Report No: CCISE170600105

# **FCC REPORT**

**Applicant:** Plus One Marketing Ltd.

Address of Applicant: Sumitomofudosan Hibiya building 2F, 2-8-6 Shinbashi,

Minatoku, Tokyo, Japan

**Equipment Under Test (EUT)** 

Product Name: Smart Phone

Model No.: ÖWN FUN PLUS, FTU17B00

Trade mark: ÖWN, Freetel

FCC ID: 2AG5L-FTU161G

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 01 Jun., 2017

**Date of Test:** 02 Jun., to 14 Jun., 2017

Date of report issued: 16 Jun., 2017

Test Result: Pass \*

#### 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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.





### 2 Version

Version No.	Date	Description	
		This report was amended on FCC ID:	
		2AG5L-FTU161G follow FCC Class II	
		Permissive Change which were tested and	
		issued by Shenzhen Zhongjian Nanfang	
00	16 Jun., 2017	Testing Co., Ltd.	
		The differences between them as below.	
		Memory and camera mode. Base on the	
		differences description, the FCC Part 15	
		Subpart B were re-tested.	

Tested by:	Peterzhu	Date:	16 Jun., 2017	
	Test Engineer			
Reviewed by:	Ryan. Lee	Date:	16 Jun., 2017	
	Project Engineer			





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## 4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



### 5 General Information

### **5.1 Client Information**

Applicant:	Plus One Marketing Ltd.
Address of Applicant:	Sumitomofudosan Hibiya building 2F, 2-8-6 Shinbashi, Minatoku, Tokyo, Japan
Manufacturer:	Nollec Wireless Co.,Ltd.
Address of Manufacturer:	Tower A North, TCL Building, High-tech Industrial Park, Nanshan Dist, Shenzhen, China

### 5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	ÖWN FUN PLUS, FTU17B00
Power supply:	Rechargeable Li-ion Battery DC3.7V-2800mAh
AC adapter :	Model: ÖWN Fun+ Input:100-300V AC,50/60Hz 0.2A Output:5V DC MAX 1A
Remark:	The No.: ÖWN FUN PLUS, FTU17B00 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

### 5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m 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.

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### 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	T8	N/A	FCC ID

### 5.5 Laboratory Facility

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

#### • FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

#### • 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.

### 5.6 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





### 5.7 Test Instruments list

Radia	Radiated Emission:									
Item Test Equipment		Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017				
2	BiConiLog Antenna	SCHWARZBECK	SCHWARZBECK VULB9163		03-25-2017	03-24-2018				
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2017	03-24-2018				
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	03-25-2017	03-24-2018				
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	03-25-2017	03-24-2018				
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-25-2017	03-24-2018				
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-25-2017	03-24-2018				

Conducted Emission:									
Item Test Equipment Manufacturer Model No. Inventory Cal.Date Cal									
Item	rest Equipment	Wallulacturei	WIOGEI NO.	No.	(mm-dd-yy)	(mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-25-2017	03-24-2018			
3	LISN	CHASE	MN2050D	CCIS0074	03-25-2017	03-24-2018			
4	Coaxial Cable	CCIS	N/A	CCIS0086	03-25-2017	03-24-2018			



### 6 Test results and Measurement Data

### **6.1 Conducted Emission**

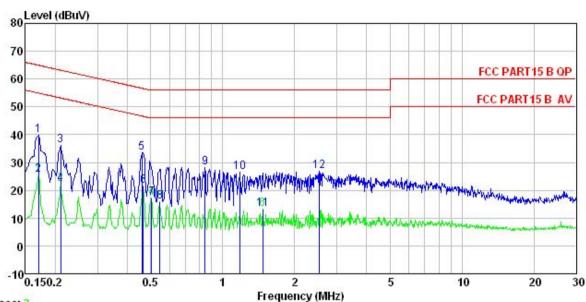
Test Requirement:	FCC Part 15 B Section 15.10	07				
Test Method:	ANSI C63.4:2009					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Li	mit (dBµV)			
		Quasi-peak		Average		
	0.15-0.5	66 to 56*		56 to 46*		
	0.5-5	56		46		
	0.5-30  * Decreases with the logarith	60	,	50		
Test setup:	Reference Plan	· · · ·	•			
	Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure	<ol> <li>The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedances are a LISN that provides a 500 termination. (Please refers photographs).</li> <li>Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4:</li> </ol>	on network (L.I.S.N.) pedance for the me e also connected to phm/50uH coupling s to the block diagra e checked for maxi and the maximum er d all of the interface	). The provious asuring equipote the main point impedance am of the temum conduringsion, the exables mu	de a ipment. ower through with 50ohm st setup and cted relative st be changed		
Test environment:	Temp.: 23 °C Hum	nid.: 56%	Press.:	101kPa		
Measurement Record:		i	Uncertain	ty: ±3.28dB		
Test Instruments:	Refer to section 5.7 for details					
		Refer to section 5.3 for details				
Test mode:	Refer to section 5.3 for detail	ls				





#### Measurement data:





Trace: 3

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : Smart Phone : ?WN FUN PLUS Site Condition

EUT Model

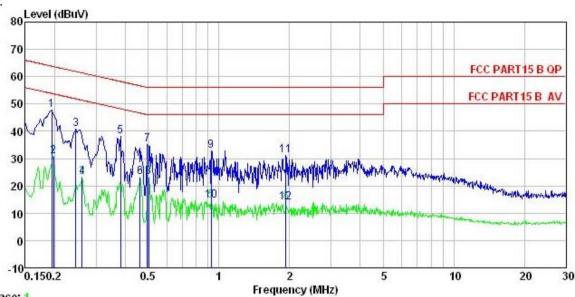
Test Mode : Charging&Recording mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: Peter Remark

/emark								
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>	ab a	dBu₹	dBu√	<u>ab</u>	
1	0.170	28.89	0.14	10.77	39.80	64.94	-25.14	QP
2	0.170	14.52	0.14	10.77	25.43	54.94	-29.51	Average
3	0.211	25.14	0.15	10.76	36.05	63.18	-27.13	QP
4	0.211	11.18	0.15	10.76	22.09	53.18	-31.09	Average
5	0.459	22.48	0.24	10.75	33.47	56.71	-23.24	QP
6	0.466	10.58	0.24	10.75	21.57	46.58	-25.01	Average
1 2 3 4 5 6 7 8	0.505	6.15	0.24	10.76	17.15	46.00	-28.85	Average
8	0.546	5.01	0.26	10.76	16.03	46.00	-29.97	Average
9	0.844	17.01	0.29	10.82	28.12	56.00	-27.88	QP
10	1.184	15.44	0.27	10.89	26.60	56.00	-29.40	QP
11	1.472	2.03	0.29	10.92	13.24	46.00	-32.76	Average
12	2.527	15.63	0.33	10.94	26.90	56.00	-29.10	QP







Trace: 1

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : Smart Phone : ?WN FUN PLUS Condition EUT

Model

Test Mode : Charging&Recording mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Peter

Remark

.comun	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
500	MHz	₫₿uѶ	<u>d</u> B	₫B	dBu∀	dBu∀	<u>dB</u>	
1	0.194	36.83	0.15	10.76	47.74	63.84	-16.10	QP
2	0.198	20.09	0.15	10.76	31.00	53.71	-22.71	Average
3	0.246	29.92	0.17	10.75	40.84	61.91	-21.07	QP
1 2 3 4 5 6 7 8 9	0.262	12.42	0.18	10.75	23.35	51.38	-28.03	Average
5	0.381	27.06	0.22	10.72	38.00	58.25	-20.25	QP
6	0.461	12.20	0.24	10.75	23.19	46.67	-23.48	Average
7	0.497	24.14	0.24	10.76	35.14	56.05	-20.91	QP
8	0.502	12.07	0.24	10.76	23.07	46.00	-22.93	Average
9	0.928	21.77	0.27	10.85	32.89	56.00	-23.11	QP
10	0.928	3.46	0.27	10.85	14.58	46.00	-31.42	Average
11	1.928	19.92	0.26	10.96	31.14	56.00	-24.86	QP
12	1.928	2.81	0.26	10.96	14.03	46.00	-31.97	Average

#### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



### 6.2 Radiated Emission

0.2 Radiated Ellission									
Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:200	)9							
Test Frequency Range:	30MHz to 6000f	MHz							
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)			
Receiver setup:	Frequency	Dete		RBW	VB\		Remark		
	30MHz-1GHz	Quasi-		120kHz 1MHz	300k		Quasi-peak Value		
	Above 1GHz	Pea RM	3MF						
Limit:	RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m)						Average Value Remark		
Littiit.	30MHz-88M		LIIIII	40.0	20111)	(	Quasi-peak Value		
	88MHz-216N			43.5			Quasi-peak Value		
	216MHz-960			46.0			Quasi-peak Value		
	960MHz-1G			54.0			Quasi-peak Value		
				54.0			Average Value		
	Above 1GI	ĦΖ		74.0			Peak Value		
	Below 1GHz  Antenna Tower  Search Antenna  RF Test Receiver								
	Table Ground Plane								
	Above 1GHz								
	**************************************	E EUT	Horn Antenna Tower  3m						





Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
	<ol><li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li></ol>							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.							
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.							
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.							
Test environment:	Temp.:         25 °C         Humid.:         55%         Press.:         1 01kPa							
Measurement Record:	Uncertainty: ±4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results: Passed								

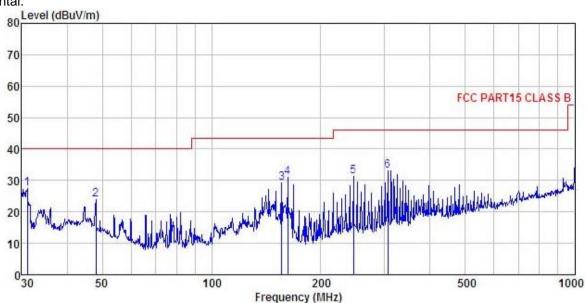




#### **Measurement Data**

#### **Below 1GHz**

Horizontal:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL : Smart Phone : OWN FUN PLUS Condition

EUT Model

Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa

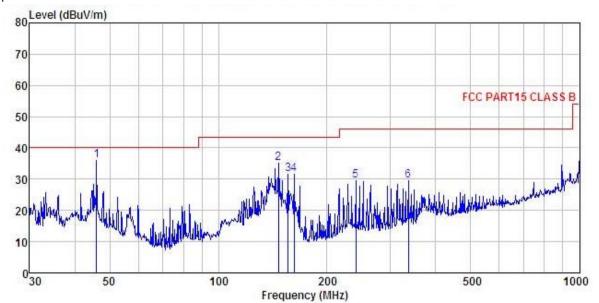
Test Engineer: Peter REMARK

AARMIC .										
	Freq		Antenna Factor				Limit Line	Over Limit		
	MHz	dBuV	—dB/m	<u>d</u> B	<u>dB</u>	dBu√/m	dBuV/m	<u>dB</u>		-
1	31.071	44.06	12.71	0.78	29.97	27.58	40.00	-12.42	QP	
1 2 3 4 5	47.994	36.47	16.10	1.27	29.84	24.00	40.00	-16.00	QP	
3	155.910	45.65	10.19	2.56	29.17	29.23	43.50	-14.27	QP	
4	162.041	47.71	9.88	2.60	29.12	31.07	43.50	-12.43	QP	
5	245.951	45.31	11.86	2.81	28.56	31.42	46.00	-14.58	QP	
6	305.680	45.79	12.87	2.96	28.46	33.16	46.00	-12.84	QP	





#### Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL Condition

EUT : Smart Phone : OWN FUN PLUS
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Peter
REMARK :

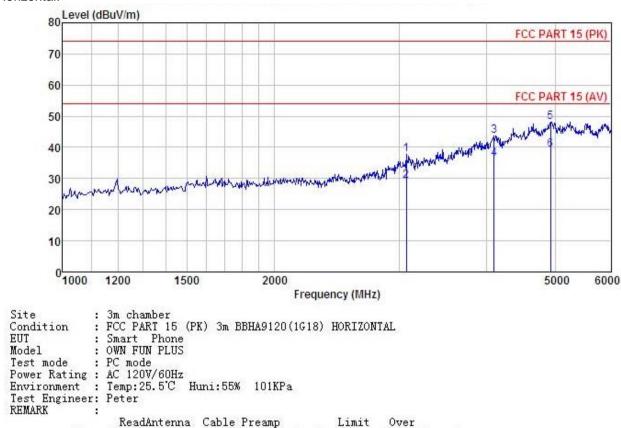
Freq								
MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
46.016	47.35	17.20	1.28	29.85	35.98	40.00	-4.02	QP
146.888	50.95	10.99	2.47	29.24	35.17	43.50	-8.33	QP
155.910	48.14	10.19	2.56	29.17	31.72	43.50	-11.78	QP
162.041	48.30	9.88	2.60	29.12	31.66	43.50	-11.84	QP
239.987	43.42	11.80	2.82	28.59	29.45	46.00	-16.55	QP
336.035	41.23	13.76	3.05	28.53	29.51	46.00	-16.49	QP
	MHz 46.016 146.888 155.910 162.041 239.987	MHz dBuV 46.016 47.35 146.888 50.95 155.910 48.14 162.041 48.30 239.987 43.42	Freq Level Factor  MHz dBuV dB/m  46.016 47.35 17.20 146.888 50.95 10.99 155.910 48.14 10.19 162.041 48.30 9.88 239.987 43.42 11.80	Freq Level Factor Loss  MHz dBuV dB/m dB  46.016 47.35 17.20 1.28 146.888 50.95 10.99 2.47 155.910 48.14 10.19 2.56 162.041 48.30 9.88 2.60 239.987 43.42 11.80 2.82	Freq Level Factor Loss Factor  MHz dBuV dB/m dB dB  46.016 47.35 17.20 1.28 29.85 146.888 50.95 10.99 2.47 29.24 155.910 48.14 10.19 2.56 29.17 162.041 48.30 9.88 2.60 29.12 239.987 43.42 11.80 2.82 28.59	MHz dBuV dB/m dB dB dBuV/m  46.016 47.35 17.20 1.28 29.85 35.98 146.888 50.95 10.99 2.47 29.24 35.17 155.910 48.14 10.19 2.56 29.17 31.72 162.041 48.30 9.88 2.60 29.12 31.66 239.987 43.42 11.80 2.82 28.59 29.45	Freq Level Factor Loss Factor Level Line  MHz dBuV dB/m dB dB dBuV/m dBuV/m  46.016 47.35 17.20 1.28 29.85 35.98 40.00 146.888 50.95 10.99 2.47 29.24 35.17 43.50 155.910 48.14 10.19 2.56 29.17 31.72 43.50 162.041 48.30 9.88 2.60 29.12 31.66 43.50 239.987 43.42 11.80 2.82 28.59 29.45 46.00	Freq Level Factor Loss Factor Level Line Limit  MHz dBuV dB/m dB dB dBuV/m dBuV/m dB  46.016 47.35 17.20 1.28 29.85 35.98 40.00 -4.02 146.888 50.95 10.99 2.47 29.24 35.17 43.50 -8.33 155.910 48.14 10.19 2.56 29.17 31.72 43.50 -11.78 162.041 48.30 9.88 2.60 29.12 31.66 43.50 -11.84 239.987 43.42 11.80 2.82 28.59 29.45 46.00 -16.55





#### **Above 1GHz**

#### Horizontal:

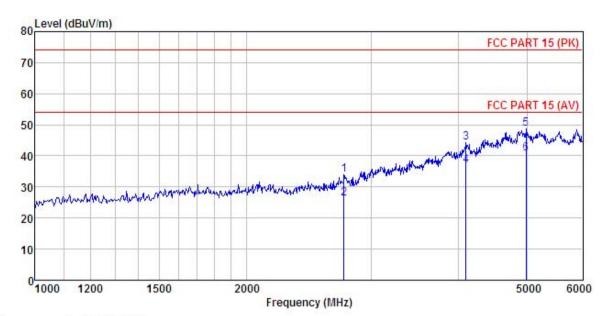


					Cable Preamp Loss Factor		Limit Line	Over Limit	Remark	
<u> </u>	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>		
1	3075.395	47.96	25.97	5.38	41.47	37.84	74.00	-36.16	Peak	
2	3075.395	39.20	25.97	5.38	41.47	29.08	54.00	-24.92	Average	
2	4096.425	46.43	32.74	6.25	41.81	43.61	74.00	-30.39	Peak	
4	4096.425	39.20	32.74	6.25	41.81	36.38	54.00	-17.62	Average	
5	4926.683	46.55	36.58	6.89	41.86	48.16	74.00	-25.84	Peak	
6	4926.683	37.80	36.58	6.89	41.86	39.41	54.00	-14.59	Average	





#### Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Smart Phone : OWN FUN PLUS Condition

: OWN FUN PLUS
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Peter
REMARK : EUT

	Freq		Antenna Factor						
2	MHz	dBu∜	<u>dB</u> /π	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	2747.118	45.88	24.70	5.09	41.71	33.96	74.00	-40.04	Peak
	2747.118	38.19	24.70	5.09	41.71	26.27	54.00	-27.73	Average
3	4096.425	47.09	32.74		41.81				
4	4096.425	39.60	32.74	6.25	41.81	36.78	54.00	-17.22	Average
5	4988.864	46.76	36.84		41.88				
6	4988.864	38.90	36.84	6.93	41.88	40.79	54.00	-13.21	Average