



FCC TEST REPORT

FCC ID:2AL6KBL-M8852BS2

Report Number.....: **ZKT-2310248076E-3**

Date of Test..... Oct. 24, 2023 to Dec. 15, 2023

Date of issue.....: Dec. 15, 2023

Total number of pages..... 139

Test Result: PASS

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: **Shenzhen Bilian Electronic Co.,Ltd.**

Address: Room 501, Building 3, No. 32, Dafu Road, Zhangge Community, Fucheng Street, Longhua District, Shenzhen City

Manufacturer's name: **Shenzhen Bilian Electronic Co.,Ltd.**

Address: Room 501, Building 3, No. 32, Dafu Road, Zhangge Community, Fucheng Street, Longhua District, Shenzhen City

Test specification:

Standard.....: FCC CFR Title 47 Part 15 Subpart E Section 15.407
ANSI C63.10:2013
KDB 789033 D02 v02r01
662911 D01 Multiple Transmitter Output v02r01

Test procedure.....: /

Non-standard test method: N/A

Test Report Form No.....: /

Test Report Form(s) Originator.....: ZKT Testing

Master TRF: Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: **802.11a/b/g/n/ac/ax 1200Mbps WLAN + Bluetooth v5.2 Combo SDIO Module**

Trademark: N/A

Model/Type reference.....: BL-M8852BS2

Ratings.....: Input: 3.3V 1A



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**
Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Tested by (name + signature).....: Jim Liu 

Reviewer (name + signature).....: Jackson Fang 

Approved (name + signature).....: Lake Xie 



TABLE OF CONTENT

| Test Report Declaration | Page |
|---|-----------|
| 1. VERSION | 5 |
| 2. TEST SUMMARY | 6 |
| 3. MEASUREMENT UNCERTAINTY | 7 |
| 4. PRODUCT INFORMATION AND TEST SETUP | 8 |
| 4.1 Product Information | 8 |
| 4.2 Test Setup Configuration | 9 |
| 4.3 Support Equipment | 9 |
| 4.5 Test Mode | 11 |
| 4.6 Test Environment | 12 |
| 5. TEST FACILITY AND TEST INSTRUMENT USED | 13 |
| 6. AC POWER LINE CONDUCTED EMISSION | 15 |
| 6.1 Block Diagram Of Test Setup | 15 |
| 6.2 Limit | 15 |
| 6.3 Test procedure | 15 |
| 6.4 Test Result | 16 |
| 7. RADIATED SPURIOUS EMISSIONS | 18 |
| 7.1 Block Diagram Of Test Setup | 18 |
| 7.2 Limit | 18 |
| 7.3 Test procedure | 19 |
| 7.4 Test Result | 20 |
| 8. BAND EDGE | 27 |
| 8.1 Block Diagram Of Test Setup | 27 |
| 8.2 Limit | 27 |
| 8.3 Test procedure | 27 |
| 8.4 Test Result | 28 |
| 8.5.1 Test Requirement: | 44 |
| 8.5.2 TEST PROCEDURE | 44 |
| 8.5.3 DEVIATION FROM TEST STANDARD | 45 |
| 8.5.4 TEST SETUP | 45 |
| 8.5.5 EUT OPERATING CONDITIONS | 45 |
| 9. CONDUCTED PEAK OUTPUT POWER | 94 |
| 9.1 Block Diagram Of Test Setup | 94 |
| 9.2 Limit | 94 |
| 9.3 Test procedure | 95 |
| 9.4 Test Result | 96 |
| 10. EMISSION BANDWIDTH& OCCUPIED BANDWIDTH | 98 |
| 10.1 Block Diagram Of Test Setup | 98 |



| | | |
|------------|---|------------|
| 10.2 | Limits | 98 |
| 10.3 | Test Procedure | 98 |
| 10.4 | Test Results | 100 |
| 11. | POWER SPECTRAL DENSITY | 126 |
| 11.1 | Block Diagram Of Test Setup | 126 |
| 11.2 | Limit | 126 |
| 11.3 | Test procedure | 126 |
| 11.4 | Test Result | 128 |
| 12. | FREQUENCY STABILITY | 154 |
| 12.1 | Block Diagram Of Test Setup | 154 |
| 12.2 | Limit | 154 |
| 12.3 | Test procedure | 154 |
| 12.4 | Test Result | 155 |
| 13. | OPERATION IN THE ABSENCE OF INFORMATION TO THE TRANSMIT | 179 |
| 13.1 | Requirement | 179 |
| 13.2 | Test Results | 179 |
| 14.1 | Applied procedures / limit | 180 |
| 14.2 | DEVIATION FROM STANDARD | 180 |
| 14.3 | TEST SETUP | 180 |
| 15. | ANTENNA REQUIREMENT | 189 |

(Note: N/A means not applicable)



1. VERSION

| Report No. | Issue Date | Description | Approved |
|-------------------|---------------|-------------|----------|
| ZKT-2310248076E-3 | Dec. 15, 2023 | Original | Valid |



2. TEST SUMMARY

The Product has been tested according to the following specifications:

| Test Item | Test Requirement | Test method | Result |
|---|---|--------------------------|--------|
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart E Section 15.407 (b)(6) | ANSI C63.10-2013 | PASS |
| Radiated Spurious emissions | 47 CFR Part 15 Subpart E Section 15.205/15.407(b) | KDB789033 | PASS |
| Band edge | 47 CFR Part 15 Subpart E Section 15.205/15.407(b) | KDB789033 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15 Subpart E Section 15.407 (a) | KDB789033 | PASS |
| Emission Bandwidth & Occupied Bandwidth | 47 CFR Part 15 Subpart E Section 15.407 (a)(e) | KDB789033 | PASS |
| Power Spectral Density | 47 CFR Part 15 Subpart E Section 15.407 (a) | KDB789033 | PASS |
| Frequency stability | 47 CFR Part 15 Subpart E Section 15.407 (g) | KDB789033 | PASS |
| Operation in the absence of information to the transmit | 47 CFR Part 15 Subpart E Section 15.407 (b) | 47 CFR Part 15 Subpart E | PASS |
| Antenna Requirement | 47 CFR Part 15 Subpart E Section 15.203 | / | PASS |

Remark:

Test according to ANSI C63.10-2013.



3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Item | Uncertainty |
|--|-------------|
| Occupancy bandwidth | U=±54.3Hz |
| Adjacent channel power | U=±1.3dB |
| Conducted Adjacent channel power | U=±1.38dB |
| Conducted output power Above 1G | U=±1.0dB |
| Conducted output power below 1G | U=±0.9dB |
| Power Spectral Density , Conduction | U=±1.0dB |
| Conduction spurious emissions | U=±2.8dB |
| Out of band emission | U=±54Hz |
| 3m chamber Radiated spurious emission(9KHz-30MHz) | U=±4.8dB |
| 3m chamber Radiated spurious emission(30MHz-1GHz) | U=±4.3dB |
| 3m chamber Radiated spurious emission(1GHz-18GHz) | U=±4.5dB |
| 3m chamber Radiated spurious emission(18GHz-40GHz) | U=±3.4dB |
| humidity uncertainty | U=±5.3% |
| Temperature uncertainty | U=±0.59°C |
| Supply voltages | U=±3% |
| Time | U=±5% |
| Conducted emission(150K-30MHz) | 3.2dB |



4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

| | |
|-----------------------|---|
| Model(s): | BL-M8852BS2 |
| Model Description: | N/A |
| Wi-Fi Specification: | IEEE 802.11a/n/ac/ax |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Operation Frequency: | IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac/ax(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz/ 4 channel IEEE802.11n/ac(40M): 5250MHz ~5350 MHz/ 2 channel IEEE802.11ac/ax(80M): 5250MHz ~5350 MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5470MHz ~5725 MHz/ 11 channel IEEE802.11n/ac(40M): 5470MHz ~5725 MHz/ 5 channel IEEE802.11ac/ax(80M): 5470MHz ~5725 MHz/ 2 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac/ax(80M): 5725MHz ~5850MHz/ channel |
| Max. RF output power: | WiFi (5G): 17.838dBm |
| Type of Modulation: | WiFi (5G):, OFDM/OFDMA, DSSS, OFDM, CCK WiFi (5G): |
| Antenna installation: | 802.11a: External Antenna 1: 2.0dBi 802.11a: External Antenna 2: 2.0dBi |
| Antenna Gain: | The 5G WIFI , 802.11n20, 802.11n40, 802.11n80, 802.11ax80 can MIMO model, then the antenna gain as below: Directional gain=2.0dBi+10×log(1+1)dB=5.01dBi |
| Ratings: | Input: 3.3V 1A |



4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|---|-----------|----------------|------------|-----------|
| E-1 | 802.11a/b/g/n/ac/ax 1200Mbps WLAN + Bluetooth v5.2 Combo SDIO Module | N/A | BL-M8852BS2 | See page 8 | EUT |
| A-2 | PC | N/A | ZKT-2 | N/A | Ancillary |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.4 Channel List

| For 802.11a/n/ac/ax(20M) Operation in the 5150MHz ~5250 MHz band | | | |
|---|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 36 | 5180MHz | 44 | 5220MHz |
| 40 | 5200MHz | 48 | 5240MHz |
| For 802.11a/n/ac/ax(20M) Operation in the 5250MHz ~5350 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 52 | 5260MHz | 60 | 5300MHz |
| 56 | 5280MHz | 64 | 5320MHz |
| For 802.11a/n/ac/ax(20M) Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 100 | 5500MHz | 124 | 5620 MHz |
| 104 | 5520MHz | 128 | 5640 MHz |
| 108 | 5540MHz | 132 | 5660 MHz |
| 112 | 5560MHz | 136 | 5680MHz |
| 116 | 5580MHz | 140 | 5700MHz |
| 120 | 5600 MHz | | |
| For 802.11a/n/ac/ax(20M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 149 | 5745MHz | 161 | 5805MHz |
| 153 | 5765MHz | 165 | 5825MHz |
| 157 | 5785MHz | NA | NA |

| For 802.11n/ac/ax(40M) Operation in the 5150MHz ~5250 MHz band | | | |
|--|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 38 | 5190MHz | 46 | 5230MHz |
| For 802.11n/ac/ax(40M) Operation in the 5250MHz ~5350 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 54 | 5270MHz | 62 | 5310MHz |
| For 802.11n/ac/ax(40M) Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 102 | 5510MHz | 126 | 5630MHz |
| 110 | 5550MHz | 134 | 5670MHz |
| 118 | 5590MHz | | |
| For 802.11n/ac/ax(40M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 151 | 5755MHz | 159 | 5795MHz |

| For 802.11ac/ax(80M) Operation in the 5150MHz ~5250 MHz band | | | |
|--|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 42 | 5210MHz | NA | NA |
| For 802.11ac/ax(80M) Operation in the 5250MHz ~5350 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 58 | 5290MHz | NA | NA |
| For 802.11ac/ax(80M) Operation in the 5470MHz ~5725 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 106 | 5530MHz | 122 | 5610 MHz |
| For 802.11ac/ax(80M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 155 | 5775MHz | NA | NA |



| | |
|--------------|------|
| Test mode | rate |
| 802.11a | 54M |
| 802.11n | 500M |
| 802.11/ac/ax | 500M |

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

| Test Mode | Tx/Rx | RF Channel | | |
|----------------------|-------------------|-------------|-------------|-------------|
| | | Low(L) | Middle(M) | High(H) |
| 802.11a/n/ac/ax(20M) | 5150MHz ~5250 MHz | Channel 36 | Channel 40 | Channel 48 |
| | | 5180MHz | 5200MHz | 5240MHz |
| Channel 38 | | N/A | Channel 46 | |
| 5190MHz | | N/A | 5230MHz | |
| N/A | | Channel 42 | N/A | |
| N/A | | 5210MHz | N/A | |
| 802.11n/ac/ax(40M) | 5250MHz ~5350 MHz | Channel 52 | Channel 56 | Channel 64 |
| | | 5260MHz | 5280MHz | 5320MHz |
| Channel 54 | | N/A | Channel 62 | |
| 5270MHz | | N/A | 5310MHz | |
| N/A | | Channel 58 | N/A | |
| N/A | | 5290MHz | N/A | |
| 802.11ac/ax(80M) | 5470MHz ~5725 MHz | Channel 100 | Channel 116 | Channel 140 |
| | | 5500MHz | 5580MHz | 5700MHz |
| Channel 102 | | N/A | Channel 134 | |
| 5510MHz | | N/A | 5670MHz | |
| Channel 106 | | N/A | Channel 122 | |
| 5530MHz | | N/A | 5610MHz | |
| 802.11a/n/ac/ax(20M) | 5725MHz ~5850 MHz | Channel 149 | Channel 157 | Channel 165 |
| | | 5745MHz | 5785MHz | 5825MHz |
| Channel 151 | | N/A | Channel 159 | |
| 5755MHz | | N/A | 5795MHz | |
| N/A | | Channel 155 | N/A | |
| N/A | | 5775MHz | N/A | |



4.6 Test Environment

| | |
|----------------------------|------|
| Humidity(%): | 54 |
| Atmospheric Pressure(kPa): | 101 |
| Normal Voltage(DC): | 3.3V |
| Normal Temperature(°C):NT | 23 |
| Low Temperature(°C):LT | 0 |
| High Temperature(°C):HT | 40 |



5. TEST FACILITY AND TEST INSTRUMENT USED

5.1

Conducted emissions Test

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|------|---------------------|--------------|----------|-------------------|------------------|------------------|------------------|
| 1 | LISN | R&S | ENV216 | 101471 | N/A | Nov. 14, 2023 | Nov. 13, 2024 |
| 2 | LISN | CYBERTEK | EM5040A | E1850400149 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 3 | Test Cable | N/A | C-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 4 | Test Cable | N/A | C-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 5 | Test Cable | N/A | C-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 6 | EMI Test Receiver | R&S | ESCI3 | 101393 | 4.42 SP3 | Nov. 02, 2023 | Nov. 01, 2024 |
| 7 | Triple-Loop Antenna | N/A | RF300 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 8 | Absorbing Clamp | DZ | ZN23201 | 15034 | N/A | Nov. 07, 2023 | Nov. 06, 2024 |
| 9 | EMC Software | Frad | EZ-EMC | Ver.EMC-CON 3A1.1 | N/A | \ | \ |

Radiation emissions& Radio Test equipment

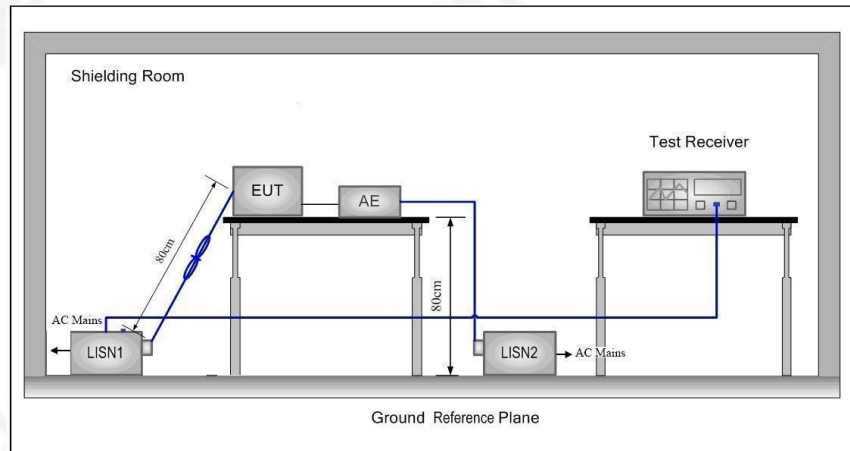
| Item | Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|------|-----------------------------------|----------------|-----------------|------------|------------------|------------------|------------------|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | 9020A | MY55370835 | A.17.05 | Nov. 02, 2023 | Nov. 01, 2024 |
| 2 | Spectrum Analyzer (10kHz-39.9GHz) | R&S | FSV40-N | 100363 | 1.71 SP2 | Nov. 02, 2023 | Nov. 01, 2024 |
| 3 | EMI Test Receiver (9kHz-7GHz) | R&S | ESCI7 | 100969 | 4.32 | Nov. 02, 2023 | Nov. 01, 2024 |
| 4 | Bilog Antenna (30MHz-1500MHz) | Schwarzbeck | VULB9168 | N/A | N/A | Nov. 13, 2023 | Nov. 12, 2024 |
| 5 | Horn Antenna (1GHz-18GHz) | Agilent | AH-118 | 071145 | N/A | Nov. 13, 2023 | Nov. 12, 2024 |
| 6 | Horn Antenna (15GHz-40GHz) | A.H.System | SAS-574 | 588 | N/A | Nov. 13, 2023 | Nov. 12, 2024 |
| 7 | Loop Antenna | TESEQ | HLA6121 | 58357 | N/A | Nov. 16, 2023 | Nov. 15, 2024 |
| 8 | Amplifier (30-1000MHz) | EM Electronics | EM330 Amplifier | 60747 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 9 | Amplifier (1GHz-26.5GHz) | HuiPu | 8449B | 3008A00315 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 10 | Amplifier (500MHz-40GHz) | QuanJuDa | DLE-161 | 097 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 11 | Test Cable | N/A | R-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 12 | Test Cable | N/A | R-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 13 | Test Cable | N/A | R-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 14 | Test Cable | N/A | RF-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |



| | | | | | | | |
|----|-----------------------------------|----------|-------------|--------------------|----------|---------------|---------------|
| 15 | Test Cable | N/A | RF-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 16 | Test Cable | N/A | RF-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 17 | ESG Signal Generator | Agilent | E4421B | N/A | B.03.84 | Nov. 02, 2023 | Nov. 01, 2024 |
| 18 | Signal Generator | Agilent | N5182A | N/A | A.01.87 | Nov. 02, 2023 | Nov. 01, 2024 |
| 19 | Magnetic Field Probe Tester | Narda | ELT-400 | 0-0344 | N/A | Nov. 16, 2023 | Nov. 15, 2024 |
| 20 | Wideband Radio Communication Test | R&S | CMW500 | 106504 | V 3.7.22 | Nov. 02, 2023 | Nov. 01, 2024 |
| 21 | MWRF Power Meter Test system | MW | MW100-RF CB | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 22 | Power Meter | KEYSIGHT | N1912A P | N/A | A.05.00 | Nov. 02, 2023 | Nov. 01, 2024 |
| 23 | D.C. Power Supply | LongWei | TPR-6405D | N/A | N/A | \ | \ |
| 24 | EMC Software | Frad | EZ-EMC | Ver.EMC-CO N 3A1.1 | N/A | \ | \ |
| 25 | RF Software | MW | MTS8310 | V2.0.0.0 | N/A | \ | \ |
| 26 | Turntable | MF | MF-7802BS | N/A | N/A | \ | \ |
| 23 | Antenna tower | MF | MF-7802BS | N/A | N/A | \ | \ |

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

| Table 4 – AC power-line conducted emissions limits | | |
|--|------------------------------|----------------------------|
| Frequency (MHz) | Conducted limit (dB μ V) | |
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 ^{Note 1} | 56 to 46 ^{Note 1} |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

Note 1: The level decreases linearly with the logarithm of the frequency.

* Decreasing linearly with the logarithm of the frequency

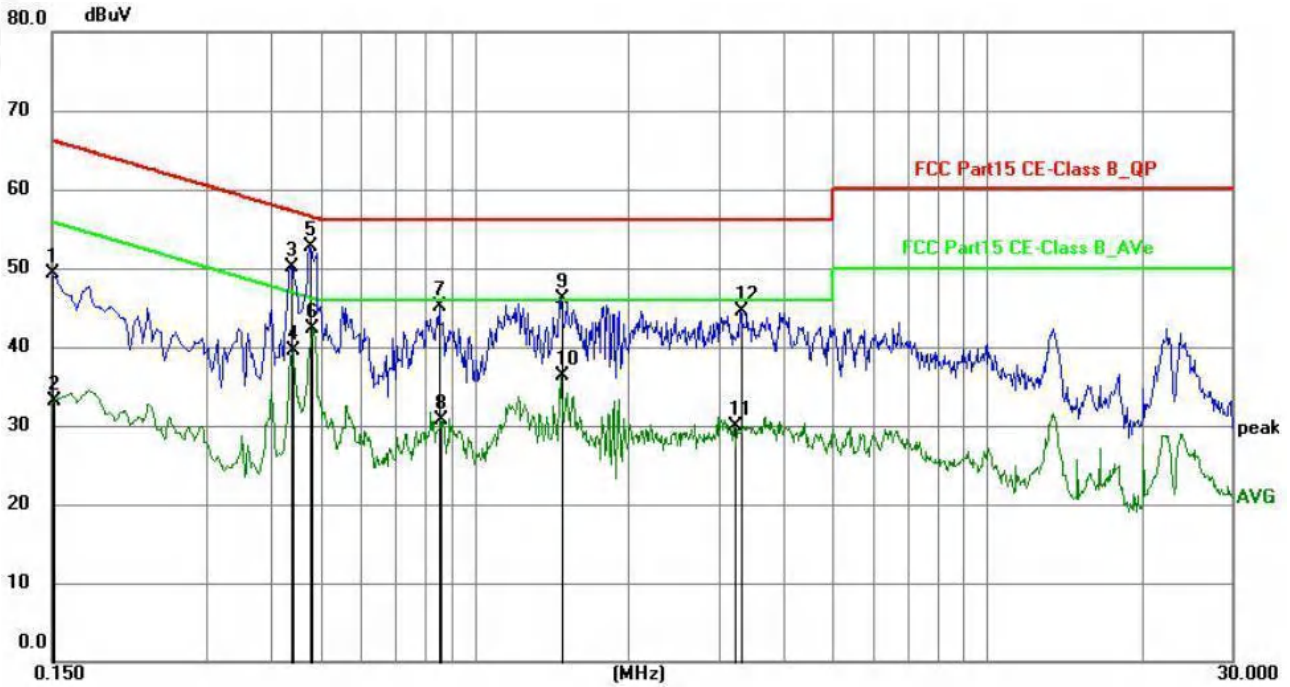
6.3 Test procedure

- 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 50 Ω /50 μ H + 5 Ω 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 was 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.



6.4 Test Result

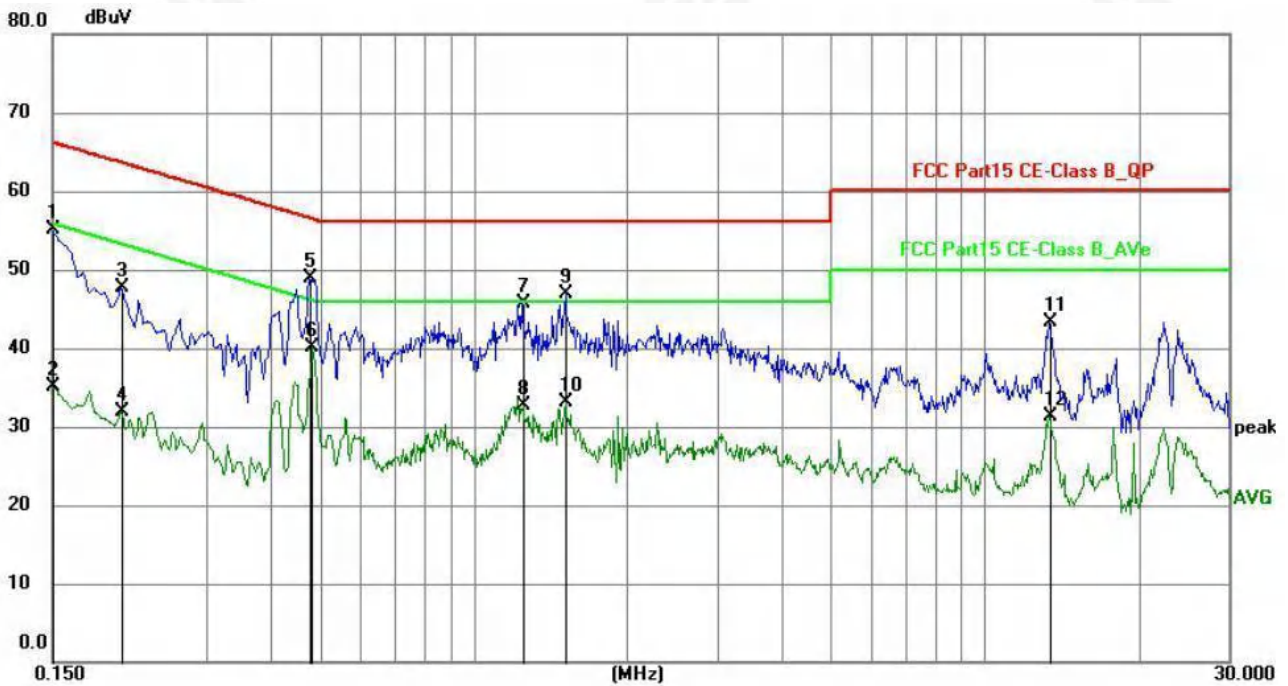
| | | | |
|---------------|--------------|--------------------|----------------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | L |
| Test Voltage: | AC 120V/60Hz | Test Mode : | 802.11a TX - 5180MHz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 | 0.1500 | 28.88 | 20.48 | 49.36 | 66.00 | -16.64 | QP | P | |
| 2 | 0.1515 | 12.60 | 20.49 | 33.09 | 55.92 | -22.83 | AVG | P | |
| 3 | 0.4380 | 29.54 | 20.57 | 50.11 | 57.10 | -6.99 | QP | P | |
| 4 | 0.4425 | 19.01 | 20.57 | 39.58 | 47.01 | -7.43 | AVG | P | |
| 5 | 0.4785 | 32.13 | 20.56 | 52.69 | 56.37 | -3.68 | QP | P | |
| 6 | 0.4830 | 21.80 | 20.55 | 42.35 | 46.29 | -3.94 | AVG | P | |
| 7 | 0.8564 | 24.32 | 20.69 | 45.01 | 56.00 | -10.99 | QP | P | |
| 8 | 0.8609 | 10.08 | 20.69 | 30.77 | 46.00 | -15.23 | AVG | P | |
| 9 | 1.4729 | 25.37 | 20.81 | 46.18 | 56.00 | -9.82 | QP | P | |
| 10 | 1.4729 | 15.51 | 20.81 | 36.32 | 46.00 | -9.68 | AVG | P | |
| 11 | 3.2145 | 9.20 | 20.79 | 29.99 | 46.00 | -16.01 | AVG | P | |
| 12 | 3.3090 | 23.70 | 20.79 | 44.49 | 56.00 | -11.51 | QP | P | |



| | | | |
|----------------|--------------|--------------------|----------------------|
| Temperature : | 26°C | Relative Humidity: | 54% |
| Pressure : | 101kPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode : | 802.11a TX - 5180MHz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 | 0.1500 | 34.57 | 20.58 | 55.15 | 66.00 | -10.85 | QP | P | |
| 2 | 0.1500 | 14.59 | 20.58 | 35.17 | 56.00 | -20.83 | AVG | P | |
| 3 | 0.2040 | 26.92 | 20.79 | 47.71 | 63.45 | -15.74 | QP | P | |
| 4 | 0.2040 | 11.17 | 20.79 | 31.96 | 53.45 | -21.49 | AVG | P | |
| 5 | 0.4785 | 28.21 | 20.70 | 48.91 | 56.37 | -7.46 | QP | P | |
| 6 | 0.4830 | 19.46 | 20.69 | 40.15 | 46.29 | -6.14 | AVG | P | |
| 7 | 1.2480 | 24.92 | 20.81 | 45.73 | 56.00 | -10.27 | QP | P | |
| 8 | 1.2525 | 11.79 | 20.82 | 32.61 | 46.00 | -13.39 | AVG | P | |
| 9 | 1.5135 | 26.18 | 20.82 | 47.00 | 56.00 | -9.00 | QP | P | |
| 10 | 1.5135 | 12.19 | 20.82 | 33.01 | 46.00 | -12.99 | AVG | P | |
| 11 | 13.3665 | 21.87 | 21.53 | 43.40 | 60.00 | -16.60 | QP | P | |
| 12 | 13.3665 | 9.70 | 21.53 | 31.23 | 50.00 | -18.77 | AVG | P | |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor.
4. The test data shows only the worst case ANT1 802.11aTX - 5180MHz.

7. RADIATED SPURIOUS EMISSIONS

7.1 Block Diagram Of Test Setup

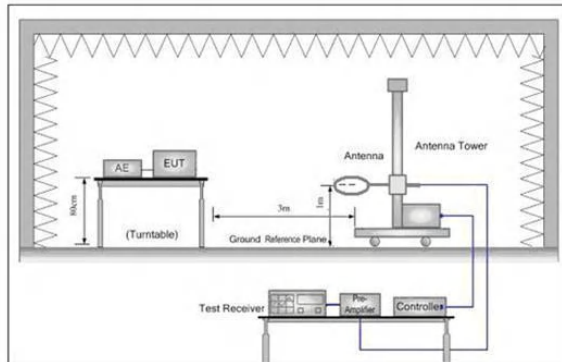


Figure 1. Below 30MHz

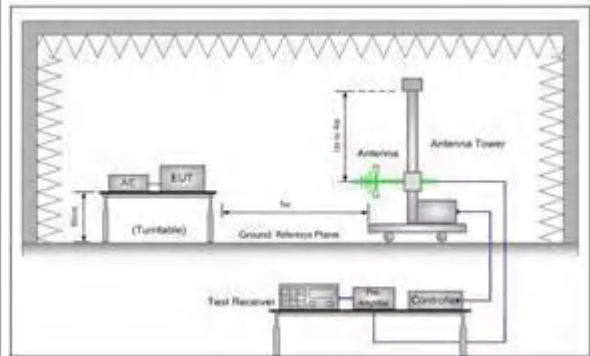


Figure 2. 30MHz to 1GHz

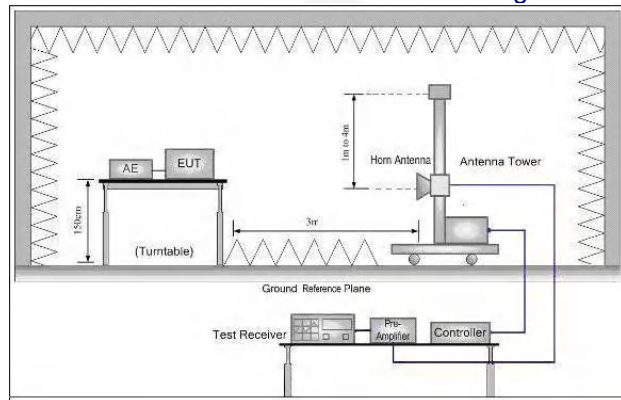


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

| Frequency | Field strength (dB μ V/m) | Remark | Measurement distance (m) |
|-------------------|-------------------------------|------------|--------------------------|
| 0.009MHz-0.490MHz | $20\log 2400/F$ (kHz) + 80 | Quasi-peak | 3 |
| 0.490MHz-1.705MHz | $20\log 24000/F$ (kHz) + 40 | Quasi-peak | 3 |
| 1.705MHz-30MHz | $20\log 30$ + 40 | Quasi-peak | 3 |
| 30MHz-88MHz | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 54.0 | Average | 3 |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



If radiated measurements are performed, field strength is then converted to EIRP as follows:

(i) $EIRP = ((E*d)^2) / 30$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

(ii) Working in dB units, the above equation is equivalent to:

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$$

(iii) Or, if d is 3 meters:

$$EIRP[dBm] = E[dB\mu V/m] - 95.2$$

7.3 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 chamber. 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 rota table 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 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

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

Receiver set:

| Frequency | Detector | RBW | VBW | Remark |
|-------------------|------------|---------|--------|------------|
| 0.009MHz-0.090MHz | Peak | 10kHz | 30KHz | Peak |
| 0.009MHz-0.090MHz | Average | 10kHz | 30KHz | Average |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30KHz | Quasi-peak |
| 0.110MHz-0.490MHz | Peak | 10kHz | 30KHz | Peak |
| 0.110MHz-0.490MHz | Average | 10kHz | 30KHz | Average |
| 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120 kHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |



7.4 Test Result

30MHz-1GHz Test Results:
Modulation : 802.11a (the worst data)
Test Channel : 5780MHz
Antenna polarity: H



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | ! | 42.6000 | 40.55 | -6.51 | 34.04 | 40.00 | -5.96 | QP |
| 2 | | 97.1148 | 43.07 | -9.82 | 33.25 | 43.50 | -10.25 | QP |
| 3 | | 153.2000 | 40.70 | -5.46 | 35.24 | 43.50 | -8.26 | QP |
| 4 | | 374.6225 | 42.89 | -3.36 | 39.53 | 46.00 | -6.47 | QP |
| 5 | | 691.9864 | 34.19 | 3.75 | 37.94 | 46.00 | -8.06 | QP |
| 6 | * | 892.2907 | 34.02 | 6.96 | 40.98 | 46.00 | -5.02 | QP |



Antenna polarity: V



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | ! | 43.7351 | 42.10 | -6.53 | 35.57 | 40.00 | -4.43 | QP |
| 2 | | 85.8983 | 41.40 | -10.32 | 31.08 | 40.00 | -8.92 | QP |
| 3 | | 201.0399 | 45.57 | -9.40 | 36.17 | 43.50 | -7.33 | QP |
| 4 | | 298.2681 | 39.43 | -5.55 | 33.88 | 46.00 | -12.12 | QP |
| 5 | ! | 596.1770 | 39.80 | 2.36 | 42.16 | 46.00 | -3.84 | QP |
| 6 | * | 742.2586 | 37.71 | 4.67 | 42.38 | 46.00 | -3.62 | QP |

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

1. The margin of 9K-30MH measurement exceeds 20dB, so the test chart is not included. Test Mode: 802.11a20 (the worst)



Radiated Spurious Emission (Above 1GHz):

ANT 1

Modulation : 802.11(a) (the worst data)

| Freq (MHz) | Rd_level (dBuV/m) | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | detector | Height | Degree | Antenna polarization |
|-----------------|-------------------|-------------|----------------|----------------|-----------|----------|--------|--------|----------------------|
| Channel:5180MHz | | | | | | | | | |
| 10360 | 40.47 | 16.39 | 56.86 | 74 | -17.14 | PK | 1.14 | 18 | H |
| 10360 | 26.30 | 16.39 | 42.69 | 54 | -11.31 | AV | 1.50 | 274 | H |
| 10360 | 39.29 | 16.39 | 55.68 | 74 | -18.32 | PK | 1.03 | 240 | V |
| 10360 | 25.27 | 16.39 | 41.66 | 54 | -12.34 | AV | 1.04 | 161 | V |
| Channel:5240MHz | | | | | | | | | |
| 10480 | 40.47 | 16.11 | 56.58 | 74 | -17.42 | PK | 1.29 | 359 | H |
| 10480 | 25.60 | 16.11 | 41.71 | 54 | -12.29 | AV | 1.14 | 20 | H |
| 10480 | 39.99 | 16.11 | 56.10 | 74 | -17.90 | PK | 1.22 | 45 | V |
| 10480 | 27.28 | 16.11 | 43.39 | 54 | -10.61 | AV | 1.19 | 277 | V |
| Channel:5260MHz | | | | | | | | | |
| 10520 | 40.66 | 16.39 | 57.05 | 74 | -16.95 | PK | 1.25 | 309 | H |
| 10520 | 25.96 | 16.39 | 42.35 | 54 | -11.65 | AV | 1.58 | 261 | H |
| 10520 | 41.10 | 16.39 | 57.49 | 74 | -16.51 | PK | 1.14 | 227 | V |
| 10520 | 27.85 | 16.39 | 44.24 | 54 | -9.76 | AV | 1.04 | 120 | V |
| Channel:5320MHz | | | | | | | | | |
| 10640 | 41.02 | 16.39 | 57.41 | 74 | -16.59 | PK | 1.23 | 319 | H |
| 10640 | 27.88 | 16.39 | 44.27 | 54 | -9.73 | AV | 1.51 | 285 | H |
| 10640 | 40.38 | 16.39 | 56.77 | 74 | -17.23 | PK | 1.52 | 145 | V |
| 10640 | 26.92 | 16.39 | 43.31 | 54 | -10.69 | AV | 1.28 | 56 | V |
| Channel:5500MHz | | | | | | | | | |
| 11000 | 40.47 | 16.39 | 56.86 | 74 | -17.14 | PK | 1.34 | 218 | H |
| 11000 | 27.14 | 16.39 | 43.53 | 54 | -10.47 | AV | 1.02 | 247 | H |
| 11000 | 39.38 | 16.39 | 55.77 | 74 | -18.23 | PK | 1.06 | 246 | V |
| 11000 | 27.44 | 16.39 | 43.83 | 54 | -10.17 | AV | 1.45 | 100 | V |



| Channel:5700MHz | | | | | | | | | |
|-----------------|-------|-------|-------|----|--------|----|------|-----|---|
| 11400 | 39.76 | 16.39 | 56.15 | 74 | -17.85 | PK | 1.32 | 284 | H |
| 11400 | 25.27 | 16.39 | 41.66 | 54 | -12.34 | AV | 1.01 | 205 | H |
| 11400 | 40.68 | 16.39 | 57.07 | 74 | -16.93 | PK | 1.04 | 283 | V |
| 11400 | 25.64 | 16.39 | 42.03 | 54 | -11.97 | AV | 1.20 | 238 | V |
| Channel:5745MHz | | | | | | | | | |
| 11490 | 39.90 | 17.46 | 57.36 | 74 | -16.64 | PK | 1.90 | 120 | H |
| 11490 | 25.05 | 17.46 | 42.51 | 54 | -11.49 | AV | 1.36 | 316 | H |
| 11490 | 39.48 | 17.46 | 56.94 | 74 | -17.06 | PK | 1.07 | 272 | V |
| 11490 | 25.61 | 17.46 | 43.07 | 54 | -10.93 | AV | 1.23 | 99 | V |
| Channel:5825MHz | | | | | | | | | |
| 11650 | 41.05 | 17.57 | 58.62 | 74 | -15.38 | PK | 1.51 | 134 | H |
| 11650 | 25.93 | 17.57 | 43.50 | 54 | -10.50 | AV | 1.80 | 215 | H |
| 11650 | 41.97 | 17.57 | 59.54 | 74 | -14.46 | PK | 1.26 | 89 | V |
| 11650 | 27.17 | 17.57 | 44.74 | 54 | -9.26 | AV | 1.19 | 106 | V |

The test data shows only the worst case ANT1.



Modulation : 802.11(n40) (the worst data)

ANT 1+ANT2

| Freq (MHz) | Rd_level (dBuV/m) | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | detector | Height | Degree | Antenna polarization |
|-----------------|-------------------|-------------|----------------|----------------|-----------|----------|--------|--------|----------------------|
| Channel:5190MHz | | | | | | | | | |
| 10380 | 39.29 | 16.34 | 55.63 | 74 | -18.37 | PK | 1.29 | 60 | H |
| 10380 | 26.40 | 16.34 | 42.74 | 54 | -11.26 | AV | 1.05 | 9 | H |
| 10380 | 41.97 | 16.34 | 58.31 | 74 | -15.69 | PK | 1.42 | 169 | V |
| 10380 | 25.90 | 16.34 | 42.24 | 54 | -11.76 | AV | 1.53 | 104 | V |
| Channel:5230MHz | | | | | | | | | |
| 10460 | 39.86 | 16.15 | 56.01 | 74 | -17.99 | PK | 1.09 | 46 | H |
| 10460 | 25.44 | 16.15 | 41.59 | 54 | -12.41 | AV | 1.86 | 223 | H |
| 10460 | 40.42 | 16.15 | 56.57 | 74 | -17.43 | PK | 1.38 | 339 | V |
| 10460 | 27.38 | 16.15 | 43.53 | 54 | -10.47 | AV | 1.54 | 355 | V |

| | | | | | | | | | |
|-----------------|-------|-------|-------|----|--------|----|------|-----|---|
| Channel:5270MHz | | | | | | | | | |
| 10540 | 40.10 | 16.34 | 56.44 | 74 | -17.56 | PK | 1.85 | 37 | H |
| 10540 | 25.14 | 16.34 | 41.48 | 54 | -12.52 | AV | 1.61 | 252 | H |
| 10540 | 41.82 | 16.34 | 58.16 | 74 | -15.84 | PK | 1.15 | 207 | V |
| 10540 | 26.95 | 16.34 | 43.29 | 54 | -10.71 | AV | 1.52 | 271 | V |
| Channel:5310MHz | | | | | | | | | |
| 10620 | 40.53 | 16.34 | 56.87 | 74 | -17.13 | PK | 1.34 | 290 | H |
| 10620 | 27.43 | 16.34 | 43.77 | 54 | -10.23 | AV | 1.40 | 124 | H |
| 10620 | 40.04 | 16.34 | 56.38 | 74 | -17.62 | PK | 1.39 | 42 | V |
| 10620 | 26.10 | 16.34 | 42.44 | 54 | -11.56 | AV | 1.35 | 282 | V |
| Channel:5510MHz | | | | | | | | | |
| 11020 | 40.76 | 16.34 | 57.10 | 74 | -16.90 | PK | 1.55 | 101 | H |
| 11020 | 25.41 | 16.34 | 41.75 | 54 | -12.25 | AV | 1.29 | 96 | H |
| 11020 | 41.39 | 16.34 | 57.73 | 74 | -16.27 | PK | 1.46 | 215 | V |
| 11020 | 27.06 | 16.34 | 43.40 | 54 | -10.60 | AV | 1.14 | 112 | V |
| Channel:5670MHz | | | | | | | | | |
| 11340 | 39.60 | 16.34 | 55.94 | 74 | -18.06 | PK | 1.32 | 220 | H |
| 11340 | 25.79 | 16.34 | 42.13 | 54 | -11.87 | AV | 1.53 | 159 | H |
| 11340 | 39.12 | 16.34 | 55.46 | 74 | -18.54 | PK | 1.86 | 137 | V |



| | | | | | | | | | |
|-------|-------|-------|-------|----|--------|----|------|-----|---|
| 11340 | 25.83 | 16.34 | 42.17 | 54 | -11.83 | AV | 1.13 | 202 | V |
|-------|-------|-------|-------|----|--------|----|------|-----|---|

| Channel:5755MHz | | | | | | | | | |
|-----------------|-------|-------|-------|----|--------|----|------|-----|---|
| 11510 | 40.30 | 17.49 | 57.79 | 74 | -16.21 | PK | 1.81 | 187 | H |
| 11510 | 27.60 | 17.49 | 45.09 | 54 | -8.91 | AV | 1.53 | 306 | H |
| 11510 | 41.61 | 17.49 | 59.10 | 74 | -14.90 | PK | 1.11 | 137 | V |
| 11510 | 26.39 | 17.49 | 43.88 | 54 | -10.12 | AV | 1.81 | 155 | V |
| Channel:5795MHz | | | | | | | | | |
| 11590 | 40.83 | 17.52 | 58.35 | 74 | -17.69 | PK | 1.74 | 299 | H |
| 11590 | 25.15 | 17.52 | 42.67 | 54 | -15.65 | AV | 1.29 | 48 | H |
| 11590 | 39.53 | 17.52 | 57.05 | 74 | -16.95 | PK | 1.01 | 224 | V |
| 11590 | 26.28 | 17.52 | 43.80 | 54 | -10.20 | AV | 1.22 | 287 | V |



Modulation : 802.11(VH80) (the worst data)

| Freq (MHz) | Rd_level (dBuV/m) | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | detector | Height | Degree | Antenna polarization |
|-----------------|-------------------|-------------|----------------|----------------|-----------|----------|--------|--------|----------------------|
| Channel:5210MHz | | | | | | | | | |
| 10420 | 41.89 | 16.25 | 58.14 | 74 | -15.86 | PK | 1.82 | 241 | H |
| 10420 | 25.77 | 16.25 | 42.02 | 54 | -11.98 | AV | 1.80 | 31 | H |
| 10420 | 40.07 | 16.25 | 56.32 | 74 | -17.68 | PK | 1.80 | 88 | V |
| 10420 | 27.09 | 16.25 | 43.34 | 54 | -10.66 | AV | 1.69 | 244 | V |
| Channel:5290MHz | | | | | | | | | |
| 10580 | 41.49 | 16.25 | 57.74 | 74 | -16.26 | PK | 1.64 | 30 | H |
| 10580 | 27.81 | 16.25 | 44.06 | 54 | -9.94 | AV | 1.45 | 112 | H |
| 10580 | 41.25 | 16.25 | 57.50 | 74 | -16.50 | PK | 1.85 | 268 | V |
| 10580 | 27.66 | 16.25 | 43.91 | 54 | -10.09 | AV | 1.43 | 105 | V |
| Channel:5530MHz | | | | | | | | | |
| 11060 | 41.04 | 17.50 | 58.54 | 74 | -15.46 | PK | 1.90 | 292 | H |
| 11060 | 27.61 | 17.50 | 45.11 | 54 | -8.89 | AV | 1.61 | 171 | H |
| 11060 | 41.10 | 17.50 | 58.60 | 74 | -15.40 | PK | 1.63 | 197 | V |
| 11060 | 25.87 | 17.50 | 43.37 | 54 | -10.63 | AV | 1.64 | 97 | V |
| Channel:5775MHz | | | | | | | | | |
| 11550 | 41.53 | 17.50 | 59.03 | 74 | -14.97 | PK | 1.16 | 250 | H |
| 11550 | 26.91 | 17.50 | 44.41 | 54 | -9.59 | AV | 1.66 | 125 | H |
| 11550 | 41.01 | 17.50 | 58.51 | 74 | -15.49 | PK | 1.57 | 111 | V |
| 11550 | 26.91 | 17.50 | 44.41 | 54 | -9.59 | AV | 1.12 | 141 | V |

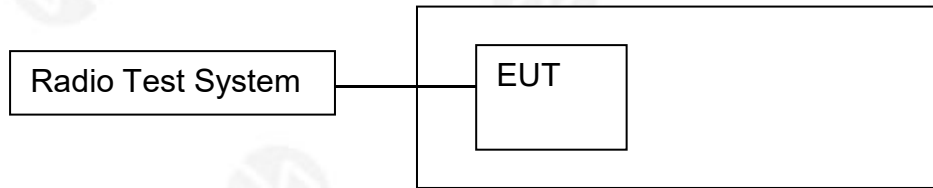
Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits
- The EUT was tested in the low, high channel and the worst case position data was reported.
- Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



8. BAND EDGE

8.1 Block Diagram Of Test Setup



8.2 Limit

- (1) 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.
- (2) 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.
- (3) 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.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

8.3 Test procedure

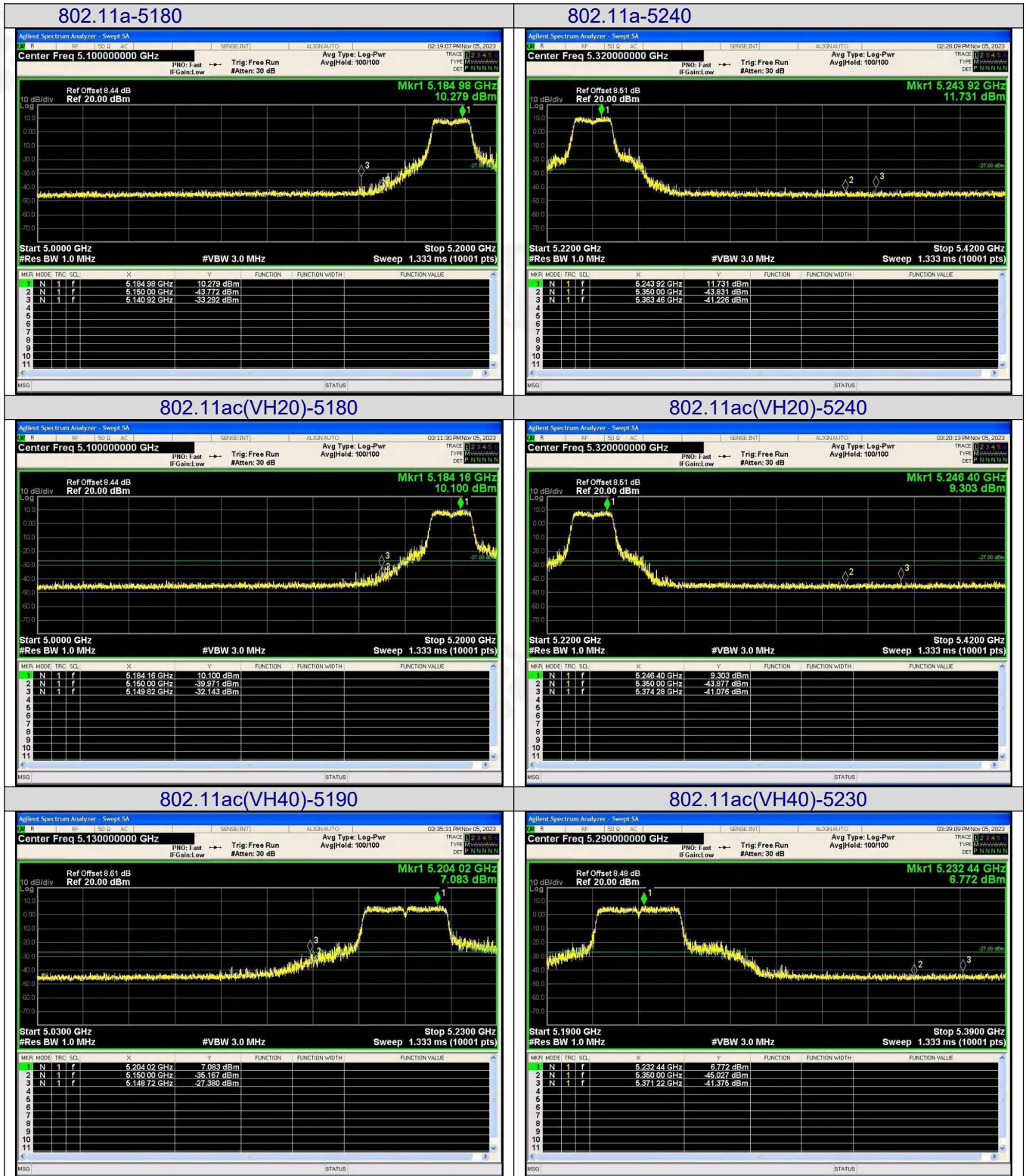
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

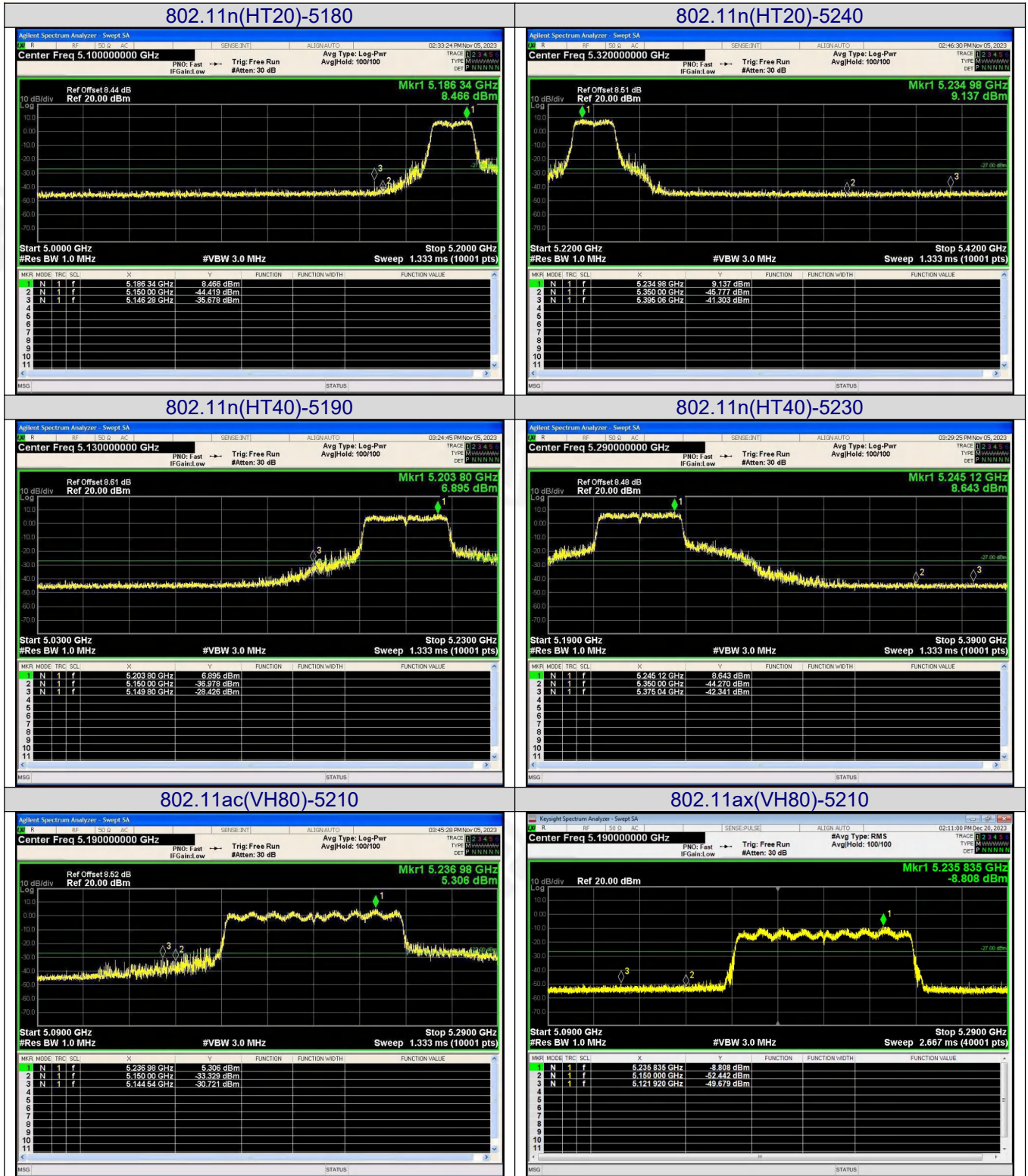


8.4 Test Result

Test Graph
5150-5250MHz:

ANT 1







ANT 2

