





# FCC PART 15 TEST REPORT

No.119Z62229-IOT05

for

Client name: TCL Communication Ltd.

Product name: HSUPA/HSDPA/UMTS 5 Bands/GSM Quad

Bands/LTE 17 bands mobile phone

Model name: T770B

With

FCC ID: 2ACCJN036

**Hardware Version: 03** 

**Software Version: 3C2G** 

Issued Date: 2020-02-16

### 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

#### **Test Laboratory:**

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## **REPORT HISTORY**

Report Number Revision		Description	Issue Date	
I19Z62229-IOT05	Rev.0	1st edition	2020-02-16	





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### 1. TEST LATORATORY

#### 1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 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 (CN0066). The detail accreditation scope can be found on NVLAP website.

### 1.2. Testing Location

Conducted testing Location: CTTL(huayuan North Road)

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

P. R. China100191

Radiated testing Location: CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology

Development Area, Beijing, P. R. China 100176

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: -10-55°C Relative Humidity: 20-75%

#### 1.4. Project date

Testing Start Date: 2019-12-23
Testing End Date: 2020-02-14

#### 1.5. Signature

Xie Fangfang

(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.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Address:

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.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science

Park, Shatin, NT, Hong Kong

City: Hong Kong

Postal Code: /

Address:

Country: China

Telephone: 0086-755-36611722

Fax: 0086-755-36612000-81722





### 3. EQUIPMENT UNDER TEST (EUT) AND

### **ANCILLARYEQUIPMENT(AE)**

#### 3.1. About EUT

Description HSUPA/HSDPA/UMTS 5 Bands/GSM Quad Bands/LTE 17

bands mobile phone

Model name T770B

FCC ID 2ACCJN036 WLAN Frequency Range ISM Bands:

> -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz

Type of modulation OFDM

Antenna Integral Antenna

Voltage 3.85V

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

EUT ID*	SN or IMEI	<b>HW Version</b>	SW Version
EUT1	015658000201572	03	3C2G
EUT2	015658000201580	03	3C2G

<sup>\*</sup>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	Туре	SN		
AE2	AE2 battery		/		
AE3	Travel charger	/	/		
AE4	USB Cable	/	/		
AE5	USB Cable	/	/		
AE2					
Model		TLp038D1			
Manufad	cturer	/			
Capacita	ance	3860 mAh	3860 mAh		
Nominal voltage		3.85V			
AE3					
Model		UC13US			
Manufad	cturer	PUAN	PUAN		
Length of cable		/			
AE4					
Model		CDA0000128C1			
Manufacturer		Juwei	Juwei		
Length of cable		/			

CDA0000128C2

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AE5

Model

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Manufacturer Shenghua

Length of cable /

### 3.4. General Description

The Equipment under Test (EUT) is a model of HSUPA/HSDPA/UMTS 5 Bands/GSM Quad Bands/LTE 17 bands mobile phone 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 20 Part 15 - Radio frequency devices			
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the	2013		
ANSI C03.10	Range of 9 kHz to 40 GHz	2013		
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01 2			
	Federal Communications Commission Office of Engineering			
	and Technology Laboratory Division			
	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON			
KDB 558074 D01	DIGITAL TRANSMISSION SYSTEM, FREQUENCY	2019		
	HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID			
	SYSTEM DEVICES OPERATING UNDER SECTION			
	15.247 OF THE FCC RULES			

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





### 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	/	Р
Peak Power Spectral Density	15.407	/	Р
Occupied 26dB Bandwidth	15.403	/	Р
Band edge compliance (Radiated)	15.209	/	Р
Transmitter spurious emissions (Radiated)	15.407	/	Р
AC Powerline Conducted Emission (150kHz-30MHz)	15.407	/	Р
Frequency Stability	15.407	/	Р
99% Occupied bandwidth	/	/	Р
Transmit Power Control	15.407	/	NA

Please refer to ANNEX A for detail.

Terms used in Verdict column

Р	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/manufacturer 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  $26^{\circ}$ C Voltage 3.85V Humidity 44%





## 7. TEST EQUIPMENTS UTILIZED

**Conducted test system** 

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2020-05-15
2	Test Receiver	ESCI	100766	Rohde & Schwarz	1 year	2020-02-20
3	LISN	ENV216	101200	Rohde & Schwarz	1 year	2020-04-27
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

Radiated emission test system						
No.	No. Equipment	Model	Serial	Manufacturer	Calibration Period	Calibration
				Number		Due date
1	Test Receiver	ESU26	100376	Rohde &	1 year	2020-10-30
'	lest iveceivei	L3020	100370	Schwarz	i yeai	2020-10-30
2	BiLog Antenna	VULB9163	01176	Schwarzbeck	3 years	2020-3-14
	Dual-Ridge					
3	Waveguide Horn	3117	00139065	ETS-Lindgren	3 years	2020-11-10
	Antenna					
4	EMI Antenna	3116	2663	ETS-Lindgren	3 years	2020-6-18
5 On a strong Annah	Spectrum Analyzer	F0)/	404047	Rohde &	1 voor	2020-05-16
5 Spectrum Analyzer FSV		101047	Schwarz	1 year	2020-05-16	





### 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)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤3.6GHz	1.22
3.6GHz ≤ f ≤8GHz	1.22
8GHz ≤ f ≤12.75GHz	1.51
12.75GHz ≤ f ≤26GHz	1.51
26GHz ≤ f ≤40GHz	1.59

### Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.40
1GHz ≤ f ≤18GHz	4.32
18GHz ≤ f ≤40GHz	5.26



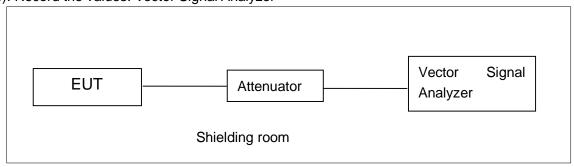


### ANNEX A: MEASUREMENT RESULTS

#### A.1. Measurement Method

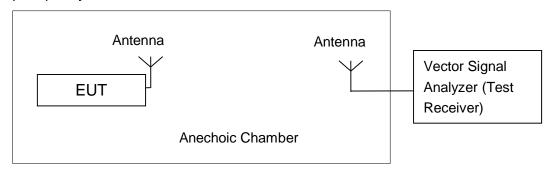
#### A.1.1. Conducted Measurements

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

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

The measurementmethod SA-2 is made according to KDB 789033

#### Note:

For straddle channel 20MHz Bandwidth 5720MHz, Conducted Output Power Limit:

802.11a=11+10\*log(B)=23.19, B=23.15/2+5=16.58MHz,

802.11n-HT20=11+10\*log(B)=23.30, B=23.95/2+5=16.98MHz,

802.11ac-VHT20=11+10\*log(B)=23.30, B=24.00/2+5=17.00MHz,

For straddle channel 40/80MHz Bandwidth, conducted output power limit=24 dBm

802.11n-HT40: B=41.52/2+15=35.76MHz,

802.11ac-VHT40: B=41.60/2+15=35.80MHz,

802.11ac-VHT80: B=84.32/2+35=77.16MHz,

#### **Measurement Results:**

11a	6	9	12	18	24	36	48	54		
	98.49%	98.48%	98.37%	97.97%	98.48%	98.57%	98.21%	97.82%		
11n-20	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	99.12%	99.16%	99.13%	98.88%	98.53%	97.87%	97.95%	97.79%		
11n-40	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	99.16%	99.19%	98.83%	98.53%	97.63%	97.15%	96.83%	96.54%		
11ac-20	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	
	99.13%	98.98%	99.02%	99.01%	98.67%	98.19%	97.94%	98.26%	97.96%	
11ac-40	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	99.17%	99.11%	98.92%	98.57%	97.82%	97.13%	96.71%	96.59%	95.96%	95.61%
11ac-80	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	98.52%	98.23%	97.64%	96.90%	95.34%	94.20%	93.54%	93.12%	91.88%	90.78%

### 802.11a mode

					Test Res	ult (dBm	)						
Mode	Channel		Data Rate (Mbps)										
		6	9	12	18	24	36	48	54				
	5180MHz	16.15	/	/	/	/	/	/	/				
	5200MHz	16.45	/	/	/	/	/	/	/				
	5240MHz	17.38	/	/	/	/	/	/	/				
802.11a	5260MHz	17.67	/	/	/	/	/	/	/				
002.11a	5280MHz	17.75	/	/	/	/	/	/	/				
	5320MHz	17.21	/	/	/	/	/	/	/				
	5500MHz	16.46	/	/	/	/	/	/	/				
	5580MHz	17.41	/	/	/	/	/	/	/				





5700MHz	18.59	18.56	17.26	18.27	17.27	16.46	16.48	16.41
5720MHz	18.57	/	/	/	/	/	/	/

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

#### 802.11n-HT20 mode

					Test Res	ult (dBm)			
Mode	Frequency				Data	Rate			
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	5180MHz	16.86	16.57	16.02	16.01	14.48	14.44	14.44	14.35
	5200MHz	16.26	/	/	/	/	/	/	/
	5240MHz	16.51	/	/	/	/	/	/	/
	5260MHz	16.32	/	/	/	/	/	/	/
802.11n	5280MHz	16.14	/	/	/	/	/	/	/
(HT20)	5320MHz	15.99	/	/	/	/	/	/	/
	5500MHz	16.17	/	/	/	/	/	/	/
	5580MHz	16.60	/	/	/	/	/	/	/
	5700MHz	16.42	/	/	/	/	/	/	/
	5720MHz	16.97	/	/	/	/	/	/	/

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

#### 802.11ac-HT20 mode

					Test	Result (d	dBm)			
Mode	Channel					Data Rate	9			
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
	5180MHz	16.11	14.98	15.90	15.88	15.25	15.23	14.31	14.30	13.33
	5200MHz	16.17	/	/	/	/	/	/	/	/
	5240MHz	16.66	/	/	/	/	/	/	/	/
	5260MHz	16.40	/	/	/	/	/	/	/	/
802.11ac	5280MHz	16.21	/	/	/	/	/	/	/	/
(HT20)	5320MHz	16.03	/	/	/	/	/	/	/	/
	5500MHz	16.32	/	/	/	/	/	/	/	/
	5580MHz	16.61	/	/	/	/	/	/	/	/
	5700MHz	16.57	/	/	/	/	/	/	/	/
	5720MHz	16.56	/	/	/	/	/	/	/	/

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

### 802.11n-HT40 mode

				•	Test Res	ult (dBm	)		
Mode	Frequency	Data Rate							
		MCS0	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7						
802.11n	5190MHz	16.16	15.19	15.21	15.08	14.65	14.66	12.80	12.71





(HT40)	5230MHz	16.42	/	/	/	/	/	/	/
	5270MHz	16.39	/	/	/	/	/	/	/
	5310MHz	16.20	/	/	/	/	/	/	/
	5510MHz	16.27	/	/	/	/	/	/	/
	5550MHz	16.34	/	/	/	/	/	/	/
	5670MHz	16.79	/	/	/	/	/	/	/
	5710MHz	16.87	/	/	/	/	/	/	/

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

#### 802.11ac-HT40 mode

	Eroguen					Test Res	ult (dBm)	)	Test Result (dBm)										
Mode	Frequen					Data	Rate												
	су	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9								
	5190MHz	16.17	15.24	15.22	15.11	14.64	14.67	13.68	13.61	11.80	11.77								
	5230MHz	16.37	/	/	/	/	/	/	/	/	/								
	5270MHz	16.41	/	/	/	/	/	/	/	/	/								
802.11ac	5310MHz	16.21	/	/	/	/	/	/	/	/	/								
(HT40)	5510MHz	16.29	/	/	/	/	/	/	/	/	/								
	5550MHz	16.37	/	/	/	/	/	/	/	/	/								
	5670MHz	16.77	/	/	/	/	/	/	/	/	/								
	5710MHz	16.63	/	/	/	/	/	/	/	/	/								

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

#### 802.11ac-HT80 mode

	Eroguen					Test Res	ult (dBm	)			
Mode	Frequen	Data Rate									
	су	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
	5210MHz	12.92	12.57	12.59	12.58	12.07	12.05	11.27	11.31	10.22	9.26
902 1100	5290MHz	13.72	/	/	/	/	/	/	/	/	/
802.11ac (HT80)	5530MHz	14.32	/	/	/	/	/	/	/	/	/
(1100)	5610MHz	14.41	/	/	/	/	/	/	/	/	/
	5690MHz	14.28	/	/	/	/	/	/	/	/	/

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

**Conclusion: PASS** 





### A.3. Peak Power Spectral Density (conducted)

#### **Measurement Limit:**

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

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

### **Measurement Results:**

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
	5180 MHz	7.73	Р
	5200 MHz	7.44	Р
	5240 MHz	8.57	Р
	5260 MHz	8.64	Р
000 110	5280 MHz	8.24	Р
802.11a	5320 MHz	8.50	Р
	5500 MHz	8.16	Р
	5580 MHz	8.05	Р
	5700 MHz	8.77	Р
	5720 MHz	8.60	Р
	5180 MHz	7.95	Р
	5200 MHz	8.11	Р
	5240 MHz	8.96	Р
	5260 MHz	8.73	Р
802.11n	5280 MHz	8.23	Р
HT20	5320 MHz	8.75	Р
	5500 MHz	8.73	Р
	5580 MHz	8.36	Р
	5700 MHz	8.89	Р
	5720 MHz	8.94	Р
	5180 MHz	7.69	Р
	5200 MHz	7.87	Р
	5240 MHz	8.67	Р
	5260 MHz	8.66	Р
802.11ac	5280 MHz	8.43	Р
HT20	5320 MHz	8.32	Р
	5500 MHz	8.21	Р
	5580 MHz	8.75	Р
	5700 MHz	8.75	Р
	5720 MHz	8.53	Р
802.11n	5190 MHz	3.74	Р





HT40	5230 MHz	4.12	Р
	5270 MHz	4.38	Р
	5310 MHz	4.71	Р
	5510 MHz	4.37	Р
	5550 MHz	4.23	Р
	5670 MHz	4.99	Р
	5710 MHz	4.69	Р
	5190 MHz	3.75	Р
	5230 MHz	4.17	Р
	5270 MHz	4.41	Р
802.11ac	5310 MHz	4.60	Р
HT40	5510 MHz	4.34	Р
	5550 MHz	4.25	Р
	5670 MHz	5.07	Р
	5710 MHz	4.68	Р
	5210MHz	-0.76	Р
802.11ac HT80	5290MHz	-0.74	Р
	5530MHz	0.17	Р
	5610MHz	0.24	Р
	5690 MHz	-0.03	Р

**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:**

Mode	Frequency	Occupied 26dB Bandwidth ( MHz)		conclusion
	5400 MU-	•		
	5180 MHz	Fig.1	24.25	P
	5200 MHz	Fig.2	23.85	P
	5240 MHz	Fig.3	24.05	<u> </u>
	5260 MHz	Fig.4	23.95	Р
802.11a	5280 MHz	Fig.5	23.95	Р
332	5320 MHz	Fig.6	23.95	Р
	5500 MHz	Fig.7	23.55	Р
	5580 MHz	Fig.8	24.35	Р
	5700 MHz	Fig.9	23.30	Р
	5720 MHz	Fig.10	23.15	Р
	5180 MHz	Fig.11	25.00	Р
	5200 MHz	Fig.12	25.00	Р
	5240 MHz	Fig.13	24.95	Р
	5260 MHz	Fig.14	24.95	Р
802.11n	5280 MHz	Fig.15	24.05	Р
HT20	5320 MHz	Fig.16	24.90	Р
	5500 MHz	Fig.17	24.20	Р
	5580 MHz	Fig.18	24.85	Р
	5700 MHz	Fig.19	24.20	Р
	5720 MHz	Fig.20	23.95	Р
	5180 MHz	Fig.21	24.70	P
	5200 MHz	Fig.22	24.10	Р
	5240 MHz	Fig.23	25.00	P
	5260 MHz	Fig.24	24.80	 P
802.11ac	5280 MHz	Fig.25	24.65	 P
HT20	5320 MHz	Fig.26	24.95	<u>.</u> Р
20	5500 MHz	Fig.27	24.40	 Р
	5580 MHz	Fig.28	24.95	' P
	5700 MHz	Fig.29	24.95	<u>'</u> Р
	5700 MHz	_	24.23	<u>г</u> Р
	5/∠U IVIHZ	Fig.30	24.00	Ρ





	5190 MHz	Fig.31	41.28	Р
	5230 MHz	Fig.32	41.76	Р
	5270 MHz	Fig.33	41.60	Р
802.11n	5310 MHz	Fig.34	41.60	Р
HT40	5510 MHz	Fig.35	41.60	Р
	5550 MHz	Fig.36	41.84	Р
	5670 MHz	Fig.37	41.84	Р
	5710 MHz	Fig.38	41.52	Р
	5190 MHz	Fig.39	41.36	Р
	5230 MHz	Fig.40	41.68	Р
	5270 MHz	Fig.41	41.52	Р
802.11ac	5310 MHz	Fig.42	41.60	Р
HT40	5510 MHz	Fig.43	41.52	Р
	5550 MHz	Fig.44	41.92	Р
	5670 MHz	Fig.45	41.84	Р
	5710 MHz	Fig.46	41.60	Р
	5210MHz	Fig.47	83.84	Р
902 1100	5290MHz	Fig.48	83.84	Р
802.11ac HT80	5530MHz	Fig.49	84.00	Р
	5610MHz	Fig.50	84.00	Р
	5690 MHz	Fig.51	84.32	Р

Conclusion: PASS
Test graphs as below:

Test graphs as below:





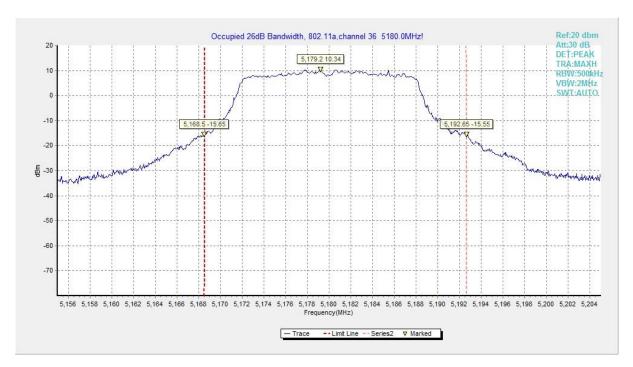


Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

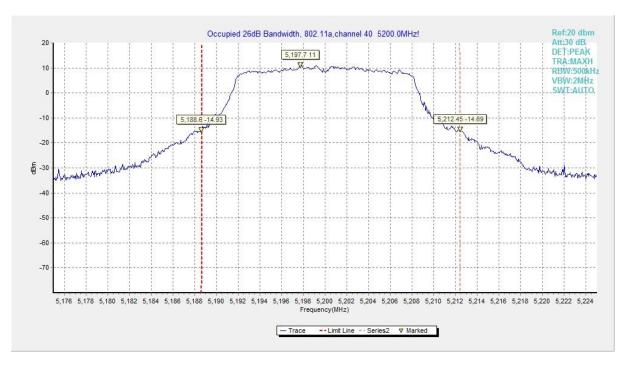


Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)





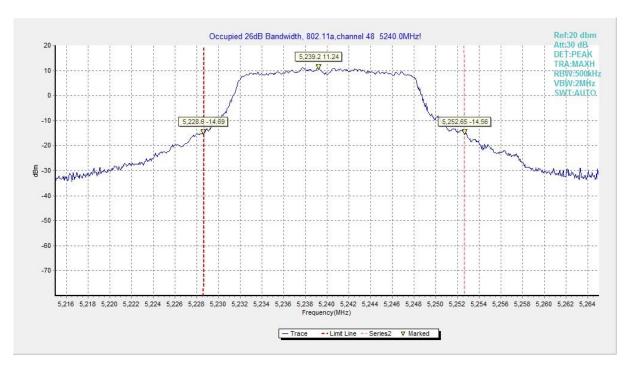


Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

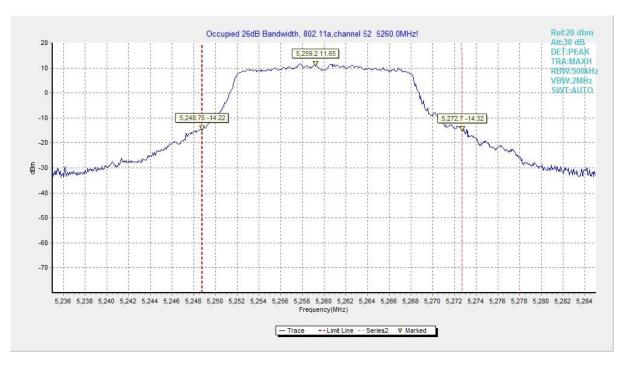


Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)





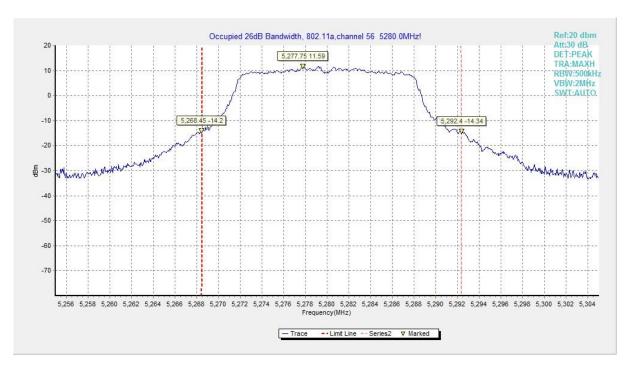


Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

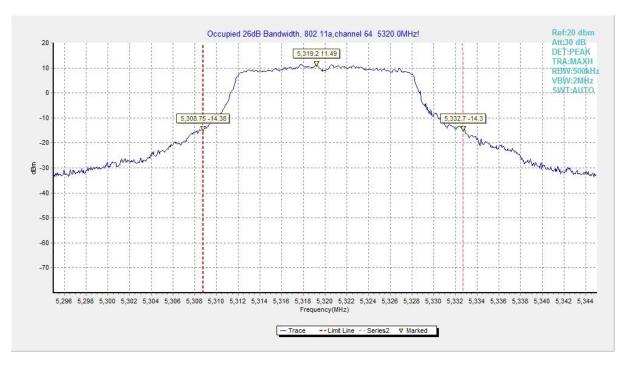


Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)





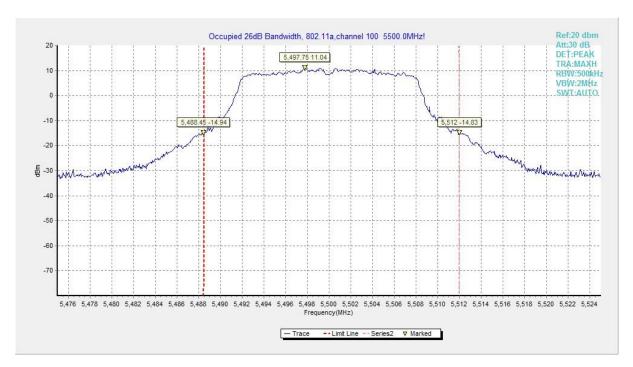


Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)



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





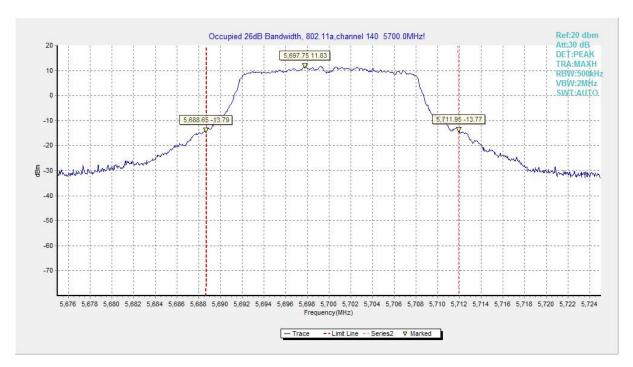


Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)



Fig.10 Occupied 26dB Bandwidth (802.11a, 5720MHz)





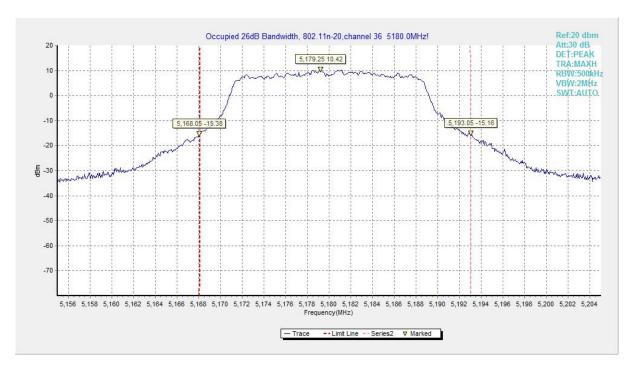


Fig.11 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)

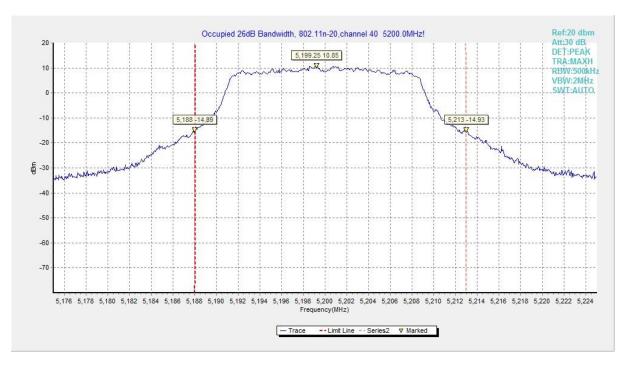


Fig.12 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)





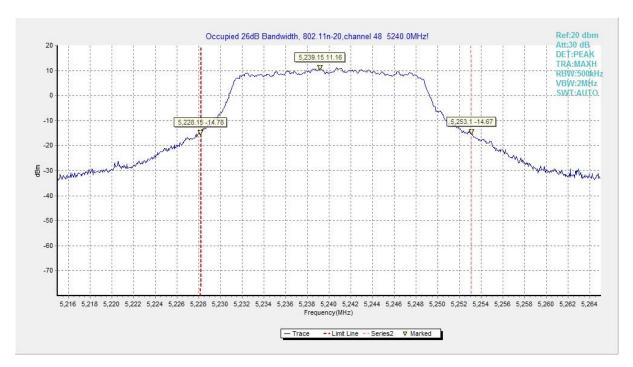


Fig.13 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)

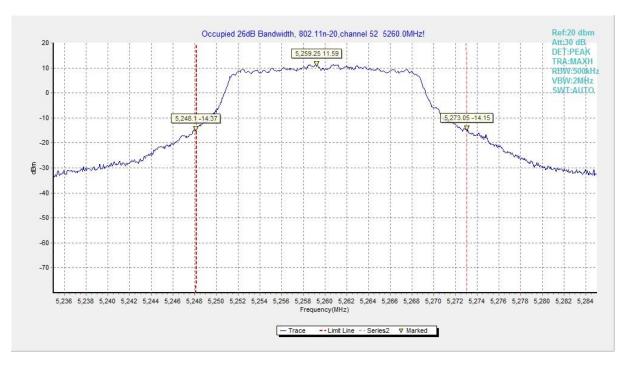


Fig.14 Occupied 26dB Bandwidth (802.11n-HT20, 5260MHz)





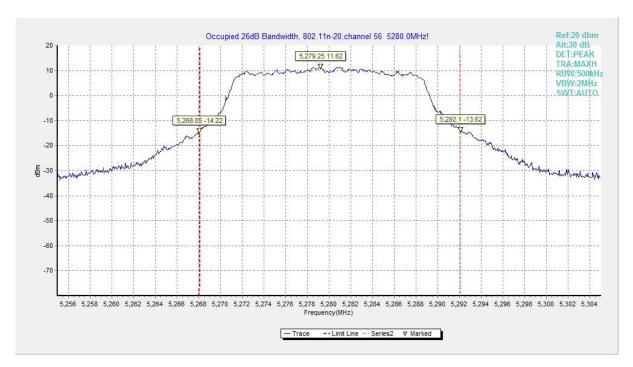


Fig.15 Occupied 26dB Bandwidth (802.11n-HT20, 5280MHz)

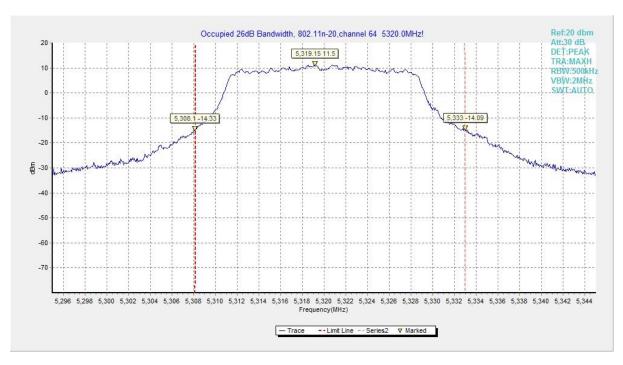


Fig.16 Occupied 26dB Bandwidth (802.11n-HT20, 5320MHz)