

TEST REPORT

| | |
|--|--------------------------------|
| Test Report No.: CTA24071501706 | Jul. 31, 2024 Date of issue |
|--|--------------------------------|

Equipment under Test : Quest Handheld

Model /Type : Quest-Handheld

List Model : N/A

Applicant : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Manufacturer : **Touch Dynamic**

Address : Touch Dynamic, 121 Corporate Blvd, South Plainfield, New Jersey, 07080

| | |
|---------------------|-------------|
| Test Result: | PASS |
|---------------------|-------------|

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.225](#): RADIO FREQUENCY DEVICES.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

2. SUMMARY

2.1. General Remarks

| | | |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Jul.08, 2024 |
| Testing commenced on | : | Jul.08, 2024 |
| Testing concluded on | : | Jul. 30, 2024 |

2.2. Product Description

| | |
|--|--|
| Product Name: | Quest Handheld |
| Trade Mark: | TOUCH DYNAMIC |
| Model/Type reference: | Quest-Handheld |
| List Model: | N/A |
| Model Declaration | N/A |
| Power supply: | DC 7.6V by battery Recharged by DC 5.0V |
| Hardware Version | N/A |
| Software Version | N/A |
| Sample ID | CTA240715017-S0001-1#CTA240715017-S0001-2# |
| Bluetooth | |
| Frequency Range | 2402MHz ~ 2480MHz |
| Channel Number | 79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS) |
| Channel Spacing | 1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS) |
| Modulation Type | GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS) |
| 2.4GWLAN | |
| WLAN Operation frequency | IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz |
| WLAN Modulation Type | IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Channel number: | 11 Channel for IEEE 802.11b/g/n (HT20) |
| Channel separation: | 5MHz |
| WIFI (5.2G/5.3G/5.7G/5.8G Band) | |
| Frequency Range | 5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz |
| Channel Number | 4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5775MHz) |
| Modulation Type | IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) |

| | |
|-------------------------------|--|
| | IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | Internal Antenna, 1.90dBi(Max.) for 2.4G Band and 2.87dBi(Max.) for 5G Band |
| 2G | |
| Support Band | GPRS850/GPRS1900/EDGE850/EDGE1900 |
| Release Version | R99 |
| GPRS Class | Class 12 |
| EGPRS Class | Class 12 |
| GPRS/EDGE Multislot Class | GPRS/EDGE: Multi-slot Class 12 |
| Type Of Modulation | GMSK for GPRS; GMSK/8PSK for EGPRS |
| Antenna Description | Internal Antenna -5.35dBi (max.) For GPRS850/EDGE850 0.53dBi (max.) For GPRS1900/EDGE1900 |
| 3G | |
| UMTS Operation Frequency Band | UMTS FDD Band 2(1850 MHz -1910MHz) UMTS FDD Band 5(824 MHz -849MHz) |
| WCDMA Release Version | R7 |
| HSDPA Release Version | Release 5 |
| HSUPA Release Version | Release 6 |
| HSPA+ Release Version | Release 7 |
| Modulation Type | QPSK for UMTS |
| Antenna Description | Internal Antenna 0.53dBi (max.) For WCDMA Band 2 -5.35dBi (max.) For WCDMA Band 5 |
| LTE | |
| LTE Operation Frequency Band | E-UTRA Band 2(1850 MHz -1910MHz) E-UTRA Band 4(1710 MHz -1755MHz) E-UTRA Band 5(824 MHz -849MHz) E-UTRA Band 7(2500 MHz -2570MHz) E-UTRA Band 12(699 MHz -716MHz) E-UTRA Band 14(788 MHz -798MHz) E-UTRA Band 17(704 MHz -716MHz) E-UTRA Band 25(1850 MHz -1915MHz) E-UTRA Band 26(814 MHz -824MHz) E-UTRA Band 26(824 MHz -849MHz) E-UTRA Band 41(2496 MHz -2690MHz) E-UTRA Band 66(1710 MHz -1780MHz) |
| LTE Release Version | R10 |
| Type Of Modulation | QPSK/16QAM |
| Antenna Description | Internal Antenna; 0.53dBi (max.) For LTE Band 2; 1.11dBi (max.) For LTE Band 4; -5.35dBi (max.) For LTE Band 5; 0.69dBi (max.) For LTE Band 7; -5.35dBi (max.) For LTE Band 12; -5.35dBi (max.) For LTE Band 14; -5.35dBi (max.) For LTE Band 17; 0.53dBi (max.) For LTE Band 25; |

| | |
|---------------------------|---|
| | -5.35dBi (max.) For LTE Band 26; -5.35dBi (max.) For LTE Band 41; 1.11dBi (max.) For LTE Band 66; |
| RFID(13.56MHz) (Optional) | |
| Frequency Range | 13.56MHz |
| Channel Number | 1 |
| Modulation Type | ASK |
| Antenna Description | Internal Antenna, 0dBi (Max.) |
| GPS(RX) | Support |
| Quest Handheld | |
| RFID(13.56MHz) (Optional) | |
| Frequency Range | 13.56MHz |
| Channel Number | 1 |
| Modulation Type | ASK |
| Antenna Description | Internal Antenna, 0dBi (Max.) |

2.3. Equipment Under Test

Power supply system utilised

| | | | |
|----------------------|---|---|-----------------------------------|
| Power supply voltage | : | <input type="radio"/> 230V / 50 Hz | <input type="radio"/> 120V / 60Hz |
| | | <input type="radio"/> 12 V DC | <input type="radio"/> 24 V DC |
| | | <input checked="" type="radio"/> Other (specified in blank below) | |

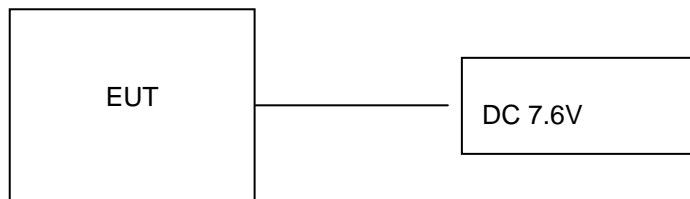
DC 7.6V

2.4. Short description of the Equipment under Test (EUT)

This is a Quest Handheld.

For more details, refer to the user's manual of the EUT.

2.5. Block Diagram of Test Setup



2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AYD5-QSTHNHLD** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. EUT Exercise Software

N/A.

2.8. Special Accessories

| Manufacturer | Description | Model | Serial Number | Certificate |
|---------------------------------------|-----------------------|----------------|---------------|-------------|
| SHENZHEN TIANYIN ELECTRONICS CO.,LTD. | Adapter | TPA-46050200UU | -- | SDOC |
| / | Quest Handheld Cradle | Quest-Handheld | -- | SDOC |

2.9. External I/O Cable

| I/O Port Description | Quantity | Cable |
|----------------------|----------|------------------------|
| DC IN Port | 1 | 1.0M, Unscreened Cable |

2.10. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2. Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|-----------------------|--------------|
| Temperature: | -20-50 ° C |
| Humidity: | 30-60 % |
| Atmospheric pressure: | 950-1050mbar |

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

| Test | Range | Measurement Uncertainty | Notes |
|--|-------------|-------------------------|-------|
| Radiated Emission | 9KHz~30MHz | 3.02 dB | (1) |
| Radiated Emission | 30~1000MHz | 4.06 dB | (1) |
| Radiated Emission | 1~18GHz | 5.14 dB | (1) |
| Radiated Emission | 18-40GHz | 5.38 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 2.14 dB | (1) |
| Output Peak power | 30MHz~18GHz | 0.55 dB | (1) |
| Power spectral density | / | 0.57 dB | (1) |
| Spectrum bandwidth | / | 1.1% | (1) |
| Radiated spurious emission (30MHz-1GHz) | 30~1000MHz | 4.10 dB | (1) |
| Radiated spurious emission (1GHz-18GHz) | 1~18GHz | 4.32 dB | (1) |
| Radiated spurious emission (18GHz-40GHz) | 18-40GHz | 5.54 dB | (1) |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Summary of measurement results

| Applied Standard: FCC Part 15 Subpart C | | | |
|---|----------------------|--|--------|
| Test Items | FCC Rules | Test Sample | Result |
| Line Conducted Emissions | §15.207(a) | CTA240715017-S0001-1# | PASS |
| Field Strength of Fundamental Emissions | §15.225(a)(b)(c) | CTA240715017-S0001-1# | PASS |
| Radiated Emissions | §15.225(d) & §15.209 | CTA240715017-S0001-1# CTA240715017-S0001-2# | PASS |
| 20dB Bandwidth | § 15.215 | CTA240715017-S0001-1# | PASS |
| Frequency Stability | §15.225(e) | CTA240715017-S0001-1# | PASS |
| Antenna Requirement | §15.203 | CTA240715017-S0001-1# | PASS |

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (SAR Report).
5. We tested all test mode and recorded worst case in report

3.6. Equipments Used during the Test

| Test Equipment | Manufacturer | Model No. | Equipment No. | Calibration Date | Calibration Due Date |
|--------------------------------|---|-------------|---------------|------------------|----------------------|
| LISN | R&S | ENV216 | CTA-308 | 2023/08/02 | 2024/08/01 |
| LISN | R&S | ENV216 | CTA-314 | 2023/08/02 | 2024/08/01 |
| EMI Test Receiver | R&S | ESPI | CTA-307 | 2023/08/02 | 2024/08/01 |
| EMI Test Receiver | R&S | ESCI | CTA-306 | 2023/08/02 | 2024/08/01 |
| Spectrum Analyzer | Agilent | N9020A | CTA-301 | 2023/08/02 | 2024/08/01 |
| Spectrum Analyzer | R&S | FSP | CTA-337 | 2023/08/02 | 2024/08/01 |
| Vector Signal generator | Agilent | N5182A | CTA-305 | 2023/08/02 | 2024/08/01 |
| Analog Signal Generator | R&S | SML03 | CTA-304 | 2023/08/02 | 2024/08/01 |
| Universal Radio Communication | CMW500 | R&S | CTA-302 | 2023/08/02 | 2024/08/01 |
| Temperature and humidity meter | Chigo | ZG-7020 | CTA-326 | 2023/08/02 | 2024/08/01 |
| Ultra-Broadband Antenna | Schwarzbeck | VULB9163 | CTA-310 | 2023/10/17 | 2024/10/16 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | CTA-309 | 2023/10/13 | 2024/10/12 |
| Loop Antenna | Zhinan | ZN30900C | CTA-311 | 2023/10/17 | 2024/10/16 |
| Horn Antenna | Beijing Hangwei Dayang | OBH100400 | CTA-336 | 2021/08/07 | 2024/08/06 |
| Antenna Tower | Suzhou Keletuo electronic Technology Co., LTD | BK-*AT-BS | N/A | N/A | N/A |
| Amplifier | Schwarzbeck | BBV 9745 | CTA-312 | 2023/08/02 | 2024/08/01 |
| Amplifier | Taiwan chengyi | EMC051845B | CTA-313 | 2023/08/02 | 2024/08/01 |
| Directional coupler | NARDA | 4226-10 | CTA-303 | 2023/08/02 | 2024/08/01 |
| High-Pass Filter | XingBo | XBLBQ-GTA18 | CTA-402 | 2023/08/02 | 2024/08/01 |
| High-Pass Filter | XingBo | XBLBQ-GTA27 | CTA-403 | 2023/08/02 | 2024/08/01 |
| Automated filter bank | Tonscend | JS0806-F | CTA-404 | 2023/08/02 | 2024/08/01 |
| Power Sensor | Agilent | U2021XA | CTA-405 | 2023/08/02 | 2024/08/01 |
| Amplifier | Schwarzbeck | BBV9719 | CTA-406 | 2023/08/02 | 2024/08/01 |

Note: The Cal.Interval was one year.

4. RADIATED MEASUREMENT

4.1. Standard Applicable

According to §15.209/ §15.205

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| \1\ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293. | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (\2) |
| 13.36-13.41 | | | |

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

4.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10 th carrier harmonic |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |

| Receiver Parameter | Setting |
|------------------------|--|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG |
| Start ~ Stop Frequency | 150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB/VB 120kHz/1MHz for QP |

4.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Premeasurement:

- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

Field Strength Calculation

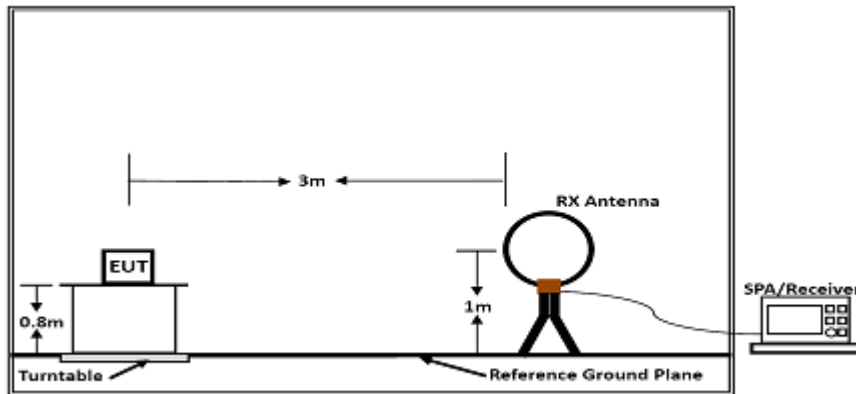
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

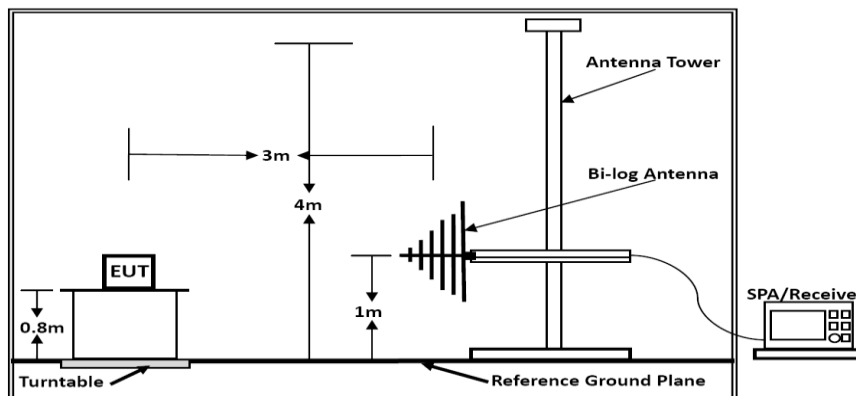
| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

$$Transd = AF + CL - AG$$

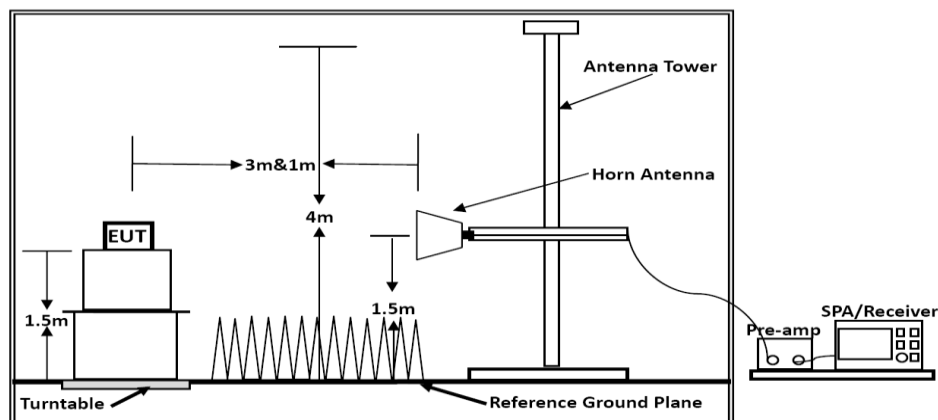
4.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.5. Test Results

| | | | |
|---------------|-------------|----------------|-------|
| Temperature | 24.5°C | Humidity | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC |

PASS.

The test data please refer to following page:

9 KHz~30MHz

Host:

| Freq. MHz | Reading dBuV | Factor dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark |
|-----------|--------------|-----------|-----------------|--------------|-----------|--------|
| 0.18 | 36.78 | 20.54 | 57.32 | 102.66 | 45.34 | QP |
| 0.88 | 35.19 | 20.48 | 55.67 | 82.66 | 26.99 | QP |
| 1.98 | 32.22 | 20.30 | 52.52 | 69.54 | 17.02 | QP |
| 5.01 | 25.40 | 20.32 | 45.72 | 69.54 | 23.82 | QP |
| 13.56 | 87.33 | 20.18 | 107.51 | 124.00 | 16.49 | QP |
| 14.96 | 28.55 | 20.12 | 48.67 | 69.54 | 20.87 | QP |
| 22.00 | 31.79 | 19.94 | 51.73 | 69.54 | 17.81 | QP |
| 26.02 | 31.93 | 19.95 | 51.88 | 69.54 | 17.66 | QP |

*Note: Emission Level= Reading Level + Factor

Factor= Antenna Factor + Cable Loss

Margin = Emission Level Limit – Measured Values

“--” means noise floor.

Scan Head:

| Freq. MHz | Reading dBuV | Factor dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark |
|-----------|--------------|-----------|-----------------|--------------|-----------|--------|
| 0.18 | 28.66 | 20.54 | 49.20 | 102.26 | 53.07 | QP |
| 0.92 | 32.47 | 20.48 | 52.95 | 82.26 | 29.32 | QP |
| 1.96 | 24.93 | 20.30 | 45.23 | 69.54 | 24.31 | QP |
| 4.97 | 32.61 | 20.32 | 52.93 | 69.54 | 16.61 | QP |
| 13.56 | 90.12 | 20.18 | 110.30 | 124.00 | 13.70 | QP |
| 15.00 | 32.12 | 20.12 | 52.24 | 69.54 | 17.30 | QP |
| 22.04 | 34.44 | 19.94 | 54.38 | 69.54 | 15.16 | QP |
| 26.01 | 28.69 | 19.95 | 48.64 | 69.54 | 20.90 | QP |

*Note: Emission Level= Reading Level + Factor

Factor= Antenna Factor + Cable Loss

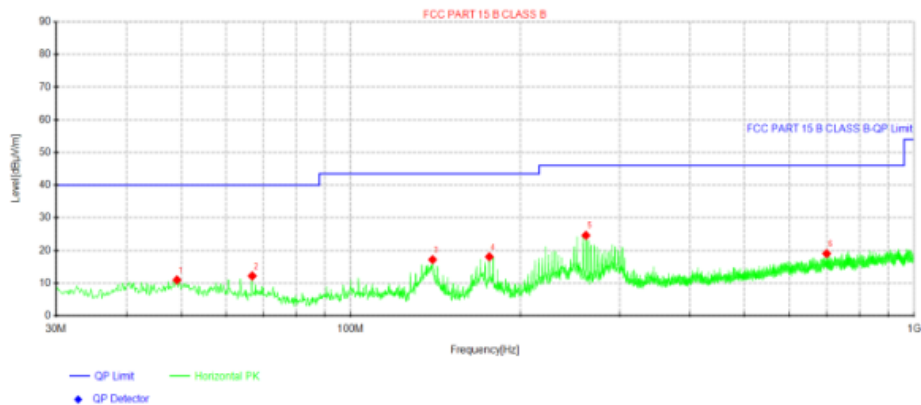
Margin = Emission Level Limit – Measured Values

“--” means noise floor.

30MHz ~ 1GHz

Horizontal

Test Graph



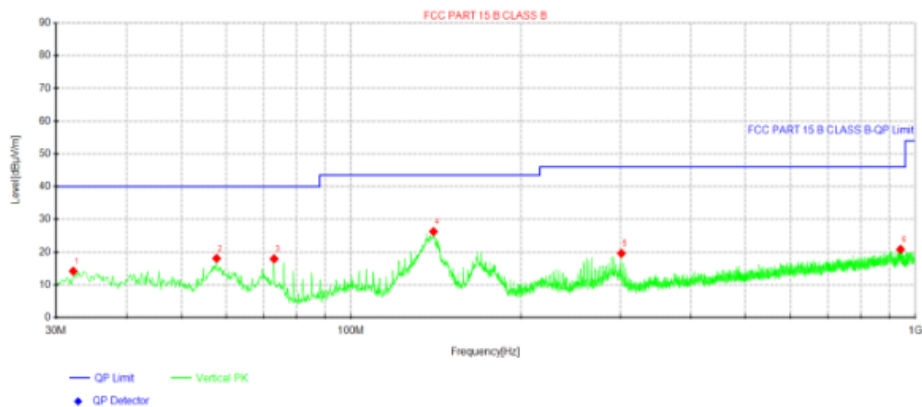
Suspected Data List

| NO. | Freq. [MHz] | Reading [dBµV] | Level [dBµV/m] | Factor [dB/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|------------|
| 1 | 49.1575 | 27.12 | 10.99 | -16.13 | 40.00 | 29.01 | 100 | 43 | Horizontal |
| 2 | 66.86 | 32.27 | 12.23 | -20.04 | 40.00 | 27.77 | 100 | 334 | Horizontal |
| 3 | 139.731 | 39.00 | 17.22 | -21.78 | 43.50 | 26.28 | 100 | 252 | Horizontal |
| 4 | 176.227 | 38.82 | 18.09 | -20.73 | 43.50 | 25.41 | 100 | 285 | Horizontal |
| 5 | 261.466 | 42.37 | 24.63 | -17.74 | 46.00 | 21.37 | 100 | 252 | Horizontal |
| 6 | 699.421 | 30.86 | 19.06 | -11.80 | 46.00 | 26.94 | 100 | 360 | Horizontal |

- Note: 1). Level (dBµV/m) = Reading (dBµV) + Factor (dB/m)
 2). Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
 3). Margin (dB) = Limit (dBµV/m) - Level (dBµV/m)

Vertical

Test Graph



Suspected Data List

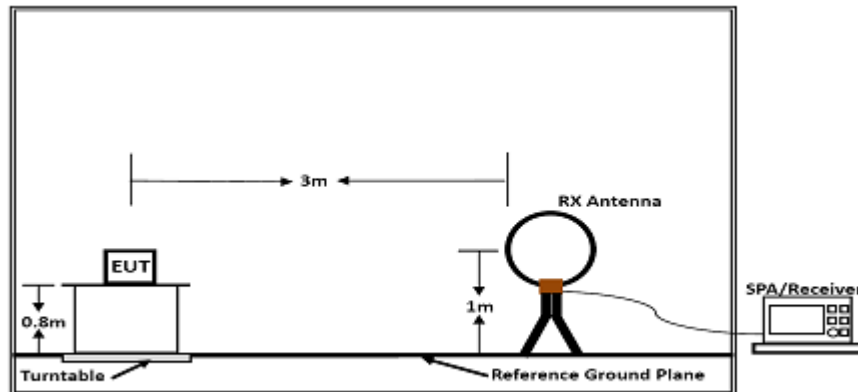
| NO. | Freq. [MHz] | Reading [dBµV] | Level [dBµV/m] | Factor [dB/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|----------|
| 1 | 32.1825 | 32.58 | 14.21 | -18.37 | 40.00 | 25.79 | 100 | 357 | Vertical |
| 2 | 57.7662 | 35.82 | 18.09 | -17.73 | 40.00 | 21.91 | 100 | 342 | Vertical |
| 3 | 73.0438 | 38.96 | 17.94 | -21.02 | 40.00 | 22.06 | 100 | 84 | Vertical |
| 4 | 139.973 | 48.07 | 26.28 | -21.79 | 43.50 | 17.22 | 100 | 13 | Vertical |
| 5 | 301.357 | 36.94 | 19.62 | -17.32 | 46.00 | 26.38 | 100 | 3 | Vertical |
| 6 | 941.315 | 29.78 | 20.83 | -8.95 | 46.00 | 25.17 | 100 | 6 | Vertical |

- Note: 1). Level (dBµV/m) = Reading (dBµV) + Factor (dB/m)
 2). Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
 3). Margin (dB) = Limit (dBµV/m) - Level (dBµV/m)

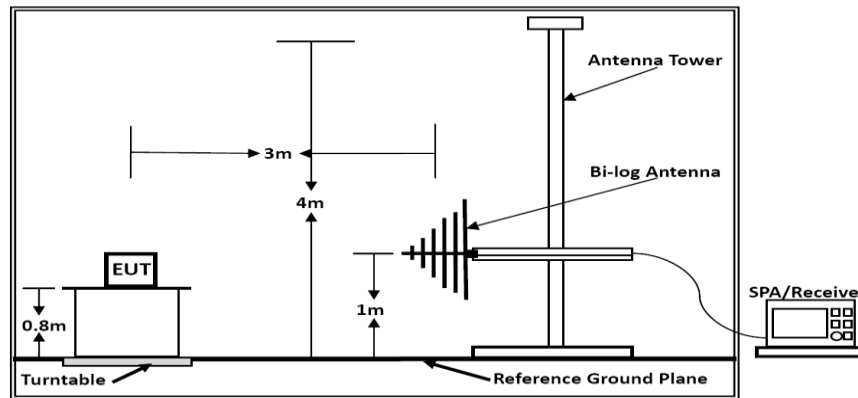
NOTE: All the modes have been tested and recorded worst mode in the report(With scanning head).

5. FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK MEASUREMENT

5.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz

5.2. Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Field Strength (dB μ V/m) at 10m | Field Strength (dB μ V/m) at 3m |
|--------------------|-----------------------------------|--------------------------------------|-------------------------------------|
| 13.553 ~ 13.567MHz | 15848 at 30m | 103.08 (QP) | 124 (QP) |

Mask Limit:

| Frequency (MHz) | Limit (dBuV/m) | Distance (m) |
|-----------------|----------------|--------------|
| 1.705-13.110 | 69.5 | 3 |
| 13.110-13.410 | 80.5 | 3 |
| 13.410-13.553 | 90.5 | 3 |
| 13.553-13.567 | 124.0 | 3 |
| 13.567-13.710 | 90.5 | 3 |
| 13.710-14.010 | 80.5 | 3 |
| 14.010-30.000 | 69.5 | 3 |

5.3. Test Results

| | | | |
|---------------|-------------|----------------|-------|
| Temperature | 24.5°C | Humidity | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC |

PASS.

The test data please refer to following page:

Host:

| | Freq.(MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin dB | Remark |
|---|------------|----------------|-------------|-----------------|----------------|-----------|--------|
| 1 | 13.22 | 33.47 | 20.18 | 53.65 | 80.50 | 26.85 | QP |
| 2 | 13.44 | 27.71 | 20.18 | 47.89 | 90.50 | 42.61 | QP |
| 3 | 13.56 | 24.13 | 20.18 | 44.31 | 80.50 | 36.19 | QP |
| 4 | 13.59 | 87.33 | 20.18 | 107.51 | 124.00 | 16.49 | QP |
| 5 | 13.62 | 30.25 | 20.18 | 50.43 | 90.50 | 40.07 | QP |
| 6 | 14.68 | 36.55 | 21.18 | 57.73 | 81.50 | 23.77 | QP |

*Note: Factor= Antenna Factor + Cable Loss

Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

Measured distance is 3m.

All emissions emit from non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

Scan Head:

| | Freq.(MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin dB | Remark |
|---|------------|----------------|-------------|-----------------|----------------|-----------|--------|
| 1 | 13.21 | 30.76 | 20.18 | 50.94 | 80.50 | 29.56 | QP |
| 2 | 13.40 | 33.30 | 20.18 | 53.48 | 90.50 | 37.02 | QP |
| 3 | 13.56 | 90.12 | 20.18 | 110.30 | 124.00 | 13.70 | QP |
| 4 | 13.61 | 29.79 | 20.18 | 49.97 | 90.50 | 40.53 | QP |
| 5 | 13.67 | 32.16 | 20.18 | 52.34 | 90.50 | 38.16 | QP |
| 6 | 14.72 | 34.43 | 21.18 | 55.61 | 81.50 | 25.89 | QP |

*Note: Factor= Antenna Factor + Cable Loss

Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

Measured distance is 3m.

All emissions emit from non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

6. BANDWIDTH OF THE OPERATING FREQUENCY

6.1. Standard Applicable

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 ~ 13.567MHz).

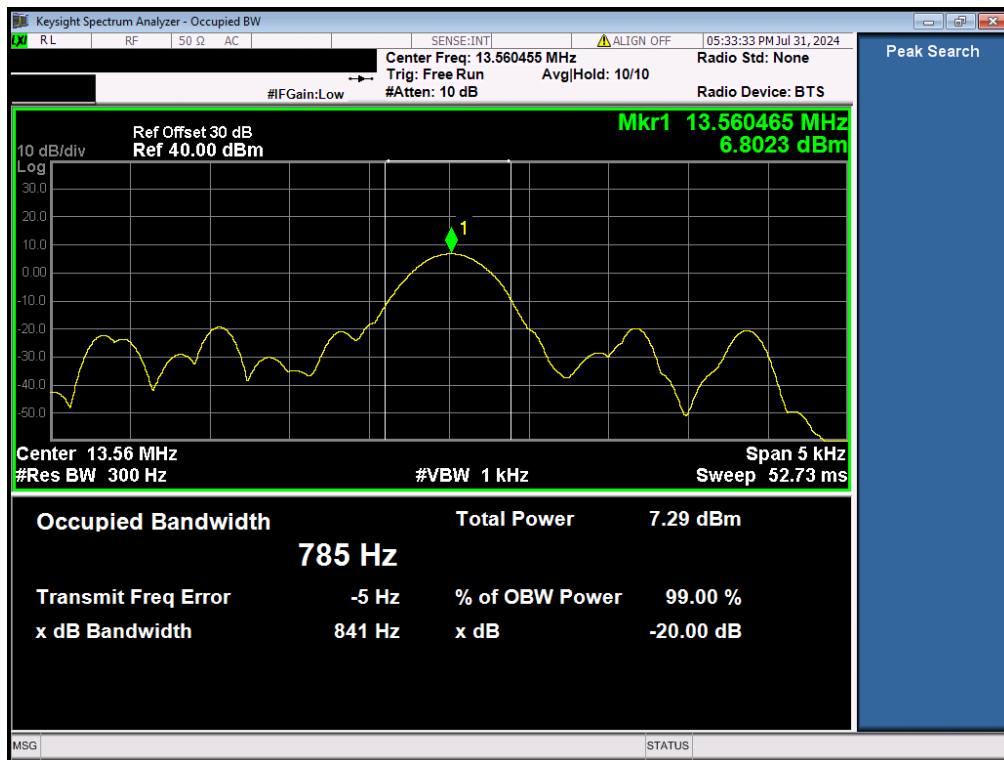
6.2. Test Result

| | | | |
|---------------|-------------|----------------|-------|
| Temperature | 24.5°C | Humidity | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC |

Host:

| Carrier Frequency (MHz) | 20dB Bandwidth (KHz) | F _L (MHz) | F _H (MHz) |
|-------------------------|----------------------|----------------------|----------------------|
| 13.56 | 0.841 | 13.5595795 | 13.5604205 |

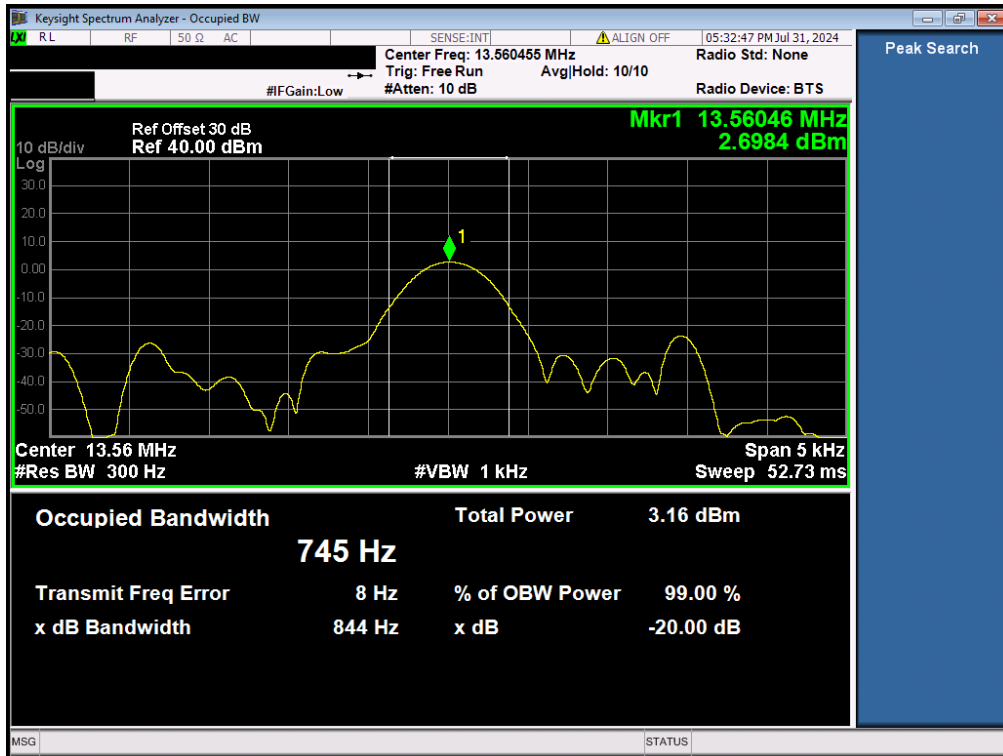
Please refer to the test plot:



Scan Head:

| Carrier Frequency (MHz) | 20dB Bandwidth (KHz) | F _L (MHz) | F _H (MHz) |
|-------------------------|----------------------|----------------------|----------------------|
| 13.56 | 0.844 | 13.5595793 | 13.5604210 |

Please refer to the test plot:



7. FREQUENCY STABILITY MEASUREMENT

7.1. Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a full charged battery.

7.2. Test Result

| | | | |
|---------------|-------------|----------------|-------|
| Temperature | 24.5°C | Humidity | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC |

Host:

Voltage vs. Frequency Stability

| Voltage(V) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------|-----------------------------|-----------------|-----------------|-------------|
| DC 8.36 V | 13.560028 | 0.028 | 2.08 | 100 |
| DC 7.6V | 13.560027 | 0.027 | 1.97 | 100 |
| DC 6.84 V | 13.560043 | 0.043 | 3.15 | 100 |

Temperature vs. Frequency Stability

| Temperature (°C) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------------|-----------------------------|-----------------|-----------------|-------------|
| -20 | 13.560049 | 0.049 | 3.64 | 100 |
| -10 | 13.560067 | 0.067 | 4.93 | 100 |
| 0 | 13.560032 | 0.032 | 2.35 | 100 |
| 10 | 13.560047 | 0.047 | 3.50 | 100 |
| 20 | 13.560020 | 0.020 | 1.49 | 100 |
| 30 | 13.560036 | 0.036 | 2.64 | 100 |
| 40 | 13.560036 | 0.036 | 2.64 | 100 |
| 50 | 13.560033 | 0.033 | 2.43 | 100 |

Host:

Voltage vs. Frequency Stability

| Voltage(V) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------|-----------------------------|-----------------|-----------------|-------------|
| DC 8.36 V | 13.560027 | 0.027 | 2.03 | 100 |
| DC 7.6V | 13.560032 | 0.032 | 2.39 | 100 |
| DC 6.84 V | 13.560040 | 0.040 | 2.93 | 100 |

Temperature vs. Frequency Stability

| Temperature (°C) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------------|-----------------------------|-----------------|-----------------|-------------|
| -20 | 13.560049 | 0.049 | 3.64 | 100 |
| -10 | 13.560059 | 0.059 | 4.33 | 100 |
| 0 | 13.560036 | 0.036 | 2.64 | 100 |
| 10 | 13.560049 | 0.049 | 3.63 | 100 |
| 20 | 13.560023 | 0.023 | 1.69 | 100 |
| 30 | 13.560040 | 0.040 | 2.93 | 100 |
| 40 | 13.560044 | 0.044 | 3.25 | 100 |
| 50 | 13.560033 | 0.033 | 2.44 | 100 |

8. LINE CONDUCTED EMISSIONS

8.1. Standard Applicable

According to §15.207(a): For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBµV) | |
|-----------------------|---------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

* Decreasing linearly with the logarithm of the frequency

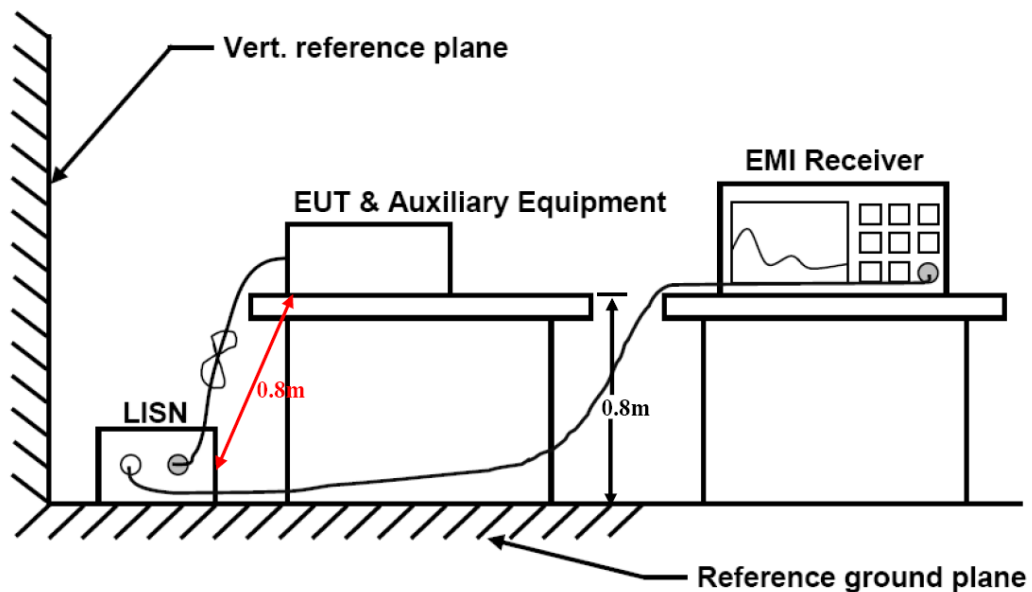
DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

| | |
|----------------------------------|--|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | PL = 10 dB Pulse Limiter Factor |

8.2. Block Diagram of Test Setup

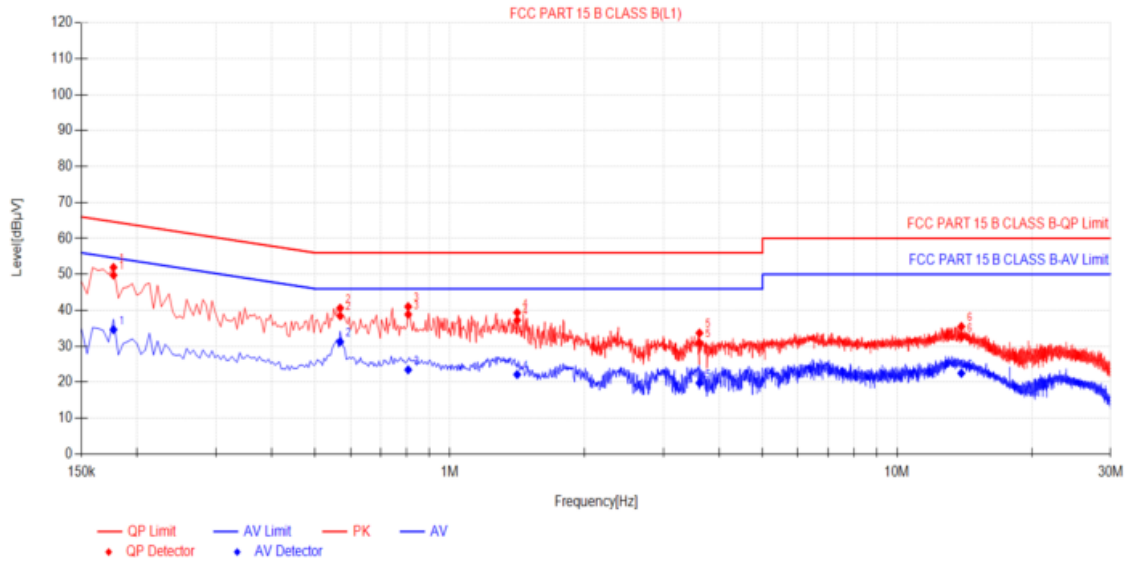


8.3. Test Results

| | | | |
|---------------|-------------|----------------|-------|
| Temperature | 24.5°C | Humidity | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC |

| | | | |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

Test Graph



Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB µV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
|-----|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1 | 0.177 | 10.50 | 39.28 | 49.78 | 64.63 | 14.85 | 24.12 | 34.62 | 54.63 | 20.01 | PASS |
| 2 | 0.5685 | 10.50 | 27.95 | 38.45 | 56.00 | 17.55 | 20.75 | 31.25 | 46.00 | 14.75 | PASS |
| 3 | 0.807 | 10.50 | 28.37 | 38.87 | 56.00 | 17.13 | 12.95 | 23.45 | 46.00 | 22.55 | PASS |
| 4 | 1.4145 | 10.50 | 26.72 | 37.22 | 56.00 | 18.78 | 11.63 | 22.13 | 46.00 | 23.87 | PASS |
| 5 | 3.615 | 10.50 | 20.42 | 30.92 | 56.00 | 25.08 | 9.26 | 19.76 | 46.00 | 26.24 | PASS |
| 6 | 13.92 | 10.50 | 22.11 | 32.61 | 60.00 | 27.39 | 12.00 | 22.50 | 50.00 | 27.50 | PASS |

Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB)

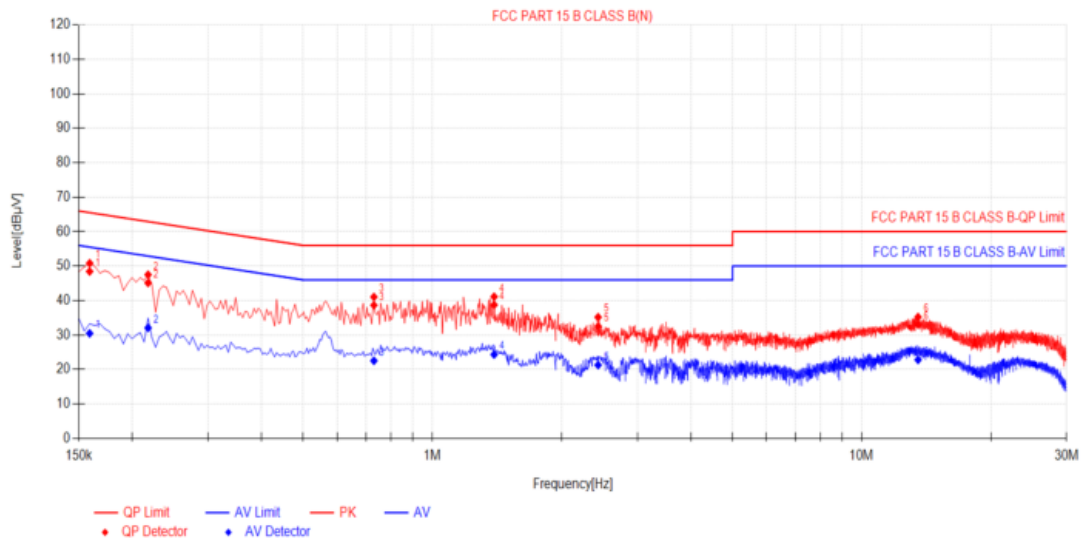
2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBµV) - QP Value (dBµV)

4). AVMargin(dB) = AV Limit (dBµV) - AV Value (dBµV)

| | | | |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

Test Graph



Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB µV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
|-----|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1 | 0.159 | 10.50 | 37.95 | 48.45 | 65.52 | 17.07 | 19.98 | 30.48 | 55.52 | 25.04 | PASS |
| 2 | 0.2175 | 10.50 | 34.63 | 45.13 | 62.91 | 17.78 | 21.58 | 32.08 | 52.91 | 20.83 | PASS |
| 3 | 0.7305 | 10.50 | 28.17 | 38.67 | 56.00 | 17.33 | 12.03 | 22.53 | 46.00 | 23.47 | PASS |
| 4 | 1.392 | 10.50 | 28.25 | 38.75 | 56.00 | 17.25 | 13.85 | 24.35 | 46.00 | 21.65 | PASS |
| 5 | 2.4315 | 10.50 | 21.99 | 32.49 | 56.00 | 23.51 | 10.79 | 21.29 | 46.00 | 24.71 | PASS |
| 6 | 13.5285 | 10.50 | 22.53 | 33.03 | 60.00 | 26.97 | 12.30 | 22.80 | 50.00 | 27.20 | PASS |

Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB)

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBµV) - QP Value (dBµV)

4). AVMargin(dB) = AV Limit (dBµV) - AV Value (dBµV)

NOTE: All the modes have been tested and recorded worst mode in the report(With scanning head).

9. ANTENNA REQUIREMENTS

9.1. Standard Applicable

According to antenna requirement of §15.203.

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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

9.2. Antenna Connected Construction

9.2.1. Standard Applicable

According to § 15.203, 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.

9.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is 0dBi, and the antenna is a Loop antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

9.2.3. Results: Compliance.

10. TEST SETUP PHOTOS OF THE EUT

Photo of Radiated Emissions Measurement



Fig. 1



Fig. 2

Photo of Conducted Emission Measurement



Fig. 3

11. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: CTA24071501701.

.....**End of Report**.....