

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE171004404

FCC REPORT

Applicant: Plus One Marketing Ltd.

Address of Applicant: 2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, JAPAN

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: FTU18A00

FCC ID: 2AG5L-FTU18A00

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 23 Oct., 2017

Date of Test: 25 Oct., to 12 Dec., 2017

Date of report issued: 13 Dec., 2017

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	13 Dec., 2017	Original

Test Engineer

Reviewed by: Date: 13 Dec., 2017

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result				
Antenna requirement	15.203/15.247 (c)	Pass				
AC Power Line Conducted Emission	15.207	Pass				
Conducted Peak Output Power	15.247 (b)(3)	Pass				
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass				
Power Spectral Density	15.247 (e)	Pass				
Band Edge	15.247(d)	Pass				
Conducted and Radiated Spurious Emission	15.205/15.209	Pass				
Pass: The EUT complies with the essential require	Pass: The EUT complies with the essential requirements in the standard.					



5 General Information

5.1 Client Information

Applicant:	Plus One Marketing Ltd.
Address:	2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, JAPAN
Manufacturer:	Plus one marketing Ltd.
Address:	2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, JAPAN
Factory:	Shenzhen Zhenhua Communication Equipment Co., Ltd
Address:	NO.2, NO.3 building, Zhenhua industrial park, NO.44, TieZai Rd, XiXiang town, BaoAn Area, ShenZhen, Guangdong, China.

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	FTU18A00
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2500mAh
AC adapter with two plugs :	Model: A8A-050150U-US2 Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 1.5A

Operation Frequency each of channel for 802.11b/g/n(H20)							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- 2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
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5.3 Test environment and test mode

Operating Environment:		
Temperature:	24.0 °C	
Humidity:	54 % RH	
Atmospheric Pressure:	1010 mbar	
Test mode:		

Transmitting mode	Keep the EUT in continuous transmitting	with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty	
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)	
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)	
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)	
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)	
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)	



5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



5.8 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	02-25-2017	02-24-2018	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2017	02-24-2018	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2017	02-24-2018	
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A	
Pre-amplifier	HP	8447D	2944A09358	02-25-2017	02-24-2018	
Pre-amplifier	CD	PAP-1G18	11804	02-25-2017	02-24-2018	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2017	02-24-2018	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2017	02-24-2018	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	02-25-2017	02-24-2018	
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2017	02-24-2018	
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2017	02-24-2018	

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	02-25-2017	02-24-2018	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	02-25-2017	02-24-2018	
LISN	CHASE	MN2050D	1447	02-25-2017	02-24-2018	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018	
Cable	HP	10503A	N/A	02-25-2017	02-24-2018	
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A	



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:

FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1dBi.







6.2 Conducted Emission

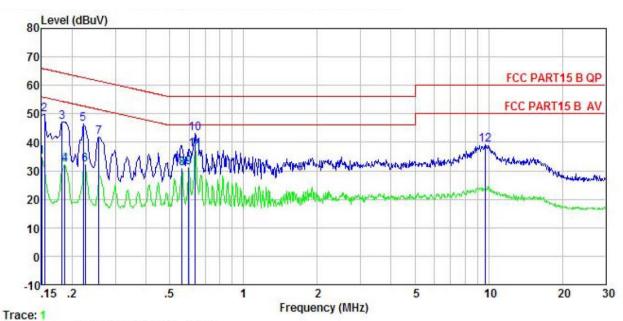
Test Requirement:	FCC Part 15 C Section 1	5.207					
Test Method:		ANSI C63.10: 2013					
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kl	 Ц ₇					
·	Frequency range	Limit (4D:1//)				
Limit:	(MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the log						
Test procedure	line impedance stab 50ohm/50uH coupling 2. The peripheral device a LISN that provides termination. (Please photographs). 3. Both sides of A.C. light interference. In order positions of equipments	a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).					
Test setup:	AUX Equipment Test table/Insula Remark: E.U.T. Equipment Under LISN: Line Impedence State Test table height=0.8m	E.U.T EMI Receiver	I Ilter — AC power				
Test Instruments:	Refer to section 5.8 for d	etails					
Test mode:	Refer to section 5.3 for d	etails					
Test results:	Passed						





Measurement Data:

Neutral:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: Mobile Phone EUT : FTU18A00 Model Test Mode : WIFI mode

Power Rating: AC 120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: Carey

Remark

(emark								
		Read	LISN	Cable		Limit	Over	D 1
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
-	MHz	dBu∀	₫B	₫B	dBu₹	dBu₹	<u>dB</u>	
1	0.150	24.30	-0.38	10.78	34.70	56.00	-21.30	Average
2	0.154	39.33	-0.38	10.78	49.73	65.78	-16.05	QP
3	0.182	36.80	-0.35	10.77	47.22	64.42	-17.20	QP
4	0.186	21.84	-0.35	10.76	32.25	54.20	-21.95	Average
5	0.222	36.01	-0.33	10.76	46.44	62.74	-16.30	QP
6	0.226	21.84	-0.33	10.75	32.26	52.61	-20.35	Average
7	0.258	31.47	-0.33	10.75	41.89	61.51	-19.62	QP
2 3 4 5 6 7 8 9	0.561	20.43	-0.30	10.76	30.89	46.00	-15.11	Average
9	0.598	20.67	-0.30	10.77	31.14	46.00	-14.86	Average
10	0.634	32.53	-0.30	10.77	43.00		-13.00	
11	0.634	26.88	-0.30	10.77	37.35	46.00	-8.65	Average
12	9.654	27.77	0.30	10.92	38.99	60.00	-21.01	QP

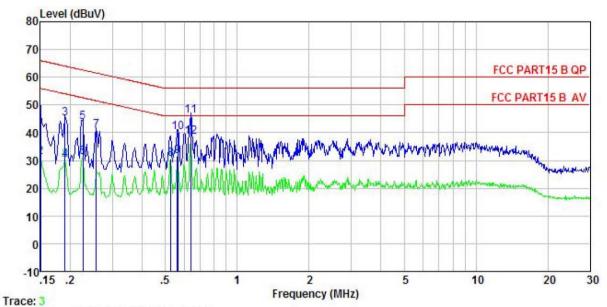
Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





Line:



: CCIS Shielding Room : FCC PART15 B QP LISN LINE Site Condition

: Mobile Phone EUT : FTU18A00 Model Test Mode : WIFI mode

Power Rating: AC 120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	<u>dB</u>		dBu₹	—dBu√	<u>ab</u>	
1	0.150	35.47	-0.56	10.78	45.69	66.00	-20.31	QP
2	0.150	20.98	-0.56	10.78	31.20	56.00	-24.80	Average
1 2 3	0.190	34.77	-0.53	10.76	45.00	64.02	-19.02	QP
4	0.190	19.95	-0.53	10.76	30.18	54.02	-23.84	Average
5	0.226	33.49	-0.52	10.75	43.72		-18.89	
6	0.226	20.93	-0.52	10.75	31.16	52.61	-21.45	Average
7	0.258	30.67	-0.51	10.75	40.91	61.51	-20.60	QP
4 5 6 7 8 9	0.527	20.26	-0.49	10.76	30.53	46.00	-15.47	Average
9	0.561	21.19	-0.49	10.76	31.46	46.00	-14.54	Average
10	0.567	29.81	-0.49	10.76	40.08		-15.92	
11	0.637	35.68	-0.48	10.77	45.97	56.00	-10.03	QP
12	0.637	28.05	-0.48	10.77	38.34	46.00	-7.66	Average

Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 9.2.2.2					
Limit:	30dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

	oudul official buttar								
Test CH	Ma	aximum Conduct	Limit(dBm)	Result					
	802.11b	802.11g	Limit(dBin)	Nesuit					
Lowest	15.78	14.82	13.77	11.16		Pass			
Middle	13.63	13.00	12.98	12.04	30.00				
Highest	12.87	12.27	11.92	11.39					





6.4 Occupy Bandwidth

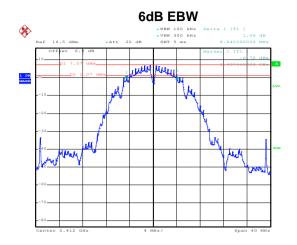
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1					
Limit:	>500kHz					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

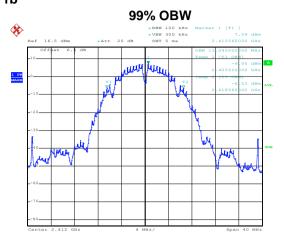
Test CH		6dB Emission	Limit(kHz)	Result			
1631 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(Kriz)	Nesuit	
Lowest	8.64	16.56	17.76	35.52			
Middle	8.32	16.64	17.76	17.76 35.52		Pass	
Highest	8.24	16.48	17.76 35.84				
Test CH		99% Occupy	Limit(kHz)	Result			
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Ell'III(Ki 12)	rtosuit	
Lowest	13.04	16.64	17.76	36.00			
Middle	13.12	16.64	17.76	36.00	N/A	N/A	
Highest	13.12	16.56	17.76	36.00			



Test plot as follows:



802.11b

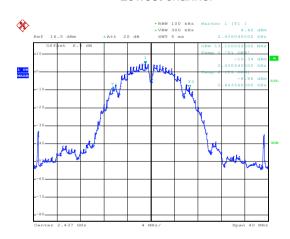


Date: 27.0CT.2017 18:30:41

Lowest channel







Middle channel

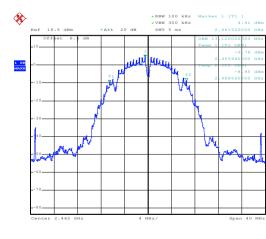
Date: 27.0CT.2017 18:35:00

Date: 27.0CT.2017 18:36:22

Date: 27.OCT.2017 18:22:26

Date: 27.0CT.2017 18:22:50

Middle channel



* RBW 100 kHz Delta 1 (71)
* YBW 300 kHz Delta 1 (71)
*

Date: 27.0CT.2017 18:23:16

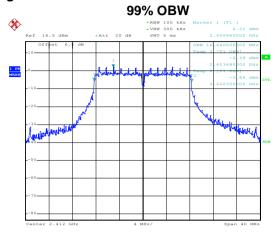
Highest channel

Highest channel

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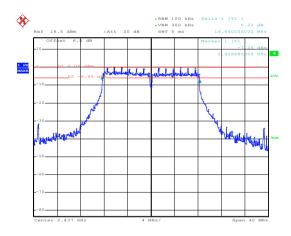
802.11g

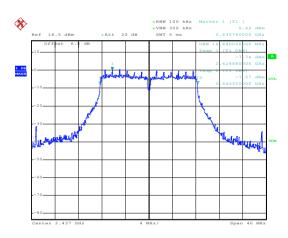


Date: 27.0CT.2017 18:37:47

Lowest channel

Lowest channel





Date: 27.0CT.2017 18:40:55

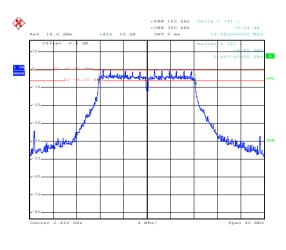
Date: 27.0CT.2017 18:41:44

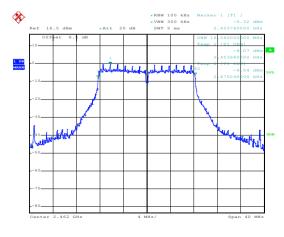
Date: 27.OCT.2017 18:24:31

Date: 27.0CT.2017 18:29:30

Middle channel

Middle channel





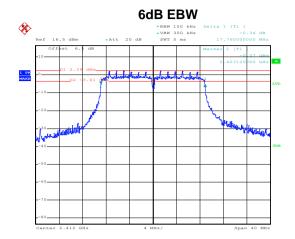
Highest channel

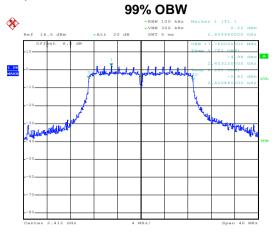
Highest channel

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802.11n(H20)

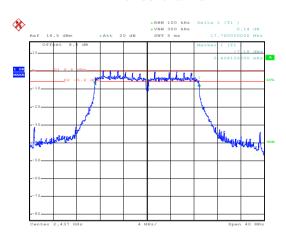




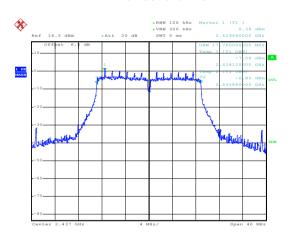
Date: 27.0CT.2017 18:43:51

Date: 27.OCT.2017 18:26:10

Lowest channel



Lowest channel

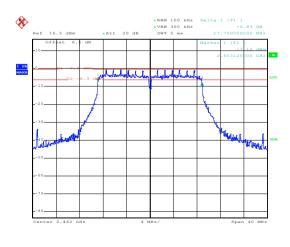


Date: 27.OCT.2017 18:44:43

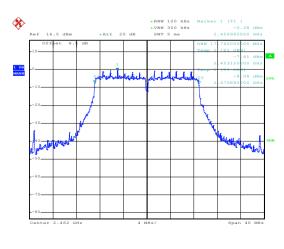
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Date: 27.OCT.2017 18:26:34

Middle channel



Middle channel



Date: 27.OCT.2017 18:26:53

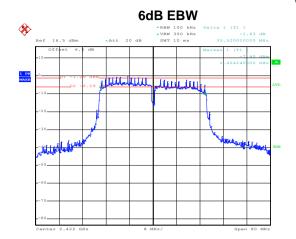
Highest channel

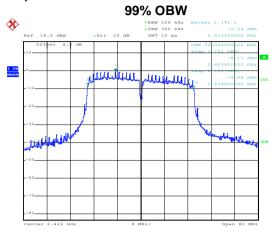
Highest channel

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802.11n(H40)

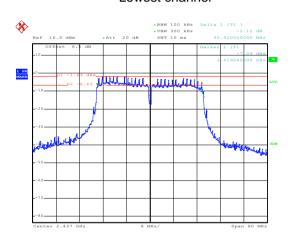




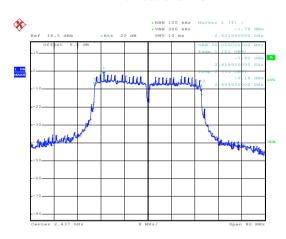
Date: 27.0CT.2017 18:47:32

Date: 27.OCT.2017 18:27:43

Lowest channel



Lowest channel

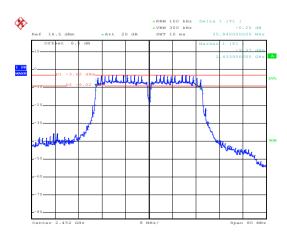


Date: 27.OCT.2017 18:48:34

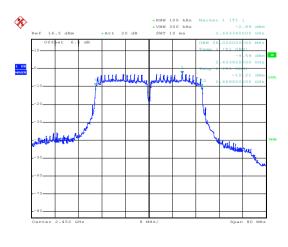
Date: 27.0CT.2017 18:49:23

Date: 27.0CT.2017 18:28:07

Middle channel



Middle channel



Date: 27.OCT.2017 18:28:38

Highest channel

Highest channel

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2					
Limit:	8dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

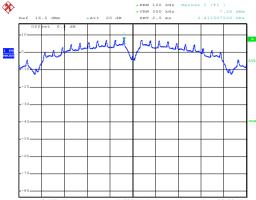
Measurement Data:

-									
Test CH		Power Spec	Limit(dBm)	Result					
	rest Cri	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	Nesuit		
	Lowest	7.26	2.11	2.27	-0.34				
ĺ	Middle	4.68	0.48	0.48	-1.71	8.00	Pass		
	Highest	4.38	-0.56	-0.33	-3.01				

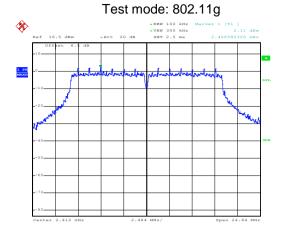


Test plot as follows:

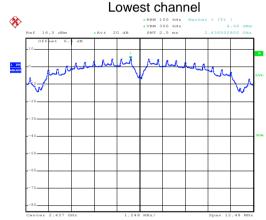




Date: 27.OCT.2017 18:58:33



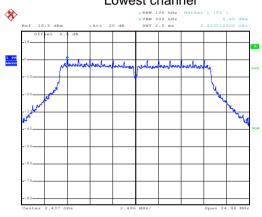
Date: 27.0CT.2017 19:00:42



Date: 27.OCT.2017 18:59:24

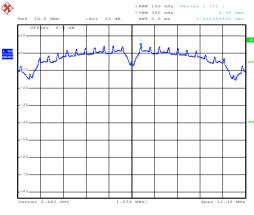
Date: 27.0CT.2017 18:59:52

Lowest channel

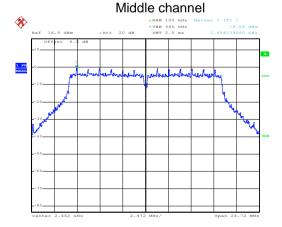


Date: 27.0CT.2017 19:01:47

Middle channel



Highest channel

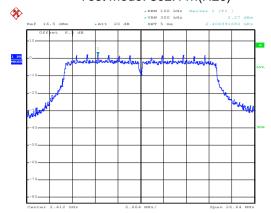


Date: 27.OCT.2017 19:02:14

Highest channel



Test mode: 802.11n(H20)



Maria Maria

Test mode: 802.11n(H40)

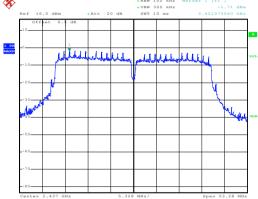
Date: 27.0CT.2017 19:02:49



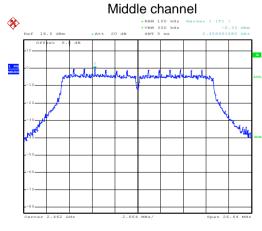
Date: 27.0CT.2017 19:04:28

*

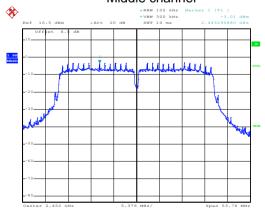
Lowest channel



Date: 27.OCT.2017 19:03:42



Middle channel



Date: 27.0CT.2017 19:05:18

Highest channel

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Highest channel





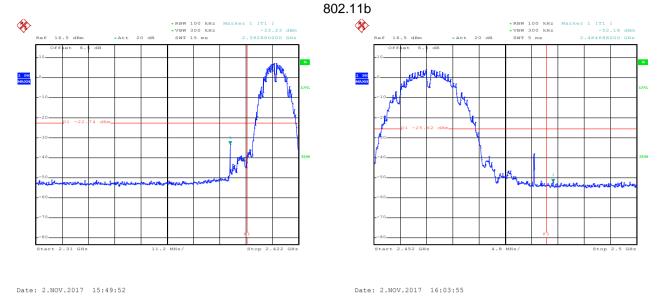
6.6 Band Edge

6.6.1 Conducted Emission Method

0.0.1 Conducted Linission	i Metriou							
Test Requirement:	FCC Part 15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 13							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 5.8 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

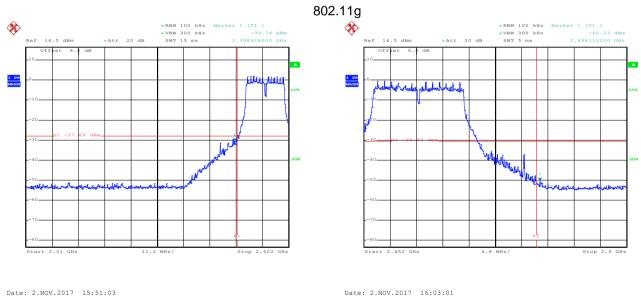


Test plot as follows:



Lowest channel

Highest channel

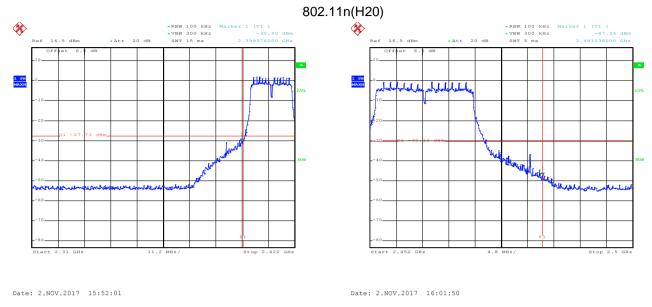


Lowest channel

Highest channel

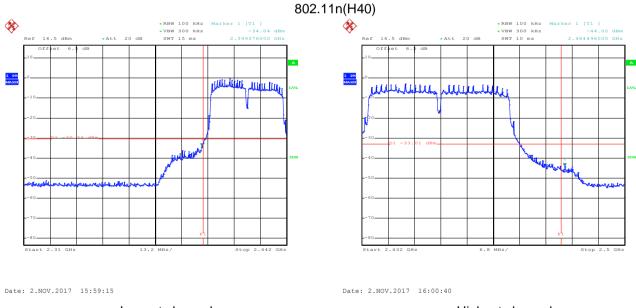






Lowest channel

Highest channel



Lowest channel

Highest channel



6.6.2 Radiated Emission Method

<u>6.6.2</u>	2 Radiated Emission Method									
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
	Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1								
	Test Frequency Range:	2.3GHz to 2.5GHz								
	Test Distance:	3m								
	Receiver setup:	Frequency	Detect	or	RBW	V	BW	Remark		
		Above 1GHz	Peak		1MHz		MHz	Peak Value		
	1 locality	Frequenc	RMS		1MHz nit (dBuV/m @:		ИHz	Average Value Remark		
	Limit:	•		LIII	54.00	3111)	A۱	verage Value		
		Above 1GI	Hz		74.00			Peak Value		
	Test potuni	the ground to determin 2. The EUT wantenna, wantenna, wantenna and the ground Both horizon make the make the make and to find the maters and to find the material find the materia	at a 3 me e the post as set 3 hich was ha height to detern that and heasurem uspected hen the a the rota maximum ceiver system of the color of the color of the would be margin were the post of the color of the col	eter (sition meter mou is va nine everti nent. emis nten vate i rea vett fren vett emis nten vett emis emis emis emis emis emis emis emis	camber. The ta of the highest ers away from to inted on the top dried from one of the maximum of cal polarization assion, the EUT ha was turned from the was turned from ding. In was set to Per in Maximum Ho he EUT in peak desting could be corted. Otherwise	able was a meter value as of the was a o height a mode a stoppes the pine by	vas rota tion. erference variable to four of the fine antel errange tect Fundegrees tect Fundegrees tect arcolor emission	meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and OdB lower than d the peak values ons that did not sing peak, quasi-		
	Test setup:	No. 150cm	AE EL (Tumtable	,	3m Ground Reference Plane	n Artenna	Antenna Too	wer		
	Test Instruments:	Refer to section	5.8 for d	etails	3					
	Test mode:	Refer to section	5.3 for d	etails	3					
	Test results:	Passed								
								-		

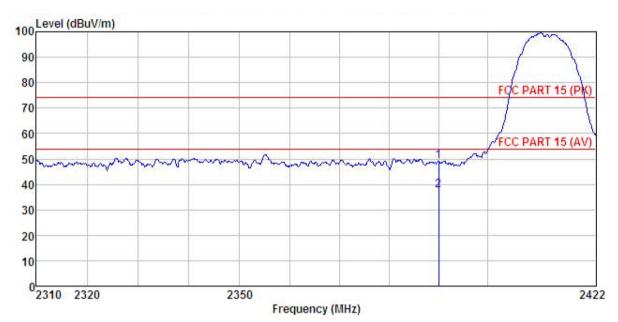




802.11b

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : Mobile Phone Condition

EUT Model : FTU18A00 Test mode : 802.11B-L mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55% 101KPa Test Engineer: Carey

REMARK

	Freq		Antenna Factor					
,	MHz	−−dBuV	dB/m	 <u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1 2	2390.000 2390.000							

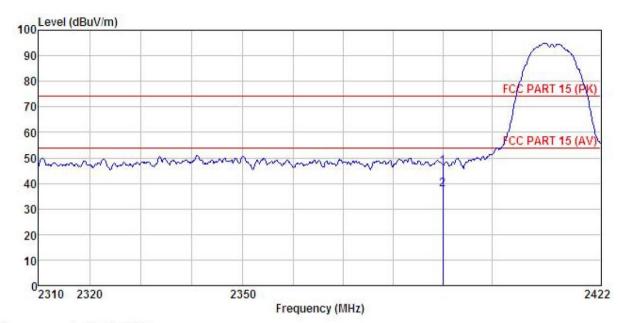
Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor. 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL Condition

EUT : Mobile Phone Model : FTU18A00 Test mode : 802.11B-L mode Power Rating: AC 120V/60Hz Environment: Temp: 25.5°C Huni: 55% 101KPa Test Engineer: Carey

REMARK

in .	ReadAntenna		Cable	Preamn		Limit	Over		
Freq		Factor						Remark	
MHz	dBu∇	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
2390.000 2390.000									

Remark:

1 2

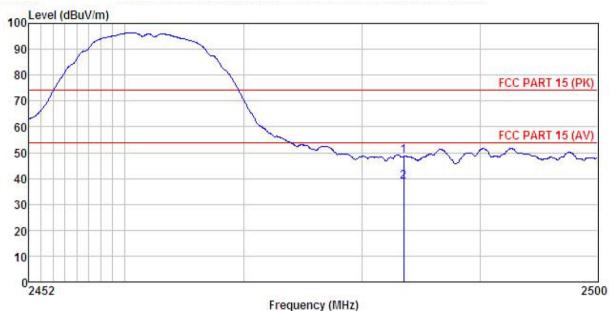
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL Condition

EUT : Mobile Phone : FTU18A00 Model Test mode : 802.11B-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: Carey REMARK :

м	m :									
Eros		ReadAntenna Level Factor		Cable Preamp						
	rred	rever	ractor	FOSS	ractor	rever	Line	LIMIT	Kemark	
	MHz	dBu∀	dB/m	d₿	d₿	dBuV/m	dBuV/m	dB		-
	2483.500	18.06	25.66	4.81	0.00	48.53	74.00	-25.47	Peak	
	2483, 500	8, 13	25, 66	4.81	0.00	38, 60	54,00	-15.40	Average	

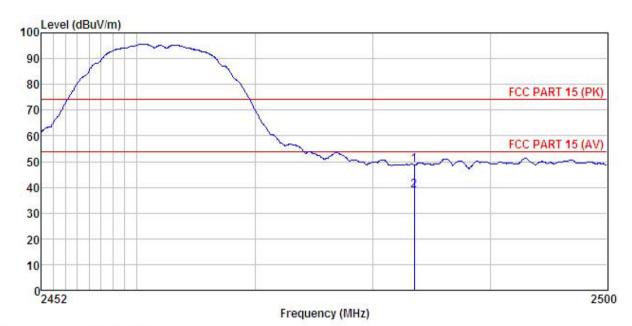
Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Vertical:



: 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL

: Mobile Phone : FTU18A00 EUT Model Test mode : 802.11B-H mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: Carey

REMARK

K									
	ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
			25.66						Peak

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

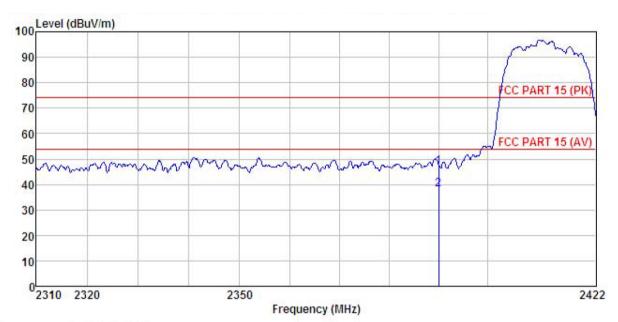




802.11g

Test channel: Lowest

Horizontal:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : Mobile Phone Condition

EUT : FTU18A00 Model Test mode : 802.11G-L mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55% 101KPa

Test Engineer: Carey

REMARK

	Freq	ReadAntenna Level Factor							
2	MHz	dBu∜		 <u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B		
	2390.000 2390.000								

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor. 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.