

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS15070058002

FCC REPORT (BLE)

Applicant: HUNG WAI PRODUCTS LIMITED

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

Shatin, Hong Kong

Equipment Under Test (EUT)

Product Name: 15.6" Android touch LCD Media Player

Model No.: DT156-AC4-720, 502-1569ATATM

FCC ID: 2AB6Z-DT156-AC4

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

Date of sample receipt: 22 Jul., 2015

Date of Test: 23 Jul., to 26 Aug., 2015

Date of report issued: 26 Aug., 2015

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 | 26 Aug., 2015 | Android player Main board with wireless module (FCC ID: 2AB6Z-1859ATMB) and same antenna were used by the device, only conducted emission and Radiated emission were re-tested. |
| | | |
| | | |

Prepared by: Sora Yim Date: 26 Aug., 2015

Report Clerk

Reviewed by: Date: 26 Aug., 2015

Project Engineer



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4 Test Summary

| Test Item | 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 | 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 |

Pass: The EUT complies with the essential requirements in the standard.

Pass*: The test data refer to FCC ID: 2AB6Z-1859ATMB.





5 General Information

5.1 Client Information

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

5.2 General Description of E.U.T.

| Product Name: | 15.6" Android touch LCD Media Player |
|------------------------|---|
| Model No.: | DT156-AC4-720, 502-1569ATATM |
| Operation Frequency: | 2402-2480 MHz |
| Channel numbers: | 40 |
| Channel separation: | 2 MHz |
| Modulation technology: | GFSK |
| Data speed : | 1Mbps |
| Antenna Type: | Omni-directional |
| Antenna gain: | 2.5 dBi |
| AC Adapter: | MODEL: PS24A120K2000UD Input: AC 100-240V 50/60Hz 1.0A Output: DC 12V, 2000mA |





| Operation | Operation Frequency each of channel | | | | | | |
|-----------|-------------------------------------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2402MHz |
| The middle channel | 2442MHz |
| The Highest channel | 2480MHz |



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5.3 Test environment and mode

| Operating Environment: | |
|------------------------|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test mode: | |
| Operation mode | Keep the EUT in continuous transmitting with modulation |

The sample was placed 0.8m 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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

N/A

5.5 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• 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.

5.6 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

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Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





5.7 Test Instruments list

| Rad | Radiated Emission: | | | | | | |
|------|--------------------------------------|-----------------------------------|-----------------------------|------------------|-------------------------|-----------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | |
| 1 | 3m Semi- Anechoic Chamber | SAEMC | 9(L)*6(W)* 6(H) | CCIS0001 | 08-23-2014 | 08-22-2017 | |
| 2 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | CCIS0005 | 03-28-2015 | 03-28-2016 | |
| 3 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA9120D | CCIS0006 | 03-28-2015 | 03-28-2016 | |
| 4 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |
| 5 | Amplifier (10kHz-1.3GHz) | HP | 8447D | CCIS0003 | 04-01-2015 | 03-31-2016 | |
| 6 | Amplifier (1GHz-18GHz) | Compliance Direction Systems Inc. | PAP-1G18 | CCIS0011 | 04-01-2015 | 03-31-2016 | |
| 7 | Pre-amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | 04-01-2015 | 03-31-2016 | |
| 8 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | 04-01-2015 | 03-31-2016 | |
| 9 | Printer | HP | HP LaserJet P1007 | N/A | N/A | N/A | |
| 10 | Positioning Controller | UC | UC3000 | CCIS0015 | N/A | N/A | |
| 11 | Spectrum analyzer 9k-30GHz | Rohde & Schwarz | FSP | CCIS0023 | 03-28-2015 | 03-28-2016 | |
| 12 | EMI Test Receiver | Rohde & Schwarz | ESPI | CCIS0022 | 03-28-2015 | 03-28-2016 | |
| 13 | Loop antenna | Laplace instrument | RF300 | EMC0701 | 04-01-2015 | 03-31-2016 | |
| 14 | Universal radio communication tester | Rhode & Schwarz | CMU200 | CCIS0069 | 03-28-2015 | 03-28-2016 | |
| 15 | Signal Analyzer | Rohde & Schwarz | FSIQ3 | CCIS0088 | 04-08-2015 | 04-08-2016 | |

| Con | Conducted Emission: | | | | | | | | |
|------|---------------------|--------------------|-----------------------|------------------|-------------------------|-----------------------------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | | | |
| 1 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | 11-10-2012 | 11-09-2015 | | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCI | CCIS0002 | 03-28-2015 | 03-28-2016 | | | |
| 3 | LISN | CHASE | MN2050D | CCIS0074 | 03-28-2015 | 03-28-2016 | | | |
| 4 | Coaxial Cable | CCIS | N/A | CCIS0086 | 04-01-2015 | 03-31-2016 | | | |
| 5 | EMI Test Software | AUDIX | E3 | N/A | 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)

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.

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.

E.U.T Antenna:

The antenna of EUT is a reverse-SMA connector, which cannot be replaced by end-user. And the antenna gain is 2.5 dBi.







6.2 Conducted Emission

| Test Requirement: Test Method: ANSI C63.4: 2009 Test Frequency Range: Class / Severity: Class B Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 5 66 46 5-30 60 50 * Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power through a lisn impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/fouH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane LISN | | | | | | |
|--|-----------------------|--|-----------------------|---------------|--|--|
| Test Frequency Range: Class / Severity: Class B Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56° 56 to 46° 0.5-5 56 446 5-3-30 60 50 * Decreases with the logarithm of the frequency. Test procedure 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane ISN June Impedence Stabikzation National Receiver Remark EUT Equipment Under Test LISN Line Impedence Stabikzation National Receiver Test Instruments: Refer to section 5.7 for details Test mode: Refer to section 5.3 for details | Test Requirement: | FCC Part 15 C Section 15.207 | 7 | | | |
| Class / Severity: Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56° 56 to 46° 0.5-5 56 48 5-30 60 50° * Decreases with the logarithm of the frequency. Test procedure 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane LISN AUX EUT: Equipment Under Test LISN Line impedence Stabilization Network Test table/Insulation plane Remark EUT: Equipment Under Test LISN Line impedence Stabilization Network Test table height=0 im height=0 i | Test Method: | ANSI C63.4: 2009 | | | | |
| Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) 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 1. 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. 2. 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). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane LISN AUX EUT Equipment Under Test LISN Line impedence Stabilization Network Test table/Insulation plane Reference Plane Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details | Test Frequency Range: | 150 kHz to 30 MHz | | | | |
| Limit: Frequency range (MHz) | Class / Severity: | Class B | | | | |
| Test procedure Prequency range (MHZ) | Receiver setup: | RBW=9kHz, VBW=30kHz | | | | |
| O.15-0.5 66 to 56* 56 to 46* | Limit: | Limit (dBuV) | | | | |
| Test procedure 1. 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. 2. 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). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane CISN AUX EUT Equipment Under Test LISN Line impedence Stabilization Network Test table height=0.8m Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details Refer to section 5.3 for details | | Frequency range (MHz) | Quasi-peak | Average | | |
| Test procedure Test procedure 1. 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. 2. 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). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane Reference Plane Reference Plane LISN AC power LISN Filter AC power Results LISN Line impedance Stabilization Nelwork Test lable height=0.8m Test mode: Refer to section 5.7 for details Refer to section 5.3 for details | | | | | | |
| * Decreases with the logarithm of the frequency. 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane Ref | | | | ł | | |
| 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane Reguipment Reguipment LISN AUX EQUIPMENT Under Test LISN Line Impedance Stabilization Network Test table height-0 8m Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details | | | | 50 | | |
| a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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: 2009 on conducted measurement. Test setup: Reference Plane Reference Plane Requipment LISN 40cm 80cm Filter AC power Remark E.U.T. Equipment Under Test LISN Line impedance Stabilization Network Test table height-0.0m Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details | | | | | | |
| AUX Equipment E.U.T Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m Test Instruments: Refer to section 5.7 for details Test mode: Refer to section 5.3 for details | | 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: 2009 on conducted | | | | |
| Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details | Test setup: | Reference Plane | | | | |
| Test mode: Refer to section 5.3 for details | | AUX Equipment Test table/Insulation pla Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization | U.T Filt EMI Receiver | er — AC power | | |
| | Test Instruments: | Refer to section 5.7 for details | ; | | | |
| Test results: Passed | Test mode: | Refer to section 5.3 for details | | | | |
| | Test results: | Passed | | | | |

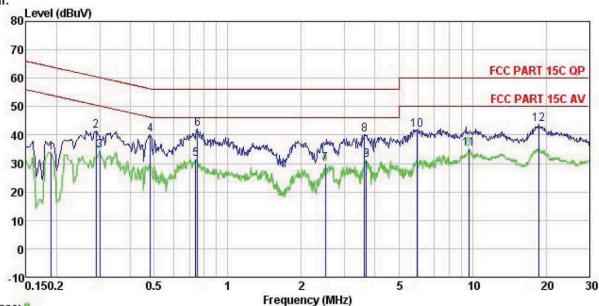
Measurement Data

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
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Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366









Trace: 9

Site

Condition

: CCIS Shielding Room : FCC PART 15C QP LISN NEUTRAL : 15.6° Android touch LCD Media Player : DT15-AC4-720 EUT

Model Test Mode : BLE mode

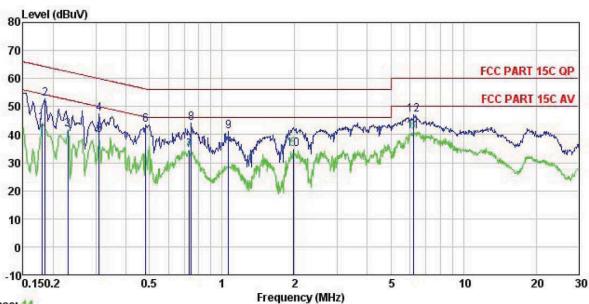
Power Rating: AC 120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: Viki

Remark

| MHz dBuV dB dB dBuV dBuV dB | |
|--|--------|
| | |
| 1 0.190 22.76 0.25 10.76 33.77 54.02 -20.25 Av | |
| 2 0.289 30.46 0.26 10.74 41.46 60.54 -19.08 QF |) |
| 3 0.300 23.47 0.26 10.74 34.47 50.24 -15.77 Av | rerage |
| 4 0.484 29.28 0.28 10.75 40.31 56.27 -15.96 QF |) |
| 5 0.739 20.56 0.19 10.79 31.54 46.00 -14.46 Av | rerage |
| 6 0.751 31.26 0.19 10.79 42.24 56.00 -13.76 QF |) - |
| 7 2.500 18.52 0.29 10.94 29.75 46.00 -16.25 Av | rerage |
| 1 0.190 22.76 0.25 10.76 33.77 54.02 -20.25 Av 2 0.289 30.46 0.26 10.74 41.46 60.54 -19.08 QF 3 0.300 23.47 0.26 10.74 34.47 50.24 -15.77 Av 4 0.484 29.28 0.28 10.75 40.31 56.27 -15.96 QF 5 0.739 20.56 0.19 10.79 31.54 46.00 -14.46 Av 6 0.751 31.26 0.19 10.79 42.24 56.00 -13.76 QF 7 2.500 18.52 0.29 10.94 29.75 46.00 -16.25 Av 8 3.623 28.95 0.29 10.90 40.14 56.00 -15.86 QF 9 3.681 20.15 0.29 10.90 31.34 46.00 -14.66 Av | , - |
| 9 3.681 20.15 0.29 10.90 31.34 46.00 -14.66 Av | rerage |
| 10 5.929 30.84 0.27 10.82 41.93 60.00 -18.07 QF | |
| 11 9.654 23.98 0.25 10.92 35.15 50.00 -14.85 Av | rerage |
| 12 18.622 32.69 0.26 10.91 43.86 60.00 -16.14 QF | |



Line:



Trace: 11 Site

Condition

: CCIS Shielding Room : FCC PART 15C QP LISN LINE : 15.6" Android touch LCD Media Player : DT156-AC4-720

Model

Test Mode : BLE mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Viki

Remark

EUT

| Freq | | | Cable Loss | Level | Limit Line | Over Limit | Remark |
|-------|--|---|--|--|--|--|---|
| MHz | dBu₹ | <u>dB</u> | dB | dBu₹ | dBu∇ | <u>dB</u> | |
| 0.180 | 33.19 | 0.28 | 10.77 | 44.24 | 54.50 | -10.26 | Average |
| 0.185 | 41.73 | 0.28 | 10.77 | 52.78 | 64.24 | -11.46 | QP |
| 0.230 | 30.93 | 0.27 | 10.75 | 41.95 | 52.44 | -10.49 | Average |
| 0.310 | 36.39 | 0.26 | 10.74 | 47.39 | 59.97 | -12.58 | QP |
| 0.310 | 28.67 | 0.26 | 10.74 | 39.67 | 49.97 | -10.30 | Average |
| 0.484 | 32.41 | 0.29 | 10.75 | 43.45 | 56.27 | -12.82 | QP |
| 0.731 | 23.64 | 0.22 | 10.78 | 34.64 | 46.00 | -11.36 | Average |
| 0.747 | 33.02 | 0.23 | 10.79 | 44.04 | 56.00 | -11.96 | QP |
| 1.065 | 29.90 | 0.25 | 10.88 | 41.03 | 56.00 | -14.97 | QP |
| 1.970 | 23.46 | 0.26 | 10.96 | 34.68 | 46.00 | -11.32 | Average |
| 6.186 | 29.86 | 0.31 | 10.82 | 40.99 | 50.00 | -9.01 | Average |
| 6.219 | 35.85 | 0.31 | 10.82 | 46.98 | 60.00 | -13.02 | QP |
| | Freq 0.180 0.185 0.230 0.310 0.484 0.731 0.747 1.065 1.970 6.186 | Read Level MHz dBuV 0.180 33.19 0.185 41.73 0.230 30.93 0.310 36.39 0.310 28.67 0.484 32.41 0.731 23.64 0.747 33.02 1.065 29.90 1.970 23.46 6.186 29.86 | Read LISN Freq Level Factor MHz dBuV dB 0.180 33.19 0.28 0.185 41.73 0.28 0.230 30.93 0.27 0.310 36.39 0.26 0.310 28.67 0.26 0.484 32.41 0.29 0.731 23.64 0.22 0.747 33.02 0.23 1.065 29.90 0.25 1.970 23.46 0.26 6.186 29.86 0.31 | Read LISN Cable Freq Level Factor Loss MHz dBuV dB dB 0.180 33.19 0.28 10.77 0.185 41.73 0.28 10.77 0.230 30.93 0.27 10.75 0.310 36.39 0.26 10.74 0.310 28.67 0.26 10.74 0.484 32.41 0.29 10.75 0.731 23.64 0.22 10.78 0.747 33.02 0.23 10.79 1.065 29.90 0.25 10.88 1.970 23.46 0.26 10.96 6.186 29.86 0.31 10.82 | Read LISN Cable Level Freq Level Factor Loss Level | Read LISN Cable Limit Freq Level Factor Loss Level Line MHz dBuV dB dB dB dBuV dBuV 0.180 33.19 0.28 10.77 44.24 54.50 0.185 41.73 0.28 10.77 52.78 64.24 0.230 30.93 0.27 10.75 41.95 52.44 0.310 36.39 0.26 10.74 47.39 59.97 0.310 28.67 0.26 10.74 39.67 49.97 0.484 32.41 0.29 10.75 43.45 56.27 0.731 23.64 0.22 10.78 34.64 46.00 0.747 33.02 0.23 10.79 44.04 56.00 1.065 29.90 0.25 10.88 41.03 56.00 1.970 23.46 0.26 10.96 34.68 46.00 6.186 29.86 0.31 10.82 40.99 50.00 | Read LISN Cable Limit Over Level Factor Loss Level Line Limit |

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 Peak Output Power

| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3) | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.4: 2009 | | | | | | |
| Limit: | 30dBm | | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | |
| Test Instruments: | Refer to section 5.7 for details | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |
| Test results: | Refer to FCC ID: 2AB6Z-1859ATMB | | | | | | |
| Remark: | Test method refer to KDB558074 v03r01 (DTS Measure Guidance) section 9.2.2.2 | | | | | | |





6.4 Occupy Bandwidth

| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2) | | | | | | |
|-------------------|---|--|--|--|--|--|--|
| Test Method: | ANSI C63.4: 2009 | | | | | | |
| Limit: | >500kHz | | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | |
| Test Instruments: | Refer to section 5.7 for details | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |
| Test results: | Refer to FCC ID: 2AB6Z-1859ATMB | | | | | | |





6.5 Power Spectral Density

| - | |
|-------------------|---|
| Test Requirement: | FCC Part 15 C Section 15.247 (e) |
| Test Method: | ANSI C63.4: 2009 |
| Limit: | 8 dBm |
| Test setup: | Spectrum Analyzer |
| | Non-Conducted Table Ground Reference Plane |
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Refer to FCC ID: 2AB6Z-1859ATMB |





6.6 Band Edge

6.6.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | | |
|-------------------|---|--|--|--|--|--|--|
| Test Method: | ANSI C63.4: 2009 | | | | | | |
| | | | | | | | |
| 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. | | | | | | |
| Test setup: | | | | | | | |
| | Spectrum Analyzer | | | | | | |
| | Spectrum Analyzer E.U.T Non-Conducted Table | | | | | | |
| | Ground Reference Plane | | | | | | |
| Test Instruments: | Refer to section 5.7 for details | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |
| Test results: | Refer to FCC ID: 2AB6Z-1859ATMB | | | | | | |





6.6.2 Radiated Emission Method

| Radiated Emission is | notino a | | | | | | | |
|--------------------------|--|---|--|---|--|--|--|--|
| Test Requirement: | FCC Part 15 C Section 15.209 and 15.205 | | | | | | | |
| Test Method: | ANSI C63.4: 2009 | | | | | | | |
| Test Frequency Range: | 2.3GHz to 2.5GHz | | | | | | | |
| Test site: | Measurement D | istance: 3m | | | | | | |
| Receiver setup: | Frequency Above 1GHz | Detector Peak Peak | RBW 1MHz 1MHz | VBW 3MHz 10Hz | Remark Peak Value Average Value | | | |
| Limit: | | | 1 | ı | | | | |
| | Freque | ency | Limit (dBuV/ | | Remark | | | |
| | Above 1 | | 54.0 74.0 | 0 | Average Value Peak Value | | | |
| Test Procedure: | the ground to determin 2. The EUT wantenna, wantenna, wantenna and the ground Both horizon make the numbers and to find the substitute of the emission of the EUT have 10 defined to determine the substitute of t | at a 3 meter cane the position of a yas set 3 meters which was mount a height is varieto determine the ontal and vertical and vertical and vertical easurement. The ontal and vertical easurement and the rota table of maximum readiceiver system where it is not level of the ecified, then test would be reported. | amber. The toof the highest saway from ted on the too ed from one maximum al polarizations to high was turned from the ed from | table was rost radiation. The interfer op of a variation are meter to for a value of the ons of the are to heights of the degree at Detect old Mode. It is mode was the stopped arise the emit one by one | our meters above e field strength. Intenna are set to aged to its worst from 1 meter to 4 ees to 360 degrees | | | |
| Test setup: | Sheet. Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier | | | | | | | |
| Test Instruments: | Refer to section | | | | | | | |
| Test mode: | Refer to section | 5.3 for details | | | | | | |
| Test results: | Passed | | | | | | | |





Measurement data

| Test mode: B | est mode: BLE | | | Test channel: Lowest | | | Remark: Peak | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|--|--|
| 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) | Polar. | | |
| 2390 | 22.12 | 27.58 | 6.63 | 0 | 56.33 | 74 | -17.67 | Vertical | | |
| 2390 | 22.30 | 27.58 | 6.63 | 0 | 56.51 | 74 | -17.49 | Horizontal | | |
| Test mode: B | LE | | Test char | nnel: Lowest | | Remark: Ave | erage | | | |
| 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) | Polar. | | |
| 2390 | 10.64 | 27.58 | 6.63 | 0 | 44.85 | 54 | -9.15 | Vertical | | |
| 2390 | 10.97 | 27.58 | 6.63 | 0 | 45.18 | 54 | -8.82 | Horizontal | | |

| Test mode: Bl | LE | | Test chan | nel: Highest | | Remark: Pea | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|
| 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) | Polar. |
| 2483.5 | 21.54 | 27.52 | 6.85 | 0 | 55.91 | 74 | -18.09 | Vertical |
| 2483.5 | 22.44 | 27.52 | 6.85 | 0 | 56.81 | 74 | -17.19 | Horizontal |
| Test mode: Bl | LE | | Test chan | nel: Highest | | Remark: Ave | erage | |
| 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) | Polar. |
| 2483.5 | 10.42 | 27.52 | 6.85 | 0 | 44.79 | 54 | -9.21 | Vertical |
| 2483.5 | 10.20 | 27.52 | 6.85 | 0 | 44.57 | 54 | -9.43 | Horizontal |

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor





6.7 Spurious Emission

6.7.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | | |
|-------------------|---|--|--|--|--|--|--|
| • | | | | | | | |
| Test Method: | ANSI C63.4: 2009 | | | | | | |
| 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. | | | | | | |
| Test setup: | | | | | | | |
| | Spectrum Analyzer | | | | | | |
| | E.U.T Non-Conducted Table | | | | | | |
| | | | | | | | |
| | Ground Reference Plane | | | | | | |
| Test Instruments: | Refer to section 5.7 for details | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |
| Test results: | Refer to FCC ID: 2AB6Z-1859ATMB | | | | | | |



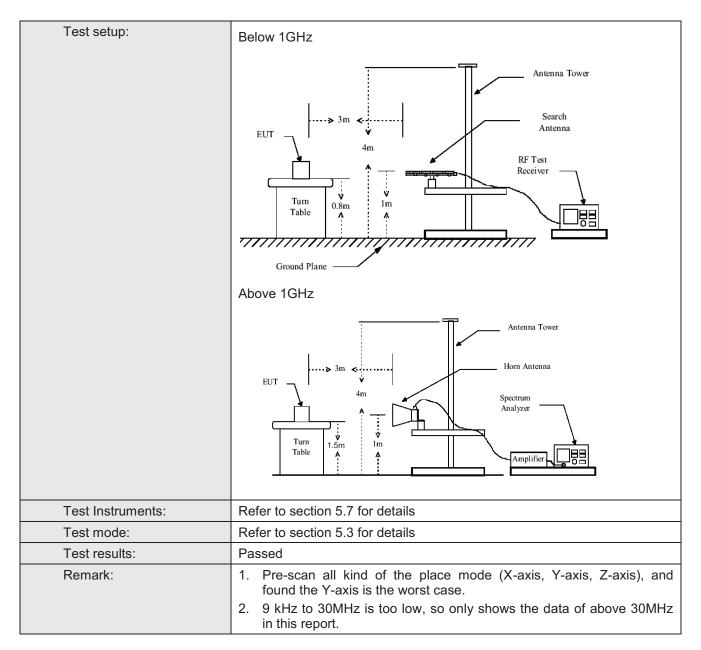


6.7.2 Radiated Emission Method

| Test Requirement: | FCC Part 15 C Section 15.209 and 15.205 | | | | | | |
|-----------------------|--|--|--|--|---|--|--|
| Test Method: | ANSI C63.4: 2009 | | | | | | |
| Test Frequency Range: | 9KHz to 25GHz | | | | | | |
| Test site: | Measurement D | istance: 3m | | | | | |
| Receiver setup: | | | | | | | |
| · | Frequency | Detector | RBW | VBW | Remark | | |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | |
| | Above Total | Peak | 1MHz | 10Hz | Average Value | | |
| Limit: | _ | 1 | | | T | | |
| | Frequency | | Limit (dBuV/m | @3m) | Remark | | |
| | 30MHz-88MHz | | 40.0 | | Quasi-peak Value | | |
| | 88MHz-216MHz | | 43.5 | | Quasi-peak Value | | |
| | 216MHz-960MH 960MHz-1GHz | | 46.0 54.0 | | Quasi-peak Value Quasi-peak Value | | |
| | 900IVITZ-1GTZ | | 54.0 54.0 | | Average Value | | |
| | Above 1GHz | <u> </u> | 74.0 | | Peak Value | | |
| Test Procedure: | the ground to determin 2. The EUT vantenna, was tower. 3. The antenrathe ground Both horizon make the make the make the make the make to find the maters and the material materials. | at a 3 meter e the position was set 3 m hich was mount and vertine and vertine assurement. Suspected emaximum reaction level of the cified, then to would be reparation would a margin would set to the cified, then to would be reparation in the cified, then to would be reparation in the cified, then to would be reparation would set to the cified, then to would be reparation would set to the cified, then to would be reparation would set to the cified, then to would set to the cified, then to would set to the cified, then to would set to the cified s | camber. The of the highes eters away funted on the taried from one the maximulical polarizations was turned awas turned ling. In was set in Maximum Hare EUT in peresting could be ported. Other in the taries was termed be re-tested. | table was at radiation. From the in op of a variance meter to um value of ions of the EUT was and to height from 0 deg to Peak Dold Mode. The stopped wise the erd one by on | le 0.8 meters above rotated 360 degrees | | |





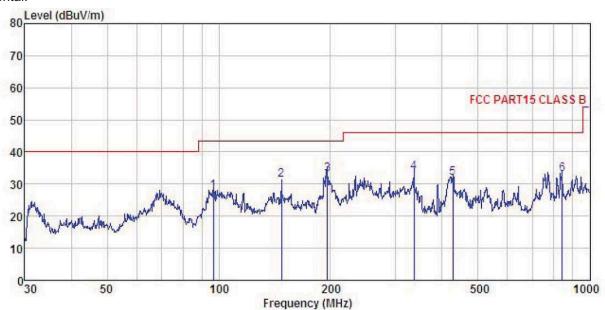






Below 1GHz

Horizontal:



Site 3m chamber

FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL 15.6" Android touch LCD Media Player DT156-AC4-720 Condition

EUT

Model BLE mode AC120V/60Hz Temp:25.5°C Huni:55% 101KPa Test mode Power Rating :

Environment :

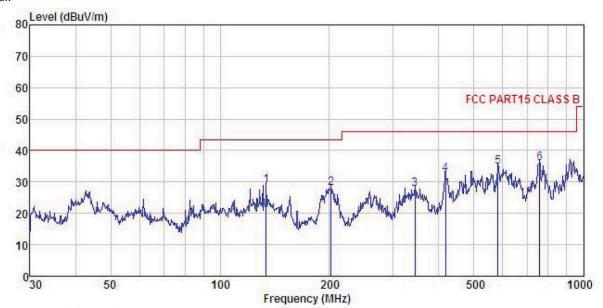
Test Engineer: Viki REMARK :

| | Read | Antenna | Cable | Preamp | | Limit | Over | |
|---------|---|--|---|---|--|--|---|---|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| MHz | dBu₹ | <u>dB</u> /m | d <u>B</u> | <u>d</u> B | dBuV/m | dBuV/m | dB | |
| 96.775 | 43.42 | 12.97 | 0.94 | 29.54 | 27.79 | 43.50 | -15.71 | QP |
| 147.404 | 51.10 | 8.24 | 1.30 | 29.23 | 31.41 | 43.50 | -12.09 | QP |
| 196.510 | 50.06 | 10.57 | 1.38 | 28.85 | 33.16 | 43.50 | -10.34 | QP |
| 336.035 | 46.39 | 13.99 | 1.89 | 28.53 | 33.74 | 46.00 | -12.26 | QP |
| 428.019 | 42.99 | 15.51 | 2.19 | 28.83 | 31.86 | 46.00 | -14.14 | QP |
| 842.130 | 37.21 | 20.51 | 3.24 | 28.03 | 32.93 | 46.00 | -13.07 | QP |
| | MHz 96.775 147.404 196.510 336.035 428.019 | Freq Level MHz dBuV 96.775 43.42 147.404 51.10 196.510 50.06 336.035 46.39 428.019 42.99 | Freq Level Factor MHz dBuV dB/m 96.775 43.42 12.97 147.404 51.10 8.24 196.510 50.06 10.57 336.035 46.39 13.99 428.019 42.99 15.51 | MHz dBuV dB/m dB 96.775 43.42 12.97 0.94 147.404 51.10 8.24 1.30 196.510 50.06 10.57 1.38 336.035 46.39 13.99 1.89 428.019 42.99 15.51 2.19 | Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 96.775 43.42 12.97 0.94 29.54 147.404 51.10 8.24 1.30 29.23 196.510 50.06 10.57 1.38 28.85 336.035 46.39 13.99 1.89 28.53 428.019 42.99 15.51 2.19 28.83 | MHz dBuV dB/m dB dB dBuV/m 96.775 43.42 12.97 0.94 29.54 27.79 147.404 51.10 8.24 1.30 29.23 31.41 196.510 50.06 10.57 1.38 28.85 33.16 336.035 46.39 13.99 1.89 28.53 33.74 428.019 42.99 15.51 2.19 28.83 31.86 | MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m 96.775 43.42 12.97 0.94 29.54 27.79 43.50 147.404 51.10 8.24 1.30 29.23 31.41 43.50 196.510 50.06 10.57 1.38 28.85 33.16 43.50 336.035 46.39 13.99 1.89 28.53 33.74 46.00 428.019 42.99 15.51 2.19 28.83 31.86 46.00 | MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m dBuV/m dB dB dBuV/m dBuV/m dBuV/m dB 96.775 43.42 12.97 0.94 29.54 27.79 43.50 -15.71 147.404 51.10 8.24 1.30 29.23 31.41 43.50 -12.09 196.510 50.06 10.57 1.38 28.85 33.16 43.50 -10.34 336.035 46.39 13.99 1.89 28.53 33.74 46.00 -12.26 428.019 42.99 15.51 2.19 28.83 31.86 46.00 -14.14 |





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : 15.6" Android touch LCD Media Player : DT156-AC4-720 Condition

EUT

lest mode : BLE mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C
Test Engineer: Viki
REMARK Model

Huni:55% 101KPa

| TURNE | | | | | | | | | |
|-----------------------|---------|-------|-------------------|------------|-----------|---------------------|---------------------|-----------|--------|
| | Freq | | Antenna Factor | | | | Limit Line | | Remark |
| _ | MHz | dBu∜ | | <u>d</u> B | <u>dB</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>dB</u> | |
| 1 | 134.088 | 48.33 | 8.61 | 1.22 | 29.31 | 28.85 | 43.50 | -14.65 | QP |
| 2 | 202.100 | 44.76 | 10.64 | 1.39 | 28.82 | 27.97 | 43.50 | -15.53 | QP |
| 2 3 4 5 6 | 344.386 | 40.05 | 14.20 | 1.92 | 28.55 | 27.62 | 46.00 | -18.38 | QP |
| 4 | 417.641 | 43.78 | 15.43 | 2.17 | 28.81 | 32.57 | 46.00 | -13.43 | QP |
| 5 | 582.743 | 42.96 | 18.14 | 2.59 | 28.99 | 34.70 | 46.00 | -11.30 | QP |
| 6 | 758.041 | 41.81 | 19.53 | 3.06 | 28.43 | 35.97 | 46.00 | -10.03 | QP |
| | | | | | | | | | |



Above 1GHz

| Test channel: | | Lowest | | Level: | | Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 4804.00 | 43.25 | 31.53 | 10.57 | 40.24 | 45.11 | 74.00 | -28.89 | Vertical |
| 4804.00 | 43.35 | 31.53 | 10.57 | 40.24 | 45.21 | 74.00 | -28.79 | Horizontal |

| Test channel: | | Lowest | | Level: | | Average | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 4804.00 | 35.45 | 31.53 | 10.57 | 40.24 | 37.31 | 54.00 | -16.69 | Vertical |
| 4804.00 | 35.12 | 31.53 | 10.57 | 40.24 | 36.98 | 54.00 | -17.02 | Horizontal |

| Test channel: | | Middle | | Level: | | Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 4884.00 | 45.05 | 31.58 | 10.66 | 40.15 | 47.14 | 74.00 | -26.86 | Vertical |
| 4884.00 | 44.13 | 31.58 | 10.66 | 40.15 | 46.22 | 74.00 | -27.78 | Horizontal |

| Test channel: | | Middle | | Level: | | Average | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 4884.00 | 36.05 | 31.58 | 10.66 | 40.15 | 38.14 | 54.00 | -15.86 | Vertical |
| 4884.00 | 34.97 | 31.58 | 10.66 | 40.15 | 37.06 | 54.00 | -16.94 | Horizontal |

| Test channel: | | Highest | | Level: | | Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 4960.00 | 43.26 | 31.69 | 10.73 | 40.03 | 45.65 | 74.00 | -28.35 | Vertical |
| 4960.00 | 44.15 | 31.69 | 10.73 | 40.03 | 46.54 | 74.00 | -27.46 | Horizontal |

| Test channel: | | | Highest | | Level: | | Average | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 4960.00 | 33.62 | 31.69 | 10.73 | 40.03 | 36.01 | 54.00 | -17.99 | Vertical |
| 4960.00 | 33.48 | 31.69 | 10.73 | 40.03 | 35.87 | 54.00 | -18.13 | 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.