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1. General Information

1.1 Applied Standard

Applied Rules: 47 CFR FCC Part 2, Subpart J (10-1-10 Edition)
47 CFR FCC Part 15, Subpart C (10-1-10 Edition)

IC RSS-Gen (Issue 3, December 2010)
IC RSS-210 (Issue 8, December 2010)

Test Method: KDB 558074

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Huawei Base, Bantian, Longgang District, Shenzhen 518129,
P.R. China

1.3 Test Environment Condition

Ambient Temperature: 20.5 – 25 °C
Ambient Relative Humidity: 50 – 66 %
Atmospheric Pressure: Not applicable

1.4 Test Date

Date: 2011-07-01 to 2011-09-01

2. Test Summary

| No. | Test Case | FCC Part No. | Result |
|-----|--|---------------------|------------|
| 1 | Minimum 6dB bandwidth | 15.247(a)(2) | Not test * |
| 2 | Maximum Peak Conducted Output Power | 15.247(b)(3) | Not test * |
| 3 | Conducted Band Edge Compliance | 15.247(d) | Not test * |
| 4 | Conducted RF Spurious | 15.247(d) | Not test * |
| 5 | Conducted Power Spectral Density | 15.247(e) | Not test * |
| 6 | Radiated Emissions in the Restricted Bands | 15.247(d) 15.209 | Pass |
| 7 | AC Power Line Conducted Emissions | 15.207 | Pass |

| No. | Test Case | IC Standard No. | Result |
|-----|--|---|------------|
| 1 | Minimum 6 dB Bandwidth | RSS-210, A8.2(a) | Not test * |
| 2 | Maximum Peak Conducted Output Power | RSS-210, A8.4(4) | Not test * |
| 3 | Conducted Band Edge Compliance | RSS-210, A8.5 | Not test * |
| 4 | Conducted RF Spurious | RSS-210, A8.5 | Not test * |
| 5 | Conducted Power Spectral Density | RSS-210, A8.2(b) | Not test * |
| 6 | Radiated Emissions in the Restricted Bands | RSS-210, A8.5 RSS-210, 2.2 RSS-Gen, 7.2.2 RSS-Gen, 7.2.5 | Pass |
| 7 | Radiated Receiver Spurious Emissions | RSS-210, 2.3 RSS-Gen, 6.1 | Not test * |
| 8 | AC Power Line Conducted Emissions | RSS-Gen, 7.2.4 | Pass |

* - Contains single transmitter module FCC ID:NKR-DNMA91 and IC ID:4441A-DNMA91.
Refer to the original test data of this signal transmitter module.

3. Description of the Equipment under Test (EUT)

3.1 General Description

The enterprise network access router AR V200R001C01 provides three models with WIFI: AR1220W, AR1220VW, and AR1220W-S. They have the same architecture, power supply module, adaptor and similar board, but different functions. AR1220W and AR1220W-S have the same board, but different functions. AR1220VW support voice card, but AR1220W and AR1220W-S don't support. They operate on the Versatile Routing Platform (VRP) operating system and IAS system developed by Huawei and adopts the hardware-based forwarding and non-blocking data switching technology. They feature carrier-class reliability, line-speed forwarding capability, perfect Quality of Service (QoS) mechanism, service processing capability, and good expansibility.

The test report is based on the report for the WLAN module installed within the product. The WLAN module was proved complying with relevant standard, see test report(s) issued by "Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory" with report number "RF110725C08" (for FCC) and "IC110725C08" (for IC) for the WLAN module with model number "DNMA-91". The present report provides additive measurements to prove that the whole product still complies with relevant standard.

3.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

3.2.1 Board

| Board | | |
|------------|------------------|--|
| Board Name | Hardware Version | Description |
| AR01SRU1H | VER.C | AR1220VW Main Control Board |
| AR01SRU1B | VER.C | AR1220W and AR1220W-S Main Control Board |
| AR01DWA30A | VER.B | 802.11 b/g/n 2*2 WIFI Daughter Card |
| DNMA-91 | --- | WLAN 802.11 b/g/n Mini-PCI Module; Wistron NeWeb Corp. |
| SL15593A | --- | WLAN Antenna,2400-2500MHz,>2dBi,Vertical,Omni,5W,RP-SMA-J; Shenglu |

3.2.2 Sub-Assembly

| Sub-Assembly | | | |
|-------------------|-------|--------------|-------------|
| Sub-Assembly Name | Model | Manufacturer | Description |
| --- | --- | --- | --- |

3.3 Technical Description

3.3.1 Transmission / Receiving Characteristics

| Characteristics | Description |
|---------------------------------|--|
| TX/RX Operating Band | 2400 MHz to 2483.5 MHz |
| IEEE 802.11 WLAN Mode Supported | 802.11b: Supported 802.11g: Supported 802.11n : Supported |
| Channel Bandwidth | 802.11b: 20 MHz 802.11g: 20 MHz 802.11n: 20 MHz, 40 MHz |
| TX Power Control (TPC) | Supported |
| Type of Modulation | 802.11b: DSSS 802.11g: OFDM 802.11n: OFDM |
| Data Rate | 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n (SISO): MCS0 to MCS7 802.11n (MIMO): MCS0 to MCS15 |

3.3.2 Operating Channel Scheme

| Operating Mode | Description |
|--|--|
| 802.11b 802.11g 802.11n (20 MHz bandwidth) | $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: f_c = Operating Frequency in MHz, N = Channel Number with the range from 1 to 11 |
| 802.11n (40MHz bandwidth) | $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: f_c = Operating Frequency in MHz, N = Channel Number with the range from 3 to 9 |

3.3.3 Antenna Assemblies Profiles

NOTE: When the EUT is put into service, the Antenna Gain should NOT exceed the value used in this table.

| Characteristics | Description |
|-------------------------|---|
| Antenna Type | <input type="checkbox"/> Integrated, <input checked="" type="checkbox"/> External |
| Frequency Range | 2400 - 2500MHz |
| Antenna Ports | Ant 1, Ant 2 |
| Smart Antenna Systems | SISO, 2*2 MIMO |
| Antenna Gain (see NOTE) | 2.15 dBi |
| Remark | --- |

3.3.4 Power Supply

| Specification | Description |
|-------------------|--|
| Power Supply Type | Directly by Main line power |
| Input to EUT | AC Voltage Nominal: ~220V AC Voltage Range: ~100-240,50/60Hz,2A |

3.3.5 Working Environment

| Specification | Description |
|-------------------|-----------------|
| Temperature | -5 °C to +55 °C |
| Relative Humidity | 5% to 95% |

4. General Test Conditions / Configurations

4.1 Test Sample

- The report applies to single model.
 The report applies to several models; the practical measurements are performed using the model AR1220VW.

4.2 Test Modes

NOTE: Typical working modes for each IEEE 802.11 mode are selected to perform tests.

| Test Mode | Test Modes Description |
|--------------|--|
| 11B | IEEE 802.11b with data rate of 1 Mbps |
| 11G | IEEE 802.11g with data rate of 6 Mbps |
| 11N_20M_SISO | IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz, using SISO mode |
| 11N_20M_MIMO | IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz, using MIMO mode |
| 11N_40M_SISO | IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz, using SISO mode |
| 11N_40M_MIMO | IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz, using MIMO mode |

4.3 Frequencies under Test

| Test Mode | RF Channel | | |
|--|---------------------|---------------------|----------------------|
| | Lowest/Bottom (B) | Middle (M) | Highest/Top (T) |
| 11B, 11G, 11N_20M_SISO, 11N_20M_MIMO | Ch No. 1 / 2412 MHz | Ch No. 6 / 2437 MHz | Ch No. 11 / 2462 MHz |
| 11N_40M_SISO, 11N_40M_MIMO | Ch No. 3 / 2422 MHz | Ch No. 6 / 2437 MHz | Ch No. 9 / 2452 MHz |

4.4 Test Environments

NOTE: The values used in the test report may be stringent than the declared.

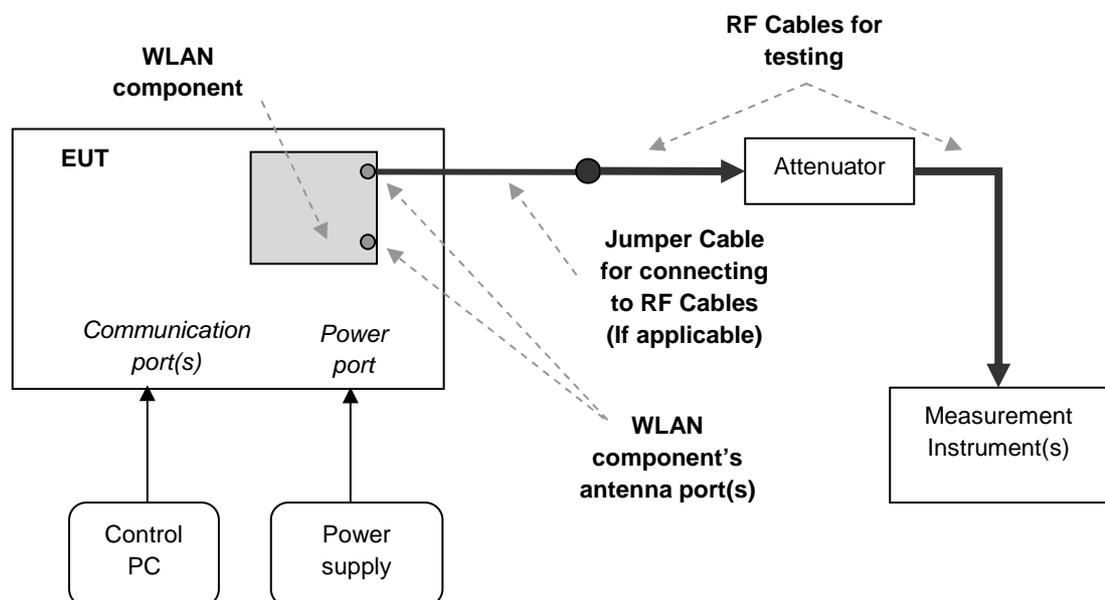
| Environment Parameter | Selected Values During Tests | | |
|-----------------------|------------------------------|---------|-------------------|
| | Temperature | Voltage | Relative Humidity |
| NTNV | Ambient | Rated | Ambient |

4.5 Test Setups

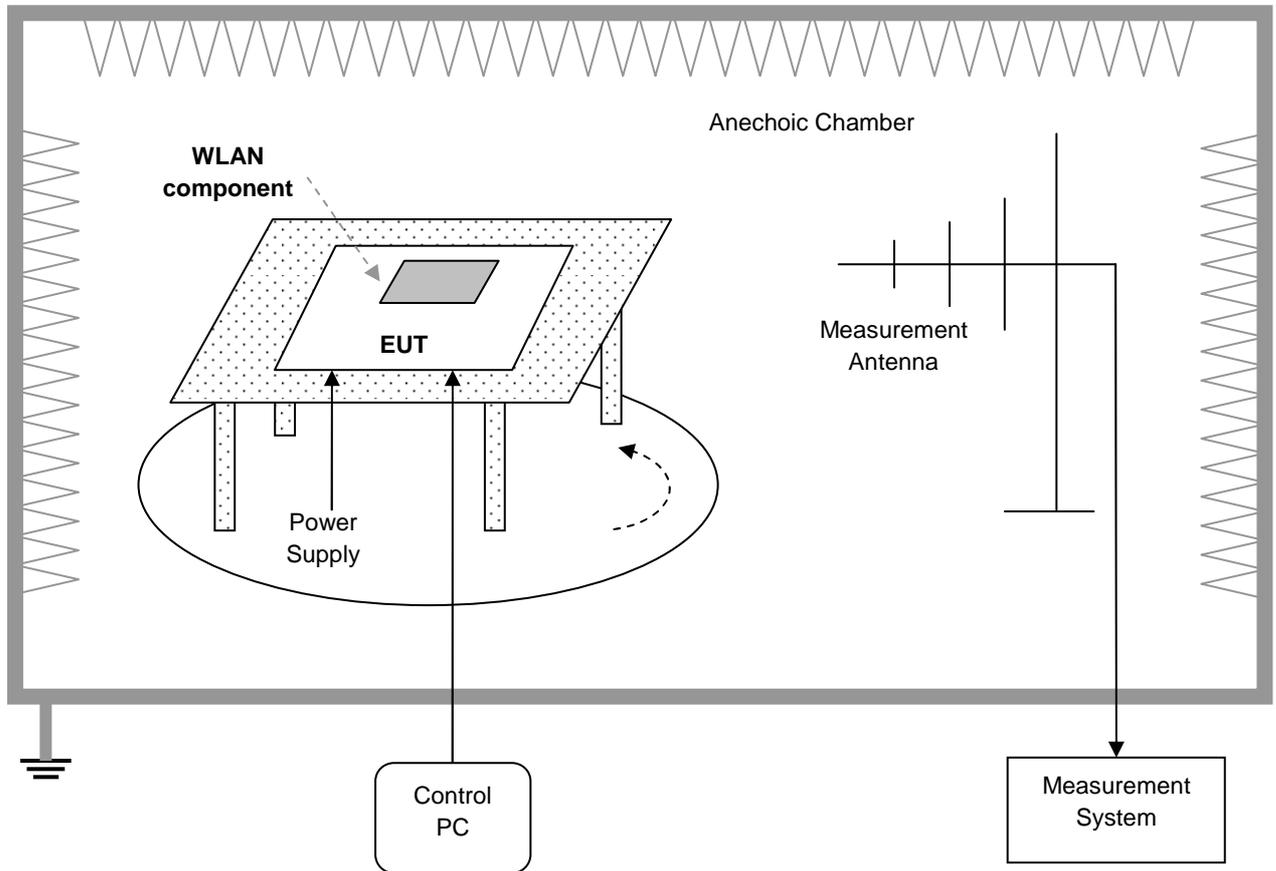
4.5.1 General Test Setup Configurations

| Configuration | Description |
|---------------------|--|
| Test Antenna Ports | Until declared, all Transmitter tests are performed at all antenna ports of the EUT; all Receiver tests are performed at all antenna ports. |
| Multiple RF Sources | Other non-WLAN RF source(s) (if applicable) of the EUT are disabled or shutdown during measurements for WLAN RF source, which is considered in the present report. |

4.5.2 Test Setup 1



4.5.3 Test Setup 2



4.6 Test Conditions

| Test Case | Test Conditions | |
|--|-----------------------|--|
| | Configuration | Description |
| Radiated Emissions in the Restricted Bands | Measurement Method | Test Setup 2 |
| | Power Level | Highest |
| | Test Conditions | NTNV |
| | Smart Antenna Systems | Ant 1, Ant 2 |
| | Test Modes | Worst case of 11B, 11G, 11N_20M_SISO, 11N_20M_MIMO, 11N_40M_SISO, 11N_40M_MIMO |
| | Test Frequency | Worst case of B, M, T |

5. Test Results

5.1 FCC Requirements

5.1.1 Radiated Emissions in the Restricted Bands

According to FCC Part 15.247(d):

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a).

According to FCC Part 15.209 and relevant rules:

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ($\mu\text{V}/\text{m}$) | Field Strength ($\text{dB}\mu\text{V}/\text{m}$) | Measurement Distance (m) | Detector |
|-----------------|---|--|--------------------------|------------|
| 0.009 – 0.090 | 2400/F(kHz) | $20 \cdot \lg(2400/F(\text{kHz}))$ | 300 | Average |
| 0.090 – 0.110 | 2400/F(kHz) | $20 \cdot \lg(2400/F(\text{kHz}))$ | 300 | Quasi-peak |
| 0.110 – 0.490 | 2400/F(kHz) | $20 \cdot \lg(2400/F(\text{kHz}))$ | 300 | Average |
| 0.490 – 1.705 | 24000/F(kHz) | $20 \cdot \lg(24000/F(\text{kHz}))$ | 30 | Quasi-peak |
| 1.705 – 30.0 | 30 | 29.5 | 30 | Quasi-peak |
| 30 – 88 | 100 | 40 | 3 | Quasi-peak |
| 88 – 216 | 150 | 43.5 | 3 | Quasi-peak |
| 216 – 960 | 200 | 46 | 3 | Quasi-peak |
| 960 – 1000 | 500 | 54 | 3 | Quasi-peak |
| Above 1000 | 500 | 54 | 3 | Average |
| Above 1000 | --- | 74 | 3 | Peak |

All test results and plots refer to attached Appendix 1 for details.

5.1.2 AC Power Line Conducted Emissions

According to FCC Part 15.207 and relevant rules:

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

| Frequency of Emission (MHz) | Conducted Limit (dB μ V) | |
|-----------------------------|------------------------------|------------|
| | 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.

All test results and plots refer to attached Appendix 1 for details.

5.2 IC Requirements

5.2.1 Radiated Emissions in the Restricted Bands

According to RSS-210 A8.5:

Attenuation below the general field strength limits specified in RSS-Gen is not required.

According to RSS-210 2.2:

Category I licence-exempt equipment is required to comply with the provisions in RSS-Gen with respect to emissions falling within restricted frequency bands. These restricted frequency bands are listed in RSS-Gen.

According to RSS-Gen 7.2.2:

Restricted bands, identified in Table 3 of RSS-Gen, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply: (a) fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 3 of RSS-Gen; (b) unwanted emissions falling into restricted bands of Table 3 of RSS-Gen shall comply with the limits specified in RSS-Gen; (c) unwanted emissions not falling within restricted frequency bands shall either comply with the limits specified in the applicable RSS, or with those specified in RSS-Gen.

According to RSS-Gen 7.2.5:

Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown below. Additionally, the level of any transmitter spurious emission shall not exceed the level of the transmitter's fundamental emission.

| Frequency (MHz) | Field Strength (µV/m) | Magnetic H-Field (µA/m) | Measurement Distance (m) | Detector |
|-----------------|-----------------------|-------------------------|--------------------------|------------|
| 0.009 – 0.090 | 2400/F(kHz) | 2400/377F(kHz) | 300 | Average |
| 0.090 – 0.110 | 2400/F(kHz) | 2400/377F(kHz) | 300 | Quasi-peak |
| 0.110 – 0.490 | 2400/F(kHz) | 2400/377F(kHz) | 300 | Average |
| 0.490 – 1.705 | 24000/F(kHz) | 24000/377F(kHz) | 30 | Quasi-peak |
| 1.705 – 30.0 | 30 | --- | 30 | Quasi-peak |

| Frequency (MHz) | Field Strength (µV/m) | Field Strength (dBµV/m) | Measurement Distance (m) | Detector |
|-----------------|-----------------------|-------------------------|--------------------------|------------|
| 30 – 88 | 100 | 40 | 3 | Quasi-peak |
| 88 – 216 | 150 | 43.5 | 3 | Quasi-peak |
| 216 – 960 | 200 | 46 | 3 | Quasi-peak |
| 960 – 1000 | 500 | 54 | 3 | Quasi-peak |
| Above 1000 | 500 | 54 | 3 | Average |

All test results and plots refer to attached Appendix 1 for details.

5.2.2 AC Power Line Conducted Emissions

According to RSS-Gen 7.2.4 and relevant rules:

Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The more stringent limit applies at the frequency range boundaries. The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network (LISN).

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | |
|-----------------------------|------------------------|------------|
| | 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.

All test results and plots refer to attached Appendix 1 for details.

6. Main Test Instruments

| Equipment Name | Manufacturer | Model | Cal. Due |
|----------------------------|-------------------------|-----------|------------|
| Radiated Emissions | | | |
| Chamber | Albatross Projects GmbH | 10m | --- |
| EMI Test receiver | R&S | ESU40 | 2012-05-12 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 2011-11-25 |
| Broadband Antenna | SCHAFFNER | CBL 6112B | 2011-12-10 |
| Horn Antenna (1G-18G) | R&S | HF907 | 2012-05-13 |
| Horn Antenna (18G-26.5G) | ETS-LINDGREN | 3160-9 | 2011-12-13 |
| Conducted Emissions | | | |
| EMI Test receiver | R&S | ESCI 3 | 2012-05-05 |
| Artificial Mains Network | R&S | ENV4200 | 2012-05-13 |

Test Results of Radiated Emissions in the Restricted Bands

Result Table

NOTE 1: For range from 9 kHz to 30MHz was investigated and carried out on all operation modes, no any deviations were found.

NOTE 2: The whole testing range is from "30 MHz to 26.5 GHz (10th harmonics)" is divided into 4 parts according to the test site settings, which are:

- Part 1: Test range of "30 MHz to 1 GHz",
- Part 2: Test range of "1 GHz to 3 GHz",
- Part 3: Test range of "3 GHz to 18 GHz".
- Part 4: Test range of "18 GHz to 26.5 GHz".

NOTE 3: For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at all chains to get a final result. The result is the directly measured sum of each chain.

(Part 1) Test Range of "30 MHz to 1 GHz"

NOTE: For this range, only test results and plots under the WORST case of all Test Modes and Channels are reported.

| Test Mode | RF Ch. | Ant. | Maximum Emissions |
|--------------|--------------|--------------|--|
| Worst of all | Worst of all | Worst of all | Not found obvious spikes, or see marked spikes on plots. |

(Part 2) Test Range of "1 GHz to 3 GHz"

| Test Mode | RF Ch. | Ant. | Maximum Emissions |
|--------------|--------------|--------------|--|
| Worst of all | Worst of all | Worst of all | Not found obvious spikes, or see marked spikes on plots. |

(Part 3) Test Range of "3 GHz to 18 GHz"

| Test Mode | RF Ch. | Ant. | Maximum Spurious Emissions |
|--------------|--------------|--------------|--|
| Worst of all | Worst of all | Worst of all | Not found obvious spikes, or see marked spikes on plots. |

(Part 4) Test Range of "18 GHz to 26.5 GHz"

NOTE: For this range, only test results and plots under the WORST case of all Test Modes and Channels are reported.

| Test Mode | RF Ch. | Ant. | Maximum Emissions |
|--------------|--------------|--------------|--|
| Worst of all | Worst of all | Worst of all | Not found obvious spikes, or see marked spikes on plots. |

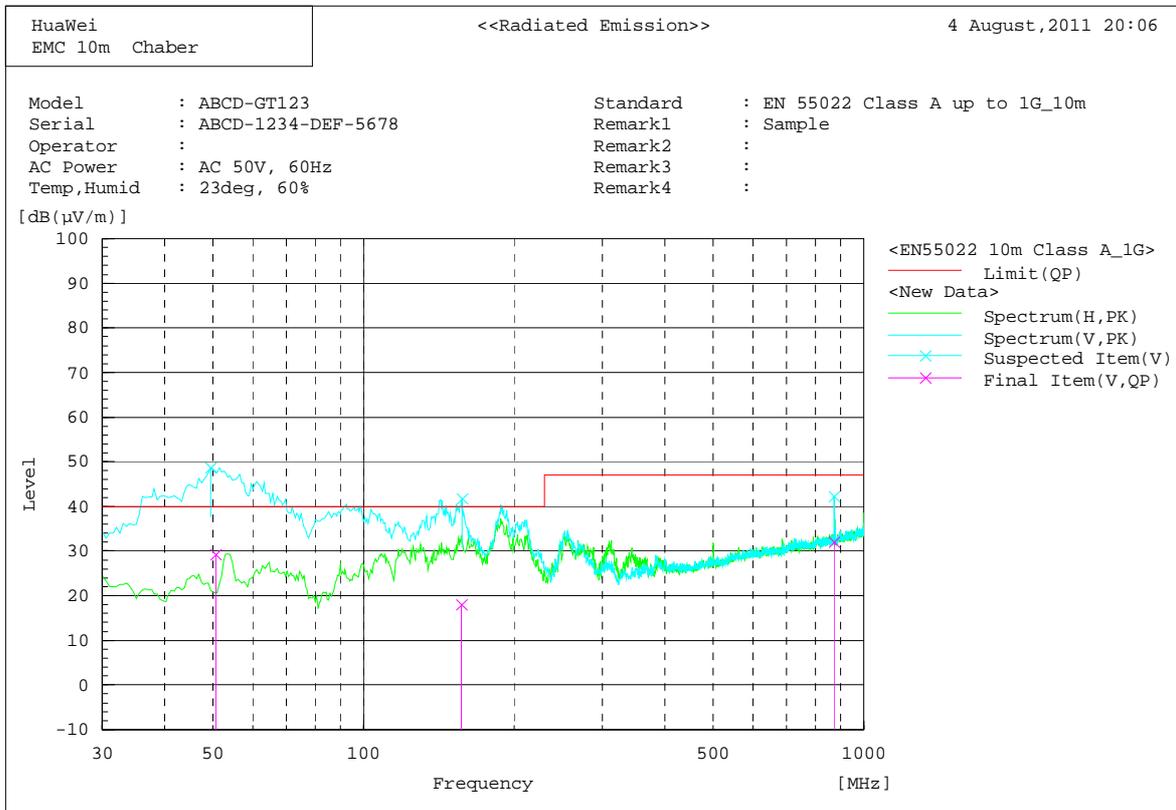
Test Plots

(Part 1) Test Range of "30 MHz to 1 GHz"

NOTE: The practical measurement was performed at 10 m, for which the limit lines derived from 3 m limits are:

- 30 MHz – 88 MHz: 29.5 dB μ V/m;
- 88 MHz – 216 MHz: 33 dB μ V/m;
- 216 MHz – 960 MHz: 35.5 dB μ V/m;
- 960 MHz – 1 GHz: 43.5 dB μ V/m.

The test result complies with the requirements.



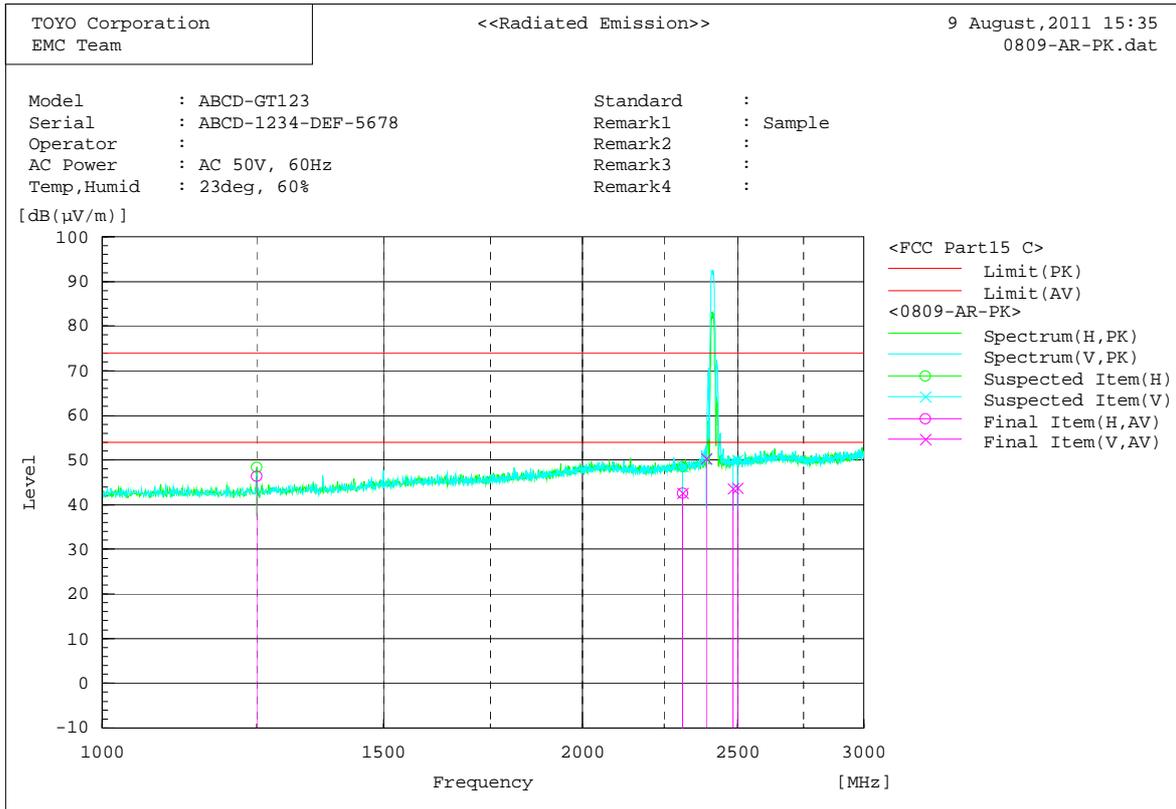
Final Result

| No. | Frequency [MHz] | (P) | S.C | Reading QP [dB(μV)] | c.f [dB(1/m)] | Result QP [dB(μV/m)] | Limit QP [dB(μV/m)] | Margin QP [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 50.667 | V | S | 64.5 | -35.2 | 29.3 | 40.0 | 10.7 | 101.0 | 147.0 | |
| 2 | 156.998 | V | S | 49.3 | -31.3 | 18.0 | 40.0 | 22.0 | 100.0 | 208.0 | |
| 3 | 872.493 | V | S | 49.2 | -17.1 | 32.1 | 47.0 | 14.9 | 125.0 | 91.0 | |

| Frequency MHz | Level @ 10m dB μ V/m | Calculated Net @ 3m dB μ V/m | Limit @ 3m dB μ V/m | Margin dB | Polarisation |
|---------------|--------------------------|----------------------------------|-------------------------|-----------|--------------|
| 50.667 | 29.3 | 39.7 | 40 | -0.3 | Vertical |
| 156.998 | 18.0 | 28.5 | 43 | -14.5 | Vertical |
| 872.493 | 32.1 | 42.6 | 46 | -3.4 | Vertical |

(Part 2) Test Range of "1 GHz to 3 GHz"

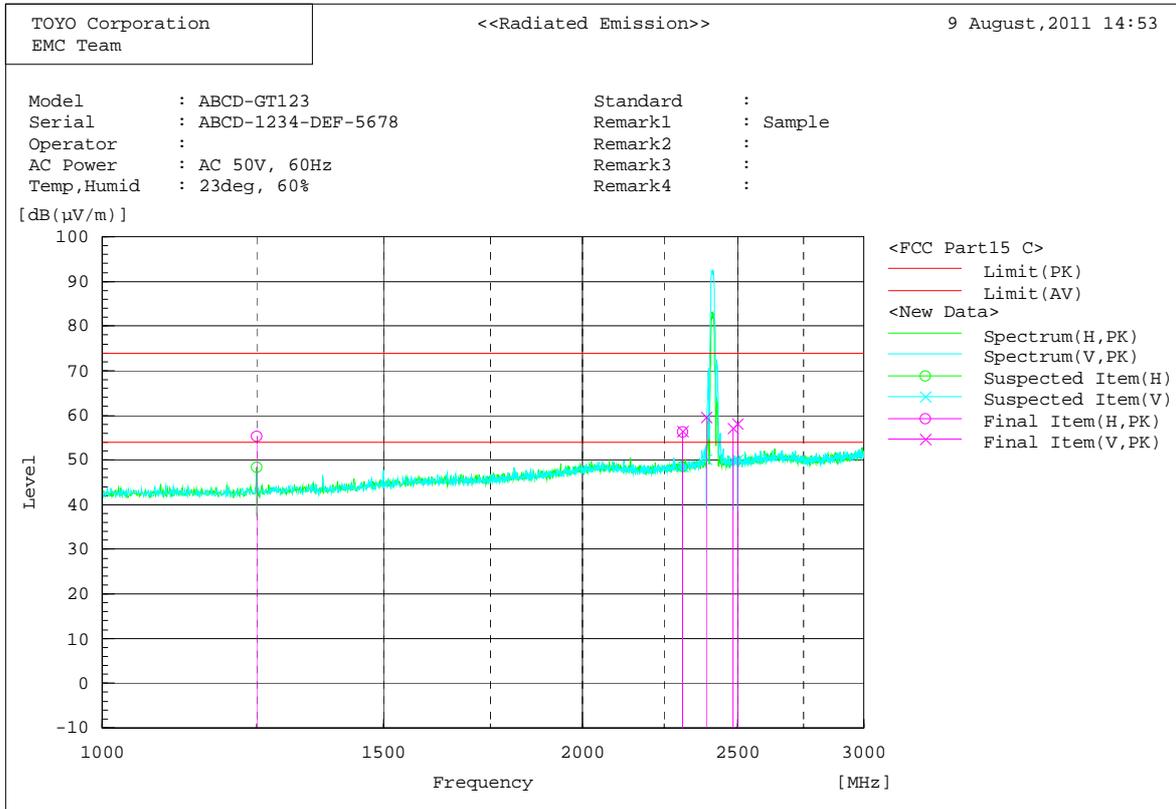
11B_Ch1_AV



Final Result

| No. | Frequency [MHz] | (P) | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result AV [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin AV [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 1249.935 | H | 37.9 | 8.5 | 46.4 | 54.0 | 7.6 | 100.0 | 274.0 | |
| 2 | 2310.858 | V | 28.0 | 14.6 | 42.6 | 54.0 | 11.4 | 138.0 | 22.0 | |
| 3 | 2310.152 | H | 28.0 | 14.6 | 42.6 | 54.0 | 11.4 | 156.0 | 241.0 | |
| 4 | 2390.864 | V | 35.5 | 14.9 | 50.4 | 54.0 | 3.6 | 100.0 | 321.0 | |
| 5 | 2484.418 | V | 27.7 | 15.8 | 43.5 | 54.0 | 10.5 | 100.0 | 110.0 | |
| 6 | 2500.920 | V | 27.8 | 15.9 | 43.7 | 54.0 | 10.3 | 263.0 | 133.0 | |

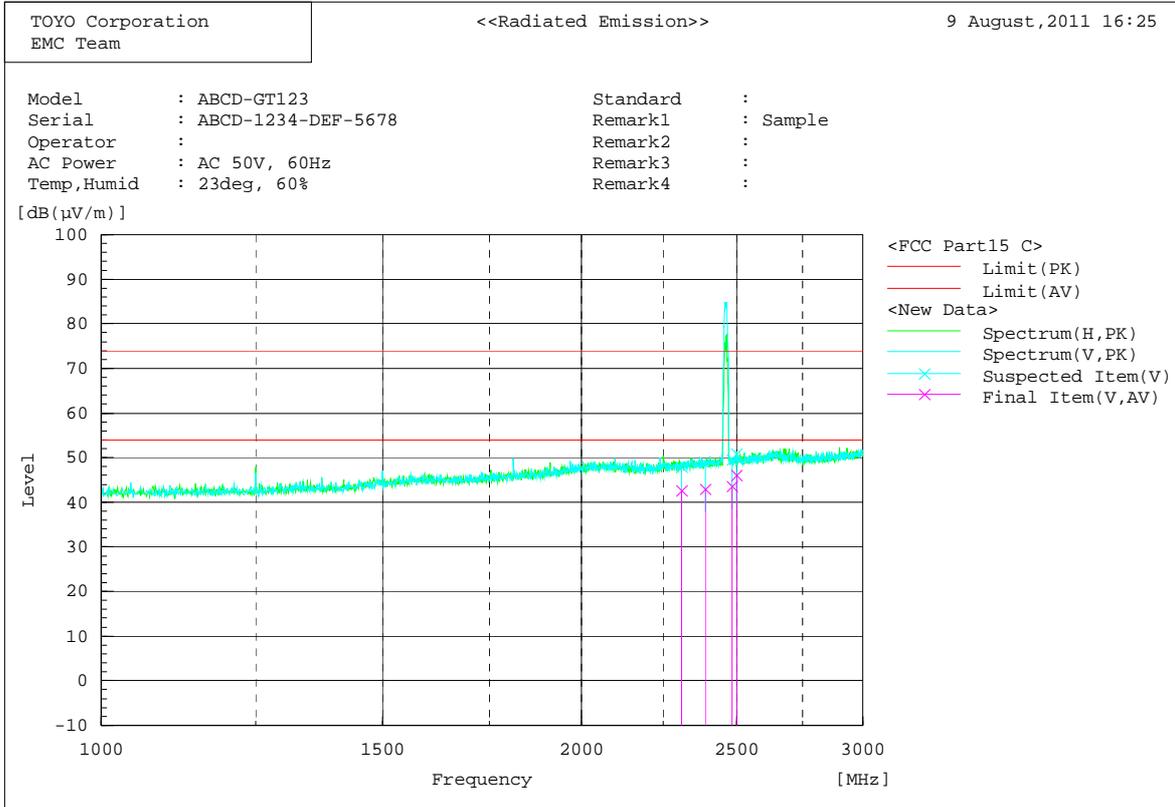
11B_Ch1_PK



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 1249.744 | H | 46.8 | 8.5 | 55.3 | 74.0 | 18.7 | 100.0 | 272.0 | |
| 2 | 2310.131 | V | 41.8 | 14.6 | 56.4 | 74.0 | 17.6 | 285.0 | 114.0 | |
| 3 | 2310.474 | H | 41.6 | 14.6 | 56.2 | 74.0 | 17.8 | 138.0 | 203.0 | |
| 4 | 2390.130 | V | 44.7 | 14.9 | 59.6 | 74.0 | 14.4 | 100.0 | 320.0 | |
| 5 | 2484.295 | V | 41.4 | 15.8 | 57.2 | 74.0 | 16.8 | 219.0 | 200.0 | |
| 6 | 2499.918 | V | 42.1 | 15.9 | 58.0 | 74.0 | 16.0 | 211.0 | 329.0 | |

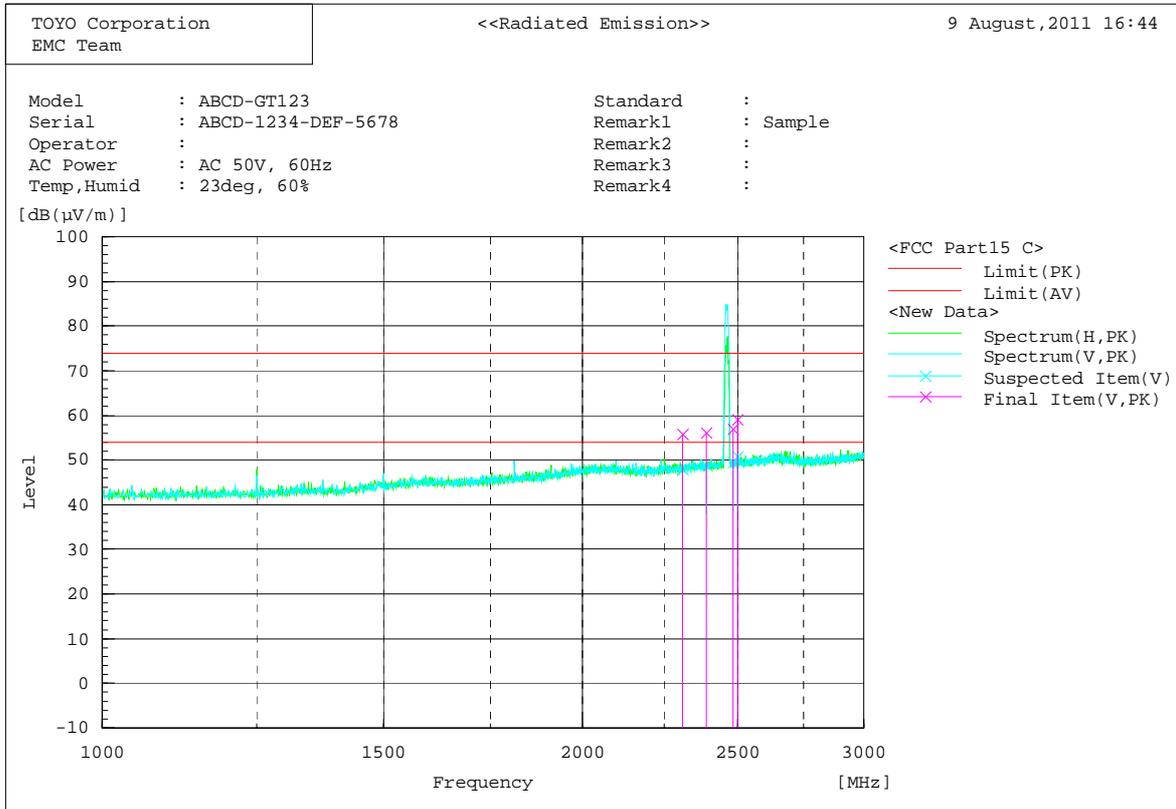
11B_Ch11_AV



Final Result

| No. | Frequency [MHz] | (P) | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result AV [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin AV [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 2309.967 | V | 28.1 | 14.6 | 42.7 | 54.0 | 11.3 | 237.0 | 10.0 | |
| 2 | 2390.244 | V | 28.1 | 14.9 | 43.0 | 54.0 | 11.0 | 204.0 | 218.0 | |
| 3 | 2483.480 | V | 27.7 | 15.8 | 43.5 | 54.0 | 10.5 | 240.0 | 10.0 | |
| 4 | 2500.246 | V | 30.2 | 15.9 | 46.1 | 54.0 | 7.9 | 134.0 | 327.0 | |

11B_Ch11_PK

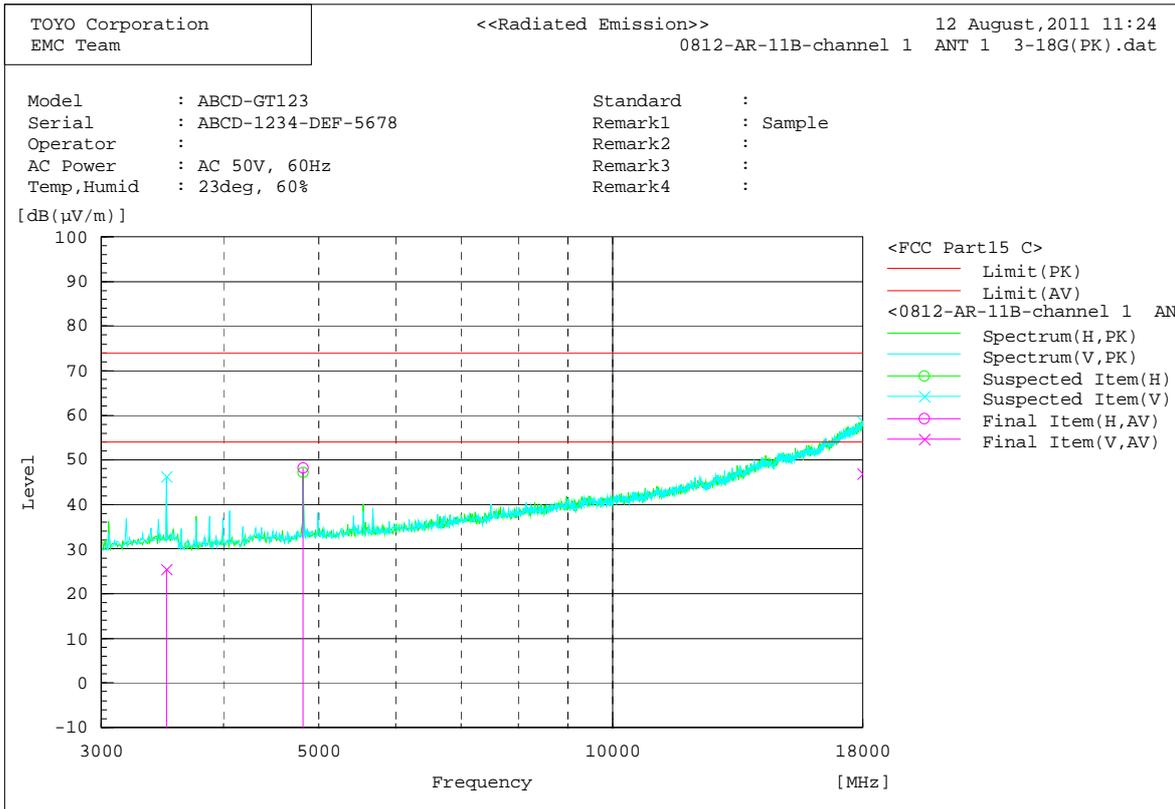


Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 2310.592 | V | 41.2 | 14.6 | 55.8 | 74.0 | 18.2 | 375.0 | 349.0 | |
| 2 | 2390.951 | V | 41.3 | 14.9 | 56.2 | 74.0 | 17.8 | 389.0 | 154.0 | |
| 3 | 2483.620 | V | 41.1 | 15.8 | 56.9 | 74.0 | 17.1 | 200.0 | 317.0 | |
| 4 | 2500.169 | V | 43.1 | 15.9 | 59.0 | 74.0 | 15.0 | 100.0 | 328.0 | |

(Part 3) Test Range of "3 GHz to 18 GHz"

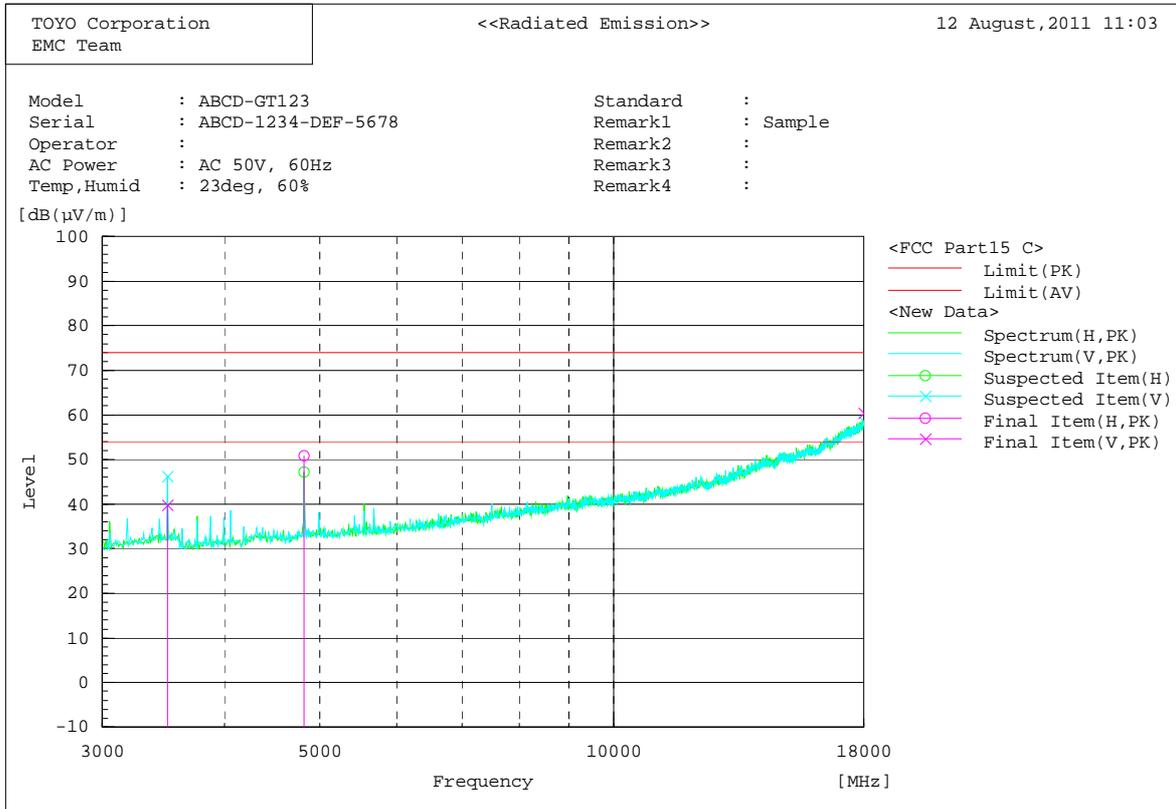
11B_Ch1_AV



Final Result

| No. | Frequency [MHz] | (P) | S.C | Reading AV [dB(µV)] | c.f [dB(1/m)] | Result AV [dB(µV/m)] | Limit AV [dB(µV/m)] | Margin AV [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 3497.982 | V | S | 26.7 | -1.2 | 25.5 | 54.0 | 28.5 | 261.0 | 349.0 | |
| 2 | 4823.928 | H | S | 45.4 | 2.9 | 48.3 | 54.0 | 5.7 | 100.0 | 44.0 | |
| 3 | 17999.700 | V | S | 17.0 | 29.8 | 46.8 | 54.0 | 7.2 | 259.0 | 256.0 | |

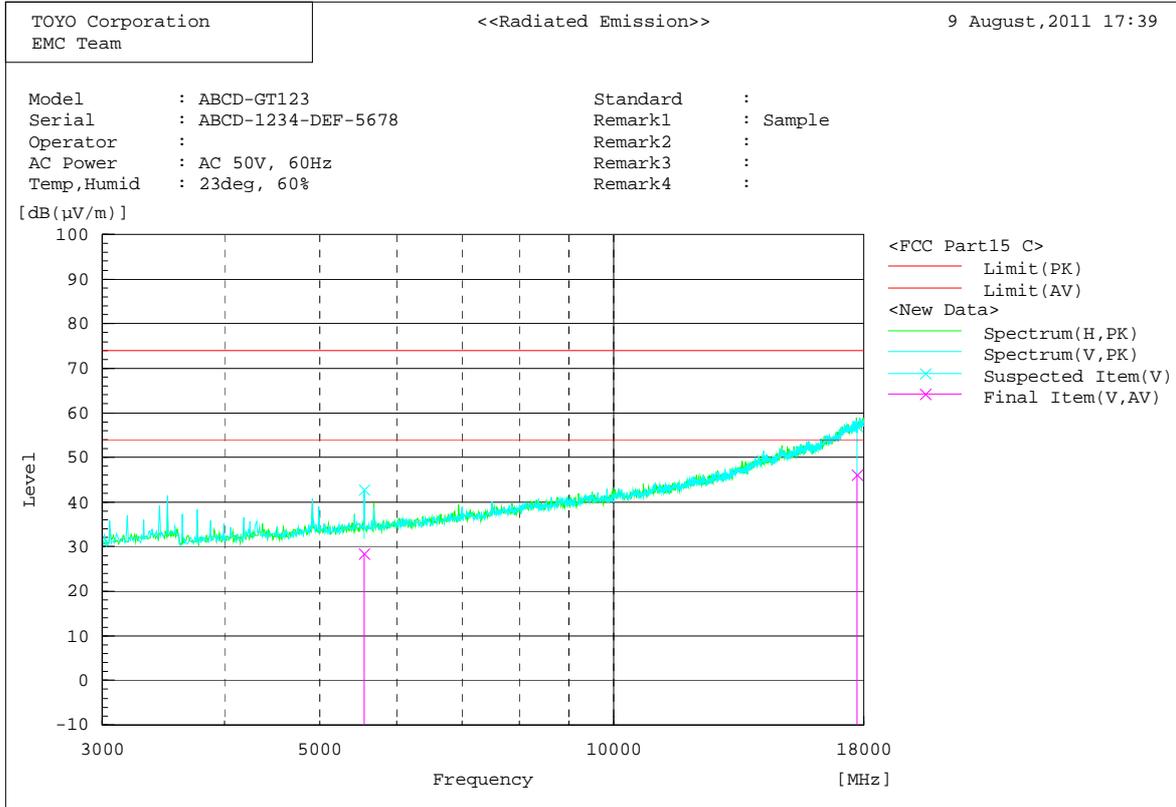
11B_Ch1_PK



Final Result

| No. | Frequency [MHz] | (P) | S.C | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 3497.738 | V | S | 41.0 | -1.2 | 39.8 | 74.0 | 34.2 | 173.0 | 353.0 | |
| 2 | 4824.107 | H | S | 47.9 | 2.9 | 50.8 | 74.0 | 23.2 | 100.0 | 358.0 | |
| 3 | 17999.190 | V | S | 30.7 | 29.8 | 60.5 | 74.0 | 13.5 | 101.0 | 35.0 | |

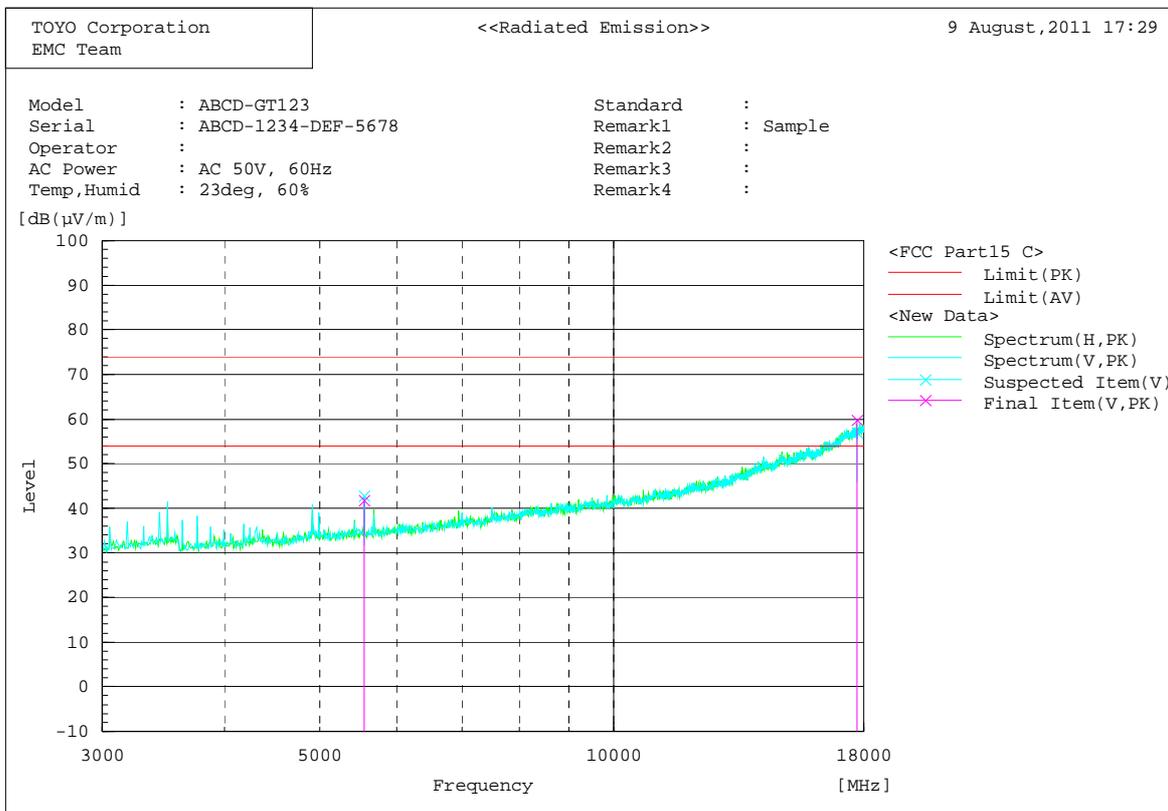
11B_Ch11_AV



Final Result

| No. | Frequency [MHz] | (P) | Reading AV [dB(μV)] | c.f [dB(1/m)] | Result AV [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin AV [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 5558.095 | V | 24.1 | 4.3 | 28.4 | 54.0 | 25.6 | 189.0 | 31.0 | |
| 2 | 17723.830 | V | 17.3 | 28.7 | 46.0 | 54.0 | 8.0 | 140.0 | 0.0 | |

11B_Ch11_PK



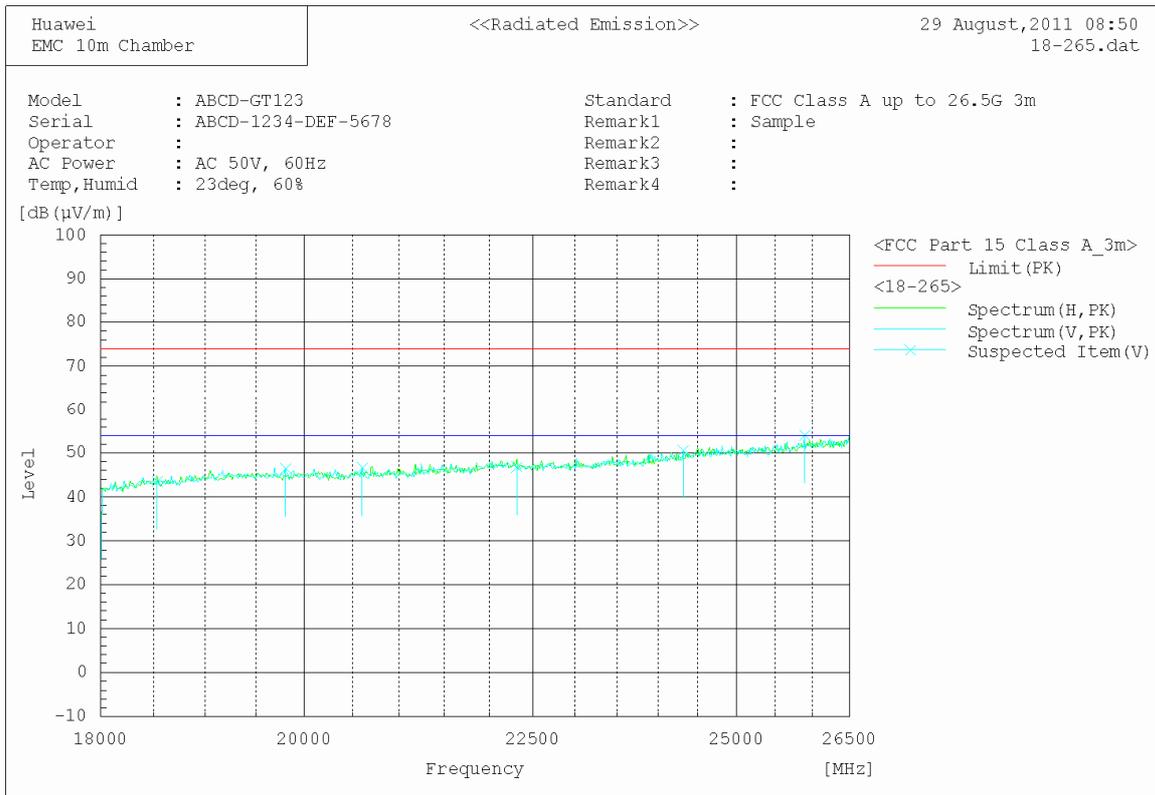
Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(μV)] | c.f [dB(1/m)] | Result PK [dB(μV/m)] | Limit PK [dB(μV/m)] | Margin PK [dB] | Height [cm] | Angle [°] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-----------|--------|
| 1 | 5557.922 | V | 37.5 | 4.3 | 41.8 | 74.0 | 32.2 | 144.0 | 356.0 | |
| 2 | 17722.760 | V | 31.0 | 28.7 | 59.7 | 74.0 | 14.3 | 137.0 | 317.0 | |

(Part 4) Test Range of "18 GHz to 26.5 GHz"

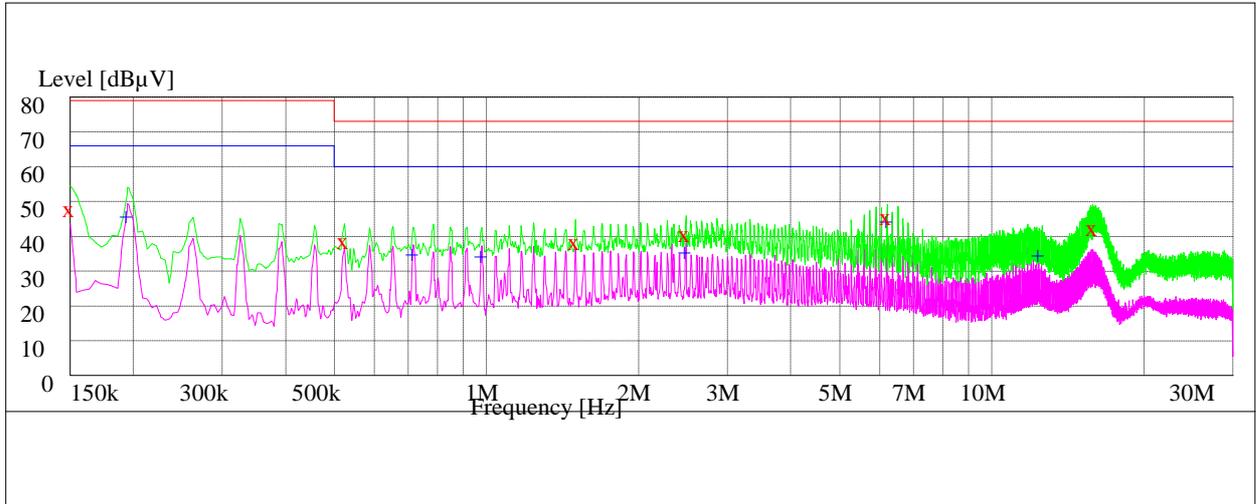
NOTE: There are no distinct spurious emissions in this range, though the higher frequencies have higher noise levels.

11B_Ch1



| Frequency [MHz] | Reading [dB(uV)] | c.f [dB(l/m)] | Result PK [dB(uV/m)] | Limit PK [dB(uV/m)] | Margin PK [dB] | Limit AV [dB(uV/m)] | Margin AV [dB] |
|-----------------|------------------|---------------|----------------------|---------------------|----------------|---------------------|----------------|
| 18531.25 | 22.5 | 21.1 | 43.6 | 74 | 30.4 | 54 | 10.4 |
| 19798.08 | 23.8 | 22.7 | 46.5 | 74 | 27.5 | 54 | 7.5 |
| 20601.76 | 23.8 | 23 | 46.8 | 74 | 27.2 | 54 | 7.2 |
| 22318.11 | 22.3 | 24.7 | 47 | 74 | 27.0 | 54 | 7 |
| 24320.51 | 24.1 | 26.6 | 50.7 | 74 | 23.3 | 54 | 3.3 |
| 25887.02 | 25.8 | 28.3 | 53.9 | 74 | 20.1 | 54 | 0.1 |

Test Results of Conducted Emissions



MEASUREMENT RESULT: QP Detector

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.150000 | 50.10 | 9.9 | 79 | 28.9 | N | GND |
| 0.523500 | 41.00 | 9.9 | 73 | 32.0 | N | GND |
| 1.500000 | 40.60 | 9.9 | 73 | 32.4 | N | GND |
| 2.481000 | 42.90 | 10.1 | 73 | 30.1 | N | GND |
| 6.207000 | 47.80 | 10.3 | 73 | 25.2 | N | GND |
| 15.895500 | 44.70 | 10.5 | 73 | 28.3 | N | GND |

MEASUREMENT RESULT: AV Detector

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.195000 | 48.40 | 9.9 | 66 | 17.6 | N | GND |
| 0.717000 | 37.40 | 9.9 | 60 | 22.6 | N | GND |
| 0.978000 | 36.90 | 9.8 | 60 | 23.1 | N | GND |
| 2.481000 | 38.20 | 10.1 | 60 | 21.8 | N | GND |
| 6.207000 | 46.80 | 10.3 | 60 | 13.2 | N | GND |
| 12.412500 | 37.20 | 10.4 | 60 | 22.8 | N | GND |