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Report Template Version: V05
Report Template Revision Date: 2021-11-03

TEST REPORT

Report No.: CQASZ20220200198E-04

Applicant: Avantronics Limited

Address of Applicant: The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Avantree Roadtrip

Model No.:

BTCK-12, BTCK-12-BLK, BTCK-12-BLU, BTCK-12-TTN, BTCK-12-GRY,

BTCK-12P, BTCK-12S, BTCK-12B

Test mode No.: BTCK-12

FCC ID: WJ5-BTCK-12

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2022-2-16

Date of Test: 2022-2-16 to 2022-03-1

Date of Issue: 2022-3-11
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Rock Huang)

Approved By: (Jack ai)

TEST ING TECHNOLOGY

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LEE

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1 Version

Revision History of Report

| Report No. | Version | Description | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20220200198E-04 | Rev.01 | Initial report | 2022-3-11 |



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2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|--|---|------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203 | ANSI C63.10-2013 | PASS |
| Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10-2013 | PASS |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C Section 15.239(a) | ANSI C63.10-2013 | PASS |
| Field Strength of the Fundamental Signal | 47 CFR Part 15, Subpart C Section 15.239(b) | ANSI C63.10-2013 | PASS |
| Radiated Transmitter Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10-2013 | PASS |



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4 General Information

4.1 Client Information

| Applicant: | Avantronics Limited |
|--------------------------|---|
| Address of Applicant: | The 4th Floor,Yuepeng Building,No.1019 Jiabin Rd,Luohu District, Shenzhen |
| Manufacturer: | Avantronics Limited |
| Address of Manufacturer: | The 4th Floor, Yuepeng Building, No. 1019 Jiabin Rd, Luohu District, Shenzhen |
| Factory: | Avantronics Limited |
| Address of Factory: | The 4th Floor,Yuepeng Building,No.1019 Jiabin Rd,Luohu District, Shenzhen |

4.2 General Description of EUT

| Product Name: | Avantree Roadtrip |
|-----------------------|---|
| All Model No.: | BTCK-12, BTCK-12-BLK, BTCK-12-BLU, BTCK-12-TTN, BTCK-12-GRY, BTCK-12P, BTCK-12S, BTCK-12B |
| Test Model No. : | BTCK-12 |
| Trade Mark: | Avantree |
| Software Version: | CK1220211109V0 |
| Hardware Version: | PCB_CK12V5.3 |
| Operation Frequency: | 88.1MHz-107.9 MHz |
| Number of Channels: | 100CH |
| Channel Separation: | 200KHz |
| Modulation Type: | FM |
| Product Type: | ☐ Mobile ☐ Portable ☐ Fix Location |
| Test Software of EUT: | Adjustment knob |
| Antenna Type: | PCB antenna |
| Antenna Gain: | 0 dBi |
| Power Supply: | Li-ion battery: DC 3.7V 1120mAh, Charge by DC 5V for adapter |



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| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 88.1MHz | 26 | 93.1MHz | 51 | 98.1MHz | 76 | 103.1MHz |
| 2 | 88.3MHz | 27 | 93.3MHz | 52 | 98.3MHz | 77 | 103.3MHz |
| 3 | 88.5MHz | 28 | 93.5MHz | 53 | 98.5MHz | 78 | 103.5MHz |
| 4 | 88.7MHz | 29 | 93.7MHz | 54 | 98.7MHz | 79 | 103.7MHz |
| 5 | 88.9MHz | 30 | 93.9MHz | 55 | 98.9MHz | 80 | 103.9MHz |
| 6 | 89.1MHz | 31 | 94.1MHz | 56 | 99.1MHz | 81 | 104.1MHz |
| 7 | 89.3MHz | 32 | 94.3MHz | 57 | 99.3MHz | 82 | 104.3MHz |
| 8 | 89.5MHz | 33 | 94.5MHz | 58 | 99.5MHz | 83 | 104.5MHz |
| 9 | 89.7MHz | 34 | 94.7MHz | 59 | 99.7MHz | 84 | 104.7MHz |
| 10 | 89.9MHz | 35 | 94.9MHz | 60 | 99.9MHz | 85 | 104.9MHz |
| 11 | 90.1MHz | 36 | 95.1MHz | 64 | 100.1MHz | 86 | 105.1MHz |
| 12 | 90.3MHz | 37 | 95.3MHz | 62 | 100.3MHz | 87 | 105.3MHz |
| 13 | 90.5MHz | 38 | 95.5MHz | 63 | 100.5MHz | 88 | 105.5MHz |
| 14 | 90.7MHz | 39 | 95.7MHz | 64 | 100.7MHz | 89 | 105.7MHz |
| 15 | 90.9MHz | 40 | 95.9MHz | 65 | 100.9MHz | 90 | 105.9MHz |
| | | | | | | | |
| 25 | 92.9MHz | 50 | 97.9MHz | 75 | 102.9MHz | 100 | 107.9MHz |

Note:

In RSS-Gen, 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 | 88.1MHz |
| The Middle channel | 98.1MHz |
| The Highest channel | 107.9MHz |

4.3 Test Environment and Mode

| Test Environment: | | | |
|-----------------------|--|--|--|
| Temperature: | 24.0 °C | | |
| Humidity: | 52 % RH | | |
| Atmospheric Pressure: | 1008 mbar | | |
| Test mode: | | | |
| Transmitter mode | Keep the EUT in transmitting mode with modulation. | | |

Remark: If the audio input signal is audio and the transmitter is frequency modulated, compliance with the RSS210 B 9(c) requirements shall be demonstrated by modulating the transmitter with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz, or 50 % of the manufacturer's rated deviation, whichever is less.



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4.4 Description of Support Units

The EUT has been tested independently and or The EUT has been tested with associated equipment below.

1) Support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| 1 | 1 | / | 1 | / |

2) Cable

| Cable No. | Description | Manufacturer | Cable Type/Length | Supplied by |
|-----------|-------------|--------------|-------------------|-------------|
| 1 | , | 1 | , | , |

4.5 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

No tests were sub-contracted:

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.



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4.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.9 x 10 ⁻⁸ |
| 2 | DE newer conducted | 0.31dB (30MHz-1GHz) |
| 2 | RF power, conducted | 0.57dB (1GHz-18GHz) |
| 3 | Radiated Spurious emission test | 4.5dB (30MHz-1GHz) |
| 3 | Radiated Spurious emission test | 4.8dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.6dB (9kHz to 150kHz) |
| 4 | Conduction emission | 3.2dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 2.8% |
| 7 | DC power voltages | 0.025% |



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5 Equipment List

| | | | Instrument | Calibration | Calibration |
|-------------------------------|--------------|----------------------------|------------|-------------|-------------|
| Test Equipment | Manufacturer | Model No. | No. | Date | Due Date |
| EMI Test Receiver | R&S | ESR7 | CQA-005 | 2021/9/10 | 2022/9/9 |
| Spectrum analyzer | R&S | FSU26 | CQA-038 | 2021/9/10 | 2022/9/9 |
| Preamplifier | MITEQ | AFS4-00010300-18-10P- 4 | CQA-035 | 2021/9/10 | 2022/9/9 |
| | | AMF-6D-02001800-29- | | | |
| Preamplifier | MITEQ | 20P | CQA-036 | 2021/9/10 | 2022/9/9 |
| Loop antenna | Schwarzbeck | FMZB1516 | CQA-087 | 2021/9/16 | 2024/9/15 |
| Bilog Antenna | R&S | HL562 | CQA-011 | 2021/9/16 | 2024/9/15 |
| Horn Antenna | R&S | HF906 | CQA-012 | 2021/9/16 | 2024/9/15 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | CQA-088 | 2021/9/16 | 2024/9/15 |
| Coaxial Cable (Above 1GHz) | CQA | N/A | C019 | 2021/9/10 | 2022/9/9 |
| Coaxial Cable (Below 1GHz) | CQA | N/A | C020 | 2021/9/10 | 2022/9/9 |
| Antenna Connector | CQA | RFC-01 | CQA-080 | 2021/9/10 | 2022/9/9 |
| RF cable(9KHz~40GHz) | CQA | RF-01 | CQA-079 | 2021/9/10 | 2022/9/9 |
| Power divider | MIDWEST | PWD-2533-02-SMA-79 | CQA-067 | 2021/9/10 | 2022/9/9 |
| EMI Test Receiver | R&S | ESPI3 | CQA-013 | 2021/9/10 | 2022/9/9 |
| LISN | R&S | ENV216 | CQA-003 | 2021/9/10 | 2022/9/9 |
| Coaxial cable | CQA | N/A | CQA-C009 | 2021/9/10 | 2022/9/9 |

Note:

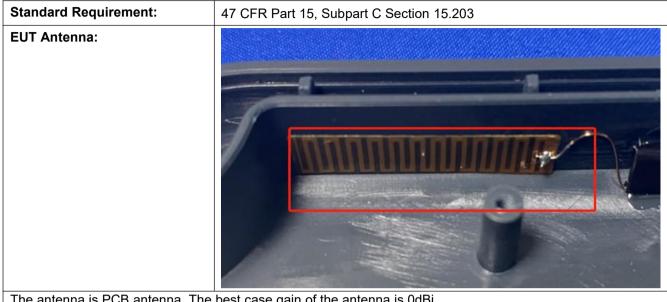
The temporary antenna connector is soldered on the Integral board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



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Test results and Measurement Data

6.1 Antenna Requirement





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6.2 Conducted Emissions

Test Requirement: 47 CFR Part 15, Subpart C Section 15.207

Test Method: ANSI C63.10
Test Frequency Range: 150KHz to 30MHz

Limit:

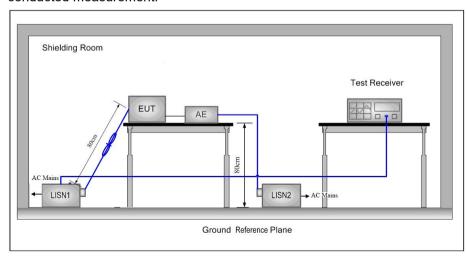
| Frequency range (MHz) | Limit (dBµV) | | |
|-----------------------|--------------|-----------|--|
| | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

^{*} Decreases with the logarithm of the frequency.

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω /50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment were at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Test Setup:

Test Procedure:



Instruments Used:

Refer to section 6 for details

Test Mode:

Transmitter mode

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Test Results: Pass

Measurement Data

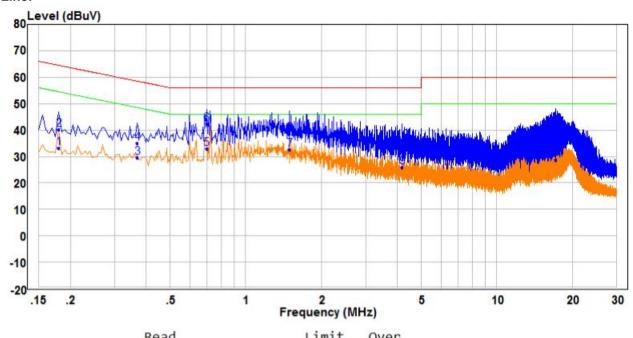
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Line:

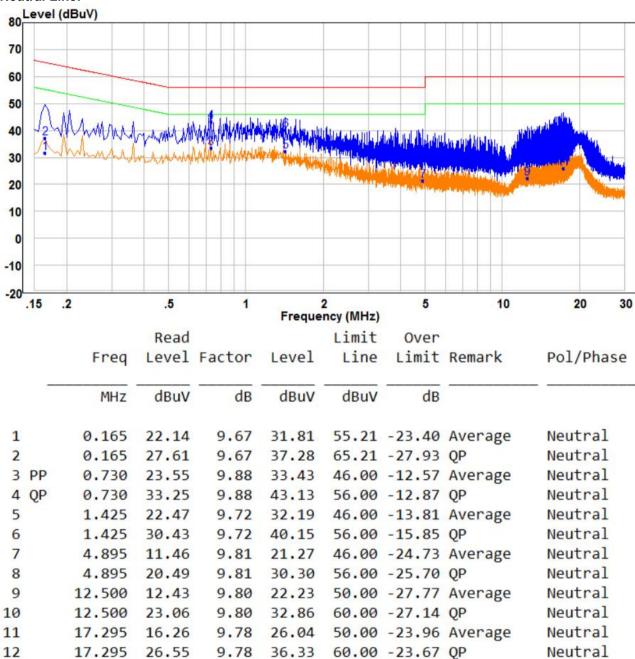


| | | | Read | | | Limit | Over | | |
|----|----|--------|-------|--------|-------|-------|--------|---------|-----------|
| | | Freq | Level | Factor | Level | Line | Limit | Remark | Pol/Phase |
| | - | MHZ | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.180 | 23.54 | 9.64 | 33.18 | 54.49 | -21.31 | Average | Line |
| 2 | | 0.180 | 30.52 | 9.64 | 40.16 | 64.49 | -24.33 | QP | Line |
| 3 | | 0.370 | 19.94 | 9.58 | 29.52 | 48.50 | -18.98 | Average | Line |
| 4 | | 0.370 | 25.59 | 9.58 | 35.17 | 58.50 | -23.33 | QP | Line |
| 5 | PP | 0.700 | 22.96 | 9.90 | 32.86 | 46.00 | -13.14 | Average | Line |
| 6 | QP | 0.700 | 32.29 | 9.90 | 42.19 | 56.00 | -13.81 | QP | Line |
| 7 | | 1.495 | 21.71 | 10.82 | 32.53 | 46.00 | -13.47 | Average | Line |
| 8 | | 1.495 | 27.73 | 10.82 | 38.55 | 56.00 | -17.45 | QP | Line |
| 9 | | 4.200 | 15.80 | 10.09 | 25.89 | 46.00 | -20.11 | Average | Line |
| 10 | | 4.200 | 25.74 | 10.09 | 35.83 | 56.00 | -20.17 | QP | Line |
| 11 | | 17.260 | 18.71 | 9.78 | 28.49 | 50.00 | -21.51 | Average | Line |
| 12 | | 17.260 | 31.08 | 9.78 | 40.86 | 60.00 | -19.14 | QP | Line |



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Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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6.3 20dB Bandwidth

Test Requirement: 47 CFR Part 15, Subpart C Section 15.239(a) **Test Method:** ANSI C63.10:2013 instead of RSS-GEN 6.7

Spectrum Analyzer

E.U.T

Non-Conducted Table

Test Setup:

Ground Reference Plane

Instruments Used: Refer to section 6 for details

Limit: The occupied bandwidth shall not exceed 200 kHz.

Test Mode: Transmitting mode

Test Results: Pass

Measurement Data

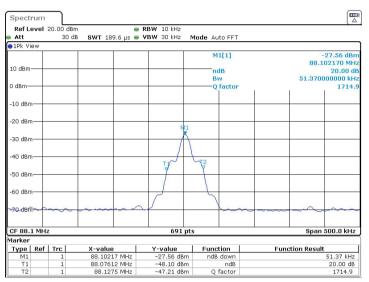
| Test channel | 20dB Bandwidth(KHz) | Limit(KHz) |
|--------------|---------------------|------------|
| Lowest | 51.4 | ≤200 |
| Middle | 50.7 | ≤200 |
| Highest | 50.7 | ≤200 |



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Test plot as follows:

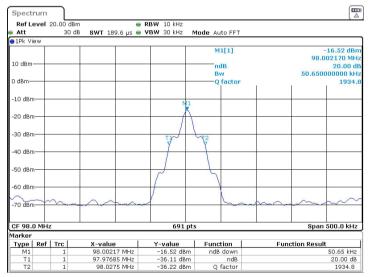
Test channel: Lowest



Date: 24.MAR.2022 10:43:11

20dB

Test channel: Middle



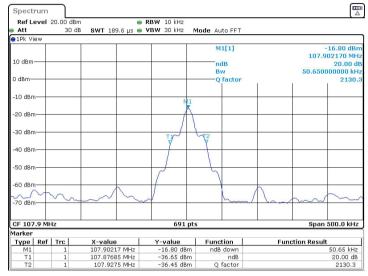
Date: 24.MAR.2022 10:44:01

20dB



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| Test channel: | Highest |
|---------------|---------|
| | |



Date: 24.MAR.2022 10:39:26

20dB



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6.4 Radiated Transmitter Spurious Emission

Test Requirement: 47 CFR Part 15, Subpart C Section 15.205/15.209

Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

| Frequency | Detector | RBW | VBW | Remark |
|-------------------|------------|--------|--------|------------|
| 0.009MHz-0.015MHz | Quasi-peak | 200Hz | 1KHz | Quasi-peak |
| 0.015MHz-30MHz | Quasi-peak | 10kHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120kHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

Test Setup:

Receiver Setup:

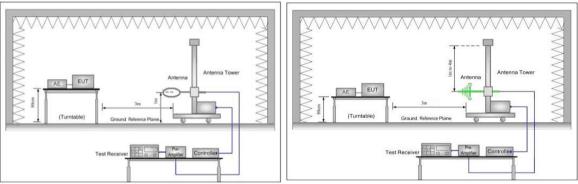


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

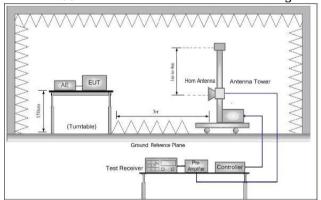


Figure 3. Above 1GHz



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Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,middle channel, the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

i. Repeat above procedures until all frequencies measured was complete.

| Frequency | Field strength (microvolt/meter) | Limit (dBµV/m) | Remark | Measurement distance (m) |
|-------------------|----------------------------------|--------------------|------------|--------------------------|
| 0.009MHz-0.490MHz | 2400/F(kHz) | - | Quasi-peak | 300 |
| 0.490MHz-1.705MHz | 24000/F(kHz) | - | Quasi-peak | 30 |
| 1.705MHz-30MHz | 30 | - | Quasi-peak | 30 |
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Ab 4011- | 500 | 54.0 | Average | 3 |
| Above 1GHz | 300 | 74.0 | Peak | 3 |

Limit:

Limit:

(Field strength of the fundamental signal)

| Frequency | Limit (dBµV/m @3m) | Remark |
|------------------|--------------------|---------------|
| 000411- 4000411- | 48.0 | Average Value |
| 88MHz-108MHz | 68.0 | Peak Value |

Test Mode: Transmitting mode

Instruments Used: Refer to section 6 for details

Test Results: Pass



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Field Strength of the Fundamental Signal

Peak value:

| Test frequency | Level | Limit (dBµV/m) | Over Limit | Result | Antenna Polaxis |
|----------------|-------|-------------------|------------|--------|--------------------|
| 88.1 | 54.63 | 68.0 | -13.37 | Pass | Н |
| 88.1 | 61.37 | 68.0 | -6.63 | Pass | V |
| 98.1 | 57.04 | 68.0 | -10.96 | Pass | Н |
| 98.1 | 54.38 | 68.0 | -13.62 | Pass | V |
| 107.9 | 57.39 | 68.0 | -10.61 | Pass | Н |
| 107.9 | 55.09 | 68.0 | -12.91 | Pass | V |

Average value:

| Test | Level | Limit | Over Limit | Result | Antenna |
|-----------|----------|----------|------------|--------|---------|
| frequency | (dBµV/m) | (dBµV/m) | (dB) | Nesuit | Polaxis |
| 88.1 | 43.63 | 48.0 | -4.37 | Pass | Н |
| 88.1 | 45.37 | 48.0 | -2.63 | Pass | V |
| 98.1 | 45.04 | 48.0 | -2.96 | Pass | Н |
| 98.1 | 44.38 | 48.0 | -3.62 | Pass | V |
| 107.9 | 44.39 | 48.0 | -3.61 | Pass | Н |
| 107.9 | 44.09 | 48.0 | -3.91 | Pass | V |



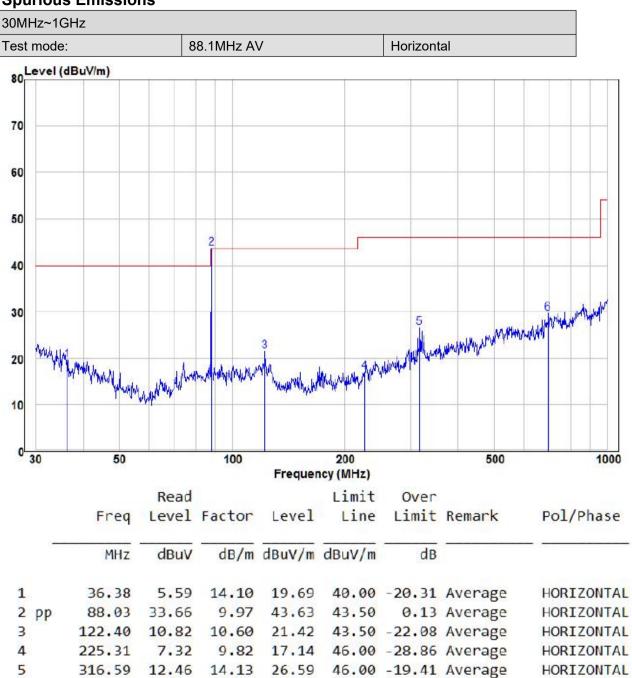
6

Shenzhen Huaxia Testing Technology Co., Ltd.

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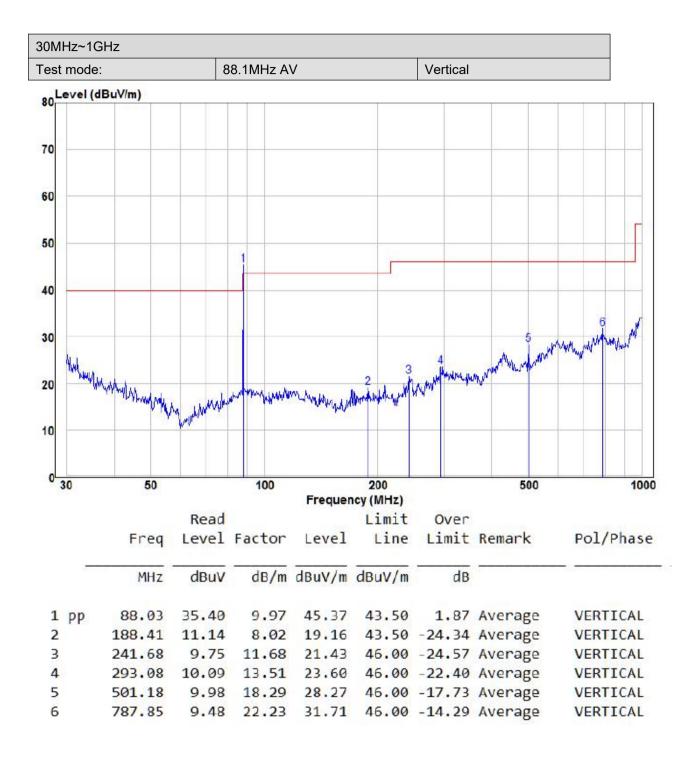
HORIZONTAL

Spurious Emissions



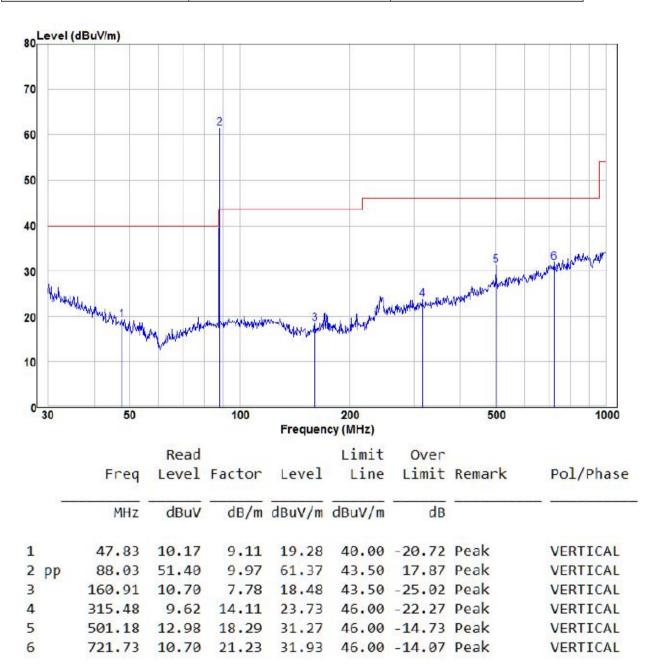
696.86 8.71 21.04 29.75 46.00 -16.25 Average



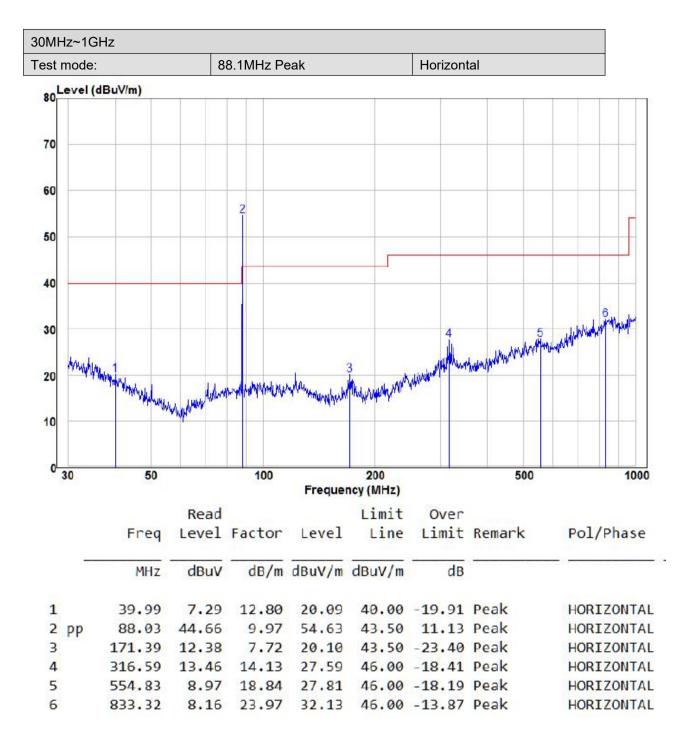




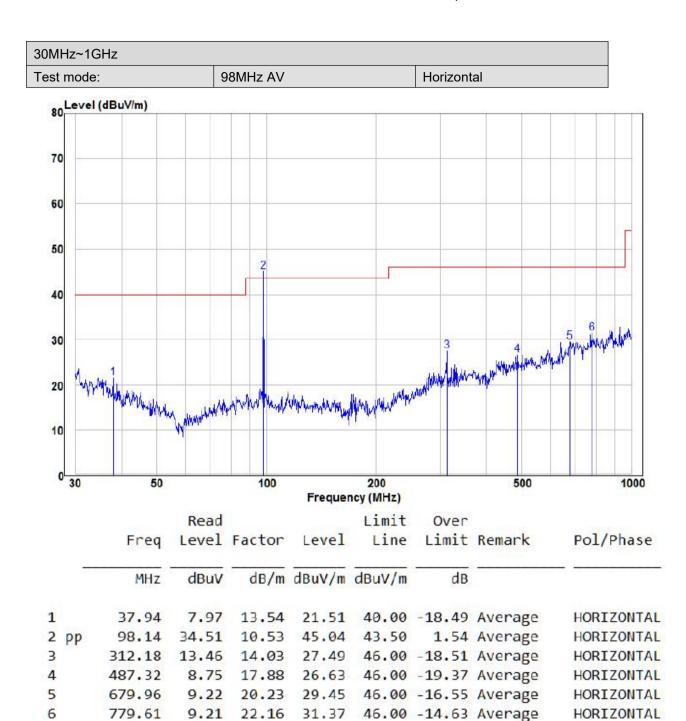
| 30MHz~1GHz | | |
|------------|--------------|----------|
| Test mode: | 88.1MHz Peak | Vertical |



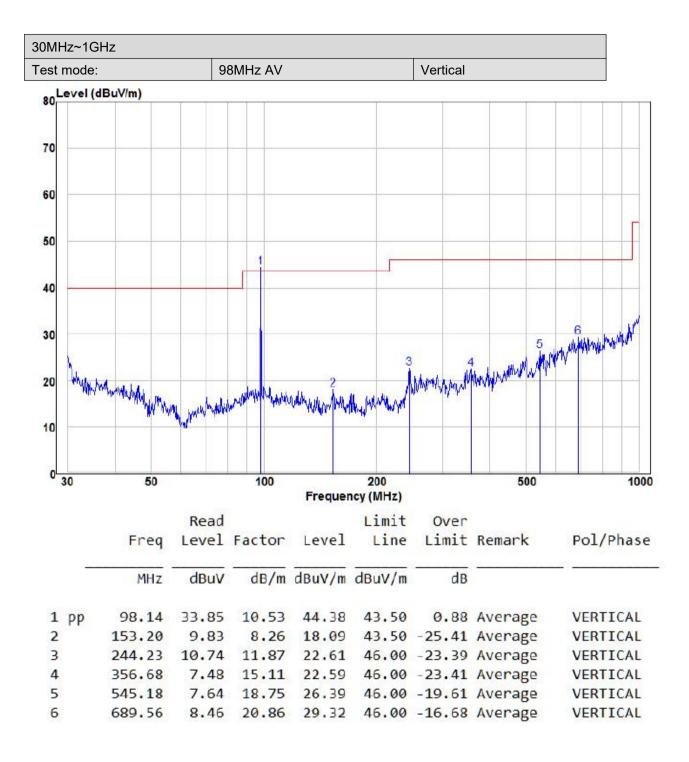




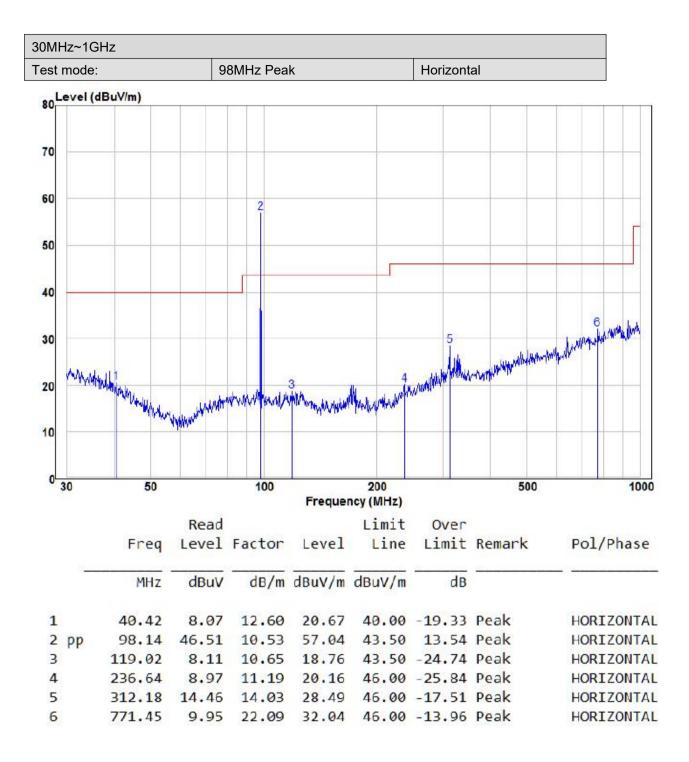




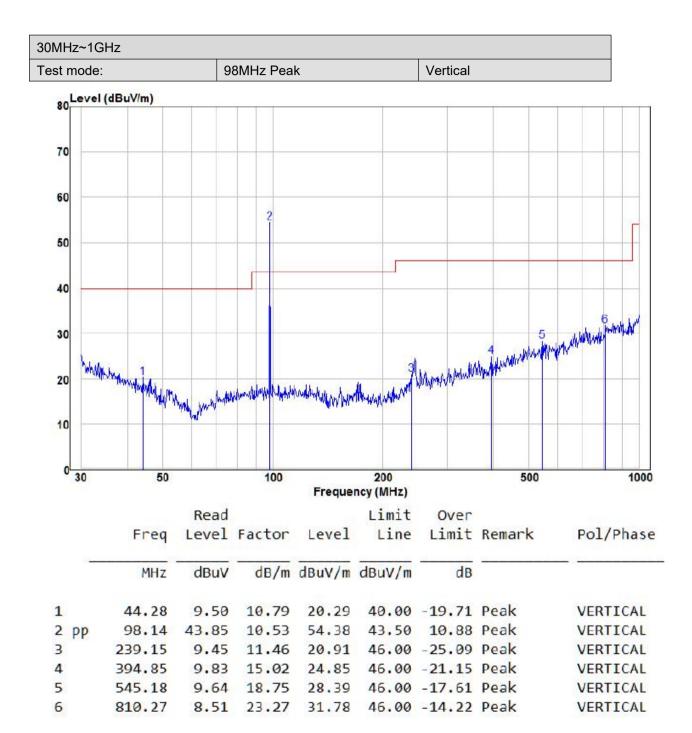




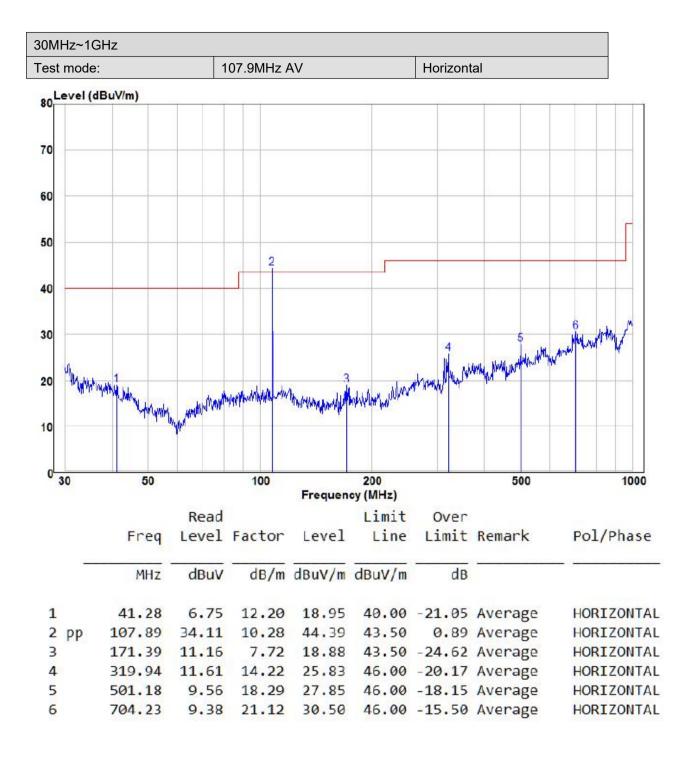




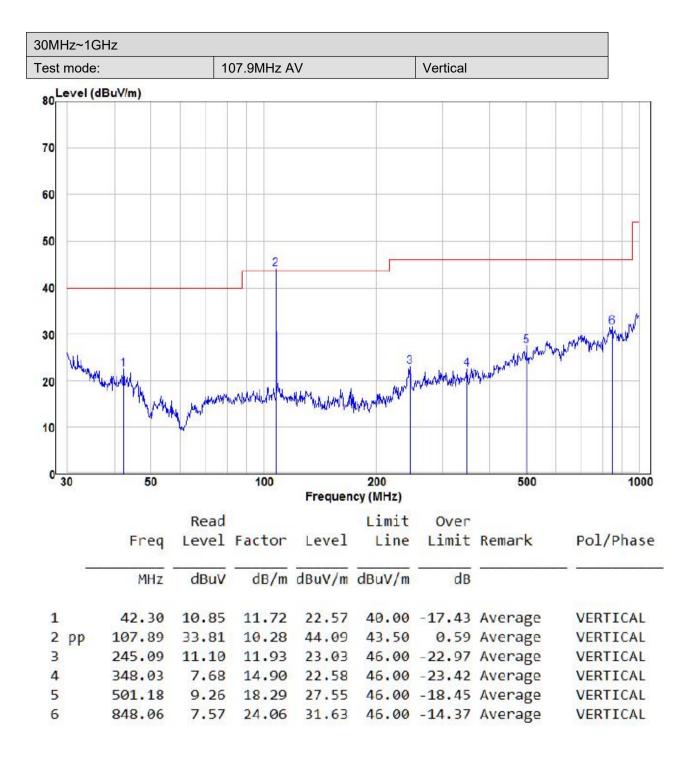




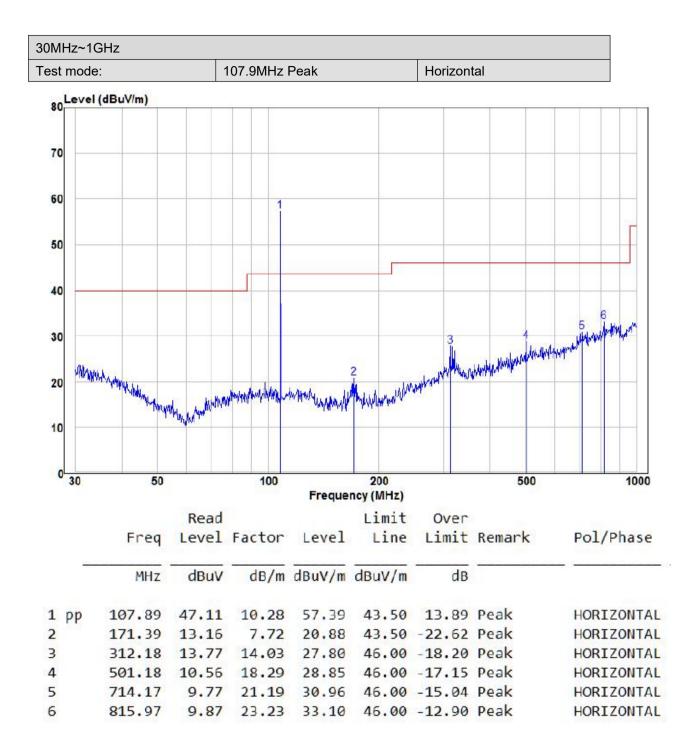






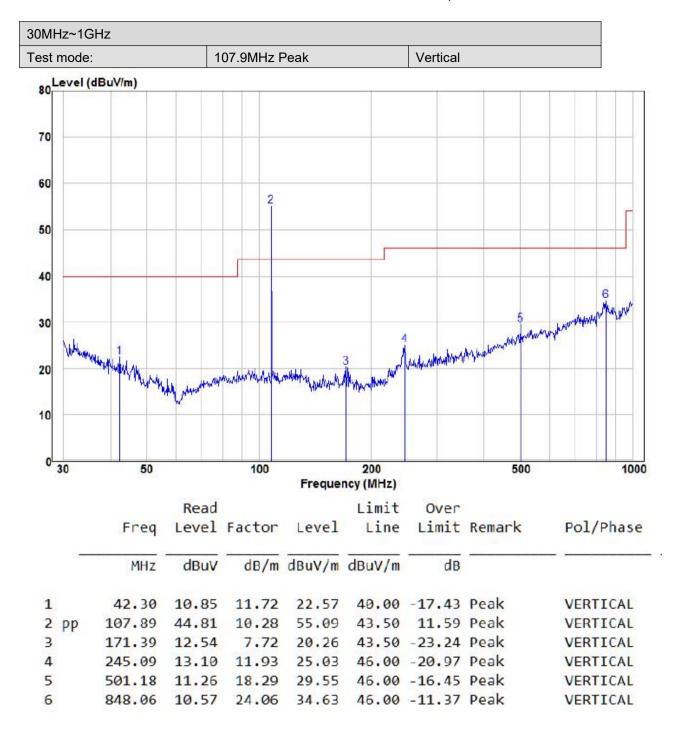








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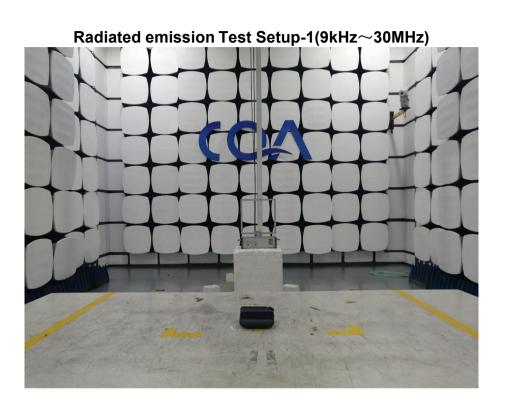
Remark:

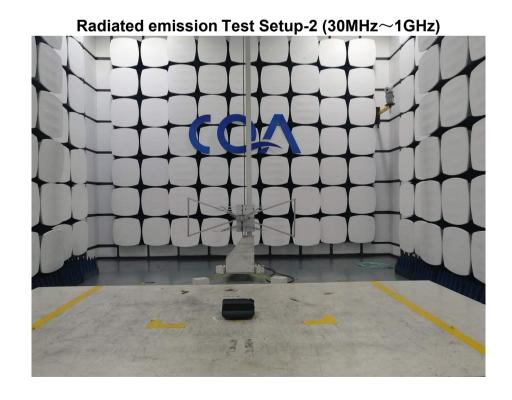
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading Correct Factor
 - Correct Factor = Preamplifier Factor Antenna Factor Cable Factor
- 2) Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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APENDIX 1 PHOTOGRAPHS OF TEST SETUP

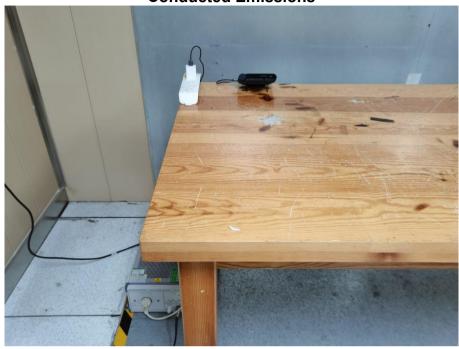






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Conducted Emissions





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PHOTOGRAPHS OF EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20220200198E-01.

*** END OF REPORT ***