



TEST REPORT

No. I20D00114-SRD25

For

Client: MobiWire SAS

Production: 4G Smart Phone

Model Name: MobiWire Sora |H5024,Smart E11 (H5024)

Brand Name: MobiWire,Vodafone

FCC ID : QPN-SORA

Hardware Version: V01A

Software Version: SORA_V01_200520

Issued date: 2020-09-11

NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
3. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

Test Laboratory:

East China Institute of Telecommunications

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Revision Version

| Report Number | Revision | Date | Memo |
|----------------------|-----------------|-------------|------------------------------------|
| I20D00114-SRD25 | 00 | 2020-08-20 | Initial creation of test report |
| I20D00114-SRD25 | 01 | 2020-09-09 | First modification of test report |
| I20D00114-SRD25 | 02 | 2020-09-11 | Second modification of test report |

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1. Test Laboratory

1.1. Testing Location

| | |
|---------------------|--|
| Company Name | East China Institute of Telecommunications |
| Address | Block No.4, No.766, Jingang Road, Pudong District, Shanghai, P. R. China |
| Postal Code | 201206 |
| Telephone | +86 21 63843300 |
| FCC registration No | CN1177 |

1.2. Testing Environment

| | |
|--------------------|-----------|
| Normal Temperature | 15°C-35°C |
| Relative Humidity | 20%-75% |

1.3. Project Data

| | |
|--------------------|------------|
| Project Leader | Yu Anlu |
| Testing Start Date | 2020-08-03 |
| Testing End Date | 2020-09-09 |


1.4. Signature



Liu Yan
(Prepared this test report)



Fan Songyan
(Reviewed this test report)



Zheng Zhongbin
(Approved this test report)

2. Client Information

2.1. Applicant Information

| | |
|--------------|---|
| Company Name | MobiWire SAS |
| Address | 79 avenue Francois Arago, 92000 NANTERRE France |
| Telephone | +33668018722 |
| Postcode | / |

2.2. Manufacturer Information

| | |
|--------------|---|
| Company Name | MobiWire SAS |
| Address | 79 avenue Francois Arago, 92000 NANTERRE France |
| Telephone | +33668018722 |
| Postcode | / |

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

| | |
|----------------------------|---|
| Production | 4G Smart Phone |
| Model name | MobiWire Sora H5024,Smart E11 (H5024) |
| Occupied Channel Bandwidth | 20 MHz: 802.11 a/n/ac 40 MHz: 802.11 n/ac 80 MHz: 802.11 ac |
| WLAN Frequency | UNII 3: 5725MHz-5850MHz |
| WLAN type of modulation | OFDM |
| Extreme Temperature | -10/+55°C |
| Nominal Voltage | 3.80V |
| Extreme High Voltage | 4.35V |
| Extreme Low Voltage | 3.60V |
| Maximum of Antenna Gain | WiFi5.8GHz: -1dBi |

Note:

- a. Photographs of EUT are shown in ANNEX A of this test report.
- b. The value of the antenna gain is provided by the customer. For specific antenna information, please check the antenna specifications of the customer.

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of receipt |
|---------|-----------------|------------|-----------------|-----------------|
| N03 | 354128300000727 | V01A | SORA_V01_200520 | 2020-07-24 |

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

| AE ID* | Description | Type | Manufacturer |
|--------|-------------|------|--------------|
| AE1 | RF cable | / | MobiWire SAS |

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

All technical documents are supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|------------|---|------------|
| FCC Part15 | FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; Subpart E—Unlicensed National Information Infrastructure Devices | 2018-10-01 |
| ANSI 63.10 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2013 |
| KDB 789033 | Information Infrastructure (U-NII) Devices - Part 15, Subpart E | 2017 |

5. Test Results

5.1. Summary of Test Results

| Measurement Items | Sub-clause of Part15 | Verdict |
|--|----------------------|---------|
| Band edge compliance | 15.407 | P |
| Transmitter Spurious Emission - Radiated | 15.407 | P |
| AC Powerline Conducted Emission | 15.407 | P |

Note: Please refer to section 6 for detail; please refer to Annex A in this test report for the detailed test results.

The following terms are used in the above table.

| | |
|----|--|
| P | Pass, the EUT complies with the essential requirements in the standard. |
| NP | Not Perform, the test was not performed by ECIT. |
| NA | Not Applicable, the test was not applicable. |
| F | Fail, the EUT does not comply with the essential requirements in the standard. |

Test Conditions

| | |
|------|--------------------|
| Tnom | Normal Temperature |
| Tmin | Low Temperature |
| Tmax | High Temperature |
| Vnom | Normal Voltage |
| Vmin | Low Voltage |
| Vmax | High Voltage |
| Hnom | Norm Humidity |
| Anom | Norm Air Pressure |

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

| | | |
|--------------|------|---------|
| Temperature | Tnom | 25°C |
| Voltage | Vnom | 3.80V |
| Humidity | Hnom | 48% |
| Air Pressure | Anom | 1010hPa |

5.2. Statements

The MobiWire Sora |H5024, Smart E11 (H5024) is a variant model for testing.
ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

In this report, we only retest the radiation emission. And the conduct test results please refer to report No: I19D00035-SRD07-5.8GWLAN, which was prepared by East China Institute of Telecommunications.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Test Equipments Utilized

6.1. Radiated Emission Test System

| Item | Instrument Name | Type | Serial Number | Manufacturer | Cal. Date | Cal. interval |
|------|--------------------------------------|----------|---------------|--------------|------------|---------------|
| 1 | Universal Radio Communication Tester | CMU200 | 123123 | R&S | 2020-05-10 | 1 year |
| 2 | EMI Test Receiver | ESU40 | 100307 | R&S | 2020-05-10 | 1 year |
| 3 | TRILOG Broadband Antenna | VULB9163 | VULB9163-515 | Schwarzbeck | 2020-02-28 | 2 years |
| 4 | Double- ridged Waveguide Antenna | ETS-3117 | 00135890 | ETS | 2020-02-28 | 2 years |
| 5 | 2-Line V-Network | ENV216 | 101380 | R&S | 2020-05-10 | 1 year |
| 6 | Loop Antenna | AL-130R | 121083 | COM-POWER | 2019-12-26 | 3 years |

6.2. AC Conducted Emission Test System

| Item | Instrument Name | Type | SN | Manufacturer | Cal. Date | Cal. interval |
|------|--------------------------------------|--------|--------|--------------|------------|---------------|
| 1 | Universal Radio Communication Tester | CMU200 | 123101 | R&S | 2020-05-10 | 1 year |
| 2 | Test Receiver | ESCI | 101235 | R&S | 2020-05-10 | 1 year |
| 3 | 2-Line V-Network | ENV216 | 101380 | R&S | 2020-05-10 | 1 year |

Anechoic chamber

Fully anechoic chamber by ETS.

7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents. The detailed measurement uncertainty is defined in ECIT documents.

| Measurement Items | Range | Confidence Level | Calculated Uncertainty |
|--|--------------------|------------------|------------------------|
| Peak Output Power-Conducted | 5100MHz-5850MHz | 95% | $\pm 1.024\text{dB}$ |
| Peak Power Spectral Density | 5100MHz-5850MHz | 95% | $\pm 1.024\text{dB}$ |
| Occupied 6dB Bandwidth | 5100MHz-5850MHz | 95% | $\pm 62.04\text{Hz}$ |
| Frequency Band Edges-Conducted | 5100MHz-5850MHz | 95% | $\pm 1.024\text{dB}$ |
| Conducted Emission | 30MHz-2GHz | 95% | $\pm 0.90\text{dB}$ |
| Conducted Emission | 2GHz-3.6GHz | 95% | $\pm 0.88\text{dB}$ |
| Conducted Emission | 3.6GHz-8GHz | 95% | $\pm 0.96\text{dB}$ |
| Conducted Emission | 8GHz-20GHz | 95% | $\pm 0.94\text{dB}$ |
| Conducted Emission | 20GHz-22GHz | 95% | $\pm 0.88\text{dB}$ |
| Conducted Emission | 22GHz-26GHz | 95% | $\pm 0.86\text{dB}$ |
| Transmitter Spurious Emission-Radiated | 9KHz-30MHz | 95% | $\pm 5.66\text{dB}$ |
| Transmitter Spurious Emission-Radiated | 30MHz-1000MHz | 95% | $\pm 4.98\text{dB}$ |
| Transmitter Spurious Emission-Radiated | 1000MHz -18000MHz | 95% | $\pm 5.06\text{dB}$ |
| Transmitter Spurious Emission-Radiated | 18000MHz -40000MHz | 95% | $\pm 5.20\text{dB}$ |
| AC Power line Conducted Emission | 0.15MHz-30MHz | 95% | $\pm 3.66\text{ dB}$ |

8. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

| | |
|--------------------------|----------------------------|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | > 100 dB |
| Ground system resistance | < 0.5 Ω |

Control room did not exceed following limits along the EMC testing:

| | |
|--------------------------|----------------------------|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. =30 %, Max. = 60 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

| | |
|------------------------------|--|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 25 %, Max. = 75 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |
| VSWR | Between 0 and 6 dB, from 1GHz to 18GHz |
| Site Attenuation Deviation | Between -4 and 4 dB,30MHz to 1GHz |
| Uniformity of field strength | Between 0 and 6 dB, from 80MHz to 3000 MHz |

ANNEX A. Detailed Test Results

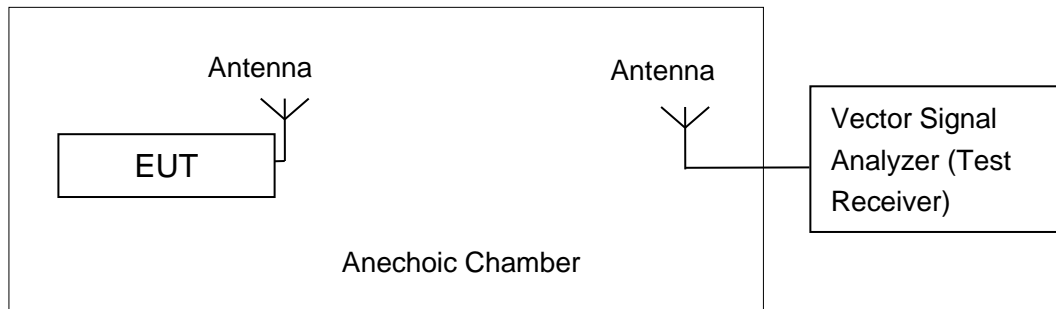
ANNEX A.1. Measurement Method

A.1.1. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.10.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

ANNEX A.2. Transmitter Spurious Emission

Measurement Limit:

| Standard | Frequency (MHz) | Limit (dBm/MHz) |
|------------------------|-----------------|-----------------|
| FCC 47 CFR Part 15.407 | 5725MHz~5850MHz | < -27 |

The measurement is made according to ANSI C63.10.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

| Frequency of emission (MHz) | Field strength(μ V/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------------|------------------------|
| 0.009-0.490 | 2400/F(kHz) | / |
| 0.490-1.705 | 24000/F(kHz) | / |
| 1.705-30 | 30 | / |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

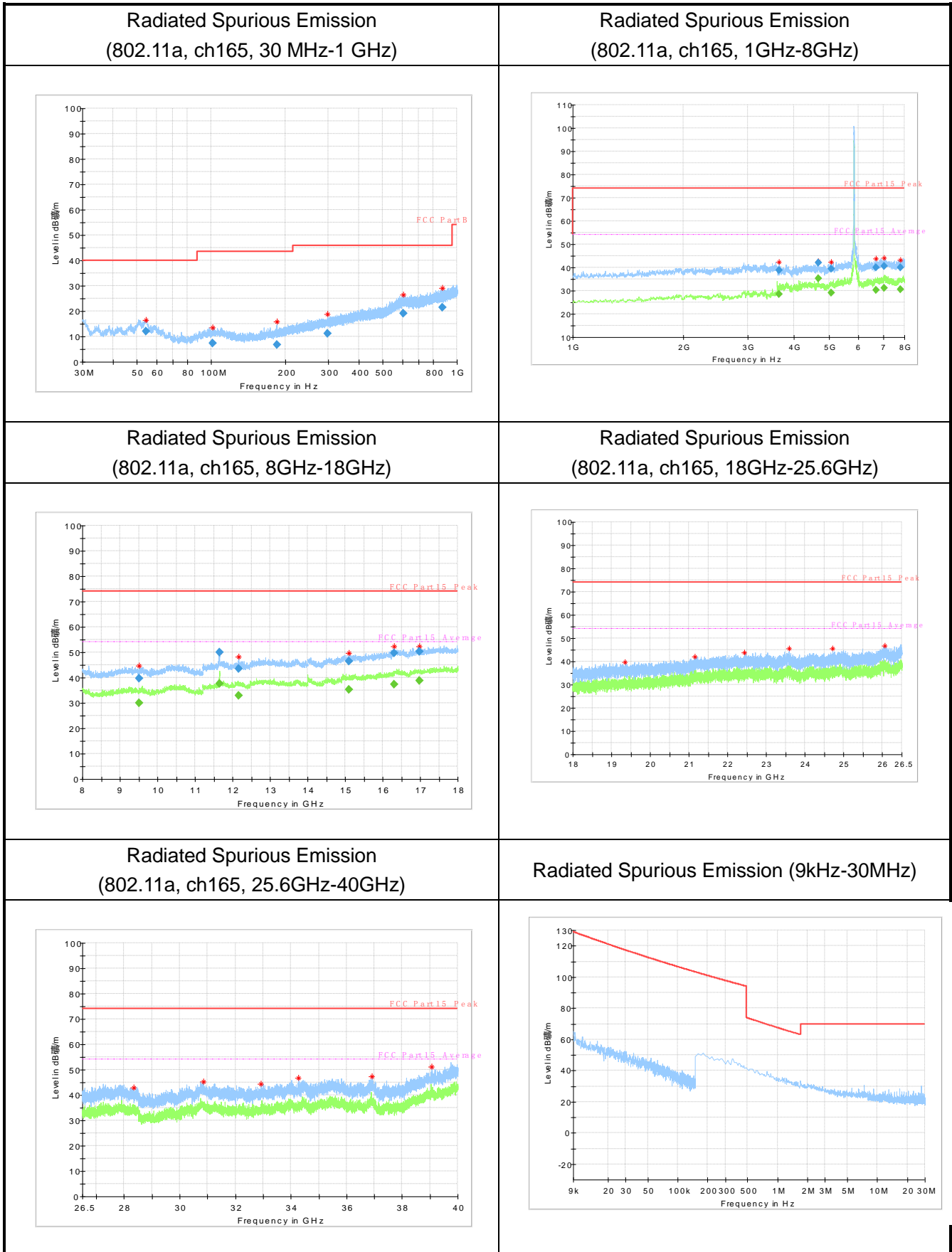
A.5.2 Transmitter Spurious Emission - Radiated

Modulation type and data rate tested (Only worst case result is given below):

| Mode | Data rate | Channel |
|---------|-----------|--------------|
| 802.11a | 6Mbps | 165(5825MHz) |

Measurement Uncertainty:

| Frequency Range | Uncertainty(dB) |
|----------------------|-----------------|
| $f \leq 1\text{GHz}$ | 3.9 |
| $f > 1\text{GHz}$ | 4.3 |

Measurement Results:


Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

RSE-11A-CH165-30M-1G-N03

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 54.4 | 12.15 | -15.4 | 27.55 | V |
| 101.7 | 7.32 | -15.9 | 23.22 | V |
| 185.9 | 6.84 | -15.7 | 22.54 | V |
| 298.6 | 11.25 | -11.5 | 22.75 | H |
| 607.2 | 19.23 | -2.9 | 22.13 | V |
| 874.9 | 21.48 | -1.1 | 22.58 | H |

RSE-11A-CH165-1G-8G-N03

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 3644.0 | 38.87 | 1.4 | 37.47 | V |
| 4660.0 | 42.07 | 2.2 | 39.87 | V |
| 5055.4 | 39.37 | 6.1 | 33.27 | V |
| 6681.2 | 40.06 | 4.5 | 35.56 | H |
| 7053.6 | 40.69 | 5 | 35.69 | H |
| 7791.6 | 40.13 | 4.8 | 35.33 | V |

RSE-11A-CH165-8G-18G-N03

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 9514.4 | 39.65 | 6.1 | 33.55 | H |
| 11651.0 | 50 | 10.4 | 39.6 | V |
| 12159.0 | 43.51 | 11.1 | 32.41 | V |
| 15093.0 | 46.49 | 14.4 | 32.09 | H |
| 16311.4 | 49.71 | 17.3 | 32.41 | V |
| 16973.0 | 50.38 | 18.2 | 32.18 | V |

RSE-11A-CH165-18G-26.5G-N03

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 19351.5 | 39.81 | -5.7 | 45.51 | H |
| 21157.8 | 42.19 | -4.1 | 46.29 | V |
| 22437.8 | 43.75 | -3.3 | 47.05 | V |
| 23592.2 | 45.54 | -2.8 | 48.34 | V |
| 24705.6 | 45.58 | -2.3 | 47.88 | H |
| 26066.5 | 46.87 | -2 | 48.87 | V |

RSE-11A-CH165-26.5G-40G-N03

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 28342.8 | 42.88 | -0.9 | 43.78 | V |
| 30841.6 | 45.22 | 0.3 | 44.92 | H |
| 32912.5 | 44.39 | 0.9 | 43.49 | H |
| 34272.0 | 46.68 | 1.7 | 44.98 | H |
| 36916.6 | 47.27 | 1.8 | 45.47 | V |
| 39076.6 | 51.17 | 4.3 | 46.87 | V |

Note: the EUT was displayed in several different direction, the worst cases were shown.

ANNEX A.3. Band Edges Compliance

Band Edges - Radiated

Measurement Limit:

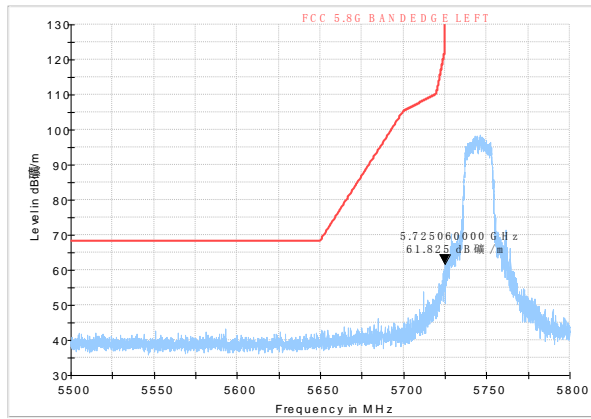
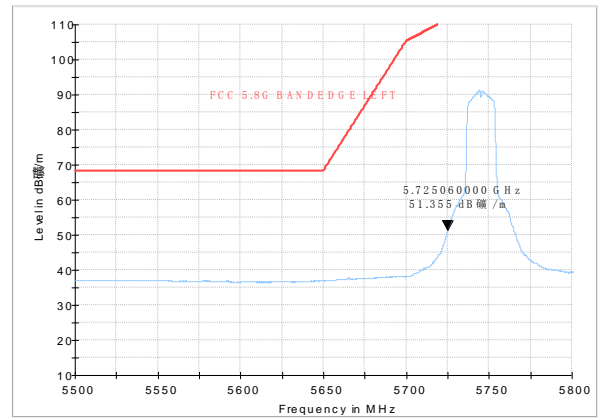
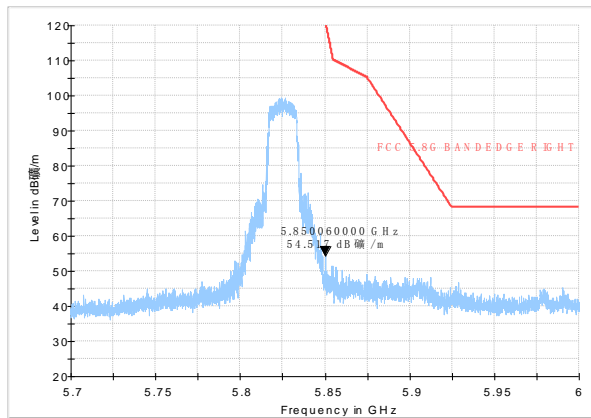
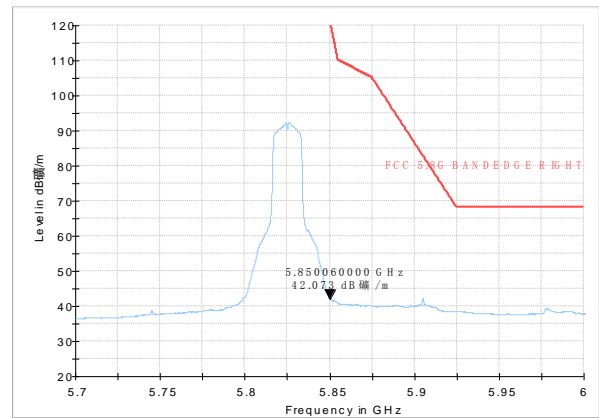
- (1) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

| Frequency (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 |

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 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 | | | |

Set the spectrum analyzer in the following:

- (a) Sweep mode: SweepAnalyzer6db.
- (b) PEAK: RBW=1MHz / VBW=3MHz / Sweep=2.5ms, Sweep point;5001
- (c) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=2.5ms, Sweep point;5001

Measurement Result:
Band Edges (802.11a, 5745MHz)
Peak detector

AV detector

Band Edges (802.11a, 5825MHz)
Peak detector

AV detector


ANNEX A.4. AC Powerline Conducted Emission

Test Condition:

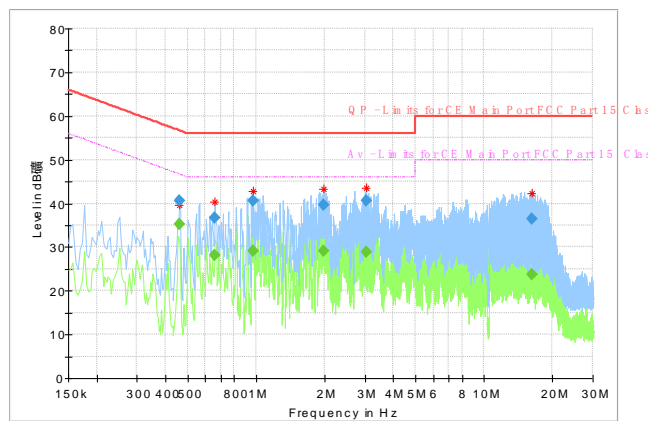
| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120 | 60 |

Measurement Result and limit:

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB μ V) | Conclusion |
|-----------------------|-------------------------------|------------|
| 0.15 to 0.5 | 66 to 56 | P |
| 0.5 to 5 | 56 | |
| 5 to 30 | 60 | |

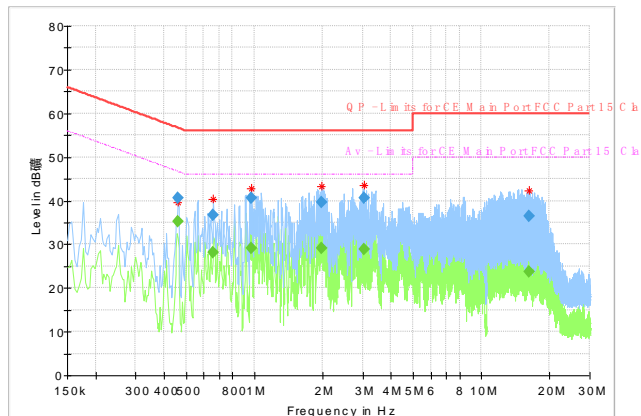
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.



WLAN (Average Limit)

| Frequency range (MHz) | Average Limit (dB μ V) | Conclusion |
|-----------------------|----------------------------|------------|
| 0.15 to 0.5 | 56 to 46 | P |
| 0.5 to 5 | 46 | |
| 5 to 30 | 50 | |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.



The measurement is made according to ANSI C63.10.

Measurement Result:

| Frequency (MHz) | QuasiPeak (dB μ V) | Average (dB μ V) | Limit (dB μ V) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------------|----------------------|--------------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.459694 | 40.63 | --- | 56.70 | 16.07 | 15000.0 | 9.000 | N | ON | 9.8 |
| 0.459694 | --- | 35.13 | 46.70 | 11.56 | 15000.0 | 9.000 | N | ON | 9.8 |
| 0.661181 | 36.66 | --- | 56.00 | 19.34 | 15000.0 | 9.000 | N | ON | 9.8 |
| 0.970875 | 40.51 | --- | 56.00 | 15.49 | 15000.0 | 9.000 | N | ON | 9.8 |
| 0.970875 | --- | 29.20 | 46.00 | 16.80 | 15000.0 | 9.000 | N | ON | 9.8 |
| 1.967119 | 39.74 | --- | 56.00 | 16.26 | 15000.0 | 9.000 | N | ON | 9.8 |
| 1.967119 | --- | 29.11 | 46.00 | 16.89 | 15000.0 | 9.000 | N | ON | 9.8 |
| 3.056644 | 40.50 | --- | 56.00 | 15.50 | 15000.0 | 9.000 | N | ON | 9.9 |
| 3.056644 | --- | 28.91 | 46.00 | 17.09 | 15000.0 | 9.000 | N | ON | 9.9 |
| 16.291388 | --- | 23.64 | 50.00 | 26.36 | 15000.0 | 9.000 | L1 | ON | 10.1 |
| 16.291388 | 36.55 | --- | 60.00 | 23.45 | 15000.0 | 9.000 | L1 | ON | 10.1 |

ANNEX B. Accreditation Certificate

Accredited Laboratory

A2LA has accredited

EAST CHINA INSTITUTE OF TELECOMMUNICATIONS
Shanghai, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-JLAC-JAF Communiqué dated April 2017).



Presented this 6th day of May 2019.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

*****END OF REPORT*****