



Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

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## **FCC REPORT**

**Report Reference No.....: TRE1409002304** R/C....... 35339

FCC ID.....: 2ABOU5008

Applicant's name.....: Shenzhen Hipad Telecommunication Technology Co.,LTD

Road, Hi-tech industrial Park, NanShan District, Shenzhen, Guangdong, China

Manufacturer...... Shenzhen Hipad Telecommunication Technology Co.,LTD.

Road, Hi-tech industrial Park, NanShan District, Shenzhen, Guangdong, China

Test item description .....: Mobile phone

Trade Mark ...... Olé!

Model/Type reference...... MM5008-MX

Listed Model(s) ...... MM5008-MX-O, MM5008-CA

Standard ...... : 47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2009

Date of receipt of test sample...... Sep 04, 2014

Date of testing...... Sep 04, 2014 ~ Sep 19, 2014

Date of issue...... Sep 19, 2014

Result...... Pass

Compiled by

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Testing Laboratory Name .....: Shenzhen Huatongwei International Inspection Co., Ltd

Address...... Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

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## 1. TEST STANDARDS AND TEST DESCRIPTION

### 1.1. Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

<u>ANSI C63.4: 2009</u> – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

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## 2. SUMMARY

### 2.1. Client Information

Applicant:	Shenzhen Hipad Telecommunication Technology Co.,LTD
Address:	Room 502-503, Unit 3, Building C, Kexing Science Park, Keyuan Road, Hi-tech industrial Park, NanShan District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Hipad Telecommunication Technology Co.,LTD
Address:	Room 502-503, Unit 3, Building C, Kexing Science Park, Keyuan Road, Hi-tech industrial Park, NanShan District, Shenzhen, Guangdong, China

## 2.2. Product Description

Name of EUT	Mobile phone
Trade Mark:	Olé!
Model No.:	MM5008-MX
Listed Model(s):	MM5008-MX-O, MM5008-CA
Power supply:	DC 3.7V From internal battery
Adapter information:	Model: A31-500550
	Input:AC 100-240V 50/60Hz 0.2A
	Output:DC 5V 0.75A

## 2.3. EUT operation mode

The EUT has been tested under typical operating condition.

## 2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

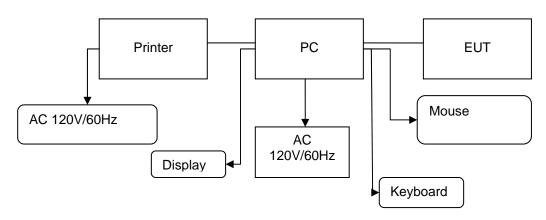
- supplied by the manufacturer
- $\ensuremath{\bigcirc}$  supplied by the lab

0	Power Cable	Length (m):	1
		Shield :	/
		Detachable :	/
0	Multimeter	Manufacturer:	/
		Model No.:	/

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## 2.5. Configuration of Tested System

## **Configuration of Tested System**



**Equipment Used in Tested System** 

	Equipment Used in Tested System										
No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/unshielded	Notes				
1	PC	DELL	DIMEN SION E520	1RNN42X	/	/	DOC				
2	Printer	ESPOn	C3990	C3990A	/	/	DOC				
3	Mouse	DELL	MO56U OA	G0E02SY7	1.00m	unshielded	DOC				
4	Display	DELL	1707FPt	CN-OFC237-71618- 65G-AAKC	/	/	DOC				
5	Keyboard	DELL	L100	CNRH65665890726 009L	/	/	DOC				
6	USB Cable (EUT to PC)	ITALCOM GROUP	USB 2.0	N/A	0.80m	unshielded	N/A				
7	USB Cable (Printer to PC)	Genshuo	USB 2.0	N/A	1.20m	unshielded	N/A				
8	Power line	/	/	N/A	1.00m	unshielded	N/A				

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## 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

#### 3.2. Test Facility

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

#### CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 01, 2012. Valid time is until February 28, 2015.

#### A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2015.

#### FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection 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 our files. Registration 662850, Renewal date Jul. 01, 2012, valid time is until Jun. 01, 2015.

#### FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming 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 our files. Registration 317478, Renewal date July 18, 2014, valid time is until July. 18, 2017.

#### IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

#### IC-Registration No.: 5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on September 3, 2014, valid time is until September 3, 2017.

#### ΔCΔ

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

#### vcci

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

#### DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

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#### 3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

#### 3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

<sup>(1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 3.5. Equipments Used during the Test

Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due			
1	EMI TEST RECEIVER	Rohde & Schwarz	ESCI	100106	2014/10/25			
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2014/10/25			
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2014/10/25			
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	N/A			

Radia	Radiated Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due			
1	ULTRA-BROADBAND ANTENNA	ShwarzBeck	VULB9163	538	2014/10/25			
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2014/10/25			
3	EMI TEST Software	Audix	E3	N/A	N/A			
4	TURNTABLE	MATURO	TT2.0		N/A			
5	ANTENNA MAST	MATURO	TAM-4.0-P		N/A			
6	EMI TEST Software	Rohde & Schwarz	ESK1	N/A	N/A			
7	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2014/10/25			
8	Amplifer	Sonoma	310N	E009-13	2014/10/25			
9	JS amplifer	Rohde & Schwarz	JS4-00101800- 28-5A	F201504	2014/10/25			
11	TURNTABLE	ETS	2088	2149	N/A			
12	ANTENNA MAST	ETS	2075	2346	N/A			
13	HORN ANTENNA	Rohde&Schwarz	HF906	100039	2014/10/25			

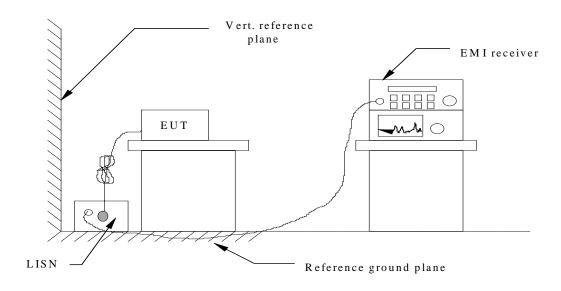
The calibration interval was one year.

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## 4. TEST CONDITIONS AND RESULTS

#### 4.1. Conducted Emissions Test

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2. Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4. The EUT received DC 5.0 from USB powered from AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

#### **CONDUCTED POWER LINE EMISSION LIMIT**

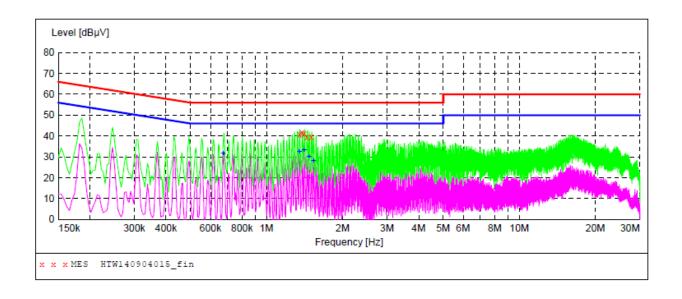
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Fraguanay	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLAS	SS A	CLASS B				
(IVITIZ)	Q.P.	Ave.	Q.P.	Ave.			
0.15 - 0.50	79	66	66-56*	56-46*			
0.50 - 5.00	73	60	56	46			
5.00 - 30.0	73	60	60	50			

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency

#### **TEST RESULTS**

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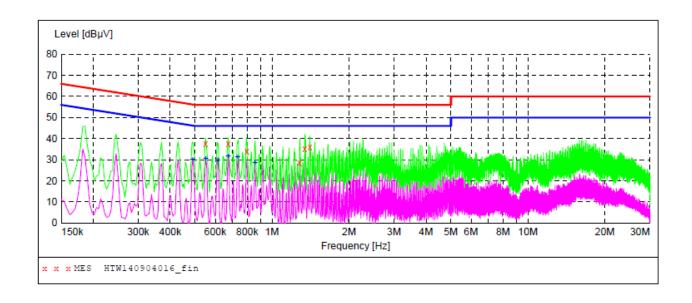
## MEASUREMENT RESULT: "HTW140904015\_fin"

2:24P	M						
MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0000	40.80	10.1	56	15.2	QP	L1	GND
2000	41.40	10.1	56	14.6	QP	L1	GND
.0000	41.20	10.1	56	14.8	QP	L1	GND
6000	39.50	10.1	56	16.5	QP	L1	GND
6000	39.60	10.1	56	16.4	QP	L1	GND
	ency	MHz dBμV 30000 40.80 32000 41.40 .0000 41.20 39.50	dency         Level dBμV         Transd dB           00000         40.80         10.1           2000         41.40         10.1           0000         41.20         10.1           6000         39.50         10.1	Lency         Level Transd dB dBμV           MHz         dBμV           0000         40.80           2000         41.40           10.1         56           0000         41.20           10.1         56           6000         39.50           10.1         56           10.1         56	dency MHz         Level dBμV         Transd dB dBμV         Limit dBμV         Margin dB           00000         40.80         10.1         56         15.2           20000         41.40         10.1         56         14.6           .0000         41.20         10.1         56         14.8           6000         39.50         10.1         56         16.5	dency MHz         Level Transd Limit Margin dB         Detector dBμV           00000         40.80         10.1         56         15.2         QP           20000         41.40         10.1         56         14.6         QP           00000         41.20         10.1         56         14.8         QP           66000         39.50         10.1         56         16.5         QP	dency MHz         Level Transd dBμV         Limit dBμV         Margin dB         Detector Line dBμV           00000         40.80         10.1         56         15.2         QP         L1           2000         41.40         10.1         56         14.6         QP         L1           .0000         41.20         10.1         56         14.8         QP         L1           .6000         39.50         10.1         56         16.5         QP         L1

## MEASUREMENT RESULT: "HTW140904015\_fin2"

9	/4/2014 2:24	PM						
	Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
	0.674000	31.80	9.9	46	14.2	AV	L1	GND
	1.350000	32.60	10.1	46	13.4	AV	L1	GND
	1.410000	33.20	10.1	46	12.8	AV	L1	GND
	1.474000	30.30	10.1	46	15.7	AV	L1	GND
	1.534000	28.20	10.1	4.6	17.8	ΔV	T.1	GND

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## MEASUREMENT RESULT: "HTW140904016\_fin"

9/4/2014	2:27Pi	M						
Frequ	nency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.55	0000	37.40	9.9	56	18.6	QP	N	GND
0.67	4000	37.60	9.9	56	18.4	QP	N	GND
0.79	8000	34.00	9.9	56	22.0	QP	N	GND
1.27	8000	28.60	10.1	56	27.4	QP	N	GND
1.34	2000	35.40	10.1	56	20.6	QP	N	GND
1.40	6000	35.90	10.1	56	20.1	QP	N	GND

## MEASUREMENT RESULT: "HTW140904016\_fin2"

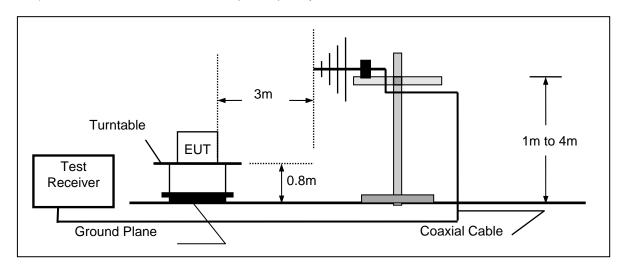
9/4/201	4 2:27P	M						
Freq	uency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.4	90000	30.20	10.0	46	16.0	AV	N	GND
0.5	50000	30.50	9.9	46	15.5	AV	N	GND
0.6	14000	29.60	9.9	46	16.4	AV	N	GND
0.6	74000	31.50	9.9	46	14.5	AV	N	GND
0.7	34000	31.20	9.9	46	14.8	AV	N	GND
0.8	58000	28.60	10.0	46	17.4	AV	N	GND

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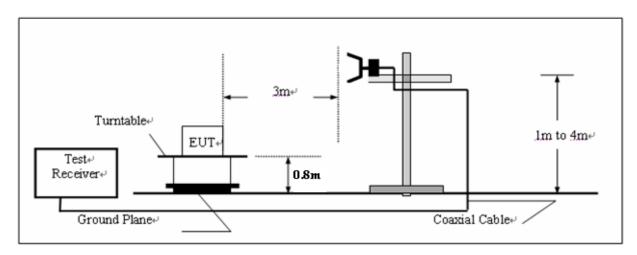
#### 4.2. Radiated Emission Test

#### **TEST CONFIGURATION**

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



#### **TEST PROCEDURE**

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The maximum operation frequency was 512MHz, the radiated emission test frequency from 30MHz to 18GHz.

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### FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

#### FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

#### For example

Ī	Frequency	FS	RA	AF	CL	AG	Transd
	(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
Ī	300.00	40	58.1	12.2	1.6	31.90	-18.1

Transd=AF +CL-AG

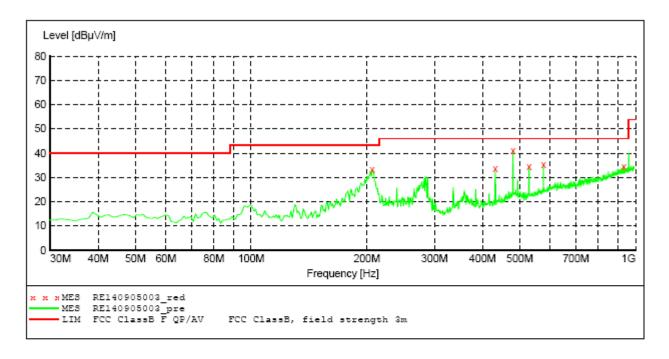
#### **RADIATION LIMIT**

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

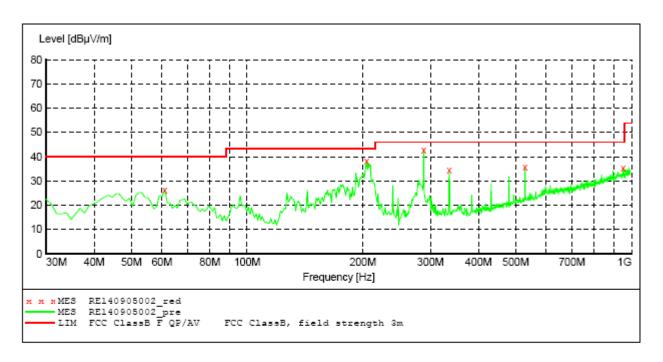
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## **TEST RESULTS**



### MEASUREMENT RESULT: "RE140905003 red"

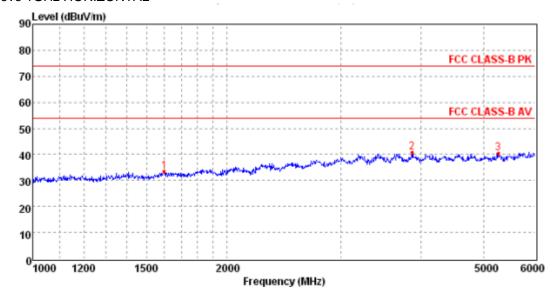
9/5/2014 9:23	3AM							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
206.540000	33.20	-14.8	43.5	10.3	QP	100.0	114.00	HORIZONTAL
431.580000	33.50	-9.6	46.0	12.5	QP	100.0	359.00	HORIZONTAL
480.080000	41.20	-8.0	46.0	4.8	QP	100.0	359.00	HORIZONTAL
528.580000	34.50	-6.1	46.0	11.5	QP	100.0	359.00	HORIZONTAL
576.110000	35.10	-4.3	46.0	10.9	QP	100.0	359.00	HORIZONTAL
932.100000	34.60	3.2	46.0	11.4	OP	300.0	114.00	HORIZONTAL



### MEASUREMENT RESULT: "RE140905002 red"

9/5/2014 9:19	9AM							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
61.040000	26.40	-16.0	40.0	13.6	OP	100.0	306.00	VERTICAL
204.600000	38.10	-14.7	43.5	5.4	ÕΡ	100.0	103.00	VERTICAL
288.020000	42.90	-14.2	46.0	3.1	ÕР	100.0	41.00	VERTICAL
335.550000	34.40	-12.5	46.0	11.6	QΡ	100.0	41.00	VERTICAL
528.580000	35.60	-6.1	46.0	10.4	QΡ	100.0	41.00	VERTICAL
951.500000	35.10	3.4	46.0	10.9	QP	100.0	15.00	VERTICAL

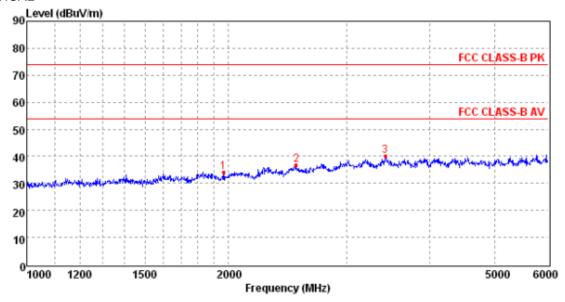
#### Above 1GHz HORIZONTAL



Mark Frequency Reading Antenna Cable Preamp Level Limit Over Remark
MHz dBuV dB dB dB dBuV/m dBuV/m limit

39.97 5.40 36.92 33.57 1 1599.10 25.12 74.00 -40.43 Peak 2 3868.16 40.70 29.36 8.66 37.99 40.73 74.00 -33.27 Peak 3 5264.37 37.67 31.90 9.49 38.44 40.62 74.00 -33.38 Peak

#### **VERTICAL**



Mark	Frequency MHz		Antenna dB			Le∨el dBuV/m			Remark
1	1965.00	39.25	25.83	6.10	37.22	33.96	74.00	-40.04	Peak
2	2525.25	39.76	27.61	7.04	37.67	36.74	74.00	-37.26	Peak
3	3430.58	41.08	28.47	8.72	37.99	40.28	74.00	-33.72	Peak

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# 5. Test Setup Photos of the EUT

Conducted Emission (AC Mains)



Radiated Emission (30MHz-1GHz)



## 6. External and Internal Photos of the EUT

Ref	erence to	the test	report No.	TRE1409002301

F d	~ £ D ~			
End	oi ke	ροπ	 	