



TEST REPORT

FCC ID: 2AIA6-CH300

For
Chorse LLC

300M WIRELESS USB ADAPTER

| | | |
|-----------------|---|---|
| Model No. | : | CH300 |
| Trade Name | : | N/A |
| Prepared for | : | Chorse LLC |
| Address | : | 2185 Gwinn Ave.San Martin, CA 95046 |
| Prepared by | : | Shenzhen Alpha Product Testing Co., Ltd. |
| Address | : | Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China |
| Report No. | : | T1860648 01 |
| Date of Receipt | : | April 23, 2016 |
| Date of Test | : | April 23-29, 2016 |
| Date of Report | : | May 03, 2016 |
| Version Number | : | REV0 |

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DECLARATION

Applicant : Chorse LLC
Manufacturer : Chorse LLC
Product : 300M WIRELESS USB ADAPTER
(A) Model No. : CH300
(B) Trade Name : N/A
(C) Power supply : DC 5V From PC with AC 120V/60Hz

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2015,
ANSI C63.4:2014 ;ANSI C63.10:2013**

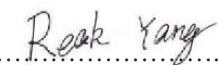
The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

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

Reak Yang
Test Engineer

.....

Approved by (name + signature).....:

Simple Guan
Project Manager

.....

Date of issue.....

May 03, 2016

1 General Information

1.1 Description of Device (EUT)

Trade Name : N/A

EUT : 300M WIRELESS USB ADAPTER

Model No. : CH300

DIFF : N/A

Antenna Type : 1PCS External antenna port with unique NON standard antenna port ,This Antenna Gain is 4.5dBi ; 1PCS PCB Antenna Gain 0dBi

Operation : IEEE 802.11b/g: 2412MHz-2462MHz

Frequency : IEEE 802.11n HT20: 2412MHz-2462MHz

IEEE 802.11n HT40: 2422MHz-2452MHz

EEE 802.11b/g:11Channels

Channel number : IEEE 802.11n HT20: 11 Channels

IEEE 802.11n HT40: 7Channels

IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) : SISO mode only

Modulation type : IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) : SISO mode only

IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK) : MIMO mode

Power Supply : DC 5V From PC with AC 120V/60Hz

Software version : N/A

Hardware version : N/A

Applicant : Chorse LLC

Address : 2185 Gwinn Ave.San Martin, CA 95046

Manufacture : Chorse LLC

Address : 2185 Gwinn Ave.San Martin, CA 95046

1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC

Registration Number: 12135A

2.7. Test Equipment

| Equipment | Manufacture | Model No. | Serial No. | Cal. Due day | Cal Interval |
|---------------------|---------------|--------------|-------------------|--------------|--------------|
| 3m Semi-Anechoic | ETS-LINDGREN | N/A | SEL0017 | 2017.01.16 | 1 Year |
| Spectrum analyzer | Agilent | E4407B | MY49510055 | 2017.01.16 | 1 Year |
| Receiver | R&S | ESCI | 101165 | 2017.01.16 | 1 Year |
| Bilog Antenna | SCHWARZBECK | VULB 9168 | 9168-438 | 2018.01.18 | 2 Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D(1201) | 2018.01.18 | 2 Year |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA 9170 D(1432) | 2018.01.18 | 2 Year |
| Active Loop Antenna | Beijing Daze | ZN30900A | SEL0097 | 2017.01.16 | 1 Year |
| Cable | Resenberger | SUCOFLEX 104 | MY6562/4 | 2017.01.16 | 1 Year |
| Cable | Resenberger | SUCOFLEX 104 | 309972/4 | 2017.01.16 | 1 Year |
| Cable | Resenberger | SUCOFLEX 104 | 329112/4 | 2017.01.16 | 1 Year |
| L.I.S.N.#1 | Schwarzbeck | NSLK8126 | 8126466 | 2017.01.16 | 1 Year |
| L.I.S.N.#2 | ROHDE&SCHWARZ | ENV216 | 101043 | 2017.01.16 | 1 Year |
| Power Meter | Anritsu | ML2487A | 6K00001491 | 2017.01.16 | 1 Year |
| Power sensor | Anritsu | ML2491A | 32516 | 2017.01.16 | 1 Year |
| Pre-amplifier | SCHWARZBECK | BBV9743 | 9743-019 | 2017.01.16 | 1 Year |
| Pre-amplifier | Quietek | AP-180C | CHM-0602012 | 2017.01.16 | 1 Year |

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard ANSI C63.4:2014 using a 50 μ H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard ANSI C63.4:2014 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD ANSI C63.4:2014 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard ANSI C63.4:2014 10.1.7 with the EUT 40 cm from the vertical ground wall.

4 Summary of Measurement

4.1 Summary of test result

| Test Item | Test Requirement | Standards Paragraph | Result |
|---------------------|------------------|-------------------------------|------------|
| Spurious Emission | FCC PART 15:2015 | Section 15.247&15.209 | Compliance |
| Conduction Emission | FCC PART 15:2015 | Section 15.207 | Compliance |
| Bandwidth Test | FCC PART 15:2015 | Section 15.247 | Compliance |
| Peak Power | FCC PART 15:2015 | Section 15.247 | Compliance |
| Power Density | FCC PART 15:2015 | Section 15.247 | Compliance |
| Band Edge | FCC PART 15:2015 | Section 15.247 Section 5.5 | Compliance |
| Antenna Requirement | FCC PART 15:2015 | Section 15.203 | Compliance |

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The adapter be used during Test)

4.2 Test connection



4.3 Assistant equipment used for test

| | | |
|--------------------------|---|----------|
| Description | : | Notebook |
| Manufacturer | : | ACER |
| Model No. | : | ZQT |
| Remark: FCC DOC approved | | |

4.4 Test mode

| Dutycycle :100% | | | |
|---|-------------------------------|-------------|--------------------|
| Keeping TX | | | |
| Mode | data rate (Mbps)(see Note) | Channel | Frequency (MHz) |
| IEEE 802.11b | 1 | Low :CH1 | 2412 |
| | 1 | Middle: CH6 | 2437 |
| | 1 | High: CH11 | 2462 |
| IEEE 802.11g | 6 | Low :CH1 | 2412 |
| | 6 | Middle: CH6 | 2437 |
| | 6 | High: CH11 | 2462 |
| IEEE 802.11 n/HT20 with 2.4G | 6.5 | Low :CH1 | 2412 |
| | 6.5 | Middle: CH6 | 2437 |
| | 6.5 | High: CH11 | 2462 |
| IEEE 802.11 n/HT40 with 2.4G | 13.5 | Low :CH3 | 2422 |
| | 13.5 | Middle:CH6 | 2437 |
| | 13.5 | High:CH9 | 2452 |
| Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test. | | | |
| Note: Only 802.11n Mode can keep in MIMO mode. | | | |

4.5 Channel list

| For IEEE 802.11b/g and IEEE 802.11n/HT20 with 2.4G | | | | | |
|--|--------------------|---------|--------------------|---------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| CH1 | 2412 | CH5 | 2432 | CH9 | 2452 |
| CH2 | 2417 | CH6 | 2437 | CH10 | 2457 |
| CH3 | 2422 | CH7 | 2442 | CH11 | 2462 |
| CH4 | 2427 | CH8 | 2447 | | |

| For IEEE 802.11n/HT40 with 2.4G | | | | | |
|---------------------------------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| CH1 | / | CH5 | 2432 | CH9 | 2452 |
| CH2 | / | CH6 | 2437 | / | / |
| CH3 | 2422 | CH7 | 2442 | / | / |
| CH4 | 2427 | CH8 | 2447 | / | / |

4.6 Test Conditions

| | |
|-------------------|-----------|
| Temperature range | 21-25°C |
| Humidity range | 40-75% |
| Pressure range | 86-106kPa |

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

| Item | MU | Remark |
|---|---------|-------------|
| Uncertainty for Power point Conducted Emissions Test | 2.71dB | |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz) | 2.13 dB | Polarize: V |
| | 2.57dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.90 dB | Polarize: V |
| | 3.92dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 4.26 dB | Polarize: H |
| | 4.28 dB | Polarize: V |
| Uncertainty for radio frequency | 1×10-9 | |
| Uncertainty for conducted RF Power | 0.65dB | |
| Uncertainty for temperature | 0.2°C | |
| Uncertainty for humidity | 1% | |
| Uncertainty for DC and low frequency voltages | 0.06% | |

5 Spurious Emission

5.1 Radiation Emission

5.1.1 Radiation Emission Limits(15.209)

| Frequencies (MHz) | Field Strength (micorvolts/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 |

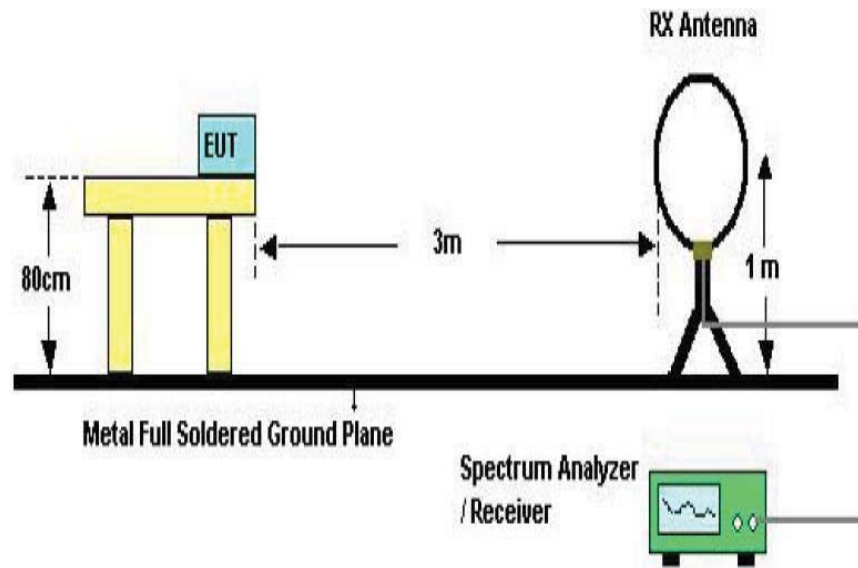
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

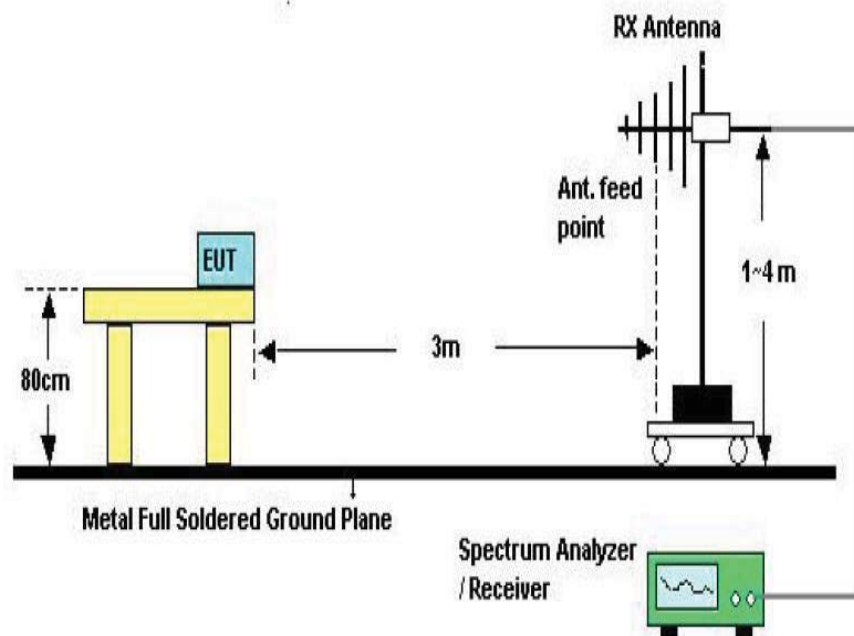
- a) The tighter limit applies at the band edges.
- b) $\text{Emission Level(dB uV/m)} = 20 \log \text{Emission Level(uv/m)}$

5.1.2 Test Setup

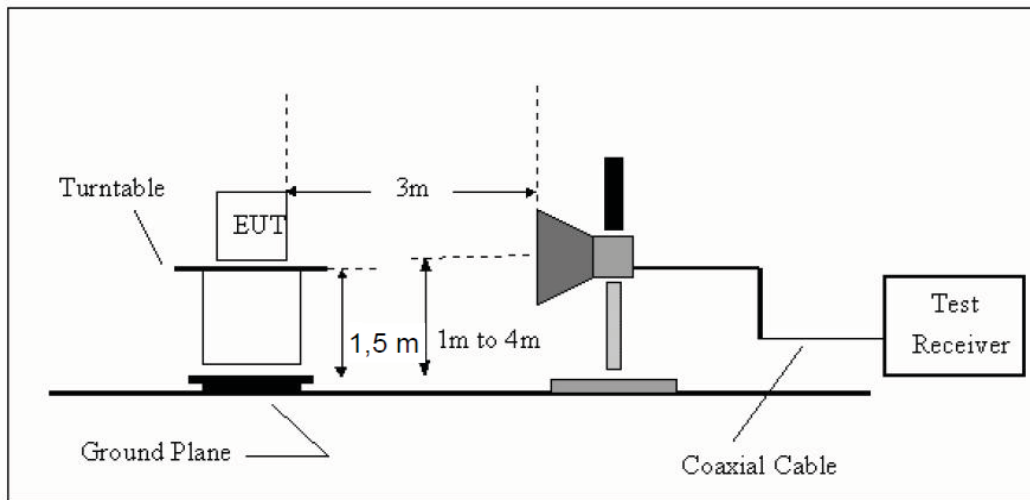
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.1.3 Test Procedure

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- For the actual test configuration, please see the test setup photo.

5.1.4 Test Equipment Setting For emission test Result

| | | |
|--------------|------------|------------|
| 9KHz~150KHz | RBW 200Hz | VBW 1KHz |
| 150KHz~30MHz | RBW 9KHz | VBW 30KHz |
| 30MHz~1GHz | RBW 120KHz | VBW 300KHz |
| Above 1GHz | RBW 1MHz | VBW 3MHz |

5.1.5 Test Condition

Continual Transmitting in maximum power.

5.1.6 Test Result

TX MODE

All SISO and MIMO modes all have been tested , and only worse case of 802.11 b mode is reported only.

We have scanned the 9KHz from 25GHz to the EUT.

Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

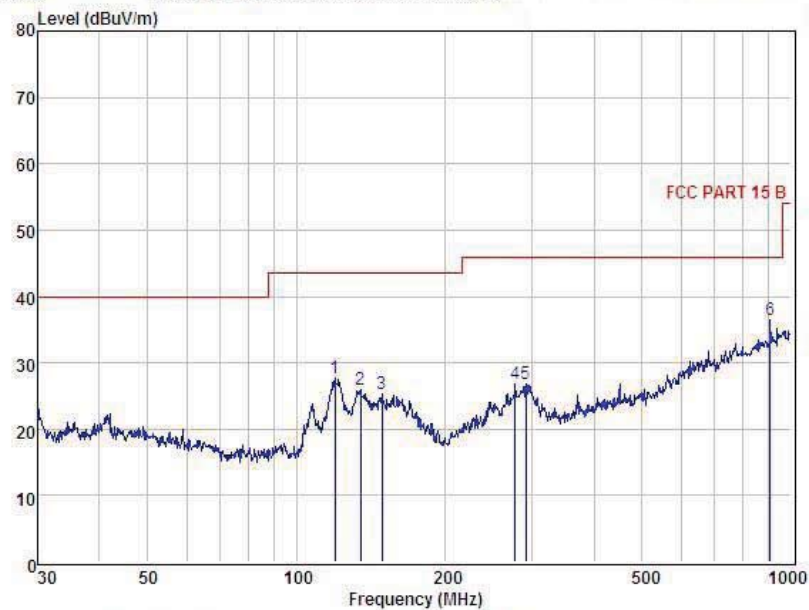
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11b ant1:



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Data: 3 File: D:\REPORT DATA\JLXD\CH300.EM6 (6)



Condition : FCC PART 15 B 3m POL: HORIZONTAL
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :
 Temp : 24.2°C
 Hum : 54%

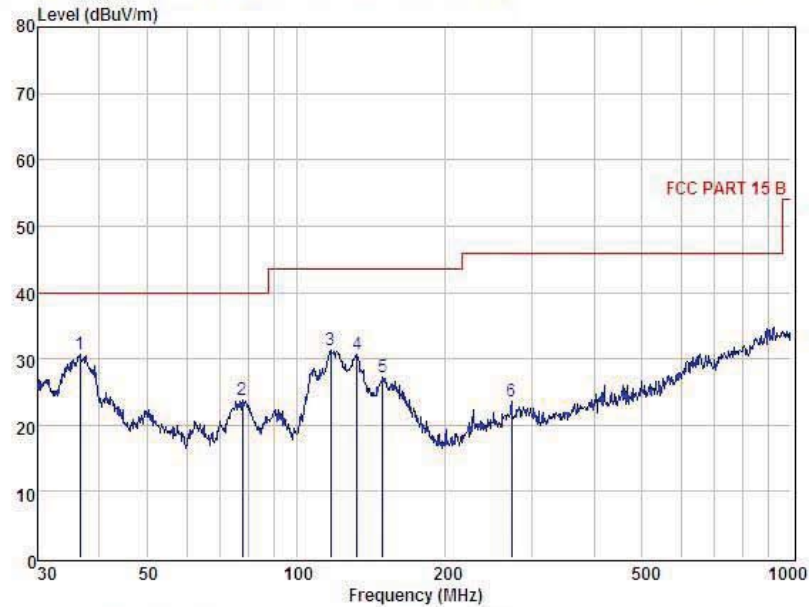
| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamplifier Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 119.86 | 44.99 | 12.06 | 29.68 | 0.36 | 27.73 | 43.50 | -15.77 | Peak |
| 2 | 135.03 | 41.86 | 13.08 | 29.41 | 0.46 | 25.99 | 43.50 | -17.51 | Peak |
| 3 | 148.96 | 40.32 | 14.03 | 29.45 | 0.35 | 25.25 | 43.50 | -18.25 | Peak |
| 4 | 277.09 | 42.10 | 12.31 | 28.09 | 0.49 | 26.81 | 46.00 | -19.19 | Peak |
| 5 | 291.04 | 41.55 | 12.62 | 28.04 | 0.61 | 26.74 | 46.00 | -19.26 | Peak |
| 6 | 906.48 | 36.38 | 21.74 | 25.11 | 1.49 | 36.50 | 46.00 | -9.50 | Peak |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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 Website: <http://www.a-lab.cn> Email: service@a-lab.cn

Data: 4 File: D:\REPORT DATA\JLXD\CH300.EM6 (6)



Condition : FCC PART 15 B 3m POL: VERTICAL
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :
 Temp : 24.2°C
 Hum : 54%

| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamplifier Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 36.51 | 47.98 | 13.39 | 30.83 | 0.10 | 30.64 | 40.00 | -9.36 | Peak |
| 2 | 77.87 | 43.82 | 9.60 | 30.01 | 0.29 | 23.70 | 40.00 | -16.30 | Peak |
| 3 | 117.36 | 48.91 | 11.87 | 29.74 | 0.37 | 31.41 | 43.50 | -12.09 | Peak |
| 4 | 132.69 | 46.68 | 12.93 | 29.44 | 0.53 | 30.70 | 43.50 | -12.80 | Peak |
| 5 | 149.49 | 42.26 | 14.03 | 29.45 | 0.35 | 27.19 | 43.50 | -16.31 | Peak |
| 6 | 272.28 | 38.86 | 12.15 | 28.12 | 0.66 | 23.55 | 46.00 | -22.45 | Peak |

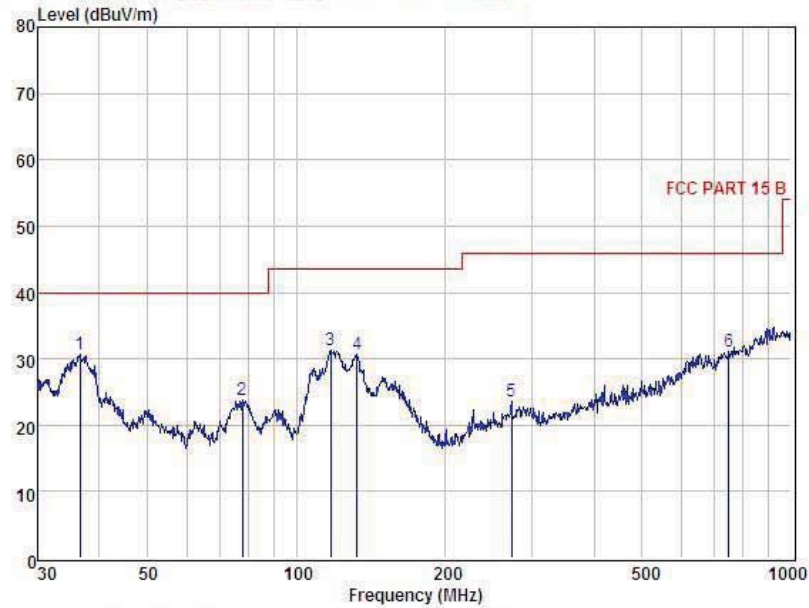
Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

802.11b ant2:



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 Website: <http://www.a-lab.cn> Email: service@a-lab.cn

Data: 6 File: D:\REPORT DATA\JLXD\CH300.EM6 (6)



Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :
 Temp : 24.2°C
 Hum : 54%

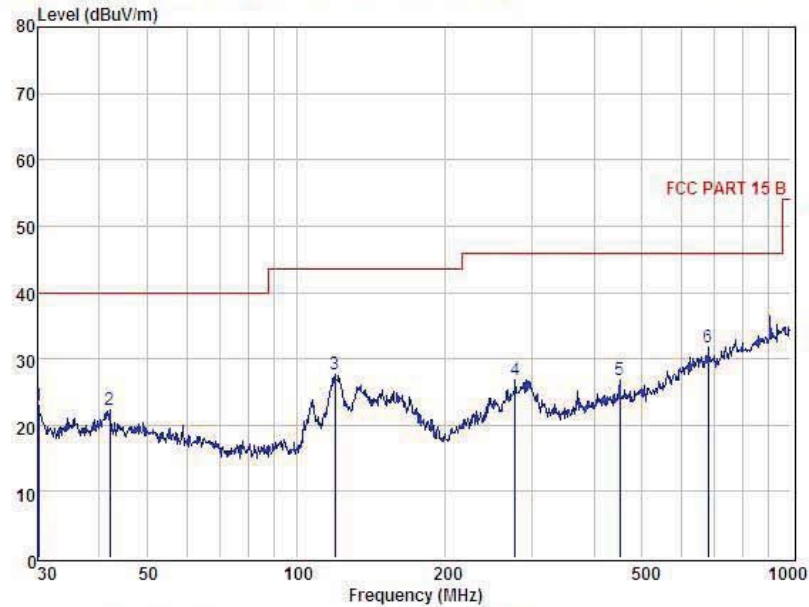
| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamplifier Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 36.51 | 47.98 | 13.39 | 30.83 | 0.10 | 30.64 | 40.00 | -9.36 | Peak |
| 2 | 77.87 | 43.82 | 9.60 | 30.01 | 0.29 | 23.70 | 40.00 | -16.30 | Peak |
| 3 | 117.36 | 48.91 | 11.87 | 29.74 | 0.37 | 31.41 | 43.50 | -12.09 | Peak |
| 4 | 132.69 | 46.68 | 12.93 | 29.44 | 0.53 | 30.70 | 43.50 | -12.80 | Peak |
| 5 | 272.28 | 38.86 | 12.15 | 28.12 | 0.66 | 23.55 | 46.00 | -22.45 | Peak |
| 6 | 747.48 | 35.18 | 20.22 | 25.35 | 1.08 | 31.13 | 46.00 | -14.87 | Peak |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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 Website: <http://www.a-lab.cn> Email: service@a-lab.cn

Data: 5 File: D:\REPORT DATA\JJLXD\CH300.EM6 (6)



Condition : FCC PART 15 B 3m POL: HORIZONTAL
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :
 Temp : 24.2°C
 Hum : 54%

| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamplifier Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 30.11 | 40.66 | 13.22 | 30.98 | 0.03 | 22.93 | 40.00 | -17.07 | Peak |
| 2 | 42.01 | 38.62 | 13.93 | 30.40 | 0.19 | 22.34 | 40.00 | -17.66 | Peak |
| 3 | 119.86 | 44.99 | 12.06 | 29.68 | 0.36 | 27.73 | 43.50 | -15.77 | Peak |
| 4 | 277.09 | 42.10 | 12.31 | 28.09 | 0.49 | 26.81 | 46.00 | -19.19 | Peak |
| 5 | 451.14 | 37.33 | 15.99 | 27.54 | 1.08 | 26.86 | 46.00 | -19.14 | Peak |
| 6 | 679.96 | 36.46 | 19.44 | 25.80 | 1.70 | 31.80 | 46.00 | -14.20 | Peak |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

From 1G-25GHz

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

IEEE 802.11b ant1:

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remarks |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|---------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | V | 42.14 | --- | -11.24 | 30.9 | --- | 74 | 54 | 43.1 | Peak |
| 4824 | V | 34.76 | --- | 0.64 | 35.4 | --- | 74 | 54 | 38.6 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remarks |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|---------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | H | 41.91 | --- | -11.24 | 30.67 | --- | 74 | 54 | 43.33 | Peak |
| 4824 | H | 34.64 | --- | 0.64 | 35.28 | --- | 74 | 54 | 38.72 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | V | 42.19 | --- | -11.24 | 30.95 | --- | 74 | 54 | 43.05 | Peak |
| 4874 | V | 37.61 | --- | 0.76 | 38.37 | --- | 74 | 54 | 35.63 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | H | 41.87 | --- | -11.24 | 30.63 | --- | 74 | 54 | 43.37 | Peak |
| 4874 | H | 38.59 | --- | 0.76 | 39.35 | --- | 74 | 54 | 34.65 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | V | 41.38 | --- | -11.24 | 30.14 | --- | 74 | 54 | 43.86 | Peak |
| 4924 | V | 34.5 | --- | 0.87 | 35.37 | --- | 74 | 54 | 38.63 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | H | 41.91 | --- | -11.24 | 30.67 | --- | 74 | 54 | 43.33 | Peak |
| 4924 | H | 31.8 | --- | 0.87 | 32.67 | --- | 74 | 54 | 41.33 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11 g ant1:

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1145 | V | 42.54 | --- | -11.24 | 31.3 | --- | 74 | 54 | 42.7 | Peak |
| 2586 | V | 45.14 | --- | -7.13 | 38.01 | --- | 74 | 54 | 35.99 | Peak |
| 3062 | V | 43.19 | --- | -5.74 | 37.45 | --- | 74 | 54 | 36.55 | Peak |
| 4824 | V | 42.24 | --- | 0.64 | 42.88 | --- | 74 | 54 | 31.12 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1294 | H | 42.93 | --- | -10.96 | 31.97 | --- | 74 | 54 | 42.03 | Peak |
| 2038 | H | 42.06 | --- | -8.58 | 33.48 | --- | 74 | 54 | 40.52 | Peak |
| 3483 | H | 40.91 | --- | -4.95 | 35.96 | --- | 74 | 54 | 38.04 | Peak |
| 4824 | H | 39.58 | --- | 0.64 | 40.22 | --- | 74 | 54 | 33.78 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1374 | V | 42.3 | --- | -10.43 | 31.87 | --- | 74 | 54 | 42.13 | Peak |
| 2589 | V | 42.55 | --- | -7.13 | 35.42 | --- | 74 | 54 | 38.58 | Peak |
| 3365 | V | 42.09 | --- | -5.18 | 36.91 | --- | 74 | 54 | 37.09 | Peak |
| 4874 | V | 41.27 | --- | 0.76 | 42.03 | --- | 74 | 54 | 31.97 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1321 | H | 42.13 | --- | -10.84 | 31.29 | --- | 74 | 54 | 42.71 | Peak |
| 2314 | H | 42.76 | --- | -7.46 | 35.3 | --- | 74 | 54 | 38.7 | Peak |
| 3577 | H | 41 | --- | -4.76 | 36.24 | --- | 74 | 54 | 37.76 | Peak |
| 4874 | H | 38.9 | --- | 0.76 | 39.66 | --- | 74 | 54 | 34.34 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1302 | V | 42.1 | --- | -10.84 | 31.26 | --- | 74 | 54 | 42.74 | Peak |
| 2982 | V | 42.58 | --- | -5.86 | 36.72 | --- | 74 | 54 | 37.28 | Peak |
| 3831 | V | 41.63 | --- | -3.96 | 37.67 | --- | 74 | 54 | 36.33 | Peak |
| 4924 | V | 39.73 | --- | 0.87 | 40.6 | --- | 74 | 54 | 33.4 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1446 | H | 41.91 | --- | -10.29 | 31.62 | --- | 74 | 54 | 42.38 | Peak |
| 2198 | H | 42 | --- | -8.24 | 33.76 | --- | 74 | 54 | 40.24 | Peak |
| 3905 | H | 42.13 | --- | -3.68 | 38.45 | --- | 74 | 54 | 35.55 | Peak |
| 4924 | H | 39.54 | --- | 0.87 | 40.41 | --- | 74 | 54 | 33.59 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11b ant2:

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|----------------|-----------------|---------------------------|-------------------------|-------------------------|------------------|----------------|---------------------------|-------------------------|----------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | V | 40.99 | --- | -11.24 | 29.75 | --- | 74 | 54 | 44.25 | Peak |
| 4824 | V | 33.37 | --- | 0.64 | 34.01 | --- | 74 | 54 | 39.99 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|----------------|-----------------|---------------------------|-------------------------|-------------------------|------------------|----------------|---------------------------|-------------------------|----------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | H | 40.51 | --- | -11.24 | 29.27 | --- | 74 | 54 | 44.73 | Peak |
| 4824 | H | 33.1 | --- | 0.64 | 33.74 | --- | 74 | 54 | 40.26 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | V | 39.96 | --- | -11.24 | 28.72 | --- | 74 | 54 | 45.28 | Peak |
| 4874 | V | 35.7 | --- | 0.76 | 36.46 | --- | 74 | 54 | 37.54 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | H | 40.12 | --- | -11.24 | 28.88 | --- | 74 | 54 | 45.12 | Peak |
| 4874 | H | 36.7 | --- | 0.76 | 37.46 | --- | 74 | 54 | 36.54 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | V | 39.91 | --- | -11.24 | 28.67 | --- | 74 | 54 | 45.33 | Peak |
| 4924 | V | 31.33 | --- | 0.87 | 32.2 | --- | 74 | 54 | 41.8 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1103 | H | 40.32 | --- | -11.24 | 29.08 | --- | 74 | 54 | 44.92 | Peak |
| 4924 | H | 30.17 | --- | 0.87 | 31.04 | --- | 74 | 54 | 42.96 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11 g ant2:

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1145 | V | 40.79 | --- | -11.24 | 29.55 | --- | 74 | 54 | 44.45 | Peak |
| 2586 | V | 42.86 | --- | -7.13 | 35.73 | --- | 74 | 54 | 38.27 | Peak |
| 3062 | V | 40.92 | --- | -5.74 | 35.18 | --- | 74 | 54 | 38.82 | Peak |
| 4824 | V | 40.52 | --- | 0.64 | 41.16 | --- | 74 | 54 | 32.84 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1294 | H | 40.13 | --- | -10.96 | 29.17 | --- | 74 | 54 | 44.83 | Peak |
| 2038 | H | 40.32 | --- | -8.58 | 31.74 | --- | 74 | 54 | 42.26 | Peak |
| 3483 | H | 39.22 | --- | -4.95 | 34.27 | --- | 74 | 54 | 39.73 | Peak |
| 4824 | H | 38.02 | --- | 0.64 | 38.66 | --- | 74 | 54 | 35.34 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1374 | V | 40.32 | --- | -10.43 | 29.89 | --- | 74 | 54 | 44.11 | Peak |
| 2589 | V | 40.91 | --- | -7.13 | 33.78 | --- | 74 | 54 | 40.22 | Peak |
| 3365 | V | 40.29 | --- | -5.18 | 35.11 | --- | 74 | 54 | 38.89 | Peak |
| 4874 | V | 39.51 | --- | 0.76 | 40.27 | --- | 74 | 54 | 33.73 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1321 | H | 40.32 | --- | -10.84 | 29.48 | --- | 74 | 54 | 44.52 | Peak |
| 2314 | H | 41.02 | --- | -7.46 | 33.56 | --- | 74 | 54 | 40.44 | Peak |
| 3577 | H | 39.31 | --- | -4.76 | 34.55 | --- | 74 | 54 | 39.45 | Peak |
| 4874 | H | 37.02 | --- | 0.76 | 37.78 | --- | 74 | 54 | 36.22 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1302 | V | 40.32 | --- | -10.84 | 29.48 | --- | 74 | 54 | 44.52 | Peak |
| 2982 | V | 40.86 | --- | -5.86 | 35 | --- | 74 | 54 | 39 | Peak |
| 3831 | V | 39.92 | --- | -3.96 | 35.96 | --- | 74 | 54 | 38.04 | Peak |
| 4924 | V | 38.32 | --- | 0.87 | 39.19 | --- | 74 | 54 | 34.81 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1446 | H | 40.5 | --- | -10.29 | 30.21 | --- | 74 | 54 | 43.79 | Peak |
| 2198 | H | 39.32 | --- | -8.24 | 31.08 | --- | 74 | 54 | 42.92 | Peak |
| 3905 | H | 40.42 | --- | -3.68 | 36.74 | --- | 74 | 54 | 37.26 | Peak |
| 4924 | H | 37.9 | --- | 0.87 | 38.77 | --- | 74 | 54 | 35.23 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT20 with 2.4G

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1492 | V | 42.11 | --- | -10.27 | 31.84 | --- | 74 | 54 | 42.16 | Peak |
| 2671 | V | 41.47 | --- | -6.94 | 34.53 | --- | 74 | 54 | 39.47 | Peak |
| 3948 | V | 41.95 | --- | -3.68 | 38.27 | --- | 74 | 54 | 35.73 | Peak |
| 4824 | V | 40.93 | --- | 0.64 | 41.57 | --- | 74 | 54 | 32.43 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1451 | H | 42.11 | --- | -10.27 | 31.84 | --- | 74 | 54 | 42.16 | Peak |
| 2839 | H | 42.38 | --- | -6.17 | 36.21 | --- | 74 | 54 | 37.79 | Peak |
| 3607 | H | 41.95 | --- | -4.52 | 37.43 | --- | 74 | 54 | 36.57 | Peak |
| 4824 | H | 40.87 | --- | 0.64 | 41.51 | --- | 74 | 54 | 32.49 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1262 | V | 41.8 | --- | -10.96 | 30.84 | --- | 74 | 54 | 43.16 | Peak |
| 2013 | V | 42.24 | --- | -8.58 | 33.66 | --- | 74 | 54 | 40.34 | Peak |
| 3798 | V | 41.48 | --- | -4.07 | 37.41 | --- | 74 | 54 | 36.59 | Peak |
| 4874 | V | 40.6 | --- | 0.76 | 41.36 | --- | 74 | 54 | 32.64 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1511 | H | 41.7 | --- | -10.14 | 31.56 | --- | 74 | 54 | 42.44 | Peak |
| 2353 | H | 41.86 | --- | -7.59 | 34.27 | --- | 74 | 54 | 39.73 | Peak |
| 3266 | H | 42.13 | --- | -5.39 | 36.74 | --- | 74 | 54 | 37.26 | Peak |
| 4874 | H | 40.87 | --- | 0.76 | 41.63 | --- | 74 | 54 | 32.37 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1477 | V | 43.13 | --- | -10.27 | 32.86 | --- | 74 | 54 | 41.14 | Peak |
| 2703 | V | 42.01 | --- | -6.43 | 35.58 | --- | 74 | 54 | 38.42 | Peak |
| 3561 | V | 41.9 | --- | -4.76 | 37.14 | --- | 74 | 54 | 36.86 | Peak |
| 4924 | V | 40.73 | --- | 0.87 | 41.6 | --- | 74 | 54 | 32.4 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1503 | H | 41.68 | --- | -10.14 | 31.54 | --- | 74 | 54 | 42.46 | Peak |
| 3588 | H | 41.98 | --- | -4.96 | 37.02 | --- | 74 | 54 | 36.98 | Peak |
| 4153 | H | 41.79 | --- | -2.48 | 39.31 | --- | 74 | 54 | 34.69 | Peak |
| 4924 | H | 39.84 | --- | 0.87 | 40.71 | --- | 74 | 54 | 33.29 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT40 with 2.4G

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1551 | V | 42.14 | --- | -10.07 | 32.07 | --- | 74 | 54 | 41.93 | Peak |
| 2695 | V | 42.01 | --- | -6.94 | 35.07 | --- | 74 | 54 | 38.93 | Peak |
| 3463 | V | 41.3 | --- | -4.95 | 36.35 | --- | 74 | 54 | 37.65 | Peak |
| 4844 | V | 39.89 | --- | 0.64 | 40.53 | --- | 74 | 54 | 33.47 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Low | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1542 | H | 41.91 | --- | -10.14 | 31.77 | --- | 74 | 54 | 42.23 | Peak |
| 2358 | H | 41.77 | --- | -7.59 | 34.18 | --- | 74 | 54 | 39.82 | Peak |
| 3096 | H | 42.18 | --- | -5.74 | 36.44 | --- | 74 | 54 | 37.56 | Peak |
| 4844 | H | 40.58 | --- | 0.64 | 41.22 | --- | 74 | 54 | 32.78 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1628 | V | 42.47 | --- | -9.84 | 32.63 | --- | 74 | 54 | 41.37 | Peak |
| 2593 | V | 41.89 | --- | -7.13 | 34.76 | --- | 74 | 54 | 39.24 | Peak |
| 3301 | V | 42.03 | --- | -5.31 | 36.72 | --- | 74 | 54 | 37.28 | Peak |
| 4874 | V | 40.88 | --- | 0.76 | 41.64 | --- | 74 | 54 | 32.36 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX Mid | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1564 | H | 42.1 | --- | -10.07 | 32.03 | --- | 74 | 54 | 41.97 | Peak |
| 2248 | H | 42.44 | --- | -8.13 | 34.31 | --- | 74 | 54 | 39.69 | Peak |
| 3159 | H | 41.4 | --- | -5.52 | 35.88 | --- | 74 | 54 | 38.12 | Peak |
| 4874 | H | 40.65 | --- | 0.76 | 41.41 | --- | 74 | 54 | 32.59 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1645 | V | 42.53 | --- | -9.84 | 32.69 | --- | 74 | 54 | 41.31 | Peak |
| 2590 | V | 42.06 | --- | -7.13 | 34.93 | --- | 74 | 54 | 39.07 | Peak |
| 3851 | V | 41.48 | --- | -3.84 | 37.64 | --- | 74 | 54 | 36.36 | Peak |
| 4904 | V | 39.83 | --- | 0.87 | 40.7 | --- | 74 | 54 | 33.3 | Peak |

| | | | |
|--------------------|---------------------------|--------------------------|---------------------------------|
| EUT | 300M WIRELESS USB ADAPTER | Model Name | CH300 |
| Temperature | 26°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 5V From PC with AC 120V/60Hz |
| Test Mode | MIMO TX High | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1792 | H | 42.2 | --- | -9.27 | 32.93 | --- | 74 | 54 | 41.07 | Peak |
| 2804 | H | 42.38 | --- | -6.17 | 36.21 | --- | 74 | 54 | 37.79 | Peak |
| 3743 | H | 42.74 | --- | -4.24 | 38.5 | --- | 74 | 54 | 35.5 | Peak |
| 4904 | H | 41.17 | --- | 0.87 | 42.04 | --- | 74 | 54 | 31.96 | Peak |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.207)

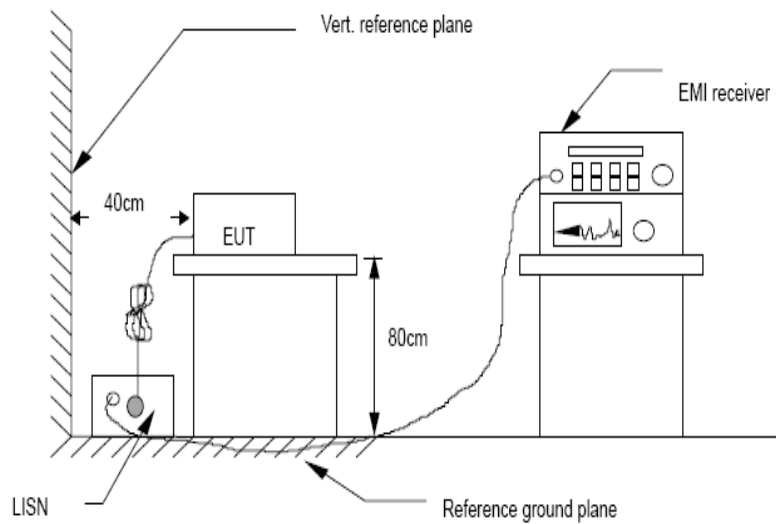
| Frequency MHz | Limits dB(μ V) | |
|------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 -0.50 | 66 -56* | 56 - 46* |
| 0.50 -5.00 | 56 | 46 |
| 5.00 -30.00 | 60 | 50 |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

6.2 Test Setup



6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4:2014 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCDLB ECHO 50) is set at 9 kHz.

6.4 Test Results

TX MODE

All SISO and MIMO modes all have been tested , and only worse case of 802.11 b mode is reported only.

PASS

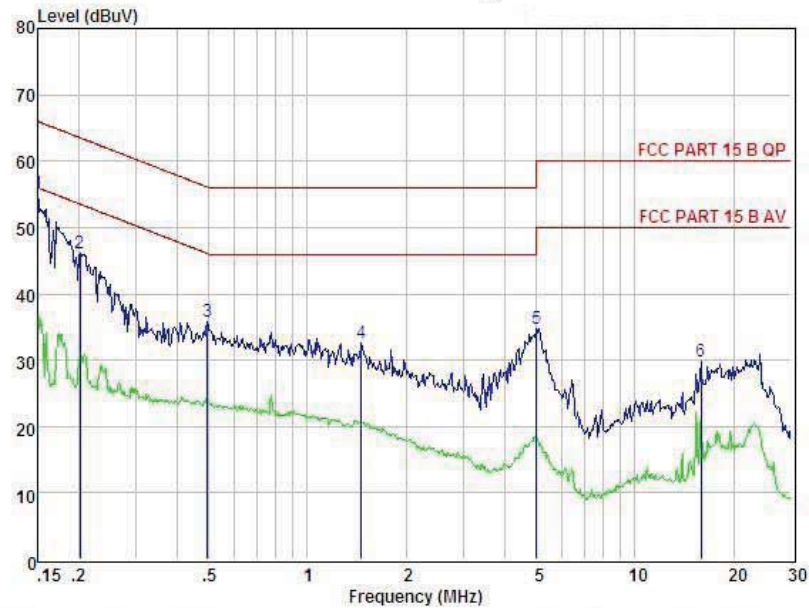
Detailed information please see the following page.

802.11b ant1:



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Data: 1 File: E:\TEST REPORT\J\JLXD\CH300.EM6 (8)



Condition : FCC PART 15 B QP POL: LINE Temp: 25.7 °C Hum: 51 %
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :

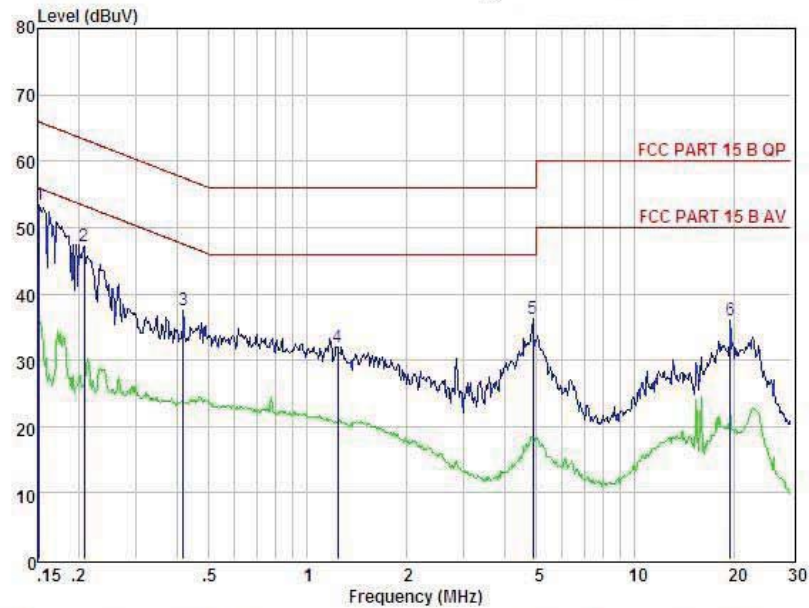
| Item | Freq MHz | Read Level dBuV | LISN Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|----------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 0.150 | 45.61 | 0.03 | -9.49 | 0.10 | 55.23 | 66.00 | -10.77 | Peak |
| 2 | 0.202 | 36.56 | 0.03 | -9.52 | 0.10 | 46.21 | 63.54 | -17.33 | Peak |
| 3 | 0.494 | 26.17 | 0.03 | -9.58 | 0.10 | 35.88 | 56.10 | -20.22 | Peak |
| 4 | 1.464 | 22.82 | 0.05 | -9.68 | 0.10 | 32.65 | 56.00 | -23.35 | Peak |
| 5 | 5.005 | 24.66 | 0.10 | -9.93 | 0.12 | 34.81 | 60.00 | -25.19 | Peak |
| 6 | 15.885 | 19.54 | 0.25 | -9.83 | 0.27 | 29.89 | 60.00 | -30.11 | Peak |

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



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Data: 3 File: E:\TEST REPORT\JJLXD\CH300.EM6 (8)



Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 25.7 °C Hum: 51 %
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :

| Item | Freq MHz | Read Level dBuV | LISN Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|----------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 0.152 | 43.66 | 0.03 | -9.52 | 0.10 | 53.31 | 65.91 | -12.60 | Peak |
| 2 | 0.208 | 37.54 | 0.03 | -9.52 | 0.10 | 47.19 | 63.27 | -16.08 | Peak |
| 3 | 0.417 | 27.86 | 0.03 | -9.57 | 0.10 | 37.56 | 57.51 | -19.95 | Peak |
| 4 | 1.236 | 22.27 | 0.04 | -9.65 | 0.10 | 32.06 | 56.00 | -23.94 | Peak |
| 5 | 4.874 | 26.20 | 0.10 | -9.92 | 0.12 | 36.34 | 56.00 | -19.66 | Peak |
| 6 | 19.532 | 25.57 | 0.31 | -9.80 | 0.34 | 36.02 | 60.00 | -23.98 | Peak |

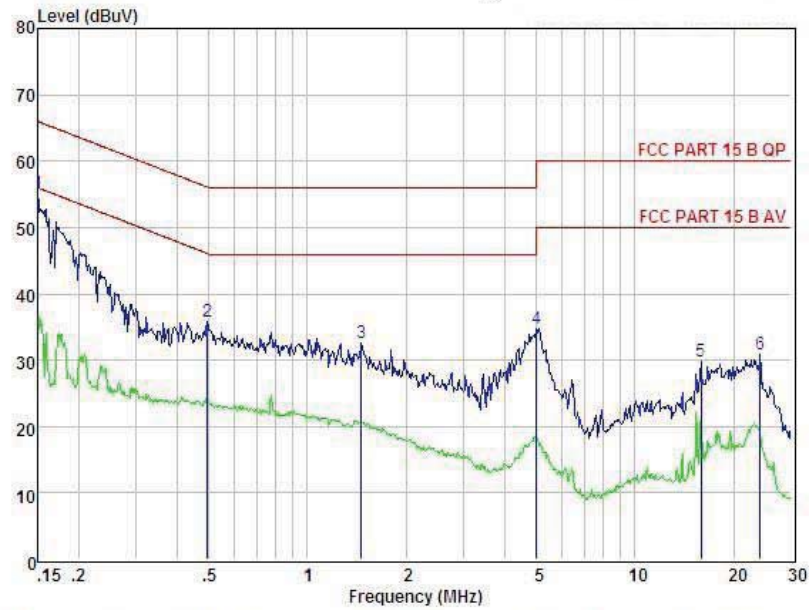
Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

802.11b ant2



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Data: 5 File: E:\TEST REPORT\J\JLXD\CH300.EM6 (8)



Condition : FCC PART 15 B QP POL: LINE Temp: 25.7 °C Hum: 51 %
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :

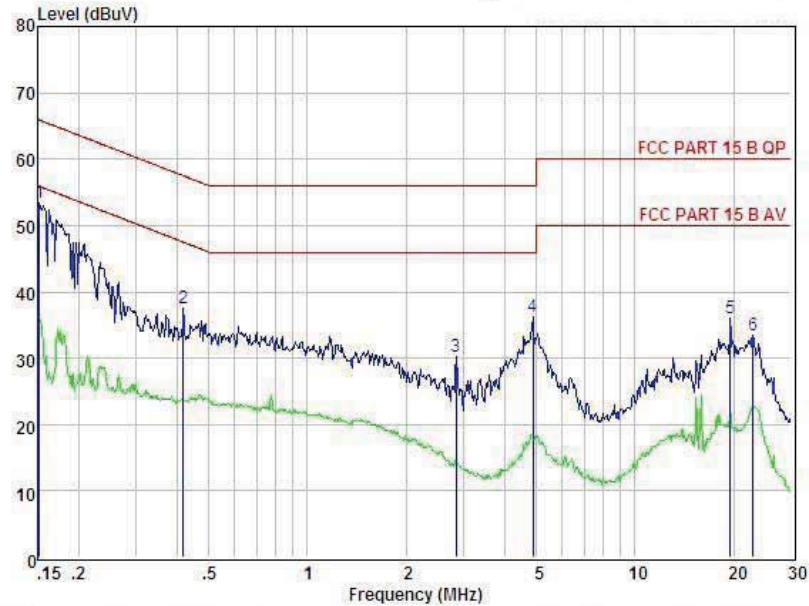
| Item | Freq MHz | Read Level dBuV | LISN Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|----------|-----------------|----------------|------------------|---------------|------------|------------|-------------|--------|
| 1 | 0.150 | 45.61 | 0.03 | -9.49 | 0.10 | 55.23 | 66.00 | -10.77 | Peak |
| 2 | 0.494 | 26.17 | 0.03 | -9.58 | 0.10 | 35.88 | 56.10 | -20.22 | Peak |
| 3 | 1.464 | 22.82 | 0.05 | -9.68 | 0.10 | 32.65 | 56.00 | -23.35 | Peak |
| 4 | 5.005 | 24.66 | 0.10 | -9.93 | 0.12 | 34.81 | 60.00 | -25.19 | Peak |
| 5 | 15.885 | 19.54 | 0.25 | -9.83 | 0.27 | 29.89 | 60.00 | -30.11 | Peak |
| 6 | 24.142 | 20.22 | 0.44 | -9.82 | 0.45 | 30.93 | 60.00 | -29.07 | Peak |

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



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Data: 7 File: E:\TEST REPORT\JJLXD\CH300.EM6 (8)



Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 25.7 °C Hum: 51 %
 EUI :
 Model No :
 Test Mode :
 Power : DC 5V from PC with AC 120V/60Hz
 Test Engineer :
 Remark :

| Item | Freq MHz | Read Level dBuV | LISN Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|----------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 0.152 | 43.66 | 0.03 | -9.52 | 0.10 | 53.31 | 65.91 | -12.60 | Peak |
| 2 | 0.417 | 27.86 | 0.03 | -9.57 | 0.10 | 37.56 | 57.51 | -19.95 | Peak |
| 3 | 2.839 | 20.27 | 0.07 | -9.78 | 0.12 | 30.24 | 56.00 | -25.76 | Peak |
| 4 | 4.874 | 26.20 | 0.10 | -9.92 | 0.12 | 36.34 | 56.00 | -19.66 | Peak |
| 5 | 19.532 | 25.57 | 0.31 | -9.80 | 0.34 | 36.02 | 60.00 | -23.98 | Peak |
| 6 | 22.896 | 22.90 | 0.42 | -9.81 | 0.43 | 33.56 | 60.00 | -26.44 | Peak |

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

7 Conducted Maximum Output Power

7.1 Test limit

Please refer section RSS-247 & 15.247.

7.2 Test Procedure

Details see the KDB558074 Meas Guidance V03

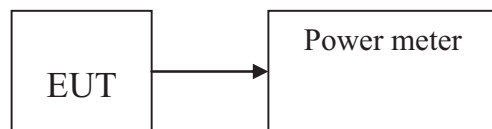
7.2.1 Place the EUT on the table and set it in transmitting mode.

7.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

Details see the KDB558074 DTS Meas Guidance V03

7.3 Test Setup



7.4 Test Results

PASS

Detailed information please see the following page.

| | |
|--------------------------------|--------------------|
| EUT: 300M WIRELESS USB ADAPTER | M/N: CH300 |
| Test date: 2016-04-27 | Test site: RF site |
| Tested by: Reak Yang | |
| Conclusion: PASS | |

| Mode | Frequency (MHz) | Ant Port | PK Output power(dBm) | |
|------------------------------|-----------------|----------|----------------------|------|
| IEEE 802.11 b | CH1: 2412 | 0 | 9.53 | 9.53 |
| | | 1 | 9.57 | 9.57 |
| | CH6: 2437 | 0 | 9.37 | 9.37 |
| | | 1 | 9.49 | 9.49 |
| | CH11: 2462 | 0 | 9.52 | 9.52 |
| | | 1 | 9.71 | 9.71 |
| IEEE 802.11 g | CH1: 2412 | 0 | 5.81 | 5.81 |
| | | 1 | 5.90 | 5.90 |
| | CH6: 2437 | 0 | 5.82 | 5.82 |
| | | 1 | 5.35 | 5.35 |
| | CH11: 2462 | 0 | 5.70 | 5.70 |
| | | 1 | 5.90 | 5.90 |
| IEEE 802.11 n/HT20 with 2.4G | CH1: 2412 | 0 | 5.18 | 8.21 |
| | | 1 | 5.22 | |
| | CH6: 2437 | 0 | 5.39 | 8.31 |
| | | 1 | 5.20 | |
| | CH11: 2462 | 0 | 5.20 | 8.29 |
| | | 1 | 5.35 | |
| IEEE 802.11 n/HT40 with 2.4G | CH3: 2422 | 0 | 2.48 | 5.37 |
| | | 1 | 2.23 | |
| | CH6: 2437 | 0 | 2.44 | 5.28 |
| | | 1 | 2.10 | |
| | CH9: 2452 | 0 | 2.55 | 5.38 |
| | | 1 | 2.19 | |

8 PEAK POWER SPECTRAL DENSITY

8.1 Test limit

8.1.1 Please refer section RSS-247 & 15.247.

8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

8.2 Method of measurement

Details see the KDB558074 DTS Meas Guidance V03

8.2.1 Place the EUT on the table and set it in transmitting mode.

8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.

8.2.4 Record the max reading.

8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

8.3 Test Setup



8.4 Test Results

PASS.

Detailed information please see the following page.

| Mode | Frequency (MHz) | Ant Port | PK Output power(dBm) | | Limit (dBm) | Result |
|---------------------------------|--------------------|----------|-------------------------|---------|----------------|--------|
| IEEE 802.11 b | CH1: 2412 | 0 | -9.447 | -9.447 | 8 | PASS |
| | | 1 | -7.342 | -7.342 | 8 | PASS |
| | CH6: 2437 | 0 | -8.485 | -8.485 | 8 | PASS |
| | | 1 | -6.948 | -6.948 | 8 | PASS |
| | CH11: 2462 | 0 | -9.542 | -9.542 | 8 | PASS |
| | | 1 | -7.684 | -7.684 | 8 | PASS |
| IEEE 802.11 g | CH1: 2412 | 0 | -15.250 | -15.250 | 8 | PASS |
| | | 1 | -11.716 | -11.716 | 8 | PASS |
| | CH6: 2437 | 0 | -12.224 | -12.224 | 8 | PASS |
| | | 1 | -11.238 | -11.238 | 8 | PASS |
| | CH11: 2462 | 0 | -14.543 | -14.543 | 8 | PASS |
| | | 1 | -11.221 | -13.928 | 8 | PASS |
| IEEE 802.11 n/HT20 with 2.4G | CH1: 2412 | 0 | -15.024 | -9.71 | 8 | PASS |
| | | 1 | -11.223 | | | |
| | CH6: 2437 | 0 | -14.158 | -8.87 | 8 | PASS |
| | | 1 | -10.389 | | | |
| | CH11: 2462 | 0 | -13.316 | -9.42 | 8 | PASS |
| | | 1 | -11.700 | | | |
| IEEE 802.11 n/HT40 with 2.4G | CH3: 2422 | 0 | -20.315 | -15.80 | 8 | PASS |
| | | 1 | -17.690 | | | |
| | CH6: 2437 | 0 | -17.404 | -13.93 | 8 | PASS |
| | | 1 | -16.514 | | | |
| | CH9: 2452 | 0 | -19.422 | -15.35 | 8 | PASS |
| | | 1 | -17.505 | | | |
| Conclusion: PASS | | | | | | |

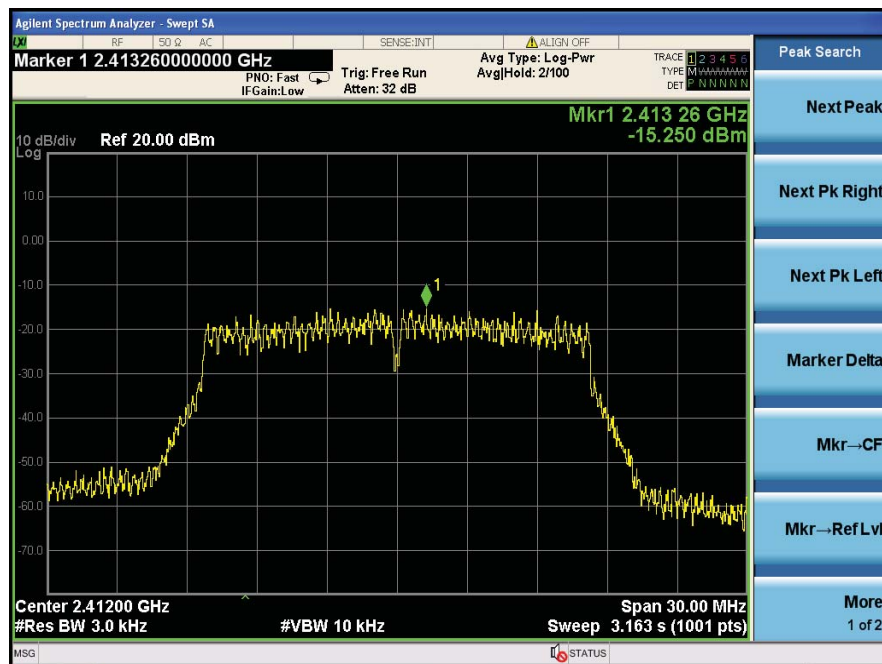
Port 0 antenna
IEEE 802.11b :
CH Low :



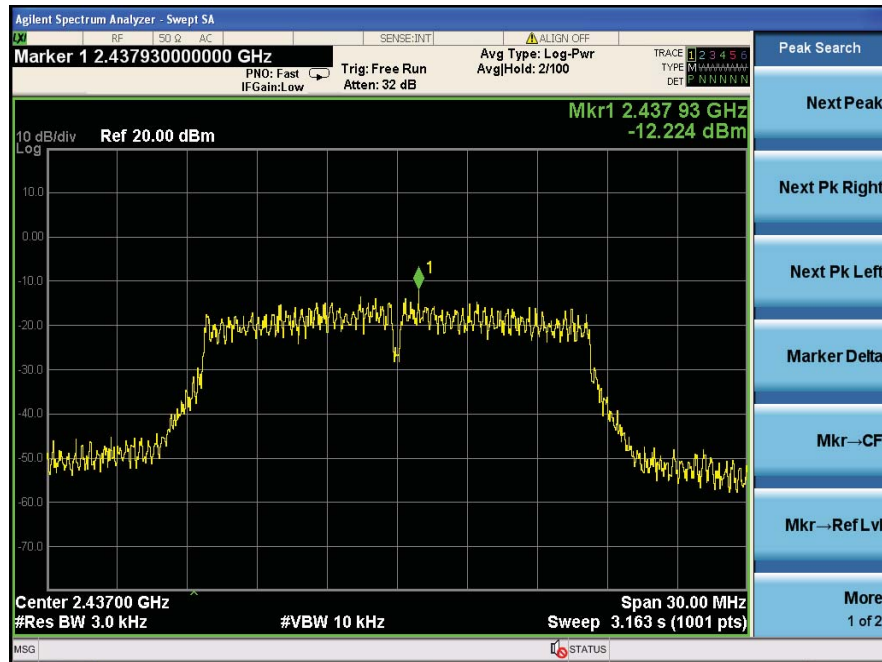
CH Mid:



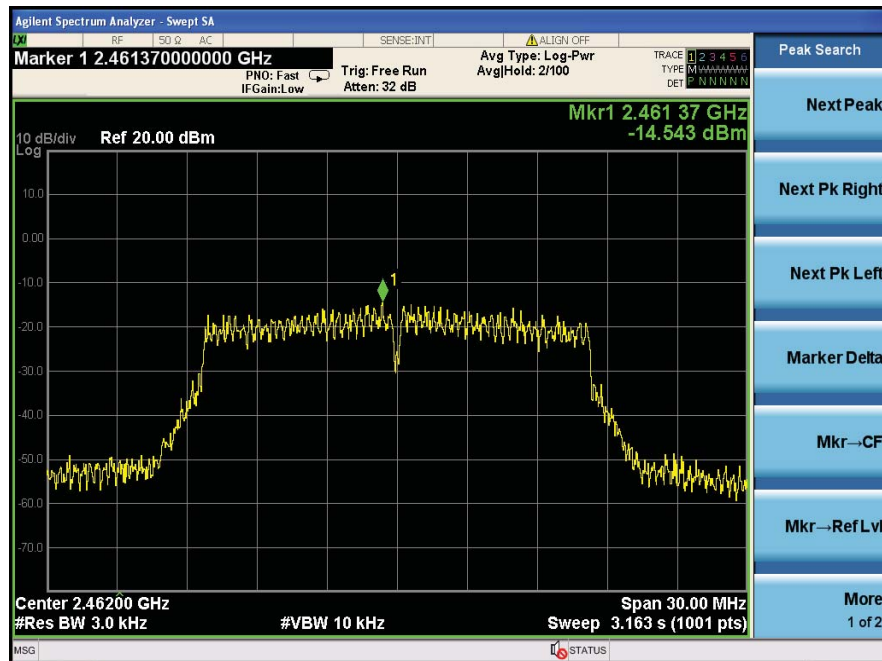
CH Hig:

IEEE 802.11g :
CH Low

CH Mid:

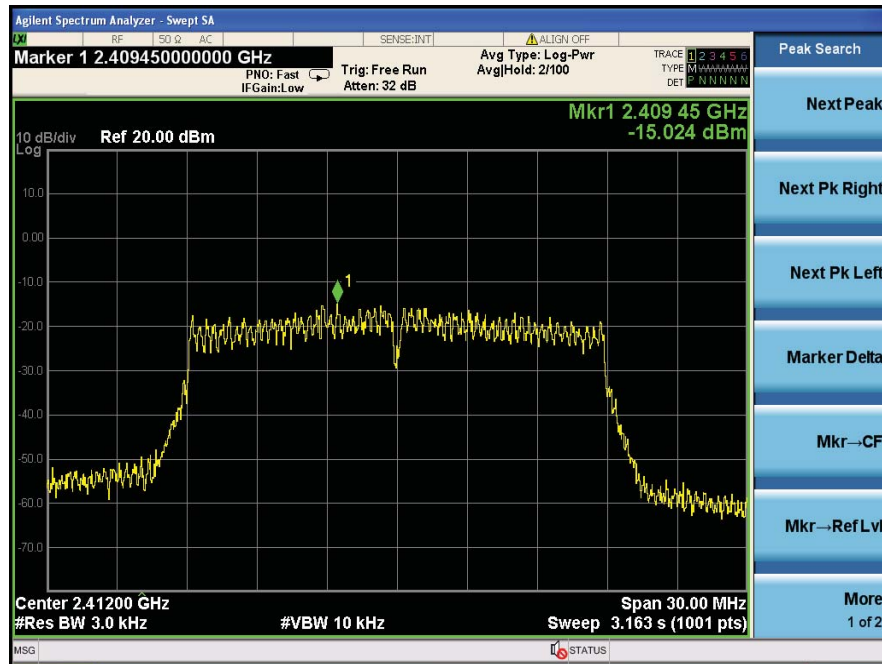


CH Hig:



IEEE 802.11n HT20 :

CH Low :



CH Mid:

