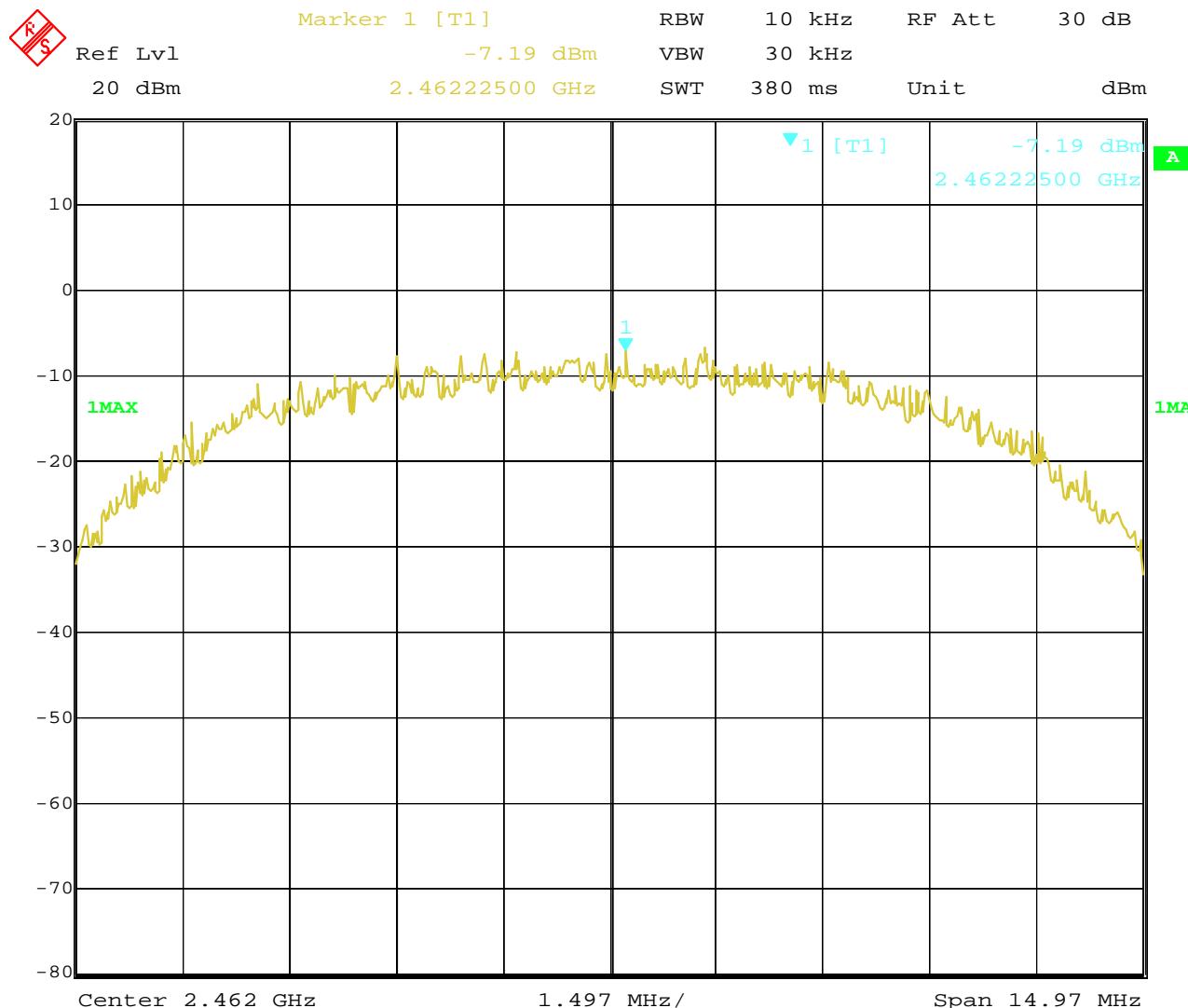




3. 802.11b at 11Mbps of CH11



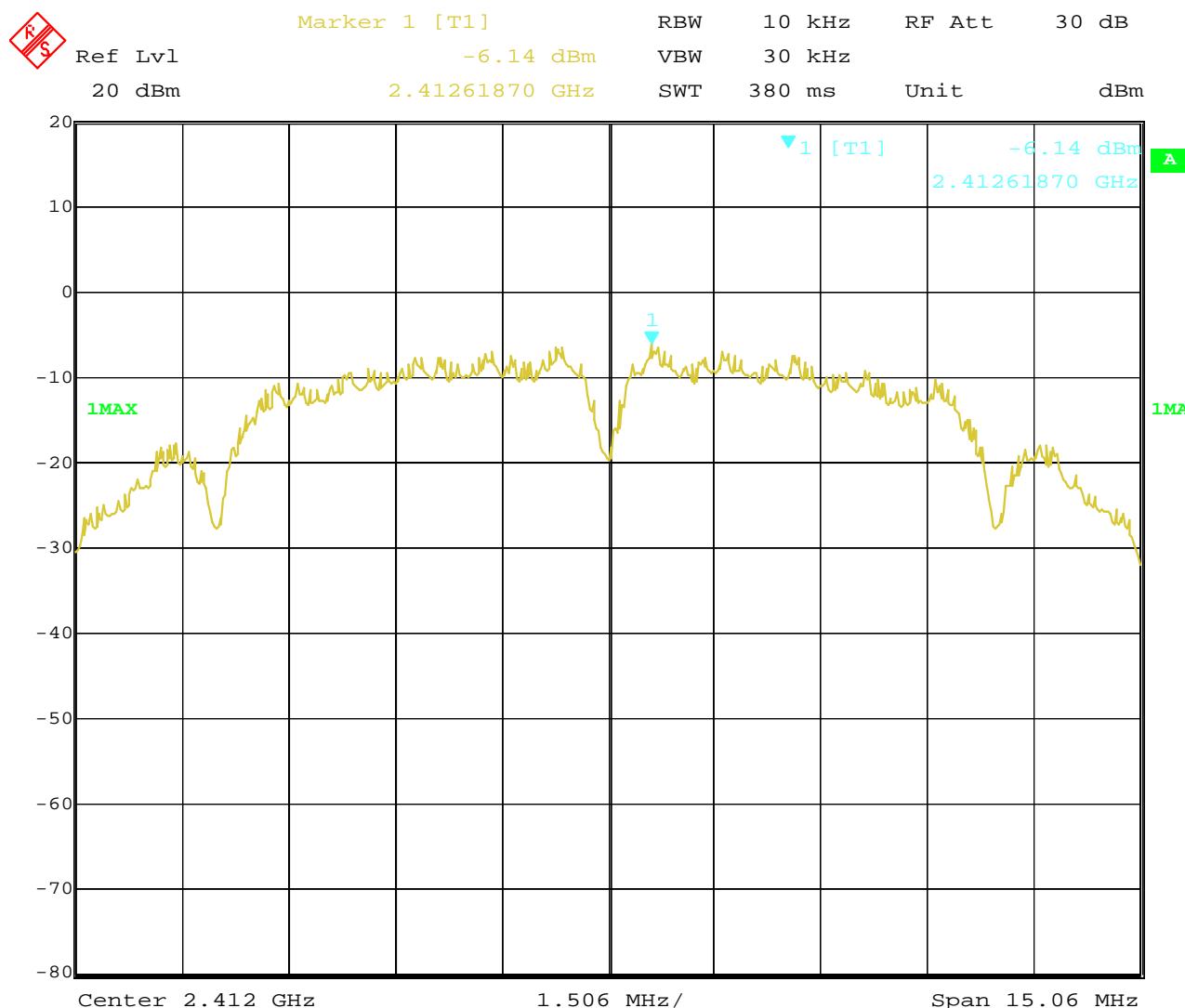
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## 4. 802.11b at 1Mbps of CH1



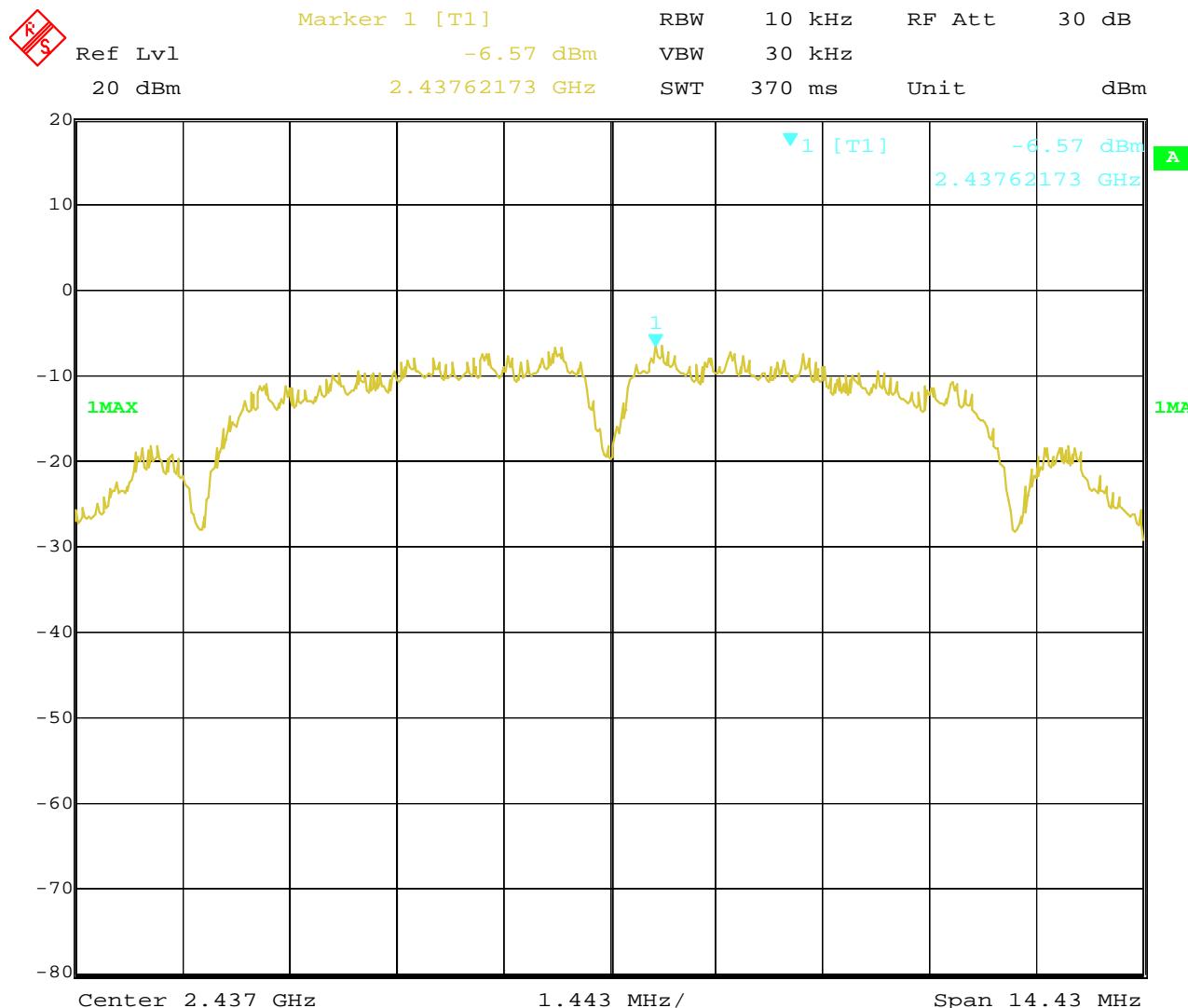
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5. 802.11b at 1Mbps of CH6



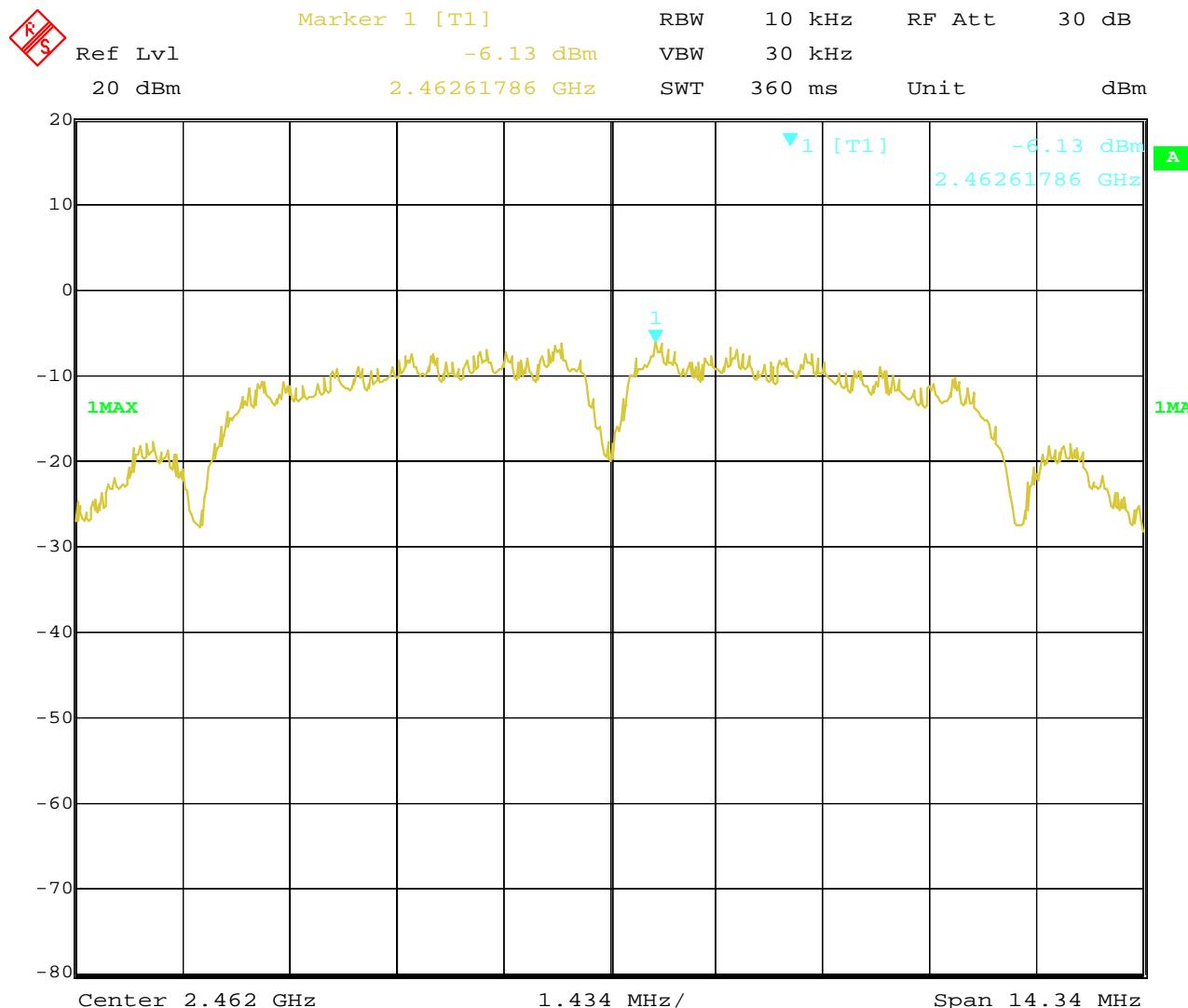
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6. 802.11b at 1Mbps of CH11



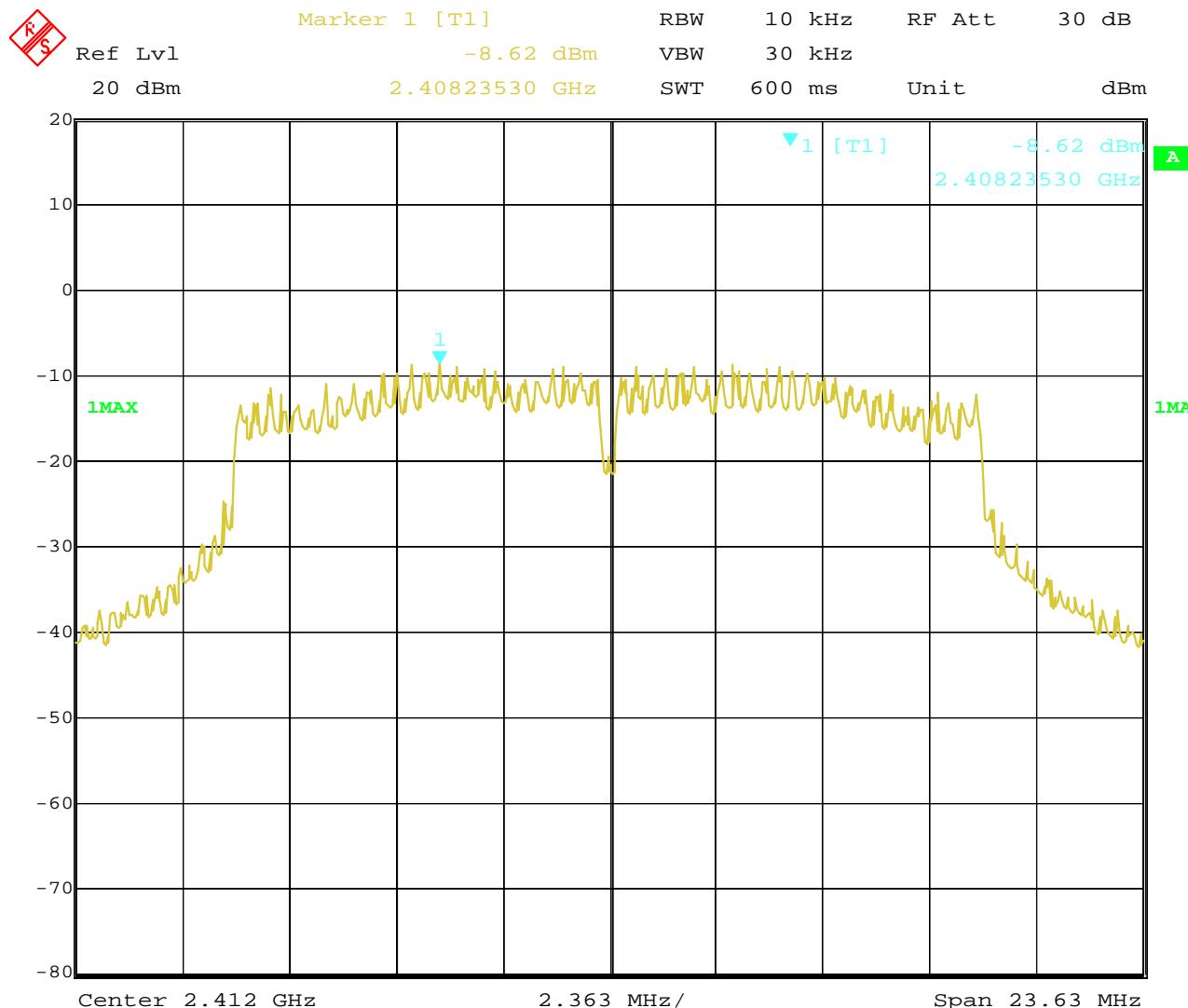
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7. 802.11g at 6Mbps of CH1



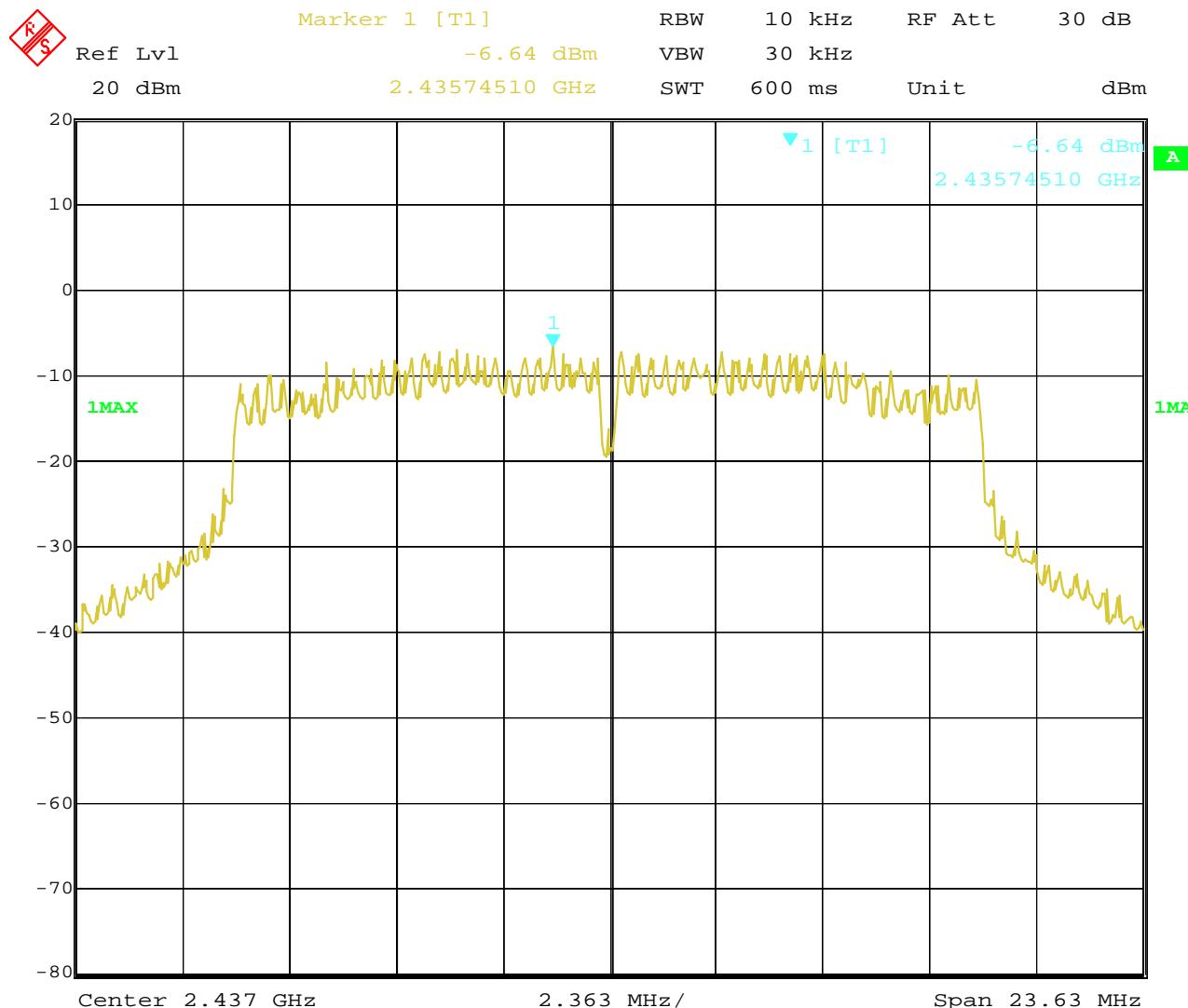
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8. 802.11g at 6Mbps of CH6



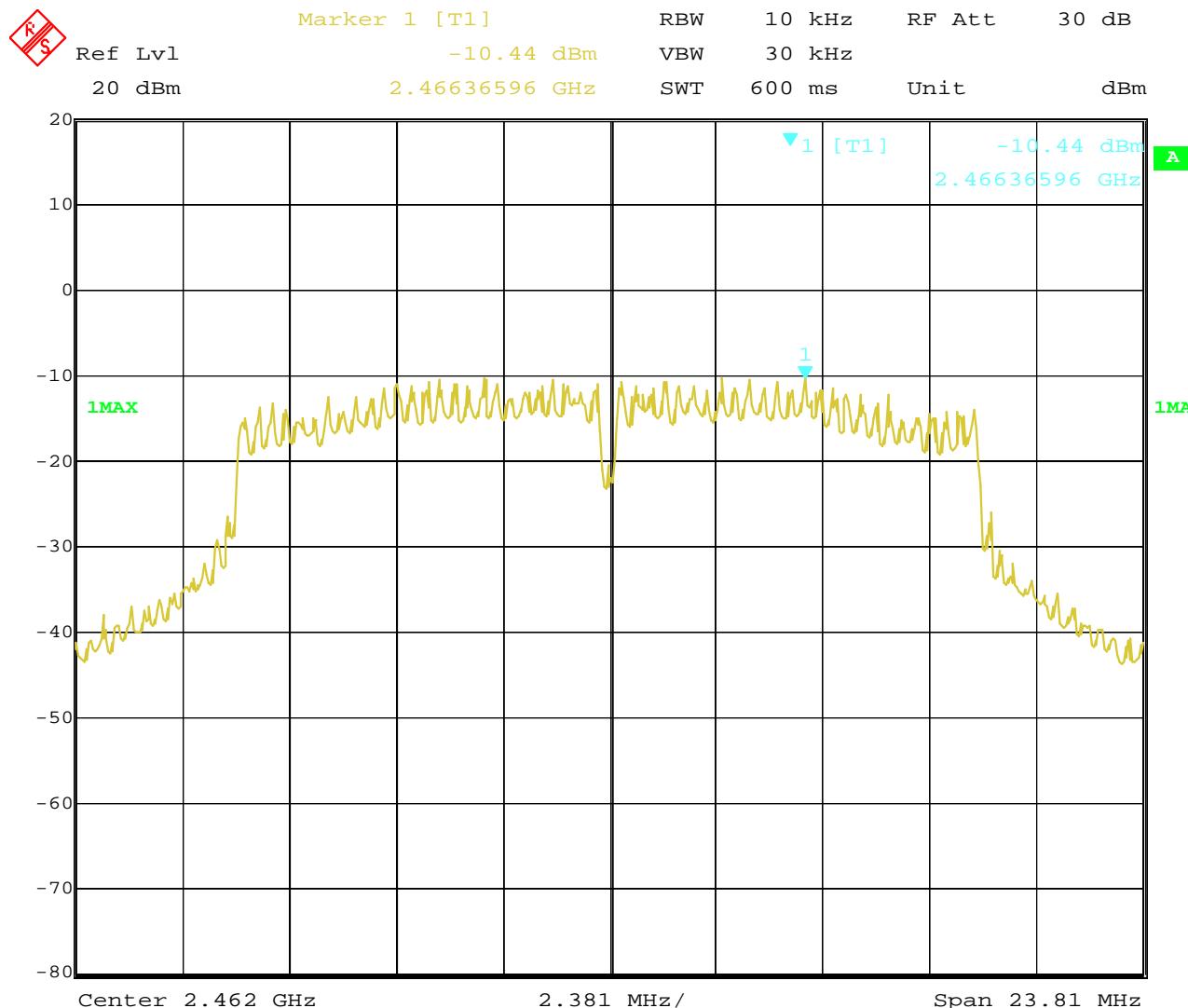
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9. 802.11g at 6Mbps of CH11



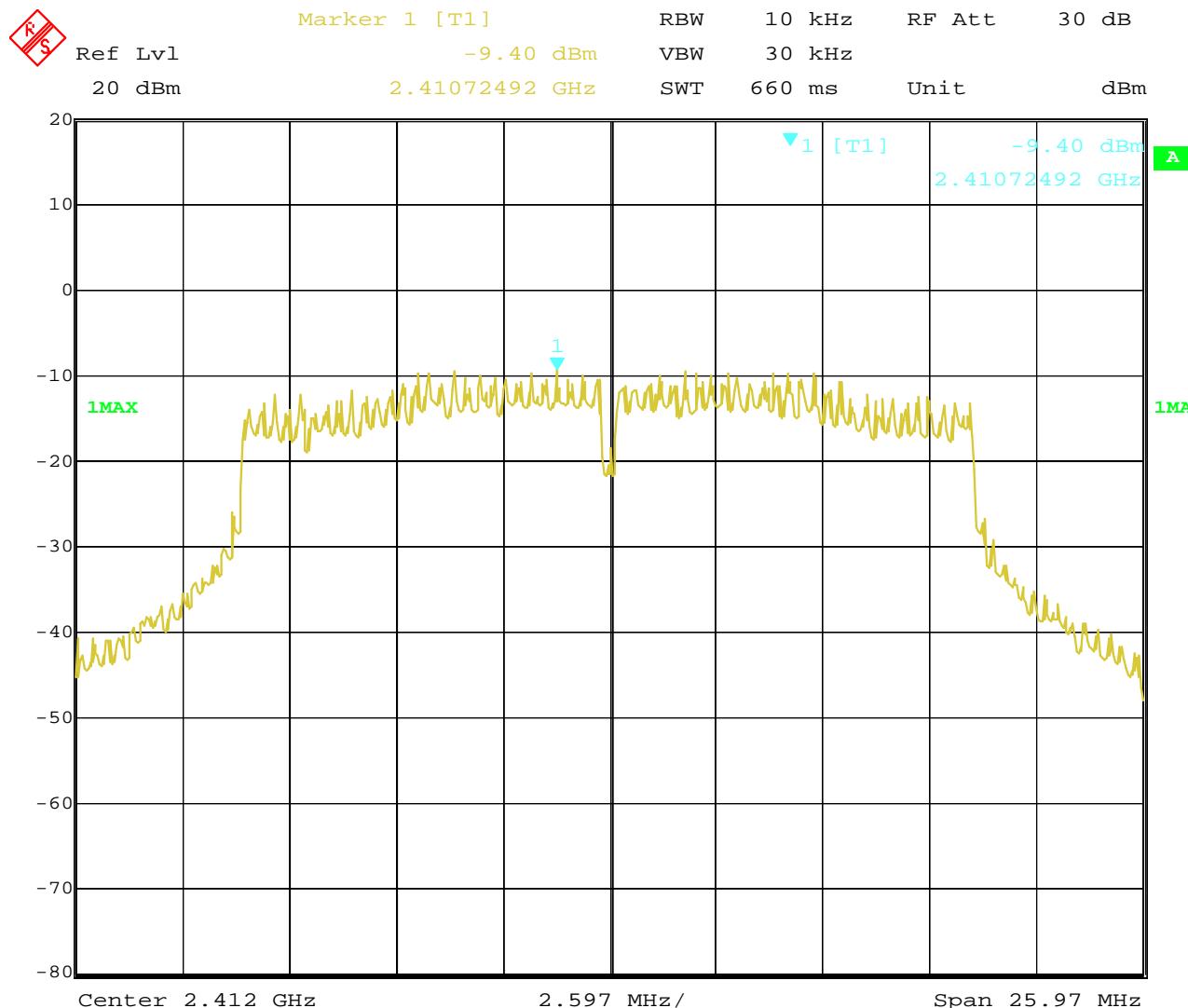
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10. 802.11n at HT20 of CH01



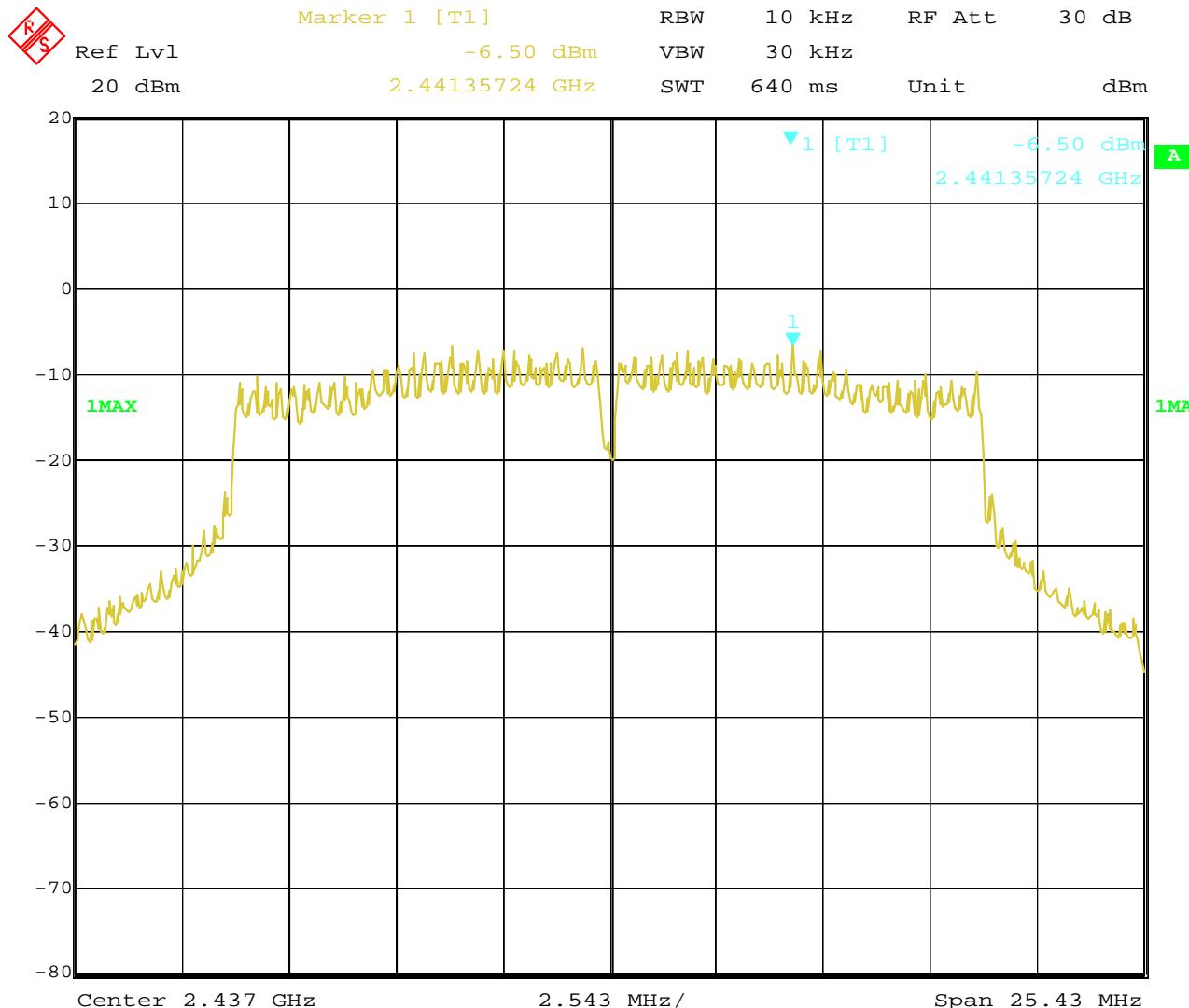
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11. 802.11n at HT20 of CH06



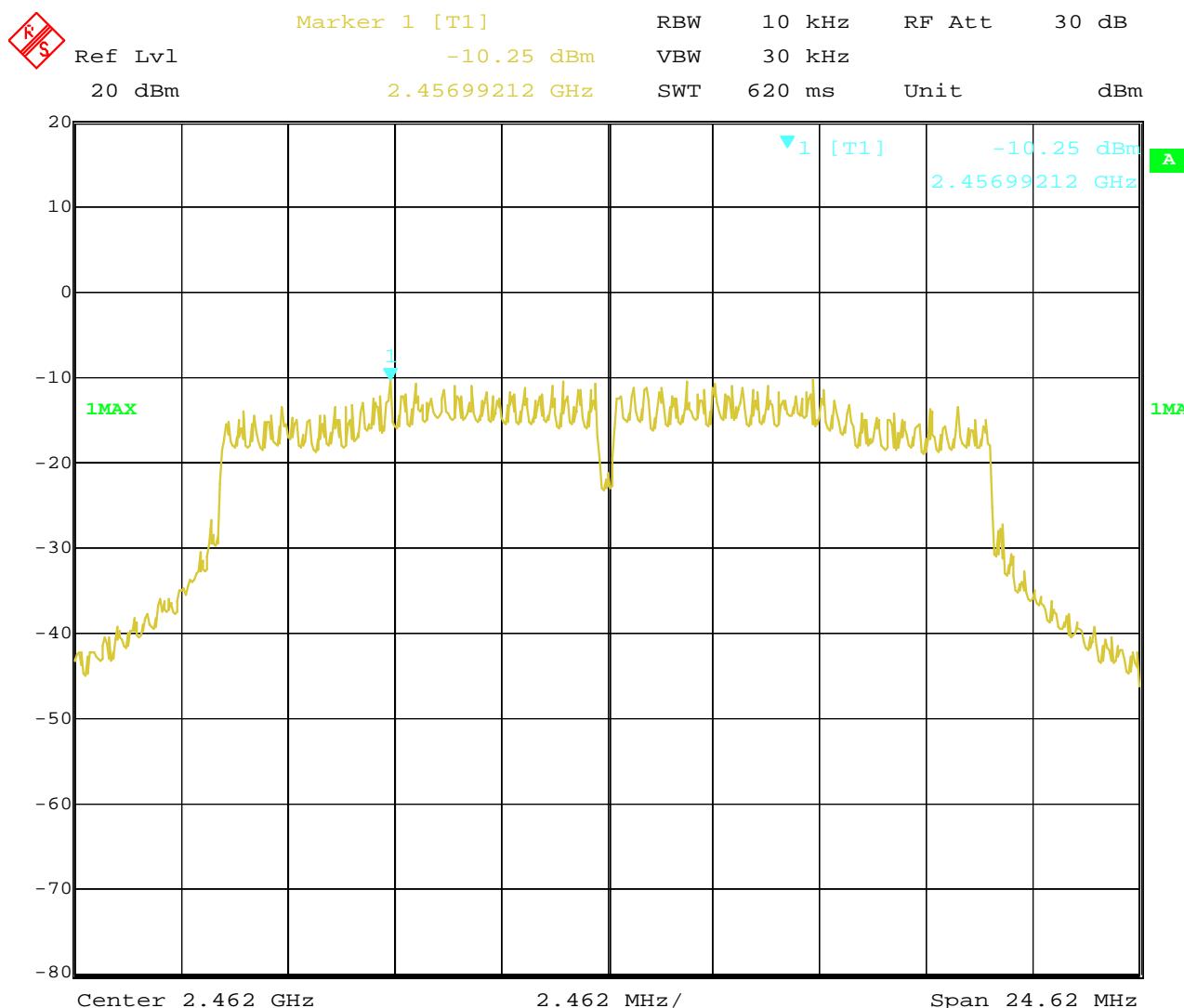
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## 12. 802.11n at HT20 of CH11



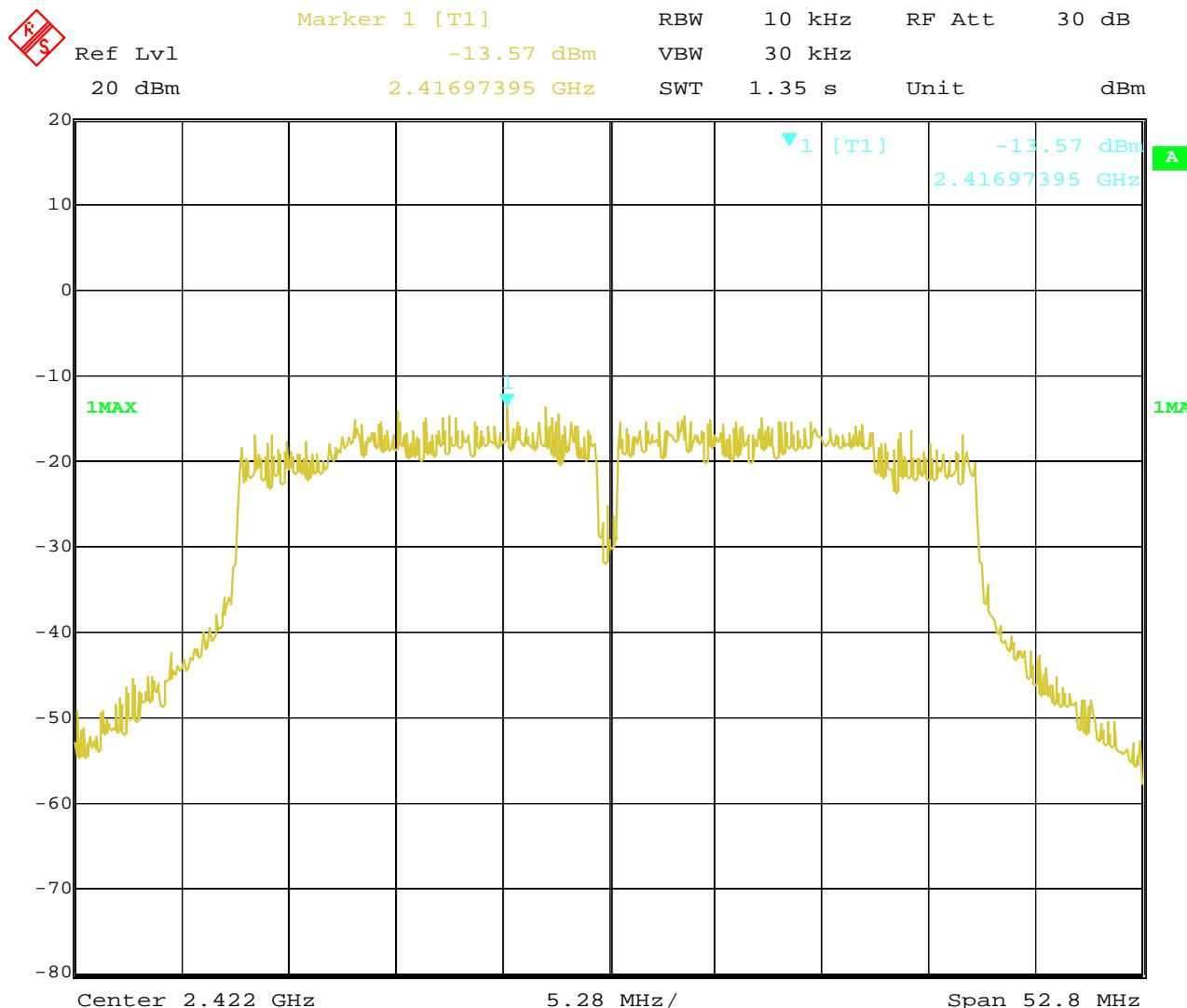
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13. 802.11n at HT40 of CH01



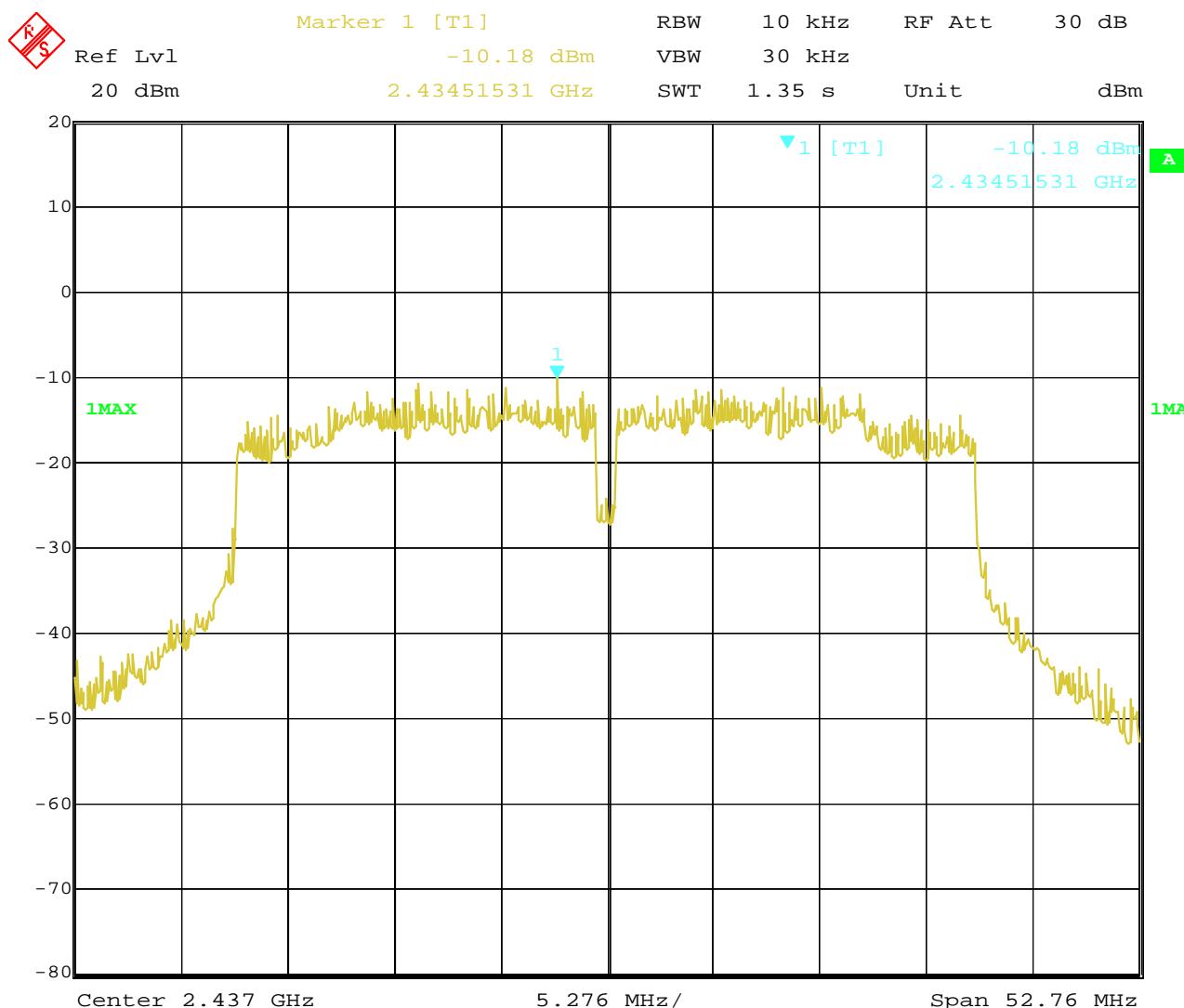
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## 14. 802.11n at HT40 of CH04



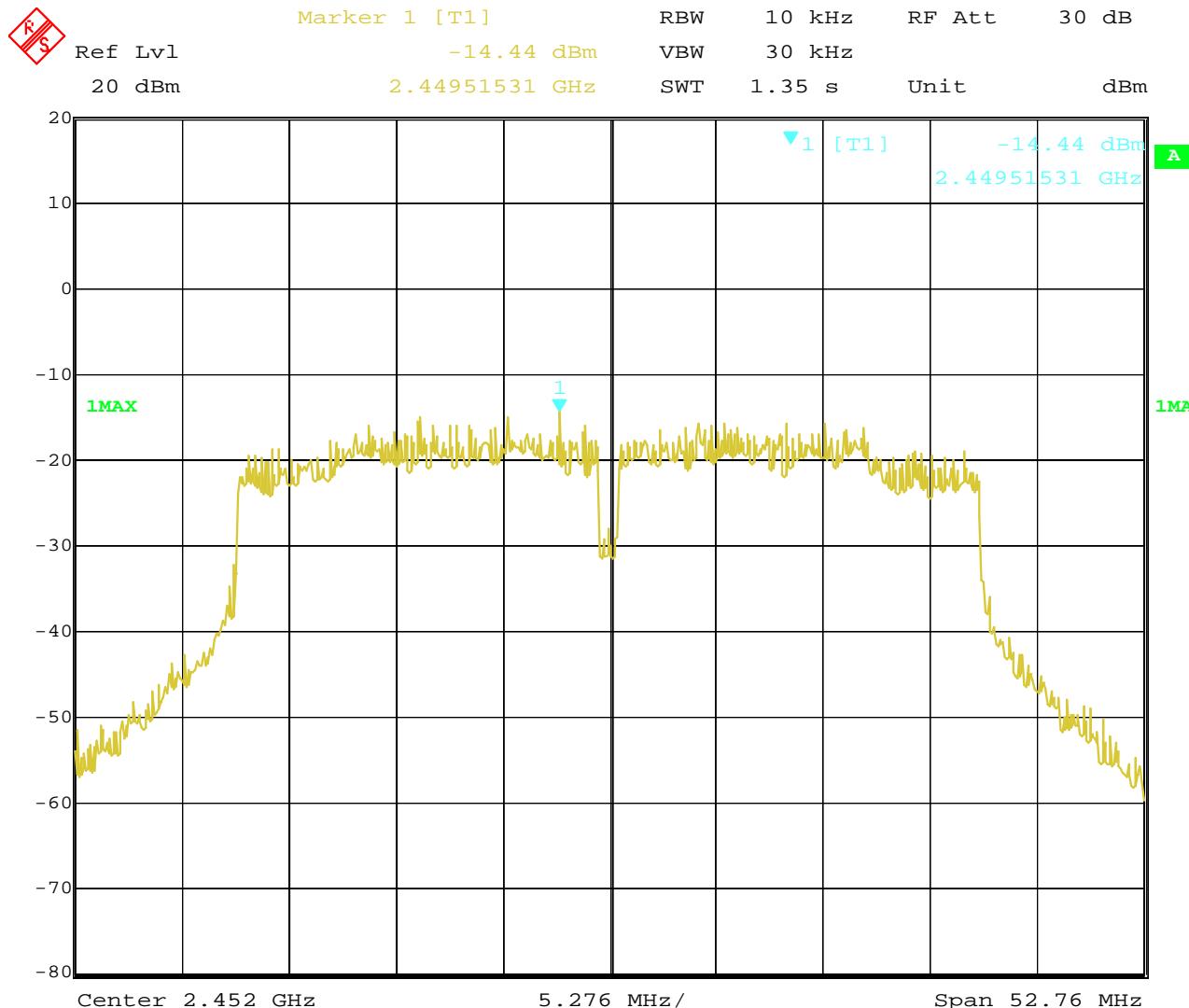
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15. 802.11n at HT40 of CH07



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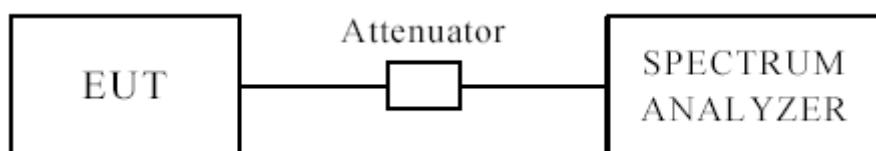
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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

### 10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Note: 1. for band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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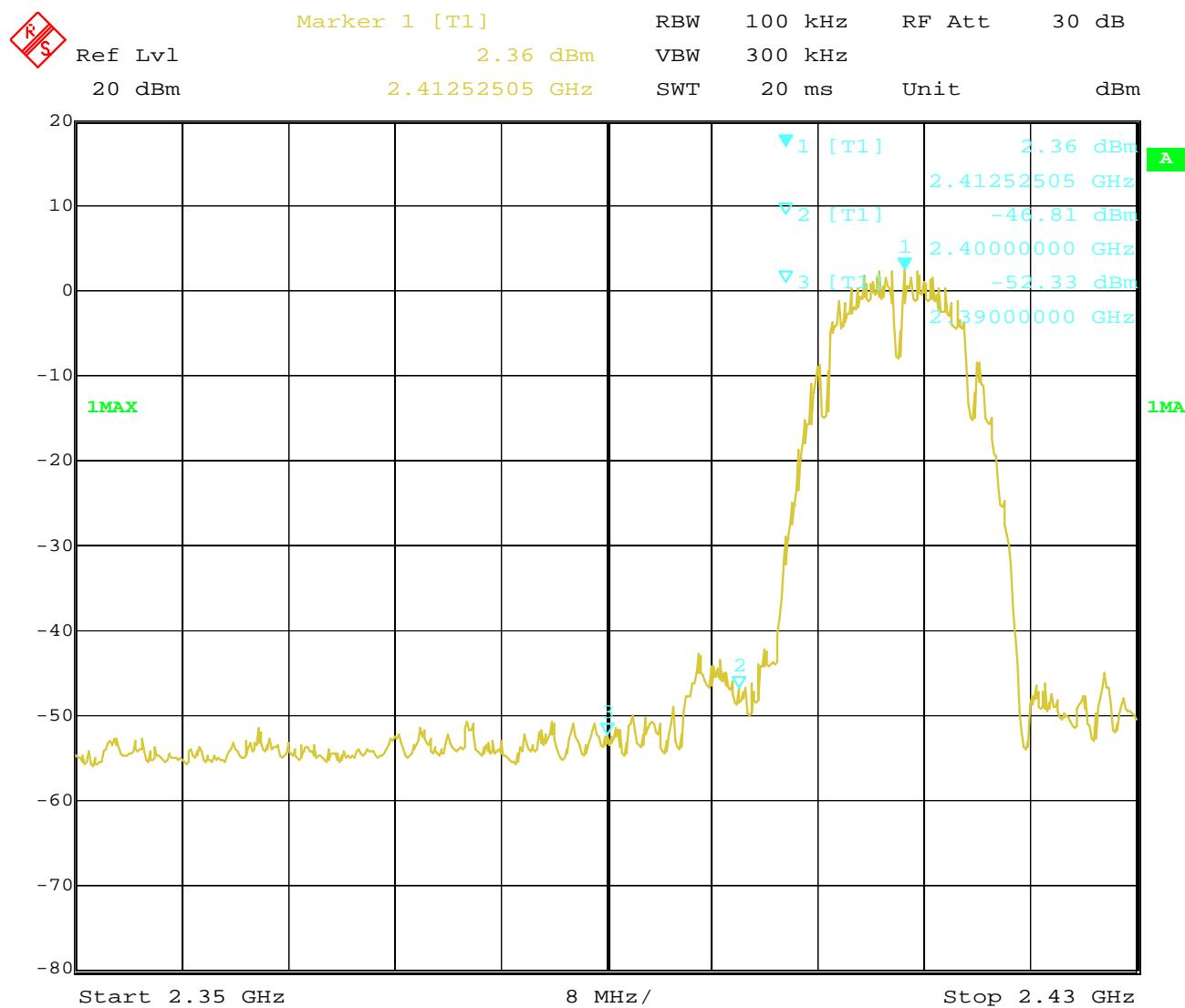
For 802.11b mode

CH01 at 1Mbps

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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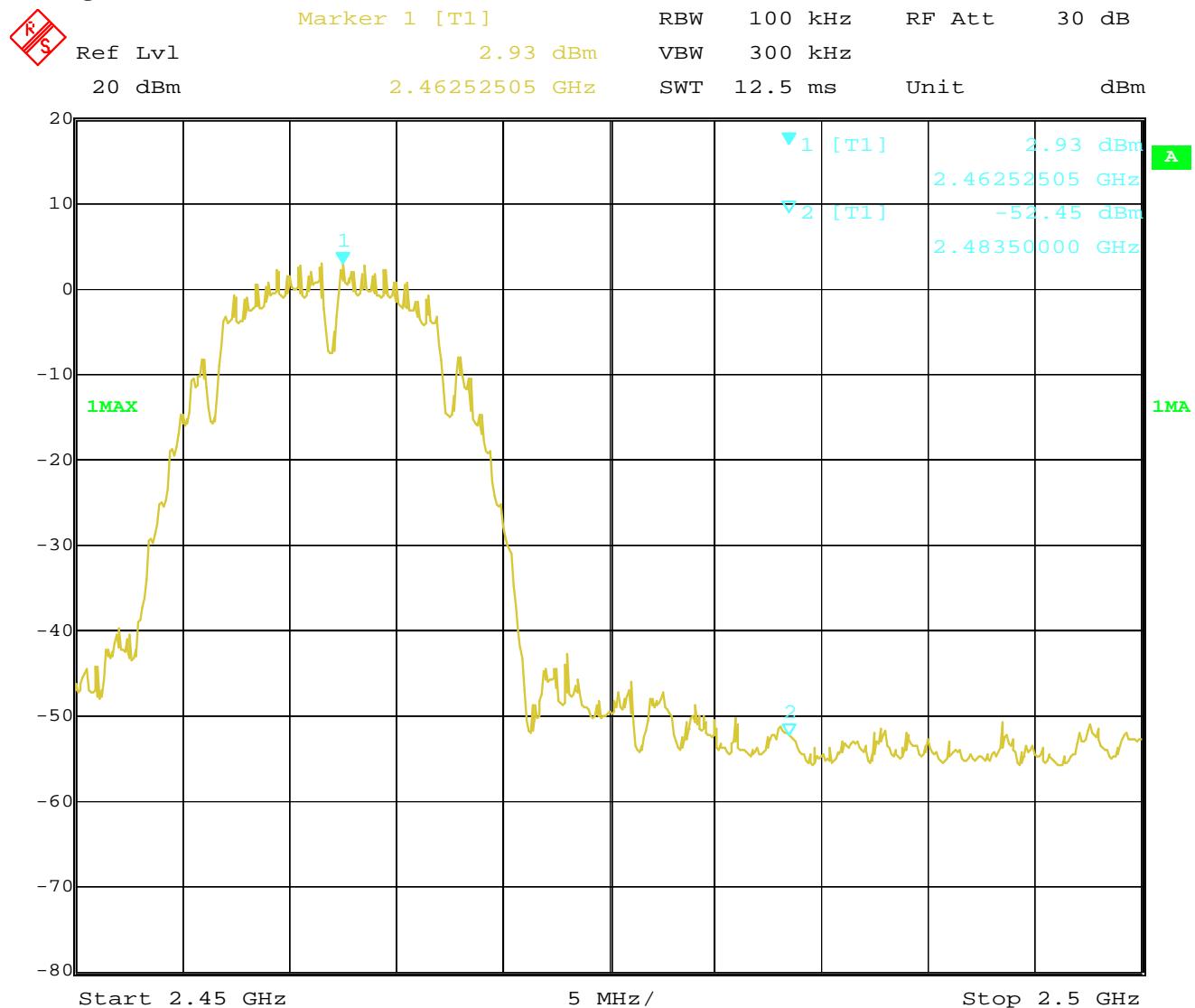
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CH11 at 1Mbps

#### 10.4 Band-edge Measurement

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Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**


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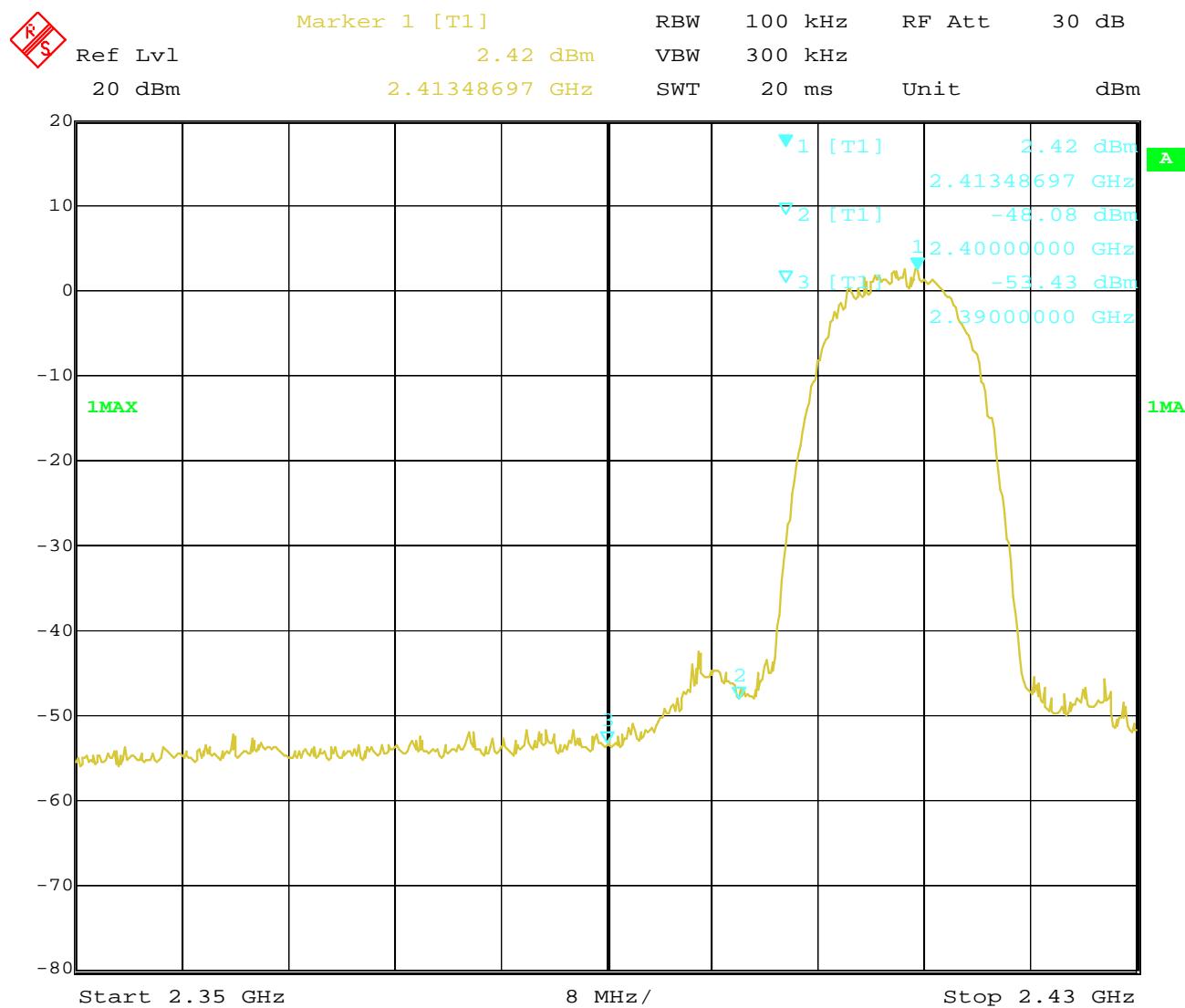
For 802.11b mode

CH01 at 11Mbps

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



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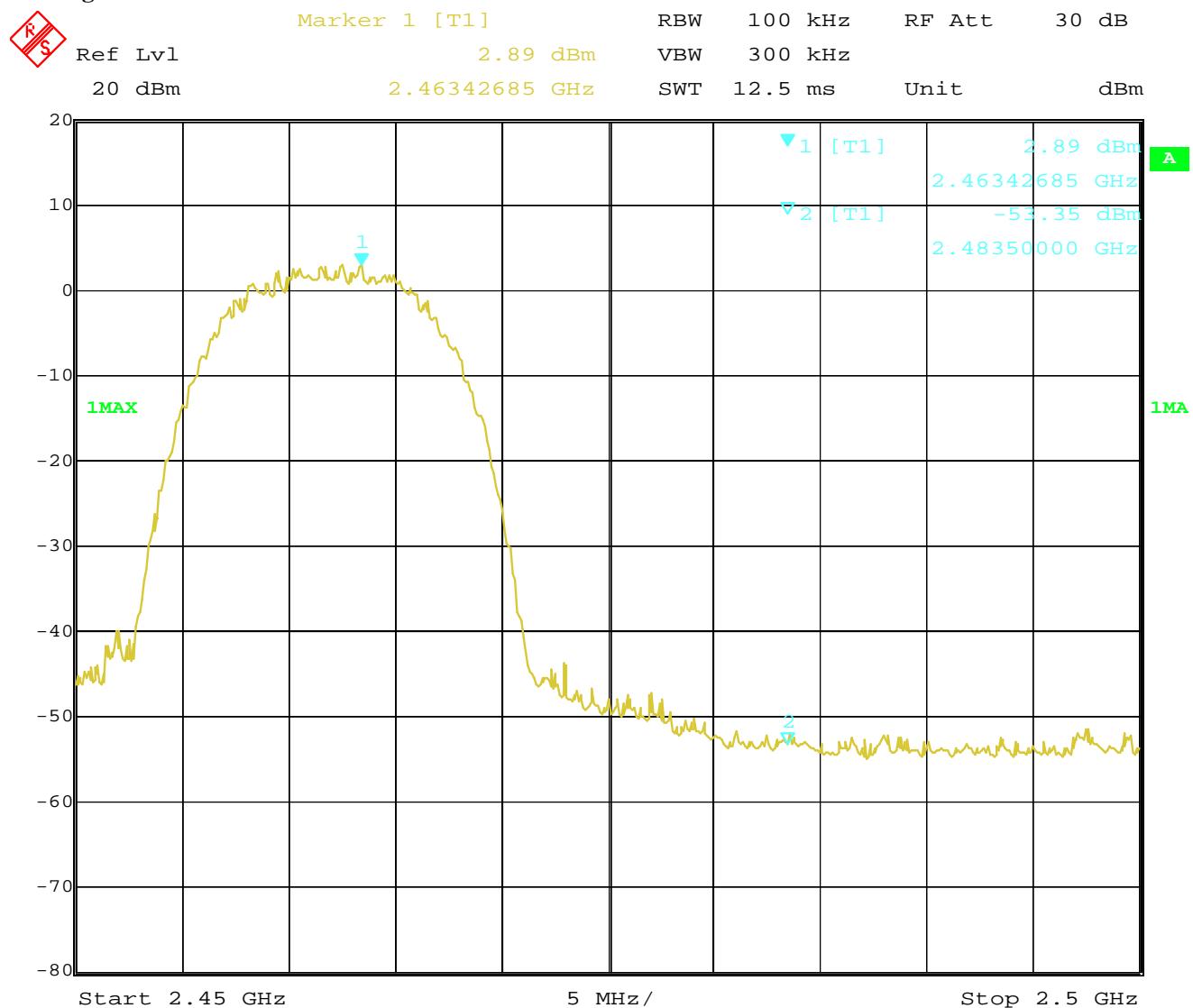
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CH11 at 11Mbps

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**


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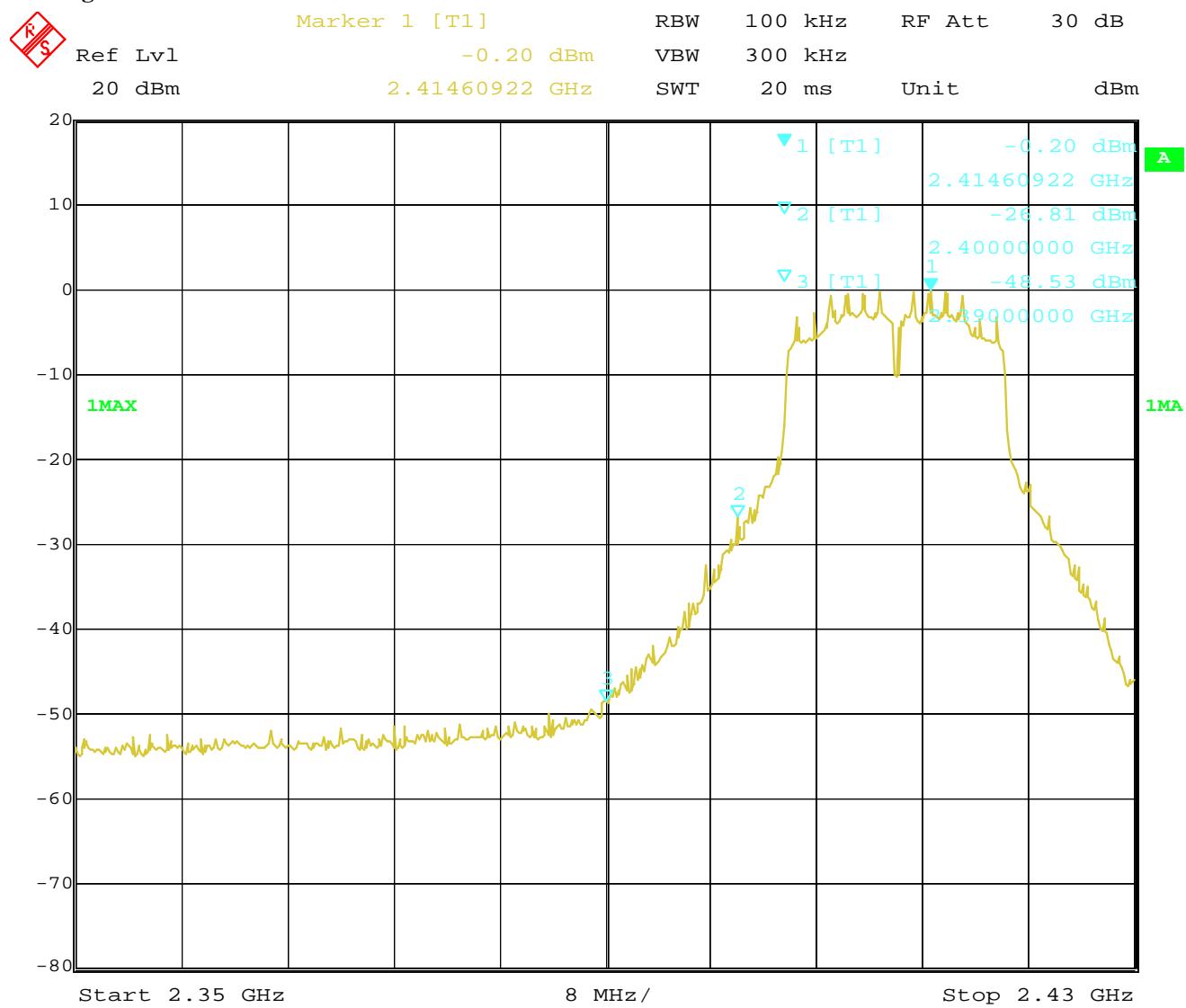
For 802.11g mode

CH01 at 6Mbps

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



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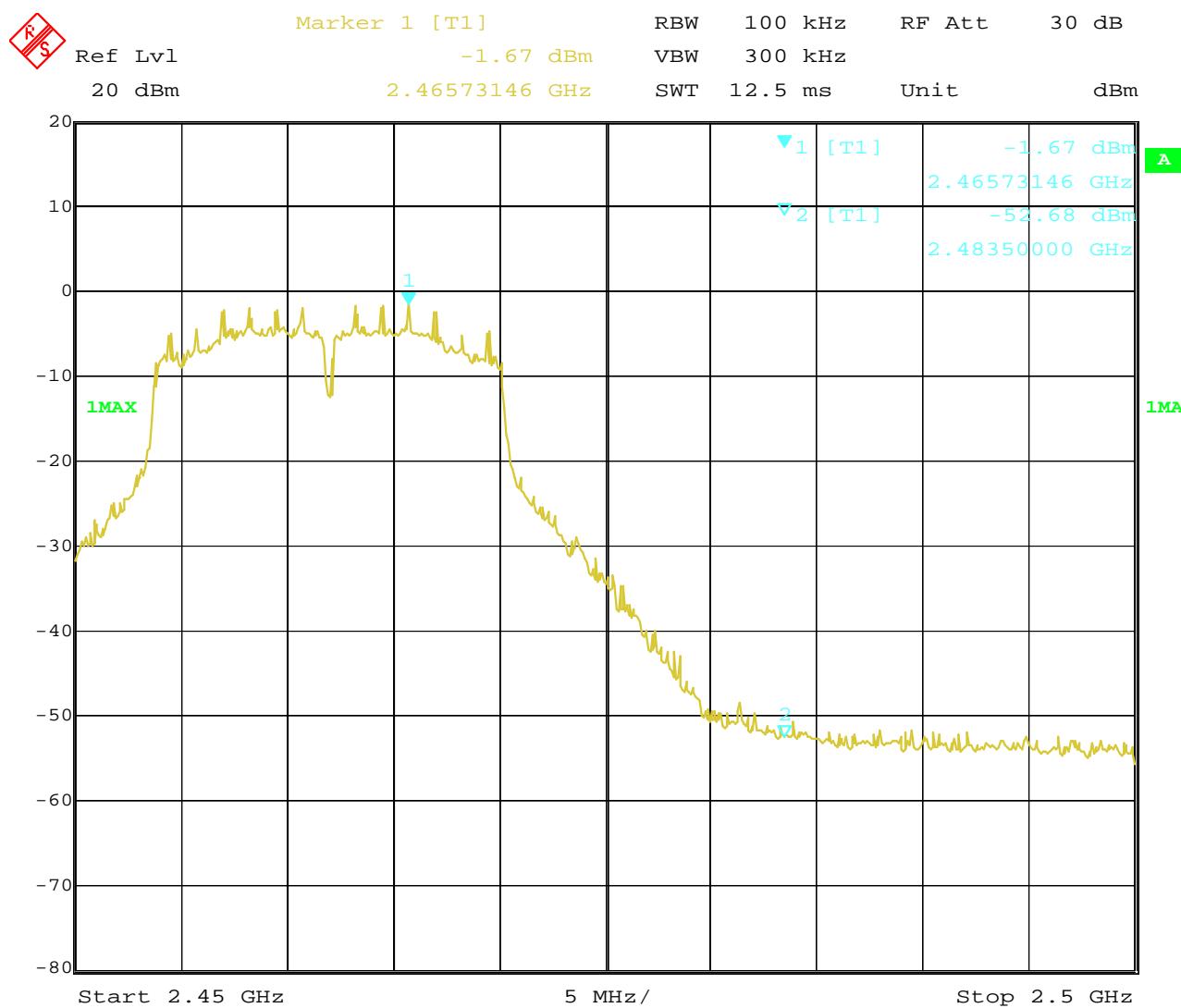


CH11 at 6Mbps

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

##### Test Figure:



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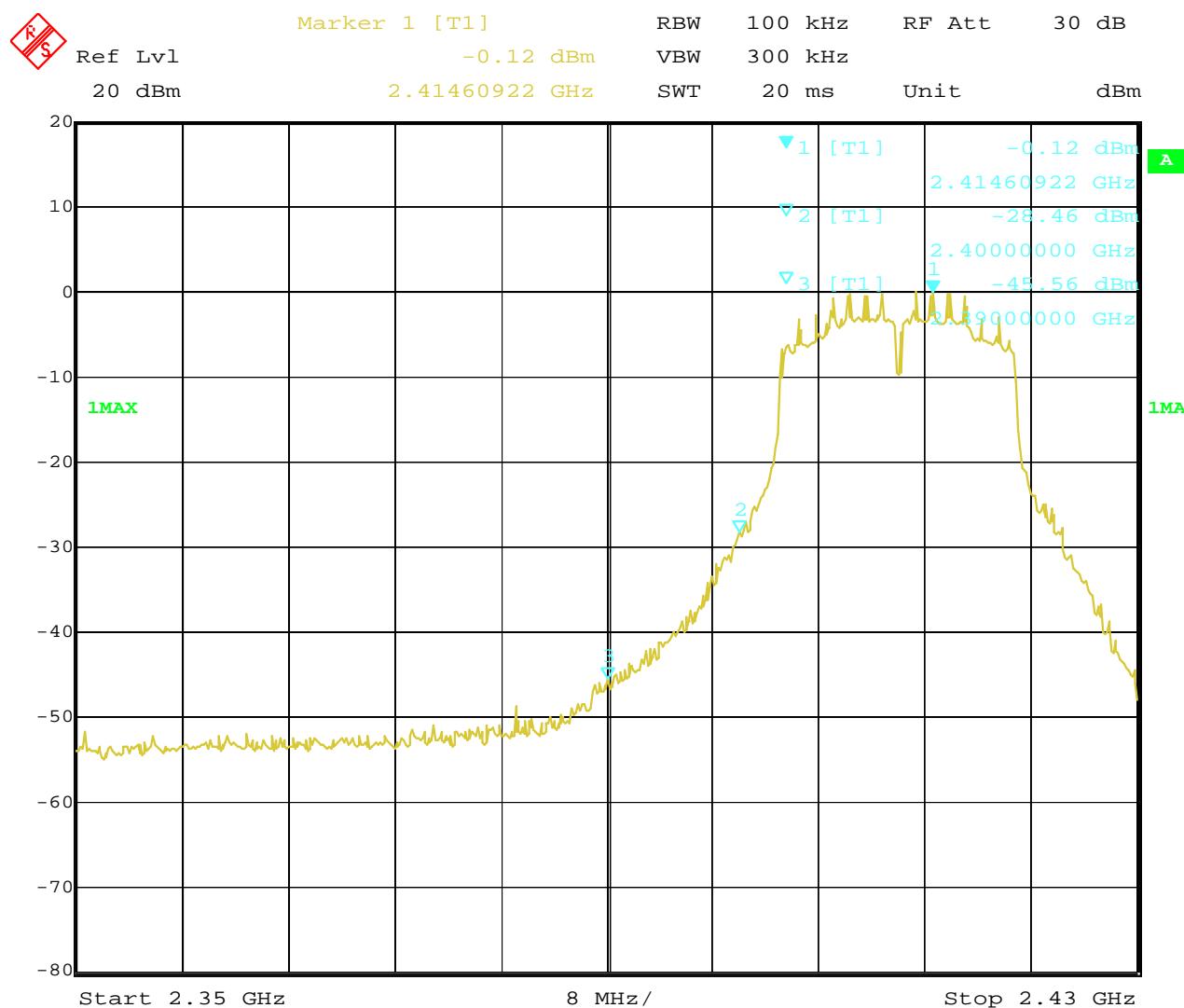
For 802.11n (HT20) mode

CH01 at mcs0

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



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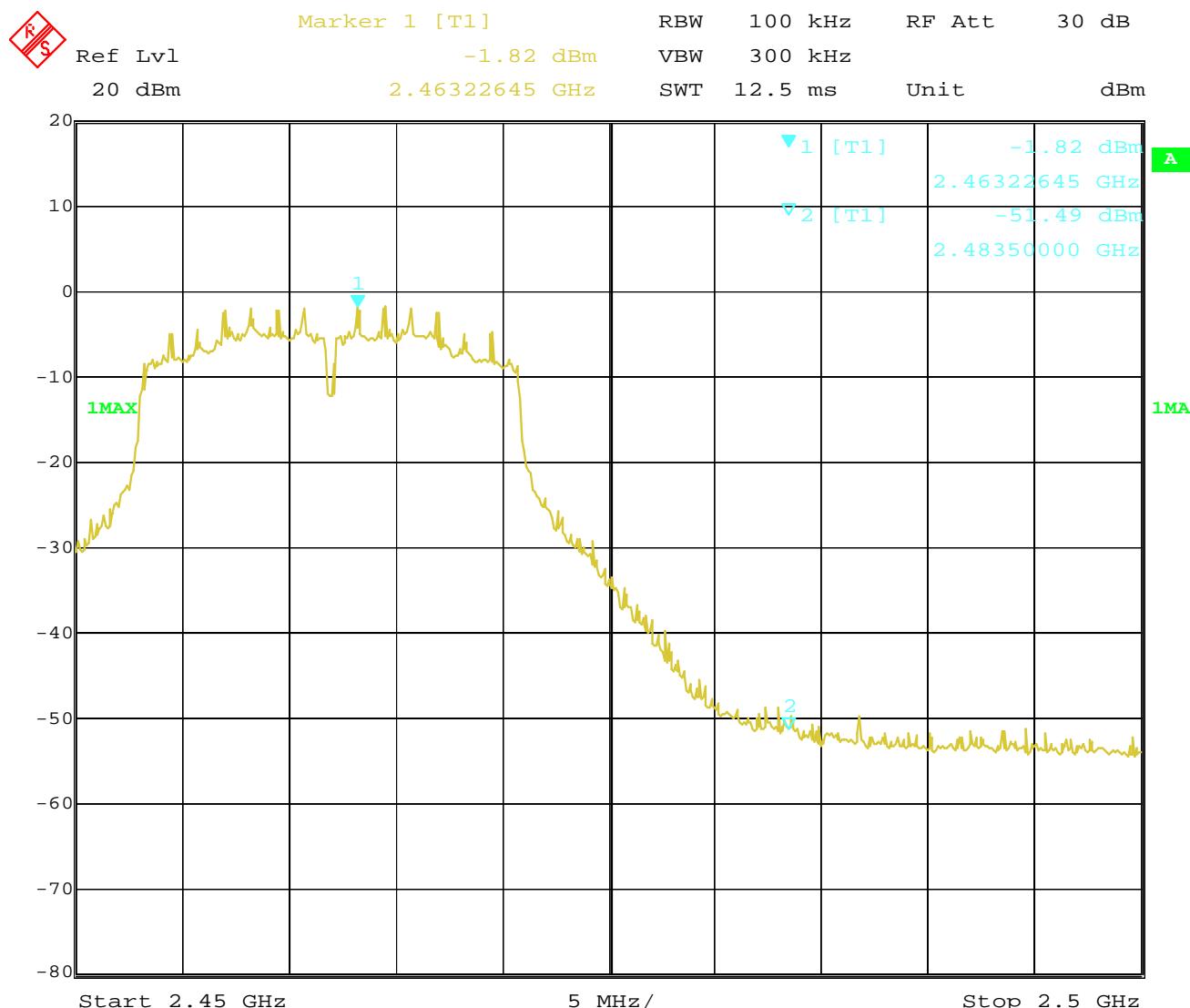
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CH11 at mcs0

#### 10.4 Band-edge Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**


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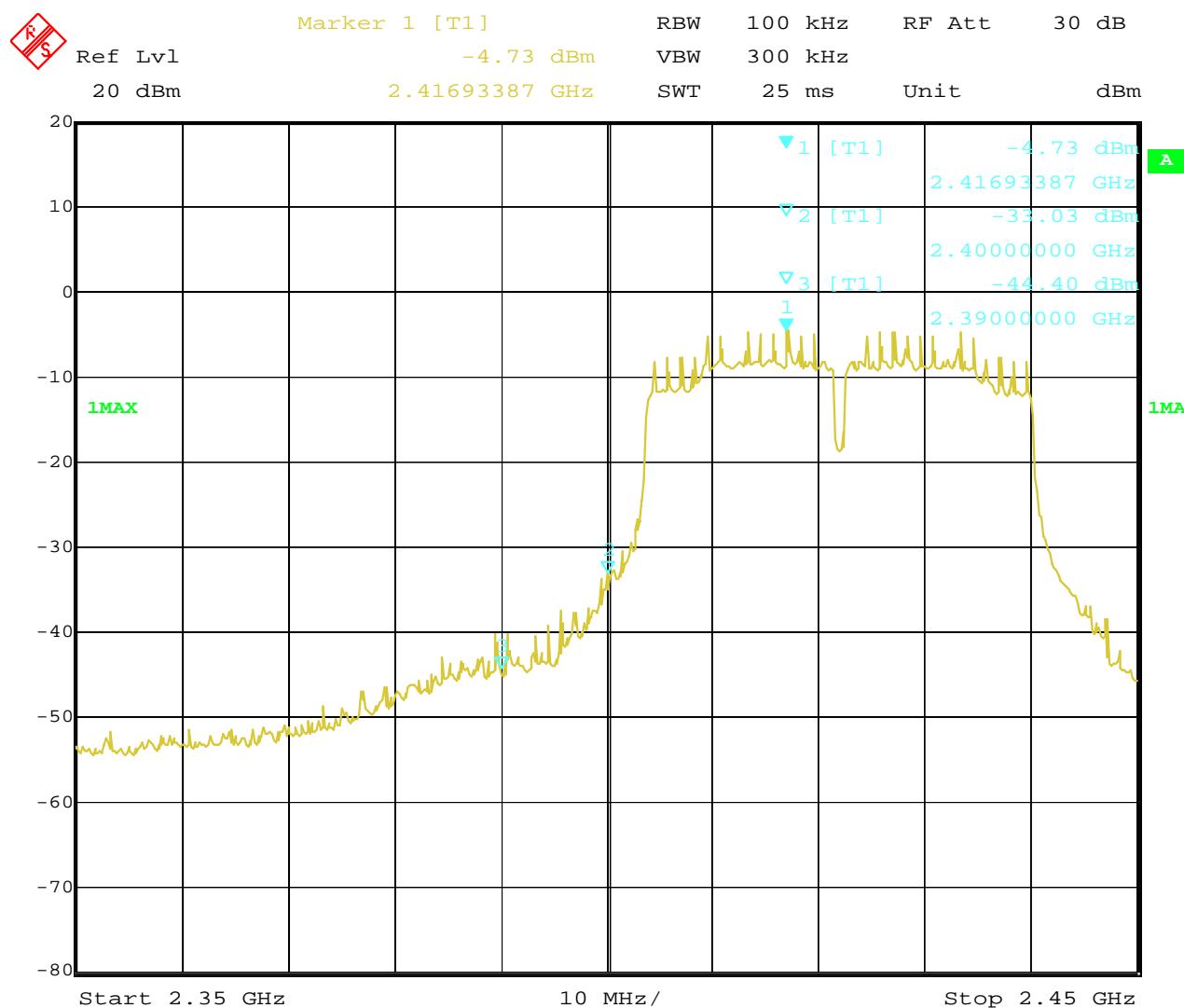
For 802.11n (HT40) mode

CH03 at msc0

#### 10.4 Band-edge and Restricted band Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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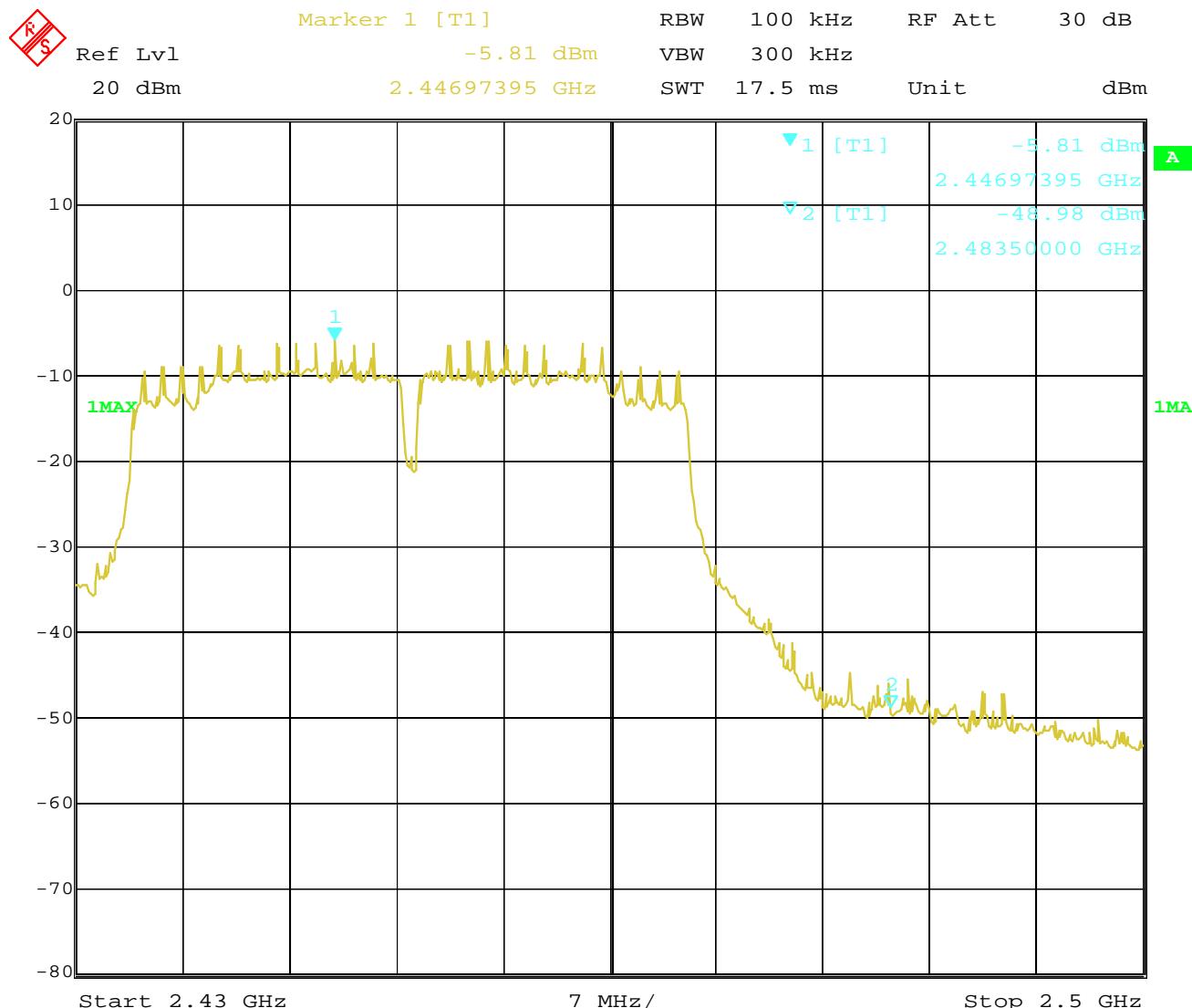
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CH09 at msc0

#### 10.4 Band-edge and Restricted band Measurement

EUT	Smart Gateway	Model	GTW350
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**


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### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	36.85	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	35.85	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	41.14	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	37.27	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	46.29	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	45.38	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	47.55	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	46.23	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	49.53	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	47.85	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	49.77	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	48.16	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	50.86	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT40 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	48.71	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

### 10.5 Restricted band Measurement

EUT	Smart Gateway		Model	GTW350
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	52.69	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT40 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	51.58	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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## 11.0 Antenna Requirement

### 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

### 11.2 Antenna Connected construction

Integral antennas used. The gain of the antennas is 2.0dBi.

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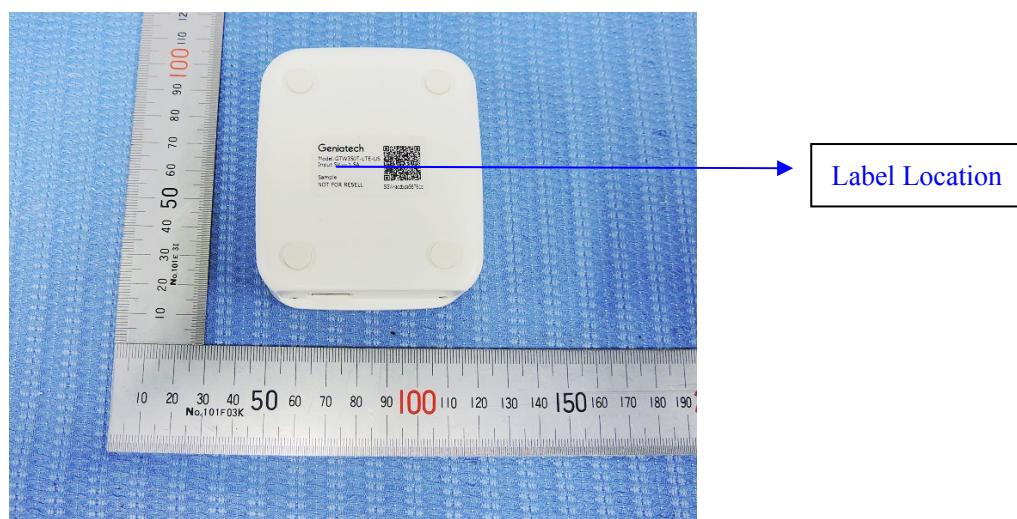
## 12.0 FCC ID Label

**FCC ID: ZJU-E19C05**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



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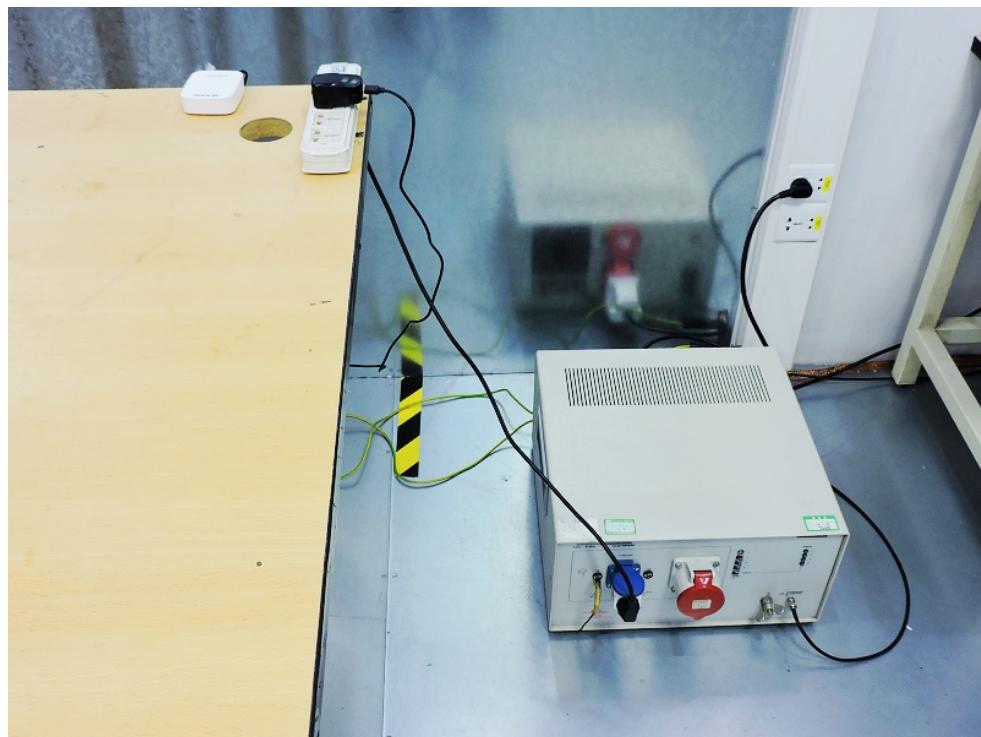
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### 13.0 Photo of testing

Conducted Emission Test Setup:



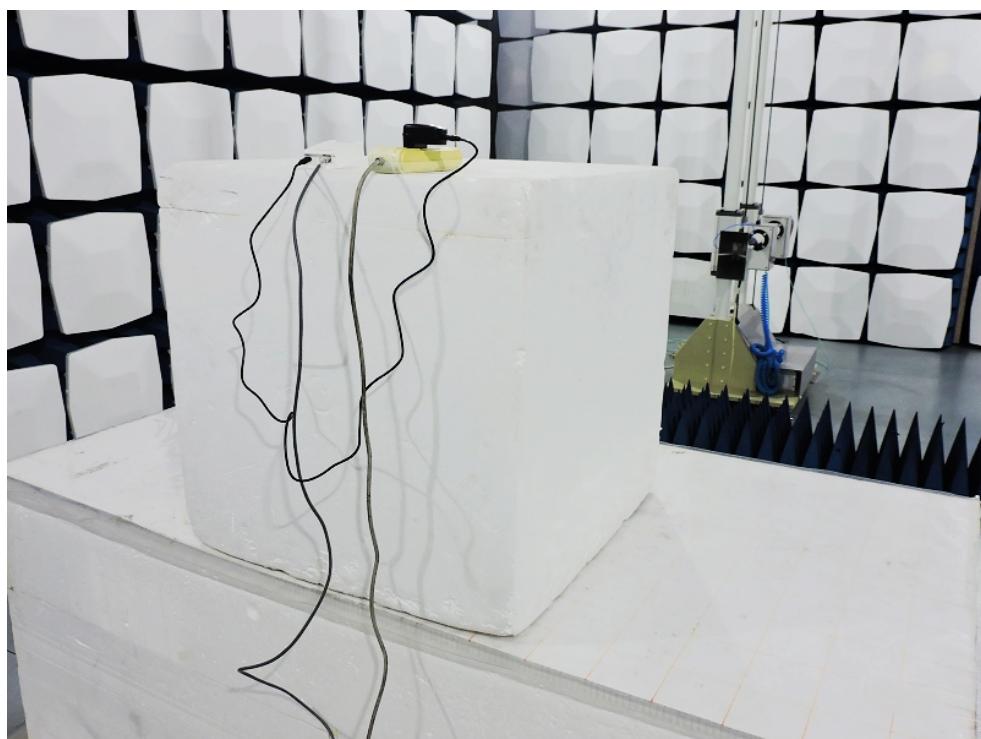
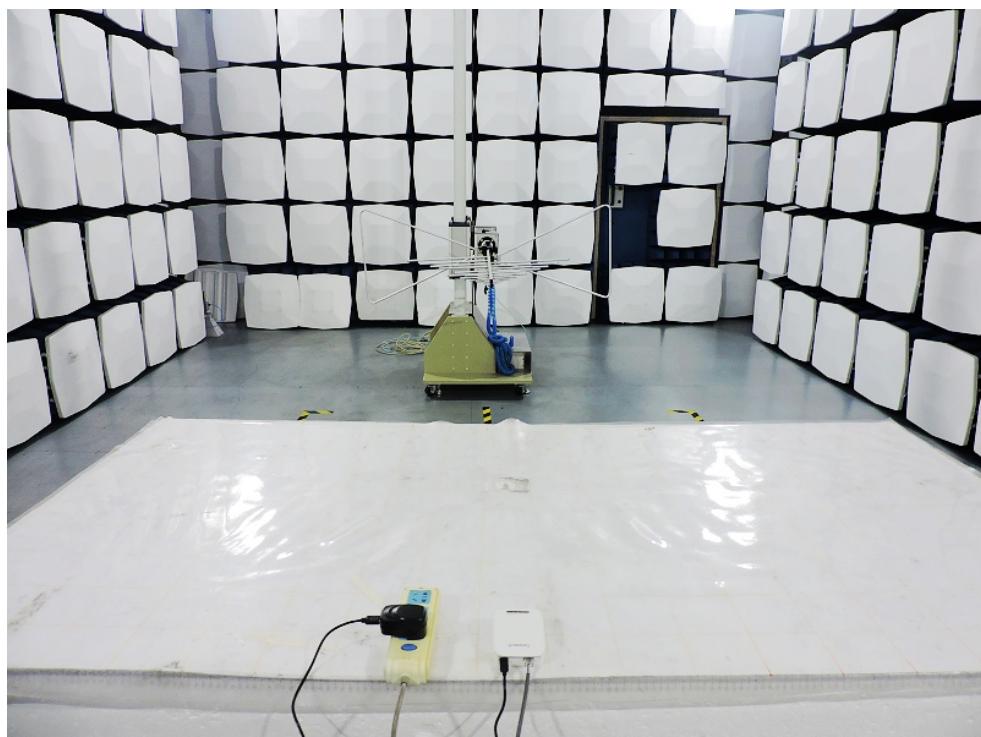
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Radiated Emission Test Setup:



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## Photographs – EUT

Outside View



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Outside View



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Outside View



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Outside View



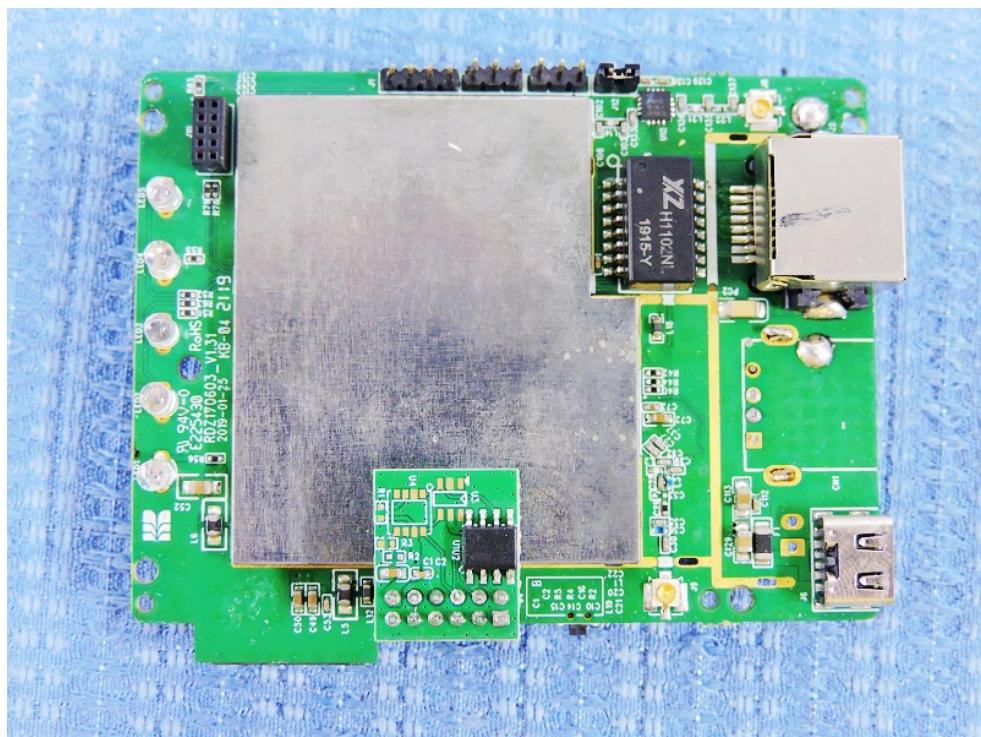
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Inside view



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Inside view



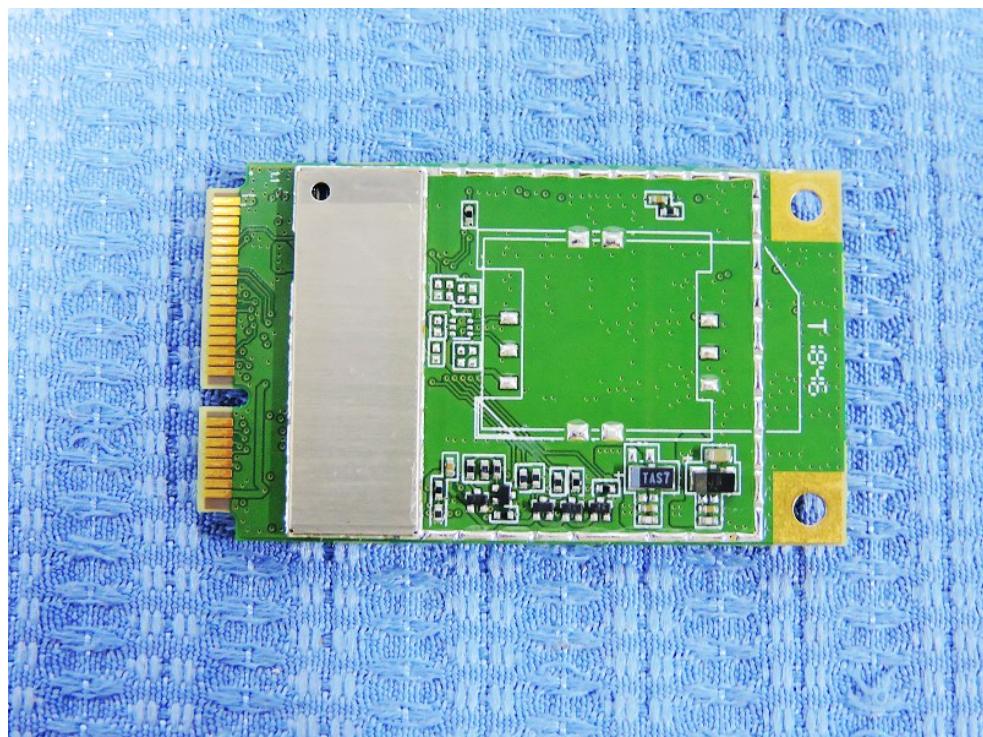
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Inside view



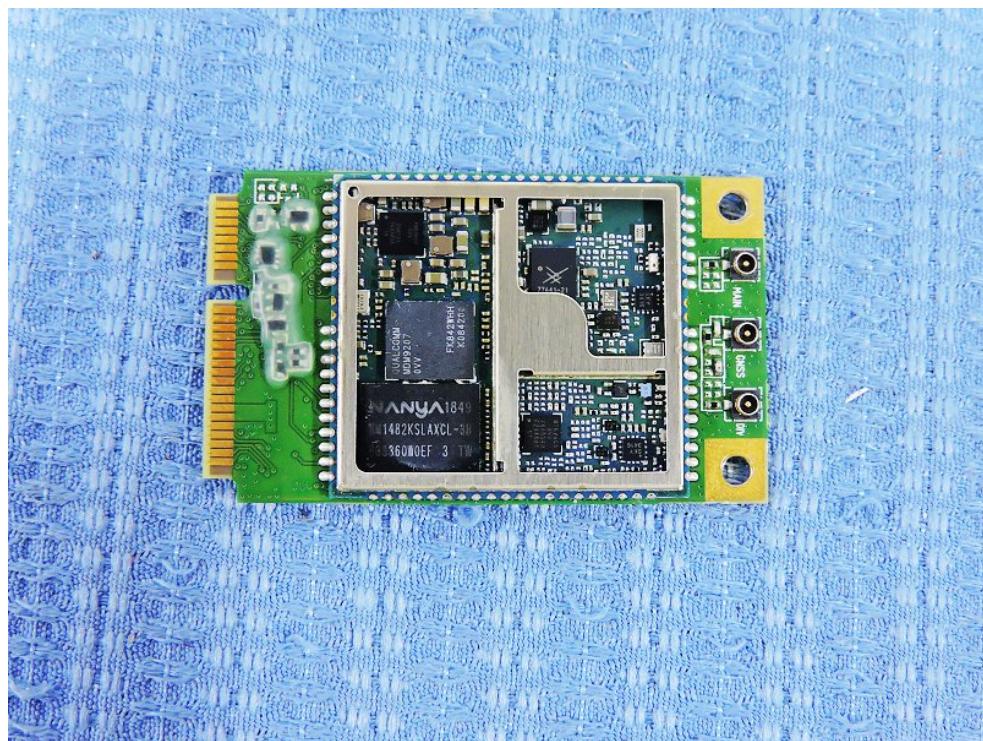
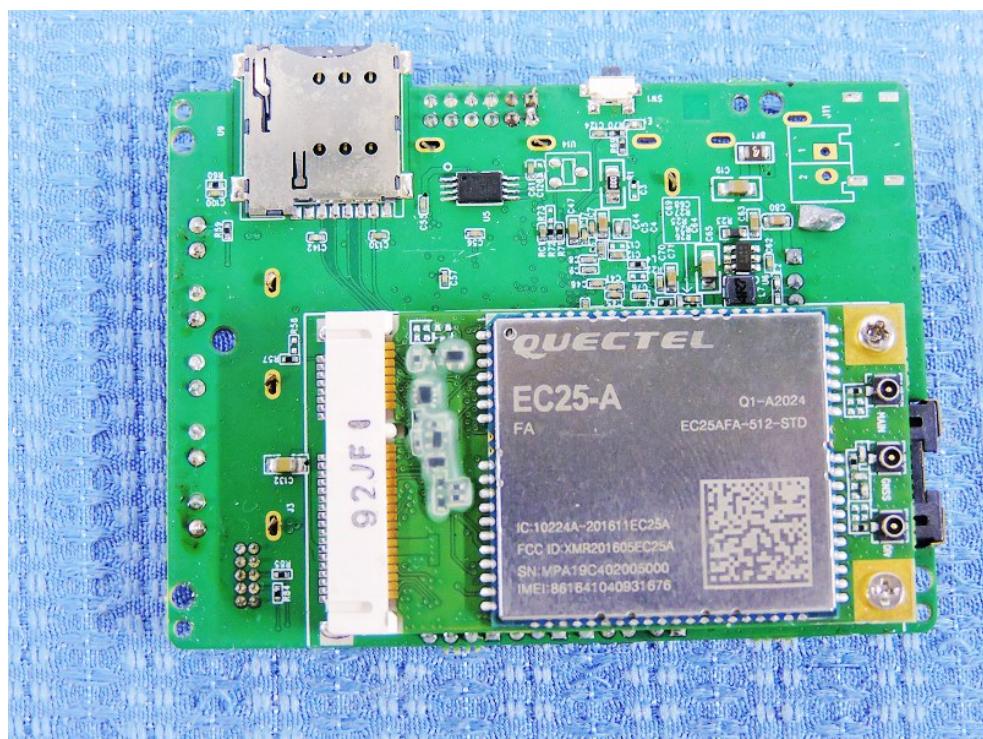
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Inside view



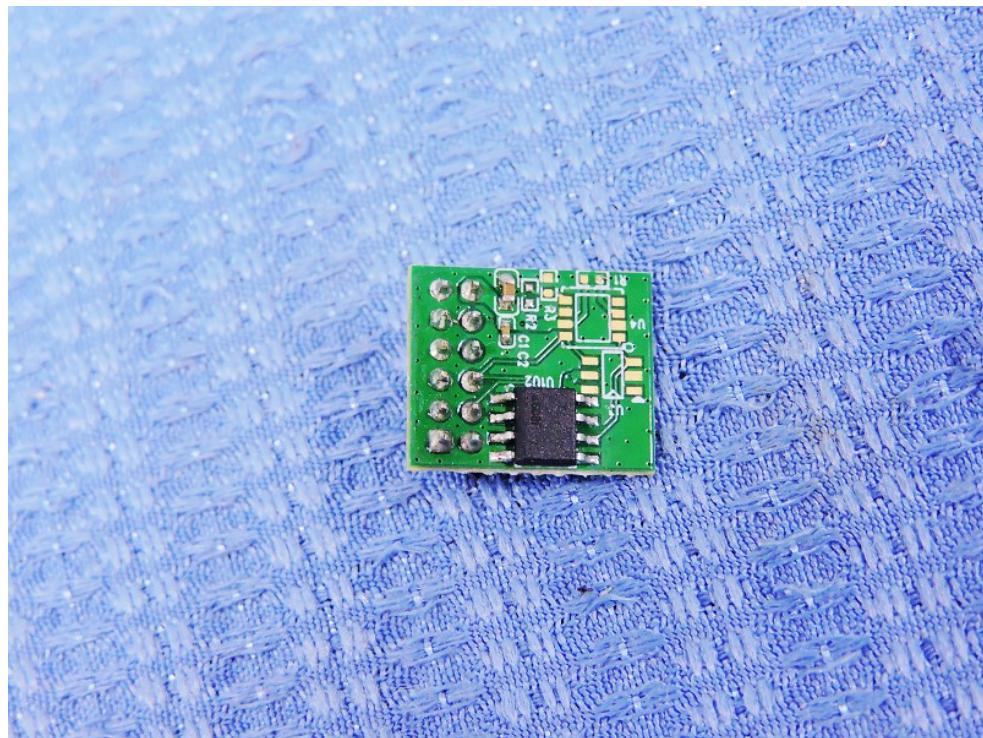
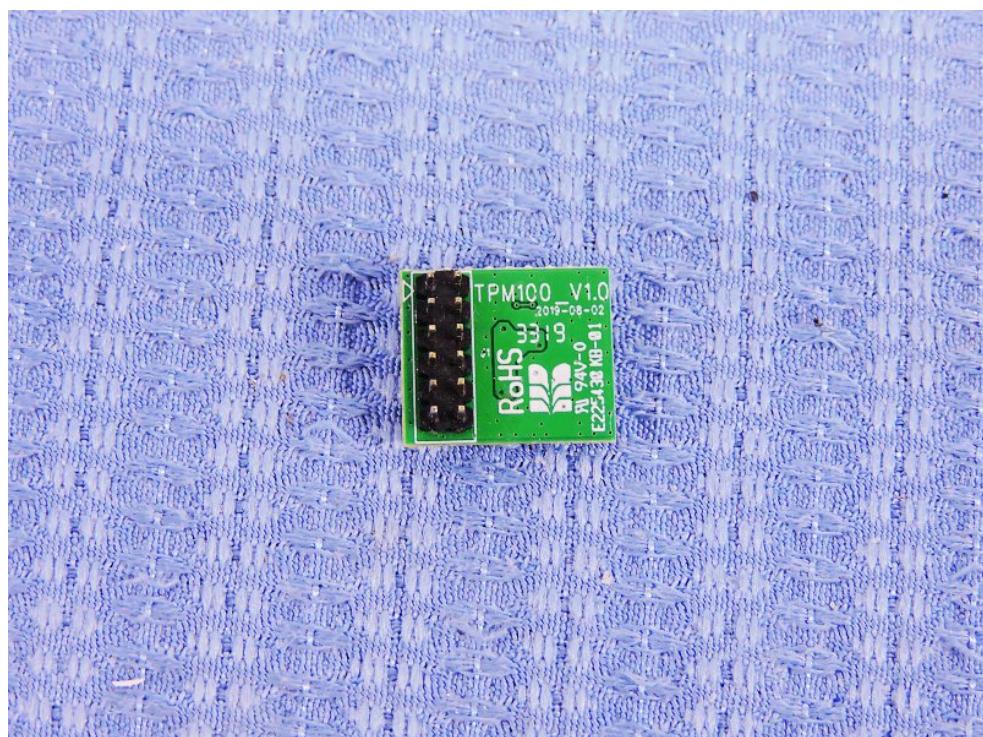
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Inside view



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