



FCC PART 15 TEST REPORT No.I21Z60861-IOT05

for

TCL Communication Ltd.

Tablet PC

9198S

With

FCC ID: 2ACCJB155

Hardware Version: 03

Software Version: 2C61

Issued Date: 2021-07-19

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 CTTL.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z60861-IOT05	Rev.0	1st edition	2021-07-19
I21Z60861-IOT05	Rev.1	1.Change Page.5.Testing Location 1. 2.Remove KDB 558074 D01 at Page.9 .Add KDB-662911 D01 at Page.9 . 3.Add calibration information of VSA,at Page.11 . 4.Add Pic. (ANT10 11g 6Mbps CH56) power of max power.at Page.14.	2021-09-10
I21Z60861-IOT05	Rev.2	1、Renew the value of MIMO Power and MIMO PSD,about add the Directional gain. (P.17-21)	2021-09-16

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1. TEST LATORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1:CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

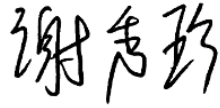
Relative Humidity: 20-75%

1.4. Project date

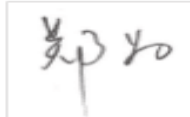
Testing Start Date: 2021-05-17

Testing End Date: 2021-07-16

1.5. Signature



Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Hu Xiaoyu
(Approved this test report)

2. CLIENT INFORMATION

2.1 Applicant Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

2.2 Manufacturer Information

Company Name: TCL Communication Ltd
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

3. EQUIPMENT UNDER TEST (EUT) AND

ANCILLARY EQUIPMENT (AE)

3.1. About EUT

Description	Tablet PC
Model name	9198S
FCC ID	2ACCJB155
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Voltage	3.8V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	358861400001957	03	2C61
EUT2	358861400001775	03	2C61

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Charger	/
AE2	Cable	/

AE1

Model	QC13US
Manufacturer	BYD
Length of cable	/

AE2

Type	/
Manufacturer	/
Length of cable	0.8 meter

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

3.4. General Description

The Equipment under Test (EUT) is a model of Tablet PC with integrated antenna and inbuilt battery. It has Bluetooth (EDR)function.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant 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.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2018
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12
KDB-662911 D01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g. MIMO Smart Antenna etc)	2013

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	P
Peak Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
Band edge compliance (Radiated)	15.209	/	P
Transmitter spurious emissions (Radiated)	15.407	/	P
AC Powerline Conducted Emission (150kHz- 30MHz)	15.407	/	P
Frequency Stability	15.407	/	P
99% Occupied bandwidth	/	/	P
Transmit Power Control	15.407	/	NA

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacture as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.8V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
0	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2021-05-23
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2022-05-24
2	LISN	ENV216	101200	R&S	1 year	2021-10-15
3	Test Receiver	ESCI	100344	R&S	1 year	2022-02-23
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100235	Rohde & Schwarz	1 year	2022-02-23
2	BiLog Antenna	VULB9163	9163-483	Schwarzbeck	1 year	2021-08-27
3	Antenna	3115	6914	ETS-Lindgren	1 year	2022-02-03

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 Occupied Channel Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.16
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.44
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.28

8.6. AC Power-line Conducted Emission

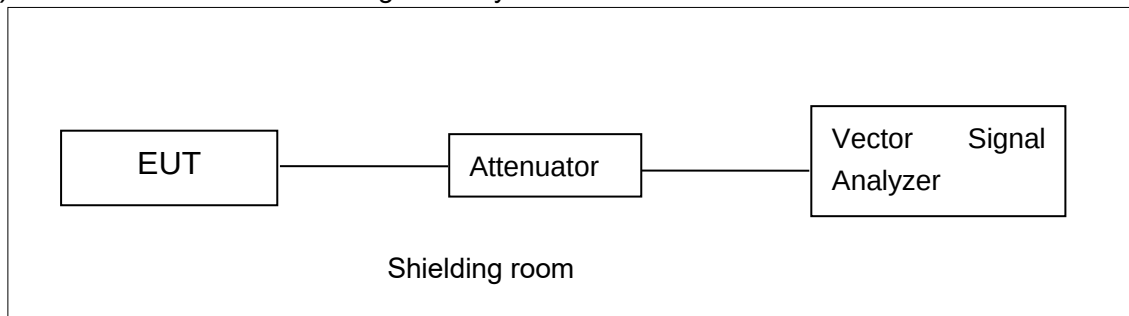
Measurement Uncertainty : 3.08,k=2

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

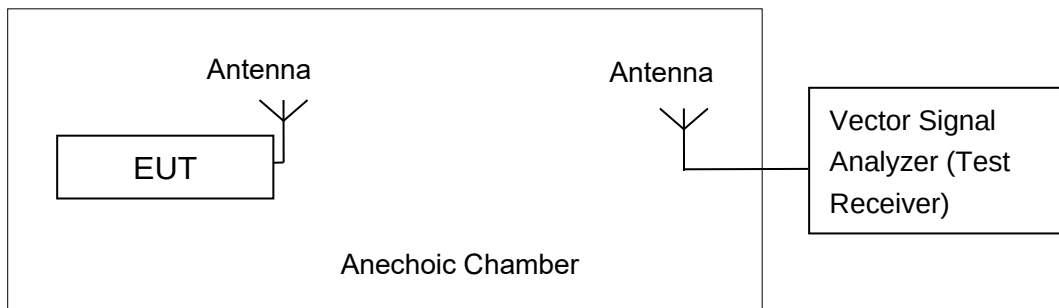


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to KDB 789033

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

A.2. Maximum output Power

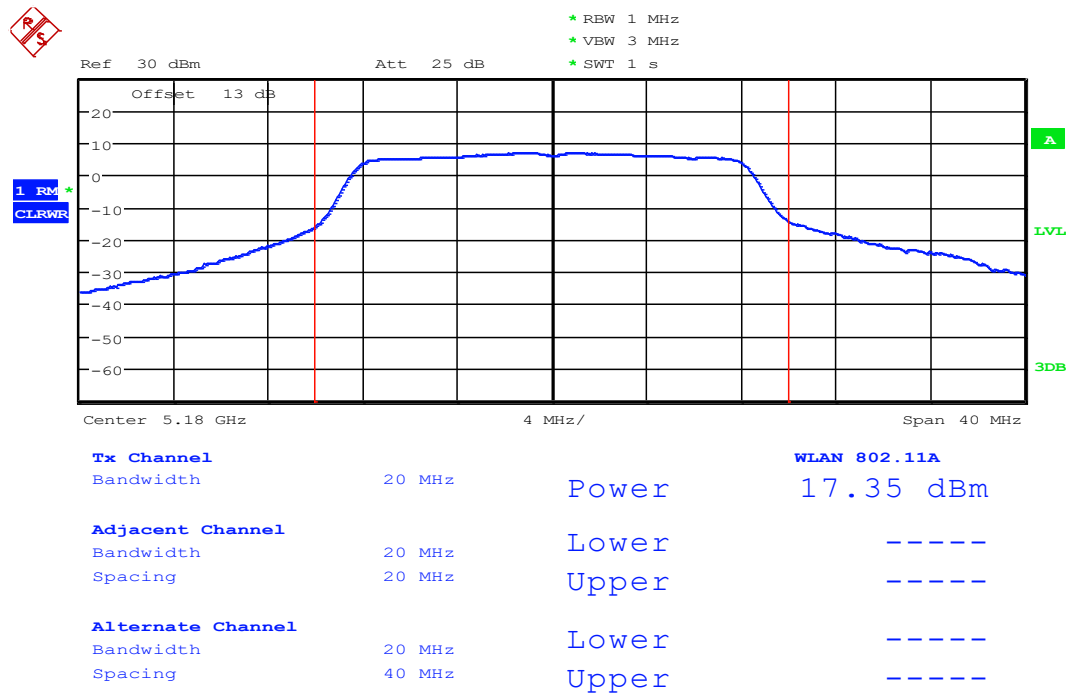
Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurement method SA-2 is made according to KDB 789033

Measurement Results:



Date: 10.SEP.2021 04:21:40

PIC.ANT10 11g 6Mbps CH56 Power

ANT9

802.11a mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11a	6Mbps	16.28	16.27	16.09	16.02	15.81	15.68	14.55	16.91	14.61

The data rate 6Mbps is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11n(HT20)	MCS0	15.11	14.56	13.74	14.05	14.52	15.67	15.00	15.30	14.78

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11ac(HT20)	MCS0	15.23	14.58	13.75	14.01	14.58	15.69	15.00	15.28	14.98

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	
802.11n(HT40)	MCS0	14.62	13.72	13.90	15.18	14.52	14.38	15.67	

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	
802.11ac(HT40)	MCS0	14.63	13.74	13.91	15.22	14.53	14.36	15.70	

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

Mode	Rate	Test Result (dBm)			
		Frequency (MHz)			
		5210	5290	5530	5610
802.11ac(HT80)	MCS0	14.26	14.34	14.38	15.63

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

ANT10

802.11a mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11a	6Mbps	17.35	16.97	16.60	16.68	16.44	16.22	14.13	15.85	15.39

The data rate 6Mbps is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11n(HT20)	MCS0	16.57	16.01	15.15	15.07	15.21	15.78	15.13	15.49	15.52

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11ac(HT20)	MCS0	16.57	15.97	15.11	15.05	15.24	15.87	15.15	15.47	15.57

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	
802.11n(HT40)	MCS0	16.11	15.07	14.93	15.42	14.82	14.66	15.62	

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	
802.11ac(HT40)	MCS0	16.18	15.13	14.92	15.42	14.92	14.65	15.66	

The data rate MCS0 is selected as worse condition, and the following cases are performed with

this condition.

802.11ac-HT80 mode

Mode	Rate	Test Result (dBm)			
		Frequency (MHz)			
		5210	5290	5530	5610
802.11ac(HT80)	MCS0	15.31	14.80	14.30	15.46

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

MIMO&CDD

The Test Result =the Total value of (ant9+ant10)+DG

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

The antenna gain is provided by the manufacturer.

ANT9 Frequency Gain(dBi)

5.1~5.5G 0.23

5.5~5.7G 0.23

5.7~5.8G 0.73

ANT10

5.1~5.5G 0.37

5.5~5.8G 0.25

Directional Gain 5.1-5.3G 3.31

5.5~5.7G 3.25

5.7~5.8G 3.50

802.11a mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11a	6Mbps	22.34	22.09	21.69	21.60	21.44	21.64	20.55	21.19	21.76

The data rate 6Mbps is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11n(HT20)	MCS0	21.90	21.30	20.50	20.66	21.07	21.93	21.17	21.73	20.90

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

Mode	Rate	Test Result (dBm)								
		Frequency (MHz)								
		5180	5200	5240	5260	5280	5320	5500	5580	5700
802.11ac(HT20)	MCS0	21.98	21.31	20.58	20.72	21.14	21.94	21.23	21.86	20.90

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	
802.11n(HT40)	MCS0	21.47	20.43	20.60	21.44	20.78	20.76	21.25	

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	
802.11ac(HT40)	MCS0	21.53	20.53	20.67	21.61	20.80	20.85	21.38	

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

Mode	Rate	Test Result (dBm)			
		Frequency (MHz)			
		5210	5290	5530	5610
802.11ac(HT80)	MCS0	20.82	20.83	20.52	21.93

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

The duty cycle of all mode are 98%.

Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

Measurement Results:

The measurements were performed separately in Chain 1, Chain 2, and MIMO (Chain 1+2), and only the worst cases are shown in this report.

ANT10

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	5.14	P
	5200 MHz	4.68	P
	5240 MHz	4.00	P
	5260 MHz	3.84	P
	5280 MHz	3.54	P
	5320 MHz	3.49	P
	5500 MHz	2.36	P
	5580 MHz	3.54	P
	5700 MHz	3.22	P
802.11ac HT20	5180 MHz	3.55	P
	5200 MHz	3.21	P
	5240 MHz	2.48	P
	5260 MHz	2.26	P
	5280 MHz	2.17	P
	5320 MHz	2.15	P
	5500 MHz	1.27	P
	5580 MHz	2.25	P
	5700 MHz	1.93	P
802.11ac HT40	5190 MHz	0.27	P
	5230 MHz	-0.59	P
	5270 MHz	-1.01	P
	5310 MHz	-1.11	P
	5510 MHz	-1.85	P
	5550 MHz	-1.44	P
	5670 MHz	-0.83	P
802.11ac	5210MHz	-3.35	P

HT80	5290MHz	-4.46	P
	5530MHz	-4.94	P
	5610MHz	-3.89	P

MIMO

Mode	Frequency	Power Spectral Density (dBm/MHz) ANT9	Power Spectral Density (dBm/MHz) ANT10	Power Spectral Density (dBm/MHz) ANT9+ANT10+DG	Conclusion
802.11a	5180 MHz	3.98	3.93	10.27	P
	5200 MHz	4.08	3.44	10.09	P
	5240 MHz	4.15	3.20	10.12	P
	5260 MHz	4.33	3.24	10.24	P
	5280 MHz	4.36	3.36	10.22	P
	5320 MHz	4.54	3.16	10.02	P
	5500 MHz	4.77	2.99	10.23	P
	5580 MHz	4.42	3.19	10.15	P
	5700 MHz	4.04	3.59	10.13	P
802.11ac HT20	5180 MHz	3.73	3.87	10.12	P
	5200 MHz	3.66	3.16	9.74	P
	5240 MHz	3.09	2.43	9.09	P
	5260 MHz	3.40	2.30	9.20	P
	5280 MHz	2.75	2.41	8.90	P
	5320 MHz	4.09	3.49	10.12	P
	5500 MHz	3.98	2.53	9.57	P
	5580 MHz	4.27	3.19	10.02	P
	5700 MHz	3.08	2.90	9.25	P
802.11ac HT40	5190 MHz	0.95	2.03	7.84	P
	5230 MHz	0.70	1.28	7.32	P
	5270 MHz	0.53	1.13	7.16	P
	5310 MHz	1.25	1.20	7.54	P
	5510 MHz	0.67	0.56	6.87	P
	5550 MHz	1.05	0.69	7.13	P
	5670 MHz	1.39	1.27	7.59	P
802.11ac HT80	5210MHz	-2.66	-1.66	4.19	P
	5290MHz	-2.89	-1.99	3.90	P
	5530MHz	-2.38	-2.75	3.70	P
	5610MHz	-1.73	-1.81	4.49	P
The Power Spectral Density =Total Value of (ANT9+ANT10) + DG					

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

The antenna gain is provided by the manufacturer.

ANT9 Frequency Gain(dBi)

5.1~5.5G 0.23

5.5~5.7G 0.23

5.7~5.8G 0.73

ANT10

5.1~5.5G 0.37

5.5~5.8G 0.25

Directional Gain 5.1-5.3G 3.31

5.5~5.7G 3.25

5.7~5.8G 3.50

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

The measurements were performed separately in Chain 1, Chain 2, and MIMO (Chain 1+2), and only the worst cases are shown in this report.

Mode	Frequency	Occupied 26dB Bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.1	24.20	P
	5200 MHz	Fig.2	24.35	P
	5240 MHz	Fig.3	23.70	P
	5260 MHz	Fig.4	23.80	P
	5280 MHz	Fig.5	23.30	P
	5320 MHz	Fig.6	23.75	P
	5500 MHz	Fig.7	24.05	P
	5580 MHz	Fig.8	24.05	P
802.11ac HT20	5700 MHz	Fig.9	24.20	P
	5180 MHz	Fig.10	24.00	P
	5200 MHz	Fig.11	23.90	P
	5240 MHz	Fig.12	24.25	P
	5260 MHz	Fig.13	23.85	P
	5280 MHz	Fig.14	23.80	P
	5320 MHz	Fig.15	24.35	P
	5500 MHz	Fig.16	25.15	P
802.11ac HT40	5580 MHz	Fig.17	25.20	P
	5700 MHz	Fig.18	23.95	P
	5190 MHz	Fig.19	40.72	P
	5230 MHz	Fig.20	41.36	P
	5270 MHz	Fig.21	41.28	P
	5310 MHz	Fig.22	41.20	P
	5510 MHz	Fig.23	41.44	P
802.11ac HT80	5550 MHz	Fig.24	41.44	P
	5670 MHz	Fig.25	41.36	P
	5210MHz	Fig.26	82.88	P
	5290MHz	Fig.27	82.88	P

	5530MHz	Fig.28	83.04	P
	5610MHz	Fig.29	82.56	P

Conclusion: PASS

Test graphs as below:

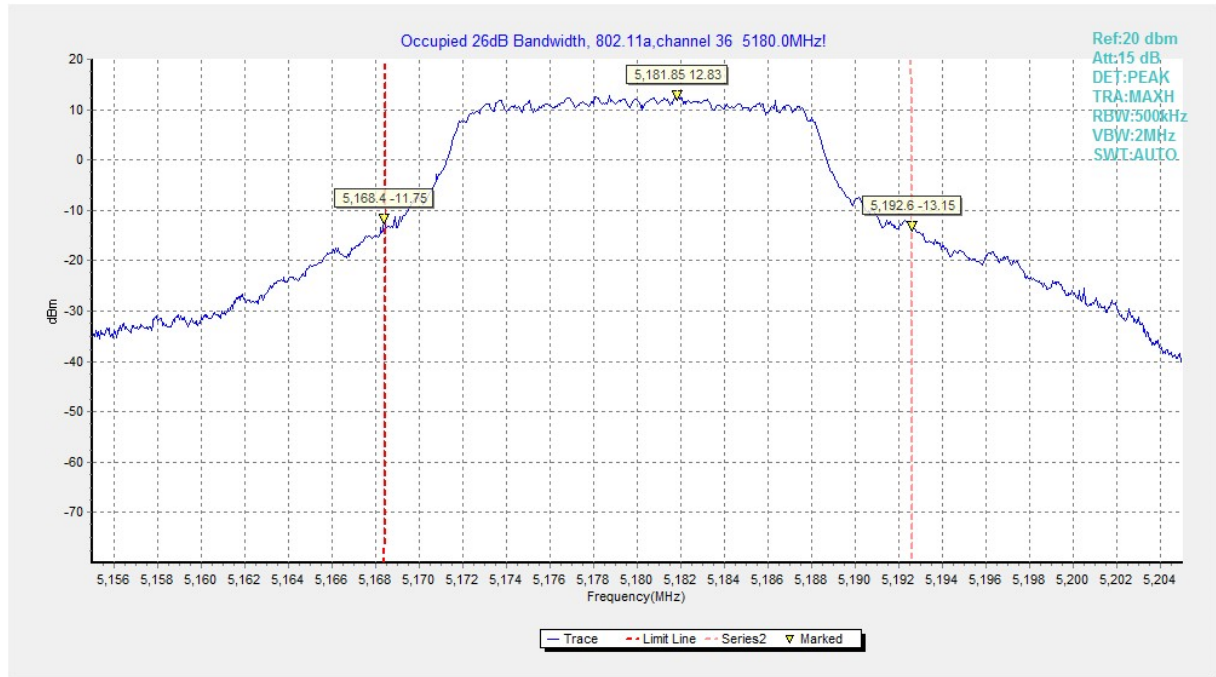


Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

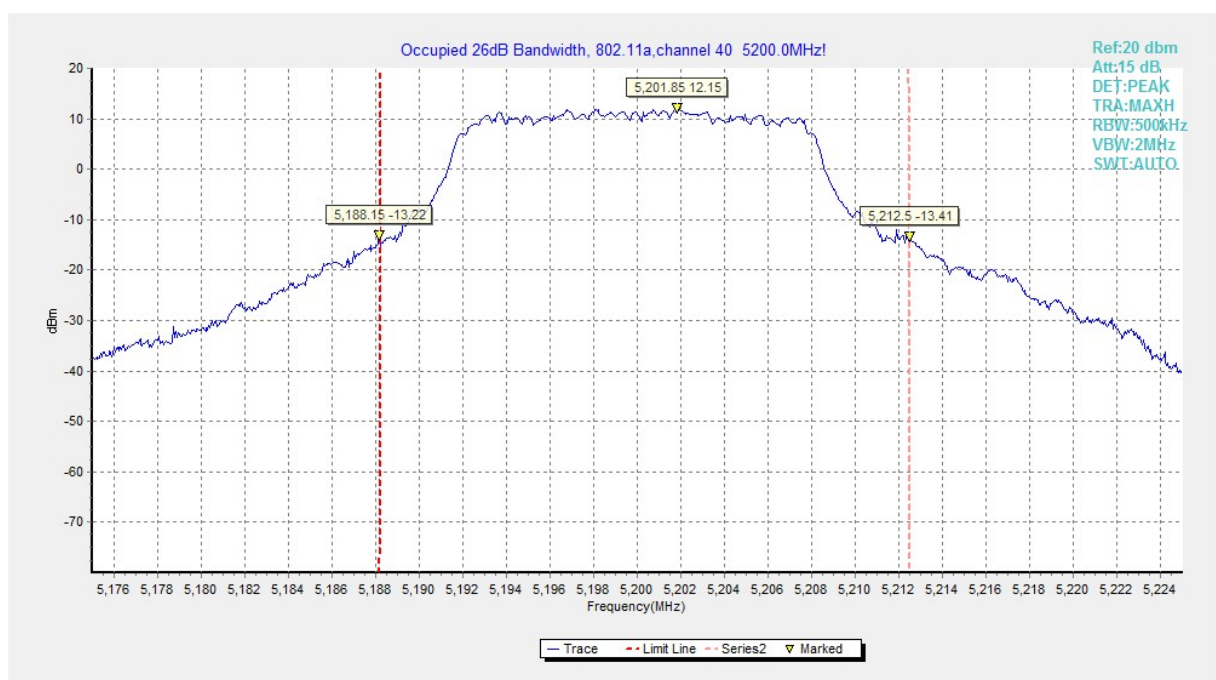


Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

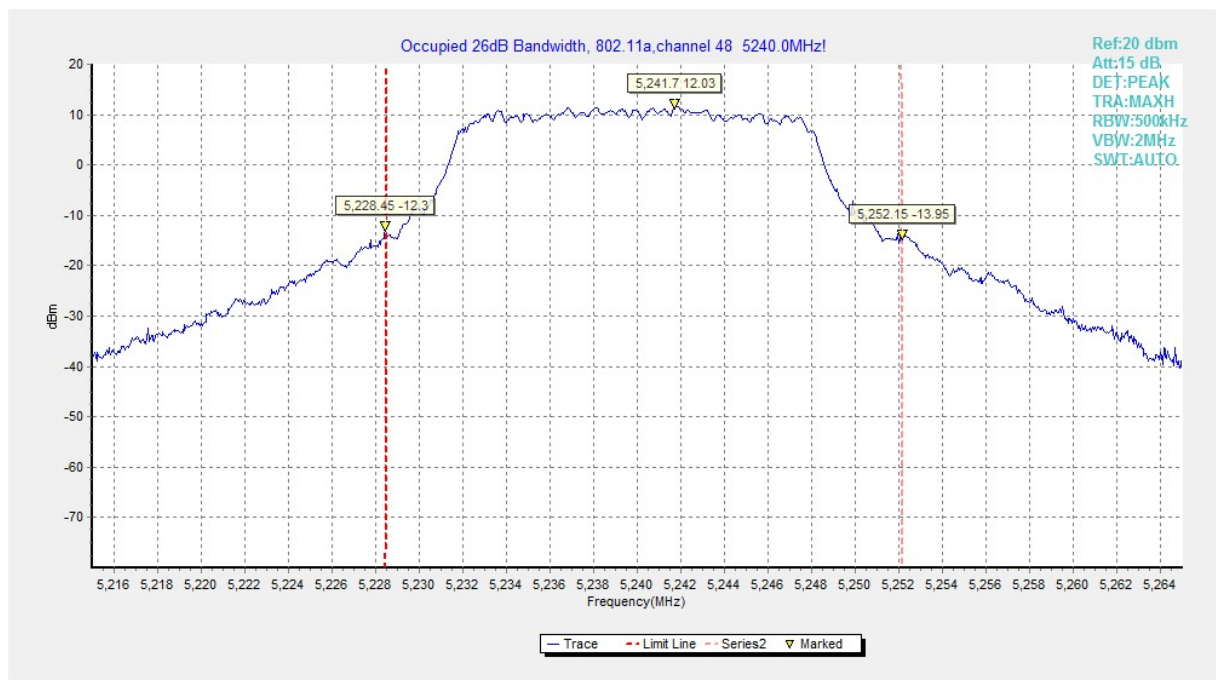


Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

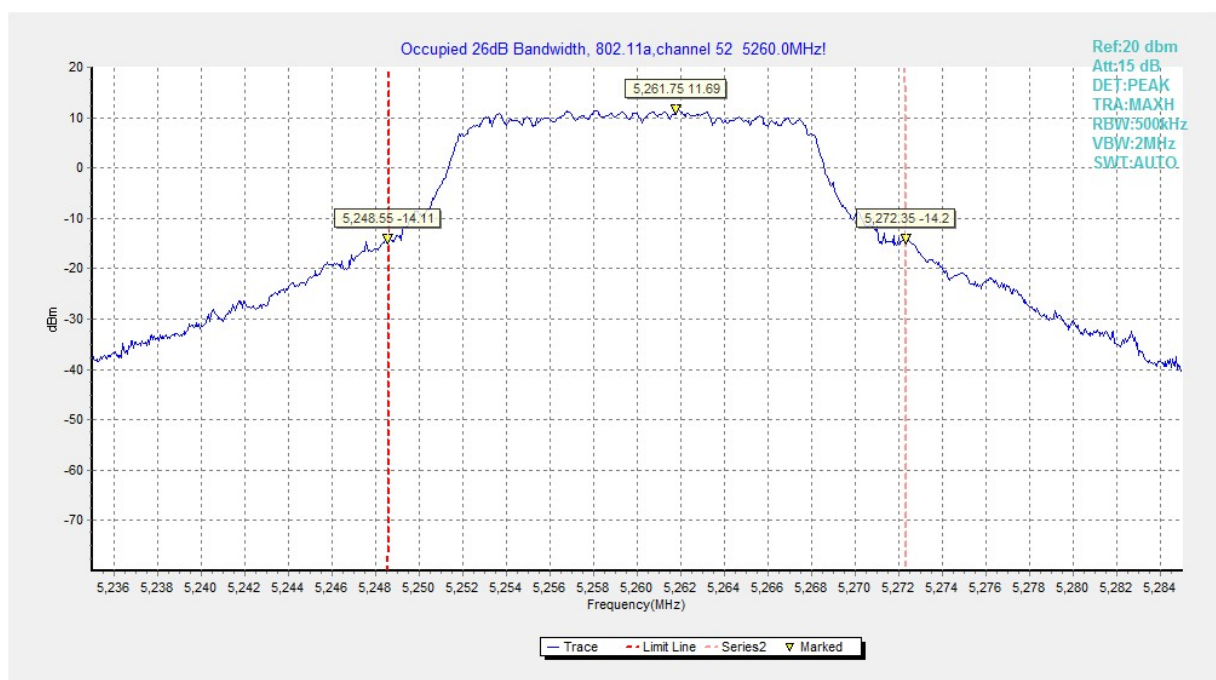


Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

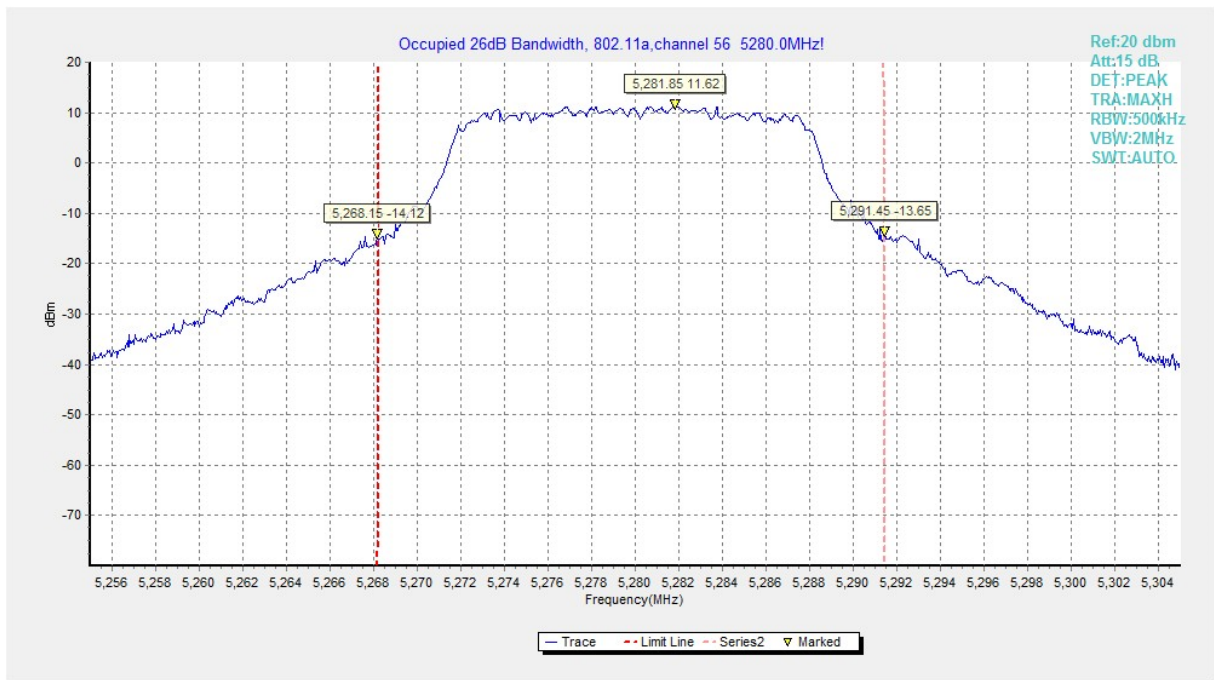


Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

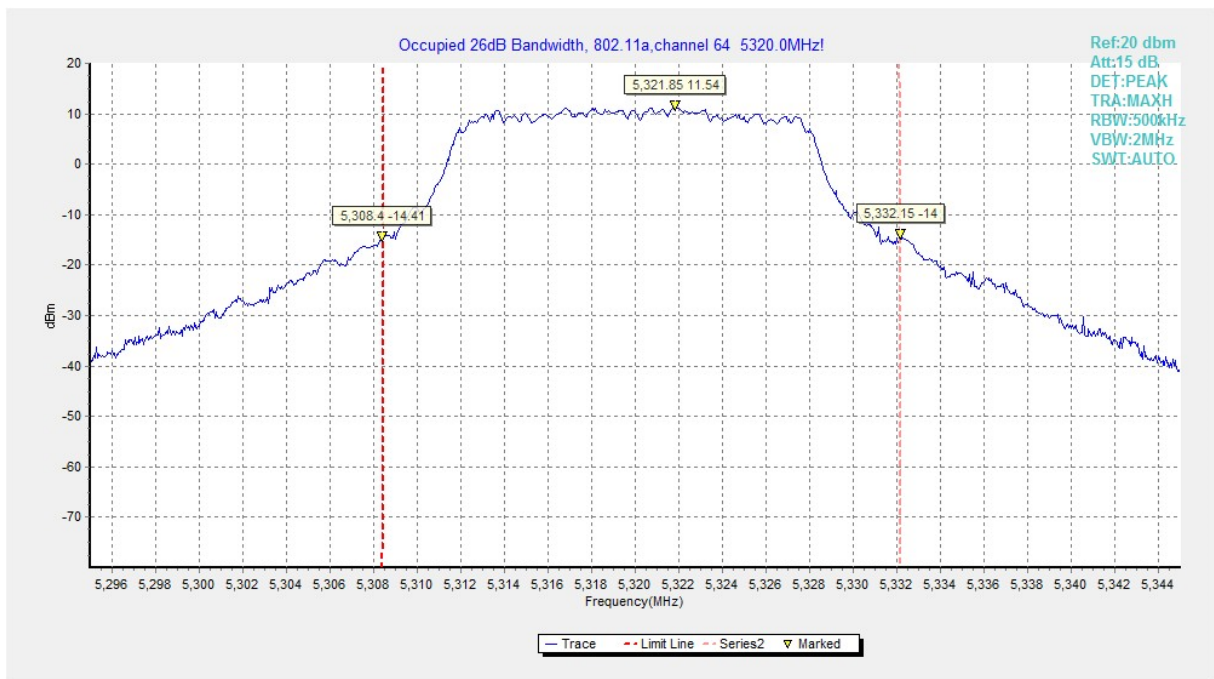


Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

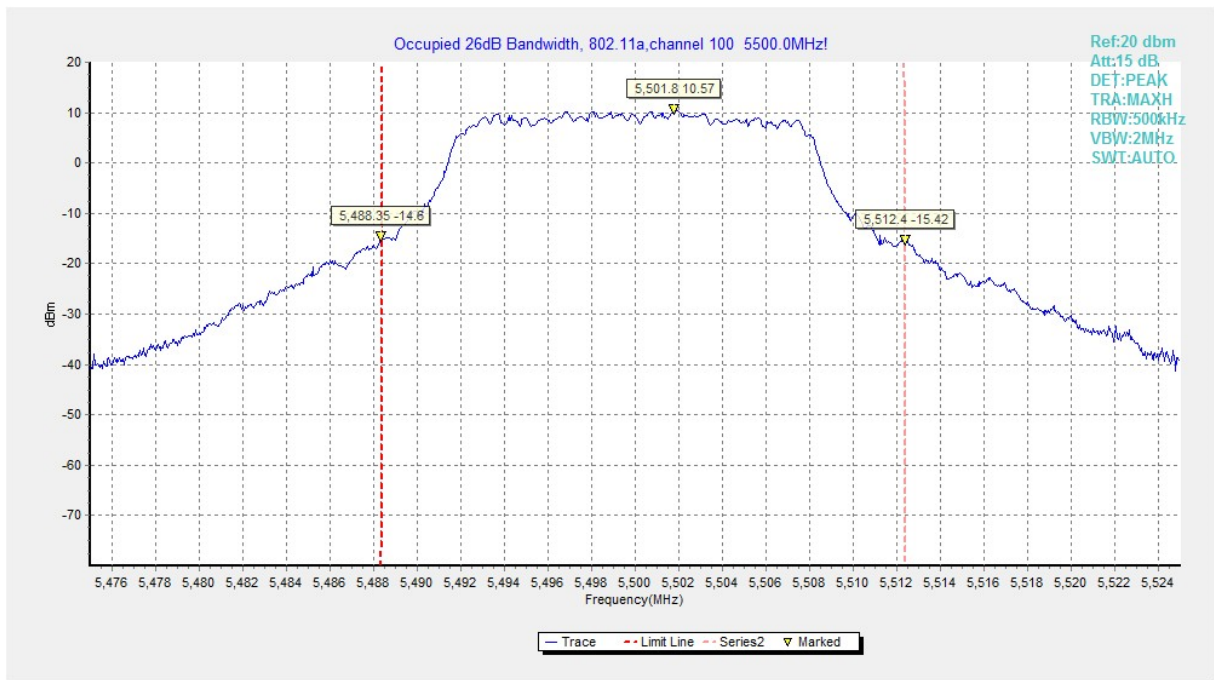


Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)

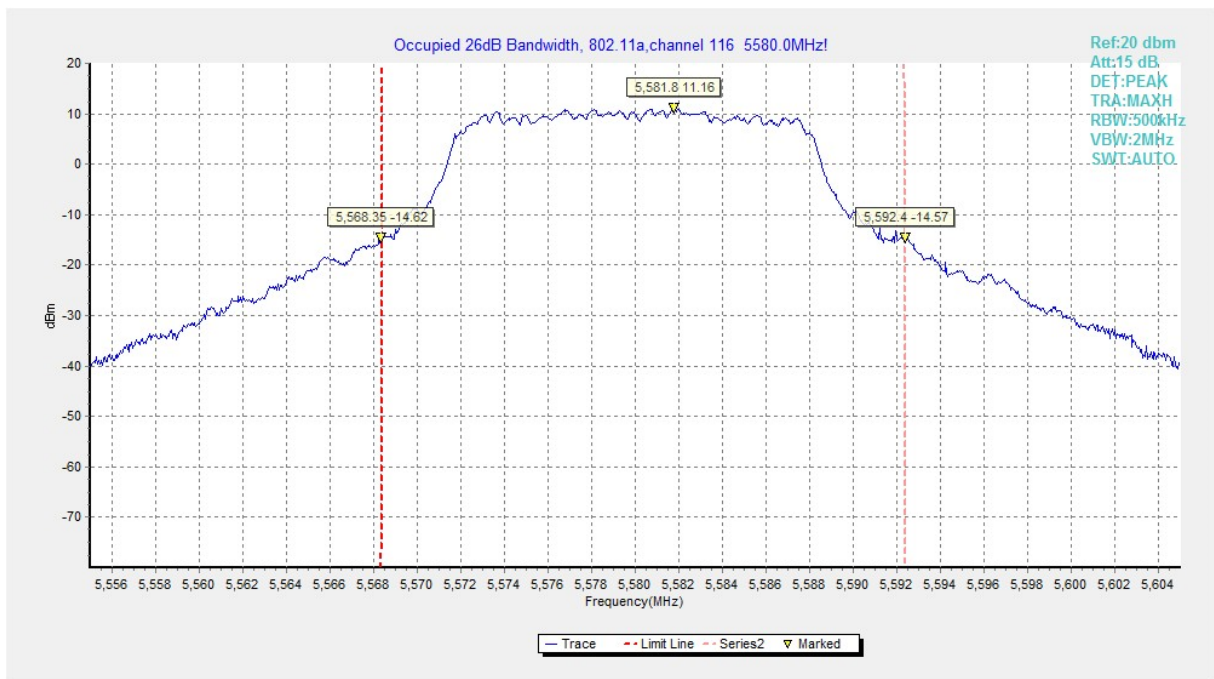


Fig.8 Occupied 26dB Bandwidth (802.11a, 5580MHz)

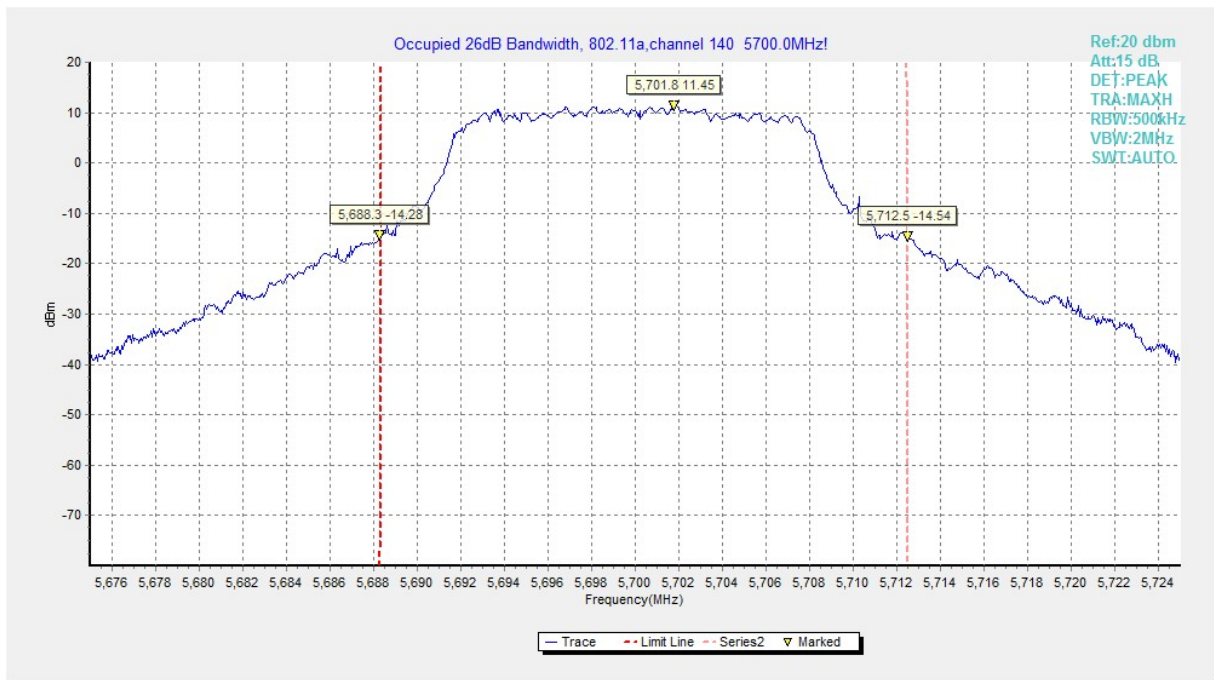


Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)

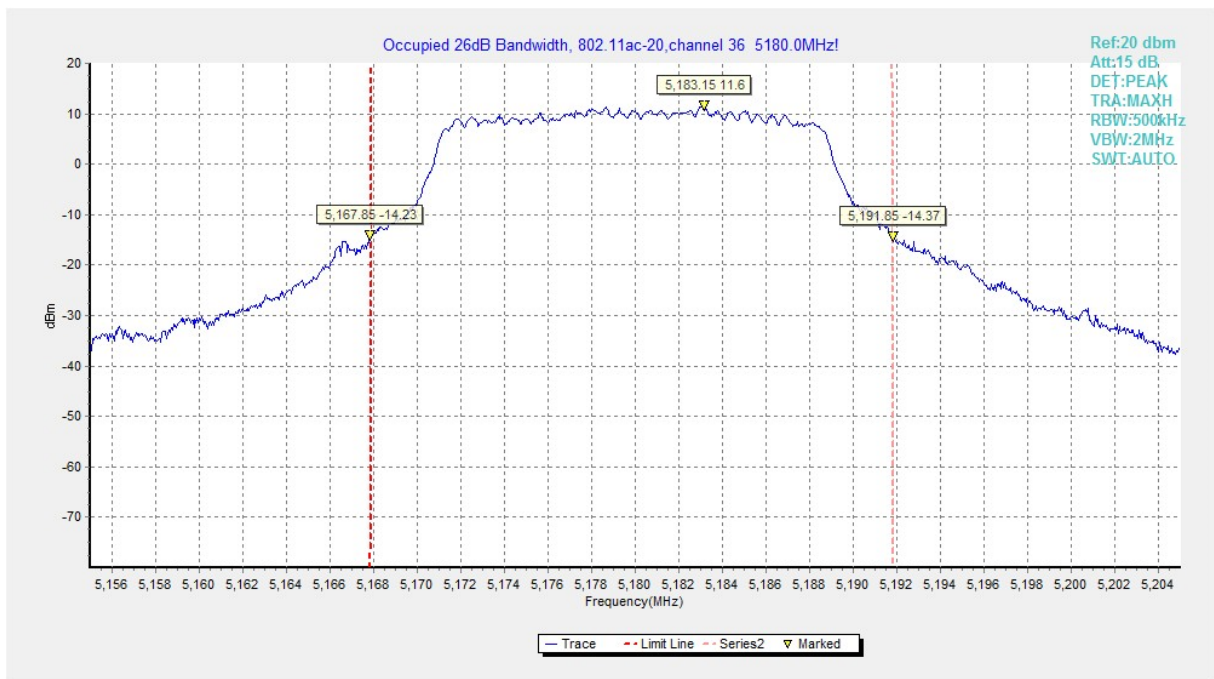


Fig.10 Occupied 26dB Bandwidth (802.11ac-HT20, 5180MHz)

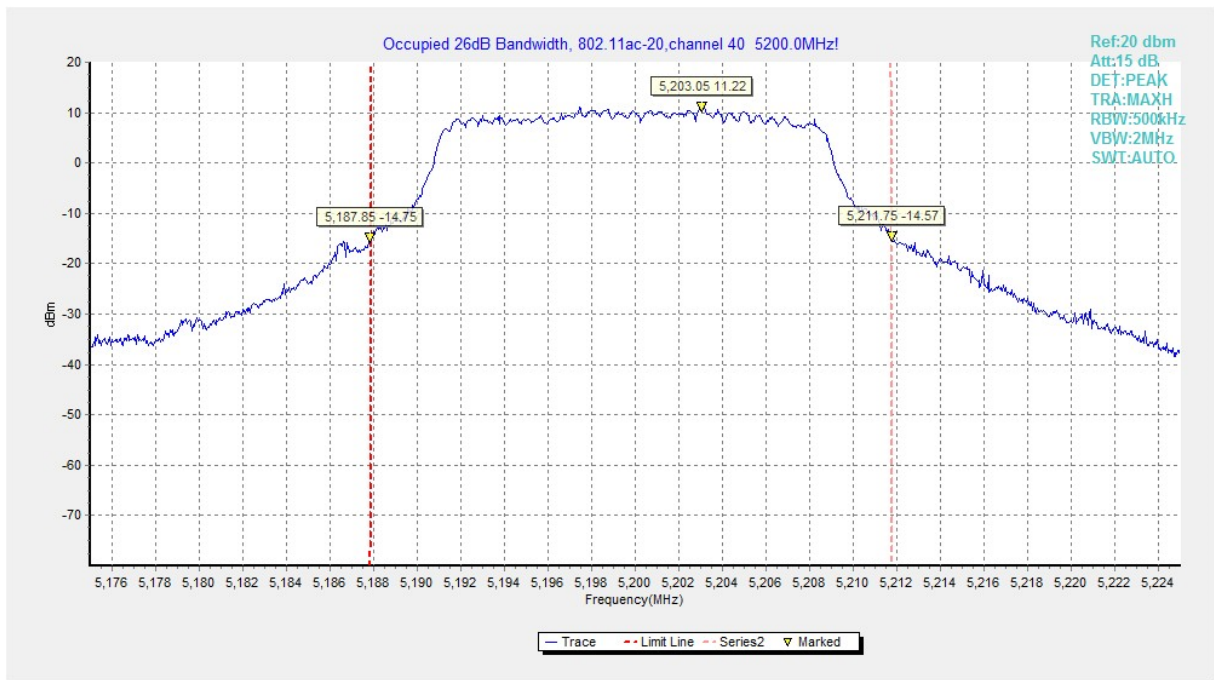


Fig.11 Occupied 26dB Bandwidth (802.11ac-HT20, 5200MHz)

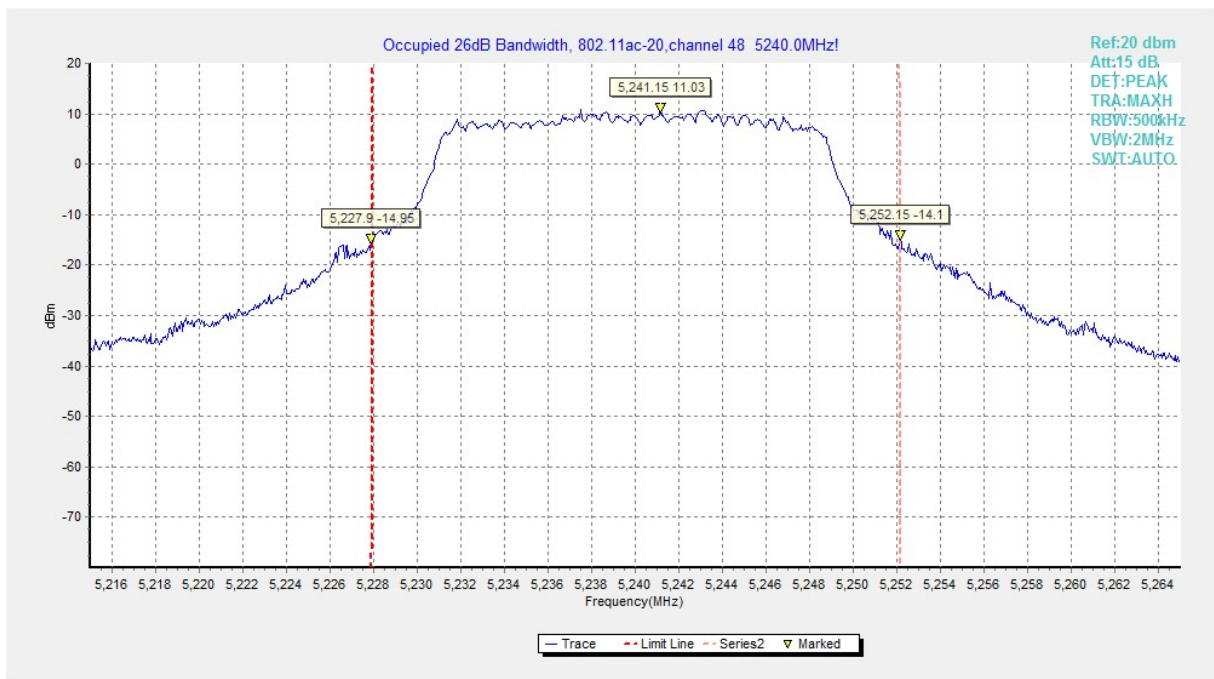


Fig.12 Occupied 26dB Bandwidth (802.11ac-HT20, 5240MHz)

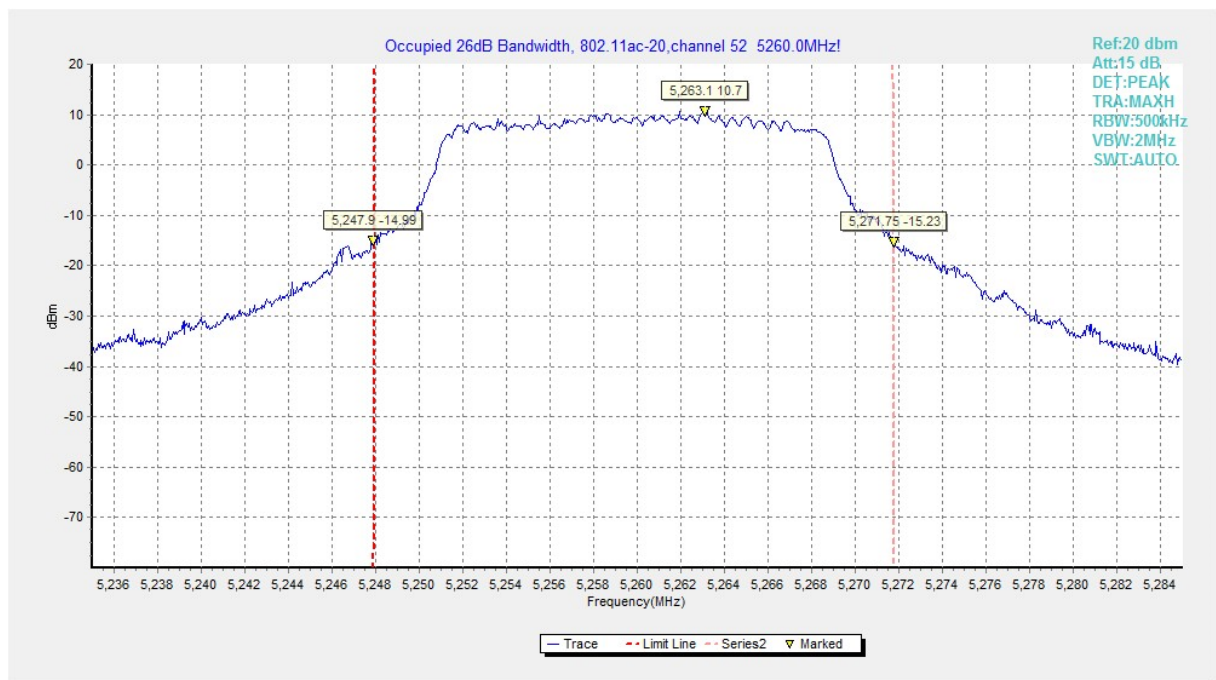


Fig.13 Occupied 26dB Bandwidth (802.11ac-HT20, 5260MHz)

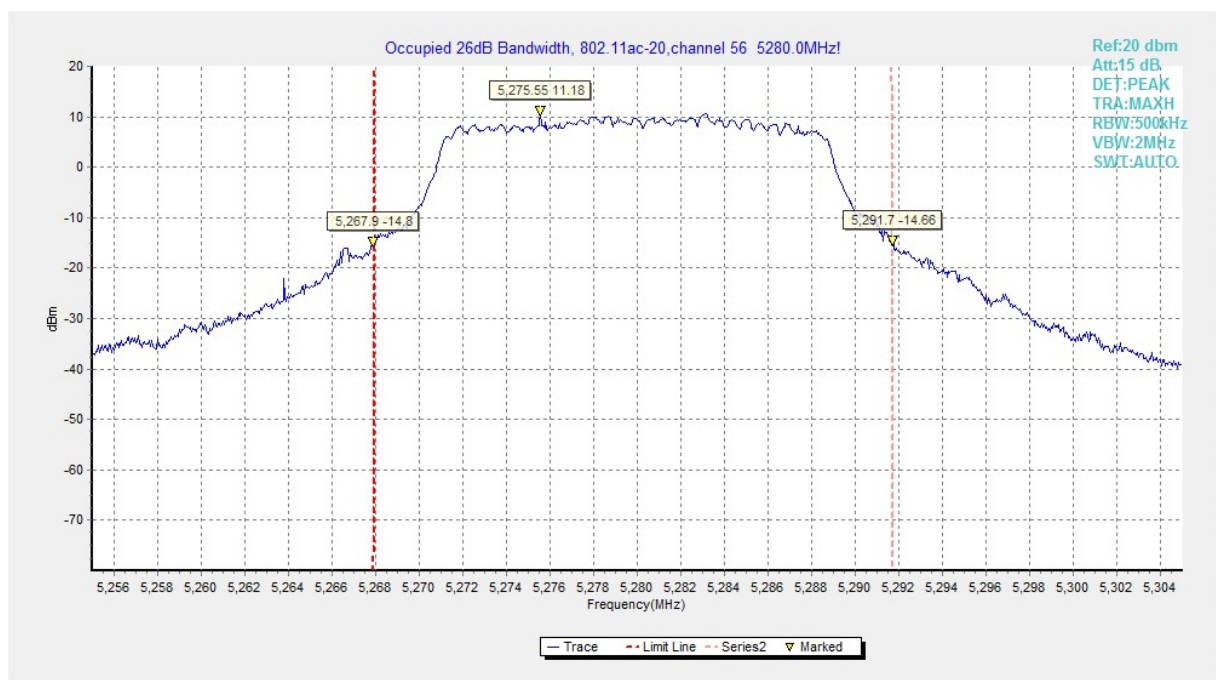


Fig.14 Occupied 26dB Bandwidth (802.11ac-HT20, 5280MHz)

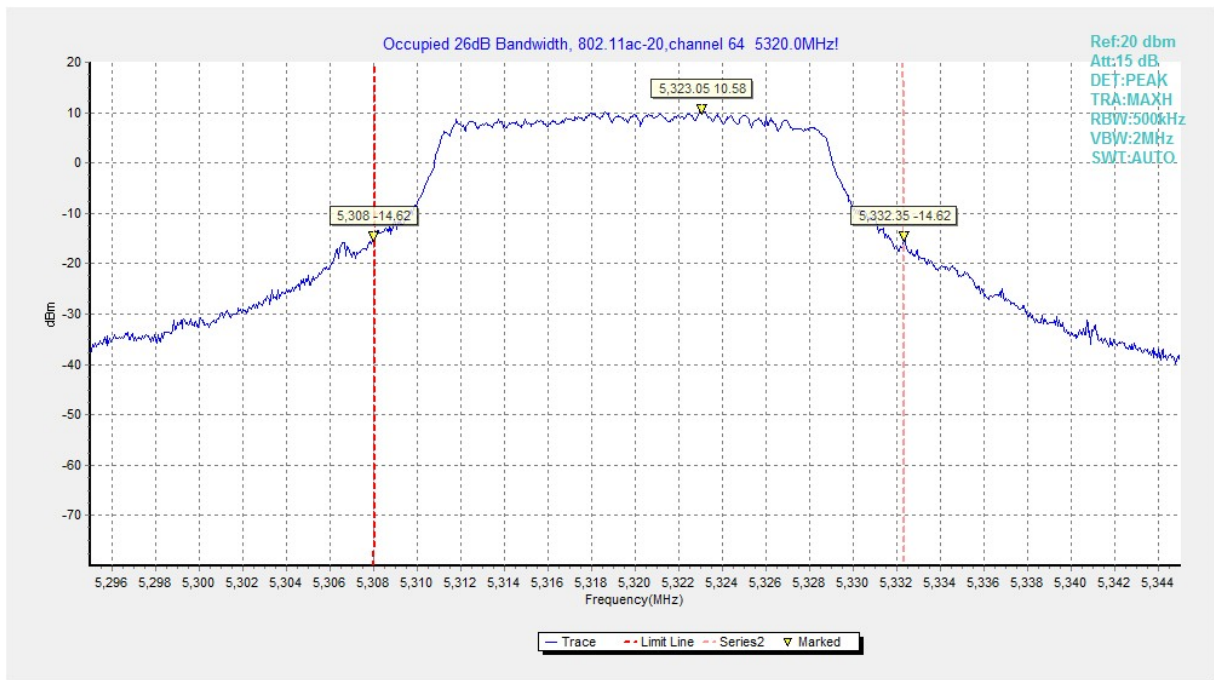


Fig.15 Occupied 26dB Bandwidth (802.11ac-HT20, 5320MHz)

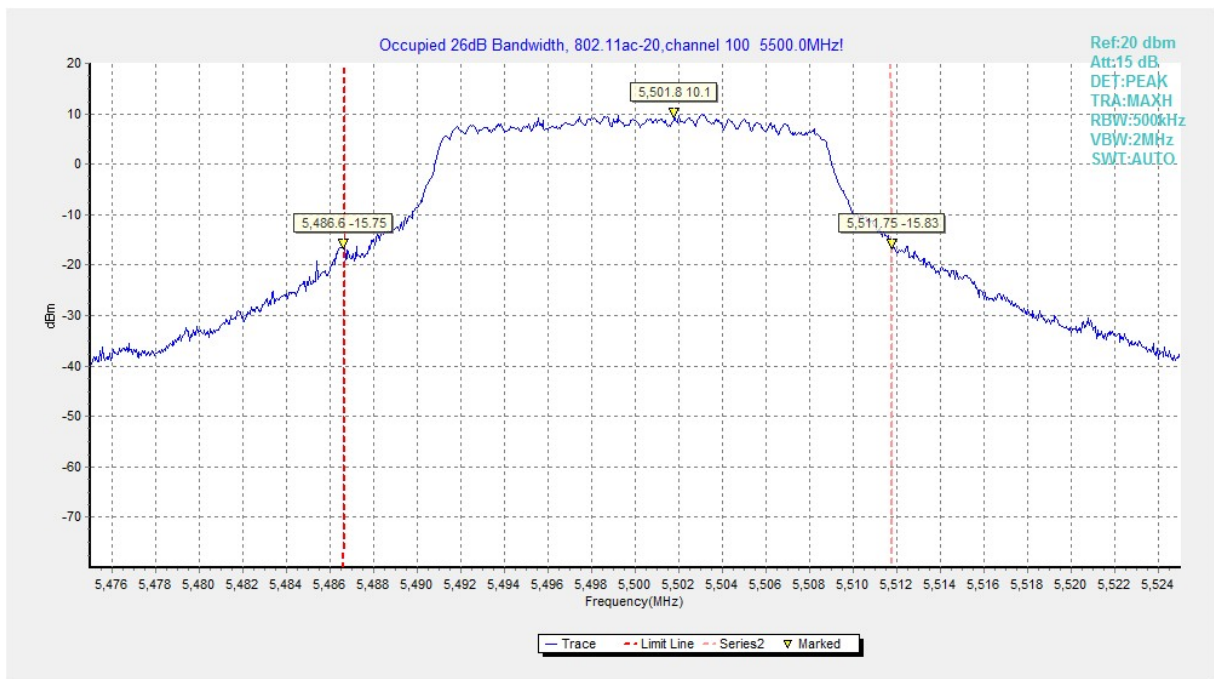


Fig.16 Occupied 26dB Bandwidth (802.11ac-HT20, 5500MHz)

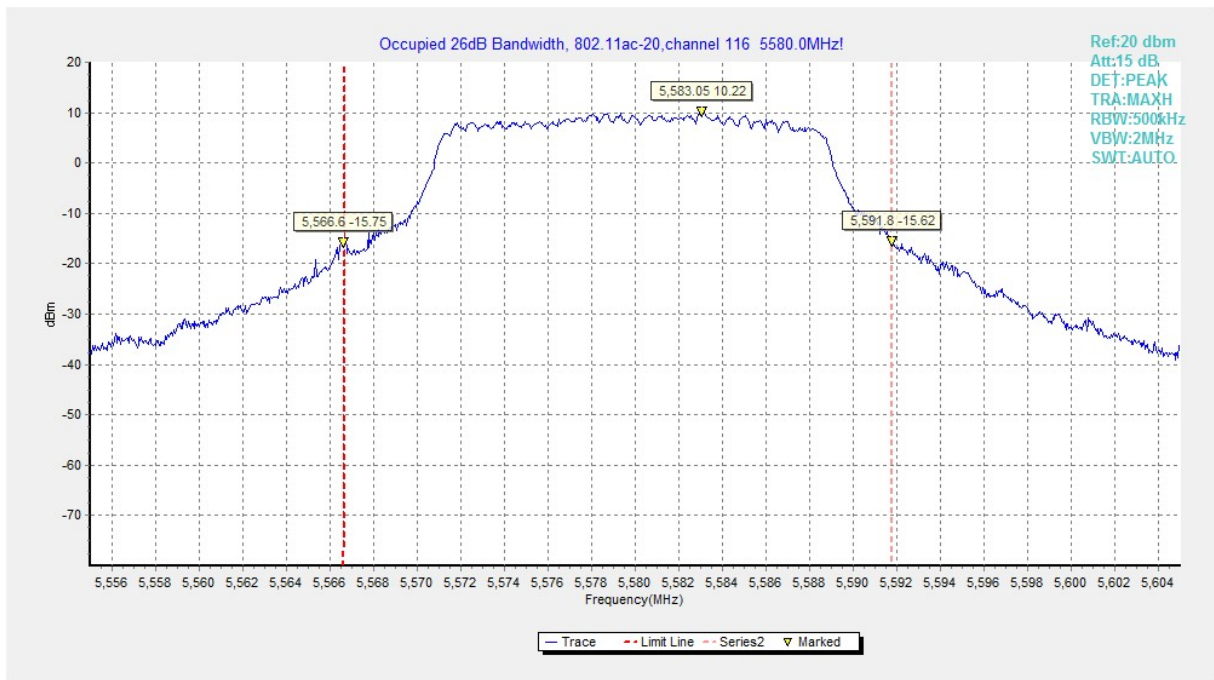


Fig.17 Occupied 26dB Bandwidth (802. 11ac-HT20, 5580MHz)

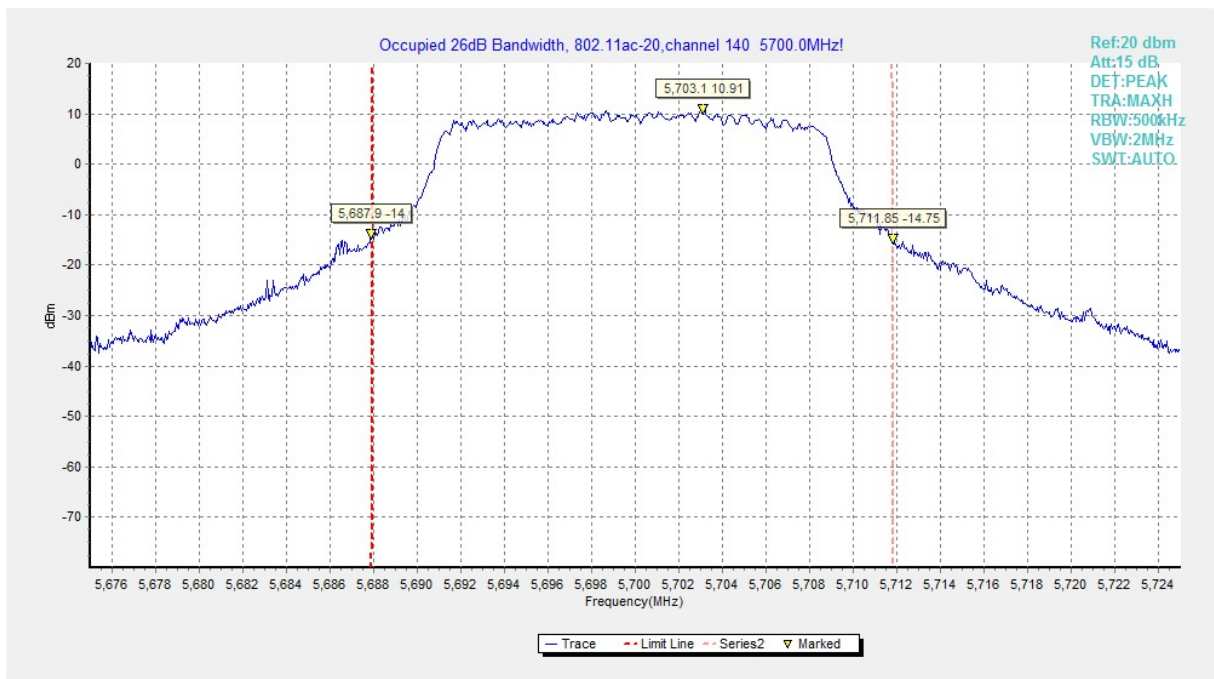


Fig.18 Occupied 26dB Bandwidth (802. 11ac-HT20, 5700MHz)

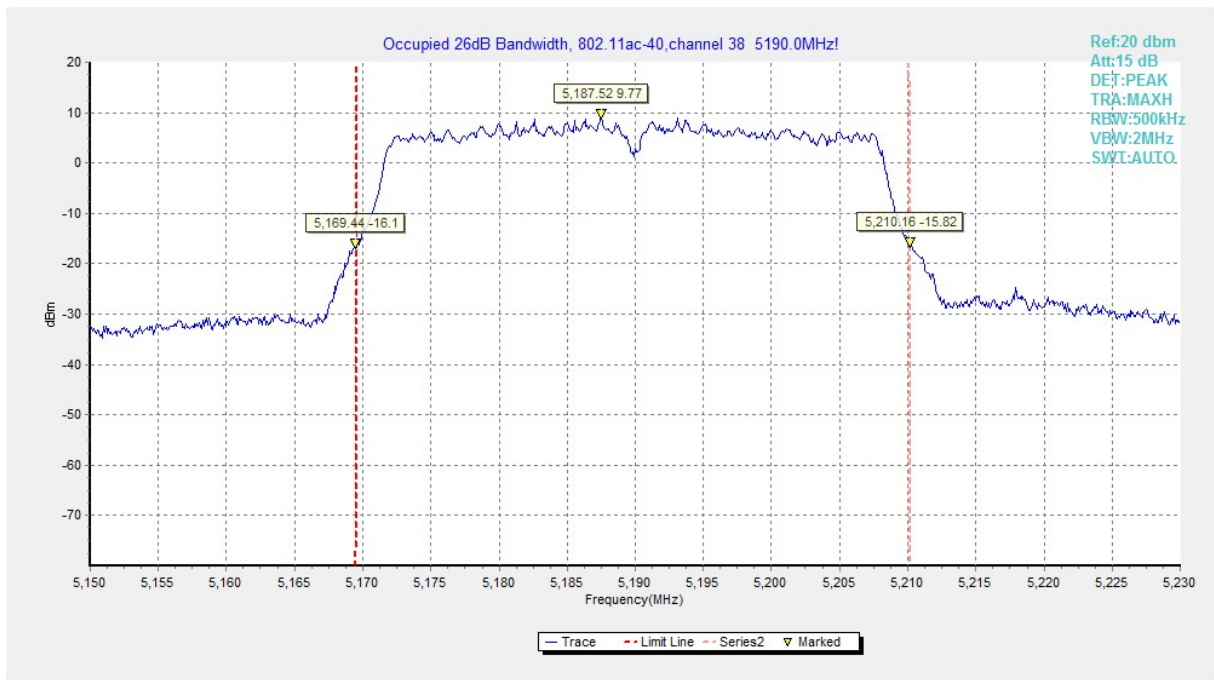


Fig.19 Occupied 26dB Bandwidth (802.11ac-HT40, 5190MHz)

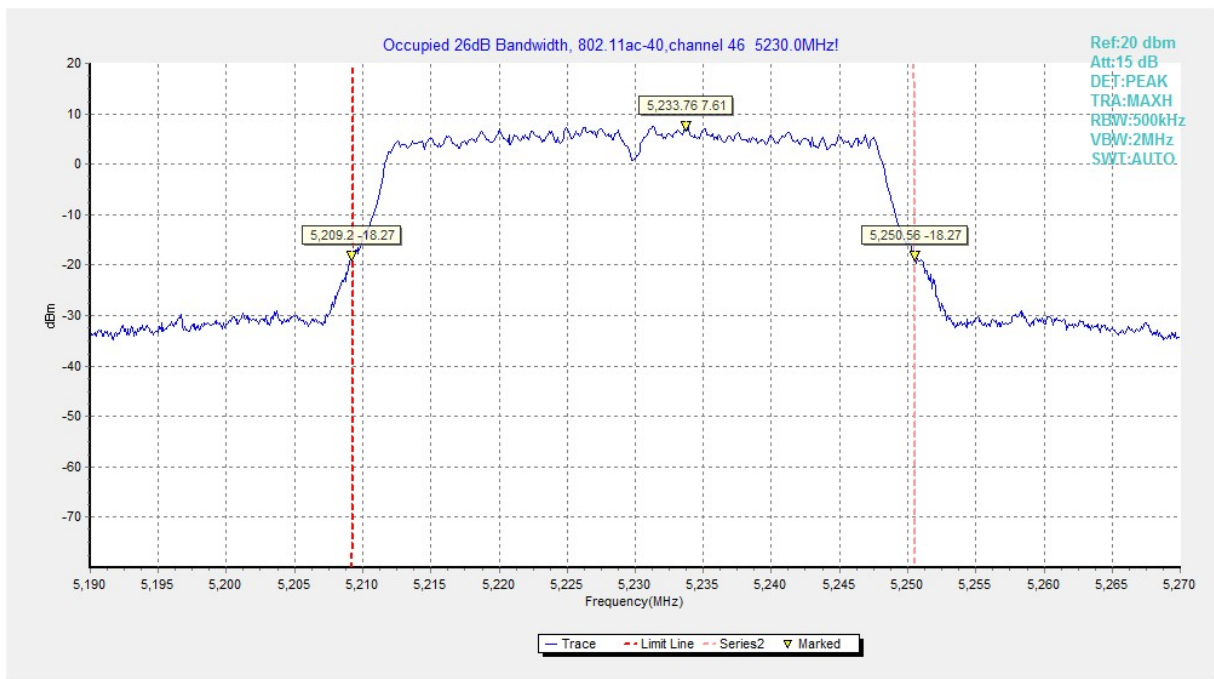


Fig.20 Occupied 26dB Bandwidth (802.11ac-HT40, 5230MHz)