



FCC RADIO TEST REPORT

FCC ID: 2ACFF1361-001

Product : HDMI WiFi Dongle

Trade Name : N/A

Model Name : 1361-001(HDM-WIFI-AD01)

1361-005(HDM-WIFI-AD01B),1361-020(HDM-WIFI-AD02),
1361-030(HDM-WIFI-AD02B),1361-040(HDM-WIFI-AD03),

Serial Model : 1361-050(HDM-WIFI-AD03B),1361-060(HDM-WIFIBX-AD01),
1361-070(HDM-WIFIBX-AD01B),1361-080(HDM-WIFIAV-AD01),
1361-090(HDM-WIFIAV-AD01B)

Report No. : BZT-2014NT0511016F

Prepared for

C-SMARTLINK INFORMATION TECHNOLOGY CO.,LIMITED

Floor 2 & 3, No. 43 Factory Building, Guangda Road, 189 Industrial Area,
Henggang Town, Longgang District, Shenzhen, China

Prepared by

BZT Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an
District, Shenzhen P.R. China.

TEST RESULT CERTIFICATION

Applicant's name C-SMARTLINK INFORMATION TECHNOLOGY CO.,LIMITED
Address Floor 2 & 3, No. 43 Factory Building, Guangda Road, 189 Industrial Area, Henggang Town, Longgang District, Shenzhen, China
Manufacture's Name..... C-SMARTLINK INFORMATION TECHNOLOGY CO.,LIMITED
Address Floor 2 & 3, No. 43 Factory Building, Guangda Road, 189 Industrial Area, Henggang Town, Longgang District, Shenzhen, China

Product description

Product name HDMI WiFi Dongle
Model and/or type reference 1361-001(HDM-WIFI-AD01)
Serial Model 1361-005(HDM-WIFI-AD01B),1361-020(HDM-WIFI-AD02), 1361-030(HDM-WIFI-AD02B),1361-040(HDM-WIFI-AD03), 1361-050(HDM-WIFI-AD03B),1361-060(HDM-WIFIBX-AD01), 1361-070(HDM-WIFIBX-AD01B),1361-080(HDM-WIFIAV-AD01), 1361-090(HDM-WIFIAV-AD01B)
DIFF All model's the function, software and electric circuit are the same , only with a product color and model named different. The test mode is 1361-001(HDM-WIFI-AD01).

Standards FCC Part15.247

Test procedure ANSI C63.4-2003

This device described above has been tested by BZT, 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.

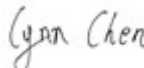
This report shall not be reproduced except in full, without the written approval of BZT, this document may be altered or revised by BZT, personal only, and shall be noted in the revision of the document.

Date of Test

Date (s) of performance of tests 12 May. 2014 ~18 May. 2014

Date of Issue..... 19 May. 2014

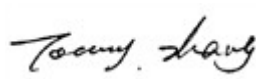
Test Result..... **Pass**

Testing Engineer : 

(Lynn Chen)

Technical Manager : 

(Carlen Liu)

Authorized Signatory : 

(Tommy zhang)

Table of Contents

| | Page |
|-------------------------------------------------------------|-------------|
| 1 . SUMMARY OF TEST RESULTS | 5 |
| 1.1 TEST FACILITY | 6 |
| 1.2 MEASUREMENT UNCERTAINTY | 6 |
| 2 . GENERAL INFORMATION | 7 |
| 2.1 GENERAL DESCRIPTION OF EUT | 7 |
| 2.2 DESCRIPTION OF TEST MODES | 9 |
| 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 10 |
| 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE) | 11 |
| 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS | 12 |
| 3 . EMC EMISSION TEST | 13 |
| 3.1 CONDUCTED EMISSION MEASUREMENT | 13 |
| 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS | 13 |
| 3.1.2 TEST PROCEDURE | 14 |
| 3.1.3 DEVIATION FROM TEST STANDARD | 14 |
| 3.1.4 TEST SETUP | 14 |
| 3.1.5 EUT OPERATING CONDITIONS | 14 |
| 3.1.6 TEST RESULTS | 15 |
| 3.2 RADIATED EMISSION MEASUREMENT | 17 |
| 3.2.1 RADIATED EMISSION LIMITS | 17 |
| 3.2.2 TEST PROCEDURE | 18 |
| 3.2.3 DEVIATION FROM TEST STANDARD | 18 |
| 3.2.4 TEST SETUP | 19 |
| 3.2.5 EUT OPERATING CONDITIONS | 20 |
| 3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ) | 21 |
| 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ) | 22 |
| 3.2.8 TEST RESULTS (ABOVE 1000 MHZ) | 24 |
| 3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS) | 36 |
| 4 . POWER SPECTRAL DENSITY TEST | 52 |
| 4.1 APPLIED PROCEDURES / LIMIT | 52 |
| 4.1.1 TEST PROCEDURE | 52 |
| 4.1.2 DEVIATION FROM STANDARD | 52 |
| 4.1.3 TEST SETUP | 52 |
| 4.1.4 EUT OPERATION CONDITIONS | 52 |
| 4.1.5 TEST RESULTS | 53 |
| 5 . BANDWIDTH TEST | 61 |
| 5.1 APPLIED PROCEDURES / LIMIT | 61 |

Table of Contents

| | Page |
|-----------------------------------------------------------|-------------|
| 5.1.1 TEST PROCEDURE | 61 |
| 5.1.2 DEVIATION FROM STANDARD | 61 |
| 5.1.3 TEST SETUP | 61 |
| 5.1.4 EUT OPERATION CONDITIONS | 61 |
| 5.1.5 TEST RESULTS | 62 |
| 6 . PEAK OUTPUT POWER TEST | 70 |
| 6.1 APPLIED PROCEDURES / LIMIT | 70 |
| 6.1.1 TEST PROCEDURE | 70 |
| 6.1.2 DEVIATION FROM STANDARD | 70 |
| 6.1.3 TEST SETUP | 70 |
| 6.1.4 EUT OPERATION CONDITIONS | 70 |
| 6.1.5 TEST RESULTS | 71 |
| 7 . ANTENNA REQUIREMENT | 72 |
| 7.1 STANDARD REQUIREMENT | 72 |
| 7.2 EUT ANTENNA | 72 |
| 8 . EUT TEST PHOTO | 73 |
| APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS | |

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C | | | |
|----------------------------------------|----------------------------|-----------------|---------------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | PASS | |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | |
| 15.247 (b) | Peak Output Power | PASS | |
| 15.247 (c) | Radiated Spurious Emission | PASS | |
| 15.247 (d) | Power Spectral Density | PASS | |
| 15.205 | Band Edge Emission | PASS | |
| 15.203 | Antenna Requirement | PASS | |

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

BZT Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

| No. | Item | Uncertainty |
|-----|------------------------------|---------------------------|
| 1 | Conducted Emission Test | $\pm 1.38\text{dB}$ |
| 2 | RF power,conducted | $\pm 0.16\text{dB}$ |
| 3 | Spurious emissions,conducted | $\pm 0.21\text{dB}$ |
| 4 | All emissions,radiated(<1G) | $\pm 4.68\text{dB}$ |
| 5 | All emissions,radiated(>1G) | $\pm 4.89\text{dB}$ |
| 6 | Temperature | $\pm 0.5^{\circ}\text{C}$ |
| 7 | Humidity | $\pm 2\%$ |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment | HDMI WiFi Dongle | |
| Trade Name | N/A | |
| Model Name | 1361-001(HDM-WIFI-AD01) | |
| Serial Model | 1361-005(HDM-WIFI-AD01B),1361-020(HDM-WIFI-AD02), 1361-030(HDM-WIFI-AD02B),1361-040(HDM-WIFI-AD03), 1361-050(HDM-WIFI-AD03B),1361-060(HDM-WIFIBX-AD01), 1361-070(HDM-WIFIBX-AD01B),1361-080(HDM-WIFIAV-AD0 1), 1361-090(HDM-WIFIAV-AD01B) | |
| Model Difference | All model's the function, software and electric circuit are the same , only with a product color and model named different. The test mode is 1361-001(HDM-WIFI-AD01). | |
| Product Description | The EUT is a HDMI WiFi Dongle | |
| | Operation Frequency: | 802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz |
| | Modulation Type: | CCK/OFDM/DBPSK/DAPSK |
| | Bit Rate of Transmitter | 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/ 130/117/115.56/104/86.67/78/52/6.5 Mbps |
| | Number Of Channel | 802.11b/g/n20: 11CH 802.11n 40: 7CH |
| | Antenna Designation: | Please see Note 3. |
| | Peak Output Power(Conducted): | 802.11b: 9.43 dBm (Max.) 802.11g: 8.89 dBm (Max.) 802.11n(20MHz): 8.53 dBm (Max.) 802.11n(40MHz): 8.04 dBm (Max.) |
| | Antenna Gain (dBi) | 0 dBi |
| | Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. | |
| | Channel List | Please refer to the Note 2. |
| Ratings | DC 5V from PC with AC 120V/60Hz | |
| Adapter | N/A | |
| Battery | N/A | |
| Connecting I/O Port(s) | Please refer to the User's Manual | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

| Channel List for 802.11b/g/n(20MHz) | | | | | | | |
|-------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 2412 | 04 | 2427 | 07 | 2442 | 10 | 2457 |
| 02 | 2417 | 05 | 2432 | 08 | 2447 | 11 | 2462 |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | | |

| Channel List for 802.11n(40MHz) | | | | | | | |
|---------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | | |
| 04 | 2427 | 07 | 2442 | | | | |
| 05 | 2432 | 08 | 2447 | | | | |

3.

Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|-----|-------|------------|------------------|-----------|------------|------|
| A | N/A | N/A | Integral Antenna | N/A | 0 | N/A |

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|---------------------------|
| Mode 1 | 802.11b CH1/ CH6/ CH11 |
| Mode 2 | 802.11g CH1/ CH6/ CH11 |
| Mode 3 | 802.11n(20)CH1/ CH6/ CH11 |
| Mode 4 | 802.11n(40) CH3/ CH6/ CH9 |
| Mode 5 | Link Mode |

| For Conducted Emission | |
|------------------------|-------------|
| Final Test Mode | Description |
| Mode 5 | Link Mode |

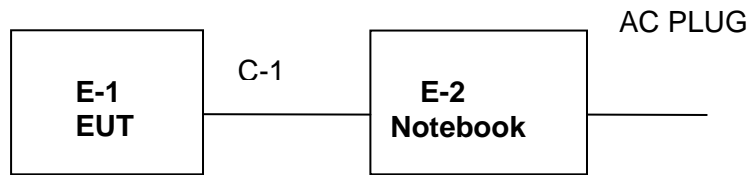
| For Radiated Emission | |
|-----------------------|---------------------------|
| Final Test Mode | Description |
| Mode 1 | 802.11b CH1/ CH6/ CH11 |
| Mode 2 | 802.11g CH1/ CH6/ CH11 |
| Mode 3 | 802.11n CH1/ CH6/ CH11 |
| Mode 4 | 802.11n(40) CH3/ CH6/ CH9 |
| Mode 5 | Link Mode |

Note:

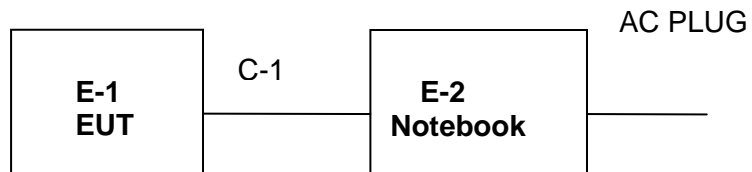
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Measurement:



Radiated Measurement:



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|------------------|-----------|-------------------------|------------|------|
| E-1 | HDMI WiFi Dongle | Axess | 1361-001(HDM-WIFI-AD01) | N/A | EUT |
| E-2 | <i>Notebook</i> | Acer | 4552G | N/A | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|-----------|
| C-1 | NO | NO | 1.4m | Usb cable |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|--------------------|--------------|-------------|--------------|------------------|------------------|--------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | MY45108040 | 2013.07.06 | 2014.07.05 | 1 year |
| 2 | Test Receiver | R&S | ESPI | 101318 | 2013.07.06 | 2014.07.05 | 1 year |
| 3 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2013.08.12 | 2014.08.11 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2013.07.06 | 2014.07.05 | 1 year |
| 5 | Spectrum Analyzer | ADVANTEST | R3132 | 150900201 | 2013.07.06 | 2014.07.05 | 1 year |
| 6 | Horn Antenna | EM | EM-AH-10180 | 2011071402 | 2013.08.12 | 2014.08.11 | 1 year |
| 7 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2013.08.12 | 2014.08.11 | 1 year |
| 8 | Amplifier | EM | EM-30180 | 060538 | 2013.07.06 | 2014.07.05 | 1 year |
| 9 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2013.08.12 | 2014.08.11 | 1 year |
| 10 | Power Meter | R&S | NRVS | 100696 | 2013.06.21 | 2014.06.20 | 1 year |
| 11 | Power Sensor | R&S | URV5-Z4 | 0395.1619.05 | 2013.06.21 | 2014.06.20 | 1 year |

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-----------------------|--------------|----------|------------|------------------|------------------|--------------------|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2013.07.06 | 2014.07.05 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2013.07.06 | 2014.07.05 | 1 year |
| 3 | LISN | EMCO | 3816/2 | 00042990 | 2013.07.06 | 2014.07.05 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2013.07.06 | 2014.07.05 | 1 year |
| 5 | Passive Voltage Probe | R&S | ESH2-Z3 | 100196 | 2013.07.06 | 2014.07.05 | 1 year |
| 6 | Absorbing clamp | R&S | MOS-21 | 100423 | 2013.07.06 | 2014.07.05 | 1 year |

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
| | Quasi-peak | Average | Quasi-peak | Average | |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | CISPR |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | CISPR |

| | | | | | |
|-----------|-------|-------|-----------|-----------|-----|
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

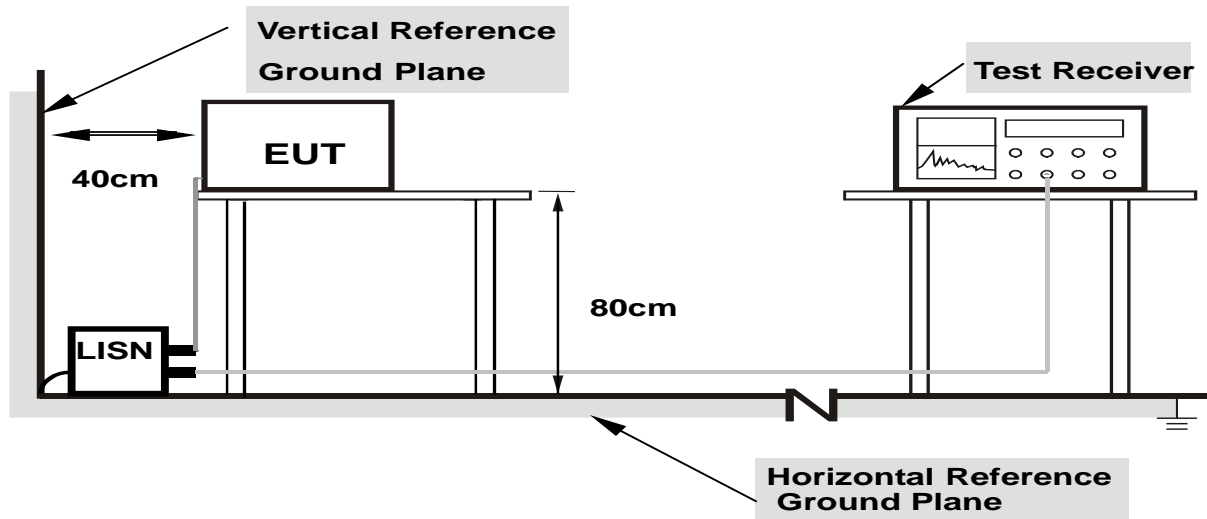
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

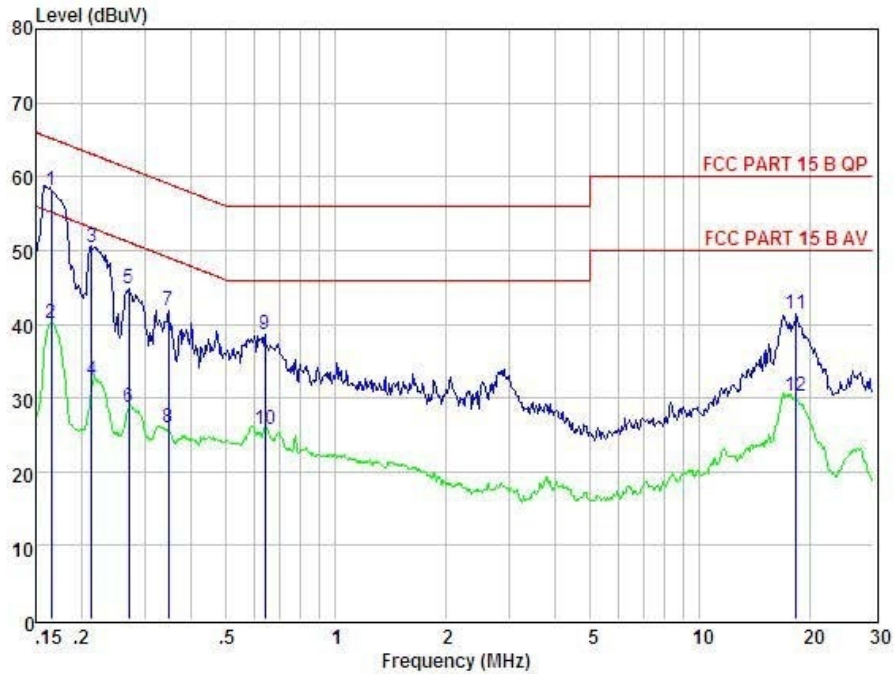
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

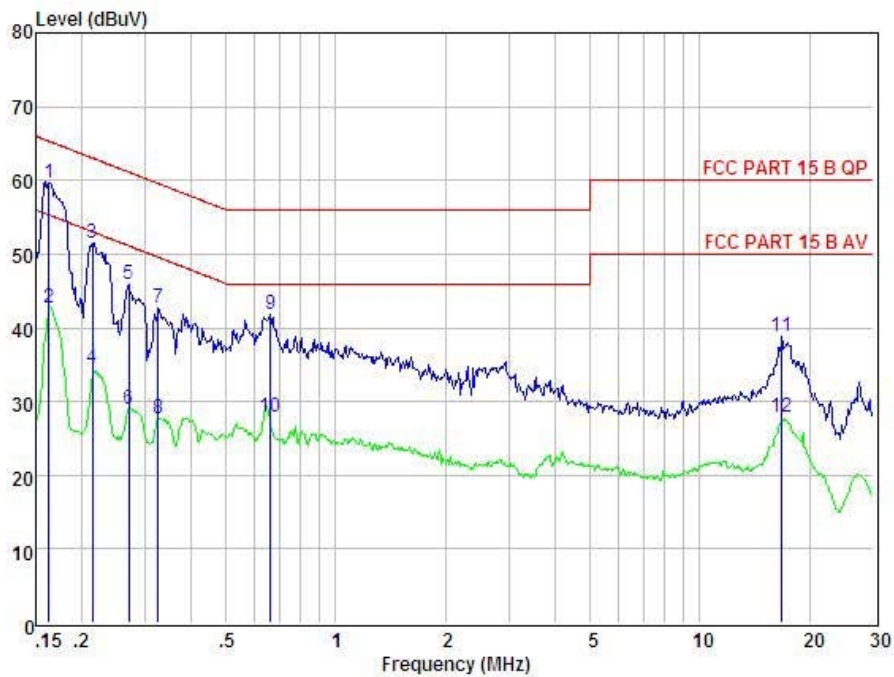
| | | | |
|----------------|---------------------------------|---------------------|--------------------------|
| EUT : | HDMI WiFi Dongle | Model Name. : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | L |
| Test Voltage : | DC 5V from PC with AC 120V/60Hz | Test Mode : | Mode 5 |



| Item | Freq MHz | Read dBuV | LISN Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|--------------|----------------------|------------------------|---------------------|---------------|---------------|----------------|---------|
| 1 | 0.165 | 48.28 | 0.03 | -9.72 | 0.10 | 58.13 | 65.21 | -7.08 | QP |
| 2 | 0.165 | 30.28 | 0.03 | -9.72 | 0.10 | 40.13 | 55.21 | -15.08 | Average |
| 3 | 0.214 | 40.63 | 0.03 | -9.72 | 0.10 | 50.48 | 63.05 | -12.57 | QP |
| 4 | 0.214 | 22.63 | 0.03 | -9.72 | 0.10 | 32.48 | 53.05 | -20.57 | Average |
| 5 | 0.270 | 34.94 | 0.03 | -9.72 | 0.10 | 44.79 | 61.12 | -16.33 | QP |
| 6 | 0.270 | 18.94 | 0.03 | -9.72 | 0.10 | 28.79 | 51.12 | -22.33 | Average |
| 7 | 0.346 | 32.06 | 0.03 | -9.72 | 0.10 | 41.91 | 59.05 | -17.14 | QP |
| 8 | 0.346 | 16.06 | 0.03 | -9.72 | 0.10 | 25.91 | 49.05 | -23.14 | Average |
| 9 | 0.641 | 28.80 | 0.03 | -9.72 | 0.10 | 38.65 | 56.00 | -17.35 | QP |
| 10 | 0.641 | 15.80 | 0.03 | -9.72 | 0.10 | 25.65 | 46.00 | -20.35 | Average |
| 11 | 18.426 | 31.23 | 0.29 | -9.46 | 0.32 | 41.30 | 60.00 | -18.70 | QP |
| 12 | 18.426 | 20.23 | 0.29 | -9.46 | 0.32 | 30.30 | 50.00 | -19.70 | Average |

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

| | | | |
|----------------|---------------------------------|---------------------|-------------------------|
| EUT : | HDMI WiFi Dongle | Model Name. : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | N |
| Test Voltage : | DC 5V from PC with AC 120V/60Hz | Test Mode : | Mode 5 |



| Condition : FCC PART 15 B QP | | | | | | | | | |
|----------------------------------|--------|-------|--------|--------|-------|-------|-------|--------|---------|
| POL: NEUTRAL Temp:24 °C Hum:56 % | | | | | | | | | |
| Item | Freq | Read | LISN | Preamp | Cable | Level | Limit | Margin | Remark |
| | MHz | dBuV | Factor | Factor | Loss | dBuV | dBuV | dBuV | |
| | | | dB | dB | dB | | | | |
| 1 | 0.163 | 49.78 | 0.03 | -9.72 | 0.10 | 59.63 | 65.30 | -5.67 | QP |
| 2 | 0.163 | 32.78 | 0.03 | -9.72 | 0.10 | 42.63 | 55.30 | -12.67 | Average |
| 3 | 0.215 | 41.64 | 0.03 | -9.72 | 0.10 | 51.49 | 63.01 | -11.52 | QP |
| 4 | 0.215 | 24.64 | 0.03 | -9.72 | 0.10 | 34.49 | 53.01 | -18.52 | Average |
| 5 | 0.270 | 36.01 | 0.03 | -9.72 | 0.10 | 45.86 | 61.12 | -15.26 | QP |
| 6 | 0.270 | 19.01 | 0.03 | -9.72 | 0.10 | 28.86 | 51.12 | -22.26 | Average |
| 7 | 0.325 | 32.73 | 0.03 | -9.72 | 0.10 | 42.58 | 59.57 | -16.99 | QP |
| 8 | 0.325 | 17.73 | 0.03 | -9.72 | 0.10 | 27.58 | 49.57 | -21.99 | Average |
| 9 | 0.661 | 32.06 | 0.04 | -9.72 | 0.10 | 41.92 | 56.00 | -14.08 | QP |
| 10 | 0.661 | 18.06 | 0.04 | -9.72 | 0.10 | 27.92 | 46.00 | -18.08 | Average |
| 11 | 16.839 | 28.81 | 0.27 | -9.42 | 0.29 | 38.79 | 60.00 | -21.21 | QP |
| 12 | 16.839 | 17.81 | 0.27 | -9.42 | 0.29 | 27.79 | 50.00 | -22.21 | Average |

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3M) | | Class B (dBuV/m) (at 3M) | |
|-----------------|--------------------------|---------|--------------------------|---------|
| | PEAK | AVERAGE | PEAK | AVERAGE |
| Above 1000 | 80 | 60 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

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

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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 Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

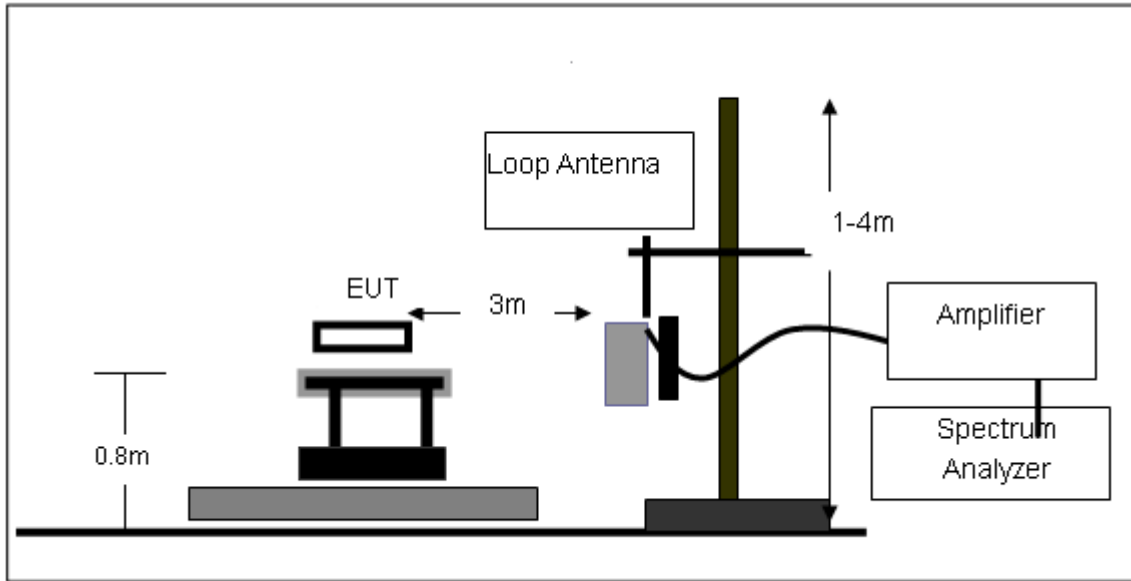
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

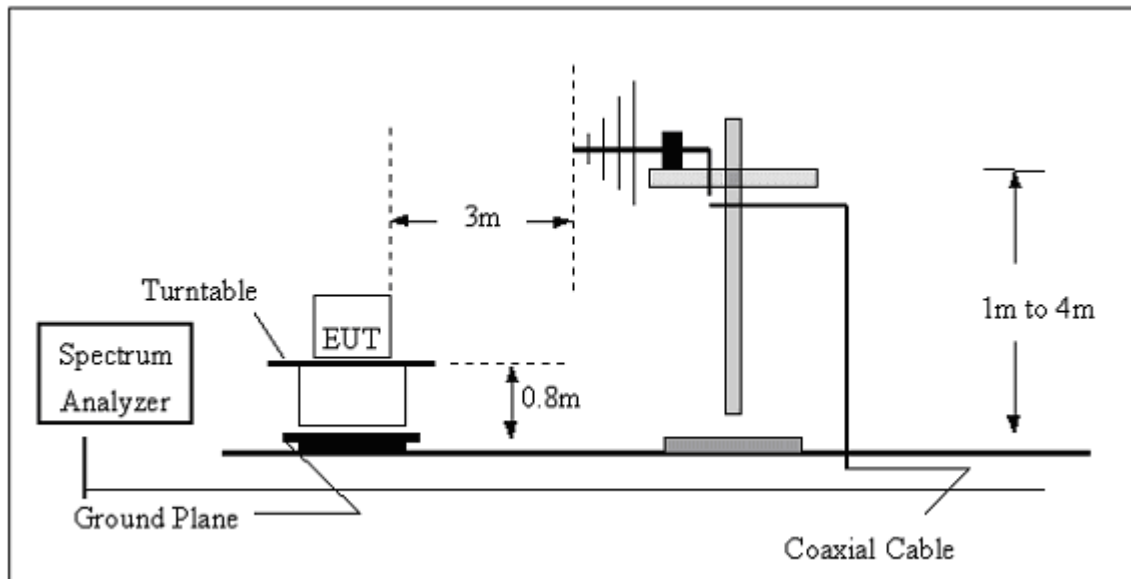
No deviation

3.2.4 TEST SETUP

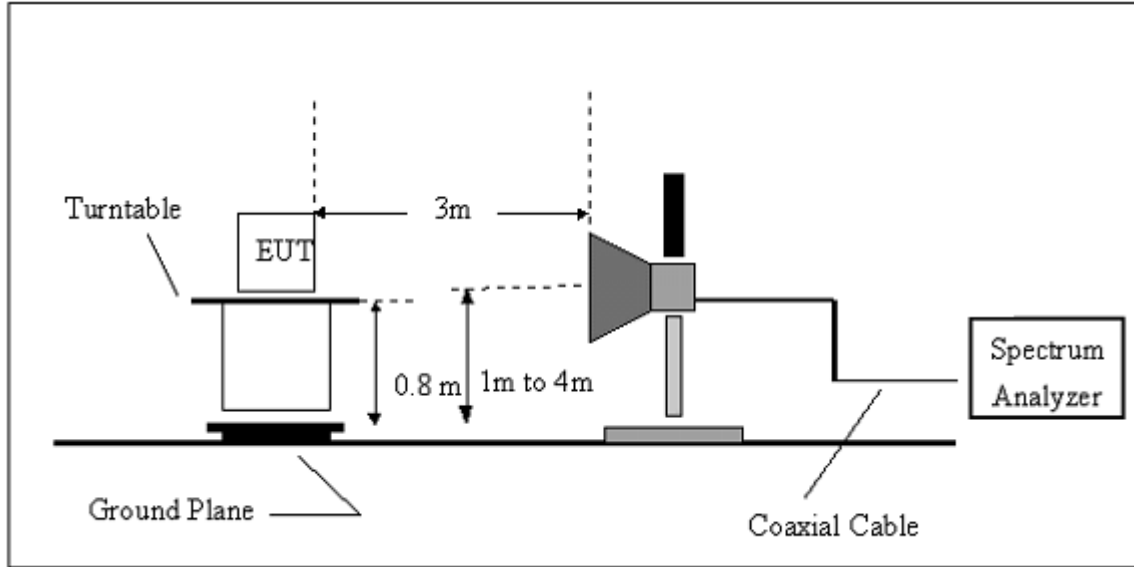
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

| | | | |
|--------------|------------------|--------------------|---------------------------------|
| EUT: | HDMI WiFi Dongle | Model Name. : | 1361-001(HDM-WIFI-A D01) |
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Pressure: | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | Link mode | Polarization : | -- |

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State P/F |
|----------------|---------------------|-------------------|----------------|--------------|
| -- | -- | -- | -- | PASS |
| -- | -- | -- | -- | PASS |

NOTE:

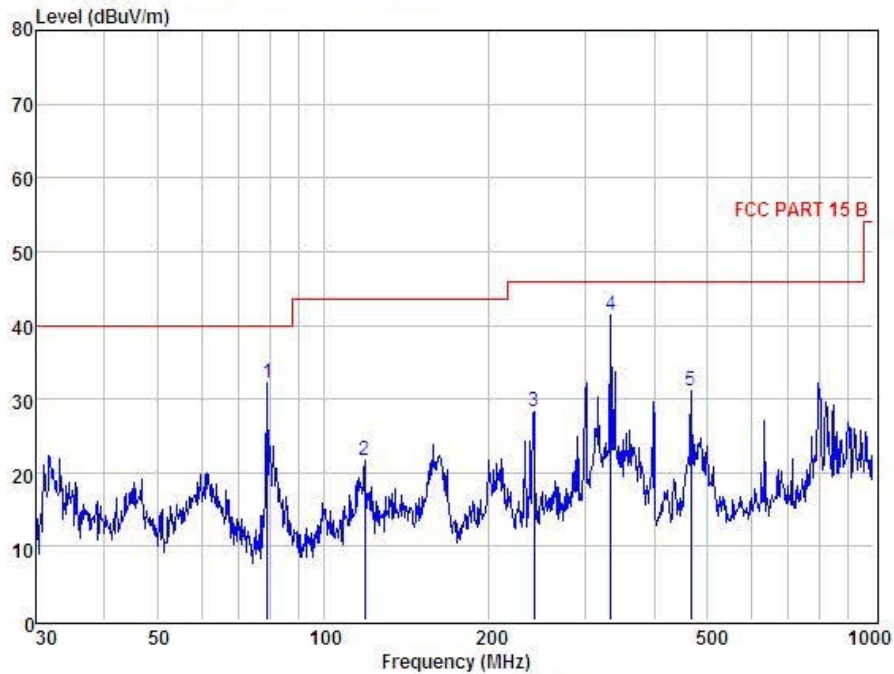
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

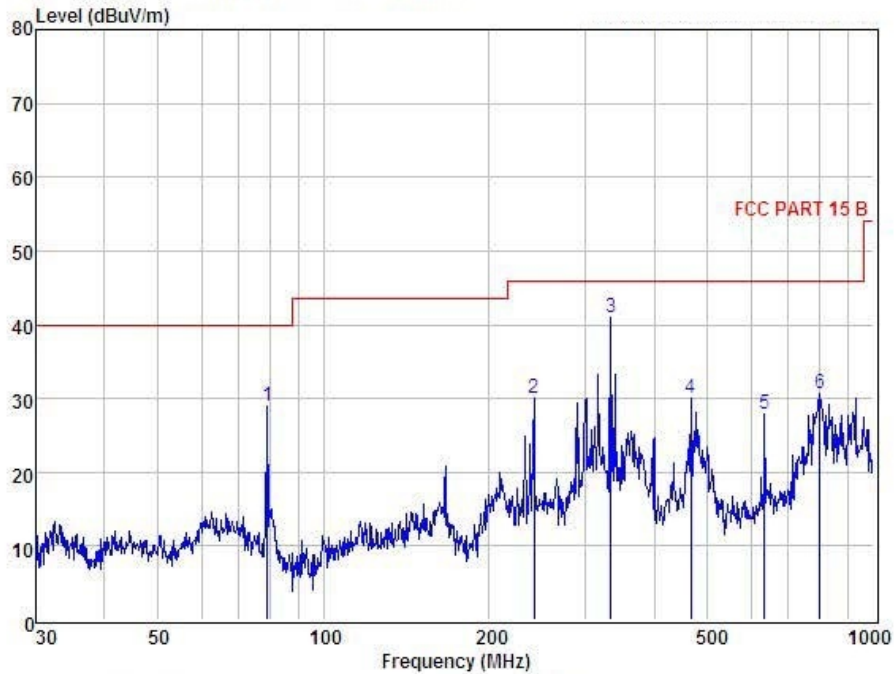
| | | | |
|---------------|------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | Link mode | Polarization : | Horizontal |



| Condition : FCC PART 15 B 3m POL: HORIZONTAL | | | | | | | | | |
|----------------------------------------------|--------|------------|----------------|---------------|------------|-------|-------|--------|--------|
| Item | Freq | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Level | Limit | Margin | Remark |
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV | dBuV | |
| 1 | 78.97 | 49.27 | 9.29 | 26.79 | 0.31 | 32.08 | 40.00 | -7.92 | QP |
| 2 | 119.02 | 36.06 | 12.06 | 26.88 | 0.33 | 21.57 | 43.50 | -21.93 | QP |
| 3 | 241.68 | 43.44 | 11.47 | 27.09 | 0.53 | 28.35 | 46.00 | -17.65 | QP |
| 4 | 333.69 | 54.30 | 13.55 | 27.24 | 0.81 | 41.42 | 46.00 | -4.58 | QP |
| 5 | 465.60 | 41.71 | 16.11 | 27.53 | 0.88 | 31.17 | 46.00 | -14.83 | QP |

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

| | | | |
|---------------|------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | Link mode | Polarization : | Vertical |



| Condition : FCC PART 15 B 3m POL: VERTICAL | | | | | | | | | |
|--------------------------------------------|-------------|-----------------------|-------------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
| 1 | 78.97 | 46.17 | 9.29 | 26.79 | 0.31 | 28.98 | 40.00 | -11.02 | QP |
| 2 | 241.68 | 45.16 | 11.47 | 27.09 | 0.53 | 30.07 | 46.00 | -15.93 | QP |
| 3 | 333.69 | 53.94 | 13.55 | 27.24 | 0.81 | 41.06 | 46.00 | -4.94 | QP |
| 4 | 465.60 | 40.55 | 16.11 | 27.53 | 0.88 | 30.01 | 46.00 | -15.99 | QP |
| 5 | 633.91 | 35.51 | 18.90 | 27.82 | 1.23 | 27.82 | 46.00 | -18.18 | QP |
| 6 | 798.98 | 36.08 | 20.69 | 27.65 | 1.49 | 30.61 | 46.00 | -15.39 | QP |

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

3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH1 (802.11b Mode)/2412 | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.15 | 45.13 | 10.44 | 55.57 | 74 | -18.43 | peak |
| 4824.15 | 31.84 | 10.44 | 42.28 | 54 | -11.72 | AVG |
| 7236.149 | 43.67 | 12.39 | 56.06 | 74 | -17.94 | peak |
| 7236.149 | 30.96 | 12.39 | 43.35 | 54 | -10.65 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH1 (802.11b Mode)/2412 | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.145 | 47.08 | 10.4 | 57.48 | 74 | -16.52 | peak |
| 4874.145 | 32.76 | 10.4 | 43.16 | 54 | -10.84 | AVG |
| 7311.163 | 43.72 | 12.75 | 56.47 | 74 | -17.53 | peak |
| 7311.163 | 31.71 | 12.75 | 44.46 | 54 | -9.54 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6 (802.11b Mode)/2437 | Polarization : | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 4874.159 | 46.34 | 10.4 | 56.74 | 74 | -17.26 | peak |
| 4874.159 | 30.42 | 10.4 | 40.82 | 54 | -13.18 | AVG |
| 7311.136 | 41.81 | 12.75 | 54.56 | 74 | -19.44 | peak |
| 7311.136 | 29.89 | 12.75 | 42.64 | 54 | -11.36 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6 (802.11b Mode)/2437 | Polarization : | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 4924.146 | 45.07 | 10.39 | 55.46 | 74 | -18.54 | peak |
| 4934.146 | 31.25 | 10.44 | 41.69 | 54 | -12.31 | AVG |
| 7386.143 | 42.06 | 12.68 | 54.74 | 74 | -19.26 | peak |
| 7386.143 | 29.74 | 12.68 | 42.42 | 54 | -11.58 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. No emission detected above 18GHz

| | | | |
|---------------|--------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH11 (802.11b Mode)/2462 | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4924.145 | 45.26 | 10.39 | 55.65 | 74 | -18.35 | peak |
| 4924.145 | 31.92 | 10.39 | 42.31 | 54 | -11.69 | AVG |
| 7386.142 | 41.58 | 12.68 | 54.26 | 74 | -19.74 | peak |
| 7386.142 | 29.17 | 12.68 | 41.85 | 54 | -12.15 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
 1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 2. No emission detected above 18GHz

| | | | |
|---------------|--------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH11 (802.11b Mode)/2462 | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4924.122 | 43.93 | 10.39 | 54.32 | 74 | -19.68 | peak |
| 4924.122 | 32.12 | 10.39 | 42.51 | 54 | -11.49 | AVG |
| 7386.143 | 43.74 | 12.68 | 56.42 | 74 | -17.58 | peak |
| 7386.143 | 30.86 | 12.68 | 43.54 | 54 | -10.46 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH1 (802.11g Mode)/2412 | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.17 | 44.00 | 10.44 | 54.44 | 74 | -19.56 | peak |
| 4824.17 | 31.42 | 10.44 | 41.86 | 54 | -12.14 | AVG |
| 7236.224 | 43.24 | 12.39 | 55.63 | 74 | -18.37 | peak |
| 7236.224 | 31.66 | 12.39 | 44.05 | 54 | -9.95 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH1 (802.11g Mode)/2412 | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.155 | 43.50 | 10.44 | 53.94 | 74 | -20.06 | peak |
| 4824.155 | 30.99 | 10.44 | 41.43 | 54 | -12.57 | AVG |
| 7236.142 | 43.15 | 12.39 | 55.54 | 74 | -18.46 | peak |
| 7236.142 | 30.44 | 12.39 | 42.83 | 54 | -11.17 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6 (802.11g Mode)/2437 | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.14 | 42.17 | 10.4 | 52.57 | 74 | -21.43 | peak |
| 4874.14 | 30.34 | 10.4 | 40.74 | 54 | -13.26 | AVG |
| 7311.17 | 41.67 | 12.75 | 54.42 | 74 | -19.58 | peak |
| 7311.17 | 30.20 | 12.75 | 42.95 | 54 | -11.05 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6 (802.11g Mode)/2437 | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.158 | 44.03 | 10.4 | 54.43 | 74 | -19.57 | peak |
| 4874.158 | 32.95 | 10.4 | 43.35 | 54 | -10.65 | AVG |
| 7311.137 | 42.42 | 12.75 | 55.17 | 74 | -18.83 | peak |
| 7311.137 | 31.40 | 12.75 | 44.15 | 54 | -9.85 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|--------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH11 (802.11g Mode)/2462 | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4924.138 | 46.08 | 10.39 | 56.47 | 74 | -17.53 | peak |
| 4924.138 | 34.77 | 10.39 | 45.16 | 54 | -8.84 | AVG |
| 7386.149 | 41.79 | 12.68 | 54.47 | 74 | -19.53 | peak |
| 7386.149 | 30.47 | 12.68 | 43.15 | 54 | -10.85 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH11(802.11g Mode)/2462 | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4924.148 | 44.03 | 10.39 | 54.42 | 74 | -19.58 | peak |
| 4924.148 | 34.04 | 10.39 | 44.43 | 54 | -9.57 | AVG |
| 7386.13 | 42.79 | 12.68 | 55.47 | 74 | -18.53 | peak |
| 7386.13 | 32.73 | 12.68 | 45.41 | 54 | -8.59 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH1(802.11n Mode)/20MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4824.14 | 42.92 | 10.44 | 53.36 | 74 | -20.64 | peak |
| 4824.14 | 33.17 | 10.44 | 43.61 | 54 | -10.39 | AVG |
| 7236.122 | 42.07 | 12.39 | 54.46 | 74 | -19.54 | peak |
| 7236.122 | 32.66 | 12.39 | 45.05 | 54 | -8.95 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH1(802.11n Mode)/20MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4824.141 | 44.93 | 10.44 | 55.37 | 74 | -18.63 | peak |
| 4824.141 | 33.10 | 10.44 | 43.54 | 54 | -10.46 | AVG |
| 7236.145 | 41.47 | 12.39 | 53.86 | 74 | -20.14 | peak |
| 7236.145 | 30.26 | 12.39 | 42.65 | 54 | -11.35 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6(802.11n Mode)/20MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4874.16 | 44.02 | 10.4 | 54.42 | 74 | -19.58 | peak |
| 4874.16 | 32.84 | 10.4 | 43.24 | 54 | -10.76 | AVG |
| 7311.128 | 42.78 | 12.75 | 55.53 | 74 | -18.47 | peak |
| 7311.128 | 31.53 | 12.75 | 44.28 | 54 | -9.72 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6(802.11n Mode)/20MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4874.161 | 42.97 | 10.4 | 53.37 | 74 | -20.63 | peak |
| 4874.161 | 31.66 | 10.4 | 42.06 | 54 | -11.94 | AVG |
| 7311.166 | 41.79 | 12.75 | 54.54 | 74 | -19.46 | peak |
| 7311.166 | 30.41 | 12.75 | 43.16 | 54 | -10.84 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|--------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH11(802.11n Mode)/20MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4924.14 | 44.03 | 10.39 | 54.42 | 74 | -19.58 | peak |
| 4924.14 | 32.12 | 10.39 | 42.51 | 54 | -11.49 | AVG |
| 7386.183 | 42.73 | 12.68 | 55.41 | 74 | -18.59 | peak |
| 7386.183 | 30.53 | 12.68 | 43.21 | 54 | -10.79 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|--------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH11(802.11n Mode)/20MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4924.15 | 43.16 | 10.39 | 53.55 | 74 | -20.45 | peak |
| 4924.15 | 32.04 | 10.39 | 42.43 | 54 | -11.57 | AVG |
| 7386.167 | 41.86 | 12.68 | 54.54 | 74 | -19.46 | peak |
| 7386.167 | 30.40 | 12.68 | 43.08 | 54 | -10.92 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH3(802.11n Mode)/40MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4844.156 | 43.81 | 10.5 | 54.31 | 74 | -19.69 | peak |
| 4844.156 | 32.12 | 10.5 | 42.62 | 54 | -11.38 | AVG |
| 7266.319 | 40.46 | 12.5 | 52.96 | 74 | -21.04 | peak |
| 7266.319 | 28.64 | 12.5 | 41.14 | 54 | -12.86 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH3(802.11n Mode)/40MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4844.325 | 44.05 | 10.5 | 54.55 | 74 | -19.45 | peak |
| 4844.325 | 33.76 | 10.5 | 44.26 | 54 | -9.74 | AVG |
| 7266.258 | 40.87 | 12.5 | 53.37 | 74 | -20.63 | peak |
| 7266.258 | 29.67 | 12.5 | 42.17 | 54 | -11.83 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6(802.11n Mode)/40MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4874.238 | 42.06 | 10.4 | 52.46 | 74 | -21.54 | peak |
| 4874.238 | 32.85 | 10.4 | 43.25 | 54 | -10.75 | AVG |
| 7311.159 | 40.90 | 12.75 | 53.65 | 74 | -20.35 | peak |
| 7311.159 | 31.90 | 12.75 | 44.65 | 54 | -9.35 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH6(802.11n Mode)/40MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4874.535 | 42.06 | 10.4 | 52.46 | 74 | -21.54 | peak |
| 4874.535 | 31.71 | 10.4 | 42.11 | 54 | -11.89 | AVG |
| 7311.633 | 41.60 | 12.75 | 54.35 | 74 | -19.65 | peak |
| 7311.633 | 32.50 | 12.75 | 45.25 | 54 | -8.75 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH9(802.11n Mode)/40MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4904.345 | 42.38 | 10.29 | 52.67 | 74 | -21.33 | peak |
| 4904.345 | 33.34 | 10.29 | 43.63 | 54 | -10.37 | AVG |
| 7356.247 | 40.27 | 12.79 | 53.06 | 74 | -20.94 | peak |
| 7356.247 | 31.62 | 12.79 | 44.41 | 54 | -9.59 | AVG |
| | | | | | | |
| | | | | | | |

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|---------------|-------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | CH9(802.11n Mode)/40MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4904.16 | 42.24 | 10.29 | 52.53 | 74 | -21.47 | peak |
| 4904.16 | 31.82 | 10.29 | 42.11 | 54 | -11.89 | AVG |
| 7356.423 | 42.59 | 12.79 | 55.38 | 74 | -18.62 | peak |
| 7356.423 | 30.75 | 12.79 | 43.54 | 54 | -10.46 | AVG |
| | | | | | | |
| | | | | | | |

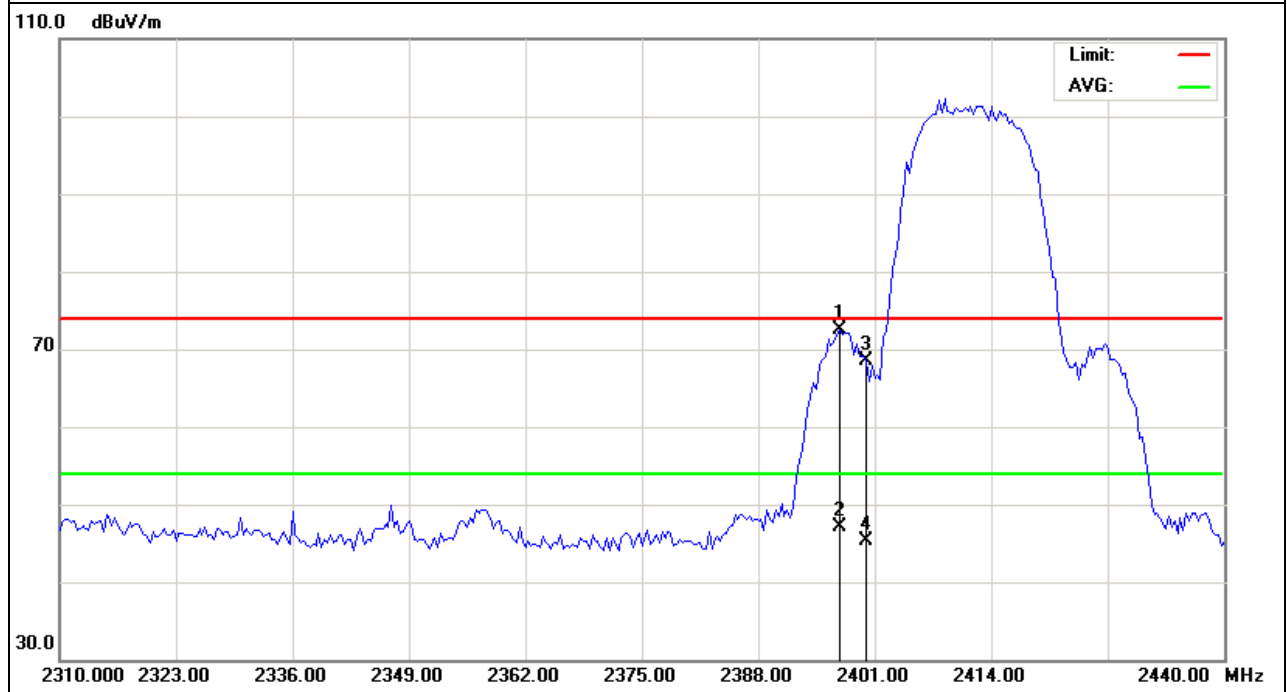
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

| | | | |
|---------------|-------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH1(802.11b Mode) | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2397.1 | 84.61 | -13.02 | 71.59 | 74 | -2.41 | peak |
| 2397.1 | 59.79 | -13.02 | 46.77 | 54 | -7.23 | AVG |
| 2400 | 80.90 | -12.99 | 67.91 | 74 | -6.09 | peak |
| 2400 | 58.45 | -12.99 | 45.46 | 54 | -8.54 | AVG |
| | | | | | | |
| | | | | | | |

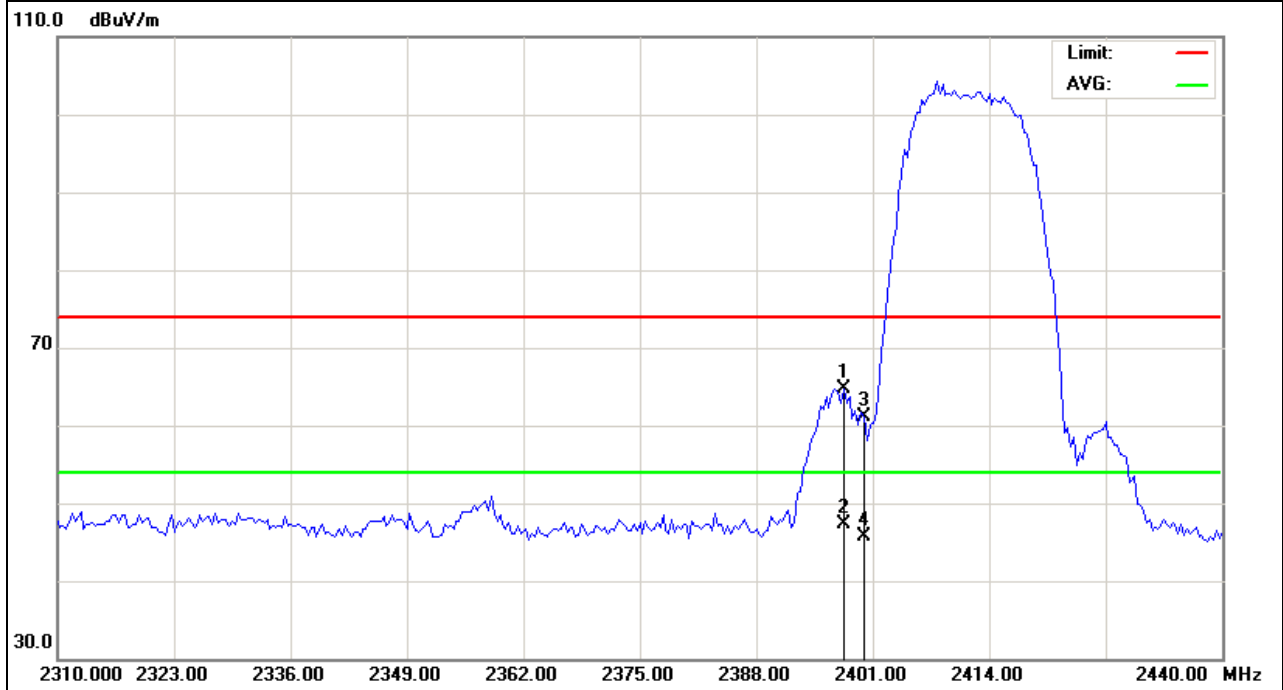
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH1(802.11b Mode) | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2397.75 | 78.31 | -13 | 65.31 | 74 | -8.69 | peak |
| 2397.75 | 59.53 | -13 | 46.53 | 54 | -7.47 | AVG |
| 2400 | 75.64 | -12.99 | 62.65 | 74 | -11.35 | peak |
| 2400 | 58.12 | -12.99 | 45.13 | 54 | -8.87 | AVG |
| | | | | | | |
| | | | | | | |

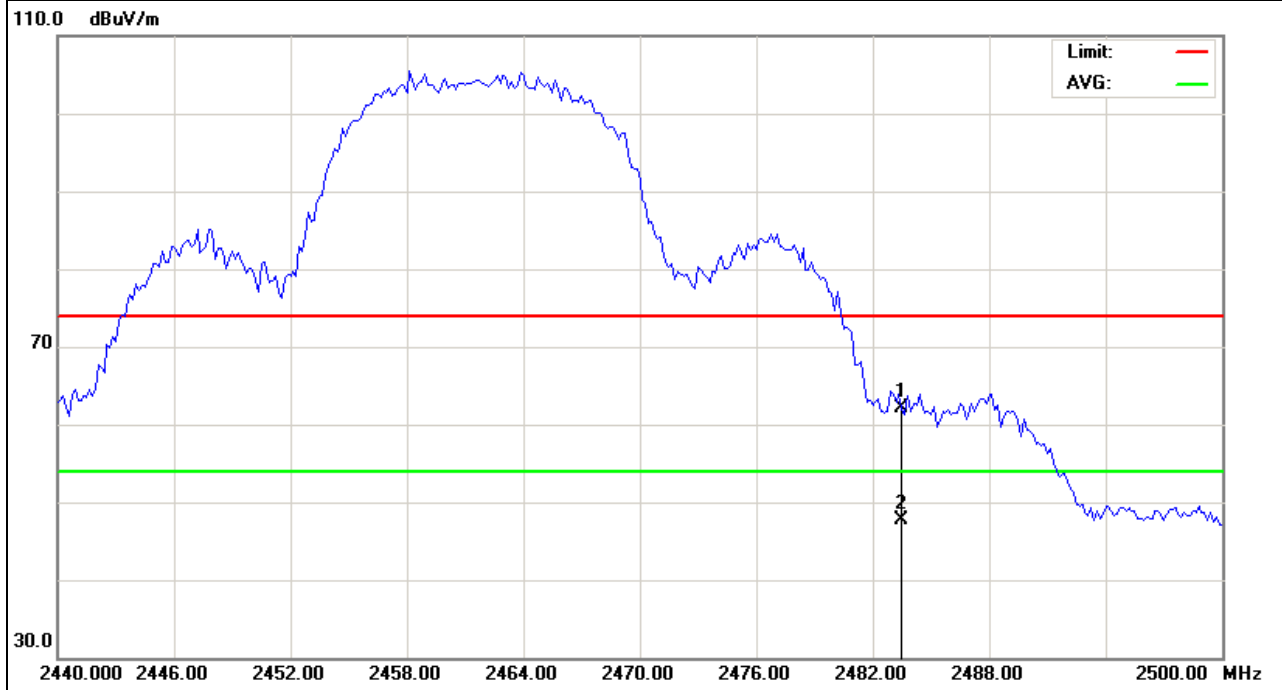
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|--------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH11(802.11b Mode) | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 74.15 | -12.78 | 61.37 | 74 | -12.63 | peak |
| 2483.5 | 58.84 | -12.78 | 46.06 | 54 | -7.94 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

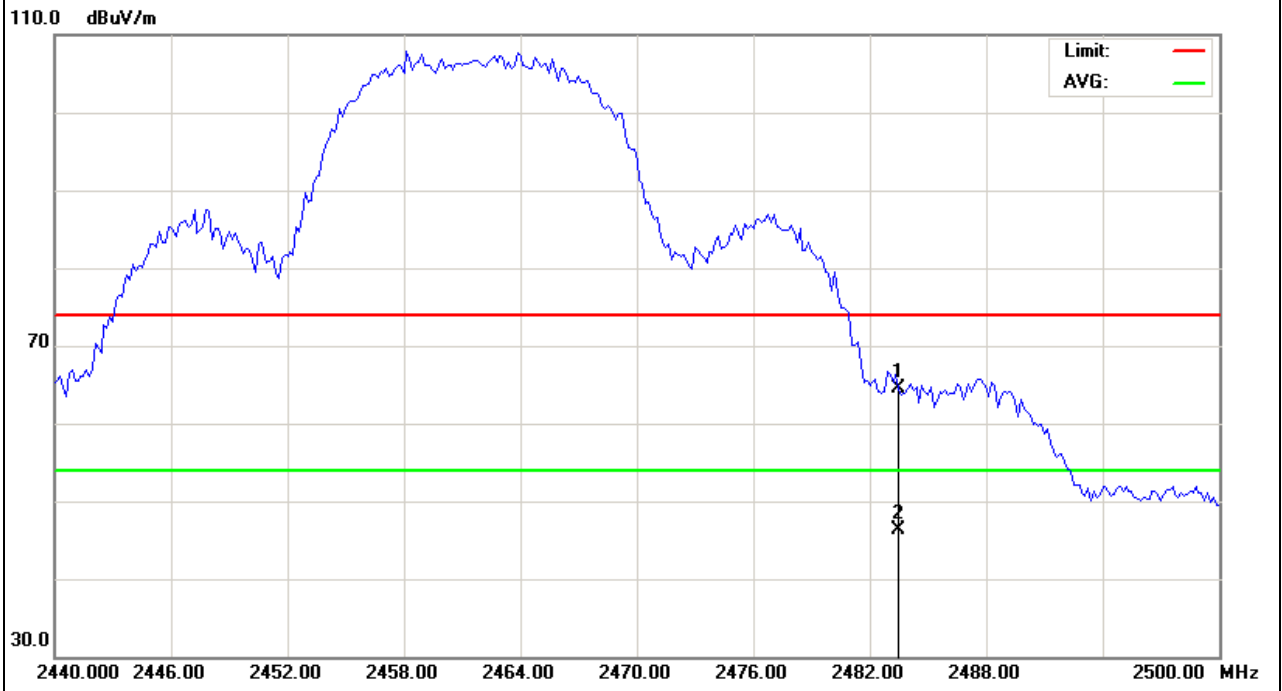
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|--------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH11(802.11b Mode) | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 76.42 | -12.78 | 63.64 | 74 | -10.36 | peak |
| 2483.5 | 60.03 | -12.78 | 47.25 | 54 | -6.75 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

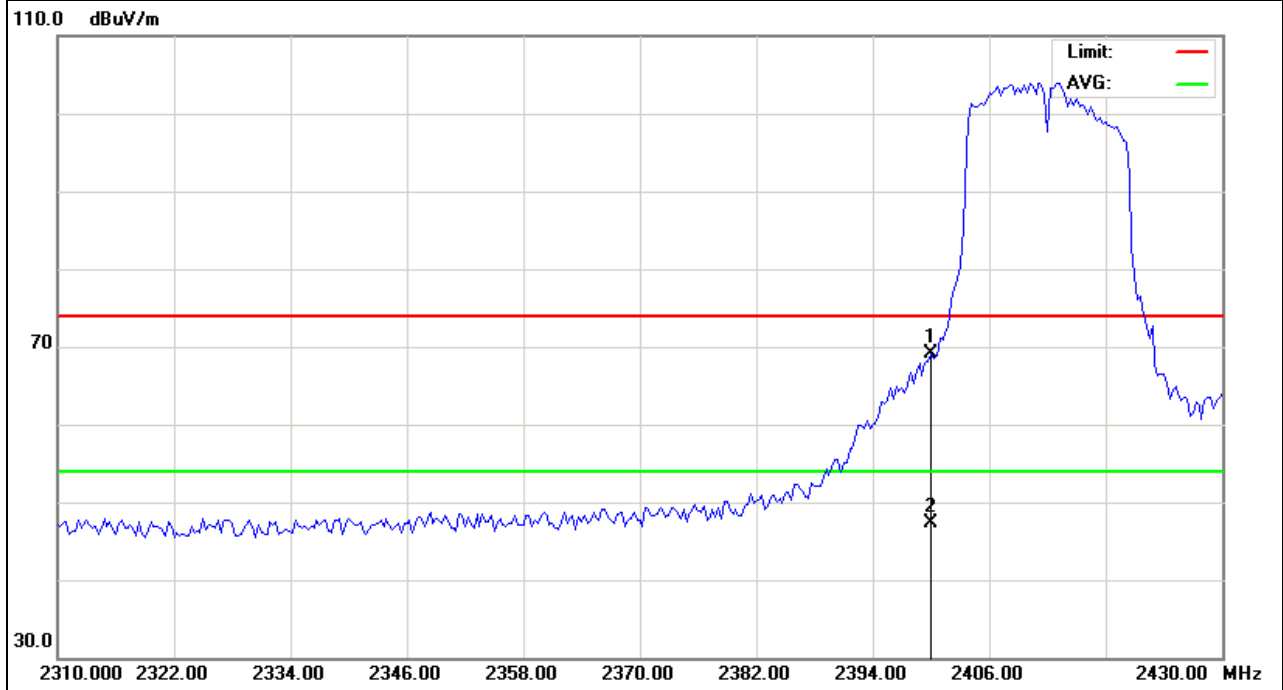
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH1(802.11g Mode) | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2400 | 82.97 | -12.99 | 69.98 | 74 | -4.02 | peak |
| 2400 | 61.51 | -12.99 | 48.52 | 54 | -5.48 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

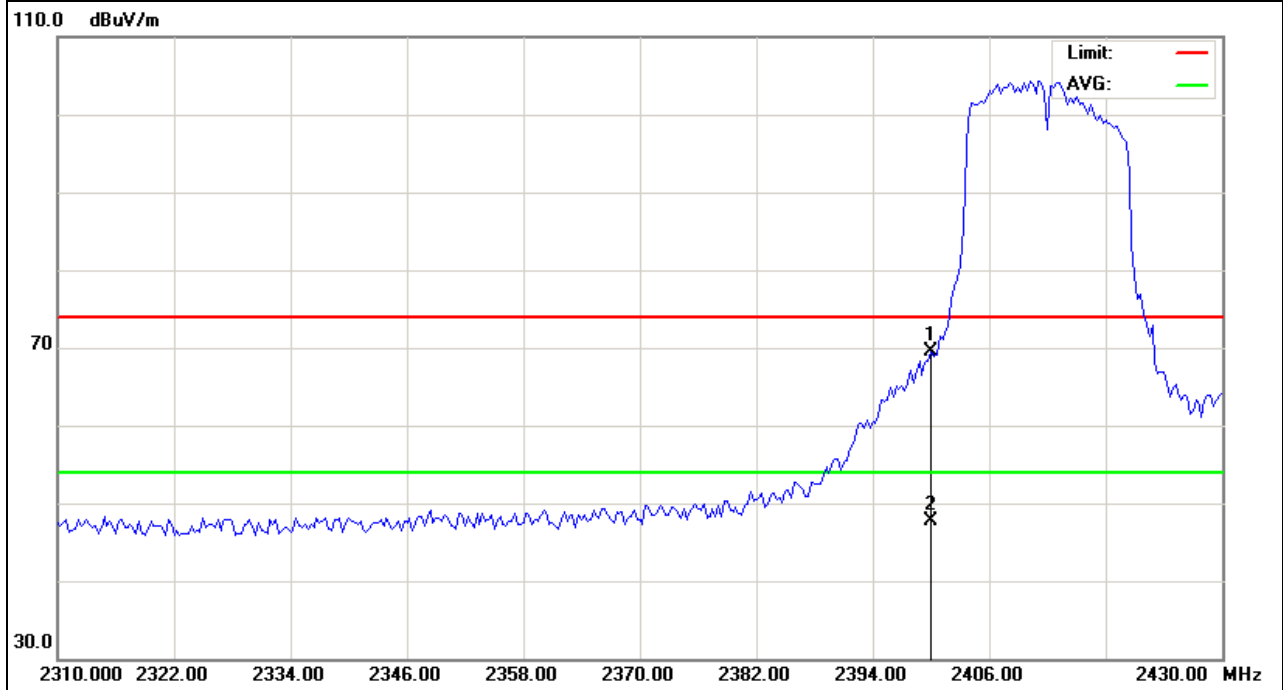
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH1(802.11gMode) | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2400 | 82.06 | -12.99 | 69.07 | 74 | -4.93 | peak |
| 2400 | 60.35 | -12.99 | 47.36 | 54 | -6.64 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

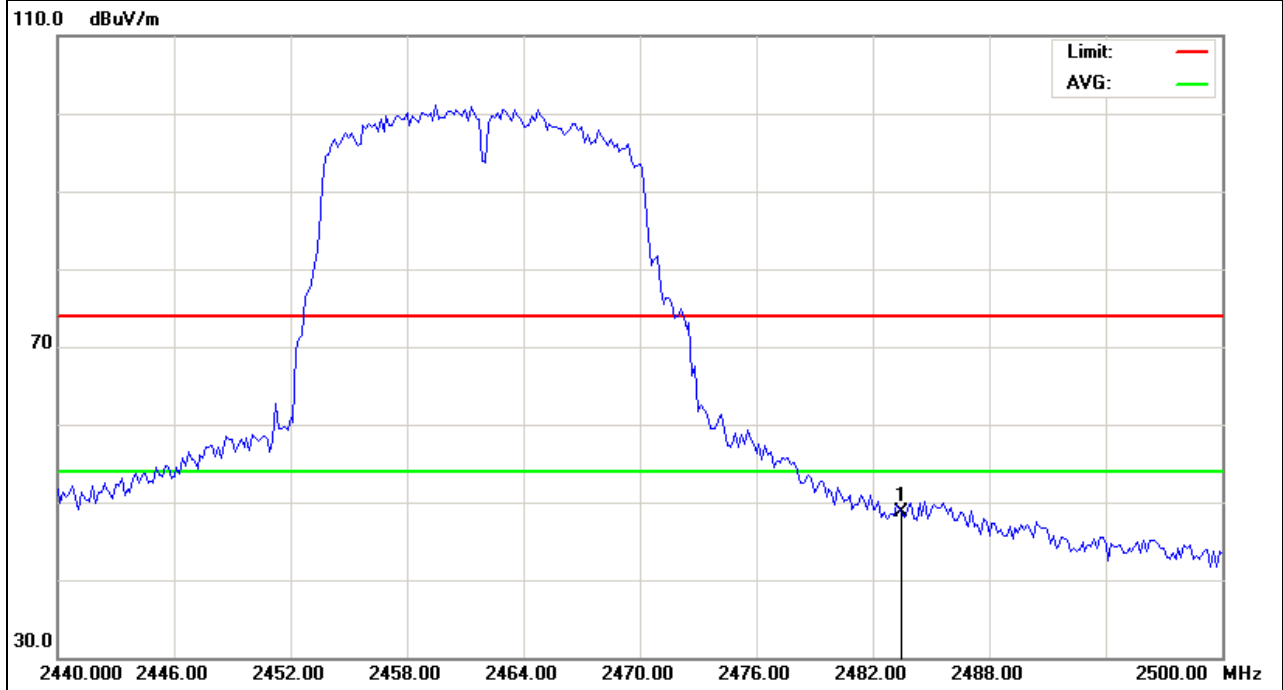
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|--------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH11(802.11g Mode) | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 62.21 | -12.78 | 49.43 | 74 | -24.57 | peak |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

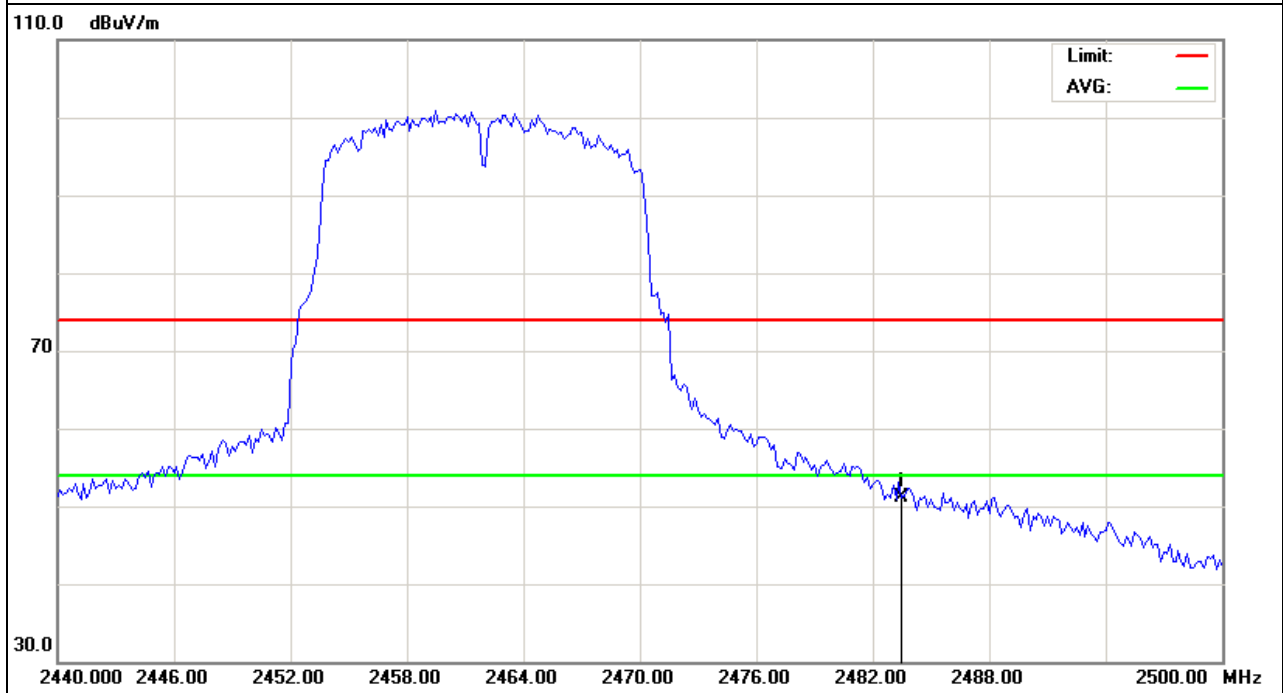
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|--------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH11(802.11g Mode) | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 62.43 | -12.78 | 49.65 | 74 | -24.35 | peak |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

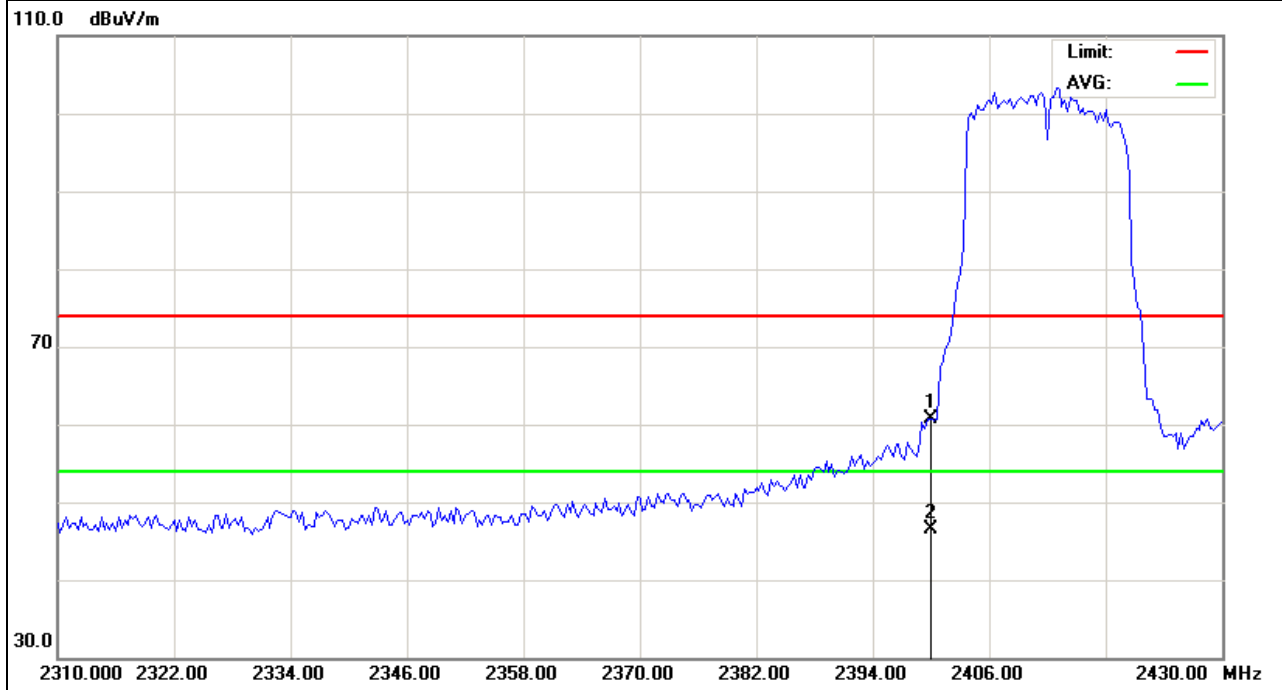
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-------------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH1(802.11n Mode)/20MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2400 | 72.92 | -12.99 | 59.93 | 74 | -14.07 | peak |
| 2400 | 59.40 | -12.99 | 46.41 | 54 | -7.59 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

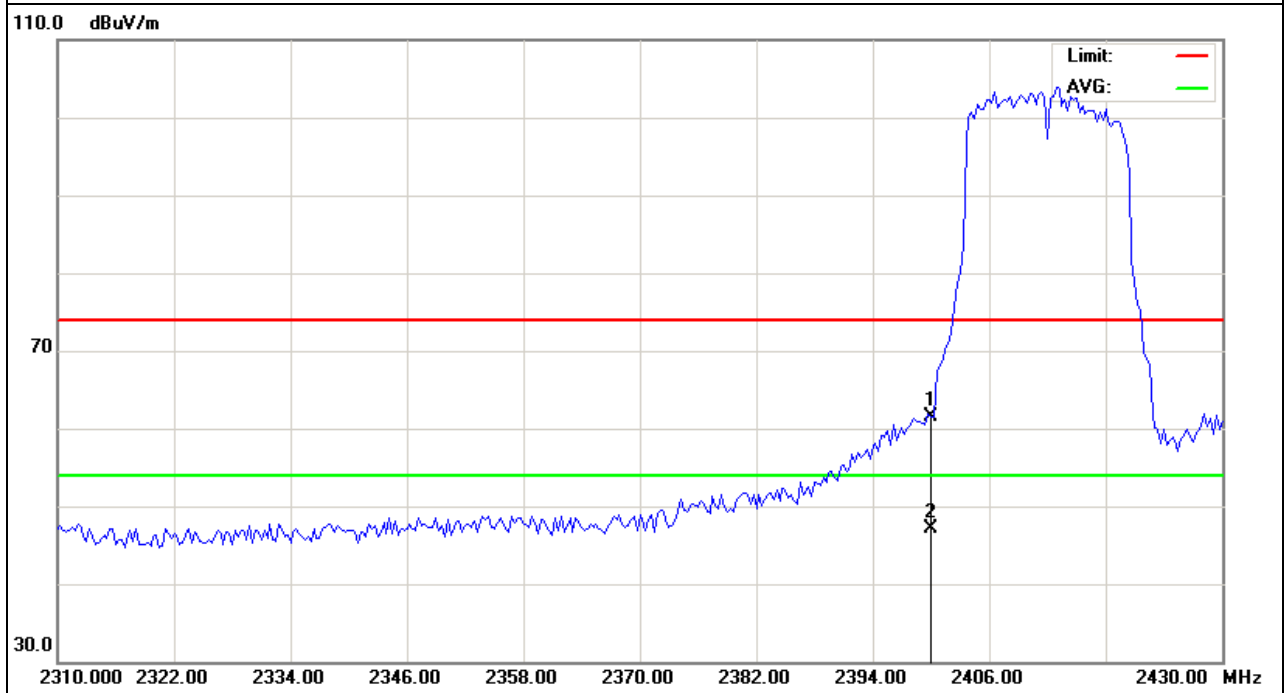
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-----------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH1(802.11n Mode)/20M | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2400 | 75.32 | -12.99 | 62.33 | 74 | -11.67 | peak |
| 2400 | 60.70 | -12.99 | 47.71 | 54 | -6.29 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

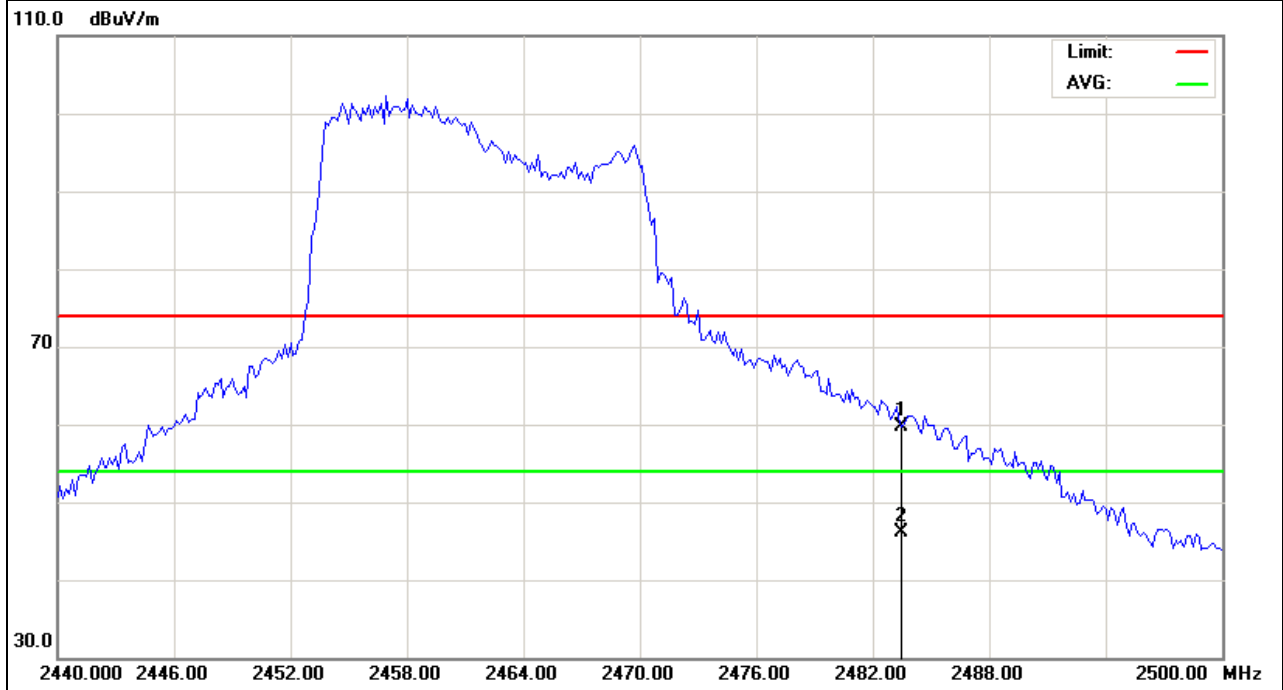
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|--------------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH11(802.11n Mode)/20MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 72.26 | -12.78 | 59.48 | 74 | -14.52 | peak |
| 2483.5 | 59.21 | -12.78 | 46.43 | 54 | -7.57 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

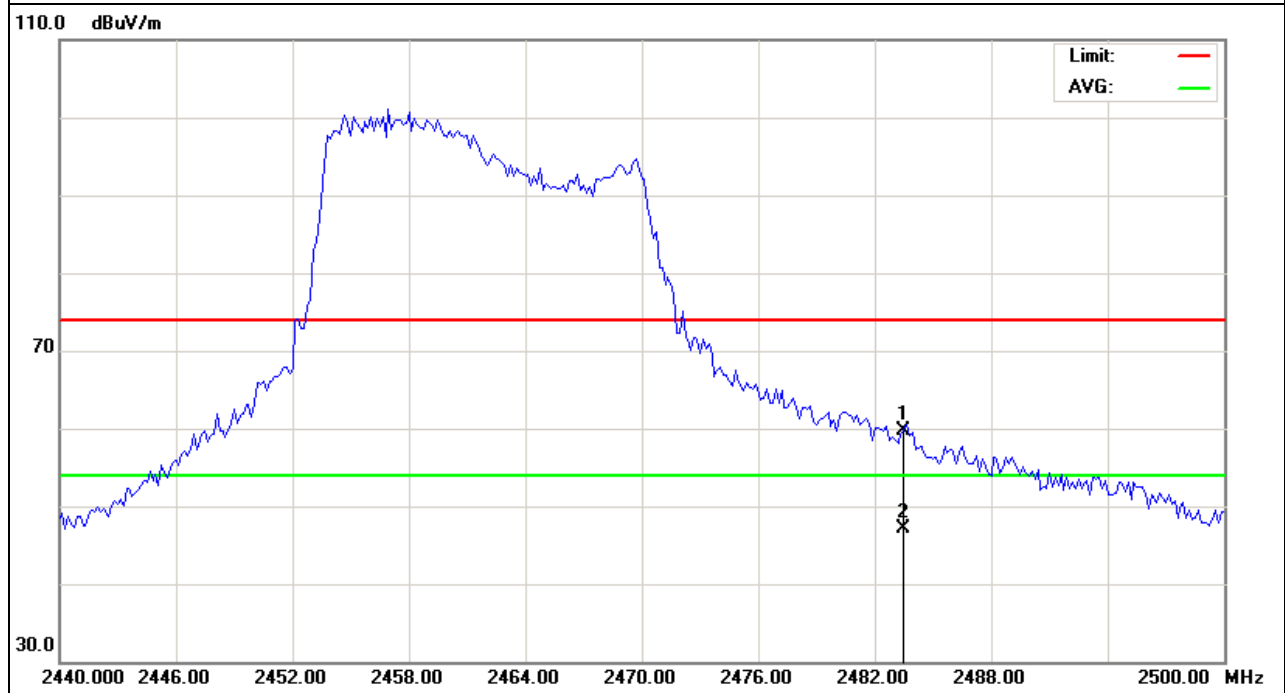
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|--------------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH11(802.11n Mode)/20MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 71.95 | -12.78 | 59.17 | 74 | -14.83 | peak |
| 2483.5 | 56.96 | -12.78 | 44.18 | 54 | -9.82 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

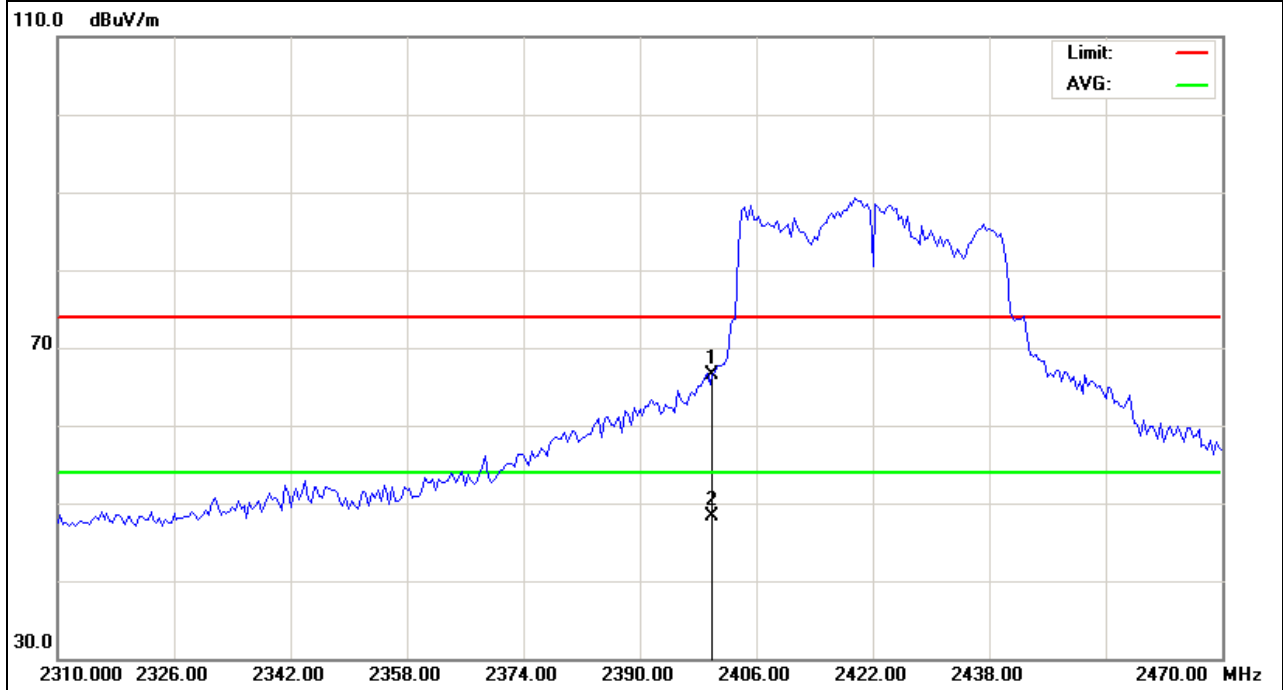
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-----------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH3(802.11n Mode)/40M | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2400 | 79.45 | -12.99 | 66.46 | 74 | -7.54 | peak |
| 2400 | 61.73 | -12.99 | 48.74 | 54 | -5.26 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |

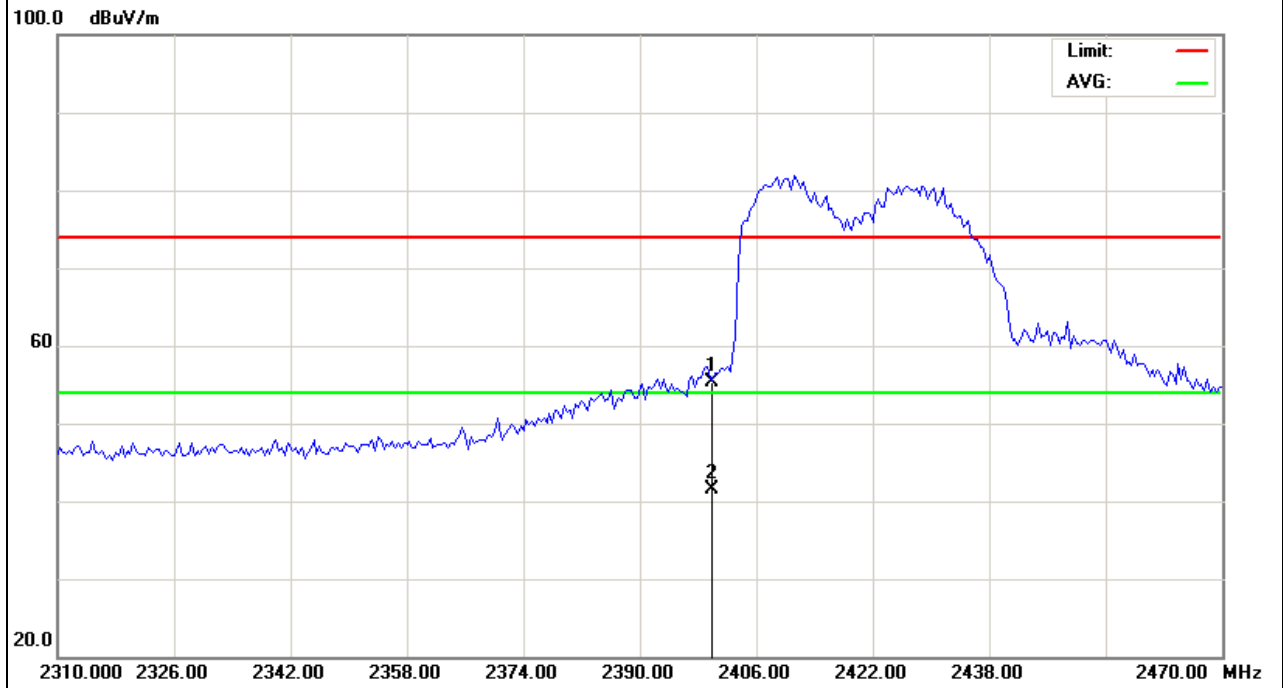
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-------------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH3(802.11n Mode)/40MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2400 | 69.04 | -12.99 | 56.05 | 74 | -17.95 | peak |
| 2400 | 54.61 | -12.99 | 41.62 | 54 | -12.38 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

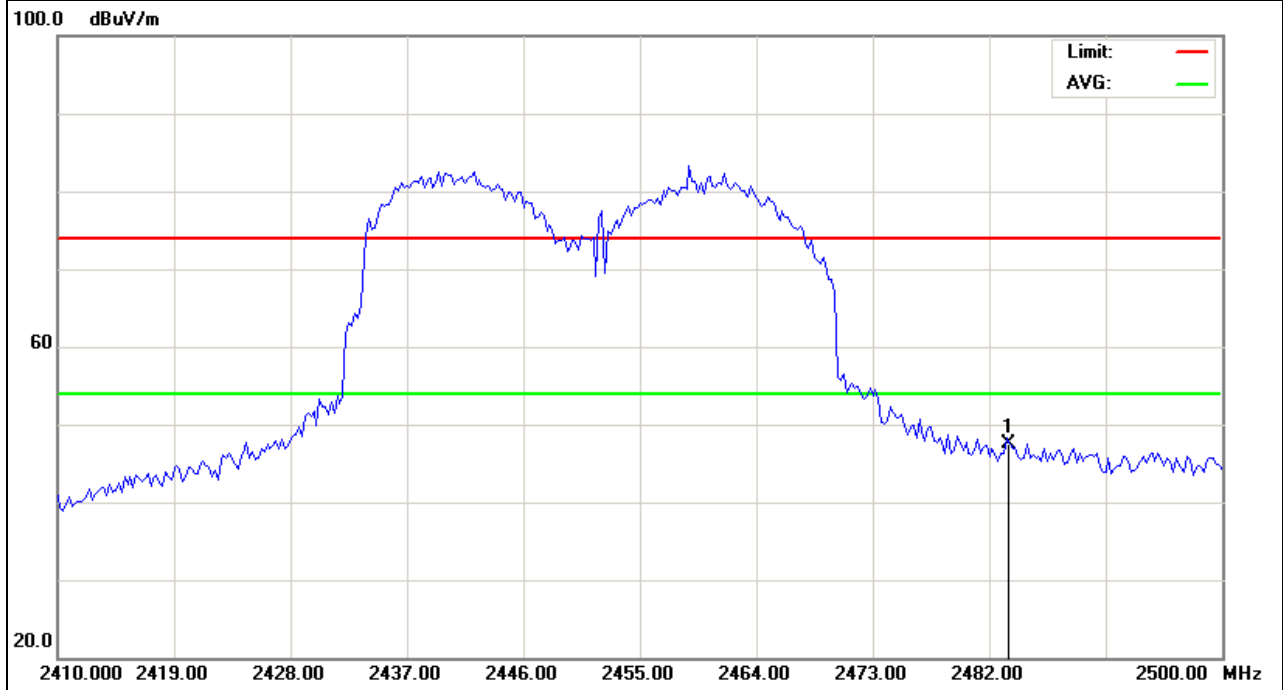
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-------------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH9(802.11n Mode)/40MHz | Polarization : | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 61.99 | -12.78 | 49.21 | 74 | -24.79 | peak |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

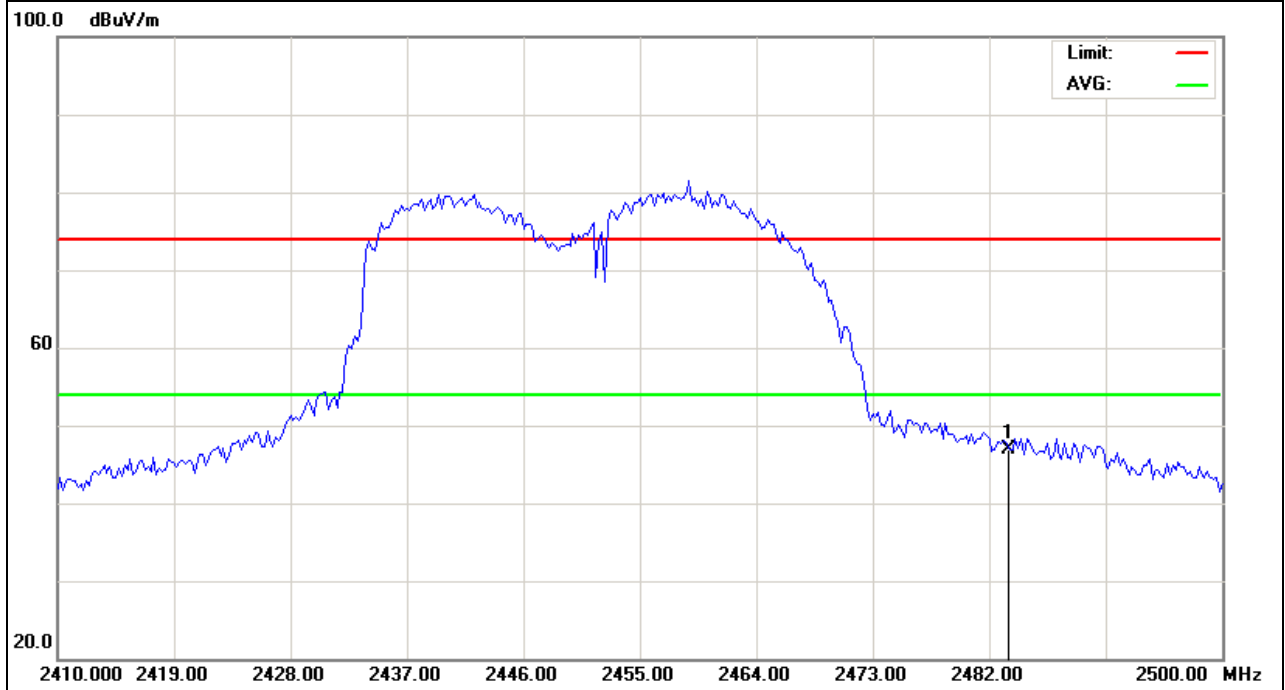
Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



| | | | |
|---------------|-------------------------|---------------------|--------------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-A D01) |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 5V FROM ADAPTER WITH AC 120V/60HZ |
| Test Mode : | CH9(802.11n Mode)/40MHz | Polarization : | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 2483.5 | 60.53 | -12.78 | 47.75 | 74 | -26.25 | peak |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|------------------------|------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247 | Power Spectral Density | 8 dBm (in any 3KHz) | 2400-2483.5 | PASS |

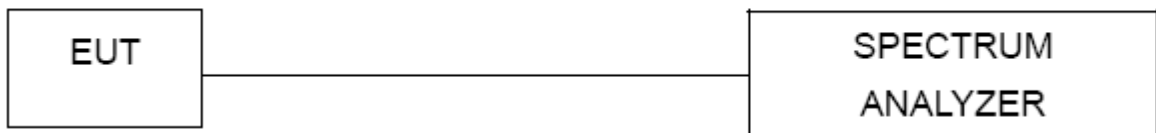
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW \geq 3 kHz.
4. Set the VBW \geq 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



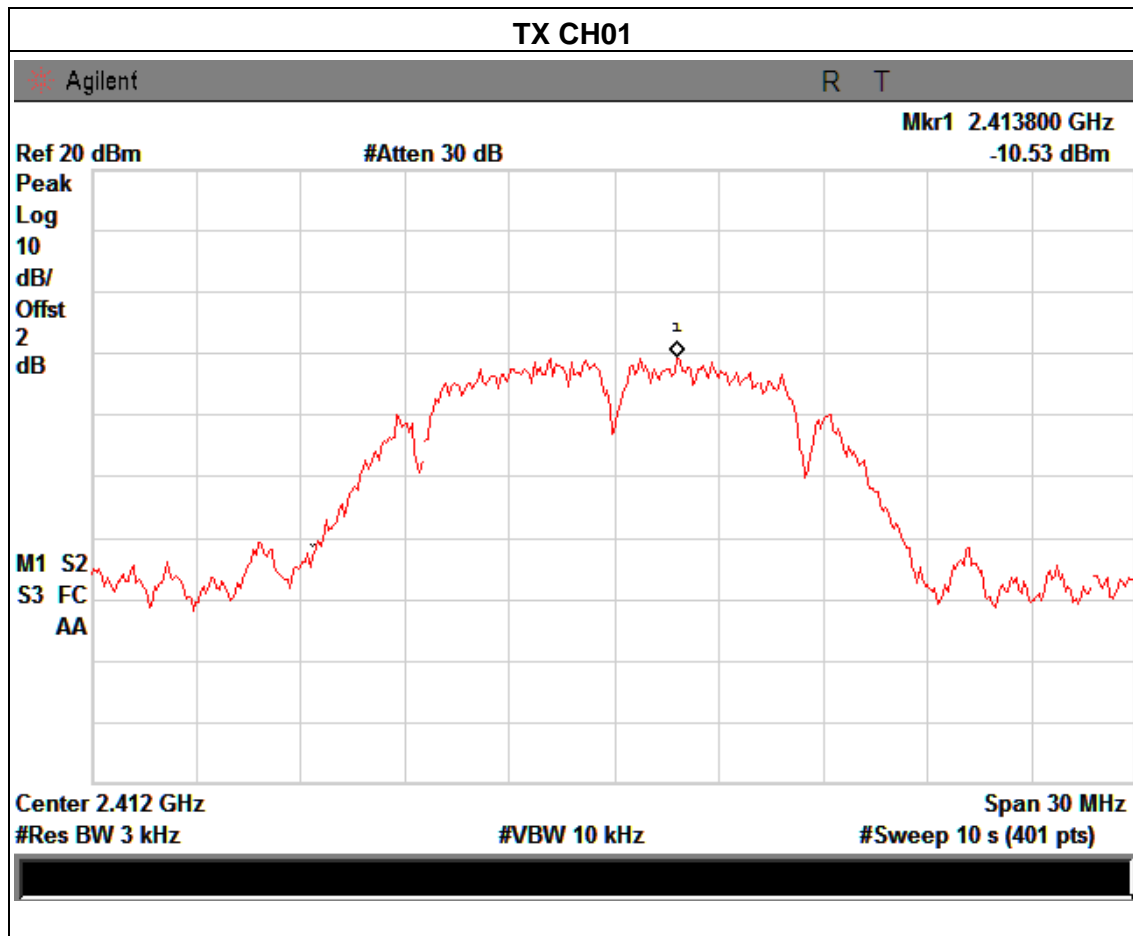
4.1.4 EUT OPERATION CONDITIONS

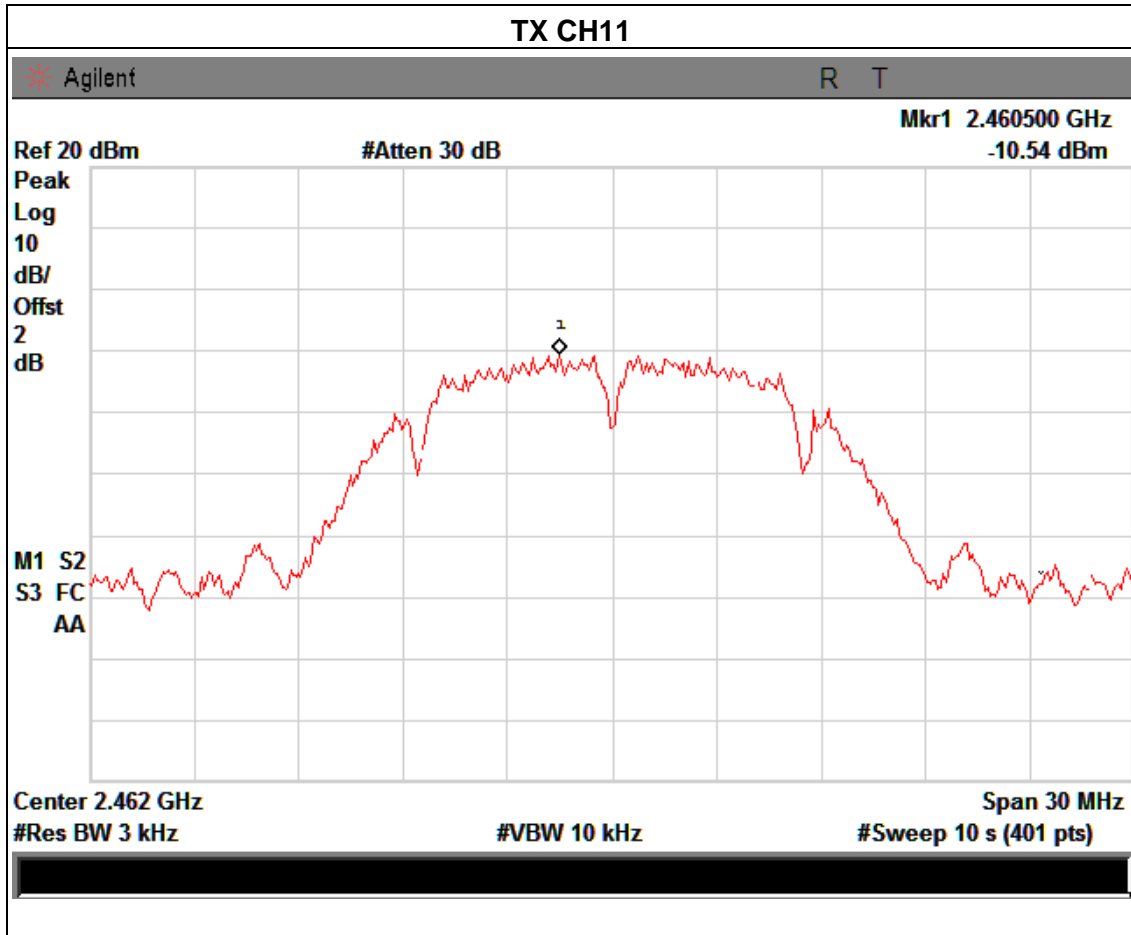
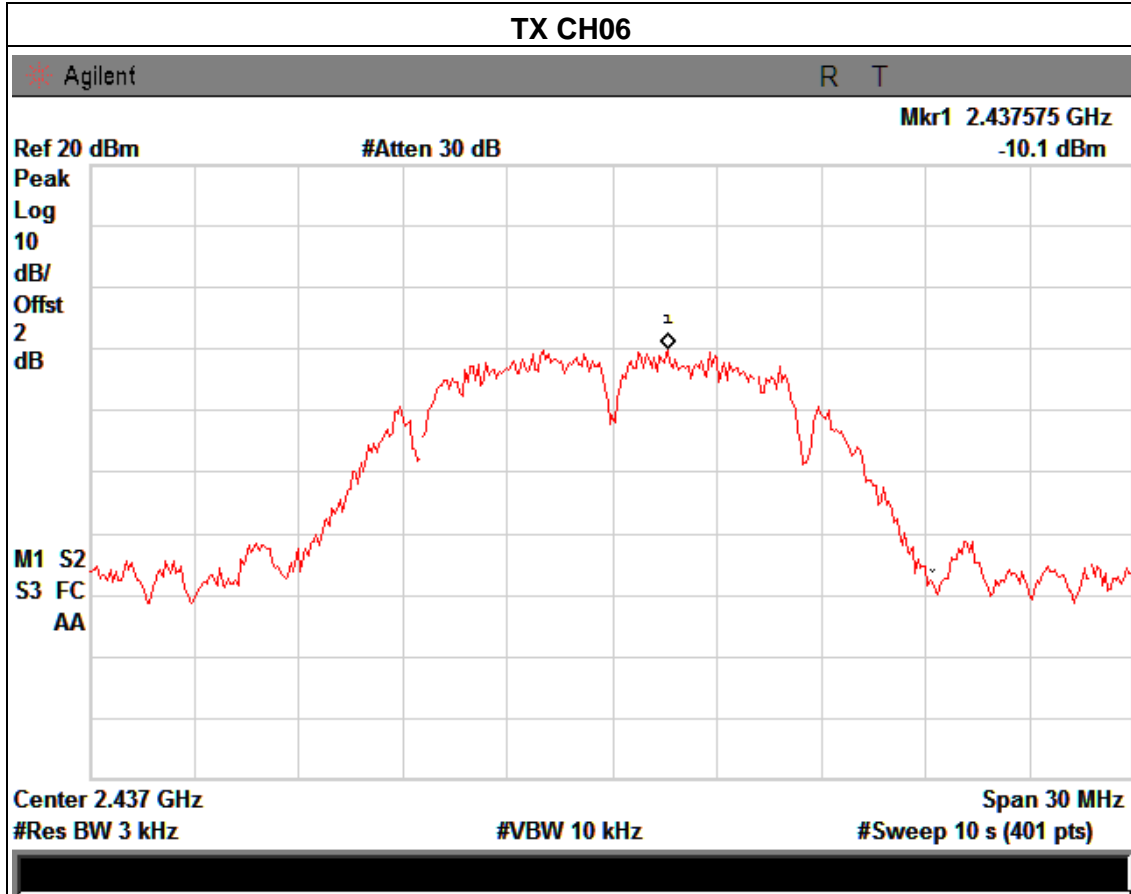
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

| | | | |
|---------------|-----------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1015 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX b Mode /CH01, CH06, CH11 | | |

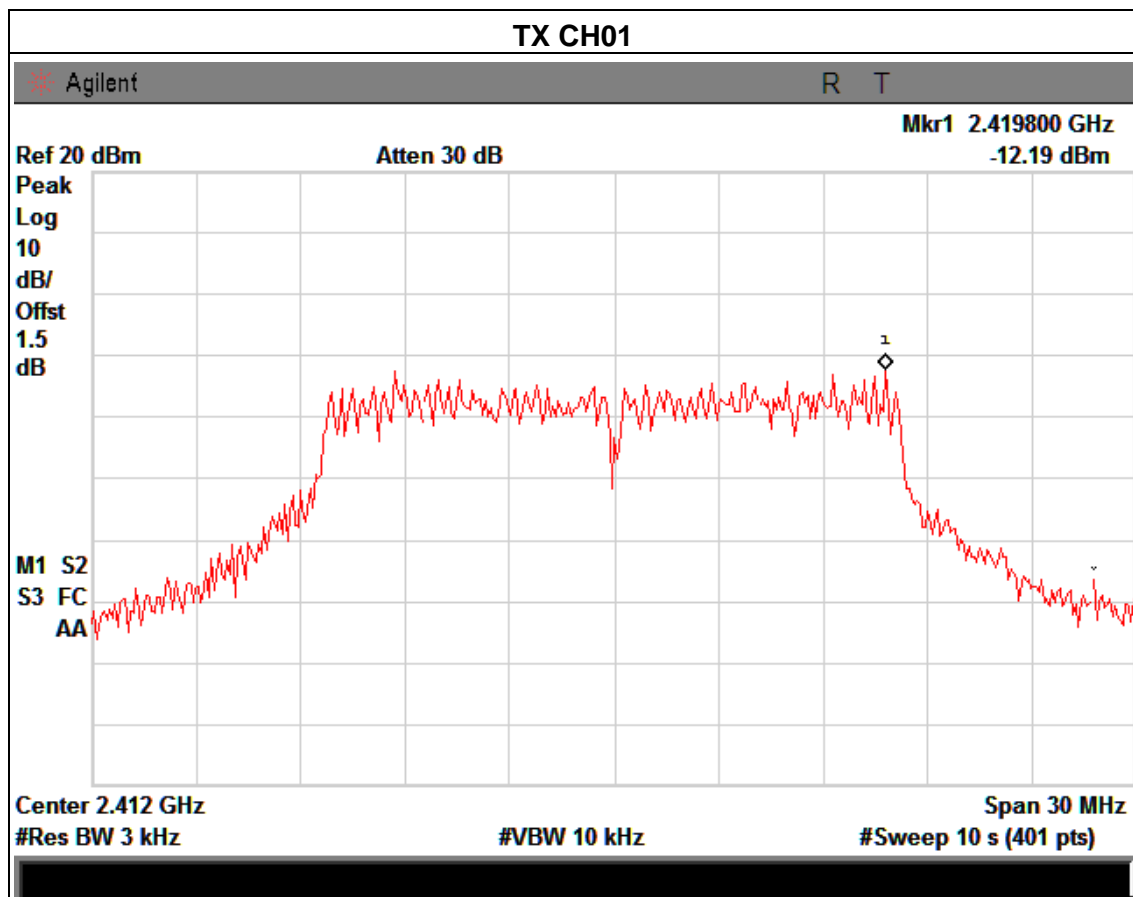
| Frequency | Power Density (dBm) | Limit (dBm) | Result |
|-----------|---------------------|-------------|--------|
| 2412 MHz | -10.53 | 8 | PASS |
| 2437 MHz | -10.10 | 8 | PASS |
| 2462 MHz | -10.54 | 8 | PASS |

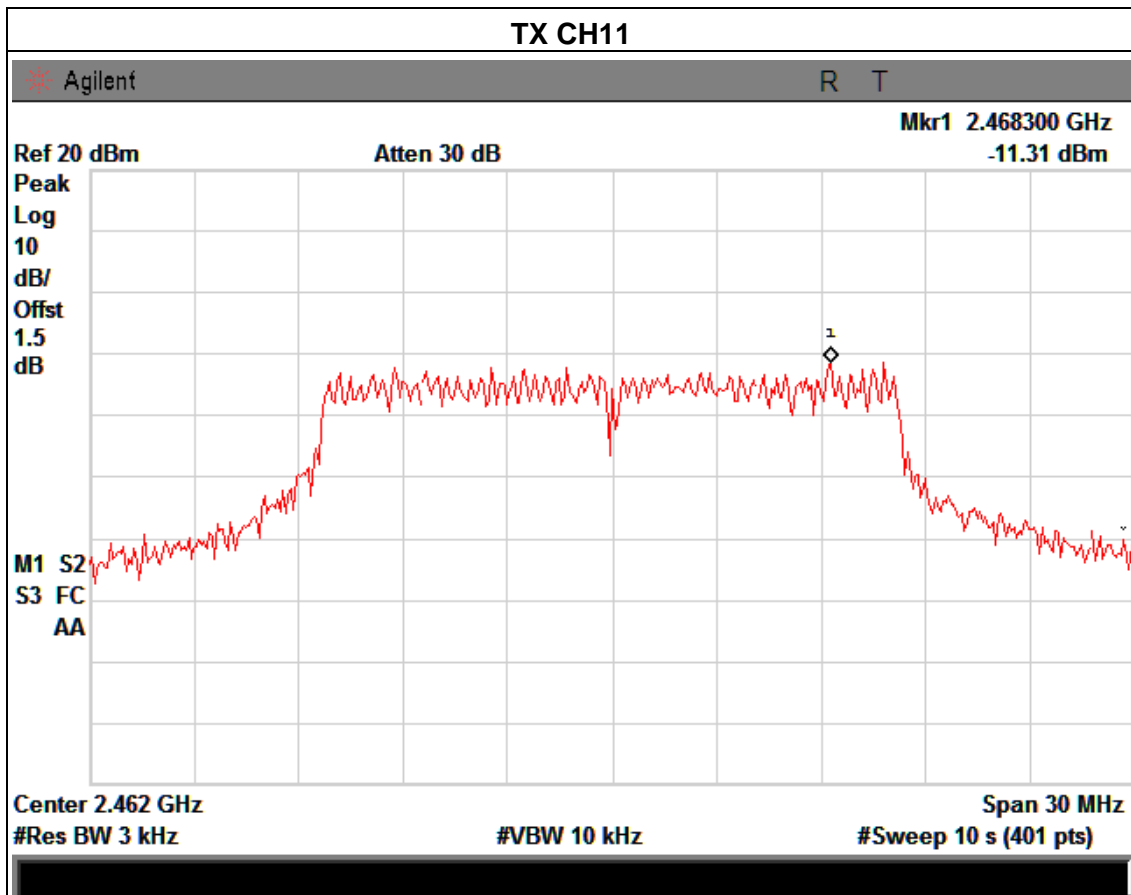
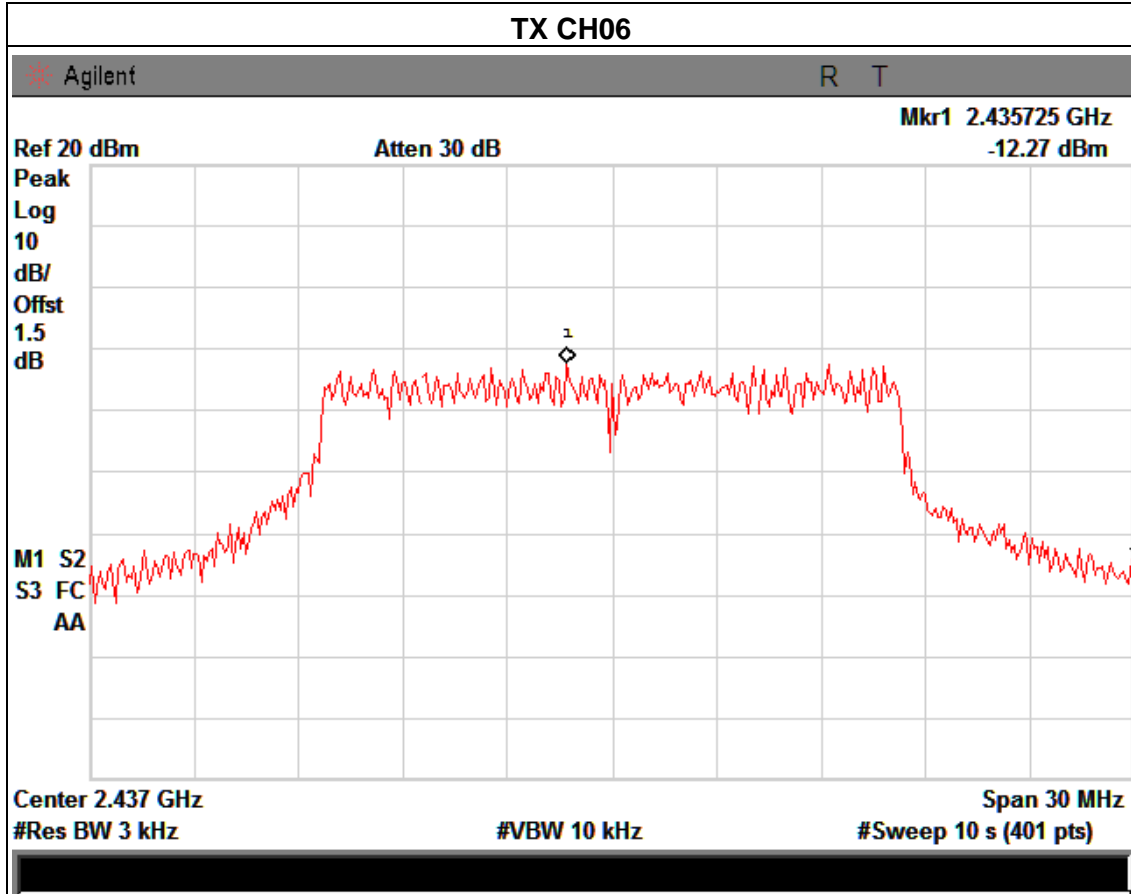




| | | | |
|---------------|-----------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1015 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX g Mode /CH01, CH06, CH11 | | |

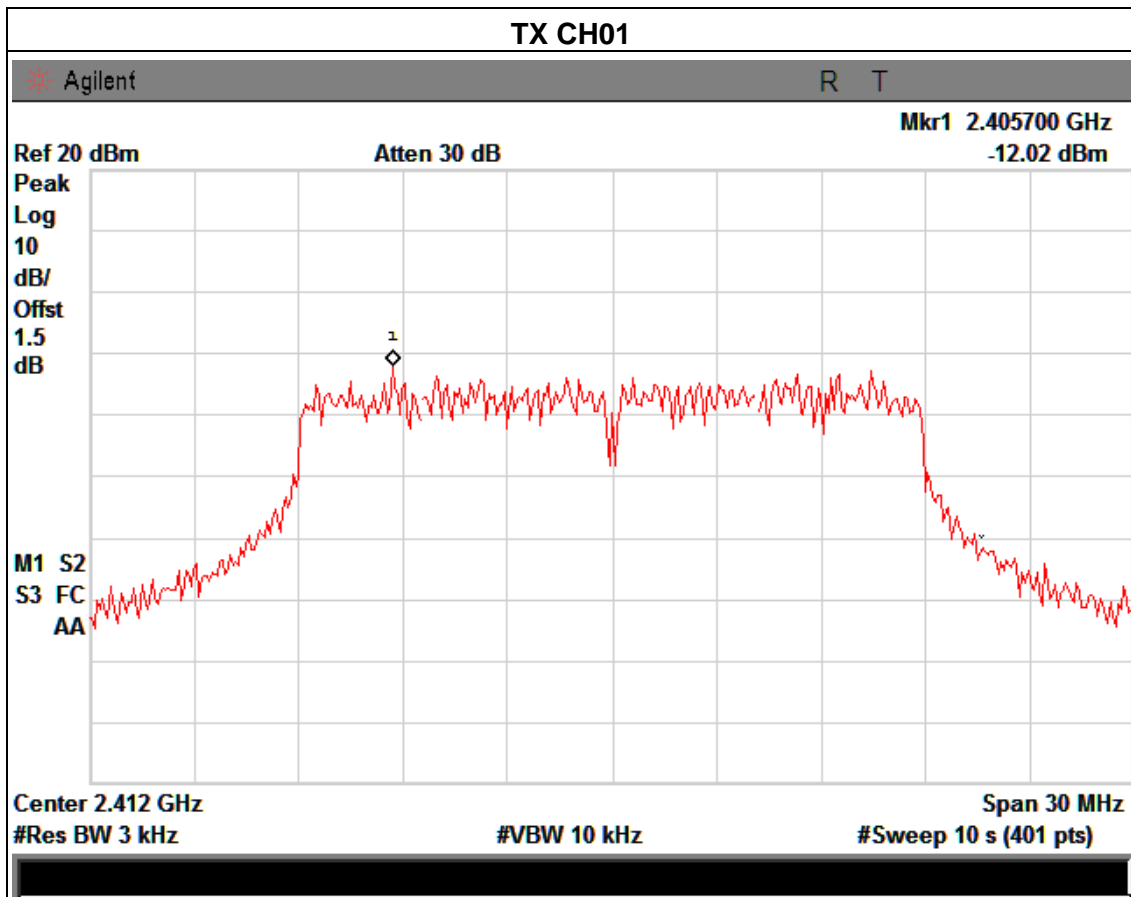
| Frequency | Power Density (dBm) | Limit (dBm) | Result |
|-----------|---------------------|-------------|--------|
| 2412 MHz | -12.19 | 8 | PASS |
| 2437 MHz | -12.27 | 8 | PASS |
| 2462 MHz | -11.31 | 8 | PASS |

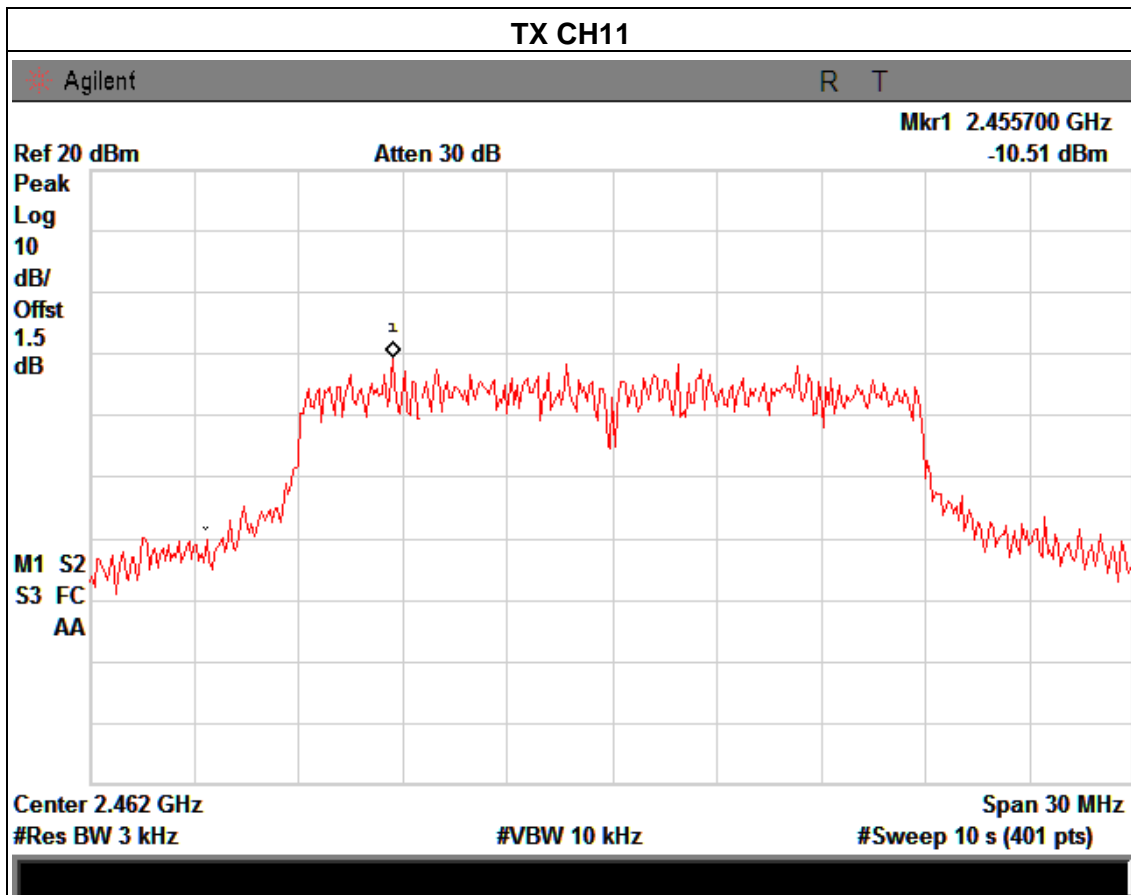
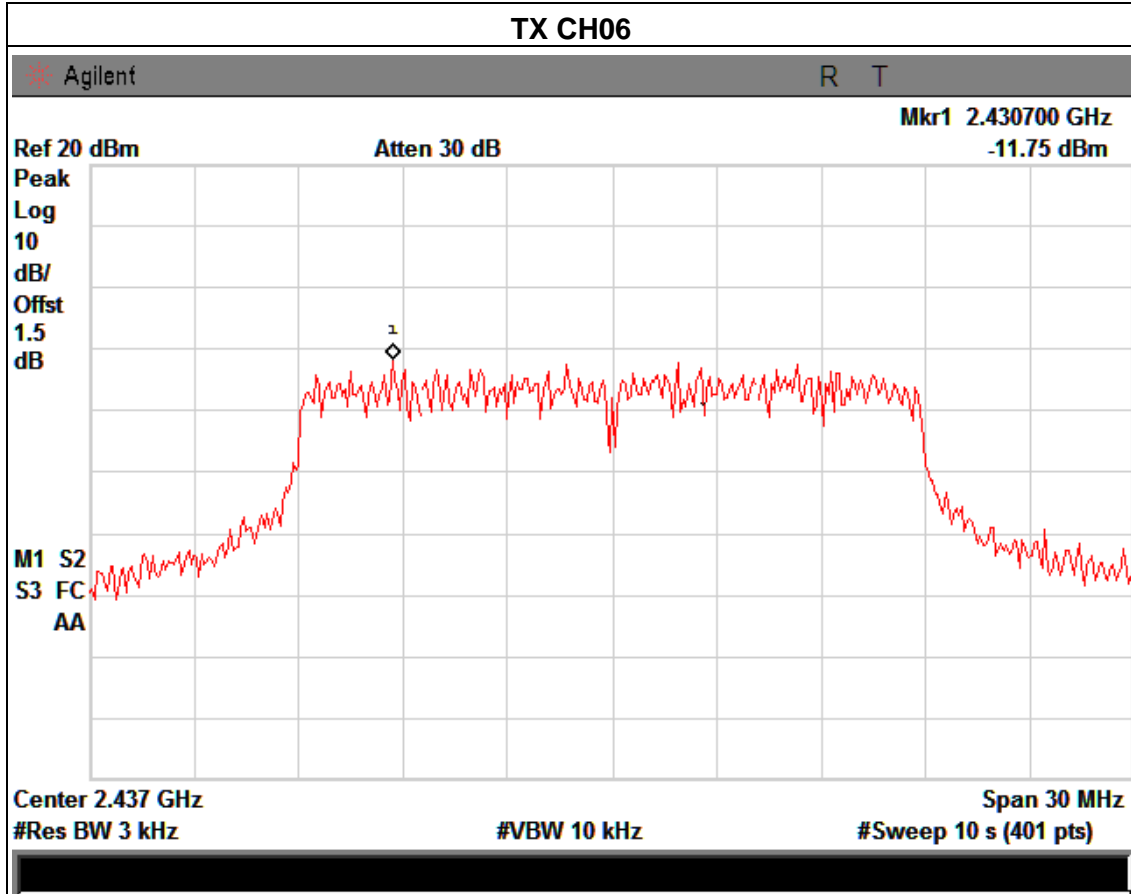




| | | | |
|---------------|----------------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1015 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX n Mode(20M) /CH01, CH06, CH11 | | |

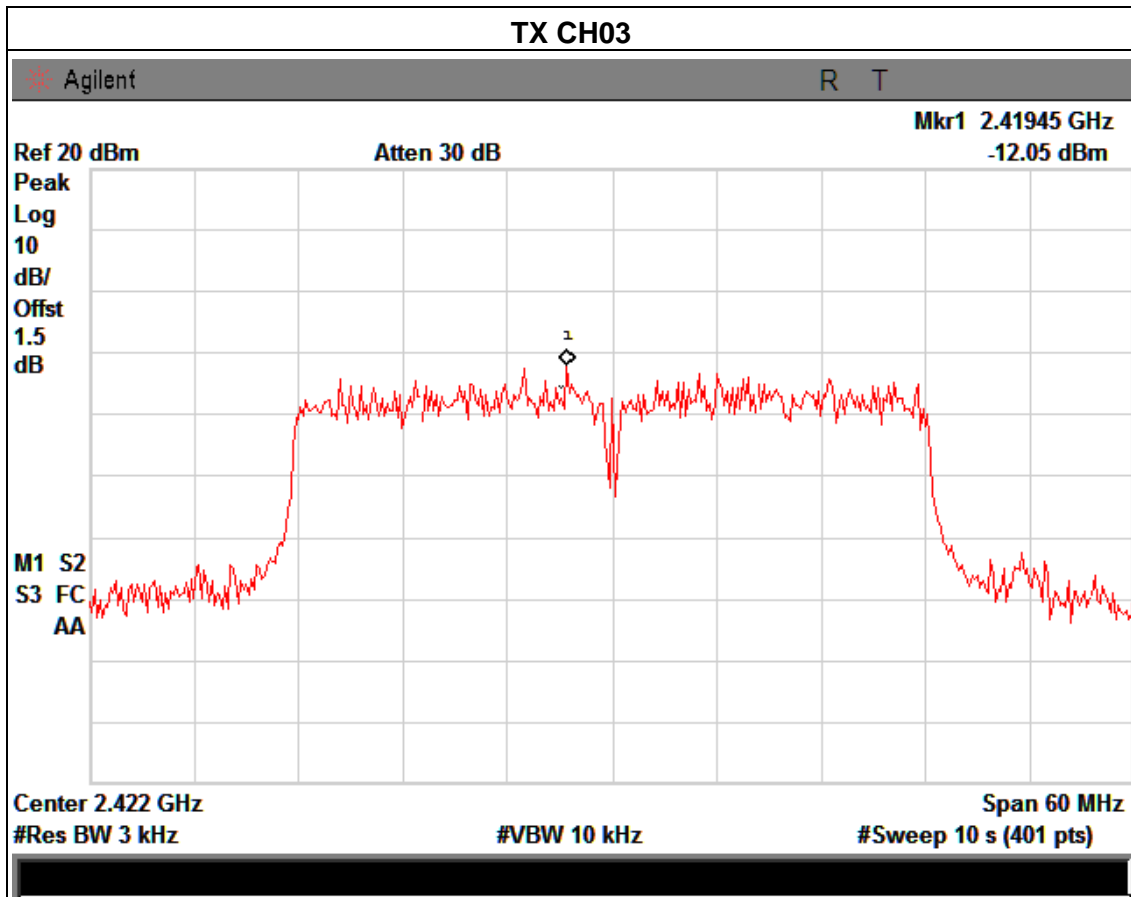
| Frequency | Power Density (dBm) | Limit (dBm) | Result |
|-----------|---------------------|-------------|--------|
| 2412 MHz | -12.02 | 8 | PASS |
| 2437 MHz | -11.75 | 8 | PASS |
| 2462 MHz | -10.51 | 8 | PASS |

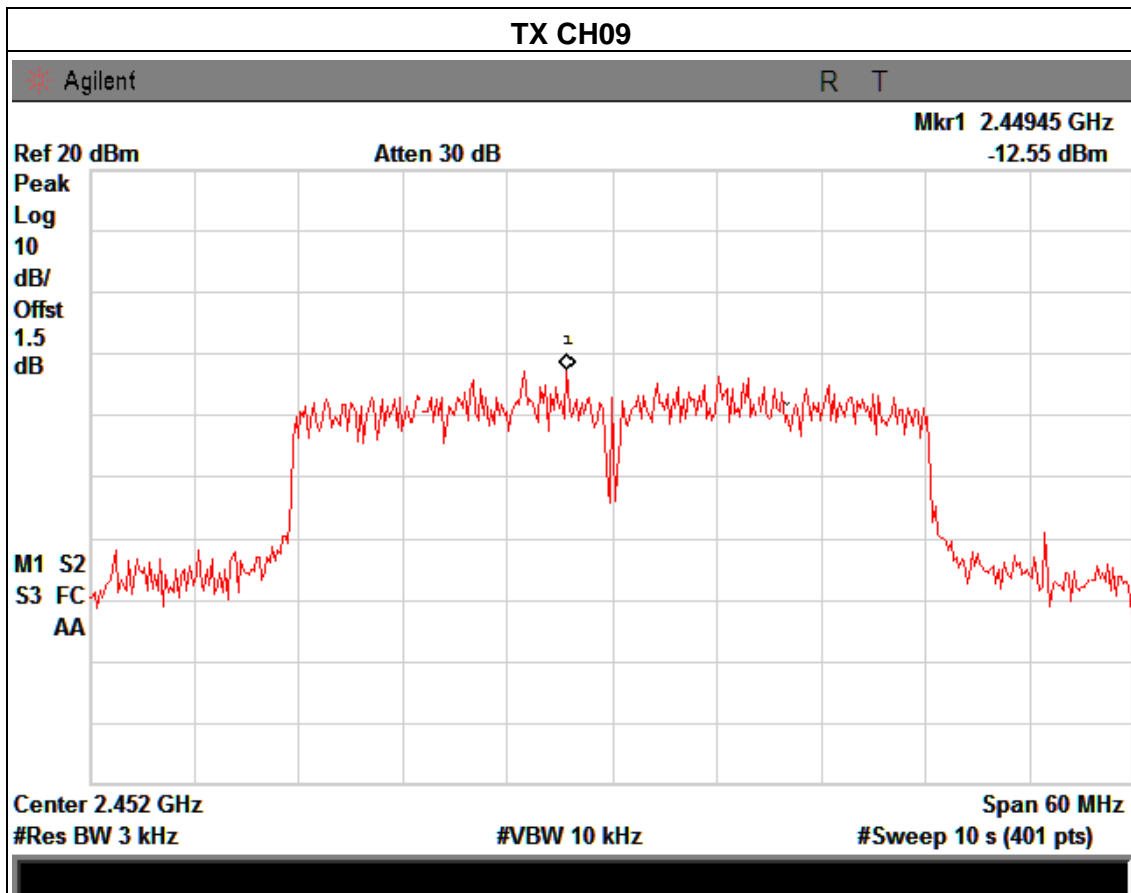
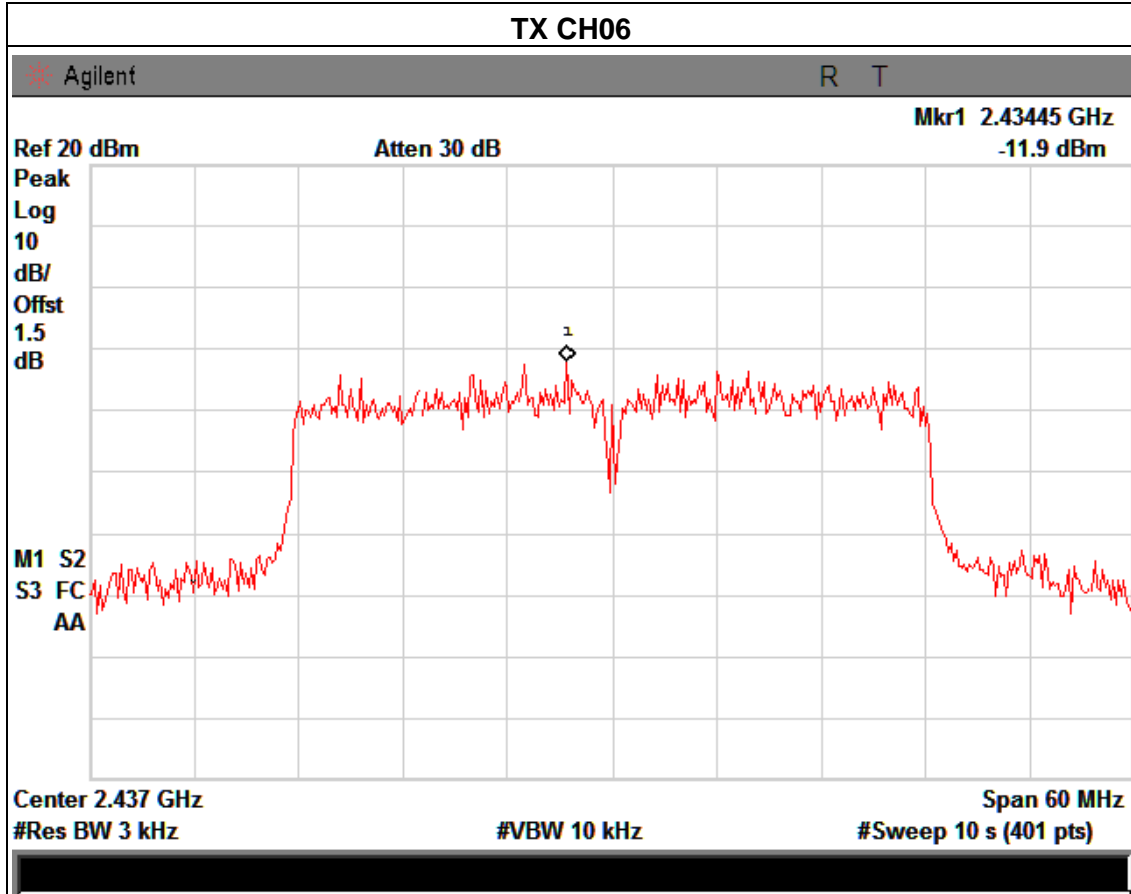




| | | | |
|---------------|----------------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1015 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX n Mode(40M) /CH03, CH06, CH09 | | |

| Frequency | Power Density (dBm) | Limit (dBm) | Result |
|-----------|---------------------|-------------|--------|
| 2422 MHz | -12.05 | 8 | PASS |
| 2437 MHz | -11.90 | 8 | PASS |
| 2452 MHz | -12.55 | 8 | PASS |





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|-----------|-----------------------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | $\geq 500\text{KHz}$ (6dB bandwidth) | 2400-2483.5 | PASS |

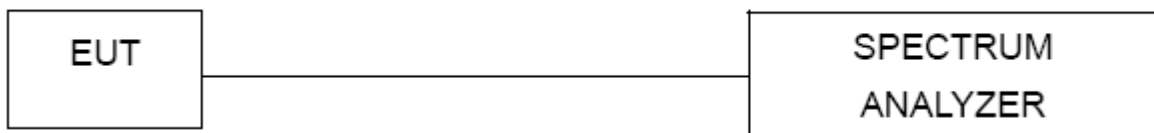
5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



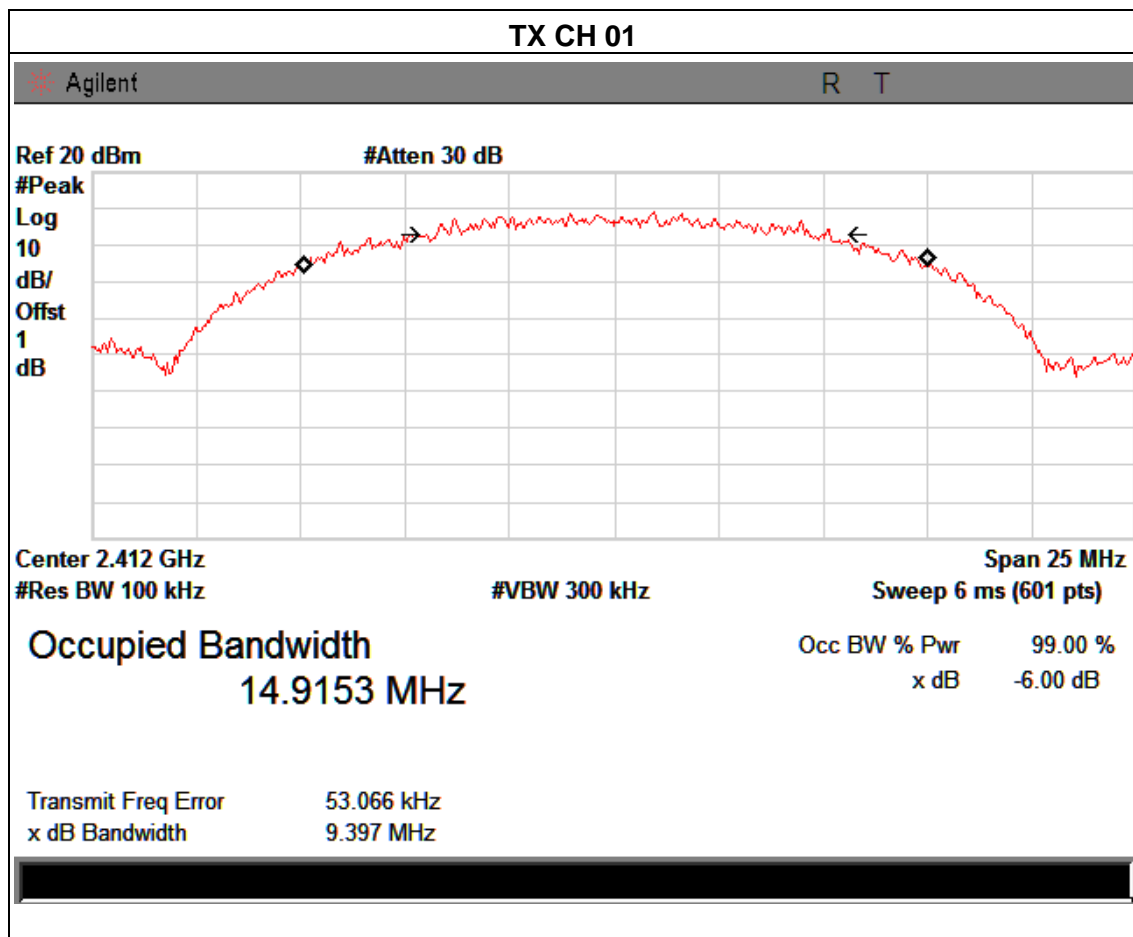
5.1.4 EUT OPERATION CONDITIONS

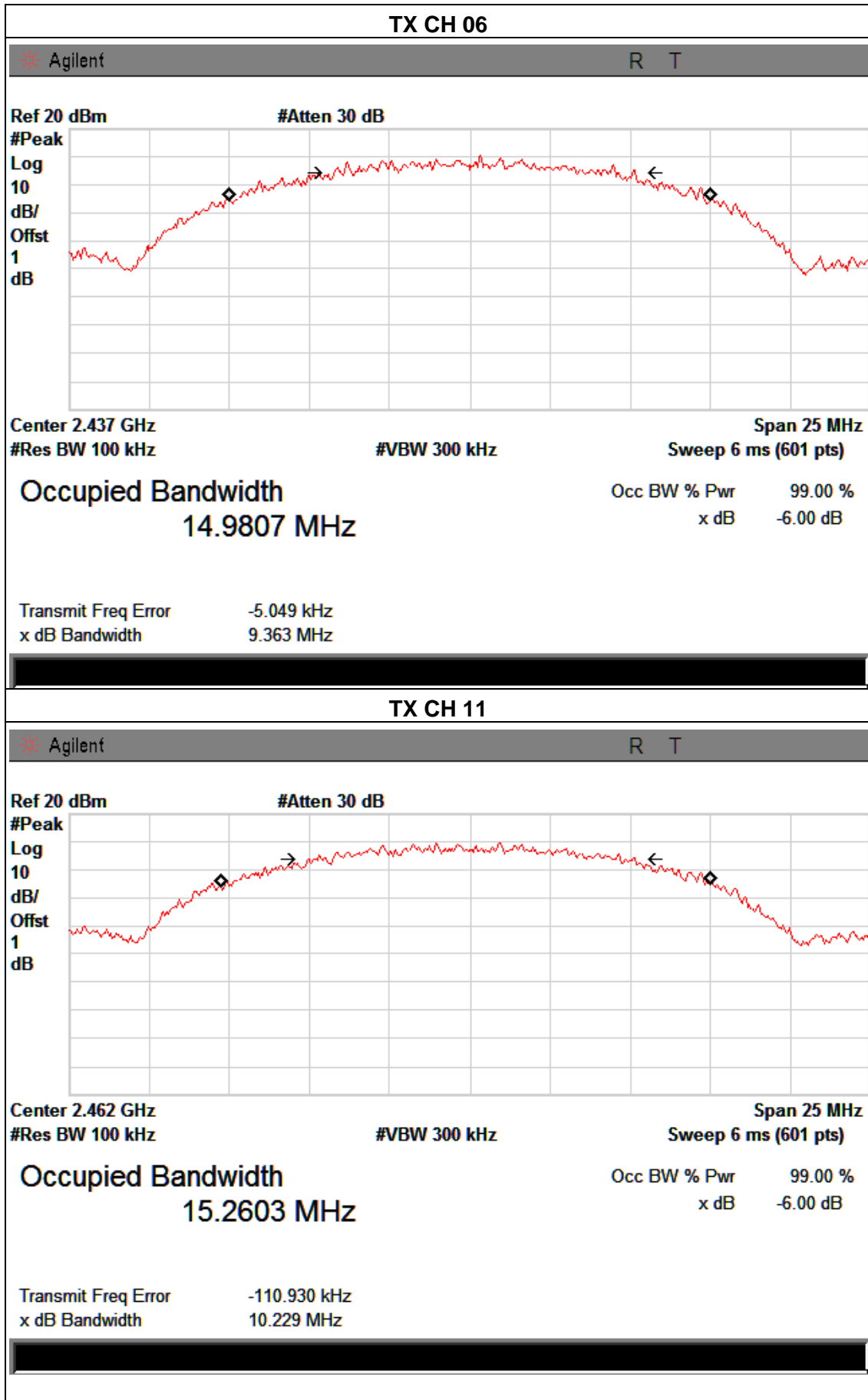
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

| | | | |
|---------------|-----------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1012 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX b Mode /CH01, CH06, CH11 | | |

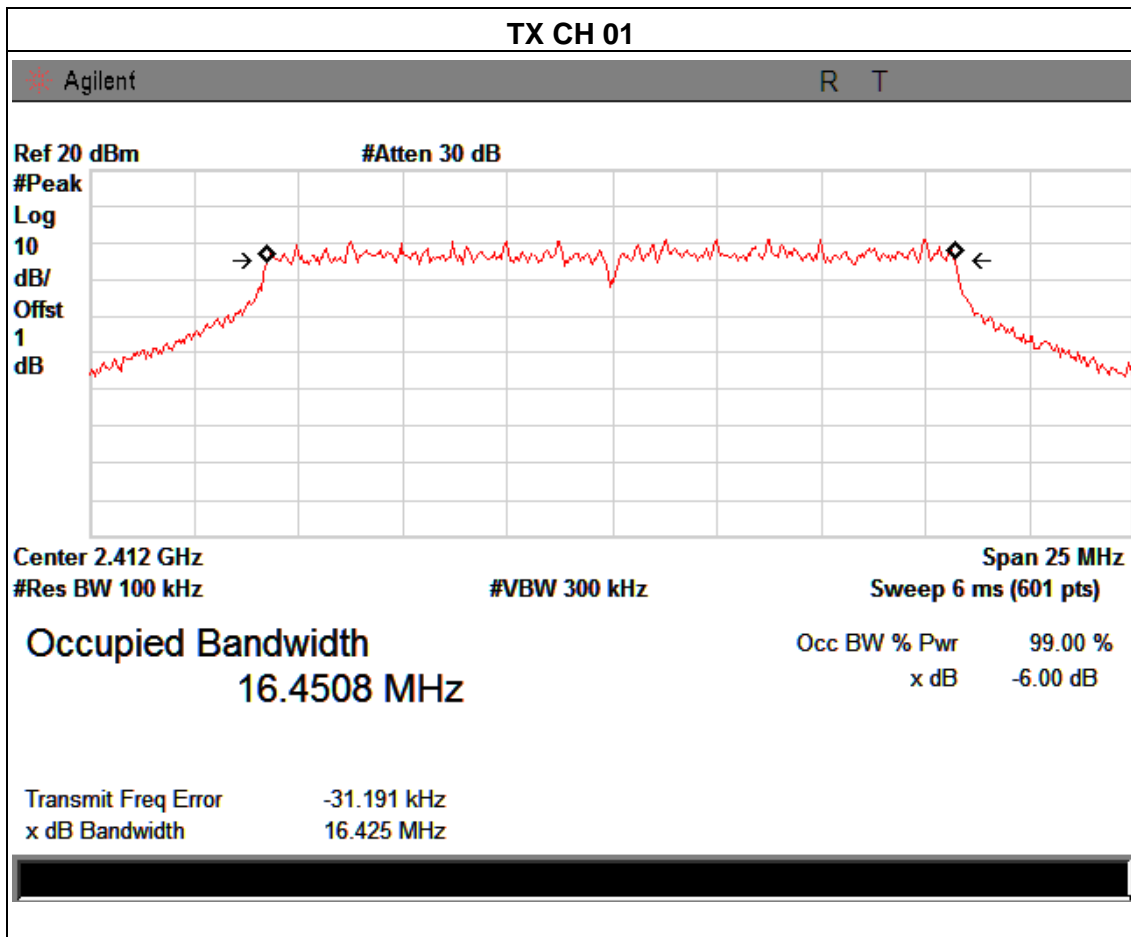
| Frequency | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Channel Separation (MHz) | Result |
|-----------|---------------------|-----------------------|--------------------------|-------------|
| 2412 MHz | 9.39 | 14.91 | >=500KHz | PASS |
| 2437 MHz | 9.36 | 14.98 | >=500KHz | PASS |
| 2462 MHz | 10.22 | 15.26 | >=500KHz | PASS |

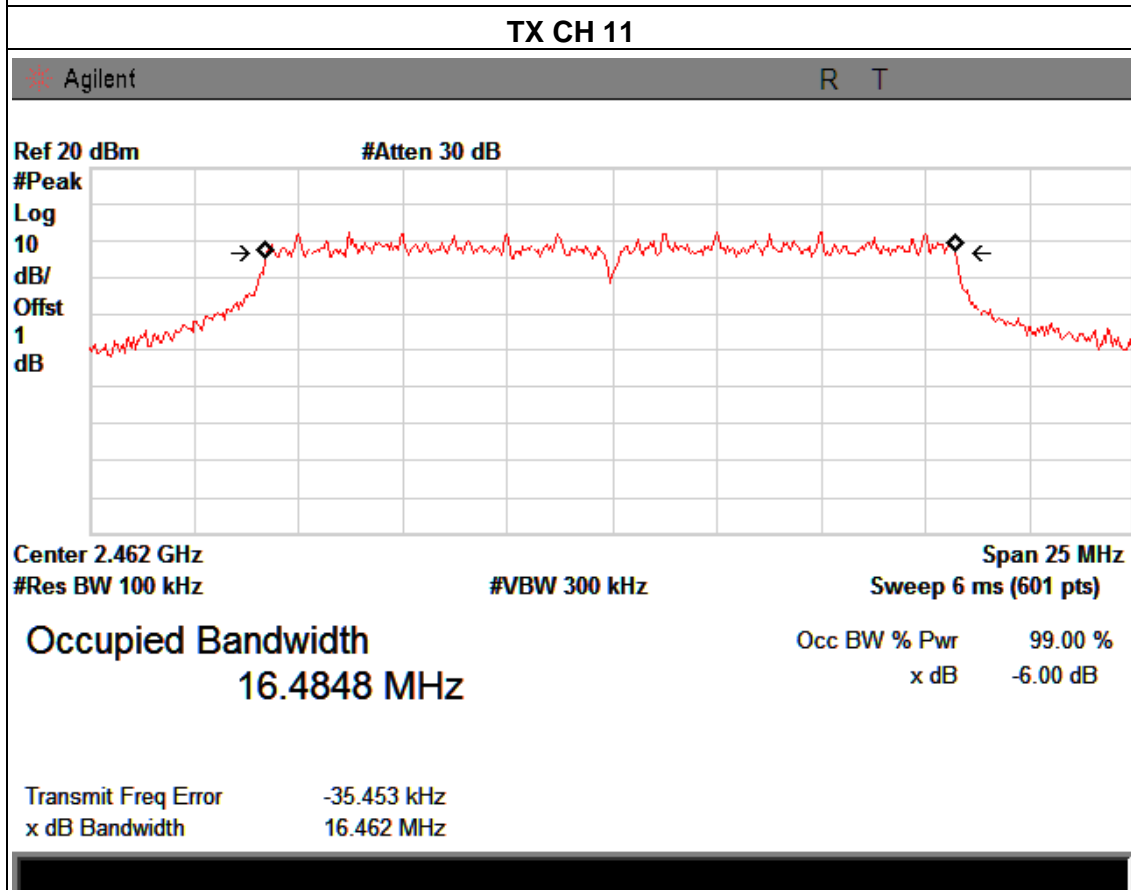
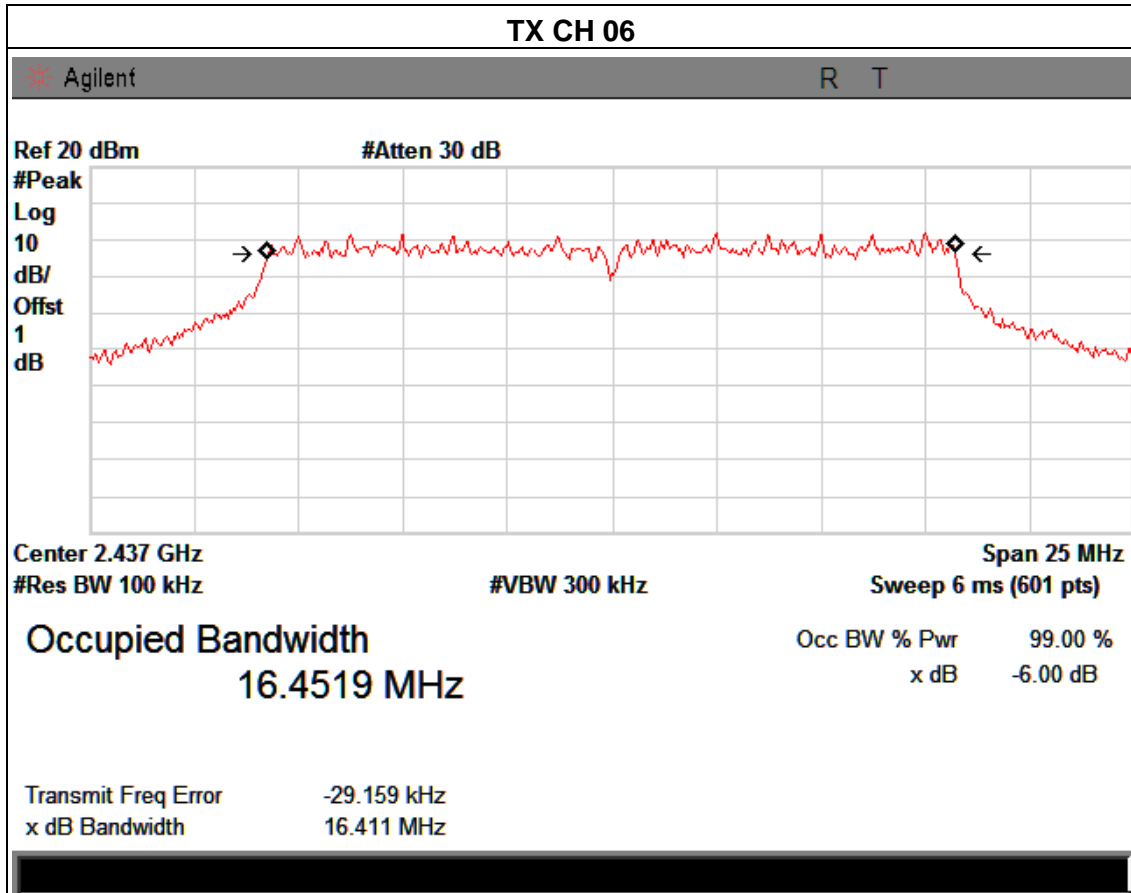




| | | | |
|---------------|-----------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1012 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX g Mode /CH01, CH06, CH11 | | |

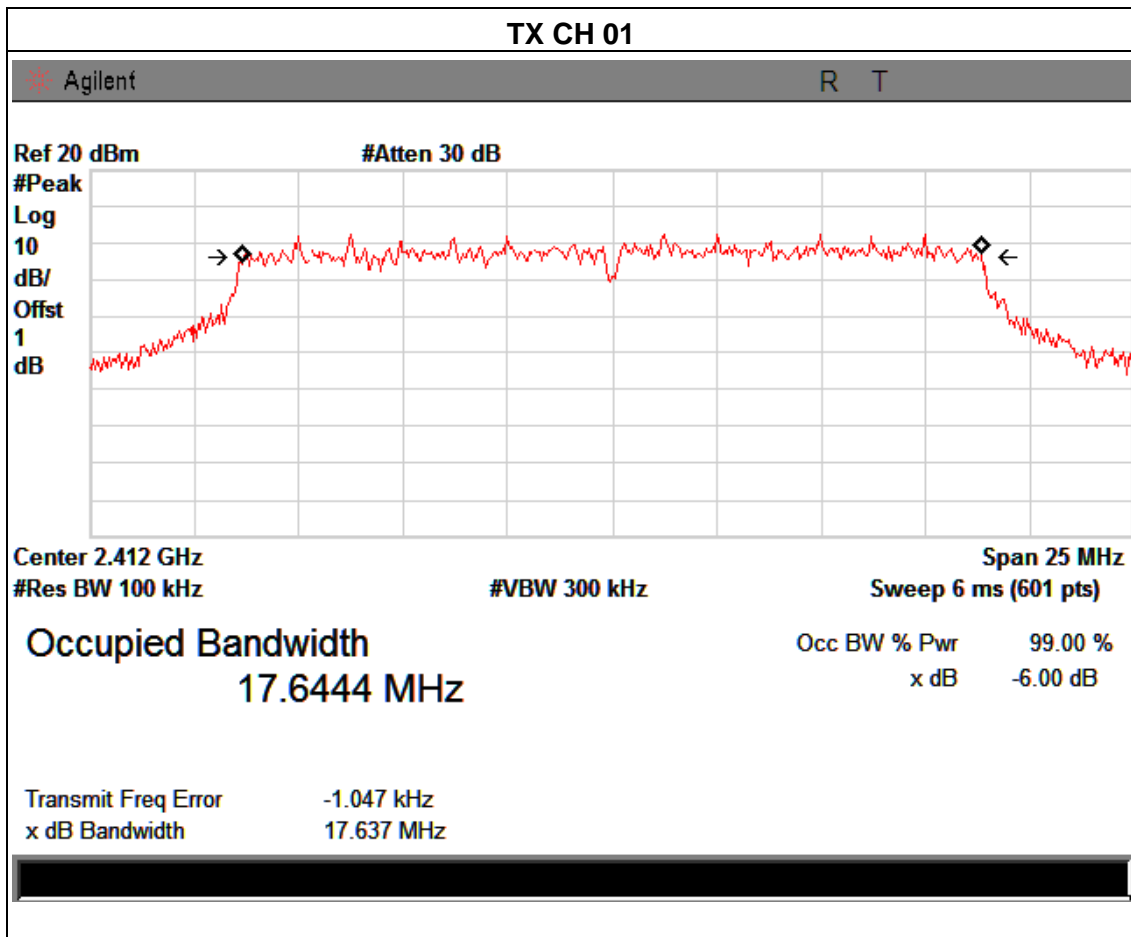
| Frequency | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Channel Separation (MHz) | Result |
|-----------|---------------------|-----------------------|--------------------------|-------------|
| 2412 MHz | 16.42 | 16.45 | >=500KHz | PASS |
| 2437 MHz | 16.41 | 16.45 | >=500KHz | PASS |
| 2462 MHz | 16.46 | 16.48 | >=500KHz | PASS |

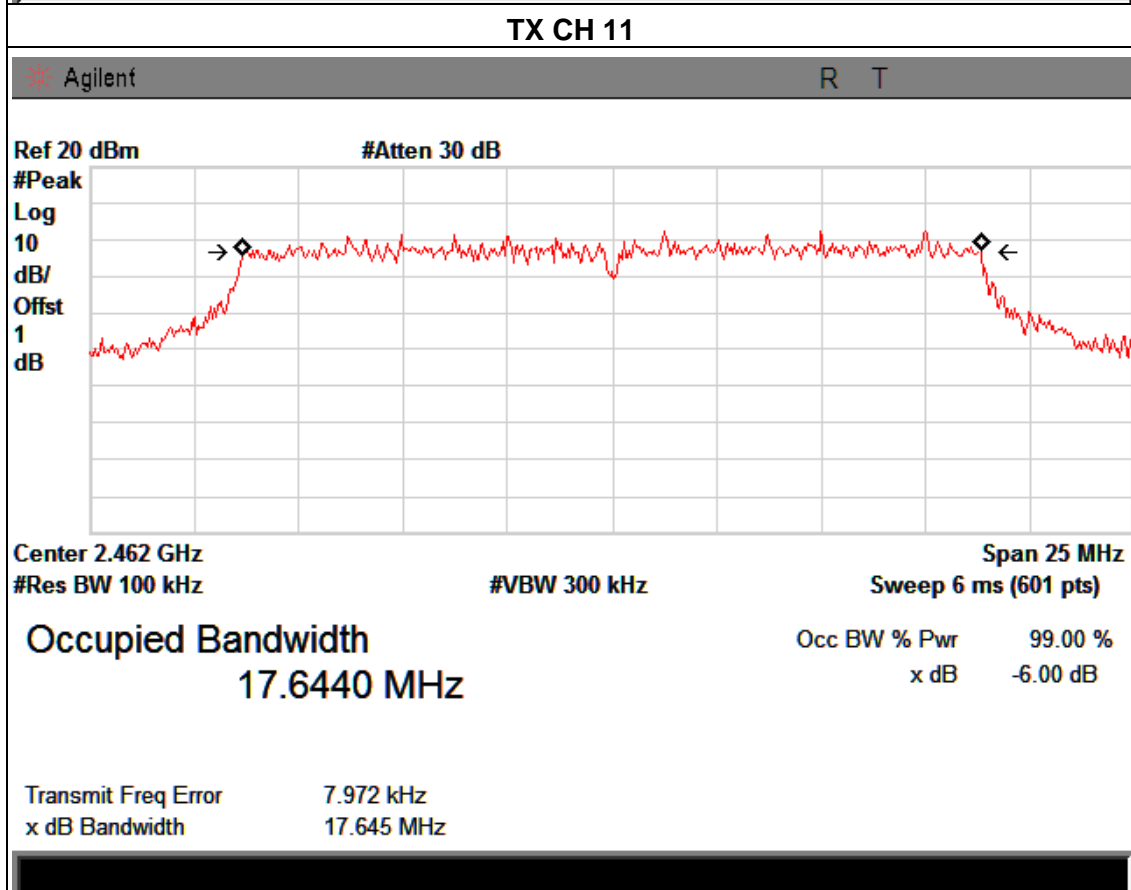
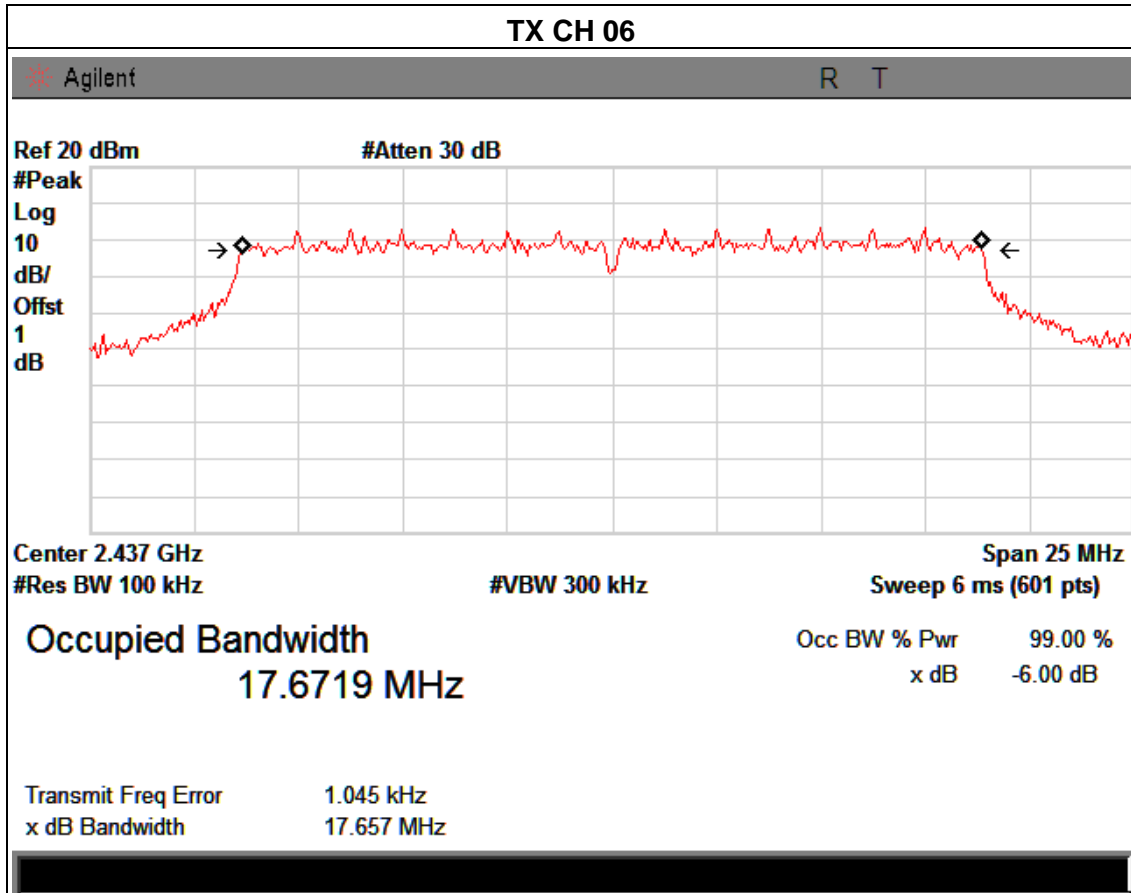




| | | | |
|---------------|----------------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1012 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX n Mode(20M) /CH01, CH06, CH11 | | |

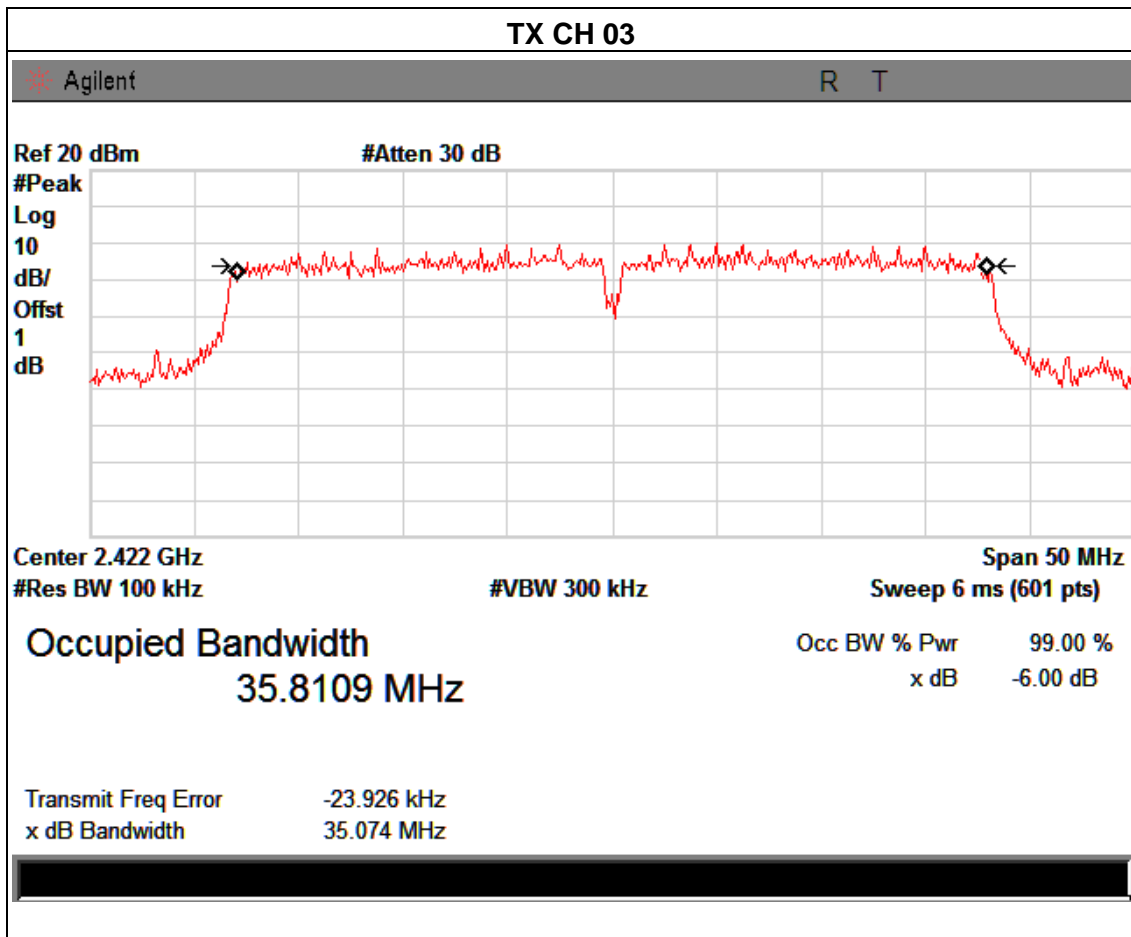
| Frequency | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Channel Separation (MHz) | Result |
|-----------|---------------------|-----------------------|--------------------------|-------------|
| 2412 MHz | 17.63 | 17.64 | >=500KHz | PASS |
| 2437 MHz | 17.65 | 17.67 | >=500KHz | PASS |
| 2462 MHz | 17.64 | 17.64 | >=500KHz | PASS |

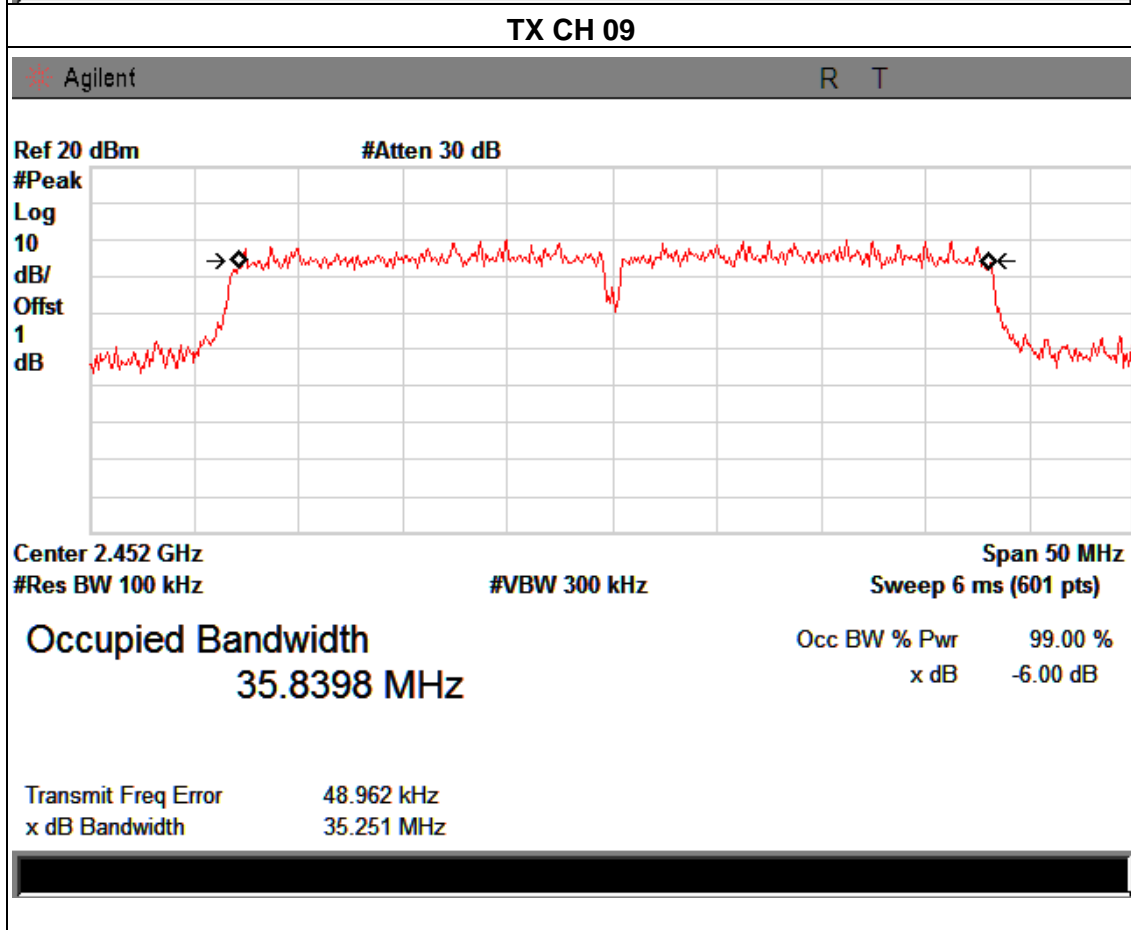
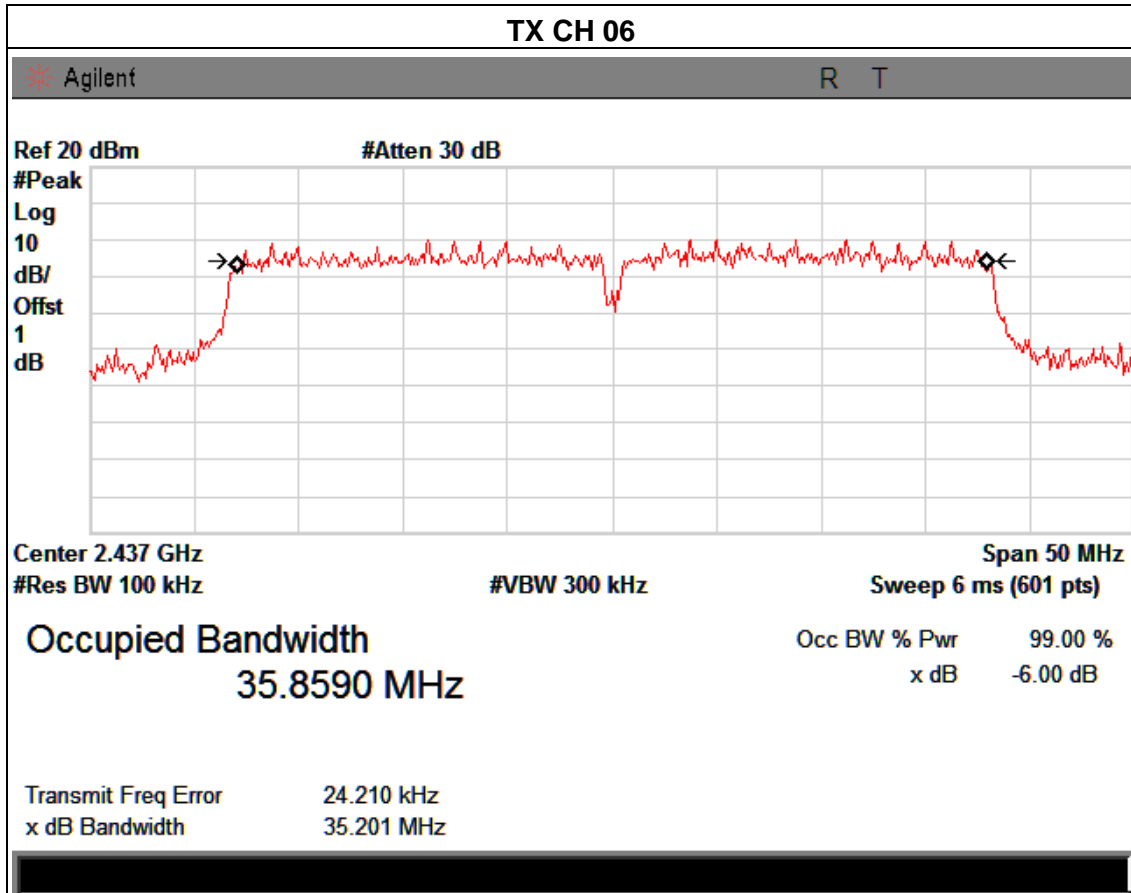




| | | | |
|---------------|----------------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1012 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX n Mode(40M) /CH03, CH06, CH09 | | |

| Frequency | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Channel Separation (MHz) | Result |
|-----------|---------------------|-----------------------|--------------------------|-------------|
| 2422 MHz | 35.07 | 35.81 | >=500KHz | PASS |
| 2437 MHz | 35.20 | 35.85 | >=500KHz | PASS |
| 2452 MHz | 35.25 | 35.83 | >=500KHz | PASS |





6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|-------------------|-----------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Peak Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

| | | | |
|---------------|------------------------------------------|---------------------|---------------------------------|
| EUT : | HDMI WiFi Dongle | Model Name : | 1361-001(HDM-WIFI-AD01) |
| Temperature : | 25 °C | Relative Humidity : | 60% |
| Pressure : | 1012 hPa | Test Voltage : | DC 5V from PC with AC 120V/60Hz |
| Test Mode : | TX b/g/n(20M,40M) Mode /CH01, CH06, CH11 | | |

| TX 802.11b Mode | | | |
|--------------------------|-----------|-----------------------------|-------|
| Test Channe | Frequency | Peak Conducted Output Power | LIMIT |
| | (MHz) | (dBm) | dBm |
| CH01 | 2412 | 9.43 | 30 |
| CH06 | 2437 | 9.19 | 30 |
| CH11 | 2462 | 9.26 | 30 |
| TX 802.11g Mode | | | |
| CH01 | 2412 | 8.89 | 30 |
| CH06 | 2437 | 8.74 | 30 |
| CH11 | 2462 | 8.85 | 30 |
| TX 802.11n20 Mode | | | |
| CH01 | 2412 | 8.53 | 30 |
| CH06 | 2437 | 8.48 | 30 |
| CH11 | 2462 | 8.29 | 30 |
| TX 802.11n40 Mode | | | |
| CH03 | 2422 | 8.04 | 30 |
| CH06 | 2437 | 7.95 | 30 |
| CH09 | 2452 | 7.86 | 30 |

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

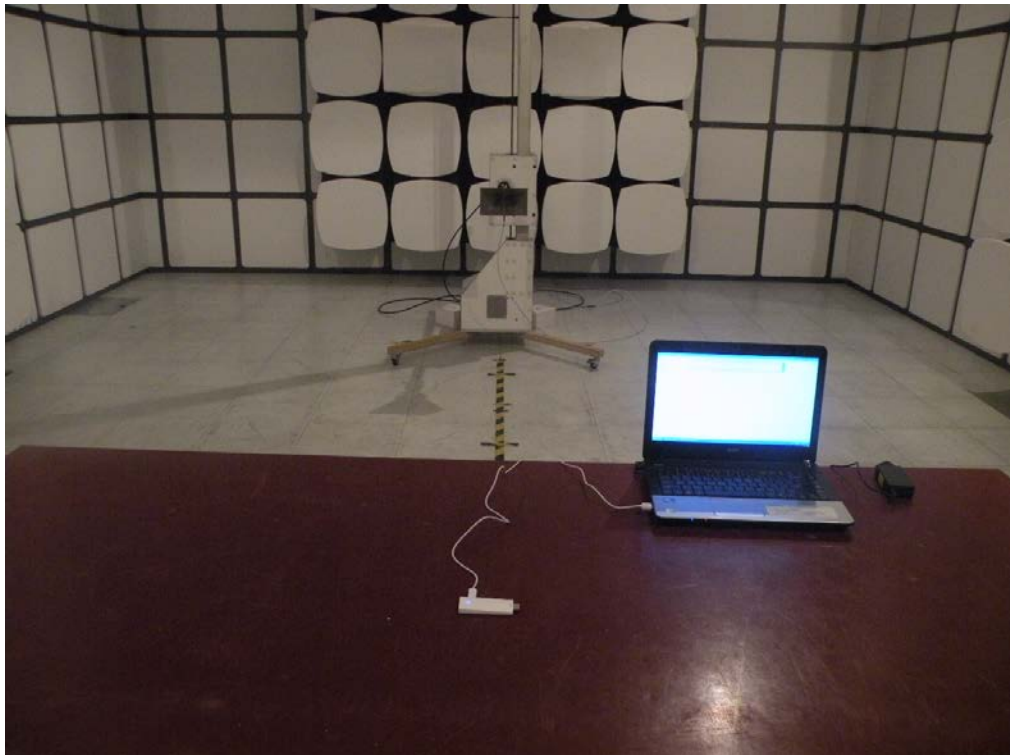
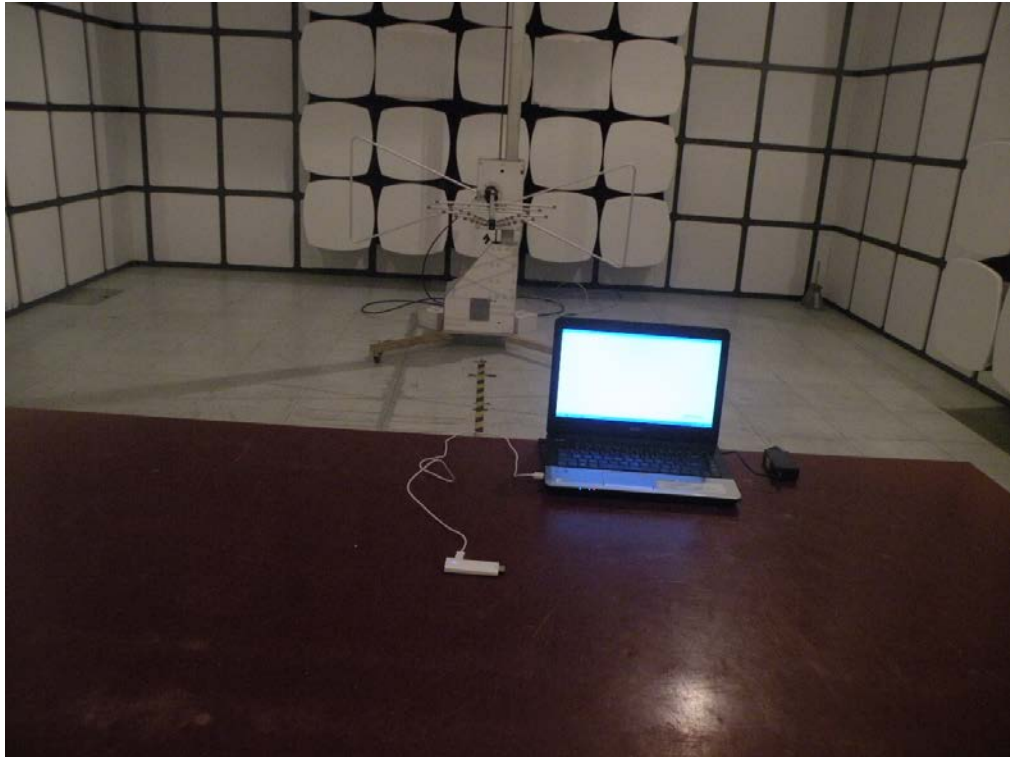
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

The EUT antenna is integral antenna . It comply with the standard requirement.

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

