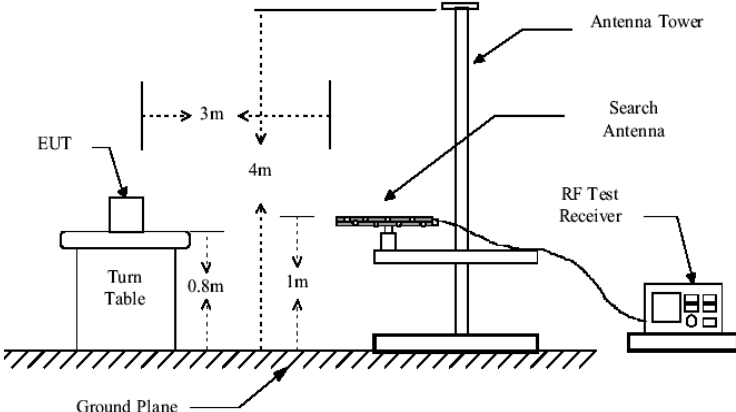
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

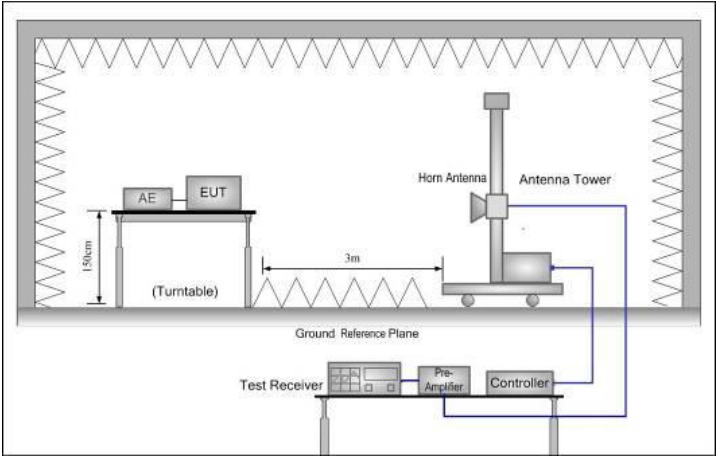
6.7 Spurious Emission

6.7.1 Conducted Emission Method

| | |
|-------------------|--|
| Test Requirement: | FCC Part 15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. |
| Test setup: |  <p>The diagram illustrates the test setup for conducted emissions. A Spectrum Analyzer is connected to an Equipment Under Test (E.U.T.) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Refer to FCC ID: 2AB6Z-A18RK31 |

6.7.2 Radiated Emission Method

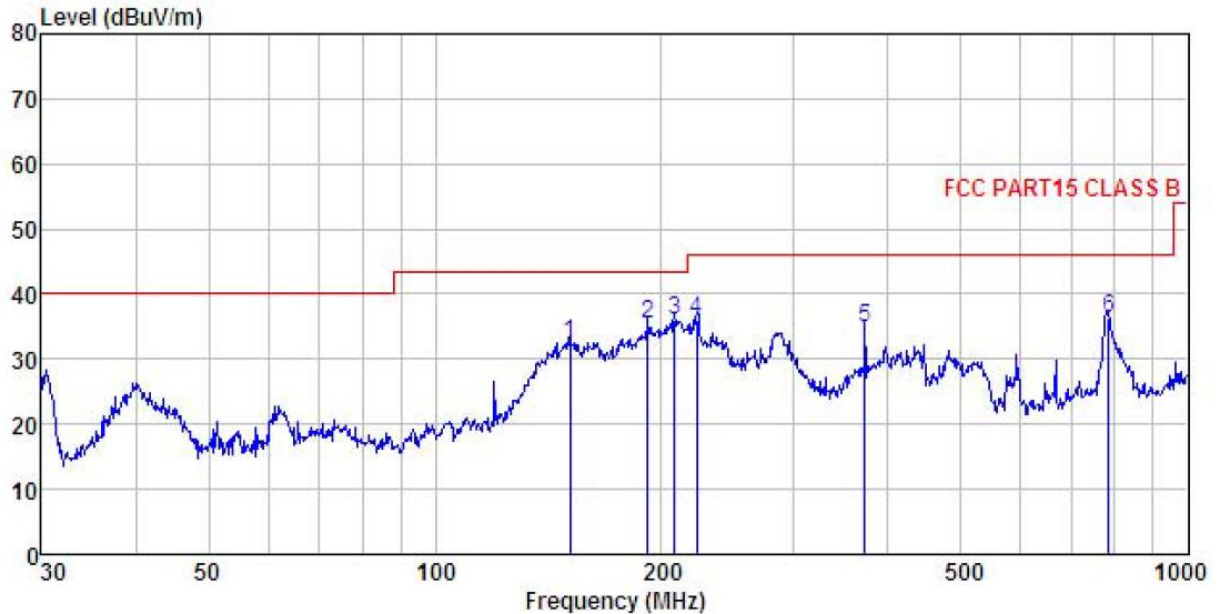
| | | | | | |
|-----------------------|--|--------------------|------------|---------------|------------------|
| Test Requirement: | FCC Part 15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | |
| Test Distance: | 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| RMS | | 1MHz | 3MHz | Average Value | |
| Limit: | Frequency | Limit (dBuV/m @3m) | | | Remark |
| | 30MHz-88MHz | 40.0 | | | Quasi-peak Value |
| | 88MHz-216MHz | 43.5 | | | Quasi-peak Value |
| | 216MHz-960MHz | 46.0 | | | Quasi-peak Value |
| | 960MHz-1GHz | 54.0 | | | Quasi-peak Value |
| | Above 1GHz | 54.0 | | | Average Value |
| 74.0 | | | Peak Value | | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> | | | | |
| Test setup: | <div>Below 1GHz</div> <div></div> | | | | |

| | |
|-------------------|---|
| | <p>Above 1GHz</p>  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | <ol style="list-style-type: none"> 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report. |

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



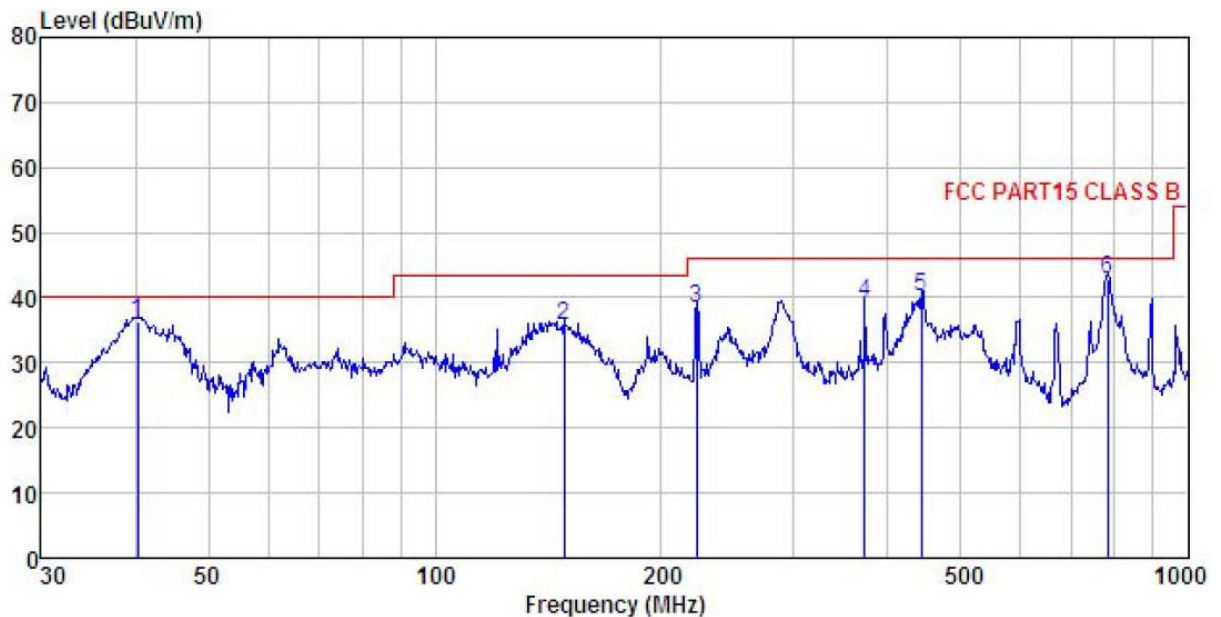
Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 2.4G WIFImode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | |
|---|---------|-------------|--------|--------|--------|--------|--------|-----------|
| | MHz | Level | Factor | Loss | Factor | Level | Line | Limit |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 151.067 | 50.57 | 8.65 | 2.53 | 29.21 | 32.54 | 43.50 | -10.96 QP |
| 2 | 191.745 | 50.28 | 11.25 | 2.81 | 28.89 | 35.45 | 43.50 | -8.05 QP |
| 3 | 207.850 | 50.21 | 11.81 | 2.86 | 28.78 | 36.10 | 43.50 | -7.40 QP |
| 4 | 222.950 | 49.61 | 12.38 | 2.84 | 28.69 | 36.14 | 46.00 | -9.86 QP |
| 5 | 372.005 | 45.41 | 15.01 | 3.09 | 28.66 | 34.85 | 46.00 | -11.15 QP |
| 6 | 785.093 | 39.33 | 21.00 | 4.35 | 28.28 | 36.40 | 46.00 | -9.60 QP |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL
 EUT : 27" LCD non-touch screen android
 : quad core player
 Model : DT270-AS4G1-1080-SL
 Test mode : 2.4G WIFI mode
 Power Rating : AC 120V60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

| | Freq | ReadAntenna | Cable | Preamp | Level | Limit | Over | |
|---|---------|-------------|--------|--------|--------|--------|--------|----------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 40.276 | 52.14 | 12.85 | 1.22 | 29.90 | 36.31 | 40.00 | -3.69 QP |
| 2 | 148.441 | 53.98 | 8.52 | 2.50 | 29.23 | 35.77 | 43.50 | -7.73 QP |
| 3 | 222.950 | 51.92 | 12.38 | 2.84 | 28.69 | 38.45 | 46.00 | -7.55 QP |
| 4 | 372.005 | 49.72 | 15.01 | 3.09 | 28.66 | 39.16 | 46.00 | -6.84 QP |
| 5 | 443.294 | 49.89 | 16.02 | 3.18 | 28.86 | 40.23 | 46.00 | -5.77 QP |
| 6 | 782.345 | 45.84 | 21.00 | 4.35 | 28.29 | 42.90 | 46.00 | -3.10 QP |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz

| 802.11b | | | | | | | | |
|--|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 47.69 | 30.94 | 6.81 | 41.82 | 43.62 | 74.00 | -30.38 | Vertical |
| 4824.00 | 46.37 | 30.94 | 6.81 | 41.82 | 42.30 | 74.00 | -31.70 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 37.24 | 30.94 | 6.81 | 41.82 | 33.17 | 54.00 | -20.83 | Vertical |
| 4824.00 | 46.85 | 30.94 | 6.81 | 41.82 | 42.78 | 54.00 | -11.22 | Horizontal |
| Test channel: Middle channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 46.78 | 31.20 | 6.85 | 41.84 | 42.99 | 74.00 | -31.01 | Vertical |
| 4874.00 | 45.23 | 31.20 | 6.85 | 41.84 | 41.44 | 74.00 | -32.56 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 36.36 | 31.20 | 6.85 | 41.84 | 32.57 | 54.00 | -21.43 | Vertical |
| 4874.00 | 35.37 | 31.20 | 6.85 | 41.84 | 31.58 | 54.00 | -22.42 | Horizontal |
| Test channel: Highest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 47.48 | 31.46 | 6.89 | 41.86 | 43.97 | 74.00 | -30.03 | Vertical |
| 4924.00 | 47.86 | 31.46 | 6.89 | 41.86 | 44.35 | 74.00 | -29.65 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 37.47 | 31.46 | 6.89 | 41.86 | 33.96 | 54.00 | -20.04 | Vertical |
| 4924.00 | 37.54 | 31.46 | 6.89 | 41.86 | 34.03 | 54.00 | -19.97 | Horizontal |
| Remark: | | | | | | | | |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. | | | | | | | | |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. | | | | | | | | |

| 802.11g | | | | | | | | |
|--|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 47.49 | 30.94 | 6.81 | 41.82 | 43.42 | 74.00 | -30.58 | Vertical |
| 4824.00 | 46.82 | 30.94 | 6.81 | 41.82 | 42.75 | 74.00 | -31.25 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 37.38 | 30.94 | 6.81 | 41.82 | 33.31 | 54.00 | -20.69 | Vertical |
| 4824.00 | 37.12 | 30.94 | 6.81 | 41.82 | 33.05 | 54.00 | -20.95 | Horizontal |
| Test channel: Middle channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 46.74 | 31.20 | 6.85 | 41.84 | 42.95 | 74.00 | -31.05 | Vertical |
| 4874.00 | 45.41 | 31.20 | 6.85 | 41.84 | 41.62 | 74.00 | -32.38 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 36.68 | 31.20 | 6.85 | 41.84 | 32.89 | 54.00 | -21.11 | Vertical |
| 4874.00 | 35.74 | 31.20 | 6.85 | 41.84 | 31.95 | 54.00 | -22.05 | Horizontal |
| Test channel: Highest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 47.78 | 31.46 | 6.89 | 41.86 | 44.27 | 74.00 | -29.73 | Vertical |
| 4924.00 | 47.82 | 31.46 | 6.89 | 41.86 | 44.31 | 74.00 | -29.69 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 37.62 | 31.46 | 6.89 | 41.86 | 34.11 | 54.00 | -19.89 | Vertical |
| 4924.00 | 37.54 | 31.46 | 6.89 | 41.86 | 34.03 | 54.00 | -19.97 | Horizontal |
| Remark: | | | | | | | | |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. | | | | | | | | |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. | | | | | | | | |

| 802.11n(HT20) | | | | | | | | |
|--|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 47.74 | 36.06 | 6.81 | 41.82 | 48.79 | 74.00 | -25.21 | Vertical |
| 4824.00 | 47.14 | 36.06 | 6.81 | 41.82 | 48.19 | 74.00 | -25.81 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 37.58 | 36.06 | 6.81 | 41.82 | 38.63 | 54.00 | -15.37 | Vertical |
| 4824.00 | 37.58 | 36.06 | 6.81 | 41.82 | 38.63 | 54.00 | -15.37 | Horizontal |
| Test channel: Middle channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 46.74 | 36.32 | 6.85 | 41.84 | 48.07 | 74.00 | -25.93 | Vertical |
| 4874.00 | 45.41 | 36.32 | 6.85 | 41.84 | 46.74 | 74.00 | -27.26 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 36.54 | 36.32 | 6.85 | 41.84 | 37.87 | 54.00 | -16.13 | 36.54 |
| 4874.00 | 35.84 | 36.32 | 6.85 | 41.84 | 37.17 | 54.00 | -16.83 | 35.84 |
| Test channel: Highest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 46.75 | 36.58 | 6.89 | 41.86 | 48.36 | 74.00 | -25.64 | Vertical |
| 4924.00 | 46.85 | 36.58 | 6.89 | 41.86 | 48.46 | 74.00 | -25.54 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 36.63 | 36.58 | 6.89 | 41.86 | 38.24 | 54.00 | -15.76 | Vertical |
| 4924.00 | 36.48 | 36.58 | 6.89 | 41.86 | 38.09 | 54.00 | -15.91 | Horizontal |
| Remark: | | | | | | | | |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. | | | | | | | | |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. | | | | | | | | |