



TEST REPORT

Application No: AR/2020/C0008
Applicant: FIH CO., LTD
Address of Applicant: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer: FIH CO., LTD
Address of Manufacturer: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
EUT Description: WCDMA/LTE Mobile Phone
Model No.: EA1002, EC1002
Trade Mark: FIH
FCC ID: RYQEC1002
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/12/18
Date of Test: 2020/12/18 to 2021/1/8
Date of Issue: 2021/8/15

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

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

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|-----------|-----------|---|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021/1/8 | | Original |
| 02 | | 2021/5/31 | Leah Chen | 1. Modify data conversion error of antenna height 2.Updated equipment list |
| 03 | | 2021/8/15 | Leah Chen | 1.Updated Support Units, Test facility and Test Location |

This report supersedes our previous report AR/2020/C000806, issued on 2021-01-08, which is hereby deemed null and void.

| | |
|--------------------------|---|
| Authorized for issue by: | |
| Prepared By |  (Leah Chen) /Engineer |
| Checked By |  (Daniel Wang) /Reviewer |



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Test Summary

| Emission Part | | | | |
|---|---------------------------|-----------------|-------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |
| Radiated Emissions (above 1GHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |

| Internal Source | Upper Frequency |
|--------------------|--|
| Below 1.705MHz | 30MHz |
| 1.705MHz to 108MHz | 1GHz |
| 108MHz to 500MHz | 2GHz |
| 500MHz to 1GHz | 5GHz |
| Above 1GHz | 5th harmonic of the highest frequency or 40GHz, whichever is lower |

Remark:

According to the declaration letter from manufacturer, for EC1002 is all test, and for EA1002 shares the same test data of EC1002 in this report.



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Contents

| | | |
|----------|---|-----------|
| 1 | GENERAL INFORMATION | 5 |
| 1.1 | DESCRIPTION OF SUPPORT UNITS | 7 |
| 1.2 | TEST LOCATION..... | 7 |
| 1.3 | TEST FACILITY..... | 7 |
| 1.4 | DEVIATION FROM STANDARDS..... | 7 |
| 1.5 | ABNORMALITIES FROM STANDARD CONDITIONS | 7 |
| 2 | EMISSION TEST RESULTS | 8 |
| 2.1 | CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) | 8 |
| 2.1.1 | E.U.T. Operation | 8 |
| 2.1.2 | Test Setup Diagram | 9 |
| 2.1.3 | Measurement Data | 9 |
| 2.2 | RADIATED EMISSIONS (30MHZ-1GHZ) | 12 |
| 2.2.1 | E.U.T. Operation | 12 |
| 2.2.2 | Test Setup Diagram | 13 |
| 2.2.3 | Measurement Data | 13 |
| 2.3 | RADIATED EMISSIONS (ABOVE 1GHZ)..... | 16 |
| 2.3.1 | E.U.T. Operation | 16 |
| 2.3.2 | Test Setup Diagram | 16 |
| 2.3.3 | Measurement Data | 17 |
| 3 | EQUIPMENT LIST | 20 |
| 4 | MEASUREMENT UNCERTAINTY | 22 |
| 5 | PHOTOGRAPHS..... | 23 |
| 5.1 | TEST SETUP..... | 23 |
| 5.2 | EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)..... | 23 |



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1 General Information

| | | | |
|-------------------|---|-------------|-------------|
| Product Name: | WCDMA/LTE Mobile Phone | | |
| Model No.(EUT): | EA1002, EC1002 | | |
| Trade Mark: | FIH | | |
| Hardware Version: | HW 3.0 | | |
| Software Version: | EA1002_01N0_1_180, EC1002_00N0_1_180 | | |
| Frequency Bands: | Band | Tx (MHz) | Rx (MHz) |
| | WCDMA Band II | 1850~1910 | 1930~1990 |
| | WCDMA Band IV | 1710~1755 | 2110~2155 |
| | WCDMA Band V | 824~849 | 869~894 |
| | LTE Band 2 | 1850~1910 | 1930~1990 |
| | LTE Band 4 | 1710~1755 | 2110~2155 |
| | LTE Band 5 | 824~849 | 869~894 |
| | LTE Band 12 | 699~716 | 729~746 |
| | LTE Band 14 | 788~798 | 746~756 |
| | LTE Band 30 | 2305~2315 | 2350~2360 |
| | LTE Band 66 | 1710~1780 | 2110~2200 |
| | Wi-Fi 2.4G | 2400~2483.5 | 2400~2483.5 |
| | Bluetooth | 2400~2483.5 | 2400~2483.5 |
| | Wi-Fi 5G | 5150~5850 | 5150~5850 |
| | FM | 80-108 | |
| | GNSS(GPS/Glonass/Bei dou/Galileo/SBAS) | 1559~1610 | |



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Accessory:

| | | | |
|-----------|---|----------|-----------------------|
| Battery | | | |
| Battery | Zhongshan Tianmao Battery Co.,LTD | HE399 | 3.85V,3900mAh/15.01Wh |
| USB Cable | | | |
| USB Cable | YuYang | HPAC0335 | / |
| Adapter | | | |
| Adapter | Jiangsu chenyang Electron Co.,Ltd. | UC13US | / |
| Earphone | | | |
| Earphone | FIT | WH-108 | / |



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1.1 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|--------------|------------|
| Router | NETGEAR | R6020 | No.XA1401 |
| Computer | Lenovo | L480 | No.XA1402 |
| Mouse | A4TECH | OP-520NU USB | No.XA1403 |

1.2 Test Location

All tests were performed at:

| | |
|----------------|--|
| Company: | SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. |
| Address: | 1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China |
| Post code: | 710086 |
| Test engineer: | Ben Huang, Leah Chen |

No tests were sub-contracted.

1.3 Test Facility

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

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

- **FCC –Designation Number: CN1271.**

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

| | |
|-------------------|--|
| Test Requirement: | 47 CFR Part 15, Subpart B |
| Test Method: | ANSI C63.4:2014 |
| Frequency Range: | 150kHz to 30MHz |
| Limit: | |
| 0.15M-0.5MHz | 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average |
| 0.5M-5MHz | 56dB(μV) quasi-peak, 46dB(μV) average |
| 5M-30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: WCDMA Band V Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- c: LTE Band 5 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)
- d: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)
- e: LTE Band 14 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3

The worst case for final test: b: WCDMA Band V Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1



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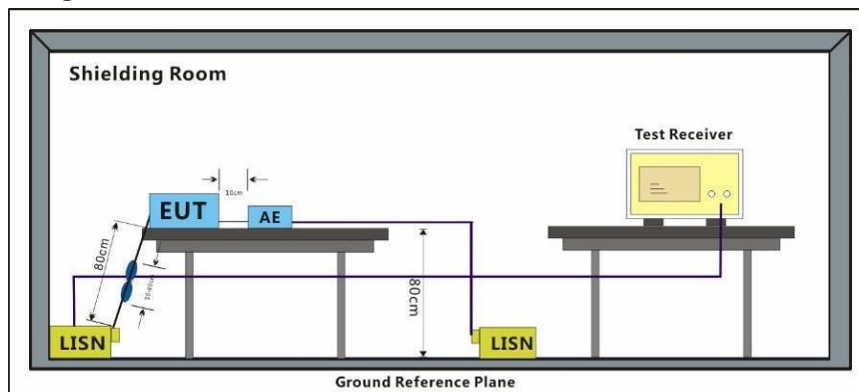
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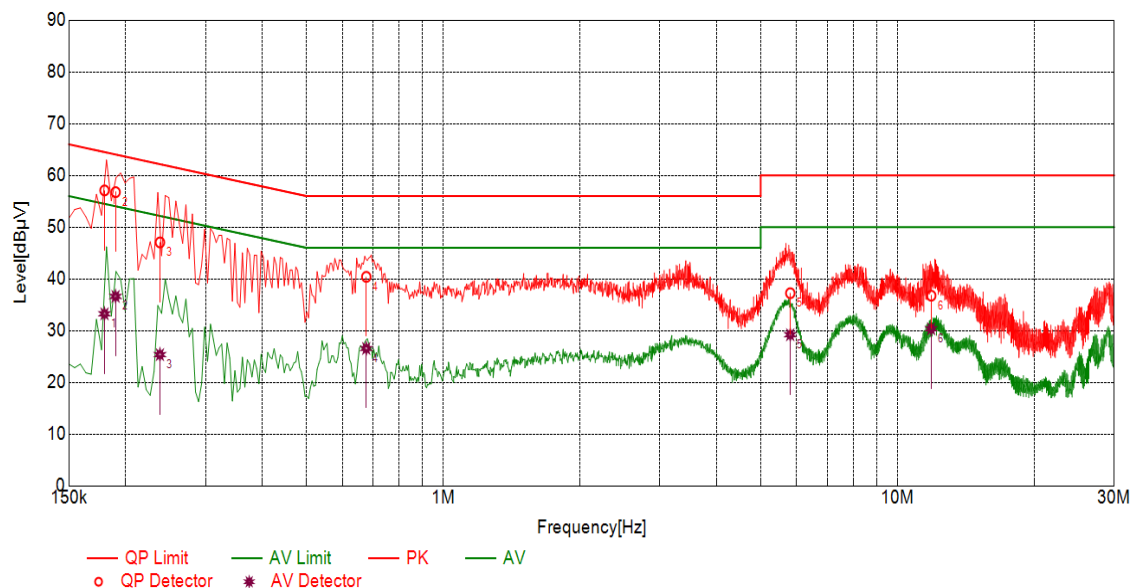
2.1.2 Test Setup Diagram



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Mode:b; Line:Live Line



Test Graph

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Type |
|-----|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|
| 1 | 0.1797 | 10.10 | 57.10 | 64.50 | 7.40 | 33.24 | 54.50 | 21.26 | L |
| 2 | 0.1901 | 10.10 | 56.76 | 64.03 | 7.27 | 36.61 | 54.03 | 17.42 | L |
| 3 | 0.2380 | 10.10 | 47.06 | 62.17 | 15.11 | 25.35 | 52.17 | 26.82 | L |
| 4 | 0.6772 | 10.10 | 40.40 | 56.00 | 15.60 | 26.54 | 46.00 | 19.46 | L |
| 5 | 5.8078 | 10.10 | 37.24 | 60.00 | 22.76 | 29.20 | 50.00 | 20.80 | L |
| 6 | 11.8656 | 10.10 | 36.75 | 60.00 | 23.25 | 30.35 | 50.00 | 19.65 | L |



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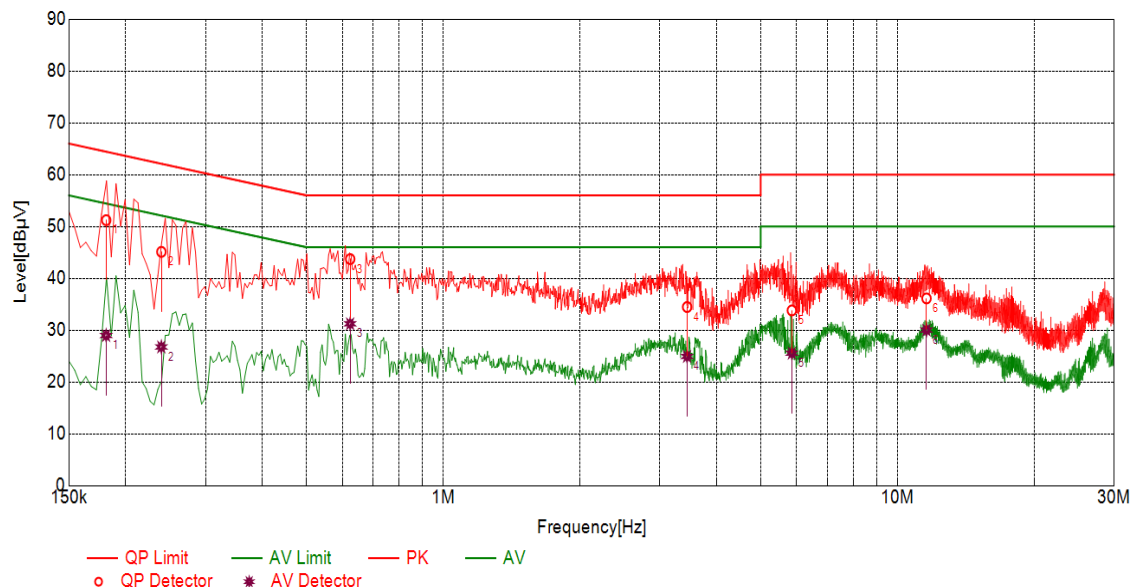
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Member of the SGS Group (SGS SA)

Mode:b; Line:Neutral Line



Test Graph

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Type |
|-----|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|
| 1 | 0.1812 | 10.10 | 51.22 | 64.43 | 13.21 | 28.96 | 54.43 | 25.47 | N |
| 2 | 0.2397 | 10.10 | 45.11 | 62.11 | 17.00 | 26.76 | 52.11 | 25.35 | N |
| 3 | 0.6241 | 10.10 | 43.71 | 56.00 | 12.29 | 31.23 | 46.00 | 14.77 | N |
| 4 | 3.4425 | 10.10 | 34.47 | 56.00 | 21.53 | 24.93 | 46.00 | 21.07 | N |
| 5 | 5.8546 | 10.10 | 33.81 | 60.00 | 26.19 | 25.56 | 50.00 | 24.44 | N |
| 6 | 11.5848 | 10.10 | 36.13 | 60.00 | 23.87 | 30.02 | 50.00 | 19.98 | N |



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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Limit:
 30MHz -88MHz 40.0(dBμV/m) quasi-peak
 88MHz-216MHz 43.5(dBμV/m) quasi-peak
 216MHz-960MHz 46.0(dBμV/m) quasi-peak
 960MHz-1000MHz 54.0(dBμV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: WCDMA Band V Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- c: LTE Band 5 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)
- d: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)
- e: LTE Band 14 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3

The worst case for final test: a: Transfer data between the EUT and the PC+USB cable1

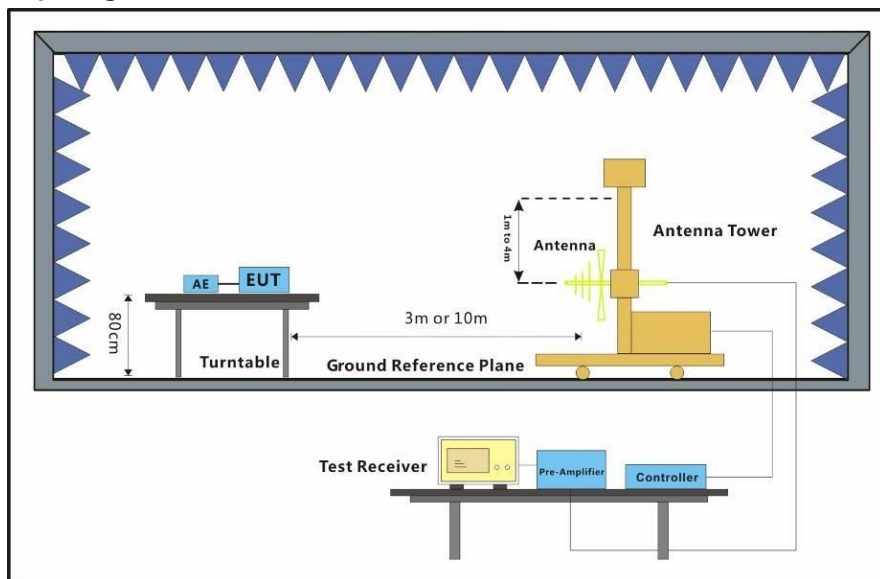


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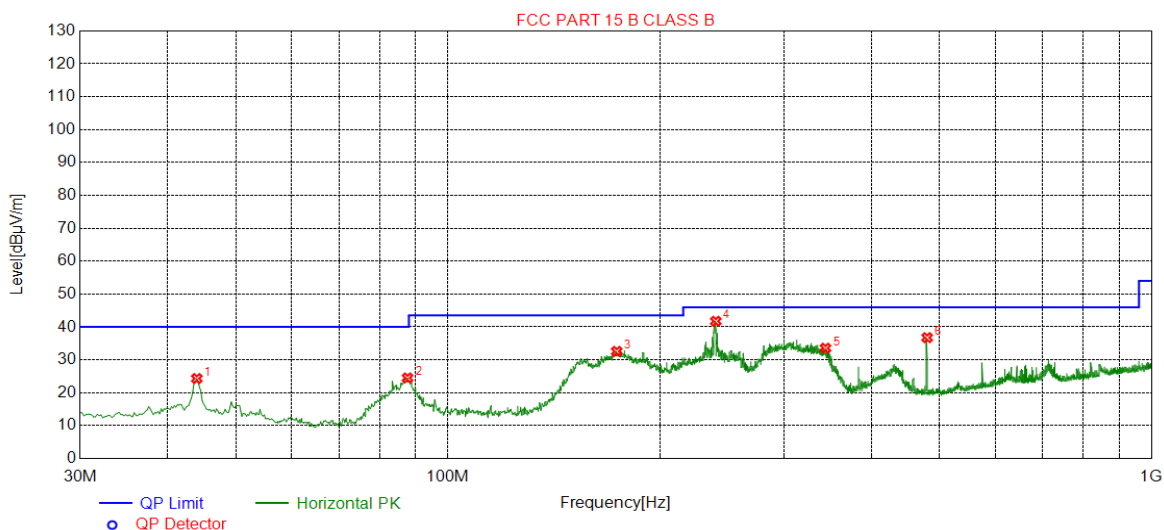
2.2.2 Test Setup Diagram



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Mode:a; Polarization:Horizontal



Suspected List

| Suspected List | | | | | | | |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 43.9708 | 24.33 | 40.00 | 15.67 | 232 | 314 | Horizontal |
| 2 | 87.6295 | 24.52 | 40.00 | 15.48 | 142 | 55 | Horizontal |
| 3 | 173.7828 | 32.58 | 43.50 | 10.92 | 171 | 64 | Horizontal |
| 4 | 240.3381 | 41.75 | 46.00 | 4.25 | 159 | 356 | Horizontal |
| 5 | 344.1488 | 33.56 | 46.00 | 12.44 | 107 | 35 | Horizontal |
| 6 | 479.9760 | 36.76 | 46.00 | 9.24 | 209 | 40 | Horizontal |



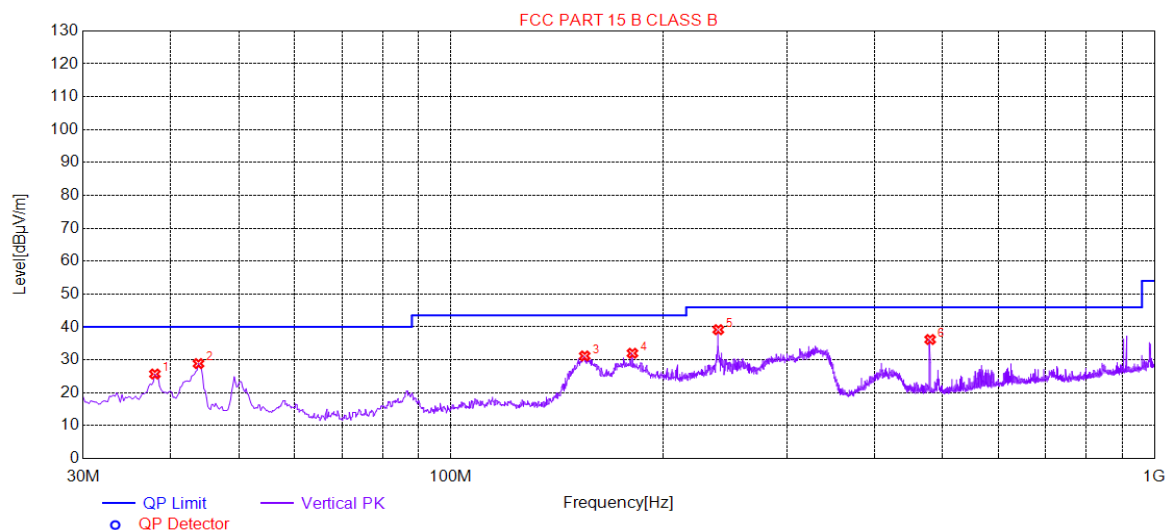
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Mode:a; Polarization:Vertical



Suspected List

| Suspected List | | | | | | | |
|----------------|----------------|-------------------|-------------------|----------------|----------------|--------------|----------|
| NO. | Freq. [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 37.9556 | 25.70 | 40.00 | 14.30 | 296 | 294 | Vertical |
| 2 | 43.7768 | 28.87 | 40.00 | 11.13 | 196 | 254 | Vertical |
| 3 | 154.9610 | 31.20 | 43.50 | 12.30 | 244 | 96 | Vertical |
| 4 | 181.1562 | 32.01 | 43.50 | 11.49 | 172 | 96 | Vertical |
| 5 | 239.9500 | 39.18 | 46.00 | 6.82 | 193 | 28 | Vertical |
| 6 | 479.9760 | 36.19 | 46.00 | 9.81 | 286 | 352 | Vertical |



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2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Limit:
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

2.3.1 E.U.T. Operation

Operating Environment:

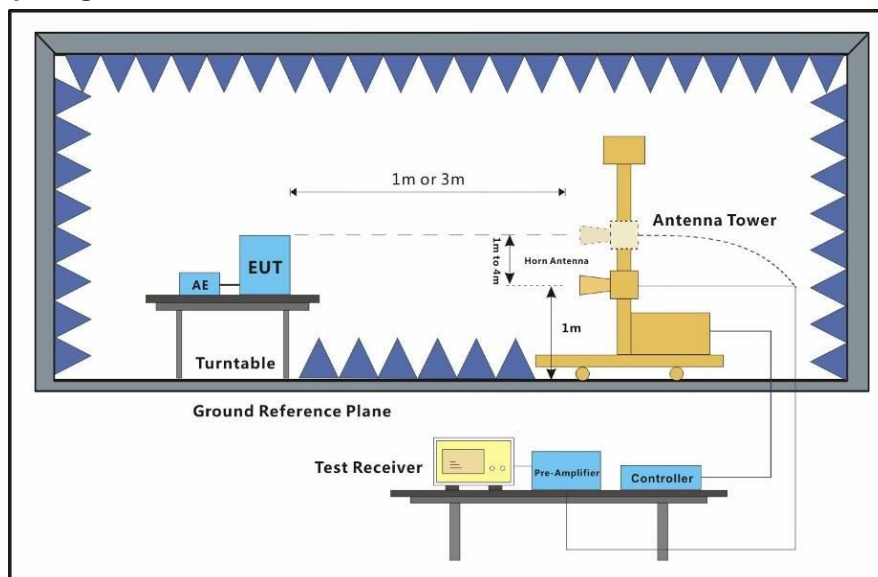
Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: WCDMA Band V Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- c: LTE Band 5 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)
- d: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)
- e: LTE Band 14 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3

The worst case for final test: c: LTE Band 5 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

2.3.2 Test Setup Diagram



2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



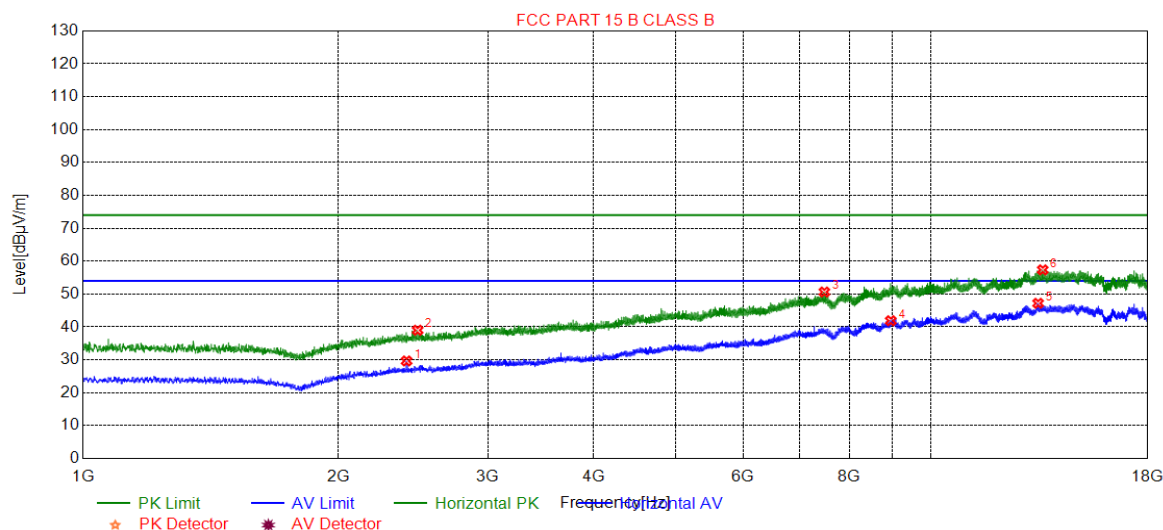
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Mode:c; Polarization:Horizontal



Suspected List

| Suspected List | | | | | | | |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2406.820 | 29.67 | 54.00 | 24.33 | 208 | 359 | Horizontal |
| 2 | 2479.924 | 39.02 | 74.00 | 34.98 | 121 | 297 | Horizontal |
| 3 | 7479.874 | 50.64 | 74.00 | 23.36 | 190 | 344 | Horizontal |
| 4 | 8958.097 | 41.89 | 54.00 | 12.11 | 243 | 16 | Horizontal |
| 5 | 13361.31 | 47.20 | 54.00 | 6.80 | 249 | 258 | Horizontal |
| 6 | 13530.47 | 57.37 | 74.00 | 16.63 | 123 | 172 | Horizontal |



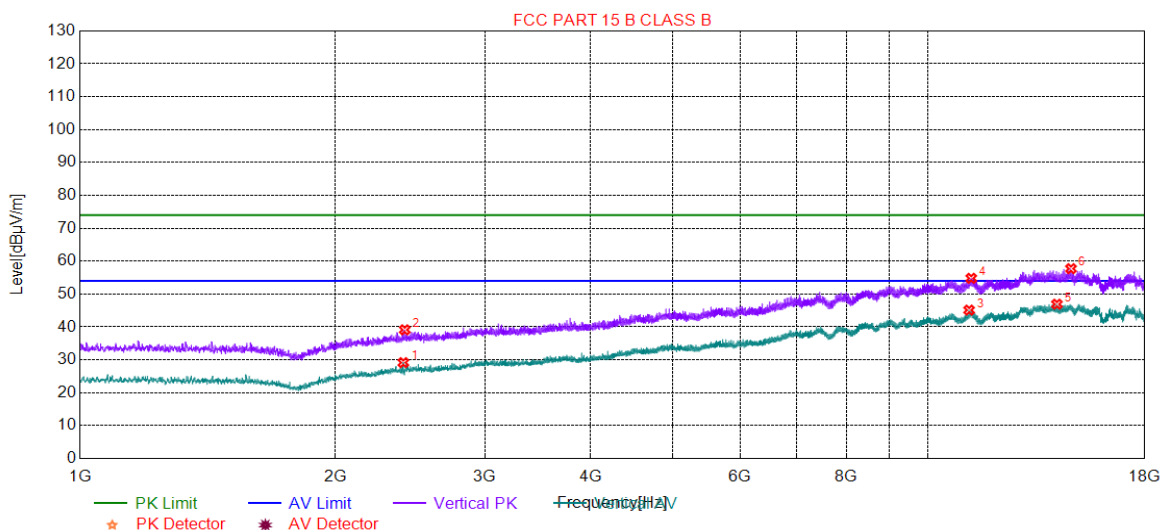
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Mode:c; Polarization:Vertical



Suspected List

| Suspected List | | | | | | | |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2405.120 | 29.17 | 54.00 | 24.83 | 206 | 102 | Vertical |
| 2 | 2414.470 | 39.14 | 74.00 | 34.86 | 198 | 16 | Vertical |
| 3 | 11170.75 | 45.13 | 54.00 | 8.87 | 182 | 37 | Vertical |
| 4 | 11234.51 | 54.80 | 74.00 | 19.20 | 254 | 275 | Vertical |
| 5 | 14178.20 | 46.93 | 54.00 | 7.07 | 279 | 41 | Vertical |
| 6 | 14729.03 | 57.73 | 74.00 | 16.27 | 166 | 146 | Vertical |



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3 Equipment List

| CE Test System | | | | | |
|--------------------------------|---------------|-------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2020-09-11 | 2021-09-10 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | XAW01-04-01 | 2020-08-04 | 2021-08-03 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |
| Measurement Software | Tonscend | TS+ CE V2.5 | XAW02-05-02 | NCR | NCR |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2020-04-02 | 2021-04-01 |

| RE Test System | | | | | |
|-------------------------------------|----------------|-------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| MXA signal analyzer | Keysight | N9020A | XAW01-06-01 | 2020-04-02 | 2021-04-01 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2020-09-11 | 2021-09-10 |
| Receiving antenna (30MHz-3GHz) | Schwarzbeck | VULB 9163 | XAW01-09-01 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (1GHz~18GHz) | Schwarzbeck | BBHA 9120D | XAW01-09-02 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (15GHz~40GHz) | Schwarzbeck | BBHA 9170 | XAW01-09-03 | 2019-10-13 | 2021-10-12 |
| Directional antenna rack controller | Max-Full | MF-7802BS | XAW03-03-01 | NCR | NCR |
| High-speed antenna rack controller | Max-Full | MF-7802 | XAW03-04-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806-F | XAW03-05-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806s | XAW03-05-02 | NCR | NCR |
| Amplifier | Tonscend | TAP00903040 | XAW01-41-01 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP01018048 | XAW01-41-02 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP18040048 | XAW01-41-03 | 2020-10-27 | 2021-10-26 |
| Amplifier | Shanghai Steed | YX28980930 | XAW01-41-06 | 2020-10-26 | 2021-10-25 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |



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Report No.: AR/2020/C000806-01

Page: 21 of 23

| | | | | | |
|------------------------------|---------------|------------------|-------------|------------|------------|
| Measurement Software | Tonscend | TS+ RSE V3.0.0.2 | XAW02-05-01 | NCR | NCR |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2020-04-02 | 2021-04-01 |



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4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------|--------------------------------------|
| 1 | Conduction Emission | $\pm 3.0\text{dB}$ (150kHz to 30MHz) |
| 2 | Radiated Emission | $\pm 4.8\text{dB}$ (Below 1GHz) |
| | | $\pm 4.8\text{dB}$ (1GHz to 6GHz) |
| | | $\pm 4.5\text{dB}$ (6GHz to 18GHz) |
| | | $\pm 5.02\text{dB}$ (Above 18GHz) |



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5 Photographs

5.1 Test Setup

Refer to Appendix A JBP Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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