



TEST REPORT

REPORT NUMBER: I21W00006-WLAN_Rev2

ON

Type of Equipment: Tracker
Model Name: Pod Lite
Manufacturer: Micron Electronics LLC.

ACCORDING TO

FCC Part 15, Subpart C, 2019:

15.205 Restricted bands of operation,

15.209 Radiated emission limits; general requirements,

15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz

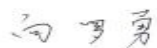
ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Chongqing Academy of Information and Communications Technology

Month date, year

May, 10, 2021

Signature



Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

Report No.:I21W00006-WLAN_Rev2

Revision Version

Report Number	Revision	Date	Memo
I21W00006-WLAN	V0.0	2021-04-16	--
I21W00006-WLAN	V1.0	2021-04-30	--
I21W00006-WLAN	V2.0	2021-05-10	--

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Report No.:I21W00006-WLAN_Rev2**FCC ID:** ZKQ-PPODLT**Report Date:** 2021-04-30**Test Firm Name:** Chongqing Academy of Information and Communications Technology**FCC Registration Number:** CN1239**Statement**

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C. The sample tested was found to comply with the requirements defined in the applied rules.

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CONTENTS

1 GENERAL INFORMATION.....	4
1.1 NOTES.....	4
1.2 TESTERS.....	5
1.3 TESTING LABORATORY INFORMATION.....	6
1.4 DETAILS OF APPLICANT OR MANUFACTURER.....	7
2 TEST ITEM.....	8
2.1 GENERAL INFORMATION.....	8
2.2 OUTLINE OF EQUIPMENT UNDER TEST.....	8
2.3 MODIFICATIONS INCORPORATED IN EUT.....	9
2.4 EQUIPMENT CONFIGURATION.....	9
2.5 OTHER INFORMATION.....	9
3 SUMMARY OF TEST RESULTS.....	10
4 TEST EQUIPMENTS AND ANCILLARIES USED FOR TESTS.....	11
5 TEST RESULTS.....	12
5.1 MAXIMUM PEAK OUTPUT POWER.....	12
5.2 PEAK POWER SPECTRAL DENSITY.....	58
5.3 6DB OCCUPIED BANDWIDTH.....	66
5.4 99% OCCUPIED BANDWIDTH.....	74
5.5BAND EDGES COMPLIANCE.....	82
5.6 TRANSMITTER SPURIOUS EMISSION-CONDUCTED.....	88
5.7 TRANSMITTER SPURIOUS EMISSION-RADIATED.....	102
ANNEX A EUT PHOTOS.....	125
ANNEX B DEVIATIONS FROM PRESCRIBED TEST METHODS.....	126

1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C and ANSI C63.10-2013 and FCC KDB 558074.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B.

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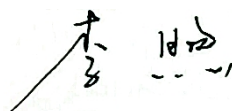
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Report No.:I21W00006-WLAN_Rev2

1.2 Testers

Name: Li Xu
Position: Engineer
Department: Department of RF test
Date: 2021-03-28 to 2021-05-10

Signature:



Editor of this test report:

Name: Chen Wen
Position: Engineer
Department: Department of RF test
Date: 2021-05-10

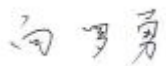
Signature:



Technical responsibility for area of testing:

Name: Xiang Luoyong
Position: Manager
Department: Director of the laboratory
Date: 2021-05-10

Signature:



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1.3 Testing Laboratory information

1.3.1 Location

Name: Chongqing Academy of Information and Communications Technology

Address: Building B, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China, 401336

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Fax: +86-23-88608777

Email: liqiao@caict.ac.cn

1.3.2 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

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Report No.:I21W00006-WLAN_Rev2

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Micron Electronics LLC.
Address: 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
Country: USA
Telephone: +18885383489
Fax: --
Contact: Ping Cheng
Email: pcheng@micron-electronics.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
Country: --
Telephone: --
Fax: --
Contact: --
Email: --

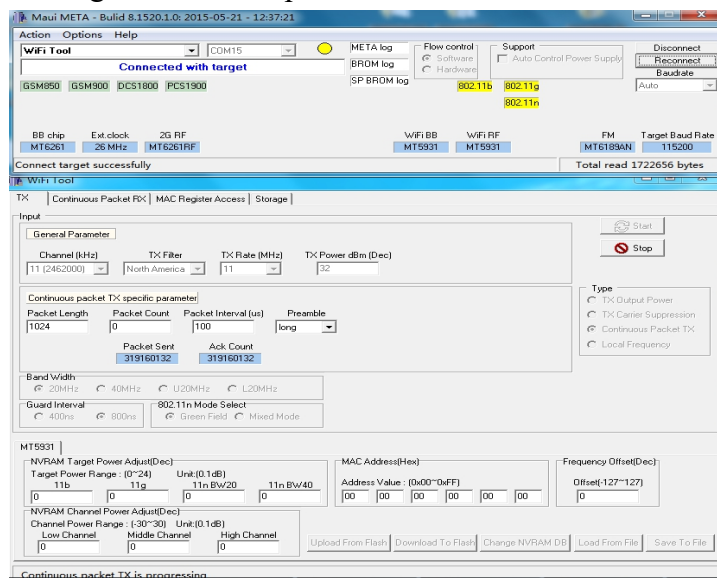
Report No.:I21W00006-WLAN_Rev2

2 Test Item

2.1 General Information

Manufacturer:	Micron Electronics LLC.
Type of Equipment:	Tracker
Model Name:	Pod Lite
Production Status:	Product
Hardware Version:	A512_V1_PCB
Software Version:	GT501MA_C_ATT01.01B02.I01
Antenna description:	Built in FPC antenna
Antenna Gain:	0.5dBi
Test SW Version:	8.1520.1.0
frequency range:	2412-2462MHz
Normal Voltages	3.30 V
Receipt date of test item:	2021-03-23

EUT uses tool to control emission measurement, Change power level, channel, rate and bandwidth. 11b/g/n transmitter power level set to 32.



2.2 Outline of Equipment under Test

The Pod Lite, referred to as “EUT” hereafter, is a multi-Band wireless modem operating on the GSM/CAT-M1/Wi-Fi/BLUETOOTH 5.0 networks. The table below

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Report No.:I21W00006-WLAN_Rev2

shows the supported bands for the EUT.

Technology	Freq.(MHz)	Note
2.4G WLAN	2400-2483.5	--

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Modules	Micron Electronics LLC.	Tracker	866884045632486	None
B	Modules	Micron Electronics LLC.	Tracker	866884045632239	None
C	data line	--	--	--	--

2.5 Other Information

--

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Name of Test	Result
Maximum Peak Output Power	Pass
Peak Power Spectral Density	Pass
6dB Occupied Bandwidth	Pass
99% Occupied Bandwidth	--
Band Edges Compliance	Pass
Transmitter Spurious Emission-Conducted	Pass
Transmitter Spurious Emission-Radiated	Pass
Power line Conducted Emissions	Pass
Note:--	

4 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

No.	Equipment	Model	SN	Manufacture	Cal. Due Date
1	EMI Test Receiver	ESU26	100367	R&S	2021-06-25
2	Trilog super broad band test antenna	VULB 9163	9163-544	R&S	2023-04-03
3	Double-Ridged Horn Antenna	HF907	100357	R&S	2021-08-20
4	Fully-Anechoic Chamber	11.8m×6.5 m×6.3m	--	ETS	2024-01-22
5	Spectrum analyzer	FSQ 26	201137/026	R&S	2021-06-25
6	DC Power Supply	N6705B	MY50000919	Agilent	2021-06-25

5 Test Results

5.1 Maximum Peak Output Power

Specifications:	FCC Part 15.247(b)
DUT Serial Number:	866884045632486
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz: 1 watt.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Measurement Uncertainty:

Measurement Uncertainty	$\pm 1.0\text{dB}$
-------------------------	--------------------

Test Method1:

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set $\text{RBW} \geq \text{OBW}$, Set the appropriate VBW
4. Set sPan=zero
5. Sweep time=auto couple
6. Detector : Peak.
7. Trace mode: Max Hold

Test Method2:

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set $\text{RBW} = 1\text{MHz}$, $\text{VBW} = 3\text{MHz}$
4. Detector=peak
5. Sweep time=auto couple
6. Trace mode: Max Hold

Note: The test image shows only the worst-case results.

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Report No.:I21W00006-WLAN_Rev2

Measurement Results:

802.11b/g mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch1	Ch6	Ch11	
802.11b	1	15.97	16.84	16.46	Pass
	2	15.97	16.87	16.51	Pass
	5.5	15.83	16.77	16.42	Pass
	11	15.78	16.88	16.43	Pass
802.11g	6	18.42	20.42	18.53	Pass
	9	18.16	20.10	17.89	Pass
	12	17.94	19.77	18.04	Pass
	18	17.95	19.13	17.78	Pass
	24	17.97	19.38	17.91	Pass
	36	17.52	19.28	18.08	Pass
	48	18.03	19.24	17.70	Pass
	54	17.58	19.42	17.84	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch1	Ch6	Ch11	
802.11n (20MHz)	MCS0	18.33	20.14	20.58	Pass
	MCS1	17.73	19.23	19.06	Pass
	MCS2	17.52	18.94	19.23	Pass
	MCS3	17.43	19.50	19.24	Pass
	MCS4	17.36	19.67	19.35	Pass
	MCS5	17.65	19.48	18.82	Pass
	MCS6	17.62	18.90	19.11	Pass
	MCS7	18.16	19.74	19.54	Pass

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch3	Ch6	Ch9	
802.11n (40MHz)	MCS0	17.24	16.04	16.78	Pass
	MCS1	15.73	15.79	16.34	Pass
	MCS2	15.49	15.61	15.73	Pass
	MCS3	15.51	15.90	15.99	Pass
	MCS4	15.62	15.53	15.80	Pass
	MCS5	15.42	15.55	15.83	Pass
	MCS6	15.35	15.52	15.89	Pass
	MCS7	15.32	15.75	15.74	Pass

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Report No.:I21W00006-WLAN_Rev2

802.11b/g mode

Mode	Data Rate(Mbps)	EIRP(dBm)			Conclusion
		Ch1	Ch6	Ch11	
802.11b	1	16.47	17.34	16.96	Pass
	2	16.47	17.37	17.01	Pass
	5.5	16.33	17.27	16.92	Pass
	11	16.28	17.38	16.93	Pass
802.11g	6	18.92	20.92	19.03	Pass
	9	18.66	20.60	18.39	Pass
	12	18.44	20.27	18.54	Pass
	18	18.45	19.63	18.28	Pass
	24	18.47	19.88	18.41	Pass
	36	18.02	19.78	18.58	Pass
	48	18.53	19.74	18.20	Pass
	54	18.08	19.92	18.34	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch1	Ch6	Ch11	
802.11n (20MHz)	MCS0	18.83	20.64	21.08	Pass
	MCS1	18.23	19.73	19.56	Pass
	MCS2	18.02	19.44	19.73	Pass
	MCS3	17.93	20.00	19.74	Pass
	MCS4	17.86	20.17	19.85	Pass
	MCS5	18.15	19.98	19.32	Pass
	MCS6	18.12	19.40	19.61	Pass
	MCS7	18.66	20.24	20.04	Pass

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch3	Ch6	Ch9	
802.11n (40MHz)	MCS0	17.74	16.54	17.28	Pass
	MCS1	16.23	16.29	16.84	Pass
	MCS2	15.99	16.11	16.23	Pass
	MCS3	16.01	16.4	16.49	Pass
	MCS4	16.12	16.03	16.3	Pass
	MCS5	15.92	16.05	16.33	Pass
	MCS6	15.85	16.02	16.39	Pass
	MCS7	15.82	16.25	16.24	Pass

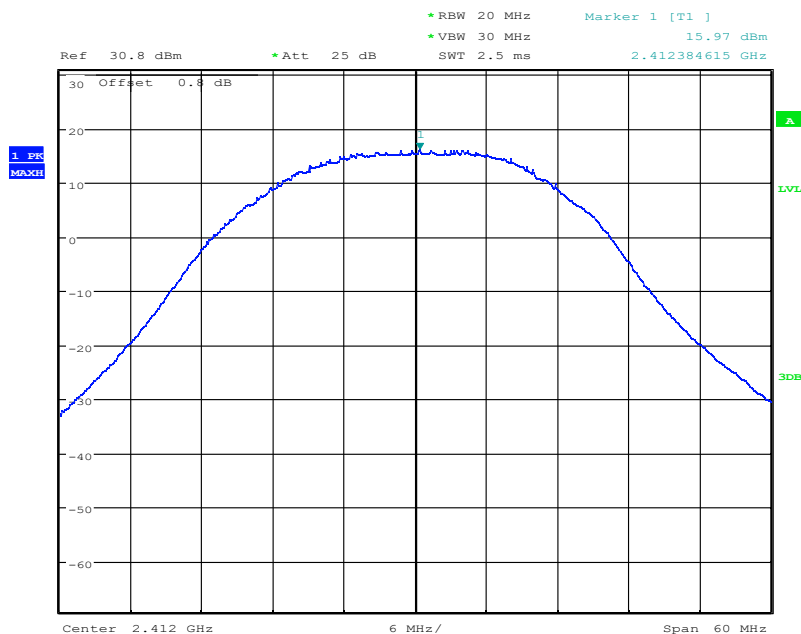
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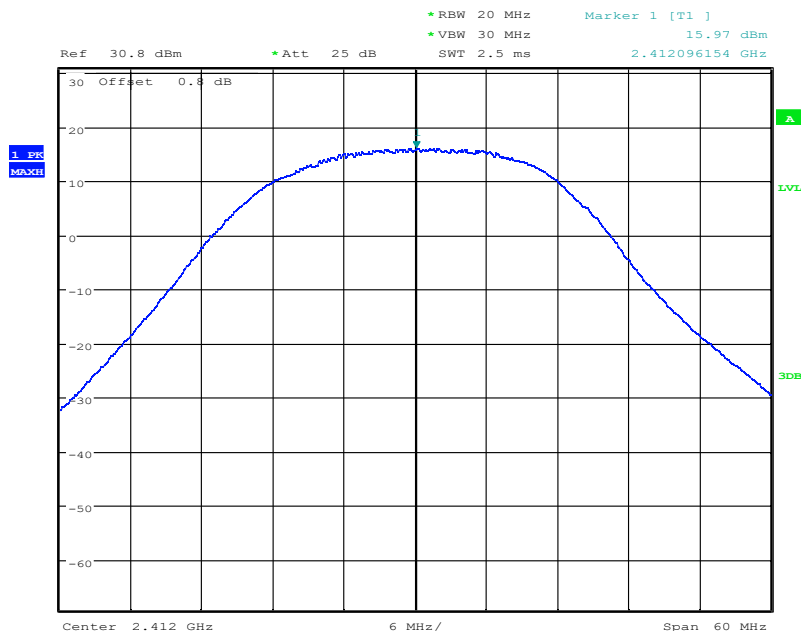
Conclusion: PASS

Test figure as below:



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Fig.1 Peak Conducted Output Power CH1, 11b, Rate1



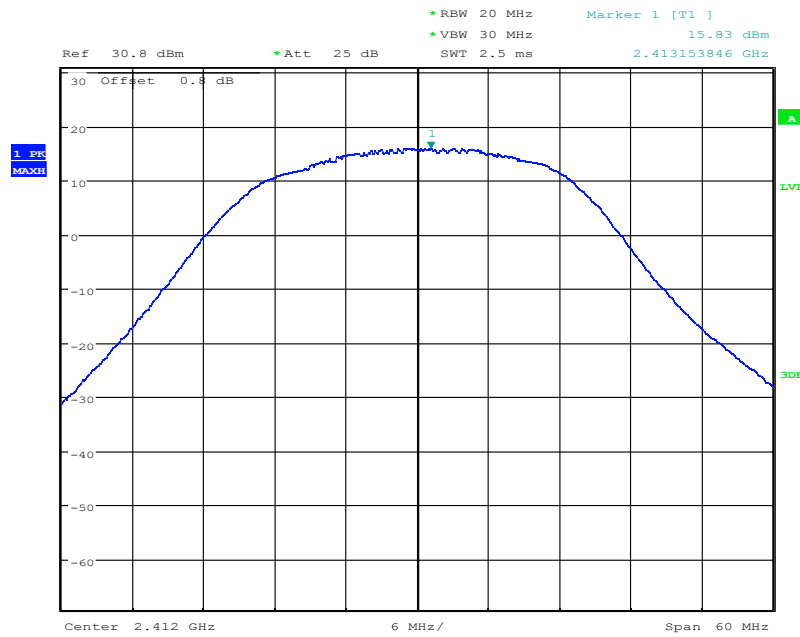
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Fig.2 Peak Conducted Output Power CH1, 11b, Rate2

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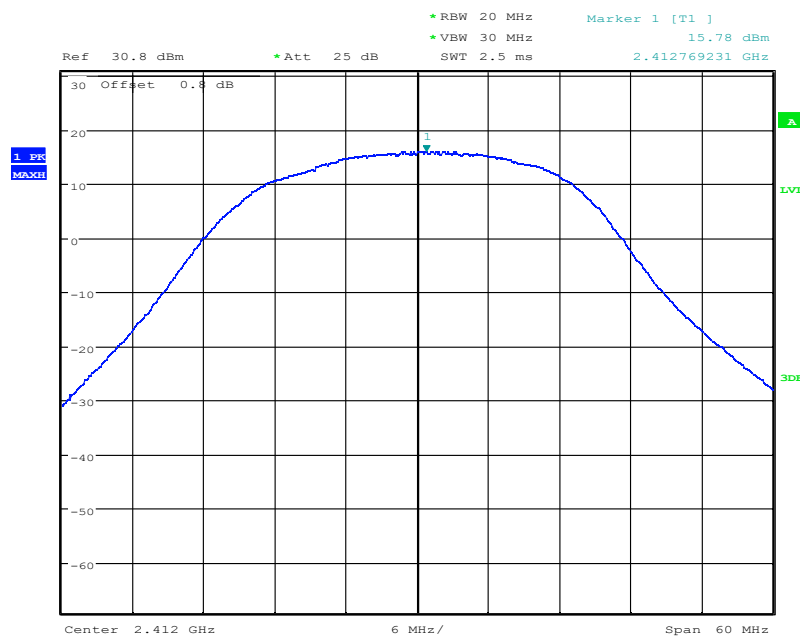
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Fig.3 Peak Conducted Output Power CH1, 11b, Rate5.5



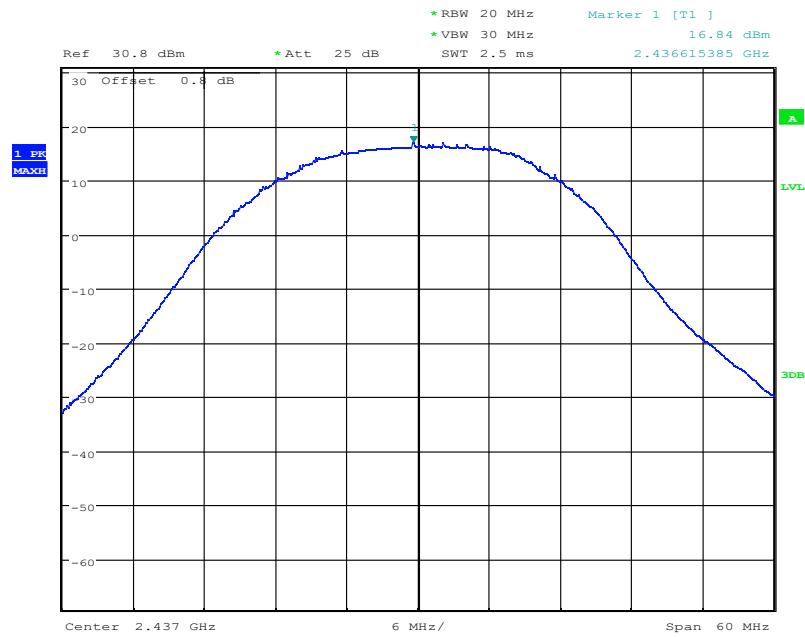
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Fig.4 Peak Conducted Output Power CH1, 11b, Rate11

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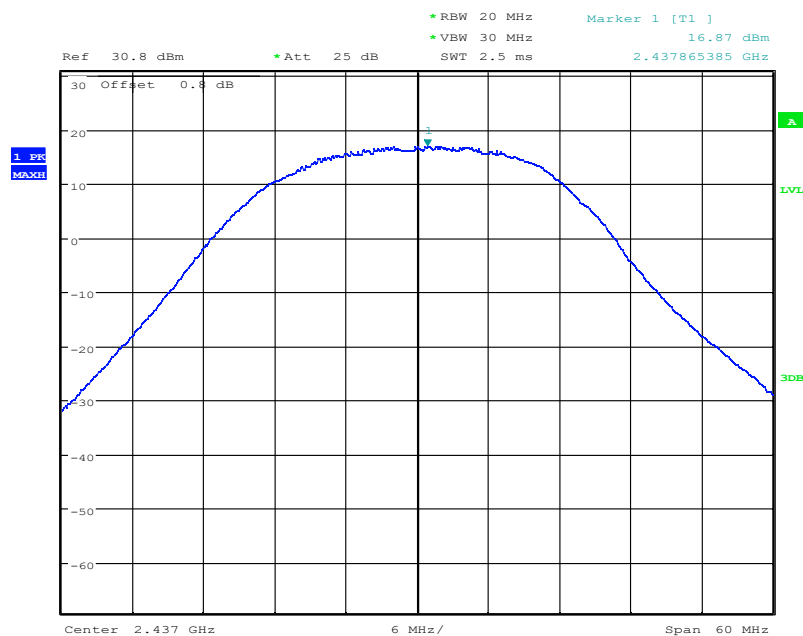
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Fig.5 Peak Conducted Output Power CH6, 11b, Rate1



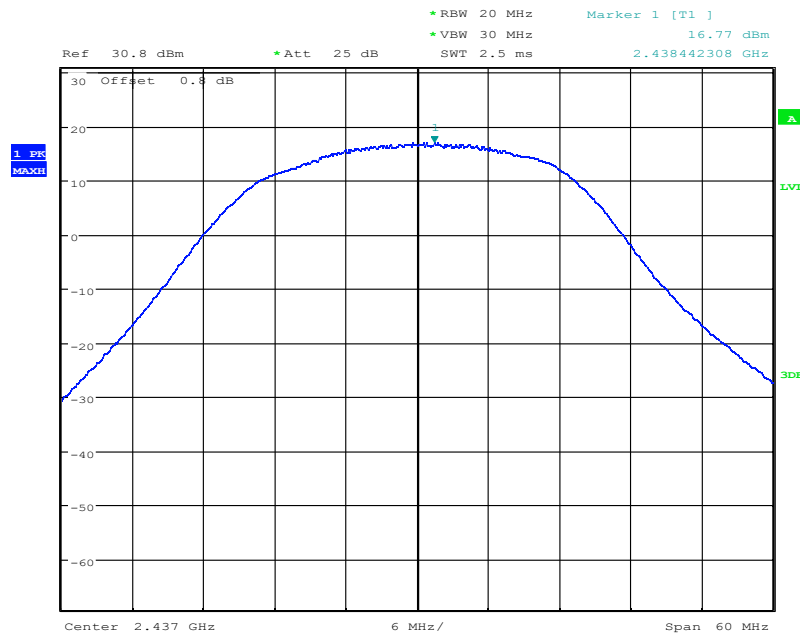
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Fig.6 Peak Conducted Output Power CH6, 11b, Rate2

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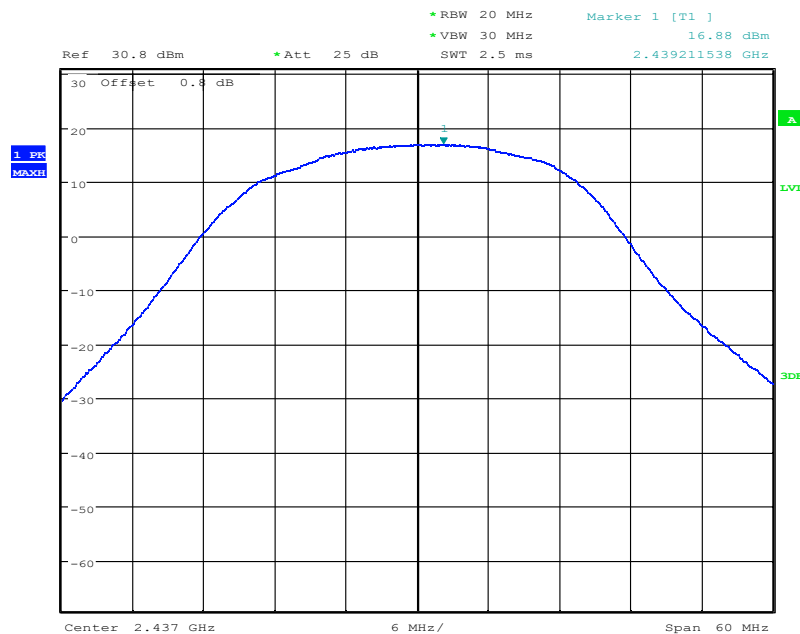
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Fig.7 Peak Conducted Output Power CH6, 11b, Rate5.5



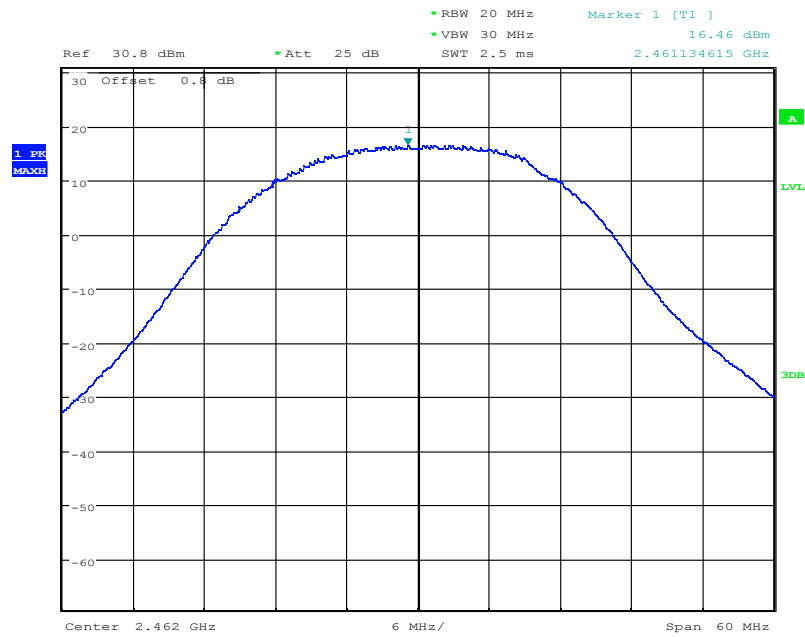
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Fig.8 Peak Conducted Output Power CH6, 11b, Rate11

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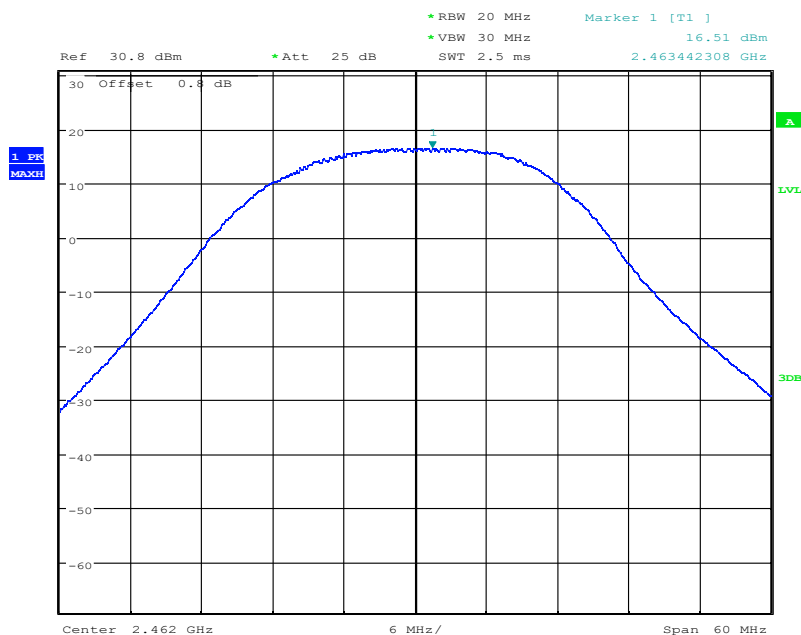
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Fig.9 Peak Conducted Output Power CH11, 11b, Rate1



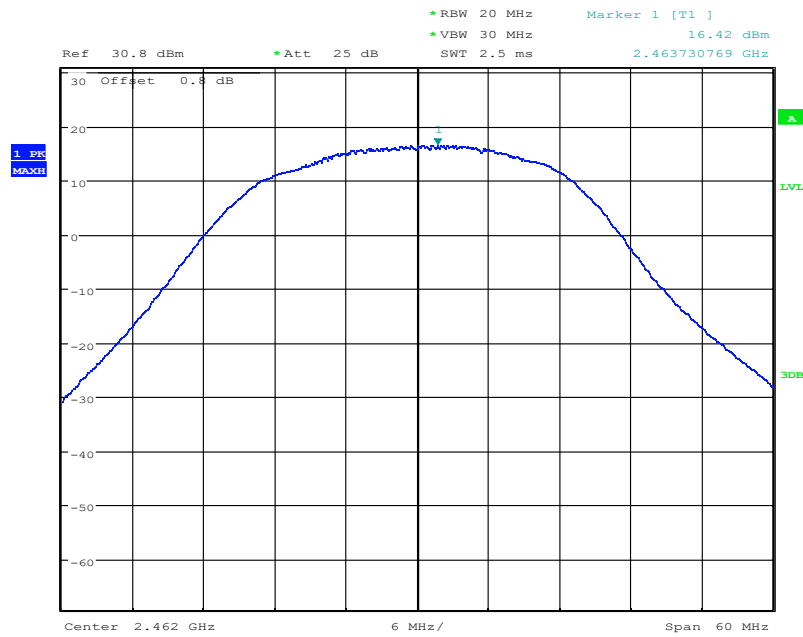
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Fig.10 Peak Conducted Output Power CH11, 11b, Rate2

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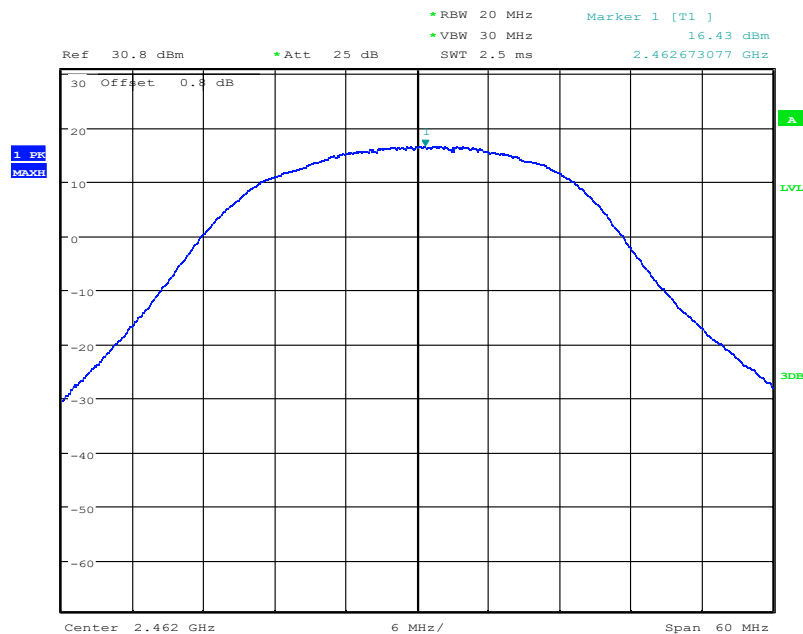
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Fig.11 Peak Conducted Output Power CH11, 11b, Rate5.5



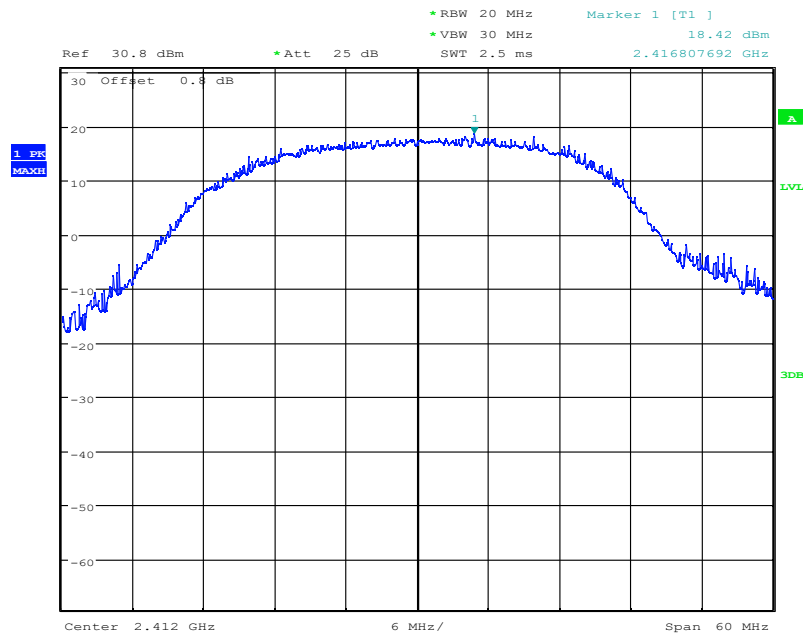
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Fig.12 Peak Conducted Output Power CH11, 11b, Rate11

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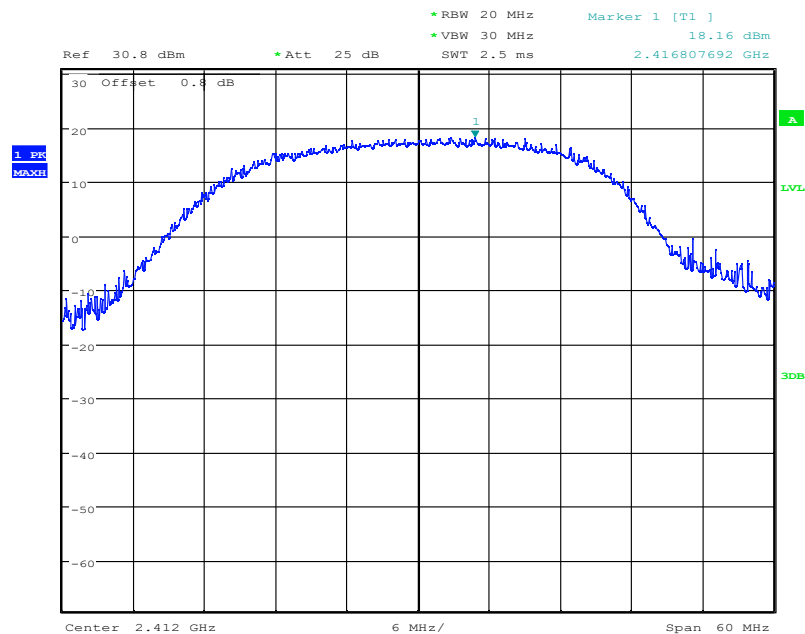
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Fig.13 Peak Conducted Output Power CH1, 11g, Rate6



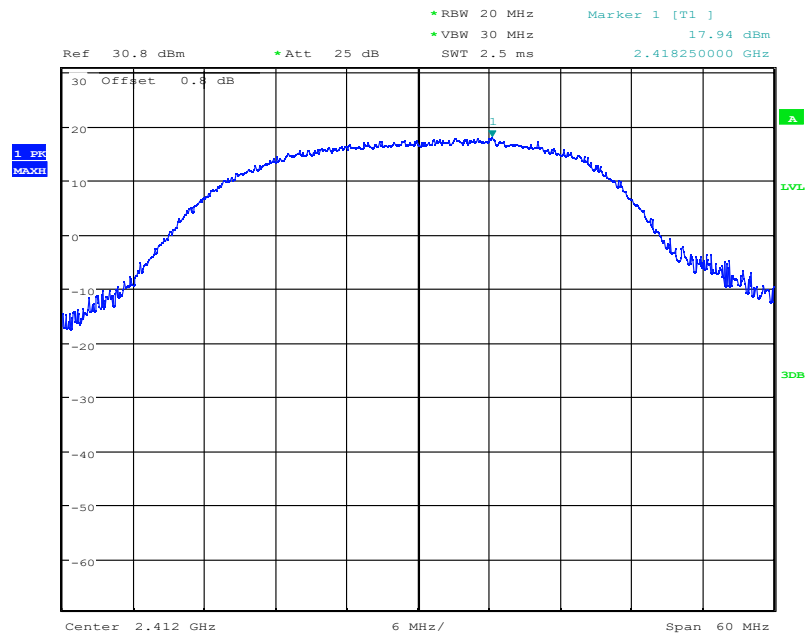
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Fig.14 Peak Conducted Output Power CH1, 11g, Rate9

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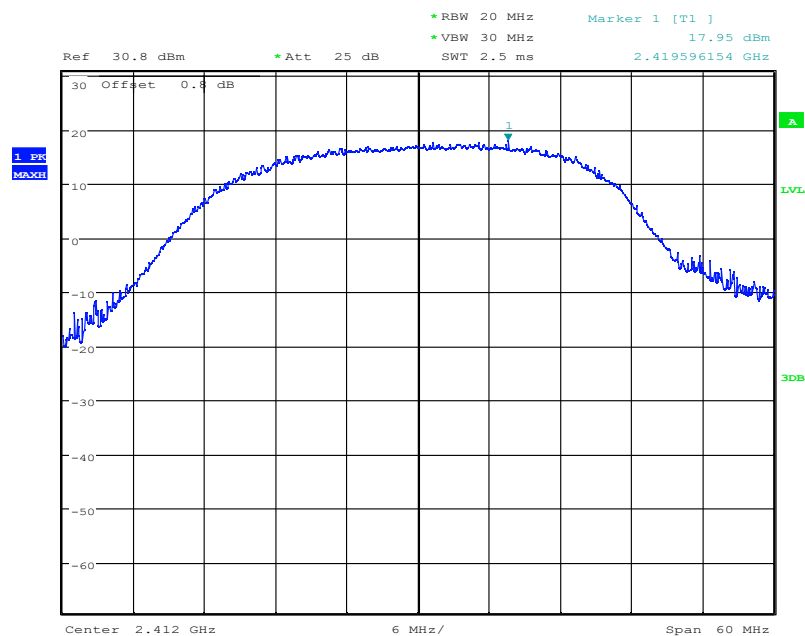
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Fig.15 Peak Conducted Output Power CH1, 11g, Rate12



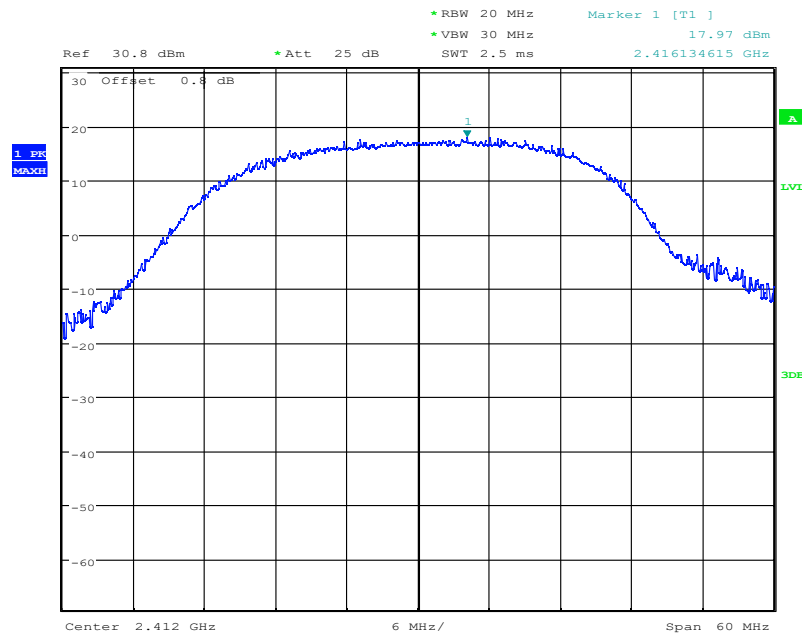
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Fig.16 Peak Conducted Output Power CH1, 11g, Rate18

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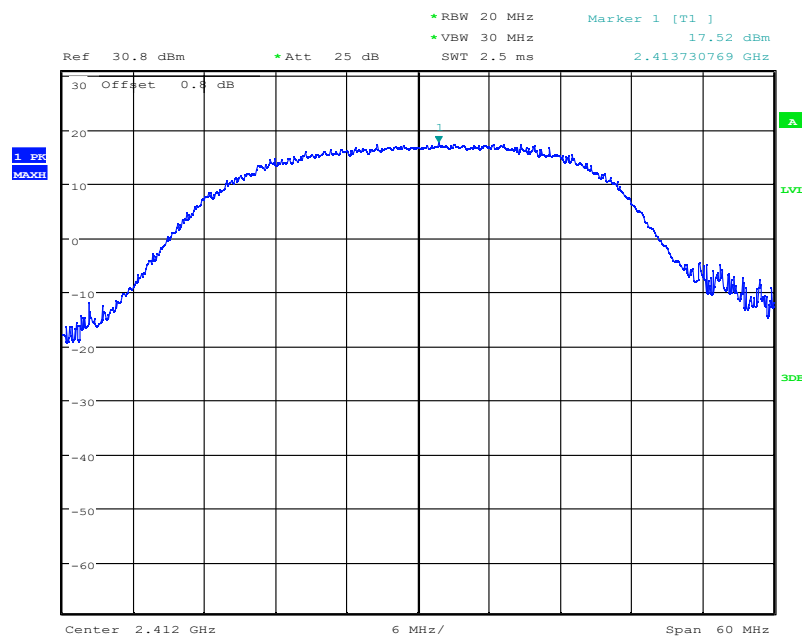
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Report No.:I21W00006-WLAN_Rev2



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Fig.17 Peak Conducted Output Power CH1, 11g, Rate24



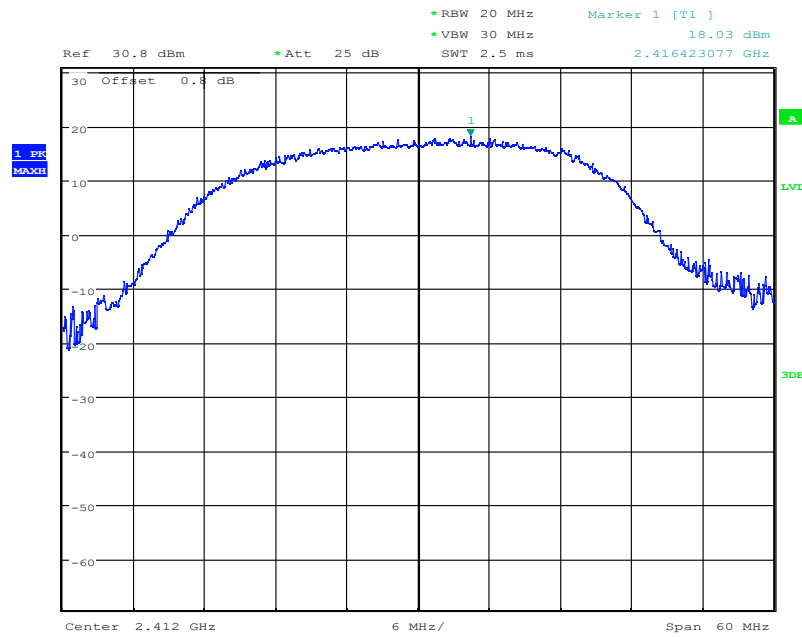
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Fig.18 Peak Conducted Output Power CH1, 11g, Rate36

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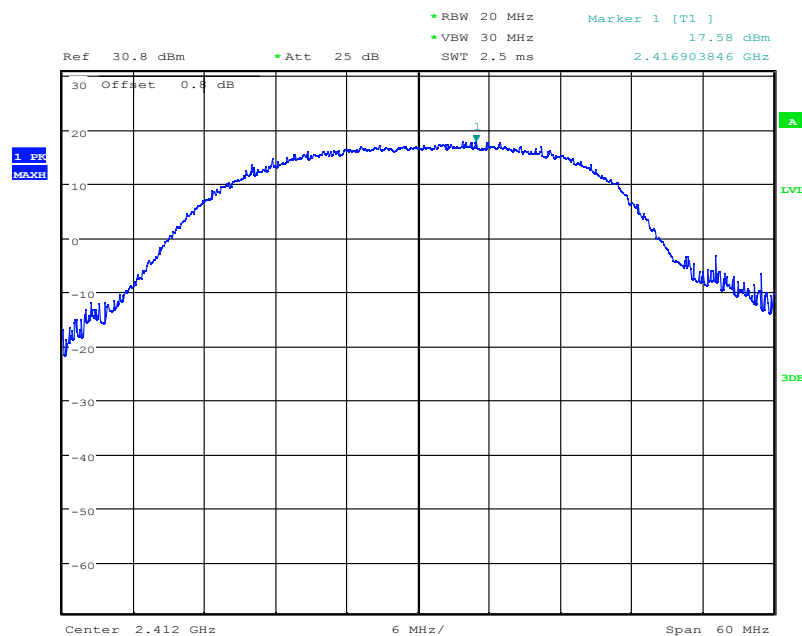
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:29:22

Fig.19 Peak Conducted Output Power CH1, 11g, Rate48



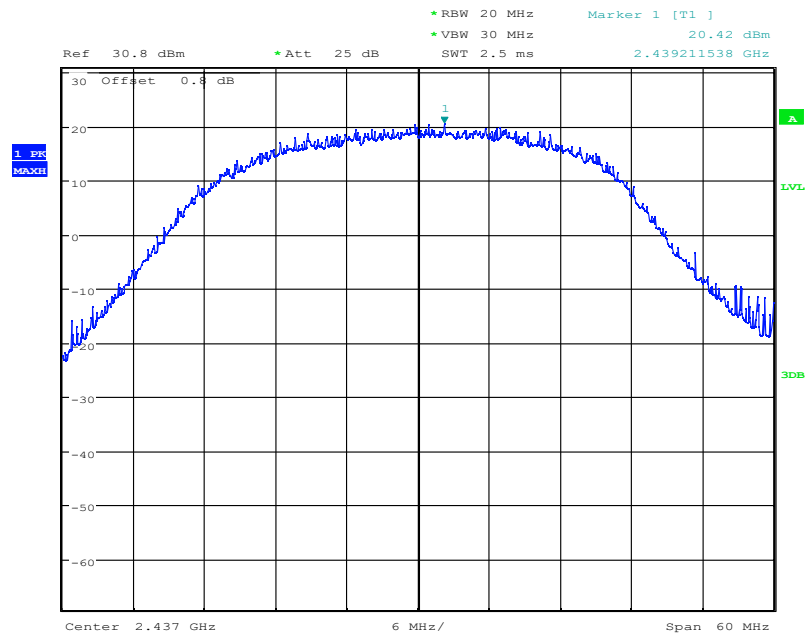
Date: 18.APR.2021 01:29:41

Fig.20 Peak Conducted Output Power CH1, 11g, Rate54

Chongqing Academy of Information and Communication Technology

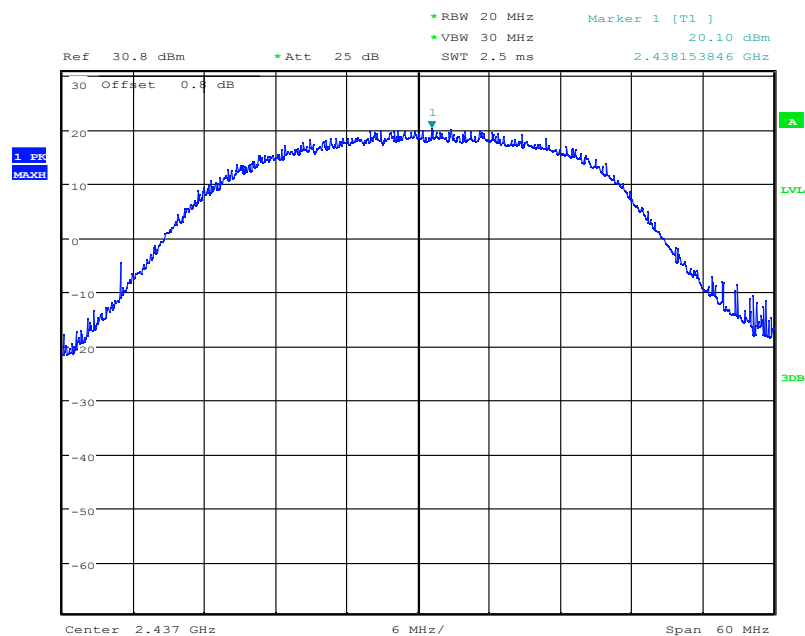
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:23:47

Fig.21 Peak Conducted Output Power CH6, 11g, Rate6



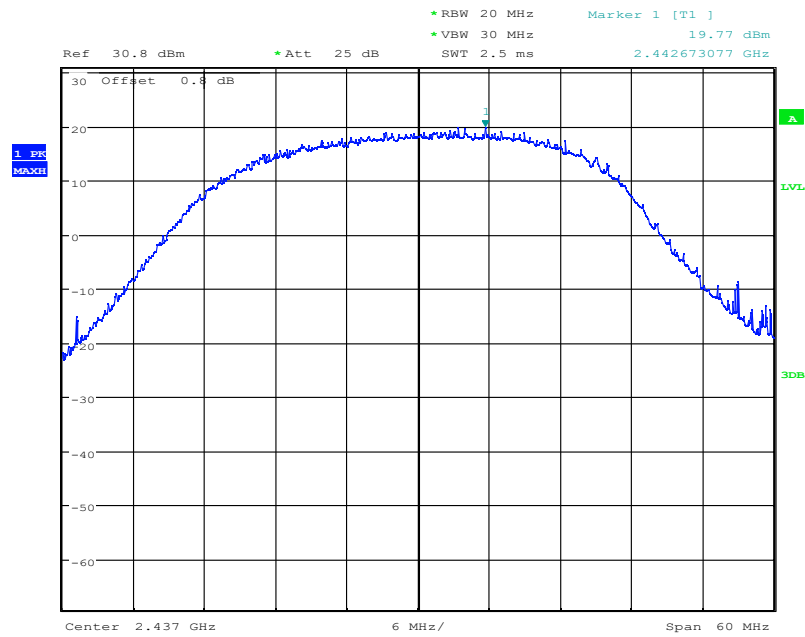
Date: 18.APR.2021 01:23:29

Fig.22 Peak Conducted Output Power CH6, 11g, Rate9

Chongqing Academy of Information and Communication Technology

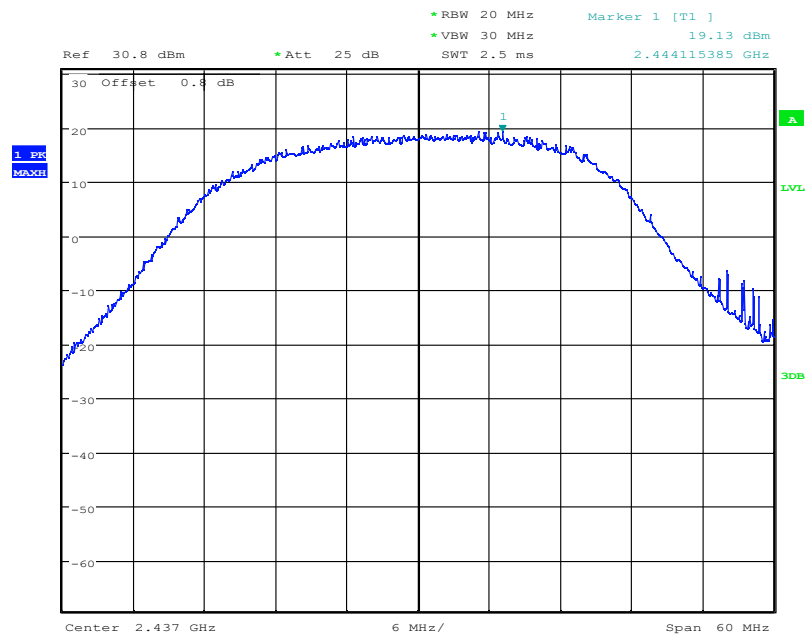
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:23:10

Fig.23 Peak Conducted Output Power CH6, 11g, Rate12



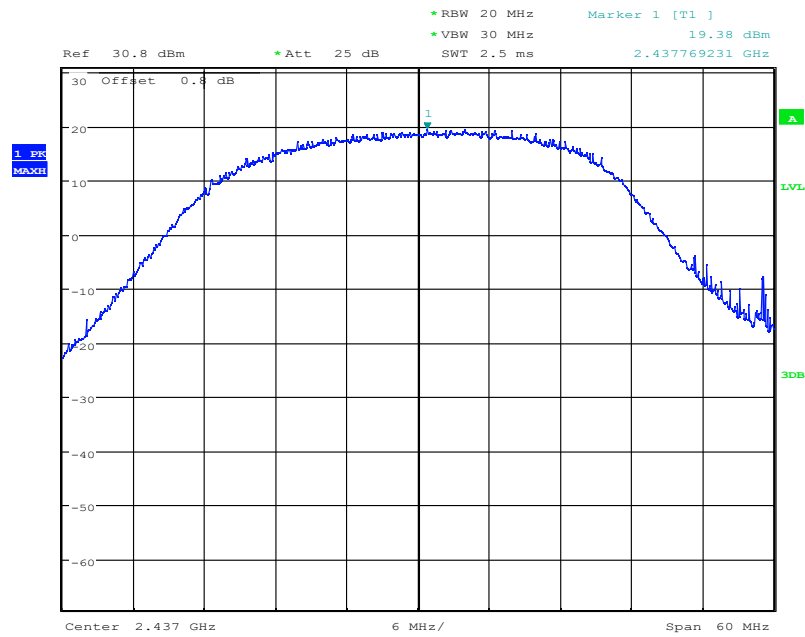
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Fig.24 Peak Conducted Output Power CH6, 11g, Rate18

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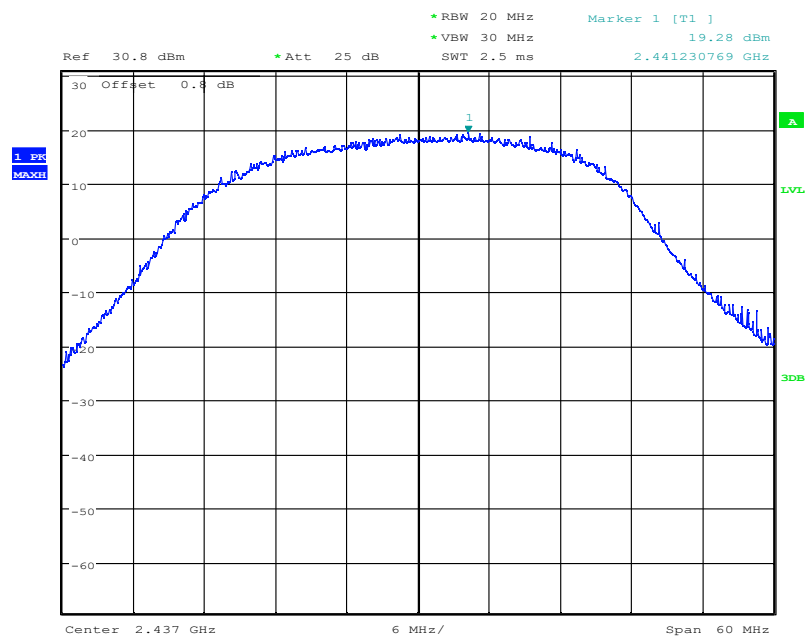
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:22:41

Fig.25 Peak Conducted Output Power CH6, 11g, Rate24



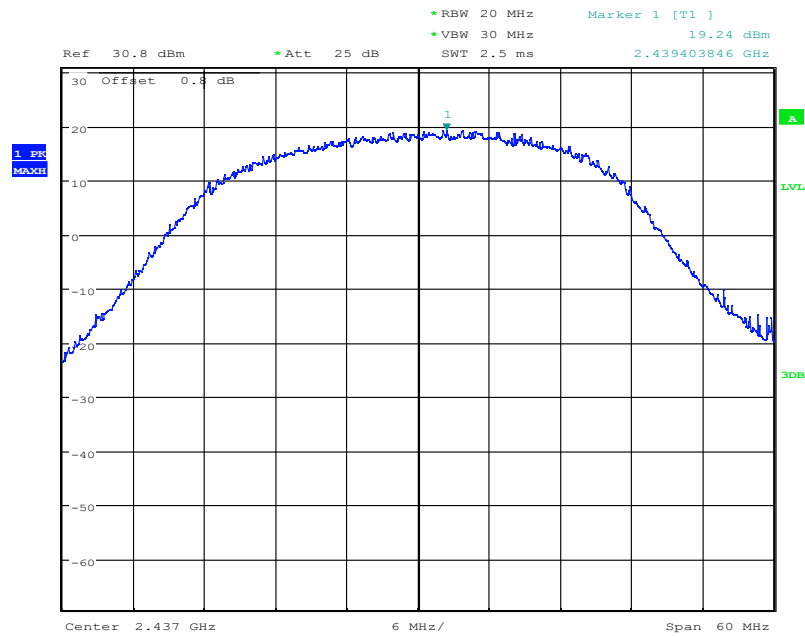
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Fig.26 Peak Conducted Output Power CH6, 11g, Rate36

Chongqing Academy of Information and Communication Technology

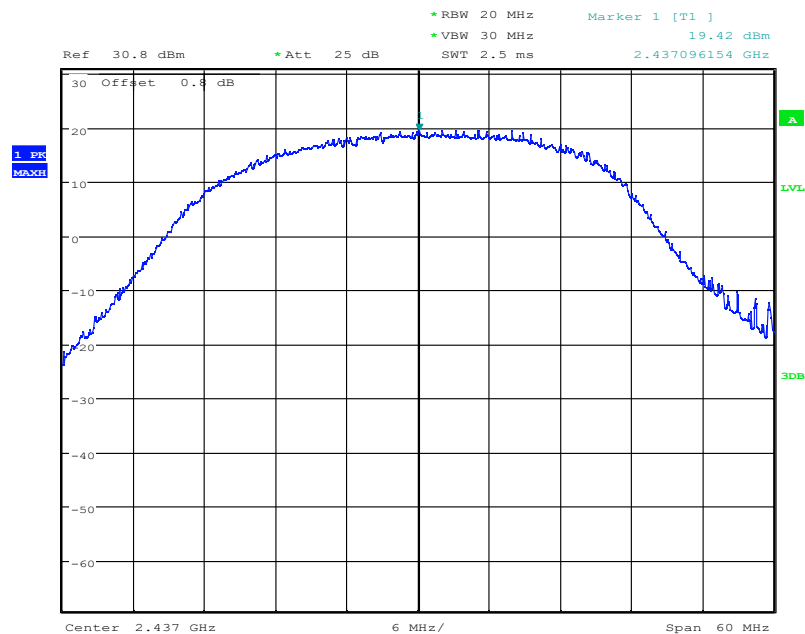
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:21:56

Fig.27 Peak Conducted Output Power CH6, 11g, Rate48



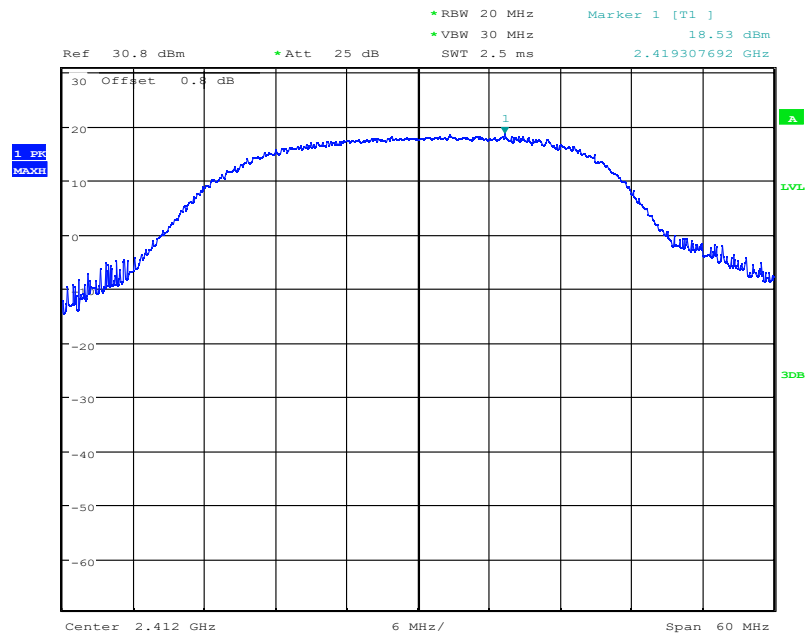
Date: 18.APR.2021 01:21:39

Fig.28 Peak Conducted Output Power CH6, 11g, Rate54

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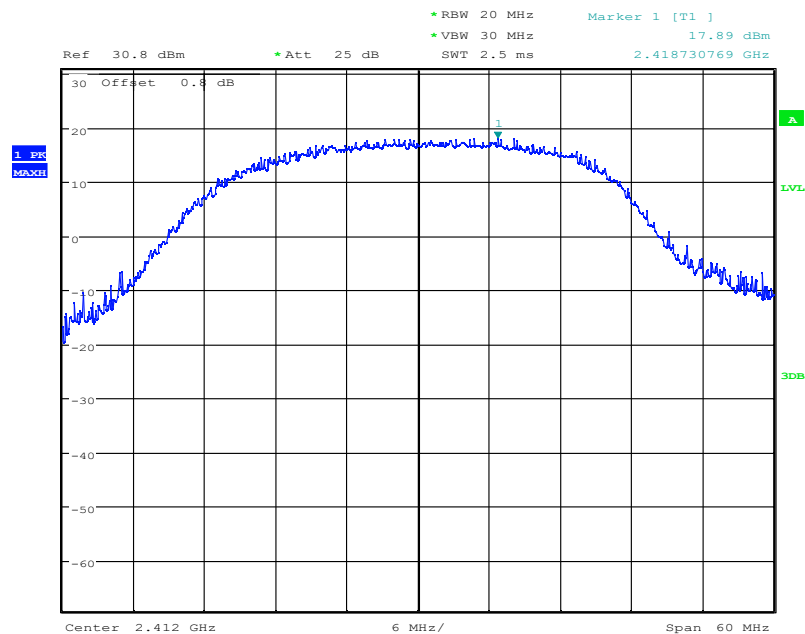
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:18:40

Fig.29 Peak Conducted Output Power CH11, 11g, Rate6



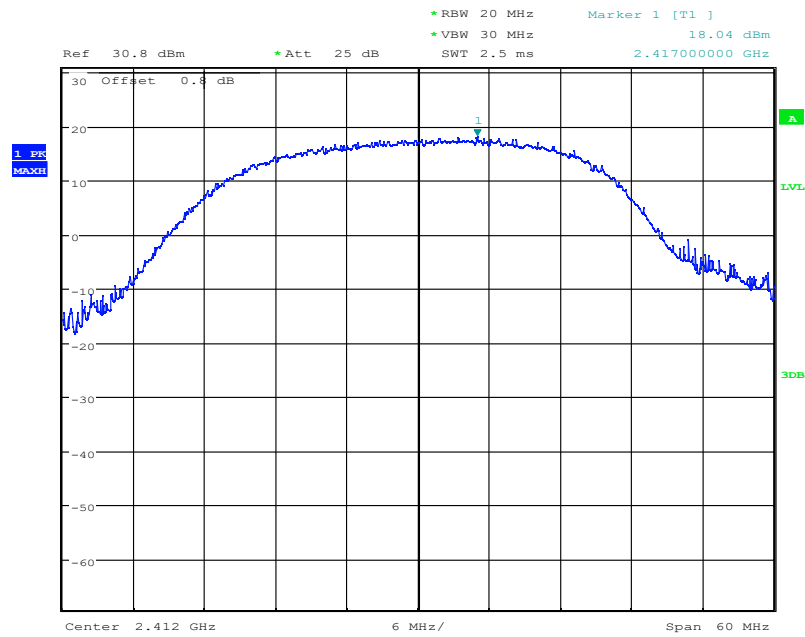
Date: 18.APR.2021 01:18:54

Fig.30 Peak Conducted Output Power CH11, 11g, Rate9

Chongqing Academy of Information and Communication Technology

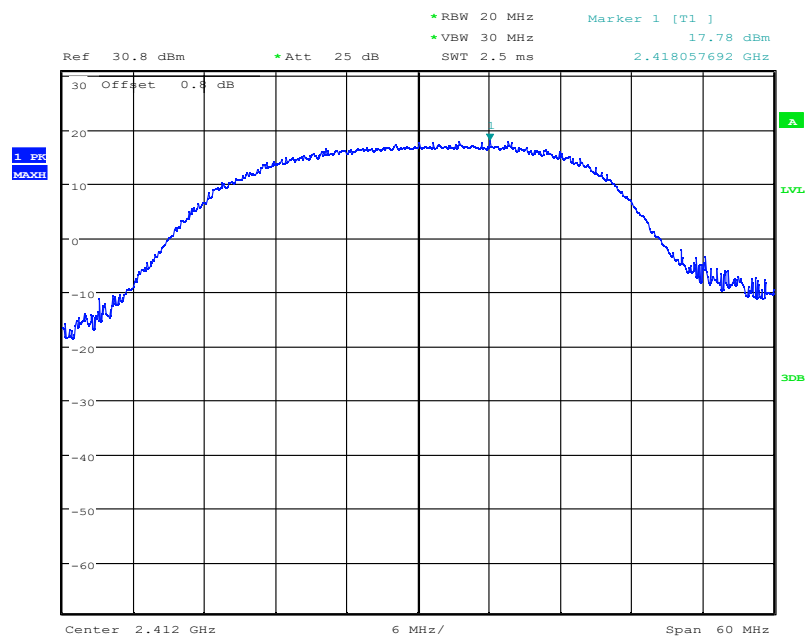
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:19:15

Fig.31 Peak Conducted Output Power CH11, 11g, Rate12



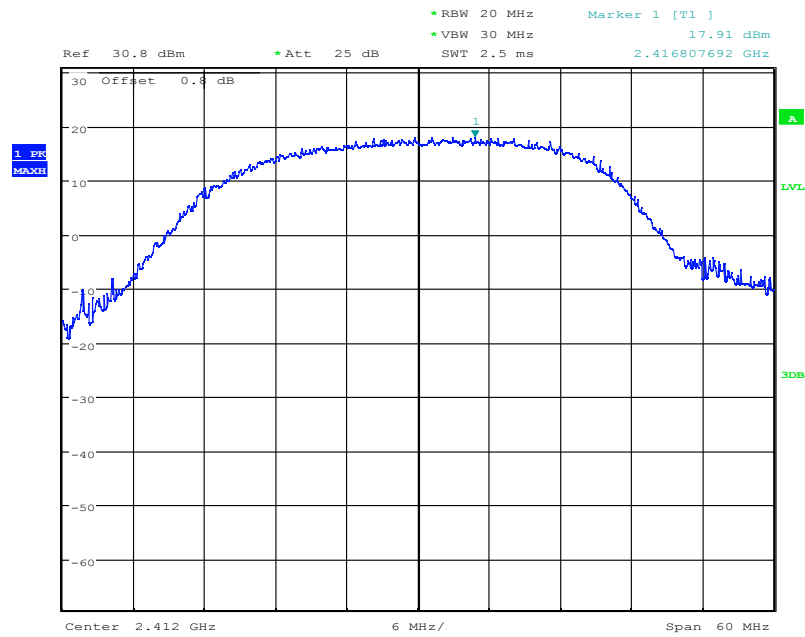
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Fig.32 Peak Conducted Output Power CH11, 11g, Rate18

Chongqing Academy of Information and Communication Technology

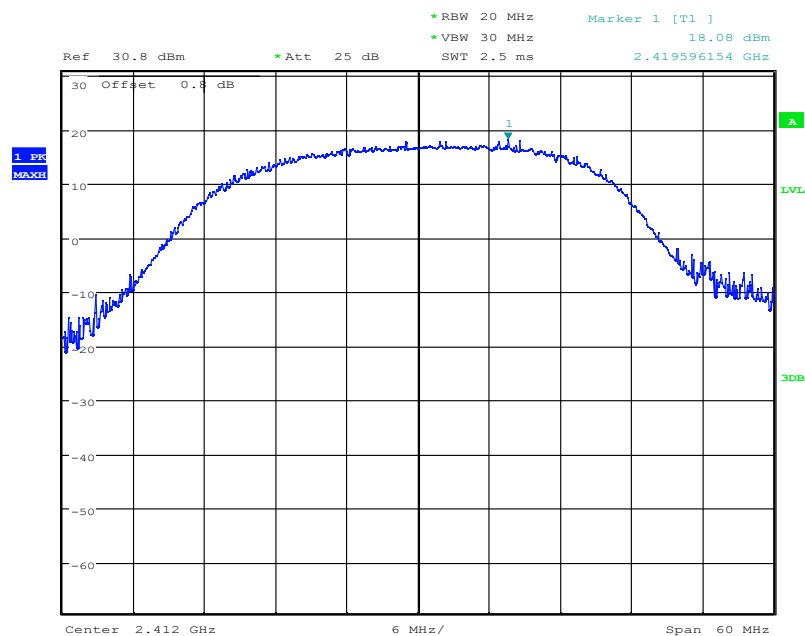
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 18.APR.2021 01:19:56

Fig.33 Peak Conducted Output Power CH11, 11g, Rate24



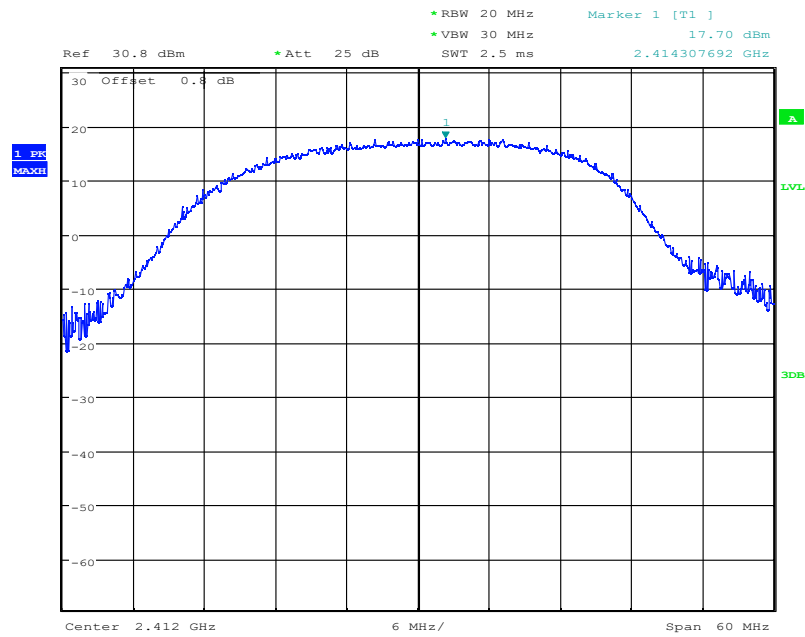
Date: 18.APR.2021 01:20:12

Fig.34 Peak Conducted Output Power CH11, 11g, Rate36

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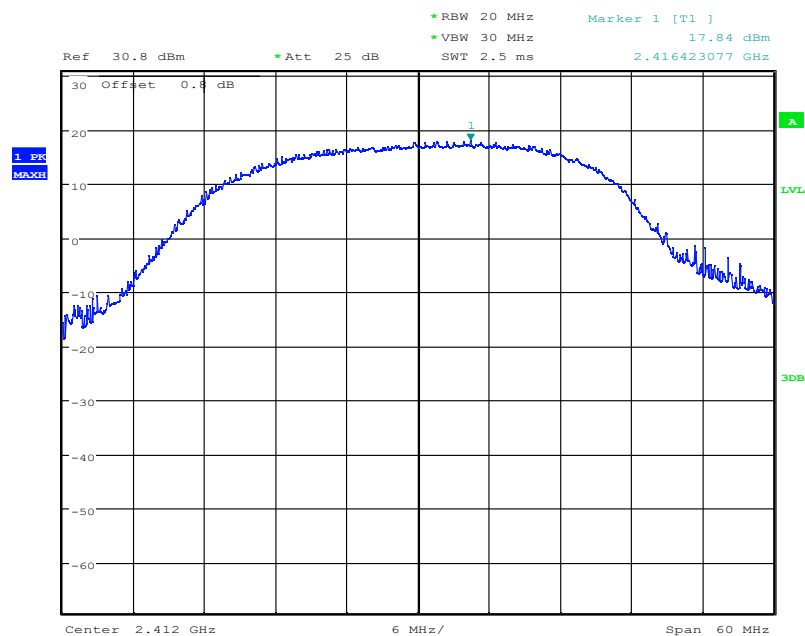
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:20:31

Fig.35 Peak Conducted Output Power CH11, 11g, Rate48



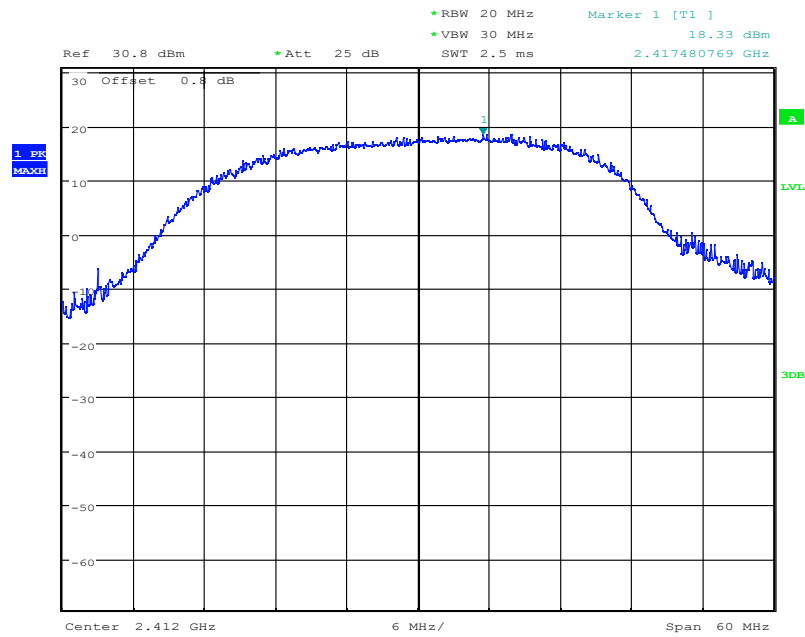
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Fig.36 Peak Conducted Output Power CH11, 11g, Rate54

Chongqing Academy of Information and Communication Technology

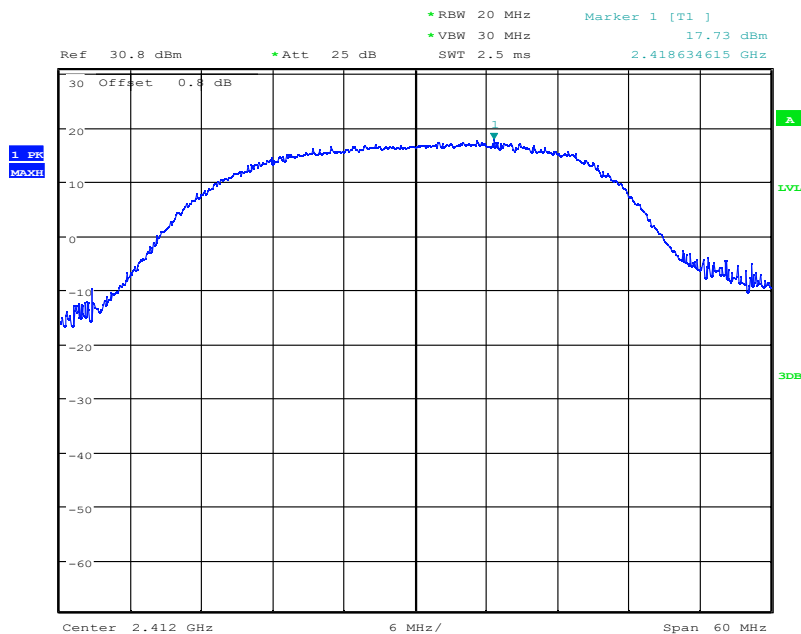
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:31:03

Fig.37 Peak Conducted Output Power CH1, 11n, MCS0



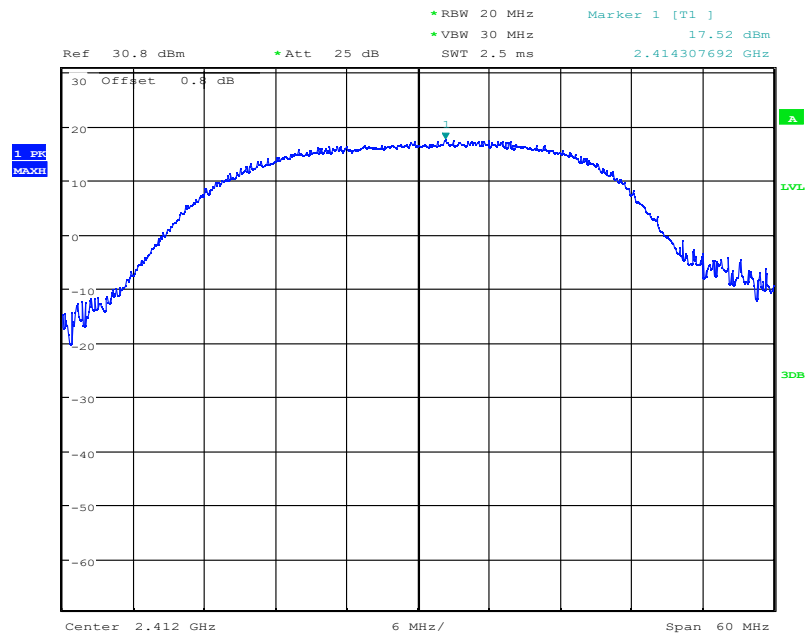
Date: 18.APR.2021 01:31:26

Fig.38 Peak Conducted Output Power CH1, 11n, MCS1

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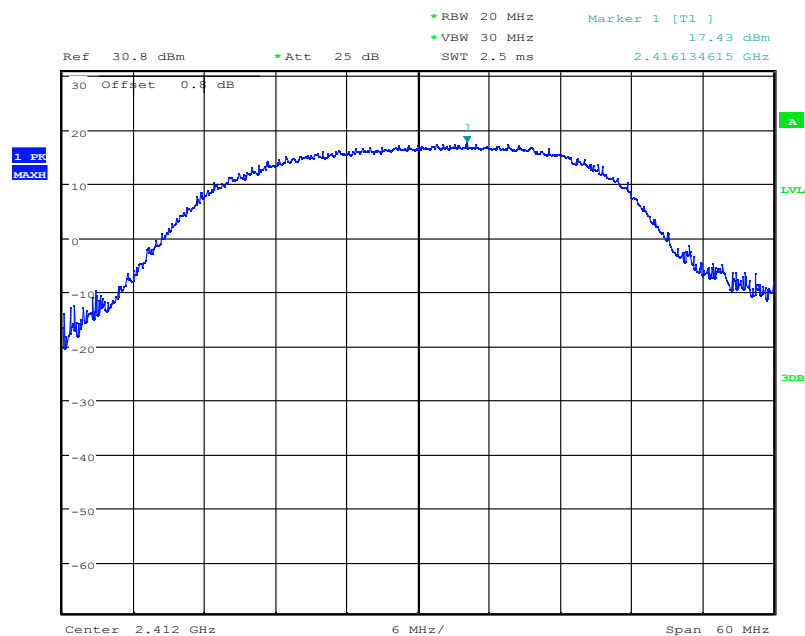
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 18.APR.2021 01:31:41

Fig.39 Peak Conducted Output Power CH1, 11n, MCS2



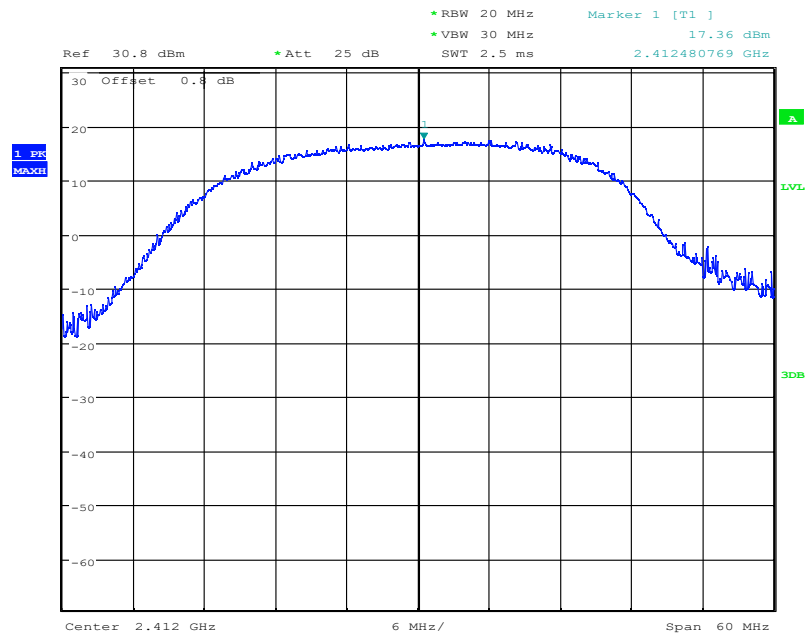
Date: 18.APR.2021 01:31:56

Fig.40 Peak Conducted Output Power CH1, 11n, MCS3

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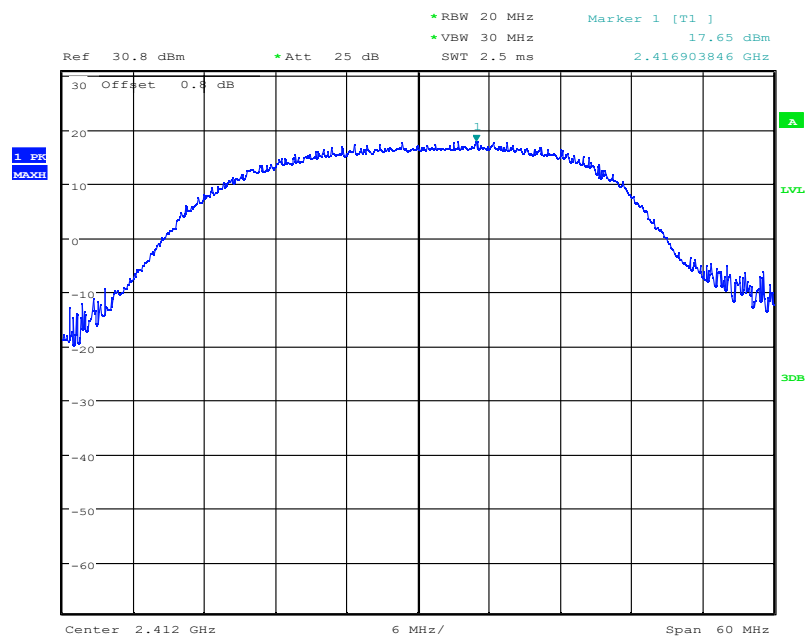
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:32:12

Fig.41 Peak Conducted Output Power CH1, 11n, MCS4



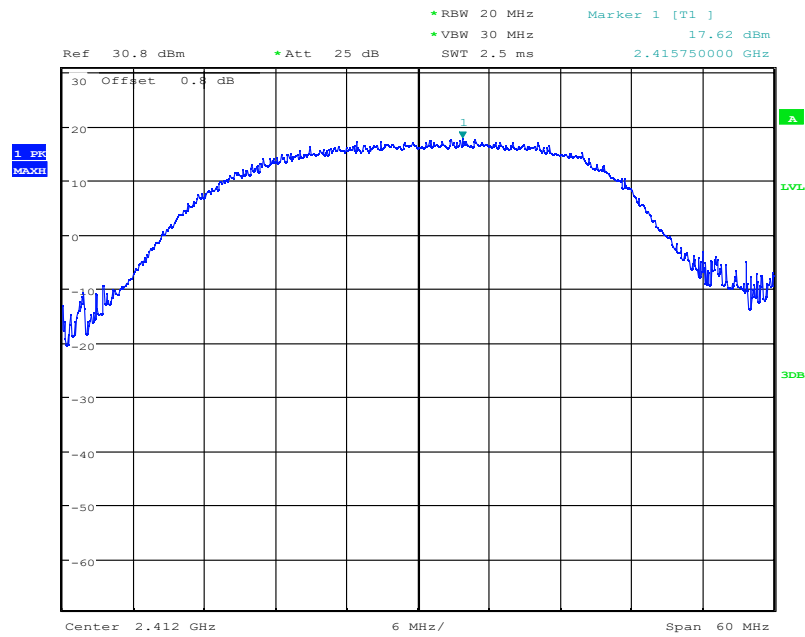
Date: 18.APR.2021 01:32:28

Fig.42 Peak Conducted Output Power CH1, 11n, MCS5

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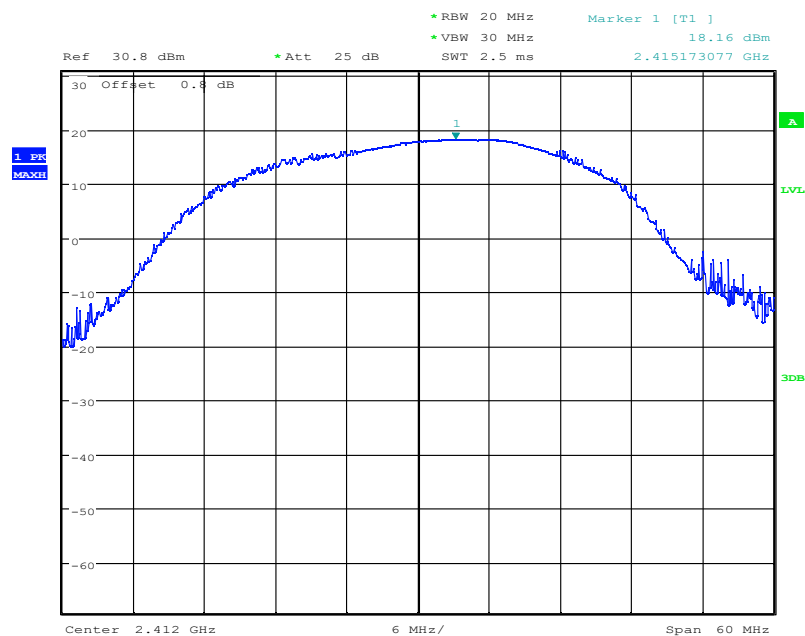
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:32:45

Fig.43 Peak Conducted Output Power CH1, 11n, MCS6



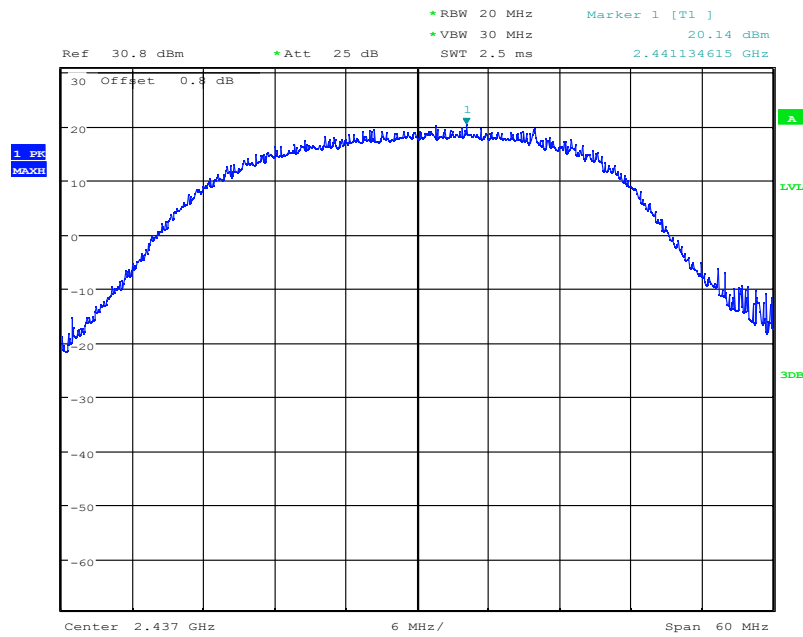
Date: 18.APR.2021 01:33:01

Fig.44 Peak Conducted Output Power CH1, 11n, MCS7

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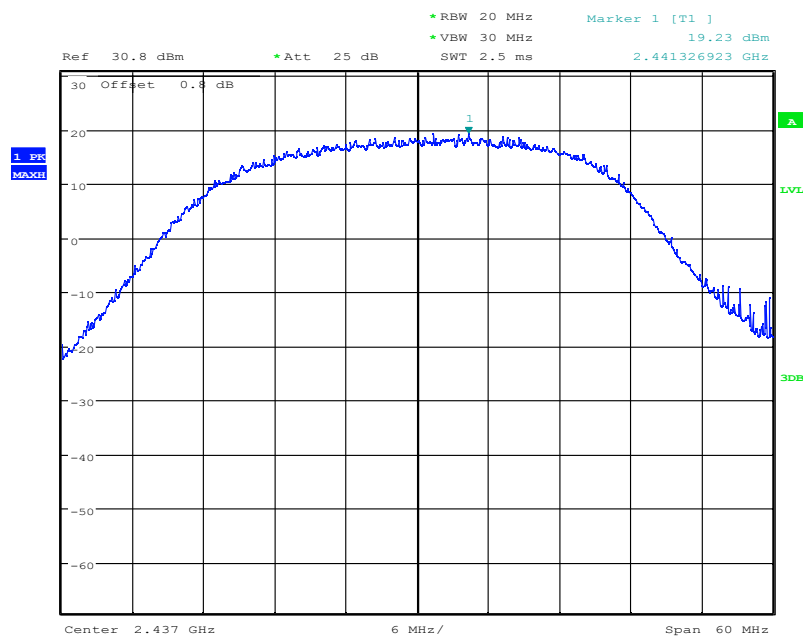
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:35:37

Fig.45 Peak Conducted Output Power CH6, 11n, MCS0



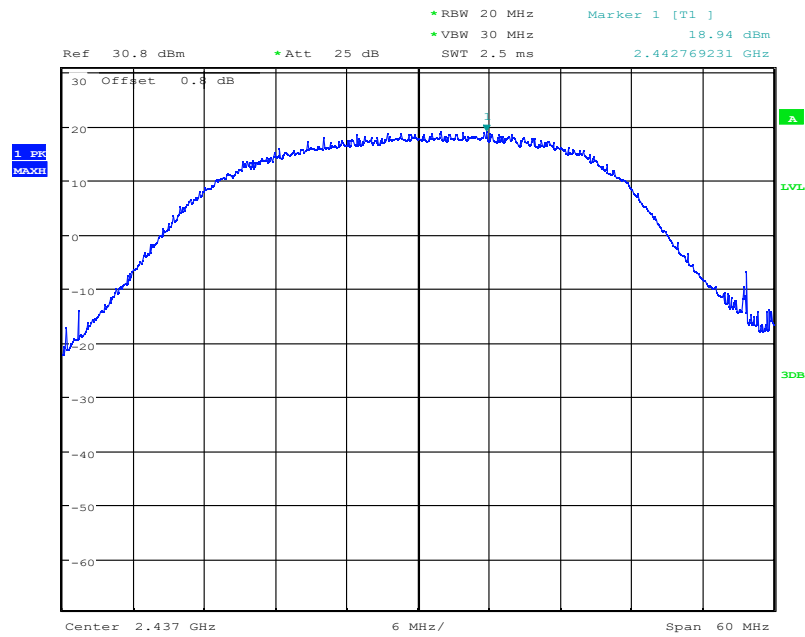
Date: 18.APR.2021 01:35:10

Fig.46 Peak Conducted Output Power CH6, 11n, MCS1

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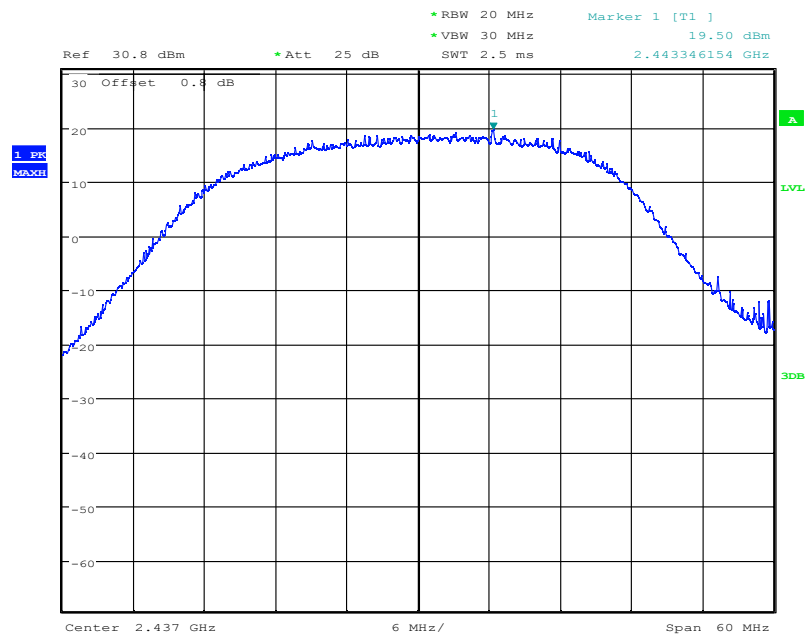
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 18.APR.2021 01:34:55

Fig.47 Peak Conducted Output Power CH6, 11n, MCS2



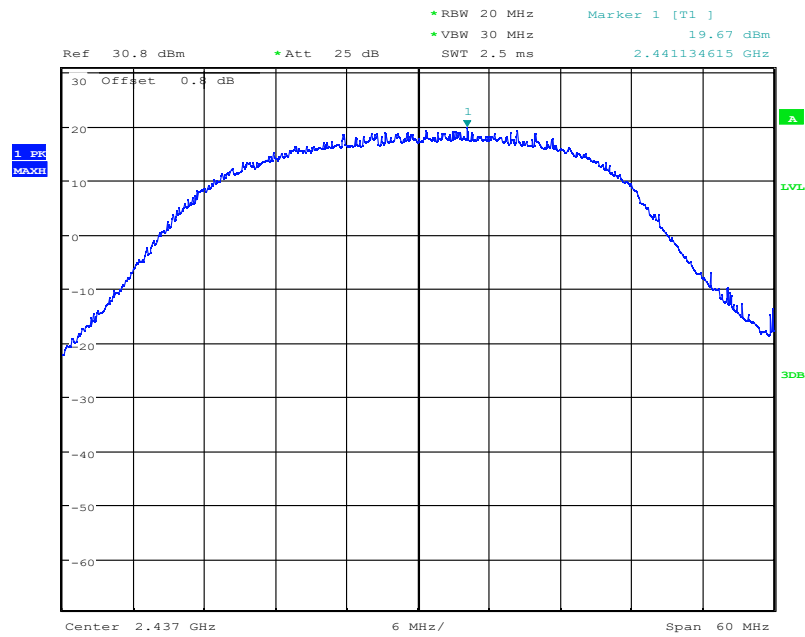
Date: 18.APR.2021 01:34:41

Fig.48 Peak Conducted Output Power CH6, 11n, MCS3

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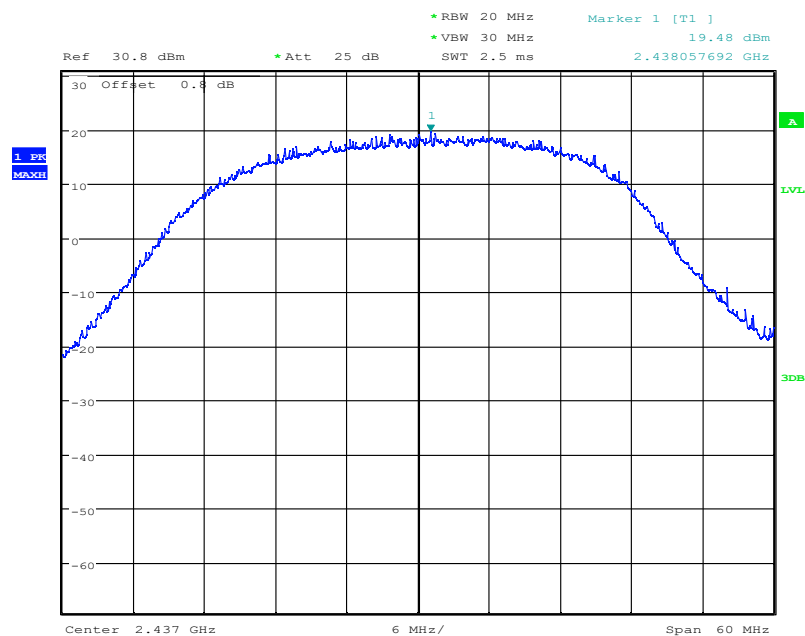
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:34:26

Fig.49 Peak Conducted Output Power CH6, 11n, MCS4



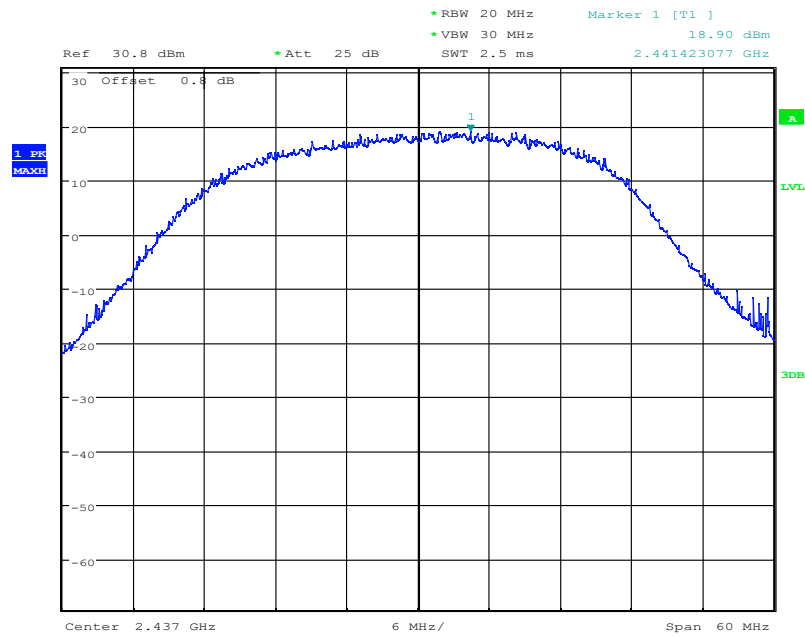
Date: 18.APR.2021 01:34:10

Fig.50 Peak Conducted Output Power CH6, 11n, MCS5

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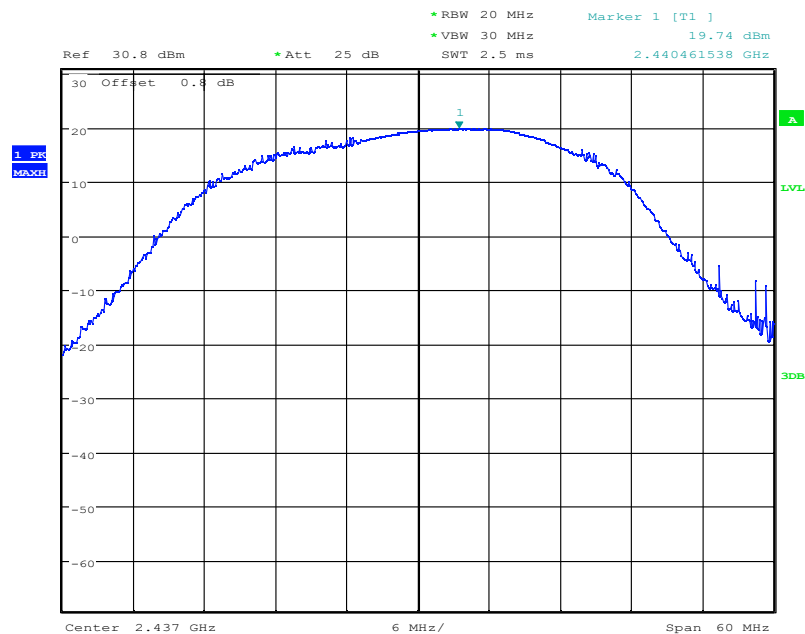
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:33:53

Fig.51 Peak Conducted Output Power CH6, 11n, MCS6



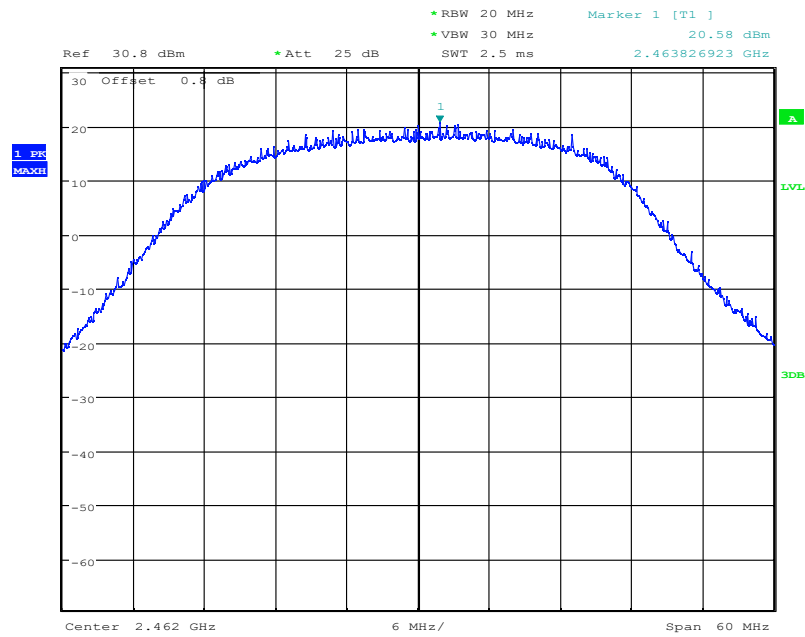
Date: 18.APR.2021 01:33:36

Fig.52 Peak Conducted Output Power CH6, 11n, MCS7

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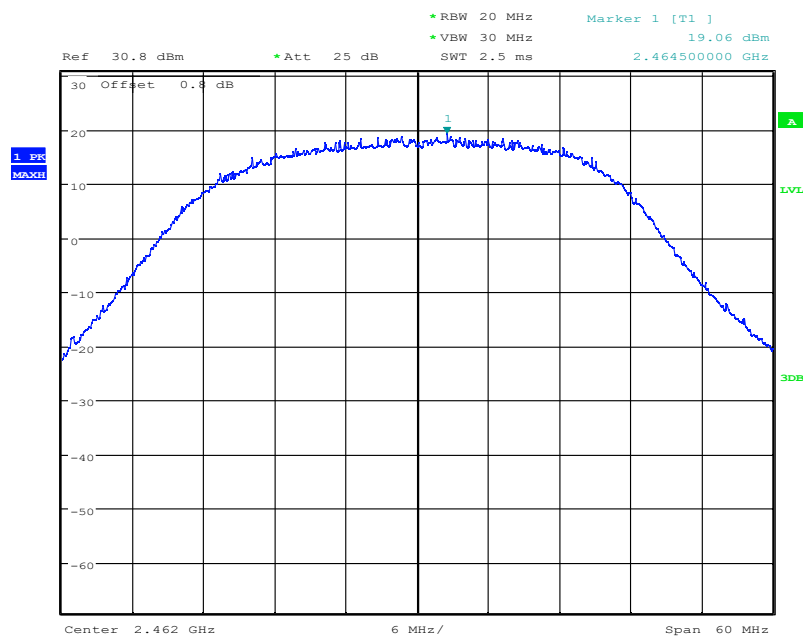
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:56:53

Fig.53 Peak Conducted Output Power CH11, 11n, MCS0



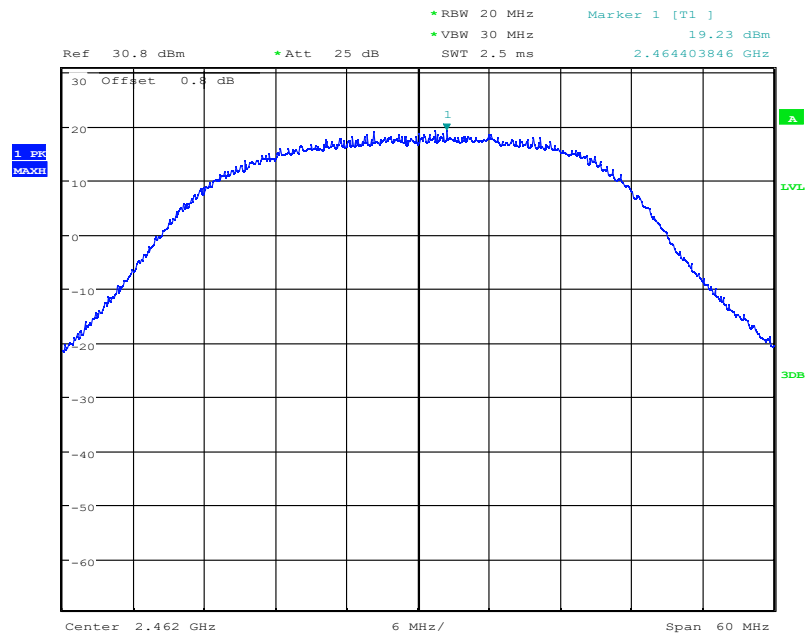
Date: 18.APR.2021 01:57:08

Fig.54 Peak Conducted Output Power CH11, 11n, MCS1

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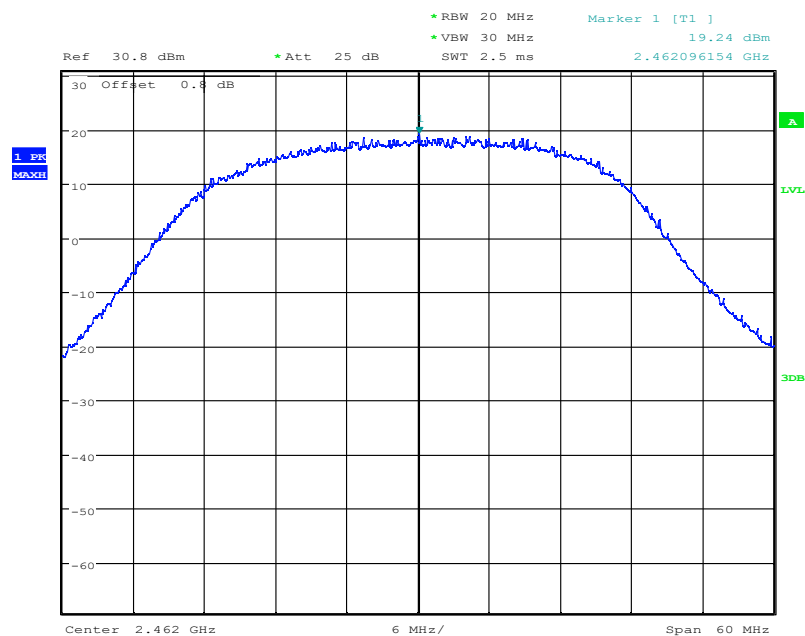
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:57:21

Fig.55 Peak Conducted Output Power CH11, 11n, MCS2



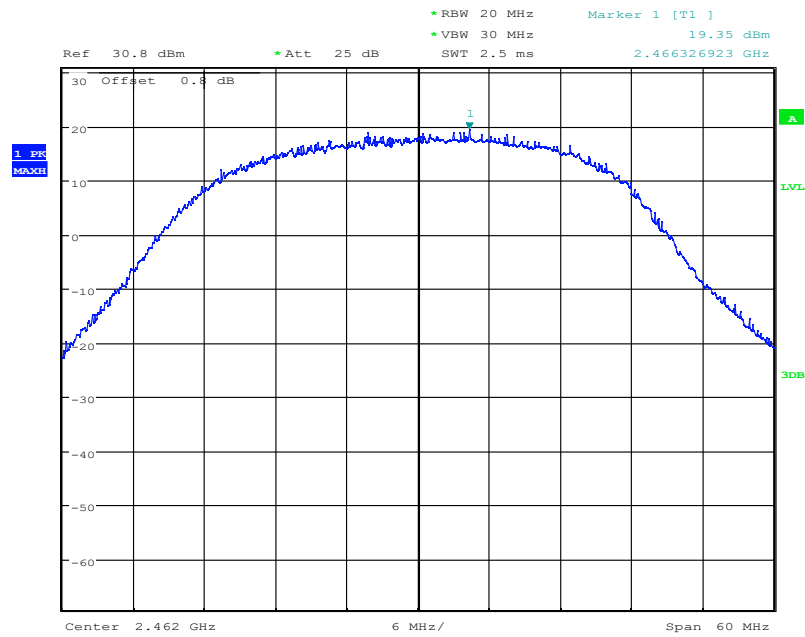
Date: 18.APR.2021 01:57:34

Fig.56 Peak Conducted Output Power CH11, 11n, MCS3

Chongqing Academy of Information and Communication Technology

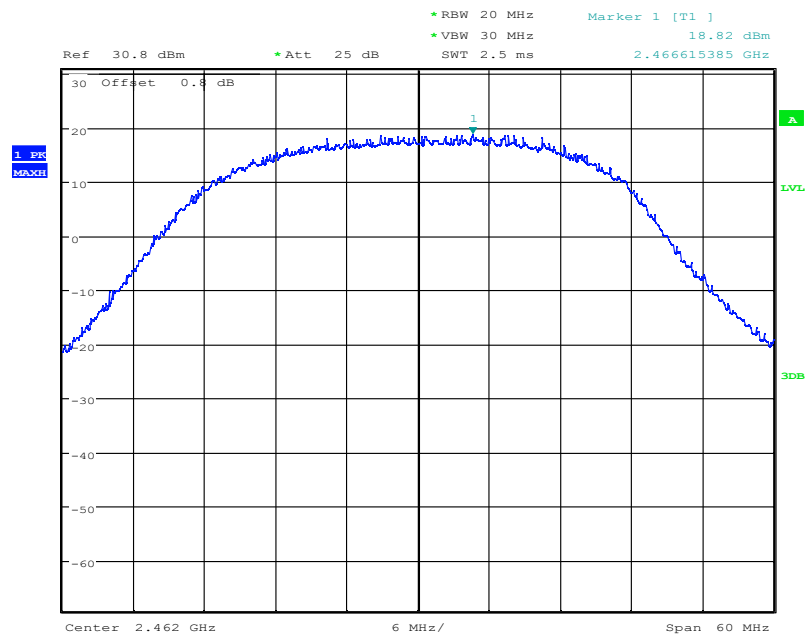
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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 01:57:49

Fig.57 Peak Conducted Output Power CH11, 11n, MCS4



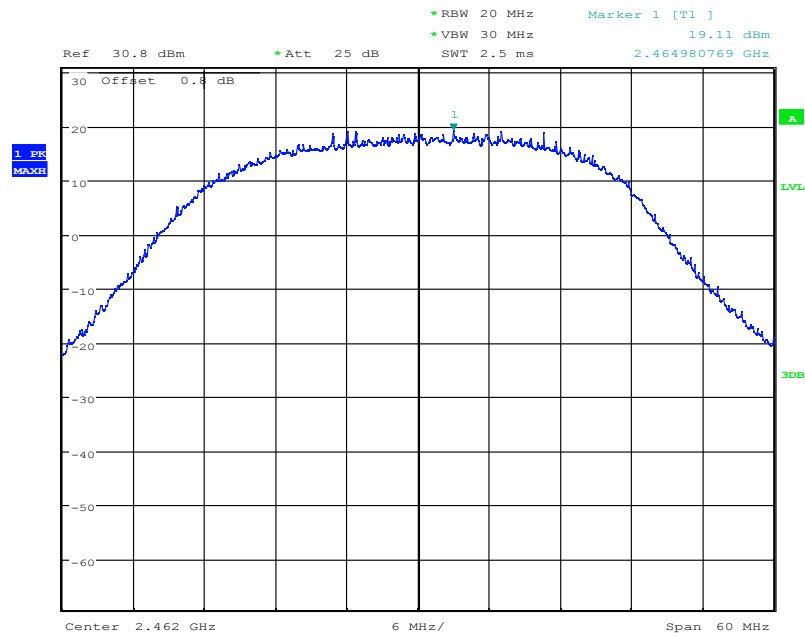
Date: 18.APR.2021 01:58:06

Fig.58 Peak Conducted Output Power CH11, 11n, MCS5

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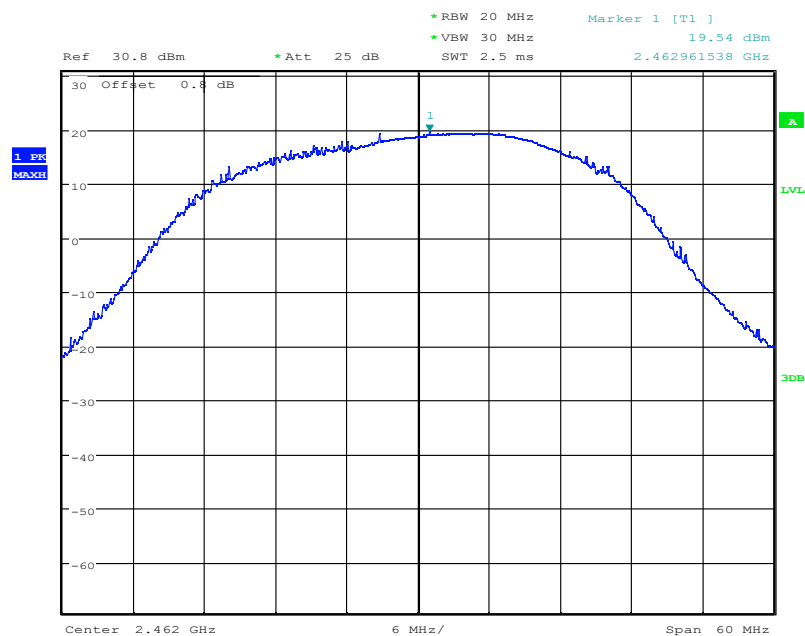
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Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 18.APR.2021 01:58:21

Fig.59 Peak Conducted Output Power CH11, 11n, MCS6



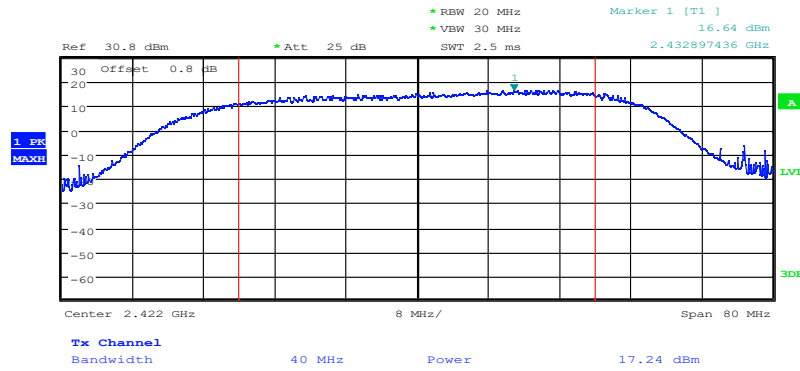
Date: 18.APR.2021 01:58:36

Fig.60 Peak Conducted Output Power CH11, 11n, MCS7

Chongqing Academy of Information and Communication Technology

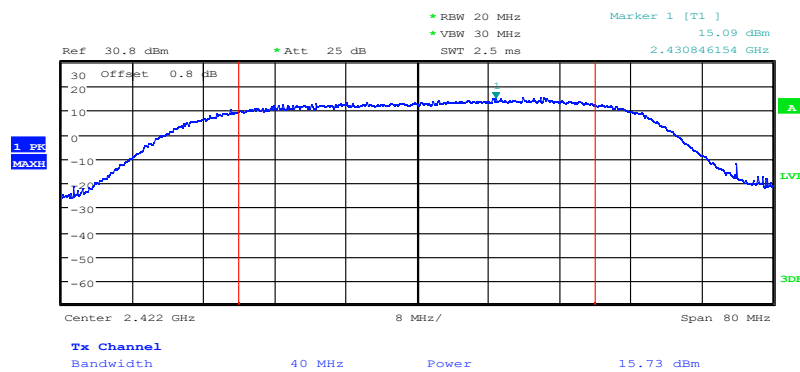
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Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 18.APR.2021 02:01:37

Fig.61 Peak Conducted Output Power CH3, 11n(40M), MCS0



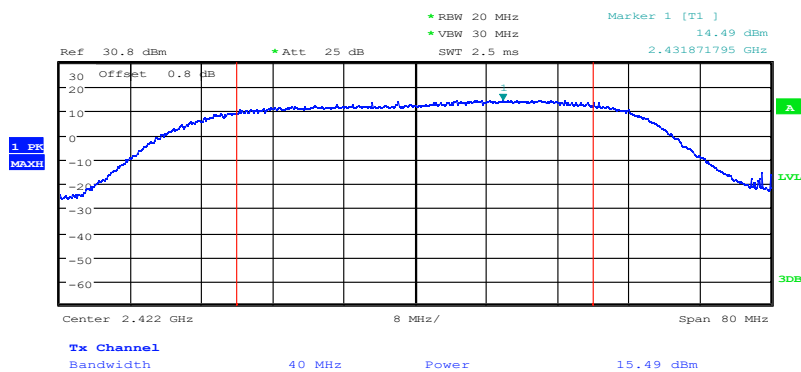
Date: 18.APR.2021 02:02:04

Fig.62 Peak Conducted Output Power CH3, 11n(40M), MCS1

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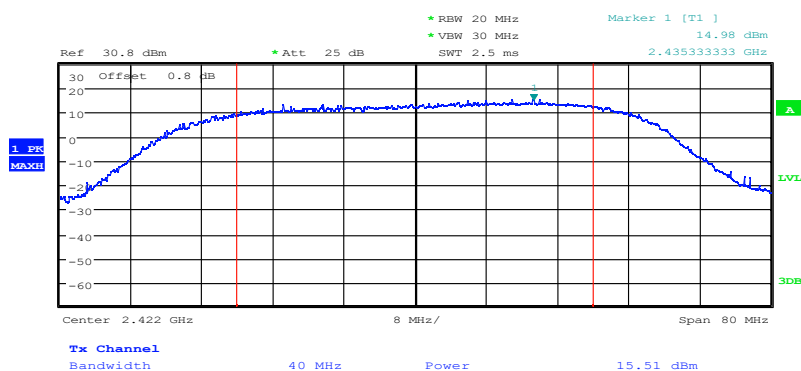
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:02:26

Fig.63 Peak Conducted Output Power CH3, 11n(40M), MCS2



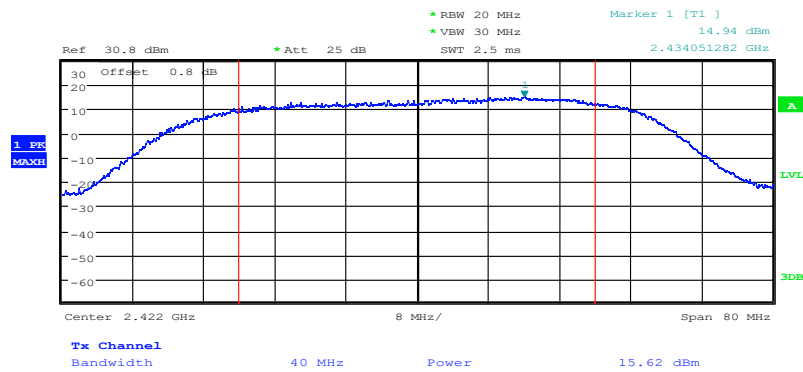
Date: 18.APR.2021 02:02:43

Fig.64 Peak Conducted Output Power CH3, 11n(40M), MCS3

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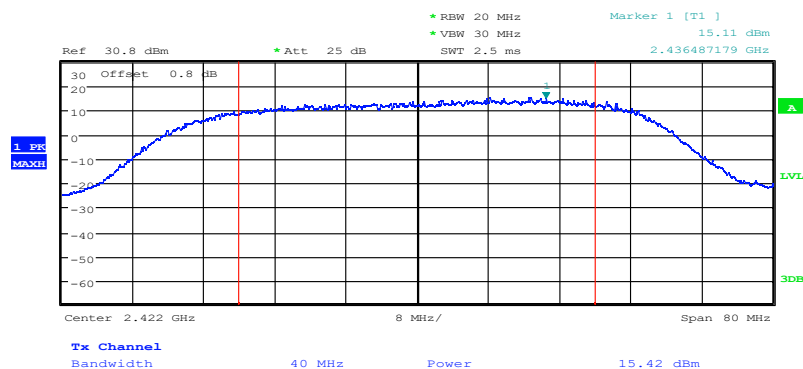
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:03:02

Fig.65 Peak Conducted Output Power CH3, 11n(40M), MCS4



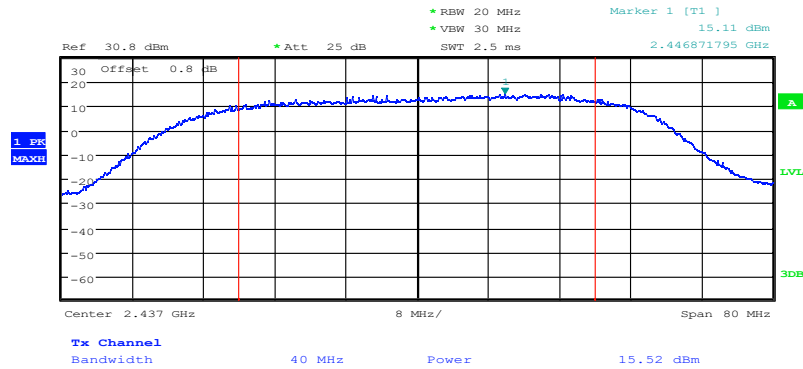
Date: 18.APR.2021 02:03:18

Fig.66 Peak Conducted Output Power CH3, 11n(40M), MCS5

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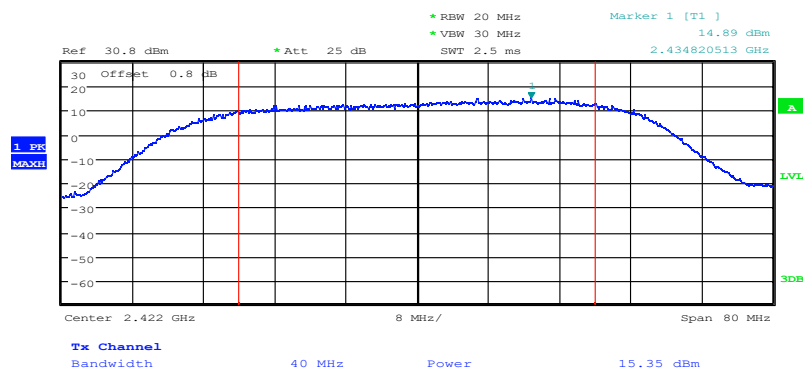
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 18.APR.2021 02:05:46

Fig.67 Peak Conducted Output Power CH3, 11n(40M), MCS6

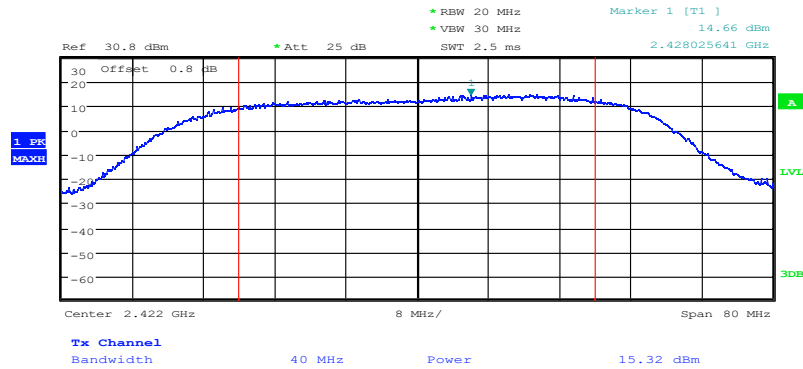


Date: 18.APR.2021 02:03:37

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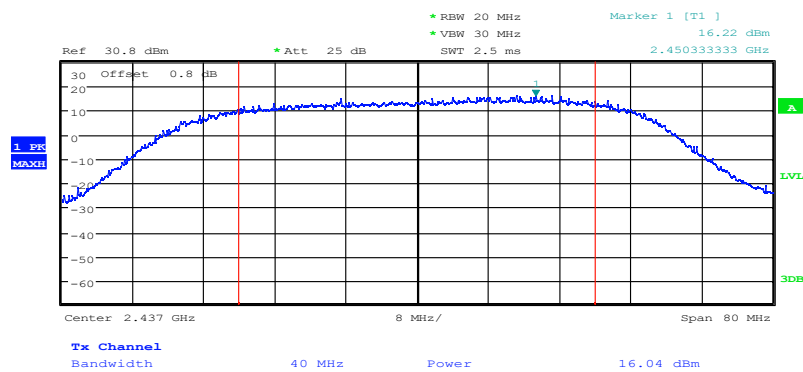
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:03:56

Fig.68 Peak Conducted Output Power CH3, 11n(40M), MCS7



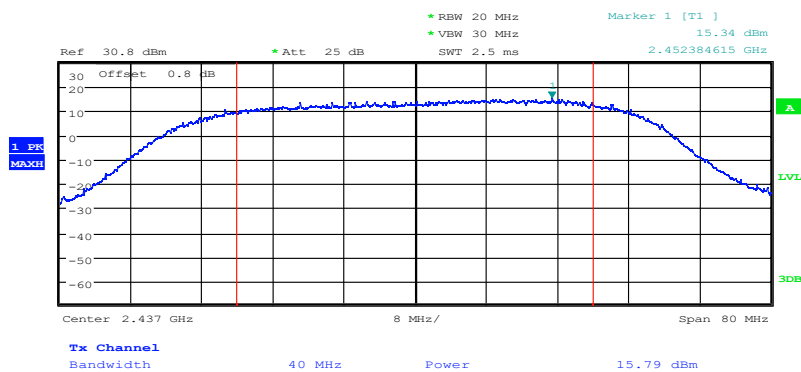
Date: 18.APR.2021 02:07:32

Fig.69 Peak Conducted Output Power CH6, 11n(40M), MCS0

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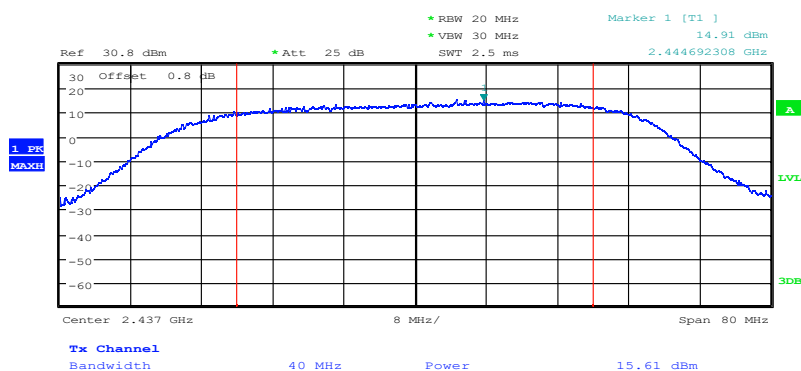
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:07:16

Fig.70 Peak Conducted Output Power CH6, 11n(40M), MCS1



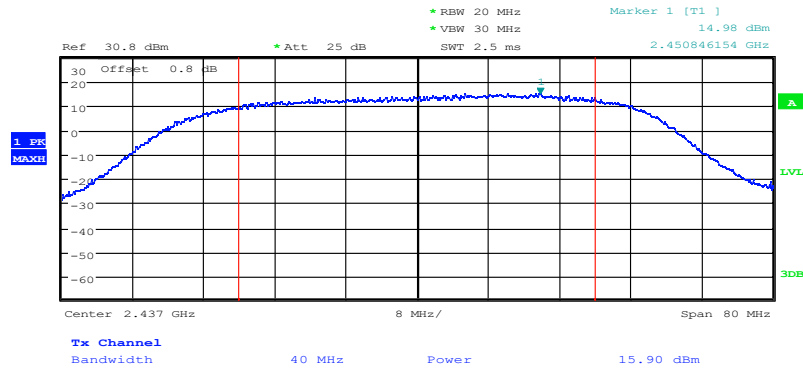
Date: 18.APR.2021 02:07:00

Fig.71 Peak Conducted Output Power CH6, 11n(40M), MCS2

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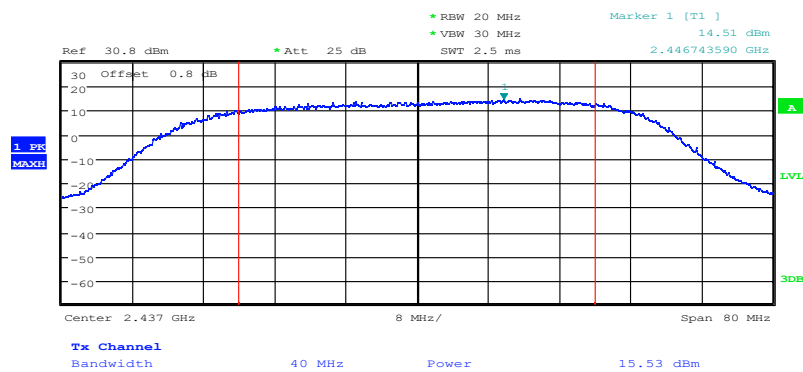
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:06:44

Fig.72 Peak Conducted Output Power CH6, 11n(40M), MCS3



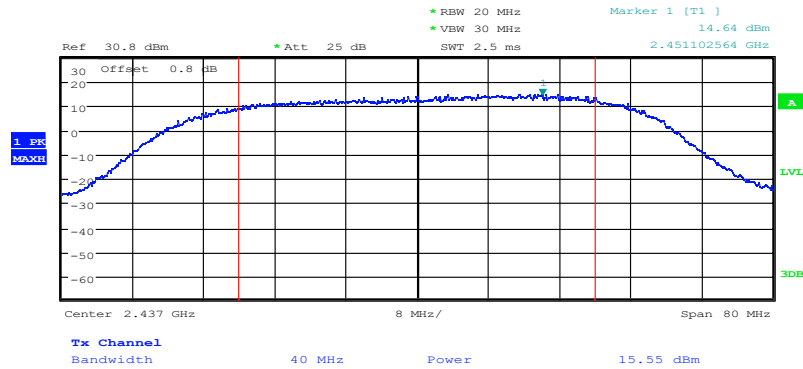
Date: 18.APR.2021 02:06:22

Fig.73 Peak Conducted Output Power CH6, 11n(40M), MCS4

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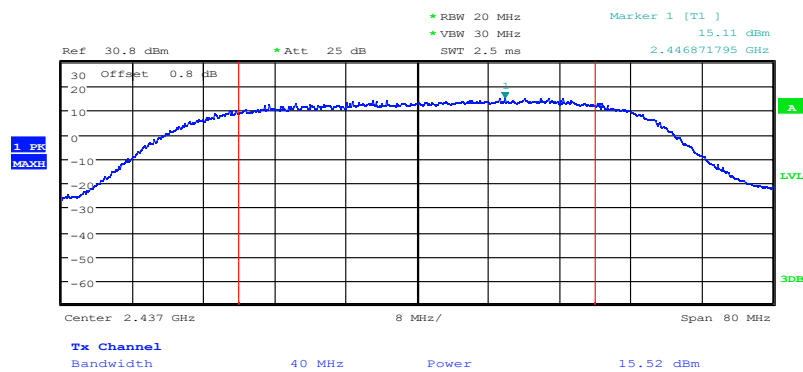
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:06:04

Fig.74 Peak Conducted Output Power CH6, 11n(40M), MCS5



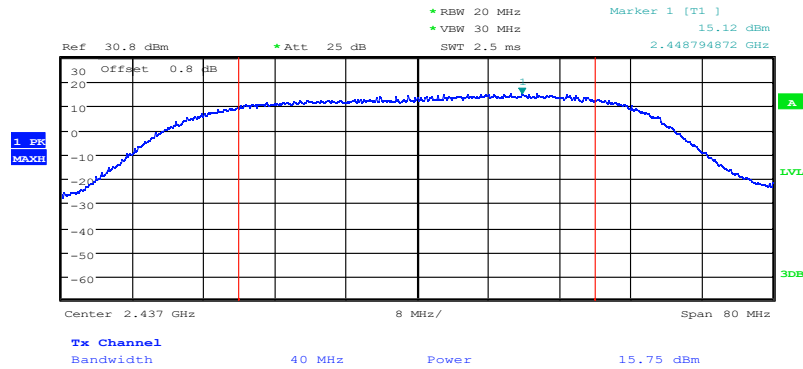
Date: 18.APR.2021 02:05:46

Fig.75 Peak Conducted Output Power CH6, 11n(40M), MCS6

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Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:05:28

Fig.76 Peak Conducted Output Power CH6, 11n(40M), MCS7



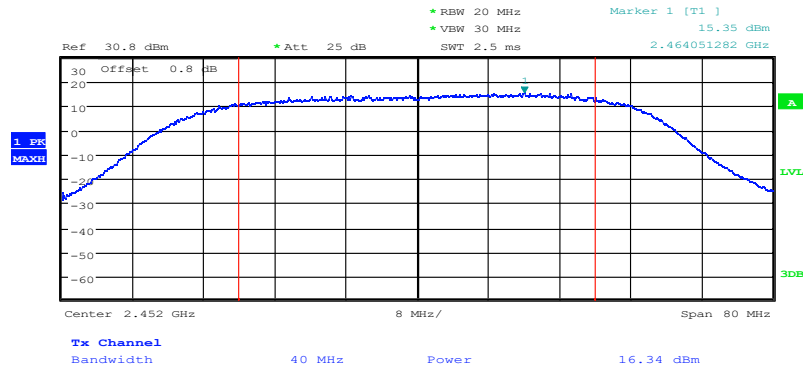
Date: 18.APR.2021 02:08:17

Fig.77 Peak Conducted Output Power CH9, 11n(40M), MCS0

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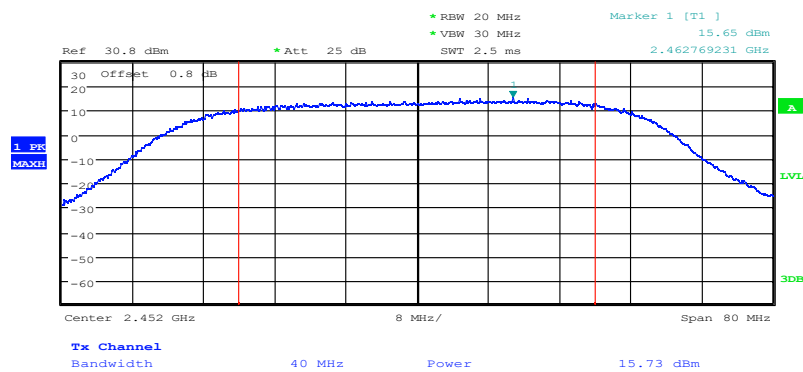
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:08:43

Fig.78 Peak Conducted Output Power CH9, 11n(40M), MCS1



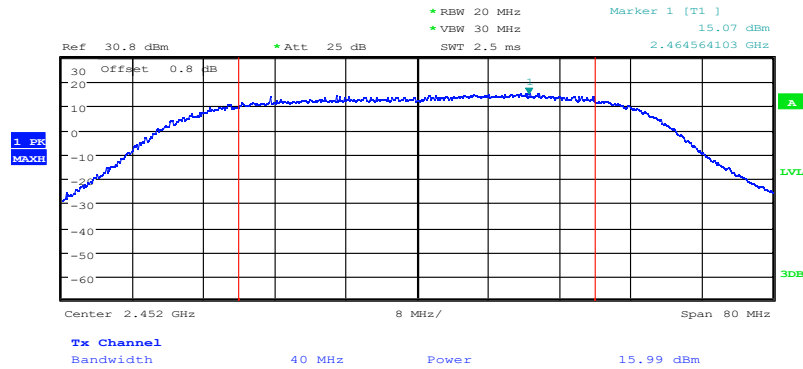
Date: 18.APR.2021 02:08:56

Fig.79 Peak Conducted Output Power CH9, 11n(40M), MCS2

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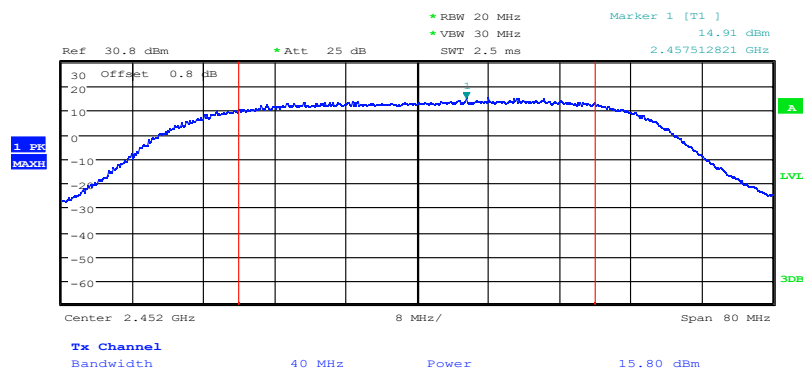
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:09:14

Fig.80 Peak Conducted Output Power CH9, 11n(40M), MCS3



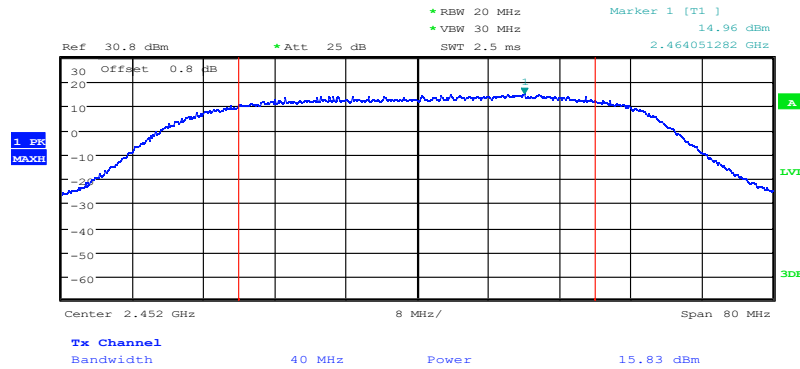
Date: 18.APR.2021 02:09:30

Fig.81 Peak Conducted Output Power CH9, 11n(40M), MCS4

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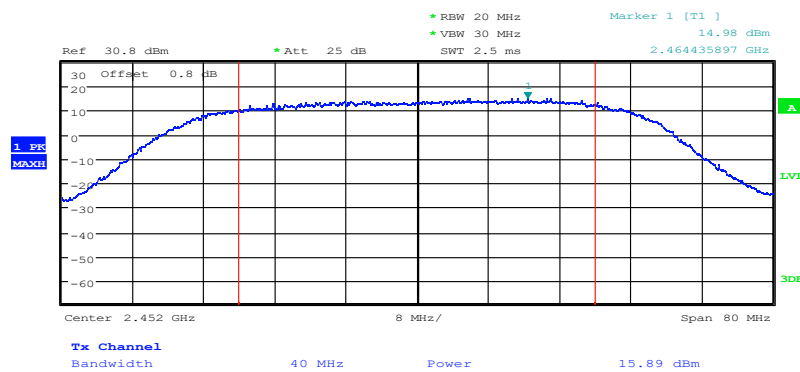
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:09:46

Fig.82 Peak Conducted Output Power CH9, 11n(40M), MCS5



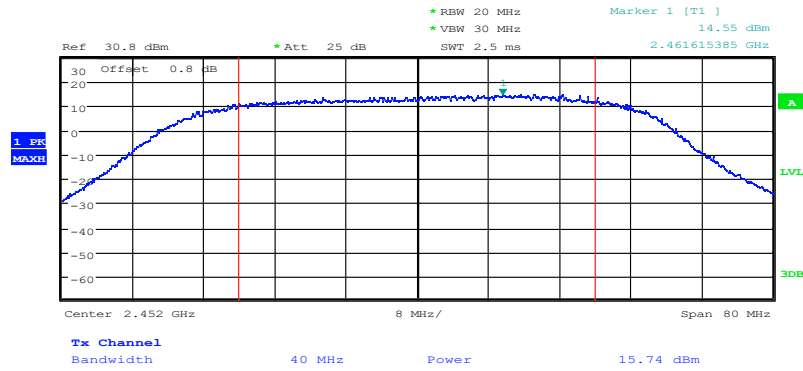
Date: 18.APR.2021 02:10:08

Fig.83 Peak Conducted Output Power CH9, 11n(40M), MCS6

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Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:10:27

Fig.84 Peak Conducted Output Power CH9, 11n(40M), MCS7

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Report No.:I21W00006-WLAN_Rev2**5.2 Peak Power Spectral Density**

Specifications:	FCC CFR Part 15.247(e)
DUT Serial Number:	866884045632486
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC CFR Part 15.247(e)	< 8dBm/3 KHz

Measurement Uncertainty:

Measurement Uncertainty	±0.82dBm/KHz
-------------------------	--------------

Test procedure:

The measurement is according to ANSI C63.10 clause 11.10.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Note: --

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Report No.:I21W00006-WLAN_Rev2**Test Results:****802.11b/g/n mode**

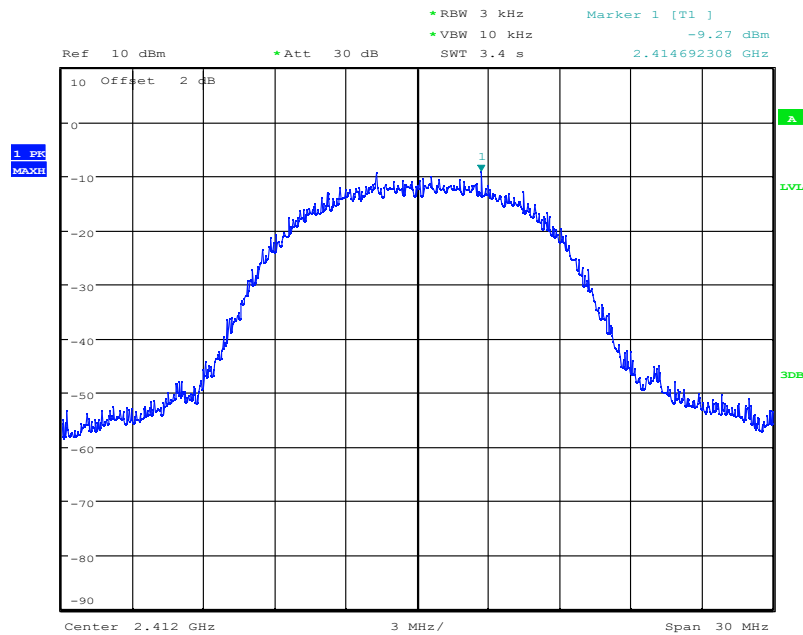
Mode	Power Spectral Density(dBm/3kHz)			Conclusion
	Ch1	Ch6	Ch11	
802.11b	-9.27	-9.61	-10.09	Pass
802.11g	-14.93	-14.73	-14.94	Pass
802.11n(20MHz)	-15.99	-15.96	-15.01	Pass

Mode	Power Spectral Density(dBm/3kHz)			Conclusion
	Ch3	Ch7	Ch9	
802.11n(40MHz)	-21.64	-20.74	-21.32	Pass

Conclusion: PASS

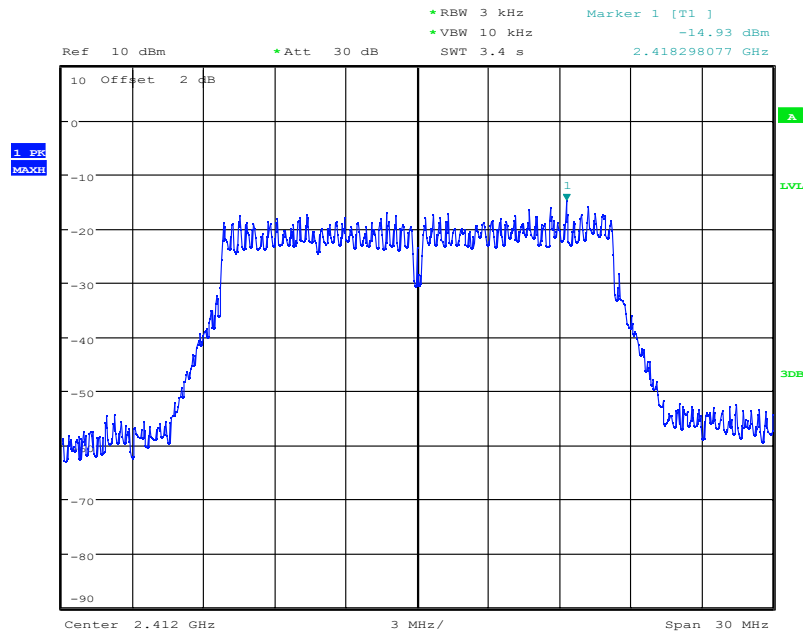
Report No.:I21W00006-WLAN_Rev2

Test figure as below:



Date: 27.MAR.2021 02:39:10

Fig.85 Power spectral density: CH1,11b



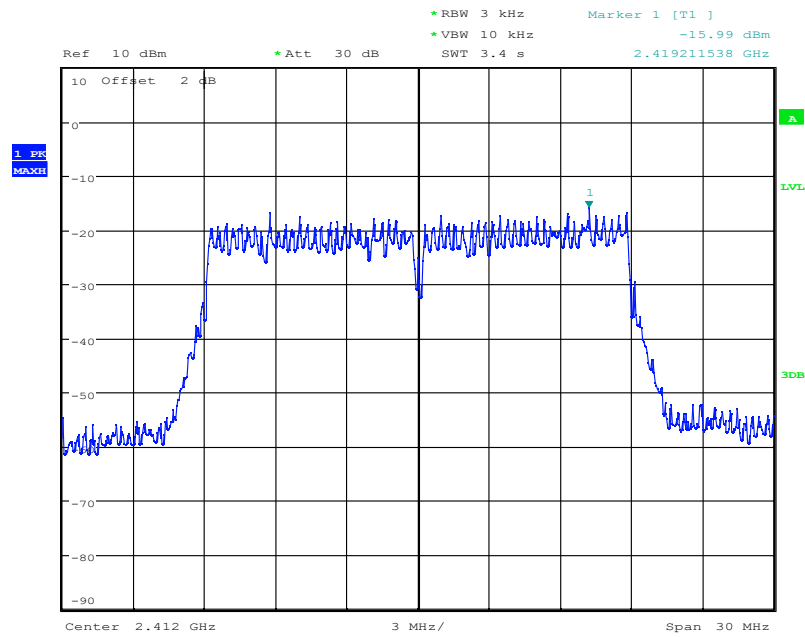
Date: 27.MAR.2021 02:44:21

Fig.86 Power spectral density: CH1,11g

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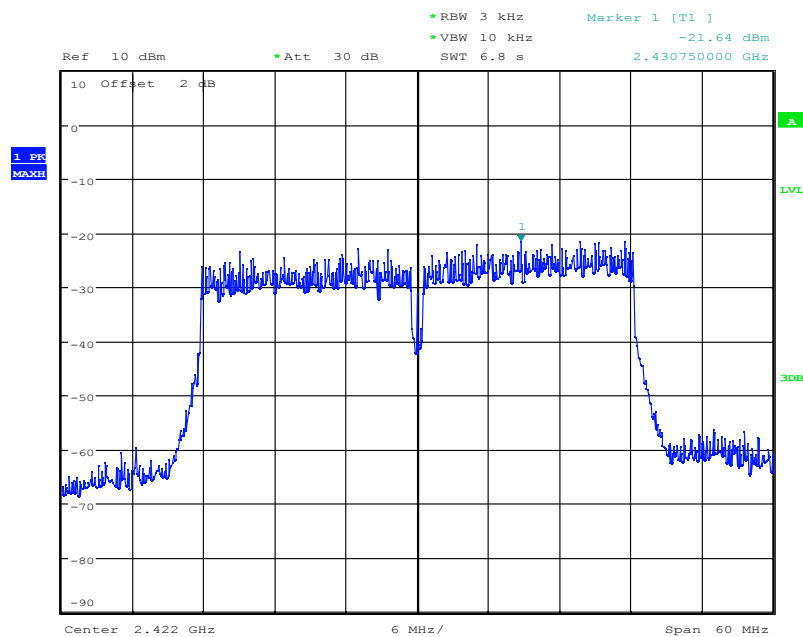
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:45:15

Fig.87 Power spectral density: CH1,11n



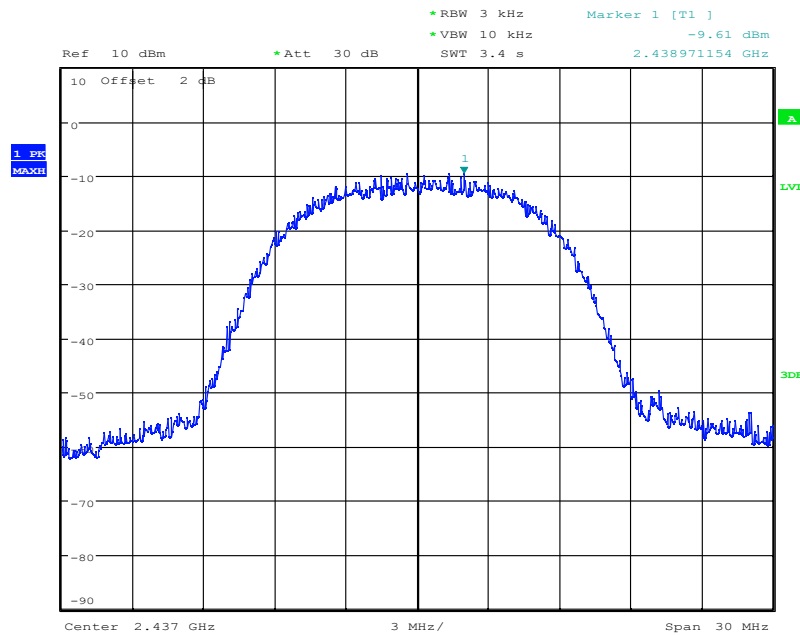
Date: 27.MAR.2021 02:47:59

Fig.88 Power spectral density: CH3,11n(40M)

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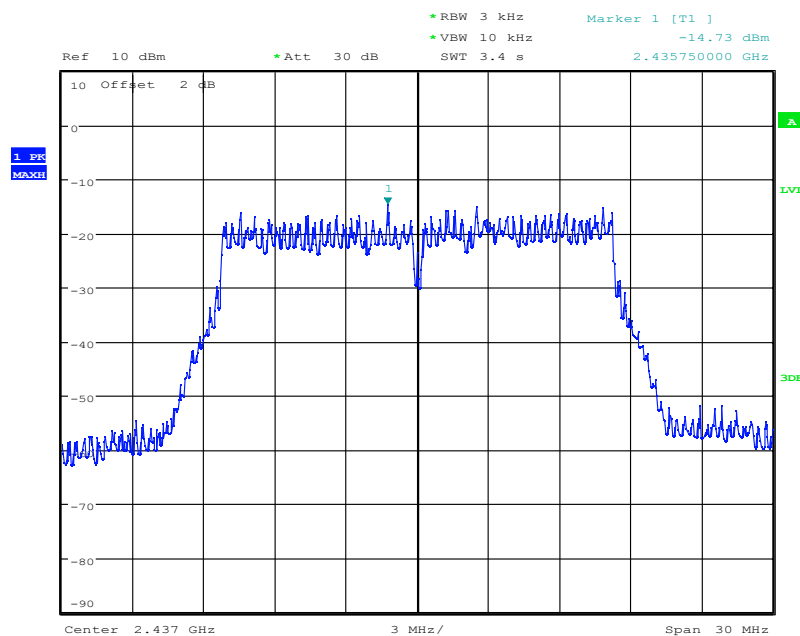
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:40:36

Fig.89 Power spectral density: CH6,11b



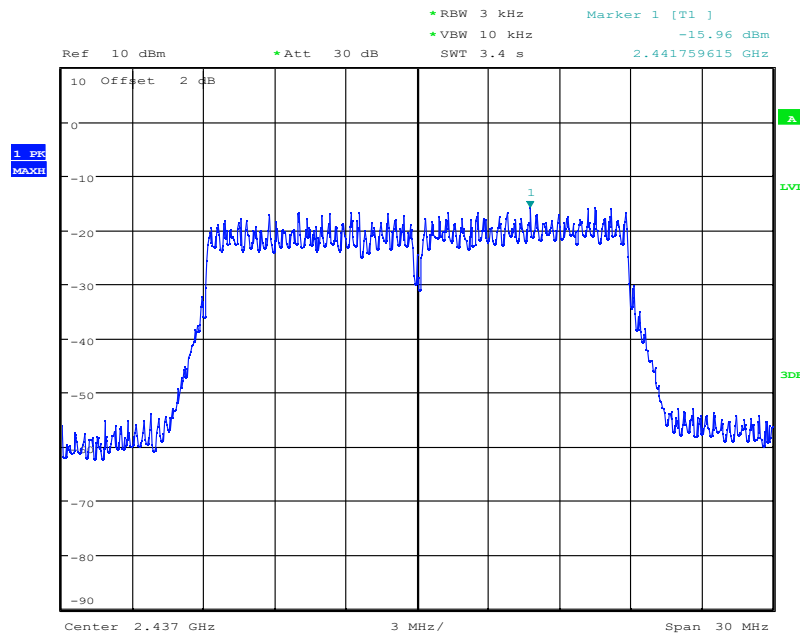
Date: 27.MAR.2021 02:43:34

Fig.90 Fig.66 Power spectral density: CH6,11g

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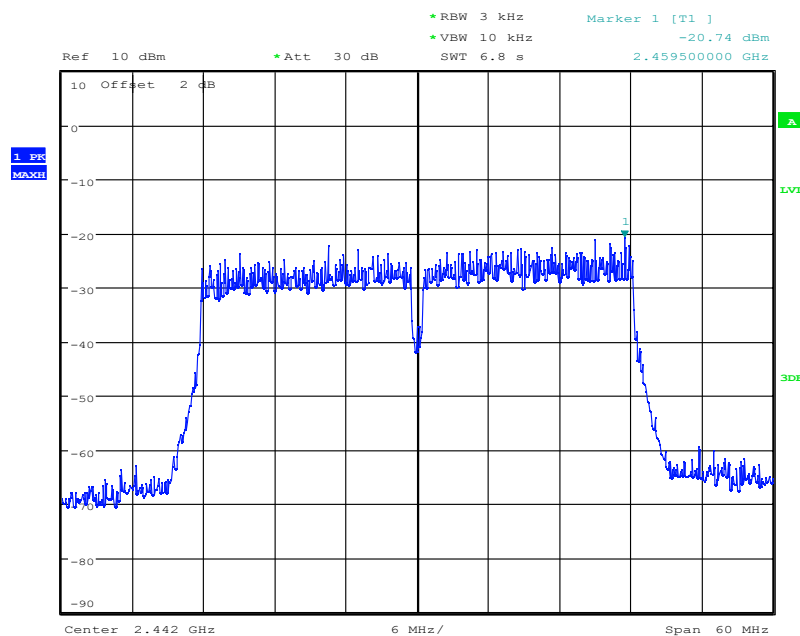
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:46:11

Fig.91 Power spectral density: CH6,11n



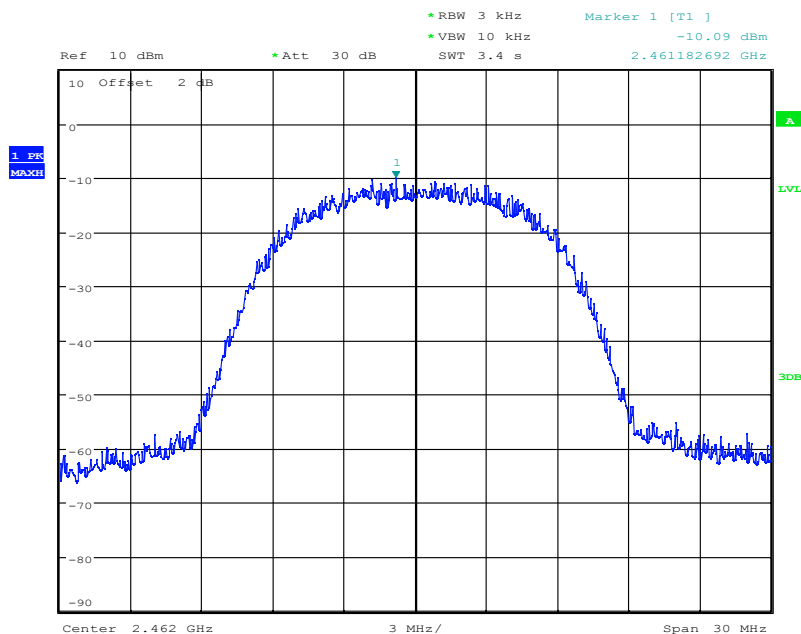
Date: 27.MAR.2021 02:50:33

Fig.92 Power spectral density: CH7,11n(40M)

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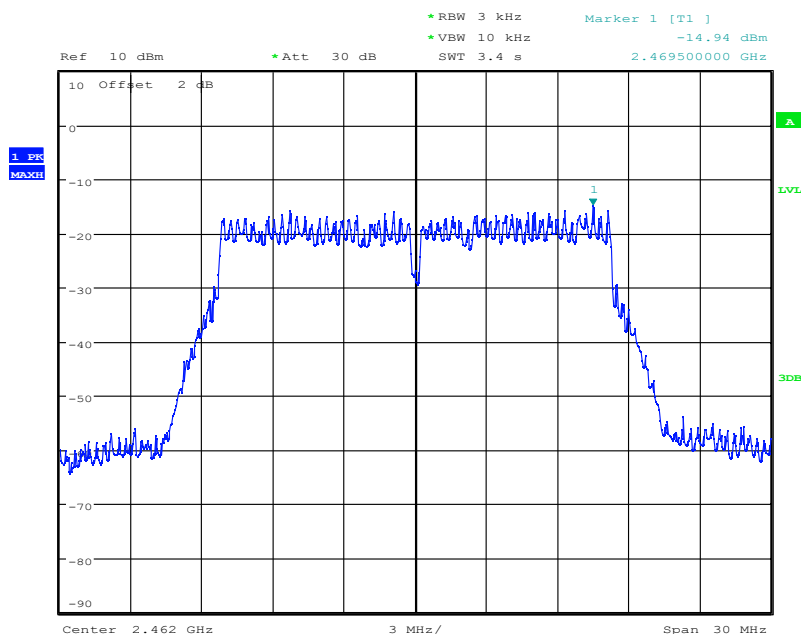
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:41:12

Fig.93 Power spectral density: CH11,11b



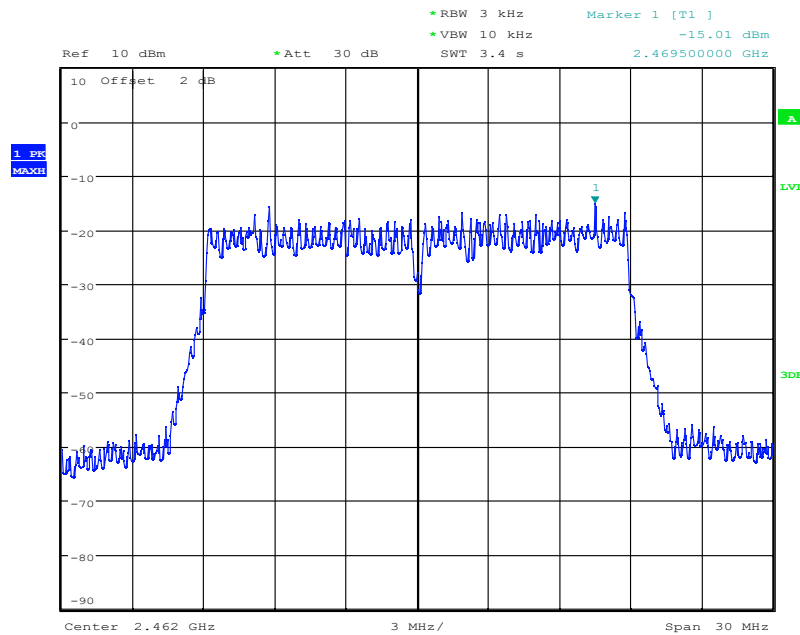
Date: 27.MAR.2021 02:42:47

Fig.94 Power spectral density: CH11,11g

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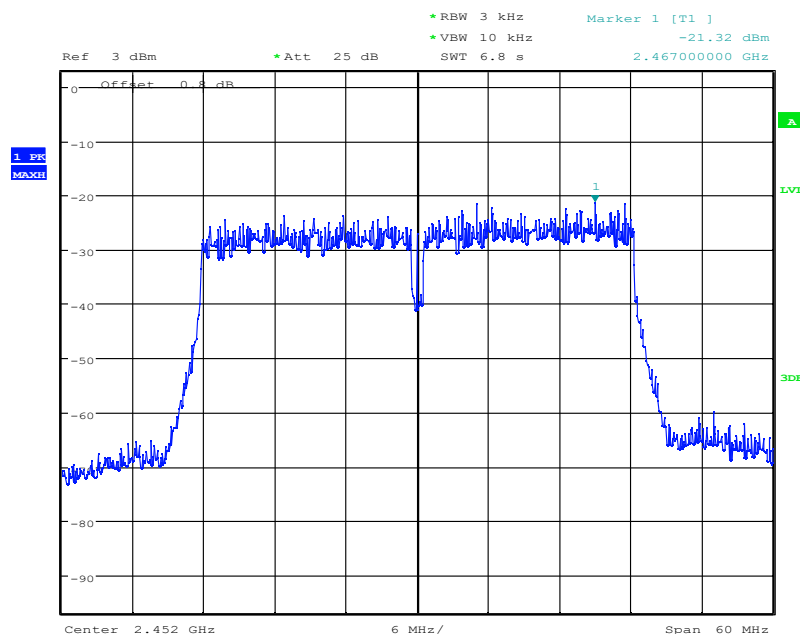
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:46:43

Fig.95 Power spectral density: CH11,11n



Date: 18.APR.2021 02:16:01

Fig.96 Power spectral density: CH9,11n(40M)

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Report No.:I21W00006-WLAN_Rev2**5.3 6dB Occupied Bandwidth**

Specifications:	FCC 47 CFR Part 15.247(a)
DUT Serial Number:	866884045632486
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit(KHz)
FCC 47 CFR Part 15.247(a)	≥500

Measurement Uncertainty:

Measurement Uncertainty	±1.1KHz
-------------------------	---------

Test Procedure

The measurement is according to ANSI C63.10 clause 11.8.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: --

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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2**Test Result:****802.11b/g/n mode**

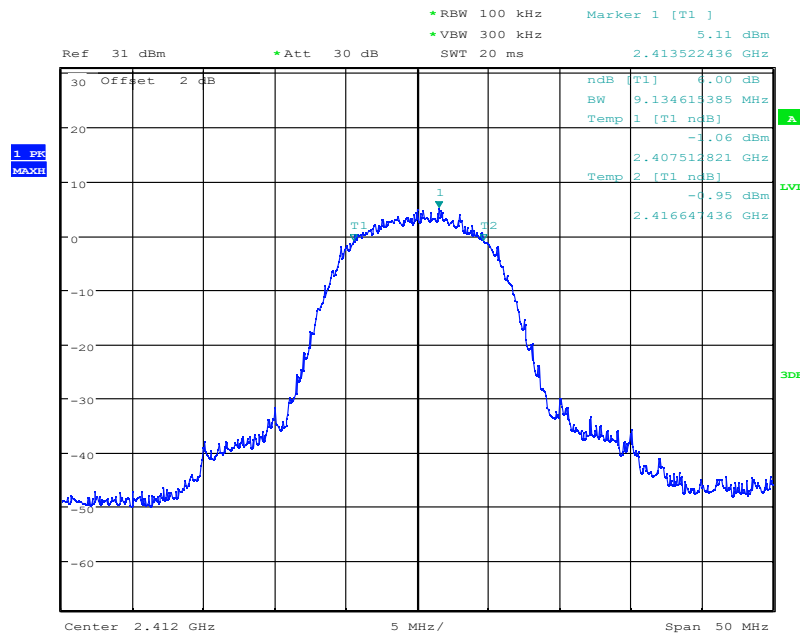
Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch1	Ch6	Ch11	
802.11b	9.13	9.61	9.61	Pass
802.11g	8.09	8.09	8.09	Pass
802.11n(20MHz)	8.73	8.73	8.73	Pass

Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch3	Ch7	Ch9	
802.11n(40MHz)	28.59	28.72	31.28	Pass

Conclusion: PASS

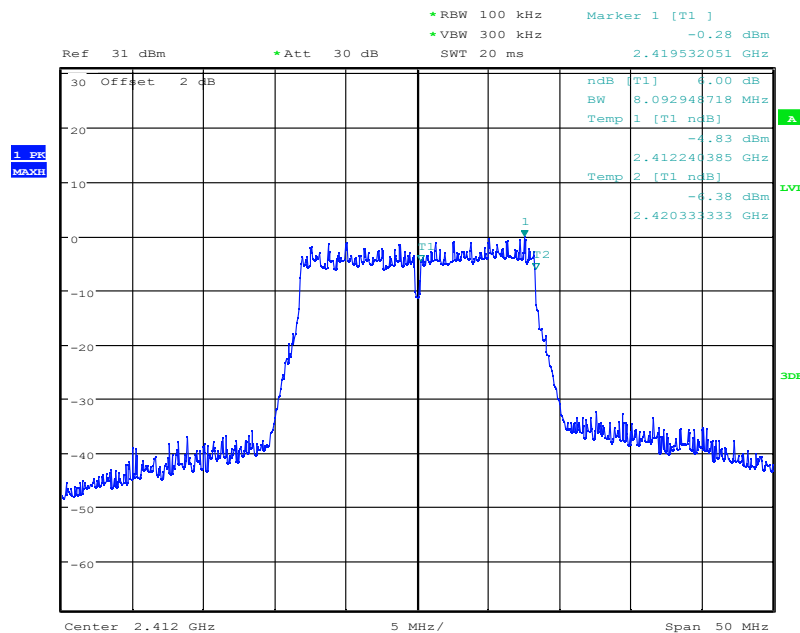
Report No.:I21W00006-WLAN_Rev2

Test figure as below:



Date: 27.MAR.2021 03:13:39

Fig.97 6dB Bandwidth: Ch1,11b



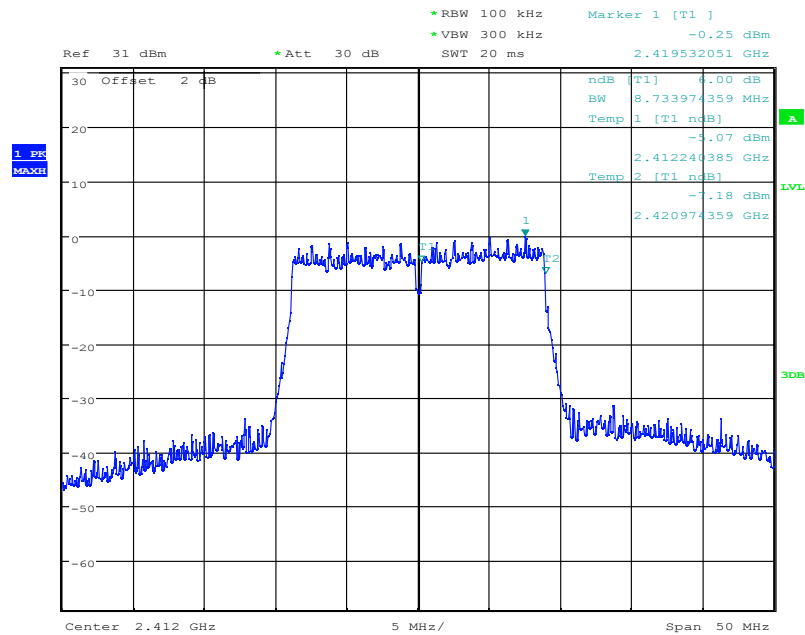
Date: 27.MAR.2021 03:13:04

Fig.98 6dB Bandwidth: Ch1,11g

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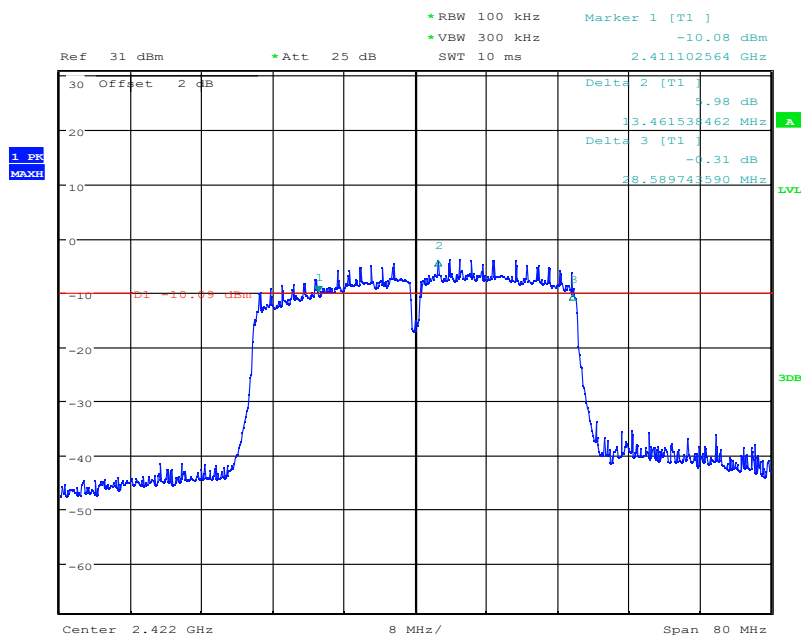
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:10:10

Fig.99 6dB Bandwidth: Ch1,11n



Date: 10.MAY.2021 11:00:43

Fig.100 6dB Bandwidth: Ch3,11n(40M)

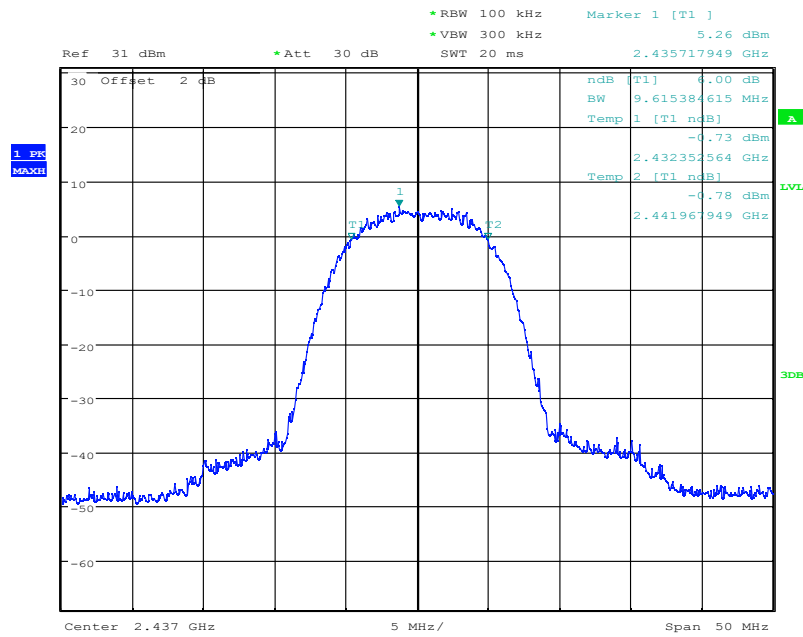
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Tel: 0086-23-88069965

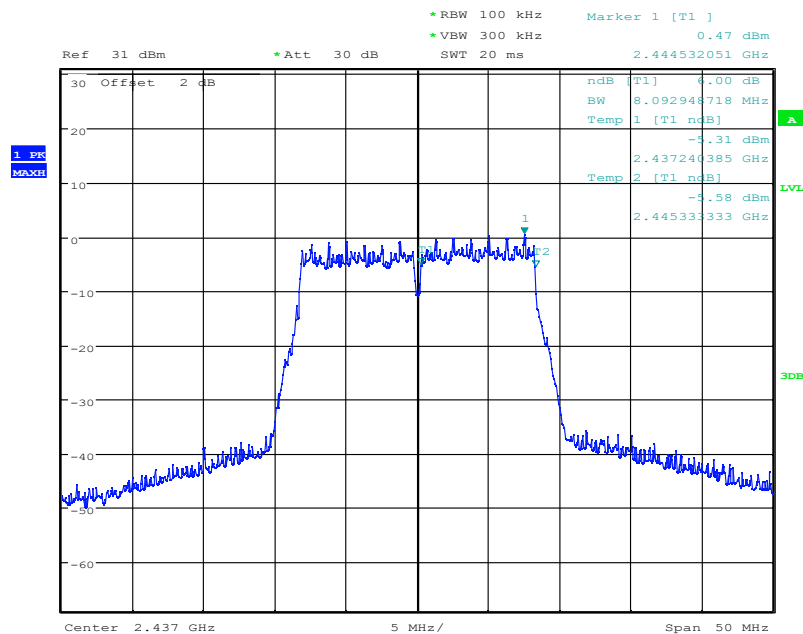
FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:15:08

Fig.101 6dB Bandwidth: Ch6,11b



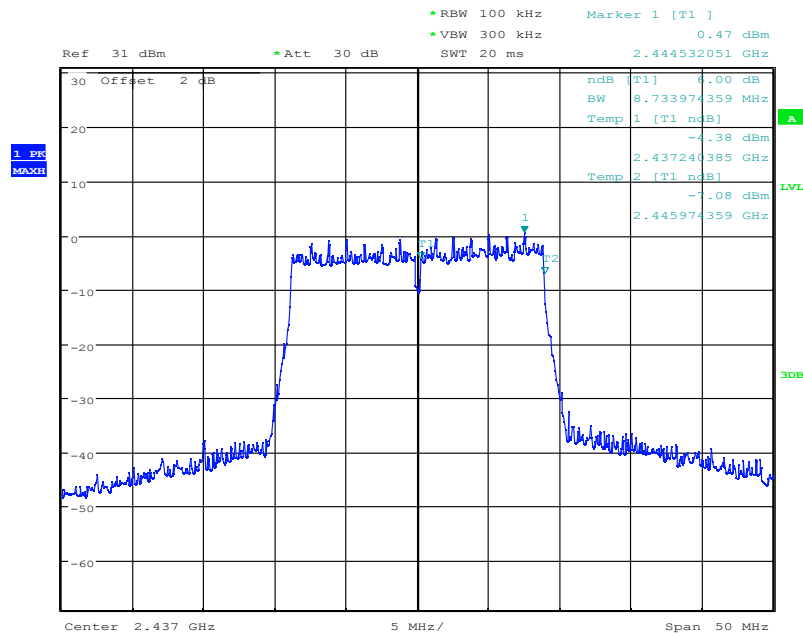
Date: 27.MAR.2021 03:12:35

Fig.102 6dB Bandwidth: Ch6,11g

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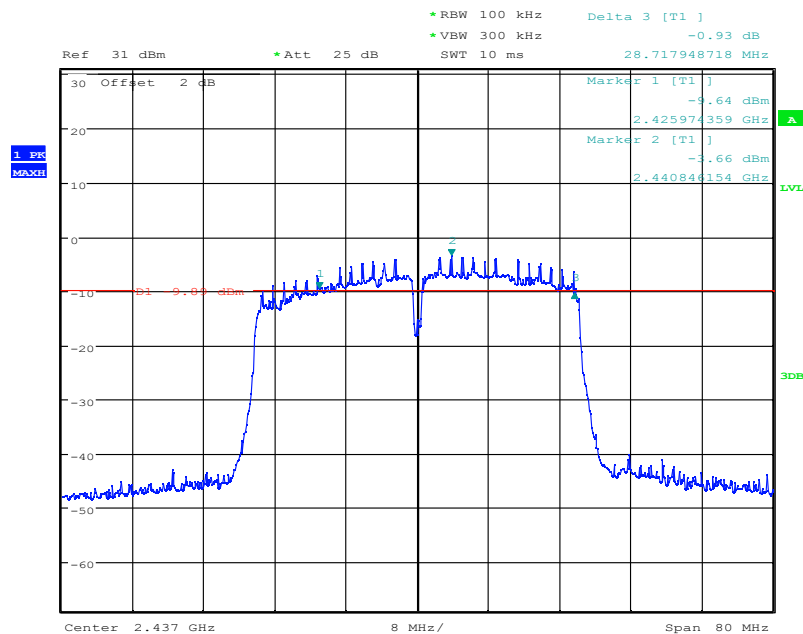
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:11:03

Fig.103 6dB Bandwidth: Ch6,11n



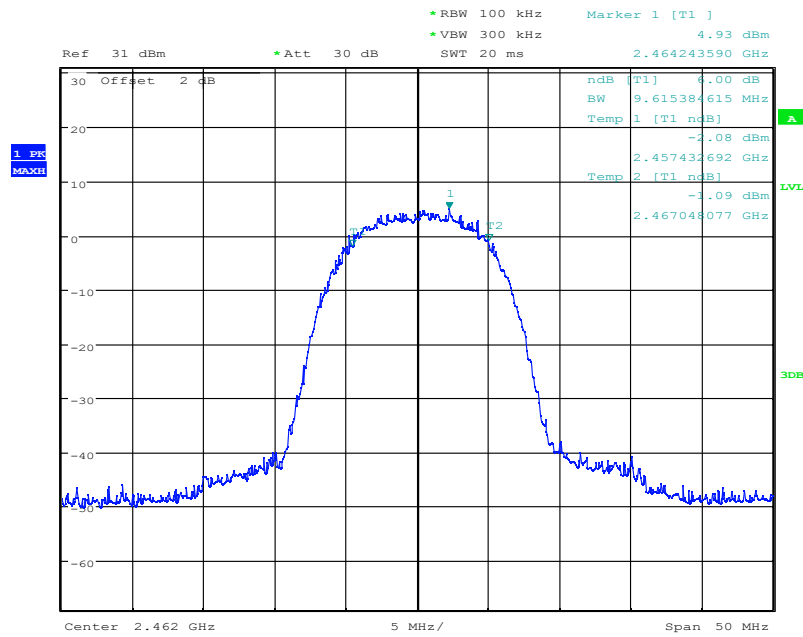
Date: 10.MAY.2021 11:02:50

Fig.104 6dB Bandwidth: Ch7,11n(40M)

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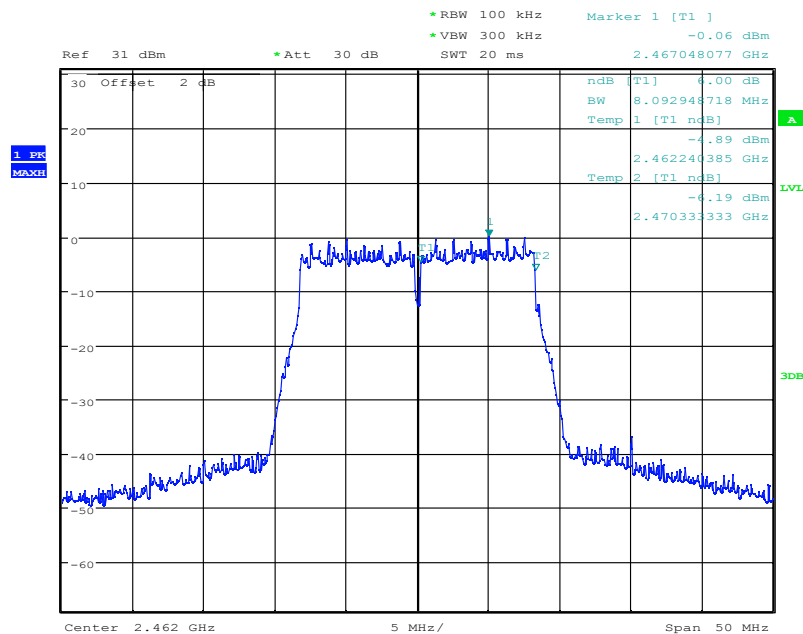
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:15:42

Fig.105 6dB Bandwidth: Ch11,11b



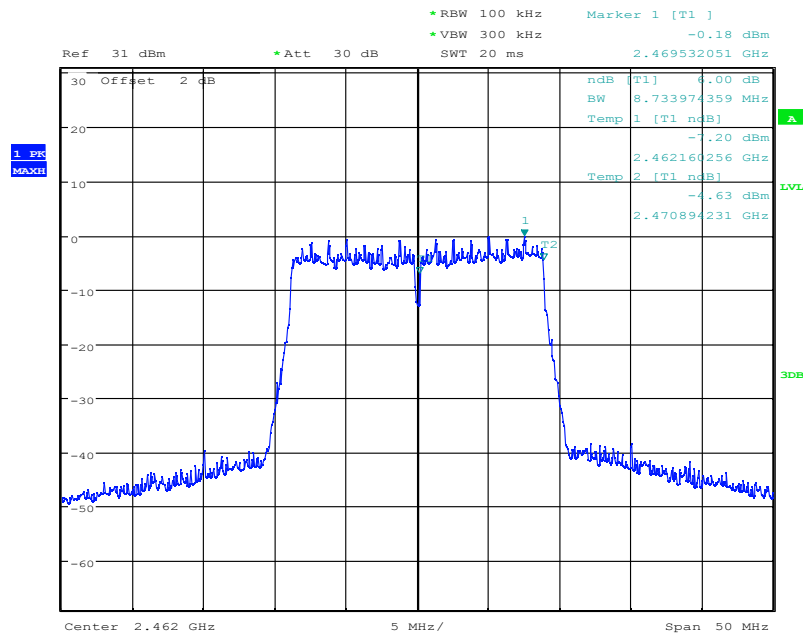
Date: 27.MAR.2021 03:12:10

Fig.106 6dB Bandwidth: Ch11,11g

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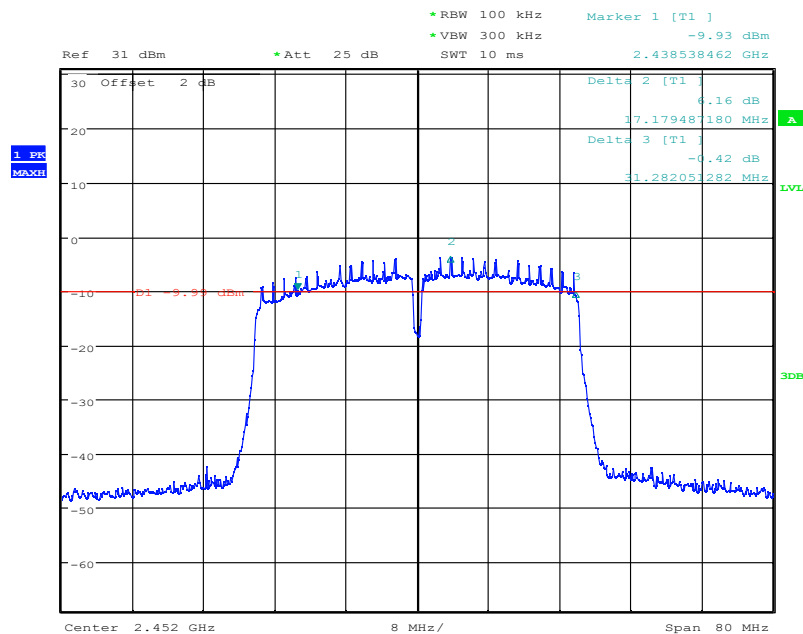
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:11:40

Fig.107 6dB Bandwidth: Ch11,11n



Date: 10.MAY.2021 11:05:52

Fig.108 6dB Bandwidth: Ch9,11n(40M)

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 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2**5.4 99% Occupied Bandwidth**

DUT Serial Number:	866884045632486
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit Level Construction: --**Measurement Uncertainty:**

Measurement Uncertainty	$\pm 1.1\text{KHz}$
-------------------------	---------------------

Test Procedure

- 1.The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2.Enable EUT transmitter maximum power continuously.
- 3.Set RBW = 200 kHz.
- 4.Set the VBW $\geq [3 \times \text{RBW}]$.
- 5.Detector = Sample.
- 6.Trace mode = max hold.
- 7.Sweep = auto couple.
- 8.Allow the trace to stabilize.

Note: --**Chongqing Academy of Information and Communication Technology**

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Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2**Test Result:****802.11b/g/n mode**

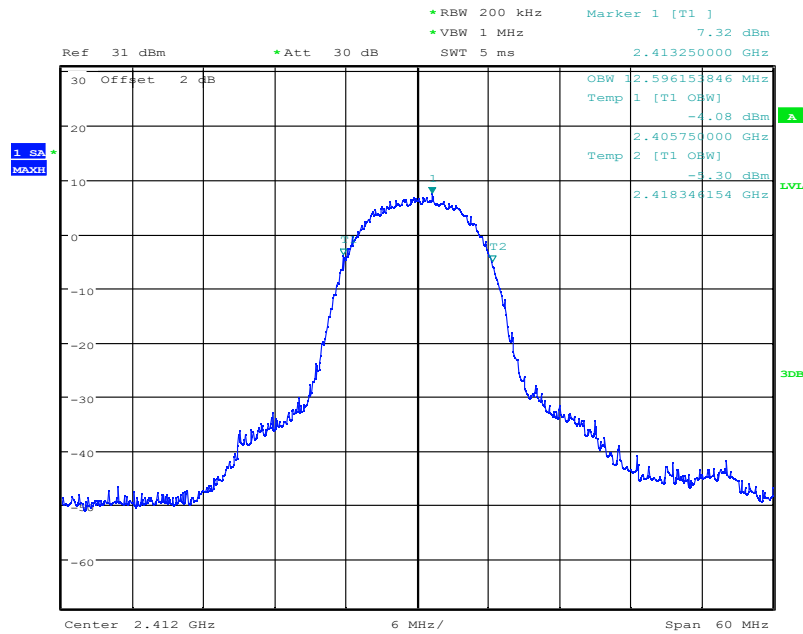
Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch1	Ch6	Ch11	
802.11b	12.59	12.40	12.30	Pass
802.11g	16.82	16.63	16.73	Pass
802.11n(20MHz)	17.78	17.78	17.69	Pass

Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch3	Ch7	Ch9	
802.11n(40MHz)	36.15	36.15	36.83	Pass

Conclusion: PASS

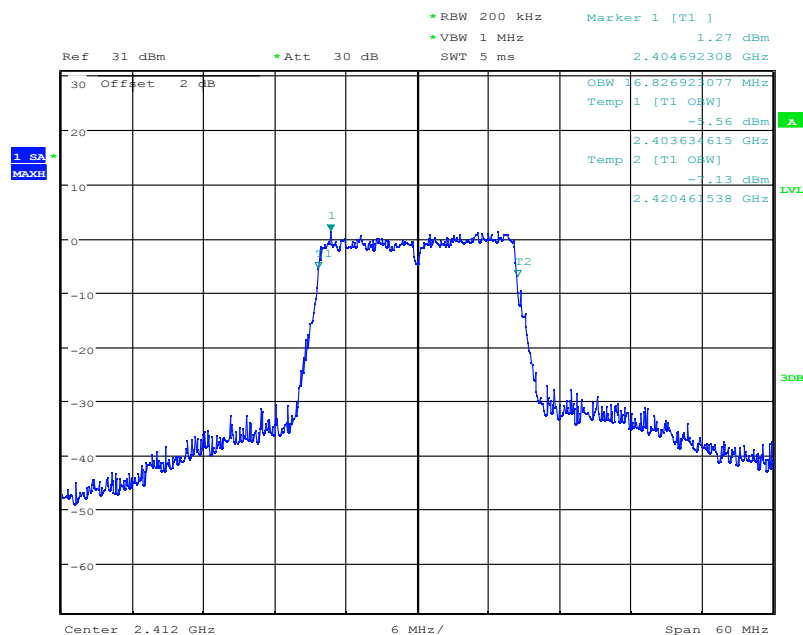
Report No.:I21W00006-WLAN_Rev2

Test figure as below:



Date: 27.MAR.2021 02:56:42

Fig.109 99% Occupied Bandwidth: Ch1,11b



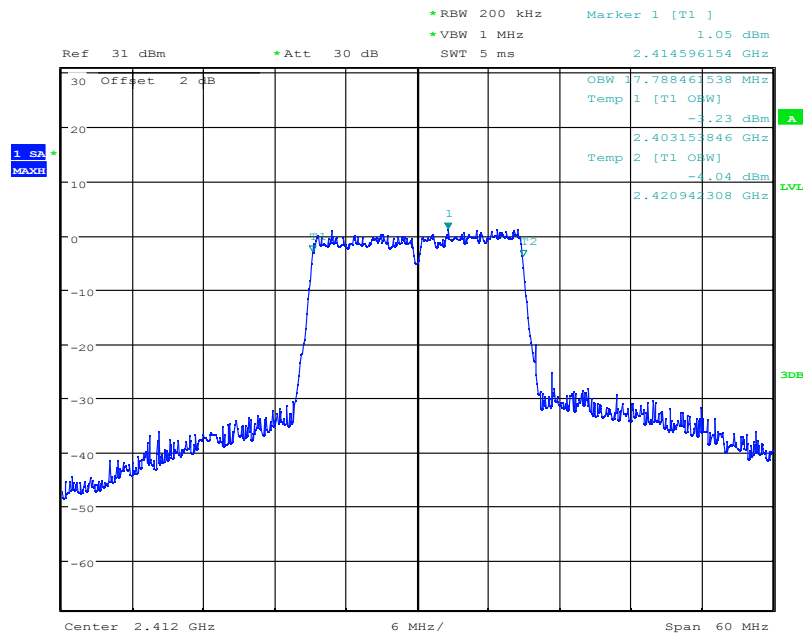
Date: 27.MAR.2021 02:59:42

Fig.110 99% Occupied Bandwidth: Ch1,11g

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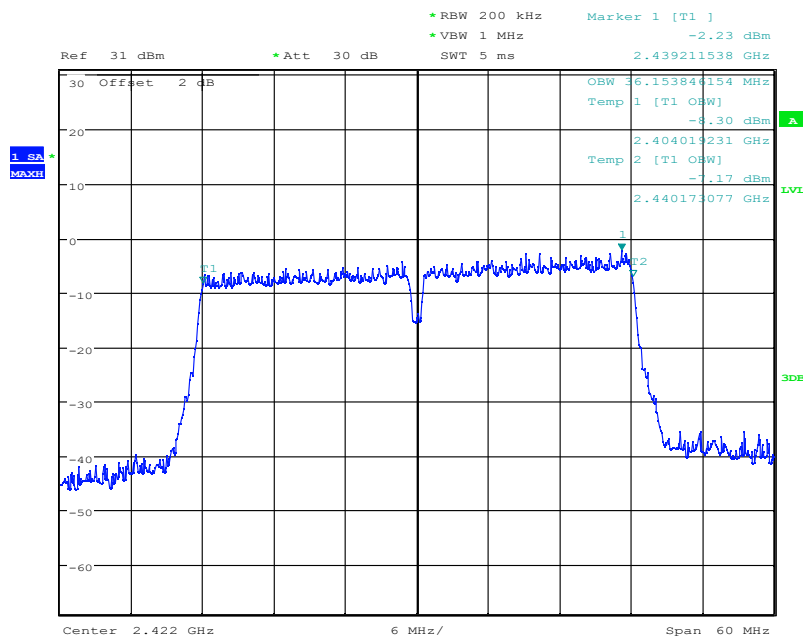
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:01:02

Fig.111 99% Occupied Bandwidth: Ch1,11n



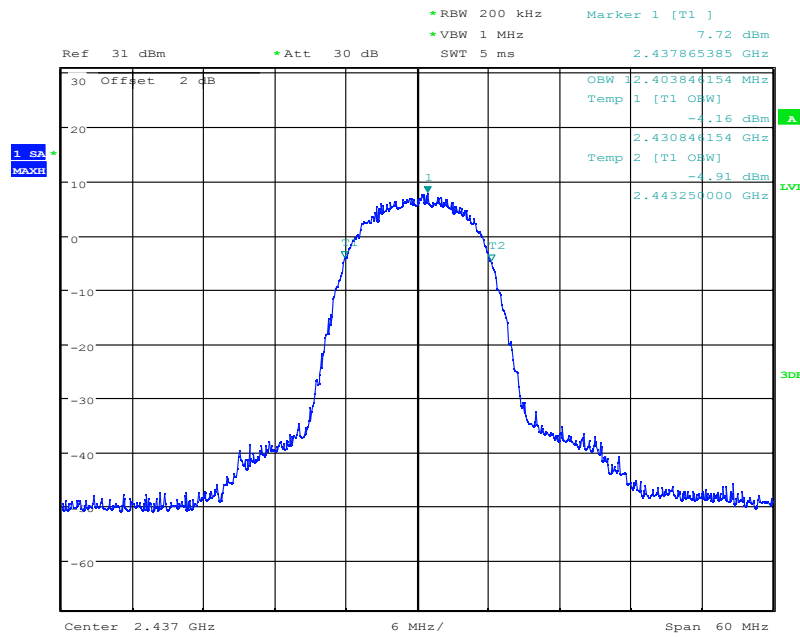
Date: 27.MAR.2021 03:02:48

Fig.112 99% Occupied Bandwidth: Ch3,11n(40M)

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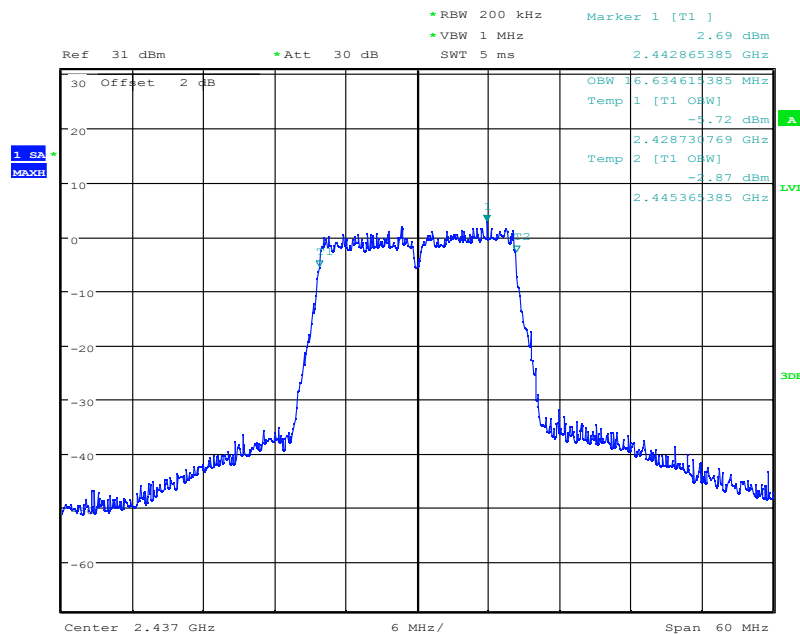
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:57:18

Fig.113 99% Occupied Bandwidth: Ch6,11b



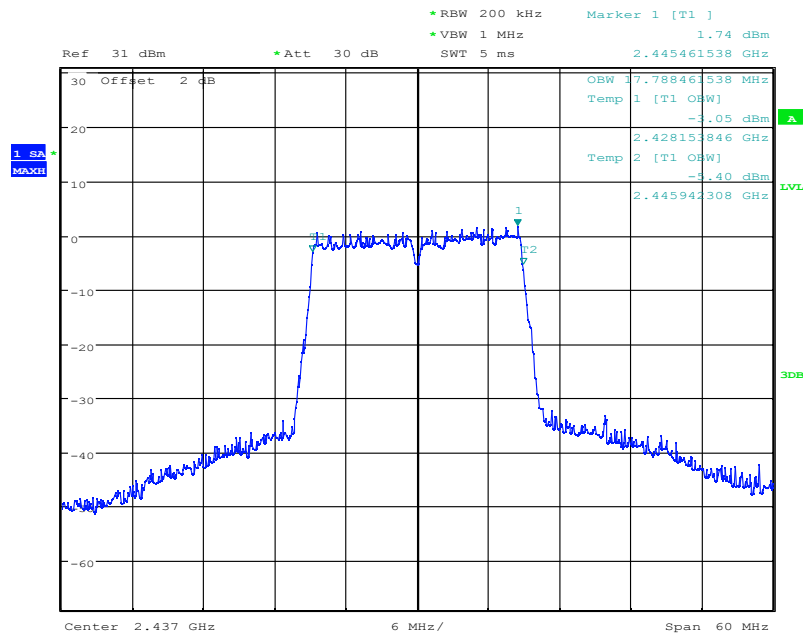
Date: 27.MAR.2021 02:58:42

Fig.114 99% Occupied Bandwidth: Ch6,11g

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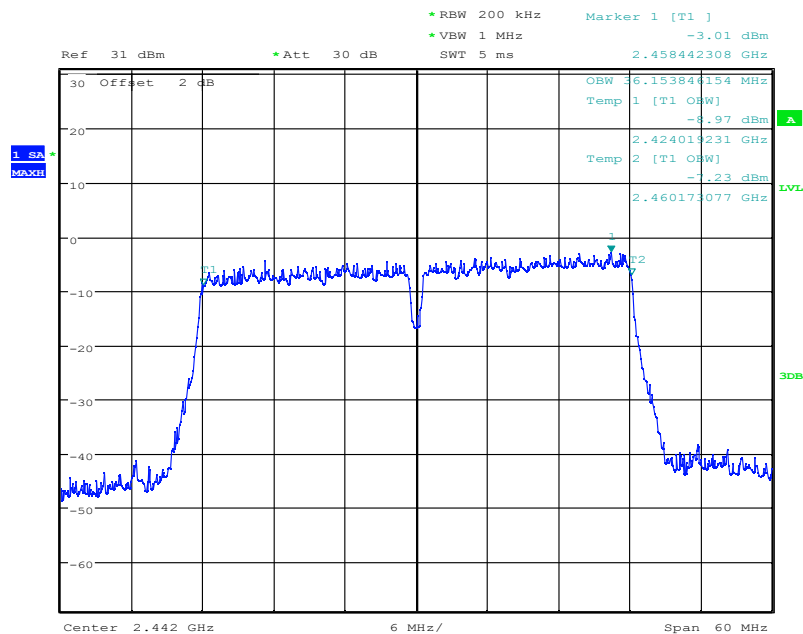
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:01:44

Fig.115 99% Occupied Bandwidth: Ch6,11n



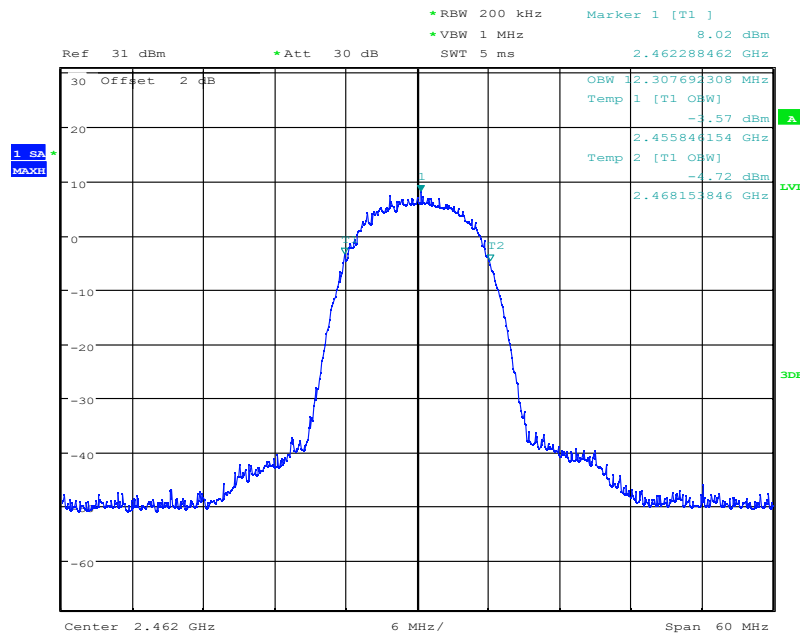
Date: 27.MAR.2021 03:03:22

Fig.116 99% Occupied Bandwidth: Ch7,11n(40M)

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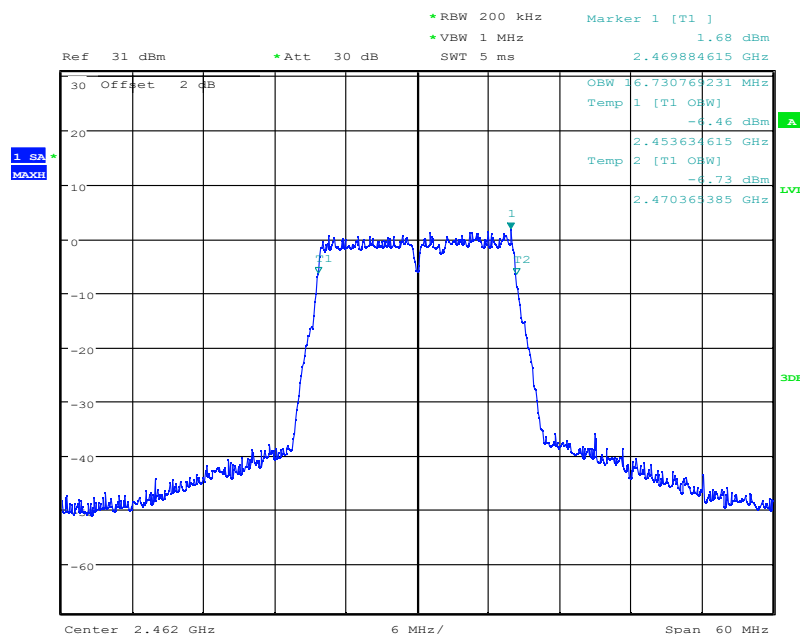
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 02:57:47

Fig.117 99% Occupied Bandwidth: Ch11,11b



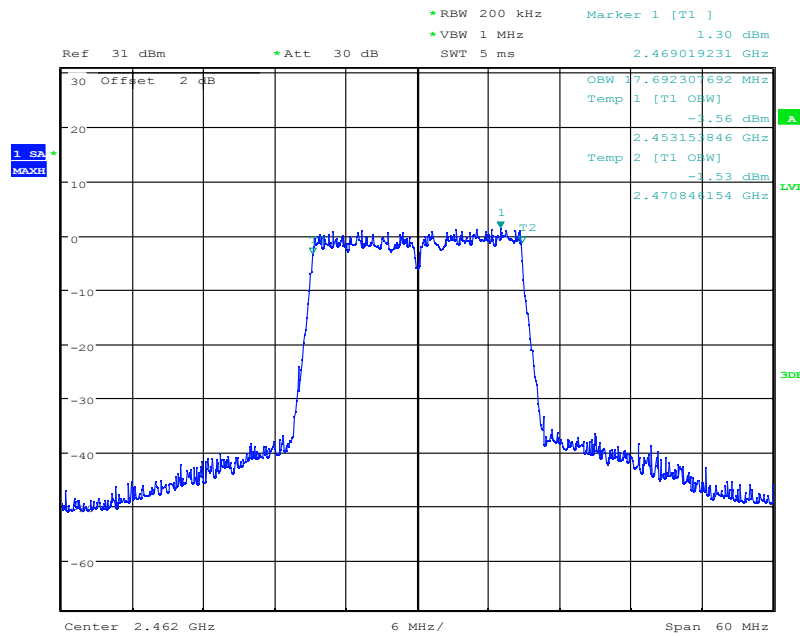
Date: 27.MAR.2021 02:58:16

Fig.118 99% Occupied Bandwidth: Ch11,11g

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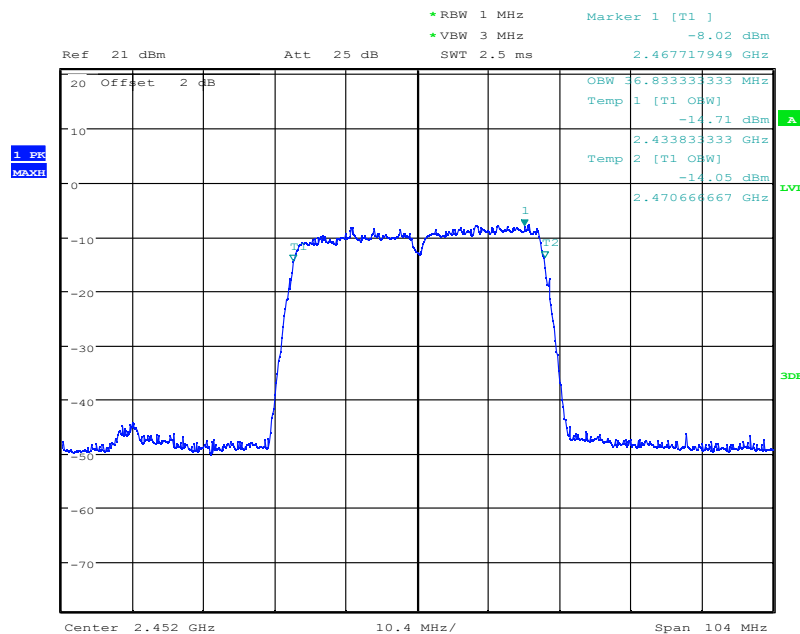
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 27.MAR.2021 03:02:12

Fig.119 99% Occupied Bandwidth: Ch11,11n



Date: 19.APR.2021 00:24:04

Fig.120 99% Occupied Bandwidth: Ch9,11n(40M)

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Report No.:I21W00006-WLAN_Rev2

5.5Band Edges Compliance

Specifications:	FCC 47 CFR Part 15.247(d)
DUT Serial Number:	866884045632239
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit Level Construction:

Standard	Limited(dBuV/m)	
FCC 47 CFR Part 15.247(d)	Peak	74
	Average	54

Measurement Uncertainty:

Frequency Range	Uncertainty
1 GHz to 6 GHz	4.68

Test Procedure

The measurement is according to ANSI C63.10 clause11.13.

1. Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
2. Reference level offset: Corrected for gains and losses of test antenna factor, preamp gain and cable loss, so as to indicate field strength, in units of dBμV/m at 3 m, directly on the instrument display. Alternatively, the reference level offset may be set to zero and calculations shall be provided showing the conversion of raw measured data to the field strength in dBμV/m at 3 m.
3. Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2..
4. Attenuation: Auto (at least 10 dB preferred).
5. Sweep time: Coupled.
6. Resolution bandwidth: Above 1 GHz: 1 MHz
7. Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function: 3×RBW
8. Detector (unless specified otherwise): Peak and average above 1 GHz
9. Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

Note: --

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Report No.:I21W00006-WLAN_Rev2

Test Result:

802.11b/g mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11b	1	Fig.121	Pass
	11	Fig.122	Pass
802.11g	1	Fig.123	Pass
	11	Fig.124	Pass

802.11n mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20MHz)	1	Fig.125	Pass
	11	Fig.126	Pass
802.11n (40MHz)	3	Fig.127	Pass
	9	Fig.128	Pass

Conclusion: PASS

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Report No.:I21W00006-WLAN_Rev2

Test figure as below:

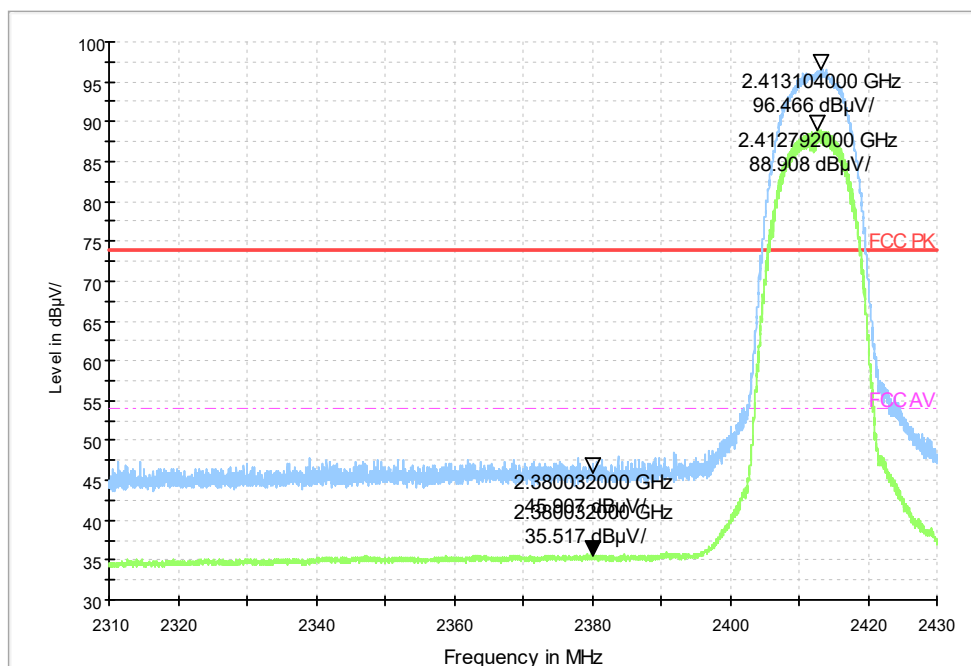


Fig.121 Frequency Band Edge: Ch1,11b

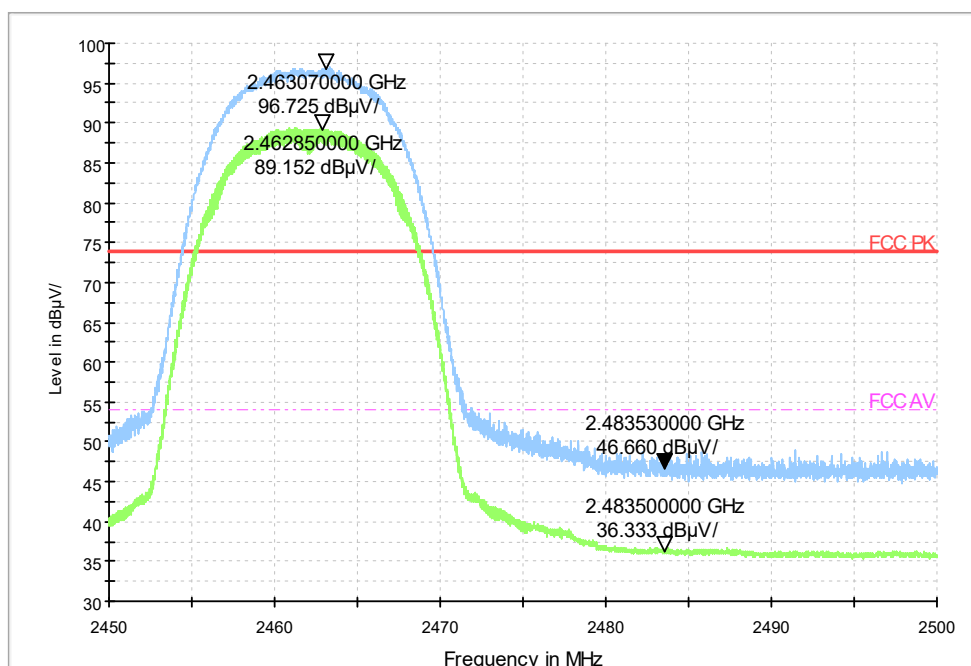


Fig.122 Frequency Band Edge: Ch11,11b

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Report No.:I21W00006-WLAN_Rev2

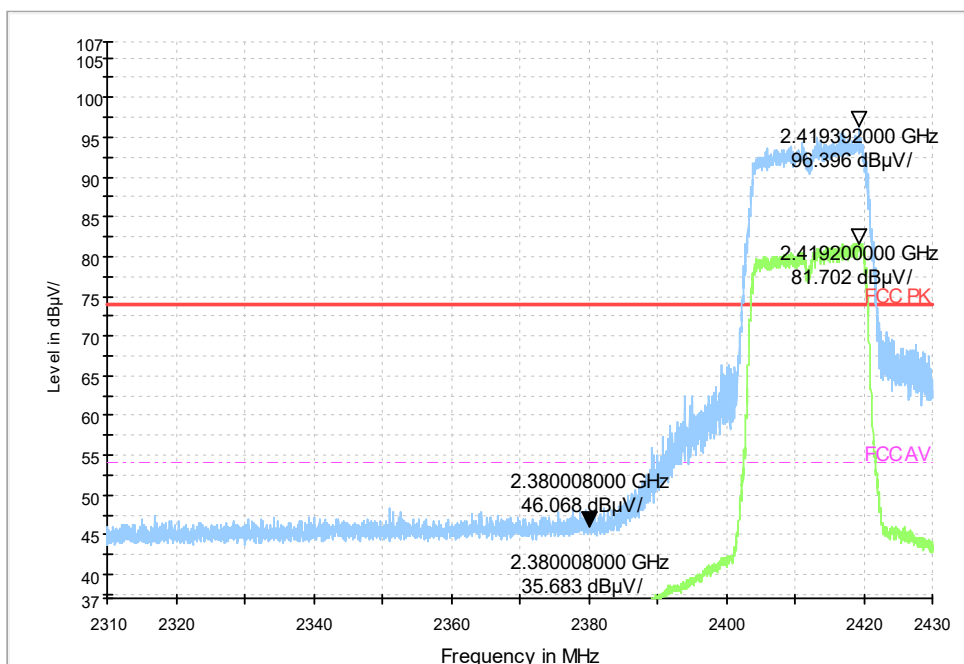


Fig.123 Frequency Band Edge: Ch1,11g

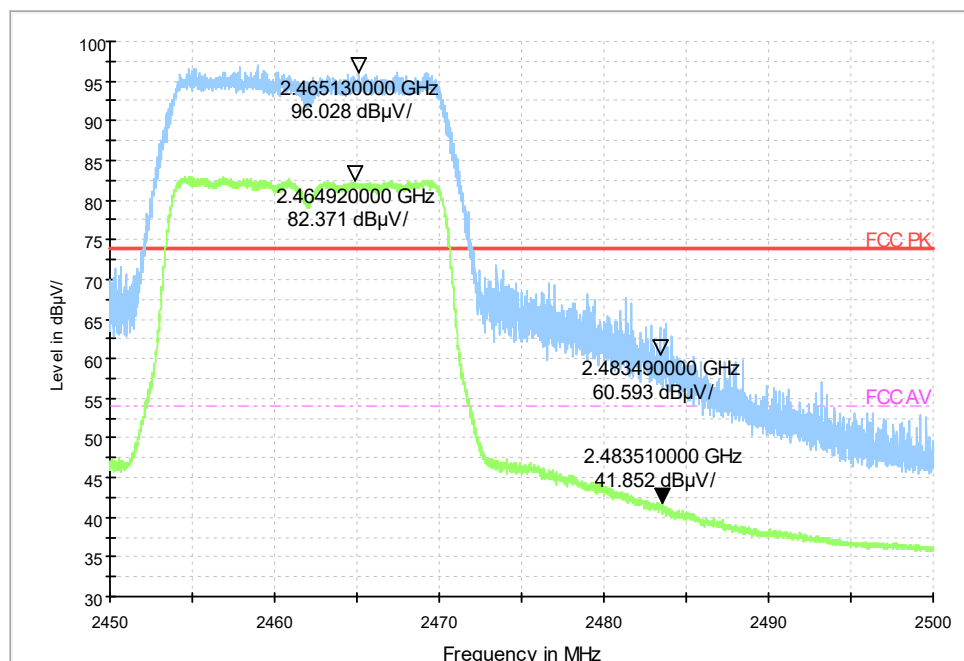


Fig.124 Frequency Band Edge: Ch11,11g

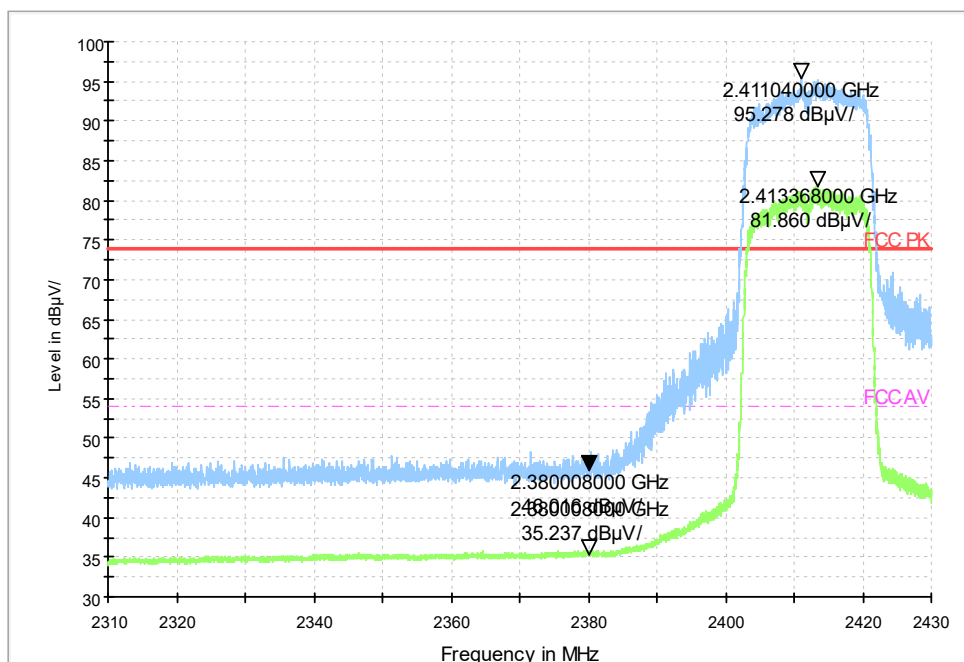


Fig.125 Frequency Band Edge: Ch1,11n(20M)

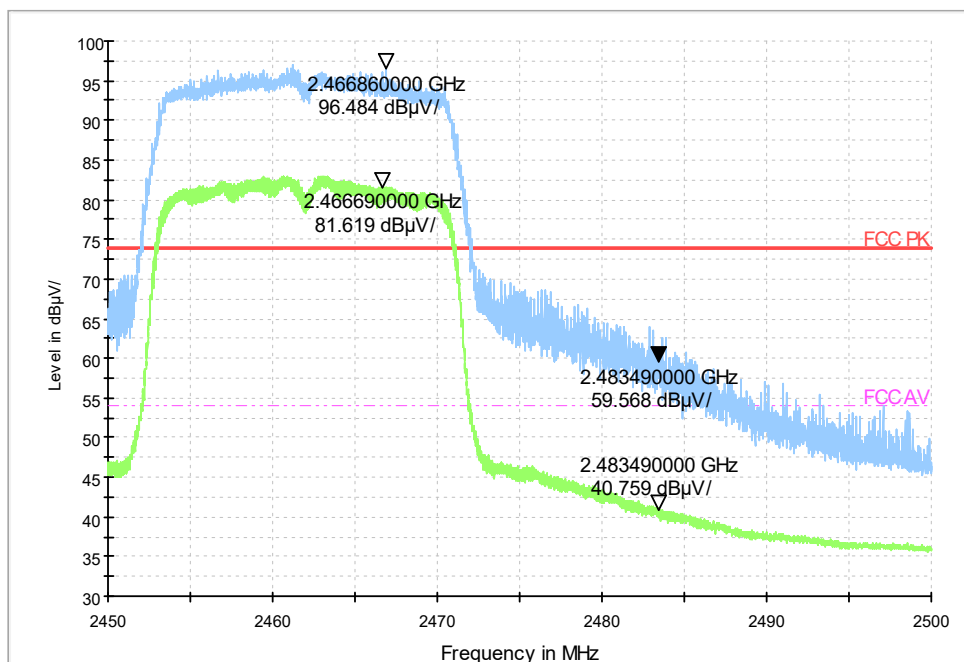


Fig.126 Frequency Band Edge: Ch1,11n(20M)

Report No.:I21W00006-WLAN_Rev2

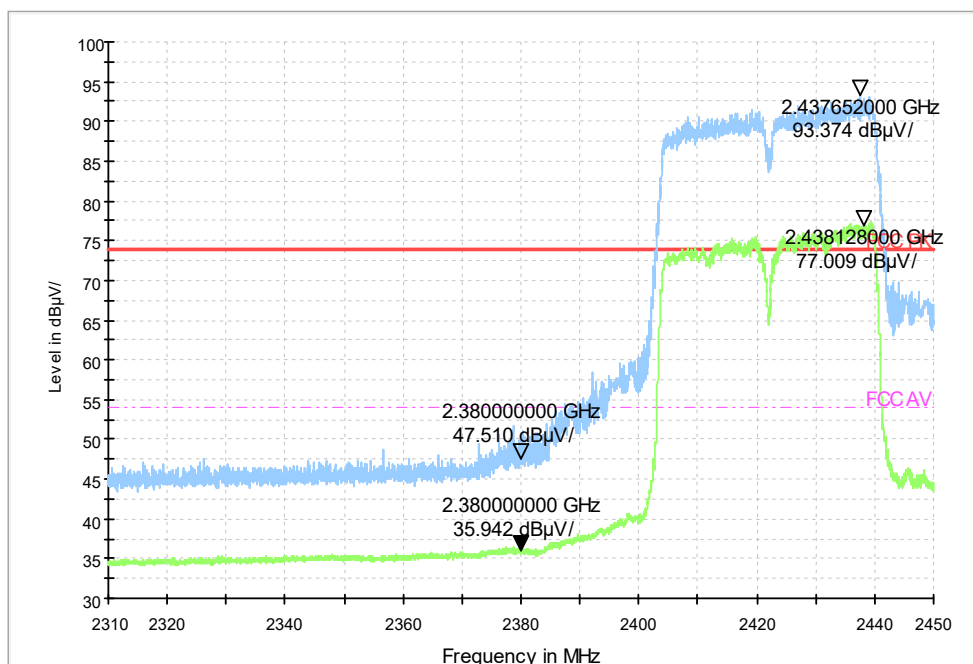


Fig.127 Frequency Band Edge: Ch3,11n(40M)

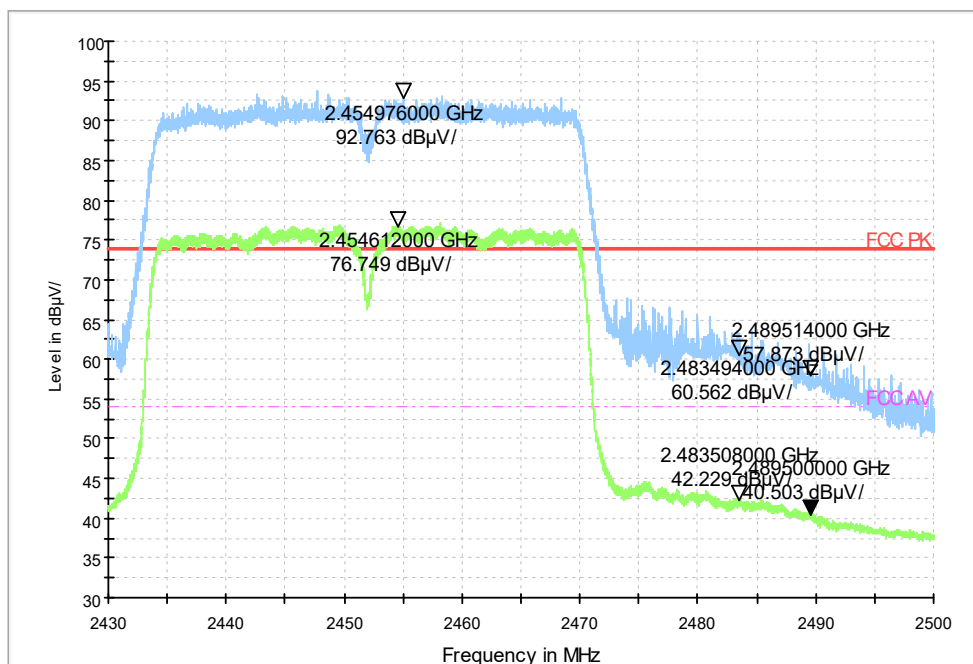


Fig.128 Frequency Band Edge: Ch9,11n(40M)

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Report No.:I21W00006-WLAN_Rev2

5.6 Transmitter Spurious Emission-Conducted

Specifications:	FCC 47 CFR Part15.247 (d)
DUT Serial Number:	866884045632486
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit

Standard	Limit
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 26\text{GHz}$	± 2.7

Test Procedure

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.

Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ≥ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

12. Set the center frequency and span to encompass frequency range to be measured.
13. Set the RBW = 100 kHz.
14. Set the VBW $\geq [3 \times \text{RBW}]$.
15. Detector = peak.
16. Sweep time = auto couple.
17. Trace mode = max hold.
18. Allow trace to fully stabilize.
19. Use the peak marker function to determine the maximum amplitude level.

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Report No.:I21W00006-WLAN_Rev2

Test Result:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412GHz	Fig.129	Pass
		30MHz~26GHz	Fig.130	Pass
	6	2.437GHz	Fig.131	Pass
		30MHz~26GHz	Fig.132	Pass
	11	2.462GHz	Fig.133	Pass
		30MHz~26GHz	Fig.134	Pass
802.11g	1	2.412GHz	Fig.135	Pass
		30MHz~26GHz	Fig.136	Pass
	6	2.437GHz	Fig.137	Pass
		30MHz~26GHz	Fig.138	Pass
	11	2.462GHz	Fig.139	Pass
		30MHz~26GHz	Fig.140	Pass

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412GHz	Fig.141	Pass
		30MHz~26GHz	Fig.142	Pass
	6	2.437GHz	Fig.143	Pass
		30MHz~26GHz	Fig.144	Pass
	11	2.462GHz	Fig.145	Pass
		30MHz~26GHz	Fig.146	Pass
802.11n (40MHz)	3	2.422GHz	Fig.147	Pass
		30MHz~26GHz	Fig.148	Pass
	7	2.442GHz	Fig.149	Pass
		30MHz~26GHz	Fig.150	Pass
	9	2.462GHz	Fig.151	Pass
		30MHz~26GHz	Fig.152	Pass

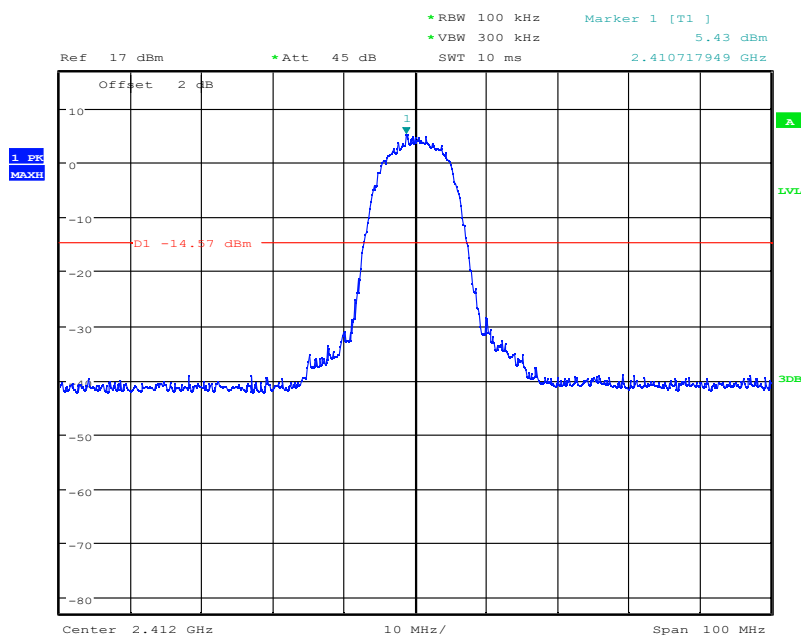
Conclusion: PASS

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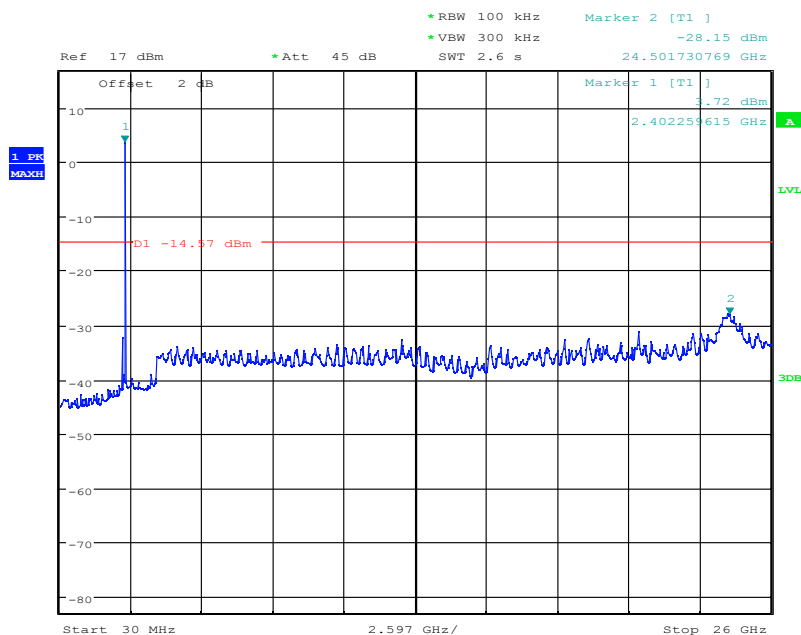
Report No.:I21W00006-WLAN_Rev2

Test figure as below:



Date: 26.MAR.2021 23:07:33

Fig.129 Conducted spurious emission: Ch1,11b,2412MHz



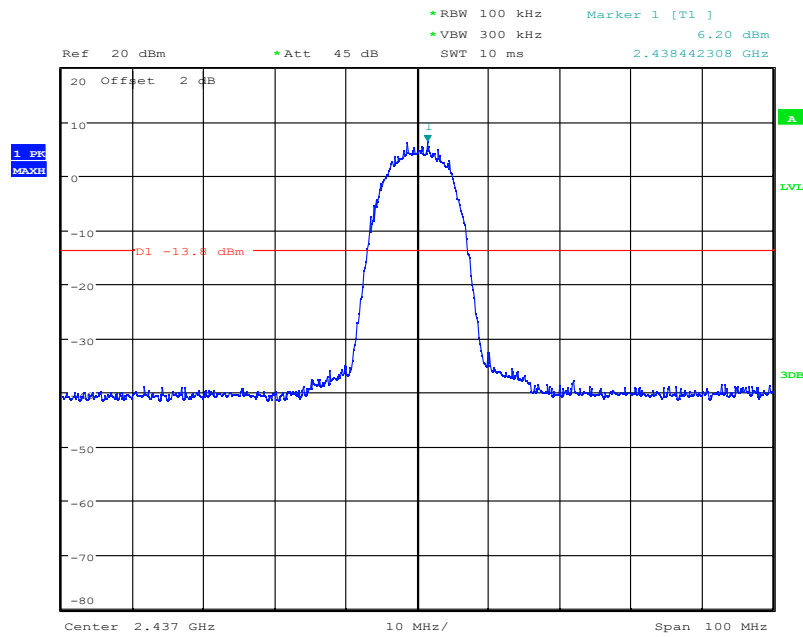
Date: 26.MAR.2021 23:07:58

Fig.130 Conducted spurious emission: Ch1,11b,30MHz~26GHz

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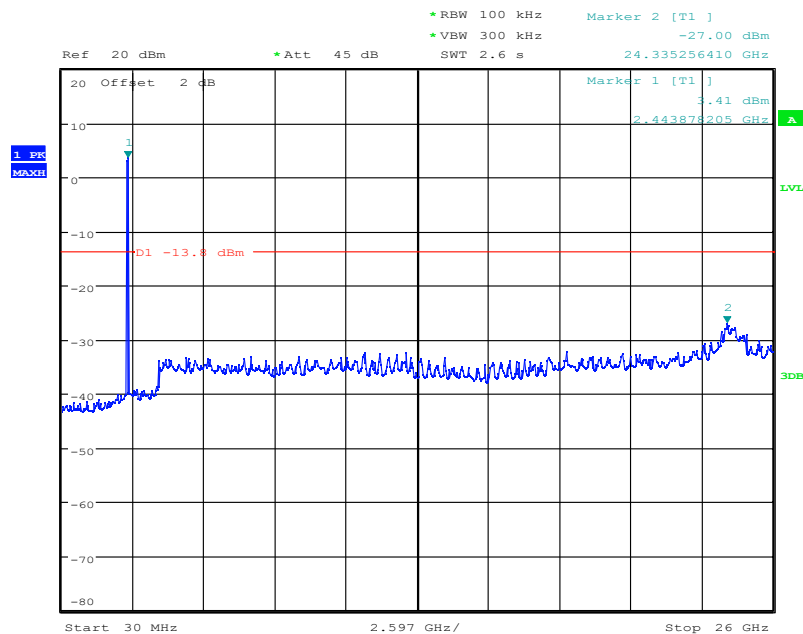
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:09:13

Fig.131 Conducted spurious emission: Ch6,11b,2437MHz



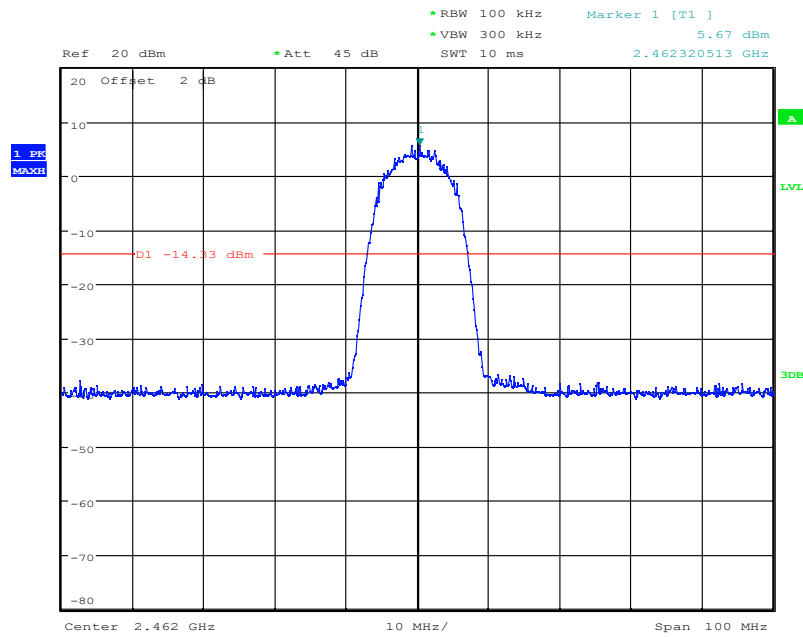
Date: 26.MAR.2021 23:09:44

Fig.132 Conducted spurious emission: Ch6,11b,30MHz~26GHz

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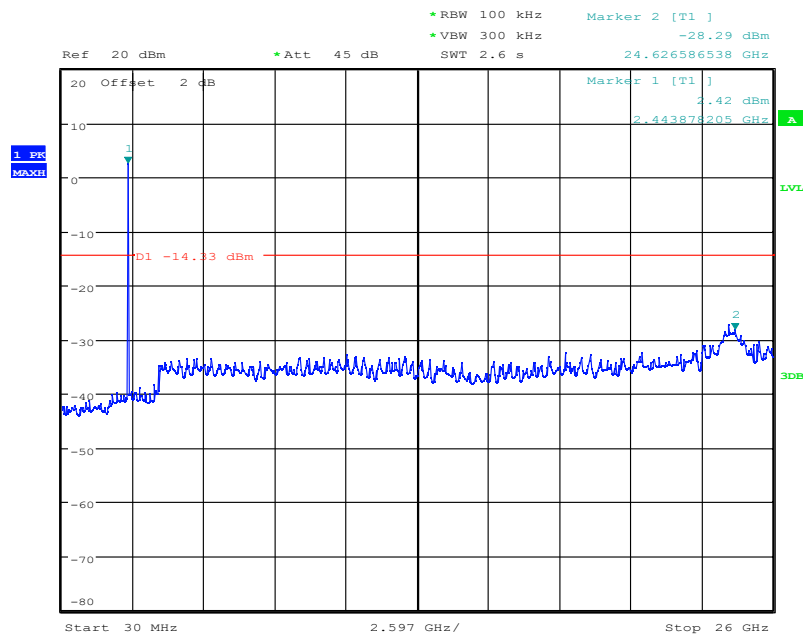
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:10:46

Fig.133 Conducted spurious emission: Ch11,11b,2462MHz



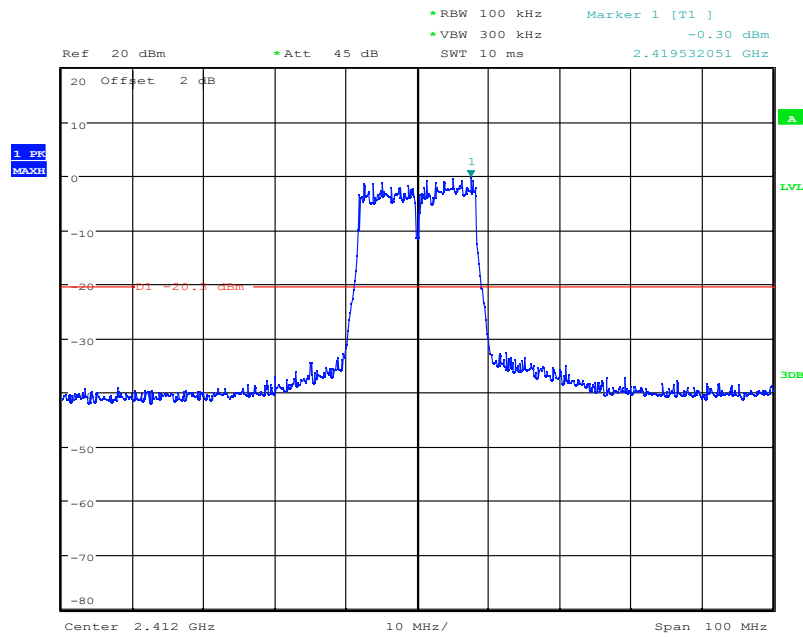
Date: 26.MAR.2021 23:11:04

Fig.134 Conducted spurious emission: Ch11,11b,30MHz~26GHz

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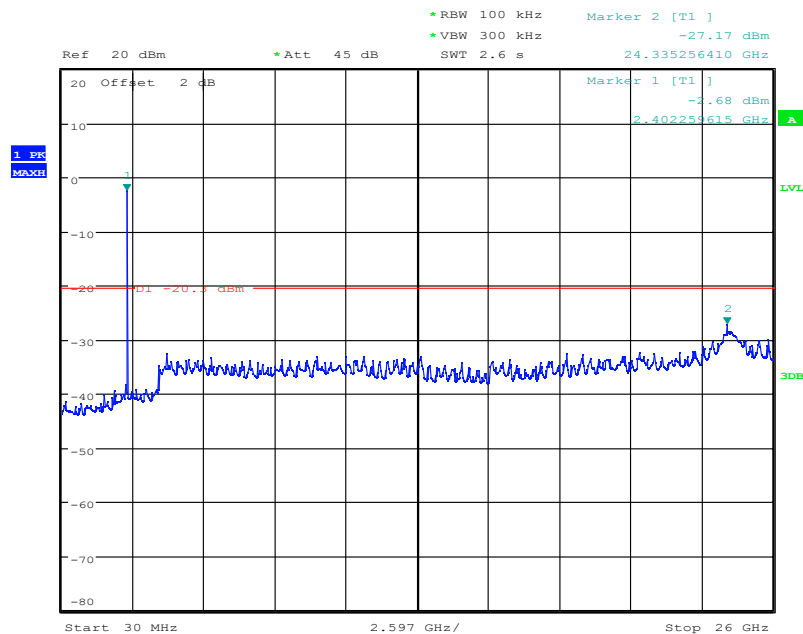
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:15:54

Fig.135 Conducted spurious emission: Ch1,11g,2412MHz



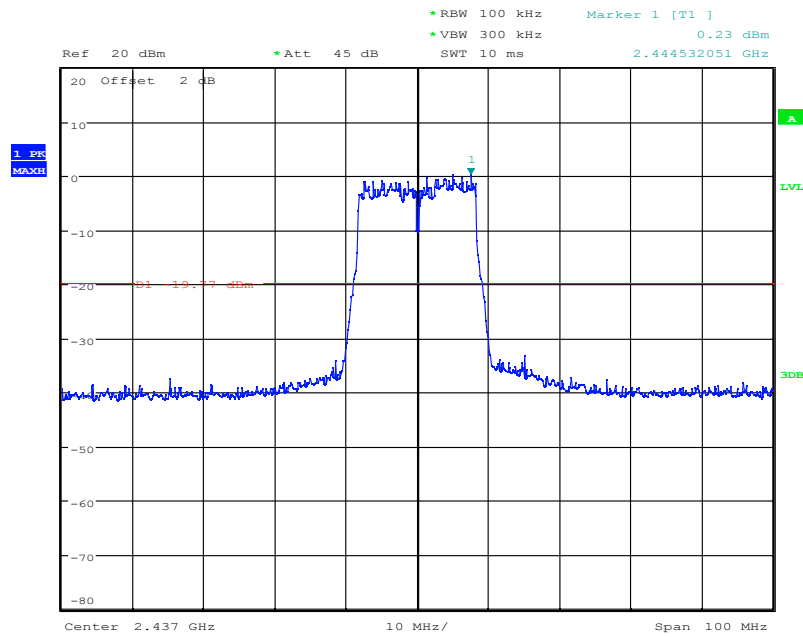
Date: 26.MAR.2021 23:16:13

Fig.136 Conducted spurious emission: Ch1,11g,30MHz~26GHz

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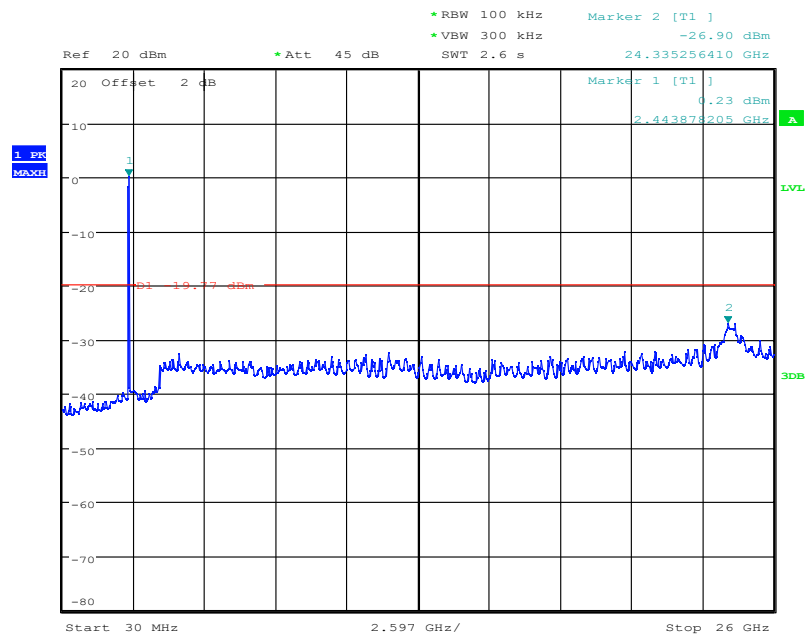
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:14:46

Fig.137 Conducted spurious emission: Ch6,11g,2437MHz



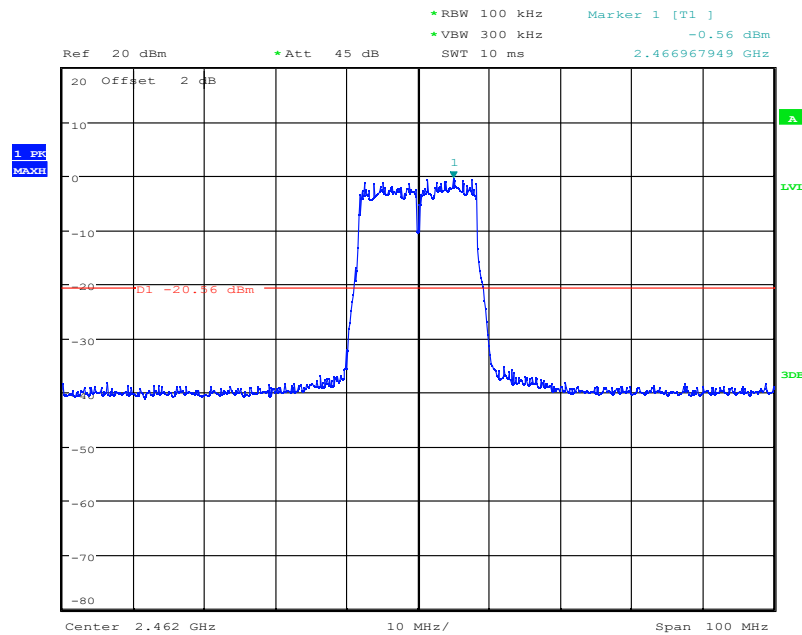
Date: 26.MAR.2021 23:15:11

Fig.138 Conducted spurious emission: Ch6,11g,30MHz~26GHz

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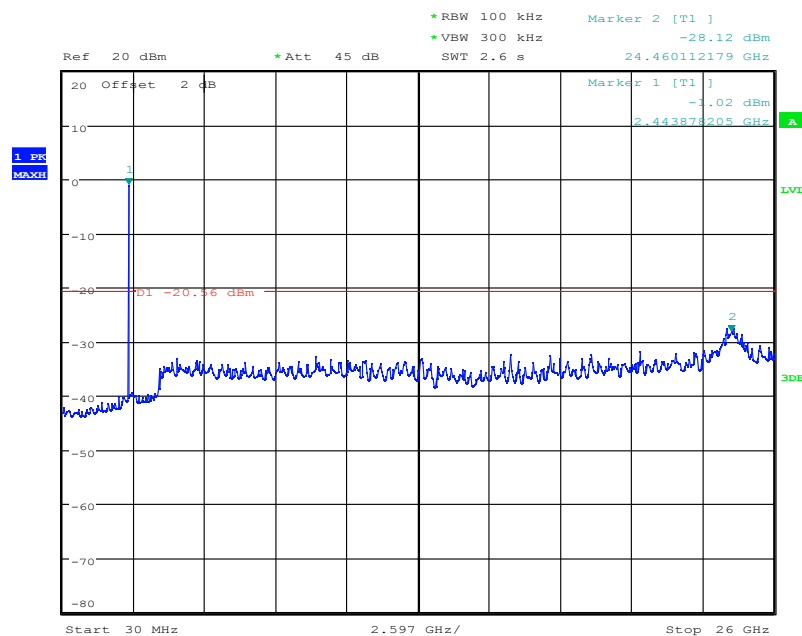
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:13:21

Fig.139 Conducted spurious emission: Ch11,11g,2462MHz



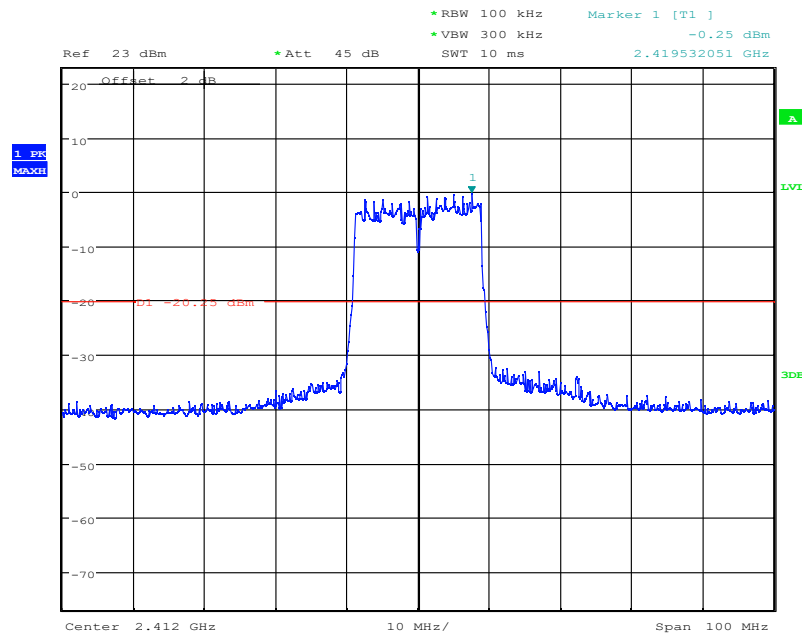
Date: 26.MAR.2021 23:13:44

Fig.140 Conducted spurious emission: Ch11,11g,30MHz~26GHz

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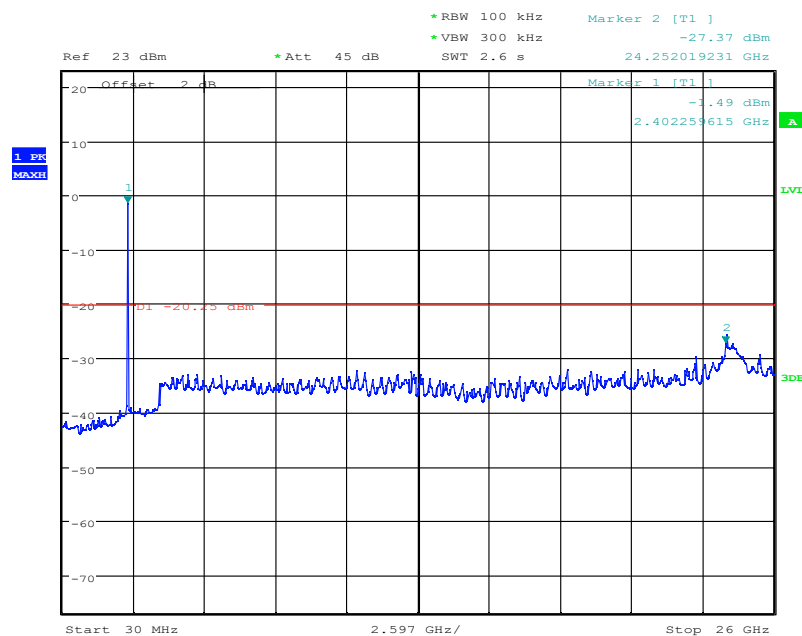
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:17:42

Fig.141 Conducted spurious emission: Ch1,11n,2412MHz



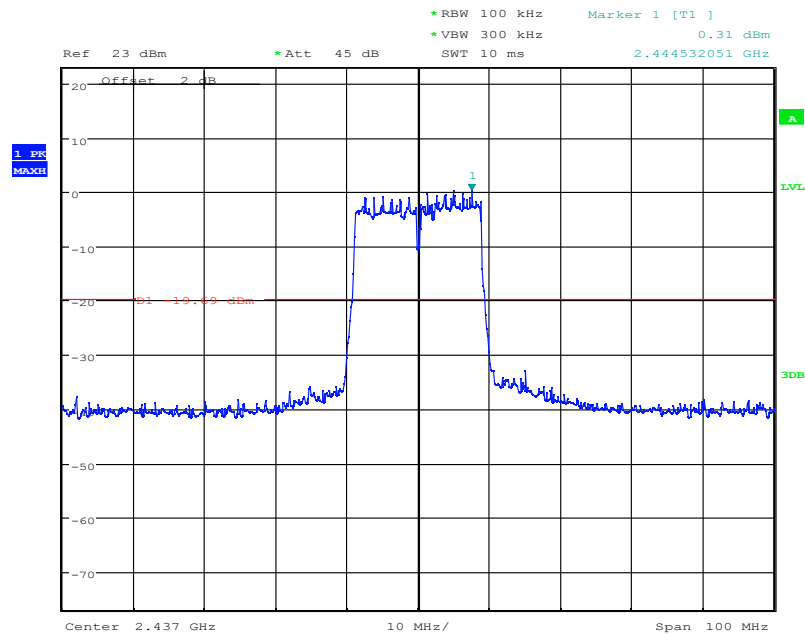
Date: 26.MAR.2021 23:18:09

Fig.142 Conducted spurious emission: Ch1,11n,30MHz~26GHz

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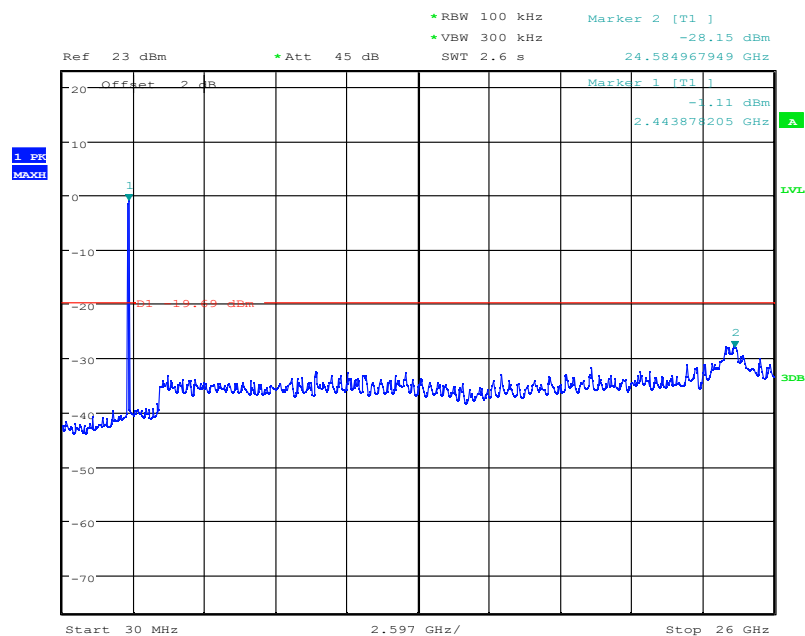
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:20:01

Fig.143 Conducted spurious emission: Ch6,11n,2437MHz



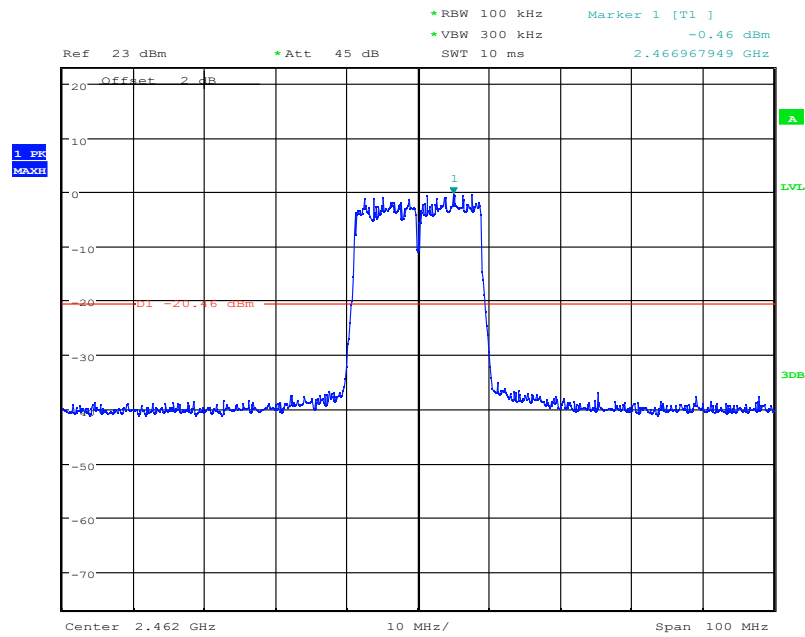
Date: 26.MAR.2021 23:20:19

Fig.144 Conducted spurious emission: Ch6,11n,30MHz~26GHz

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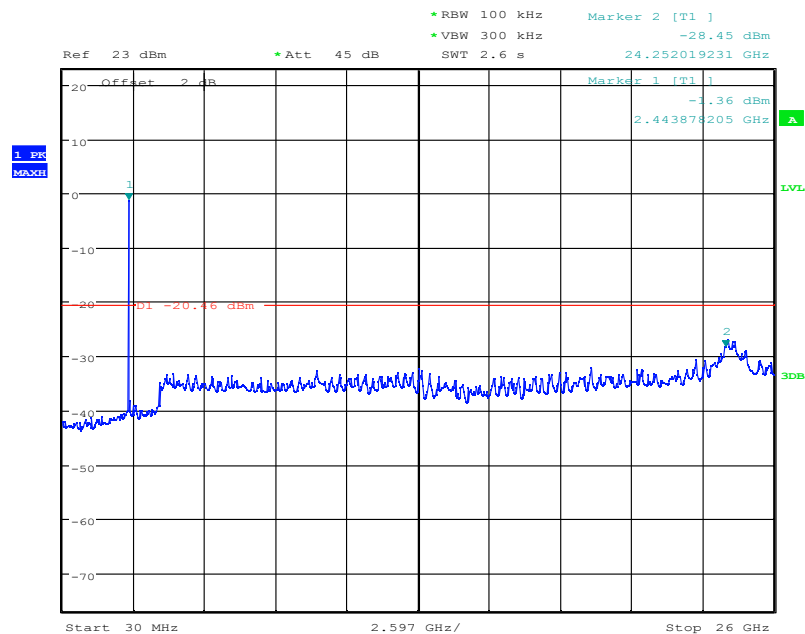
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:21:32

Fig.145 Conducted spurious emission: Ch11,11n,2462MHz



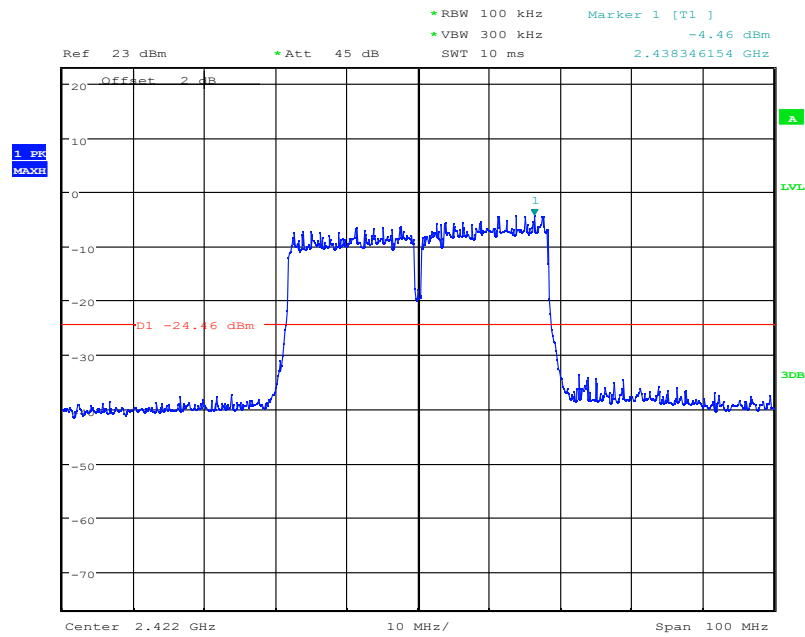
Date: 26.MAR.2021 23:21:52

Fig.146 Conducted spurious emission: Ch11,11n,30MHz~26GHz

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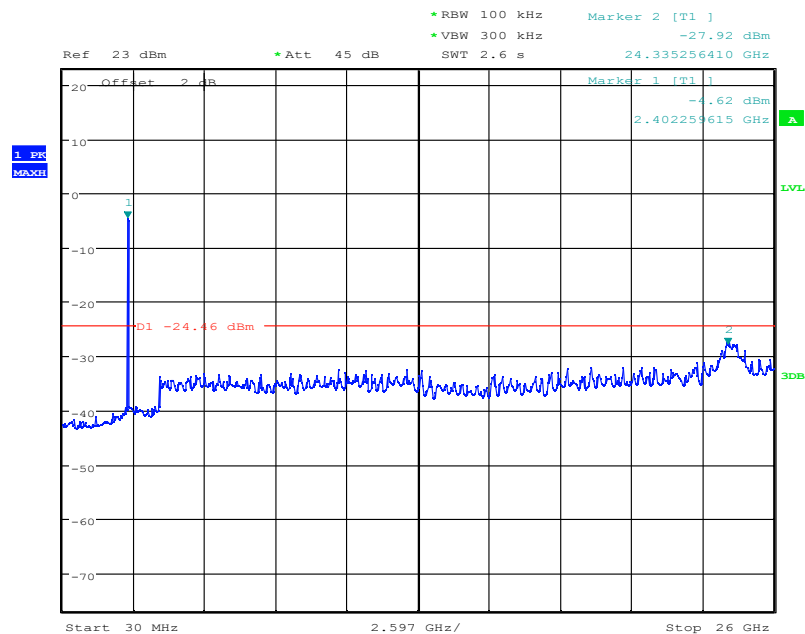
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:23:18

Fig.147 Conducted spurious emission: Ch3,1n(40M),2422MHz



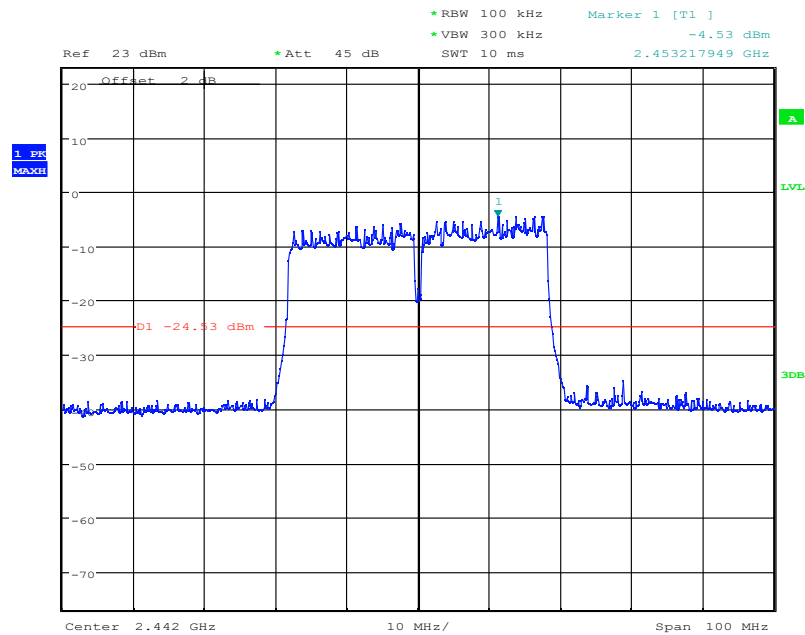
Date: 26.MAR.2021 23:23:42

Fig.148 Conducted spurious emission: Ch3,1n(40M),30MHz~26GHz

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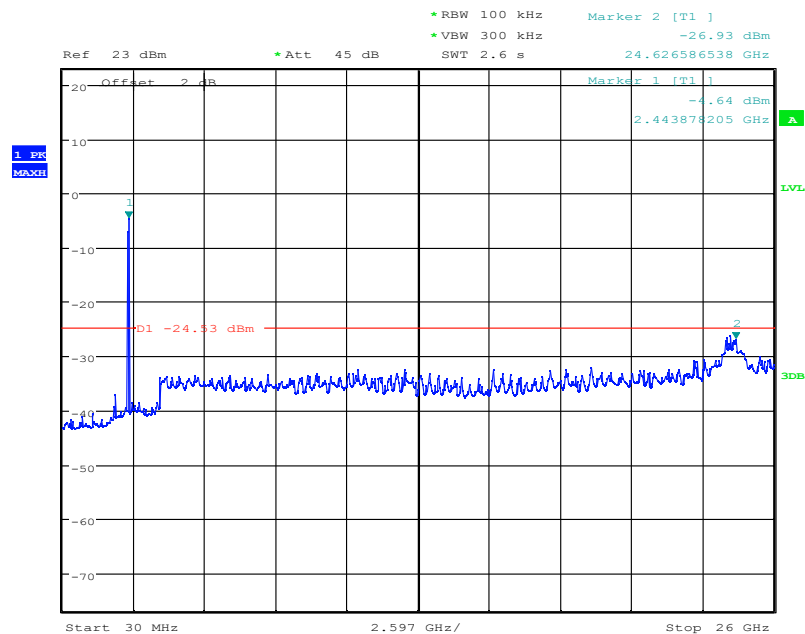
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Report No.:I21W00006-WLAN_Rev2



Date: 26.MAR.2021 23:24:53

Fig.149 Conducted spurious emission: Ch7,1n(40M),2442MHz



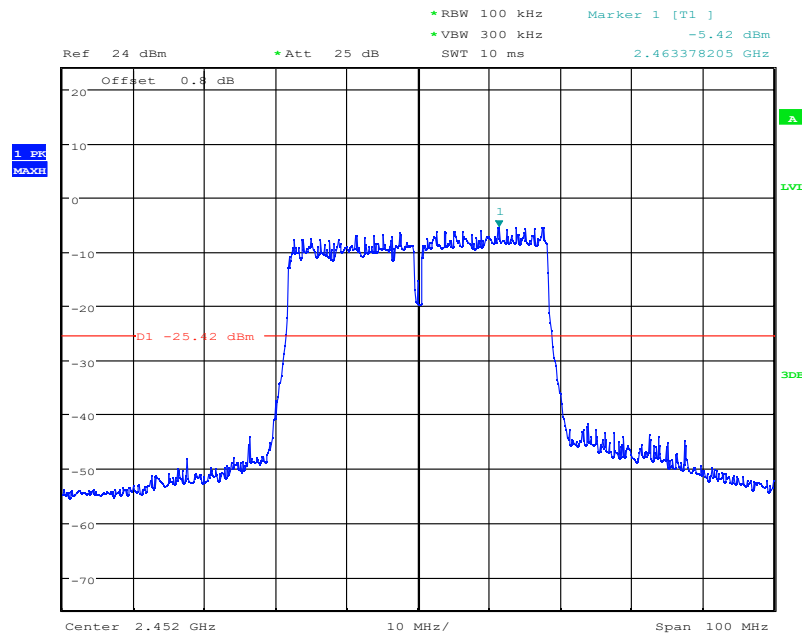
Date: 26.MAR.2021 23:25:19

Fig.150 Conducted spurious emission: Ch7,1n(40M),30MHz~26GHz

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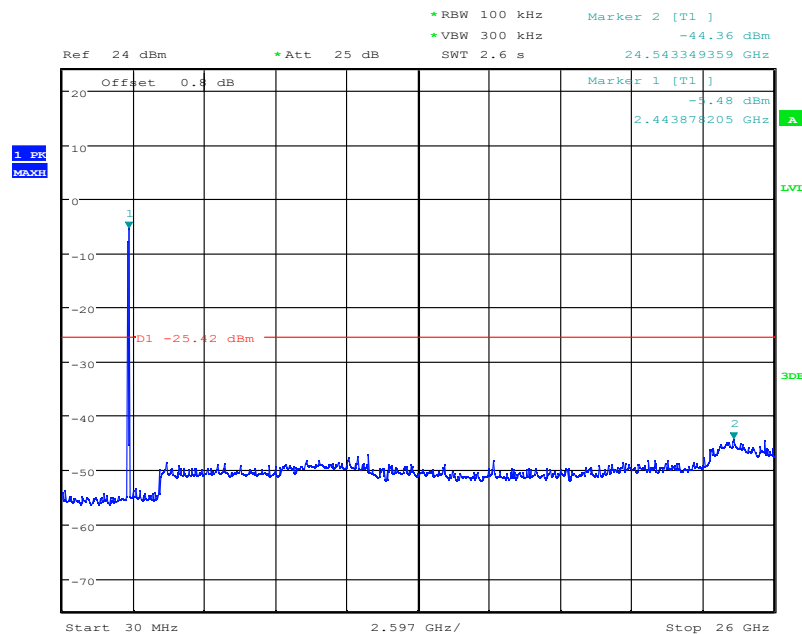
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Report No.:I21W00006-WLAN_Rev2



Date: 18.APR.2021 02:19:02

Fig.151 Conducted spurious emission: Ch9,11n(40M),2462MHz



Date: 18.APR.2021 02:19:32

Fig.152 Conducted spurious emission: Ch9,11n(40M),30MHz~26GHz

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Report No.:I21W00006-WLAN_Rev2

5.7 Transmitter Spurious Emission-Radiated

Specifications:	FCC 47 CFR Part 15.247, 15.205, 15.209
DUT Serial Number:	866884045632239
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	± 1.13
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	± 1.16
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	± 2.45
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	± 2.99

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs.

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Report No.:I21W00006-WLAN_Rev2

For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/1MHz	15
4000~18000	1MHz/1MHz	40
18000~26500	1MHz/1MHz	20

Test Result:

A “reference path loss” is established and AR_{pi} is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

AR_{pi}= Cable loss + Antenna Gain-Preamplifier gain

Result=PM_{ea} + AR_{pi}

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	30MH-1GHz	Fig.153	Pass
		1GHz-3GHz	Fig.154	
		3GHz-18GHz	Fig.155	
	6	30MH-1GHz	Fig.156	Pass
		1GHz-3GHz	Fig.157	
		3GHz-18GHz	Fig.158	
	11	30MH-1GHz	Fig.159	Pass
		1GHz-3GHz	Fig.160	
		3GHz-18GHz	Fig.161	

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Report No.:I21W00006-WLAN_Rev2

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	30MH-1GHz	Fig.162	Pass
		1GHz-3GHz	Fig.163	
		3GHz-18GHz	Fig.164	
	6	30MH-1GHz	Fig.165	Pass
		1GHz-3GHz	Fig.166	
		3GHz-18GHz	Fig.167	
	11	30MH-1GHz	Fig.168	Pass
		1GHz-3GHz	Fig.169	
		3GHz-18GHz	Fig.170	

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	30MH-1GHz	Fig.171	Pass
		1GHz-3GHz	Fig.172	
		3GHz-18GHz	Fig.173	
	6	30MH-1GHz	Fig.174	Pass
		1GHz-3GHz	Fig.175	
		3GHz-18GHz	Fig.176	
	11	30MH-1GHz	Fig.177	Pass
		1GHz-3GHz	Fig.178	
		3GHz-18GHz	Fig.179	
802.11n (40MHz)	3	30MH-1GHz	Fig.180	Pass
		1GHz-3GHz	Fig.181	
		3GHz-18GHz	Fig.182	
	7	30MH-1GHz	Fig.183	Pass
		1GHz-3GHz	Fig.184	
		3GHz-18GHz	Fig.185	
	9	30MH-1GHz	Fig.186	Pass
		1GHz-3GHz	Fig.187	
		3GHz-18GHz	Fig.188	
18G-26G	All channels	18GHz-26GHz	Fig.189	Pass

Note: all the test data shown was peak detected.

Conclusion: PASS

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Test graphs as below:

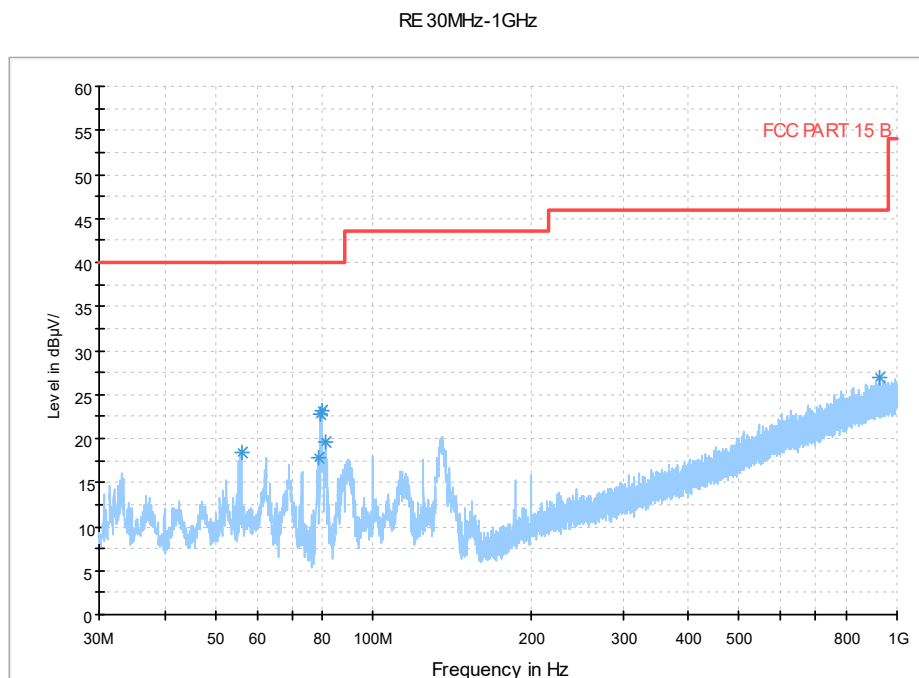


Fig.153 Radiated emission:11b, Ch1, 30MHz-1GHz

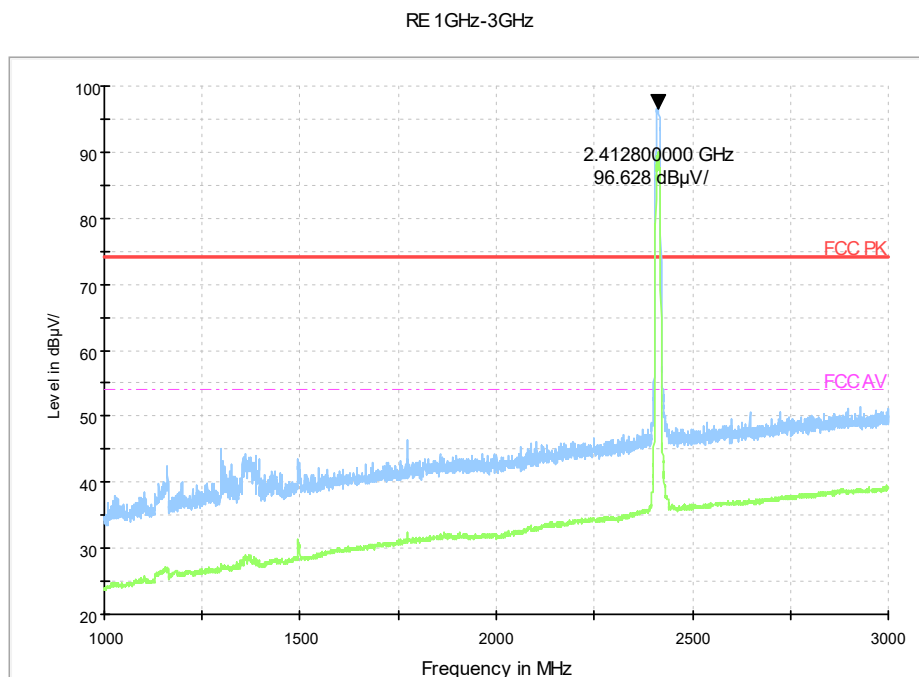


Fig.154 Radiated emission:11b, Ch1, 1GHz-3GHz

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RE 3GHz-18GHz

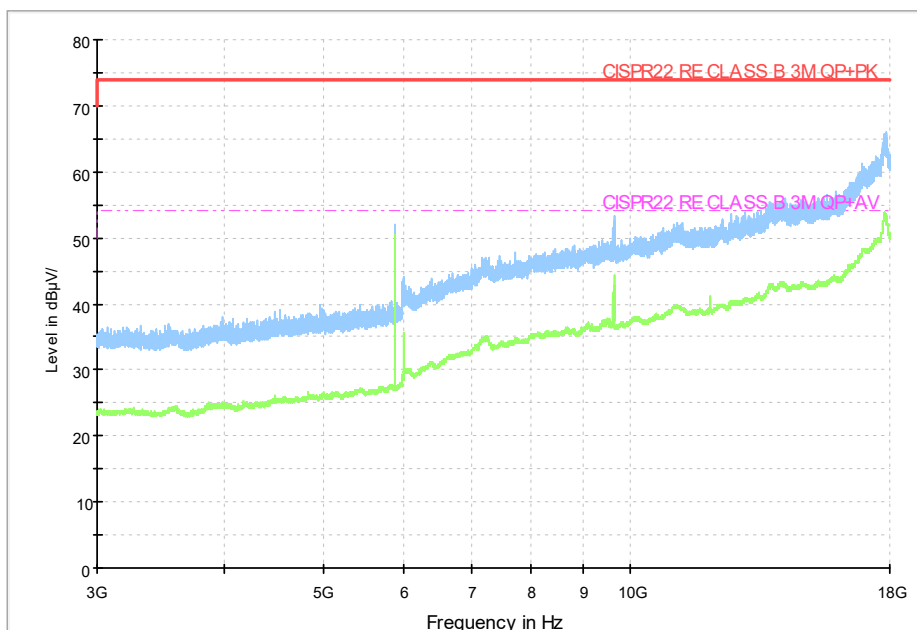


Fig.155 Radiated emission: 11b,Ch1, 3GHz-18GHz

RE 30MHz-1GHz

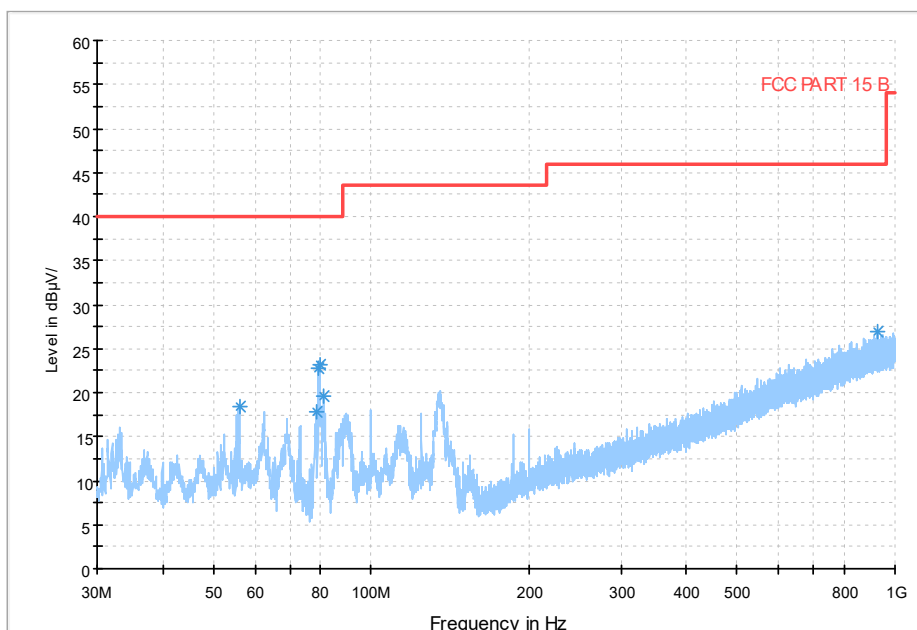


Fig.156 Radiated emission:11b,Ch6, 30MHz-1GHz

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RE 1GHz-3GHz

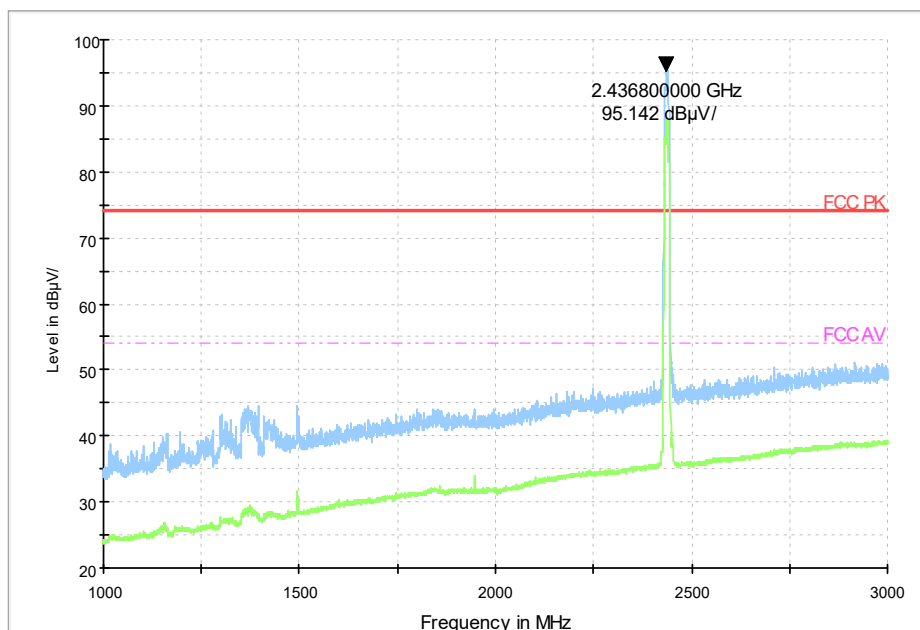


Fig.157 Radiated emission: 11b,Ch6, 1GHz-3GHz

RE 3GHz-18GHz

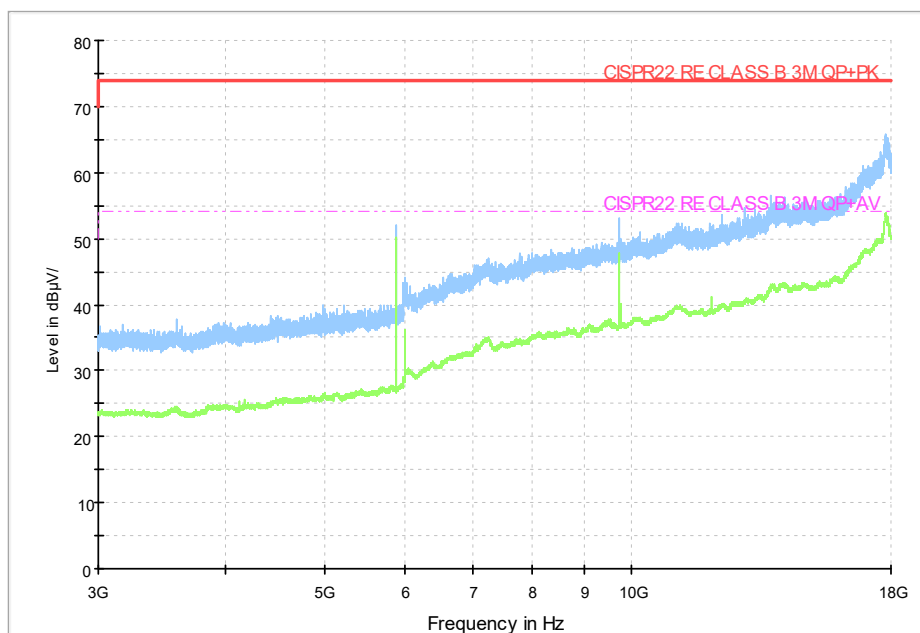


Fig.158 Radiated emission: 11b,Ch6, 3GHz-18GHz

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RE 30MHz-1GHz

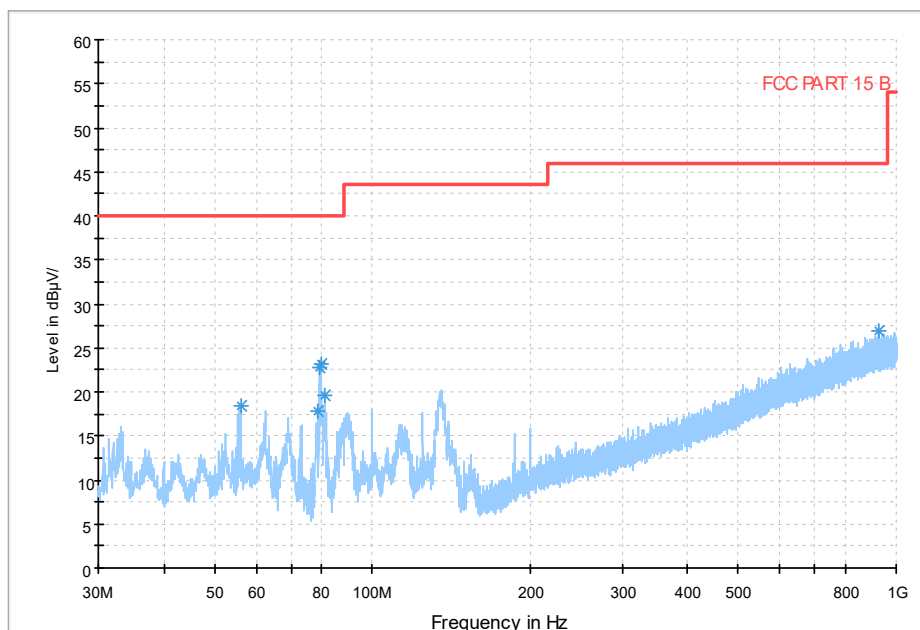


Fig.159 Radiated emission: 11b,Ch11, 30MHz-1GHz

RE 1GHz-3GHz

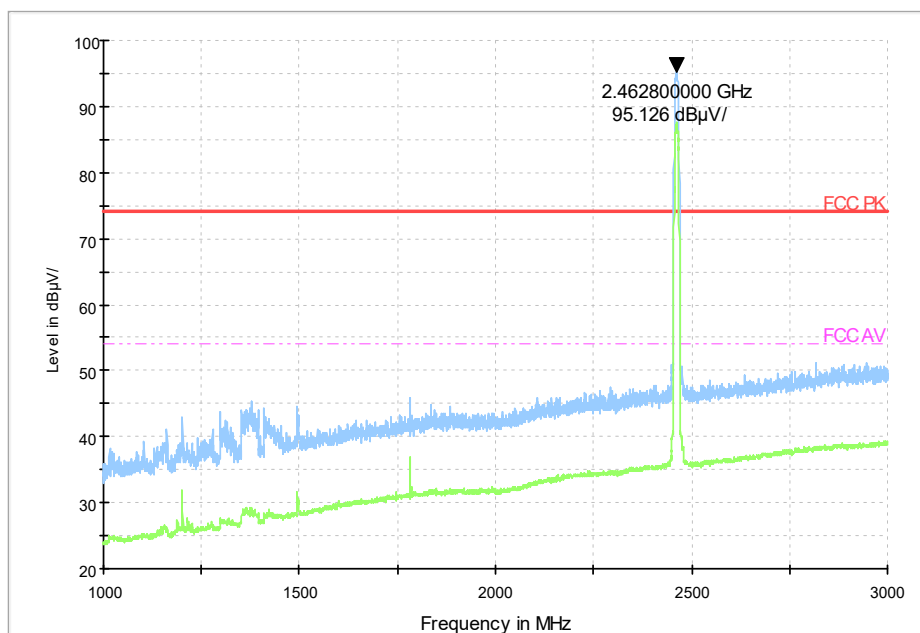


Fig.160 Radiated emission: 11b,Ch11, 1GHz-3GHz

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RE 3GHz-18GHz

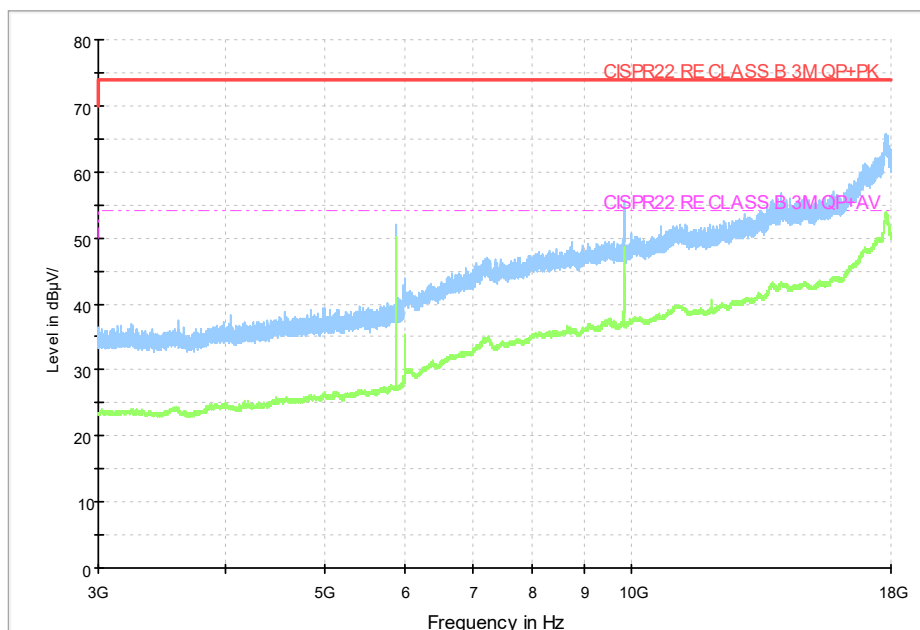


Fig.161 Radiated emission:11b, Ch11, 3GHz-18GHz

RE 30MHz-1GHz

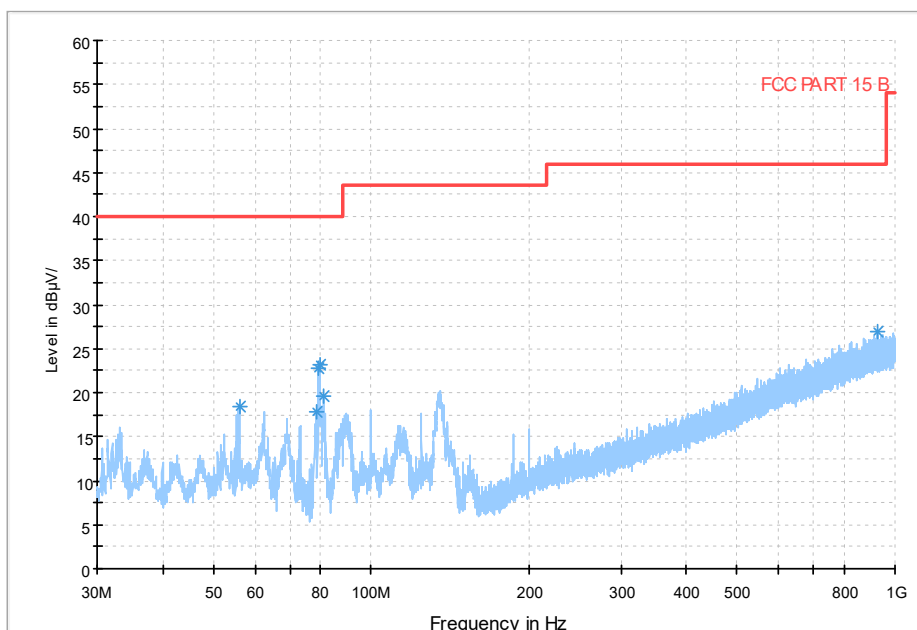


Fig.162 Radiated emission: 11g,Ch1, 30MHz-1GHz

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RE 1GHz-3GHz

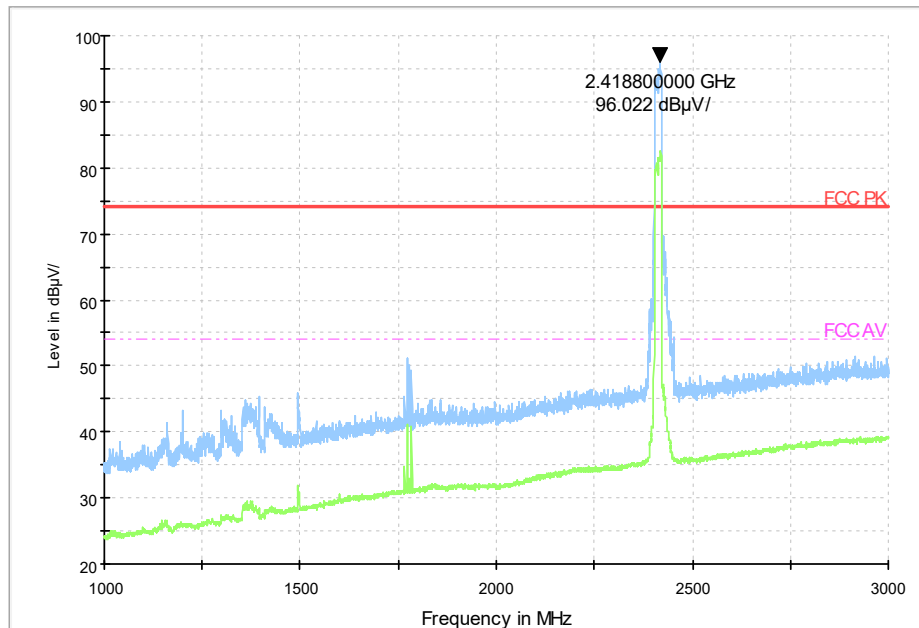


Fig.163 Radiated emission:11g, Ch1, 1GHz-3GHz

RE 3GHz-18GHz

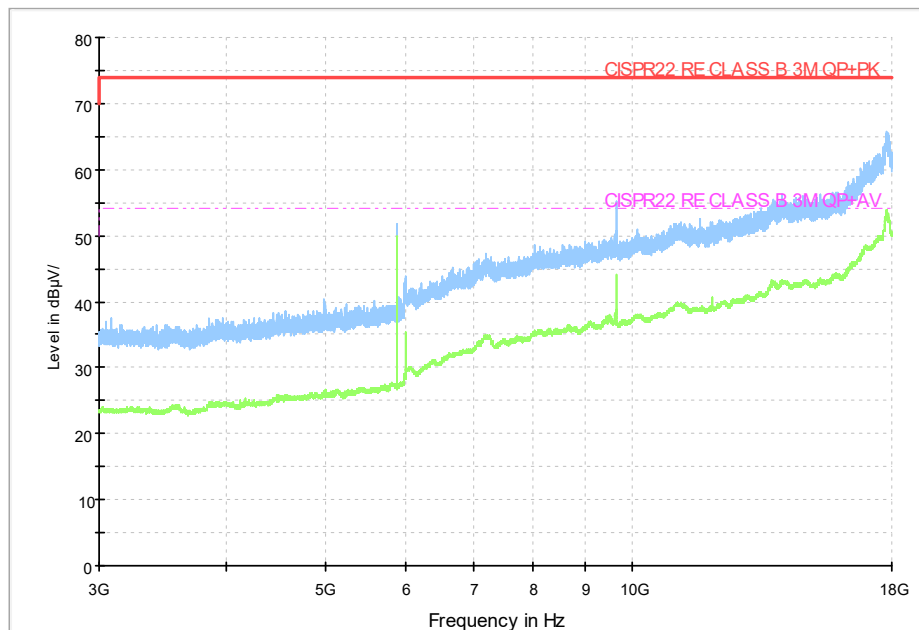


Fig.164 Radiated emission: 11g,Ch1, 3GHz-18GHz

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RE 30MHz-1GHz

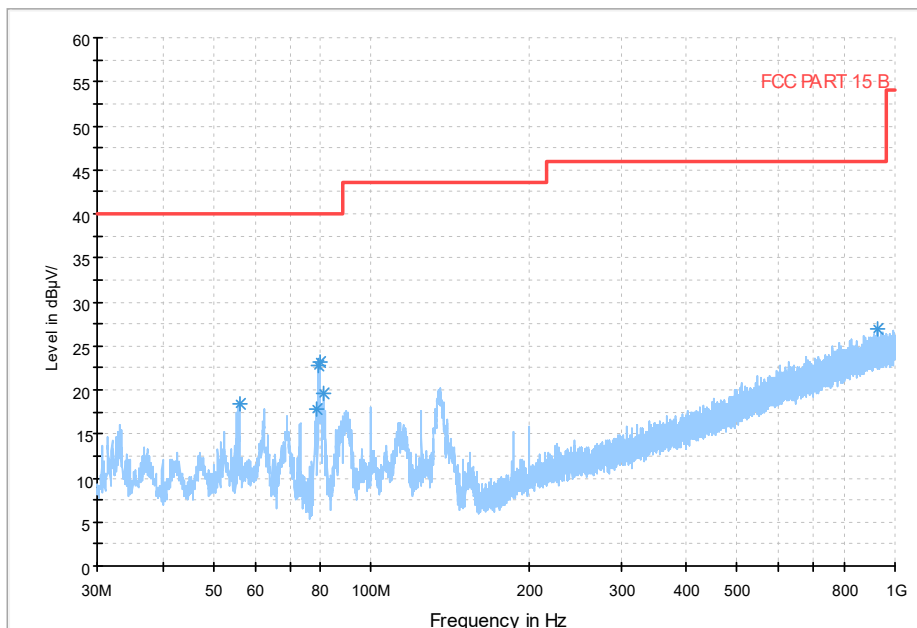


Fig.165 Radiated emission:11g,Ch6, 30MHz-1GHz

RE 1GHz-3GHz

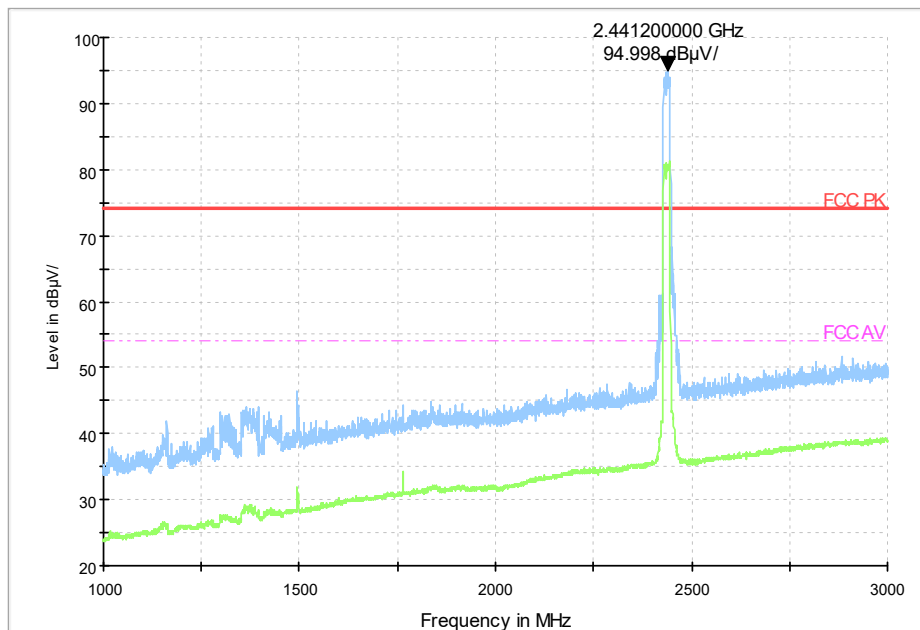


Fig.166 Radiated emission: 11g,Ch6, 1GHz-3GHz

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RE 3GHz-18GHz

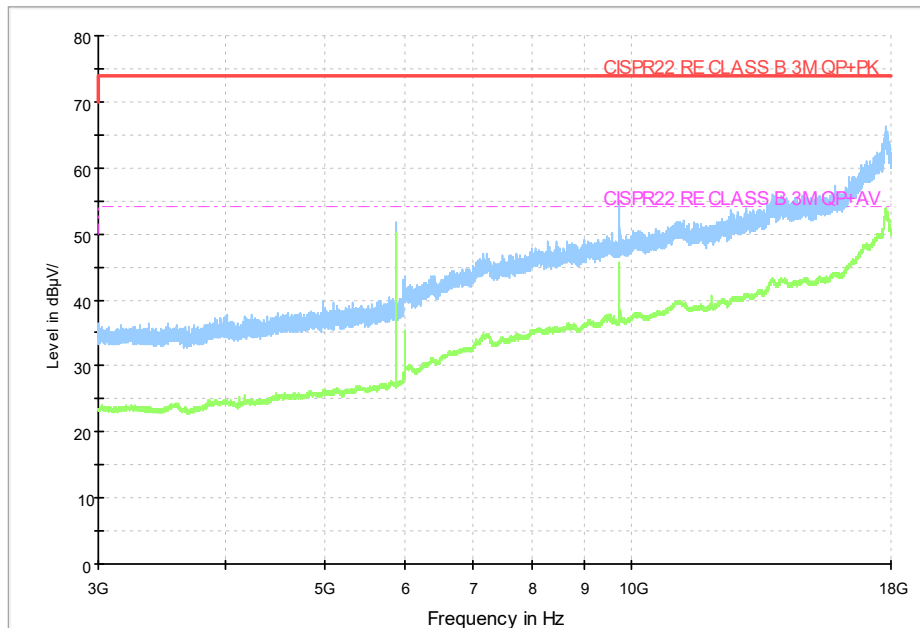


Fig.167 Radiated emission: 11g,Ch6, 3GHz-18GHz

RE 30MHz-1GHz

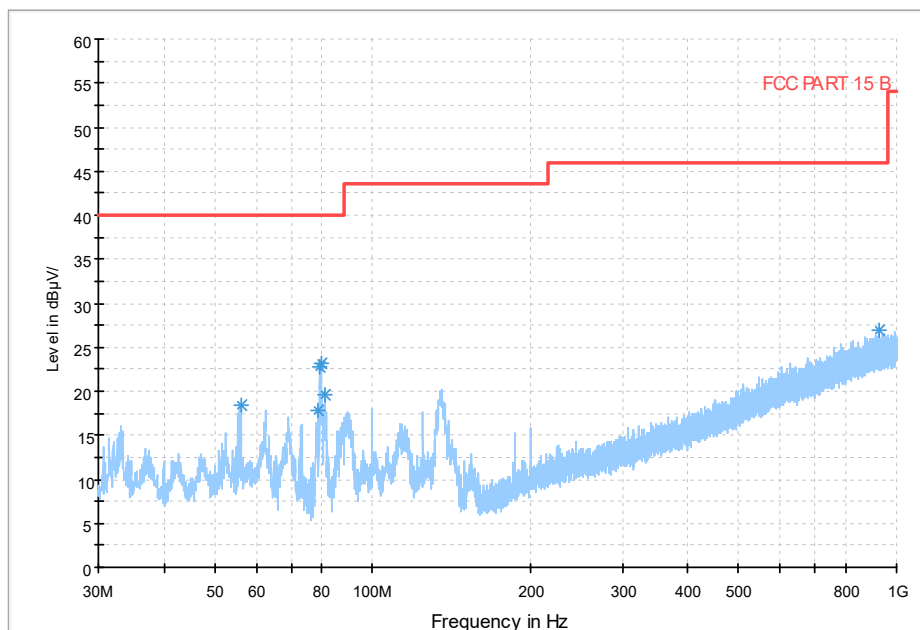


Fig.168 Radiated emission: 11g,Ch11, 30MHz-1GHz

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RE 1GHz-3GHz

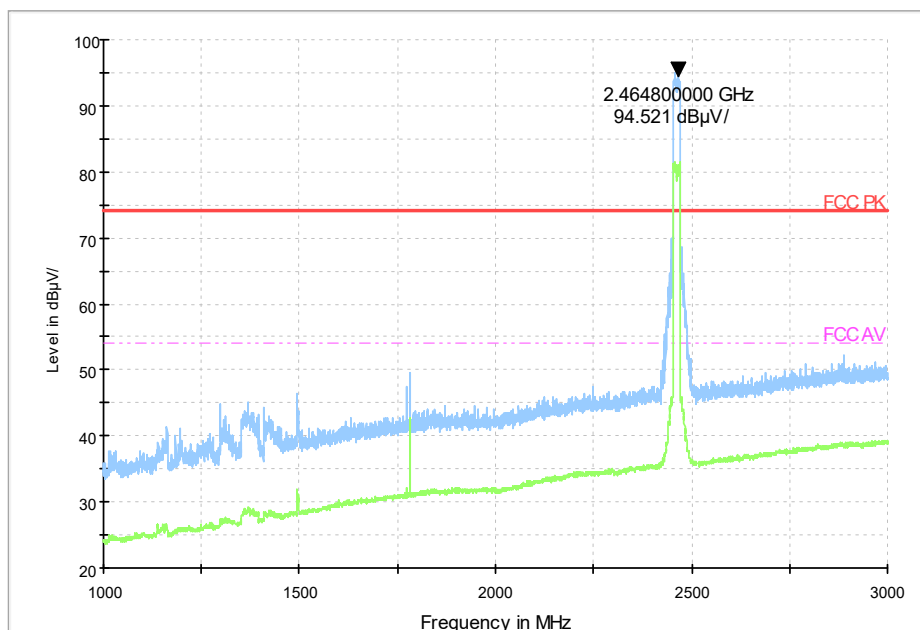


Fig.169 Radiated emission: 11g,Ch11, 1GHz-3GHz

RE 3GHz-18GHz

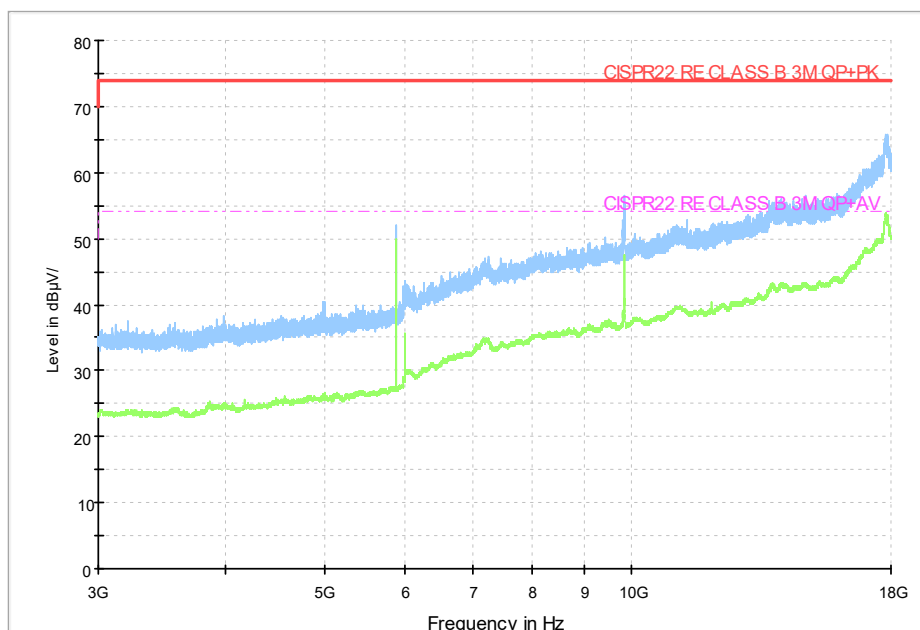


Fig.170 Radiated emission:11g, Ch11, 3GHz-18GHz

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RE 30MHz-1GHz

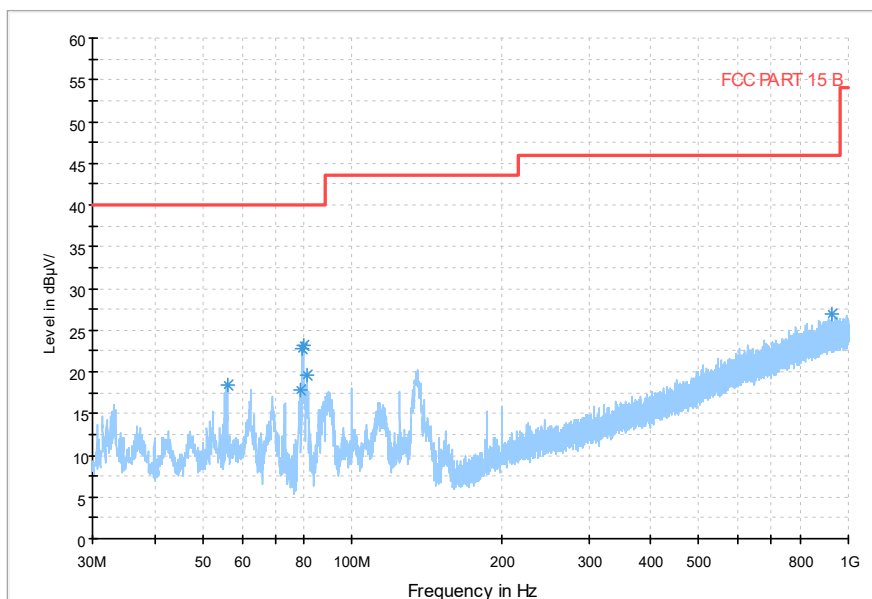


Fig.171 Radiated emission: 11n,20M,Ch1, 30MHz-1GHz

RE 1GHz-3GHz

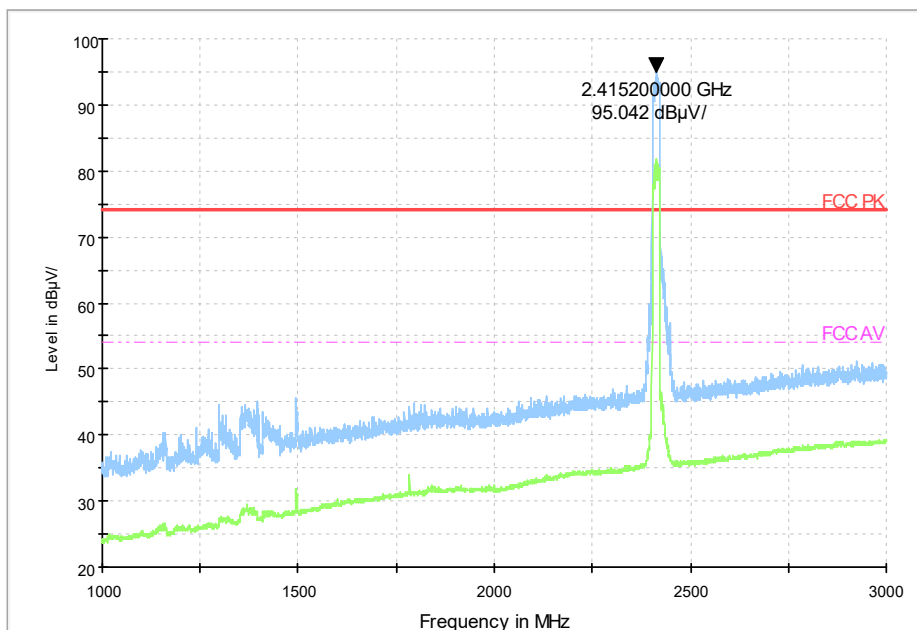


Fig.172 Radiated emission:11n, 20M,Ch1, 1GHz-3GHz

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Report No.:I21W00006-WLAN_Rev2

RE 3GHz-18GHz

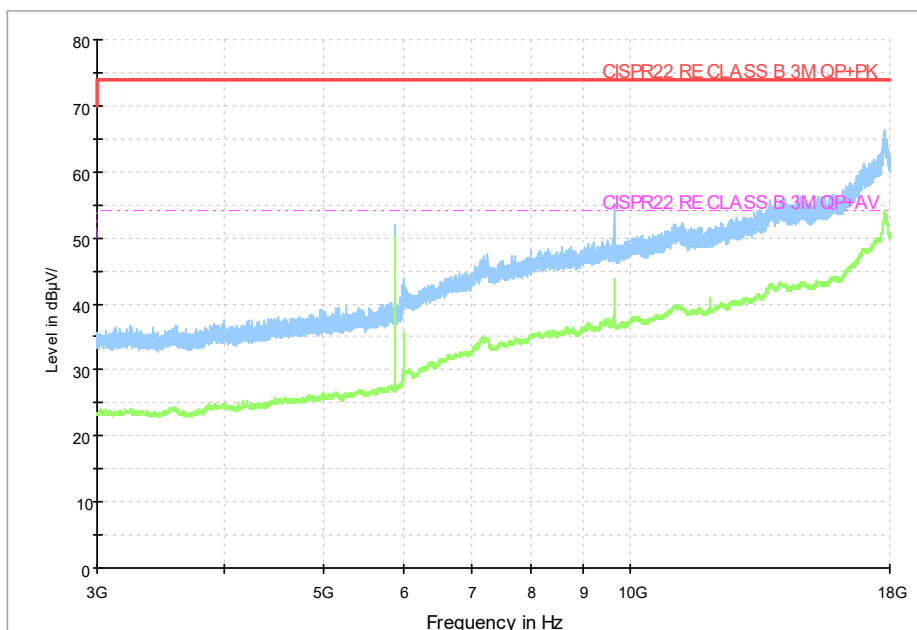


Fig.173 Radiated emission: 11n,20M,Ch1, 3GHz-18GHz

RE 30MHz-1GHz

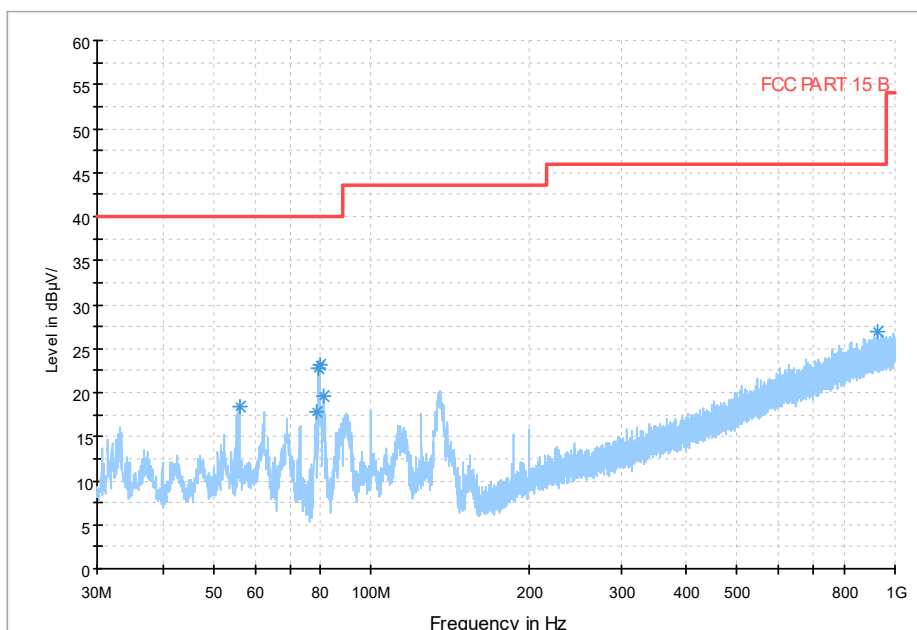


Fig.174 Radiated emission:11n,20M,Ch6, 30MHz-1GHz

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RE 1GHz-3GHz

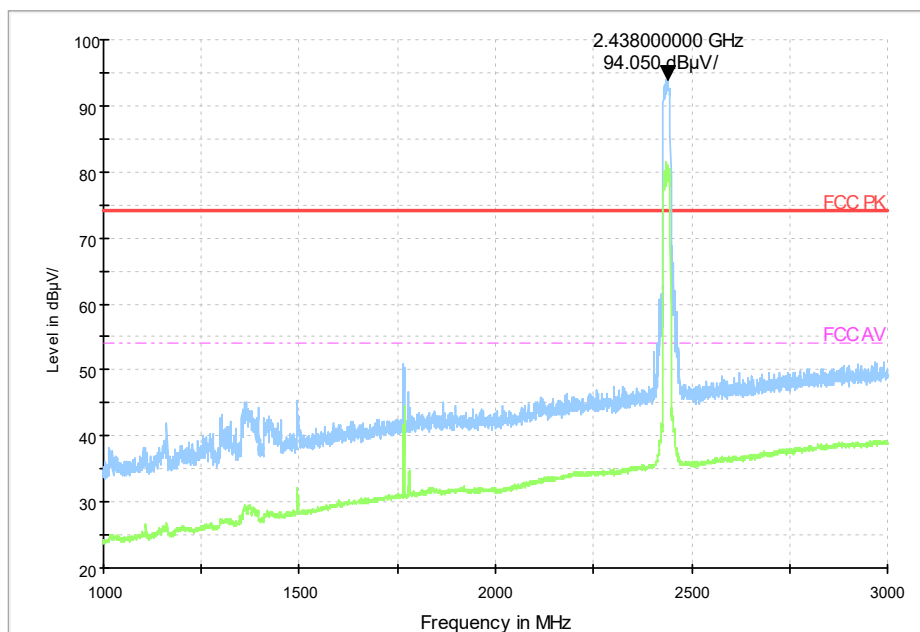


Fig.175 Radiated emission: 11n,20M,Ch6, 1GHz-3GHz

RE 3GHz-18GHz

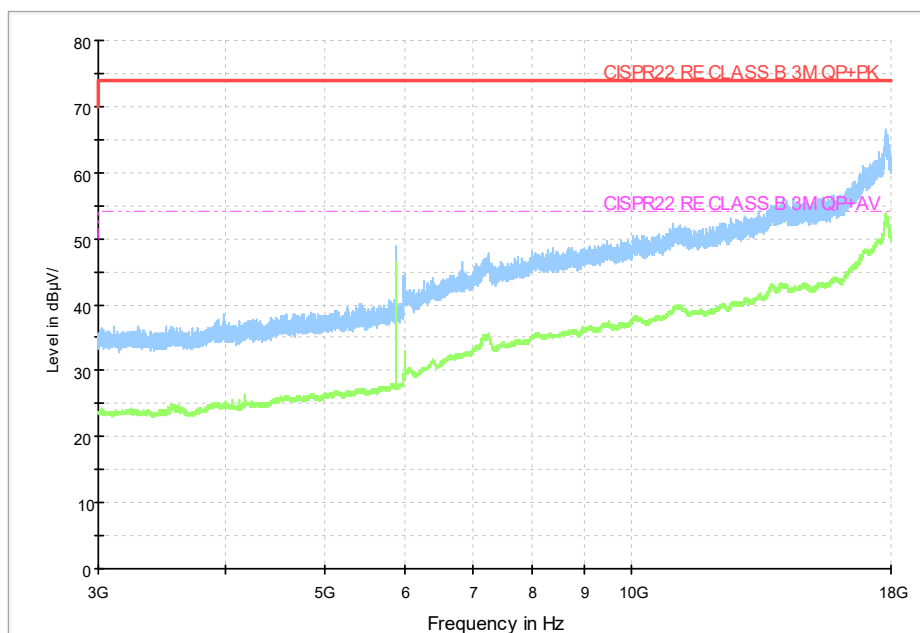


Fig.176 Radiated emission: 11n,20M,Ch6, 3GHz-18GHz

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RE 30MHz-1GHz

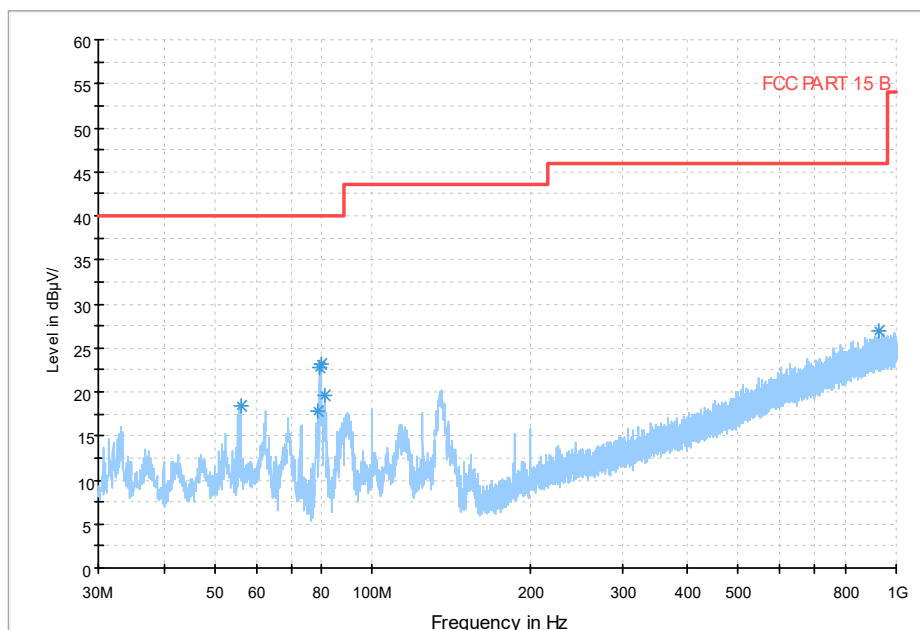


Fig.177 Radiated emission: 11n,20M,Ch11, 30MHz-1GHz

RE 1GHz-3GHz

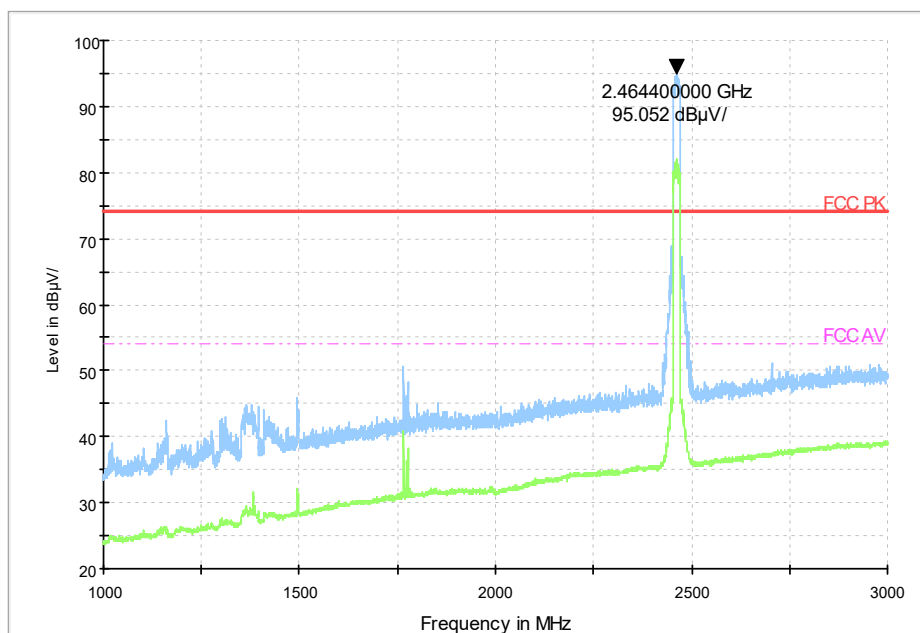


Fig.178 Radiated emission: 11n,20M,Ch11, 1GHz-3GHz

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Report No.:I21W00006-WLAN_Rev2

RE 3GHz-18GHz

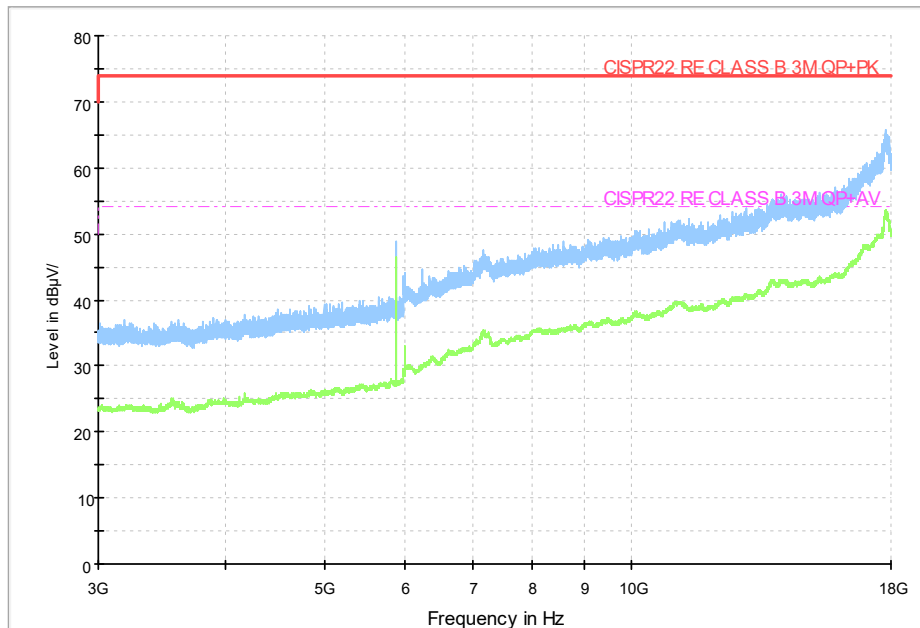


Fig.179 Radiated emission:11n,20M, Ch11, 3GHz-18GHz

RE 30MHz-1GHz

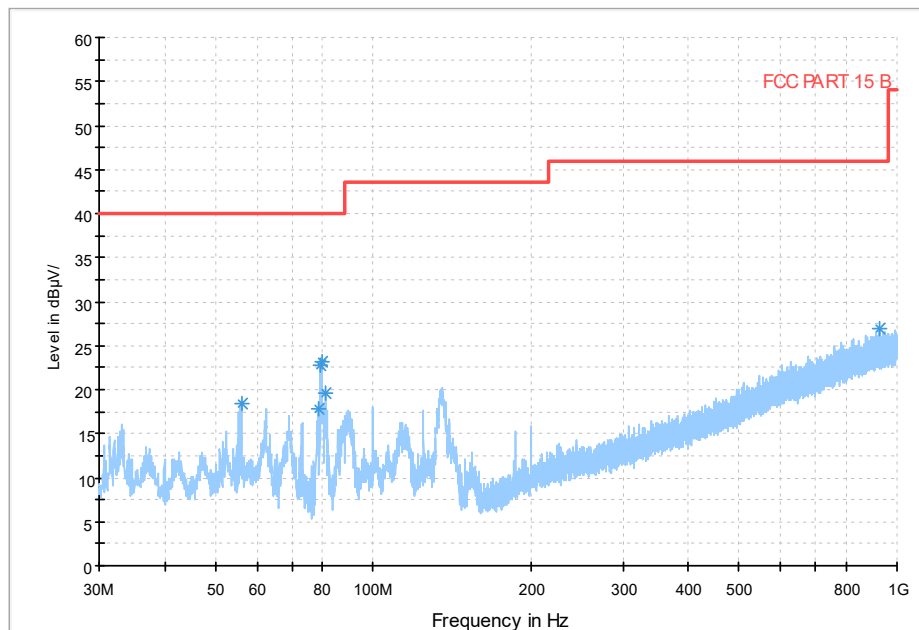


Fig.180 Radiated emission: 11n,40M,Ch3, 30MHz-1GHz

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Report No.:I21W00006-WLAN_Rev2

RE 1GHz-3GHz

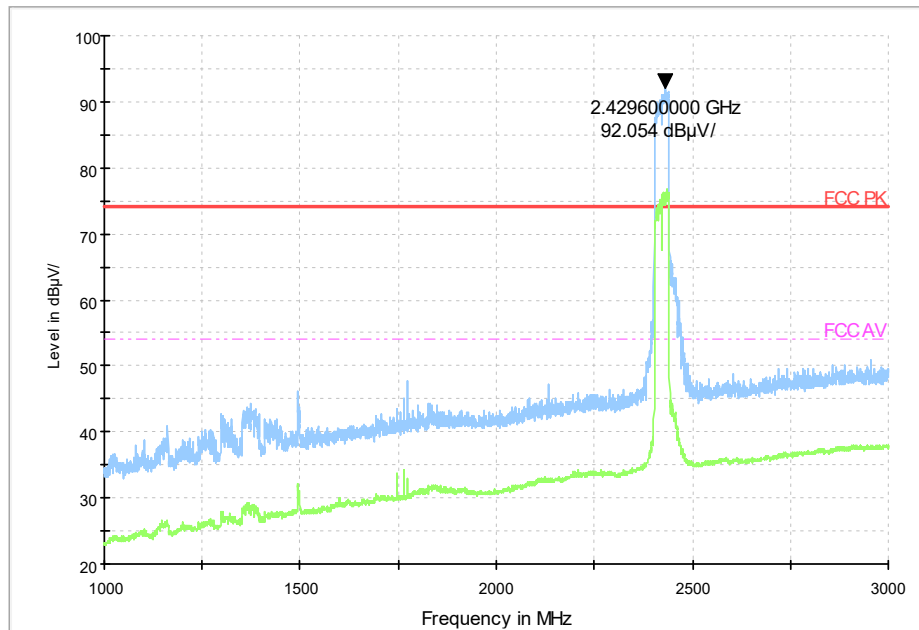


Fig.181 Radiated emission:11n, 40M,Ch3, 1GHz-3GHz

RE 3GHz-18GHz

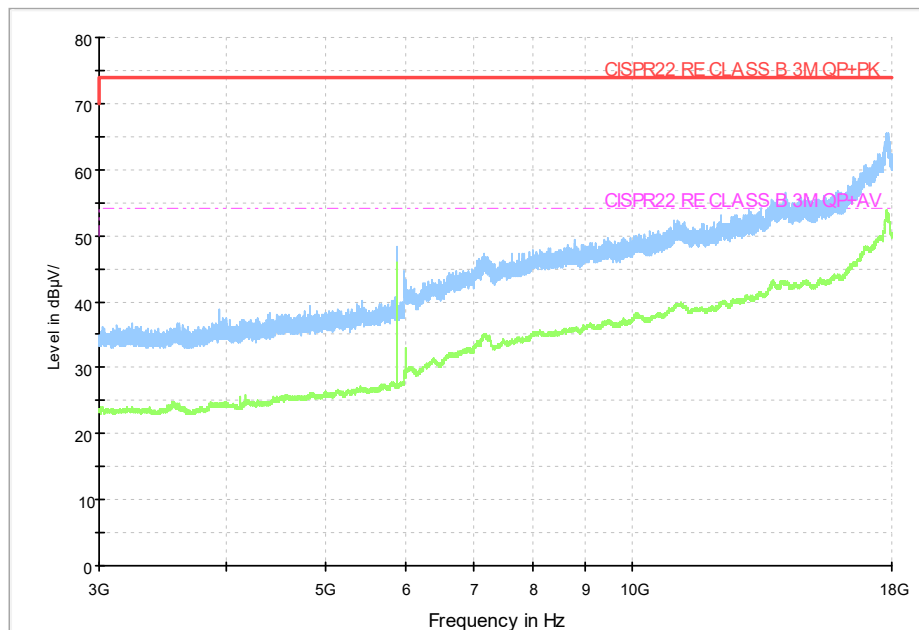


Fig.182 Radiated emission: 11n,40M,Ch3, 3GHz-18GHz

Report No.:I21W00006-WLAN_Rev2

RE 30MHz-1GHz

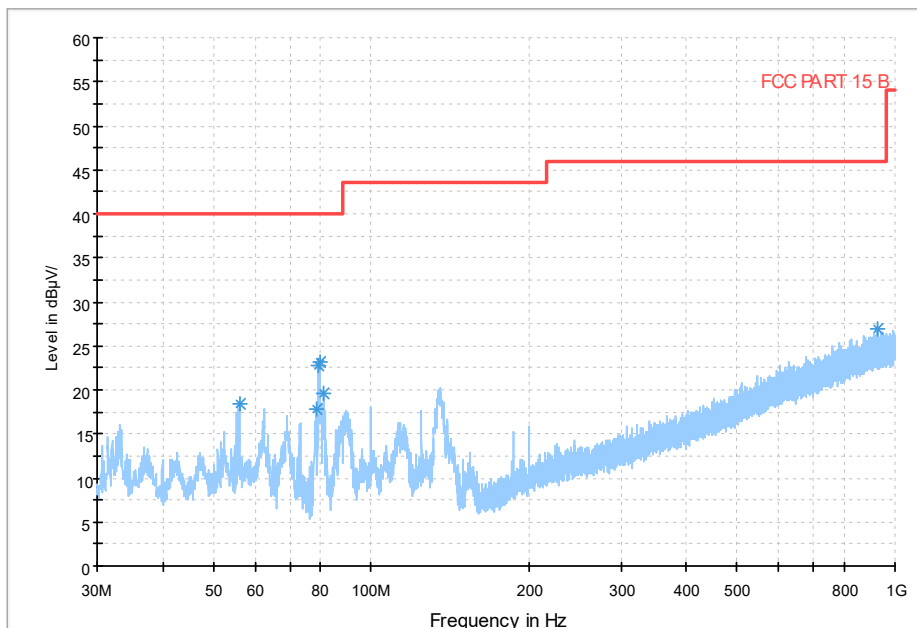


Fig.183 Radiated emission:11n,40M,Ch7, 30MHz-1GHz

RE 1GHz-3GHz

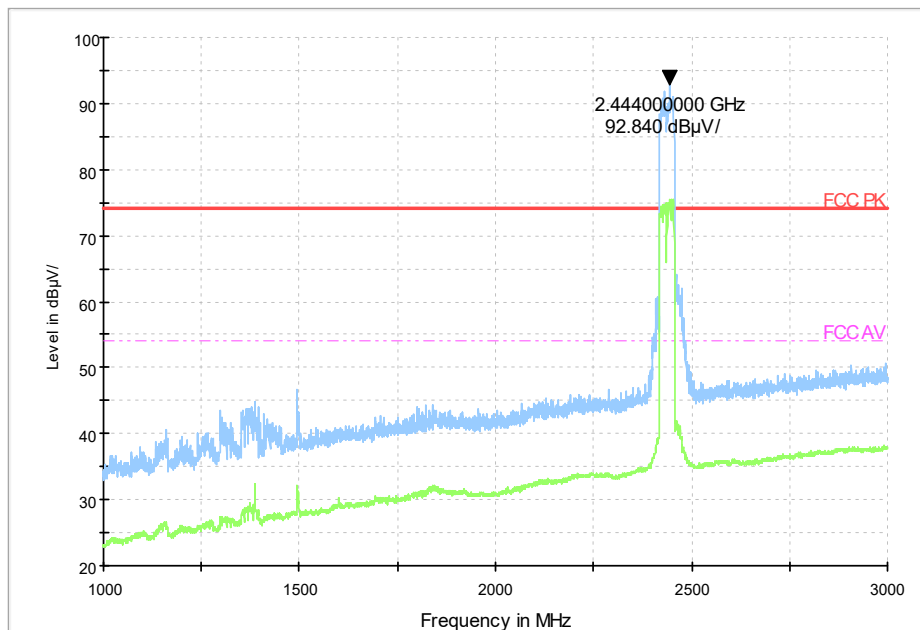


Fig.184 Radiated emission: 11n,40M,Ch7, 1GHz-3GHz

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Report No.:I21W00006-WLAN_Rev2

RE 3GHz-18GHz

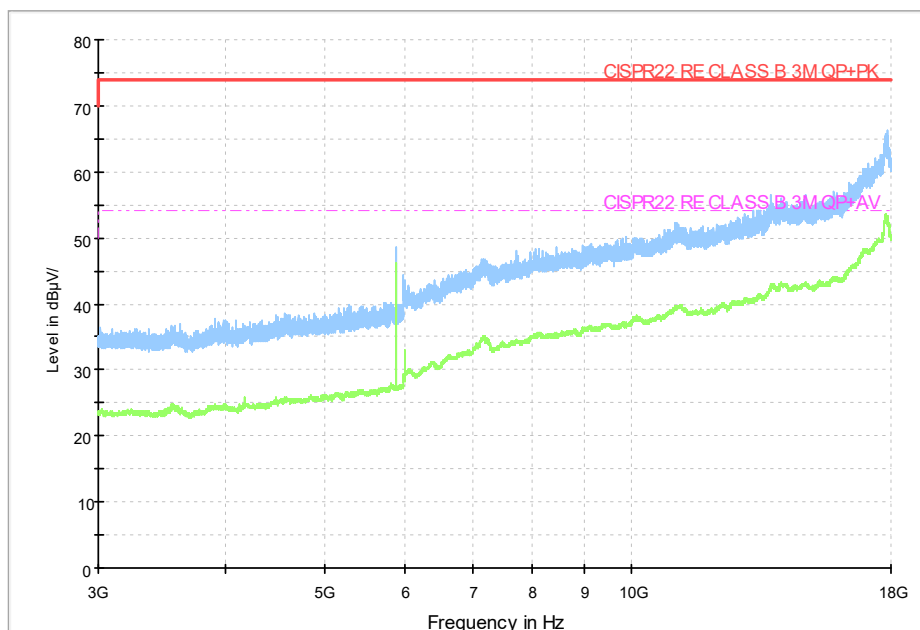


Fig.185 Radiated emission: 11n,40M,Ch7, 3GHz-18GHz

RE 30MHz-1GHz

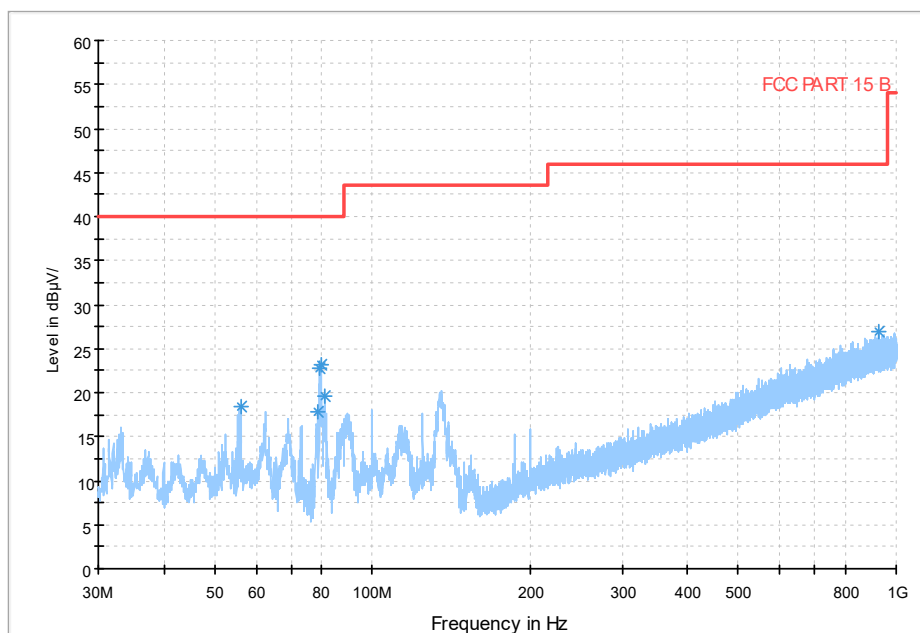


Fig.186 Radiated emission: 11n,40M,Ch11, 30MHz-1GHz

Report No.:I21W00006-WLAN_Rev2

RE 1GHz-3GHz

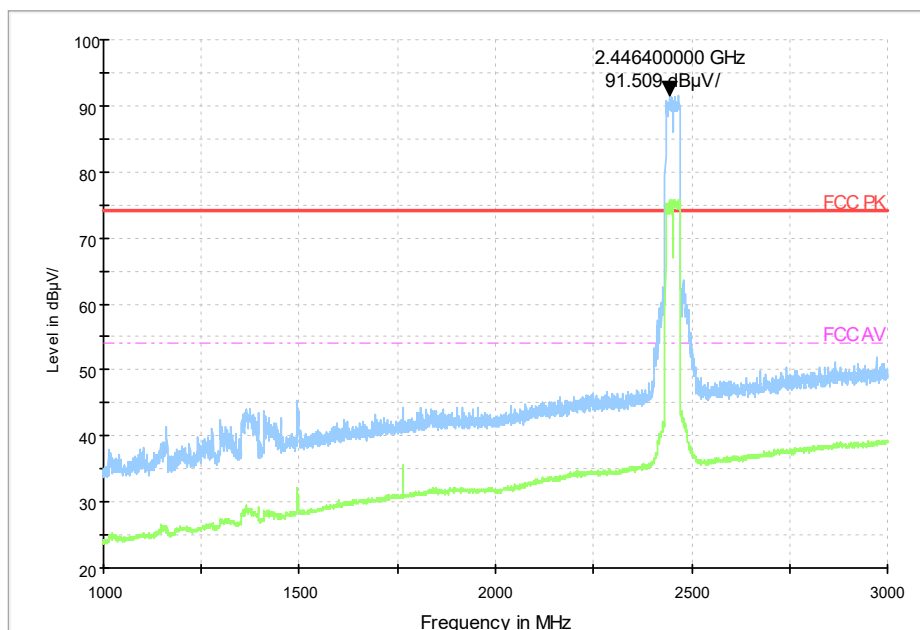


Fig.187 Radiated emission: 11n,40M,Ch11, 1GHz-3GHz

RE 3GHz-18GHz

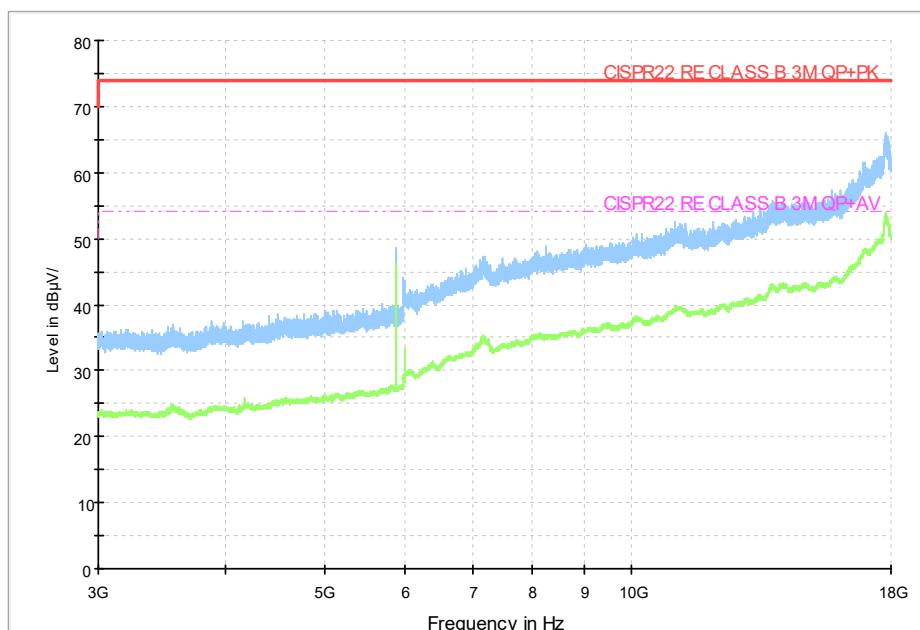


Fig.188 Radiated emission:11n,40M, Ch11, 3GHz-18GHz

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Report No.:I21W00006-WLAN_Rev2

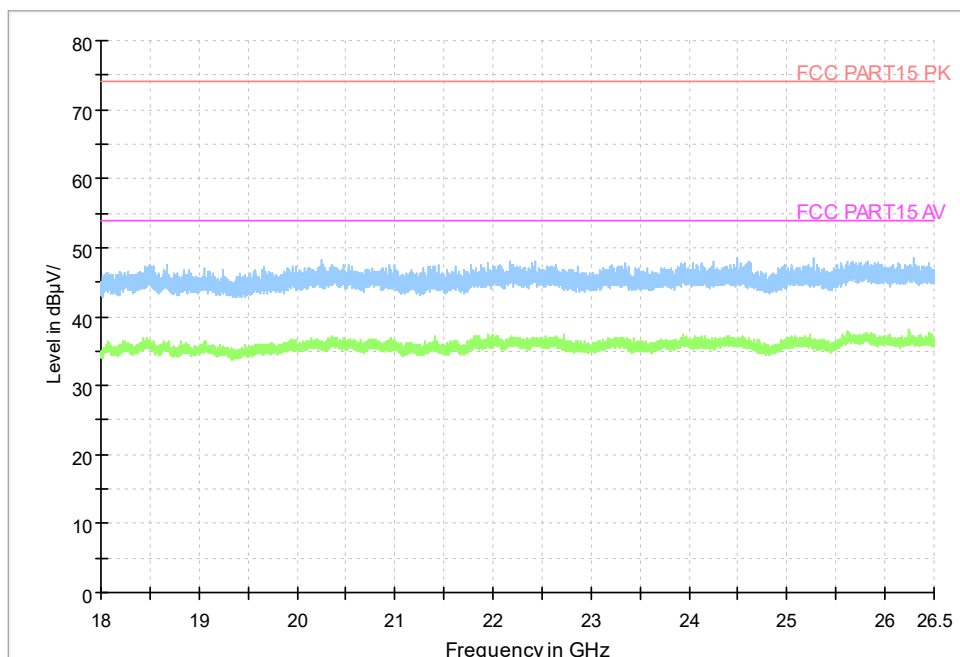


Fig.189 Radiated emission:18GHz-26GHz

Report No.:I21W00006-WLAN_Rev2

Test photo

See the Pic1- Pic 2 in document” Pod Lite _Wifi_BT_Test Setup Photos”.

Report No.:I21W00006-WLAN_Rev2

Annex A EUT Photos

See the document” Pod Lite -External Photos”.

See the document” Pod Lite -Internal Photos”.

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Report No.:I21W00006-WLAN_Rev2

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****End Of Report*****

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