



**FCC PART 15E
TEST REPORT
No. I18N01496-RLAN**

for

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Smartphone

cp3705A

with

Hardware Version: P1

Software Version: 3705A.MPCS.181120.1D

FCC ID: R38YL3705A

Issued Date: 2018-11-26

Designation Number: CN1210

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 SAICT.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I18N01496-RLAN	Rev.0	1st edition	2018-11-26

CONTENTS

CONTENTS	3
1. TEST LATORATORY	4
1.1. TESTING LOCATION	4
1.2. TESTING ENVIRONMENT	4
1.3. PROJECT DATA	4
1.4. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION	5
2.2. MANUFACTURER INFORMATION	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT	6
3.2. INTERNAL IDENTIFICATION OF EUT	6
3.3. INTERNAL IDENTIFICATION OF AE	6
3.4. GENERAL DESCRIPTION	6
4. REFERENCE DOCUMENTS	7
4.1. DOCUMENTS SUPPLIED BY APPLICANT	7
4.2. REFERENCE DOCUMENTS FOR TESTING	7
5. SUMMARY OF TEST RESULTS	8
5.1. SUMMARY OF TEST RESULTS	8
5.2. STATEMENTS	8
5.3. TERMS USED IN THE RESULT TABLE	8
5.4. LABORATORY ENVIRONMENT	9
6. TEST EQUIPMENTS UTILIZED	10
7. MEASUREMENT UNCERTAINTY	11
ANNEX A: MEASUREMENT RESULTS	12
A.1. MEASUREMENT METHOD	12
A.2. MAXIMUM OUTPUT POWER	13
A.3. PEAK POWER SPECTRAL DENSITY (CONDUCTED)	16
A.4. OCCUPIED 26DB BANDWIDTH(CONDUCTED)	18
A.5. OCCUPIED 6dB BANDWIDTH(CONDUCTED)	29
A.6. 99% OCCUPIED BANDWIDTH(CONDUCTED)	33
A.7. BAND EDGES COMPLIANCE	44
A.8. TRANSMITTER SPURIOUS EMISSION	53
A.9. RADIATED SPURIOUS EMISSIONS < 30MHZ	74
A.10. AC POWER LINE CONDUCTED EMISSION	75
A.11. FREQUENCY STABILITY	78
A.12. POWER CONTROL	78

1. TEST LATORATORY

1.1. Testing Location

Location: Shenzhen Academy of Information and Communications Technology
Address: Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong Province ,China
Postal Code: 518026
Telephone: +86(0)755-33322000
Fax: +86(0)755-33322001

1.2. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

1.3. Project data

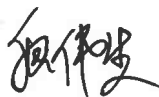
Testing Start Date: 2018-10-18
Testing End Date: 2018-11-23

1.4. Signature



An Ran

(Prepared this test report)



Tang Weisheng

(Reviewed this test report)



Zhang Bojun

(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
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District, Shenzhen
Contact Person Yentl Chen
E-Mail Chenyanting@yulong.com
Telephone: +86 15927320221
Fax: /

2.2. Manufacturer Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address: Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan
District, Shenzhen
Contact Person Yentl Chen
E-Mail Chenyanting@yulong.com
Telephone: +86 15927320221
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smartphone
Model Name	cp3705A
Market Name	/
RLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz -5725MHz~5850MHz
RLAN Protocol	IEEE 802.11a,802.11n-HT20/40,802.11ac-VHT20/40/80
Type of modulation	OFDM
Antenna Type	Integrated
Antenna Gain	0.23dBi
Power Supply	3.85V DC by Battery
FCC ID	R38YL3705A
Condition of EUT as received	No abnormality in appearance

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
EUT1	860667040001195	P1	3705A.MPCS.181120.1D	2018-10-17

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

3.3. Internal Identification of AE

AE ID*	Description	Mode	Manufacturer
AE1	Battery	Li-ion Polymer	Tianjin Lishen

*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 with integrated antenna and inbuilt battery. 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.

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.

Reference	Title	Version
FCC Part15	FCC CFR 47,Part 15,Subpart C FCC CFR 47,Part 15,Subpart E	2017
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB789033	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	V02r01

5. SUMMARY OF TEST RESULTS

5.1. Summary of Test Results

No.	Test cases	Sub-clause of Part15E	Verdict
0	Maximum Output Power	15.407(a)	P
1	Power Spectral Density	15.407(a)	P
2	Occupied 26dB Bandwidth	15.407(a)	P
3	Occupied 6dB Bandwidth	15.407(e)	P
4	99% Occupied Bandwidth	15.407	P
5	Band edge compliance	15.407	P
6	Radiated Spurious Emissions	15.407	P
7	AC Power line Conducted	15.207	P
8	Frequency Stability	15.407	P
9	Transmit Power Control	15.407	NA

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

5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacture as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropic radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

5.4. Laboratory Environment

Semi-anechoic Chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz

Conducted shielded room did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-10000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

Fully-anechoic Chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2019-01-17	1 year
2	Power Sensor	U2021XA	MY55430013	Agilent	2019-01-31	1 year
3	Test Receiver	ESCI	100702	Rohde & Schwarz	2019-06-20	1 year
4	LISN	ENV216	102067	Rohde & Schwarz	2018-07-18	1 year

Radiated test system

NO.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2019-05-02	3 years
2	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021-05-17	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2019-04-05	3 years
4	Test Receiver	ESR7	101676	Rohde & Schwarz	2018-11-29	1 year
5	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2019-05-21	1 year
6	Chamber	FACT3-2.0	1285	ETS-Lindgren	2020-07-20	3 years
7	Antenna	QSH-SL-18-26-S-20	17013	Q-par	2020-01-15	3 years
8	Antenna	QSH-SL-26-40-K-20	17014	Q-par	2020-01-11	3 years

Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	10.01.00
3	EMC32	Rohde & Schwarz	10.01.00

EUT is Qualcomm engineering software provided by the customer to control the transmitting signal.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

7. Measurement Uncertainty

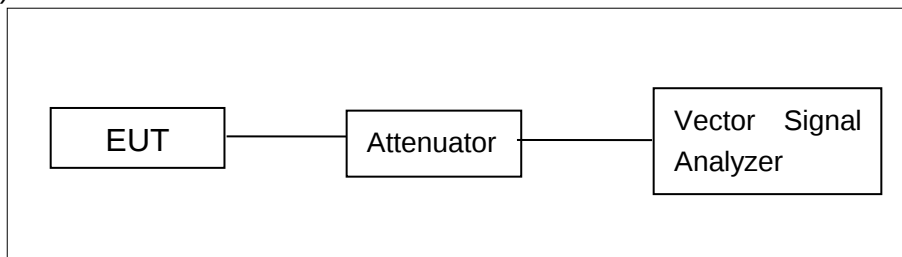
Test Name	Uncertainty	
1. RF Output Power - Conducted	$\pm 1.32\text{dB}$	
2. Power Spectral Density - Conducted	$\pm 2.32\text{dB}$	
3. Occupied channel bandwidth - Conducted	$\pm 66\text{Hz}$	
4 Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f \leq 1\text{GHz}$	$\pm 1.41\text{dB}$
	$1\text{GHz} \leq f \leq 7\text{GHz}$	$\pm 1.92\text{dB}$
	$7\text{GHz} \leq f \leq 13\text{GHz}$	$\pm 2.31\text{dB}$
	$13\text{GHz} \leq f \leq 26\text{GHz}$	$\pm 2.61\text{dB}$
5. Transmitter Spurious Emission - Radiated	$9\text{kHz} \leq f \leq 30\text{MHz}$	$\pm 1.84\text{dB}$
	$30\text{MHz} \leq f \leq 1\text{GHz}$	$\pm 4.90\text{dB}$
	$1\text{GHz} \leq f \leq 18\text{GHz}$	$\pm 5.12\text{dB}$
	$18\text{GHz} \leq f \leq 40\text{GHz}$	$\pm 4.66\text{dB}$
6. AC Power line Conducted Emission	$150\text{kHz} \leq f \leq 30\text{MHz}$	$\pm 3.10\text{dB}$

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

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.

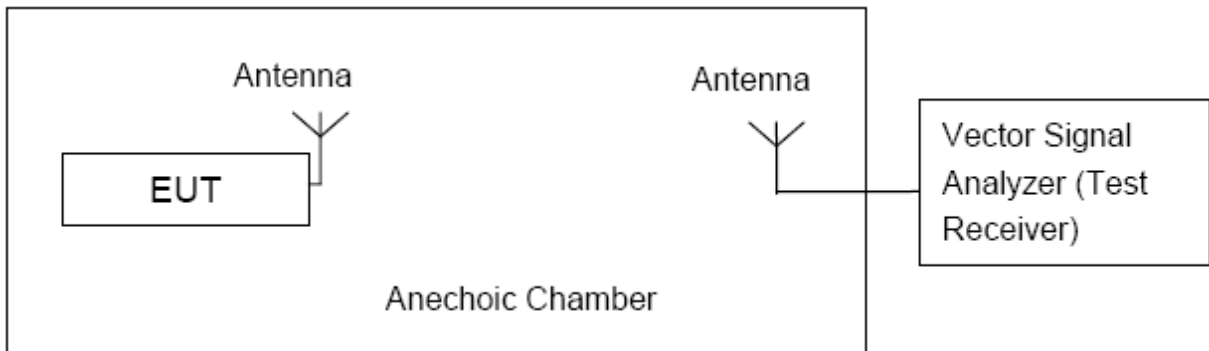


Radiated Emission Measurements

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

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

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



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	24
	5250MHz~5350MHz	24 or 11+10logB
	5470MHz~5725MHz	24 or 11+10logB
	5725MHz~5850MHz	30

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

Measurement of method :See ANSI C63.10-2013-Clause 12.3.3.2

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Measurement Results:

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.2GHz Band (UNII-1)	802.11a	CH 36	5180	14.93	P
		CH 40	5200	14.81	P
		CH 48	5240	14.65	P
	802.11n-HT20	CH 36	5180	14.88	P
		CH 40	5200	14.73	P
		CH 48	5240	14.55	P
	802.11n-HT40	CH 38	5190	13.87	P
		CH 46	5230	13.63	P
	802.11ac-VHT20	CH 36	5180	14.86	P
		CH 40	5200	14.69	P
		CH 48	5240	14.42	P
	802.11ac-VHT40	CH 38	5190	14.18	P
		CH 46	5230	14.15	P
	802.11ac-VHT80	CH 42	5210	12.85	P

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.3GHz Band (UNII-2A)	802.11a	CH 52	5260	14.97	P
		CH 56	5280	14.89	P
		CH 64	5320	14.63	P
	802.11n-HT20	CH 52	5260	14.80	P
		CH 56	5280	14.65	P
		CH 64	5320	14.56	P
	802.11n-HT40	CH 54	5270	14.08	P

	802.11ac-VHT20	CH 62	5310	14.23	P
		CH 52	5260	14.69	P
		CH 56	5280	14.45	P
		CH 64	5320	14.21	P
	802.11ac-VHT40	CH 54	5270	13.55	P
		CH 62	5310	13.51	P
	802.11ac-VHT80	CH 58	5290	12.93	P

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.5GHz Band (UNII-2C)	802.11a	CH 100	5500	15.05	P
		CH 116	5580	14.93	P
		CH 140	5700	14.89	P
	802.11n-HT20	CH 100	5500	14.43	P
		CH 116	5580	14.55	P
		CH 140	5700	14.70	P
	802.11n-HT40	CH 102	5510	14.75	P
		CH 110	5550	14.71	P
		CH 134	5670	14.42	P
	802.11ac-VHT20	CH 100	5500	14.53	P
		CH 116	5580	14.58	P
		CH 140	5700	14.75	P
	802.11ac-VHT40	CH 102	5510	14.17	P
		CH 110	5550	14.09	P
		CH 134	5670	13.90	P
	802.11ac-VHT80	CH 106	5530	12.88	P
		CH 122	5610	12.85	P

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.8GHz Band (UNII-3)	802.11a	CH 149	5745	15.68	P
		CH 157	5785	15.64	P
		CH 165	5825	15.59	P
	802.11n-HT20	CH 149	5745	15.60	P
		CH 157	5785	15.58	P
		CH 165	5825	15.49	P
	802.11n-HT40	CH 151	5755	15.09	P
		CH 159	5795	15.17	P
	802.11ac-VHT20	CH 149	5745	15.76	P
		CH 157	5785	15.71	P
		CH 165	5825	15.61	P
	802.11ac-VHT40	CH 151	5755	15.25	P

		CH 159	5795	15.13	P
	802.11ac-VHT80	CH 155	5775	12.95	P

Note:

Worst-case data rates as provided by the client were: 54Mbps (802.11a), MCS7 (802.11n), MCS8 (802.11ac). 802.11a, 802.11n-HT40 and 802.11ac-VHT80 modes are selected as the worst-case.

The following cases and test graphs are performed with this condition.

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11dBm/MHz(FCC)
		10dBm/MHz EIRP(IC)
	5250MHz~5350MHz	11dBm/MHz
	5470MHz~5725MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500KHz

The PPSD measurement method SA-1 is made according to KDB 789033.

Measurement Results:

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180MHz(Ch36)	6.65	P
	5200MHz(Ch40)	7.13	P
	5240MHz(Ch48)	6.21	P
	5260MHz(Ch52)	6.30	P
	5280MHz(Ch56)	5.93	P
	5320MHz(Ch64)	5.52	P
	5500MHz(Ch100)	6.39	P
	5580MHz(Ch116)	5.80	P
	5700MHz(Ch140)	4.68	P

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11n HT40	5190MHz(Ch38)	2.55	P
	5230MHz(Ch46)	2.73	P
	5270MHz(Ch54)	2.07	P
	5310MHz(Ch62)	2.19	P
	5510MHz(Ch102)	3.15	P
	5550MHz(Ch110)	2.50	P
	5670MHz(Ch134)	1.13	P

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11ac VHT80	5210MHz(Ch42)	-0.84	P
	5290MHz(Ch58)	-1.65	P
	5530MHz(Ch106)	-1.17	P
	5610MHz(Ch122)	-1.62	P

5.8GHz Band (UNII-3)

U-NII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Conclusion
5.8GHz Band (UNII-3)	802.11a	CH 149	5745	4.32	P
		CH 157	5785	3.53	P
		CH 165	5825	2.77	P
	802.11n-HT40	CH 151	5755	0.49	P
		CH 159	5795	0.43	P
	802.11ac-VHT80	CH 155	5775	-4.4	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

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

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth(MHz)		Conclusion
802.11a	5180MHz(Ch36)	Fig.1	23.25	P
	5200MHz(Ch40)	Fig.2	24.60	P
	5240MHz(Ch48)	Fig.3	22.75	P
	5260MHz(Ch52)	Fig.4	23.00	P
	5280MHz(Ch56)	Fig.5	23.25	P
	5320MHz(Ch64)	Fig.6	23.05	P
	5500MHz(Ch100)	Fig.7	23.05	P
	5580MHz(Ch116)	Fig.8	23.35	P
	5700MHz(Ch140)	Fig.9	23.25	P
802.11n HT40	5190MHz(Ch38)	Fig.10	44.08	P
	5230MHz(Ch46)	Fig.11	44.08	P
	5270MHz(Ch54)	Fig.12	44.24	P
	5310MHz(Ch62)	Fig.13	44.00	P
	5510MHz(Ch102)	Fig.14	44.08	P
	5550MHz(Ch110)	Fig.15	44.48	P
	5670MHz(Ch134)	Fig.16	43.68	P
802.11 ac VHT80	5210MHz(Ch42)	Fig.17	84.32	P
	5290MHz(Ch58)	Fig.18	84.96	P
	5530MHz(Ch106)	Fig.19	83.84	P
	5610MHz(Ch122)	Fig.20	83.52	P

Conclusion: PASS

Test graphs as below:

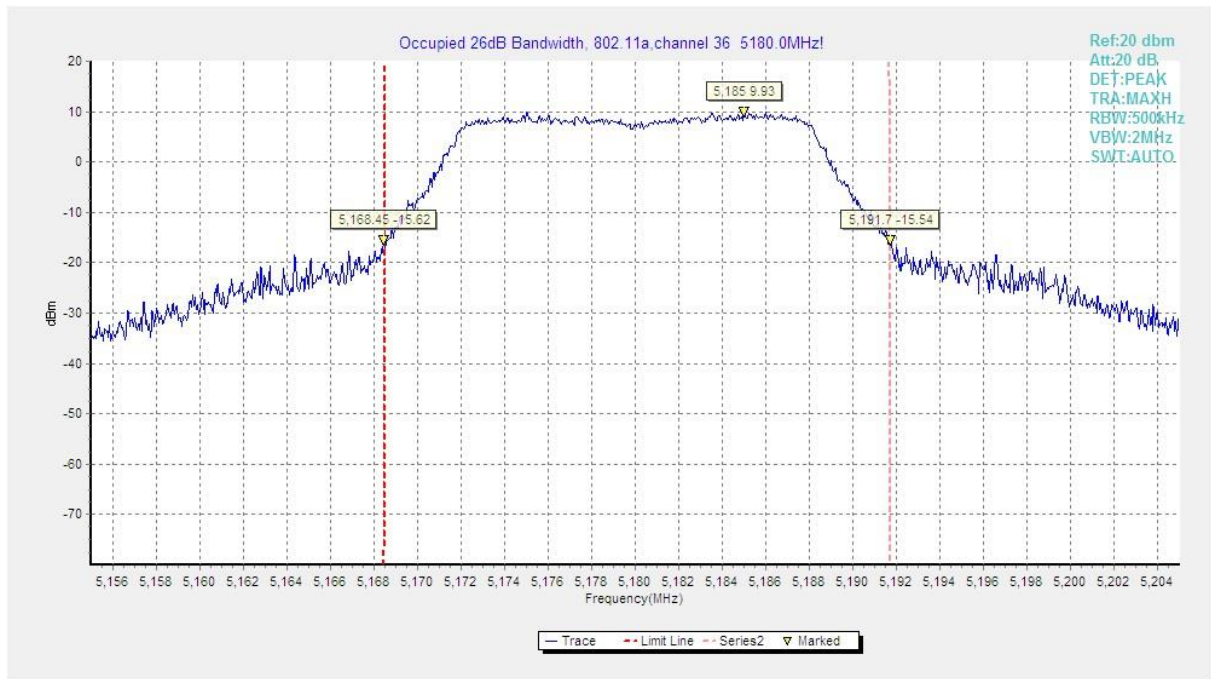


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

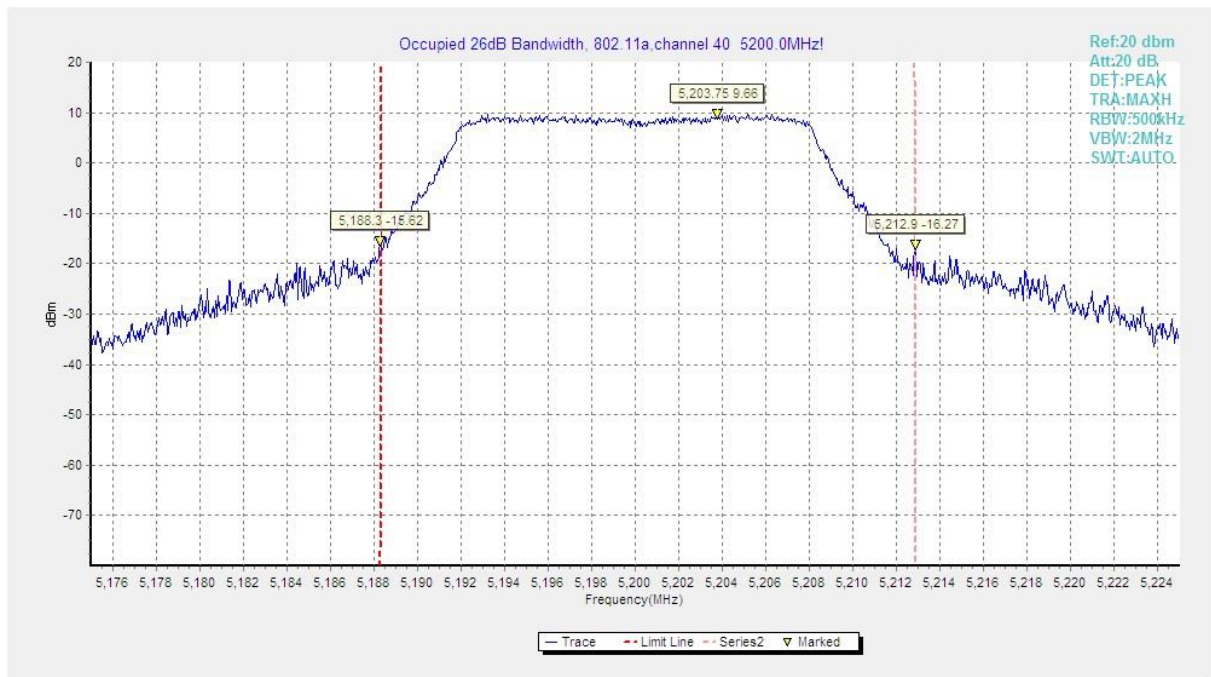


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

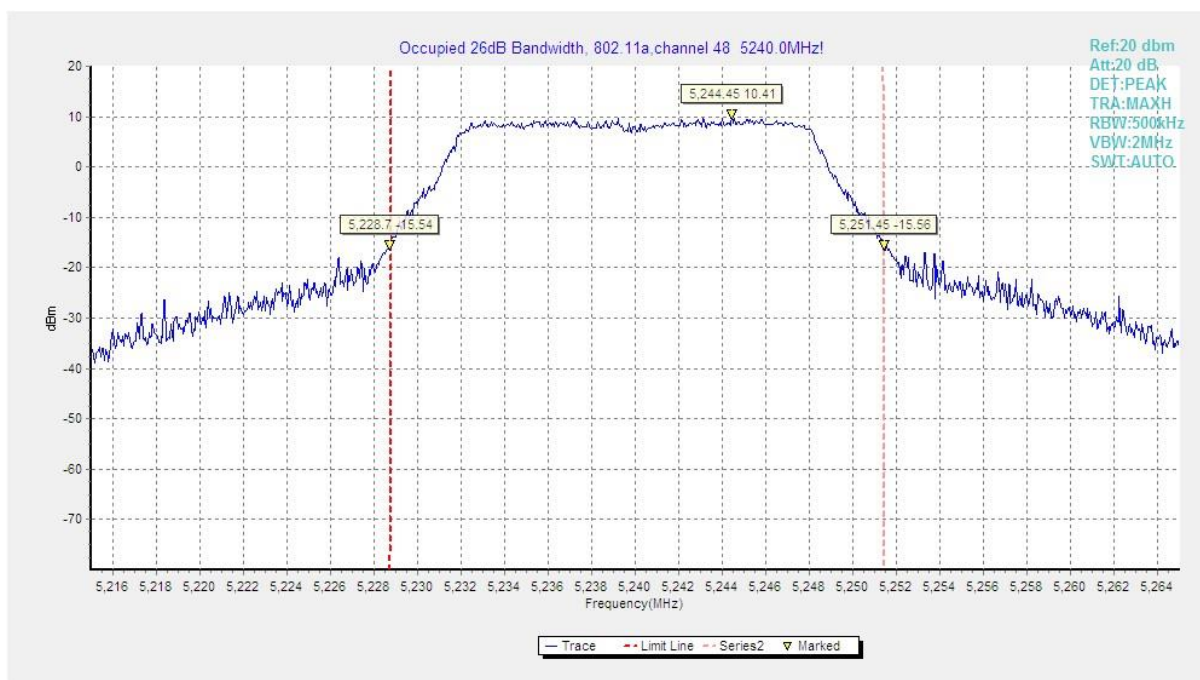


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

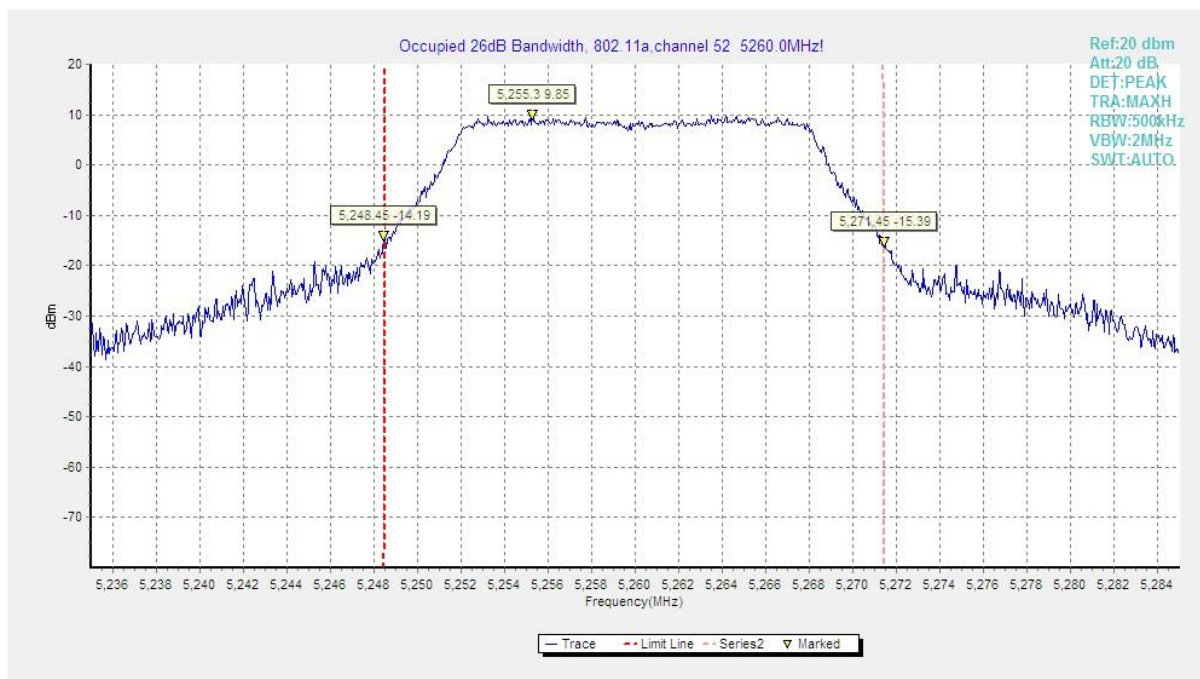


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

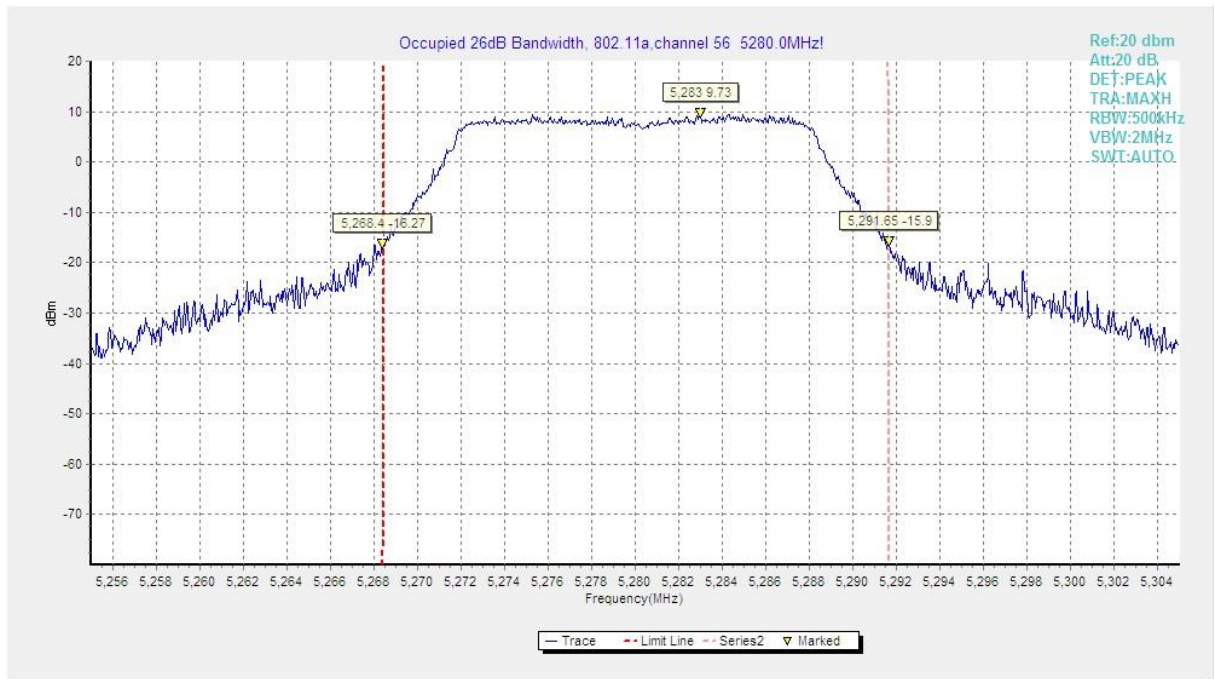


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

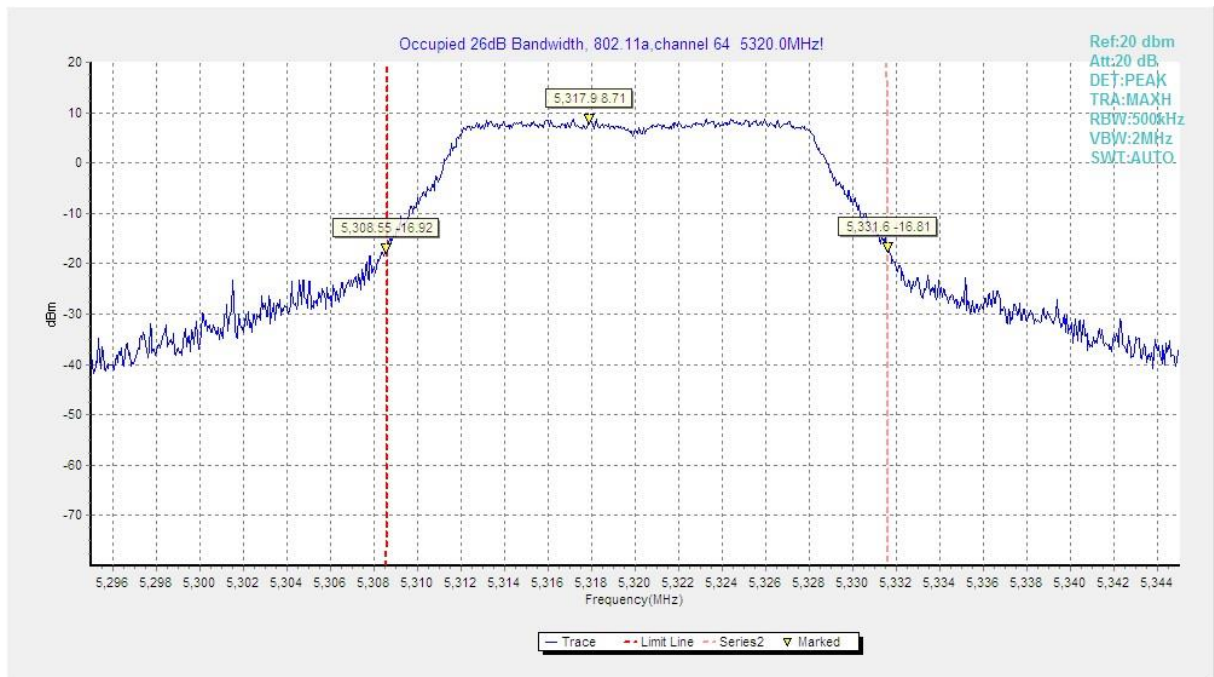


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

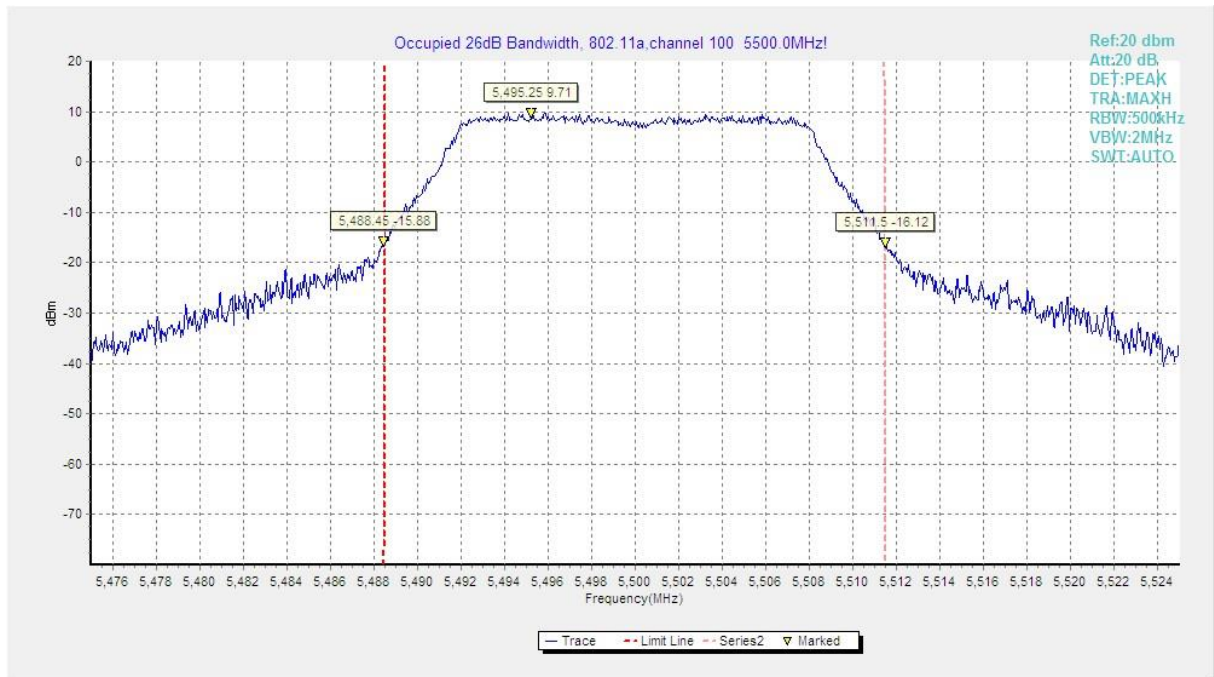


Fig. 7 Occupied 26dB Bandwidth (802. 11a, 5500MHz)

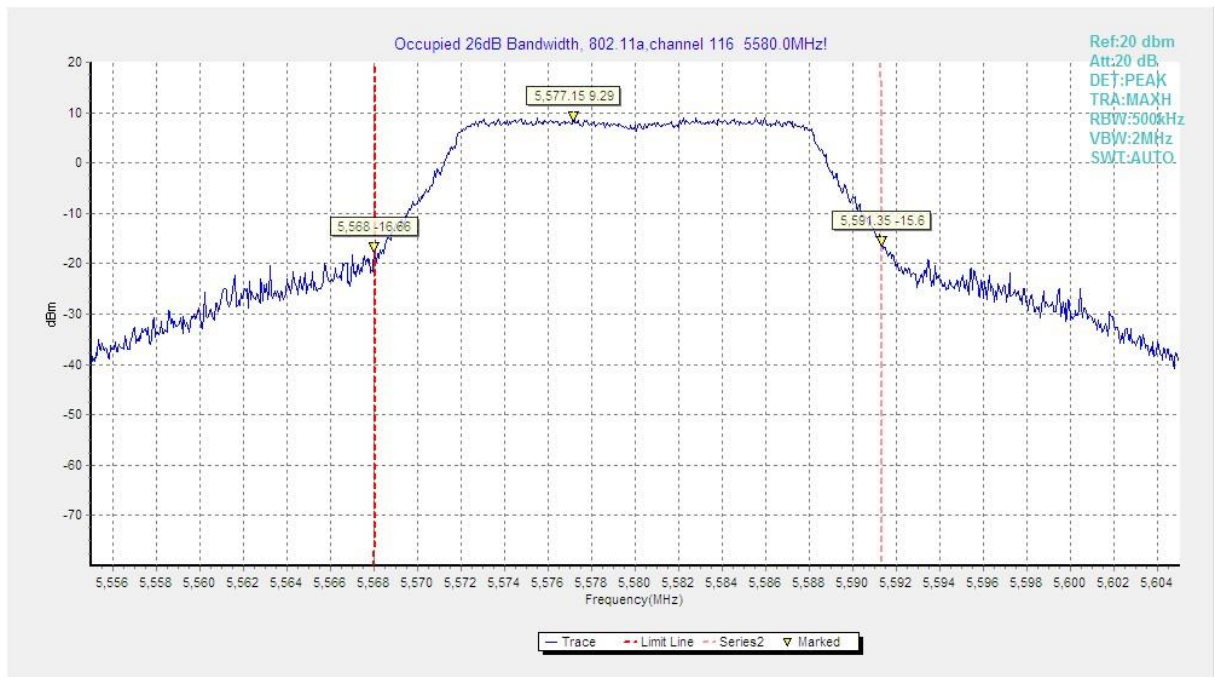


Fig. 8 Occupied 26dB Bandwidth (802. 11a, 5600MHz)

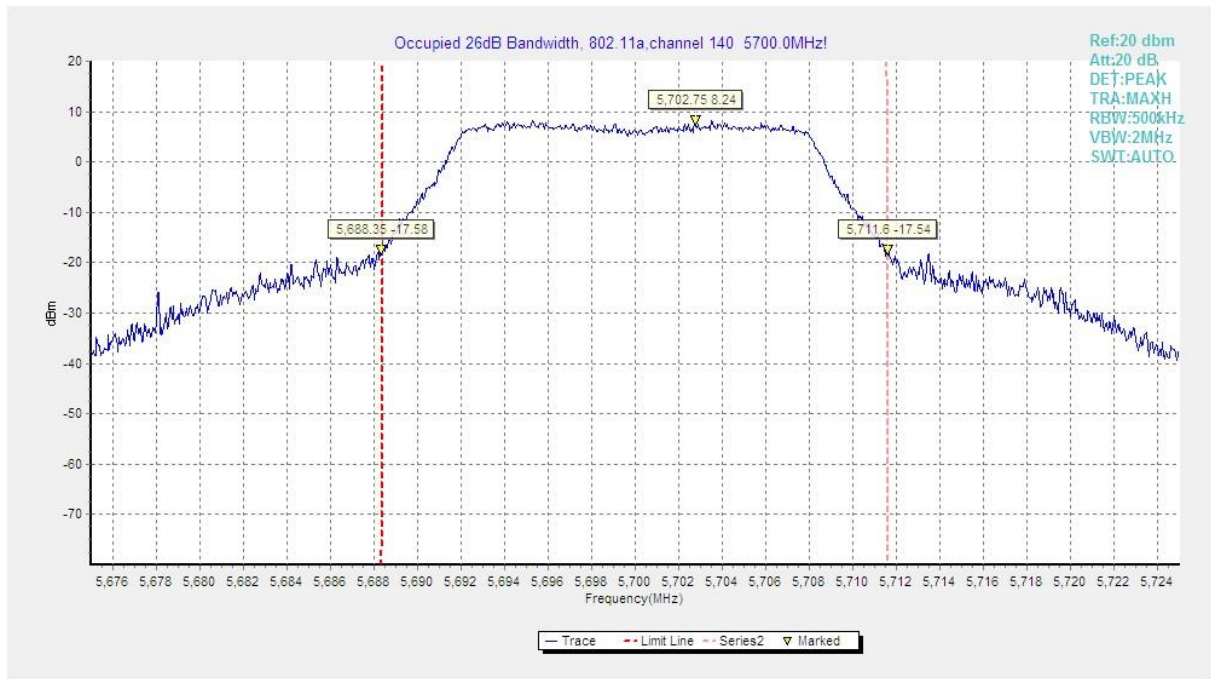


Fig. 9 Occupied 26dB Bandwidth (802. 11a, 5700MHz)

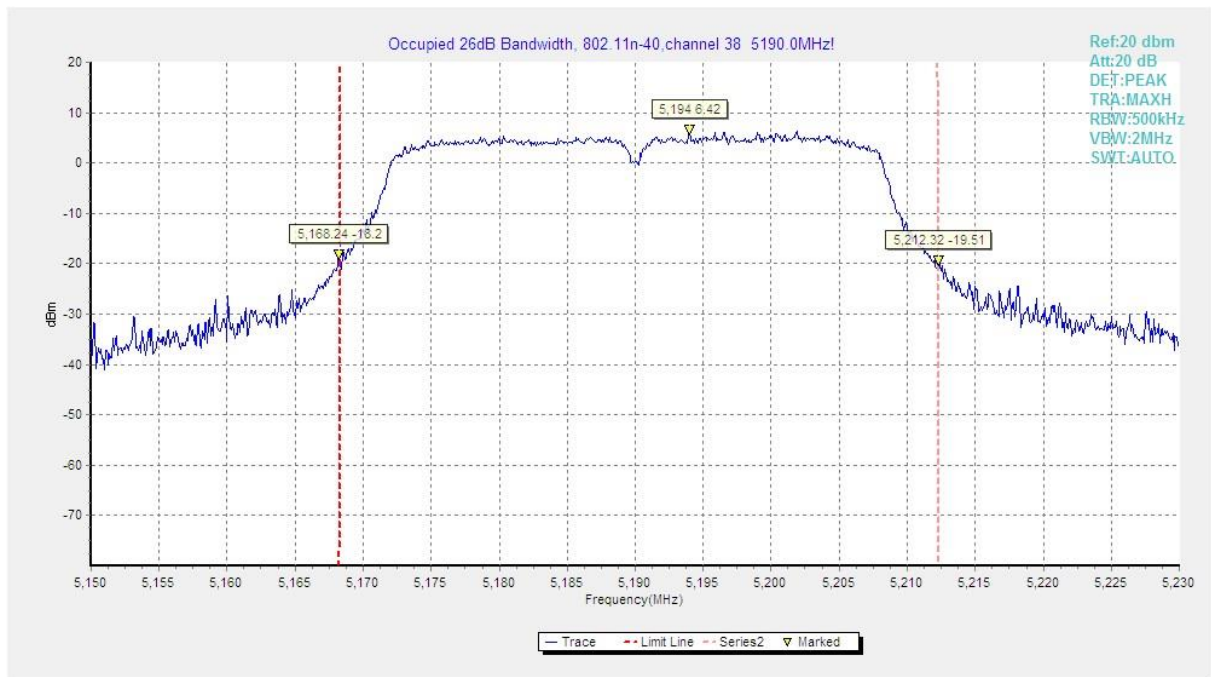


Fig. 10 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

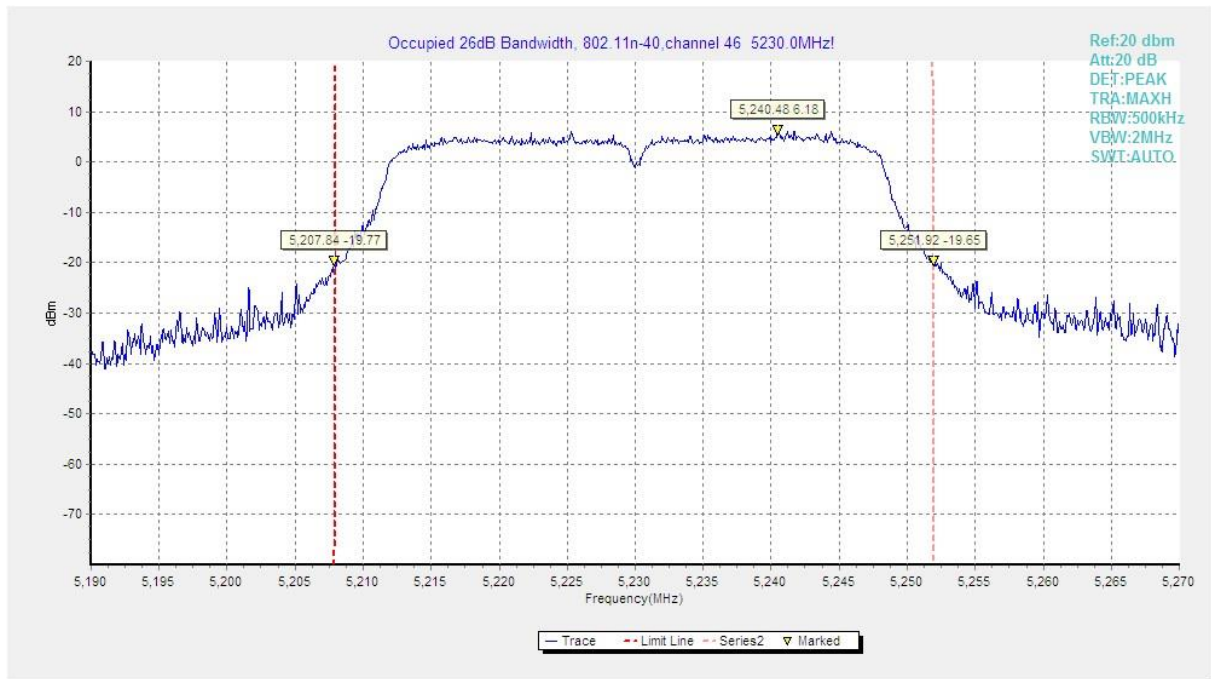


Fig. 11 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

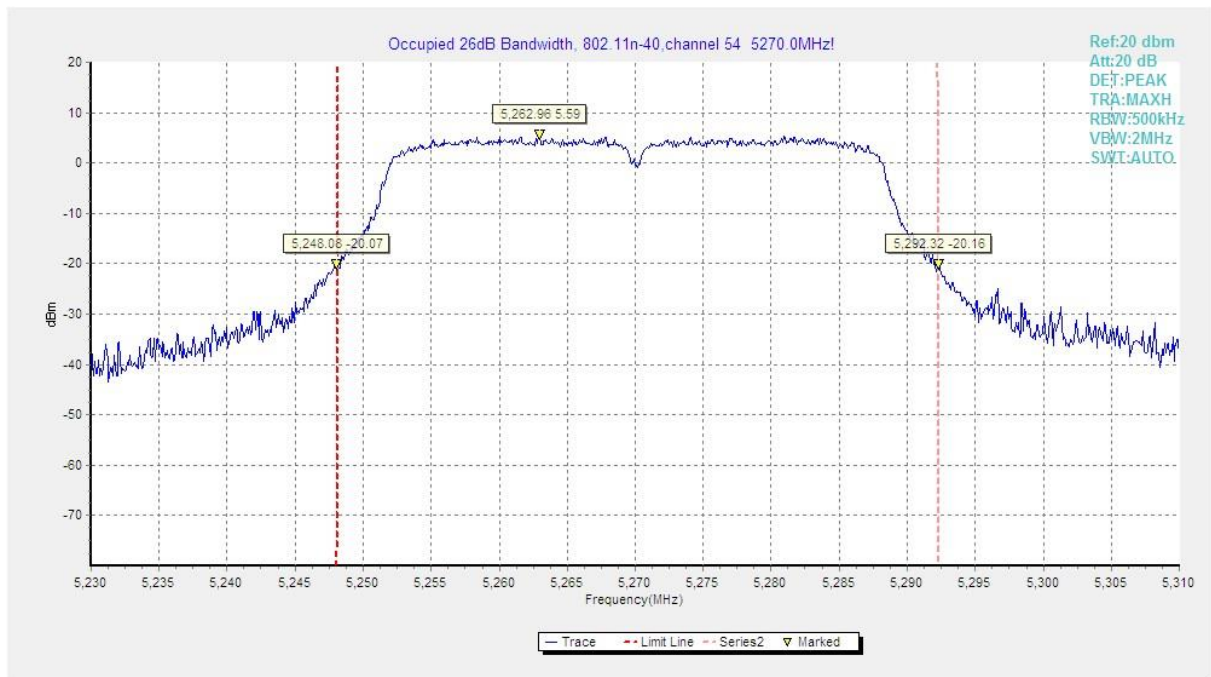


Fig. 12 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

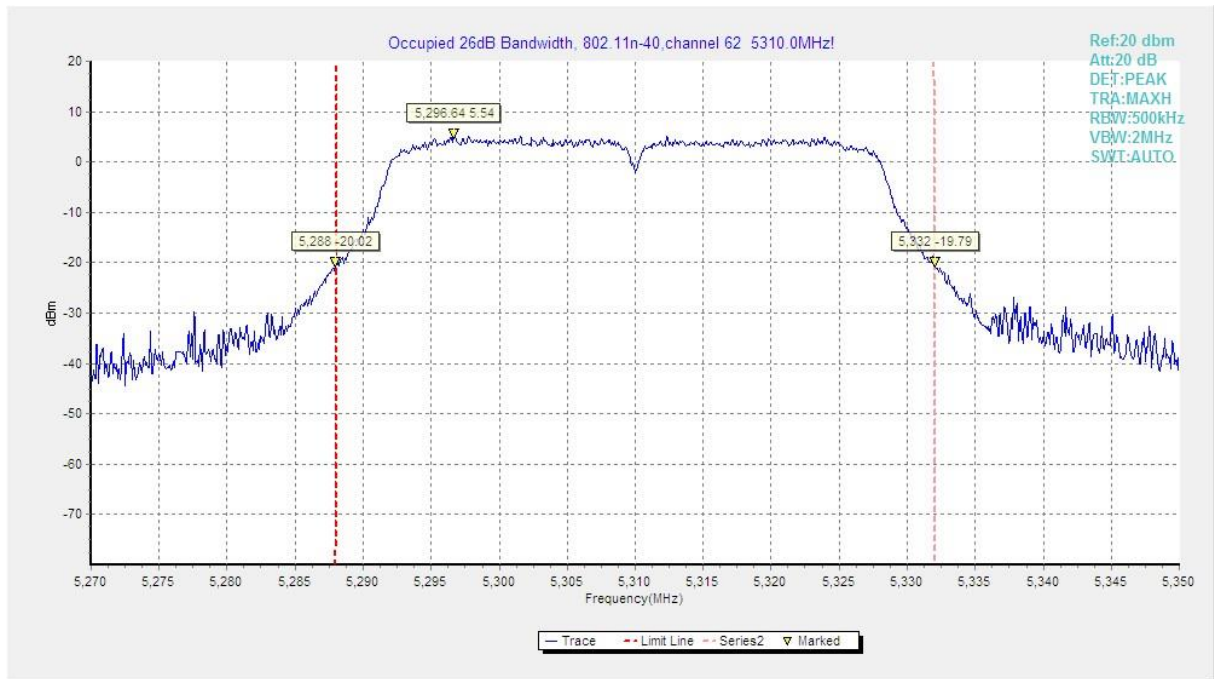


Fig. 13 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

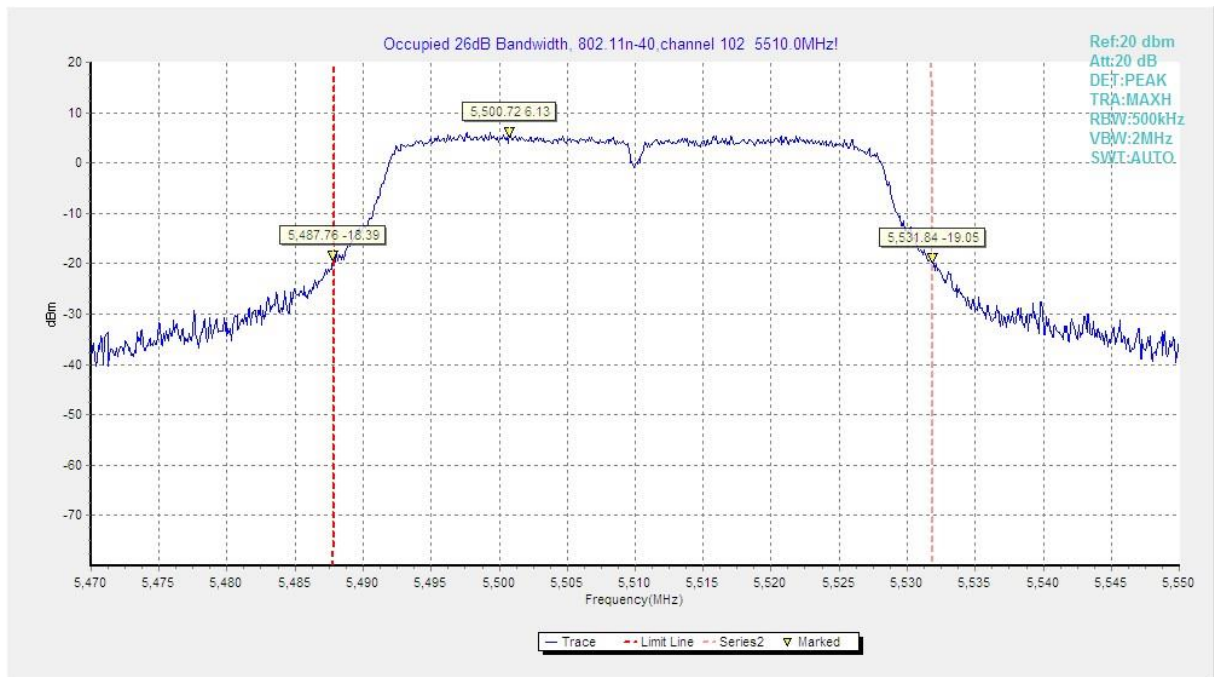


Fig. 14 Occupied 26dB Bandwidth (802. 11n-HT40, 5510MHz)

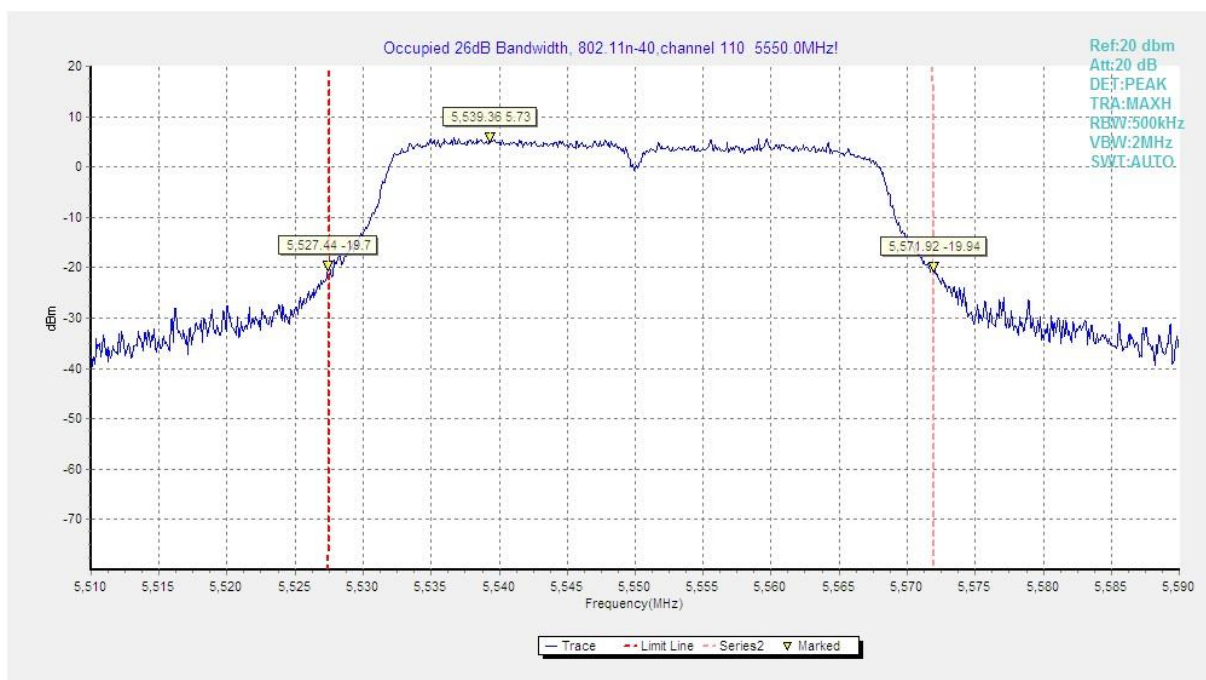


Fig. 15 Occupied 26dB Bandwidth (802. 11n-HT40, 5590MHz)

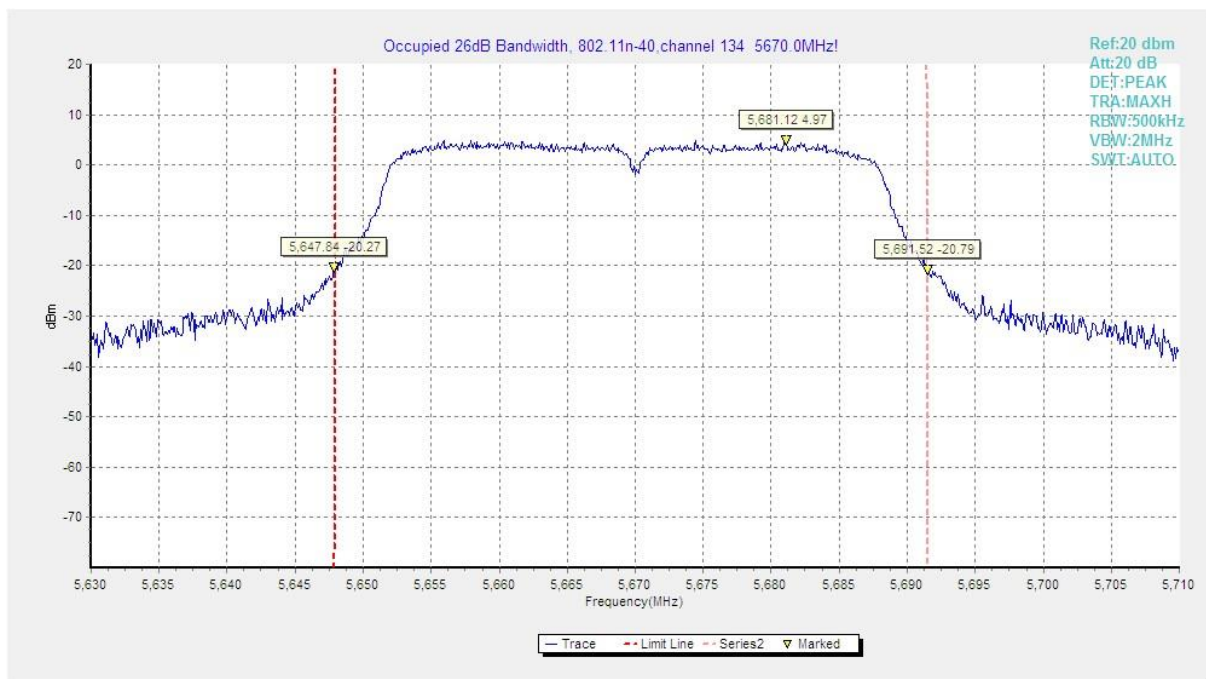


Fig. 16 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)

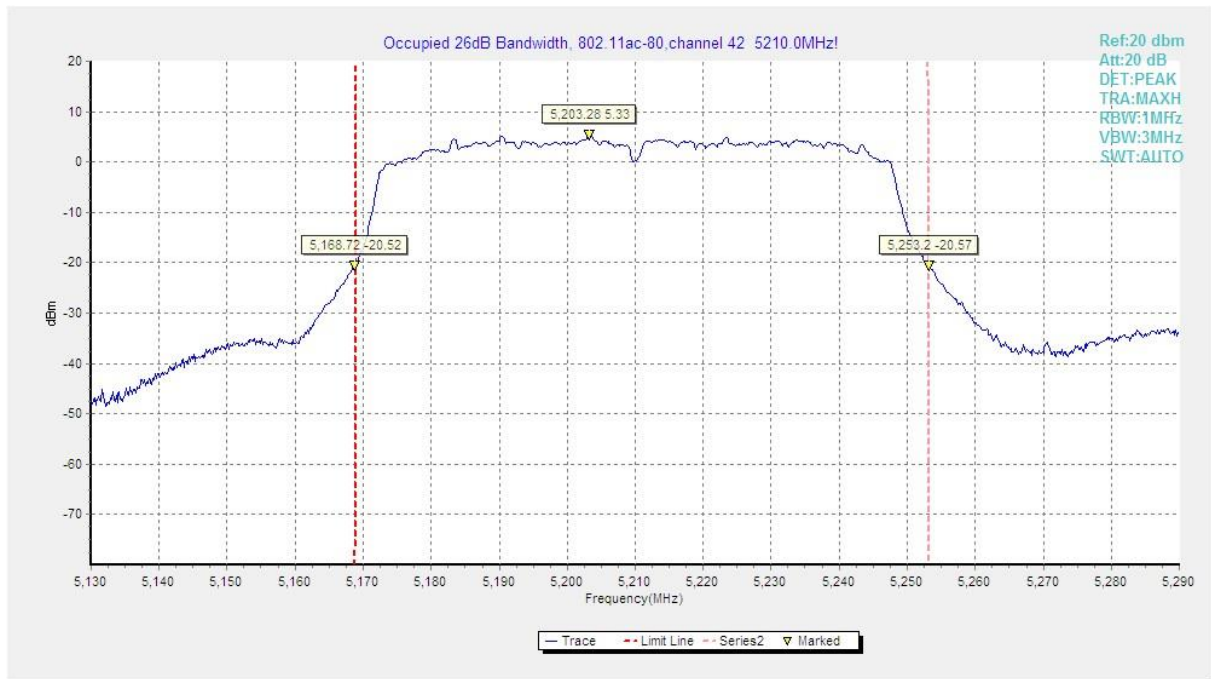


Fig. 17 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

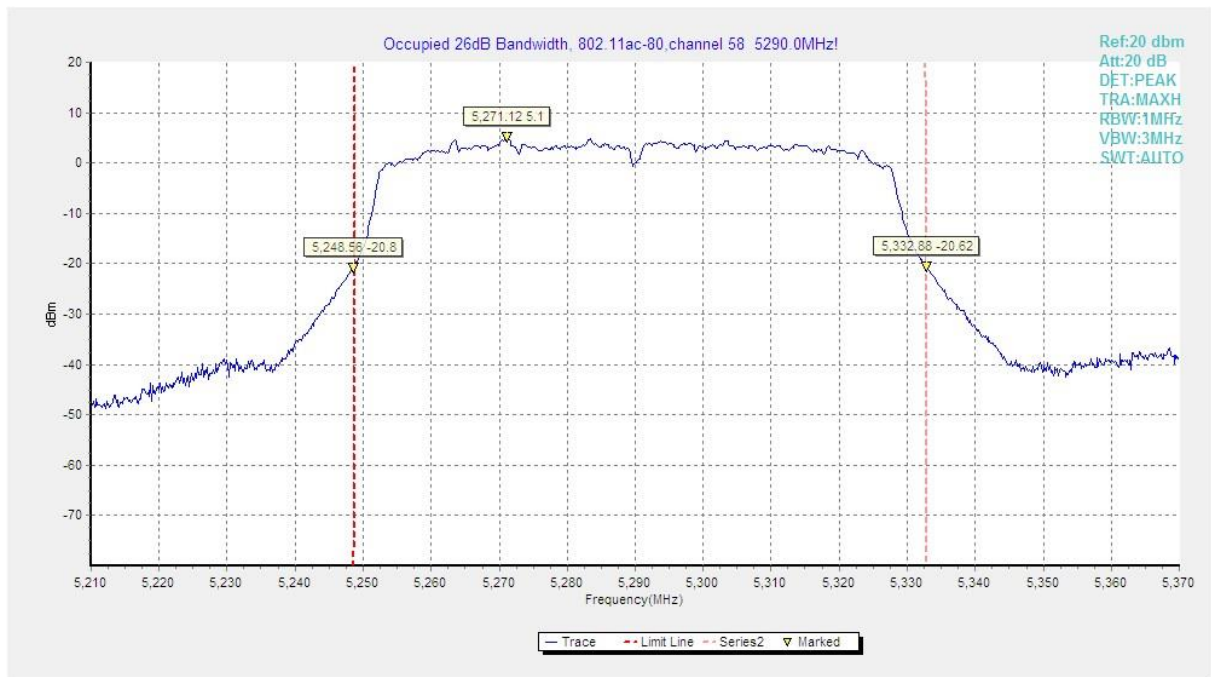


Fig. 18 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

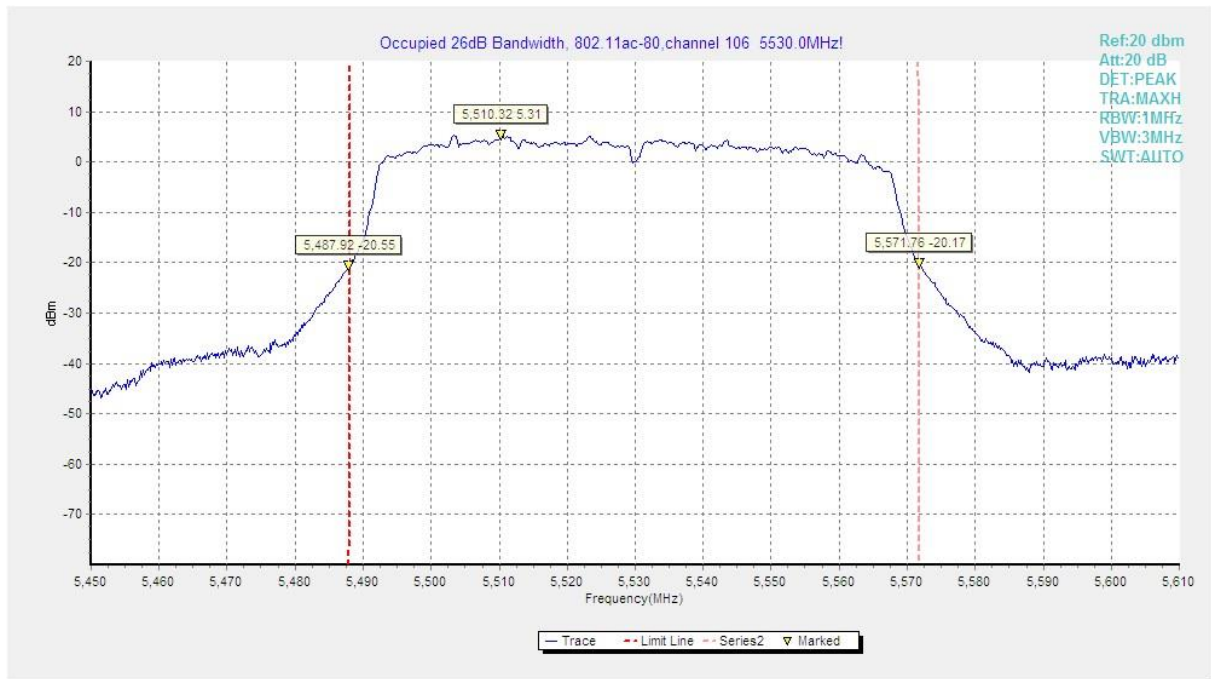


Fig. 19 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5530MHz)

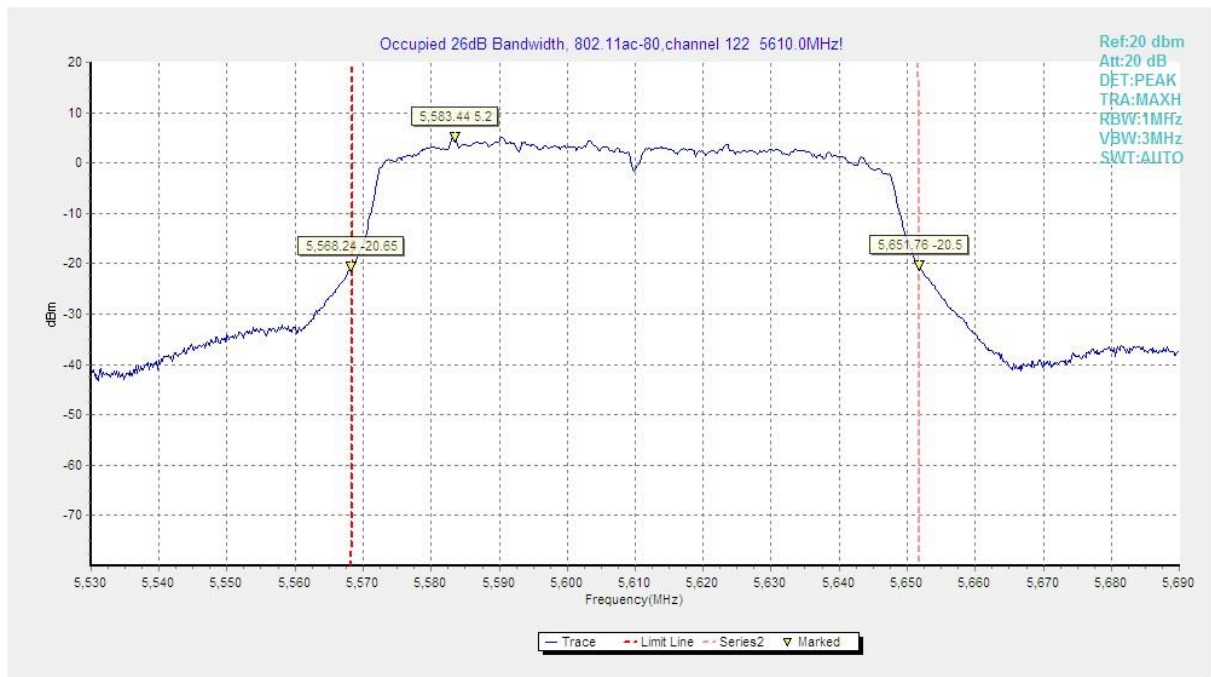


Fig. 20 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5610MHz)

A.5. Occupied 6dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.407 (e)	≥ 0.5

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth(MHz)		Conclusion
802.11a	5745MHz(Ch149)	Fig.21	16.35	P
	5785MHz(Ch157)	Fig.22	16.35	P
	5825MHz(Ch165)	Fig.23	16.35	P
802.11n HT40	5755MHz(Ch151)	Fig.24	35.52	P
	5795MHz(Ch159)	Fig.25	35.36	P
802.11ac VHT80	5775MHz(Ch155)	Fig.26	75.20	P

Conclusion: PASS

Test graphs as below:

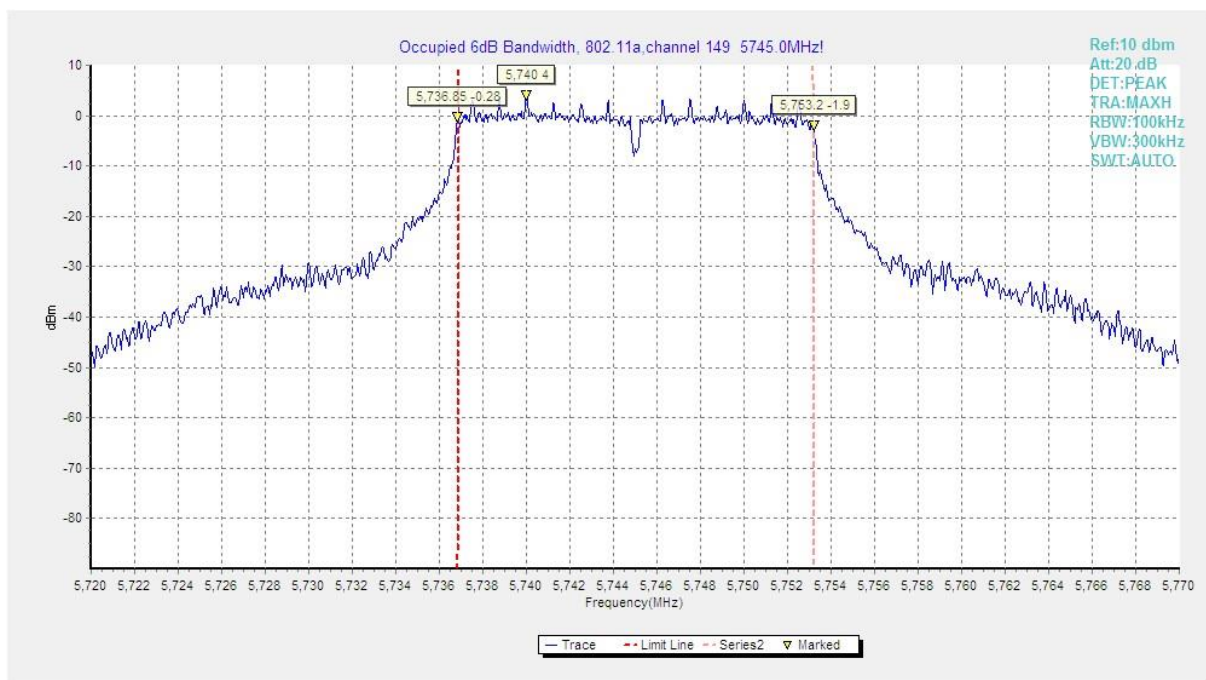


Fig. 21 Occupied 6dB Bandwidth (802.11a, 5745MHz)

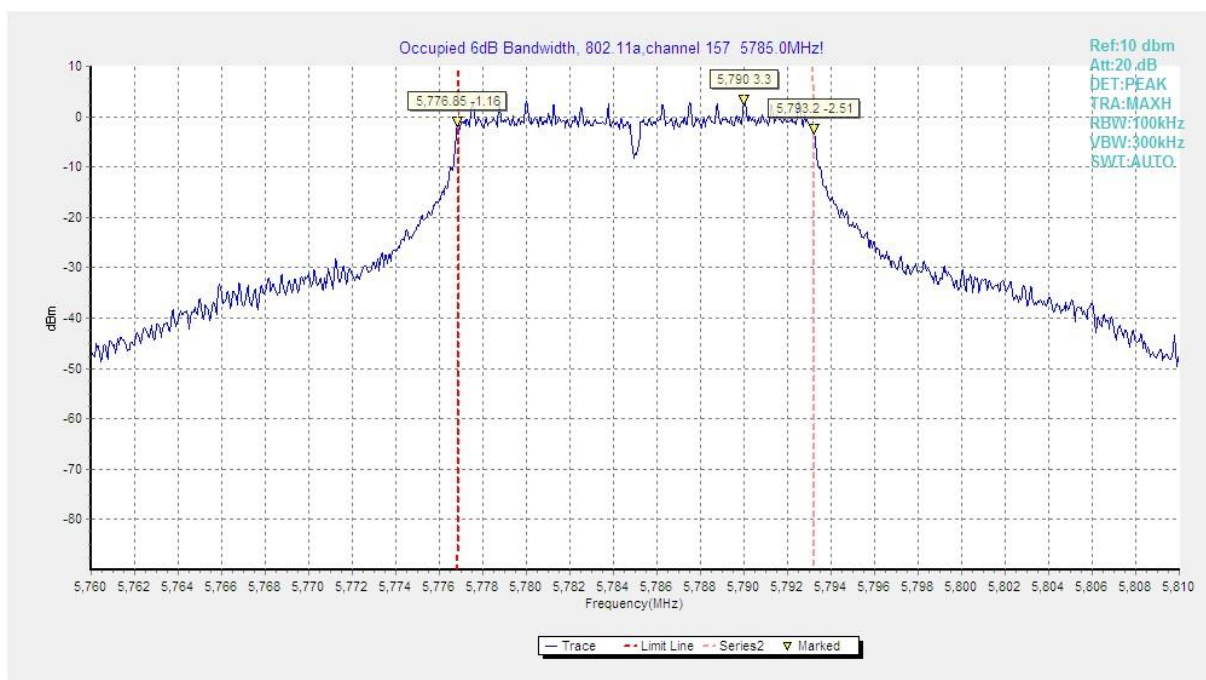


Fig. 22 Occupied 6dB Bandwidth (802.11a, 5785MHz)

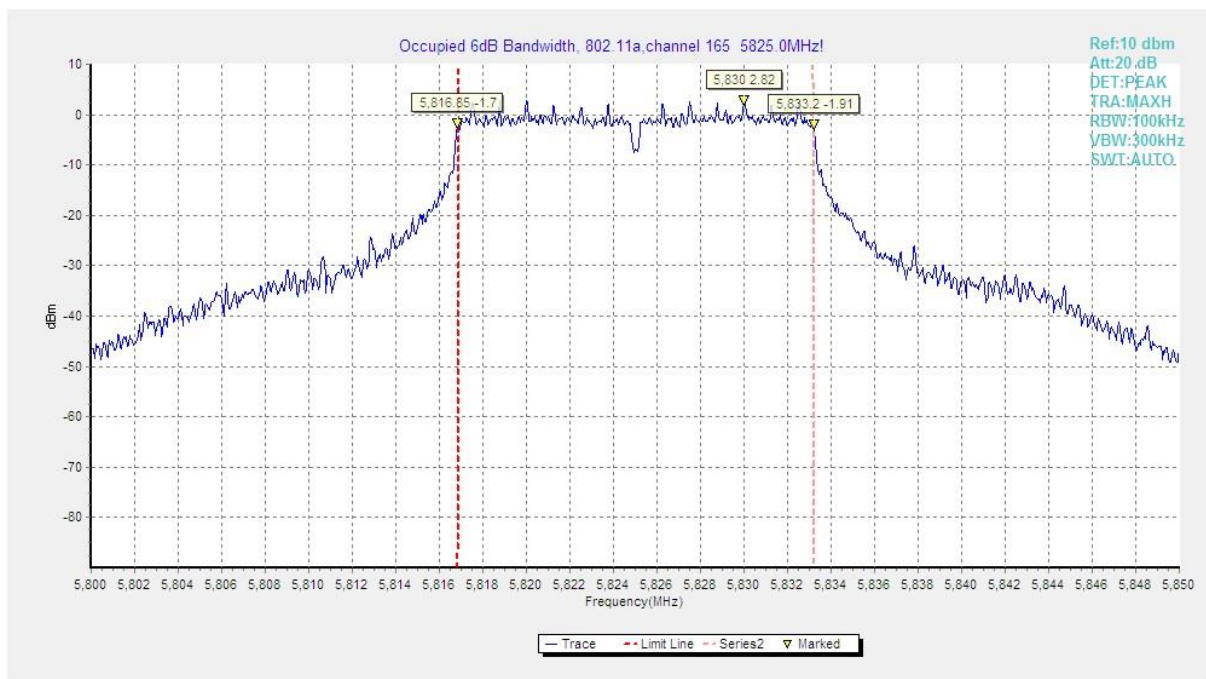


Fig. 23 Occupied 6dB Bandwidth (802.11a, 5825MHz)



Fig. 24 Occupied 6dB Bandwidth (802.11n-HT40, 5755MHz)

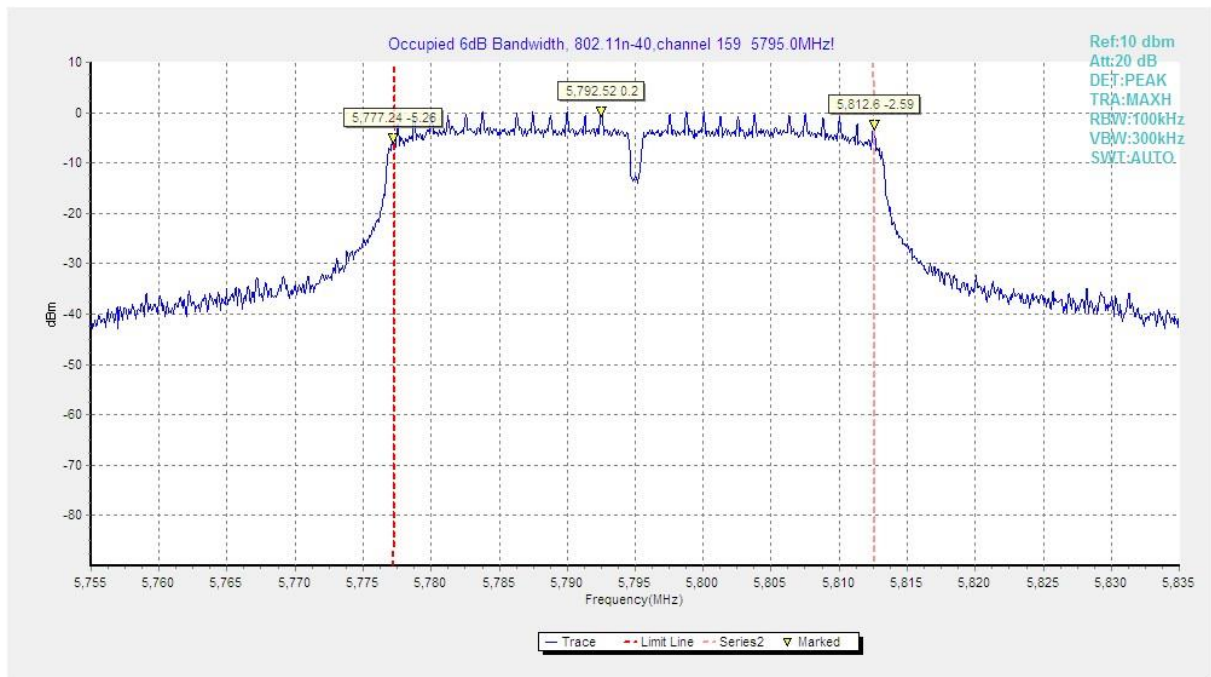


Fig. 25 Occupied 6dB Bandwidth (802.11n-HT40, 5795MHz)

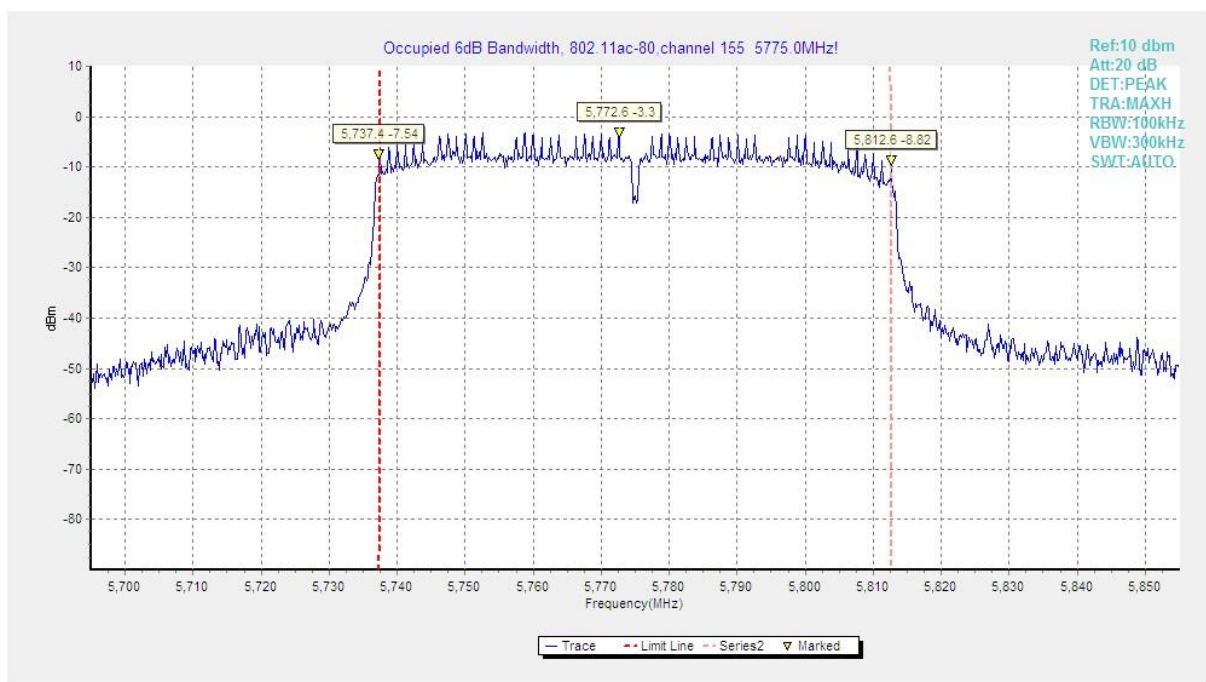


Fig. 26 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)

A.6. 99% Occupied Bandwidth(conducted)

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	99% Occupied Bandwidth(MHz)		Conclusion
802.11a	5180MHz(Ch36)	Fig.27	17.94	P
	5200MHz(Ch40)	Fig.28	17.94	P
	5240MHz(Ch48)	Fig.29	17.90	P
	5260MHz(Ch52)	Fig.30	17.90	P
	5280MHz(Ch56)	Fig.31	17.98	P
	5320MHz(Ch64)	Fig.32	17.94	P
	5500MHz(Ch100)	Fig.33	17.98	P
	5580MHz(Ch116)	Fig.34	17.94	P
	5700MHz(Ch140)	Fig.35	17.94	P
802.11n HT40	5190MHz(Ch38)	Fig.36	36.36	P
	5230MHz(Ch46)	Fig.37	36.44	P
	5270MHz(Ch54)	Fig.38	36.36	P
	5310MHz(Ch62)	Fig.39	36.36	P
	5510MHz(Ch102)	Fig.40	36.36	P
	5550MHz(Ch110)	Fig.41	36.36	P
	5670MHz(Ch134)	Fig.42	36.36	P
802.11 ac VHT80	5210MHz(Ch42)	Fig.43	74.65	P
	5290MHz(Ch58)	Fig.44	74.81	P
	5530MHz(Ch106)	Fig.45	74.49	P
	5610MHz(Ch122)	Fig.46	74.65	P

Conclusion: PASS

Test graphs as below:

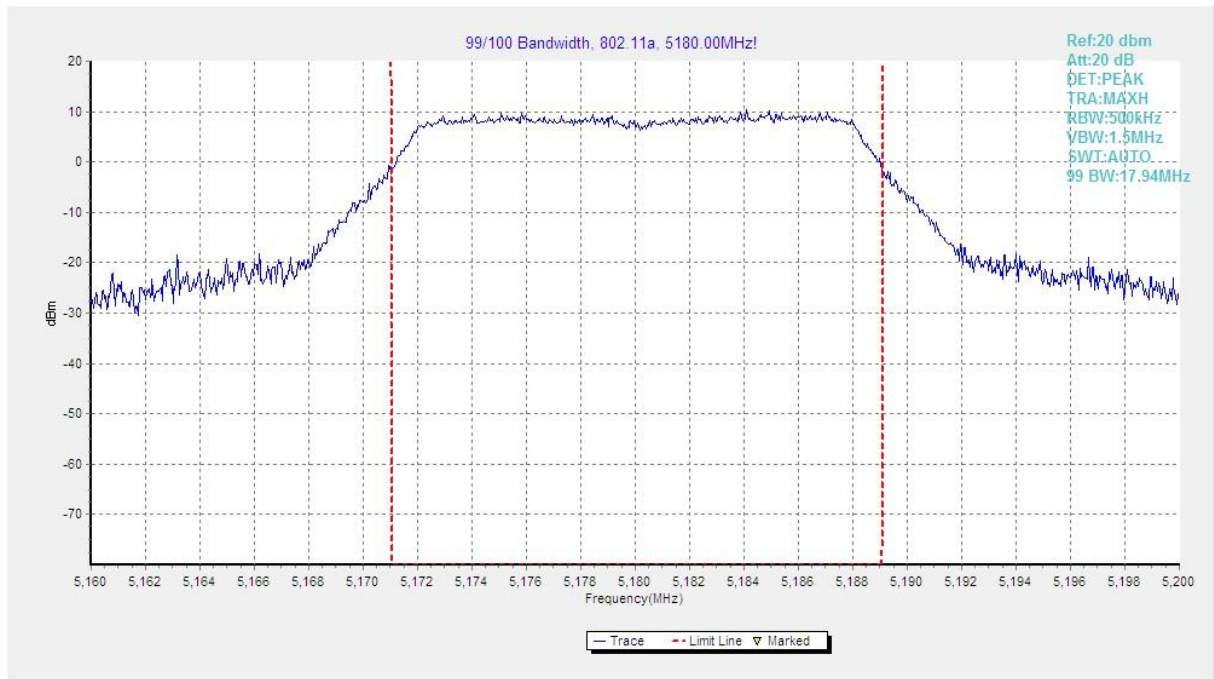


Fig. 27 99% Occupied Bandwidth (802.11a, 5180MHz)

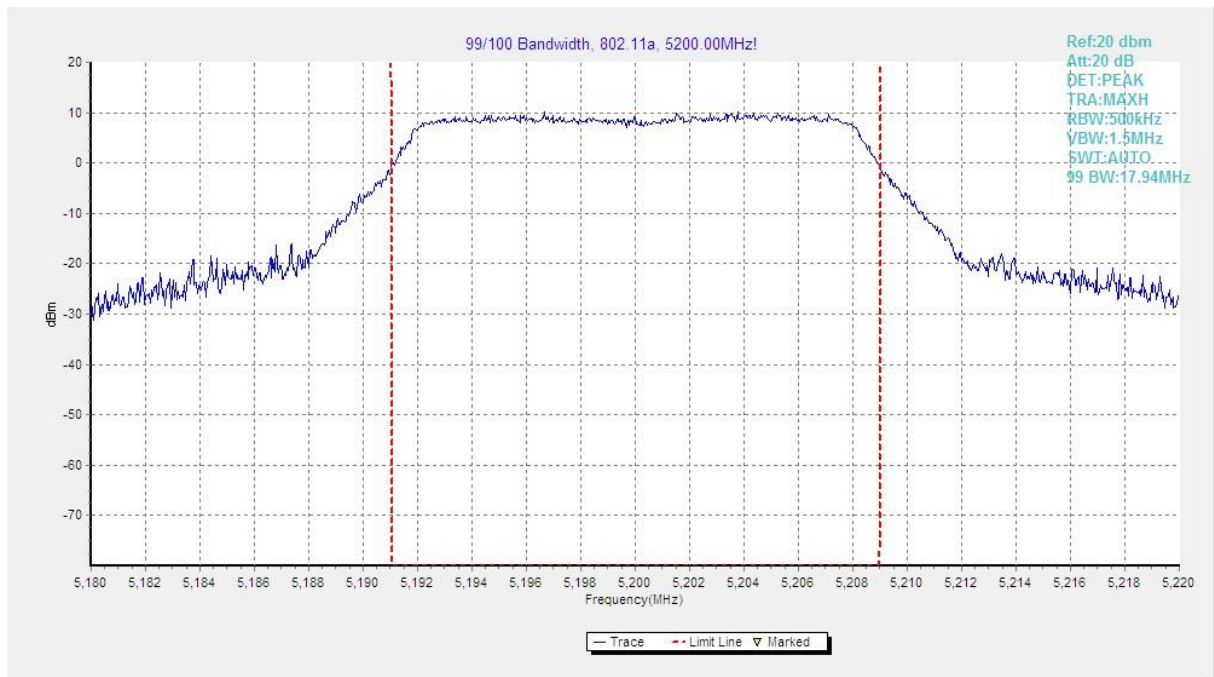


Fig. 28 99% Occupied Bandwidth (802.11a, 5200MHz)

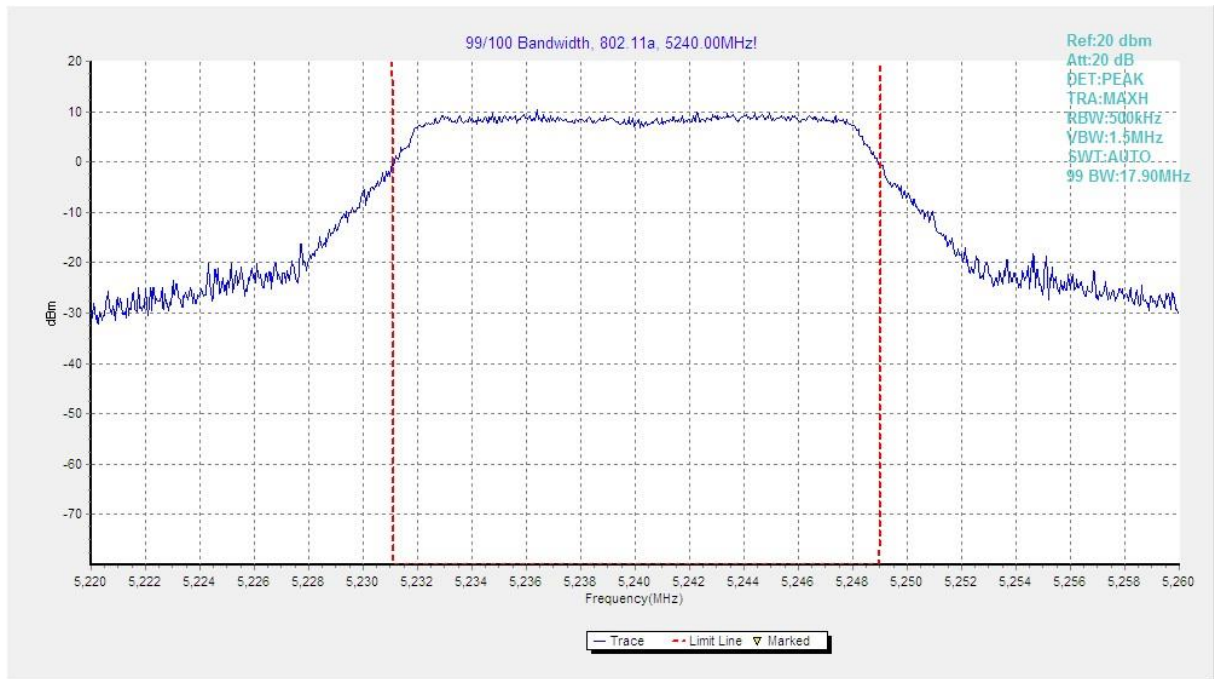


Fig. 29 99% Occupied Bandwidth (802.11a, 5240MHz)

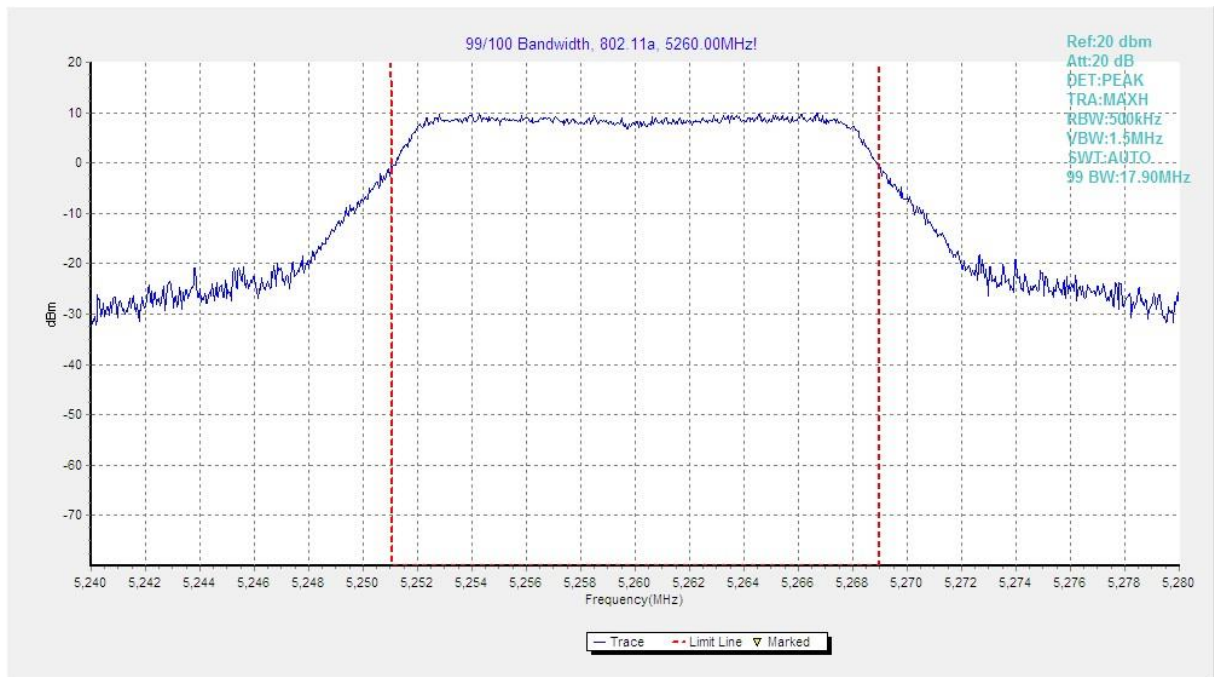


Fig. 30 99% Occupied Bandwidth (802.11a, 5260MHz)

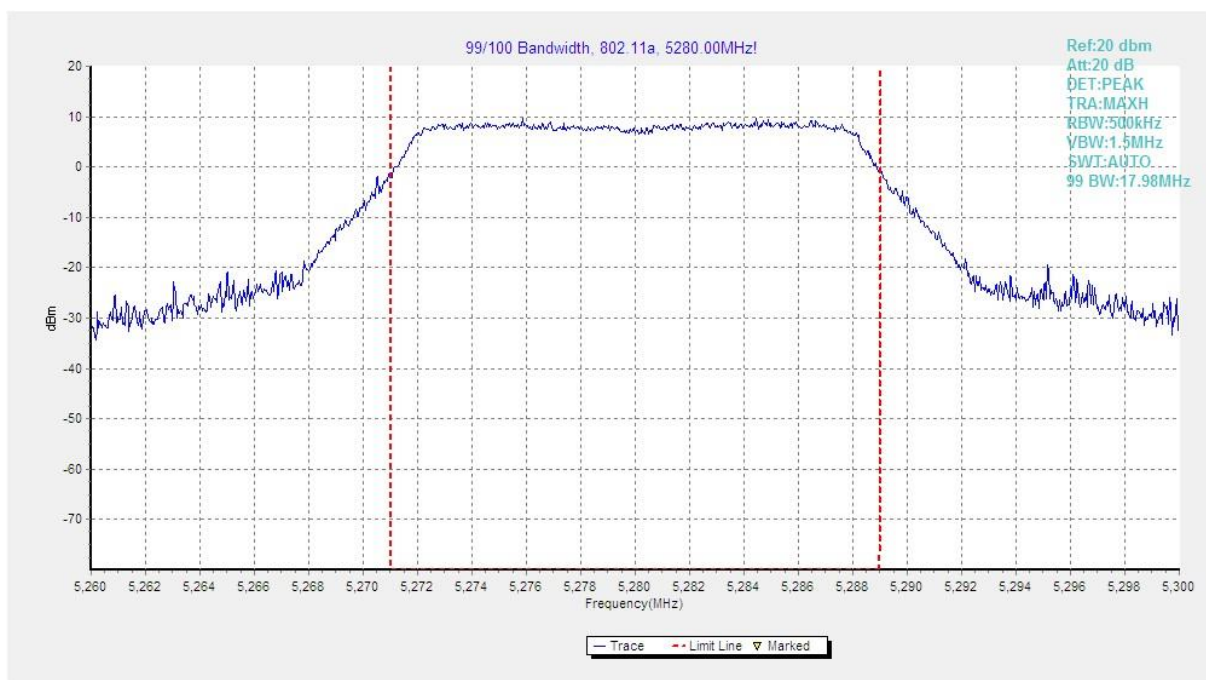


Fig. 31 99% Occupied Bandwidth (802.11a, 5280MHz)

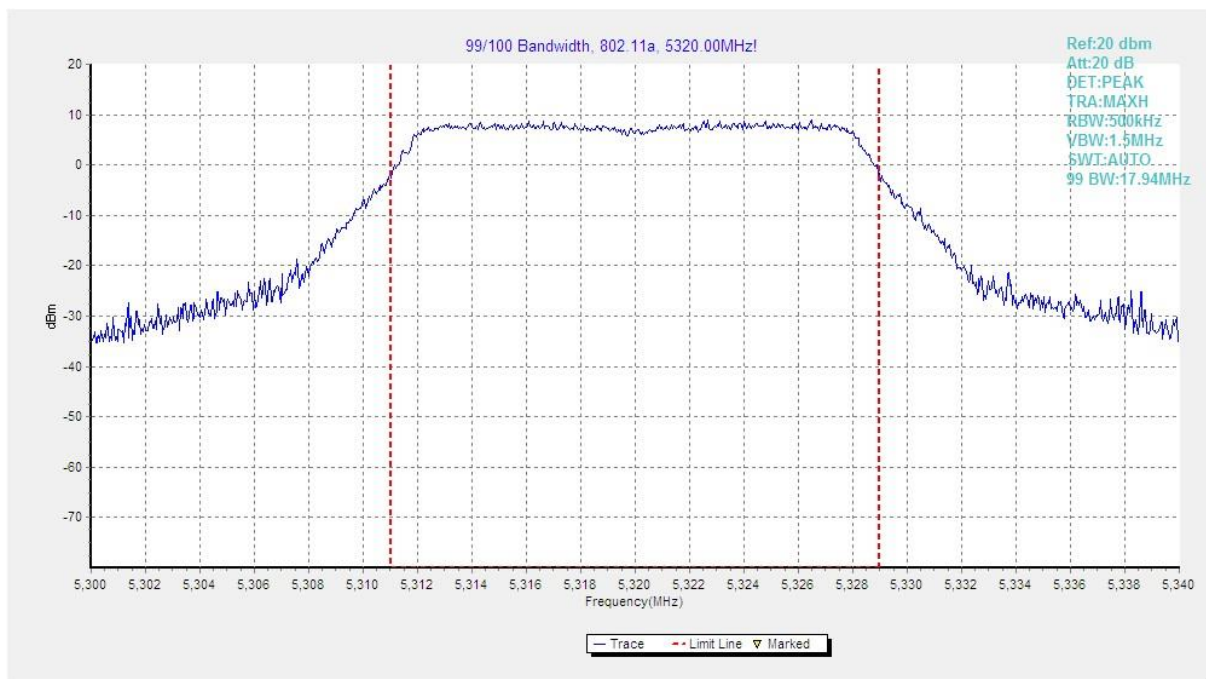


Fig. 32 99% Occupied Bandwidth (802.11a, 5320MHz)



Fig. 33 99% Occupied Bandwidth (802. 11a, 5500MHz)

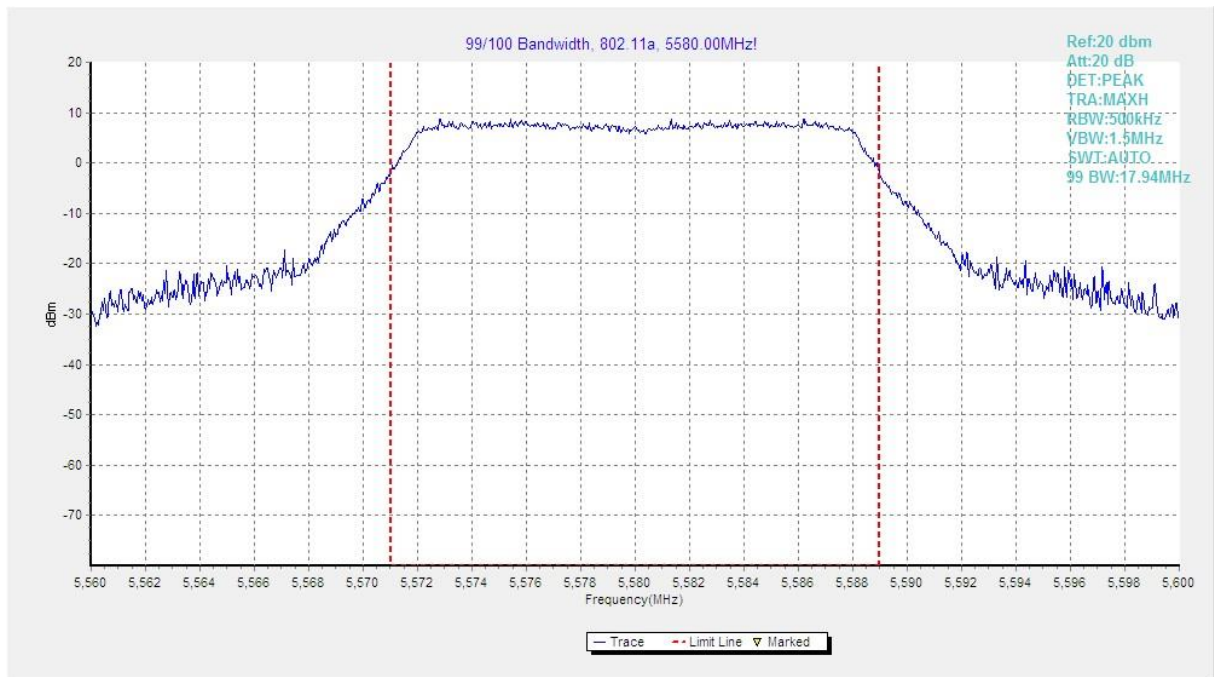


Fig. 34 99% Occupied Bandwidth (802. 11a, 5600MHz)

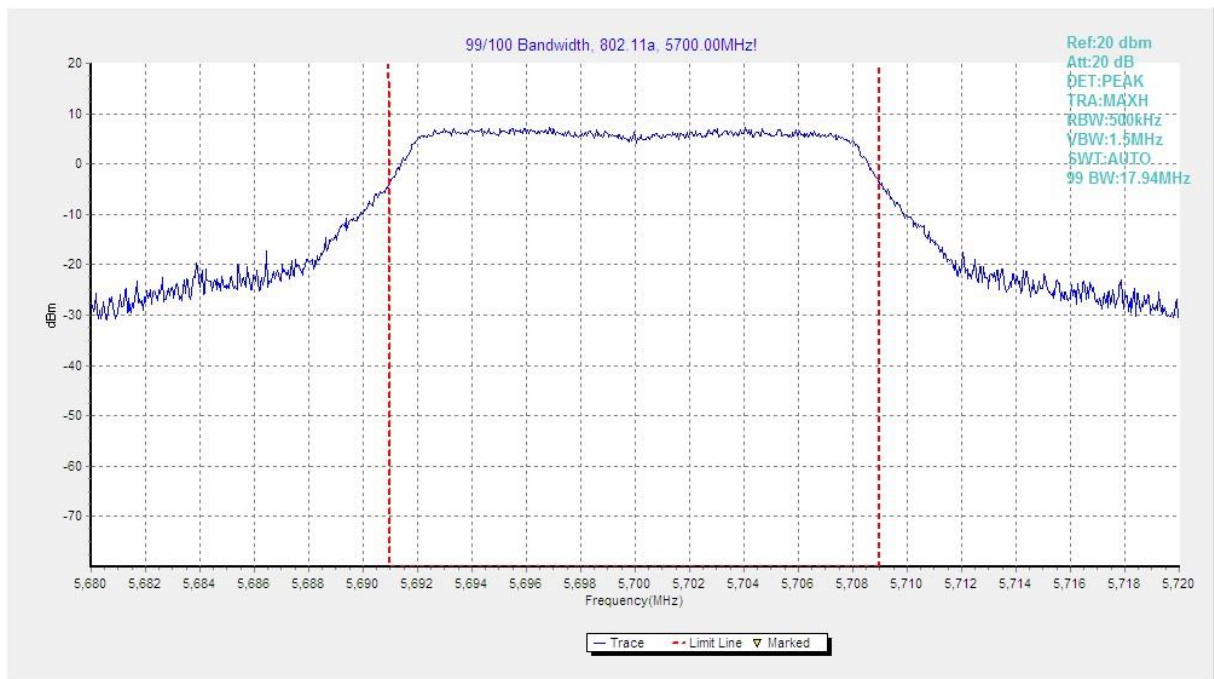


Fig. 35 99% Occupied Bandwidth (802. 11a, 5700MHz)

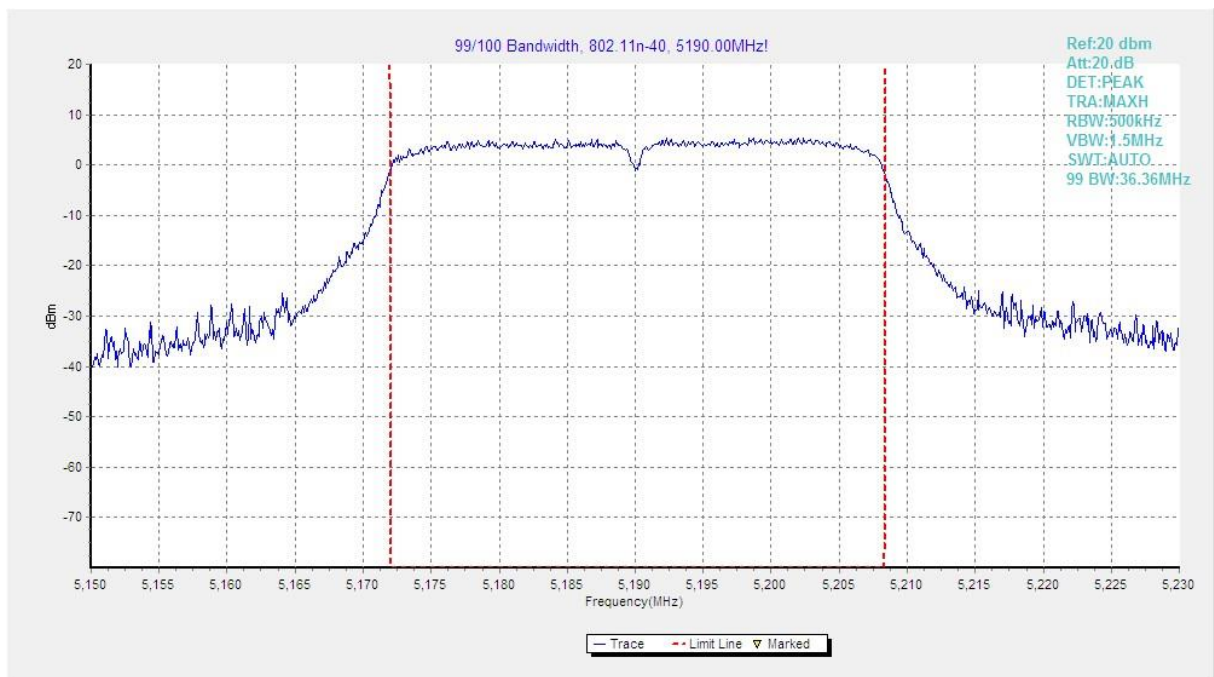


Fig. 36 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

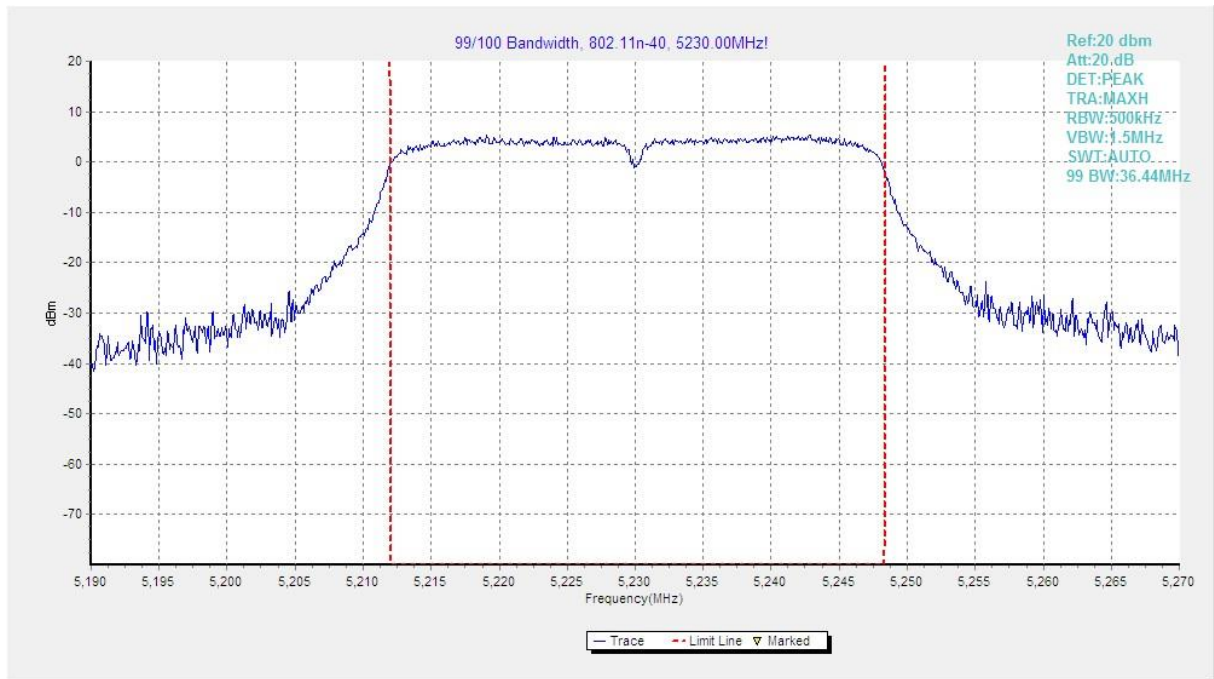


Fig. 37 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

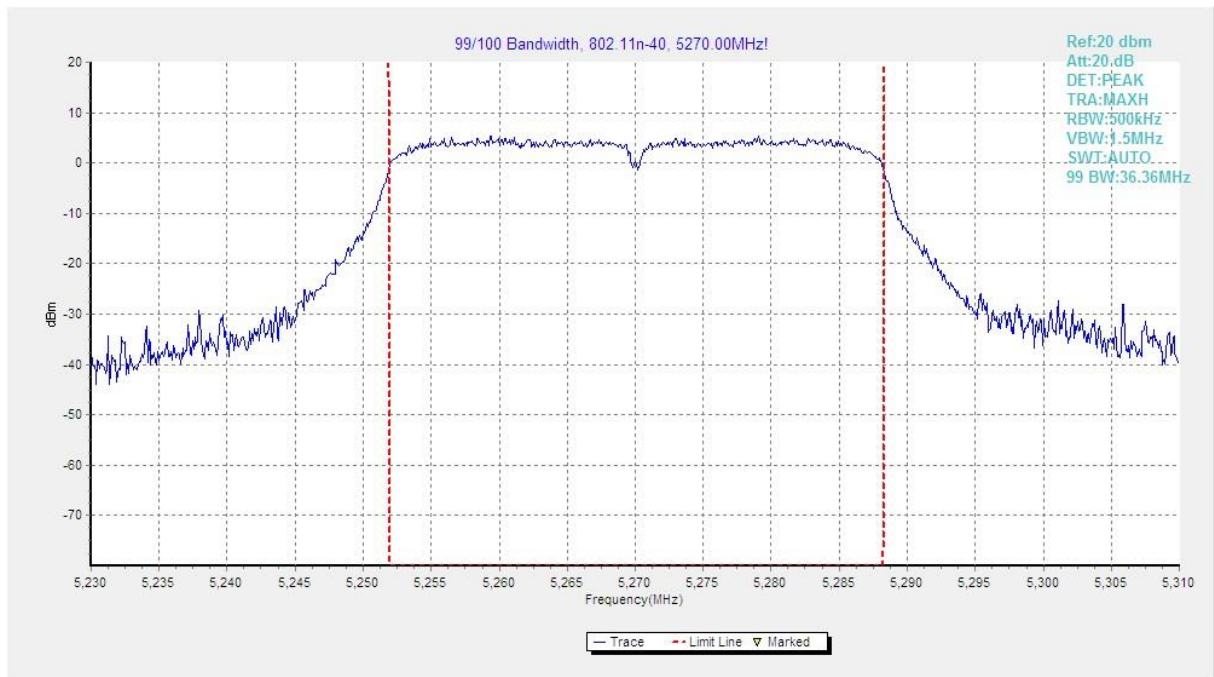


Fig. 38 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

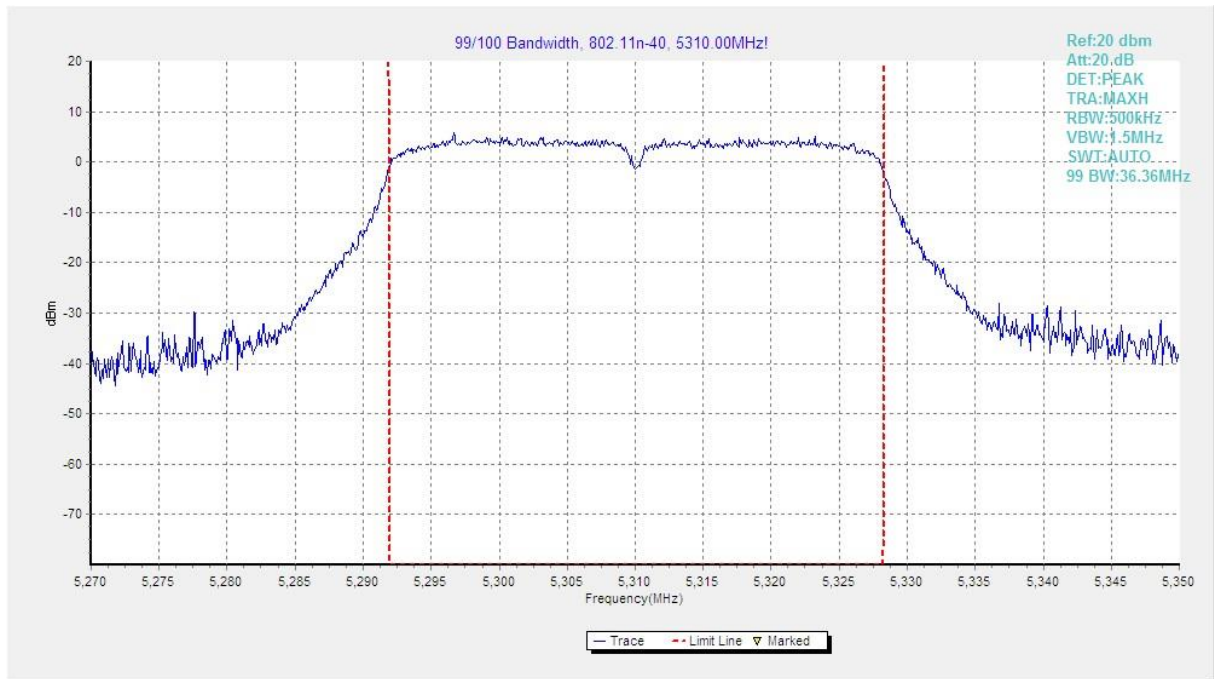


Fig. 39 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)



Fig. 40 99% Occupied Bandwidth (802.11n-HT40, 5510MHz)

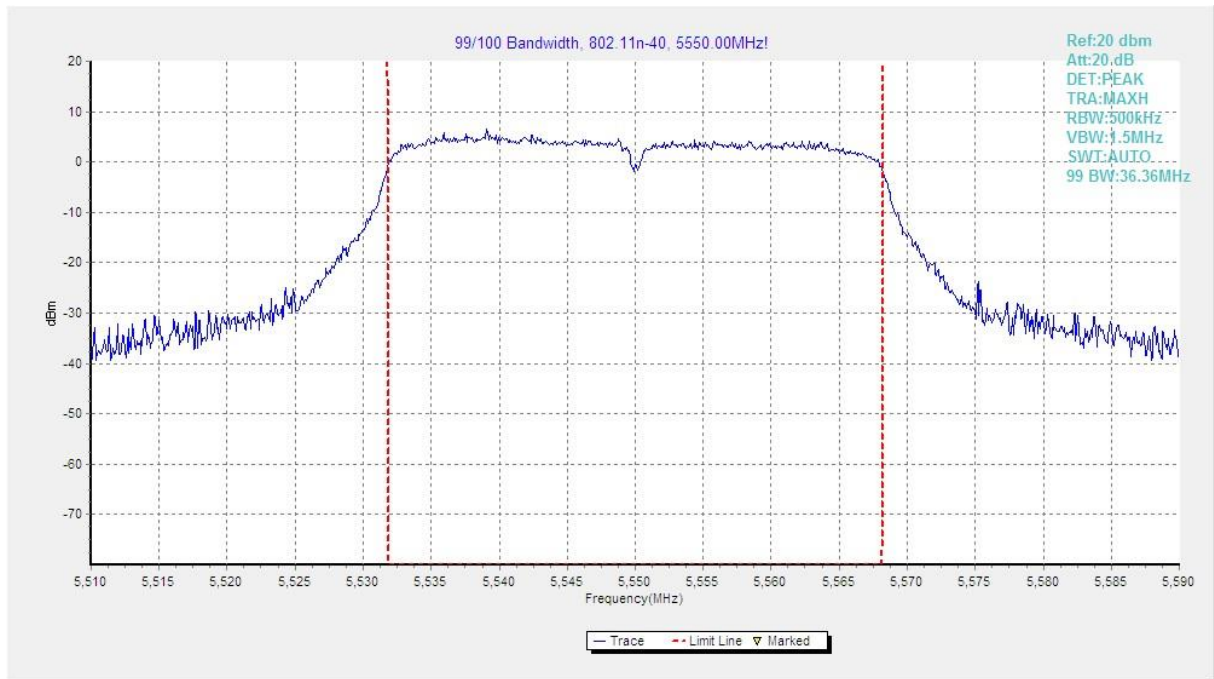


Fig. 41 99% Occupied Bandwidth (802.11n-HT40, 5590MHz)

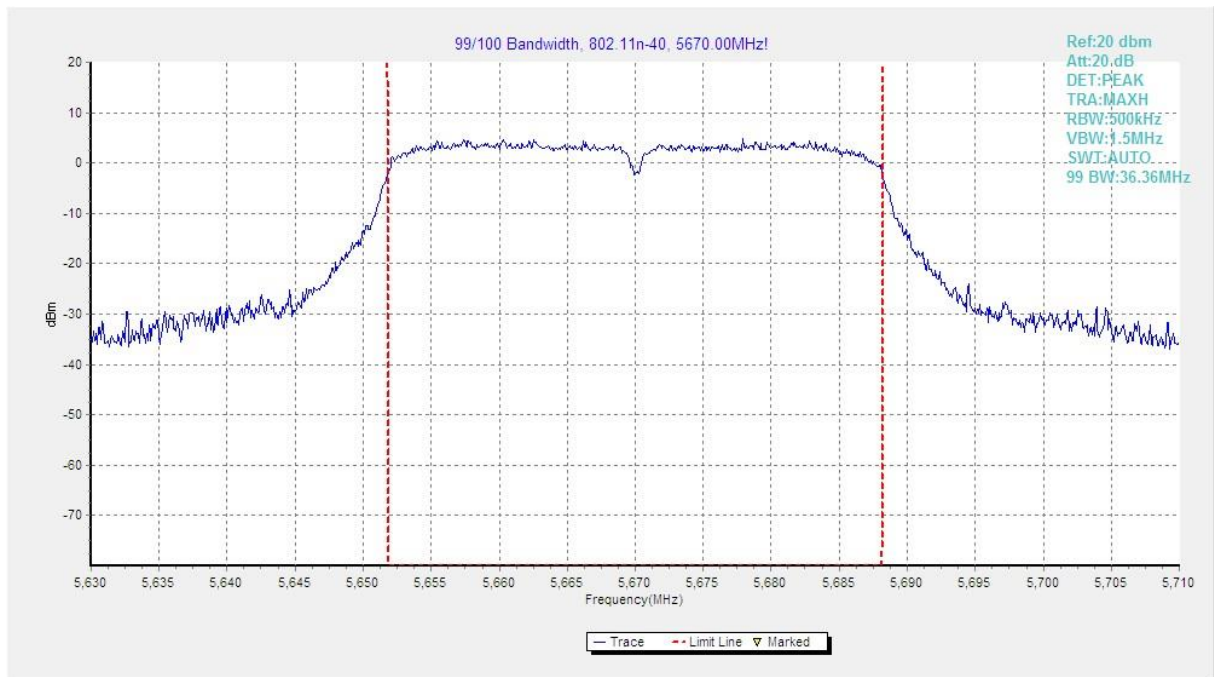


Fig. 42 99% Occupied Bandwidth (802.11n-HT40, 5670MHz)

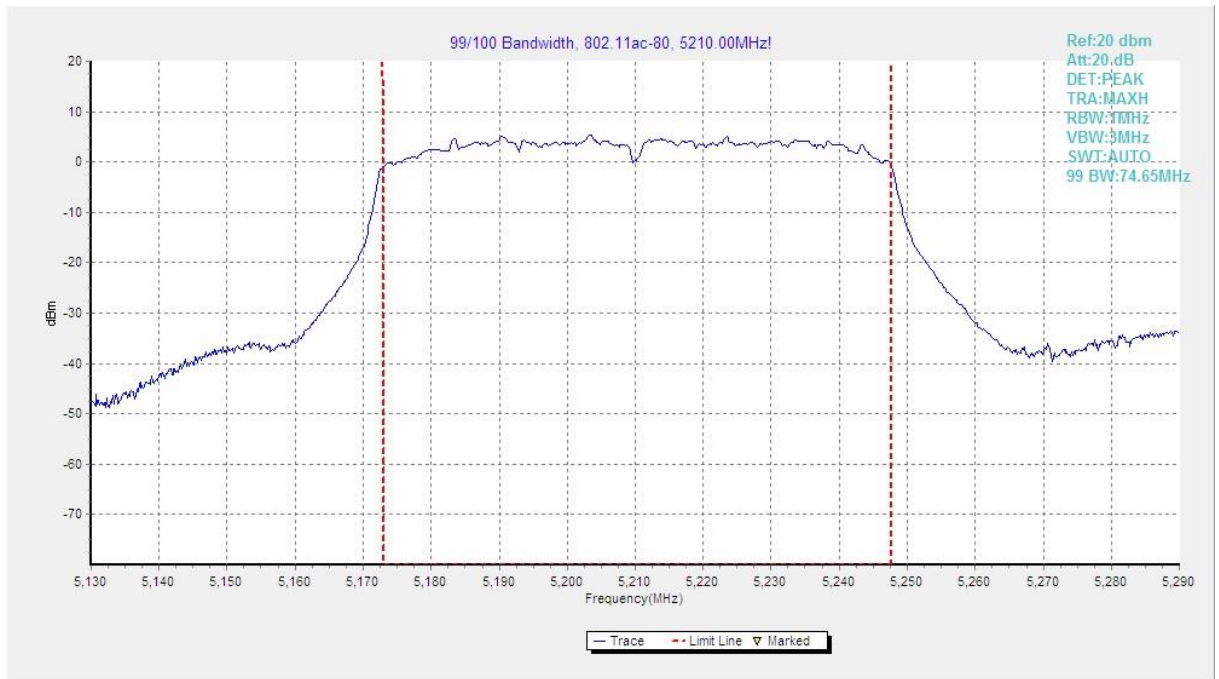


Fig. 43 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

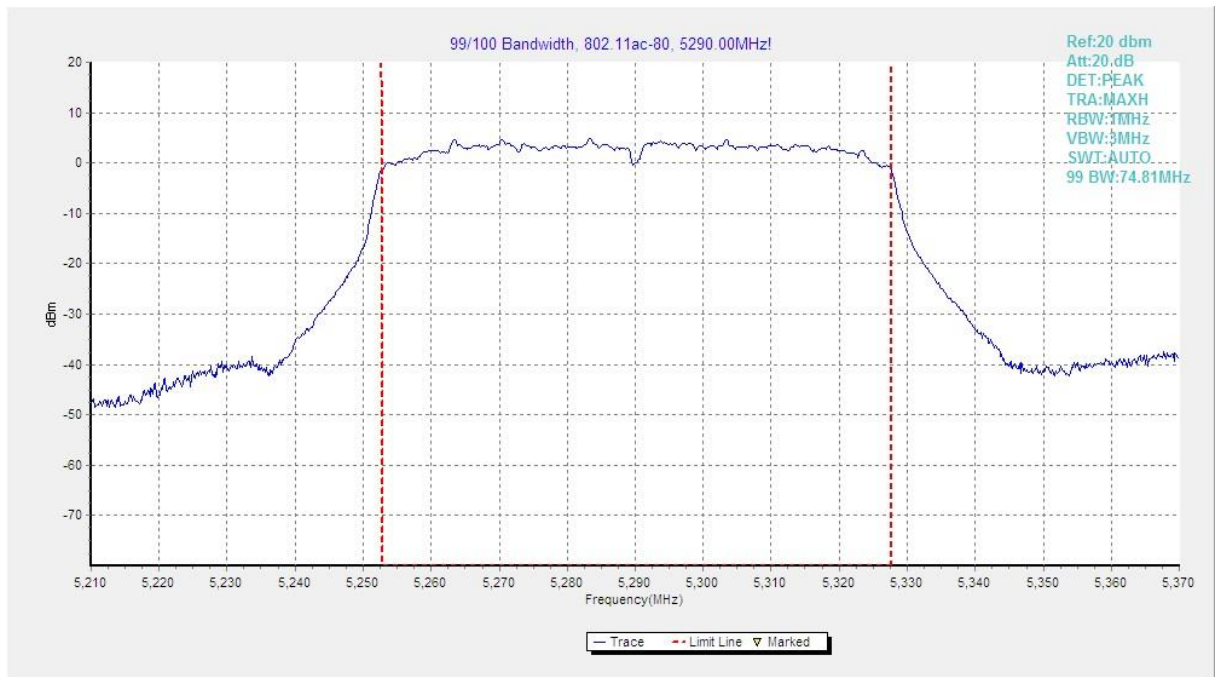


Fig. 44 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)