

Page 1 of 56

# FCC TEST REPORT for Xiamen Prima Technology Inc.

LED touch display

Model No.: LE-55ME0E, TS55M10H, TS55M10

FCC ID: 2ADID-LE-55ME0E

Prepared for : Xiamen Prima Technology Inc.

: No.178, Xinfeng Road, Xiamen, Fujian, P.R. China Address

Prepared by : Accurate Technology Co., Ltd.

Address F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd.,

Science & Industry Park, Nanshan District Shenzhen

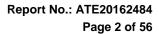
518057, P.R. China

Tel: +86-755-26503290 Fax: +86-755-26503396

: ATE20162484 Report No.

 υατε οτ Γest
 : Nov. 23--Dec. 09, 2016

 Date of Report
 : Dec. 10, 2016





# **TABLE OF CONTENTS**

Description					
Test R	Report				
1. TE	EST RESULTS SUMMARY	4			
2. GE	ENERAL INFORMATION	5			
2.1.	Description of Device (EUT)				
2.2.	Accessory and Auxiliary Equipment				
2.3.	Description of Test Facility				
2.4.	Measurement Uncertainty	6			
3. MI	EASURING DEVICE AND TEST EQUIPMENT	7			
3.1.	For Radiated Emission Measurement	7			
3.2.	The Equipment Used to Measure Conducted Disturbance (L.I.S.N)				
4. PC	OWER LINE CONDUCTED MEASUREMENT	9			
4.1.	Block Diagram of Test Setup	9			
4.2.	Test mode description				
4.3.	Power Line Conducted Emission Measurement Limits				
4.4.	Configuration of EUT on Measurement				
4.5.	Operating Condition of EUT				
4.6.	Test Procedure				
4.7.	Power Line Conducted Emission Measurement Results				
5. RA	ADIATED EMISSION MEASUREMENT				
5.1.	Block Diagram of Test				
5.2.	Test mode description				
5.3.	Radiated Emission Limit (Class B)				
5.4.	Manufacturer				
5.5. 5.6.	Operating Condition of EUT Test Procedure				
5.6. 5.7.	Radiated Emission Noise Measurement Result				
_	HOTOGRAPHS				
6.1. 6.2.	Photos of Radiated Emission Measurement				
6.3.	Photo of EUTPhoto of EUT	-			
5.0.		······			



Page 3 of 56

# Test Report

Applicant : Xiamen Prima Technology Inc.

Manufacturer : Xiamen Prima Technology Inc.

EUT Description : LED touch display

Model No. : LE-55ME0E, TS55M10H, TS55M10

Trade Name : PRIMA, HATCH, TATUNG

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B:2016 ANSI C63.4: 2014

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

Date of Test :	Nov. 23Dec. 09, 2016
Date of Report :	Dec 10, 2016
Prepared by :	7 in Zhang
	(Tim.zhang, Engineer)
Approved & Authorized Signer :	Lemb
	( Sean Liu, Manager)



Page 4 of 56

# 1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15 Subpart B	Pass
Radiated Emission	FCC Part 15 Subpart B	Pass



Page 5 of 56

## 2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product : LED touch display

Model No. : LE-55ME0E, TS55M10H, TS55M10

Test Voltage : POWER SUPPLY: ~ 120V 60Hz

Trade Name : PRIMA

Remark(s) : The EUT highest operating frequency provided by

Manufacturer is 144MHz, the radiated emission measurement shall be made up to 2 GHz.

Applicant : Xiamen Prima Technology Inc.

Address : No.178, Xinfeng Road, Xiamen, Fujian, P.R. China

Manufacturer : Xiamen Prima Technology Inc.

Address : Wanlida Industry Zone Building C, Nanjing Fujian,

P.R. China.

Date of sample receiver: Nov. 23, 2016

Date of Test : Nov. 23--Dec. 09, 2016

2.2. Accessory and Auxiliary Equipment

PC : Manufacturer: DELL

M/N: DMC S/N: HZXLM1

media player : Manufacturer: TOSHIBA

M/N: STOR.E TV+ S/N: 101200005

USB Memory Disk: Manufacturer: Smartocean

M/N: 3611S/N: 101200005

Earphone : Manufacturer: APPLE

M/N: iPhone (Matching earphone)

S/N: 7M6369W3VQ5

HDMI Line : HDMI line length of 1 meters, have shield

and magnetic ring

VGA Line : VGA line length of 1 meters, have shield

and magnetic ring

AV Line : AV line length of 0.8 meters, have shield

and magnetic ring

TOUCH Line : DP line length of 1.2 meters, have shield

and magnetic ring



Page 6 of 56

# 2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for

Laboratories

The Certificate Registration Number is L3193

Name of Firm : Accurate Technology Co., Ltd.

Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan District, Shenzhen

518057, P.R. China

# 2.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Power Disturbance Expanded Uncertainty = 2.92 dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)





Page 7 of 56

# 3. MEASURING DEVICE AND TEST EQUIPMENT

# 3.1. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
Item	Lquipinent	Mariuracturer	Model No.	Serial No.	Last Cal.	Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.09, 2016	1 Year
2.	Spectrum Analyzer		FSV40	101495	Jan.09, 2016	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.09, 2016	1 Year
4.	Test Receiver	Rohde& Schwarz		100396/003	Jan.09, 2016	1 Year
5.	Test Receiver	Rohde& Schwarz		101526/003	Jan.09, 2016	1 Year
6.	Test Receiver	Rohde& Schwarz		101817	Jan.09, 2016	1 Year
7.	Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.14, 2016	1 Year
8.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.14, 2016	1 Year
9.	LogPer.Antenna	Schwarzbeck	VUSLP	9111B-074	Jan.14, 2016	1 Year
			9111B		,, = 5 : 5	
10.	Biconical Broad	Schwarzbeck	VHBB	9124-617	Jan.14, 2016	1 Year
	Band Antenna		9124+BBA		,	
			9106			
11.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.14, 2016	1 Year
12.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.14, 2016	1 Year
13.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan.14, 2016	1 Year
14.	Vertical Active	Schwarzbeck	VAMP 9243	9243-370	Jan.14, 2016	1 Year
	Monopole Antenna					
15.	RF Switching	Compliance	RSU-M2	38322	Jan.09, 2016	1 Year
	Unit+PreAMP	Direction				
16.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.09, 2016	1 Year
17.	Pre-Amplifier	Rohde&Schwarz	CBLU11835	3791	Jan.09, 2016	1 Year
			40-01			
18.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.09, 2016	1 Year
19.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.09, 2016	1 Year
20.	RF Coaxial Cable	Schwarzbeck	N-5m	No.1	Jan.09, 2016	1 Year
21.	RF Coaxial Cable	Schwarzbeck	N-1m	No.6	Jan.09, 2016	1 Year
22.	RF Coaxial Cable	Schwarzbeck	N-1m	No.7	Jan.09, 2016	1 Year
23.	RF Coaxial Cable		N-3m	No.8	Jan.09, 2016	1 Year
24.	RF Coaxial Cable	RESENBERGER		No.9	Jan.09, 2016	1 Year
25.	RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.09, 2016	1 Year
26.	RF Coaxial Cable	RESENBERGER		No.11	Jan.09, 2016	1 Year
27.	RF Coaxial Cable	RESENBERGER		No.12	Jan.09, 2016	1 Year
28.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.09, 2016	1 Year
29.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.09, 2016	1 Year
30.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.09, 2016	1 Year
31.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.09, 2016	1 Year



Page 8 of 56

# 3.2. The Equipment Used to Measure Conducted Disturbance (L.I.S.N)

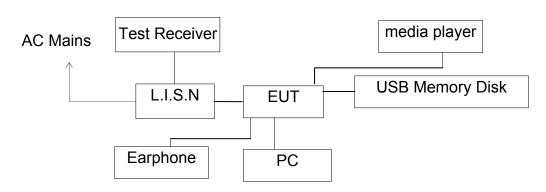
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.09, 2016	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI3	100396/003	Jan.09, 2016	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI3	101526/003	Jan.09, 2016	1 Year
4.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.09, 2016	1 Year
5.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100305	Jan.09, 2016	1 Year
6.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	Jan.09, 2016	1 Year
7.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100132	Jan.09, 2016	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.09, 2016	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100312	Jan.09, 2016	1 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan.09, 2016	1 Year
11.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283936	Jan.09, 2016	1 Year
12.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.09, 2016	1 Year
13.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.09, 2016	1 Year
14.	VOLTAGE PROBE	Schwarzbeck	TK9416	N/A	Jan.09, 2016	1 Year
15.	RF CURRENT PROBE	Rohde & Schwarz	EZ-17	100048	Jan.09, 2016	1 Year
16.	8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	Jan.09, 2016	1 Year
17.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.09, 2016	1 Year
18.	RF Coaxial Cable	SUHNER	N-2m	No.3	Jan.09, 2016	1 Year
19.	RF Coaxial Cable	SUHNER	N-2m	No.14	Jan.09, 2016	1 Year
Expa	nded Uncertainty:	U= 2.23dB, k=2				



Page 9 of 56

# 4. POWER LINE CONDUCTED MEASUREMENT

# 4.1.Block Diagram of Test Setup



(EUT: LED touch display)

# 4.2. Test mode description

Test mode 1: AV IN Test mode 2: VGA IN

Test mode 3: COMPONENT IN

Test mode 4: HDMI IN

Test mode 5: USB PLAYING

Note: EUT have two USB interfaces, the USB TOUCH port is used to output the touch for external devices connected to PC, Another USB interface is used for system upgrades or service.

There is a detailed description of the interface On the fifth page of the user manual.

#### 4.3. Power Line Conducted Emission Measurement Limits

Frequency	Limit d	B(μV)
(MHz)	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

NOTE1: The lower limit shall apply at the transition frequencies.

NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

# 4.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.



Page 10 of 56

# 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3.Let the EUT work in test mode and measure it.

#### 4.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 4.7. Power Line Conducted Emission Measurement Results

#### PASS.

The frequency range from 150kHz to 30MHz is checked.

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.



Page 11 of 56



ACCURATE TECHNOLOGY CO., LTD

### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: AV IN

Test Site: 2#Shielding Room

Operator: DING

Test Specification: L 120V/60Hz

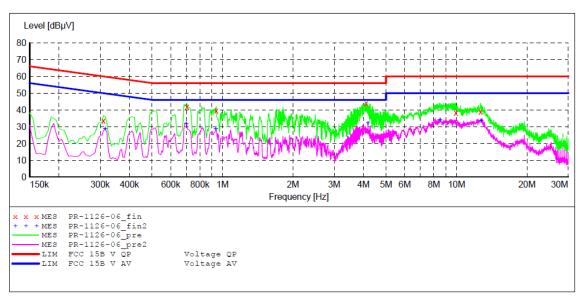
Comment: Report NO.:ATE20162484 Start of Test: 2016-11-26 / 10:34:51

#### SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz Detector Meas. IF Transducer
Time Bandw.
QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



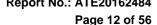
#### MEASUREMENT RESULT: "PR-1126-06 fin"

2016-11-26 Frequency MHz	y Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.310000	33.60	10.9	60	26.4	QP	L1	GND
0.705000	41.80	11.1	56	14.2	QP	L1	GND
0.940000	39.70	11.1	56	16.3	QP	L1	GND
4.110000	44.00	11.4	56	12.0	QP	L1	GND
9.930000	38.40	11.6	60	21.6	QP	L1	GND
12.650000	38.90	11.6	60	21.1	QP	L1	GND

#### MEASUREMENT RESULT: "PR-1126-06 fin2"

2016-11-26 1	0:35						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.315000 0.700000 0.935000 4.180000 8.500000	29.00 32.00 28.80 32.20 34.30	10.9 11.1 11.1 11.4 11.5	50 46 46 46 50	14.0 17.2	AV AV AV AV	L1 L1 L1 L1	GND GND GND GND GND
12.725000	33.60	11.6	50	16.4	AV	L1	GND







#### CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: AV IN

2#Shielding Room Test Site:

Operator: DING

Test Specification: N 120V/60Hz

Report NO.:ATE20162484 2016-11-26 / 10:23:30 Comment: Start of Test:

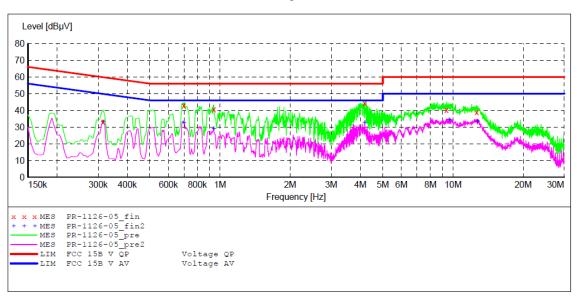
# SCAN TABLE: "V 150K-30MHz fin" Short Description: SUB

SUB STD VTERM2 1.70

Step Start Stop Transducer

Detector Meas. IF
Time Bandw.
QuasiPeak 1.0 s 9 kHz Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "PR-1126-05 fin"

2016-11-26 1 Frequency MHz	0:31 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.315000	33.10	10.9	60	26.7	OD	NT	CMD
0.313000	33.10	10.9	60	26.7	QP	N	GND
0.700000	42.90	11.1	56	13.1	QP	N	GND
0.940000	40.50	11.1	56	15.5	QP	N	GND
4.180000	44.20	11.4	56	11.8	QP	N	GND
9.370000	40.30	11.6	60	19.7	QP	N	GND
12.625000	39.10	11.6	60	20.9	QP	N	GND

#### MEASUREMENT RESULT: "PR-1126-05 fin2"

2016-11-26 10	:31						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.315000	33.40	10.9	50	16.4	AV	N	GND
0.700000	33.00	11.1	46	13.0	AV	N	GND
0.940000	29.40	11.1	46	16.6	AV	N	GND
4.180000	33.00	11.4	46	13.0	AV	N	GND
9.610000	34.60	11.6	50	15.4	AV	N	GND
12.725000	33.60	11.6	50	16.4	AV	N	GND





Page 13 of 56

#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: VGA IN

Test Site: 2#Shielding Room

Operator: DING

Test Specification: L 120V/60Hz

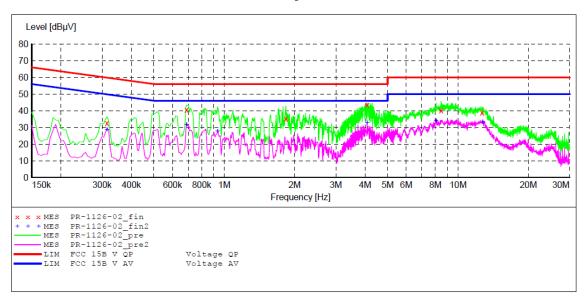
Report NO.:ATE20162484 Comment: 2016-11-26 / 10:18:13 Start of Test:

SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB S SUB STD VTERM2 1.70

Start Step Stop

Detector Meas. IF Transducer
Time Bandw.
QuasiPeak 1.0 s 9 kHz NSLK8126 2008 Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz

Average

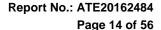


#### MEASUREMENT RESULT: "PR-1126-02 fin"

	1-26 10: quency MHz	19 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.	315000	32.50	10.9	60	27.3	QP	L1	GND
0.	690000	40.70	11.1	56	15.3	QP	L1	GND
1.	835000	35.30	11.2	56	20.7	QP	L1	GND
4.	080000	43.50	11.4	56	12.5	QP	L1	GND
8.	460000	40.20	11.5	60	19.8	QP	L1	GND
12.	650000	38.80	11.6	60	21.2	QP	L1	GND

#### MEASUREMENT RESULT: "PR-1126-02 fin2"

20	16-11-26 10	:19						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.315000	29.00	10.9	50	20.8	AV	L1	GND
	0.690000	32.00	11.1	46	14.0	AV	L1	GND
	0.935000	28.10	11.1	46	17.9	AV	L1	GND
	4.080000	33.00	11.4	46	13.0	AV	L1	GND
	8.050000	34.40	11.5	50	15.6	AV	L1	GND
	12.750000	33.10	11.6	50	16.9	AV	L1	GND





#### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: VGA IN

2#Shielding Room Test Site:

Operator: DING

Operator:
Test Specification: N 120V/60Hz
Comment: Report NO.:ATE20162484 Start of Test: 2016-11-26 / 10:14:37

#### SCAN TABLE: "V 150K-30MHz fin"

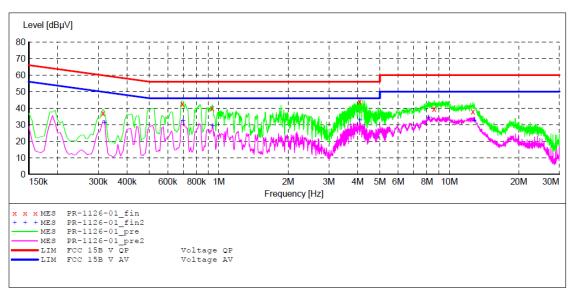
Short Description: SUB STD VTERM2 1.70

Start Stop Step Transducer

Detector Meas. IF Time Bandw.

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz Time Bandw. QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "PR-1126-01 fin"

20	16-11-26 10	:15						
	Frequency					Detector	Line	PΕ
	MHz	dΒμV	dB	dΒμV	dB			
	0.315000	36.90	10.9	60	22.9	OP	N	GND
	0.695000	42.60	11.1	56	13.4	QP	N	GND
	0.935000	39.80	11.1	56	16.2	QP	N	GND
	4.080000	44.00	11.4	56	12.0	QP	N	GND
	8.590000	39.50	11.5	60	20.5	QP	N	GND
	12,650000	38.10	11.6	60	21.9	OP	N	GND

#### MEASUREMENT RESULT: "PR-1126-01 fin2"

2016-11-26 10	:15						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.320000	31.20	10.9	50	18.5	AV	N	GND
0.700000	32.60	11.1	46	13.4	AV	N	GND
0.940000	29.50	11.1	46	16.5	AV	N	GND
4.080000	32.80	11.4	46	13.2	AV	N	GND
8.120000	34.60	11.5	50	15.4	AV	N	GND
12.825000	32.50	11.6	50	17.5	AV	N	GND



Page 15 of 56



ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA

Operating Condition: COMPONENT IN Test Site: 2#Shielding Room

Operator: DING

Test Specification: L 120V/60Hz

Comment: Report NO.:ATE20162484 Start of Test: 2016-11-26 / 10:44:05

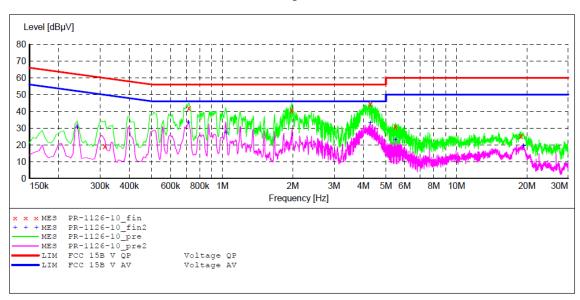
#### SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Detector Meas. IF Time Bandw. Stop Step Start Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "PR-1126-10 fin"

2016-11-26 1 Frequency MHz	L0:45 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.315000	19.40	10.9	60	40.4	QP	L1	GND
0.720000	41.90	11.1	56	14.1	QP	L1	GND
1.980000	40.70	11.3	56	15.3	QP	L1	GND
4.280000	44.30	11.4	56	11.7	QP	L1	GND
5.490000	31.00	11.5	60	29.0	QP	L1	GND
18.850000	25.10	11.7	60	34.9	QP	L1	GND

#### MEASUREMENT RESULT: "PR-1126-10 fin2"

2016-11-26 10 Frequency MHz	1:45 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.240000	30.50	10.9	52	21.6	AV	L1	GND
0.240000	30.30	10.9	52	21.0	AV	TIT	GND
0.715000	33.50	11.1	46	12.5	AV	L1	GND
1.035000	27.50	11.1	46	18.5	AV	L1	GND
4.280000	33.10	11.4	46	12.9	AV	L1	GND
5.490000	23.40	11.5	50	26.6	AV	L1	GND
19.325000	19.60	11.7	50	30.4	AV	L1	GND





Page 16 of 56

#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA

Operating Condition: COMPONENT IN Test Site: 2#Shielding Room

Operator: DING

Test Specification: N 120V/60Hz

Report NO.:ATE20162484 2016-11-26 / 10:42:23 Comment: Start of Test:

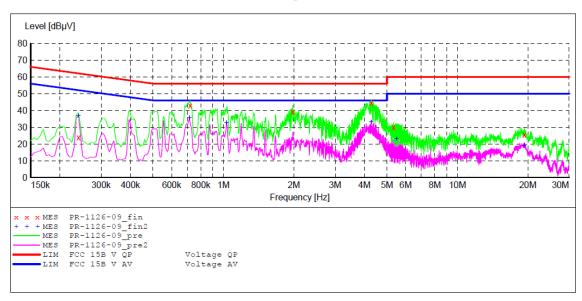
#### SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Detector Meas. IF Time Bandw. Transducer

Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "PR-1126-09 fin"

2016-11-26 10 Frequency MHz	:43 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.240000	23.80	10.9	62	38.3	QP	N	GND
0.720000	43.00	11.1	56	13.0	QP	N	GND
1.980000	39.30	11.3	56	16.7	QP	N	GND
4.280000	44.70	11.4	56	11.3	QP	N	GND
5.340000	30.00	11.5	60	30.0	QP	N	GND
19.325000	25.50	11.7	60	34.5	QP	N	GND

#### MEASUREMENT RESULT: "PR-1126-09 fin2"

2016-11-26 10 Frequency MHz	:43 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.240000	37.10	10.9	52	15.0	AV	N	GND
0.715000	36.00	11.1	46	10.0	AV	N	GND
1.030000	32.80	11.1	46	13.2	AV	N	GND
4.280000	33.30	11.4	46	12.7	AV	N	GND
5.490000	23.30	11.5	50	26.7	AV	N	GND
19.250000	19.40	11.7	50	30.6	AV	N	GND



Page 17 of 56



ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: HDMI IN

Test Site: 2#Shielding Room

Operator: DING

Test Specification: L 120V/60Hz

Comment: Report NO.:ATE20162484 Start of Test: 2016-11-26 / 10:20:23

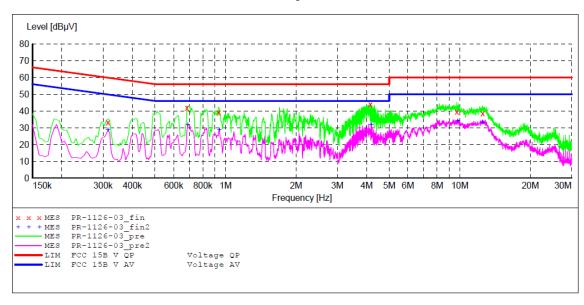
# SCAN TABLE: "V 150K-30MHz fin" Short Description: SUB S

SUB STD VTERM2 1.70

Step Start Stop

Detector Meas. IF Transducer
Time Bandw.
QuasiPeak 1.0 s 9 kHz NSLK8126 2008 Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz

Average



#### MEASUREMENT RESULT: "PR-1126-03 fin"

2016-11-26 Frequer				Margin dB	Detector	Line	PE
0.3150	000 33.1	0 10.9	60	26.7	OP	L1	GND
0.6850					~	L1	GND
0.9350	39.2	0 11.1	56	16.8	ÕР	L1	GND
4.1500	000 43.9	0 11.4	56	12.1	QP	L1	GND
9.7100	39.7	0 11.6	60	20.3	QP	L1	GND
12.5000	38.7	0 11.6	60	21.3	QP	L1	GND

#### MEASUREMENT RESULT: "PR-1126-03 fin2"

2016-11-2	6 10:2	1						
Freque	ncy	Level	Transd	Limit	Margin	Detector	Line	PE
1	MHz	dΒμV	dB	dΒμV	dB			
0.315	000	29.00	10.9	50	20.8	AV	L1	GND
0.690	000	31.90	11.1	46	14.1	AV	L1	GND
0.940	000	28.90	11.1	46	17.1	AV	L1	GND
4.180	000	31.80	11.4	46	14.2	AV	L1	GND
9.780	000	34.20	11.6	50	15.8	AV	L1	GND
12.500	000	33.30	11.6	50	16.7	AV	L1	GND



Page 18 of 56



ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: HDMI IN

Test Site: 2#Shielding Room

Operator: DING

Test Specification: N 120V/60Hz

Comment: Report NO.:ATE20162484 Start of Test: 2016-11-26 / 10:21:56

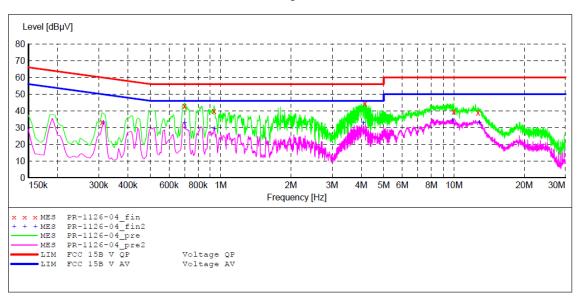
SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB S SUB STD VTERM2 1.70

Start Step Stop

Detector Meas. IF Transducer
Time Bandw.

QuasiPeak 1.0 s 9 kHz NSLK8126 2008 Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz

Average



#### MEASUREMENT RESULT: "PR-1126-04 fin"

201	6-11-26 10: Frequency MHz	:23 Level dBμV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.310000	33.30	10.9	60	26.7	QP	N	GND
	0.700000	43.00	11.1	56	13.0	QP	N	GND
	0.935000	39.90	11.1	56	16.1	QP	N	GND
	4.150000	44.20	11.4	56	11.8	QP	N	GND
	9.980000	39.50	11.6	60	20.5	QP	N	GND
	12.675000	38.80	11.6	60	21.2	QP	N	GND

#### MEASUREMENT RESULT: "PR-1126-04 fin2"

2016-11-26 10 Frequency MHz	0:23 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.315000	33.30	10.9	50	16.5	Δ77	N	GND
0.700000	32.80	11.1	46	13.2	AV	N	GND
0.940000	29.50	11.1	46	16.5	AV	N	GND
4.080000	32.90	11.4	46	13.1	AV	N	GND
9.850000	34.70	11.6	50	15.3	AV	N	GND
12.850000	33.10	11.6	50	16.9	AV	N	GND





Page 19 of 56

#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: LED touch display M/N:LE-55MEM0E

Manufacturer: PRIMA Operating Condition: USB PLAYING 2#Shielding Room Test Site:

Operator: DING

Test Specification: L 120V/60Hz

Report NO.:ATE20162484 2016-11-26 / 10:37:03 Comment: Start of Test:

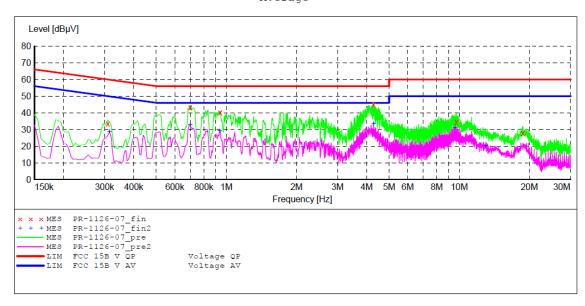
#### SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Detector Meas. IF
Time Bandw.
QuasiPeak 1.0 s 9 kHz Start Stop Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kH 4.5 kHz NSLK8126 2008

Average

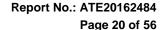


#### MEASUREMENT RESULT: "PR-1126-07 fin"

2016-11-26 1 Frequency MHz	0:38 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.310000	33.60	10.9	60	26.4	QP	L1	GND
0.700000	43.20	11.1	56	12.8	QP	L1	GND
0.940000	40.30	11.1	56	15.7	QP	L1	GND
4.280000	45.00	11.4	56	11.0	QP	L1	GND
9.720000	34.70	11.6	60	25.3	QP	L1	GND
18.750000	27.80	11.7	60	32.2	QP	L1	GND

#### MEASUREMENT RESULT: "PR-1126-07 fin2"

2016	-11-26 10:	38						
F	requency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.315000	29.00	10.9	50	20.8	AV	L1	GND
	0.700000	33.00	11.1	46	13.0	AV	L1	GND
	0.935000	29.10	11.1	46	16.9	AV	L1	GND
	4.280000	33.70	11.4	46	12.3	AV	L1	GND
	9.580000	31.20	11.6	50	18.8	AV	L1	GND
1	3.025000	20.60	11.6	50	29.4	AV	L1	GND





#### CONDUCTED EMISSION STANDARD FCC PART 15B

LED touch display M/N:LE-55MEM0E

PRIMA Manufacturer: Operating Condition: USB PLAYING Test Site: 2#Shielding Room

DING Operator:

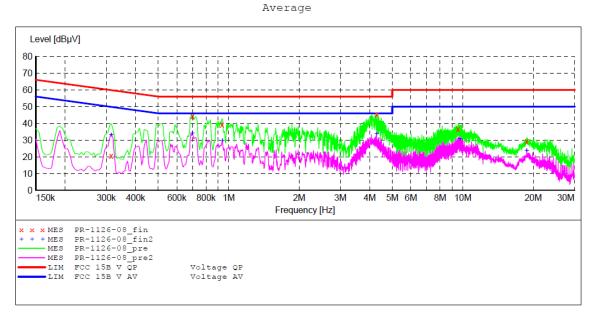
Test Specification: N 120V/60Hz

Comment: Report NO.:ATE20162484 Start of Test: 2016-11-26 / 10:38:32

#### SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Detector Meas. IF Transducer
Time Bandw.
QuasiPeak 1.0 s 9 kHz NSLK8126 2008 Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz

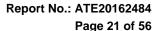


#### MEASUREMENT RESULT: "PR-1126-08 fin"

2	016-11-26 10	:39						
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	MHZ	αвμν	uБ	αБμν	αв			
	0.315000	20.60	10.9	60	39.2	QP	N	GND
	0.700000	44.10	11.1	56	11.9	QP	N	GND
	0.935000	39.20	11.1	56	16.8	QP	N	GND
	4.280000	45.10	11.4	56	10.9	QP	N	GND
	9.550000	36.60	11.6	60	23.4	QP	N	GND
	18.750000	29.40	11.7	60	30.6	QP	N	GND

#### MEASUREMENT RESULT: "PR-1126-08 fin2"

2016-11-26 10	39						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.315000	33.40	10.9	50	16.4	AV	N	GND
0.700000	34.10	11.1	46	11.9	AV	N	GND
0.940000	29.80	11.1	46	16.2	AV	N	GND
4.280000	33.80	11.4	46	12.2	AV	N	GND
9.720000	31.00	11.6	50	19.0	AV	N	GND
18.750000	23.80	11.7	50	26.2	AV	N	GND

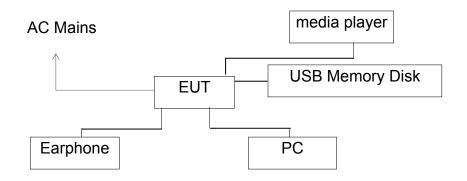




5. RADIATED EMISSION MEASUREMENT

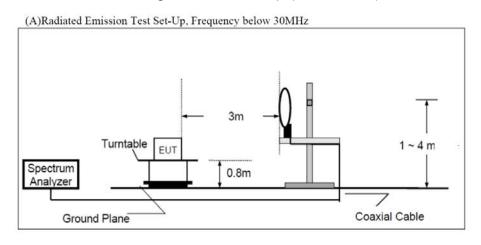
# 5.1.Block Diagram of Test

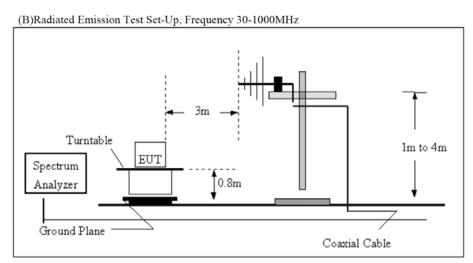
5.1.1.Block diagram of connection between the EUT and simulators



(EUT: LED touch display)

### 5.1.2.Block diagram of test setup (In chamber)



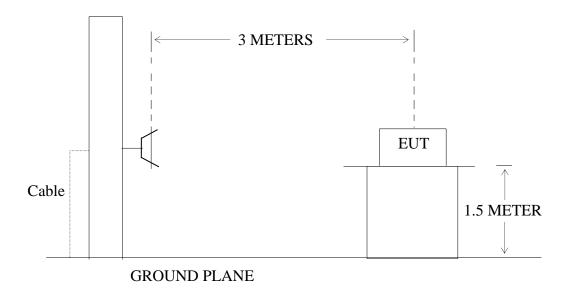


FCC ID: 2ADID-LE-55ME0E ACCURATE TECHNOLOGY CO., LTD





# (C) Radiated Emission Test Set-Up, Frequency above 1GHz



# 5.2. Test mode description

Test mode 1: AV IN Test mode 2: VGA IN

Test mode 3: COMPONENT IN

Test mode 4: HDMI IN

Test mode 5: USB PLAYING



Page 23 of 56

## 5.3.Radiated Emission Limit (Class B)

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency	Distance	Field Stren	gths Limit
MHz	Meters	μV/m	dB(μV/m)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

#### Remark:

- (1) Emission level dB( $\mu$ V) = 20 log Emission level  $\mu$ V/m.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

#### 5.4.Manufacturer

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 5.4.1.LED touch display (EUT)

Model Number: LE-55ME0E

Manufacturer: Xiamen Prima Technology Inc.

# 5.5. Operating Condition of EUT

- 5.5.1. Setup the EUT and simulator as shown as Section 5.1
- 5.5.2. Turn on the power of all equipment.
- 5.5.3.Let the EUT work in test mode and measure it.



Page 24 of 56

### 5.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz.

The frequency range from 9KHz to 2000MHz is checked. Note: The EUT highest operating frequency provided by Manufacturer is 144MHz, the radiated emission measurement shall be made up to 2 GHz.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

#### 5.7. Radiated Emission Noise Measurement Result

#### PASS.

The frequency range from 9KHz to 2000MHz is investigated.

The radiation emissions from 9K-30MHz is not reported, because the test values lower than the limits of 20dB.

The spectral diagrams are attached as below.



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Page 25 of 56

#### Below 1GHz



# ACCURATE TECHNOLOGY CO., LTD.

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Job No.: DING11 #355 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

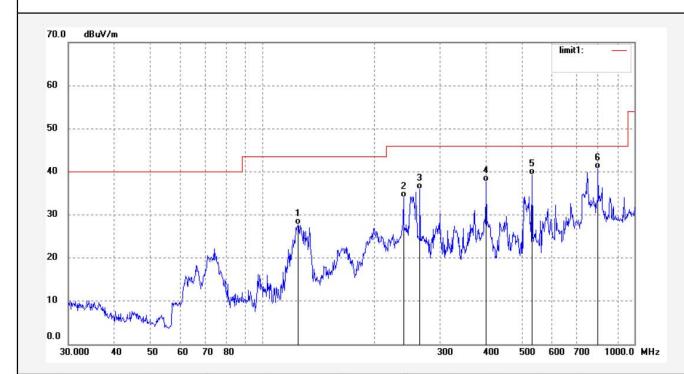
Test item: Radiation Test Date: 16/11/30/
Temp.( C)/Hum.(%) 25 C / 55 % Time: 9/17/15

EUT: LED touch display Engineer Signature: DING

Mode: AV IN Distance: 3m

Model: LE-55ME0E

Manufacturer: PRIMA



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	124.4868	49.83	-22.03	27.80	43.50	-15.70	QP			
2	239.3017	52.23	-18.18	34.05	46.00	-11.95	QP			
3	264.9707	53.30	-17.25	36.05	46.00	-9.95	QP			
4	399.6981	50.64	-13.01	37.63	46.00	-8.37	QP			
5	531.2910	49.40	-10.15	39.25	46.00	-6.75	QP			
6	798.6204	44.96	-4.19	40.77	46.00	-5.23	QP			





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Report No.: ATE20162484

Page 26 of 56

Job No.: DING11 #354 Pole

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: LED touch display

Mode: AV IN

Model: LE-55ME0E
Manufacturer: PRIMA

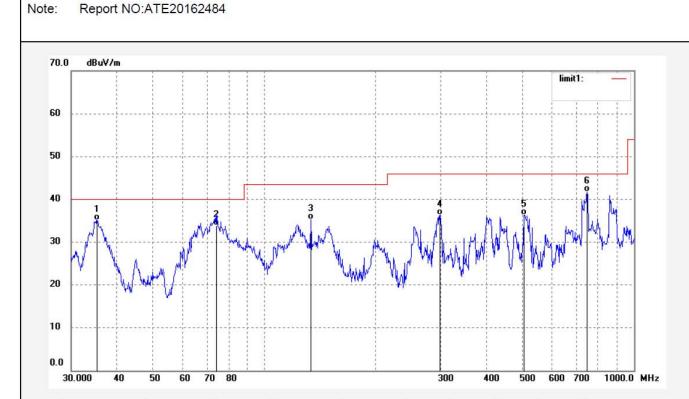
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 16/11/30/ Time: 9/14/52

Engineer Signature: DING

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.2625	51.13	-16.05	35.08	40.00	-4.92	QP			
2	74.0092	56.18	-22.26	33.92	40.00	-6.08	QP			
3	133.5491	57.52	-22.20	35.32	43.50	-8.18	QP			
4	298.5932	52.07	-15.78	36.29	46.00	-9.71	QP			
5	504.0151	47.18	-10.82	36.36	46.00	-9.64	QP			
6	747.0465	46.93	-5.21	41.72	46.00	-4.28	QP			





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Report No.: ATE20162484

Page 27 of 56

Job No.: DING11 #360

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

Report NO:ATE20162484

EUT: LED touch display

Mode: VGA IN

Model: LE-55ME0E

Manufacturer: PRIMA

Note:

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 16/11/30/ Time: 9/29/12

Engineer Signature: DING

Distance: 3m

						1		limit1	l: —
60	 								
50									
40		1			2	3		4	5 6
30	 		1			LA LALA	Man	Milyalo	1- White
20	 m		MAN COL	Marin Market	4	MMA	N. A.A.	W N V	

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	133.5491	52.28	-22.20	30.08	43.50	-13.42	QP			
2	264.9707	56.30	-17.25	39.05	46.00	-6.95	QP			
3	399.6981	51.64	-13.01	38.63	46.00	-7.37	QP			
4	531.2910	50.90	-10.15	40.75	46.00	-5.25	QP		j	
5	747.0465	46.56	-5.21	41.35	46.00	-4.65	QP			
6	798.6204	43.96	-4.19	39.77	46.00	-6.23	QP			

30.000

60 70 80





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Report No.: ATE20162484

Page 28 of 56

Job No.: DING11 #361

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: LED touch display

Mode: VGA IN

Model: LE-55ME0E

Manufacturer: PRIMA

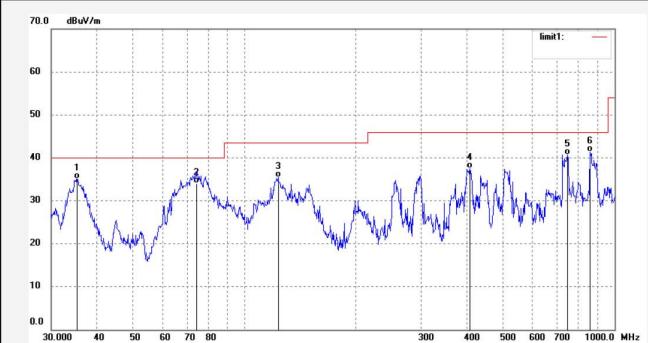
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 16/11/30/ Time: 9/32/07

Engineer Signature: DING

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.2625	51.13	-16.05	35.08	40.00	-4.92	QP			
2	74.0092	56.27	-22.26	34.01	40.00	-5.99	QP			
3	123.1812	57.35	-21.99	35.36	43.50	-8.14	QP			
4	406.7819	50.47	-12.88	37.59	46.00	-8.41	QP			
5	747.0465	45.93	-5.21	40.72	46.00	-5.28	QP			
6	859.7753	44.43	-3.07	41.36	46.00	-4.64	QP			





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Report No.: ATE20162484

Page 29 of 56

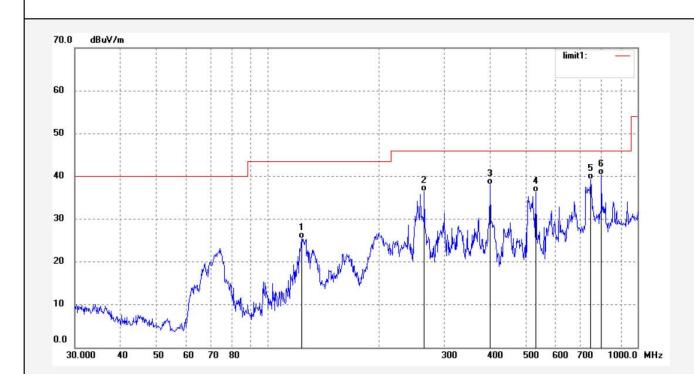
Job No.: DING11 #356 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 16/11/30/
Temp.( C)/Hum.(%) 25 C / 55 % Time: 9/19/28

EUT: LED touch display Engineer Signature: DING Mode: COMPONENT IN Distance: 3m

Model: LE-55ME0E
Manufacturer: PRIMA



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	123.1812	47.53	-21.99	25.54	43.50	-17.96	QP			
2	264.9707	53.80	-17.25	36.55	46.00	-9.45	QP			
3	399.6981	51.14	-13.01	38.13	46.00	-7.87	QP			
4	531.2910	46.40	-10.15	36.25	46.00	-9.75	QP			
5	747.0465	44.56	-5.21	39.35	46.00	-6.65	QP			
6	798.6204	44.46	-4.19	40.27	46.00	-5.73	QP			



Report No.: ATE20162484 Page 30 of 56

OLOGY CO., LTD.

Material Port Keyuan Rd, rshan Shenzhen, P.R.China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

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Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 16/11/30/ Time: 9/22/37

Engineer Signature: DING

Distance: 3m

Job No.: DING11 #357

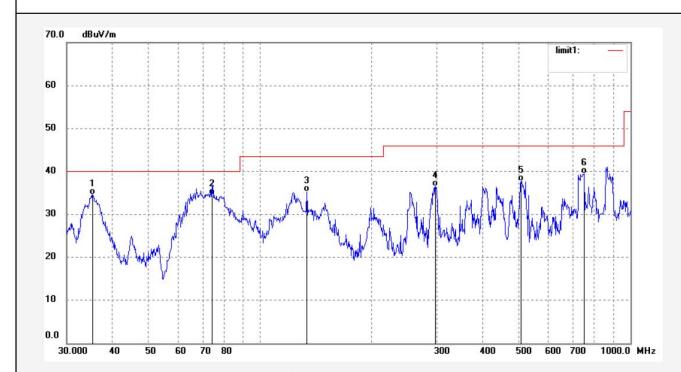
Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: LED touch display
Mode: COMPONENT IN

Model: LE-55ME0E
Manufacturer: PRIMA



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.2625	50.63	-16.05	34.58	40.00	-5.42	QP			
2	74.0092	56.87	-22.26	34.61	40.00	-5.39	QP			
3	133.5491	57.52	-22.20	35.32	43.50	-8.18	QP			
4	297.5459	52.32	-15.82	36.50	46.00	-9.50	QP			
5	507.5692	48.47	-10.72	37.75	46.00	-8.25	QP		67	
6	749.6761	44.62	-5.14	39.48	46.00	-6.52	QP			