Report No: CCIS15110089205

# **FCC REPORT**

**Applicant:** Creative trading inc

Address of Applicant: 86 Pressed Brick Drive, Brampton, ONT, L6V 4k4, Canada

### **Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: HELLO HM54, HELLO HM58, HELLO HEM7, HELLO HMX5

Trade mark: HELLO!

FCC ID: 2AGLT- HM54

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 17 Nov., 2015

**Date of Test:** 17 Nov., to 25 Nov., 2015

Date of report issued: 25 Nov., 2015

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
00	25 Nov., 2015	Original

Tested by: Date: 25 Nov., 2015

Test Engineer

Reviewed by: 25 Nov., 2015

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:	Creative trading inc			
Address of Applicant:	86 Pressed Brick Drive, Brampton, ONT, L6V 4k4, Canada			
Manufacturer:	Shenzhen Nony Electronics Co., Ltd			
Address of Manufacturer:	Chuangye Building Chuangye Road, Dragon Village Dakang Henggang, Longgang Shenzhen, China			

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

Product Name:	Mobile Phone		
Model No.:	HELLO HM54, HELLO HM58, HELLO HEM7, HELLO HMX5		
Power supply:	Rechargeable Li-ion Battery DC3.7V-3100mAh		
	Model: NOKOKO-3		
AC adapter :	Input:100-240V AC, 50/60Hz 0.5A		
	Output:5V DC MAX 1000mA		

### 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 E		N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	FCC ID
NAKAMICHI	NAKAMICHI Bluetooth earphone		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



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### 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	BiConiLog Antenna SCHWARZBECK		CCIS0005	03-28-2015	03-28-2016				
3	B Horn Antenna SCHWARZBECI		BBHA9120D	CCIS0006	03-28-2015	03-28-2016				
4	Pre-amplifier (10kHz-1.3GHz)		8447D	CCIS0003	04-01-2015	03-31-2016				
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016				
6	Spectrum analyzer 9k-30GHz  Rohde & Schwarz		FSP30	CCIS0023	03-28-2015	03-28-2016				
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016				

Cond	Conducted Emission:										
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date					
itom	item Test Equipment Manuf		model No.	No.	(mm-dd-yy)	(mm-dd-yy)					
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	11-10-2012	11-09-2015					
2	EMI Test Receiver Rohde & Schwarz  LISN CHASE		ESCI	CCIS0002	03-28-2015	03-28-2016					
3			MN2050D	CCIS0074	03-28-2015	03-28-2016					
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016					



### 6 Test results and Measurement Data

### **6.1 Conducted Emission**

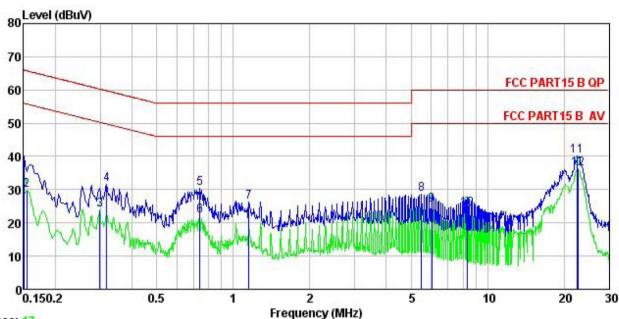
0.15-0.5     66 to 56*     56 to       0.5-5     56     46									
Test Frequency Range:  Class / Severity:  Class B  Receiver setup:  RBW=9kHz, VBW=30kHz  Frequency range (MHz)  Quasi-peak  Aver  0.15-0.5  66 to 56* 56 to  0.5-5  0.5-30 60  * Decreases with the logarithm of the frequency.  Test setup:  Reference Plane  LISN  Aux  EUT: Equipment Under Test LISN Limit (dBµV)  Filter  Ac power  Reference Plane  Test table // Filter  Test table // Filter  Test table // Filter  Test table // Filter  Test procedure  Test procedure  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipme 2. The peripheral devices are also connected to the main power a LISN that provides a 50ohm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  3. Both sides of A.C. line are checked for maximum conducted	Test Requirement:	FCC Part 15 B Section 15.10	)7						
Class / Severity:  Receiver setup:  RBW=9kHz, VBW=30kHz  Limit:  Frequency range (MHz)  Quasi-peak Aver  0.15-0.5 66 to 56* 56 to  0.5-30 60 5t  * Decreases with the logarithm of the frequency.  Reference Plane  LISN  AUX  Equipment Under Test  LISN Line Impedence Stabilization Network  Test table height=0 side height=0 side height=0 side height=0 side  500hm/50uH coupling impedance for the measuring equipmed a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test sephotographs).  3. Both sides of A.C. line are checked for maximum conducted	Test Method:	ANSI C63.4:2009							
Receiver setup:  RBW=9kHz, VBW=30kHz  Limit:  Frequency range (MHz)  Quasi-peak Aver  0.15-0.5 66 to 56* 56 to 0.5-5 56 44 0.5-30 * Decreases with the logarithm of the frequency.  Reference Plane  LISN Aux Equipment E.U.T  Filter Ac power  Remark: EUT Equipment Under Test LISN Line impedence Stabilization Network Test table height-0 time Test table height-0 time 500hm/50uH coupling impedance for the measuring equipme 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test sephotographs).  3. Both sides of A.C. line are checked for maximum conducted	Test Frequency Range:	150kHz to 30MHz							
Limit:  Frequency range (MHz)  Quasi-peak  Aver  0.15-0.5  66 to 56* 56 to  0.5-5  56  44  0.5-30  * Decreases with the logarithm of the frequency.  Reference Plane  LISN  Aux Equipment LISN  Filter  Ac power  LISN Line Impedance Stabilization Network Test table height-0 8m  Test procedure  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipmed 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But the limit (dBµV) Quasi-peak Aver Aver  Quasi-peak Aver Aver  Aver  Quasi-peak Aver Aver  Aver  Quasi-peak Aver  Aver  Quasi-peak Aver  Aver  Quasi-peak Aver  Aver  Details  Filter  Ac power  EUI EMI Receiver  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But the provide a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But the provide a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).	Class / Severity:	Class B	Class B						
Limit:  Frequency range (MHz)  Quasi-peak  Aver  0.15-0.5  66 to 56* 56 to  0.5-5  56  44  0.5-30  * Decreases with the logarithm of the frequency.  Reference Plane  LISN  Aux Equipment LISN  Filter  Ac power  LISN Line Impedance Stabilization Network Test table height-0 8m  Test procedure  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipmed 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But the limit (dBµV) Quasi-peak Aver Aver  Quasi-peak Aver Aver  Aver  Quasi-peak Aver Aver  Aver  Quasi-peak Aver  Aver  Quasi-peak Aver  Aver  Quasi-peak Aver  Aver  Details  Filter  Ac power  EUI EMI Receiver  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But the provide a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But the provide a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).	Receiver setup:	RBW=9kHz, VBW=30kHz							
Test setup:    Compared to the main power to line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipmed 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with test see photographs).   Compared to the see photographs in the provided a photographs in the provided a photographs).   Compared to the see photographs in the provided a see photographs).   Compared to the see photographs in the provided a see photographs).   Compared to the provided a see photographs in the provided and the prov	·		Limit	(dBµV)					
Test setup:  Reference Plane  LISN  AUX Equipment  LISN LISN  Receiver  Test table Plane LISN LISN Lish Receiver  Test table Plane Lish Lish Lish Lish Lish Lish Engint-Dan  1. The E.U.T and simulators are connected to the main power to line impedence stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipmed a LISN that provides a 2 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test sephotographs).  3. Both sides of A.C. line are checked for maximum conducted		Frequency range (MHz)		Average					
Test setup:  Reference Plane  LISN  Aux Equipment Under Test LISN Line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipme 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  Before a with the logarithm of the frequency.  Reference Plane  LISN  Filter  Ac power  EMI Receiver  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance of the measuring equipme a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  3. Both sides of A.C. line are checked for maximum conducted				56 to 46*					
* Decreases with the logarithm of the frequency.  Test setup:  **Reference Plane  **LISN				46					
Test setup:  Reference Plane  LISN  AUX Equipment  Test table/Insulation plane  Remark  E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m  Test procedure  1. The E.U.T and simulators are connected to the main power to line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipmed 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  3. Both sides of A.C. line are checked for maximum conducted				50					
Test procedure  1. The E.U.T and simulators are connected to the main power line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipmed a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  But ISN 40cm   Filter   AC power   EMI   Receiver   AC power   AC	Testest		•						
line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipme 2. The peripheral devices are also connected to the main power a LISN that provides a 50ohm/50uH coupling impedance with termination. (Please refers to the block diagram of the test see photographs).  3. Both sides of A.C. line are checked for maximum conducted		AUX Equipment  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network Test table height=0.8m	Filter — AC p						
positions of equipment and all of the interface cables must be according to ANSI C63.4: 2009 on conducted measurement.	i oot prooduite	line impedance stabilization 500hm/50uH coupling imposed 2. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs).  3. Both sides of A.C. line are interference. In order to fir positions of equipment and	on network(L.I.S.N.). The pedance for the measure also connected to the ohm/50uH coupling imports to the block diagram are checked for maximum and the maximum emissed all of the interface care	he provide a ring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative ables must be changed					
Test environment: Temp.: 23 °C Humid.: 56% Press.: 101	Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 101kPa					
Measurement Record: Uncertainty: ±	Measurement Record:	ı	U	ncertainty: ±3.28dB					
Test Instruments: Refer to section 5.7 for details	Test Instruments:	Refer to section 5.7 for detail		·					
Test mode: Refer to section 5.3 for details									
Test results: Pass	Test results:	Pass							





#### Measurement data:

Line:



Trace: 17

Site

Condition

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : Mobile phone : HELLO HM54 EUT Model Test Mode : PC mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 C Huni:56% Atmos:101KPa

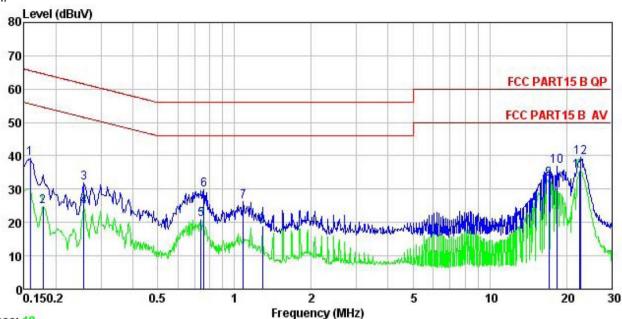
Test Engineer: MT.liang Remark

Kemark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	<u>dB</u>	dB	dBu₹	dBu∀	<u>dB</u>	
1	0.150	29.15	0.27	10.78	40.20	66.00	-25.80	QP
1 2 3 4 5 6 7 8 9	0.154	18.71	0.27	10.78	29.76	55.78	-26.02	Average
3	0.299	12.92	0.26	10.74	23.92	50.28	-26.36	Average
4	0.318	20.73	0.26	10.74	31.73	59.75	-28.02	QP
5	0.739	19.41	0.22	10.79	30.42	56.00	-25.58	QP
6	0.739	11.14	0.22	10.79	22.15	46.00	-23.85	Average
7	1.153	15.28	0.25	10.89	26.42	56.00	-29.58	QP
8	5.505	17.60	0.30	10.83	28.73	60.00	-31.27	QP
9	6.024	14.30	0.31	10.82	25.43	50.00	-24.57	Average
10	8.323	13.00	0.32	10.87	24.19	50.00	-25.81	Average
11	22.535	28.74	0.44	10.89	40.07	60.00	-19.93	QP
12	22.655	25.11	0.44	10.89	36.44	50.00	-13.56	Average





#### Neutral:



Trace: 19

Site

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

EUT : Mobile phone : HELLO HM54 Model Test Mode : PC mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: MT.liang

Freq	Read Level	LISN Factor		Level	Limit Line	Over Limit	Remark
MHz	₫₿u₹	<u>dB</u>	₫B	dBu₹	dBu₹	<u>dB</u>	
0.158	28.13	0.25	10.78	39.16	65.56	-26.40	QP
0.178	13.91	0.25	10.77	24.93	54.59	-29.66	Average
0.258	20.78	0.26	10.75	31.79	61.51	-29.72	QP
0.258	13.83	0.26	10.75	24.84	51.51	-26.67	Average
0.739	10.10	0.19	10.79	21.08	46.00	-24.92	Average
0.759	18.91	0.19	10.80	29.90	56.00	-26.10	QP
1.082	15.19	0.23	10.88	26.30	56.00	-29.70	QP
1.289	7.78	0.25	10.90	18.93	46.00	-27.07	Average
17.018	21.85	0.25	10.91	33.01	50.00	-16.99	Average
18.328	25.83	0.26	10.91	37.00	60.00	-23.00	QP
22.416	24.29	0.37	10.90	35.56	50.00	-14.44	Average
22.775	28.19	0.39	10.89	39.47	60.00	-20.53	QP
	MHz  0. 158 0. 178 0. 258 0. 258 0. 739 0. 759 1. 082 1. 289 17. 018 18. 328 22. 416	Freq Level  MHz dBuV  0.158 28.13 0.178 13.91 0.258 20.78 0.258 13.83 0.739 10.10 0.759 18.91 1.082 15.19 1.289 7.78 17.018 21.85 18.328 25.83 22.416 24.29	MHz         dBuV         dB           0.158         28.13         0.25           0.178         13.91         0.25           0.258         20.78         0.26           0.258         13.83         0.26           0.739         10.10         0.19           0.759         18.91         0.19           1.082         15.19         0.23           1.289         7.78         0.25           17.018         21.85         0.25           18.328         25.83         0.26           22.416         24.29         0.37	Freq         Level         Factor         Loss           MHz         dBuV         dB         dB           0.158         28.13         0.25         10.78           0.178         13.91         0.25         10.77           0.258         20.78         0.26         10.75           0.258         13.83         0.26         10.75           0.739         10.10         0.19         10.79           0.759         18.91         0.19         10.80           1.082         15.19         0.23         10.88           1.289         7.78         0.25         10.90           17.018         21.85         0.25         10.91           18.328         25.83         0.26         10.91           22.416         24.29         0.37         10.90	MHz         dBuV         dB         dB         dBuV           0.158         28.13         0.25         10.78         39.16           0.178         13.91         0.25         10.77         24.93           0.258         20.78         0.26         10.75         31.79           0.258         13.83         0.26         10.75         24.84           0.739         10.10         0.19         10.79         21.08           0.759         18.91         0.19         10.80         29.90           1.082         15.19         0.23         10.88         26.30           1.289         7.78         0.25         10.90         18.93           17.018         21.85         0.25         10.91         33.01           18.328         25.83         0.26         10.91         37.00           22.416         24.29         0.37         10.90         35.56	MHz         dBuV         dB         dB         dBuV         dBuV           0.158         28.13         0.25         10.78         39.16         65.56           0.178         13.91         0.25         10.77         24.93         54.59           0.258         20.78         0.26         10.75         31.79         61.51           0.258         13.83         0.26         10.75         24.84         51.51           0.739         10.10         0.19         10.79         21.08         46.00           0.759         18.91         0.19         10.80         29.90         56.00           1.082         15.19         0.23         10.88         26.30         56.00           1.289         7.78         0.25         10.90         18.93         46.00           17.018         21.85         0.25         10.91         33.01         50.00           18.328         25.83         0.26         10.91         37.00         60.00           22.416         24.29         0.37         10.90         35.56         50.00	MHz         dBuV         dB         dB         dBuV         dBuV         dB           0.158         28.13         0.25         10.78         39.16         65.56         -26.40           0.178         13.91         0.25         10.77         24.93         54.59         -29.66           0.258         20.78         0.26         10.75         31.79         61.51         -29.72           0.258         13.83         0.26         10.75         24.84         51.51         -26.67           0.739         10.10         0.19         10.79         21.08         46.00         -24.92           0.759         18.91         0.19         10.80         29.90         56.00         -26.10           1.082         15.19         0.23         10.88         26.30         56.00         -29.70           1.289         7.78         0.25         10.90         18.93         46.00         -27.07           17.018         21.85         0.25         10.91         33.01         50.00         -16.99           18.328         25.83         0.26         10.91         37.00         60.00         -23.00           22.416         24.29         0.37

#### Notes:

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

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 2311 8282 Fax: +86 (0) 755 2311 6366





### 6.2 Radiated Emission

0.2 Radiated Ellission									
Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:2009								
Test Frequency Range:	30MHz to 6000MHz								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency	Dete	ctor	RBW	VB۱		Remark		
	30MHz-1GHz		Quasi-peak		0kHz 300k		Quasi-peak Value		
	Above 1GHz	Pea RM		1MHz	3MF		Peak Value		
Limit:	Frequenc			1MHz (dBuV/m @		Iz Average Value Remark			
Lillit.	30MHz-88M		LIIIII	40.0	<i>(</i> 3111)	(	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	∃z		74.0			Peak Value		
Test setup:	Below 1GHz				Antenna	_			
	Search Antenna  RF Test Receiver  Turn Table 0.8m Im  Table 0.8m Im								
	Above 1GHz								
	SOCM SOCM	E EUT	G Test Recei	3m round Reference Plane	Horn Antenn	Contro	intenna Tower		





	,							
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.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	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							

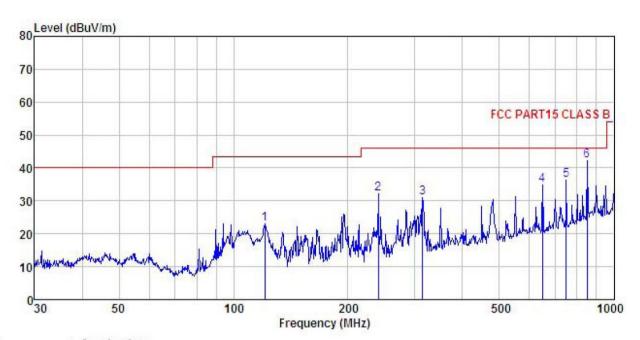




#### **Measurement Data**

#### **Below 1GHz**

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

: Mobile phone : HELLO HM54 : HELLO HM54

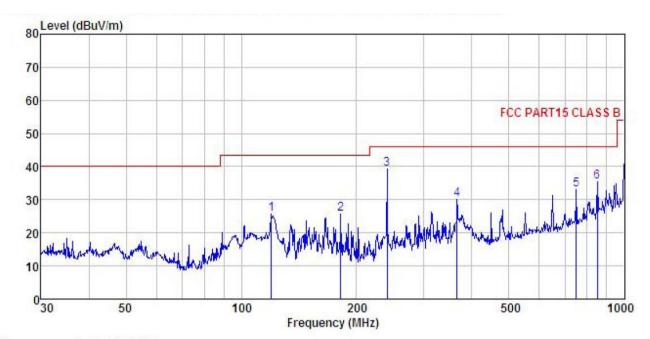
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK : EUT

Freq			Antenna Factor						
	MHz	dBu∜	<u>dB</u> /m		<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1	120.699	41.03	10.38	1.13	29.39	23.15	43.50	-20.35	QP
2	239.987	46.96	12.09	1.58	28.59	32.04	46.00	-13.96	QP
2 3 4 5	314.377	44.53	13.26	1.82	28.48	31.13	46.00	-14.87	QP
4	649.660	42.23	18.64	2.79	28.78	34.88	46.00	-11.12	QP
5	750.108	42.34	19.43	3.04	28.48	36.33	46.00	-9.67	QP
6	851.035	46.27	20.60	3.25	28.00	42.12	46.00	-3.88	QP





#### Vertical:



Site Condition : 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL

: Mobile phone : HELLO HM54 EUT Model Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: MT REMARK :

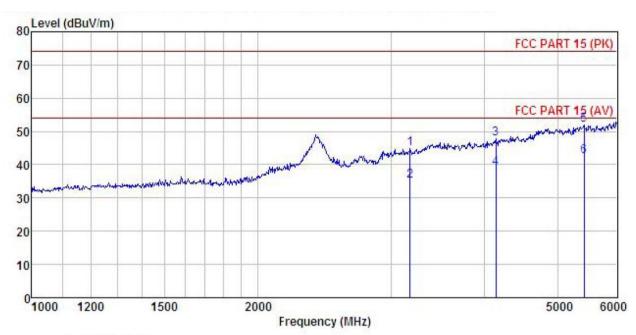
THETTER									
	Freq		Antenna Factor					Over Limit	
_	MHz	dBu∇	dB/m		<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB	
1	119.856	43.50	10.48	1.12	29.39	25.71	43.50	-17.79	QP
2	181.920	43.49	9.84	1.36	28.96	25.73	43.50	-17.77	QP
3	239.987	54.15	12.09	1.58	28.59	39.23	46.00	-6.77	QP
4	365.539	42.33	14.48	2.00	28.63	30.18	46.00	-15.82	QP
1 2 3 4 5	750.108	39.17	19.43	3.04	28.48	33.16	46.00	-12.84	QP
6	851.035	39.67	20.60	3.25	28.00	35.52	46.00	-10.48	QP





#### **Above 1GHz**

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Mobile phone : HELLO HM54 EUT Model Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: MT

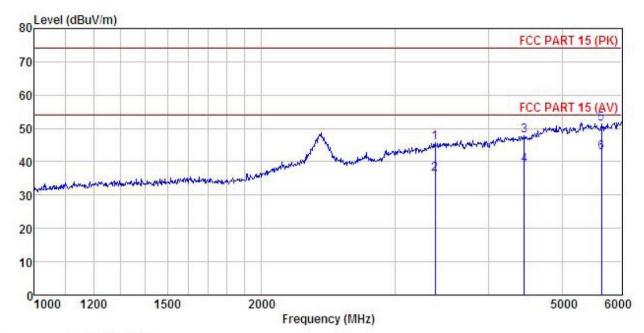
REMARK

	Freq		Antenna Factor				Limit Line		Remark
_	MHz	dBu∇	<u>dB</u> /π		<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>db</u>	
1	3182.976	48.69	28.76	8.20	40.69	44.96	74.00	-29.04	Peak
	3182.976	38.72	28.76	8.20	40.69	34.99	54.00	-19.01	Average
3	4139.249	48.95	30.12	9.79	41.01	47.85	74.00	-26.15	Peak
	4139.249	39.95	30.12	9.79	41.01	38.85	54.00	-15.15	Average
5	5424.881	48.91	31.91	11.28	40.21	51.89	74.00	-22.11	Peak
6	5424.881	39.64	31.91	11.28	40.21	42.62	54.00	-11.38	Average





#### Vertical:



Site Condition

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

EUT : Mobile phone Model : HELLO HM54
Test mode : PC Mode
Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55% Test Engineer: MT REMARK :

Thronics										
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
2	MHz	dBu∜	<u>dB</u> /π		<u>d</u> B	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>		
1	3394.076	47.41	28.46	8.59	38.84	45.62	74.00	-28.38	Peak	
2	3394.076	38.22	28.46	8.59	38.84	36.43	54.00	-17.57	Average	
3	4456.925	47.67	30.66	10.18	40.72	47.79	74.00	-26.21	Peak	
	4456.925	38.82	30.66	10.18	40.72	38.94	54.00	-15.06	Average	
5	5640.169	48.27	32.11	11.53	40.43	51.48	74.00	-22.52	Peak	
6	5640.169	39.68	32.11	11.53	40.43	42.89	54.00	-11.11	Average	