

**Huawei Technologies Co.,Ltd**

Application  
For  
Certification

**FCC ID: QISY600-U351**

**WCDMA Digital Mobile Phone**

**Model: HUAWEI Y600-U351**

**WiFi Transceiver**

**Report No.: 140311039SZN-001**

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-13]

Prepared and Checked by:

Sign on file

Eason He  
Engineer

Approved by:



Digitally signed  
by Billy Li  
Location:  
Intertek Testing  
Services

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Billy Li  
Supervisor  
Date: March 18, 2014

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
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- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF no.: FCC 15C\_Tx\_b

**Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch**

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## INTERTEK TESTING SERVICES

### MEASUREMENT/TECHNICAL REPORT

**Huawei Technologies Co.,Ltd - MODEL: HUAWEI Y600-U351**

**FCC ID: QISY600-U351**

This report concerns (check one) Original Grant ☒ Class II Change ☐

Equipment Type: DTS - Part 15 Digital Transmission Systems (WiFi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until :   
date

Company Name agrees to notify the Commission by:   
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-13 Edition] provision.

Report prepared by:

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# INTERTEK TESTING SERVICES

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### List of attached file

| <b>Exhibit Type</b>   | <b>File Description</b>    | <b>Filename</b>      |
|-----------------------|----------------------------|----------------------|
| Cover Letter          | Letter of Agency           | agency.pdf           |
| Test Report           | Test Report                | report.pdf           |
| Test Setup Photo      | Radiated Emission          | radiated photos.pdf  |
| Test Setup Photo      | Conducted Emission         | conducted photos.pdf |
| External Photo        | External Photo             | external photos.pdf  |
| Internal Photo        | Internal Photo             | internal photos.pdf  |
| Block Diagram         | Block Diagram              | block.pdf            |
| Schematics            | Circuit Diagram            | circuit.pdf          |
| Operation Description | Technical Description      | descri.pdf           |
| ID Label/Location     | Label Artwork and Location | label.pdf            |
| User Manual           | User Manual                | manual.pdf           |
| Cover Letter          | Confidentiality Letter     | request.pdf          |

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 1**

### **SUMMARY OF TEST RESULTS**

## INTERTEK TESTING SERVICES

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### 1.0 Summary of Test

**Huawei Technologies Co.,Ltd - MODEL: HUAWEI Y600-U351**

**FCC ID: QISY600-U351**

| TEST                                   | REFERENCE    | RESULTS          |
|----------------------------------------|--------------|------------------|
| Max. Output power                      | 15.247(b)    | Pass             |
| 6 dB Bandwidth                         | 15.247(a)(2) | Pass             |
| Max. Power Density                     | 15.247(e)    | Pass             |
| Out of Band Antenna Conducted Emission | 15.247(d)    | Pass             |
| Radiated Emission in Restricted Bands  | 15.247(d)    | Pass             |
| AC Conducted Emission                  | 15.207       | Pass             |
| Antenna Requirement                    | 15.203       | Pass (See Notes) |

Notes: The EUT uses Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

**EXHIBIT 2**

**GENERAL DESCRIPTION**

## INTERTEK TESTING SERVICES

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### 2.0 General Description

#### 2.1 Product Description

The Equipment Under Test (EUT) is a WCDMA Digital Mobile Phone with internal WiFi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing. It is powered by AC/DC Adapter (model: HW-050100U2W) with input of 100-240VAC, 50/60Hz and output of DC5V, 1A. For more detailed features description, please refer to the user's manual.

The product has two SIM card slot, one SIM card slot support WCDMA and GSM, other card slot only support GSM. The two SIM card slot was tested, and only the worst case data was recorded in this report.

Type of Modulation: DBPSK,DQPSK, BPSK,QPSK, 16QAM and 64QAM.  
Antenna Type: Integral Antenna.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 2.2 Related Submittal(s) Grants

This is an application for certification of:  
DTS- Part 15 Digital Transmission Systems (WiFi transmitter portion)

Remaining portions are subject to the following procedures:

1. Receiver portion of WiFi: exempt from technical requirement of this Part.
2. Bluetooth Transceiver (2.4G band): 140311039SZN-002.
3. WCDMA Digital Mobile Phone (2G&3G): 140311039SZN-003.
4. PC downloads (Class B personal computer and peripherals): TS13120032-EME(R1)
5. Other function: 140311039SZN-004.

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### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009) and KDB 558074. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the “**Justification Section**” of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

### 2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

**EXHIBIT 3**  
**SYSTEM TEST CONFIGURATION**

## INTERTEK TESTING SERVICES

### 3.0 System Test Configuration

#### 3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT powered by AC/DC Adapter (Input: 120Vac, 60Hz, Output: 5Vdc, 1A) or powered by PC (Input: 120Vac, 60Hz) was tested separately, and only the worst case data was recorded in this report.

The simultaneous transmission spurious was tested, only the worst case data was recorded in this report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

#### 3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Power Parameters of IEEE 802.11b/g/n

| Test software setting of IEEE 802.11b/g/n |             |                   |                          |
|-------------------------------------------|-------------|-------------------|--------------------------|
| Channel No.                               | Power Level | Data rate         | Modulation type          |
| 1,6,11                                    | 16.0        | 802.11b: 1-11Mbps | DBPSK,DQPSK, BPSK,QPSK   |
|                                           | 14.0        | 802.11g: 6-54Mbps | BPSK, QPSK, 16QAM, 64QAM |

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

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|        |      |                           |                          |
|--------|------|---------------------------|--------------------------|
| 1,6,11 | 14.0 | 802.11n-20M: 6.5-65Mbps   | BPSK, QPSK, 16QAM, 64QAM |
| 3,6,9  | 14.0 | 802.11n-40M: 13.5-135Mbps | BPSK, QPSK, 16QAM, 64QAM |

On 802.11n (20MHz & 40MHz) mode, only one antenna is used for transmission.

### 3.3 Special Accessories

N/A

### 3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

### 3.5 Equipment Modification

Any modifications installed previous to testing by Huawei Technologies Co.,Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

### 3.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List

| Description            | Manufacturer | Model No.                                                       |
|------------------------|--------------|-----------------------------------------------------------------|
| Earphone               | Lianchuang   | NA                                                              |
|                        | Quancheng    |                                                                 |
|                        | Goertek      |                                                                 |
|                        | Merry        |                                                                 |
| Laptop                 | Lenovo       | T420                                                            |
| Battery                | BYD          | HB505076RBC                                                     |
|                        | COSLIGHT     |                                                                 |
|                        | LISHEN       |                                                                 |
| AC/DC Adapter (Huawei) | HuntKey      | HW-050100U2W<br>Input: 100-240Vac, 50/60Hz;<br>Output: 5Vdc, 1A |
|                        | BYD          |                                                                 |

Note: The Model: HUAWEI Y600-U351 have two different AC/DC Adapter power suppliers, which have already arranged the test accordingly, and the worst case data was recorded in this report.

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## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 4**

### **MEASUREMENT RESULTS**

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.0 Measurement Results

#### 4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

- ☐ The antenna power of the EUT was connected to the input of a spectrum analyzer. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.
- ☒ The antenna port of the EUT was connected to the input of a spectrum analyzer. The analyzer was set according to the FCC KDB 558074 spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges and power was read directly in dBm. External attenuation and cable loss were compensated from the measured value.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

| IEEE 802.11b (Antenna Gain = -3 dBi) (BPSK, 1Mbps) |               |                 |
|----------------------------------------------------|---------------|-----------------|
| Frequency (MHz)                                    | Output in dBm | Output in mWatt |
| Low Channel: 2412                                  | 16.45         | 44.15           |
| Middle Channel: 2437                               | 16.94         | 49.43           |
| High Channel: 2462                                 | 16.89         | 48.87           |

| IEEE 802.11g (Antenna Gain = -3 dBi) (DBPSK, 6Mbps) |               |                 |
|-----------------------------------------------------|---------------|-----------------|
| Frequency (MHz)                                     | Output in dBm | Output in mWatt |
| Low Channel: 2412                                   | 19.52         | 89.53           |
| Middle Channel: 2437                                | 19.78         | 95.06           |
| High Channel: 2462                                  | 19.94         | 98.63           |

| IEEE 802.11n 20M (Antenna Gain = -3 dBi) (BPSK, 6.5Mbps) |               |                 |
|----------------------------------------------------------|---------------|-----------------|
| Frequency (MHz)                                          | Output in dBm | Output in mWatt |
| Low Channel: 2412                                        | 19.44         | 87.90           |
| Middle Channel: 2437                                     | 19.61         | 91.41           |

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

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|                    |       |       |
|--------------------|-------|-------|
| High Channel: 2462 | 19.96 | 99.08 |
|--------------------|-------|-------|

| IEEE 802.11n 40M (Antenna Gain = -3 dBi) (BPSK, 13.5Mbps) |               |                 |
|-----------------------------------------------------------|---------------|-----------------|
| Frequency (MHz)                                           | Output in dBm | Output in mWatt |
| Low Channel: 2422                                         | 18.53         | 71.29           |
| Middle Channel: 2437                                      | 19.88         | 97.27           |
| High Channel: 2452                                        | 18.69         | 73.96           |

Cable loss: 0.5 dB    External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

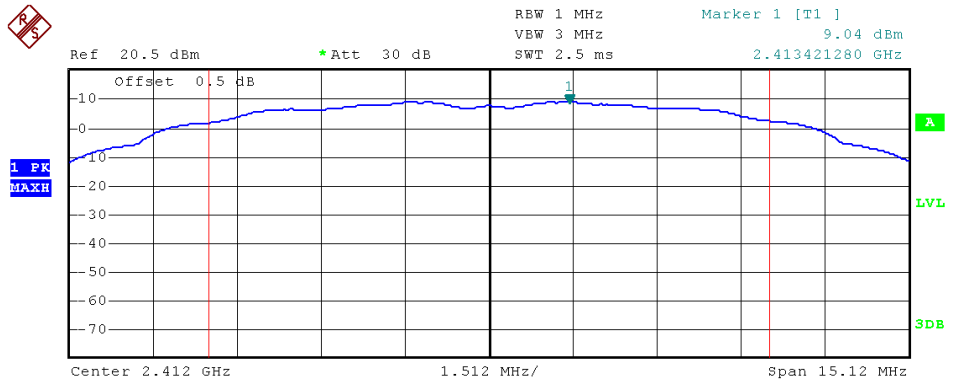
EUT dBm max. output level = 19.96 dBm

For RF Exposure, the information is saved with filename: sar report.pdf.

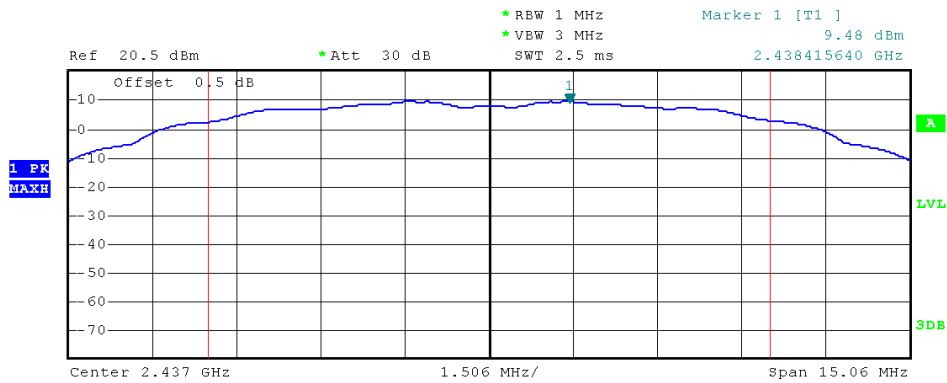
The test plots are attached as below.

# INTERTEK TESTING SERVICES

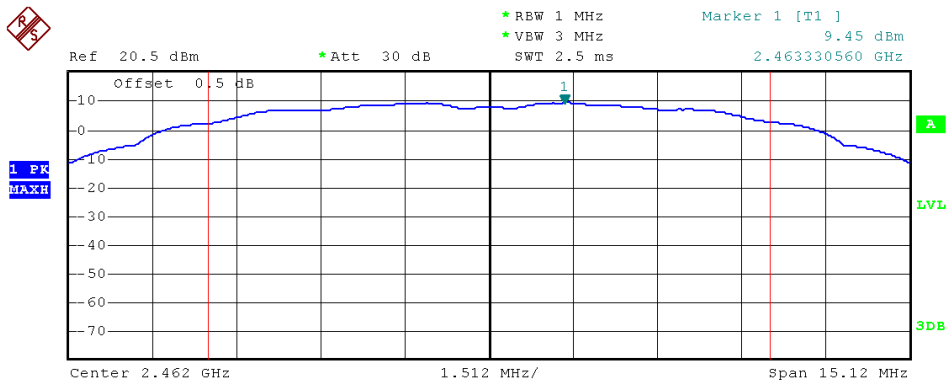
802.11b



**Tx Channel**  
Bandwidth 10.08 MHz Power 16.45 dBm



**Tx Channel**  
Bandwidth 10.04 MHz Power 16.94 dBm

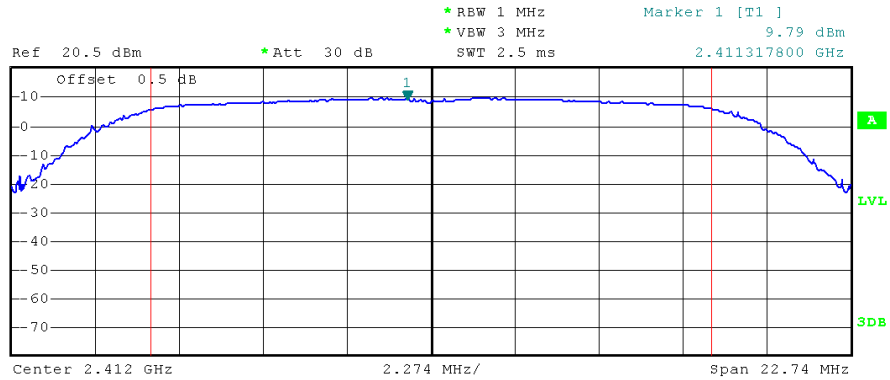


**Tx Channel**  
Bandwidth 10.08 MHz Power 16.89 dBm

TRF no.: FCC 15C\_TX\_b  
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# INTERTEK TESTING SERVICES

802.11g

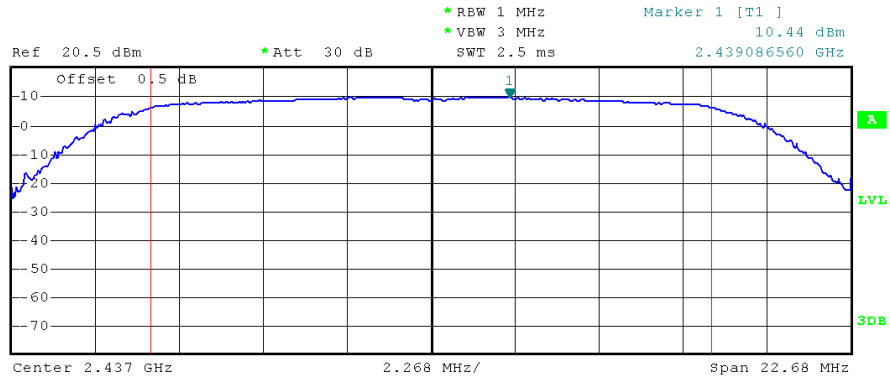


Tx Channel

Bandwidth 15.16 MHz

Power

19.52 dBm

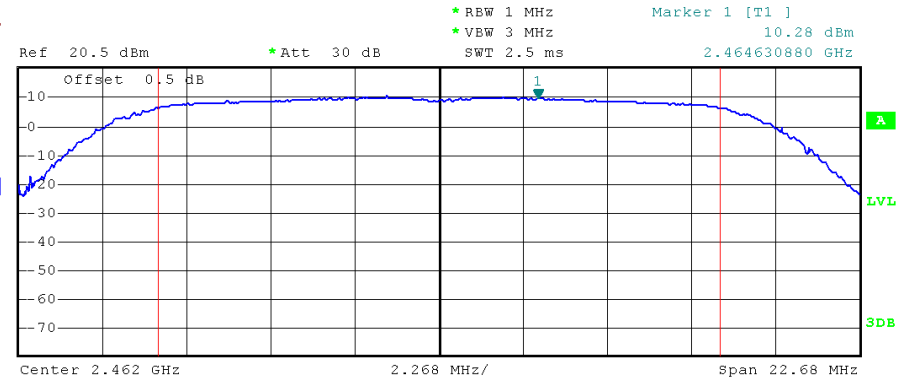


Tx Channel

Bandwidth 15.12 MHz

Power

19.78 dBm



Tx Channel

Bandwidth 15.12 MHz

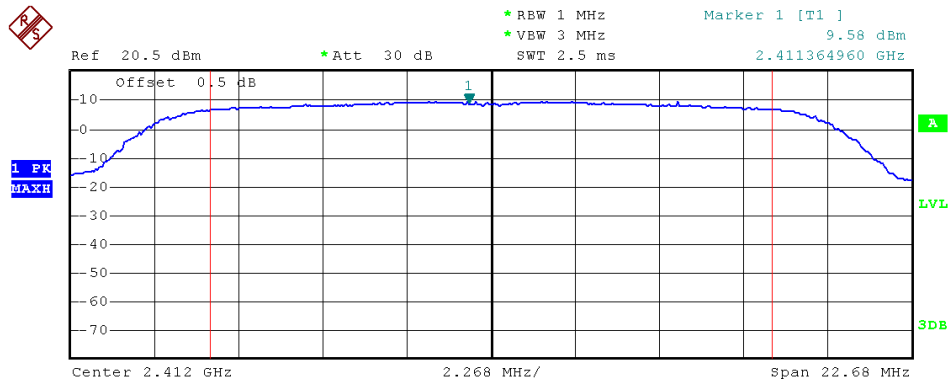
Power

19.94 dBm

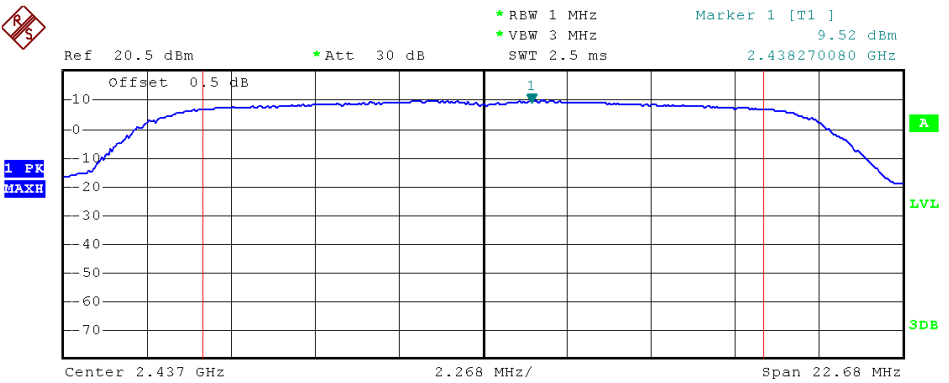
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

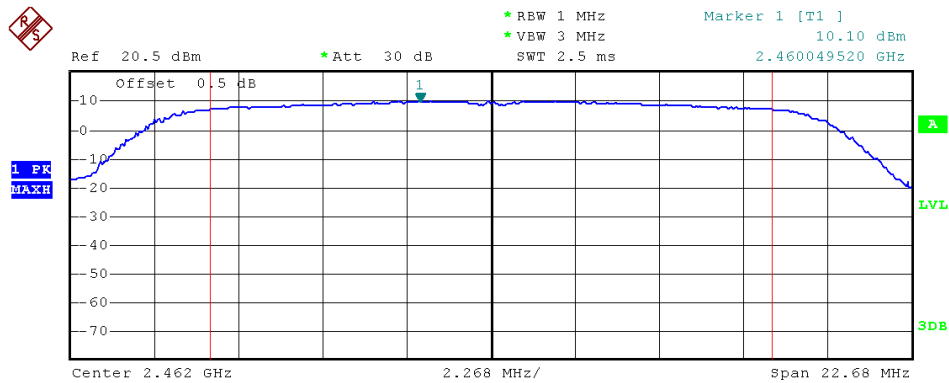
802.11n (HT-20)



**Tx Channel**  
Bandwidth 15.12 MHz Power 19.44 dBm



**Tx Channel**  
Bandwidth 15.12 MHz Power 19.61 dBm

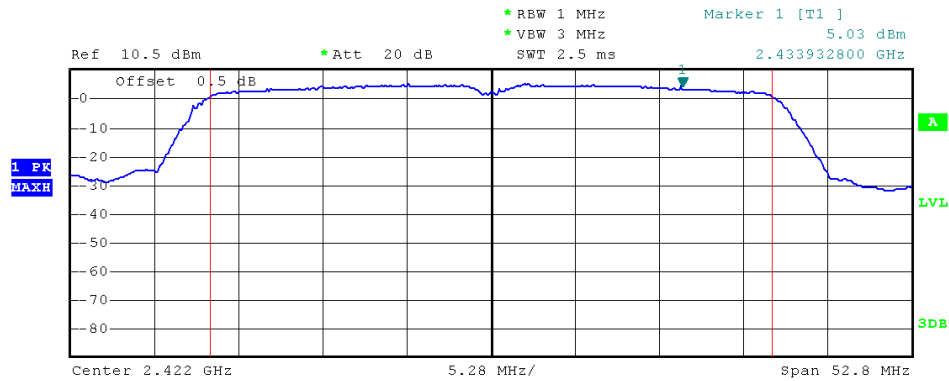


**Tx Channel**  
Bandwidth 15.12 MHz Power 19.96 dBm

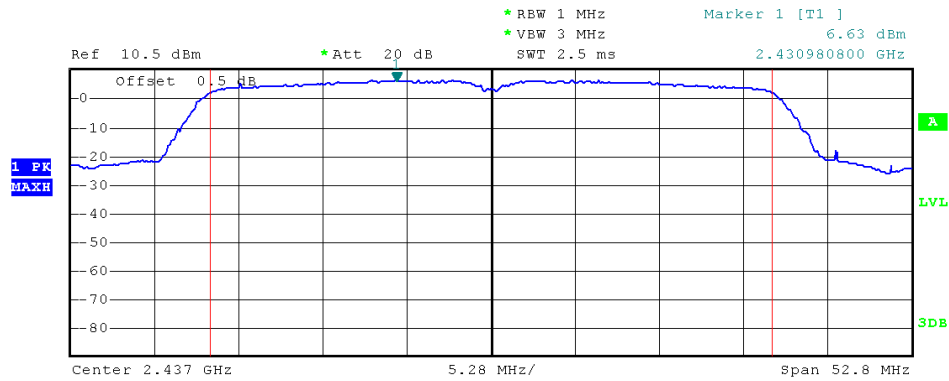
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FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

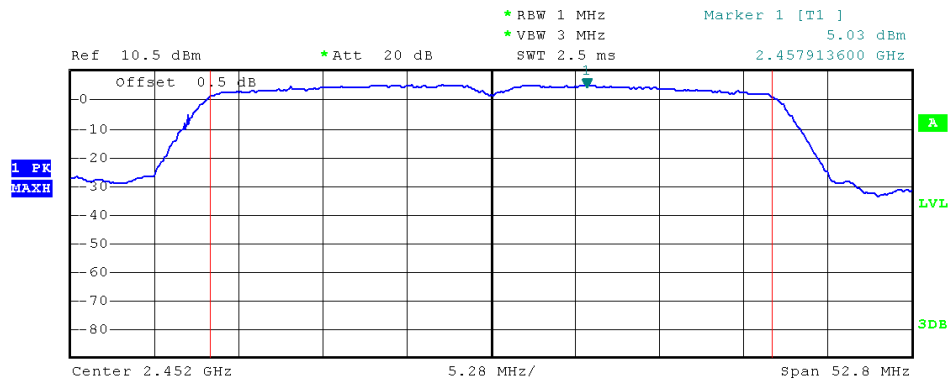
802.11n (HT-40)



Tx Channel  
Bandwidth 35.2 MHz Power 18.53 dBm



Tx Channel  
Bandwidth 35.2 MHz Power 19.88 dBm



Tx Channel  
Bandwidth 35.2 MHz Power 18.69 dBm

TRF no.: FCC 15C\_TX\_b  
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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 KHz according to FCC KDB 558074. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

| IEEE 802.11b (BPSK, 1Mbps) |                      |
|----------------------------|----------------------|
| Frequency (MHz)            | 6 dB Bandwidth (MHz) |
| 2412                       | 10.08                |
| 2437                       | 10.04                |
| 2462                       | 10.08                |

| IEEE 802.11g (DBPSK, 6Mbps) |                      |
|-----------------------------|----------------------|
| Frequency (MHz)             | 6 dB Bandwidth (MHz) |
| 2412                        | 15.16                |
| 2437                        | 15.12                |
| 2462                        | 15.12                |

| IEEE 802.11n 20M (BPSK, 6.5Mbps) |                      |
|----------------------------------|----------------------|
| Frequency (MHz)                  | 6 dB Bandwidth (MHz) |
| 2412                             | 15.12                |
| 2437                             | 15.12                |
| 2462                             | 15.12                |

TRF no.: FCC 15C\_TX\_b

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## INTERTEK TESTING SERVICES

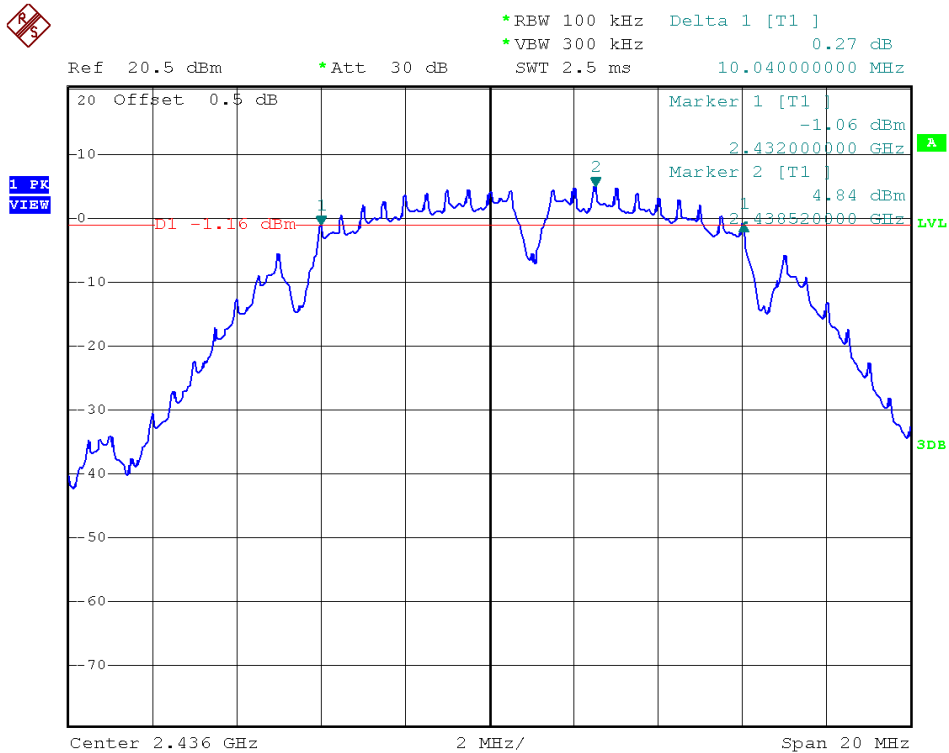
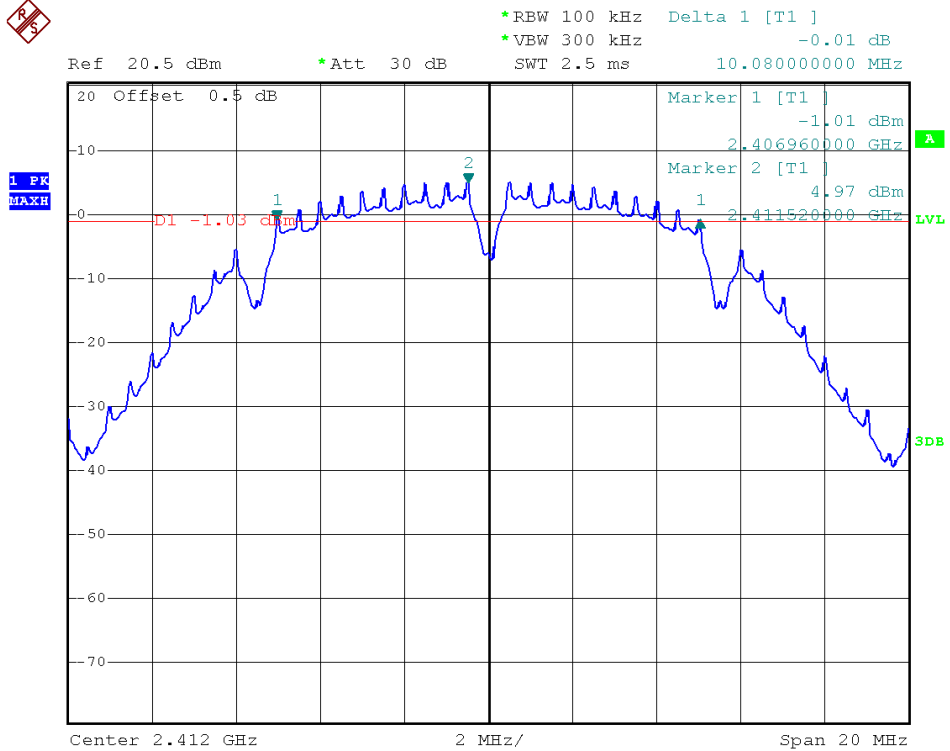
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| IEEE 802.11n 40M (BPSK, 13.5Mbps) |                      |
|-----------------------------------|----------------------|
| Frequency (MHz)                   | 6 dB Bandwidth (MHz) |
| 2422                              | 35.2                 |
| 2437                              | 35.2                 |
| 2452                              | 35.2                 |

The test plots are attached as below.

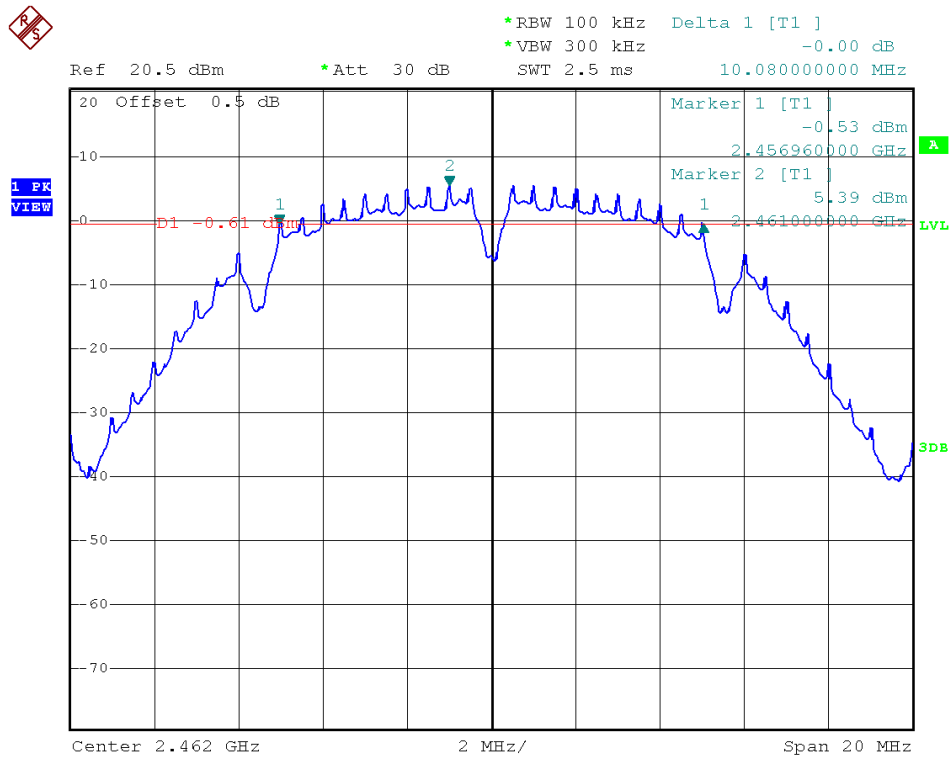
# INTERTEK TESTING SERVICES

802.11b



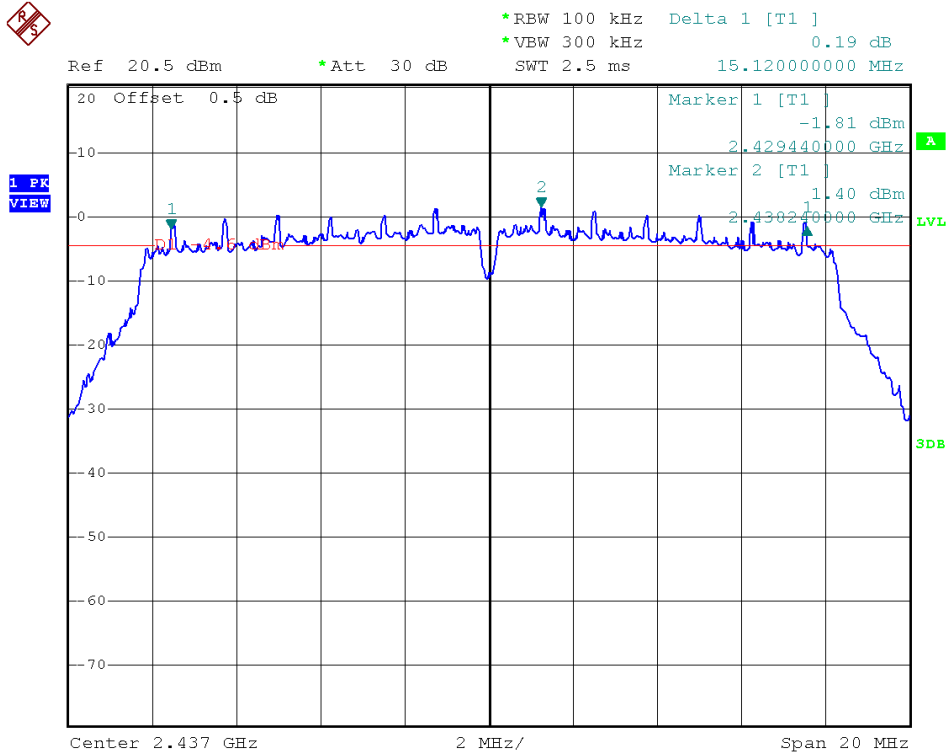
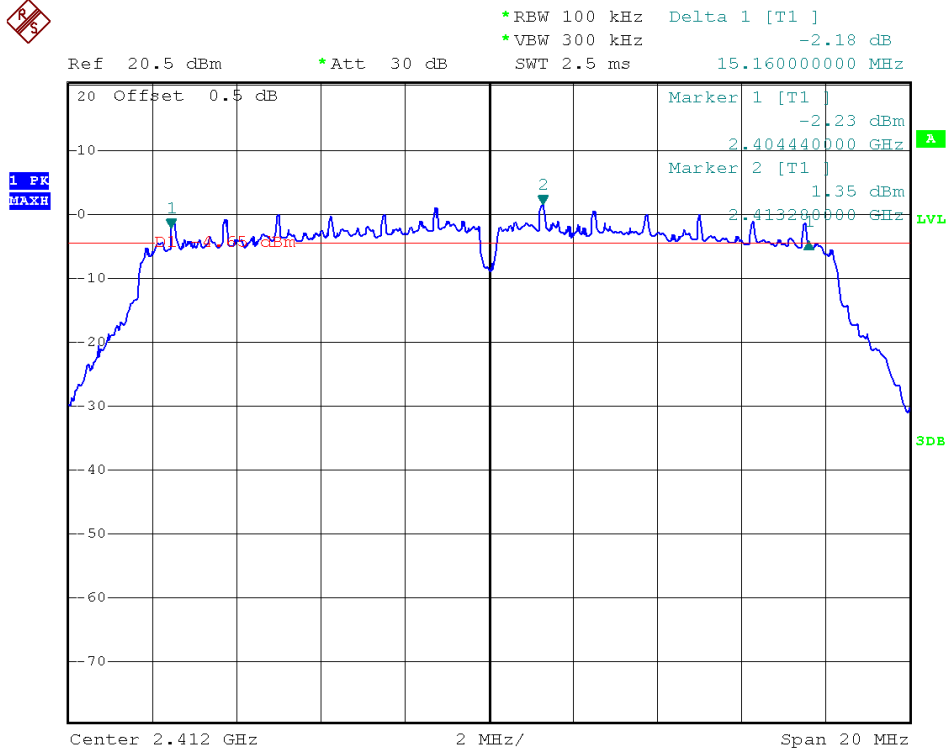
TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



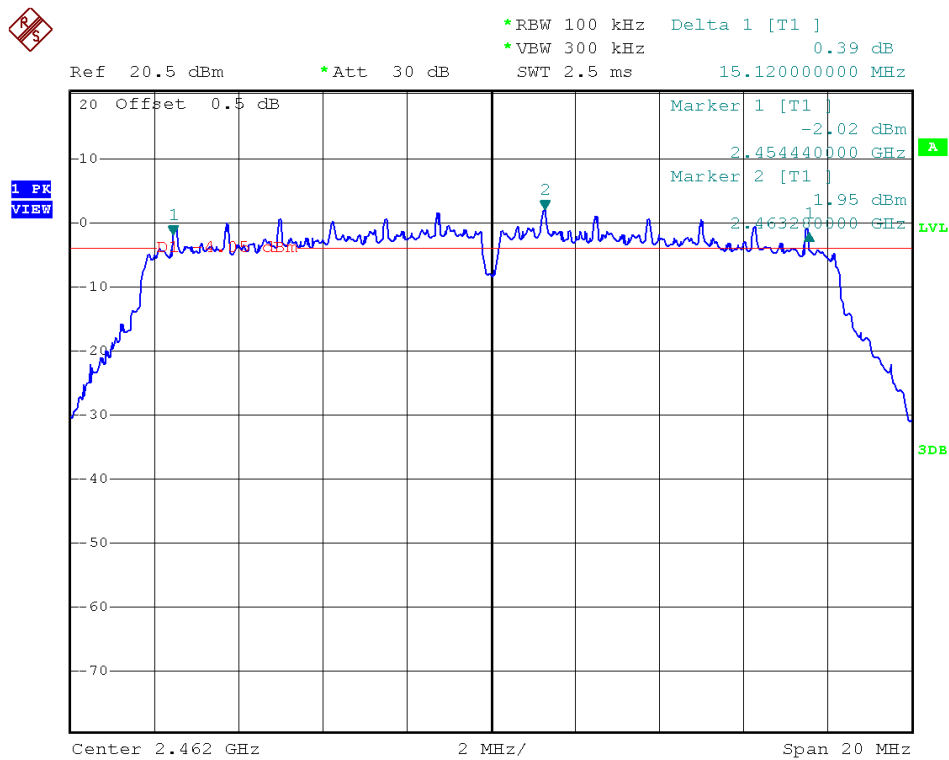
# INTERTEK TESTING SERVICES

802.11g



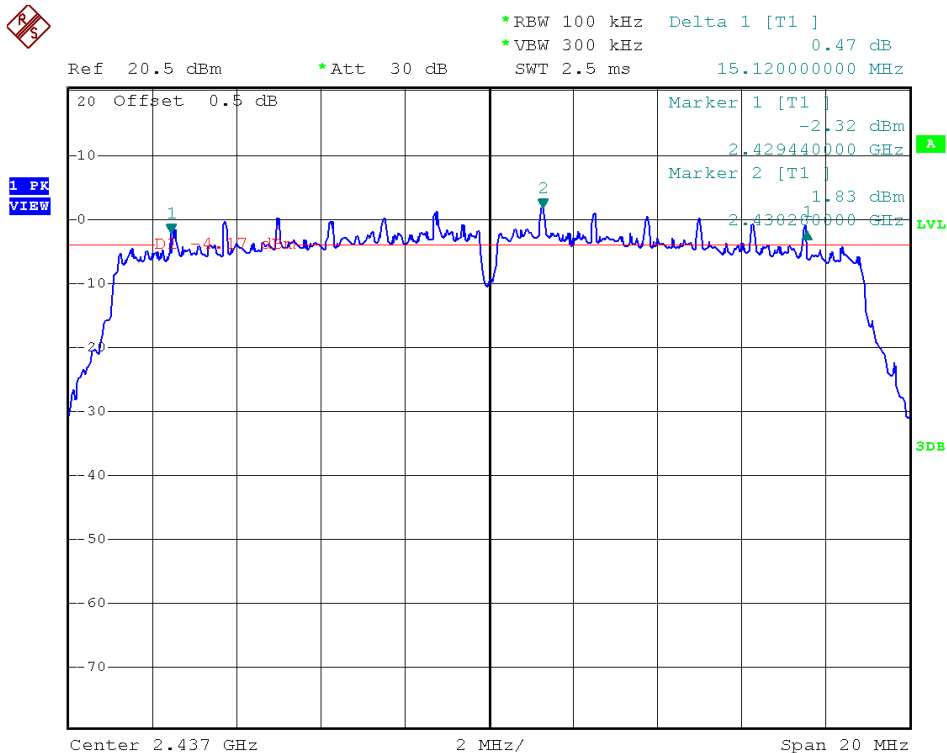
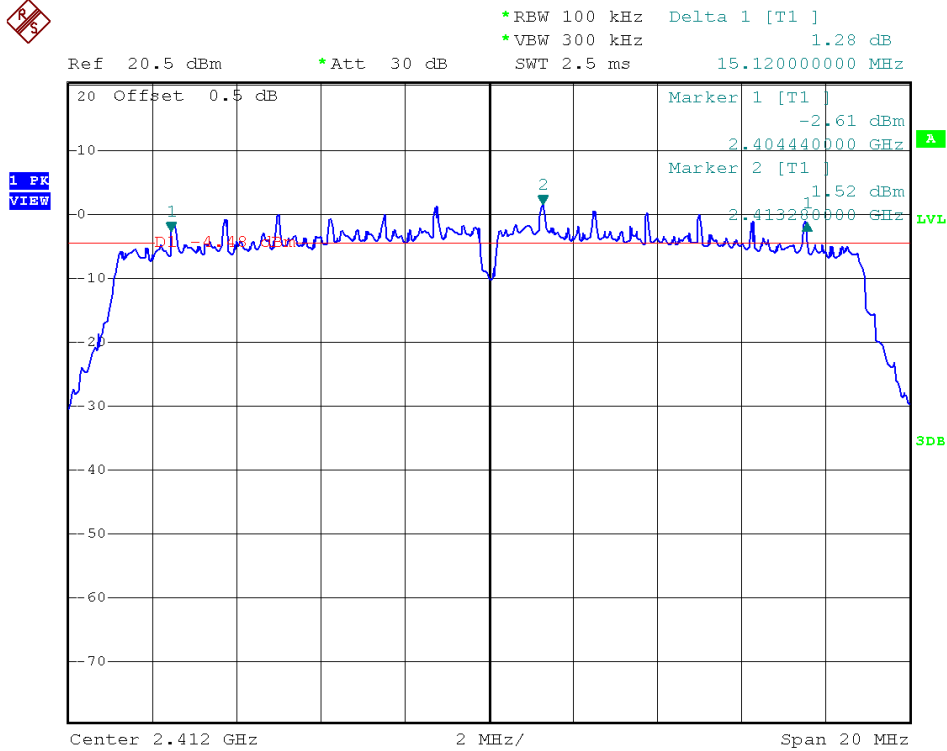
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



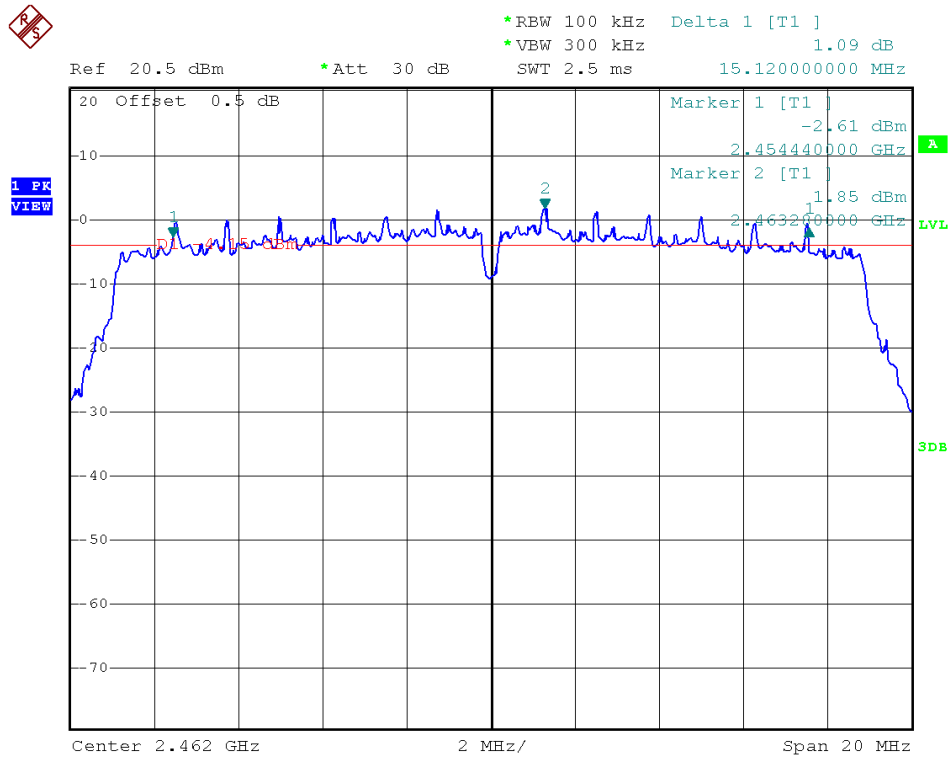
# INTERTEK TESTING SERVICES

802.11n (HT-20)



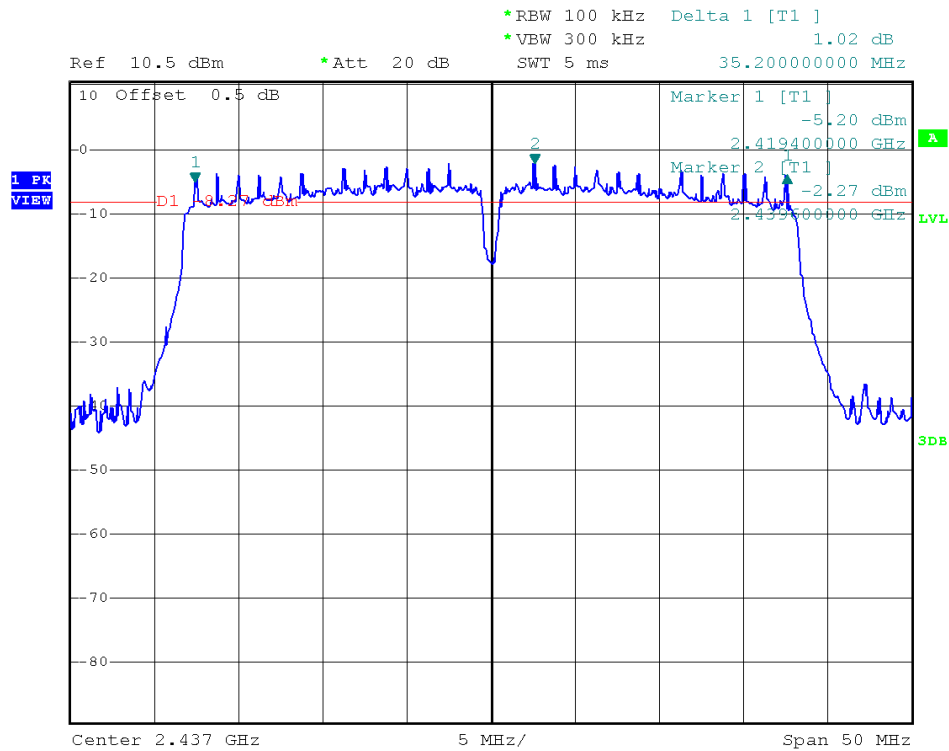
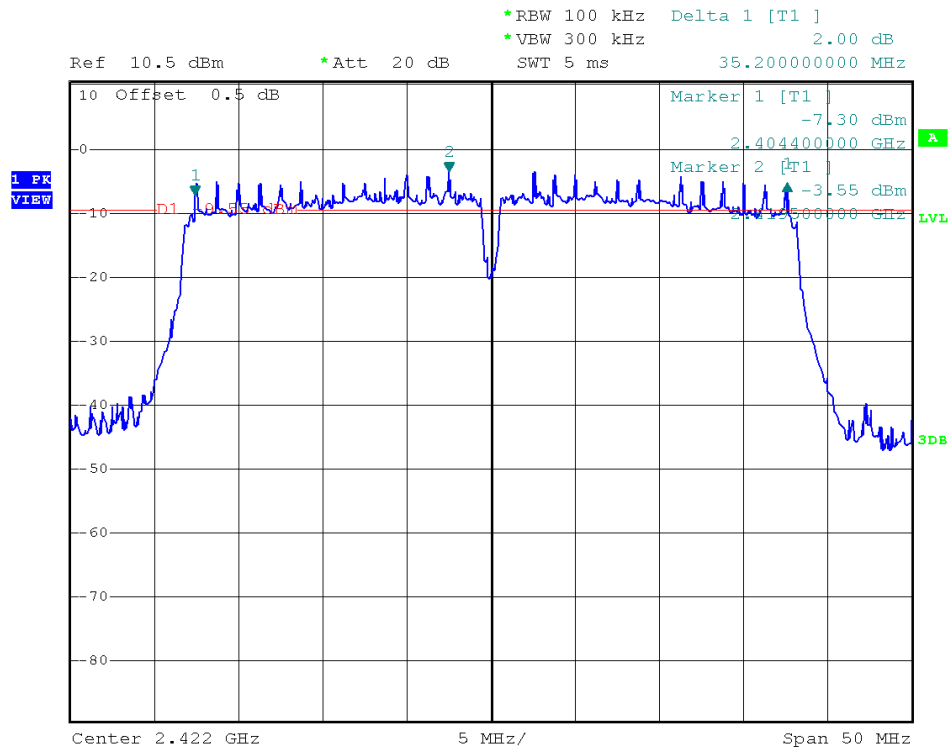
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



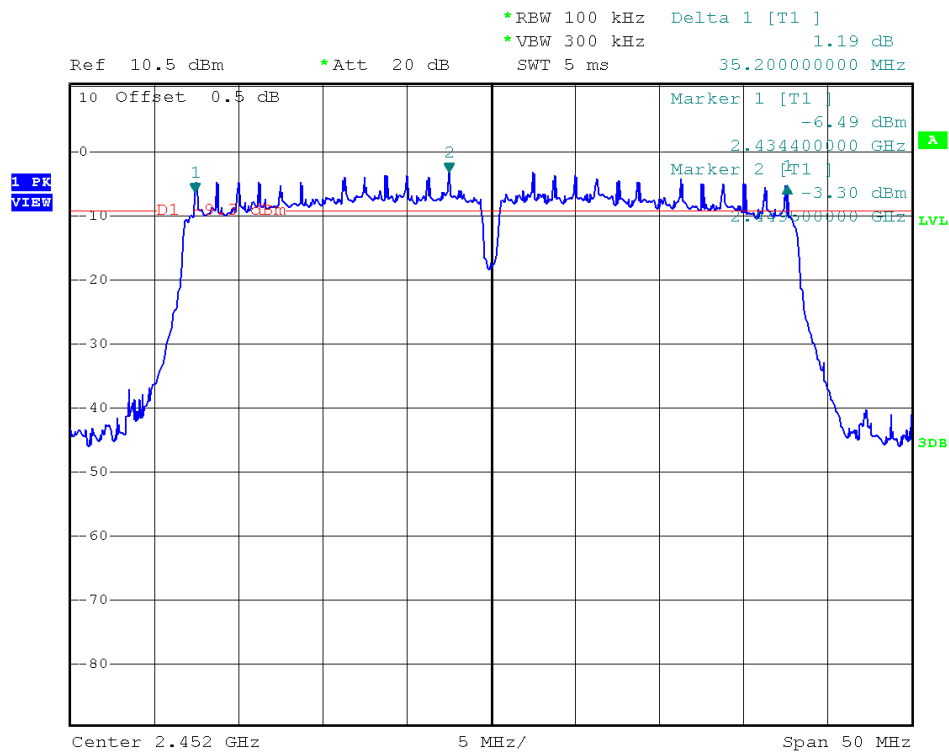
# INTERTEK TESTING SERVICES

802.11n (HT-40)



TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/ 3 kHz.

| IEEE 802.11b (BPSK, 1Mbps) |                               |
|----------------------------|-------------------------------|
| Frequency (MHz)            | Power Density with RBW 100KHz |
| 2412                       | 4.97                          |
| 2437                       | 5.15                          |
| 2462                       | 5.48                          |

| IEEE 802.11g (DBPSK, 6Mbps) |                               |
|-----------------------------|-------------------------------|
| Frequency (MHz)             | Power Density with RBW 100KHz |
| 2412                        | 1.58                          |
| 2437                        | 1.79                          |
| 2462                        | 1.94                          |

| IEEE 802.11n 20M (BPSK, 6.5Mbps) |                               |
|----------------------------------|-------------------------------|
| Frequency (MHz)                  | Power Density with RBW 100KHz |
| 2412                             | 1.68                          |
| 2437                             | 1.88                          |
| 2462                             | 2.10                          |

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

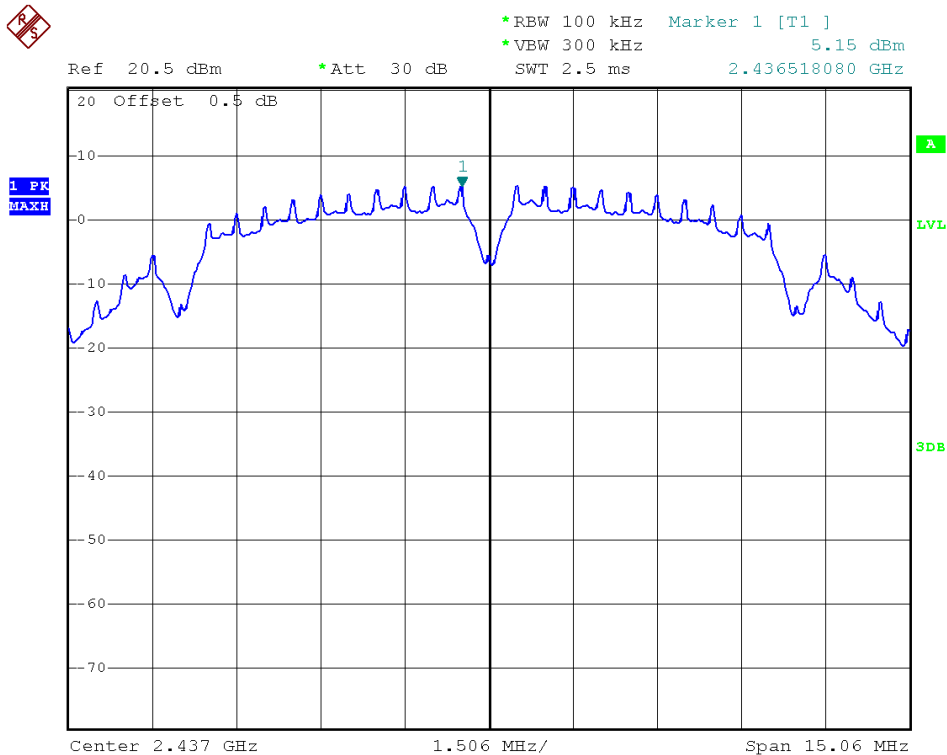
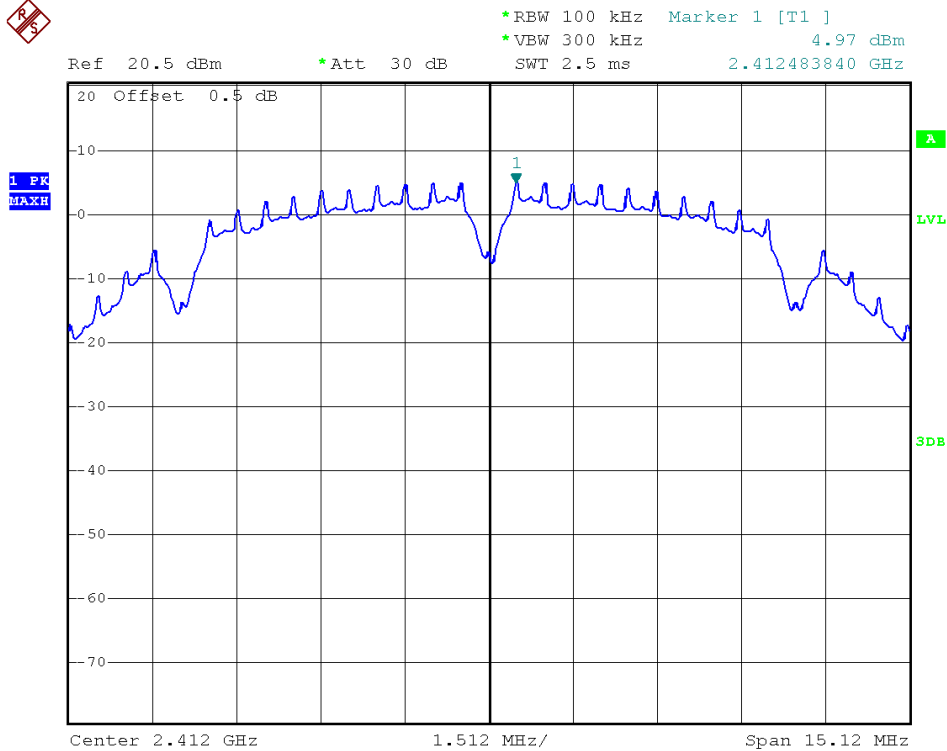
---

| IEEE 802.11n 40M (BPSK, 13.5Mbps) |                               |
|-----------------------------------|-------------------------------|
| Frequency (MHz)                   | Power Density with RBW 100KHz |
| 2422                              | -3.32                         |
| 2437                              | -2.34                         |
| 2452                              | -3.15                         |

The test plots are attached as below.

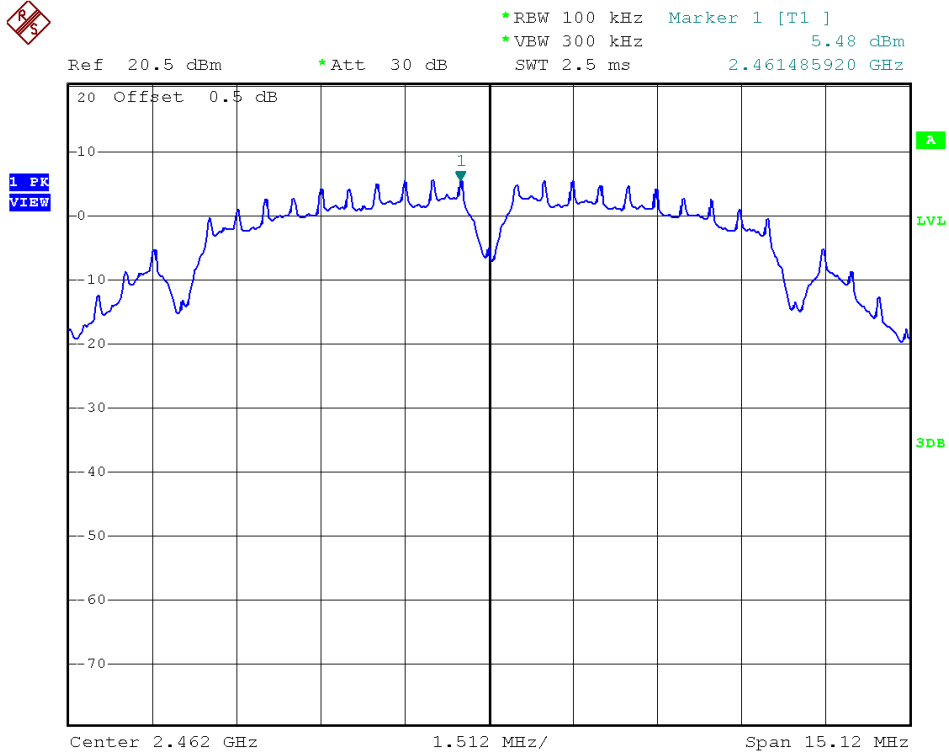
# INTERTEK TESTING SERVICES

802.11b



TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

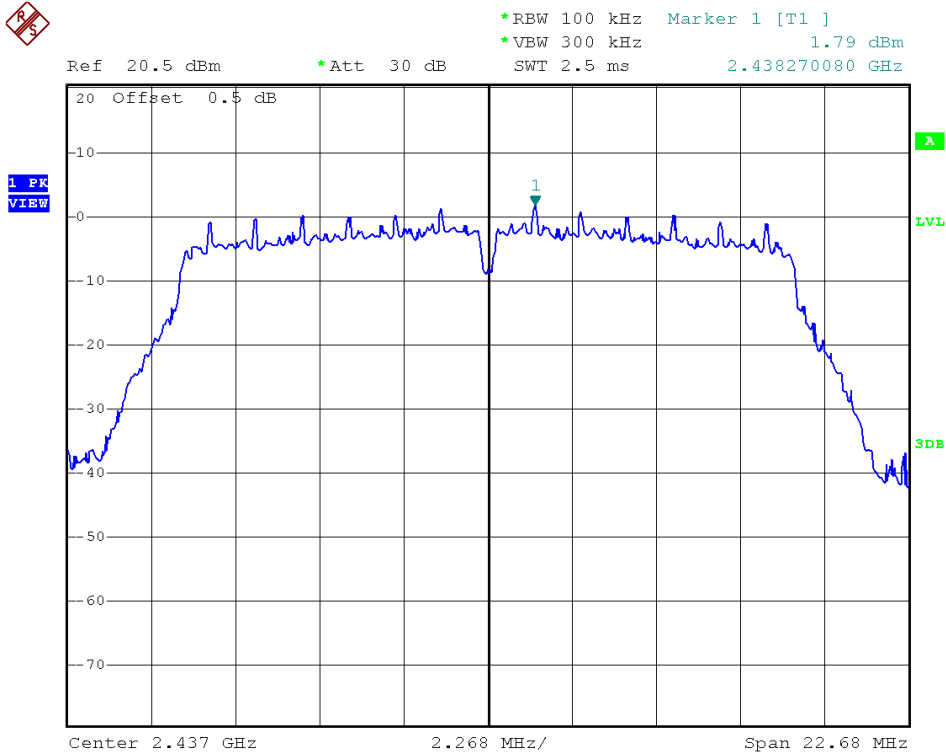
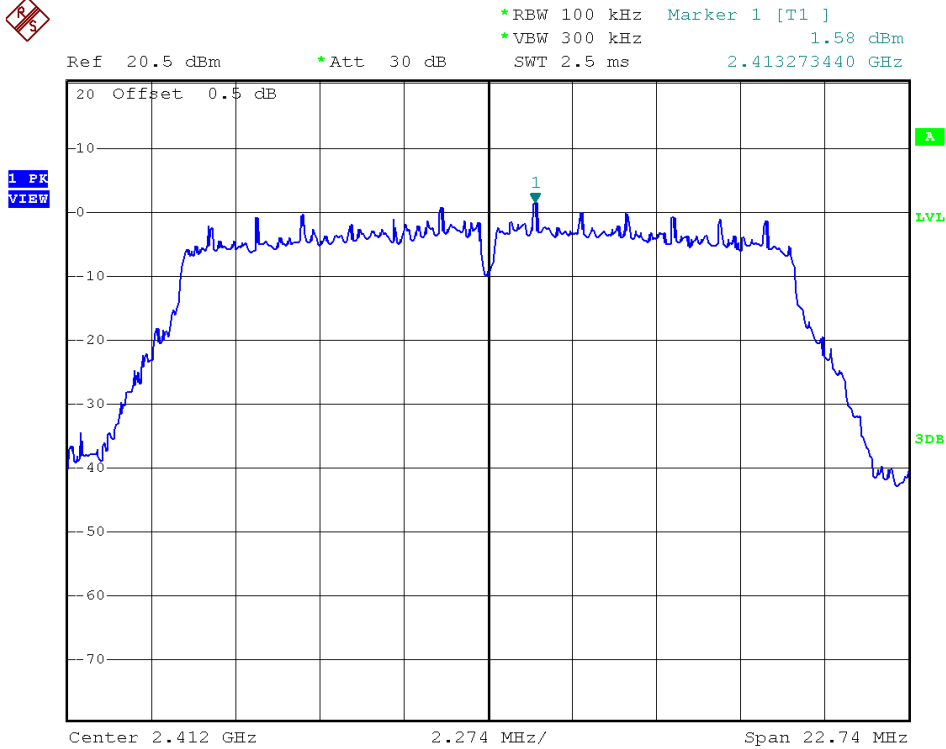
# INTERTEK TESTING SERVICES



TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

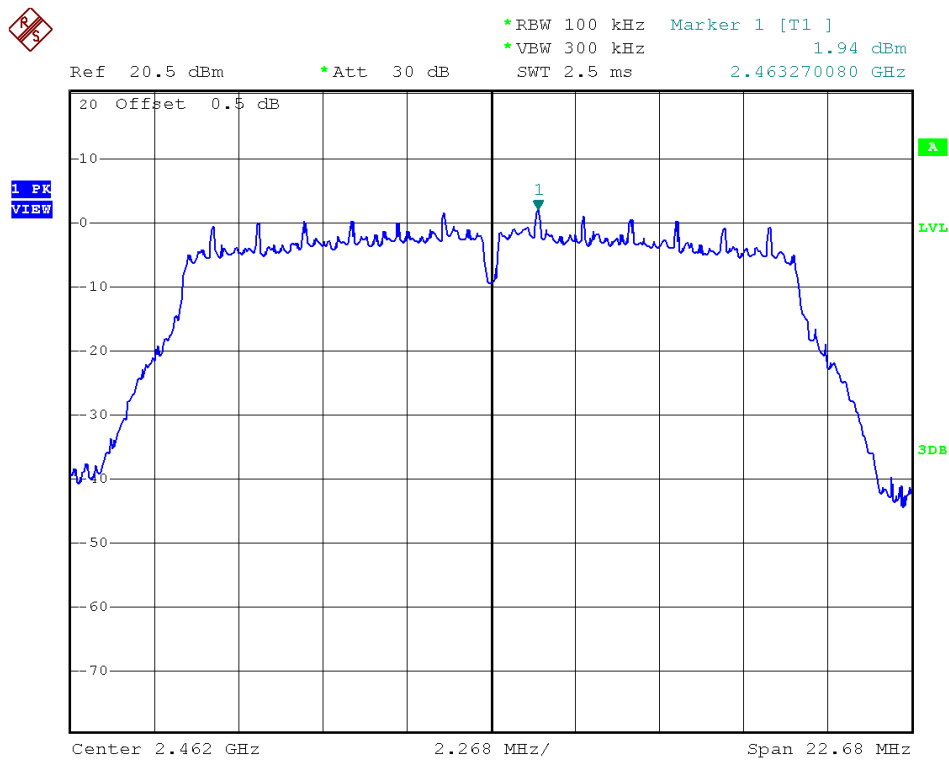
# INTERTEK TESTING SERVICES

802.11g



TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

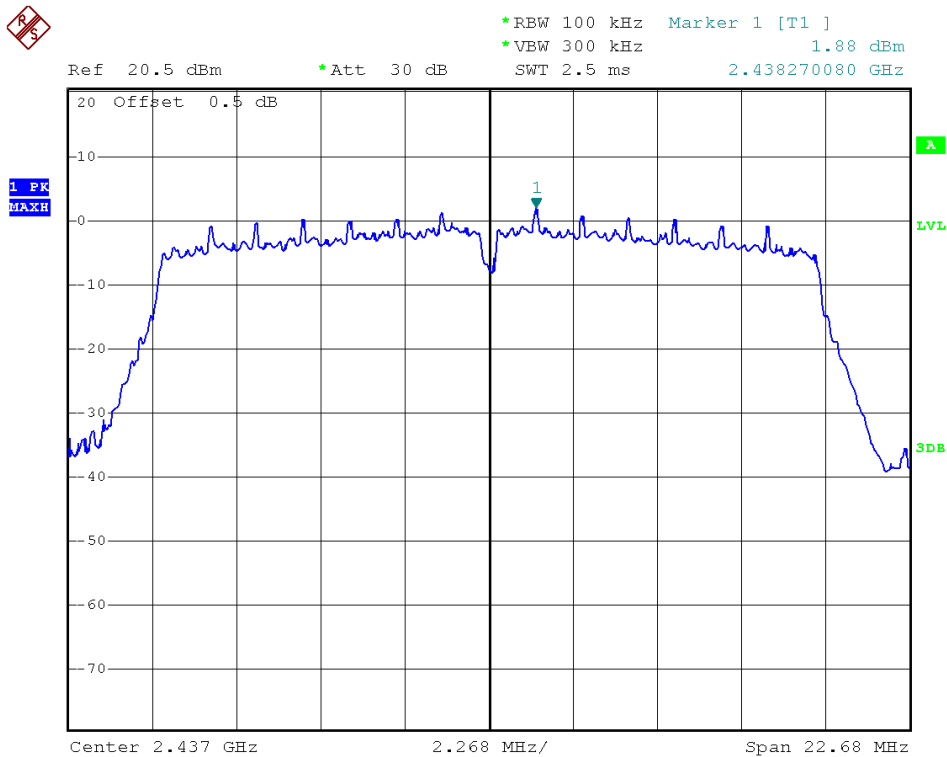
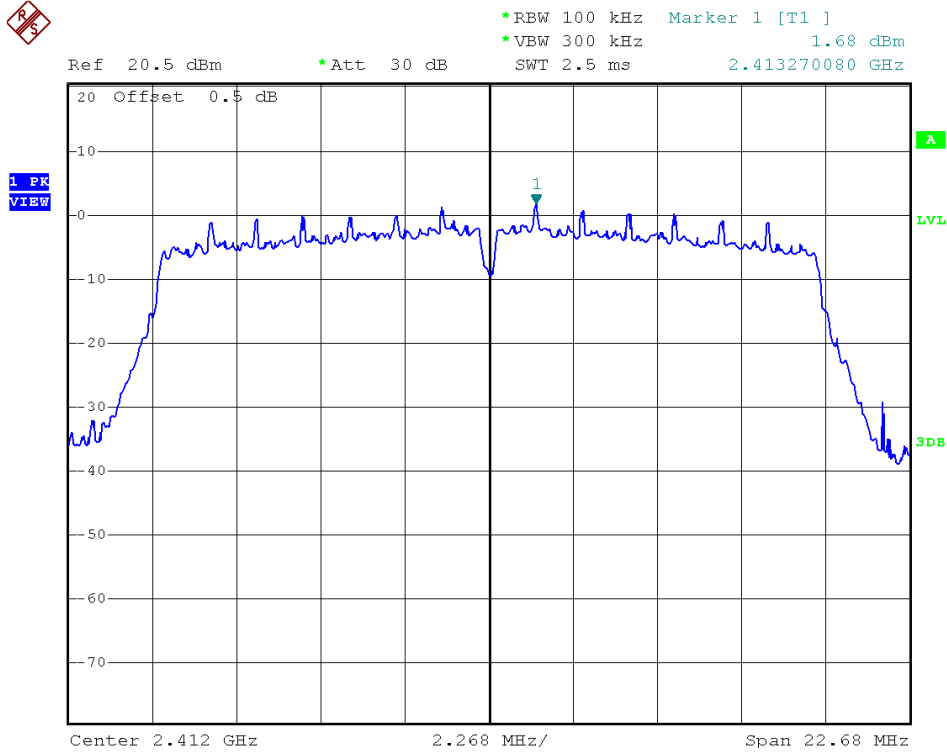
## INTERTEK TESTING SERVICES



TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

802.11n (HT-20)



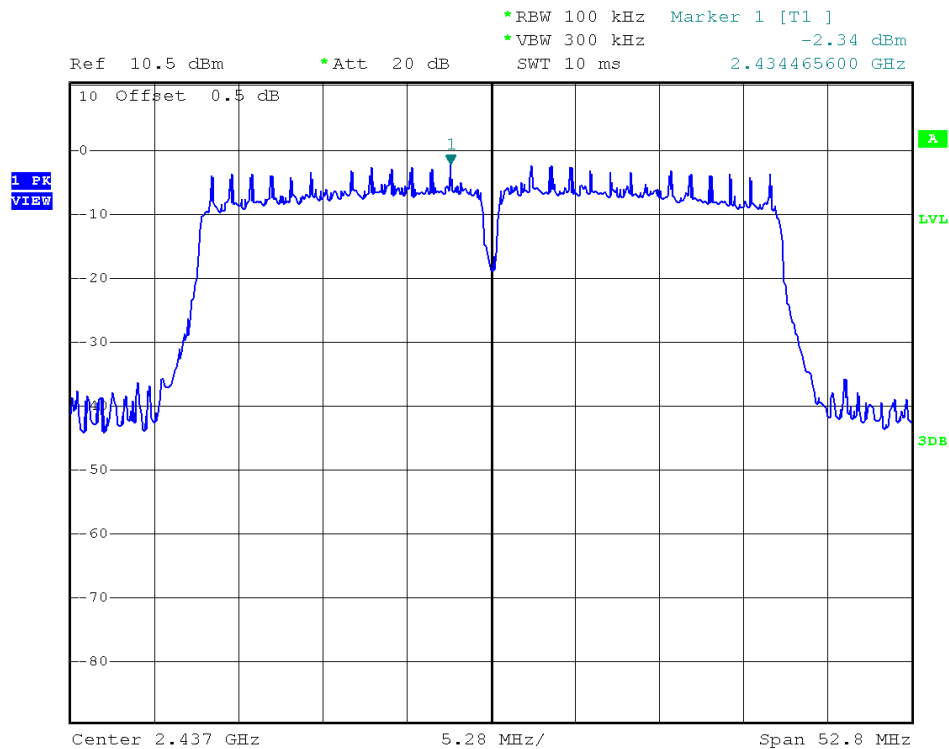
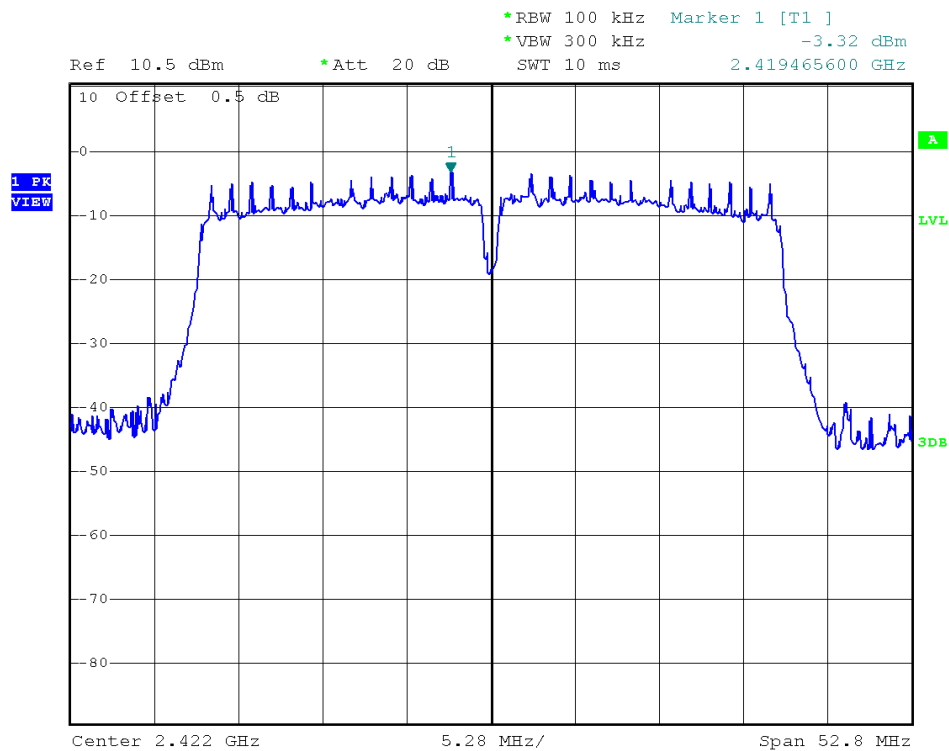
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001



33

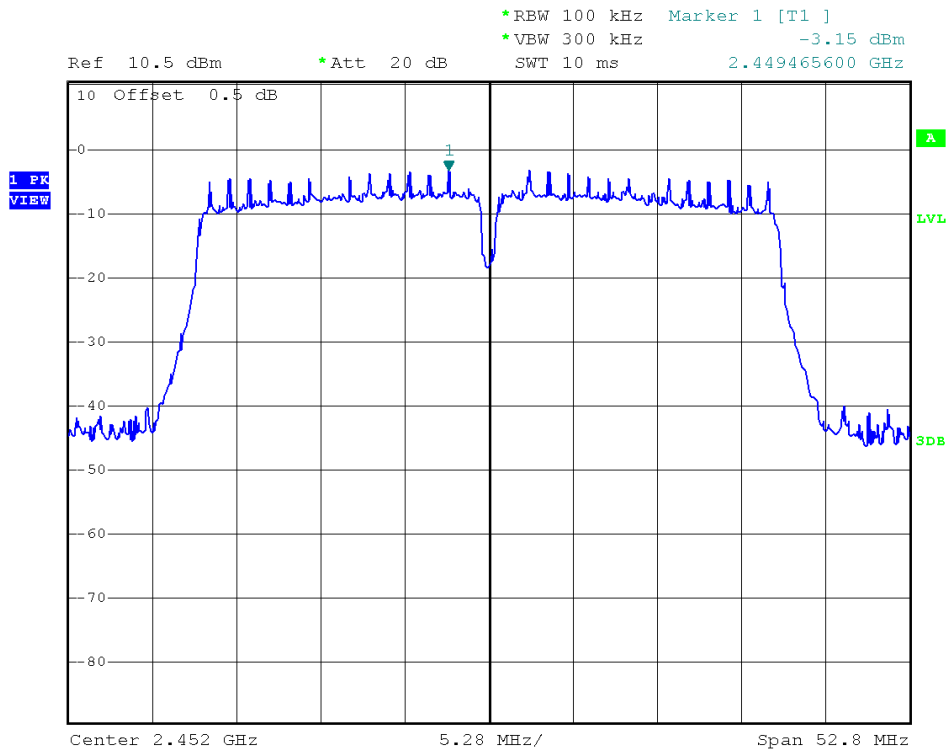
## INTERTEK TESTING SERVICES

802.11n (HT-40)



TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES



## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: March 14, 2014  
Model: HUAWEI Y600-U351

#### 4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20dB below that of the maximum in-band 100 kHz emission, or else shall meet the general limits for radiated emissions at frequencies outside the passband, whichever results in lower attenuation. The Measurement Procedure was set according to the FCC KDB 558074.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plot for out of band conducted emissions data with rate of 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n HT20 and 13.5Mbps for 802.11n HT40.

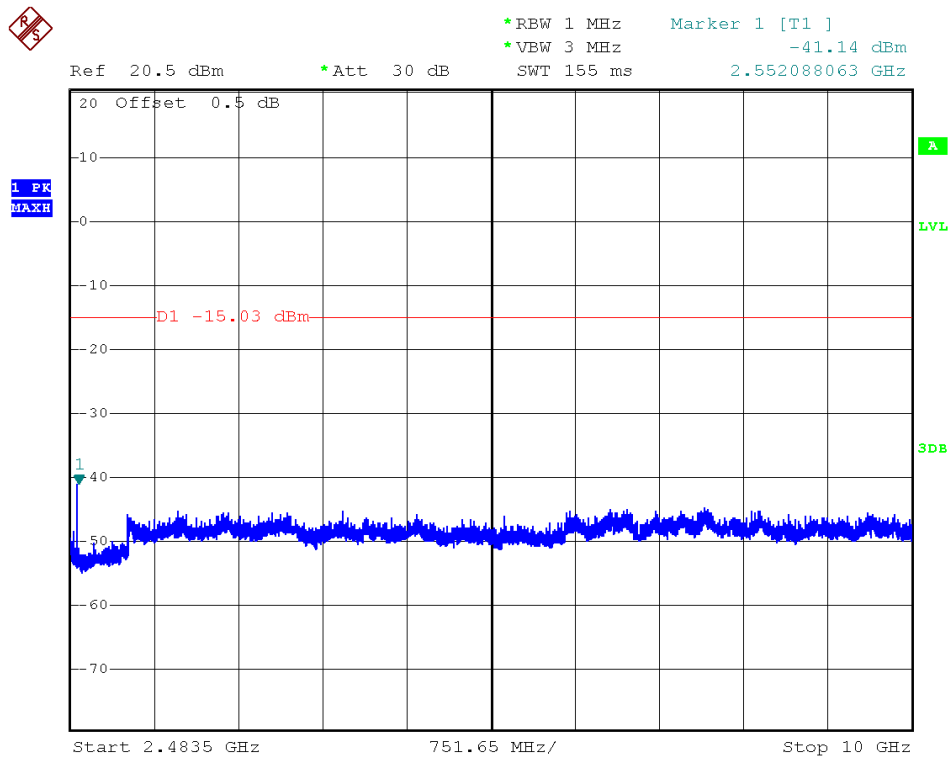
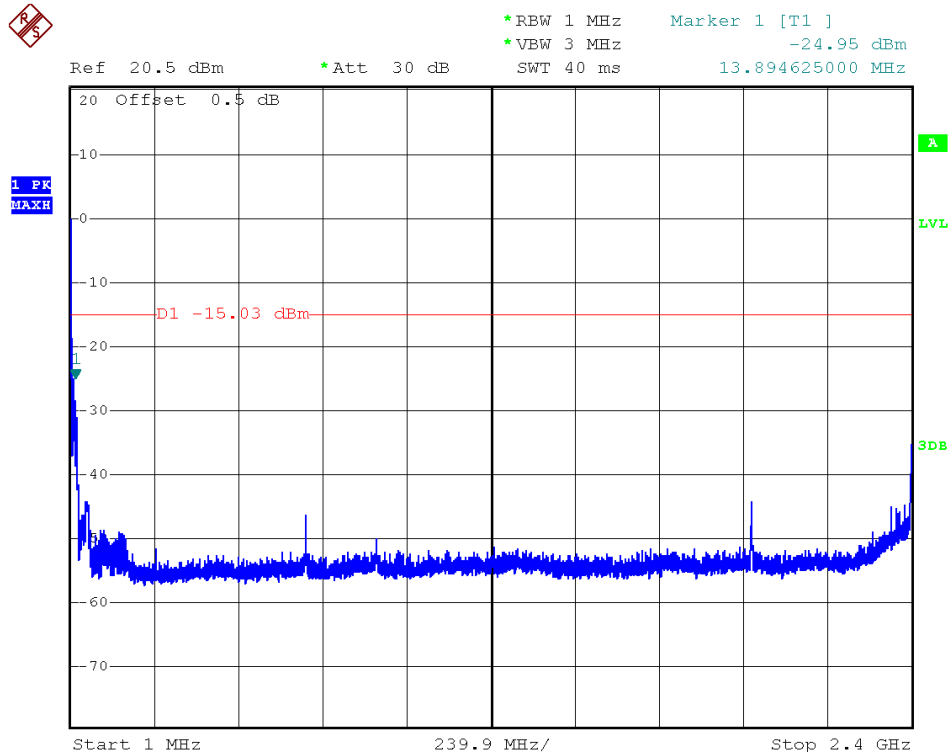
The test plots showed all spurious emission and up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

## INTERTEK TESTING SERVICES

802.11b

Channel 1 (2412MHz) Reference Level: 4.97dBm

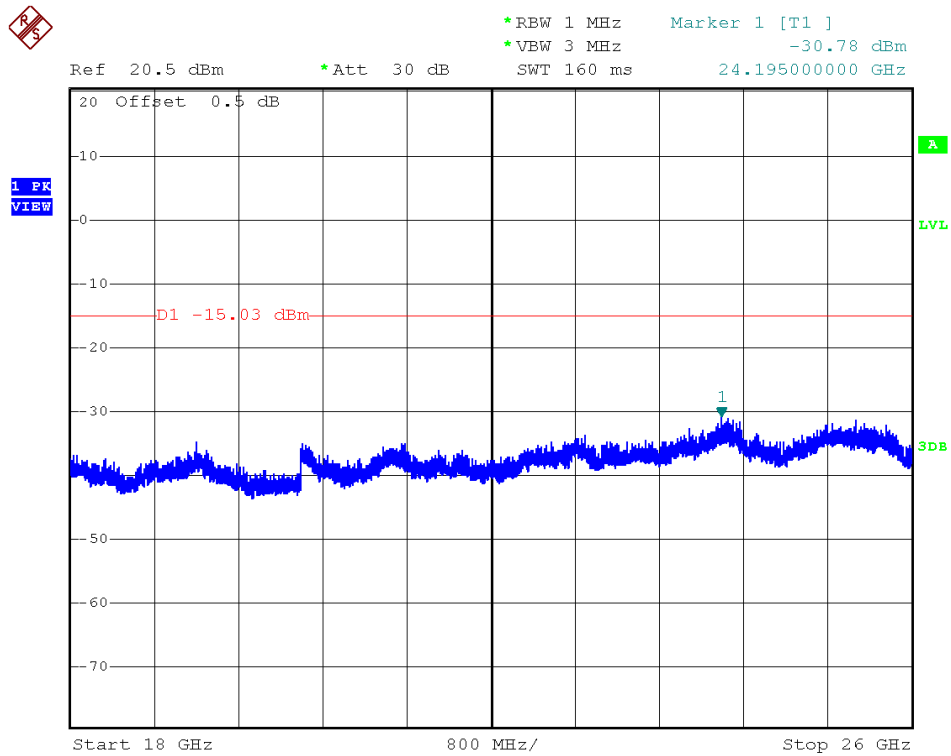
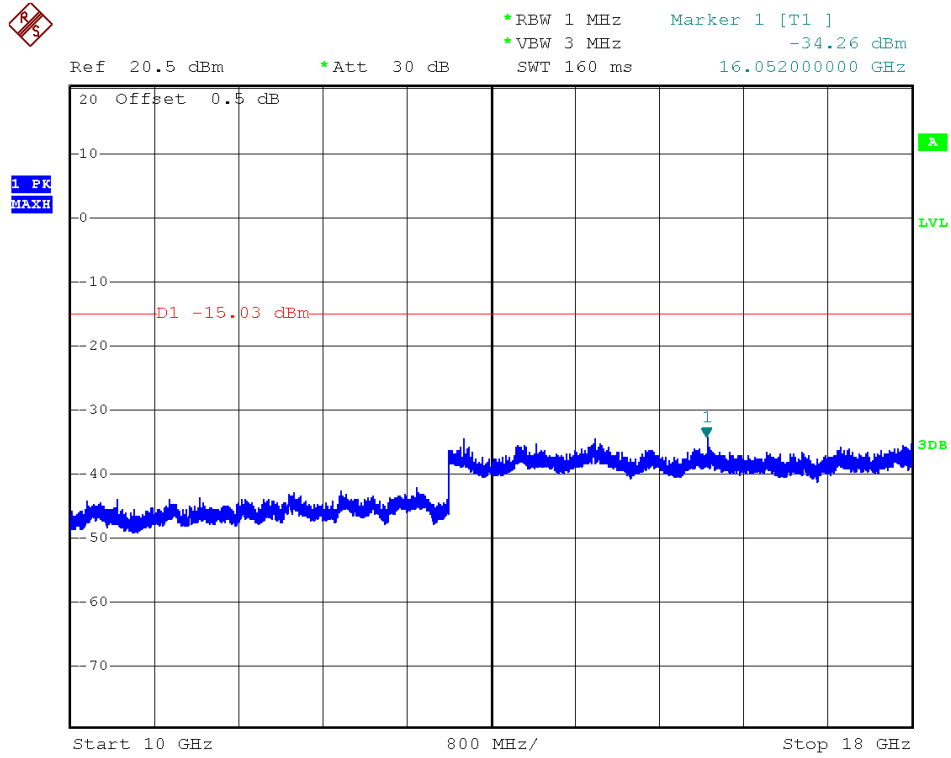


TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

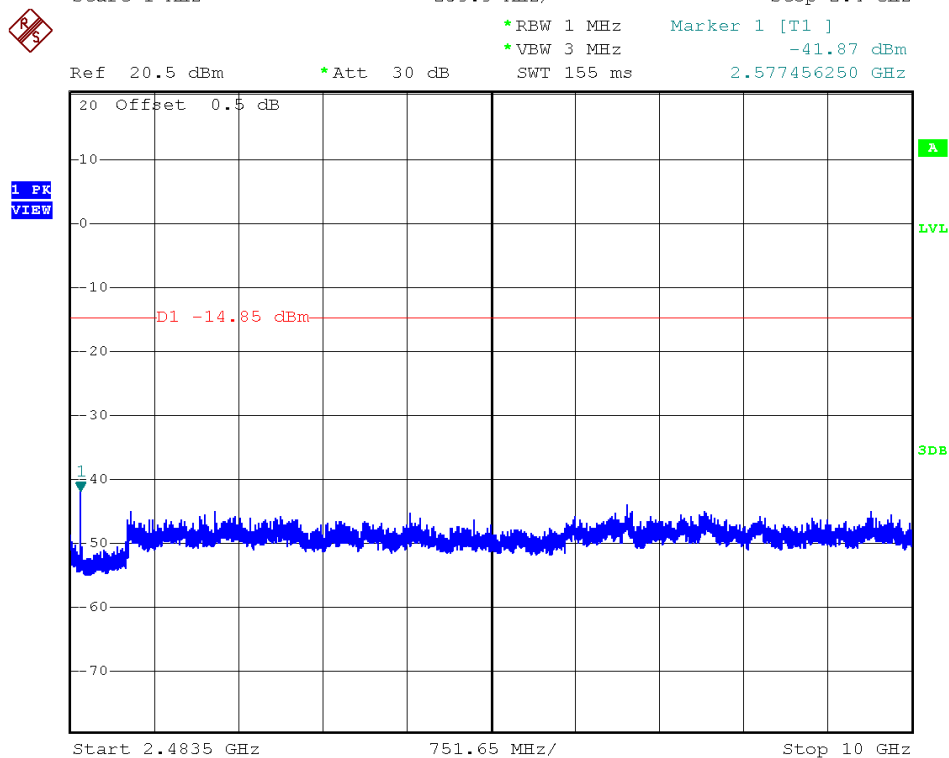
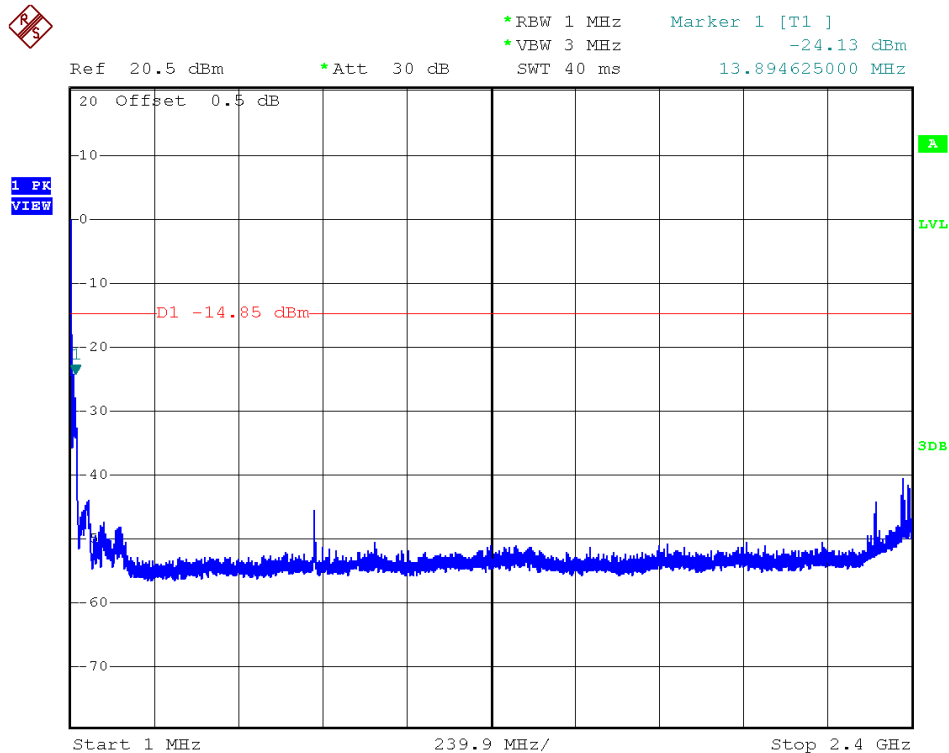
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



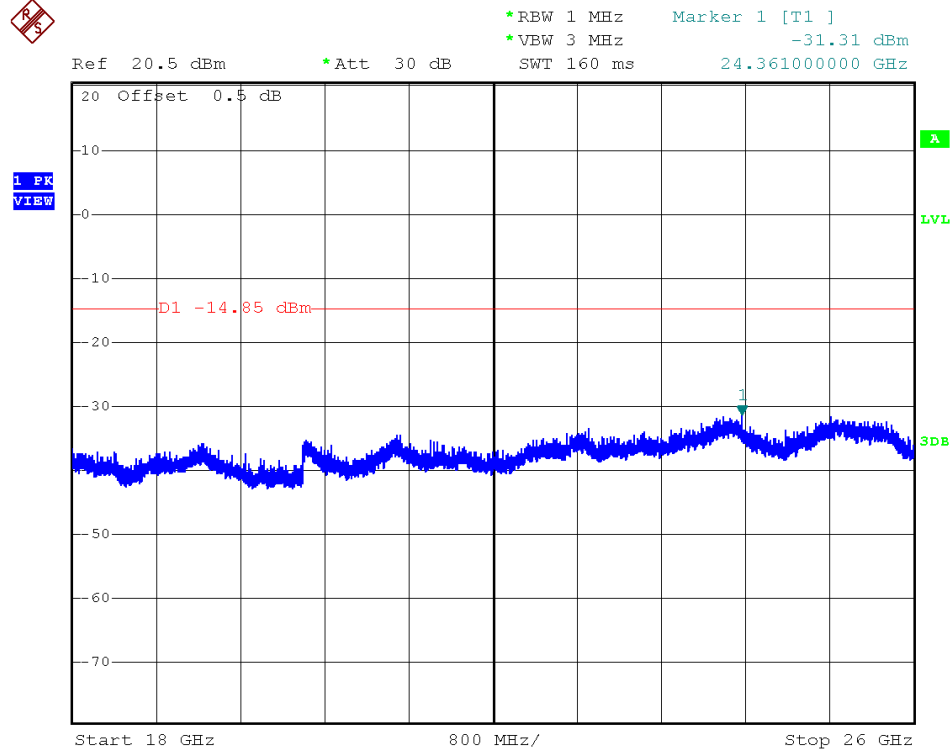
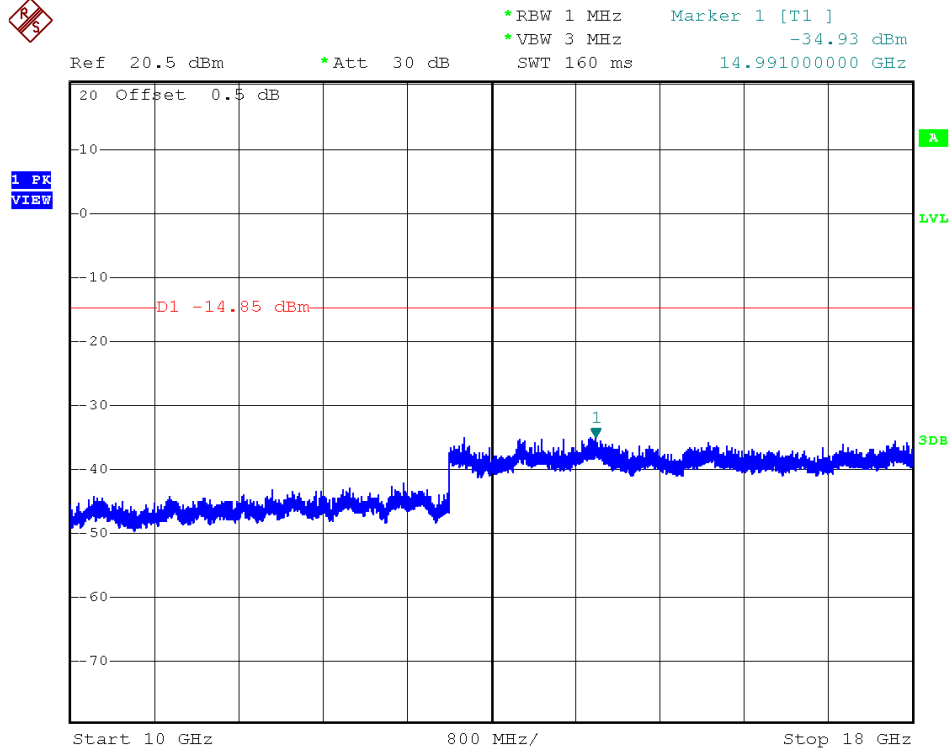
## INTERTEK TESTING SERVICES

Channel 6 (2437MHz) Reference Level: 5.15dBm



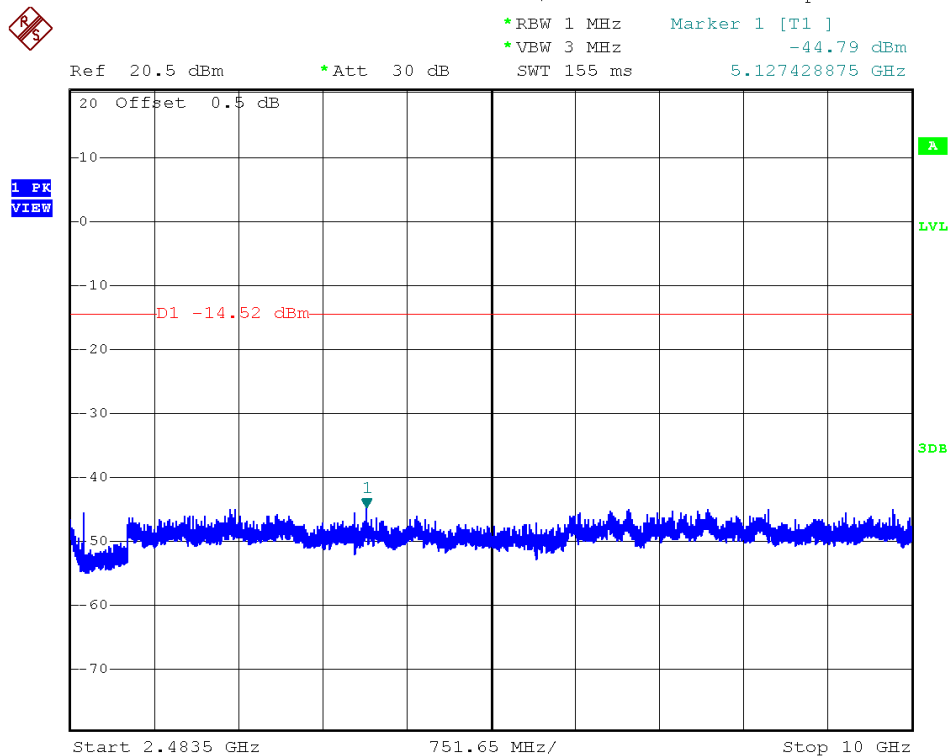
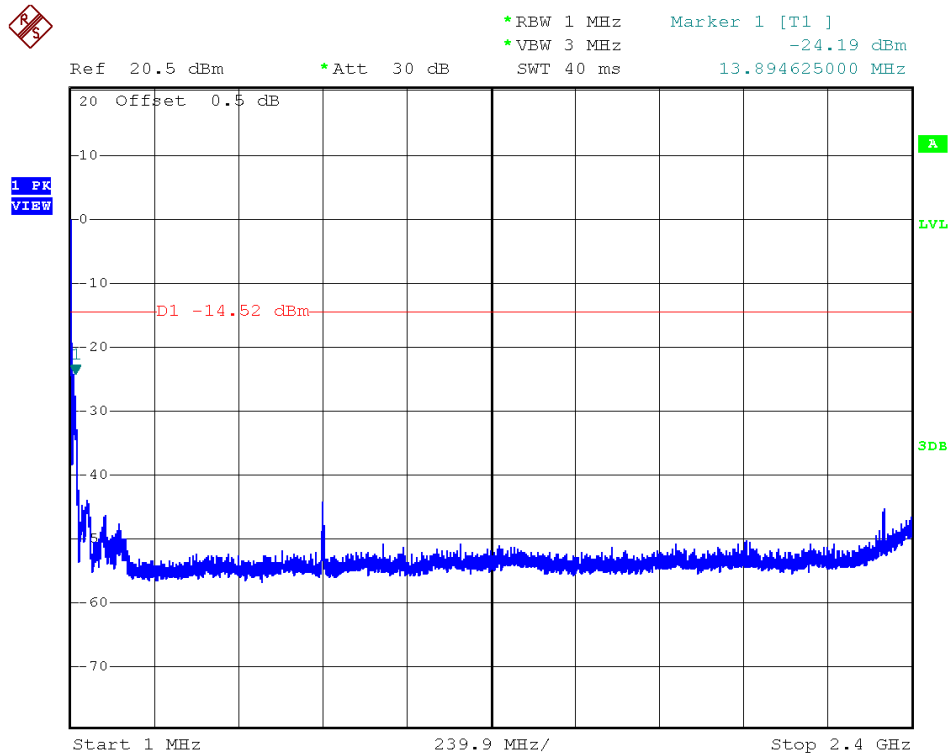
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



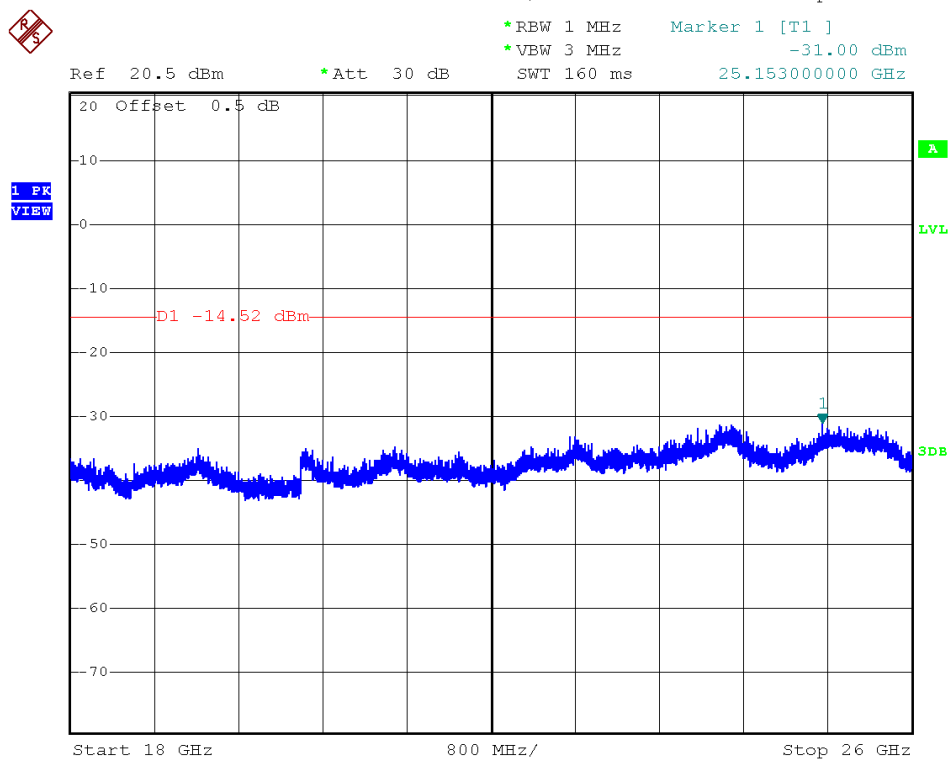
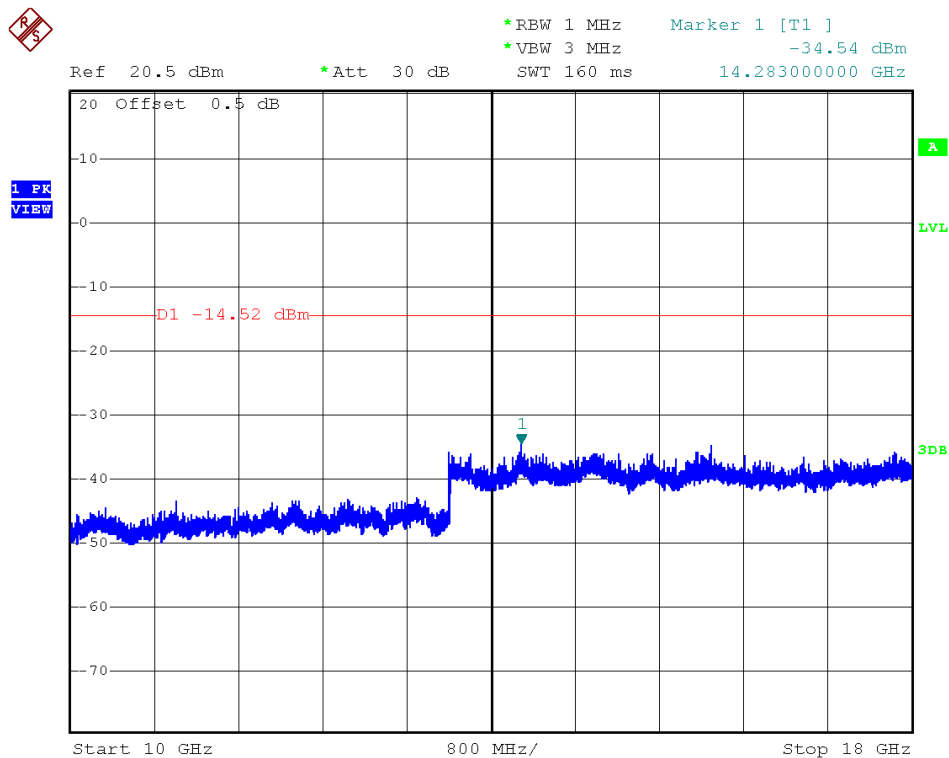
## INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 5.48dBm



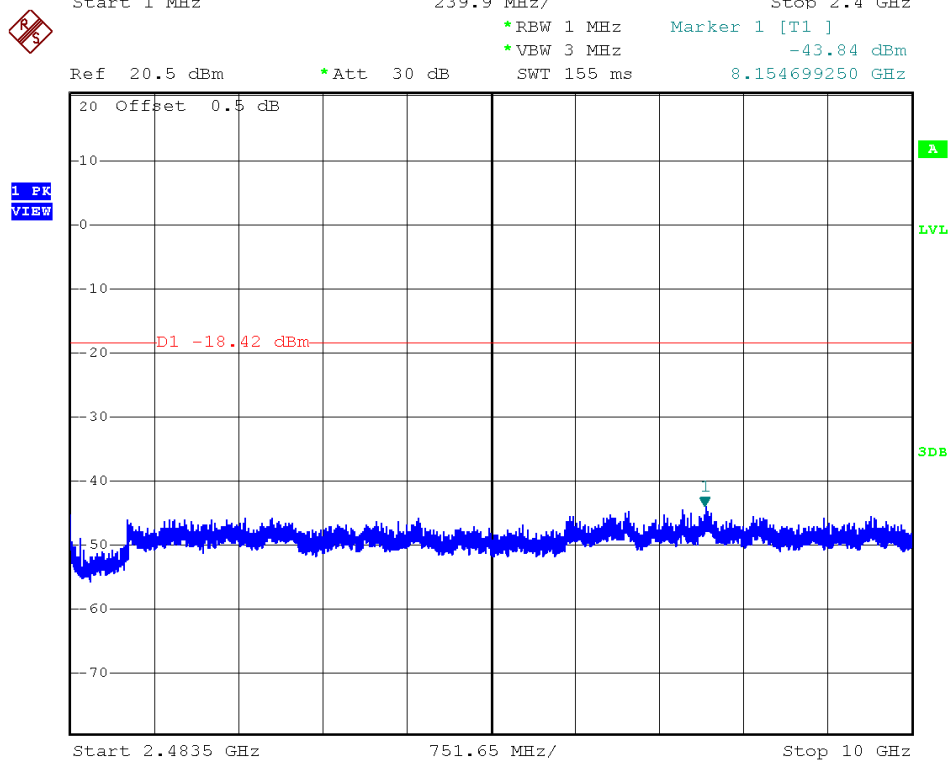
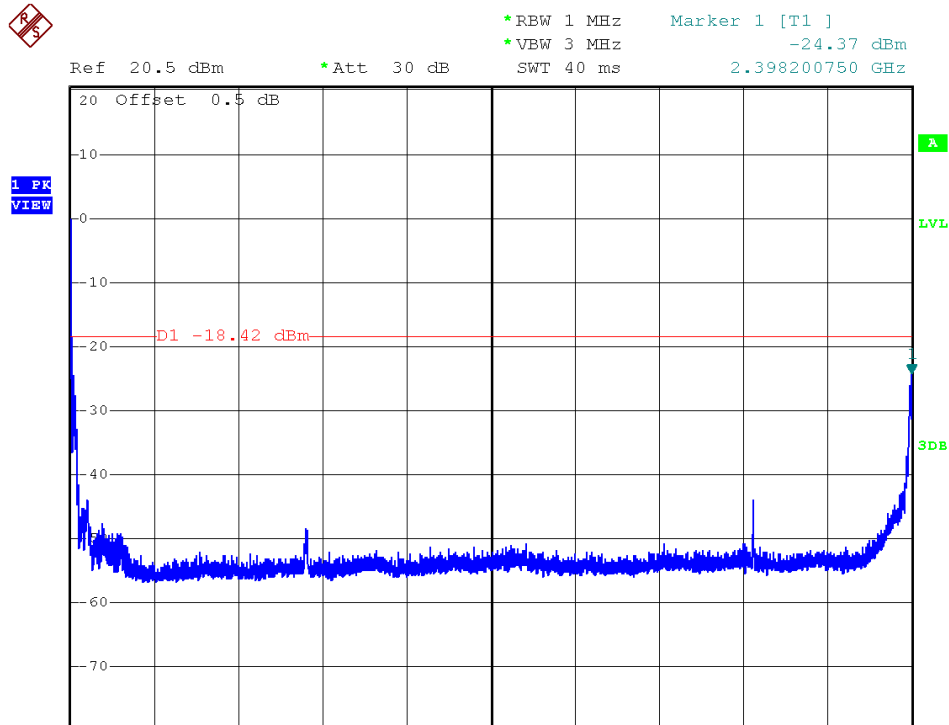
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



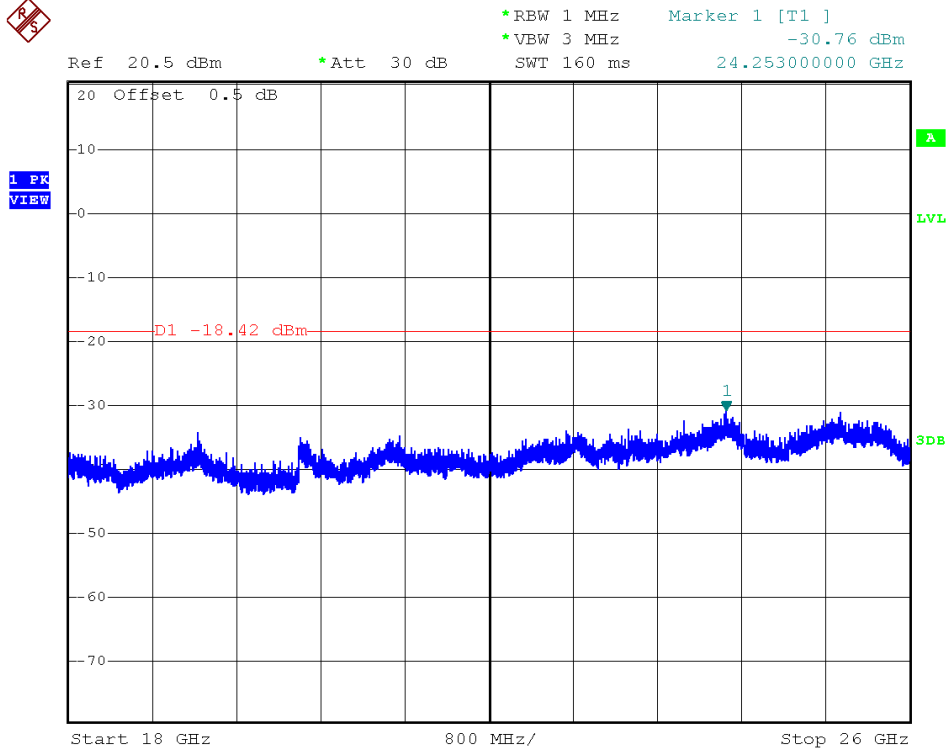
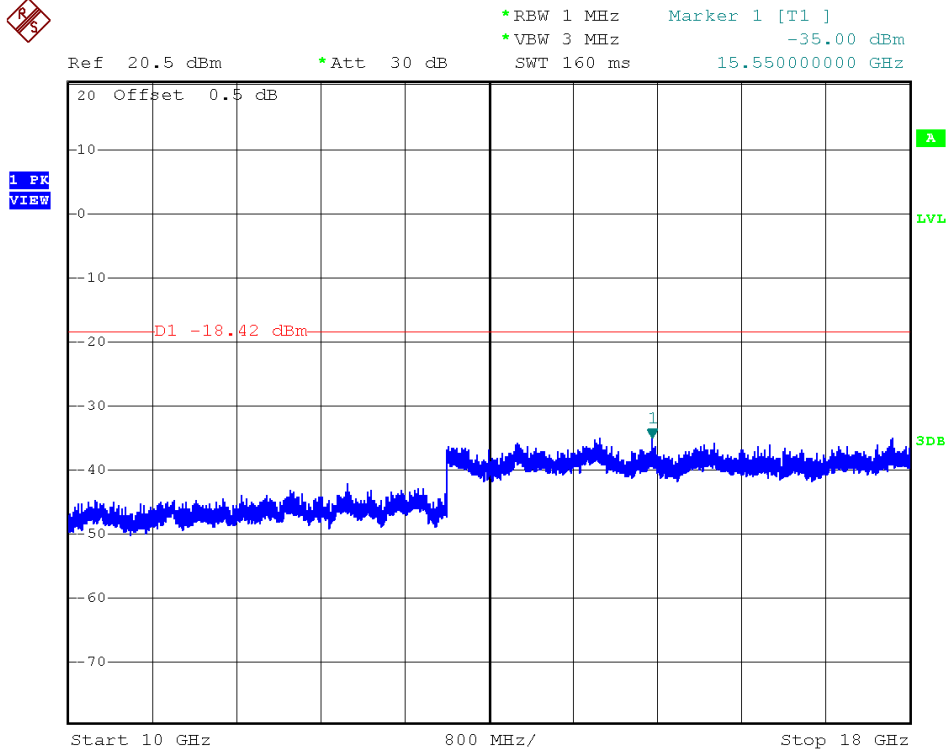
# INTERTEK TESTING SERVICES

802.11g  
Channel 1 (2412MHz) Reference Level: 1.58dBm



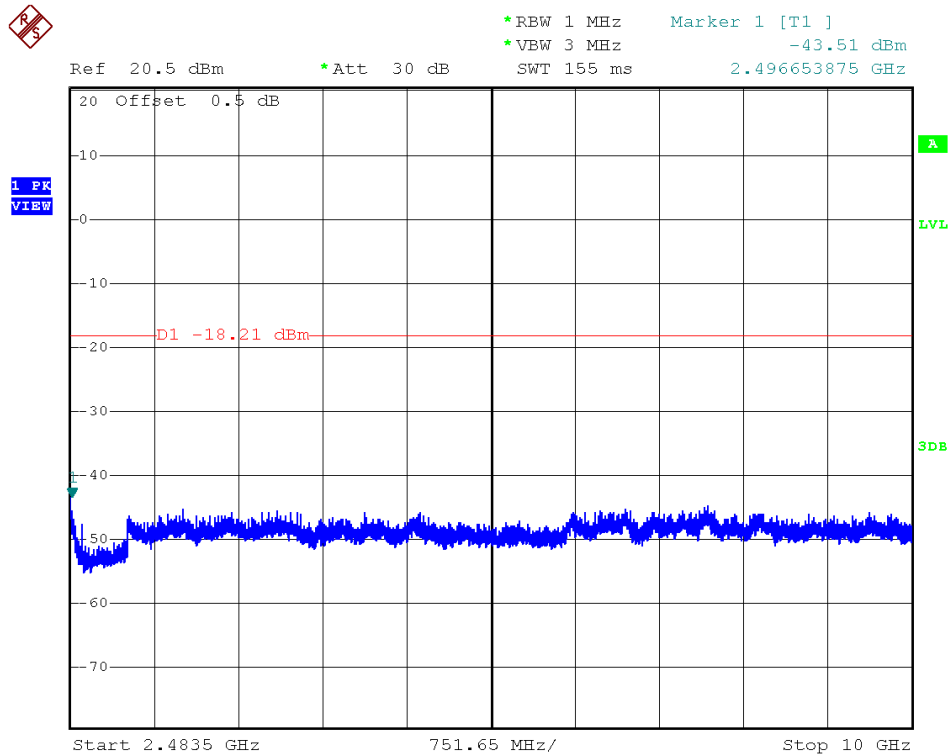
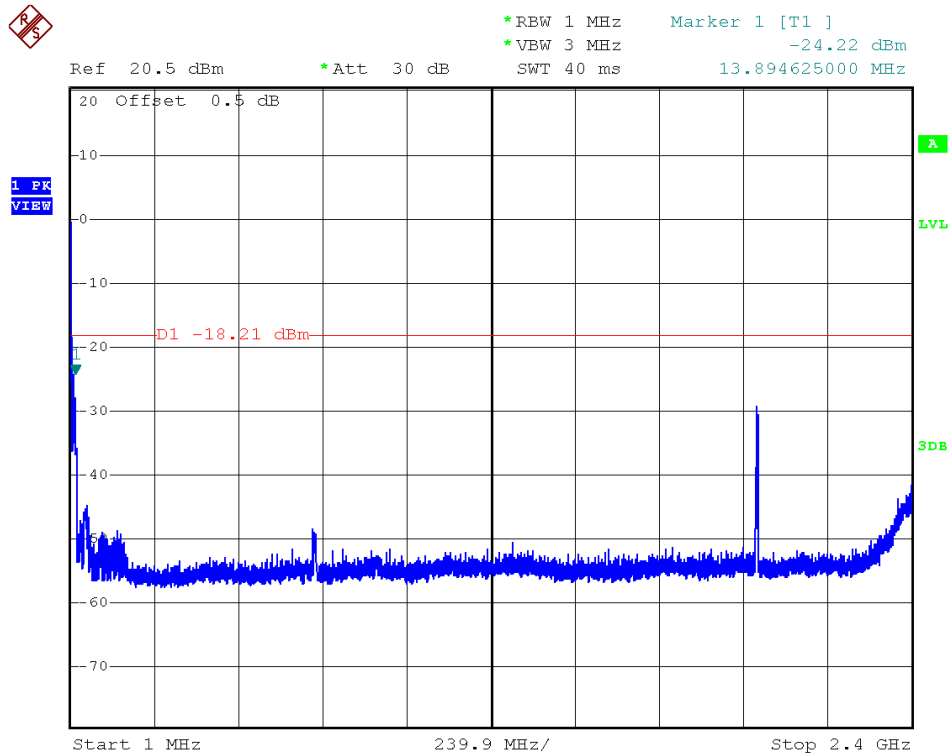
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



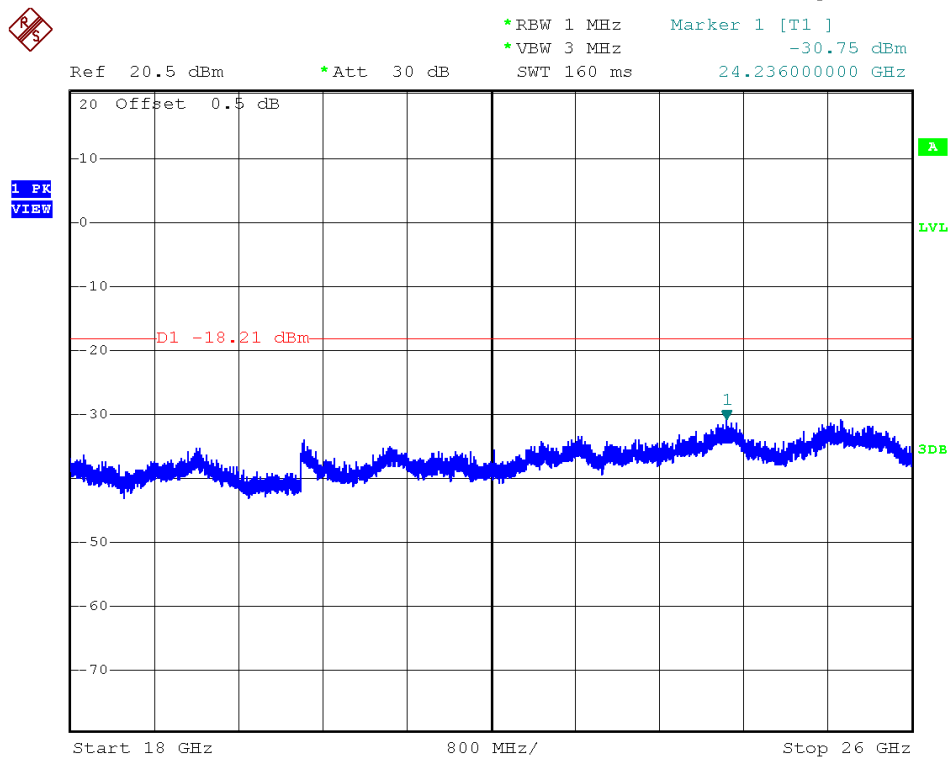
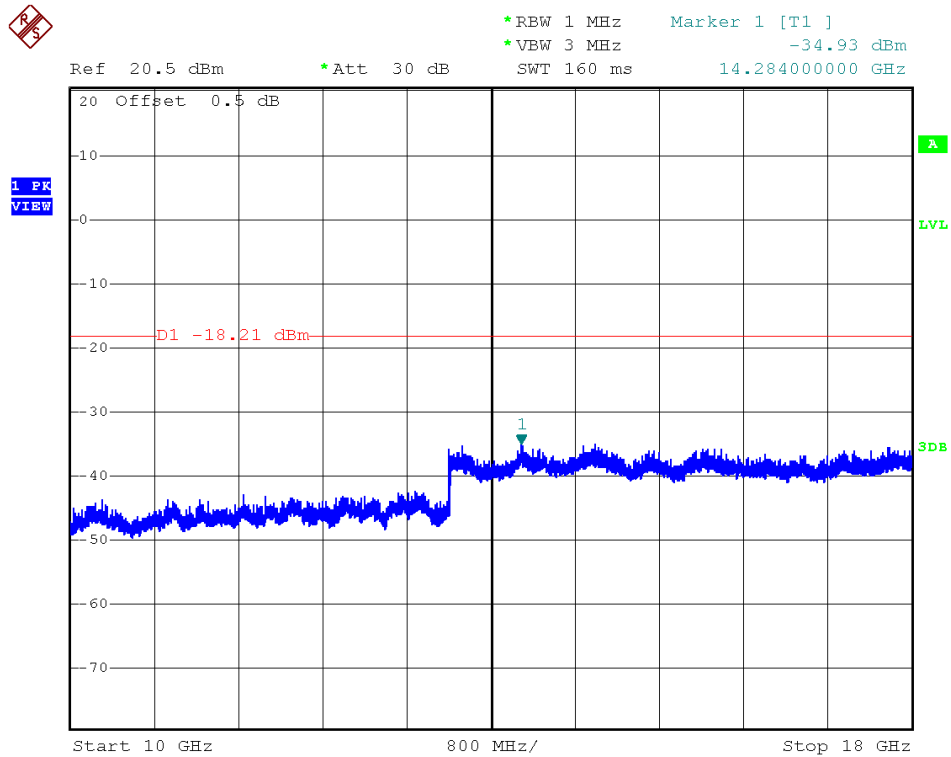
## INTERTEK TESTING SERVICES

Channel 6 (2437MHz) Reference Level: 1.79dBm



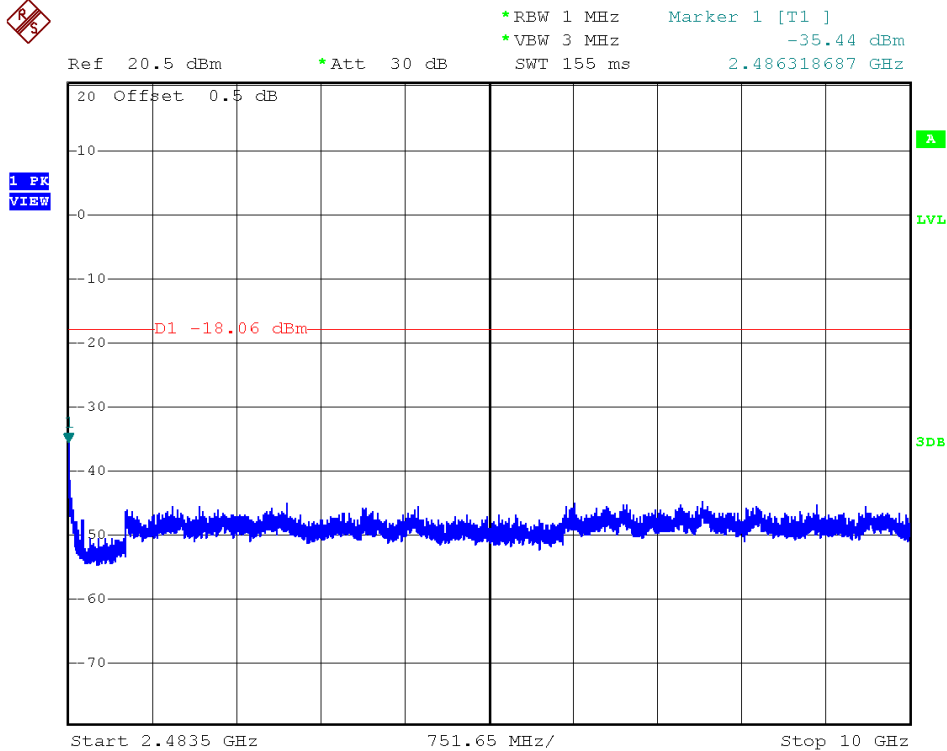
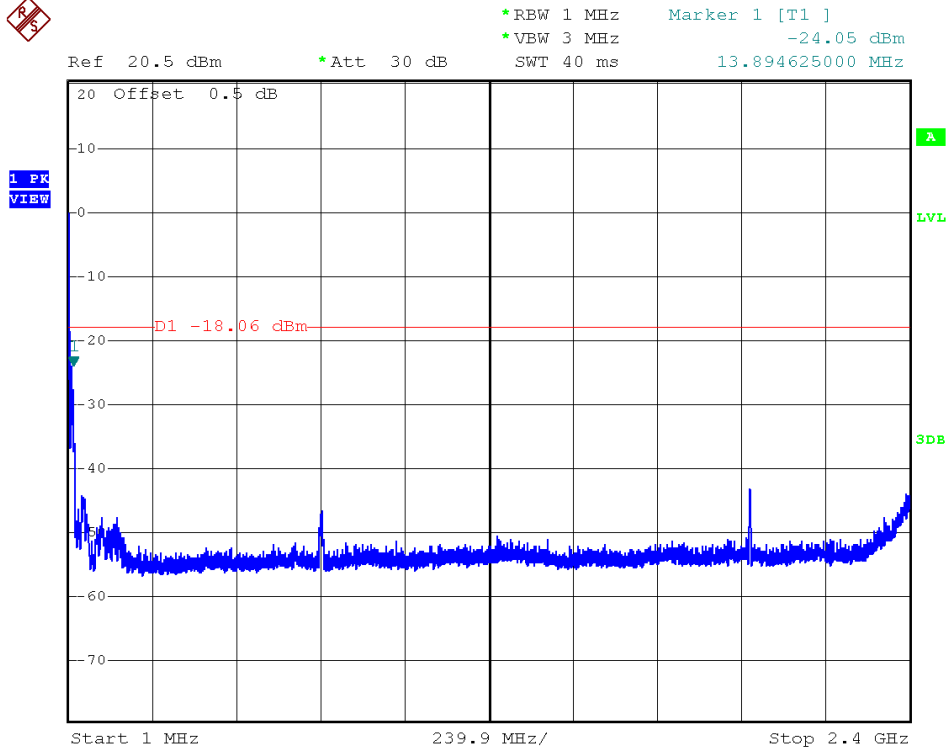
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



## INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 1.94dBm

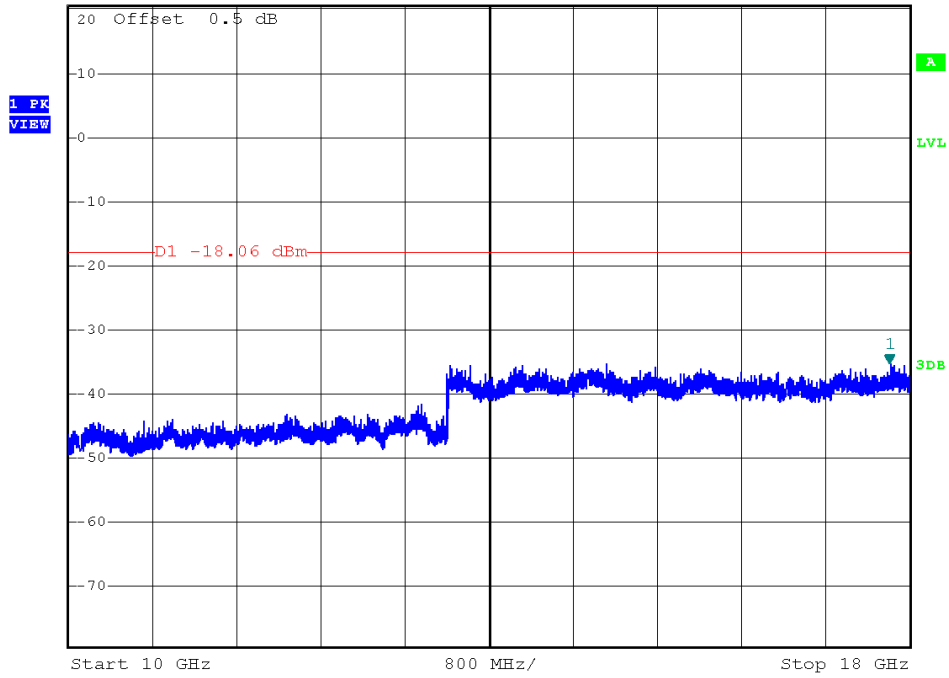


TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

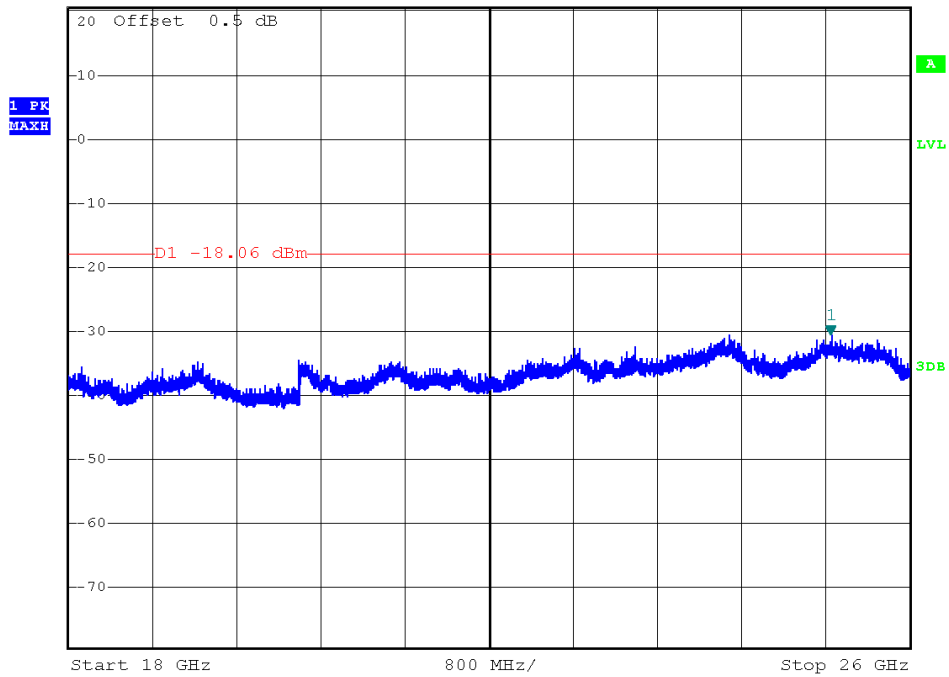
# INTERTEK TESTING SERVICES



Ref 20.5 dBm \*Att 30 dB SWT 160 ms  
 \*RBW 1 MHz Marker 1 [T1 ]  
 \*VBW 3 MHz -35.31 dBm  
 17.815000000 GHz



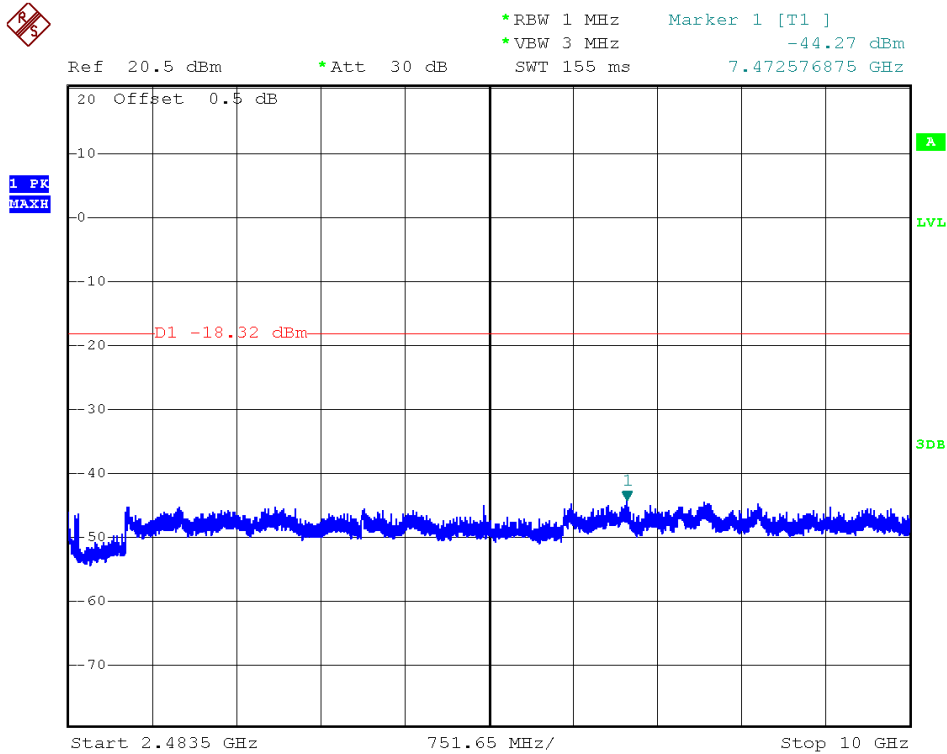
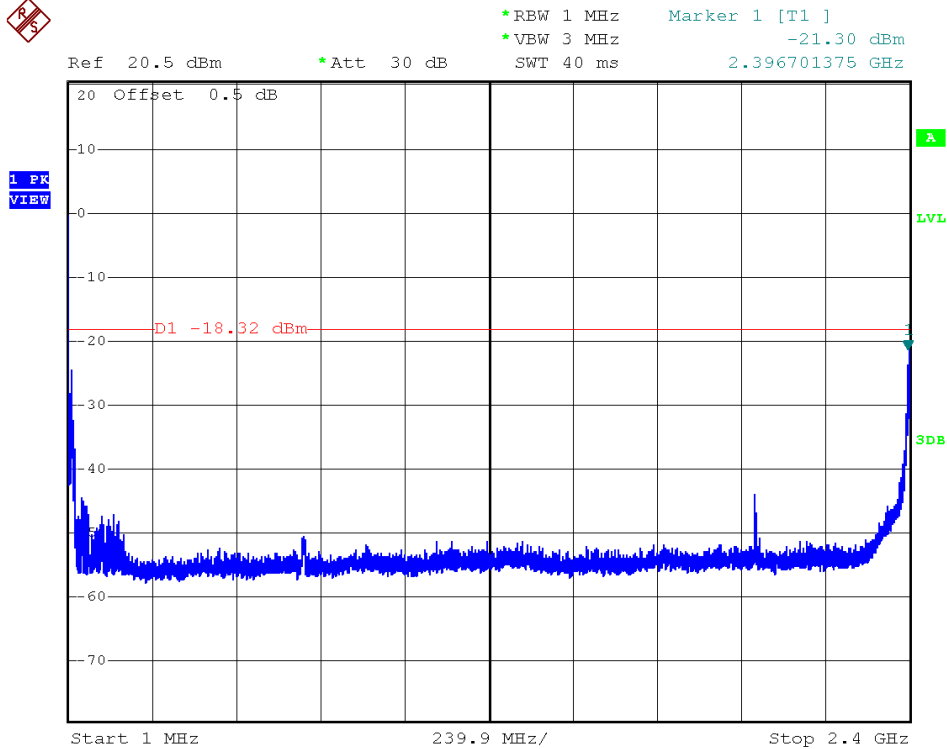
Ref 20.5 dBm \*Att 30 dB SWT 160 ms  
 \*RBW 1 MHz Marker 1 [T1 ]  
 \*VBW 3 MHz -30.54 dBm  
 25.250000000 GHz



## INTERTEK TESTING SERVICES

802.11n (HT-20)

Channel 1 (2412MHz) Reference Level: 1.68dBm

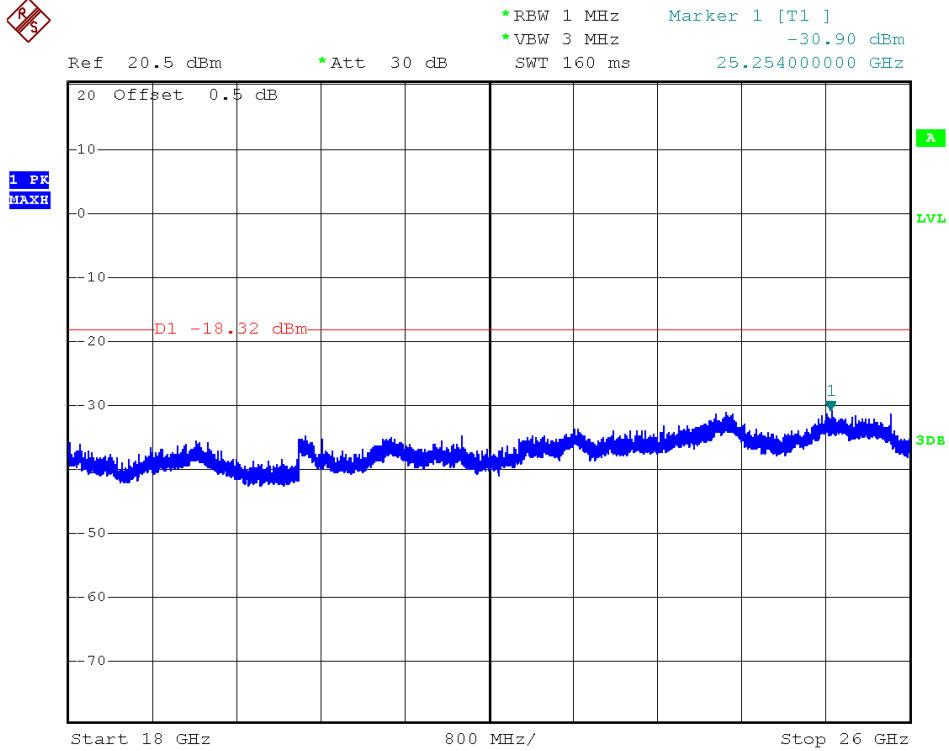
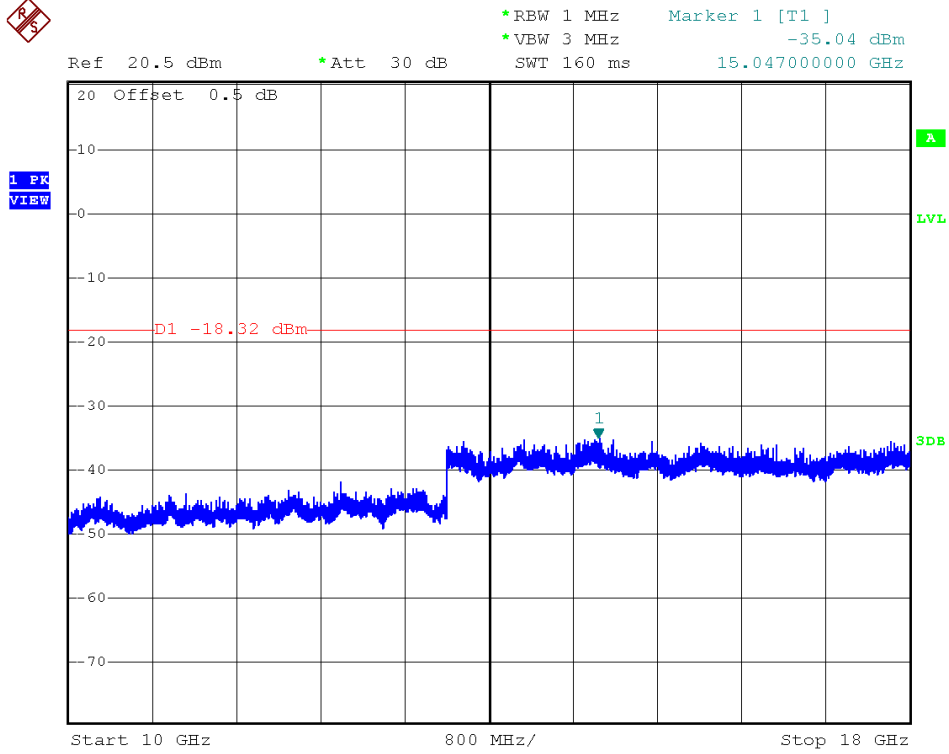


TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES

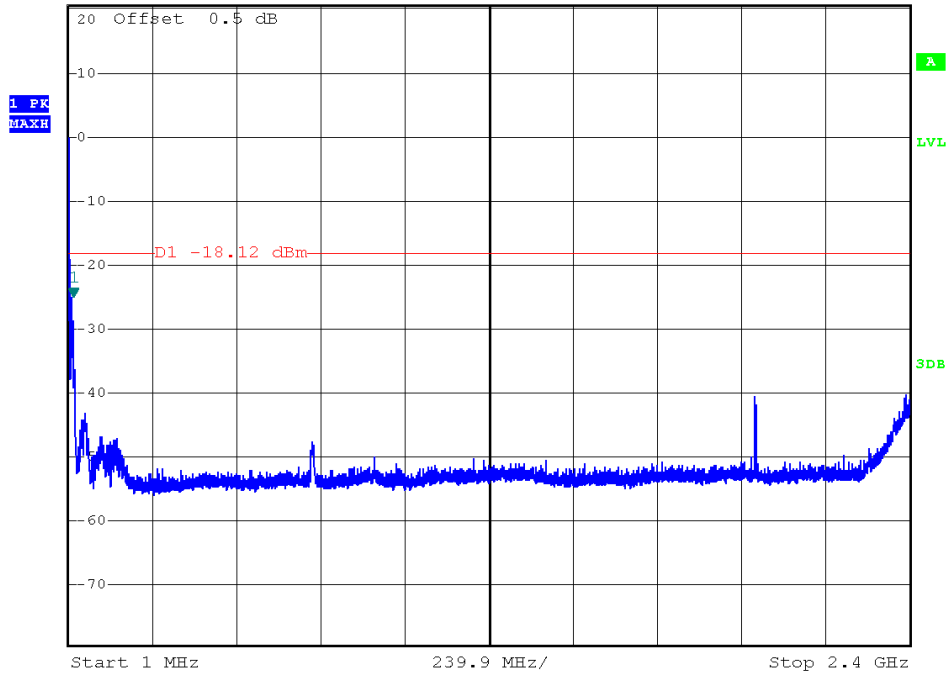


# INTERTEK TESTING SERVICES

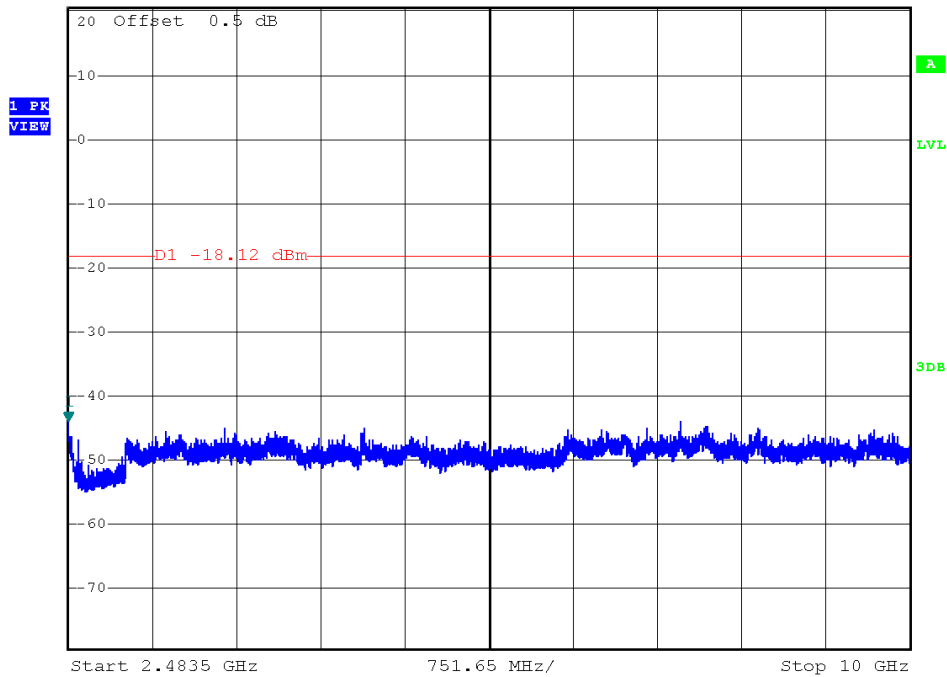
Channel 6 (2437MHz) Reference Level: 1.88dBm



Ref 20.5 dBm \*Att 30 dB SWT 40 ms Marker 1 [T1 ]  
 \*REW 1 MHz -25.04 dBm  
 \*VBW 3 MHz 13.894625000 MHz

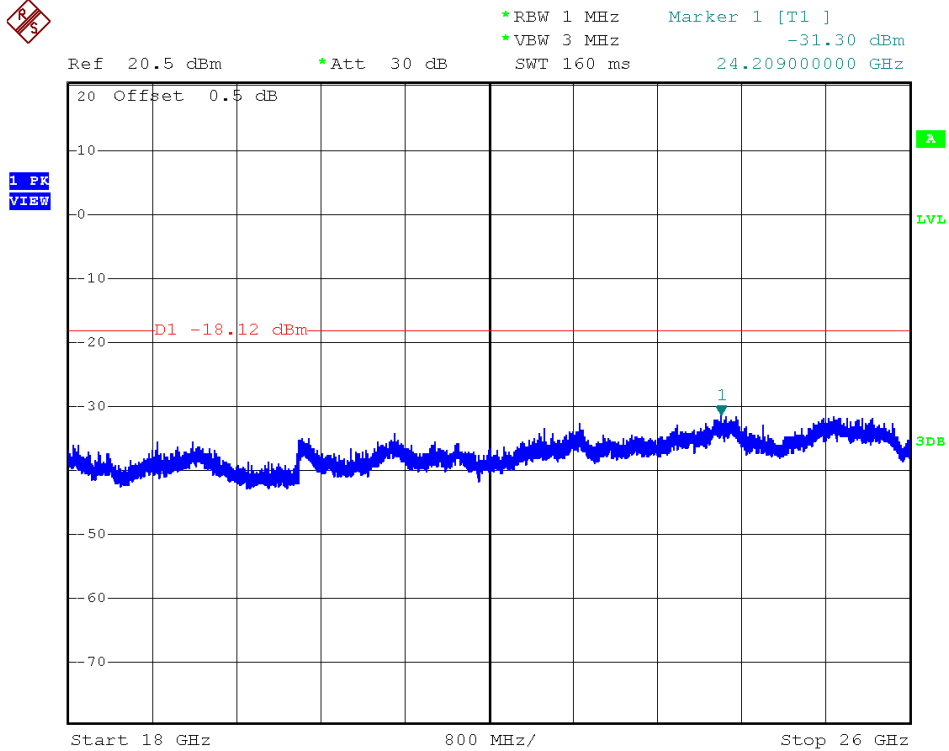
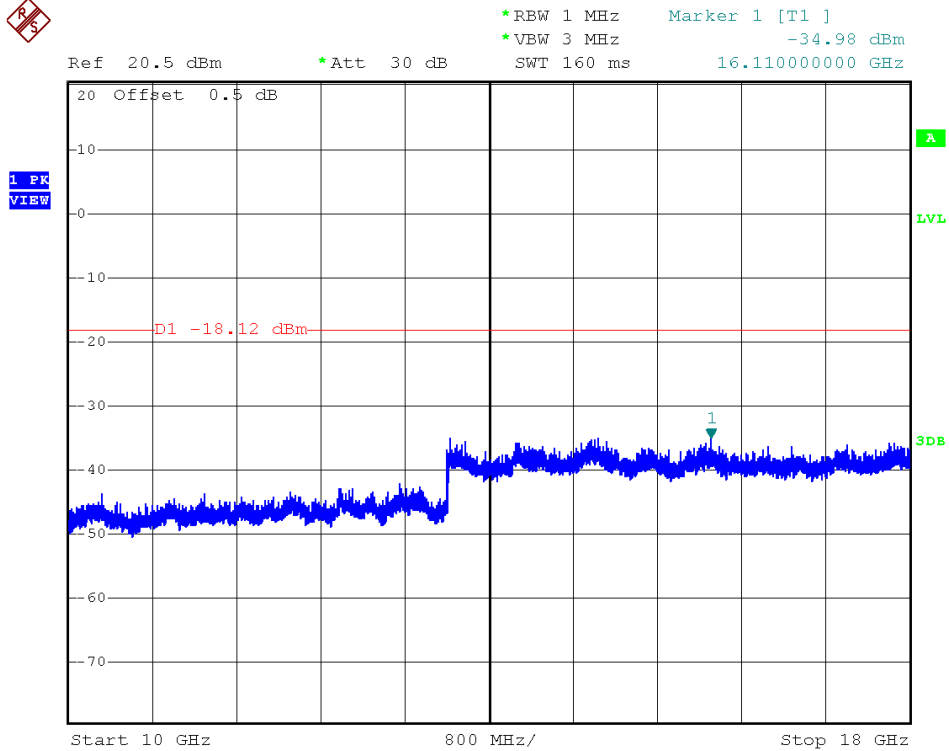


Ref 20.5 dBm \*Att 30 dB SWT 155 ms Marker 1 [T1 ]  
 \*REW 1 MHz -43.81 dBm  
 \*VBW 3 MHz 2.487258250 GHz



TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

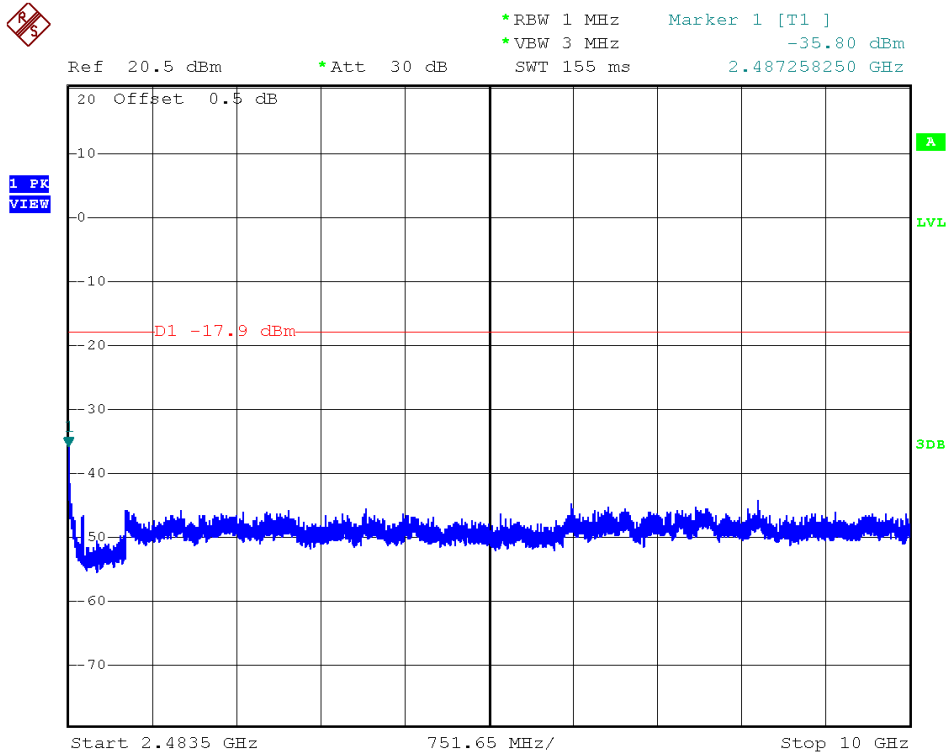
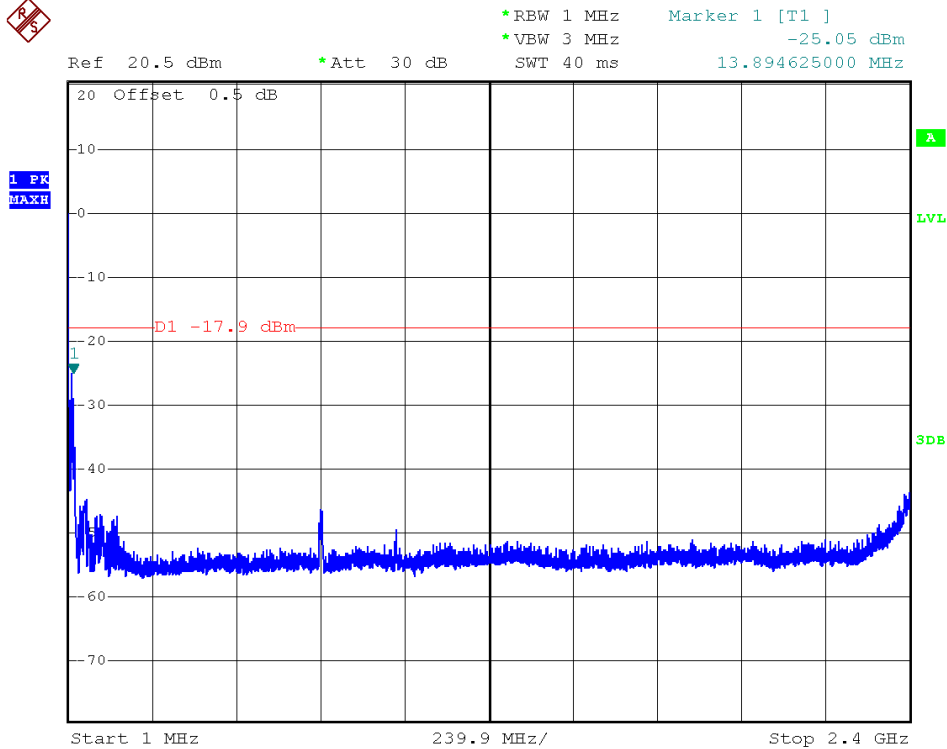
# INTERTEK TESTING SERVICES



TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

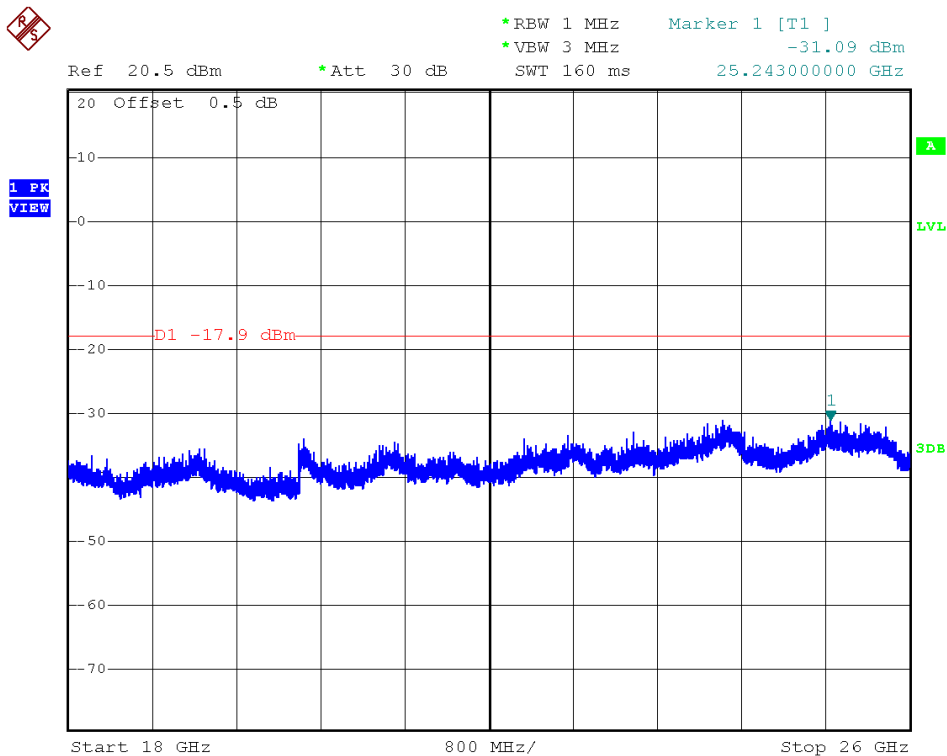
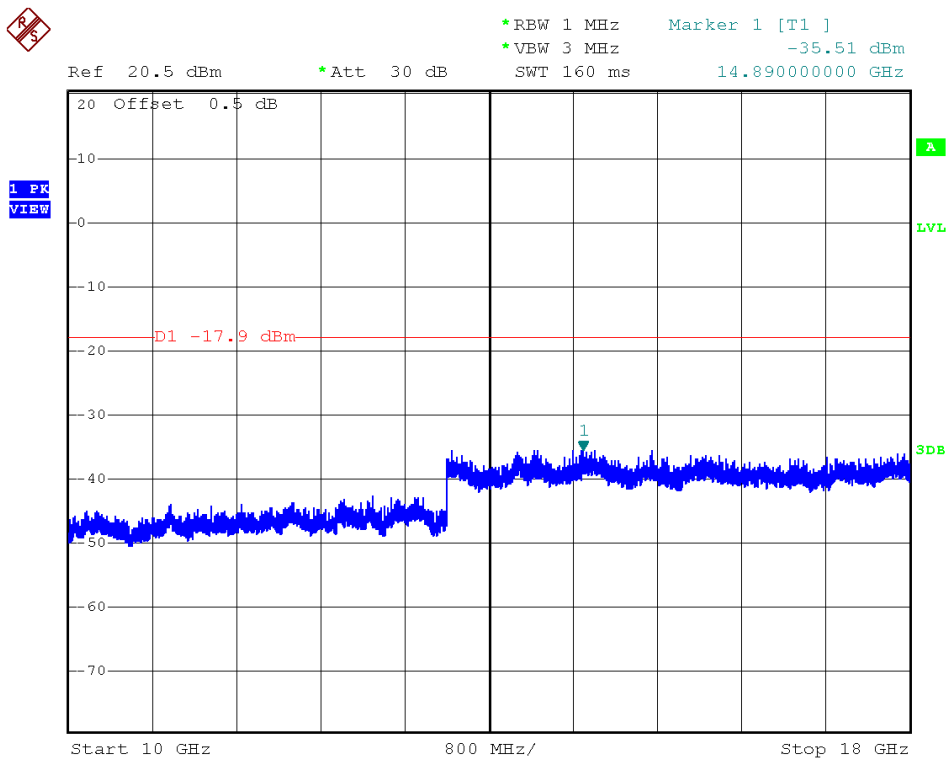
# INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 2.10dBm



TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES

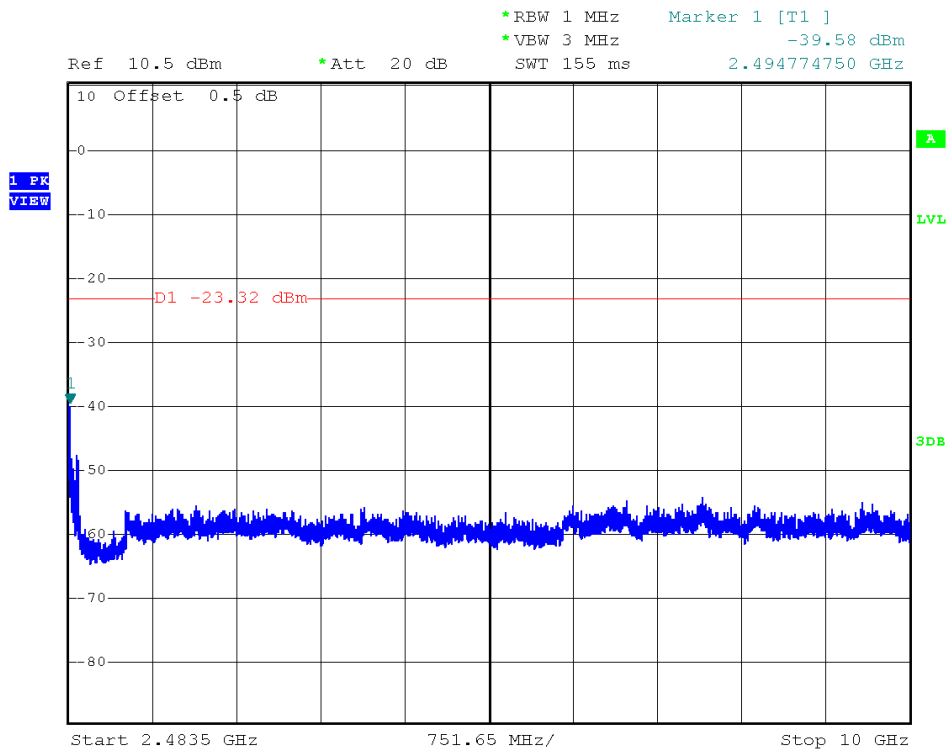
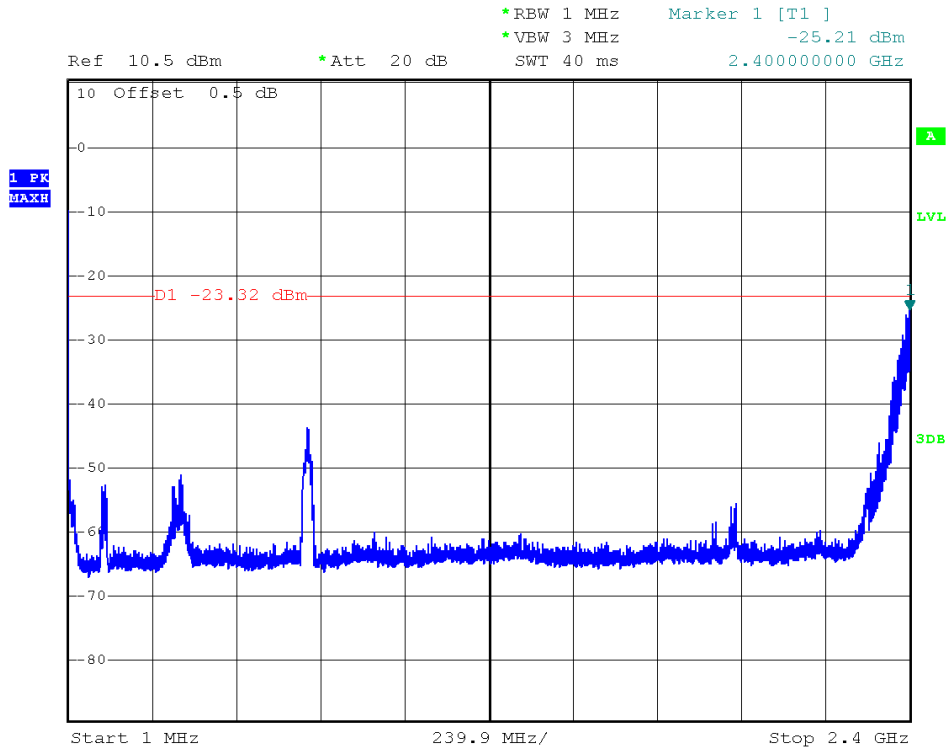


TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY600-U351  
 Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES

802.11n (HT-40)

Channel 3 (2422MHz) Reference Level: -3.32dBm

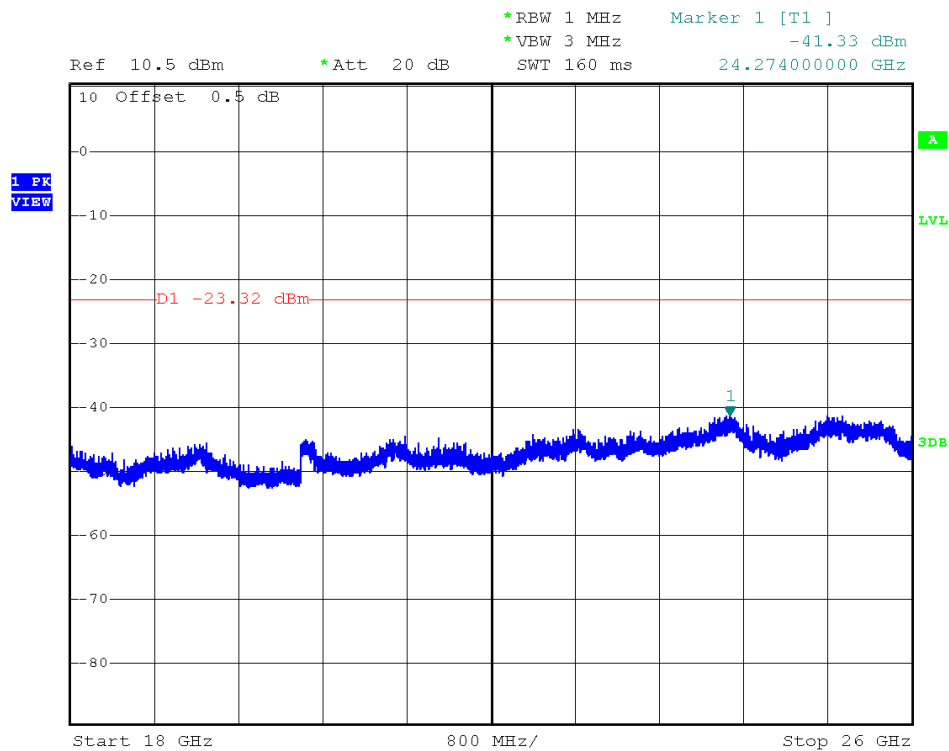
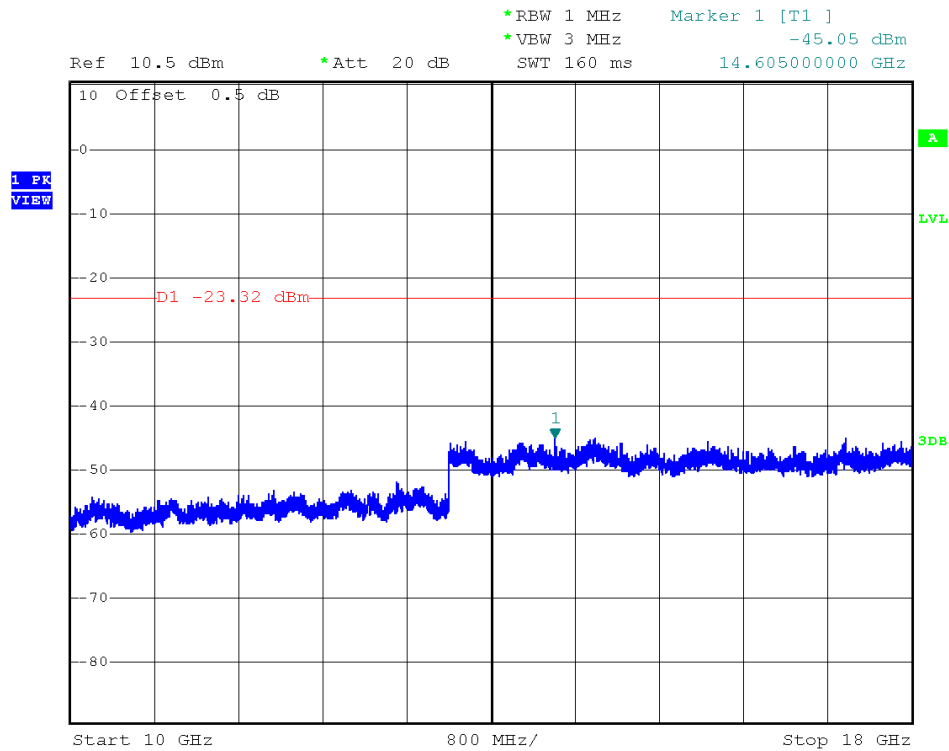


TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

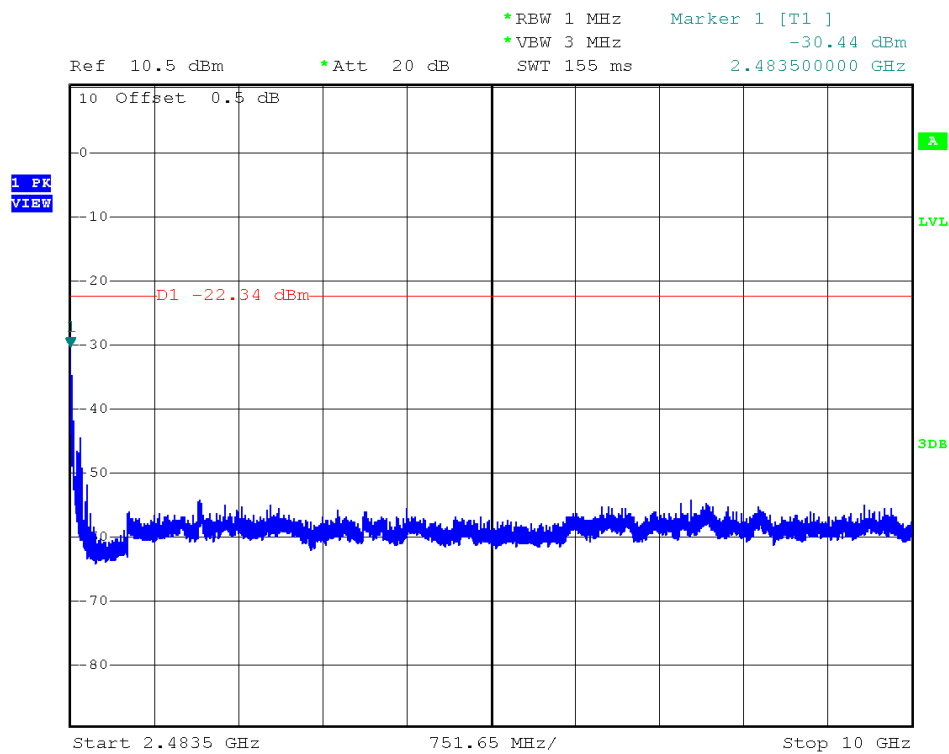
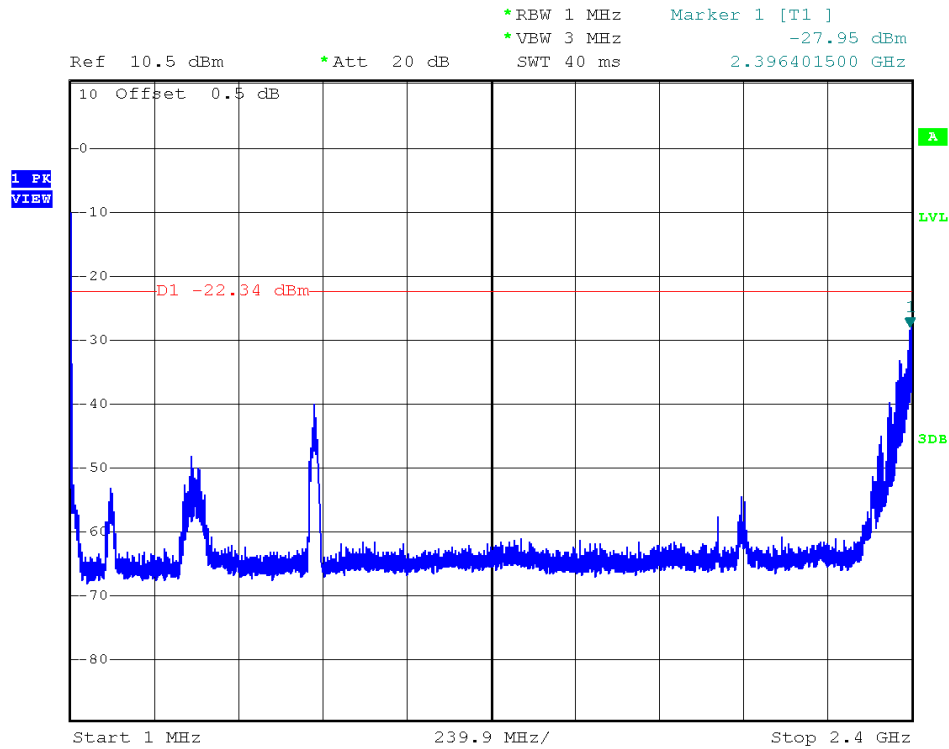
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



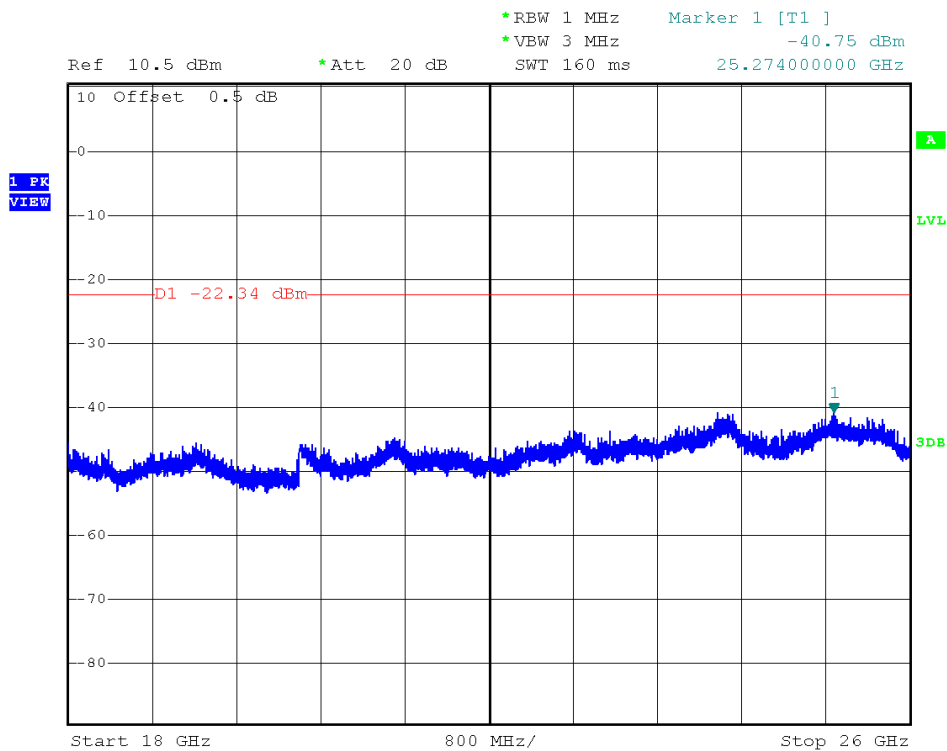
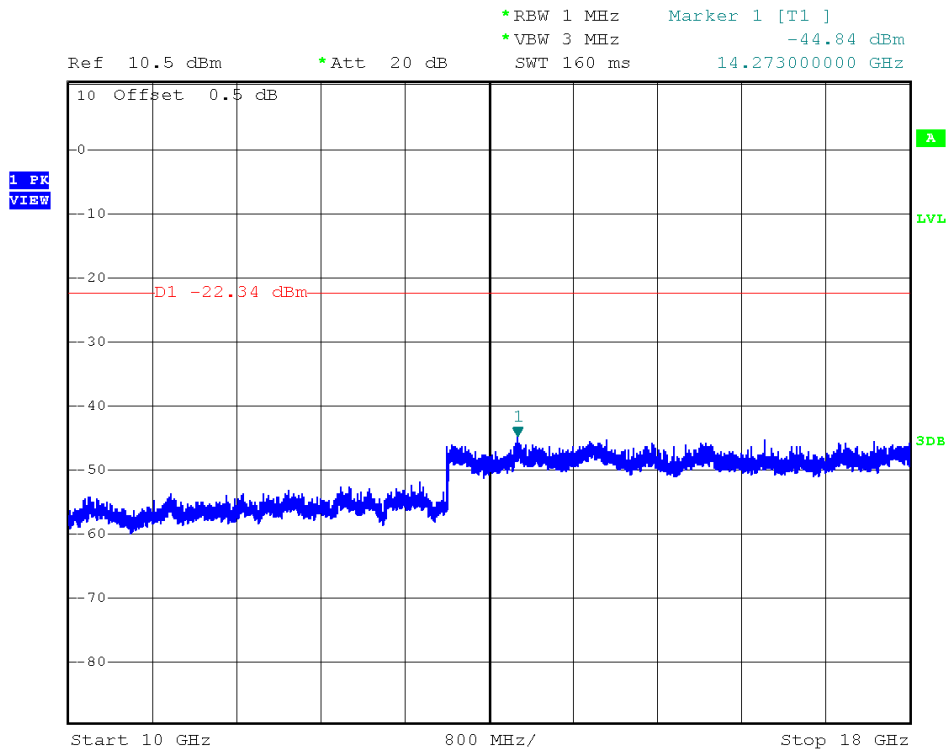
## INTERTEK TESTING SERVICES

Channel 6 (2437MHz) Reference Level: -2.34dBm



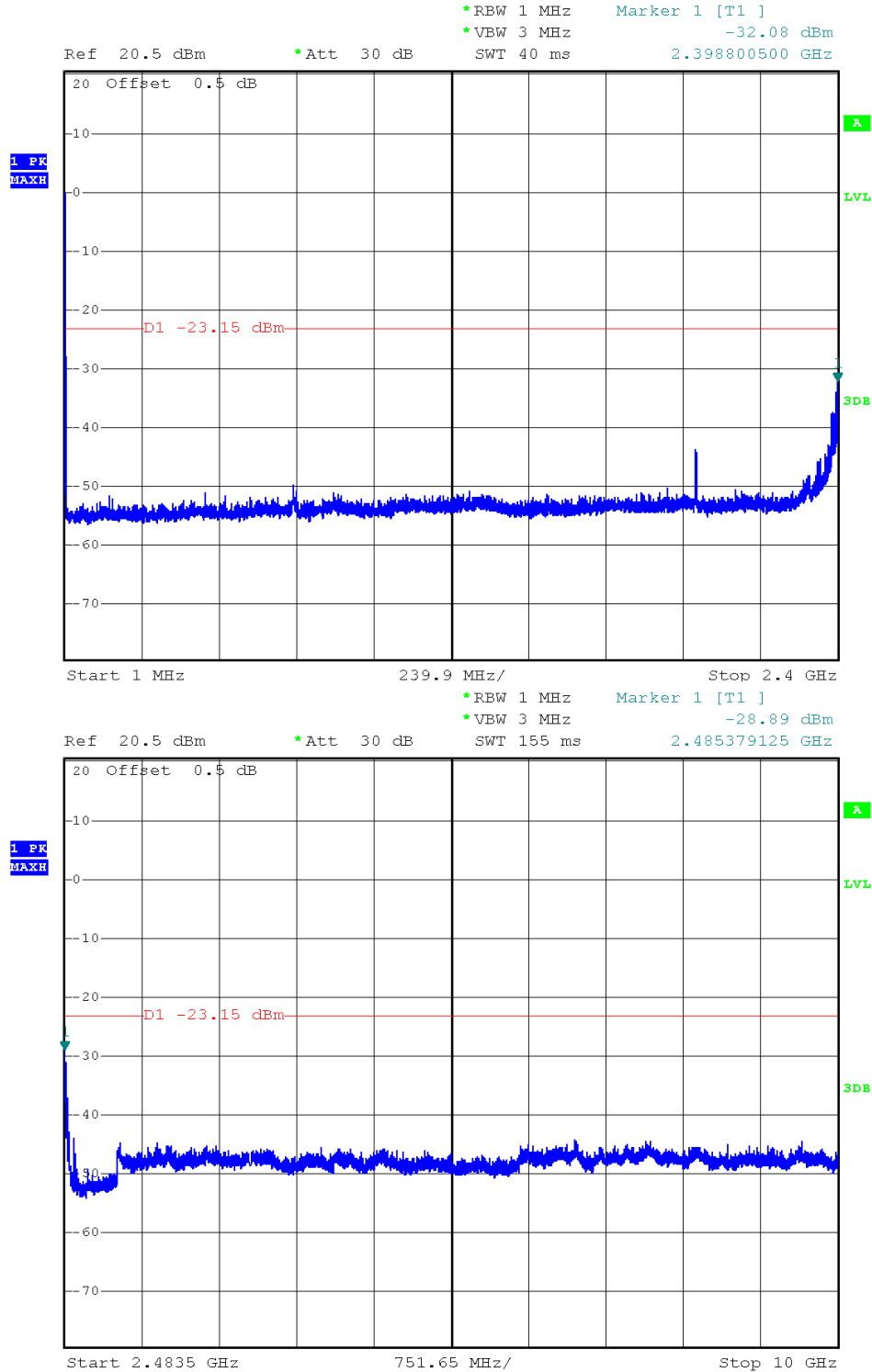
TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

# INTERTEK TESTING SERVICES



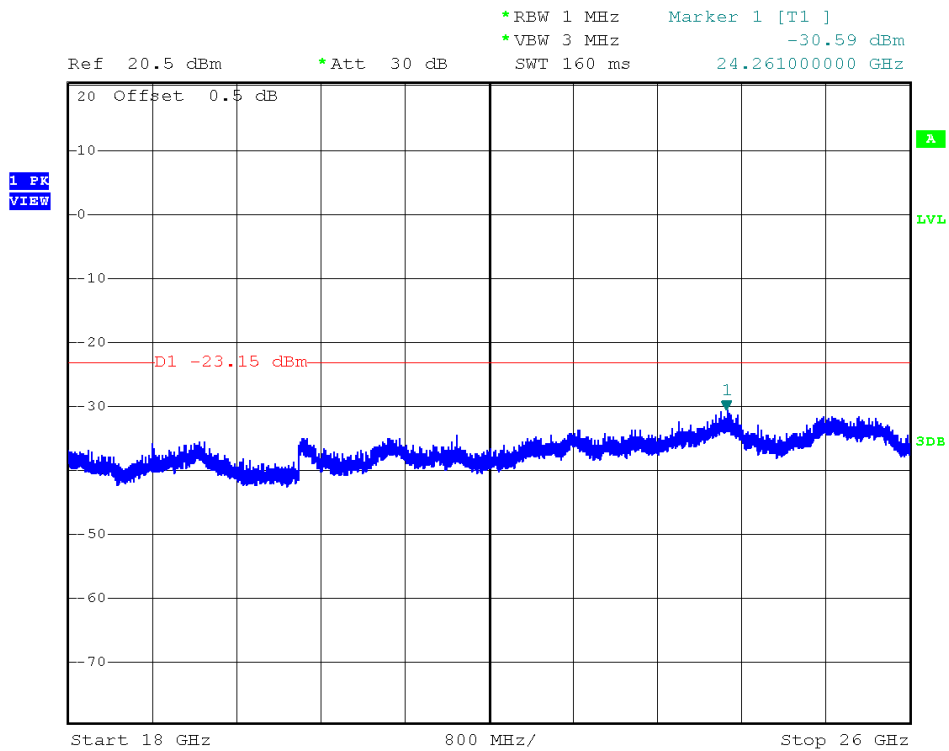
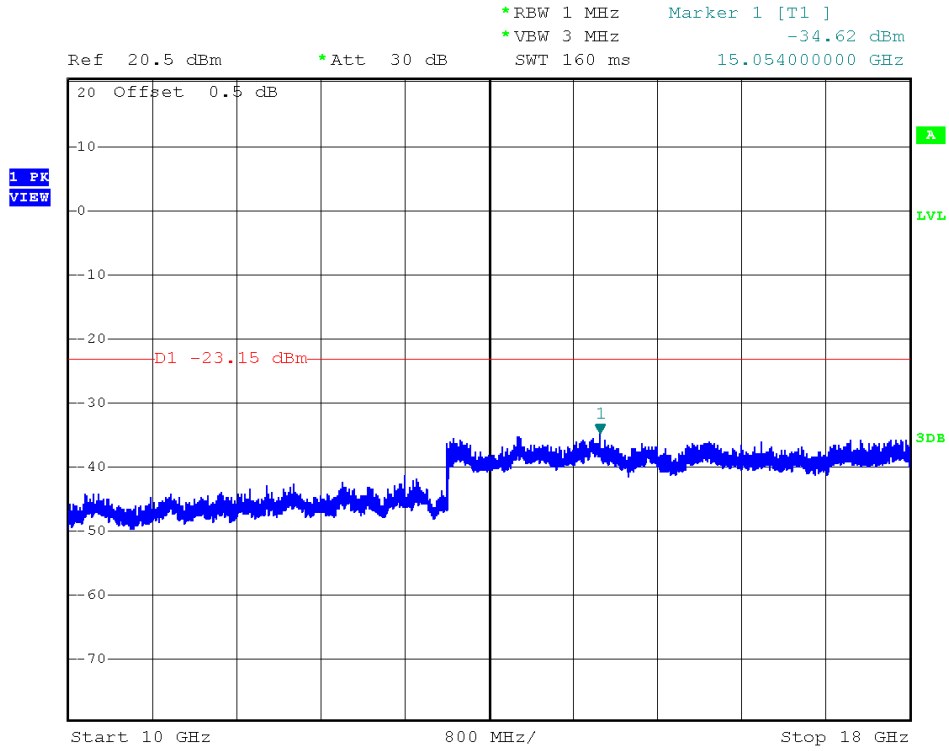
## INTERTEK TESTING SERVICES

Channel 9 (2452MHz) Reference Level: -3.15dBm



TRF no.: FCC 15C\_TX\_b  
FCC ID: QISY600-U351  
Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES



## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

☒ Not required, since all emissions are more than 20dB below fundamental

☐ See attached data sheet

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b), (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where      FS = Field Strength in dB $\mu$ V/m  
              RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V  
              CF = Cable Attenuation Factor in dB  
              AF = Antenna Factor in dB  
              AG = Amplifier Gain in dB  
              PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

#### Example

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ PD &= 0 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m} \end{aligned}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission (802.11g channel 11) at 2483.520MHz is passed by 1.7 dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

Worst Case Operating Mode: 802.11n-HT20 (TX-Channel 11)

Adapter: HuntKey

### Radiated Emissions

| Polarization | Frequency<br>(MHz) | Reading<br>(dBμV) | Pre-<br>Amp<br>Gain<br>(dB) | Antenna<br>Factor<br>(dB) | Net<br>at 3m<br>(dBμV/m) | Limit<br>at 3m<br>(dBμV/m) | Margin<br>(dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|--------------------------|----------------------------|----------------|
|              |                    |                   |                             |                           |                          |                            |                |
| Horizontal   | 101.060            | 41.1              | 20.0                        | 9.1                       | 30.2                     | 43.5                       | -13.3          |
| Horizontal   | 162.250            | 36.7              | 20.0                        | 8.3                       | 25.0                     | 43.5                       | -18.5          |
| Horizontal   | 280.360            | 32.1              | 20.0                        | 12.7                      | 24.8                     | 46.0                       | -21.2          |
| Vertical     | 55.320             | 41.4              | 20.0                        | 8.4                       | 29.8                     | 40.0                       | -10.2          |
| Vertical     | 100.470            | 37.7              | 20.0                        | 9.0                       | 26.7                     | 43.5                       | -16.8          |
| Vertical     | 160.440            | 35.2              | 20.0                        | 8.3                       | 23.5                     | 43.5                       | -20.0          |

NOTES: 1. Quasi-Peak detector is used except for others stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

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## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11b (TX-Channel 01)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4824.000       | 52.1           | 36.1              | 34.1                | 50.1               | 74.0                      | -23.9       |
| Horizontal   | *2389.900       | 64.8           | 36.7              | 27.2                | 55.3               | 74.0                      | -18.7       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4824.000       | 39.8           | 36.1              | 34.1                | 37.8               | 54.0                         | -16.2       |
| Horizontal   | *2389.920       | 58.9           | 36.7              | 27.2                | 49.4               | 54.0                         | -4.6        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11b (TX-Channel 06)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB $\mu$ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB $\mu$ V/m) | Peak Limit at 3m (dB $\mu$ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal   | *4874.000       | 50.8                 | 36.1              | 34.5                | 49.2                     | 74.0                            | -24.8       |
| Horizontal   | *7311.000       | 57.5                 | 35.6              | 37.1                | 59.0                     | 74.0                            | -15.0       |

| Polarization | Frequency (MHz) | Reading (dB $\mu$ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB $\mu$ V/m) | Average Limit at 3m (dB $\mu$ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal   | *4874.000       | 41.1                 | 36.1              | 34.5                | 39.5                     | 54.0                               | -14.5       |
| Horizontal   | *7311.000       | 48.9                 | 35.6              | 37.1                | 50.4                     | 54.0                               | -3.6        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

Mode: 802.11b (TX-Channel 11)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB $\mu$ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB $\mu$ V/m) | Peak Limit at 3m (dB $\mu$ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal   | *4924.000       | 51.2                 | 36.1              | 34.7                | 49.8                     | 74.0                            | -24.2       |
| Horizontal   | *2483.550       | 61.3                 | 36.7              | 27.7                | 52.3                     | 74.0                            | -21.7       |

| Polarization | Frequency (MHz) | Reading (dB $\mu$ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB $\mu$ V/m) | Average Limit at 3m (dB $\mu$ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal   | *4924.000       | 40.5                 | 36.1              | 34.7                | 39.1                     | 54.0                               | -14.9       |
| Horizontal   | *2483.550       | 55.5                 | 36.7              | 27.7                | 46.5                     | 54.0                               | -7.5        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11g (TX-Channel 01)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4824.000       | 51.9           | 36.1              | 34.1                | 49.9               | 74.0                      | -24.1       |
| Horizontal   | *2389.980       | 72.3           | 36.7              | 27.2                | 62.8               | 74.0                      | -11.2       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4824.000       | 36.5           | 36.1              | 34.1                | 34.5               | 54.0                         | -19.5       |
| Horizontal   | *2389.980       | 58.1           | 36.7              | 27.2                | 48.6               | 54.0                         | -5.4        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11g (TX-Channel 06)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4874.000       | 50.2           | 36.1              | 34.5                | 48.6               | 74.0                      | -25.4       |
| Horizontal   | *7311.000       | 53.3           | 35.6              | 37.1                | 54.8               | 74.0                      | -19.2       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4874.000       | 35.8           | 36.1              | 34.5                | 34.2               | 54.0                         | -19.8       |
| Horizontal   | *7311.000       | 37.7           | 35.6              | 37.1                | 39.2               | 54.0                         | -14.8       |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11g (TX-Channel 11)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4924.000       | 50.4           | 36.1              | 34.7                | 49.0               | 74.0                      | -25.0       |
| Horizontal   | *7386.000       | 52.4           | 35.6              | 37.2                | 54.0               | 74.0                      | -20.0       |
| Horizontal   | *2483.520       | 76.5           | 36.7              | 27.7                | 67.5               | 74.0                      | -6.5        |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4924.000       | 35.0           | 36.1              | 34.7                | 33.6               | 54.0                         | -20.4       |
| Horizontal   | *7386.000       | 36.9           | 35.6              | 37.2                | 38.5               | 54.0                         | -15.5       |
| Horizontal   | *2483.520       | 61.3           | 36.7              | 27.7                | 52.3               | 54.0                         | -1.7        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11n-20M (TX-Channel 01)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4824.000       | 51.1           | 36.1              | 34.1                | 49.1               | 74.0                      | -24.9       |
| Horizontal   | *2389.990       | 73.4           | 36.7              | 27.2                | 63.9               | 74.0                      | -10.1       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4824.000       | 36.4           | 36.1              | 34.1                | 34.4               | 54.0                         | -19.6       |
| Horizontal   | *2389.990       | 59.0           | 36.7              | 27.2                | 49.5               | 54.0                         | -4.5        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11n-20M (TX-Channel 06)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4874.000       | 50.4           | 36.1              | 34.5                | 48.8               | 74.0                      | -25.2       |
| Horizontal   | *7311.000       | 51.6           | 35.6              | 37.1                | 53.1               | 74.0                      | -20.9       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4874.000       | 35.8           | 36.1              | 34.5                | 34.2               | 54.0                         | -19.8       |
| Horizontal   | *7311.000       | 35.7           | 35.6              | 37.1                | 37.2               | 54.0                         | -16.8       |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11n-20M (TX-Channel 11)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4924.000       | 49.7           | 36.1              | 34.7                | 48.3               | 74.0                      | -25.7       |
| Horizontal   | *7386.000       | 51.8           | 35.6              | 37.2                | 53.4               | 74.0                      | -20.6       |
| Horizontal   | *2483.510       | 75.8           | 36.7              | 27.7                | 66.8               | 74.0                      | -7.2        |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4924.000       | 35.0           | 36.1              | 34.7                | 33.6               | 54.0                         | -20.4       |
| Horizontal   | *7386.000       | 36.9           | 35.6              | 37.2                | 38.5               | 54.0                         | -15.5       |
| Horizontal   | *2483.510       | 60.9           | 36.7              | 27.7                | 51.9               | 54.0                         | -2.1        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11n-40M (TX-Channel 03)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4844.000       | 50.5           | 36.1              | 34.6                | 49.0               | 74.0                      | -25.0       |
| Horizontal   | *2389.975       | 77.3           | 36.7              | 27.2                | 67.8               | 74.0                      | -6.2        |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4844.000       | 35.5           | 36.1              | 34.6                | 34.0               | 54.0                         | -20.0       |
| Horizontal   | *2389.975       | 61.1           | 36.7              | 27.2                | 51.6               | 54.0                         | -2.4        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

Mode: 802.11n-40M (TX-Channel 06)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4874.000       | 49.6           | 36.1              | 34.8                | 48.3               | 74.0                      | -25.7       |
| Horizontal   | *7311.000       | 50.7           | 35.6              | 37.3                | 52.4               | 74.0                      | -21.6       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4874.000       | 35.0           | 36.1              | 34.8                | 33.7               | 54.0                         | -20.3       |
| Horizontal   | *7311.000       | 36.0           | 35.6              | 37.3                | 37.7               | 54.0                         | -16.3       |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: March 14, 2014  
 Model: HUAWEI Y600-U351  
 Mode: 802.11n-40M (TX-Channel 9)

### Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|---------------------------|-------------|
| Horizontal   | *4904.000       | 49.7           | 36.1              | 34.8                | 48.4               | 74.0                      | -25.6       |
| Horizontal   | *7356.000       | 51.5           | 35.6              | 37.4                | 53.3               | 74.0                      | -20.7       |
| Horizontal   | *2483.510       | 71.5           | 36.7              | 27.7                | 62.5               | 74.0                      | -11.5       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|--------------------|------------------------------|-------------|
| Horizontal   | *4904.000       | 34.6           | 36.1              | 34.8                | 33.3               | 54.0                         | -20.7       |
| Horizontal   | *7356.000       | 36.4           | 35.6              | 37.4                | 38.2               | 54.0                         | -15.8       |
| Horizontal   | *2483.510       | 54.7           | 36.7              | 27.7                | 45.7               | 54.0                         | -8.3        |

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

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### 4.9 Conducted Emission

Worst Case Live-Conducted emission at 3.288MHz is Passed by 6.9 dB margin

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

## INTERTEK TESTING SERVICES

Company: Huawei Technologies Co.,Ltd

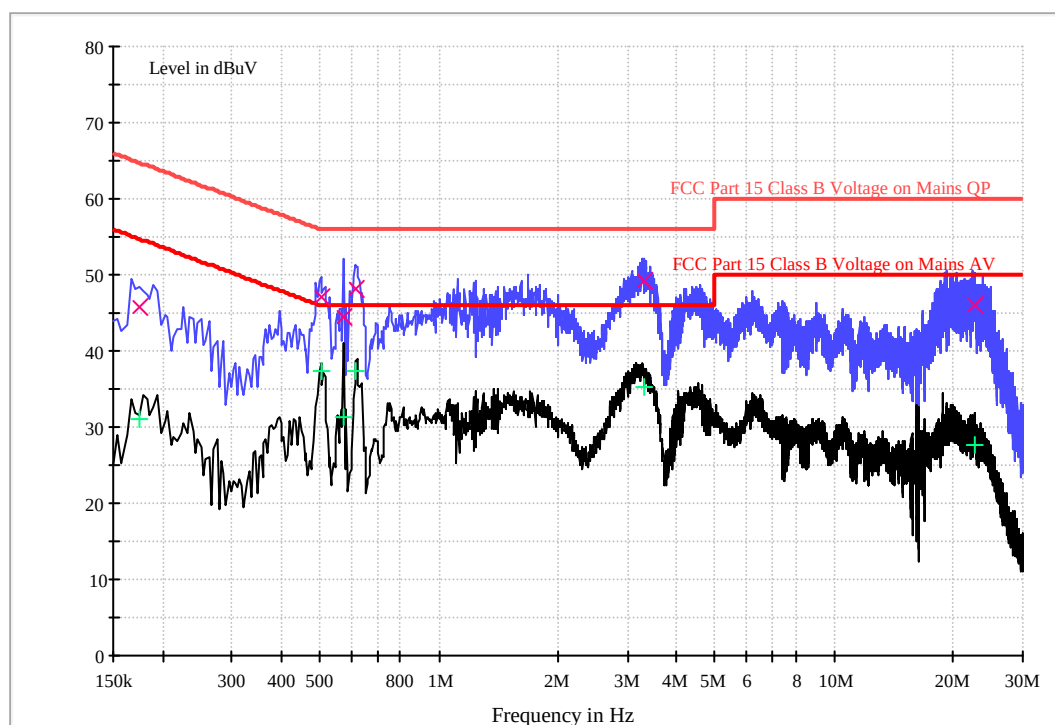
Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

Worst Case Operating Mode: 802.11n-HT20 (TX-Channel 11)

Adapter: HuntKey

### Conducted Emission Test - FCC



#### Result Table QP

| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|------------------------|------|------------|-------------|--------------------|
| 0.174           | 45.9                   | L1   | 9.7        | 18.9        | 64.8               |
| 0.502           | 47.2                   | L1   | 9.7        | 8.8         | 56.0               |
| 0.574           | 44.5                   | L1   | 9.7        | 11.5        | 56.0               |
| 0.618           | 48.1                   | L1   | 9.7        | 7.9         | 56.0               |
| 3.288           | 49.1                   | L1   | 9.8        | 6.9         | 56.0               |
| 22.562          | 46.0                   | L1   | 10.3       | 14.0        | 60.0               |

#### Result Table AV

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.174           | 31.1                 | L1   | 9.7        | 23.7        | 54.8               |
| 0.502           | 37.4                 | L1   | 9.7        | 8.6         | 46.0               |
| 0.574           | 31.3                 | L1   | 9.7        | 14.7        | 46.0               |
| 0.618           | 37.4                 | L1   | 9.7        | 8.6         | 46.0               |
| 3.288           | 35.4                 | L1   | 9.8        | 10.6        | 46.0               |
| 22.562          | 27.5                 | L1   | 10.3       | 22.5        | 50.0               |

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## INTERTEK TESTING SERVICES

Company: Huawei Technologies Co.,Ltd

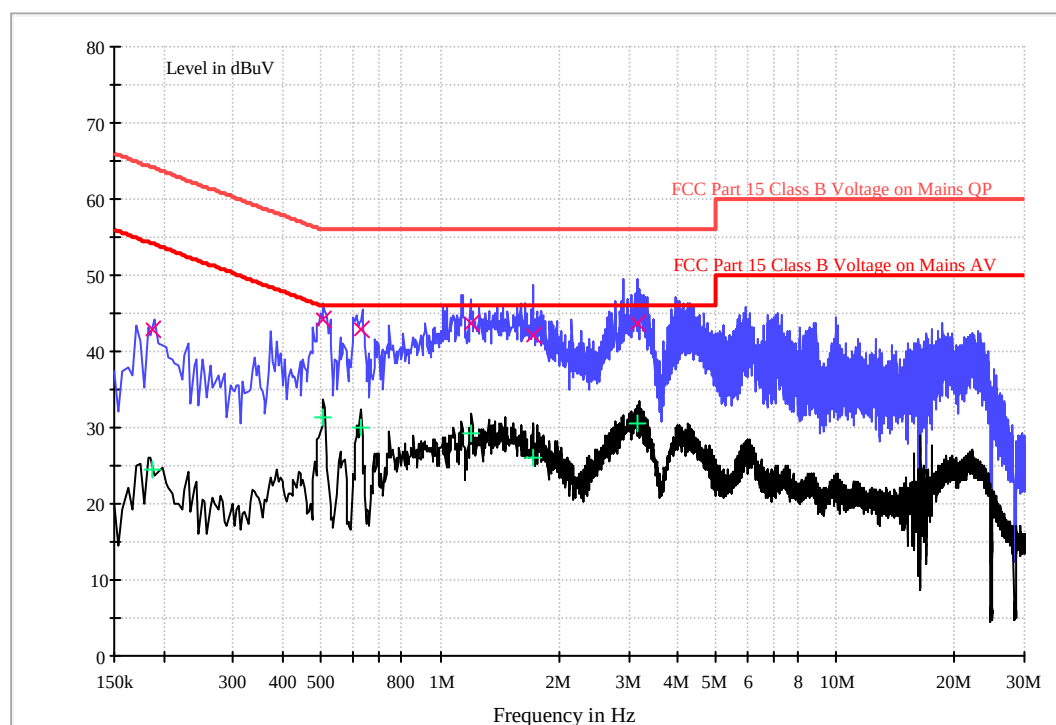
Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

Worst Case Operating Mode: 802.11n-HT20 (TX-Channel 11)

Adapter: HuntKey

### Conducted Emission Test - FCC



#### Result Table QP

| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|------------------------|------|------------|-------------|--------------------|
| 0.188           | 43.0                   | N    | 10.2       | 21.1        | 64.1               |
| 0.506           | 44.1                   | N    | 10.2       | 11.9        | 56.0               |
| 0.630           | 43.0                   | N    | 10.2       | 13.0        | 56.0               |
| 1.202           | 43.6                   | N    | 10.3       | 12.4        | 56.0               |
| 1.714           | 42.2                   | N    | 10.3       | 13.8        | 56.0               |
| 3.150           | 43.7                   | N    | 10.3       | 12.3        | 56.0               |

#### Result Table AV

| Frequency (MHz) | Average (dB $\mu$ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|------|------------|-------------|--------------------|
| 0.188           | 24.5                 | N    | 10.2       | 29.6        | 54.1               |
| 0.506           | 31.4                 | N    | 10.2       | 14.6        | 46.0               |
| 0.630           | 29.9                 | N    | 10.2       | 16.1        | 46.0               |
| 1.202           | 29.3                 | N    | 10.3       | 16.7        | 46.0               |
| 1.714           | 26.0                 | N    | 10.3       | 20.0        | 46.0               |
| 3.150           | 30.6                 | N    | 10.3       | 15.4        | 46.0               |

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

☐ Not required - No digital part

☐ Test results are attached

☒ Included in the separated report.

TRF no.: FCC 15C\_TX\_b

FCC ID: QISY600-U351

Report No.: 140311039SZN-001

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: March 14, 2014

Model: HUAWEI Y600-U351

### 4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

|   |                                                                 |
|---|-----------------------------------------------------------------|
|   | See attached spectrum analyzer chart (s) for Transmitter timing |
|   | See Transmitter timing diagram provided by manufacturer         |
| x | Not applicable, duty cycle was not used.                        |

**EXHIBIT 5**  
**EQUIPMENT PHOTOGRAPHS**

## INTERTEK TESTING SERVICES

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### 5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.pdf.

**EXHIBIT 6**

**PRODUCT LABELLING**

### 6.0 Product Labelling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

**EXHIBIT 7**

**TECHNICAL SPECIFICATIONS**

### 7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

**EXHIBIT 8**  
**INSTRUCTION MANUAL**

## INTERTEK TESTING SERVICES

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### 8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

## **INTERTEK TESTING SERVICES**

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### **EXHIBIT 9**

### **MISCELLANEOUS INFORMATION**

### 9.0 **Discussion of Pulse Desensitization**

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

**EXHIBIT 10**  
**TEST EQUIPMENT LIST**

## INTERTEK TESTING SERVICES

### 10.0 Test Equipment List

| Equipment No. | Equipment              | Manufacturer    | Model No.    | Serial No. | Cal. Date   | Due Date    |
|---------------|------------------------|-----------------|--------------|------------|-------------|-------------|
| SZ061-03      | BiConiLog Antenna      | ETS             | 3142C        | 00066460   | 29-Jun-2013 | 29-Jun-2014 |
| SZ185-01      | EMI Receiver           | R&S             | ESCI         | 100547     | 10-Mar-2014 | 10-Mar-2015 |
| SZ061-09      | Horn Antenna           | ETS             | 3115         | 00092346   | 16-Nov-2013 | 16-Nov-2014 |
| SZ061-07      | Pyramidal Horn Antenna | ETS             | 3160-09      | 00083067   | 27-Aug-2013 | 27-Aug-2014 |
| SZ061-06      | Active Loop Antenna    | Electro-Metrics | EM-6876      | 217        | 13-May-2013 | 13-May-2014 |
| SZ056-03      | Spectrum Analyzer      | R&S             | FSP 30       | 101148     | 10-Mar-2014 | 10-Mar-2015 |
| SZ181-04      | Preamplifier           | Agilent         | 8449B        | 3008A02474 | 10-Mar-2014 | 10-Mar-2015 |
| SZ188-01      | Anechoic Chamber       | ETS             | RFD-F/A-100  | 4102       | 10-Mar-2014 | 10-Mar-2015 |
| SZ062-02      | RF Cable               | RADIALL         | RG 213U      | --         | 14-Jan-2014 | 14-Jul-2014 |
| SZ062-06      | RF Cable               | RADIALL         | 0.04-26.5GHz | --         | 14-Jan-2014 | 14-Jul-2014 |
| SZ062-12      | RF Cable               | RADIALL         | 0.04-26.5GHz | --         | 17-Oct-2013 | 17-Apr-2014 |
| SZ067-04      | Notch Filter           | Micro-Tronics   | BRM5070 2-02 | --         | 21-May-2013 | 21-May-2014 |
| SZ185-02      | EMI Test Receiver      | R&S             | ESCI         | 100692     | 9-Nov-2013  | 9-Nov-2014  |
| SZ187-01      | Two-Line V-Network     | R&S             | ENV216       | 100072     | 9-Nov-2013  | 9-Nov-2014  |
| SZ187-02      | Two-Line V-Network     | R&S             | ENV216       | 100073     | 9-Nov-2013  | 9-Nov-2014  |
| SZ188-03      | Shielding Room         | ETS             | RFD-100      | 4100       | 23-Aug-2013 | 23-Aug-2014 |