



# TEST REPORT

REPORT NUMBER: I21W00039-WLAN\_5.8G\_Rev1

ON

**Type of Equipment:** Wireless communication module  
**Type of Designation:** SLM900  
**Brand Name:** MEIGLink  
**Manufacturer:** MeiG Smart Technology Co., Ltd  
**FCC ID:** 2APJ4-SLM900

ACCORDING TO

FCC Part 15, Subpart E, 2020:

15.407 General technical requirements

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*

Jan, 10, 2022

*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.: I21W00039-WLAN\_5.8G\_Rev1

Revision Version

Report Number	Revision	Date	Memo
I21W00039-WLAN_5.8G	00	2021-12-02	Initial creation of test report
I21W00039-WLAN_5.8G_Rev1	01	2022-01-10	Second creation of test report

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## 1. Test Laboratory

### 1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

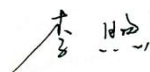
### 1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

### 1.3. Project data

Testing Start Date:	2021-11-15
Testing End Date:	2021-12-02

### 1.4. Signature



2022-01-10

**LiXu**  
(Prepared this test report)

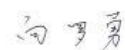
**Date**



2022-01-10

**ChenWen**  
(Reviewed this test report)

**Date**



2022-01-10

**XiangLuoYong**  
Director of the laboratory  
(Approved this test report)

**Date**

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## 2. Client Information

### 2.1. Applicant Information

Company Name:	MeiG Smart Technology Co., Ltd
Address /Post:	Floor 2, No.5 Office Building, Lingxia Road, Fenghuang Community, Fuyong Street, Bao 'an District, Shenzhen
City:	Shenzhen
Country:	China
Telephone:	021-54278676
Fax:	--
Email:	louxinwei@meigsmart.com
Contact Person:	louxinwei

### 2.2. Manufacturer Information

Company Name:	--
Address /Post:	--
City:	--
Country:	--
Telephone:	--
Fax:	--
Email:	--
Contact Person:	--

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### 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

EUT Description	Wireless communication module
Model name	SLM900
Brand name	MEIGLink
WLAN frequency	UNII 1: 5150MHz-5250MHz UNII 2A: 5250MHz-5350MHz UNII 2C: 5470MHz-5725MHz UNII 3: 5725MHz-5850MHz
Antenna description	External Antenna/PIFA Antenna Note:The antenna is used as an accessory for testing
Antenna Gain	5150MHz-5250MHz: 6.49dBi/1.72dBi 5250MHz-5350MHz: 6.49dBi/2.29dBi 5470MHz-5725MHz: 6.49dBi/3.5dBi 5725MHz-5850MHz: 6.49dBi/3.3dBi
Power Class	3
Extreme Temperature	-40/+75°C
Nominal Voltage	3.8
Extreme High Voltage	4.2
Extreme Low Voltage	3.5

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S5	865171050693608	SLM900_MB_V1. 01_PCB	SLM900A_EQ000_2774.1F 29708.FDF14BA_210831_ 100_V01_T04	2021-10-27
S3	865171050693269	SLM900_MB_V1. 01_PCB	SLM900A_EQ000_2774.1F 29708.FDF14BA_210831_ 100_V01_T04	2021-10-27

\*EUT ID: is used to identify the test sample in the lab internally.

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### 3.3. Outline of Equipment under Test

The SLM900, referred to as “EUT” hereafter, is a multi-Band Wireless communication module operating on the GSM/WCDMA/LTE/Wi-Fi/BLUETOOTH networks. The table below shows the supported bands for the EUT.

Technology	Freq.(MHz)	support mode
UNII 1	5150-5250	11a/n/ac
UNII 2A	5250MHz-5350	
UNII 2C	5470MHz-5725	
UNII 3	5725MHz-5850	

### 3.4. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF cable	--
AE2	Antenna 1	6.49
AE3	Antenna 2	1.72/2.29/3.3/3.5

\*AE ID: is used to identify the test sample in the lab internally.

dB\*: is provided customer.

### 3.5. Antenna Requirement

#### 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 .

#### Refer to statement below for compliance .

The manufacturer may design the unit so that the user can replace a broken antenna , but the use of a standard antenna jack or electrical connector is prohibited . Further , this requirement does not apply to intentional radiators that must be professionally installed.

#### Antenna Connected Construction

The antenna used in this product is a External Antenna and PIFA Antenna . It conforms to the standard requirements. The directional gains of External antenna used for transmitting is 6.49dBi,The directional gains of PIFA Antenna used for transmitting is 1.72dBi/2.29dBi/3.3dBi/3.5dBi.

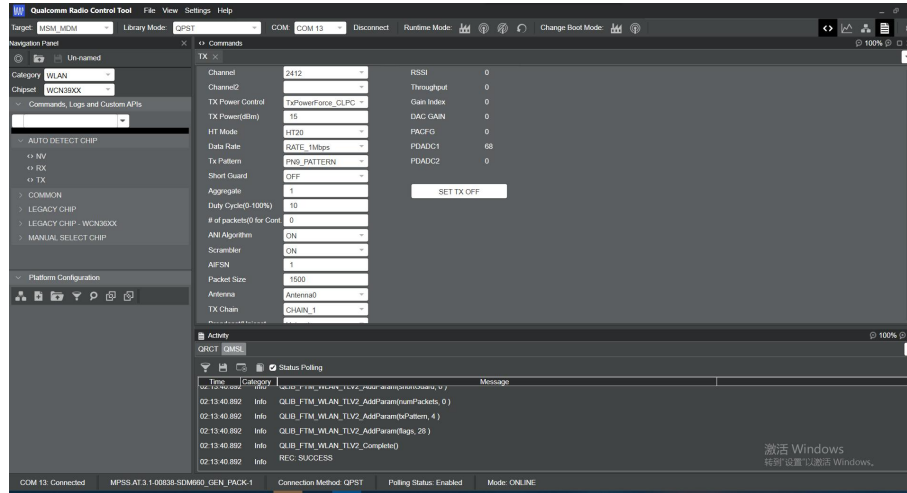
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### 3.6. EUT Test RF Confagle Configuration

EUT uses tool to control emission measurement, Change power level, channel, rate and HT .11b transmitter power level set to 15





#### 4. Reference Documents

##### 4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

##### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart E, 2020 .15.407	General technical requirements	2020
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

## 5. Test Equipments Utilized

### 5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2022-06-11
2	power sensor	NPR8S	102336	--	--	R&S	2022-06-11
3	DC Power Supply	N6705B	MY50000919	--	--	Agilent	2022-06-11

### 5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2022-06-11
2	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2022-11-11
3	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2022-06-11
4	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2022-06-11
5	Horn Antenna	DATE 1152	LM7127	--	--	ETS	2022-08-16
6	Horn Antenna	DATE 1012	LM5945	--	--	ETS	2022-08-16
7	Test Receiver	ESR 3	102477	03	3.48 SP2	R&S	2022-06-11
8	Artificial Main Network	ENV 216	102368	--	--	R&S	2022-06-11

### 5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2022-06-11
2	Fully anechoic chamber	FAC-5	--	TDK	2024-08-30
3	Semi-anechoic chamber	FAC-10	--	TDK	2024-08-28

### 5.4. Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
--	--	--	--	--	--

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**Anechoic chamber**

Fully anechoic chamber by TDK.

**5.5. Test software**

No.	Name	version	SN	Manufacture
1	EMC32	V 9.26.01	--	R&S
2	EMC32	V10.20.10	--	R&S

## 6. Test Results

### 6.1. Summary of Test Results

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

FCC Rules	Name of Test	Result
15.407(a)	Maximum Peak Output Power	Pass
15.407(a)	Peak Power Spectral Density	Pass
15.407(a) 15.407(e)	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	Pass
15.407(b)	Band Edges Compliance	Pass
15.407(b)	Radiated Spurious Emissions	Pass
15.407(b)	Power line Conducted Emissions	Pass
15.407(g)	Frequency Stability	Pass
Note:--		

## 6.2 Maximum conducted(average) power

<b>Specifications:</b>	FCC Part 15.407 (a)
<b>DUT Serial Number:</b>	865171050693608
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

### Limit Level Construction:

The maximum peak output power of the intentional radiator shall not exceed the following:  
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi For the band .  
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

1. 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

### Measurement Uncertainty:

Measurement Uncertainty	±1.0dB
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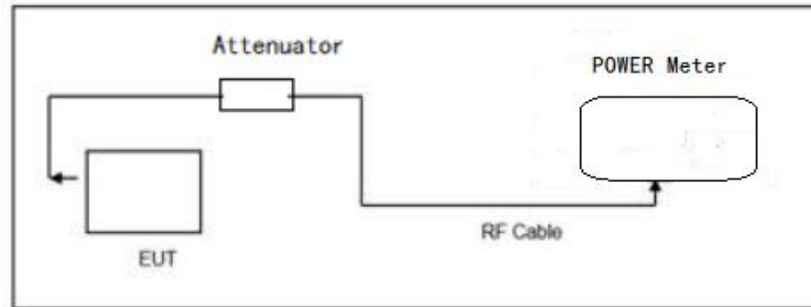
### Test Procedure:

- 1) The RF output of EUT was connected to the broadband average RF power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2) Set to the maximum power setting and enable the EUT transmit continuously.
- 3) Measure the conducted output power and record the results in the test report.

### Test block diagram:

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**Measurement Results:**

**5150-5250MHz:**

**802.11a mode**

Mode	Data Rate(Mbps)	Test Result(dBm)			Conclusion
		Ch36	Ch40	Ch48	
802.11a	6	13.27	13.11	13.29	Pass
	9	13.08	13.09	13.27	Pass
	12	13.10	13.14	13.40	Pass
	18	13.77	13.80	14.02	Pass
	24	14.11	14.25	14.34	Pass
	36	13.10	13.17	13.69	Pass
	48	13.12	13.26	13.75	Pass
	54	13.21	13.38	13.91	Pass

**802.11n mode**

Mode	Data Rate(Mbps)	Test Result(dBm)			Conclusion
		Ch36	Ch40	Ch48	
802.11n (20MHz)	MCS0	13.52	13.33	13.36	Pass
	MCS1	13.22	13.28	13.32	Pass
	MCS2	13.87	13.90	13.99	Pass
	MCS3	14.14	14.17	14.21	Pass
	MCS4	13.31	13.36	13.61	Pass
	MCS5	13.41	13.37	13.68	Pass
	MCS6	13.34	13.51	13.68	Pass
	MCS7	13.36	13.58	13.66	Pass

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802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch38	Ch46	
802.11n (40MHz)	MCS0	13.50	13.04	Pass
	MCS1	13.17	13.09	Pass
	MCS2	13.10	13.14	Pass
	MCS3	13.46	13.47	Pass
	MCS4	12.69	12.71	Pass
	MCS5	12.72	12.73	Pass
	MCS6	12.65	12.67	Pass
	MCS7	12.70	12.73	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch36	Ch40	Ch48	
802.11ac (20MHz)	MCS0	15.88	15.83	16.24	Pass
	MCS1	15.57	15.80	15.95	Pass
	MCS2	16.20	15.94	16.61	Pass
	MCS3	16.39	16.68	16.74	Pass
	MCS4	15.46	15.84	16.23	Pass
	MCS5	15.52	15.86	16.32	Pass
	MCS6	15.53	15.95	15.65	Pass
	MCS7	15.56	16.02	16.18	Pass
	MCS8	15.60	16.08	15.71	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch38	Ch46	
802.11ac (40MHz)	MCS0	13.07	13.13	Pass
	MCS1	13.13	13.09	Pass
	MCS2	13.20	13.03	Pass
	MCS3	13.56	13.38	Pass
	MCS4	12.68	12.71	Pass
	MCS5	12.74	12.77	Pass
	MCS6	12.20	12.77	Pass
	MCS7	12.76	12.71	Pass
	MCS8	12.75	12.72	Pass
	MCS9	12.74	12.68	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)	Conclusion
		Ch42	
802.11ac (80MHz)	MCS0	13.93	Pass
	MCS1	13.84	Pass
	MCS2	13.44	Pass
	MCS3	13.74	Pass
	MCS4	13.96	Pass
	MCS5	13.20	Pass
	MCS6	13.27	Pass
	MCS7	13.22	Pass
	MCS8	13.24	Pass
	MCS9	13.22	Pass

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5250-5350MHz:

802.11a mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch52	Ch60	Ch64	
802.11a	6	13.37	13.31	13.57	Pass
	9	13.27	13.30	13.52	Pass
	12	13.32	13.36	13.57	Pass
	18	14.01	14.00	14.21	Pass
	24	14.37	14.37	14.53	Pass
	36	13.68	13.70	13.81	Pass
	48	13.58	13.79	13.96	Pass
	54	13.76	13.89	14.01	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch52	Ch60	Ch64	
802.11n (20MHz)	MCS0	13.27	13.42	13.42	Pass
	MCS1	13.16	13.28	13.46	Pass
	MCS2	13.82	13.93	14.04	Pass
	MCS3	14.04	14.20	14.30	Pass
	MCS4	13.44	13.51	13.69	Pass
	MCS5	13.47	13.55	13.71	Pass
	MCS6	13.50	13.53	13.71	Pass
	MCS7	13.68	13.56	13.79	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch54	Ch62	
802.11n (40MHz)	MCS0	13.11	13.34	Pass
	MCS1	13.06	13.13	Pass
	MCS2	13.08	13.15	Pass
	MCS3	13.38	13.44	Pass
	MCS4	12.68	13.39	Pass
	MCS5	12.70	13.39	Pass
	MCS6	12.69	12.76	Pass
	MCS7	12.76	12.84	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch52	Ch60	Ch64	
802.11ac (20MHz)	MCS0	15.59	15.63	15.83	Pass
	MCS1	15.62	15.63	16.44	Pass
	MCS2	15.88	16.28	16.45	Pass
	MCS3	16.46	16.45	16.62	Pass
	MCS4	15.75	15.79	16.01	Pass
	MCS5	15.84	15.82	16.06	Pass
	MCS6	15.81	15.86	16.09	Pass
	MCS7	15.87	15.85	16.11	Pass
	MCS8	15.97	15.90	16.04	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch54	Ch62	
802.11ac (40MHz)	MCS0	13.16	13.06	Pass
	MCS1	12.98	13.20	Pass
	MCS2	13.10	13.22	Pass
	MCS3	13.46	13.50	Pass
	MCS4	12.69	12.67	Pass
	MCS5	12.71	12.75	Pass
	MCS6	12.68	12.73	Pass
	MCS7	12.66	12.76	Pass
	MCS8	12.68	12.78	Pass
	MCS9	12.76	12.89	Pass

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## 802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch58			
802.11ac (80MHz)	MCS0	14.48			Pass
	MCS1	14.34			Pass
	MCS2	14.37			Pass
	MCS3	14.52			Pass
	MCS4	14.01			Pass
	MCS5	14.08			Pass
	MCS6	14.02			Pass
	MCS7	14.08			Pass
	MCS8	14.04			Pass
	MCS9	14.03			Pass

5470-5725MHz:

## 802.11a mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch100	Ch116	Ch140	
802.11a	6	11.71	11.04	12.86	Pass
	9	11.59	11.19	12.81	Pass
	12	11.56	11.15	13.02	Pass
	18	12.19	11.75	13.59	Pass
	24	12.58	12.06	13.91	Pass
	36	11.9.	11.42	12.57	Pass
	48	12.02	11.52	13.29	Pass
	54	12.11	11.10	13.39	Pass

## 802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch100	Ch116	Ch140	
802.11n (20MHz)	MCS0	11.73	11.48	12.95	Pass
	MCS1	11.56	11.44	12.89	Pass
	MCS2	12.14	12.02	13.48	Pass
	MCS3	12.41	12.28	13.75	Pass
	MCS4	11.83	11.73	13.08	Pass
	MCS5	11.91	11.76	13.18	Pass
	MCS6	11.96	11.78	13.21	Pass
	MCS7	12.00	12.02	13.22	Pass

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**802.11n mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch102	Ch110	Ch134	
802.11n (40MHz)	MCS0	11.31	11.15	13.73	Pass
	MCS1	11.21	11.15	13.68	Pass
	MCS2	11.20	11.11	13.64	Pass
	MCS3	11.53	11.33	13.95	Pass
	MCS4	10.97	10.82	13.40	Pass
	MCS5	10.96	10.87	13.48	Pass
	MCS6	10.96	10.86	12.96	Pass
	MCS7	10.98	10.91	13.48	Pass

**802.11ac VHT mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch100	Ch116	Ch140	
802.11ac (20MHz)	MCS0	13.20	13.02	14.67	Pass
	MCS1	13.12	13.28	14.60	Pass
	MCS2	13.53	13.92	15.24	Pass
	MCS3	13.50	14.09	15.47	Pass
	MCS4	12.96	13.59	14.68	Pass
	MCS5	13.04	13.68	14.74	Pass
	MCS6	13.13	13.66	14.79	Pass
	MCS7	13.06	13.66	14.70	Pass
	MCS8	13.06	13.72	14.78	Pass



802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch102	Ch110	Ch134	
802.11ac (40MHz)	MCS0	11.28	11.11	13.71	Pass
	MCS1	11.17	11.08	13.64	Pass
	MCS2	11.17	11.08	13.67	Pass
	MCS3	11.08	11.39	13.96	Pass
	MCS4	10.95	10.82	13.40	Pass
	MCS5	11.01	10.87	13.42	Pass
	MCS6	10.95	10.87	13.35	Pass
	MCS7	10.97	10.82	13.38	Pass
	MCS8	10.91	10.82	13.39	Pass
	MCS9	10.93	10.82	13.38	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch106	Ch122	
802.11ac (80MHz)	MCS0	10.92	11.65	Pass
	MCS1	10.85	11.59	Pass
	MCS2	10.87	11.59	Pass
	MCS3	11.00	11.74	Pass
	MCS4	10.47	11.16	Pass
	MCS5	10.49	11.16	Pass
	MCS6	10.51	11.18	Pass
	MCS7	10.49	11.14	Pass
	MCS8	10.46	11.15	Pass
	MCS9	10.51	11.15	Pass

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5725-5850MHz:

802.11a mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch149	Ch157	Ch165	
802.11a	6	12.60	12.98	13.46	Pass
	9	12.55	12.97	13.60	Pass
	12	12.57	12.99	13.44	Pass
	18	13.22	13.67	14.15	Pass
	24	13.57	14.04	14.51	Pass
	36	12.85	13.44	13.77	Pass
	48	12.96	13.50	13.85	Pass
	54	13.02	13.66	13.95	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch149	Ch157	Ch165	
802.11n (20MHz)	MCS0	14.86	15.32	15.55	Pass
	MCS1	14.64	15.20	15.26	Pass
	MCS2	15.33	15.92	15.84	Pass
	MCS3	15.62	16.22	16.10	Pass
	MCS4	14.78	15.63	15.45	Pass
	MCS5	14.88	15.69	15.61	Pass
	MCS6	14.88	15.75	15.67	Pass
	MCS7	14.92	15.63	15.69	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch151	Ch159	
802.11n (40MHz)	MCS0	12.08	12.69	Pass
	MCS1	12.03	12.64	Pass
	MCS2	12.02	12.61	Pass
	MCS3	12.27	13.00	Pass
	MCS4	11.67	12.35	Pass
	MCS5	11.67	12.48	Pass
	MCS6	11.70	12.49	Pass
	MCS7	11.80	12.43	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch149	Ch157	Ch165	
802.11ac (20MHz)	MCS0	14.55	15.40	14.98	Pass
	MCS1	14.58	15.36	15.02	Pass
	MCS2	15.22	16.04	15.68	Pass
	MCS3	15.45	16.24	15.93	Pass
	MCS4	14.69	15.78	15.33	Pass
	MCS5	14.90	15.79	15.56	Pass
	MCS6	14.79	15.87	15.53	Pass
	MCS7	14.77	15.85	15.53	Pass
	MCS8	14.82	15.81	15.66	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch151	Ch159	
802.11ac (40MHz)	MCS0	12.09	12.69	Pass
	MCS1	12.01	12.60	Pass
	MCS2	12.01	12.62	Pass
	MCS3	12.22	12.98	Pass
	MCS4	11.67	12.34	Pass
	MCS5	11.69	12.40	Pass
	MCS6	11.74	12.39	Pass
	MCS7	11.71	12.41	Pass
	MCS8	11.73	12.36	Pass
	MCS9	11.70	12.41	Pass

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**802.11ac VHT mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch155			
802.11ac (80MHz)	MCS0	12.56			Pass
	MCS1	12.49			Pass
	MCS2	12.49			Pass
	MCS3	12.65			Pass
	MCS4	12.18			Pass
	MCS5	12.20			Pass
	MCS6	12.23			Pass
	MCS7	12.14			Pass
	MCS8	12.17			Pass
	MCS9	12.20			Pass

**EIRP Results:**

**5150-5250MHz:**

**802.11a mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch36	Ch40	Ch48	
802.11a	6	19.76	19.60	19.78	Pass
	9	19.57	19.58	19.76	Pass
	12	19.59	19.63	19.89	Pass
	18	20.26	20.29	20.51	Pass
	24	20.6	20.74	20.83	Pass
	36	19.59	19.66	20.18	Pass
	48	19.61	19.75	20.24	Pass
	54	19.70	19.87	20.40	Pass

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**802.11n mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch36	Ch40	Ch48	
802.11n (20MHz)	MCS0	20.01	19.82	19.85	Pass
	MCS1	19.71	19.77	19.81	Pass
	MCS2	20.36	20.39	20.48	Pass
	MCS3	20.63	20.66	20.70	Pass
	MCS4	19.80	19.85	20.10	Pass
	MCS5	19.90	19.86	20.17	Pass
	MCS6	19.83	20.00	20.17	Pass
	MCS7	19.85	20.07	20.15	Pass

**802.11n mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch38	Ch46	
802.11n (40MHz)	MCS0	19.99	19.53	Pass
	MCS1	19.66	19.58	Pass
	MCS2	19.59	19.63	Pass
	MCS3	19.95	19.96	Pass
	MCS4	19.18	19.20	Pass
	MCS5	19.21	19.22	Pass
	MCS6	19.14	19.16	Pass
	MCS7	19.19	19.22	Pass

**802.11ac VHT mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch36	Ch40	Ch48	
802.11ac (20MHz)	MCS0	22.37	22.32	22.73	Pass
	MCS1	22.06	22.29	22.44	Pass
	MCS2	22.69	22.43	23.10	Pass
	MCS3	22.88	23.17	23.23	Pass
	MCS4	21.95	22.33	22.72	Pass
	MCS5	22.01	22.35	22.81	Pass
	MCS6	22.02	22.44	22.14	Pass
	MCS7	22.05	22.51	22.67	Pass
	MCS8	22.09	22.57	22.2	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch38	Ch46	
802.11ac (40MHz)	MCS0	19.56	19.62	Pass
	MCS1	19.62	19.58	Pass
	MCS2	19.69	19.52	Pass
	MCS3	20.05	19.87	Pass
	MCS4	19.17	19.2	Pass
	MCS5	19.23	19.26	Pass
	MCS6	18.69	19.26	Pass
	MCS7	19.25	19.20	Pass
	MCS8	19.24	19.21	Pass
	MCS9	19.23	19.17	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)	Conclusion
		Ch42	
802.11ac (80MHz)	MCS0	20.42	Pass
	MCS1	20.33	Pass
	MCS2	19.93	Pass
	MCS3	20.23	Pass
	MCS4	20.45	Pass
	MCS5	19.69	Pass
	MCS6	19.76	Pass
	MCS7	19.71	Pass
	MCS8	19.73	Pass
	MCS9	19.71	Pass

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5250-5350MHz:

802.11a mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch52	Ch60	Ch64	
802.11a	6	19.86	19.80	20.06	Pass
	9	19.76	19.79	20.01	Pass
	12	19.81	19.85	20.06	Pass
	18	20.50	20.49	20.70	Pass
	24	20.86	20.86	21.02	Pass
	36	20.17	20.19	20.30	Pass
	48	20.07	20.28	20.45	Pass
	54	20.25	20.38	20.50	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch52	Ch60	Ch64	
802.11n (20MHz)	MCS0	19.76	19.91	19.91	Pass
	MCS1	19.65	19.77	19.95	Pass
	MCS2	20.31	20.42	20.53	Pass
	MCS3	20.53	20.69	20.79	Pass
	MCS4	19.93	20.00	20.18	Pass
	MCS5	19.96	20.04	20.20	Pass
	MCS6	19.99	20.02	20.20	Pass
	MCS7	20.17	20.05	20.28	Pass

802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch54	Ch62	
802.11n (40MHz)	MCS0	19.60	19.83	Pass
	MCS1	19.55	19.62	Pass
	MCS2	19.57	19.64	Pass
	MCS3	19.87	19.93	Pass
	MCS4	19.17	19.88	Pass
	MCS5	19.19	19.88	Pass
	MCS6	19.18	19.25	Pass
	MCS7	19.25	19.33	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch52	Ch60	Ch64	
802.11ac (20MHz)	MCS0	22.08	22.12	22.32	Pass
	MCS1	22.11	22.12	22.93	Pass
	MCS2	22.37	22.77	22.94	Pass
	MCS3	22.95	22.94	23.11	Pass
	MCS4	22.24	22.28	22.50	Pass
	MCS5	22.33	22.31	22.55	Pass
	MCS6	22.30	22.35	22.58	Pass
	MCS7	22.36	22.34	22.60	Pass
	MCS8	22.46	22.39	22.53	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch54	Ch62	
802.11ac (40MHz)	MCS0	19.65	19.55	Pass
	MCS1	19.47	19.69	Pass
	MCS2	19.59	19.71	Pass
	MCS3	19.95	19.99	Pass
	MCS4	19.18	19.16	Pass
	MCS5	19.2.	19.24	Pass
	MCS6	19.17	19.22	Pass
	MCS7	19.15	19.25	Pass
	MCS8	19.17	19.27	Pass
	MCS9	19.25	19.38	Pass

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**802.11ac VHT mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch58			
802.11ac (80MHz)	MCS0	20.97			Pass
	MCS1	20.83			Pass
	MCS2	20.86			Pass
	MCS3	21.01			Pass
	MCS4	20.50			Pass
	MCS5	20.57			Pass
	MCS6	20.51			Pass
	MCS7	20.57			Pass
	MCS8	20.53			Pass
	MCS9	20.52			Pass

5470-5725MHz:

**802.11a mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch100	Ch116	Ch140	
802.11a	6	18.20	17.53	19.35	Pass
	9	18.08	17.68	19.30	Pass
	12	18.05	17.64	19.51	Pass
	18	18.68	18.24	20.08	Pass
	24	19.07	18.55	20.40	Pass
	36	18.39	17.91	19.06	Pass
	48	18.51	18.01	19.78	Pass
	54	18.60	17.59	19.88	Pass

**802.11n mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch100	Ch116	Ch140	
802.11n (20MHz)	MCS0	18.22	17.97	19.44	Pass
	MCS1	18.05	17.93	19.38	Pass
	MCS2	18.63	18.51	19.97	Pass
	MCS3	18.90	18.77	20.24	Pass
	MCS4	18.32	18.22	19.57	Pass
	MCS5	18.40	18.25	19.67	Pass
	MCS6	18.45	18.27	19.70	Pass
	MCS7	18.49	18.51	19.71	Pass

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**802.11n mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch102	Ch110	Ch134	
802.11n (40MHz)	MCS0	17.80	17.64	20.22	Pass
	MCS1	17.70	17.64	20.17	Pass
	MCS2	17.69	17.60	20.13	Pass
	MCS3	18.02	17.82	20.44	Pass
	MCS4	17.46	17.31	19.89	Pass
	MCS5	17.45	17.36	19.97	Pass
	MCS6	17.45	17.35	19.45	Pass
	MCS7	17.47	17.40	19.97	Pass

**802.11ac VHT mode**

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch100	Ch116	Ch140	
802.11ac (20MHz)	MCS0	19.69	19.54	21.16	Pass
	MCS1	19.61	19.77	21.09	Pass
	MCS2	20.02	20.41	21.73	Pass
	MCS3	19.99	20.58	21.96	Pass
	MCS4	19.45	20.08	21.17	Pass
	MCS5	19.53	20.17	21.23	Pass
	MCS6	19.62	20.15	21.28	Pass
	MCS7	19.55	20.15	21.19	Pass
	MCS8	19.55	20.21	21.27	Pass



802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch102	Ch110	Ch134	
802.11ac (40MHz)	MCS0	17.77	17.60	20.20	Pass
	MCS1	17.66	17.57	20.13	Pass
	MCS2	17.66	17.57	20.16	Pass
	MCS3	17.57	17.88	20.45	Pass
	MCS4	17.44	17.31	19.89	Pass
	MCS5	17.50	17.36	19.91	Pass
	MCS6	17.44	17.36	19.84	Pass
	MCS7	17.46	17.31	19.87	Pass
	MCS8	17.40	17.31	19.88	Pass
	MCS9	17.42	17.31	19.87	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch106	Ch122	
802.11ac (80MHz)	MCS0	17.41	18.14	Pass
	MCS1	17.34	18.08	Pass
	MCS2	17.36	18.08	Pass
	MCS3	17.49	18.23	Pass
	MCS4	16.96	17.65	Pass
	MCS5	16.98	17.65	Pass
	MCS6	17.00	17.67	Pass
	MCS7	16.98	17.63	Pass
	MCS8	16.95	17.64	Pass
	MCS9	17.00	17.64	Pass

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5725-5850MHz:

## 802.11a mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch149	Ch157	Ch165	
802.11a	6	19.09	19.47	19.95	Pass
	9	19.04	19.46	20.09	Pass
	12	19.06	19.48	19.93	Pass
	18	19.71	20.16	20.64	Pass
	24	20.06	20.53	21.00	Pass
	36	19.34	19.93	20.26	Pass
	48	19.45	19.99	20.34	Pass
	54	19.51	20.15	20.44	Pass

## 802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch149	Ch157	Ch165	
802.11n (20MHz)	MCS0	21.35	21.81	22.04	Pass
	MCS1	21.13	21.69	21.75	Pass
	MCS2	21.82	22.41	22.33	Pass
	MCS3	22.11	22.71	22.59	Pass
	MCS4	21.27	22.12	21.94	Pass
	MCS5	21.37	22.18	22.10	Pass
	MCS6	21.37	22.24	22.16	Pass
	MCS7	21.41	22.12	22.18	Pass

## 802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch151	Ch159	
802.11n (40MHz)	MCS0	18.57	19.18	Pass
	MCS1	18.52	19.13	Pass
	MCS2	18.51	19.10	Pass
	MCS3	18.76	19.49	Pass
	MCS4	18.16	18.84	Pass
	MCS5	18.16	18.97	Pass
	MCS6	18.19	18.98	Pass
	MCS7	18.29	18.92	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch149	Ch157	Ch165	
802.11ac (20MHz)	MCS0	21.04	21.89	21.47	Pass
	MCS1	21.07	21.85	21.51	Pass
	MCS2	21.71	22.53	22.17	Pass
	MCS3	21.94	22.73	22.42	Pass
	MCS4	21.18	22.27	21.82	Pass
	MCS5	21.39	22.28	22.05	Pass
	MCS6	21.28	22.36	22.02	Pass
	MCS7	21.26	22.34	22.02	Pass
	MCS8	21.31	22.30	22.15	Pass

802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		Conclusion
		Ch151	Ch159	
802.11ac (40MHz)	MCS0	18.58	19.18	Pass
	MCS1	18.50	19.09	Pass
	MCS2	18.50	19.11	Pass
	MCS3	18.71	19.47	Pass
	MCS4	18.16	18.83	Pass
	MCS5	18.18	18.89	Pass
	MCS6	18.23	18.88	Pass
	MCS7	18.20	18.90	Pass
	MCS8	18.22	18.85	Pass
	MCS9	18.19	18.90	Pass

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802.11ac VHT mode

Mode	Data Rate(Mbps)	Teat Result(dBm)	Conclusion
		Ch155	
802.11ac (80MHz)	MCS0	19.05	Pass
	MCS1	18.98	Pass
	MCS2	18.98	Pass
	MCS3	19.14	Pass
	MCS4	18.67	Pass
	MCS5	18.69	Pass
	MCS6	18.72	Pass
	MCS7	18.63	Pass
	MCS8	18.66	Pass
	MCS9	18.69	Pass

Conclusion: PASS

### 6.3. Peak Power Spectral Density

<b>Specifications:</b>	FCC Part 15.407 (a)
<b>DUT Serial Number:</b>	865171050693608
<b>Test conditions:</b>	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit Level Construction:

##### According to Part 15.407(a)

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

#### Measurement Uncertainty:

Measurement Uncertainty	±0.82dBm/KHz
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#### Test Procedure:

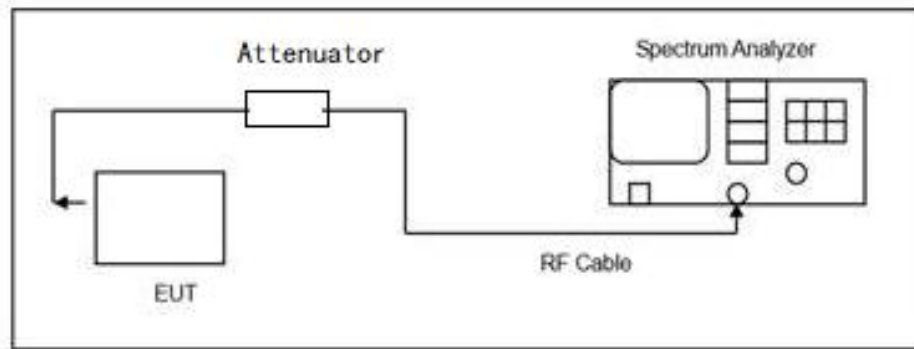
Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3×RBW
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	≥2×SPAN/RBW
Detector	RMS

Note: --

#### Test block diagram:

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**Test Results:**

**5150-5250MHz:**

Mode	Power Spectral Density			Conclusion
	Ch36	Ch40	Ch48	
802.11a	5.94	6.21	5.39	Pass
802.11n	5.55	5.83	5.75	Pass
802.11ac	5.82	6.29	6.01	Pass
Mode	Power Spectral Density		Conclusion	
	Ch38	Ch46		
802.11n (40M)	2.21	1.97	Pass	
802.11ac (40MHz)	2.07	1.95	Pass	
Mode	Power Spectral Density		Conclusion	
	Ch42			
802.11ac (80MHz)	-0.39		Pass	

**5250-5350MHz:**

Mode	Power Spectral Density			Conclusion
	Ch52	Ch60	Ch64	
802.11a	5.24	5.27	5.72	Pass
802.11n	5.16	5.48	5.90	Pass
802.11ac	5.08	5.48	5.95	Pass
Mode	Power Spectral Density		Conclusion	
	Ch54	Ch62		
802.11n (40M)	1.36	2.50	Pass	
802.11ac (40MHz)	1.81	2.22	Pass	
Mode	Power Spectral Density		Conclusion	
	Ch58			
802.11ac (80MHz)	-0.75		Pass	

**5470-5725MHz:**

Mode	Power Spectral Density			Conclusion
	Ch100	Ch116	Ch140	
802.11a	2.96	3.87	4.84	Pass
802.11n	3.28	4.04	4.90	Pass
802.11ac	3.39	4.54	5.09	Pass
Mode	Power Spectral Density			Conclusion
	Ch102	Ch110	Ch134	
802.11n (40M)	-0.47	-0.39	1.36	Pass
802.11ac (40MHz)	-0.12	-0.16	1.42	Pass
Mode	Power Spectral Density		Conclusion	
	Ch106	Ch122		
802.11ac (80MHz)	-2.91	-1.35	Pass	

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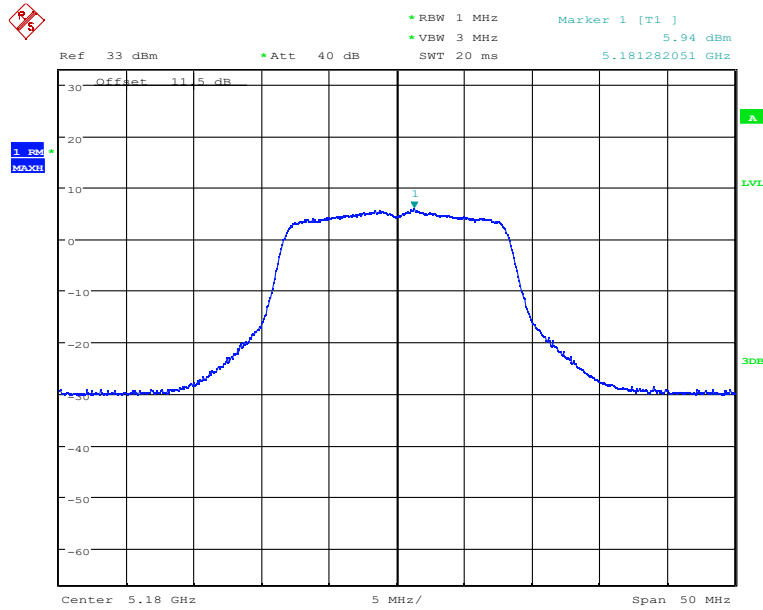
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5725-5850MHz:

Mode	Power Spectral Density			Conclusion
	Ch149	Ch157	Ch165	
802.11a	3.40	3.73	2.87	Pass
802.11n	3.09	3.52	3.51	Pass
802.11ac	3.77	3.90	3.21	Pass
Mode	Power Spectral Density		Conclusion	
	Ch151	Ch159		
802.11n (40M)	-0.43	-0.22	Pass	
802.11ac (40MHz)	-0.75	0.06	Pass	
Mode	Power Spectral Density		Conclusion	
	Ch155			
802.11ac (80MHz)	-2.72		Pass	

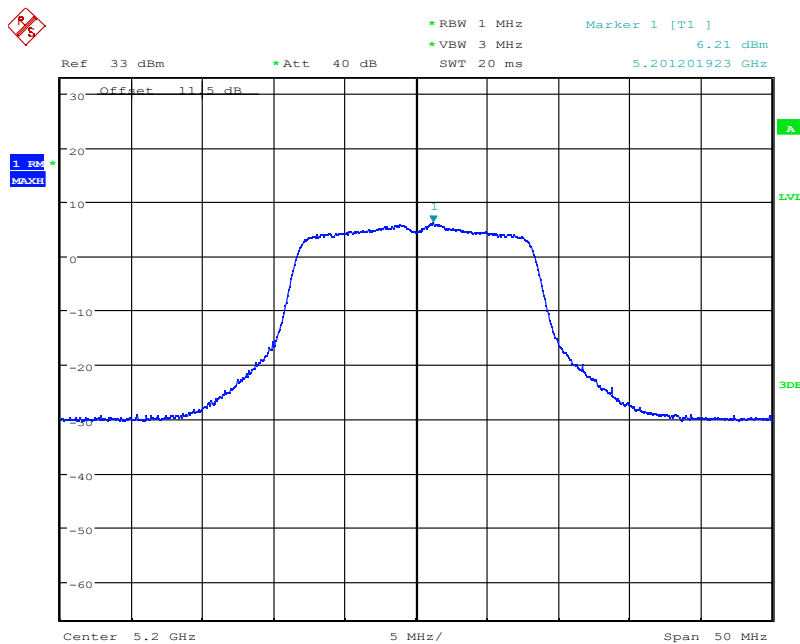
**Conclusion: PASS**

Test figure as below:



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Fig.1 Power spectral density: CH36,11a



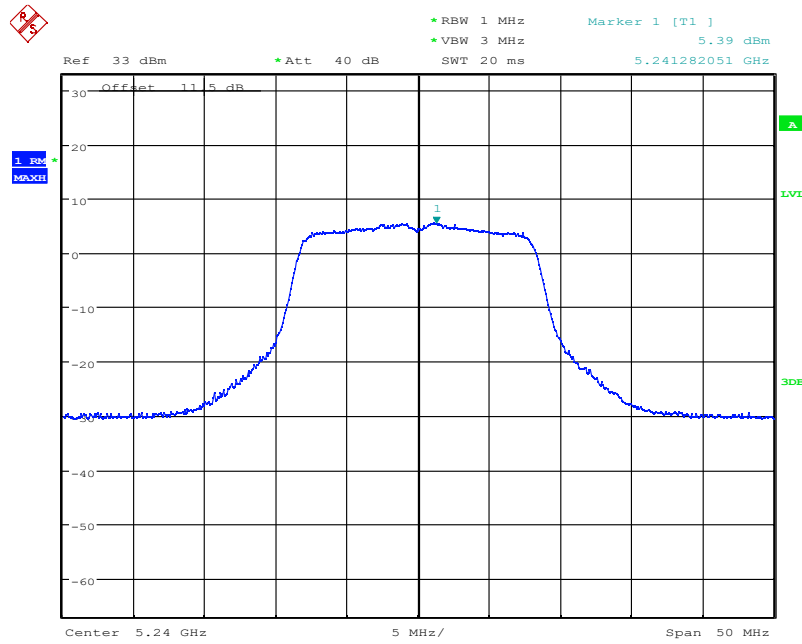
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Fig.2 Power spectral density: CH40,11a

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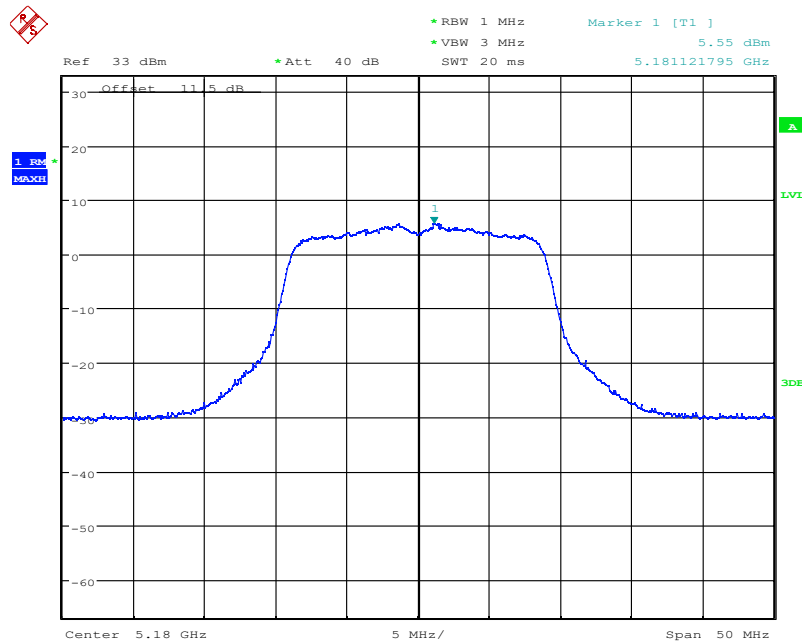
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Fig.3 Power spectral density: CH48,11a

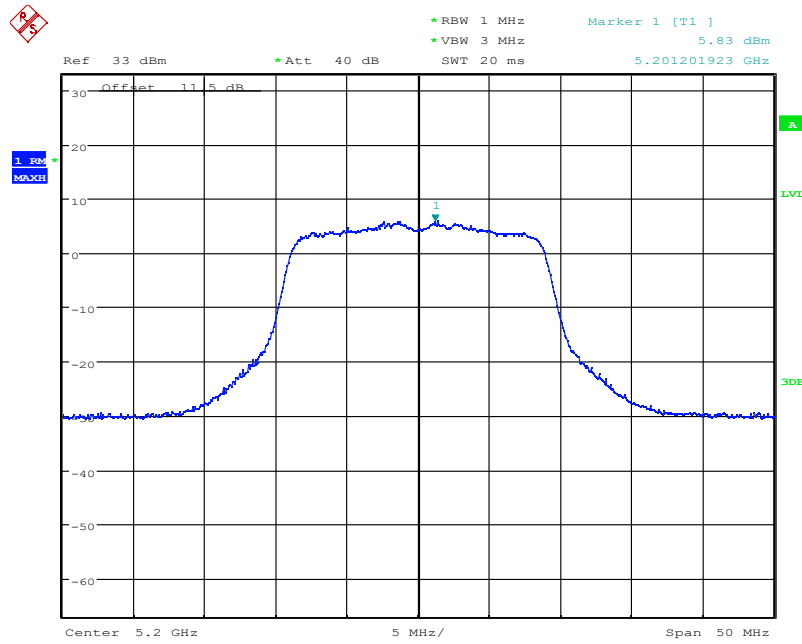


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Fig.4 Power spectral density: CH36,11n

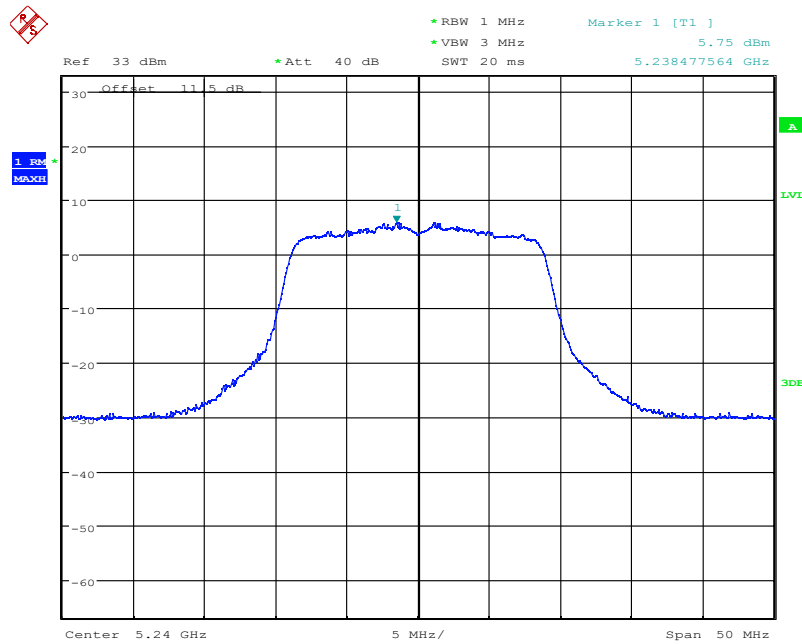
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Fig.5 Power spectral density: CH40,11n

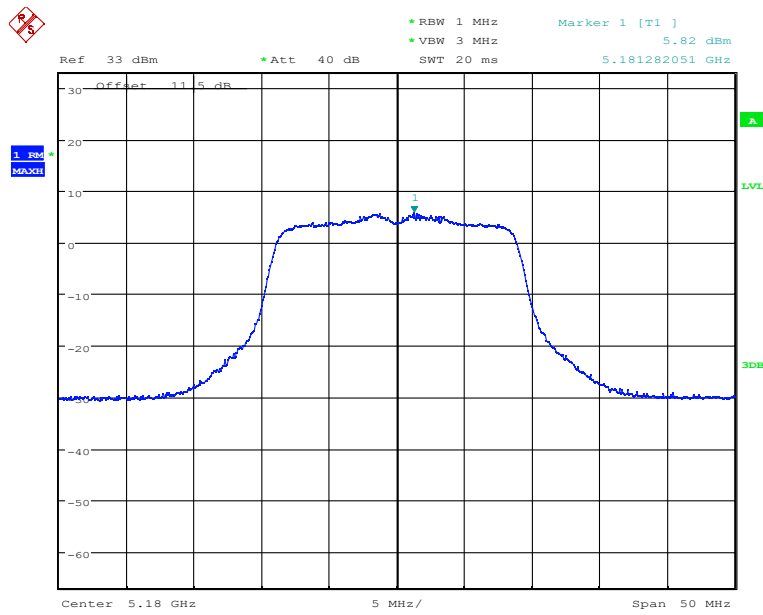


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Fig.6 Power spectral density: CH48,11n

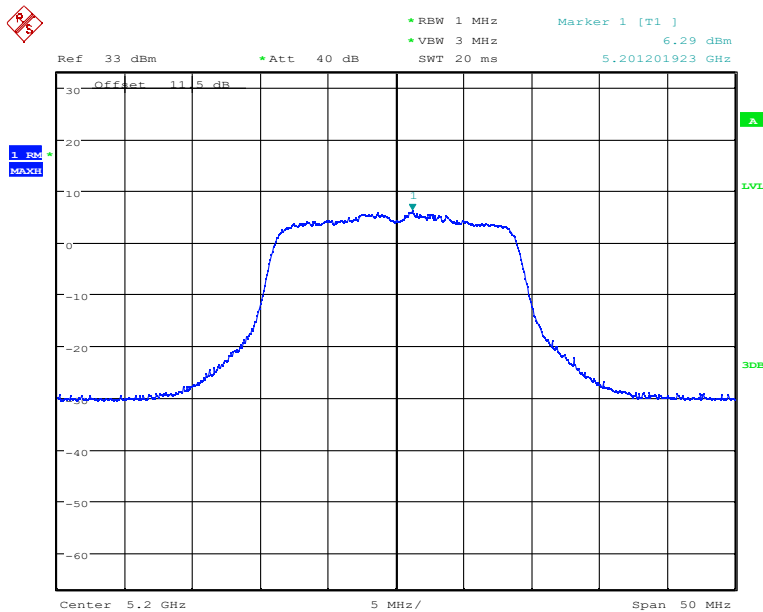
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Fig.7 Power spectral density: CH36,11ac

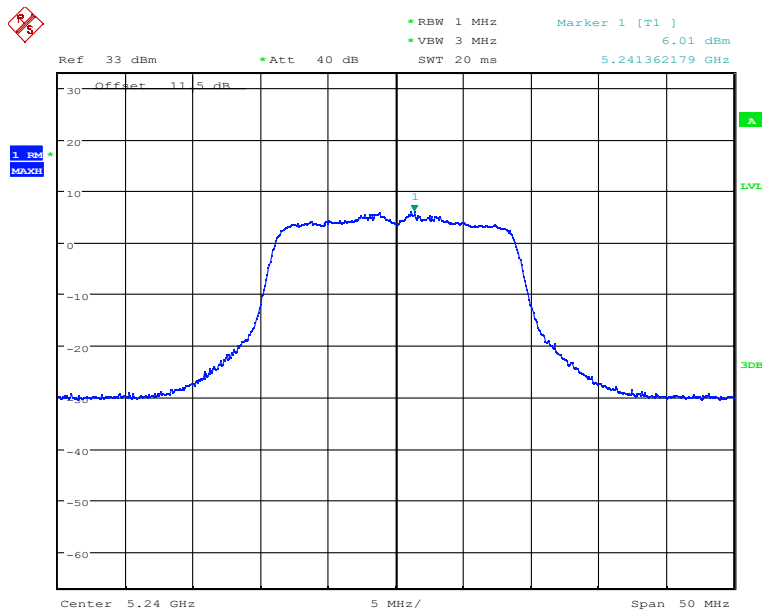


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Fig.8 Power spectral density: CH40,11ac

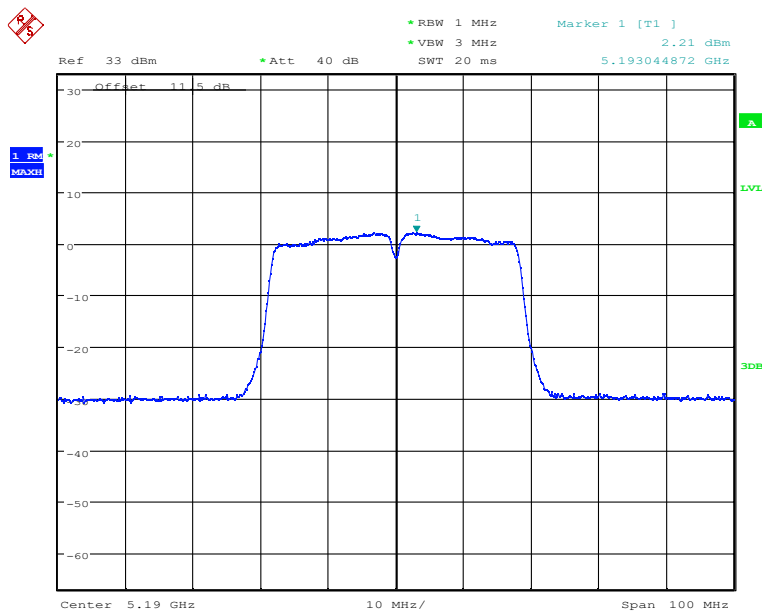
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Fig.9 Power spectral density: CH48,11ac

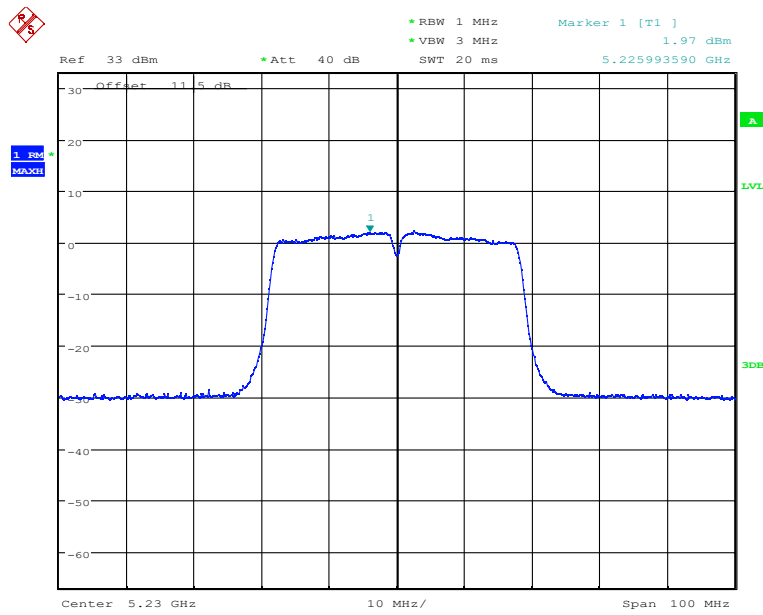


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Fig.10 Power spectral density: CH38,11n (40MHz)

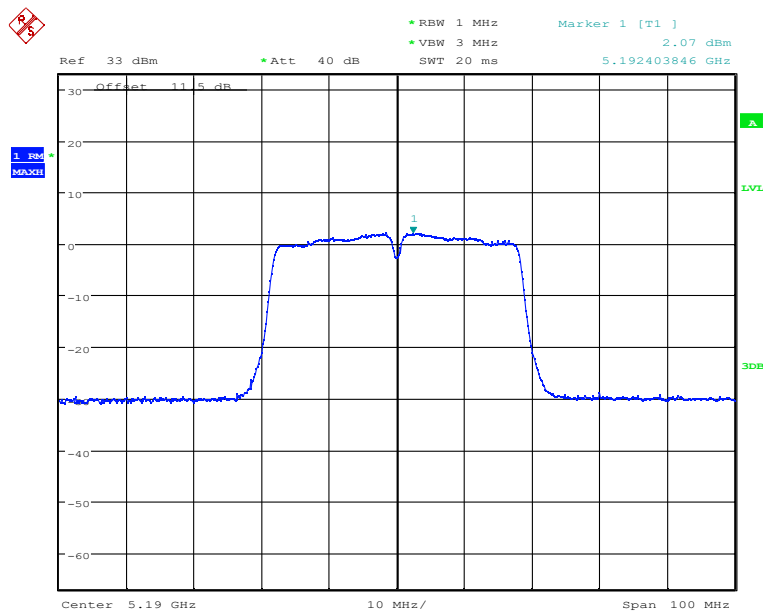
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Fig.11 Power spectral density: CH46,11n (40MHz)

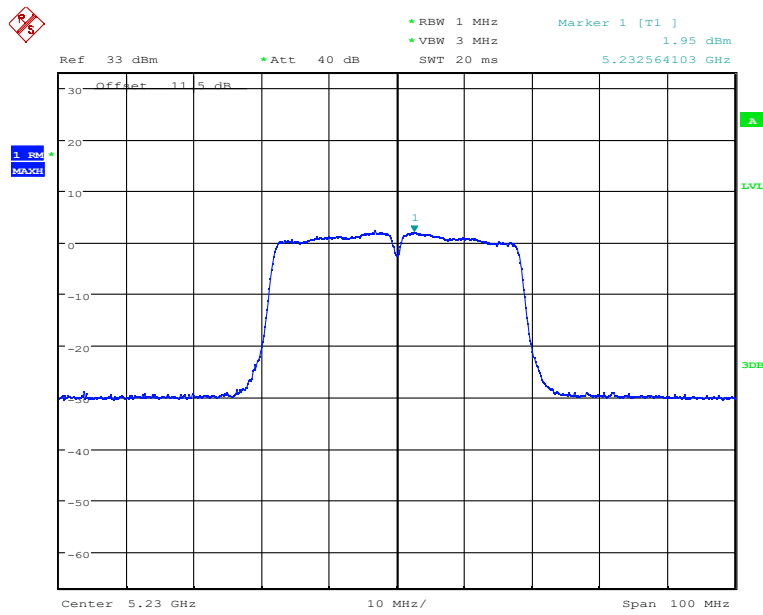


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Fig.12 Power spectral density: CH38,11ac (40MHz)

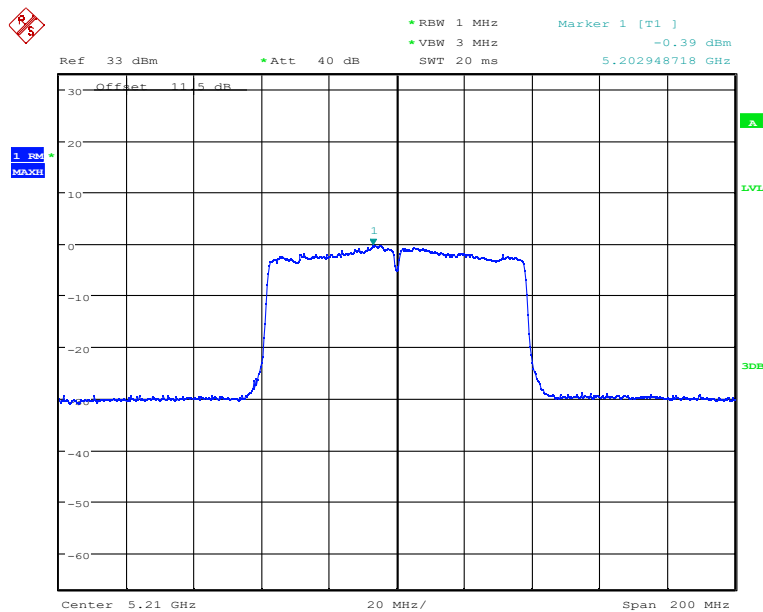
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Fig.13 Power spectral density: CH46,11ac (40MHz)

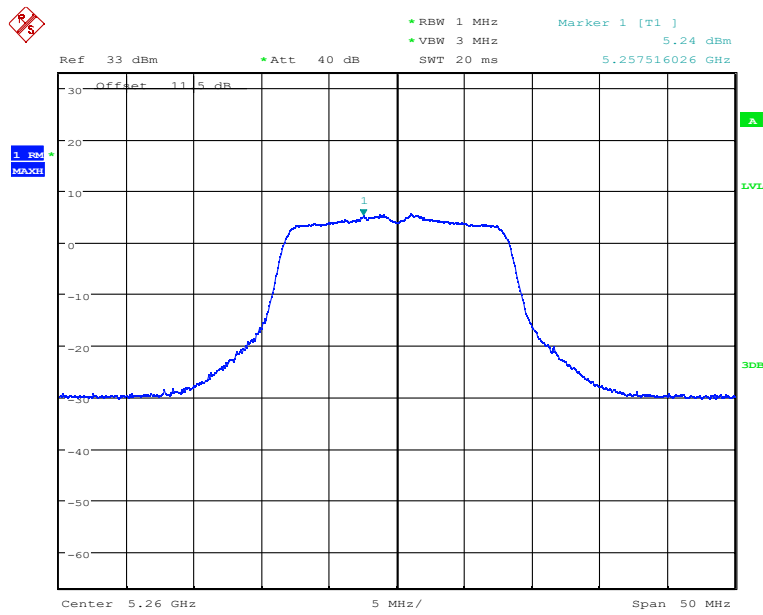


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Fig.14 Power spectral density: CH42,11ac (80MHz)

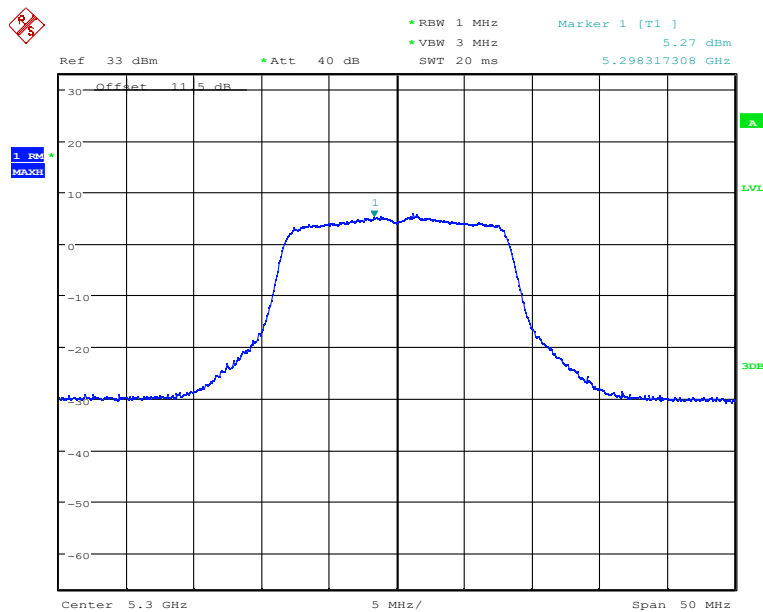
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Fig.15 Power spectral density: CH52,11a

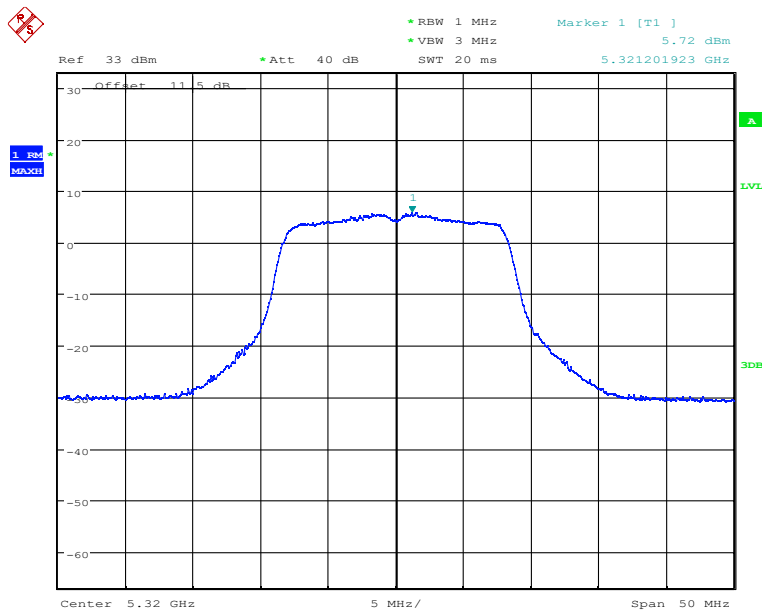


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Fig.16 Power spectral density: CH60,11a

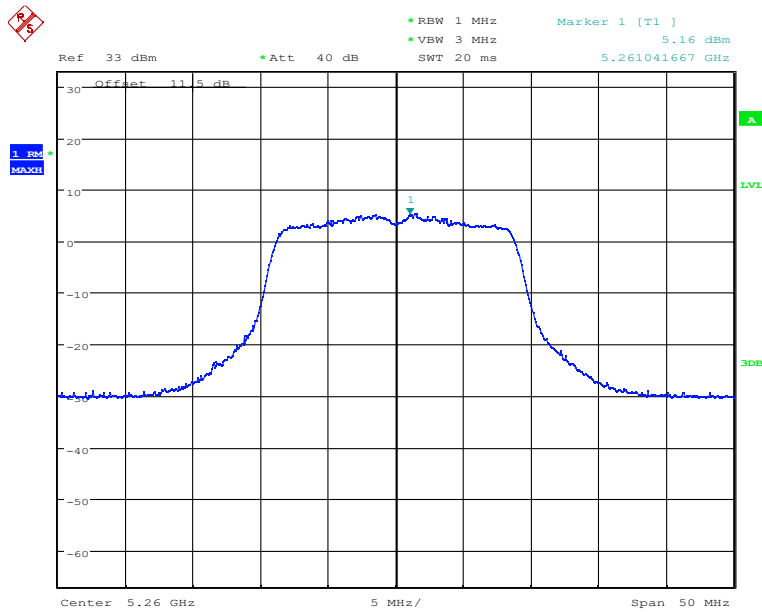
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Fig.17 Power spectral density: CH64,11a



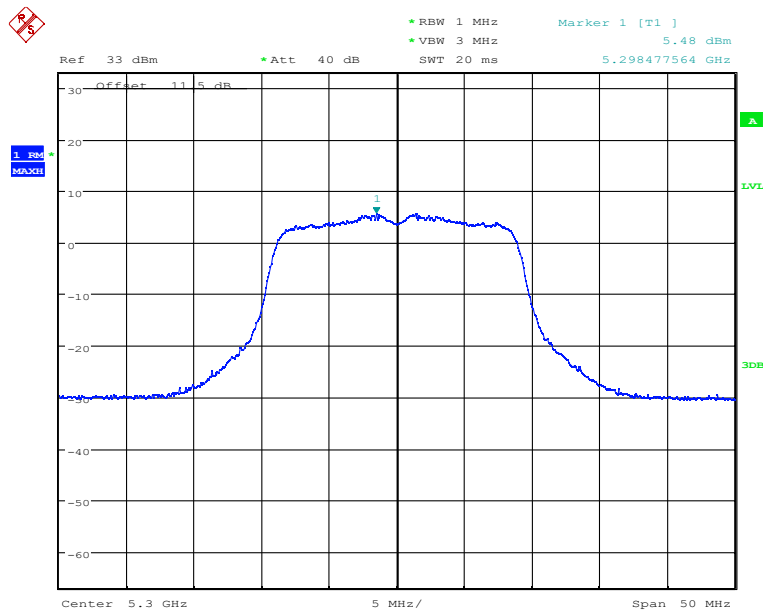
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Fig.18 Power spectral density: CH52,11n

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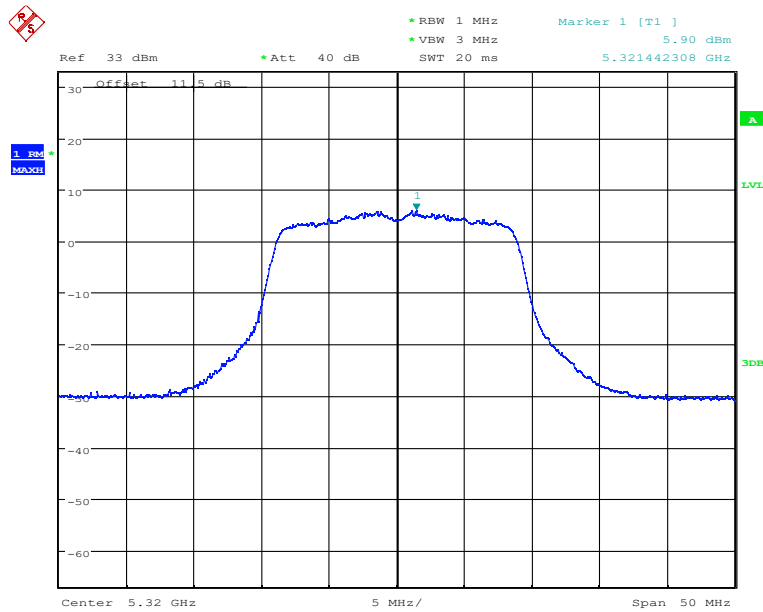
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Fig.19 Power spectral density: CH60,11n

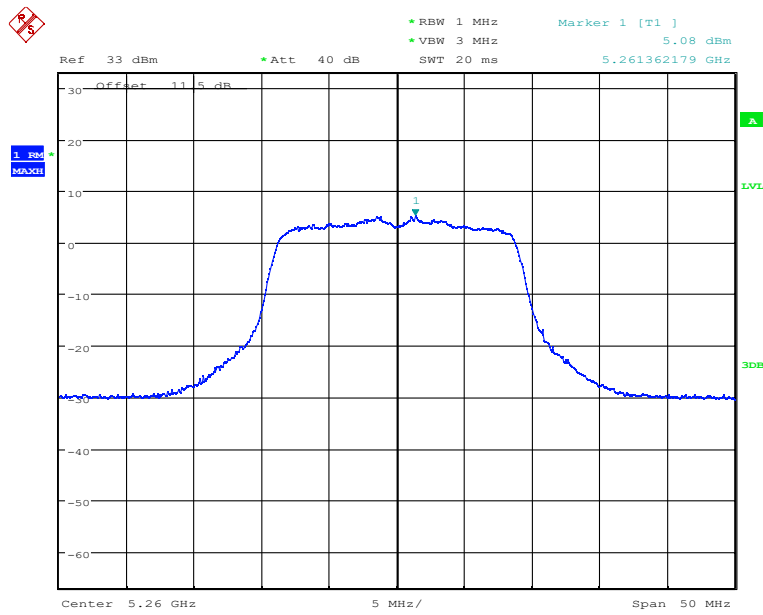


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Fig.20 Power spectral density: CH64,11n

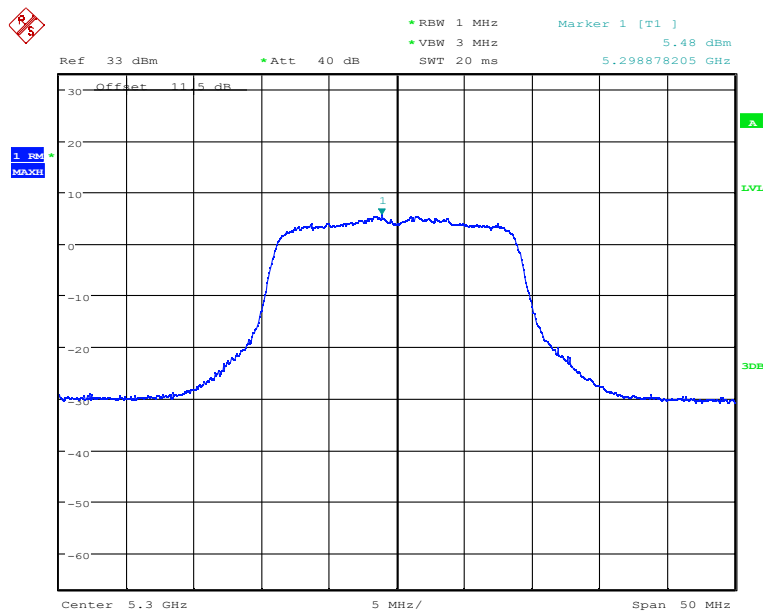
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Fig.21 Power spectral density: CH52,11ac

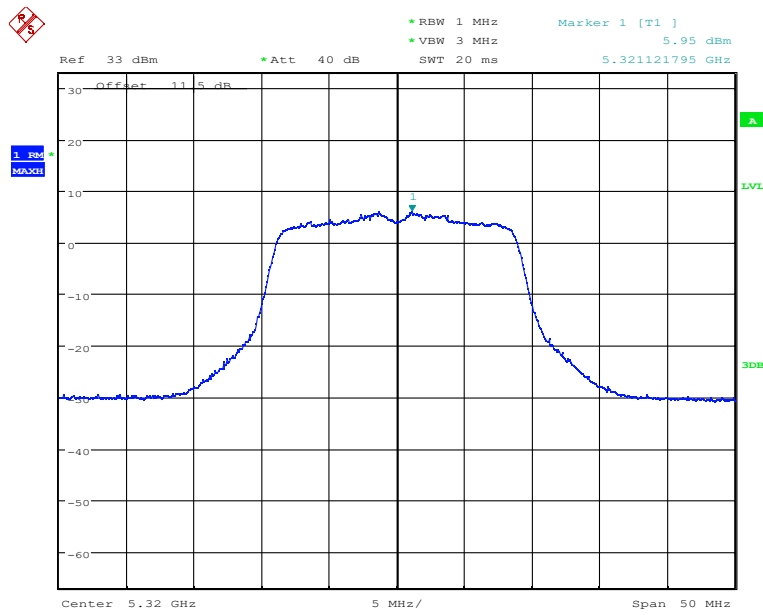


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Fig.22 Power spectral density: CH60,11ac

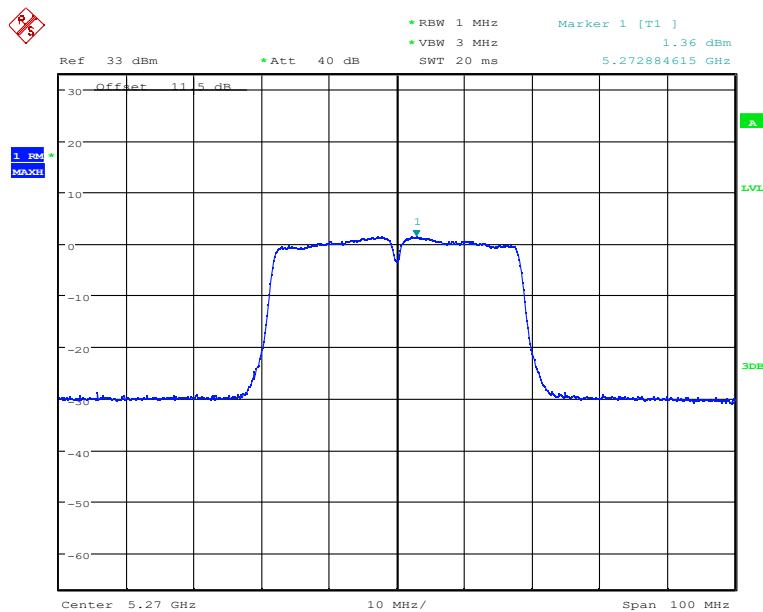
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Fig.23 Power spectral density: CH64,11ac

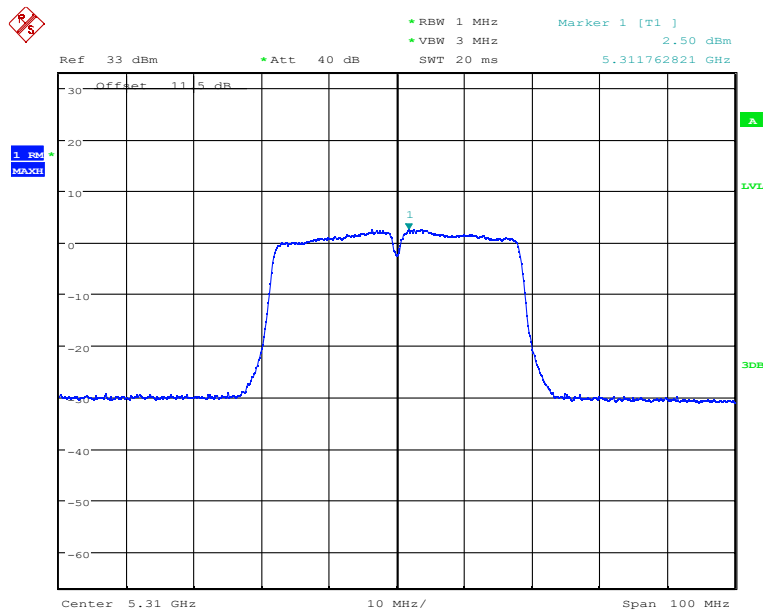


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Fig.24 Power spectral density: CH54,11n (40MHz)

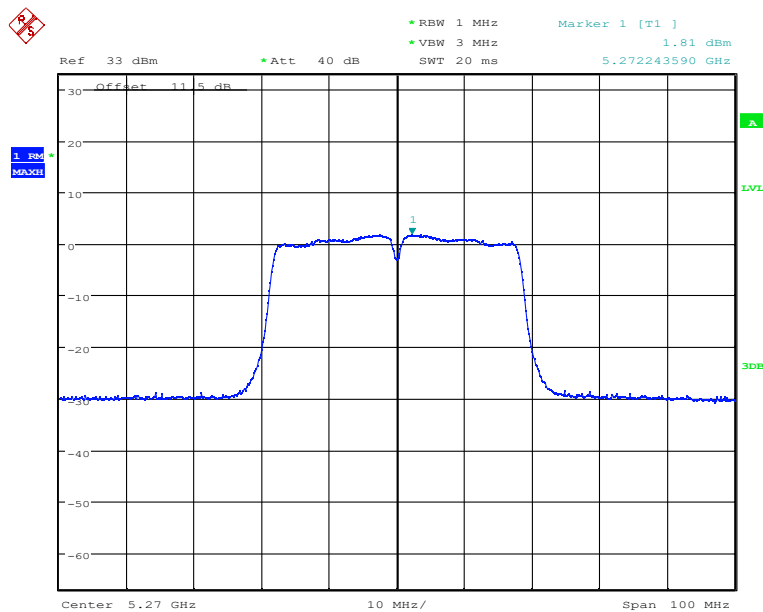
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Fig.25 Power spectral density: CH62,11n (40MHz)

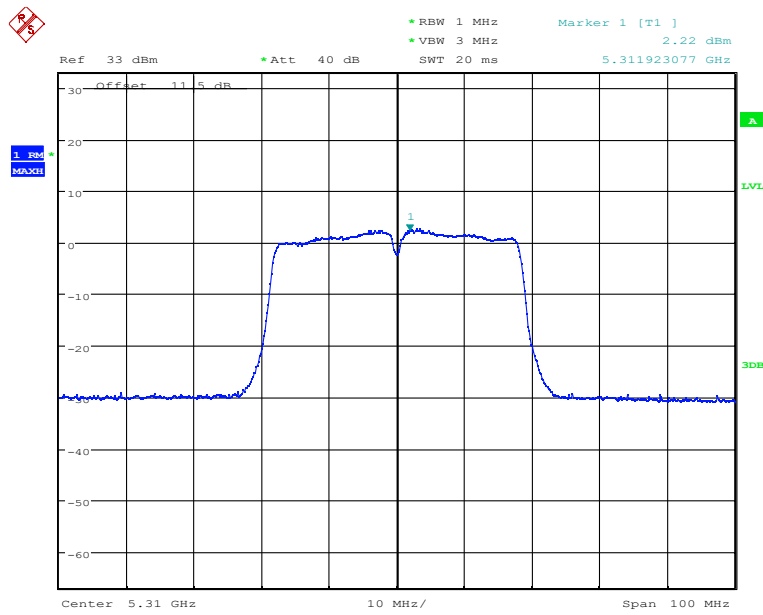


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Fig.26 Power spectral density: CH54,11ac (40MHz)

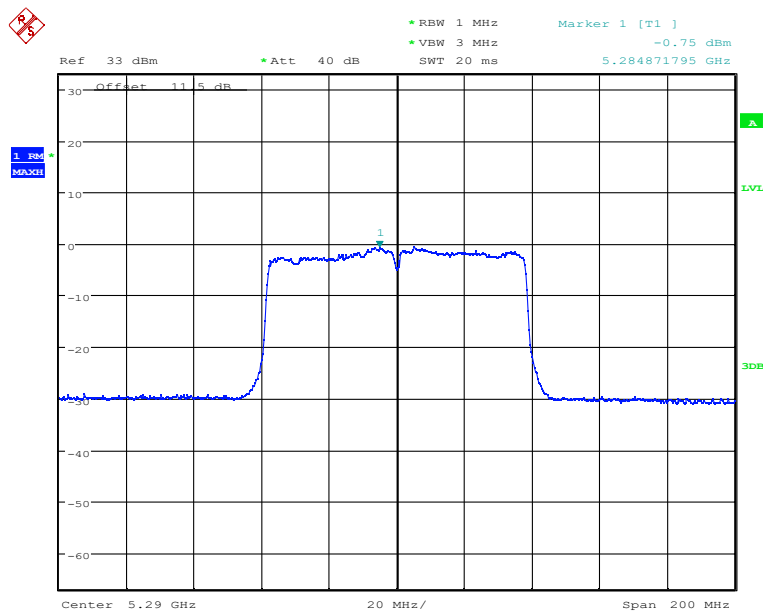
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Fig.27 Power spectral density: CH62,11ac (40MHz)

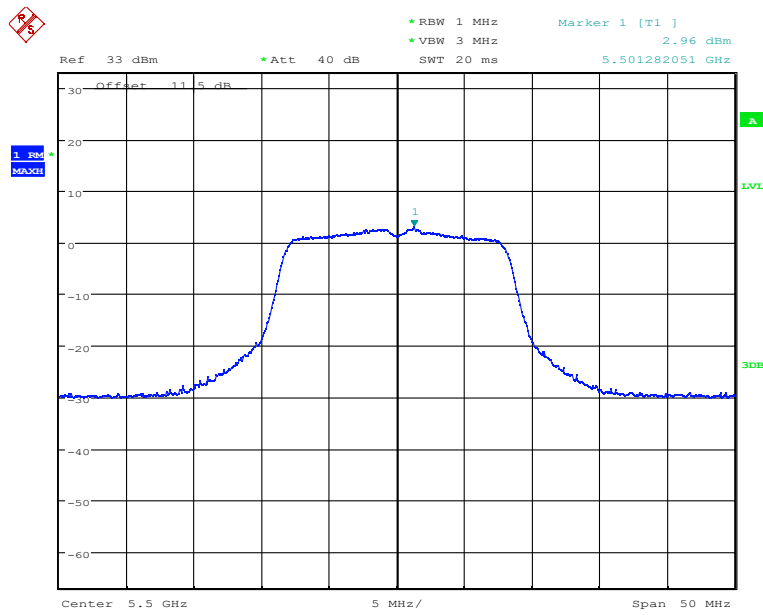


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Fig.28 Power spectral density: Ch58,11ac (80MHz)

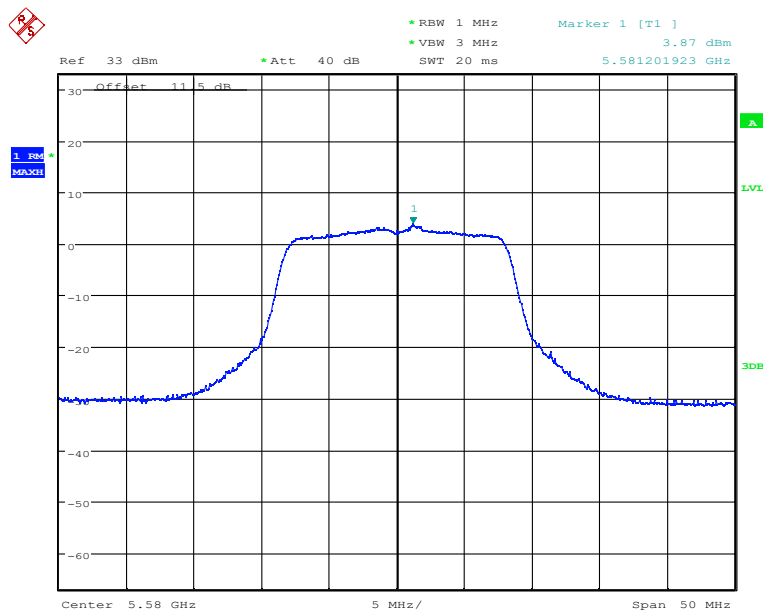
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Fig.29 Power spectral density: CH100,11a

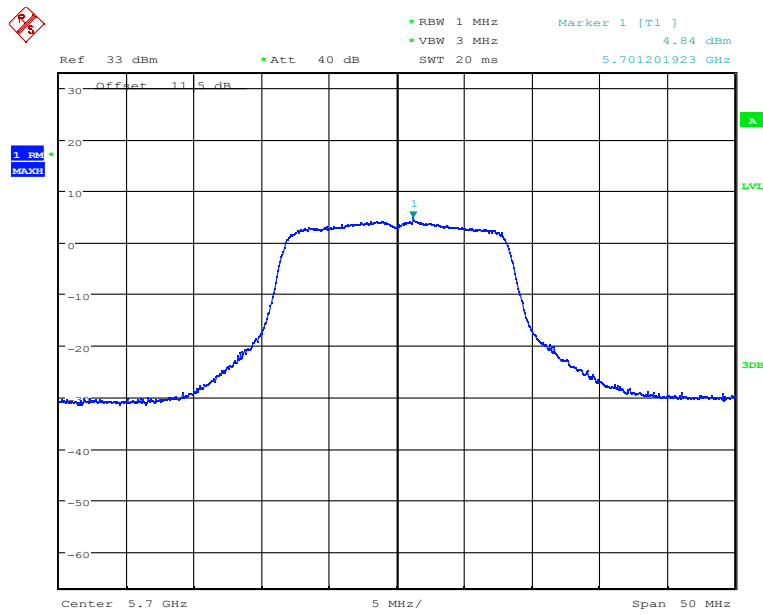


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Fig.30 Power spectral density: CH116,11a

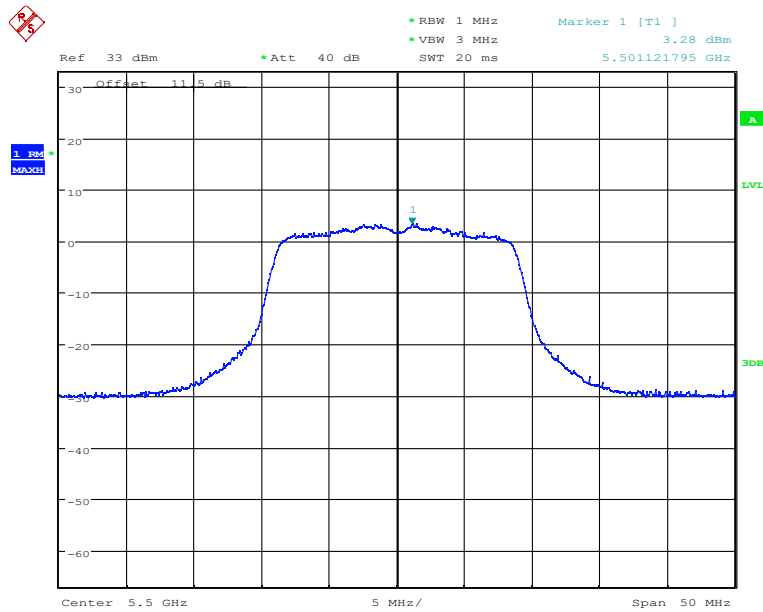
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Fig.31 Power spectral density: CH140,11a

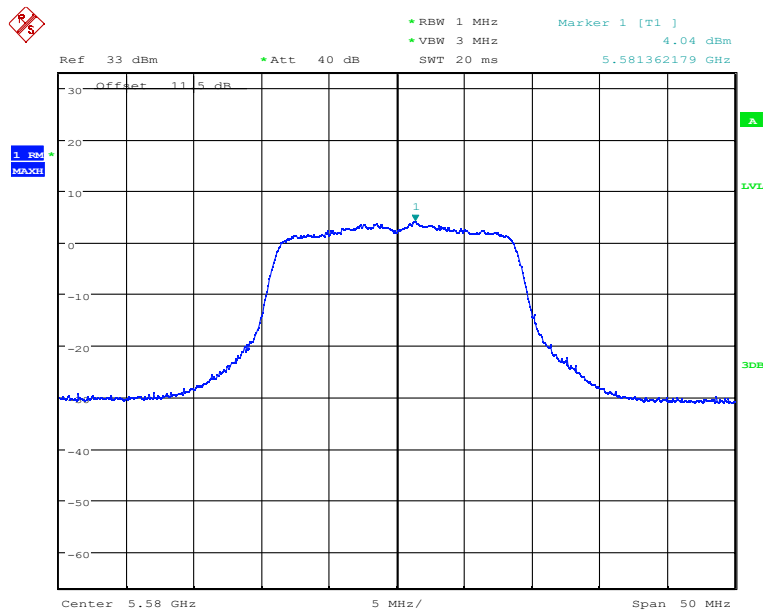


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Fig.32 Power spectral density: CH100,11n

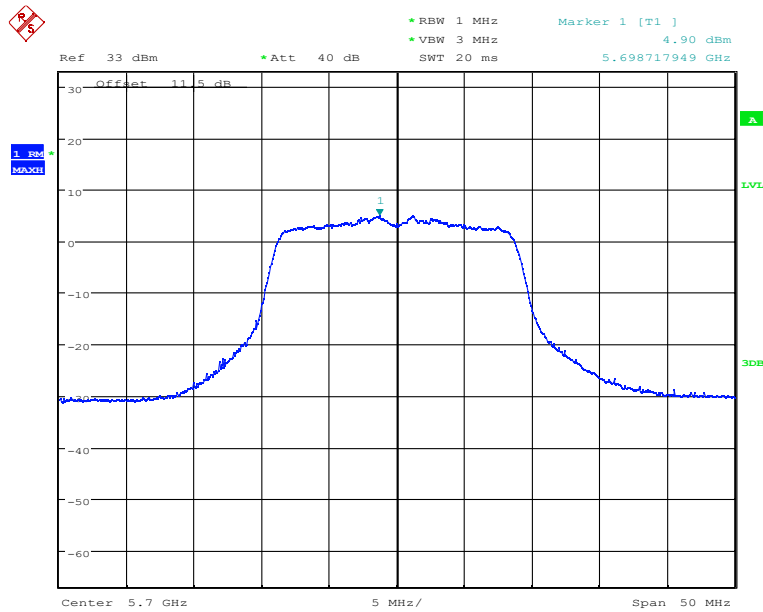
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Fig.33 Power spectral density: CH116,11n



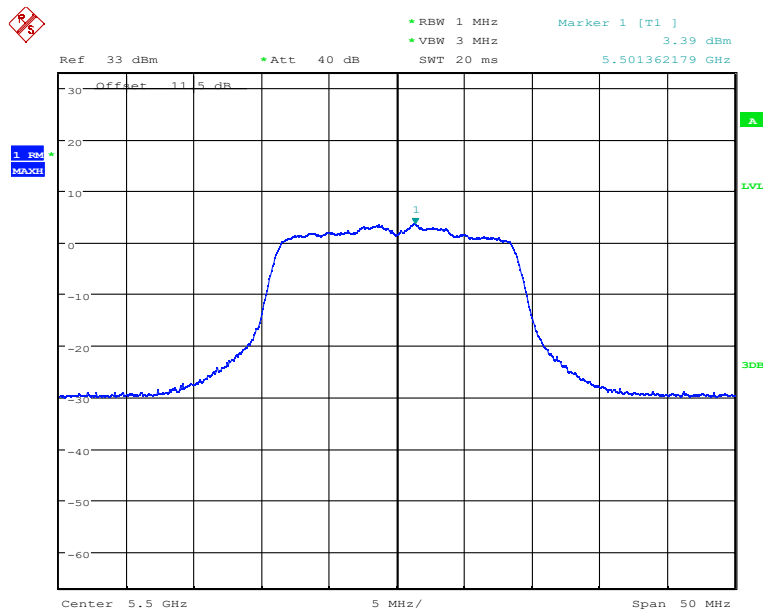
Date: 15.NOV.2021 11:27:55

Fig.34 Power spectral density: CH140,11n

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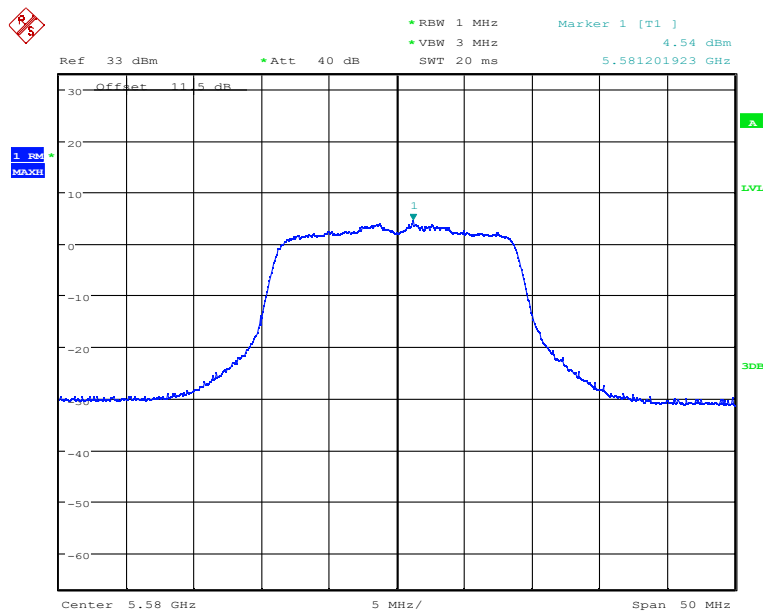
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Fig.35 Power spectral density: CH100,11ac

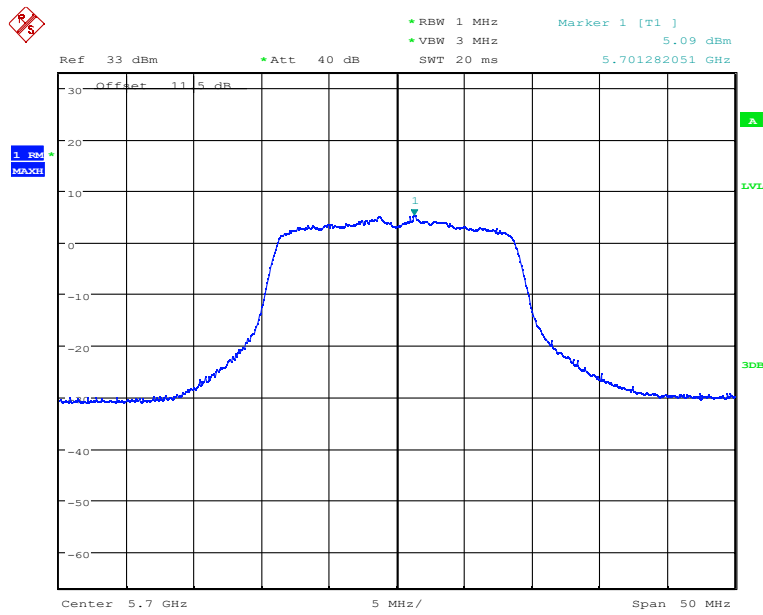


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Fig.36 Power spectral density: CH116,11ac

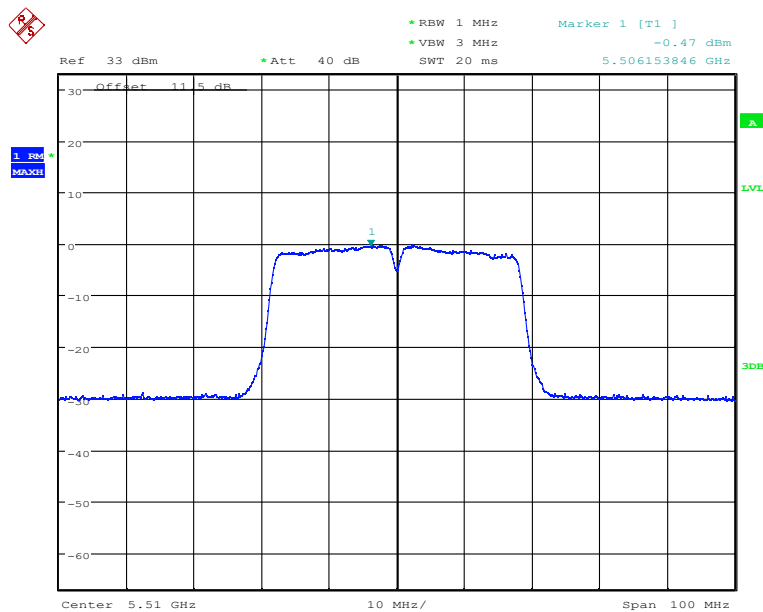
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Fig.37 Power spectral density: CH140,11ac

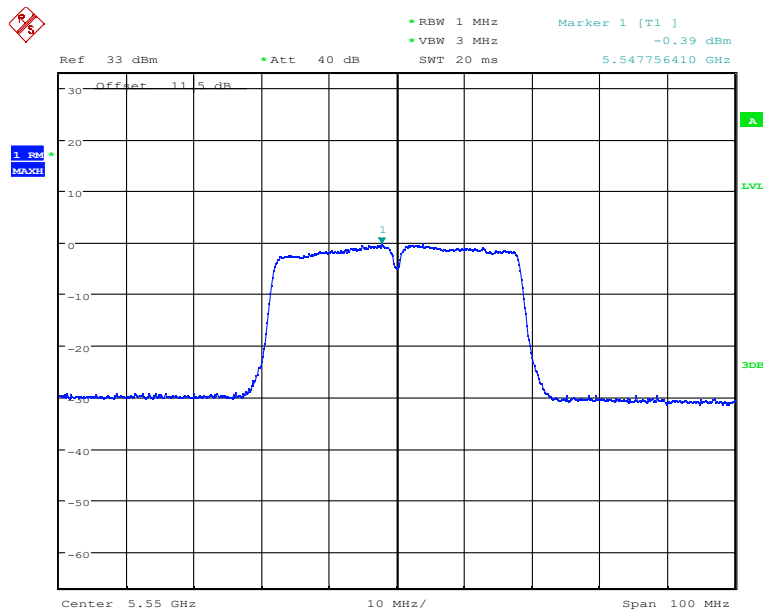


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Fig.38 Power spectral density: CH102,11n (40MHz)

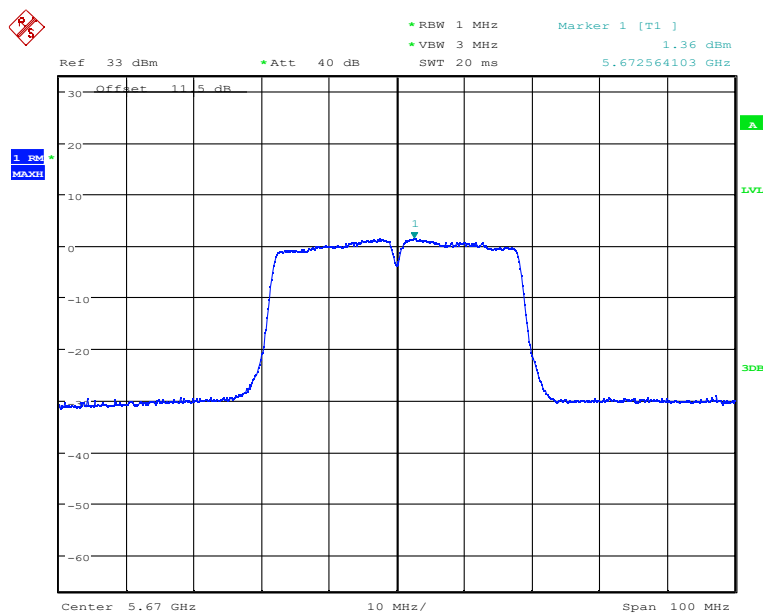
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Fig.39 Power spectral density: CH110,11n (40MHz)

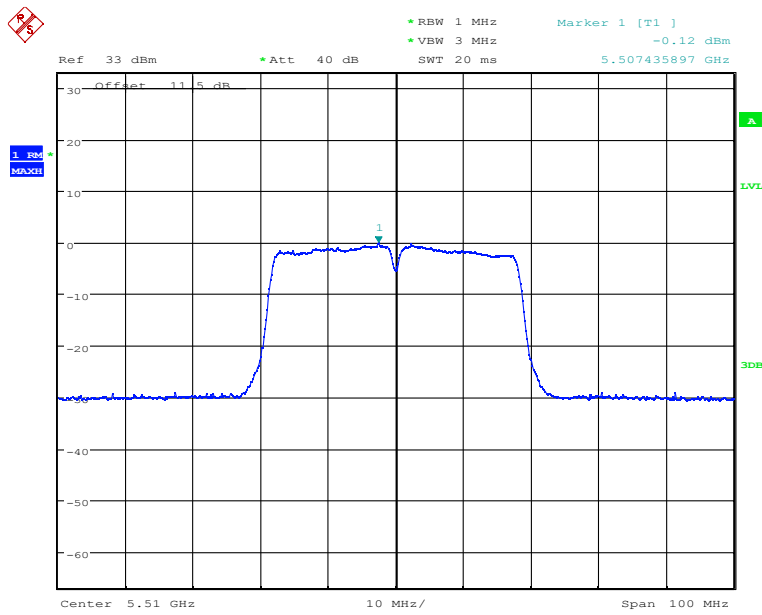


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Fig.40 Power spectral density: CH134,11n (40MHz)

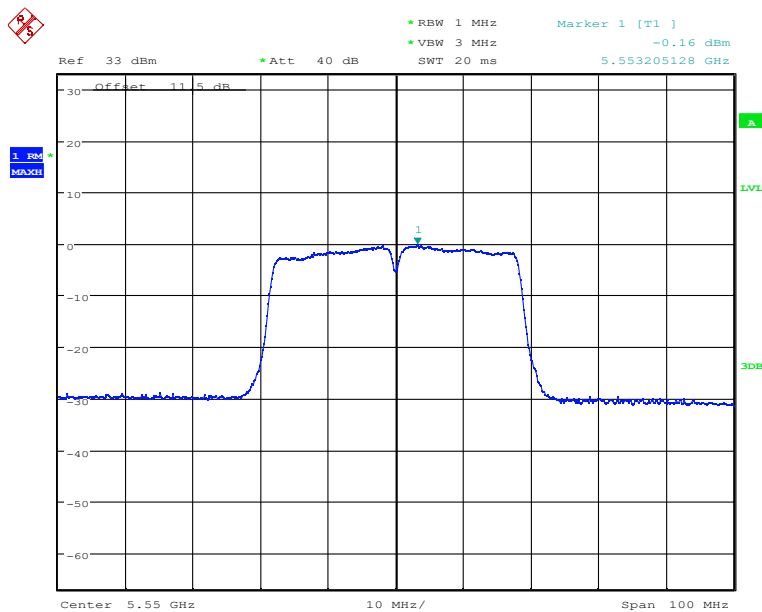
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Fig.41 Power spectral density: CH102,11ac (40MHz)

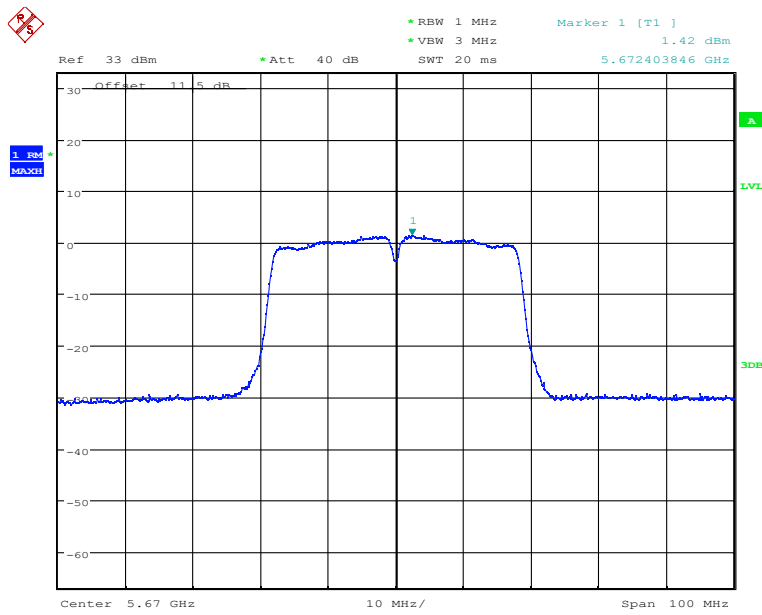


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Fig.42 Power spectral density: CH110,11ac (40MHz)

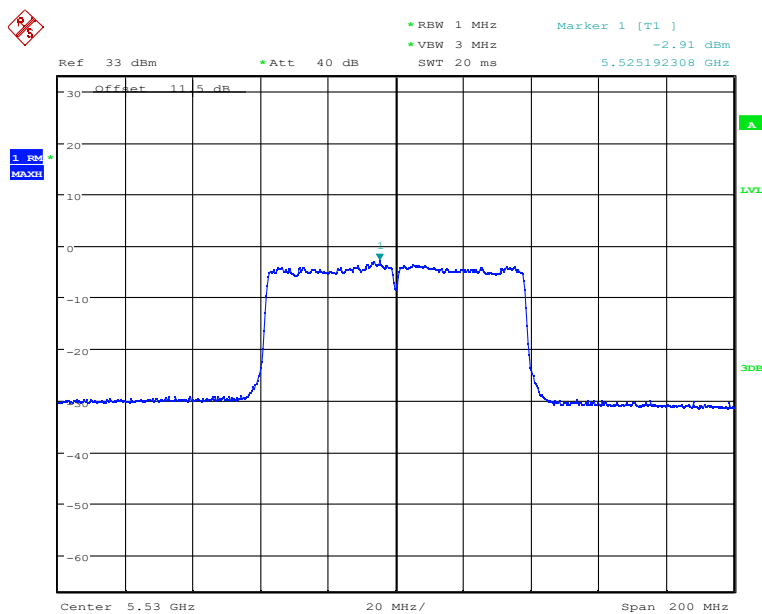
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Fig.43 Power spectral density: CH134,11ac (40MHz)

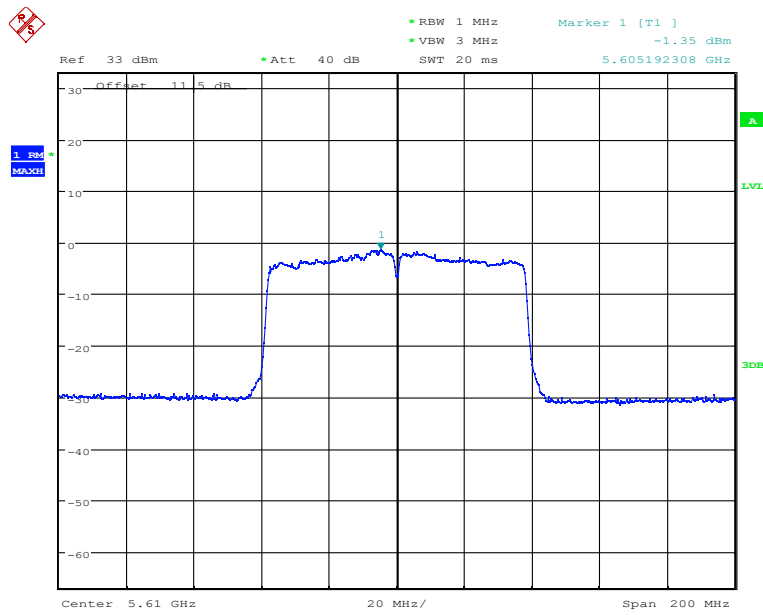


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Fig.44 Power spectral density: CH106,11ac (80MHz)

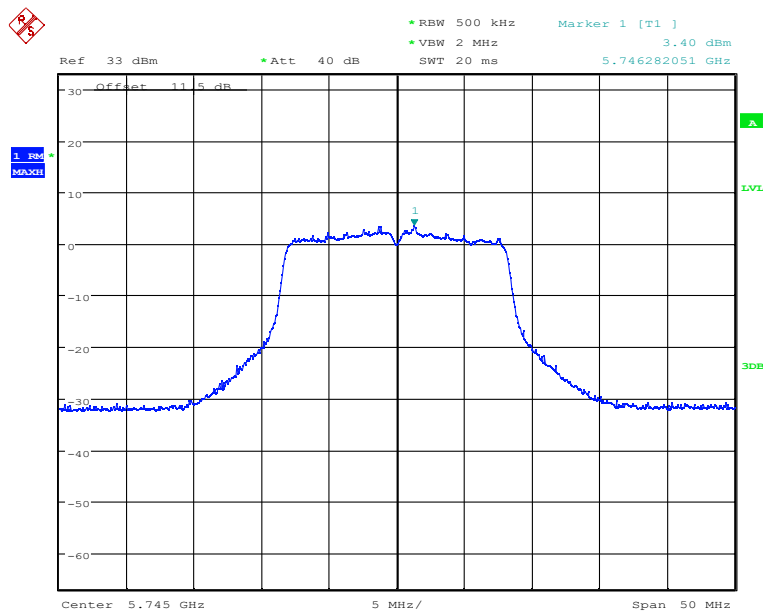
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Fig.45 Power spectral density: CH122,11ac (80MHz)

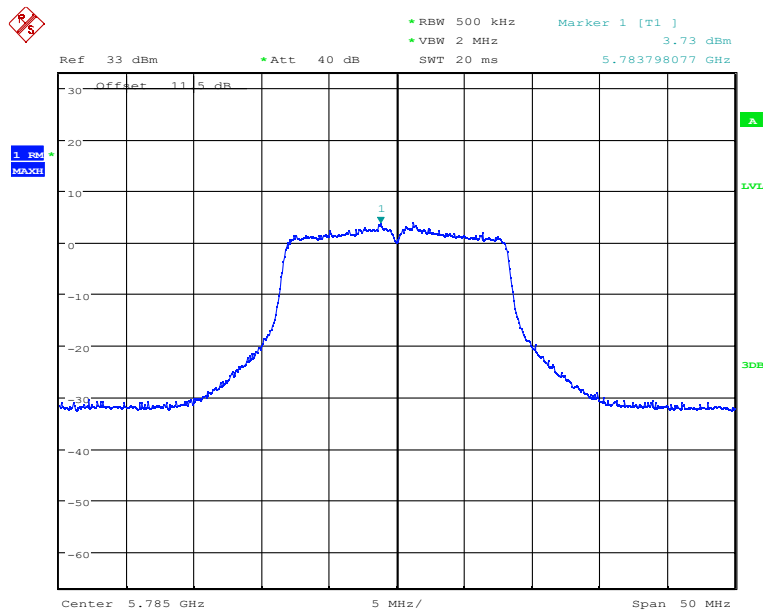


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Fig.46 Power spectral density: CH149,11a

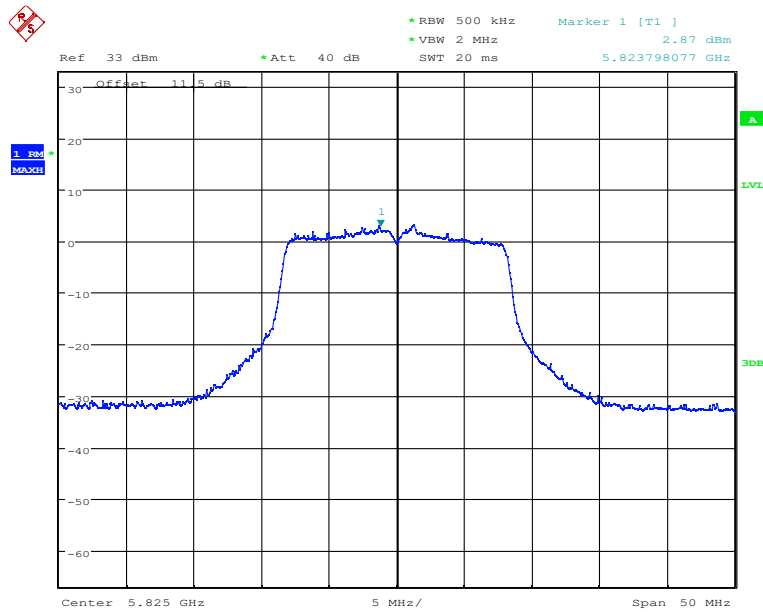
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Fig.47 Power spectral density: CH157,11a

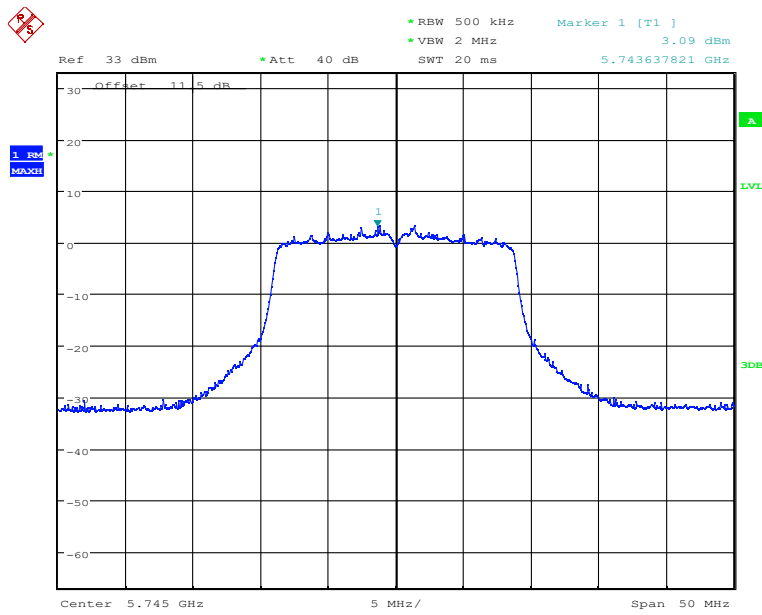


Date: 15.NOV.2021 13:02:43

Fig.48 Power spectral density: CH165,11a

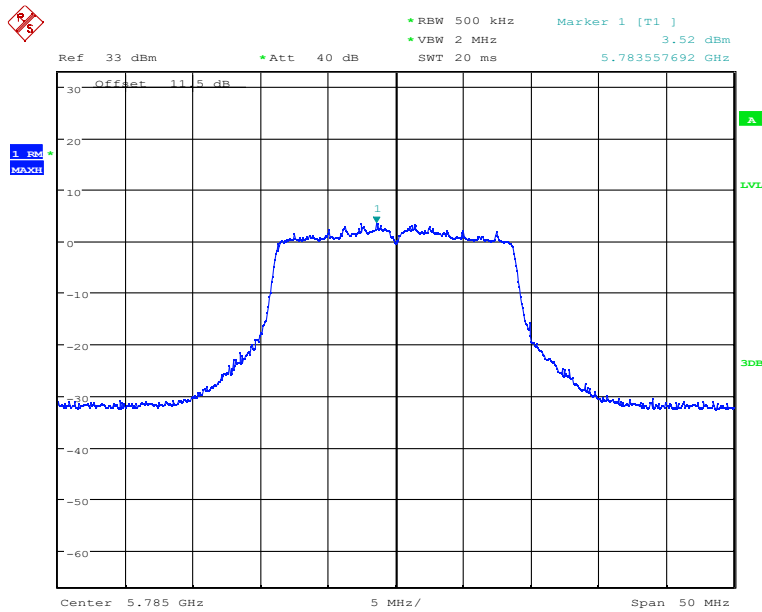
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Fig.49 Power spectral density: CH149,11n



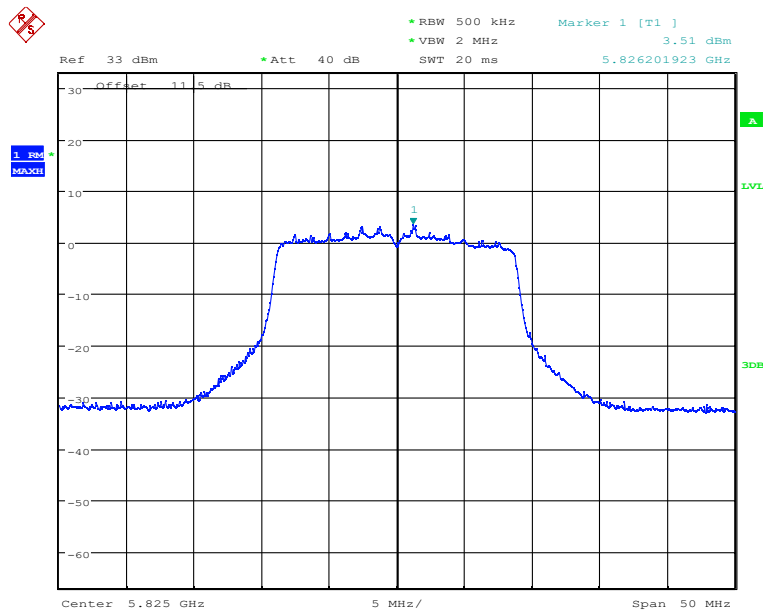
Date: 15.NOV.2021 13:04:25

Fig.50 Power spectral density: CH157,11n

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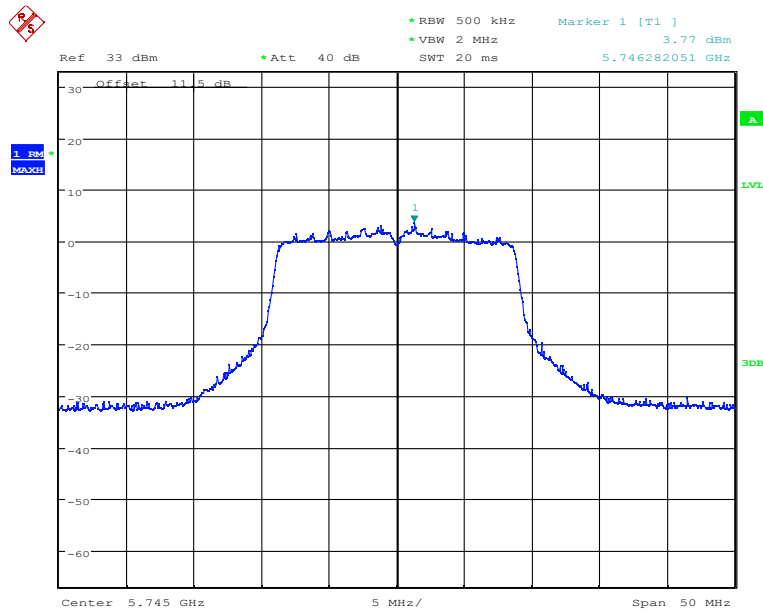
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Fig.51 Power spectral density: CH165,11n

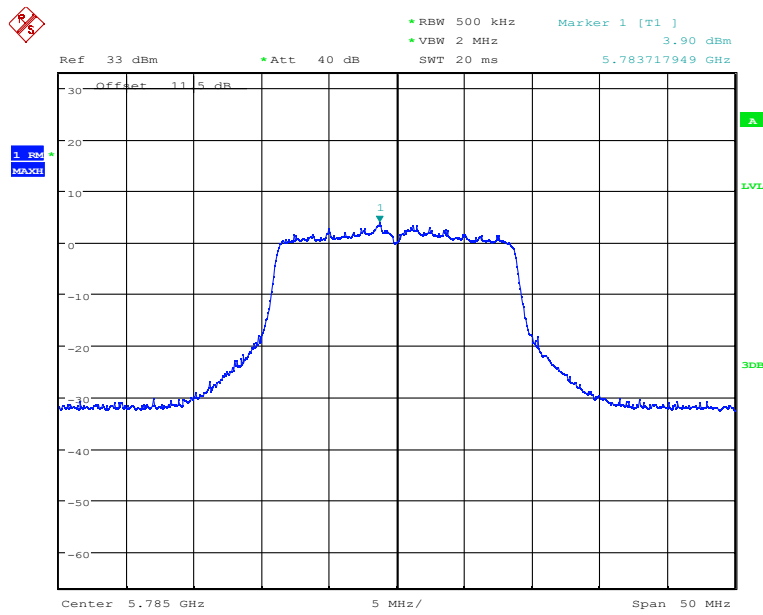


Date: 15.NOV.2021 13:03:45

Fig.52 Power spectral density: CH149,11ac

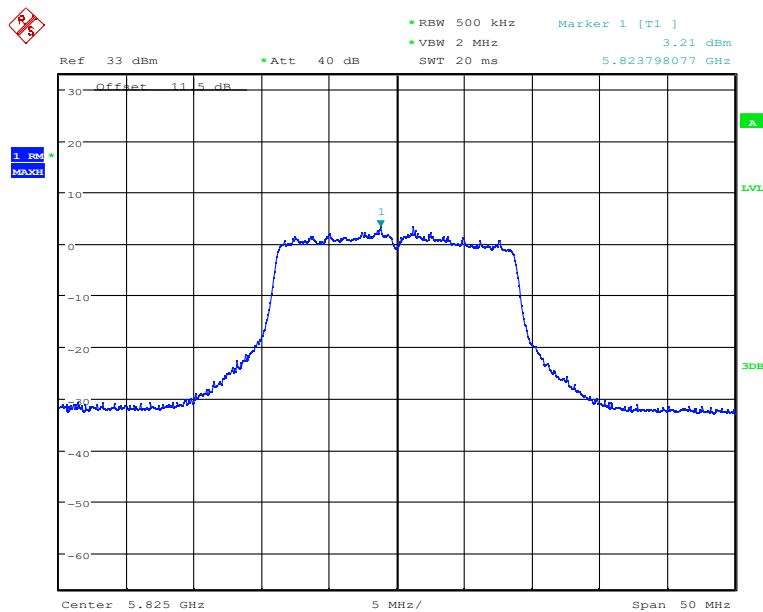
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Fig.53 Power spectral density: CH157,11ac

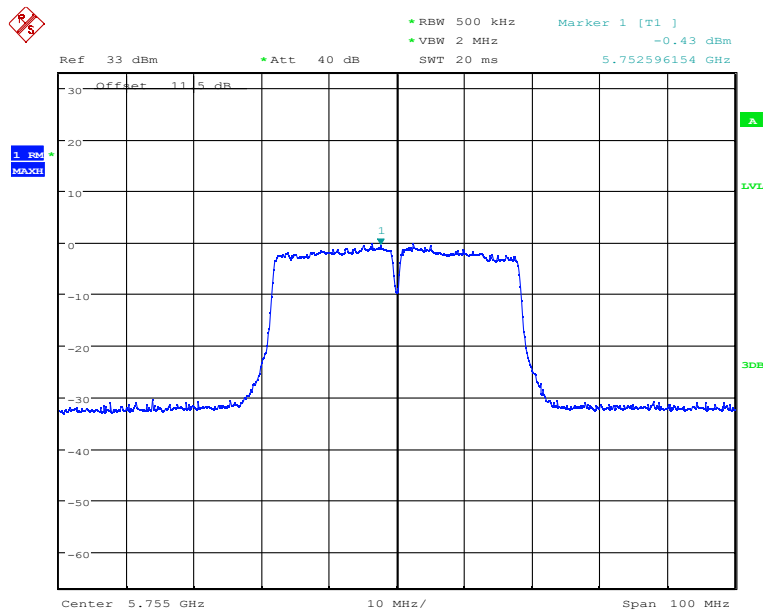


Date: 15.NOV.2021 13:03:08

Fig.54 Power spectral density: CH165,11ac

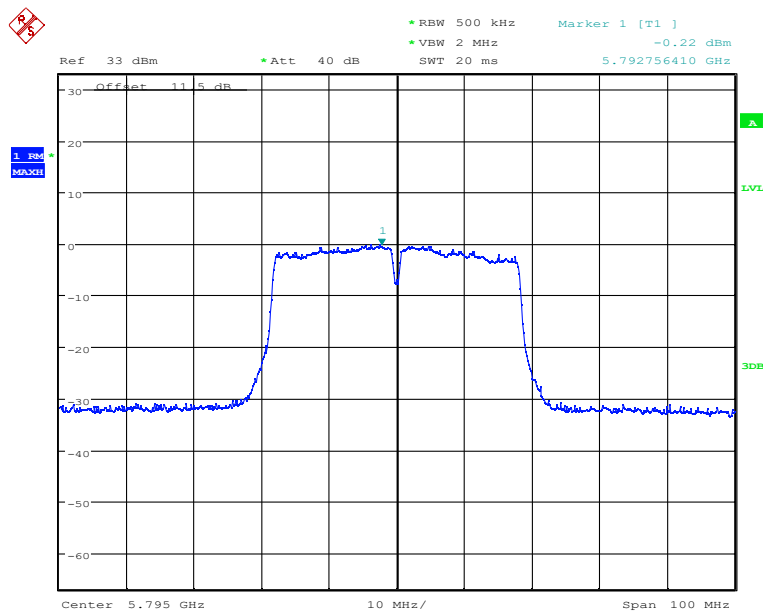
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Fig.55 Power spectral density: CH151,11n (40MHz)

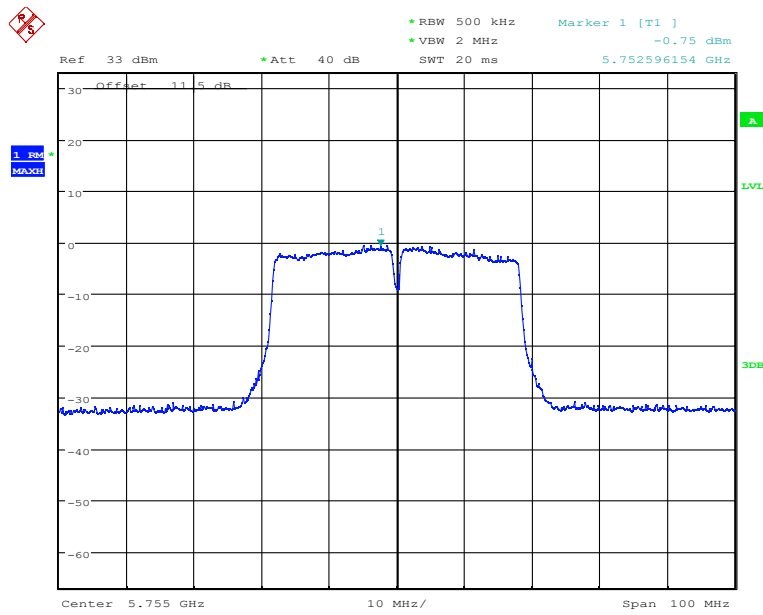


Date: 15.NOV.2021 13:05:43

Fig.56 Power spectral density: CH159,11n (40MHz)

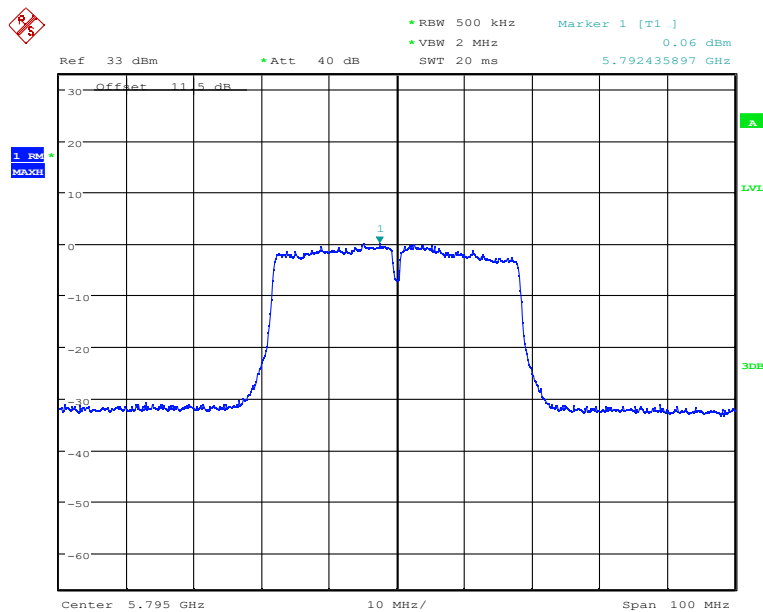
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Date: 15.NOV.2021 13:06:20

Fig.57 Power spectral density: CH151,11ac (40MHz)

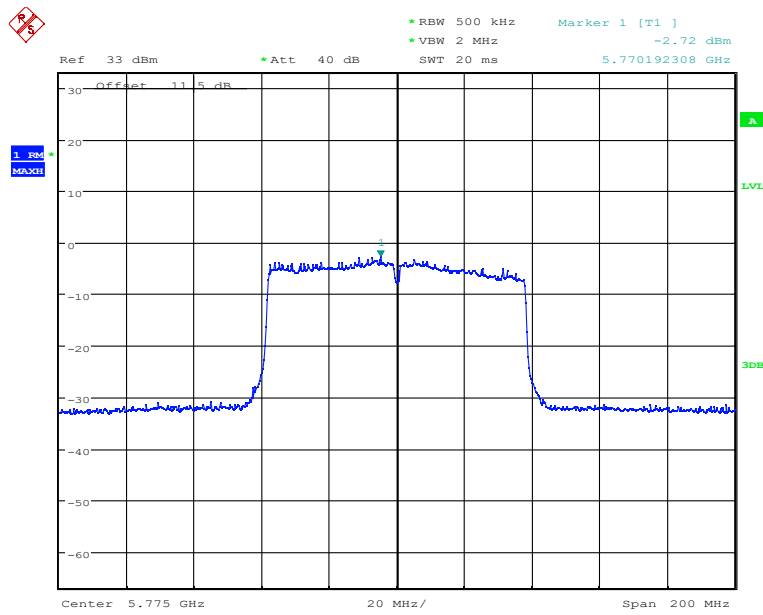


Date: 15.NOV.2021 13:06:05

Fig.58 Power spectral density: CH159,11ac (40MHz)

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Fig.59 Power spectral density: CH155,11ac (80MHz)

#### 6.4.Occupied Bandwidth

<b>Specifications:</b>	FCC Part 15. 407 (e)
<b>DUT Serial Number:</b>	865171050693608
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit Level Construction:

##### According to Part 15.407(e)

For an outdoor access point operating in the band 5.15-5.25 GHz, not required.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, not required.

For the band 5.725-5.85 GHz, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

#### Measurement Uncertainty:

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

#### Test Procedure:

##### 1. 6dB

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.715-5.85 GHz The following procedure shall be used for measuring this bandwidth

- a) Set RBW=100 kHz
- b) Set the video bandwidth(VBw) $\geq 3 \times$  RBW
- c) Detector= Peak
- d) Trace mode= max hold
- e) Sweep=auto couple.
- f) Allow the trace to stabilize
- g) 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

##### 2. 26dB/99%

The following procedure shall be used for measuring(99%)/(26dB) power bandwidth

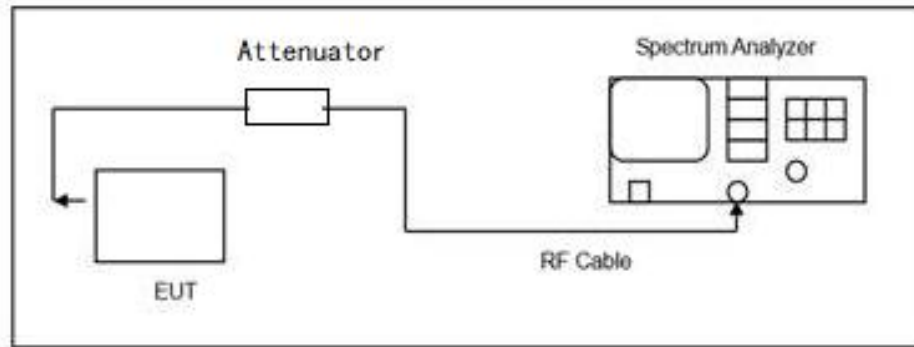
- a) . Set center frequency to the nominal EUT channel center frequency
- b) Set span=1.5 times to 5.0 times the OBW
- c) Set RBW=1% to 5% of the OBW
- d) SetVBW>3·RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode(until the trace stabilizes) shall be used

**Note: --**

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**Test block diagram:**



**Test Results:**

**5150-5250MHz:**

Mode	Occupied 26dB Bandwidth(MHz)			Conclusion
	Ch36	Ch40	Ch48	
802.11a	23.2	22.9	23.1	Pass
802.11n	23.7	23.7	23.7	Pass
802.11ac	23.5	23.8	23.4	Pass
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch38	Ch46		
802.11n (40M)	45.8	46.1	Pass	
802.11ac (40MHz)	45.3	46.2	Pass	
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch42			
802.11ac (80MHz)	56.0		Pass	

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Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch36	Ch40	Ch48	
802.11a	17.5	17.3	17.4	Pass
802.11n	18.5	18.5	18.5	Pass
802.11ac	18.5	18.5	18.6	Pass
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch38	Ch46		
802.11n (40M)	37.5	37.5	Pass	
802.11ac (40MHz)	37.5	37.4	Pass	
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch42			
802.11ac (80MHz)	79.2		Pass	

Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch36	Ch40	Ch48	
802.11a	16.6	16.6	16.6	Pass
802.11n	17.1	17.9	17.8	Pass
802.11ac	17.8	17.7	17.8	Pass
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch38	Ch46		
802.11n (40M)	36.3	36.4	Pass	
802.11ac (40MHz)	36.7	36.6	Pass	
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch42			
802.11ac (80MHz)	76.1		Pass	

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5250-5350MHz:

Mode	Occupied 26dB Bandwidth(MHz)			Conclusion
	Ch52	Ch60	Ch64	
802.11a	23.2	23.6	23.9	Pass
802.11n	23.0	23.3	23.5	Pass
802.11ac	23.3	23.4	23.5	Pass
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch54	Ch62		
802.11n (40M)	46.2	46.0	Pass	
802.11ac (40MHz)	46.2	45.3	Pass	
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch58			
802.11ac (80MHz)	114.3		Pass	

Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch52	Ch60	Ch64	
802.11a	17.8	17.7	17.8	Pass
802.11n	18.2	18.3	18.3	Pass
802.11ac	18.5	18.5	18.5	Pass
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch54	Ch62		
802.11n (40M)	37.5	37.5	Pass	
802.11ac (40MHz)	37.7	37.4	Pass	
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch58			
802.11ac (80MHz)	80.5		Pass	

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Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch52	Ch60	Ch64	
802.11a	16.6	16.6	16.6	Pass
802.11n	16.3	16.2	15.3	Pass
802.11ac	17.8	17.8	17.8	Pass
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch54	Ch62		
802.11n (40M)	36.3	36.8	Pass	
802.11ac (40MHz)	32.6	36.5	Pass	
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch58			
802.11ac (80MHz)	75.0		Pass	

**5470-5725MHz:**

Mode	Occupied 26dB Bandwidth(MHz)			Conclusion
	Ch100	Ch116	Ch140	
802.11a	23.3	23.7	23.9	Pass
802.11n	23.5	24.1	23.9	Pass
802.11ac	23.6	23.0	24.5	Pass
Mode	Occupied 26dB Bandwidth(MHz)			Conclusion
	Ch102	Ch110	Ch134	
802.11n (40M)	46.4	46.6	48.5	Pass
802.11ac (40MHz)	47.1	46.1	47.1	Pass
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch106	Ch122		
802.11ac (80MHz)	107.3	95.1	Pass	

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Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch100	Ch116	Ch140	
802.11a	17.6	17.6	17.7	Pass
802.11n	18.5	18.5	18.6	Pass
802.11ac	18.5	18.5	18.5	Pass
Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch102	Ch110	Ch134	
802.11n (40M)	37.6	37.6	37.8	Pass
802.11ac (40MHz)	37.6	37.6	37.8	Pass
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch106	Ch122		
802.11ac (80MHz)	80.7	79.1	Pass	

Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch100	Ch116	Ch140	
802.11a	16.6	16.7	16.6	Pass
802.11n	18.8	17.7	17.7	Pass
802.11ac	17.7	17.8	17.7	Pass
Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch102	Ch110	Ch134	
802.11n (40M)	35.4	34.9	36.5	Pass
802.11ac (40MHz)	36.5	36.5	36.5	Pass
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch106	Ch122		
802.11ac (80MHz)	76.9	75.0	Pass	

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5725-5850MHz:

Mode	Occupied 26dB Bandwidth(MHz)			Conclusion
	Ch149	Ch157	Ch165	
802.11a	23.0	23.0	22.8	Pass
802.11n	23.6	23.5	23.7	Pass
802.11ac	23.6	23.7	23.2	Pass
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch151	Ch159		
802.11n (40M)	46.7	45.9	Pass	
802.11ac (40MHz)	46.4	46.4	Pass	
Mode	Occupied 26dB Bandwidth(MHz)		Conclusion	
	Ch155			
802.11ac (80MHz)	96.1		Pass	

Mode	Occupied 99% Bandwidth(MHz)			Conclusion
	Ch149	Ch157	Ch165	
802.11a	17.3	17.4	17.5	Pass
802.11n	18.5	18.5	18.5	Pass
802.11ac	18.5	18.5	18.5	Pass
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch151	Ch159		
802.11n (40M)	37.6	37.5	Pass	
802.11ac (40MHz)	37.6	37.5	Pass	
Mode	Occupied 99% Bandwidth(MHz)		Conclusion	
	Ch155			
802.11ac (80MHz)	79.4		Pass	

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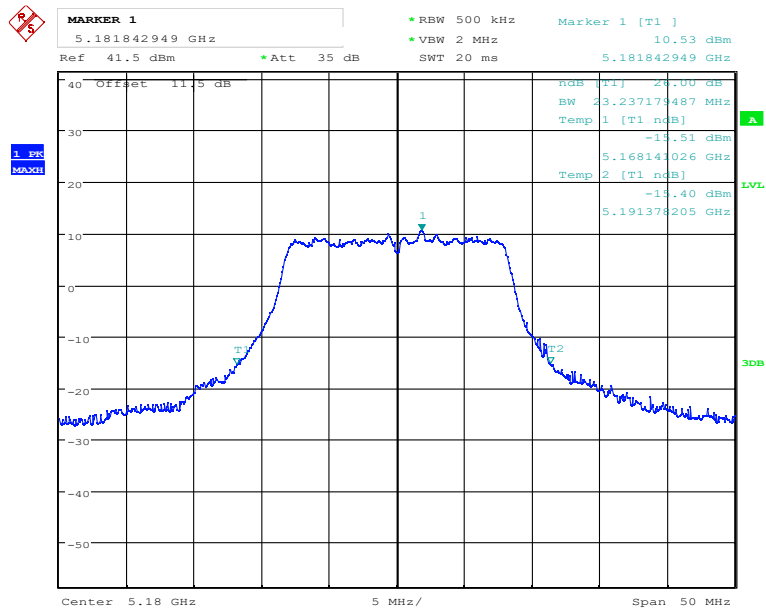
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Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch149	Ch157	Ch165	
802.11a	16.6	16.7	16.6	Pass
802.11n	17.8	17.8	17.8	Pass
802.11ac	17.7	17.8	17.8	Pass
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch151	Ch159		
802.11n (40M)	36.5	36.5	Pass	
802.11ac (40MHz)	36.5	36.4	Pass	
Mode	Occupied 6dB Bandwidth(MHz)		Conclusion	
	Ch155			
802.11ac (80MHz)	76.3		Pass	

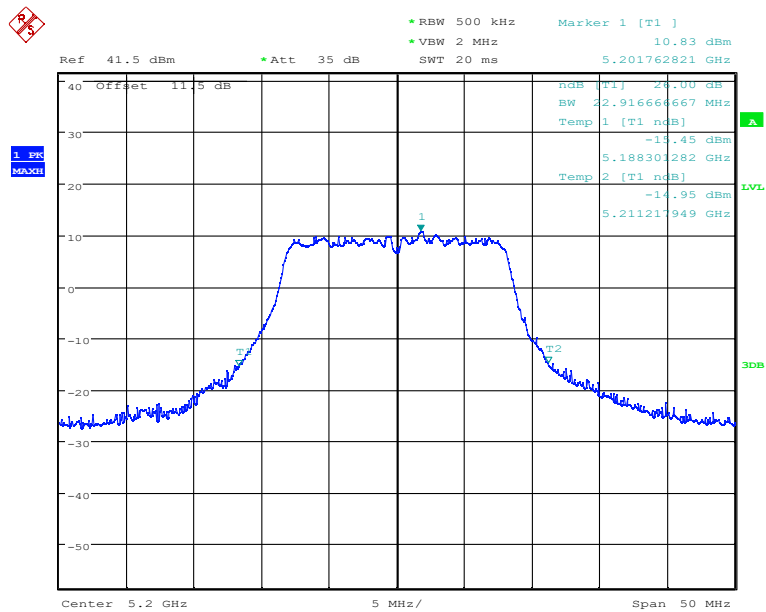
**Conclusion: PASS**

Test figure as below:



Date: 10.NOV.2021 06:07:37

Fig.60 26dB Bandwidth: Ch36,11a

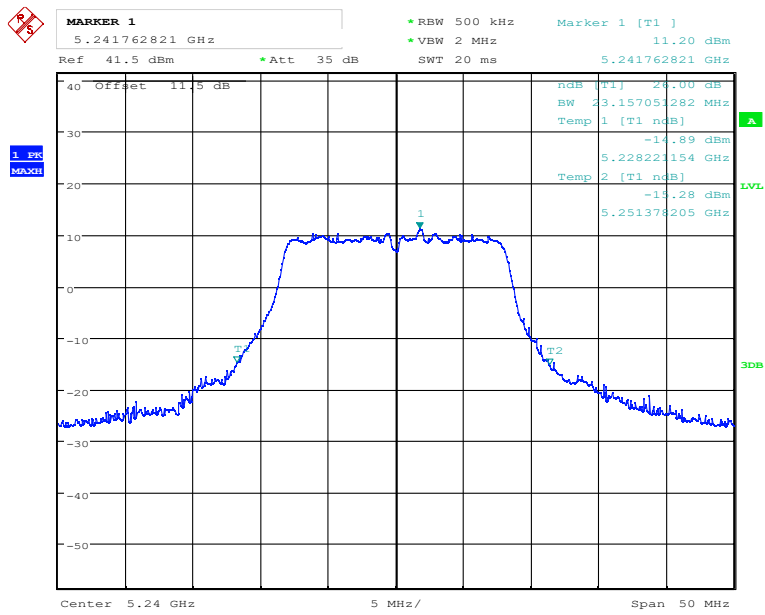


Date: 10.NOV.2021 06:08:09

Fig.61 26dB Bandwidth: Ch40,11a

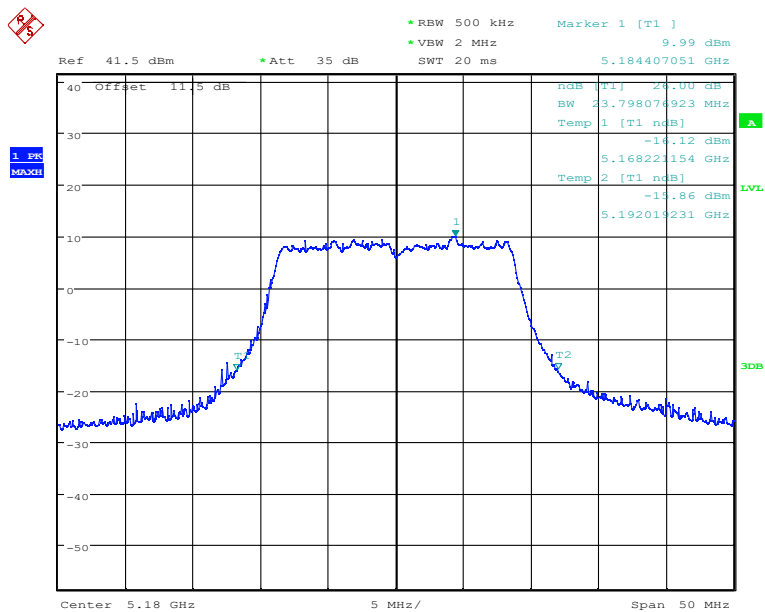
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Fig.62 26dB Bandwidth: Ch48,11a

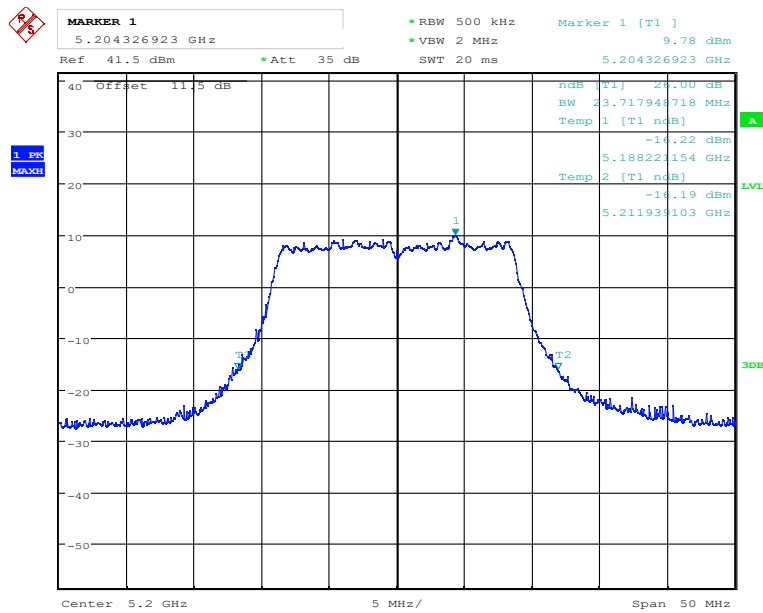


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Fig.63 26dB Bandwidth: Ch36,11n

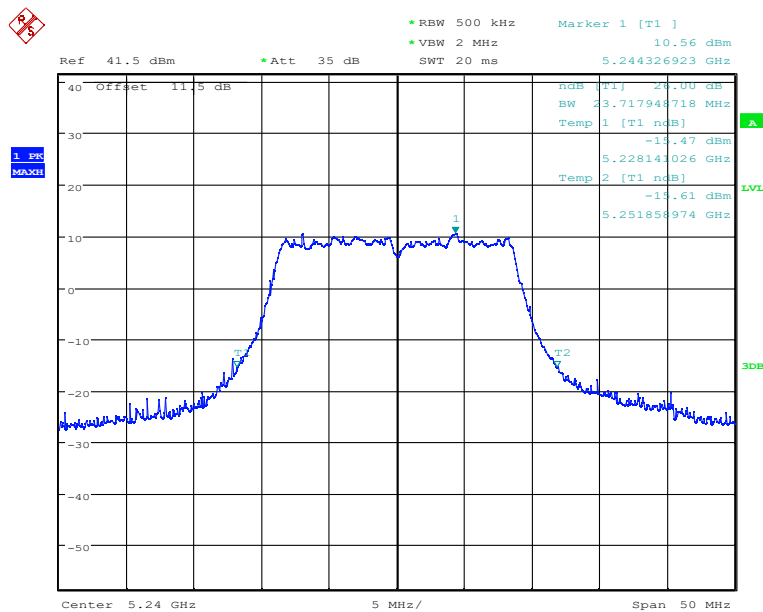
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Fig.64 26dB Bandwidth: Ch40,11n



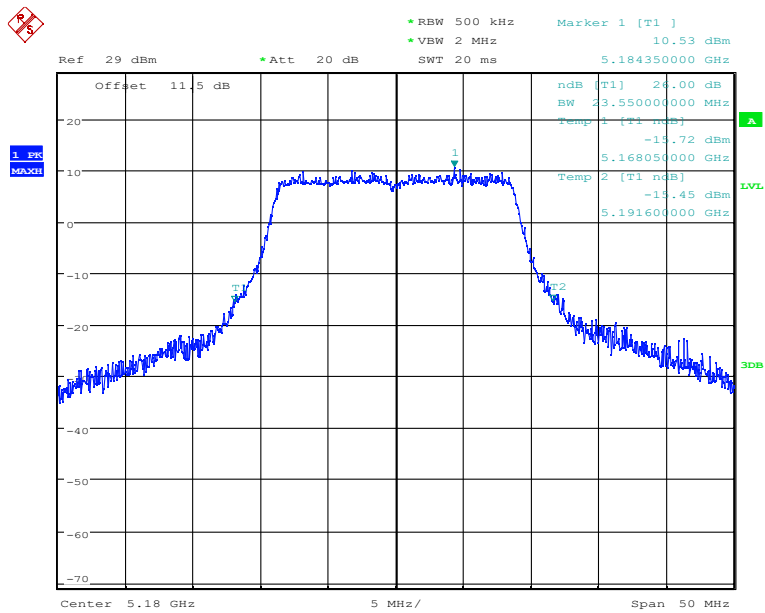
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Fig.65 26dB Bandwidth: Ch48,11n

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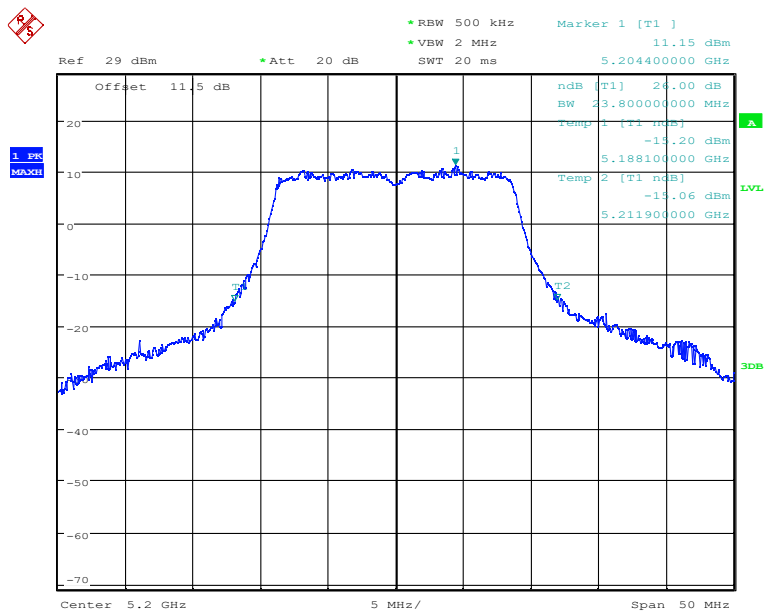
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Fig.66 26dB Bandwidth: Ch36,11ac

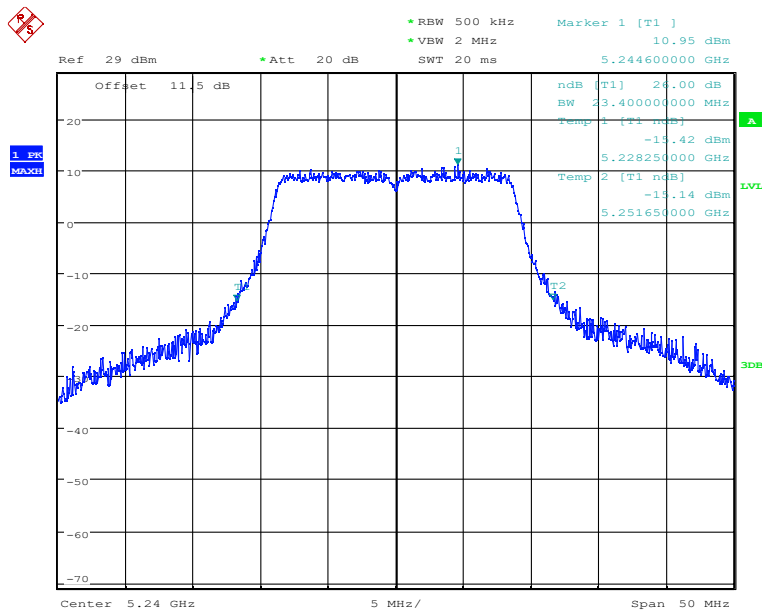


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Fig.67 26dB Bandwidth: Ch40,11ac

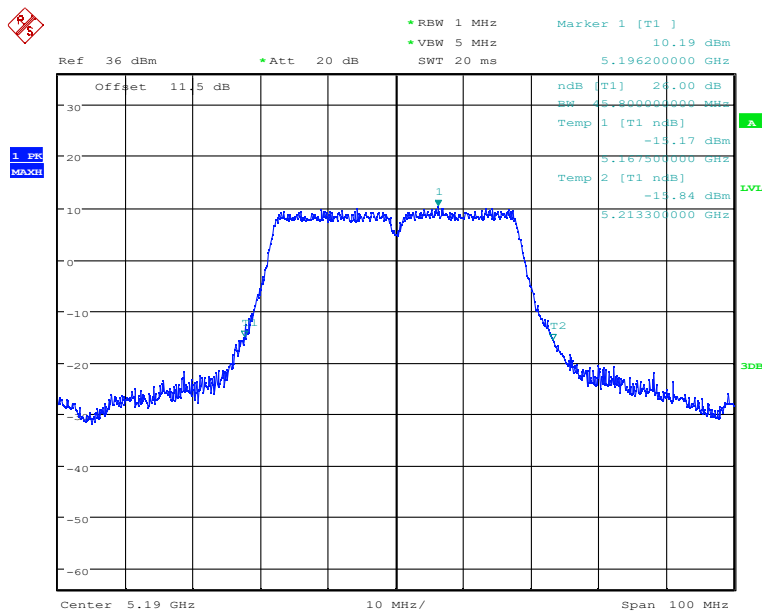
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Fig.68 26dB Bandwidth: Ch48,11ac

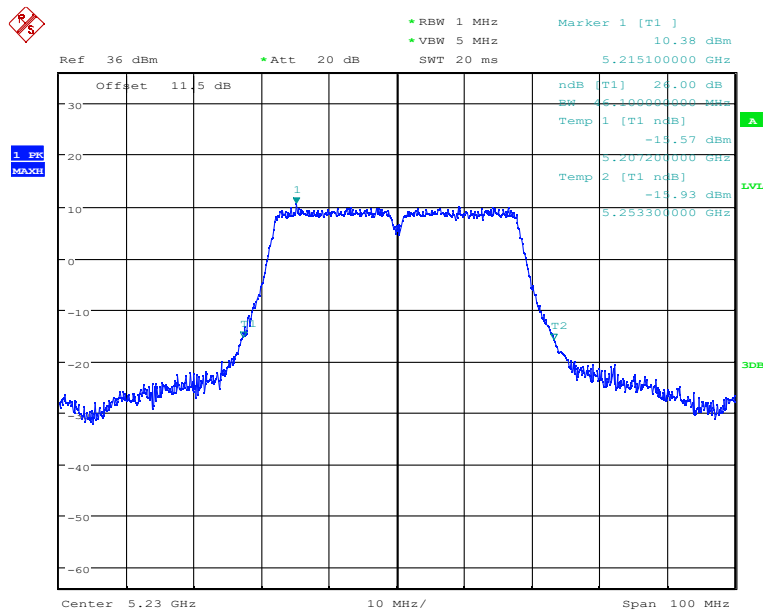


Date: 15.NOV.2021 22:34:32

Fig.69 26dB Bandwidth: Ch38,11n (40MHz)

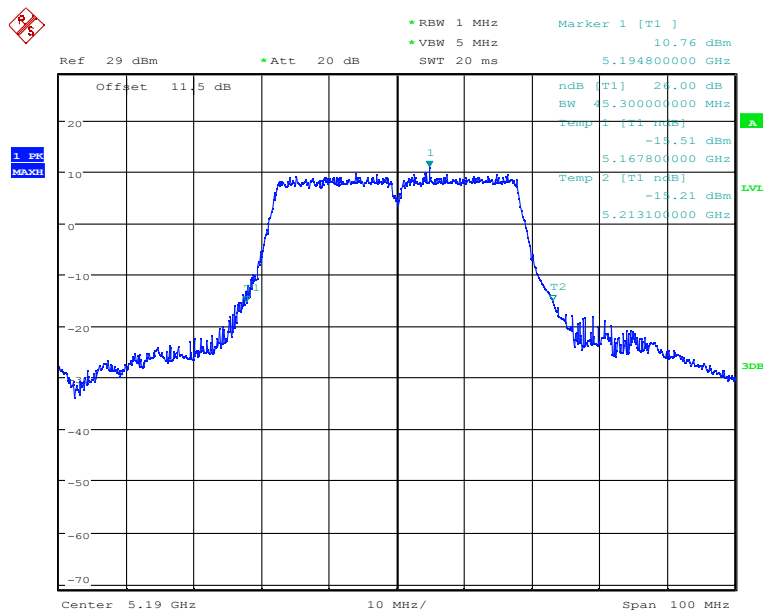
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Fig.70 26dB Bandwidth: Ch46,11n (40MHz)

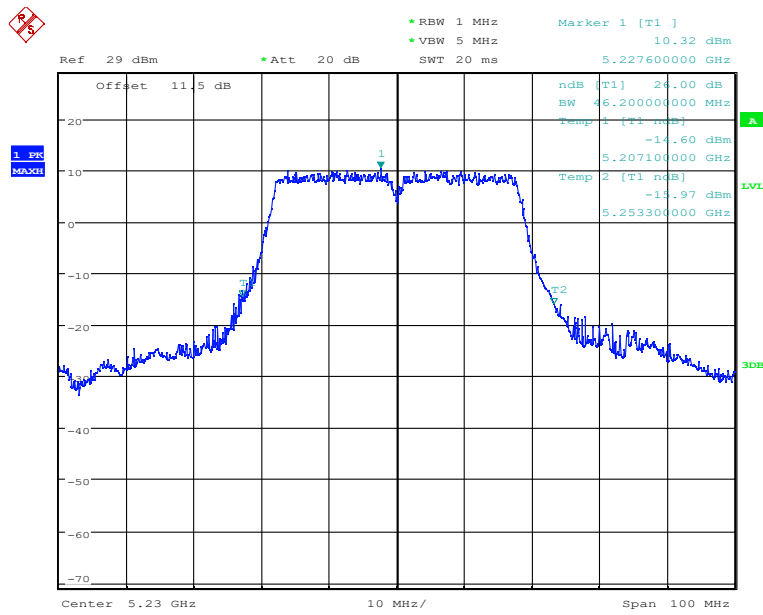


Date: 15.NOV.2021 23:48:09

Fig.71 26dB Bandwidth: Ch38,11ac (40MHz)

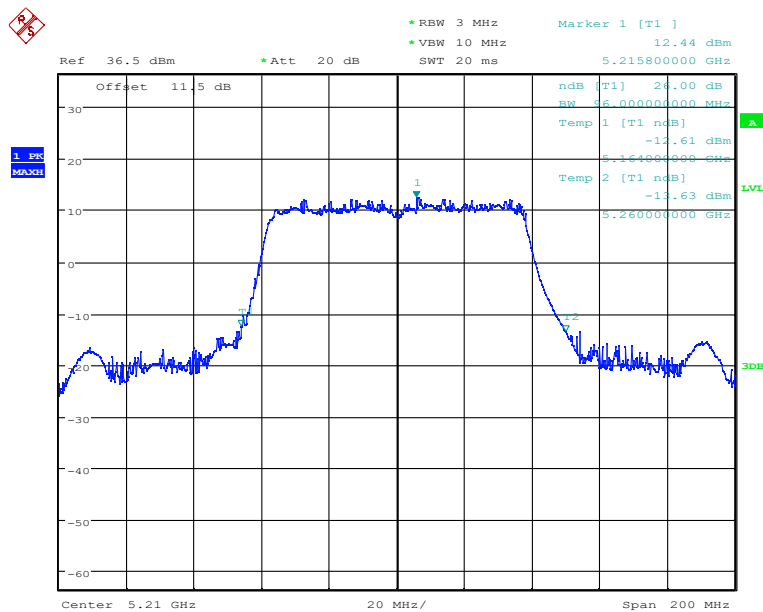
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Fig.72 26dB Bandwidth: Ch46,11ac (40MHz)

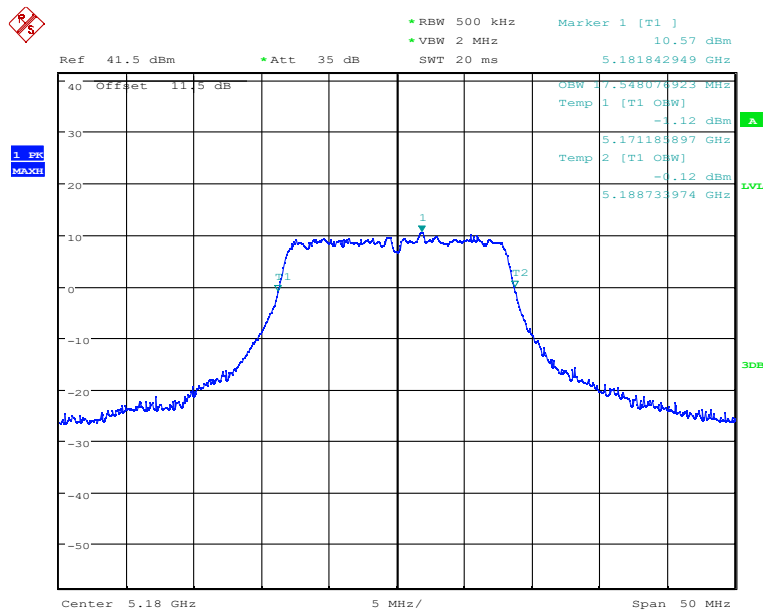


Date: 15.NOV.2021 23:58:09

Fig.73 26dB Bandwidth: Ch42,11ac (80MHz)

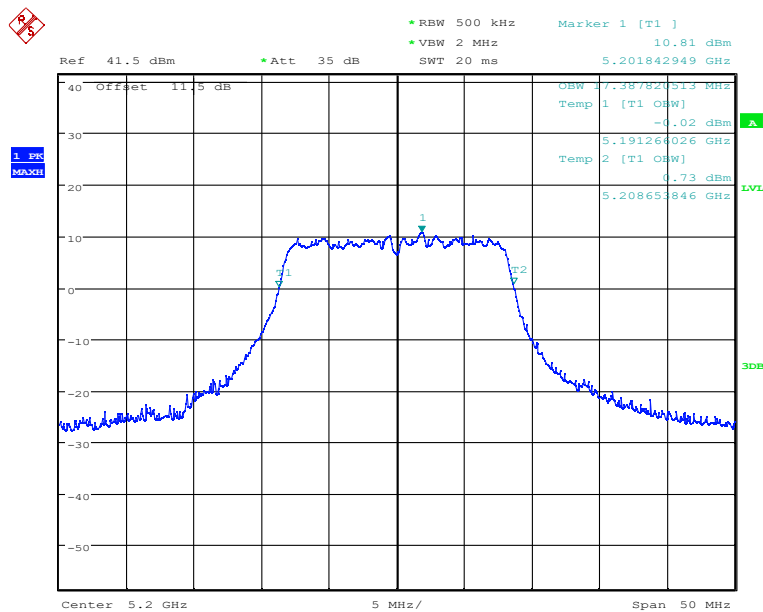
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Date: 10.NOV.2021 06:07:02

Fig.74 99% Bandwidth: Ch36,11a

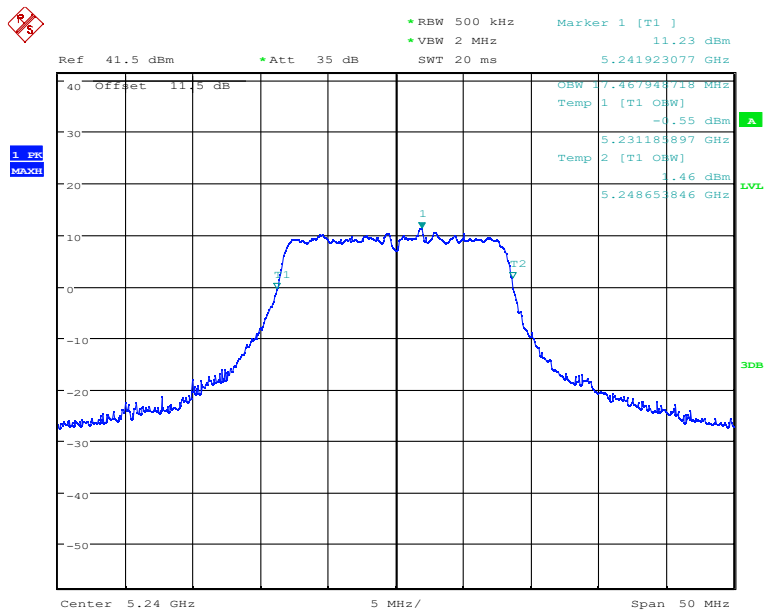


Date: 10.NOV.2021 06:08:21

Fig.75 99% Bandwidth: Ch40,11a

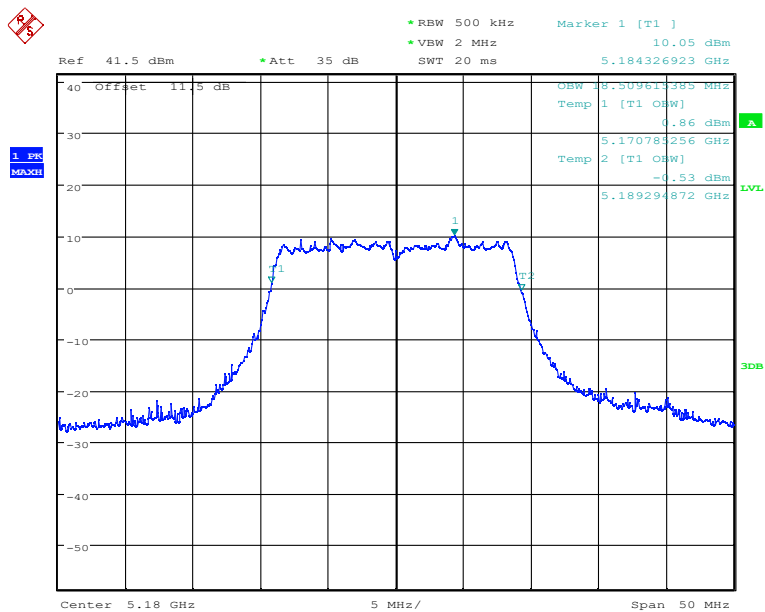
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Date: 10.NOV.2021 06:08:48

Fig.76 99% Bandwidth: Ch48,11a

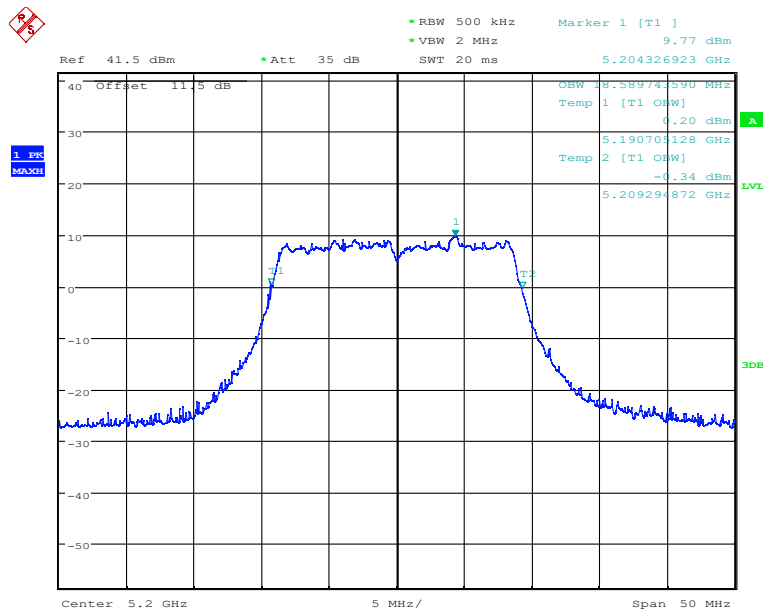


Date: 10.NOV.2021 06:10:00

Fig.77 99% Bandwidth: Ch36,11n

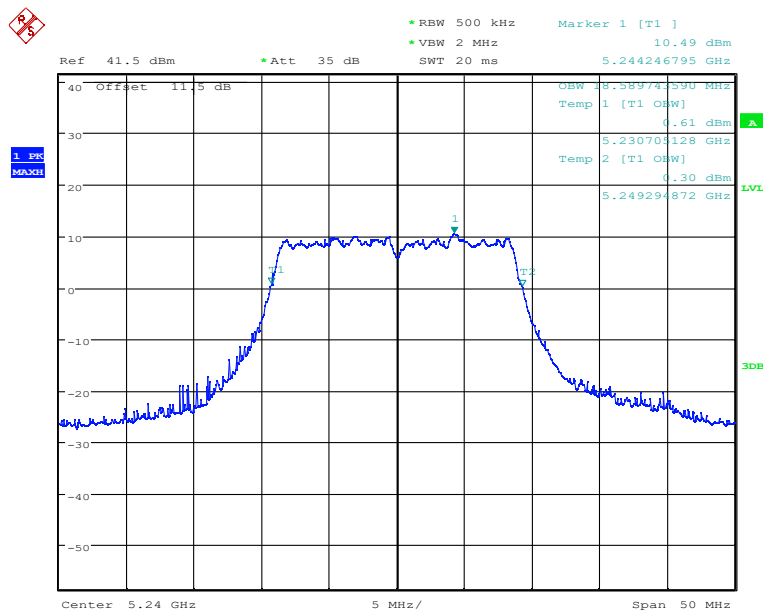
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Date: 10.NOV.2021 06:10:25

Fig.78 99% Bandwidth: Ch40,11n

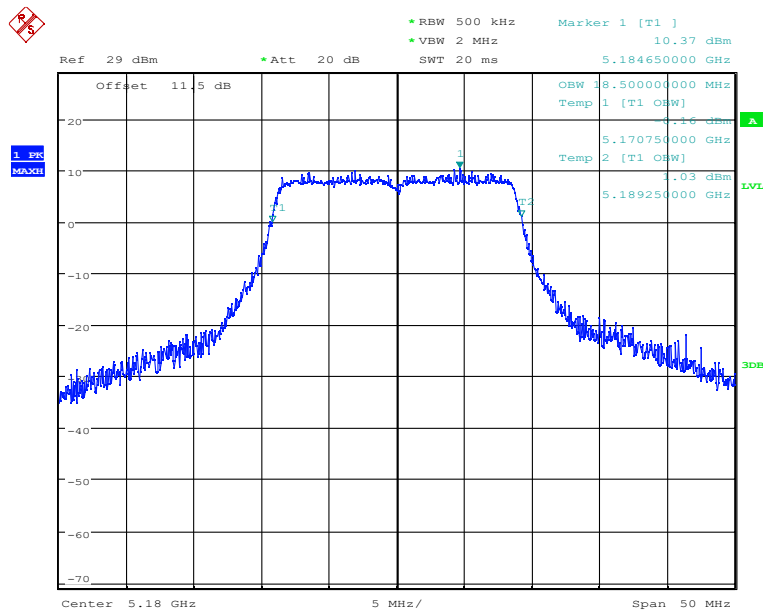


Date: 10.NOV.2021 06:11:21

Fig.79 99% Bandwidth: Ch48,11n

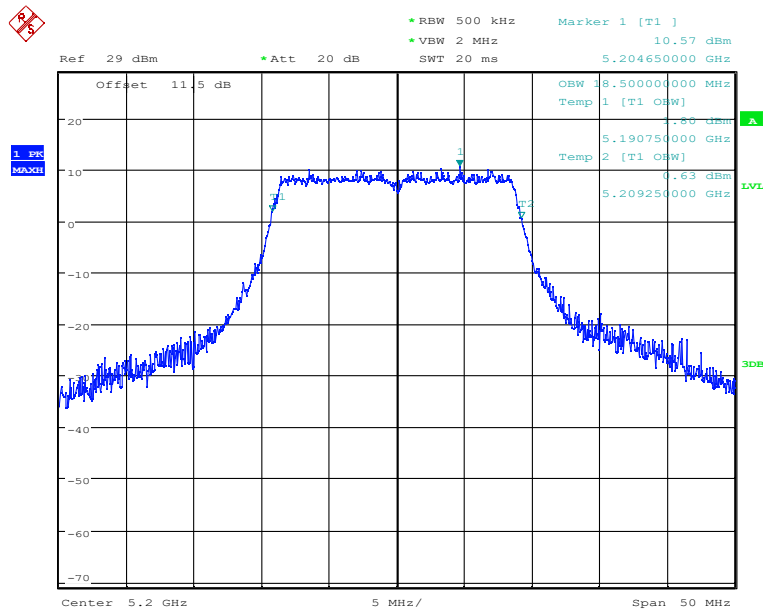
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Fig.80 99% Bandwidth: Ch36,11ac



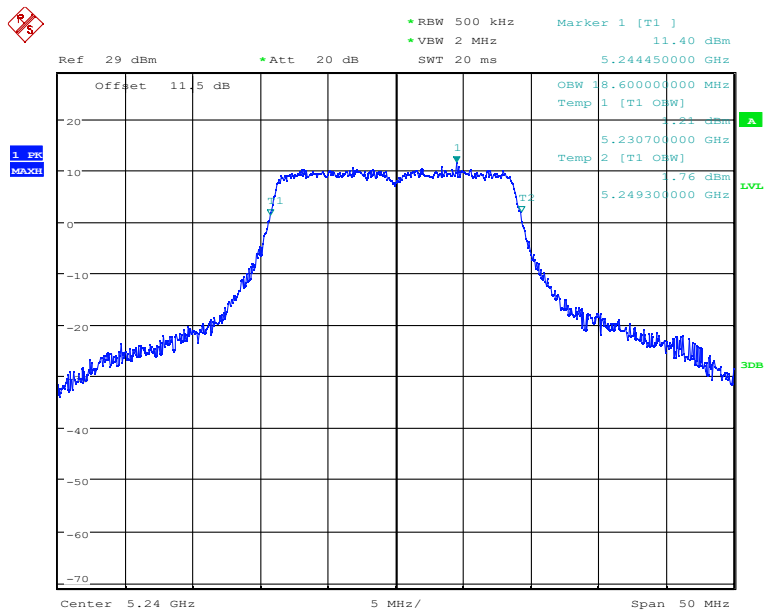
Date: 15.NOV.2021 23:29:51

Fig.81 99% Bandwidth: Ch40,11ac

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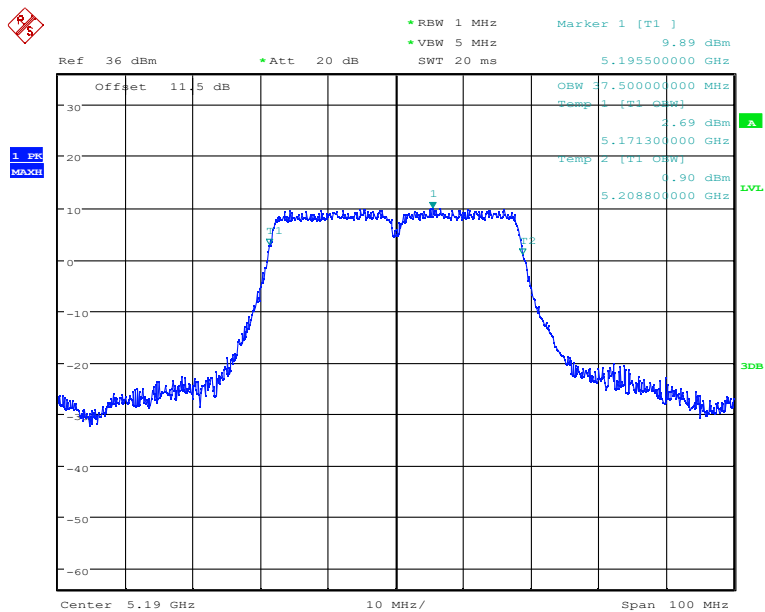
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Date: 15.NOV.2021 23:36:21

Fig.82 99% Bandwidth: Ch48,11ac

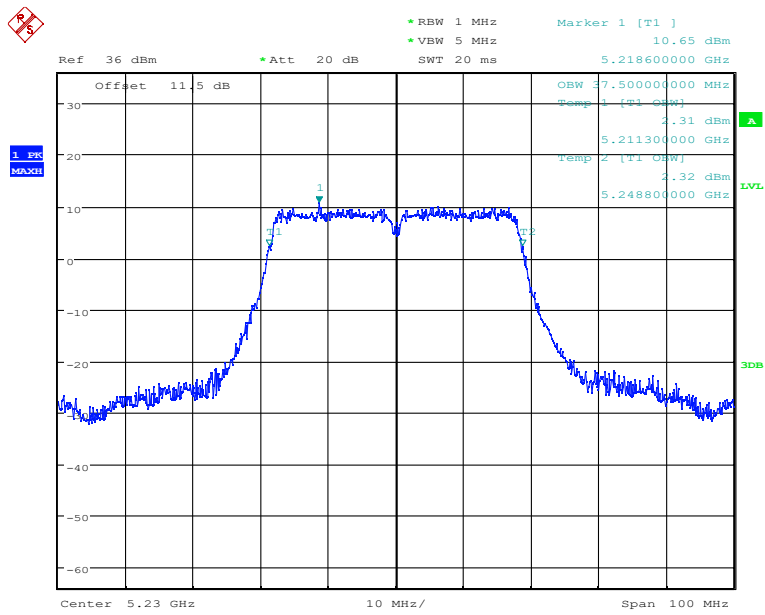


Date: 15.NOV.2021 22:34:18

Fig.83 99% Bandwidth: Ch38,11n (40MHz)

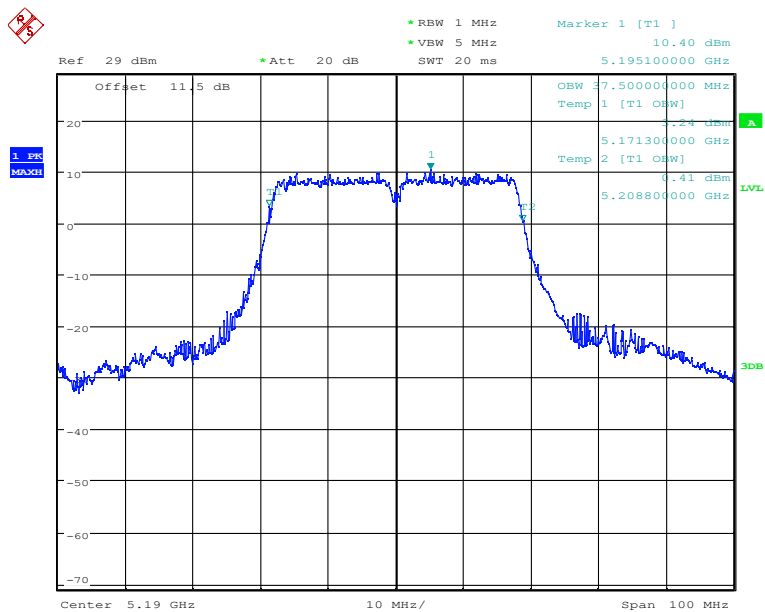
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Date: 15.NOV.2021 22:36:41

Fig.84 99% Bandwidth: Ch46,11n (40MHz)

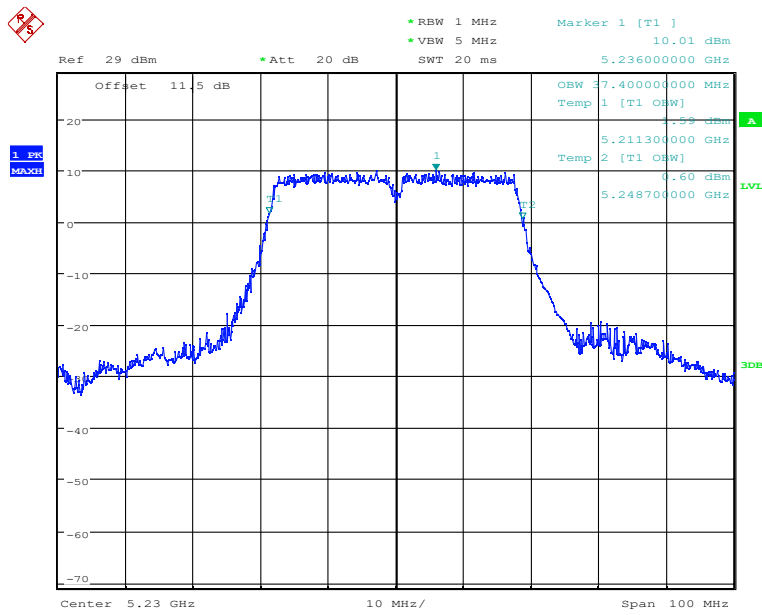


Date: 15.NOV.2021 23:47:59

Fig.85 99% Bandwidth: Ch38,11ac (40MHz)

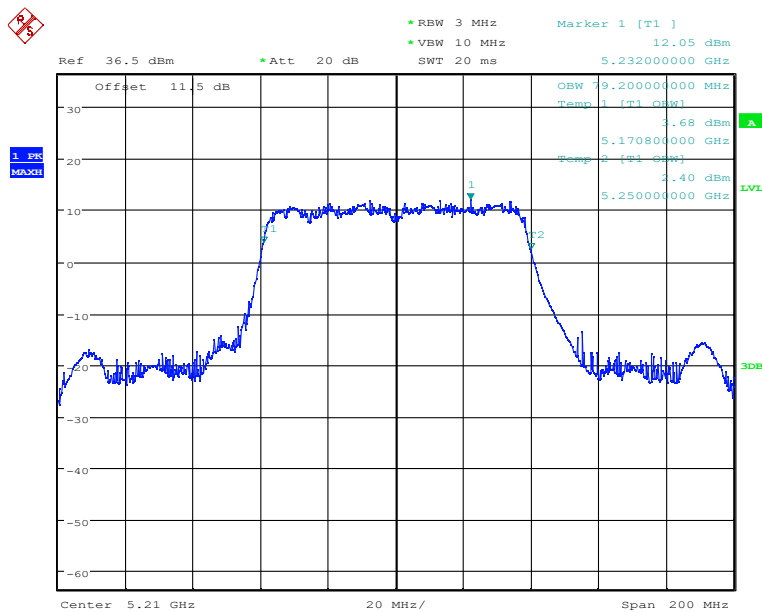
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Fig.86 99% Bandwidth: Ch46,11ac (40MHz)

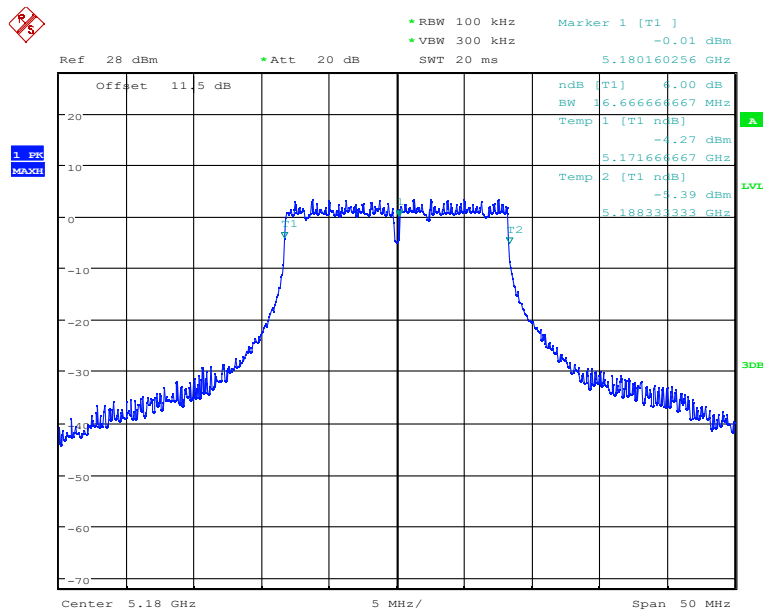


Date: 15.NOV.2021 23:57:35

Fig.87 99% Bandwidth: Ch42,11ac (80MHz)

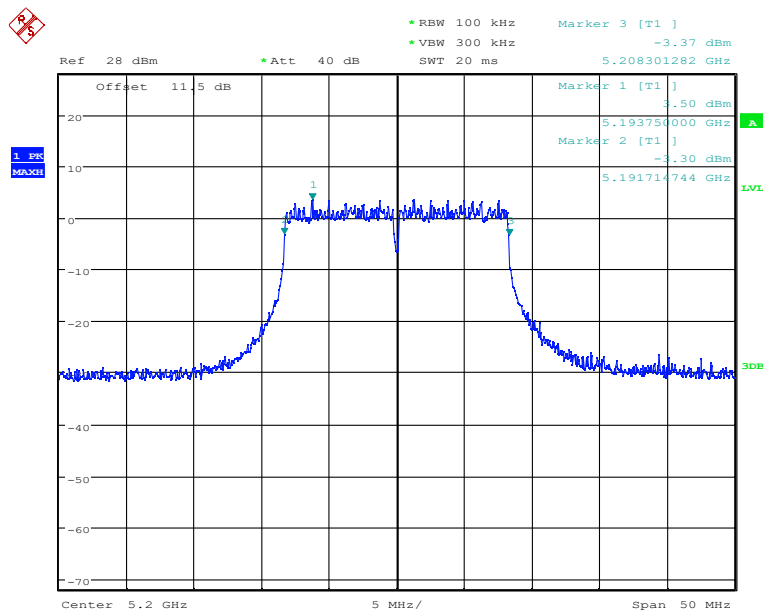
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Fig.88 6dB Bandwidth: Ch36,11a

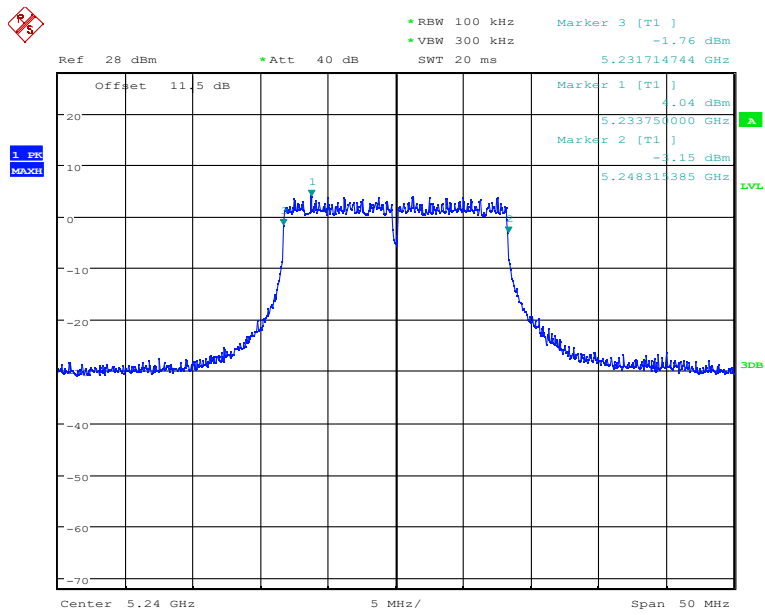


Date: 15.NOV.2021 22:10:10

Fig.89 6dB Bandwidth: Ch40,11a

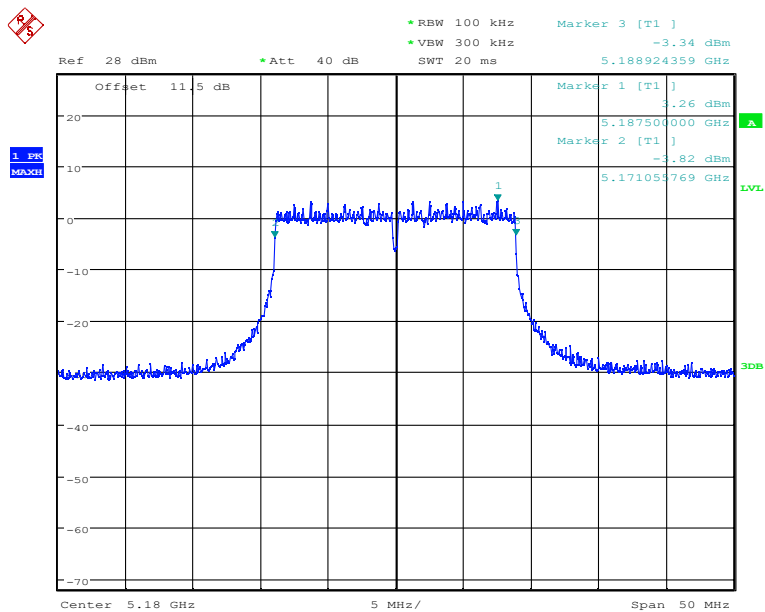
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Fig.90 6dB Bandwidth: Ch48,11a

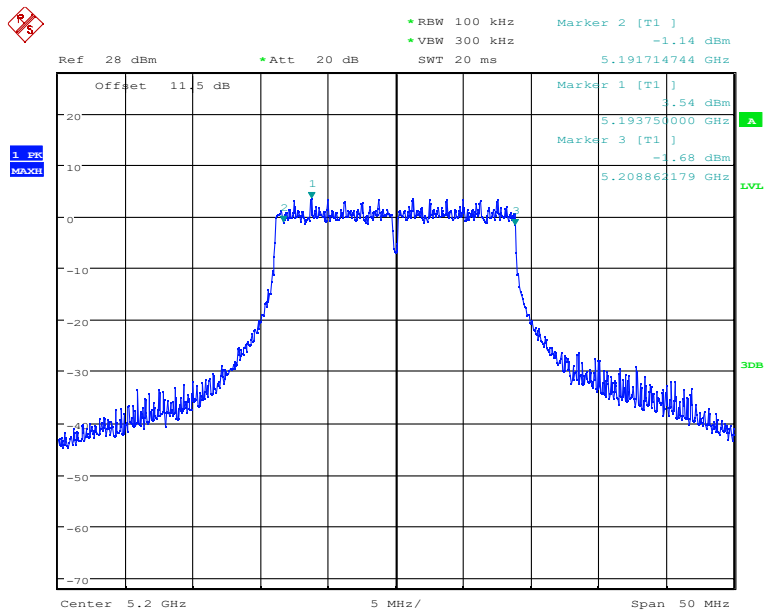


Date: 15.NOV.2021 22:14:22

Fig.91 6dB Bandwidth: Ch36,11n

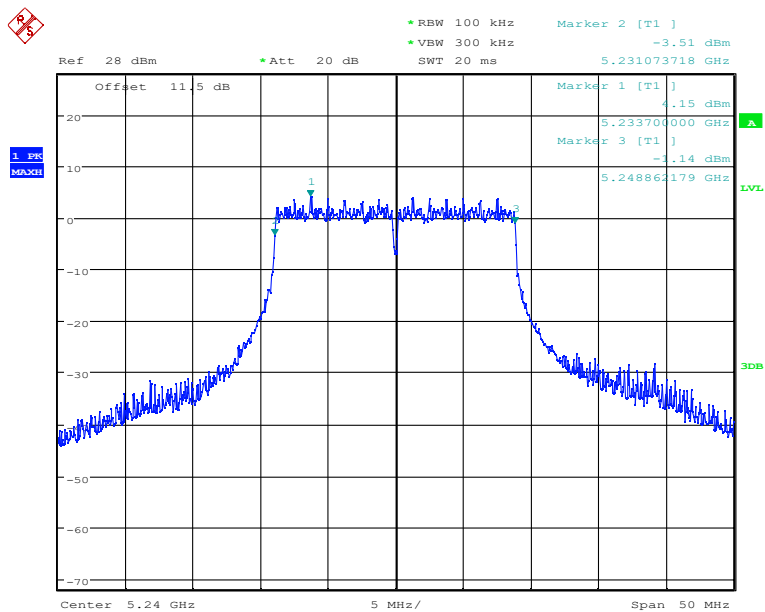
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Fig.92 6dB Bandwidth: Ch40,11n

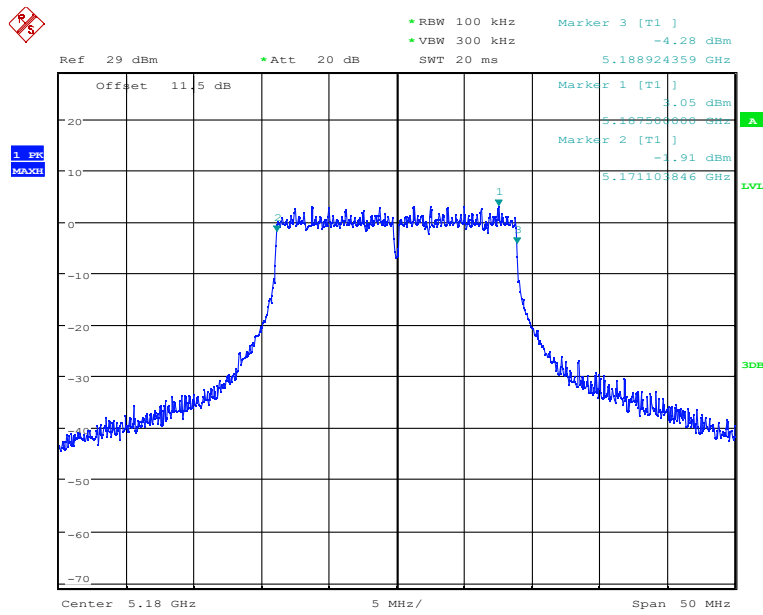


Date: 15.NOV.2021 22:22:24

Fig.93 6dB Bandwidth: Ch48,11n

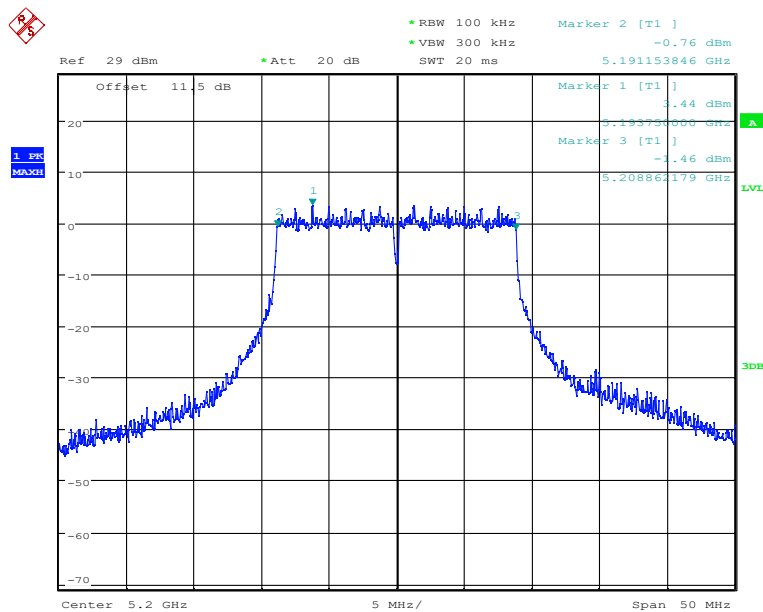
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Fig.94 6dB Bandwidth: Ch36,11ac

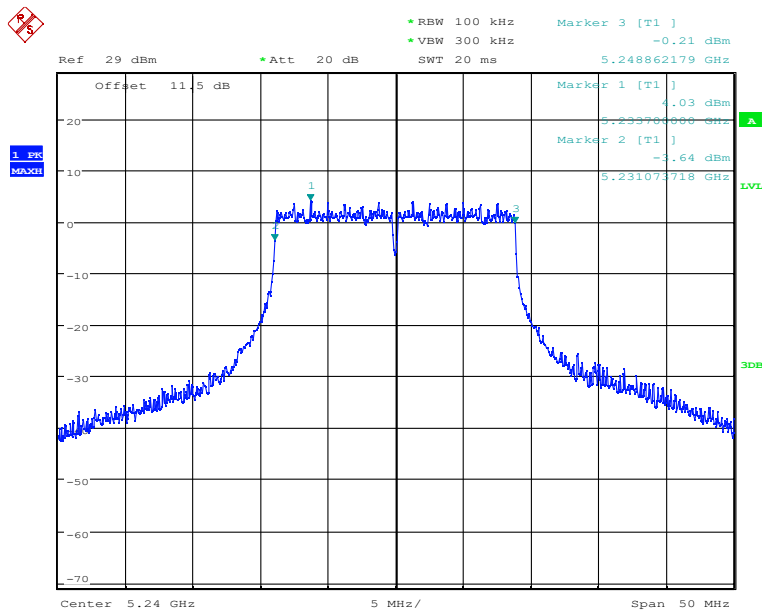


Date: 15.NOV.2021 23:31:53

Fig.95 6dB Bandwidth: Ch40,11ac

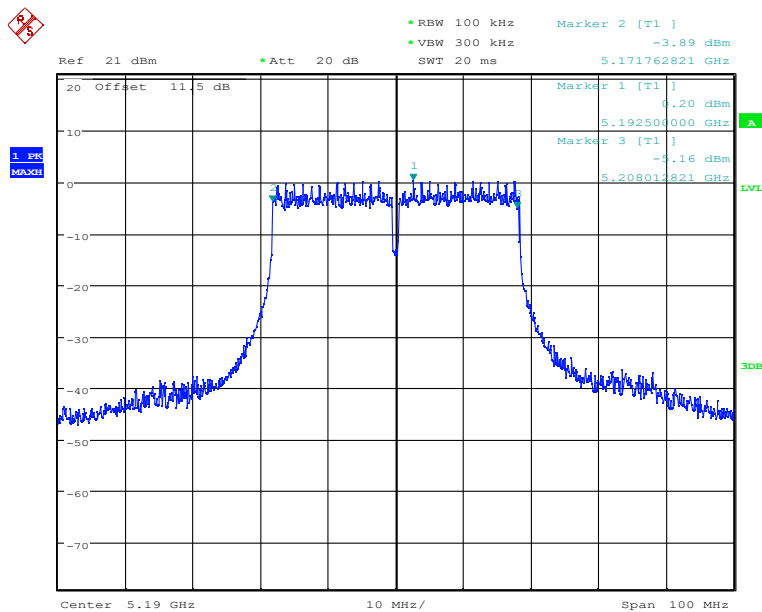
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Fig.96 6dB Bandwidth: Ch48,11ac



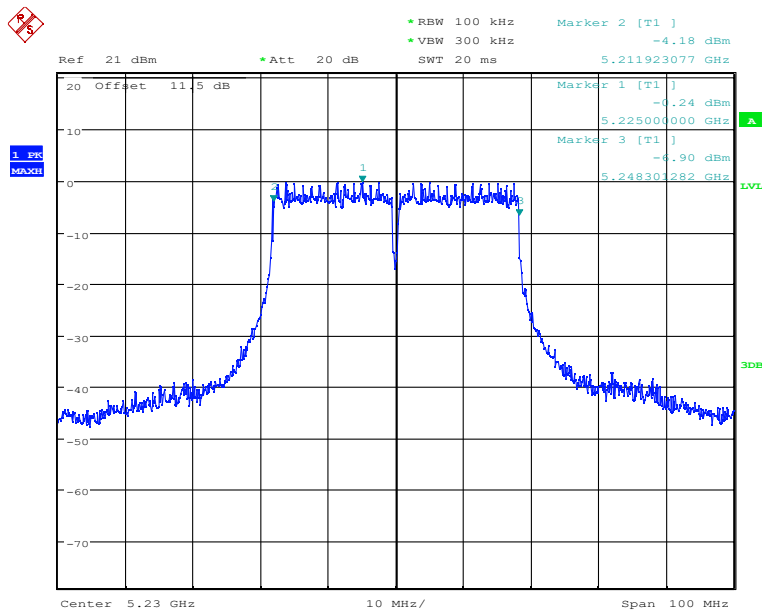
Date: 15.NOV.2021 22:44:56

Fig.97 6dB Bandwidth: Ch38,11n (40MHz)

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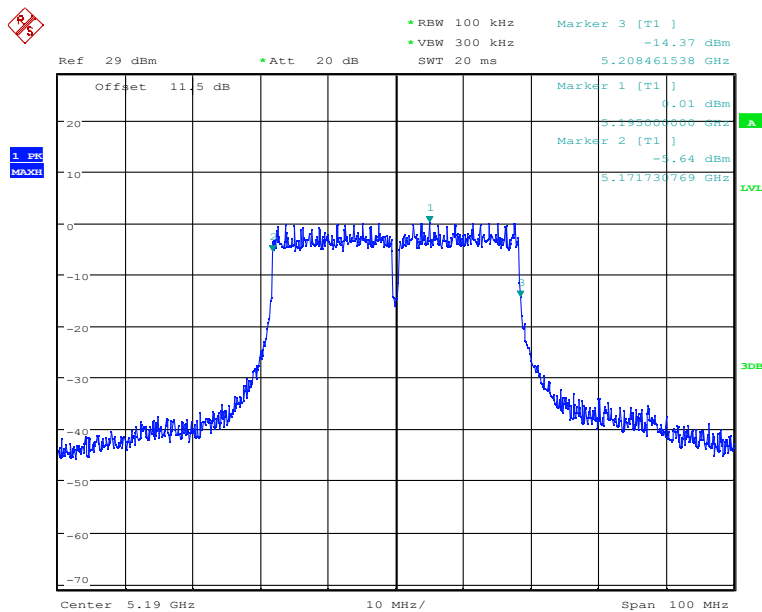
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Date: 15.NOV.2021 22:46:18

Fig.98 6dB Bandwidth: Ch46,11n (40MHz)

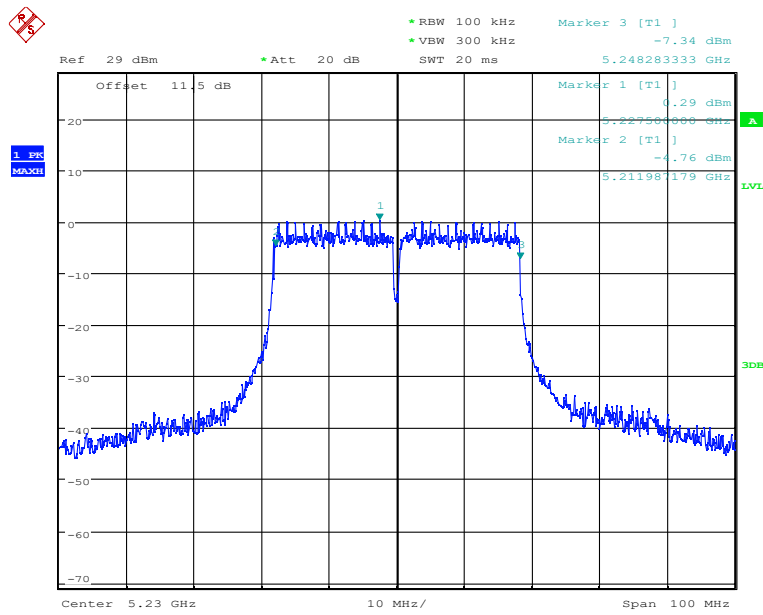


Date: 15.NOV.2021 23:47:44

Fig.99 6dB Bandwidth: Ch38,11ac (40MHz)

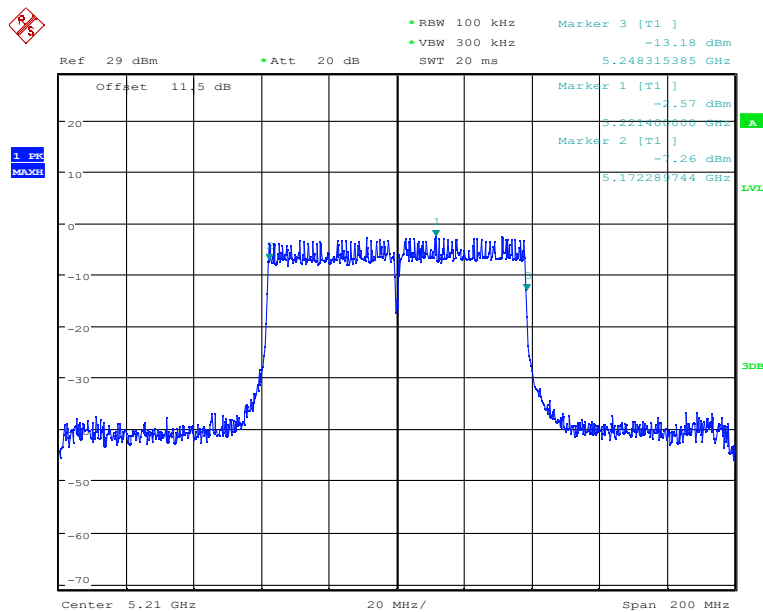
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Fig.100 6dB Bandwidth: Ch46,11ac (40MHz)

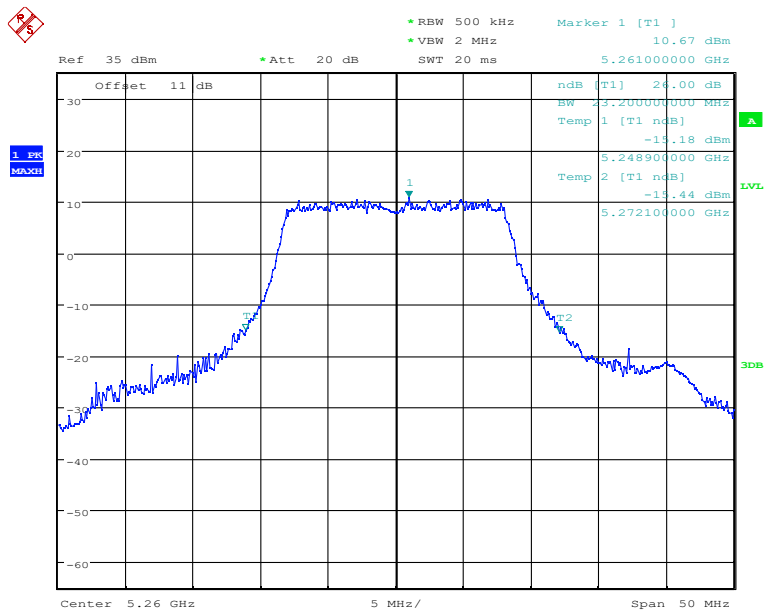


Date: 15.NOV.2021 23:52:42

Fig.101 6dB Bandwidth: Ch42,11ac (80MHz)

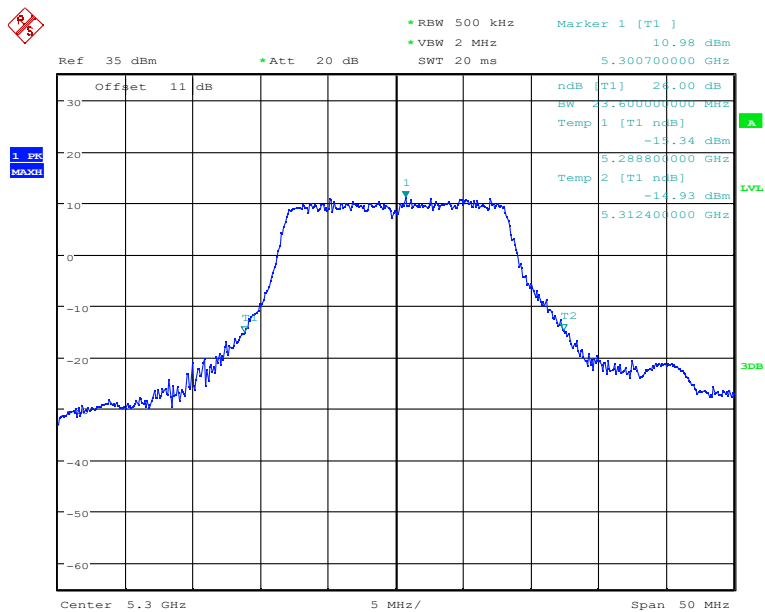
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Fig.102 26dB Bandwidth: Ch52,11a

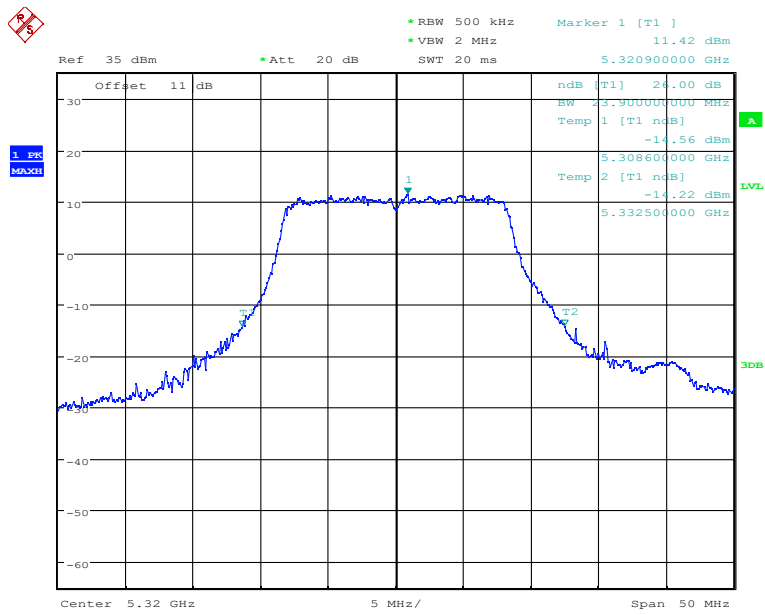


Date: 15.NOV.2021 02:07:54

Fig.103 26dB Bandwidth: Ch60,11a

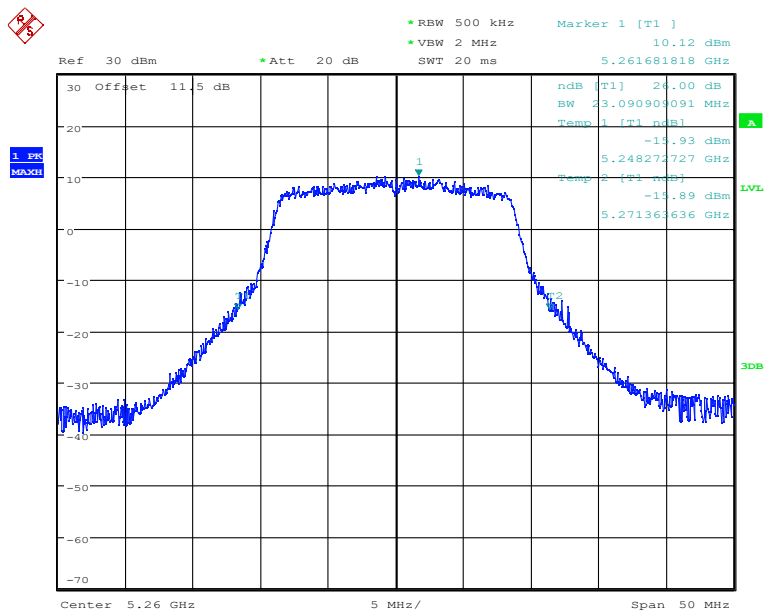
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Fig.104 26dB Bandwidth: Ch64,11a



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Fig.105 26dB Bandwidth: Ch52,11n

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