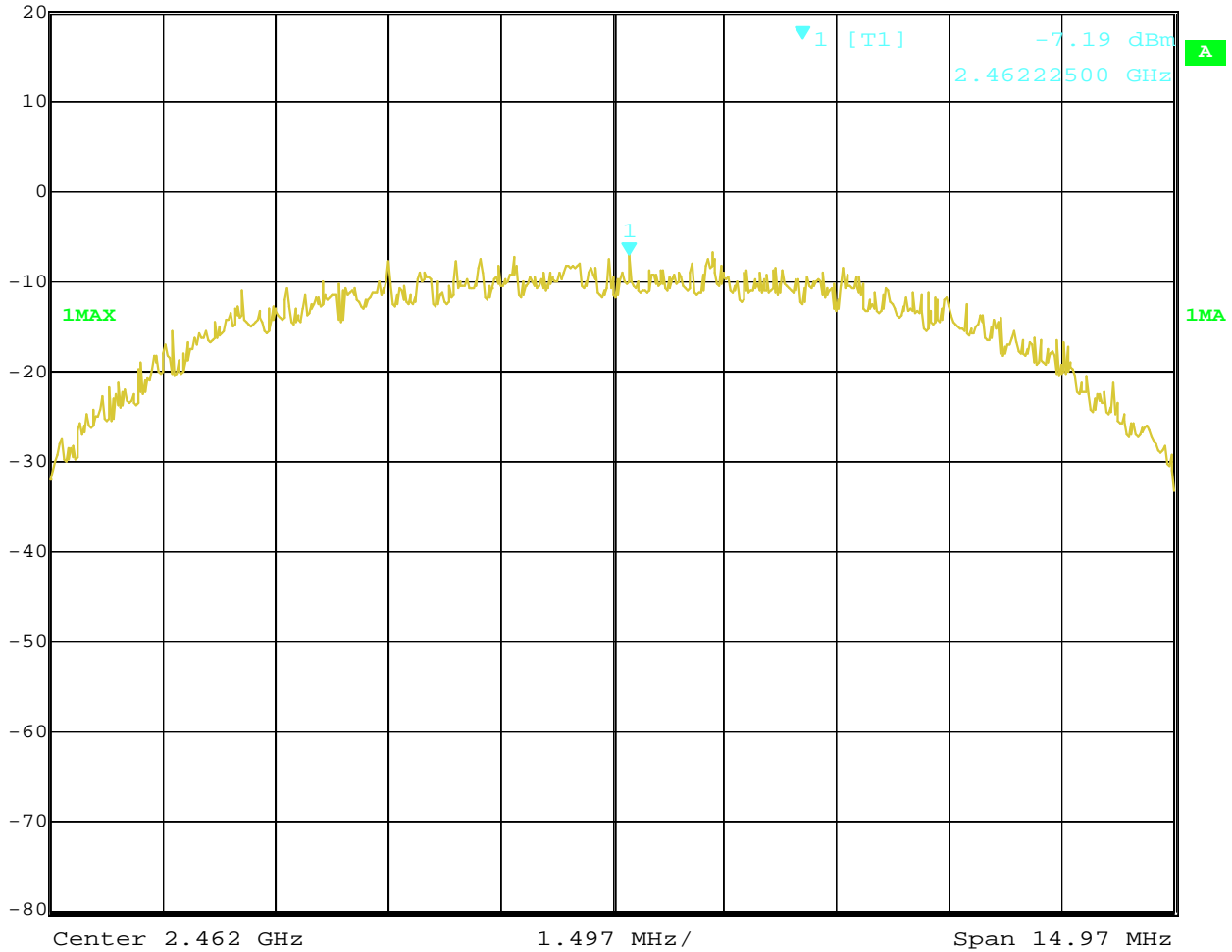




3. 802.11b at 11Mbps of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-7.19 dBm	VBW	30 kHz	
	20 dBm	2.46222500 GHz	SWT	380 ms	Unit dBm

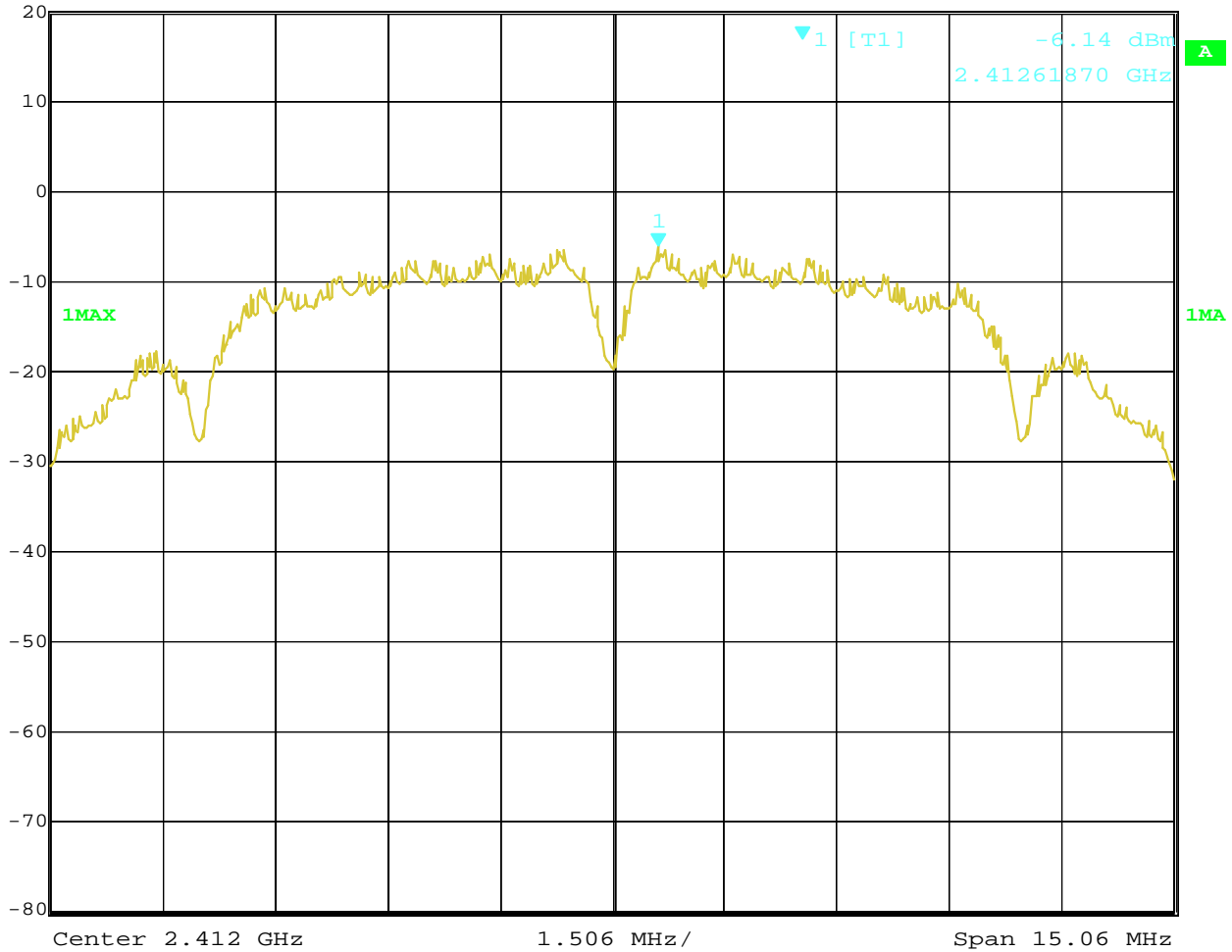


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4. 802.11b at 1Mbps of CH1

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.14 dBm	VBW	30 kHz	
	20 dBm	2.41261870 GHz	SWT	380 ms	Unit dBm

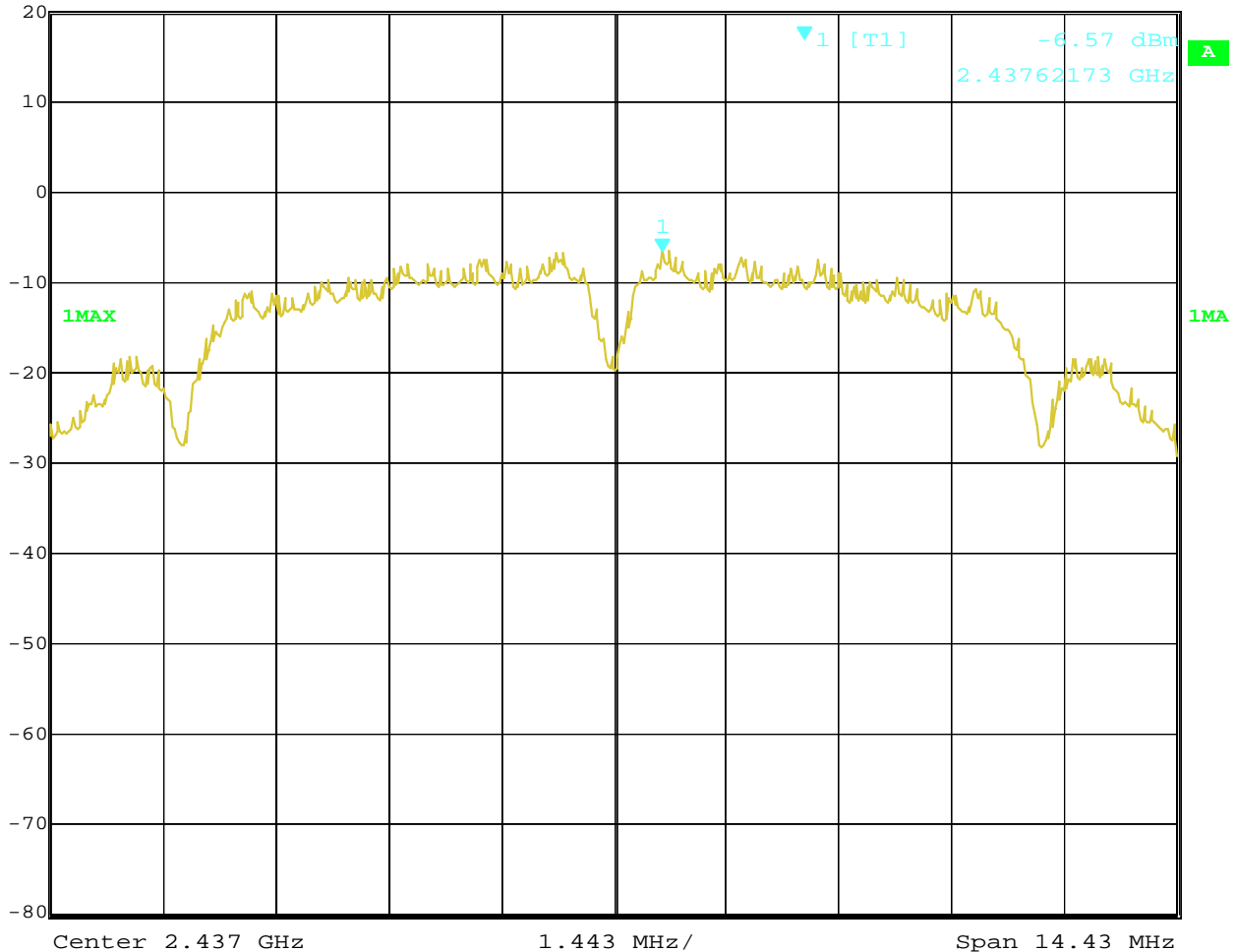


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5. 802.11b at 1Mbps of CH6

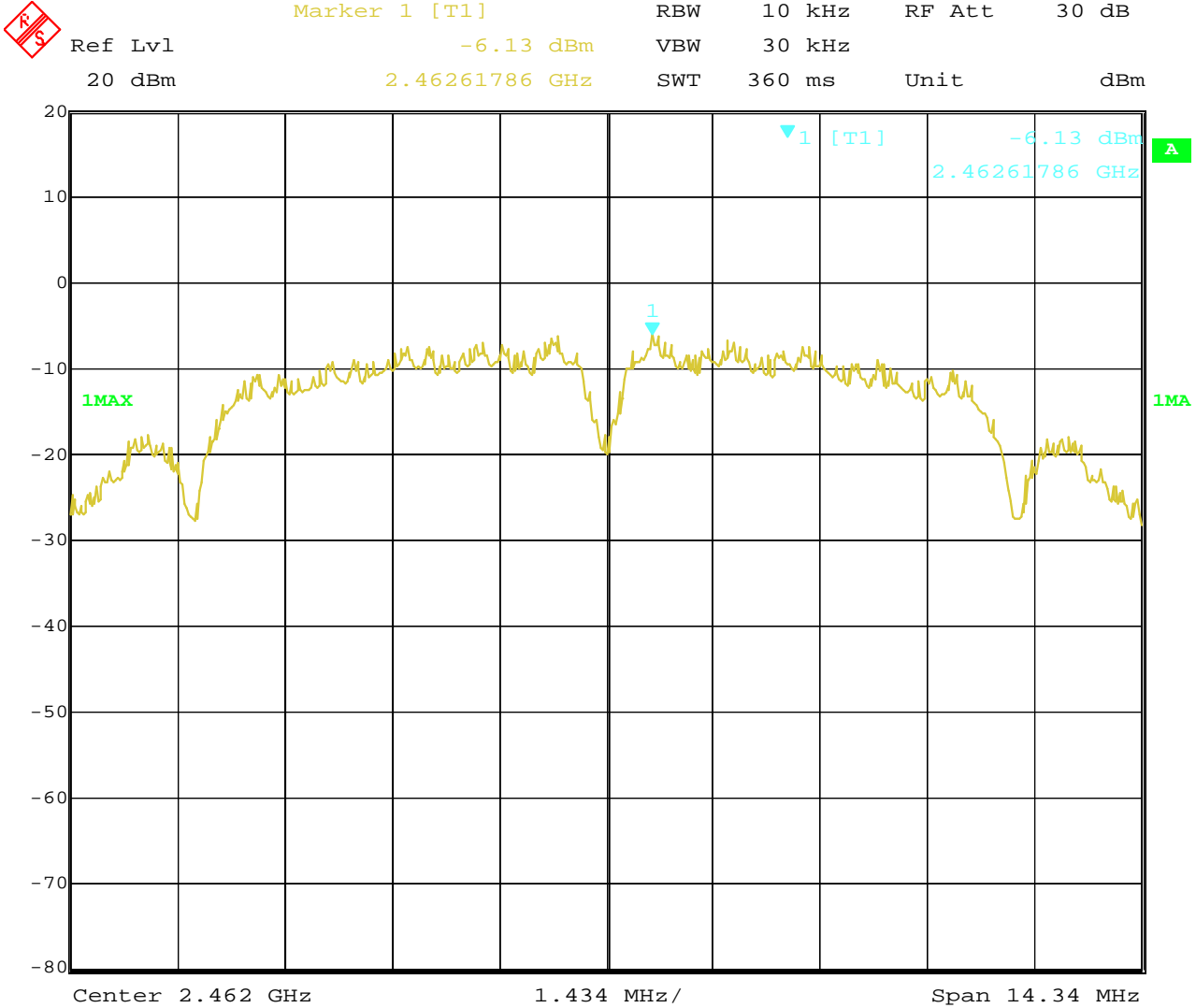
	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.57 dBm	VBW	30 kHz	
	20 dBm	2.43762173 GHz	SWT	370 ms	Unit dBm



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6. 802.11b at 1Mbps of CH11

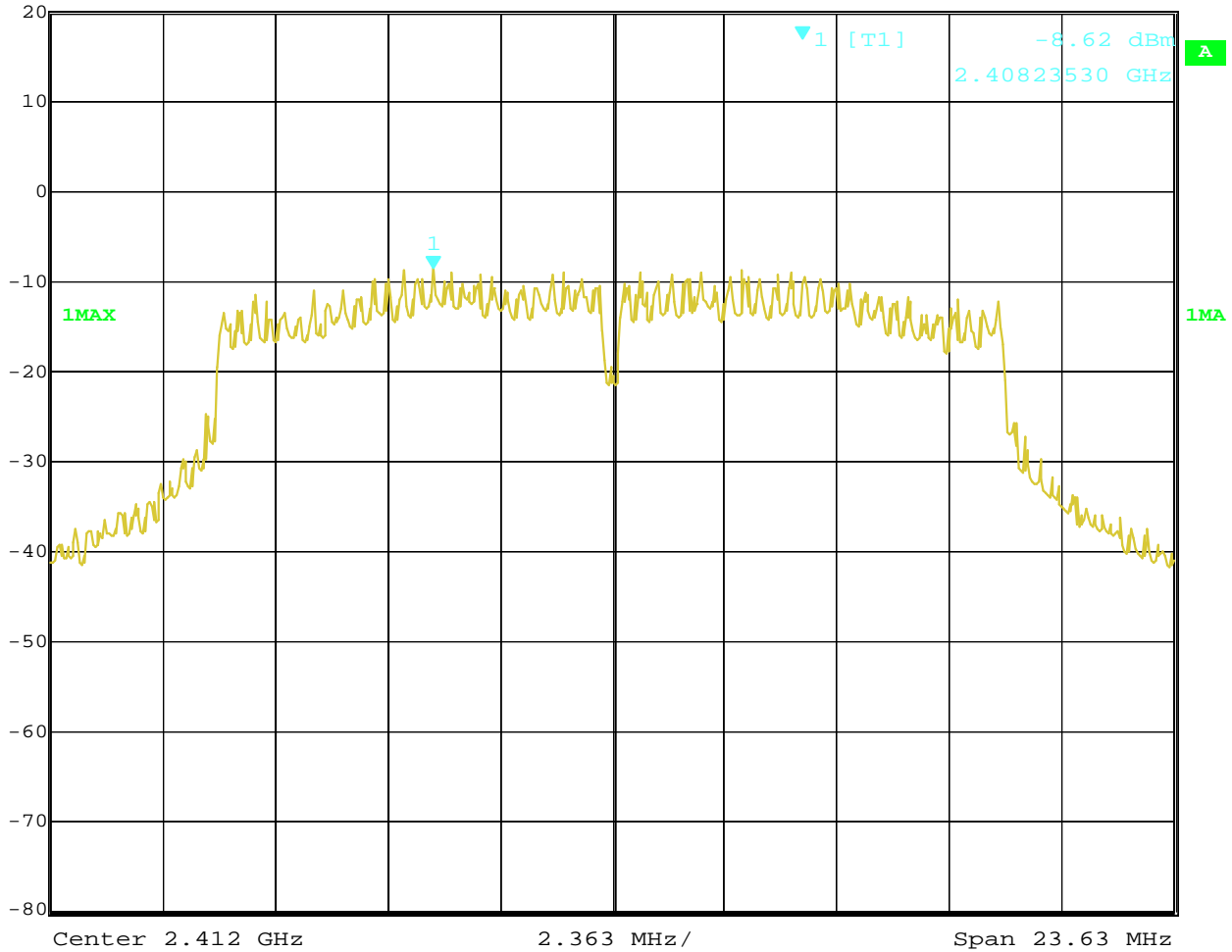


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7. 802.11g at 6Mbps of CH1

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-8.62 dBm	VBW	30 kHz	
	20 dBm	2.40823530 GHz	SWT	600 ms	Unit dBm



The report refers only to the sample tested and does not apply to the bulk.

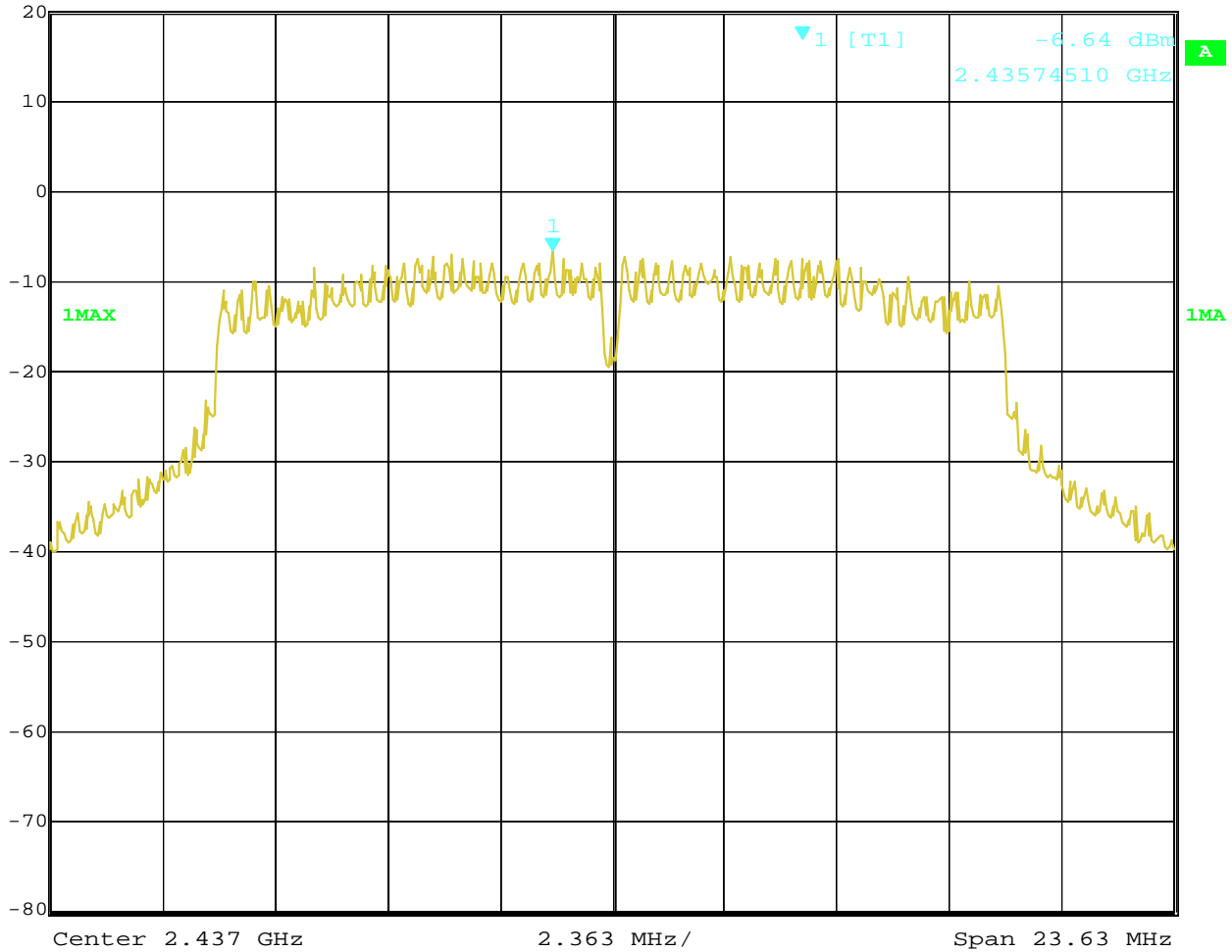
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8. 802.11g at 6Mbps of CH6

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.64 dBm	VBW	30 kHz	
	20 dBm	2.43574510 GHz	SWT	600 ms	Unit dBm

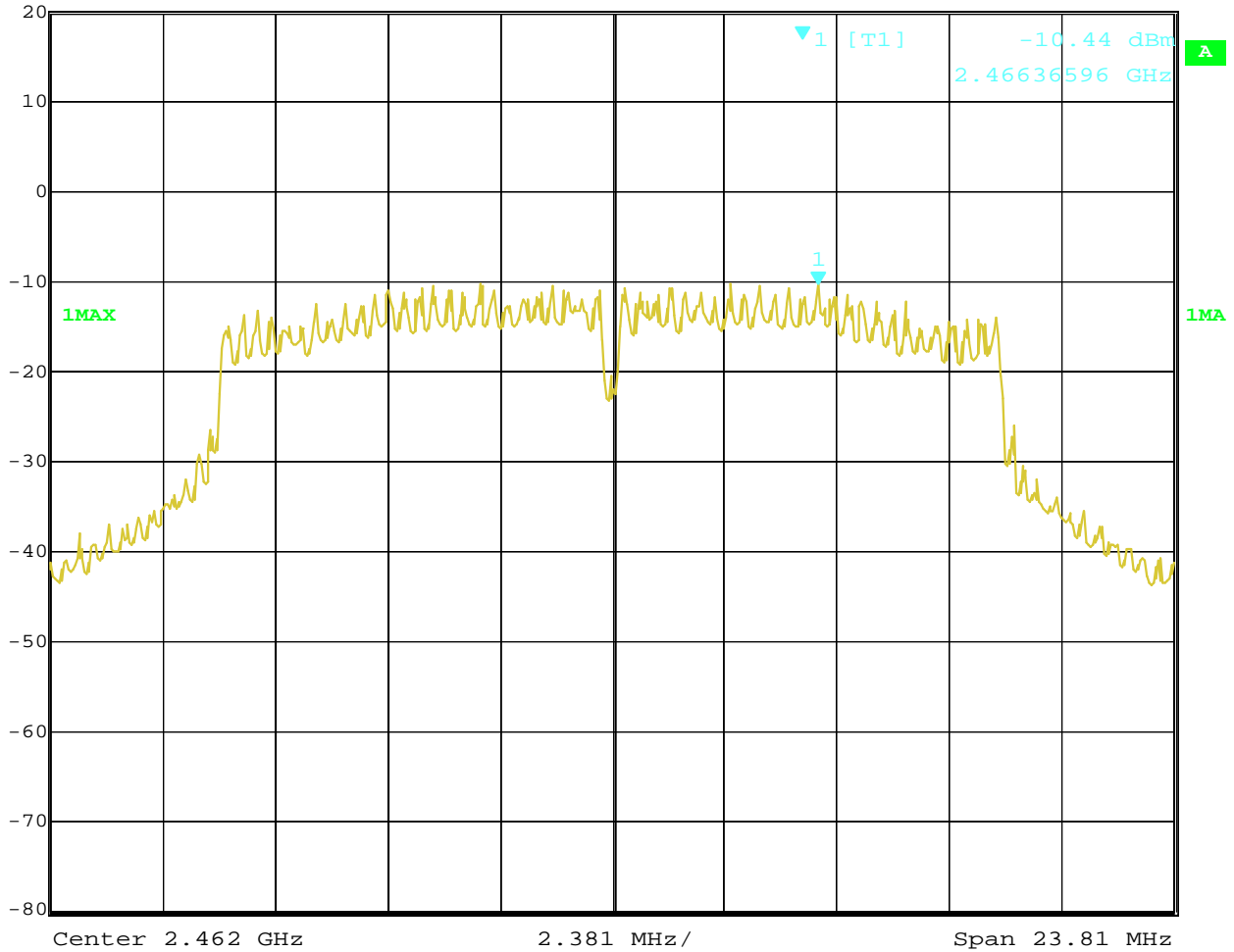


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9. 802.11g at 6Mbps of CH11

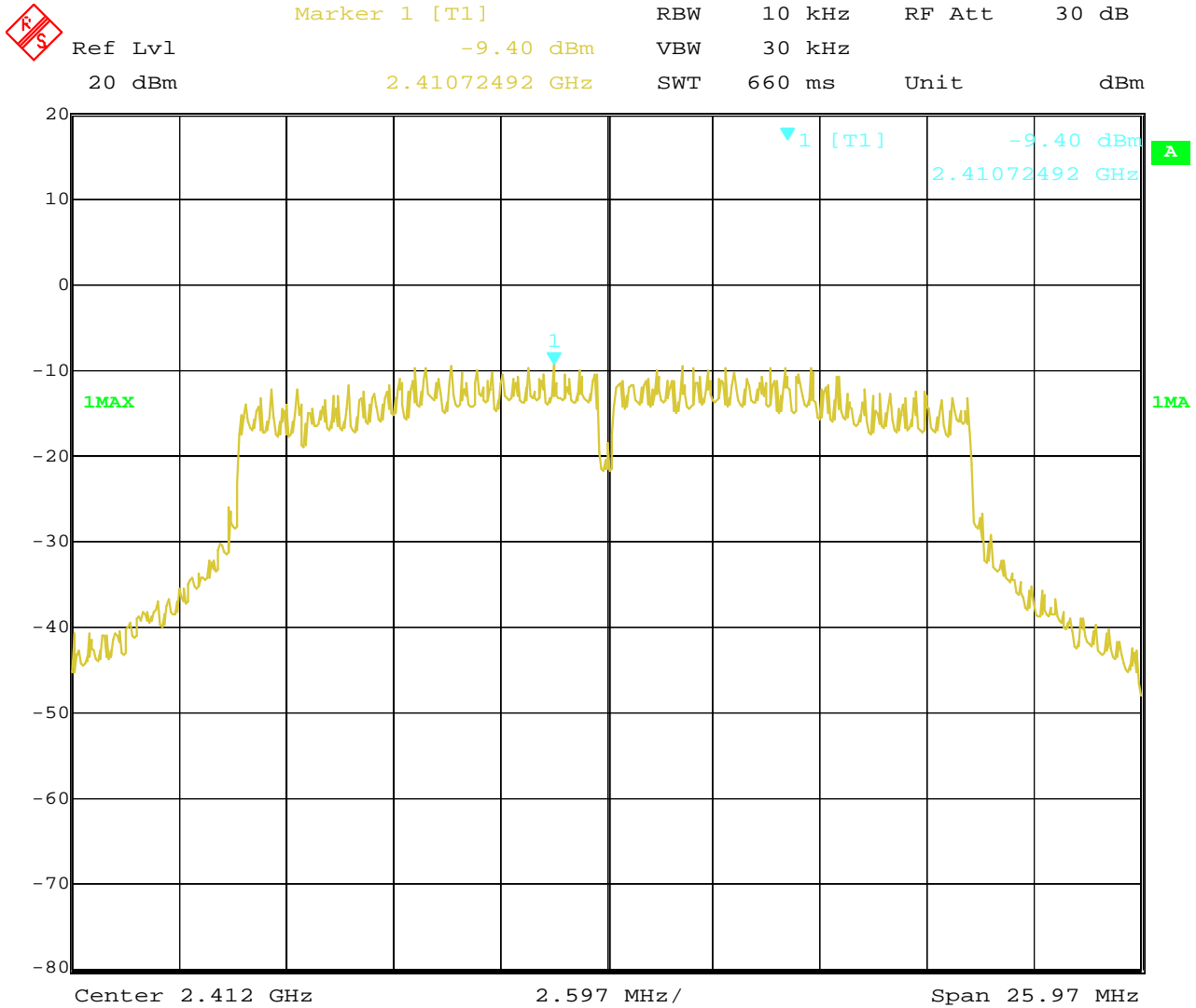
	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-10.44 dBm	VBW	30 kHz	
	20 dBm	2.46636596 GHz	SWT	600 ms	Unit dBm



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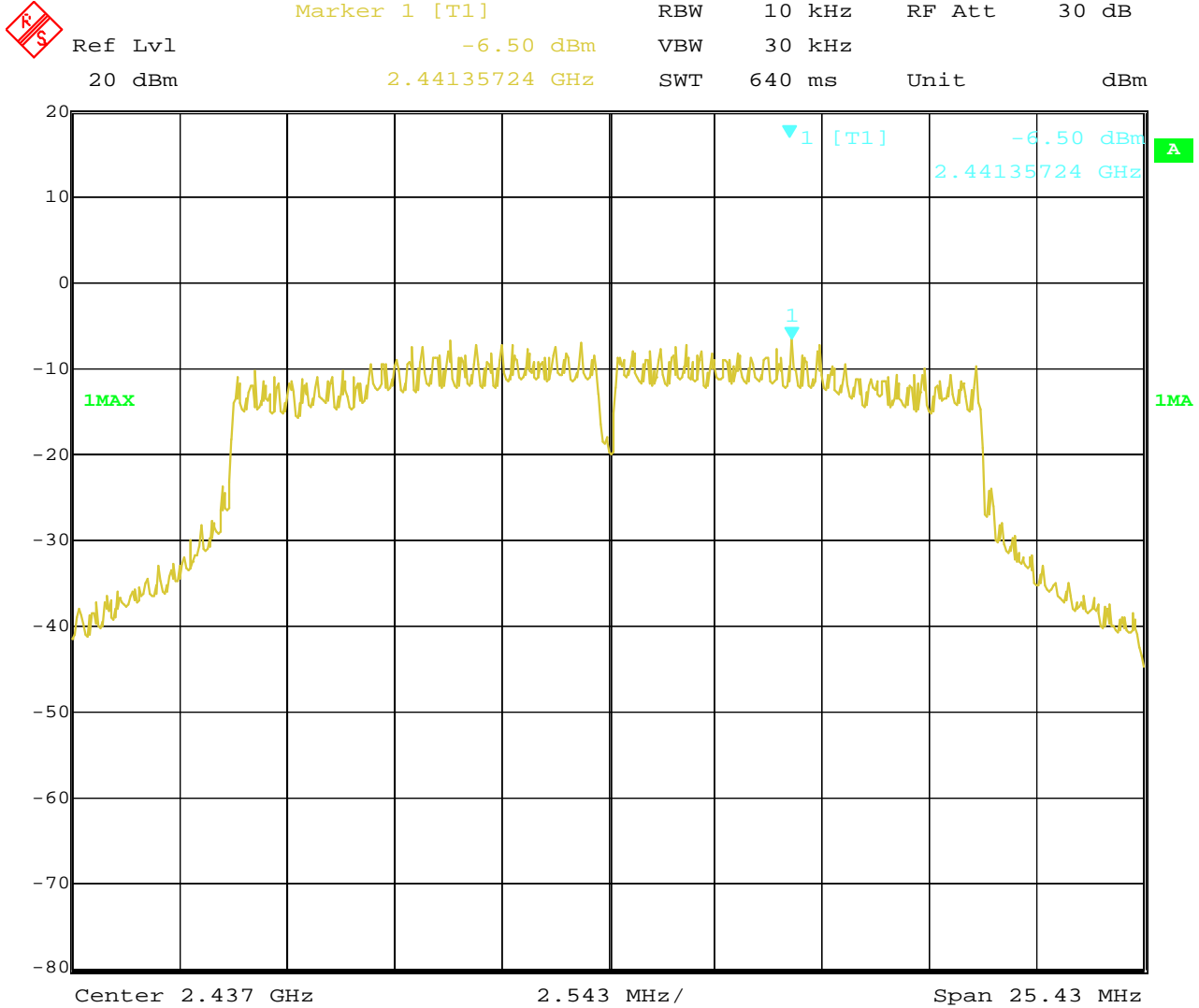
10. 802.11n at HT20 of CH01



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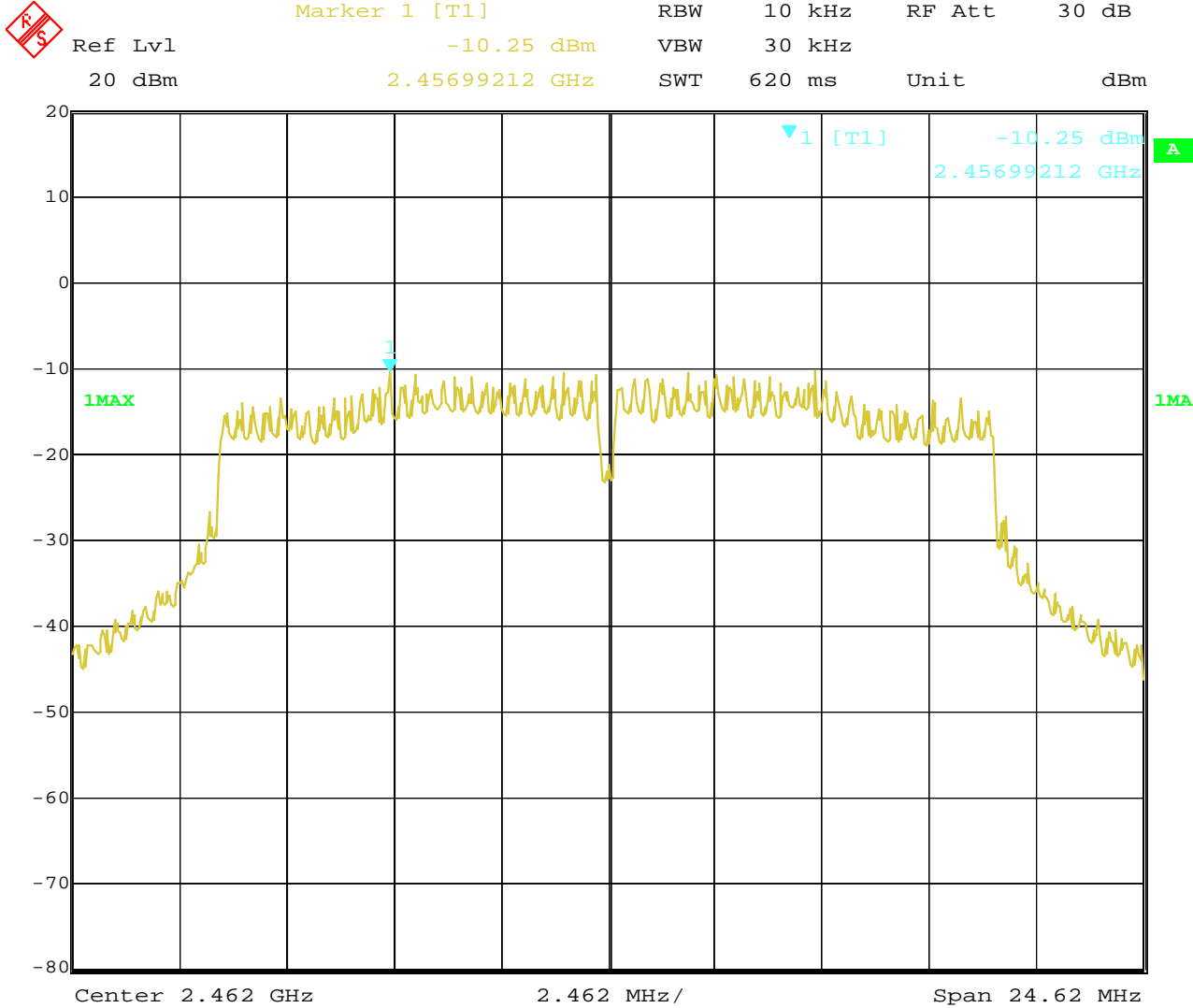
11. 802.11n at HT20 of CH06



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12. 802.11n at HT20 of CH11

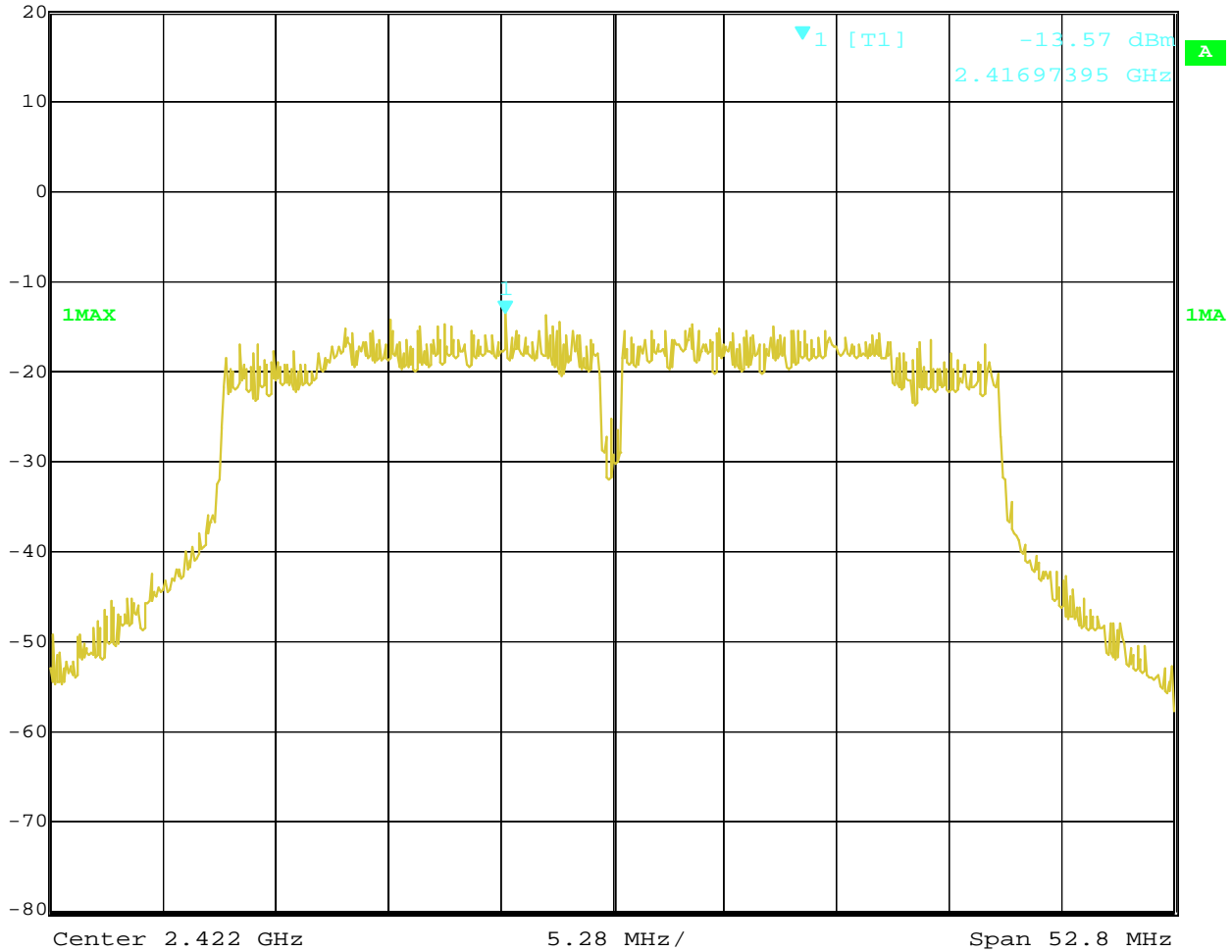


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13. 802.11n at HT40 of CH01

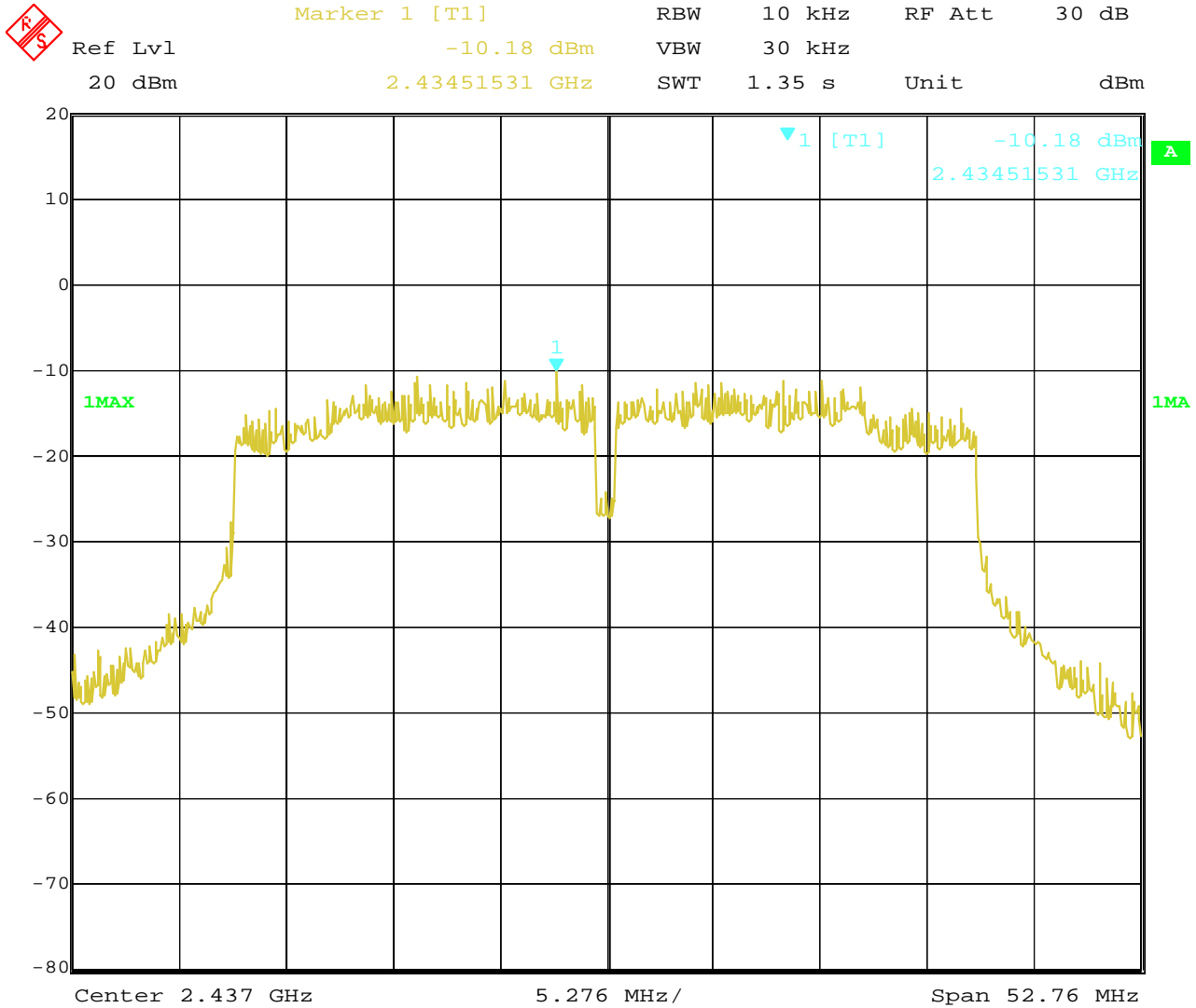
	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-13.57 dBm	VBW	30 kHz	
	20 dBm	2.41697395 GHz	SWT	1.35 s	Unit dBm



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14. 802.11n at HT40 of CH04

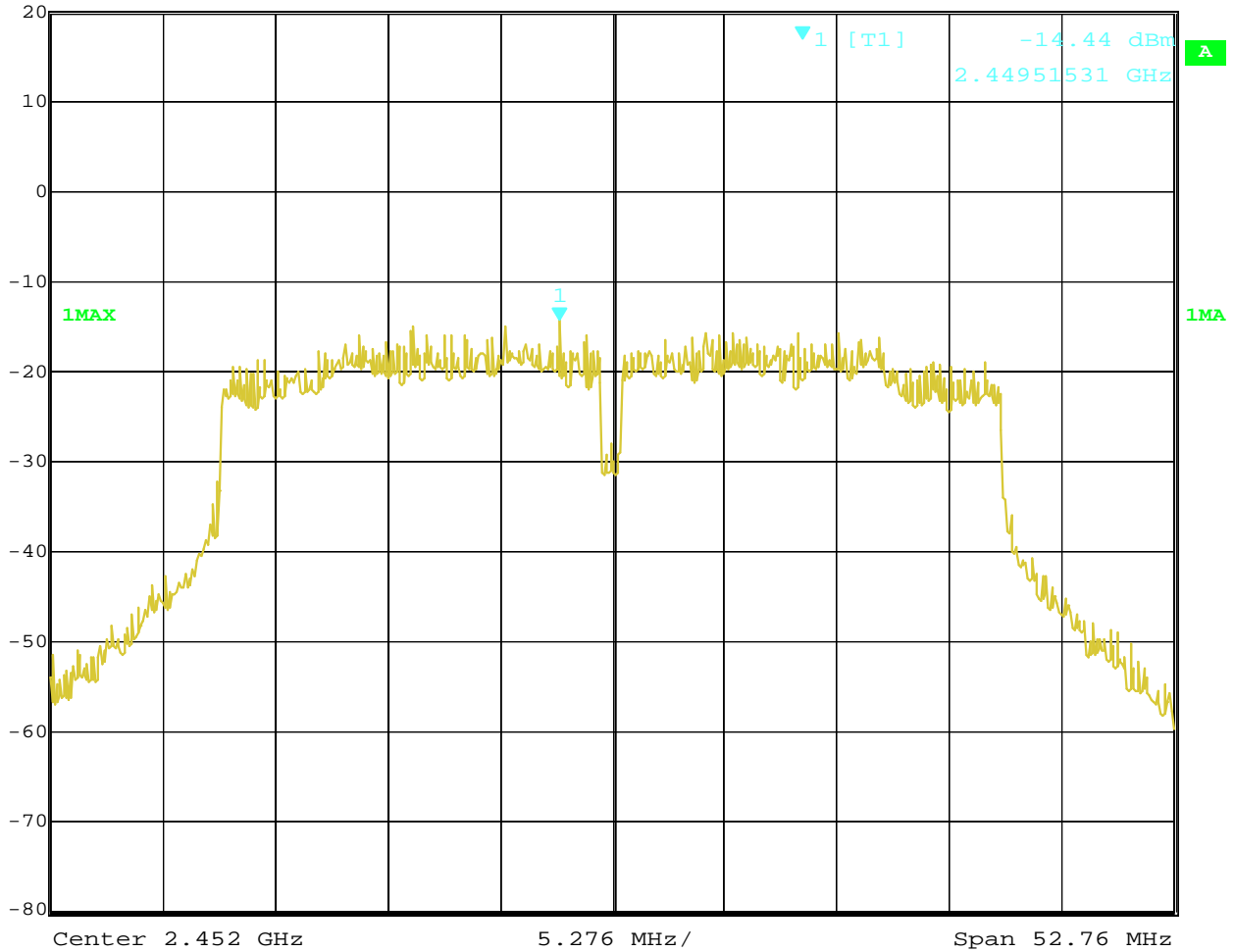


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15. 802.11n at HT40 of CH07

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-14.44 dBm	VBW	30 kHz	
	20 dBm	2.44951531 GHz	SWT	1.35 s	Unit dBm

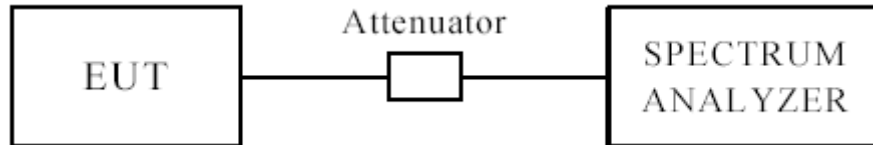


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10 Out of Band Measurement

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 $\text{RBW}=\text{VBW}=1\text{MHz}$ and PK detector. AV value with $\text{RBW}=1\text{MHz}$, $\text{VBW}=3\text{MHz}$ and RMS detector)

For bandage test, the spectrum set as follows: $\text{RBW}=100\text{ kHz}$, $\text{VBW}=300\text{ kHz}$. 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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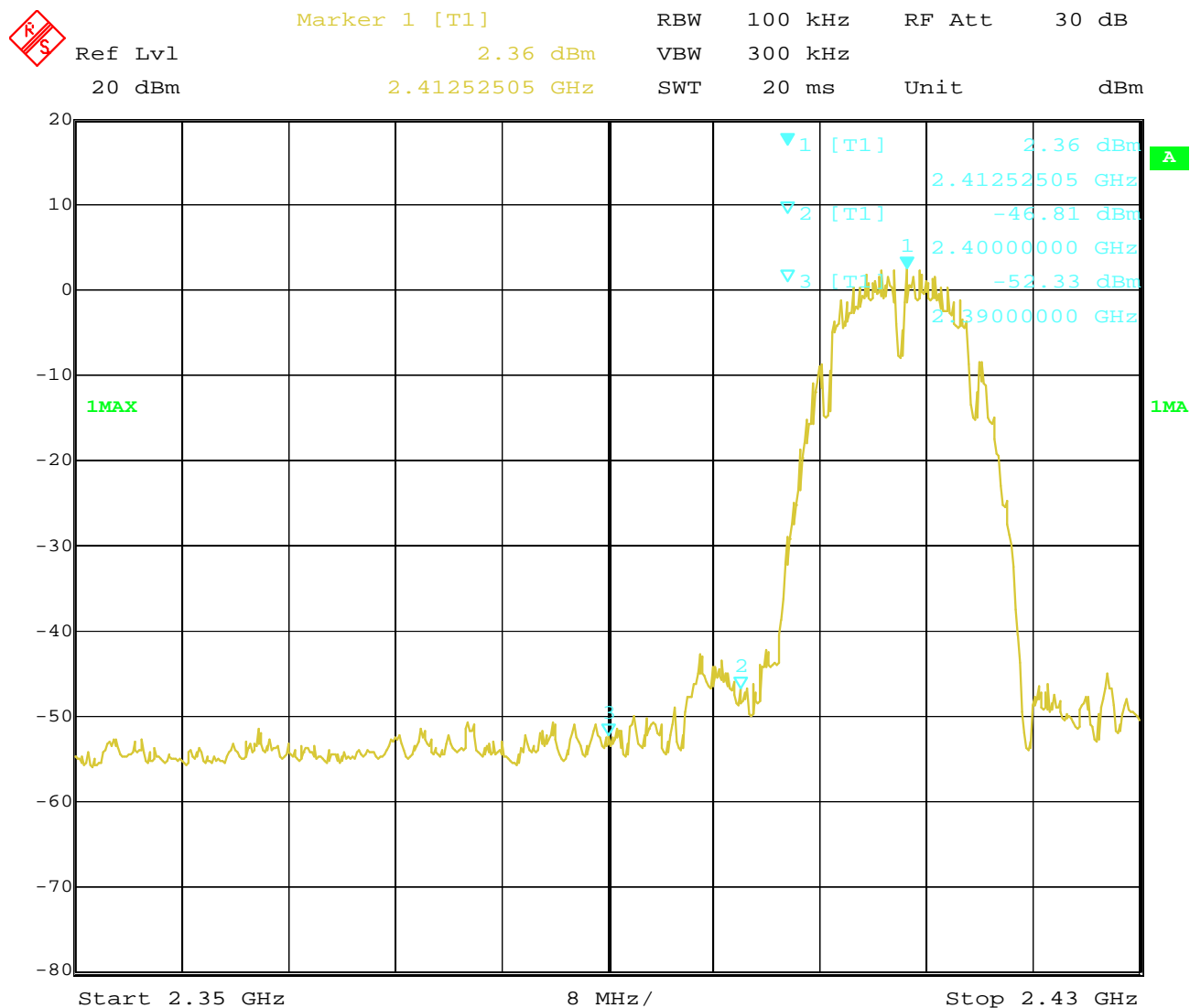
For 802.11b mode

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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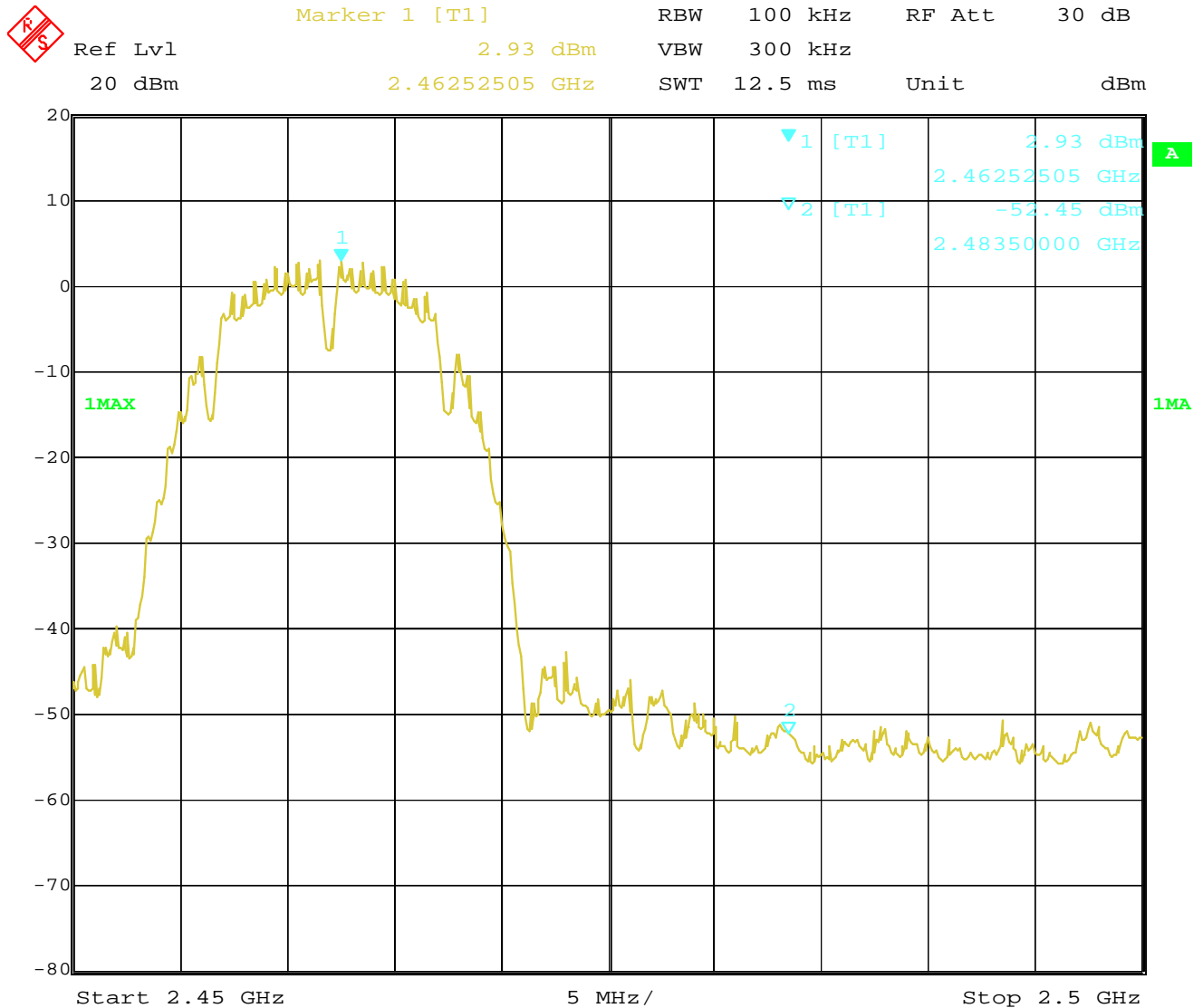


CH11 at 1Mbps

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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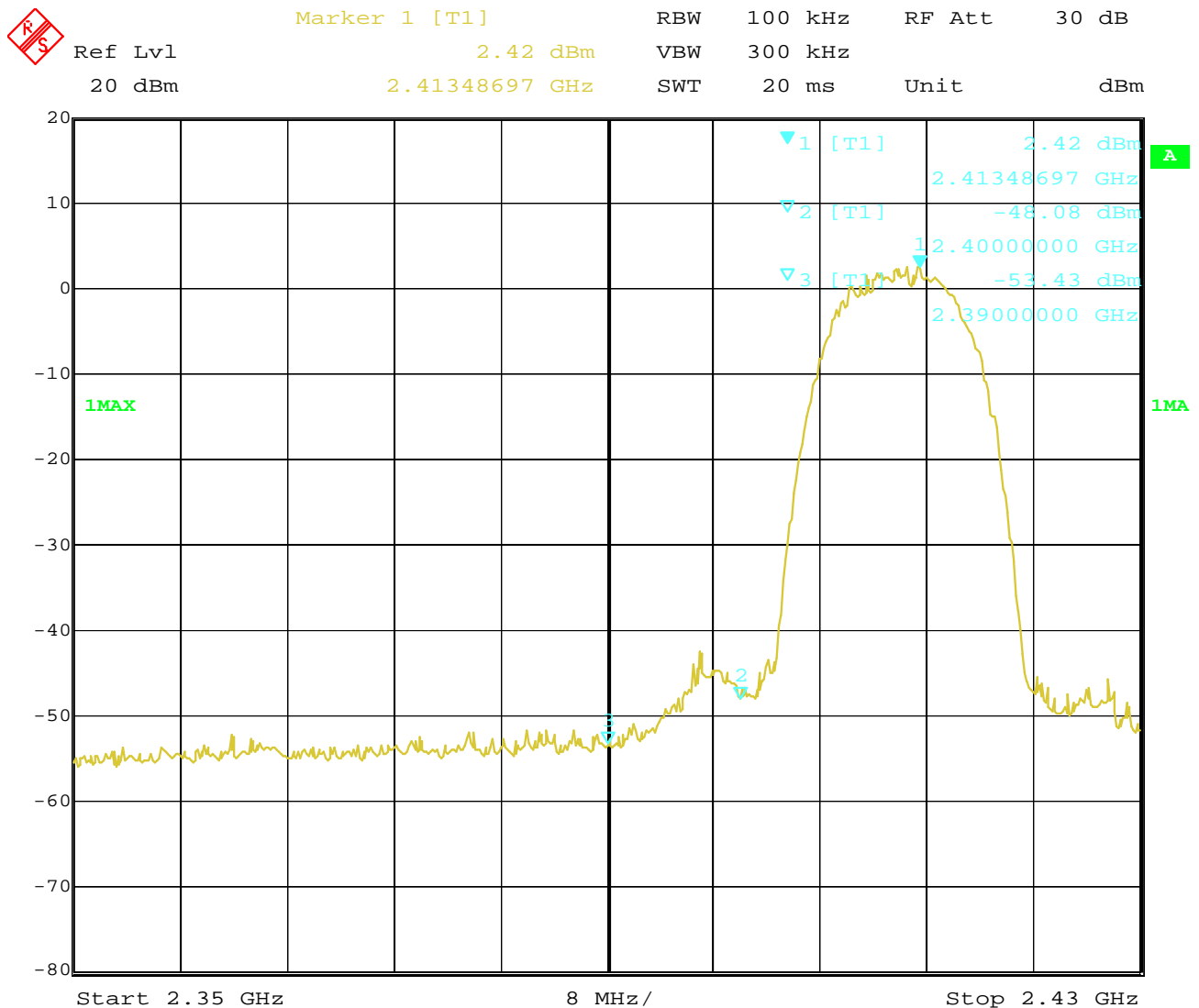
For 802.11b mode

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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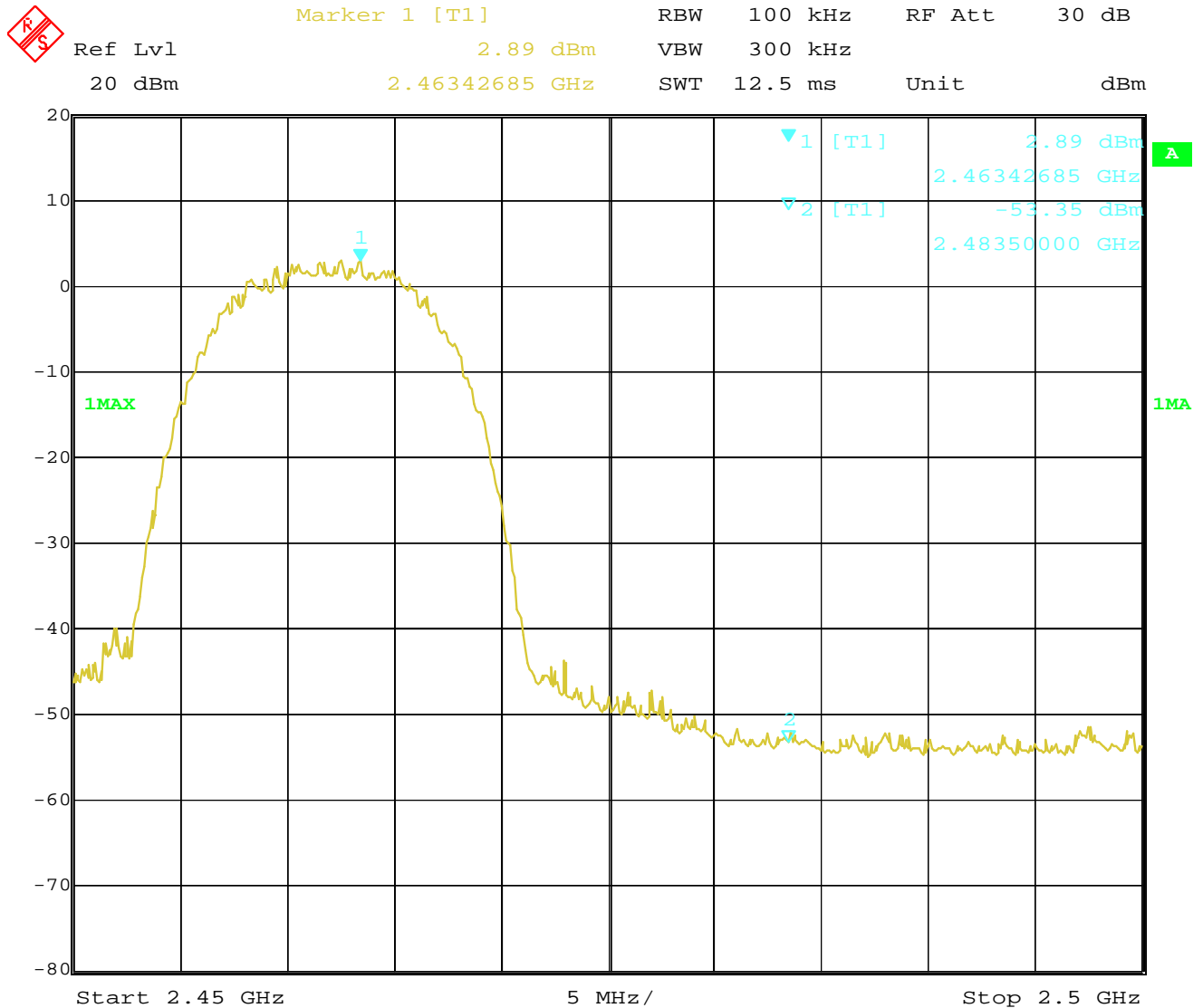


CH11 at 11Mbps

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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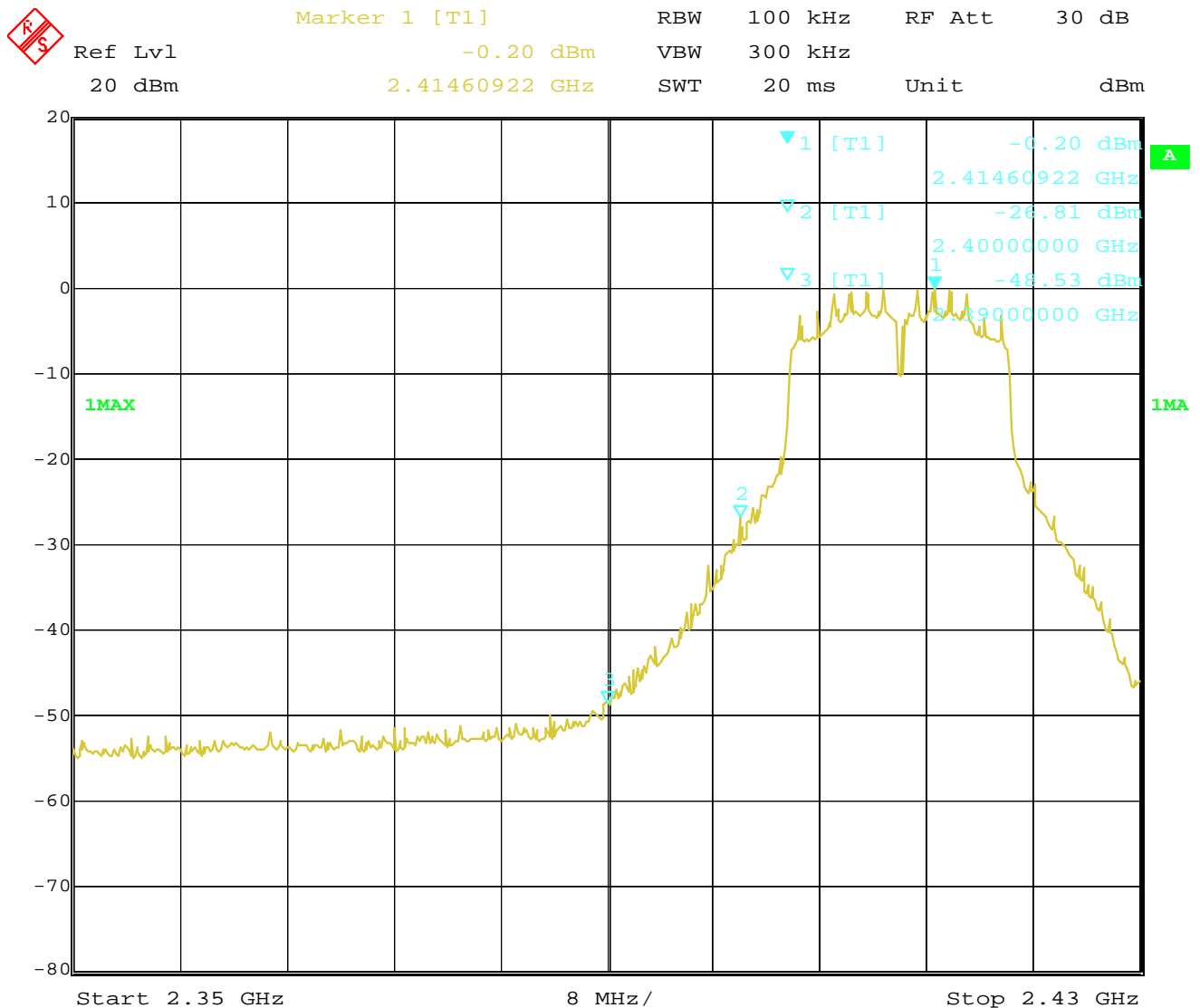
For 802.11g mode

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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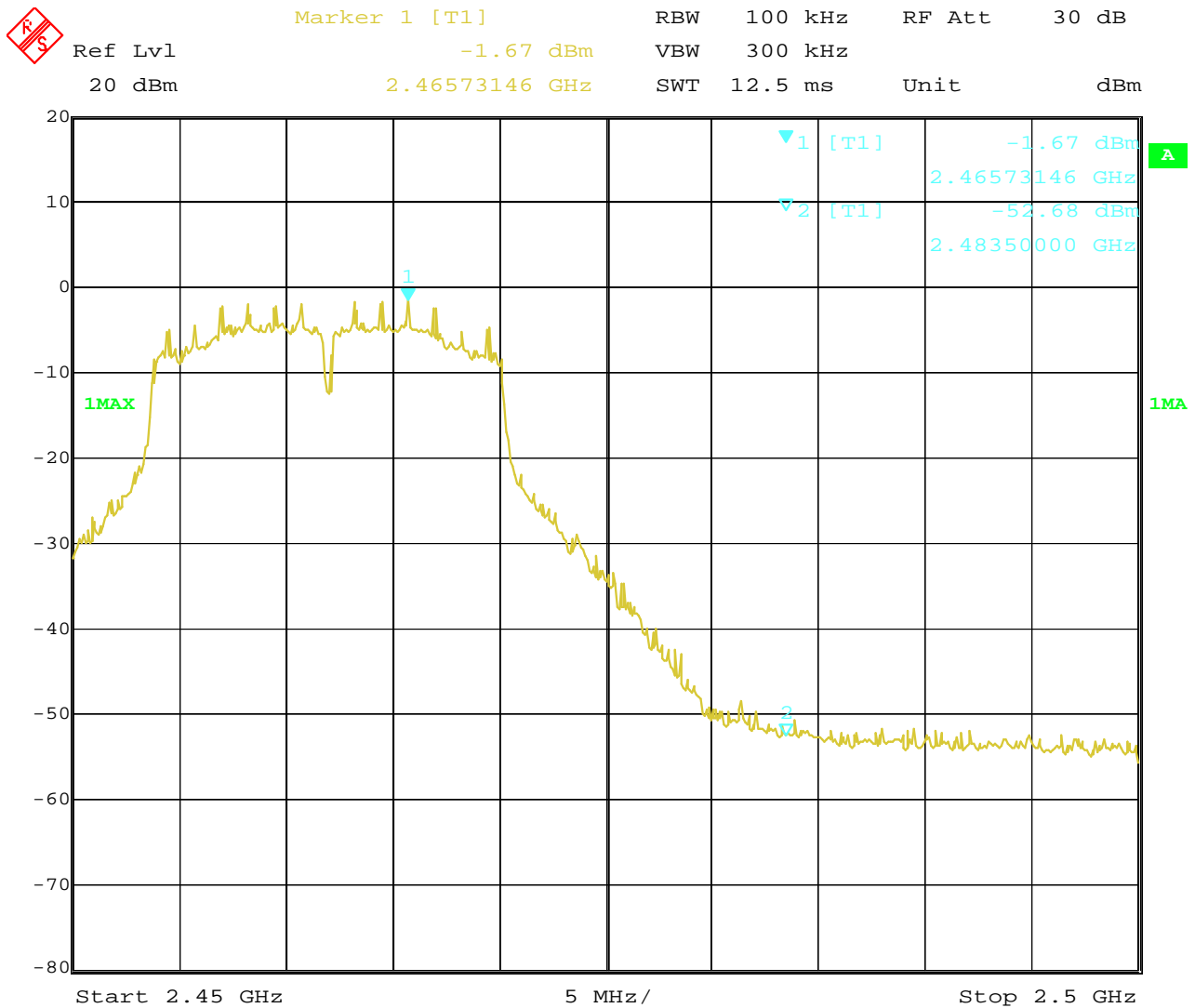


CH11 at 6Mbps

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:



Marker 1 [T1]

RBW 100 kHz RF Att 30 dB

Ref Lvl -0.12 dBm

VBW 300 kHz

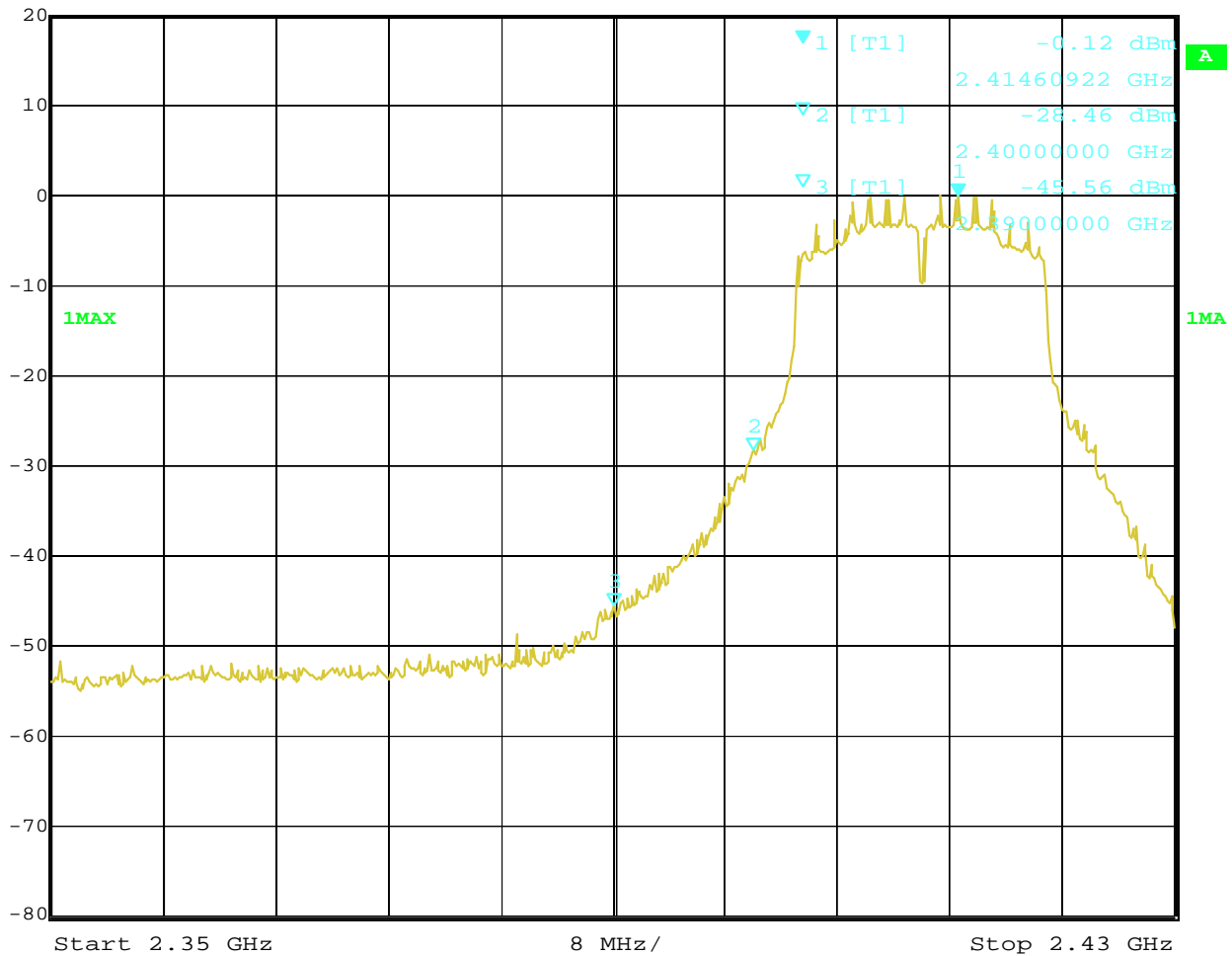
20 dBm

2.41460922 GHz

SWT 20 ms

Unit

dBm



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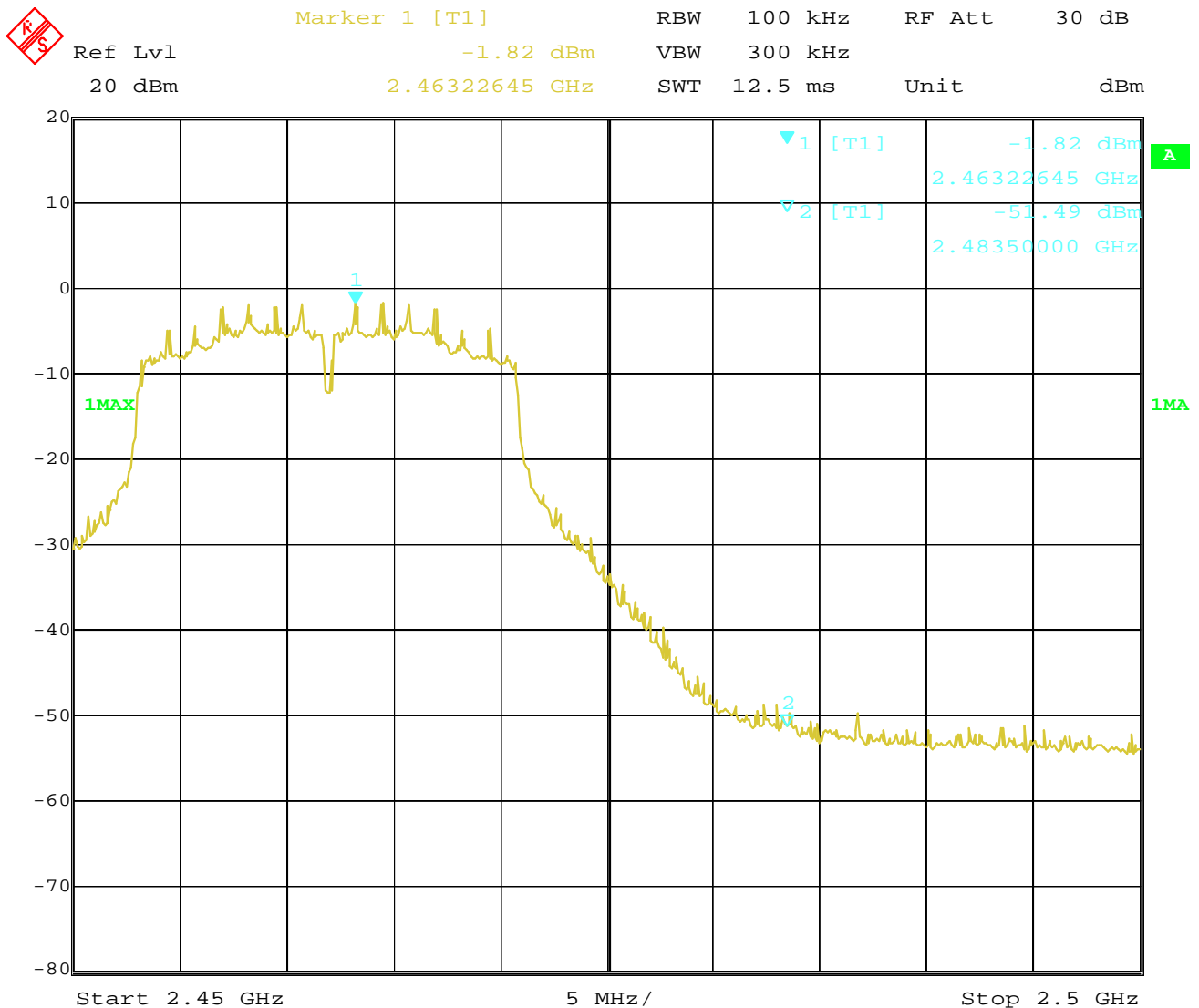


CH11 at mcs0

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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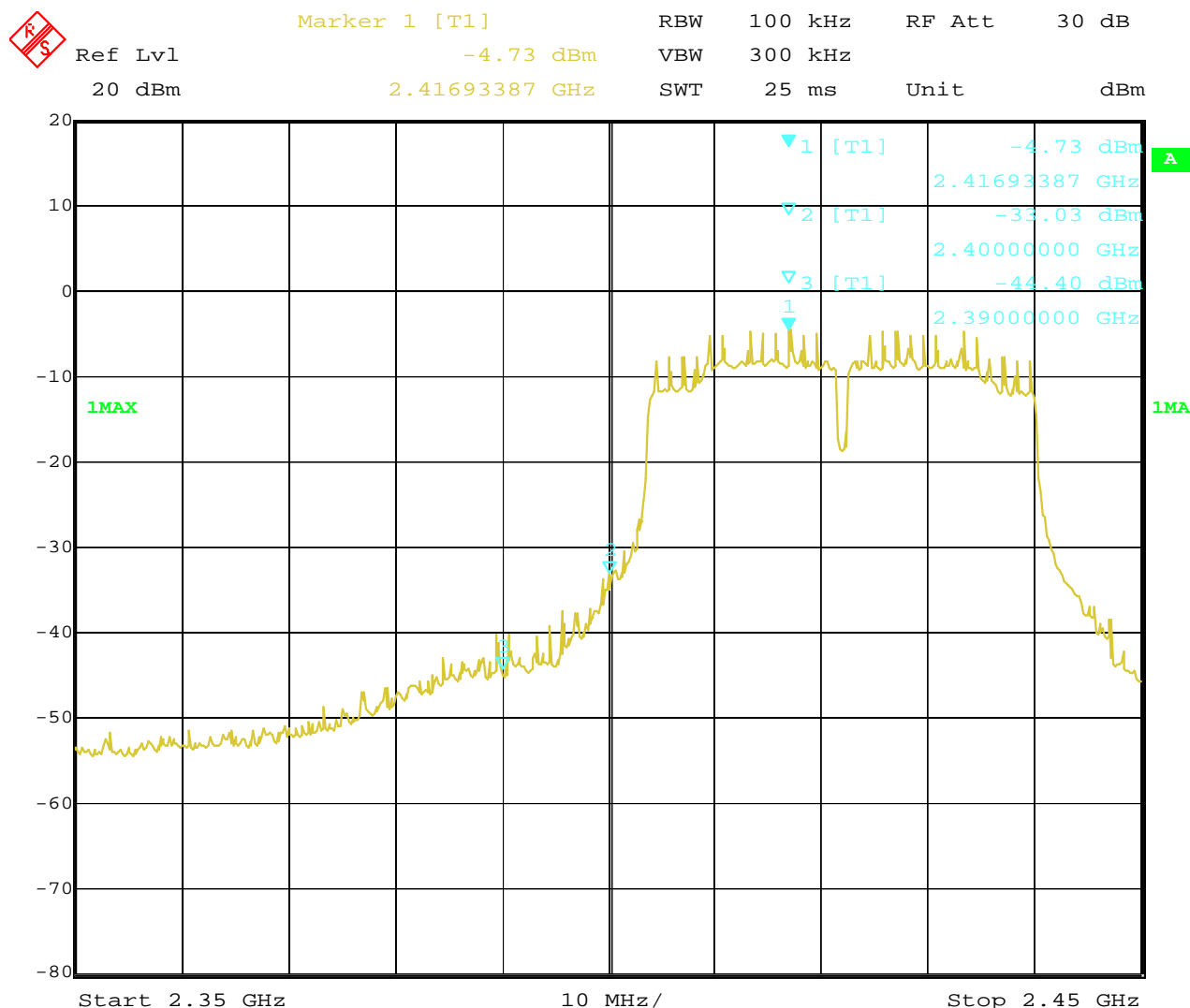
For 802.11n (HT40) mode

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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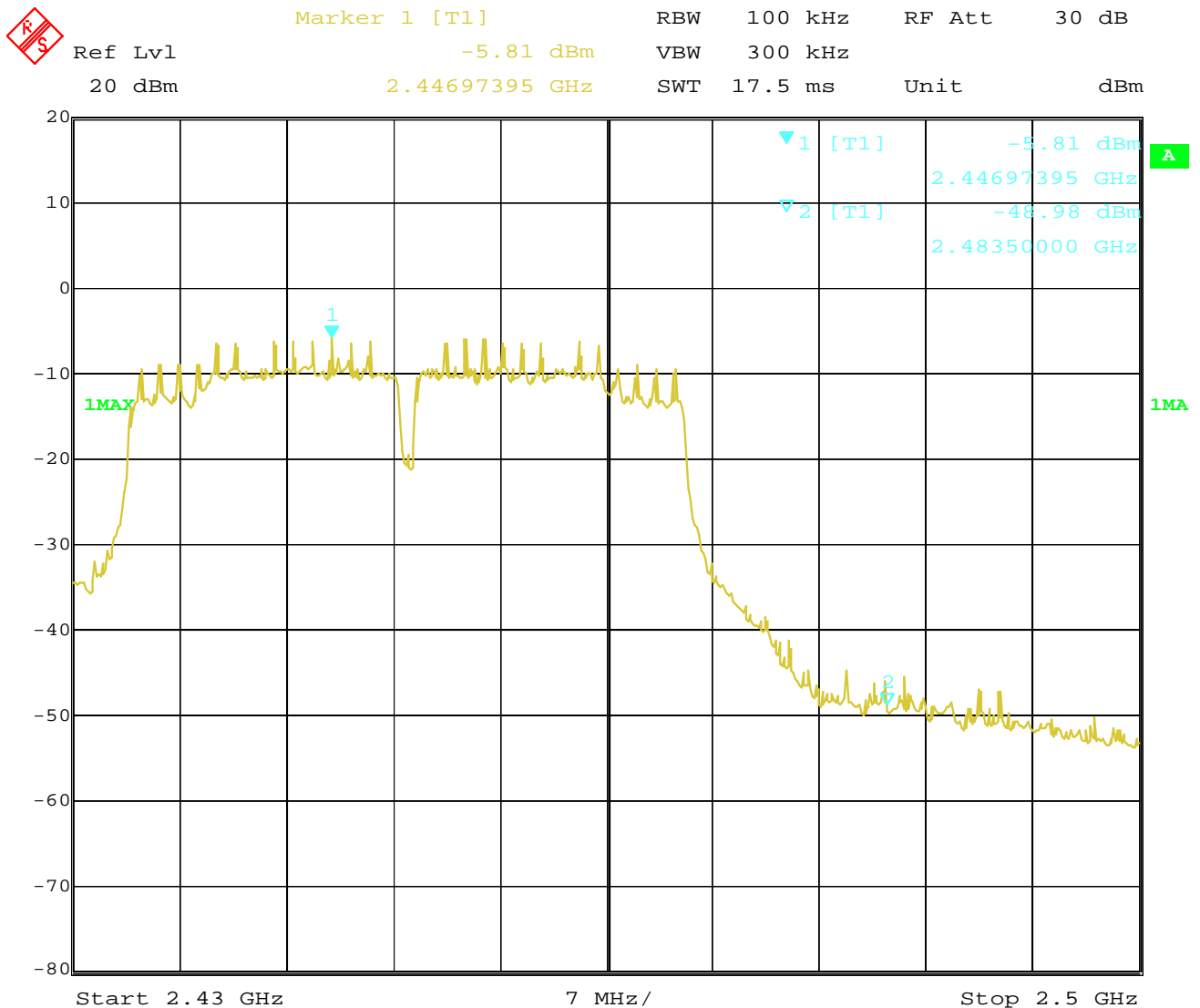


CH09 at msc0

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 μ V/m)	36.85	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11b mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	35.85	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ 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 μ V/m)	41.14	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	37.27	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ 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 μ V/m)	46.29	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11g mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	45.38	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ 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 μ V/m)	47.55	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	46.23	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ 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 (dBμV/m)	49.53	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dBμV/m)	47.85	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/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 (dBμV/m)	49.77	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	48.16	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/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 μ V/m)	50.86	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT40 mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	48.71	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ 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 μ V/m)	52.69	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT40 mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	51.58	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ 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 amount 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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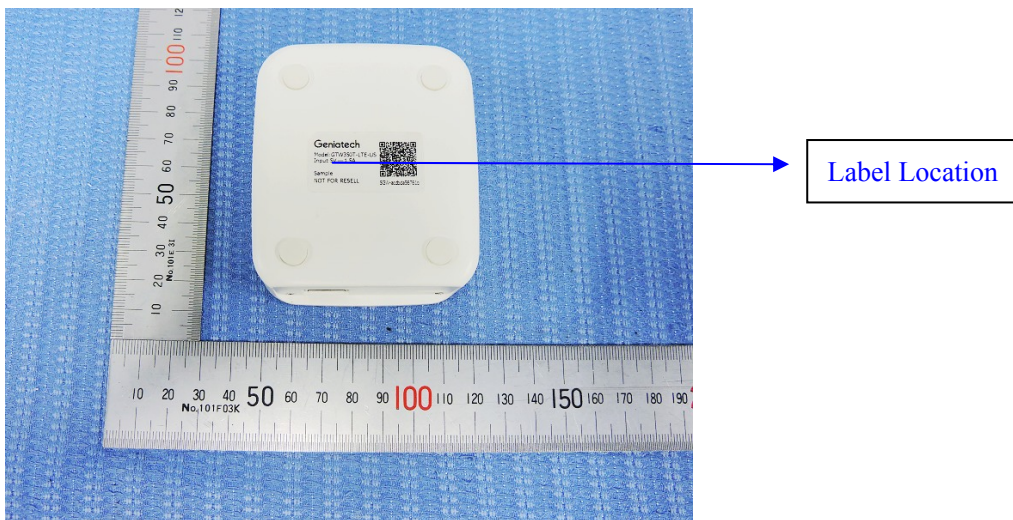
12.0 FCC ID Label

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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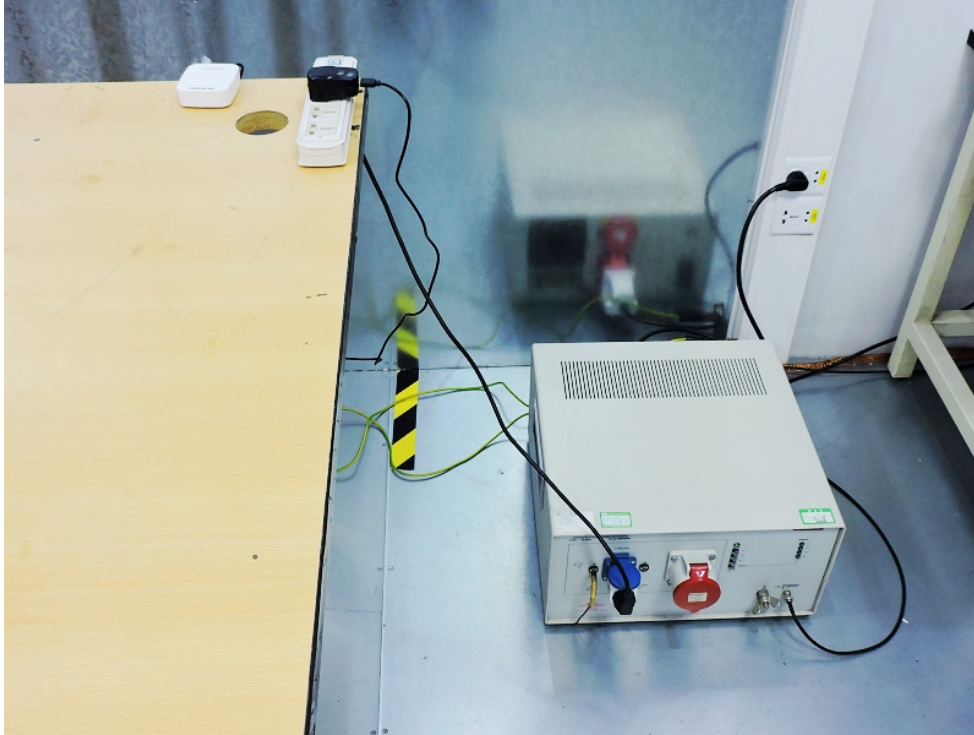
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13.0 Photo of testing

Conducted Emission Test Setup:



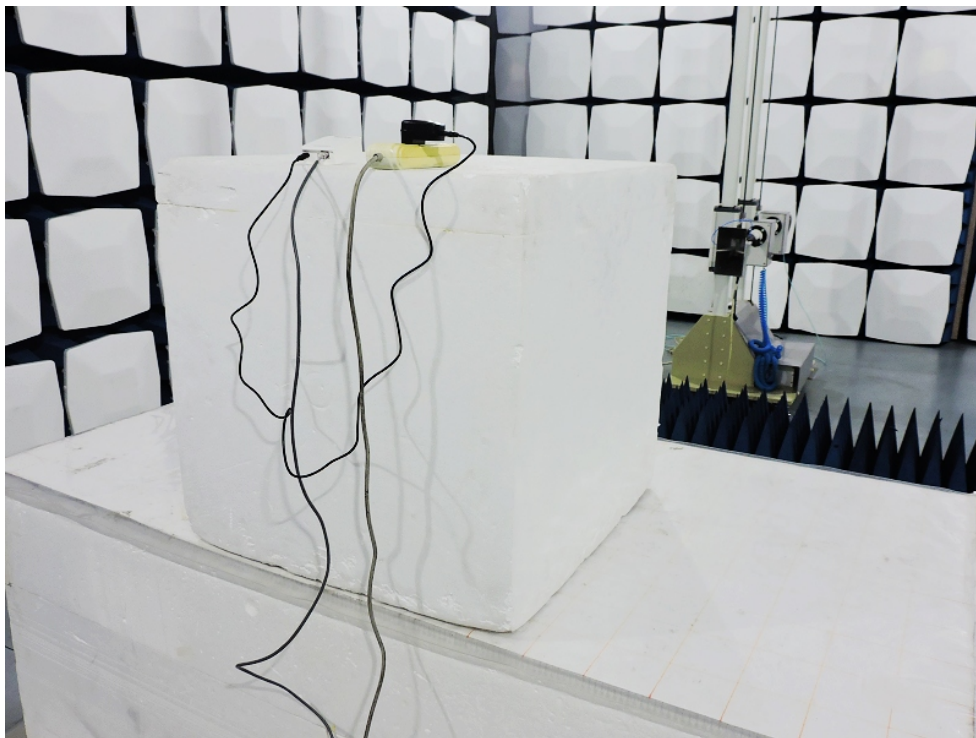
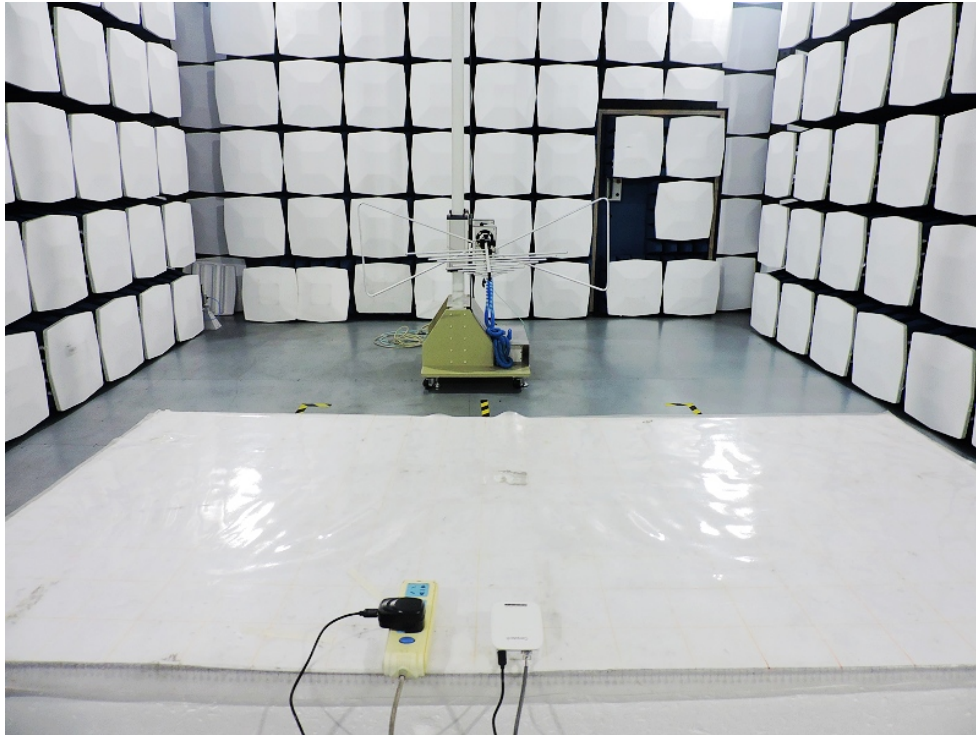
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Radiated Emission Test Setup:

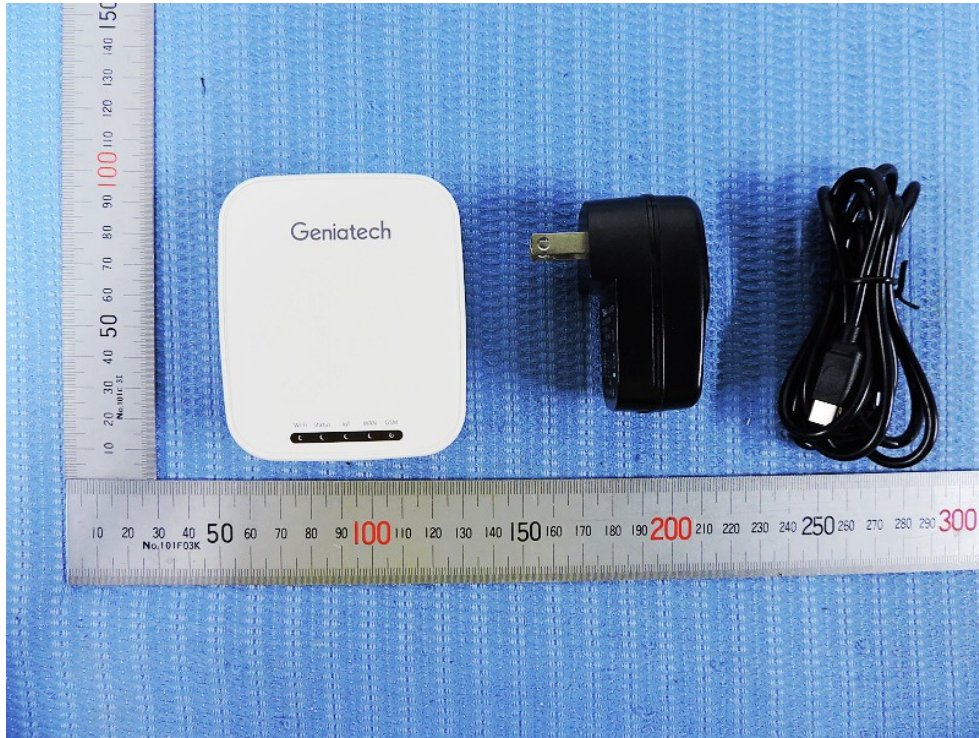


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Photographs – EUT

Outside View



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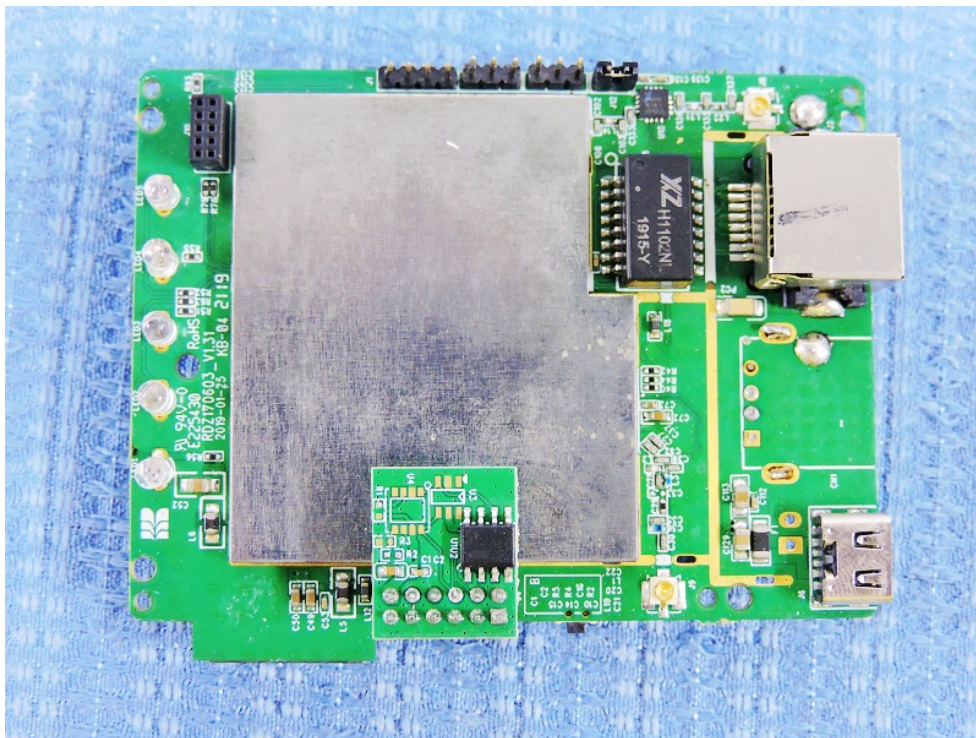
Outside View



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Inside view



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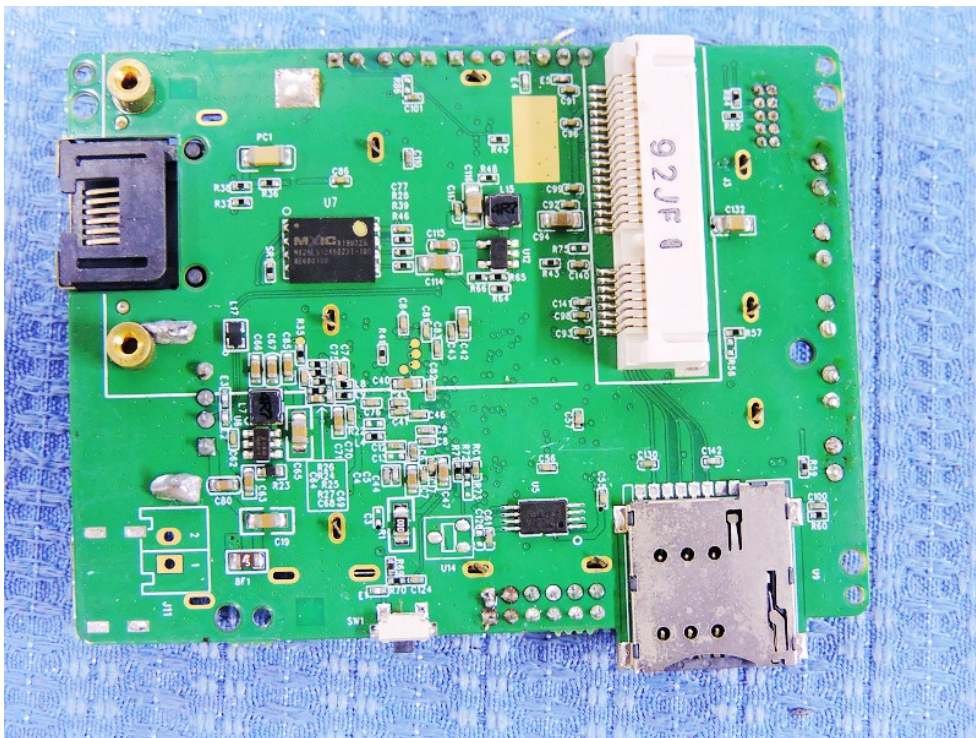
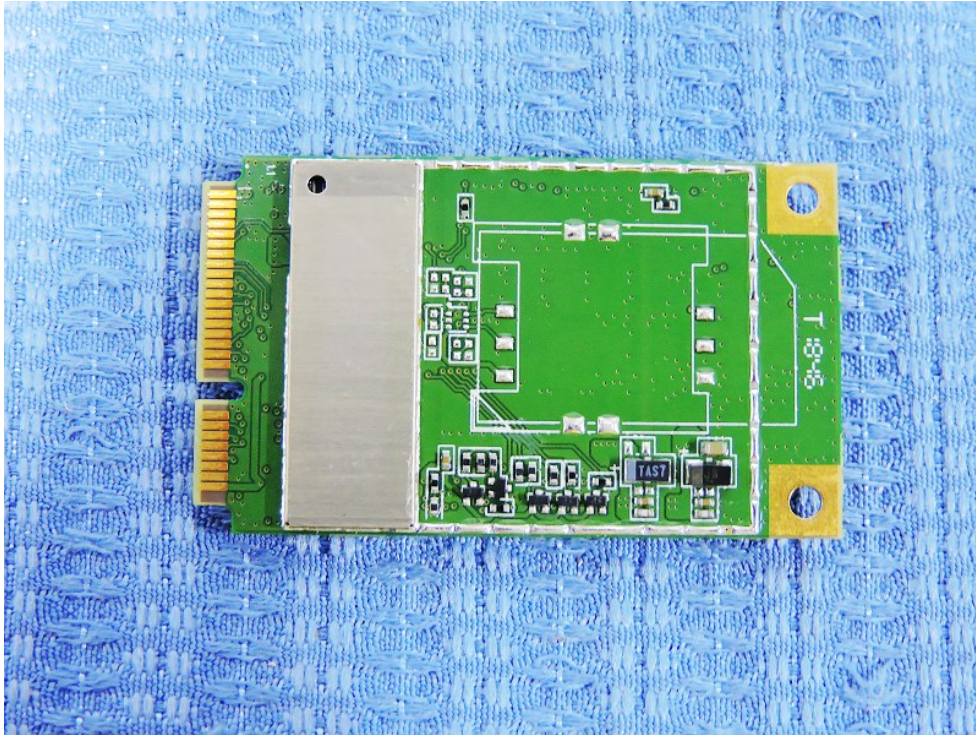
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Inside view



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Inside view

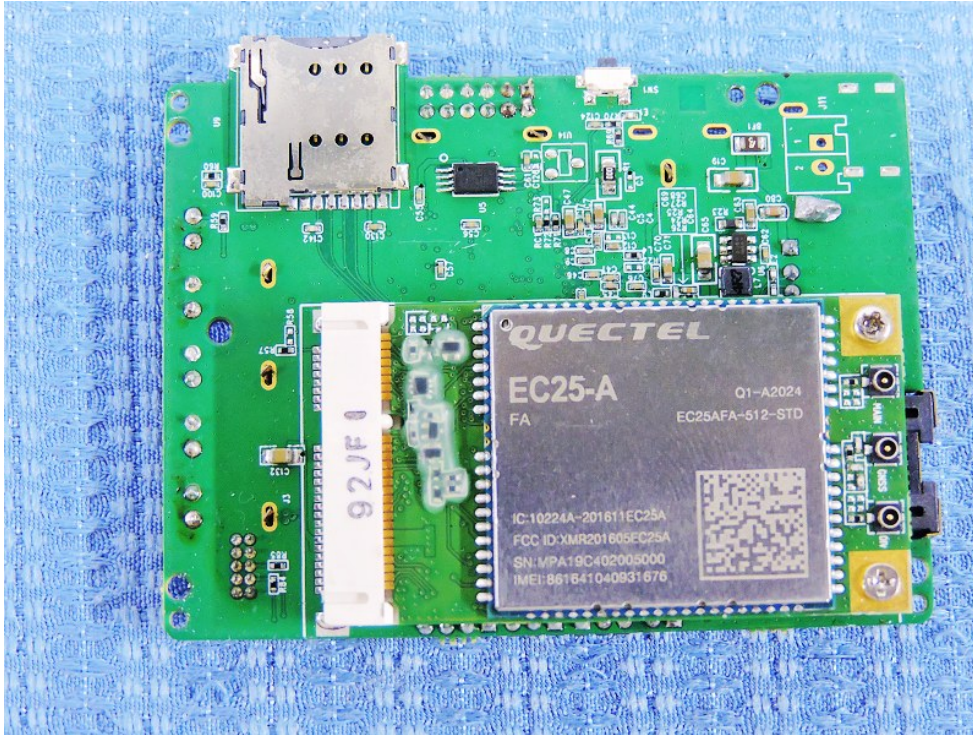


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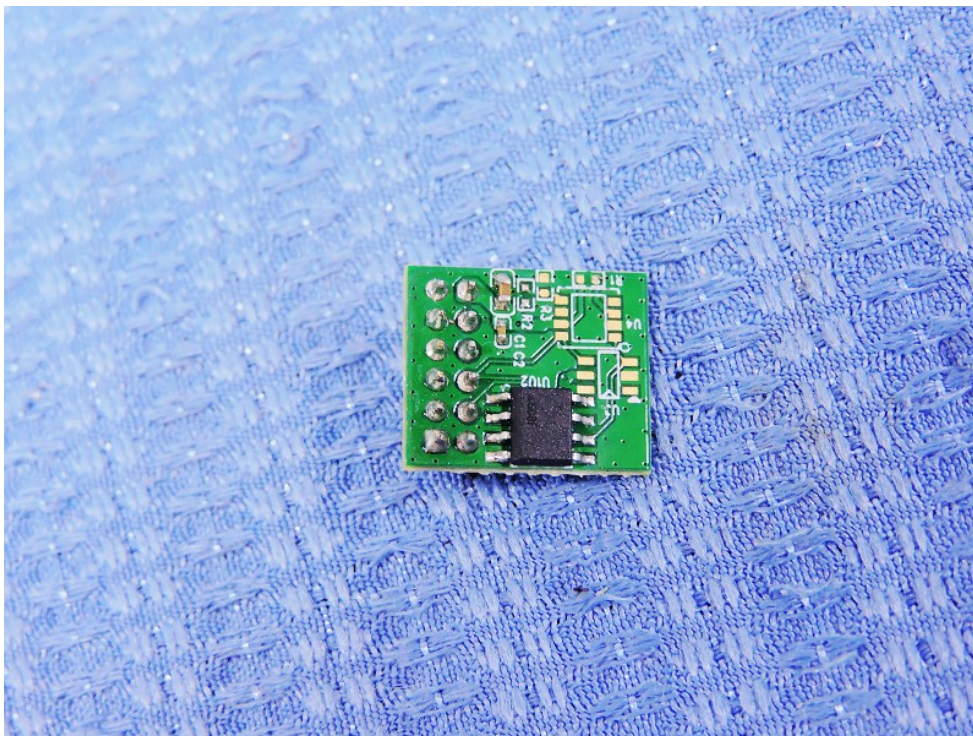
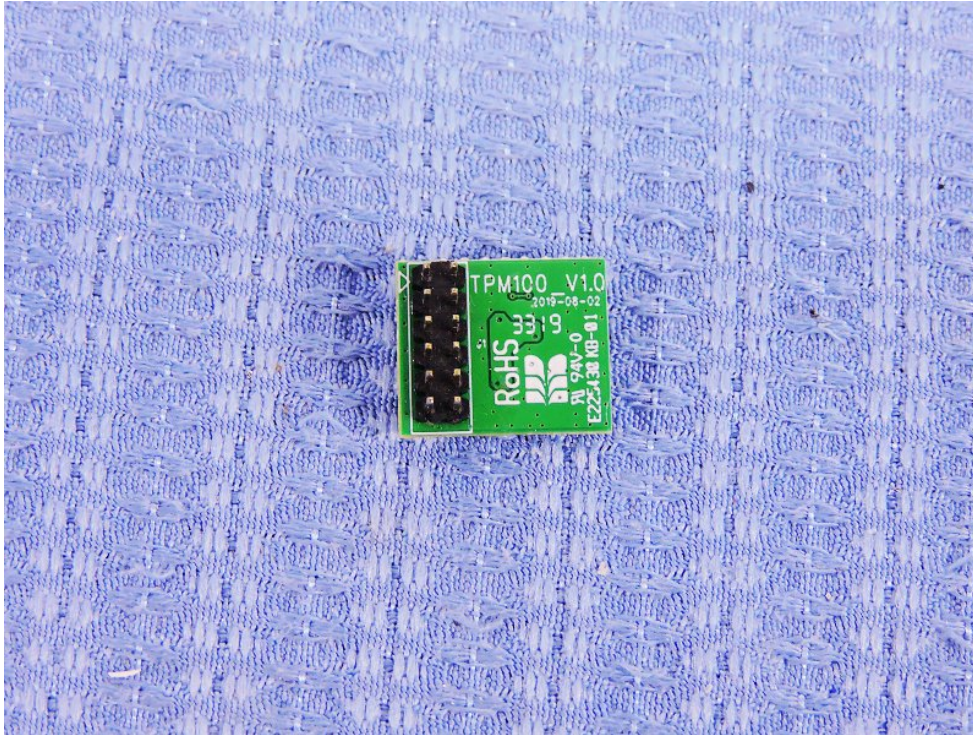
Inside view



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Inside view



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