Produkte
Products

TÜVRheinland®

Prüfbericht - Nr.: *Test Report No.:*	**17028743 001**	**Seite 1 von 17** *Page 1 of 17*
Auftraggeber: *Client:*	**Blue Ocean Innovation Limited** Rm.1813, Fo Tan Industrial Centre, 26-28 Au Pui Wan Street, Hong Kong	
Gegenstand der Prüfung: *Test item:*	RECHARGEABLE PAGER	
Bezeichnung: *Identification:*	450303	**Serien-Nr.:** *Serial No.:* n.a.
Wareneingangs-Nr.: *Receipt No.:*	163098467	**Eingangsdatum:** *Date of receipt:* 2012-09-21
Zustand des Prüfgegenstandes bei Anlieferung: **Condition of test item at delivery:**	Test samples received are sufficient for testing and not damaged.	
Prüfort: *Testing location:*	Shenzhen Accurate Technology Co., Ltd. F1, Bldg. A, Changyuan New Meterial Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China FCC Registration No.: 752051 Test site Industry Canada No.: 5077A	
Prüfgrundlage: *Test specification:*	**FCC Part 15 Subpart B (ANSI C63.4: 2003)** **ICES-003 Issue 4 February 2004 (CAN/CSA-CEI/IEC CISPR 22-02)** **RSS-Gen Issue 3 December 2010**	
Prüfergebnis: *Test Result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*	
Prüflaboratorium: *Testing Laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	

geprüft/ *tested by:*

Datum / Date	Name/Stellung / Name/Position	Unterschrift / Signature
2013-01-20	Tonglee/ Project Manager	

kontrolliert/ *reviewed by:*

Datum / Date	Name/Stellung / Name/Position	Unterschrift / Signature
2013-01- 23	Winnie Hou/ Technical Certifier	

Sonstiges/ *Other Aspects:*

Abkürzungen:				*Abbreviations:*			
	P(ass)	=	*entspricht Prüfgrundlage*		*P(ass)*	=	*passed*
	F(ail)	=	*entspricht nicht Prüfgrundlage*		*F(ail)*	=	*failed*
	N/A	=	*nicht anwendbar*		*N/A*	=	*not applicable*
	N/T	=	*nicht getestet*		*N/T*	=	*not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

TEST SUMMARY

5.1.1 CONDUCTED EMISSION

RESULT: Passed

5.2.1 RADIATED EMISSION

RESULT: Passed

Contents

1. GENERAL REMARKS 4
1.1 COMPLEMENTARY MATERIALS 4
2. TEST SITES 4
2.1 TEST FACILITIES 4
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS 5
2.3 TRACEABILITY 5
2.4 CALIBRATION 5
2.5 MEASUREMENT UNCERTAINTY 6
2.6 LOCATION OF ORIGINAL DATA 6
2.7 STATUS OF FACILITY USED FOR TESTING 6
3. GENERAL PRODUCT INFORMATION 7
3.1 PRODUCT FUNCTION AND INTENDED USE 7
3.2 RATINGS AND SYSTEM DETAILS 7
3.3 INDEPENDENT OPERATION MODES 7
3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS 8
3.5 SUBMITTED DOCUMENTS 8
4. TEST SET-UP AND OPERATION MODES 9
4.1 PRINCIPLE OF CONFIGURATION SELECTION 9
4.2 TEST OPERATION AND TEST SOFTWARE 9
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT 9
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE 9
4.5 TEST SETUP DIAGRAM 10
5. TEST RESULTS E M I S S I O N 12
5.1 EMISSION IN THE FREQUENCY RANGE UP TO 30 MHZ 12
5.1.1 Conducted Emission 12
5.2 EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHZ 13
5.2.1 Radiated Emission 13
6. PHOTOGRAPHS OF THE TEST SET-UP 14
7. LIST OF TABLES 17
8. LIST OF PHOTOGRAPHS 17

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Meterial Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051
Test site Industry Canada No.: 5077A

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-07
Artificial Mains Network	Schwarzbeck	NLSK8126	8126431	2013-01-07
Radiated Emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2013-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2013-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2013-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2013-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2013-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	2013-01-07

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are ±3dB.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. located at F1, Bldg. A, Changyuan New Meterial Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is rechargeable pager, which is UHF recevers work at 457.6MHz. The EUT is used to call customers.
For more information refer to the Instruction Manual & Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	RECHARGEABLE PAGER
Type Designation:	450303
FCC ID	VU3-RECHARGE457

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	457.6MHz
Operation Voltage	DC2.4V
Modulation	FM
Antenna Type	Internal Antenna, Non-User Replaceable

3.3 Independent Operation Modes

The basic operation modes are:
A. Receiving
B. Charging (via external specified charger)
C. Stand by
D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Construction Drawing
- User's Manual
- PCB Layout
- Bill of Material
- Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

Item Description	Model No.	Manufacturer
AC/DC Adapter	TR36A-13 03A03	CINCON Electronics Co., Ltd.
Battery Plate	--	Ocean Springs Metal Manufacture Limited.

Note: the adapter is only for testing, not marketed with EUT.

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

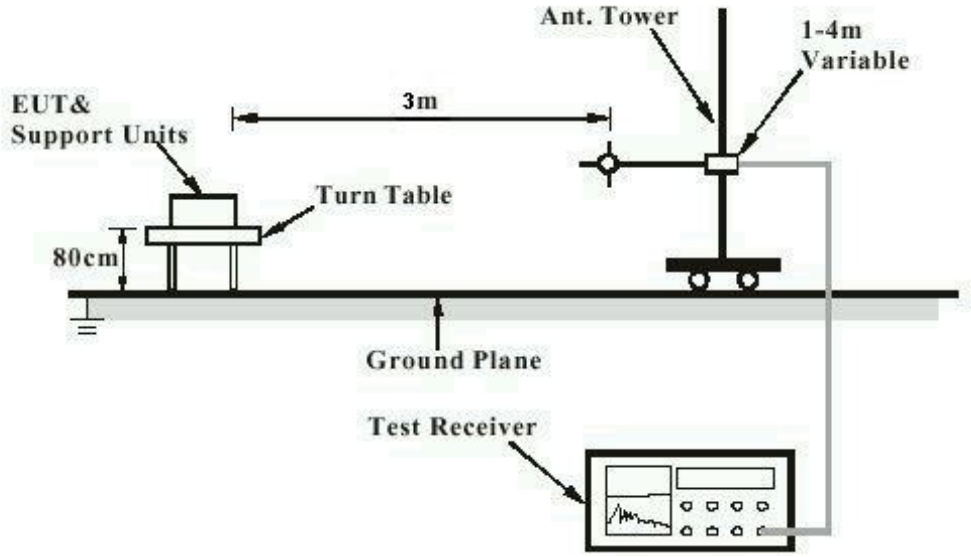


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

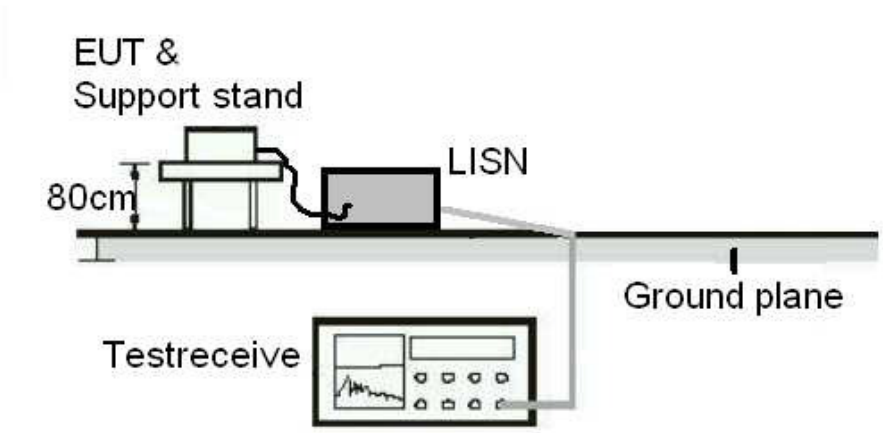
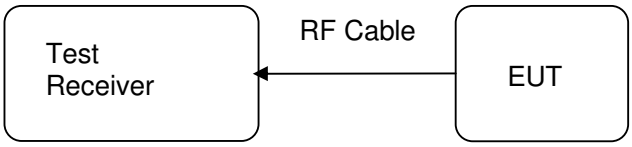


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted Emission

RESULT: **Passed**

Date of testing	:	2012-10-30
Test specification	:	FCC Part 15 Per Section 15.107(a) Clause 5.3 of ICES-003 RSS-Gen 7.2.4
Frequency range	:	0.15 – 30MHz
Classification	:	Class B
Test procedure	:	ANSI C63.4: 2003 CAN/CSA-CEI/IEC CISPR 22-02 Table 4 of RSS-GEN
Deviations from standard test procedure	:	None
Kind of test site	:	Shielded room

Test setup

Input Voltage	:	AC120V 60Hz to AC/DC Adapter
Operation mode	:	B
Artificial hand	:	Not applied
Earthing	:	Not connected

Test data refer to Appendix 1.

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission

RESULT: **Passed**

Date of testing	:	2012-10-30
Test standard	:	FCC Part 15 Per Section 15.109(a) Clause 5.5 of ICES-003 RSS-Gen 7.1.4
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Test procedure	:	ANSI C63.4: 2003 CAN/CSA-CEI/IEC CISPR 22-02 RSS-Gen Table 5
Deviation from standard test procedure	:	None
Kind of test site	:	3m Semi-Anechoic Chamber

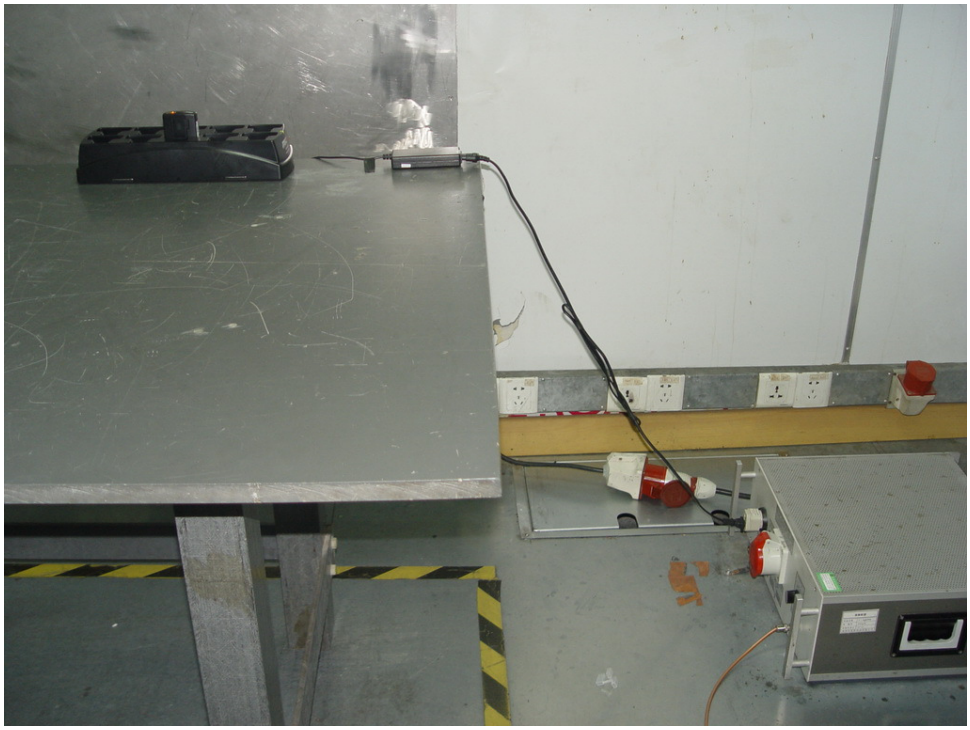
Test setup

Input Voltage	:	AC120V 60Hz to AC/DC Adapter
Operation mode	:	A
Earthing	:	Not connected

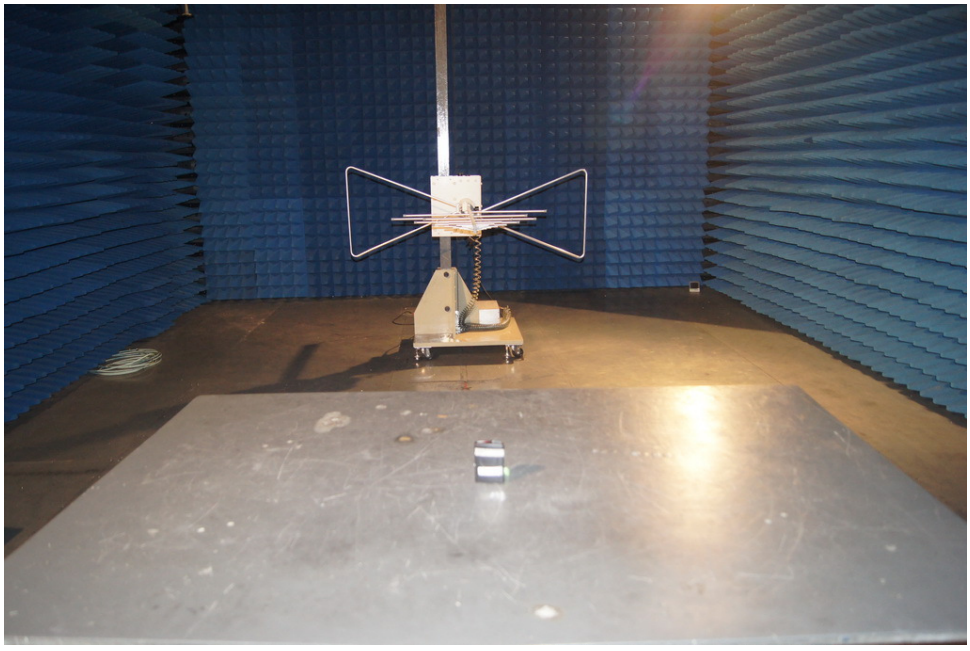
Test data refer to Appendix 1.

6. Photographs of the Test Set-Up

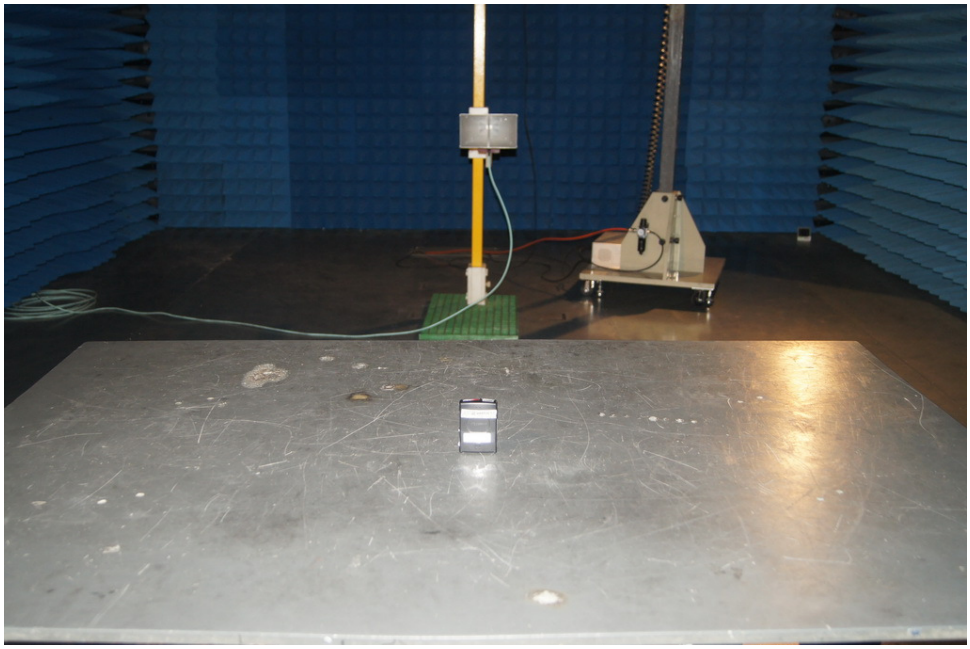
Photograph 1: Set-up for Conducted Emission



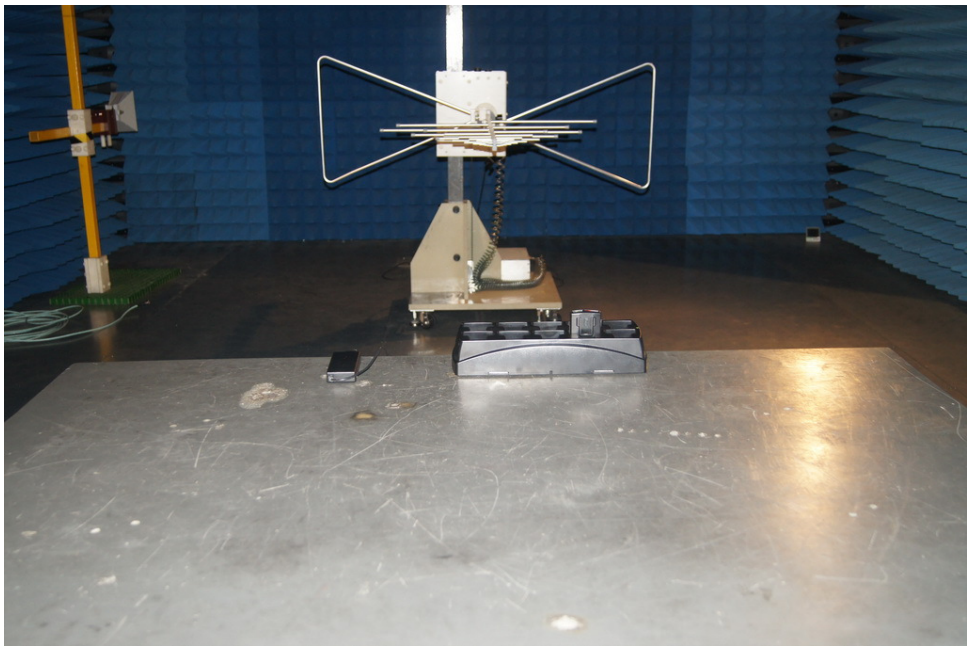
Photograph 2: Set-up for Radiated Emission, below 1GHz, mode A



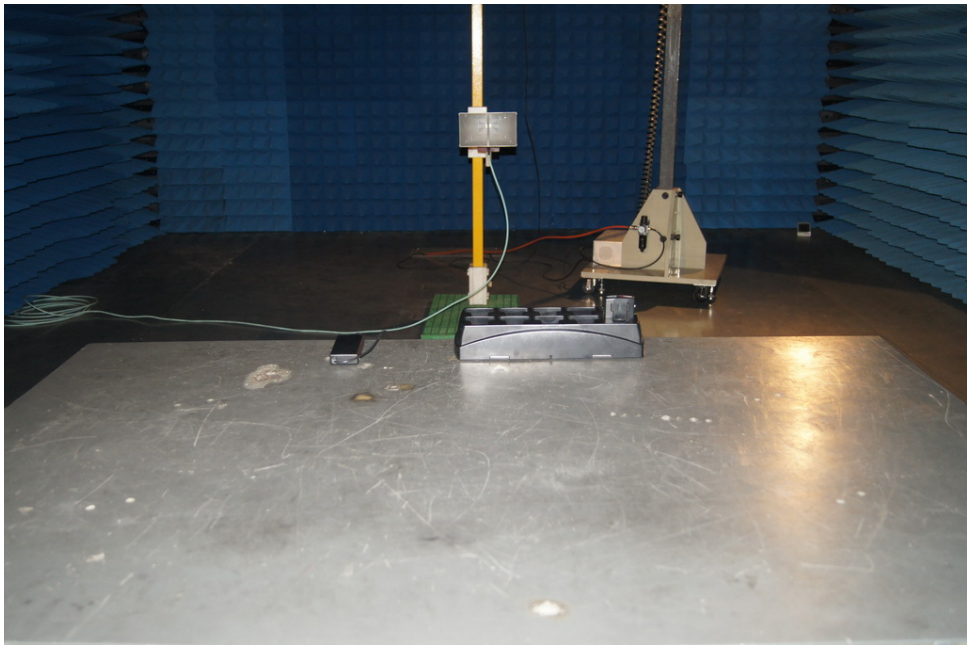
Photograph 3: Set-up for Radiated Emission, above 1GHz, mode A



Photograph 4: Set-up for Radiated Emission, below 1GHz, mode B



Photograph 5: Set-up for Radiated Emission, above 1GHz, mode B



7. List of Tables

Table 1: List of Test and Measurement Equipment....5
Table 2: Rating of EUT....7
Table 3: Technical Specification of EUT....7

8. List of Photographs

Photograph 1: Set-up for Conducted Emission....14
Photograph 2: Set-up for Radiated Emission, below 1GHz, mode A....14
Photograph 3: Set-up for Radiated Emission, above 1GHz, mode A....15
Photograph 4: Set-up for Radiated Emission, below 1GHz, mode B....15
Photograph 5: Set-up for Radiated Emission, above 1GHz, mode B....16

List of Figures

Figure 1: Test figure of conducted emissions, mode B, line live 2
Figure 2: Test figure of conducted emissions, mode B, line neutral 3
Figure 3: Test figure of Radiated emissions, mode A, Horizontal polarity (30MHz – 1GHz) 4
Figure 4: Test figure of Radiated emissions, mode A, Vertical polarity (30MHz – 1GHz) 5
Figure 5: Test figure of Radiated emissions, mode A, Horizontal polarity (1GHz – 6GHz) 6
Figure 6: Test figure of Radiated emissions, mode A, Vertical polarity (1GHz – 6GHz).....7
Figure 7: Test figure of Radiated emissions, mode B, Horizontal polarity (30MHz – 1GHz) 8
Figure 8: Test figure of Radiated emissions, mode B, Vertical polarity (30MHz – 1GHz) 9
Figure 9: Test figure of Radiated emissions, mode B, Horizontal polarity (1GHz – 6GHz) 10
Figure 10: Test figure of Radiated emissions, mode B, Vertical polarity (1GHz – 6GHz).....11

Figure 1: Test figure of conducted emissions, mode B, line live

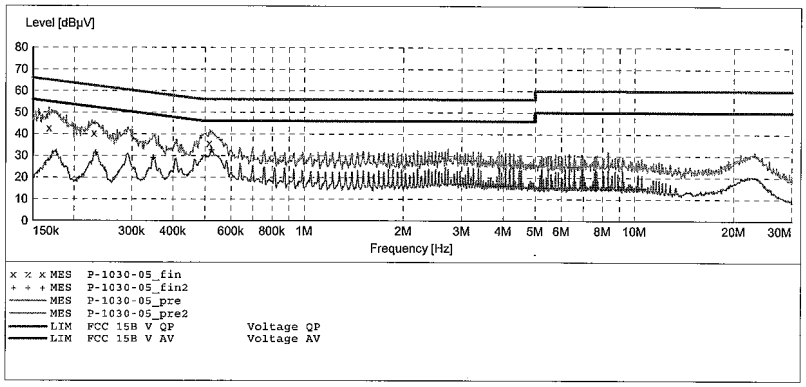
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Commpass Pager M/N:450303
Manufacturer:         Blue Ocean Innovation
Operating Condition:  B
Test Site:            1#Shielding Room
Operator:             PEI
Test Specification:   L 120V/60Hz
Comment:              Mains port
Start of Test:        10/30/2012 / 1:19:05PM
```

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

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  150.0 kHz  30.0 MHz   0.8 %     QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "P-1030-05_fin"

```
10/30/2012  1:22PM
   Frequency     Level  Transd  Limit  Margin  Detector  Line   PE
         MHz      dBµV      dB   dBµV      dB

    0.167739     42.80    11.1     65    22.3  QP        L1     GND
    0.229932     40.40    11.4     63    22.1  QP        L1     GND
    0.515002     35.80    12.0     56    20.2  QP        L1     GND
```

MEASUREMENT RESULT: "P-1030-05_fin2"

```
10/30/2012  1:22PM
   Frequency     Level  Transd  Limit  Margin  Detector  Line   PE
         MHz      dBµV      dB   dBµV      dB

    0.232702     31.30    11.4     52    21.1  AV        L1     GND
    0.348261     29.00    11.7     49    20.0  AV        L1     GND
    0.523291     32.60    12.0     46    13.4  AV        L1     GND
```

Figure 2: Test figure of conducted emissions, mode B, line neutral

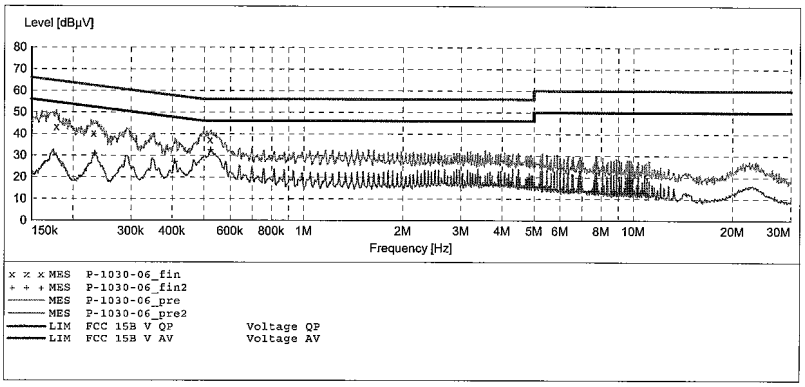
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Commpass Pager M/N:450303
Manufacturer:         Blue Ocean Innovation
Operating Condition:  B
Test Site:            1#Shielding Room
Operator:             PEI
Test Specification:   N 120V/60Hz
Comment:              Mains port
Start of Test:        10/30/2012 / 1:23:06PM
```

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

```
  Short Description:                _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  150.0 kHz  30.0 MHz   0.8 %       QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                    Average
```



MEASUREMENT RESULT: "P-1030-06_fin"

10/30/2012 1:26PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178091	43.30	11.1	65	21.3	QP	N	GND
0.230851	40.30	11.4	62	22.1	QP	N	GND
0.521206	37.30	12.0	56	18.7	QP	N	GND

MEASUREMENT RESULT: "P-1030-06_fin2"

10/30/2012 1:26PM

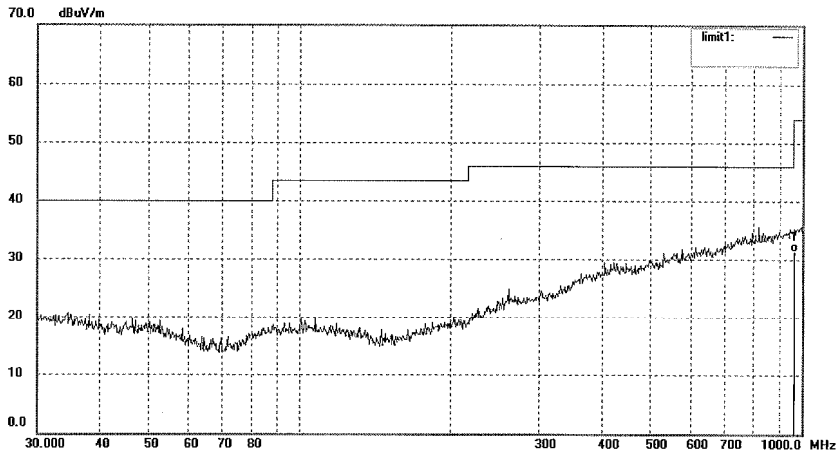
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.232702	30.80	11.4	52	21.6	AV	N	GND
0.406930	27.00	11.8	48	20.7	AV	N	GND
0.523291	32.50	12.0	46	13.5	AV	N	GND

Figure 3: Test figure of Radiated emissions, mode A, Horizontal polarity (30MHz – 1GHz)

ATC®
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #361	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 2.4V
Test item: Radiation Test	Date: 12/10/30/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/06/56
EUT: Commpass Pager	Engineer Signature: PEI
Mode: A	Distance: 3m
Model: 450303	
Manufacturer: Blue Ocean Innovation	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	960.0000	1.78	29.69	31.47	46.00	-14.53	QP			

Figure 4: Test figure of Radiated emissions, mode A, Vertical polarity (30MHz – 1GHz)

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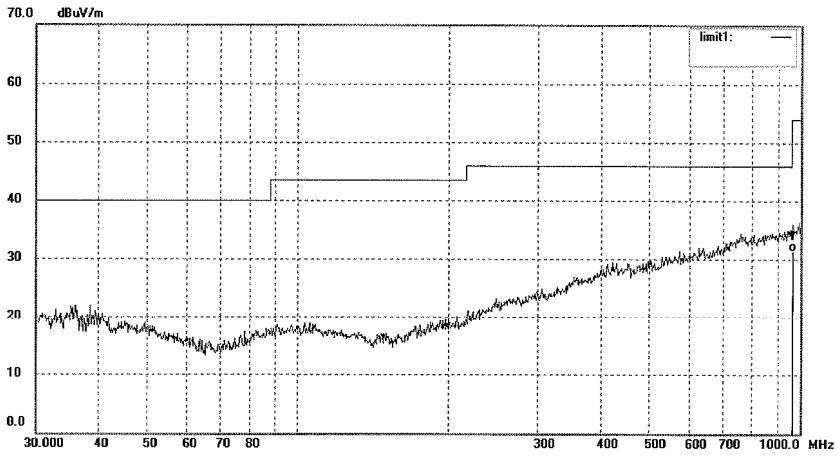
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #360	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 2.4V
Test item: Radiation Test	Date: 12/10/30/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/57/50
EUT: Commpass Pager	Engineer Signature: PEI
Mode: A	Distance: 3m
Model: 450303	
Manufacturer: Blue Ocean Innovation	

Note:



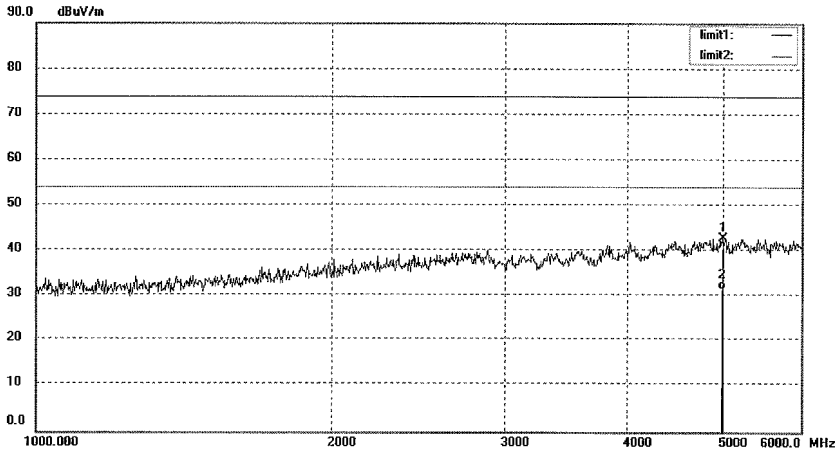
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	960.0000	1.64	29.69	31.33	46.00	-14.67	QP			

Figure 5: Test figure of Radiated emissions, mode A, Horizontal polarity (1GHz – 6GHz)

ATC®
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #354	Polarization: Horizontal
Standard: FCC PART 15B	Power Source: DC 2.4V
Test item: Radiation Test	Date: 12/10/30/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/03/53
EUT: Commpass Pager	Engineer Signature: PEI
Mode: A	Distance: 3m
Model: 450303	
Manufacturer: Blue Ocean Innovation	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4983.310	42.24	0.62	42.86	74.00	-31.14	peak			
2	4983.310	31.05	0.62	31.67	54.00	-22.33	AVG			

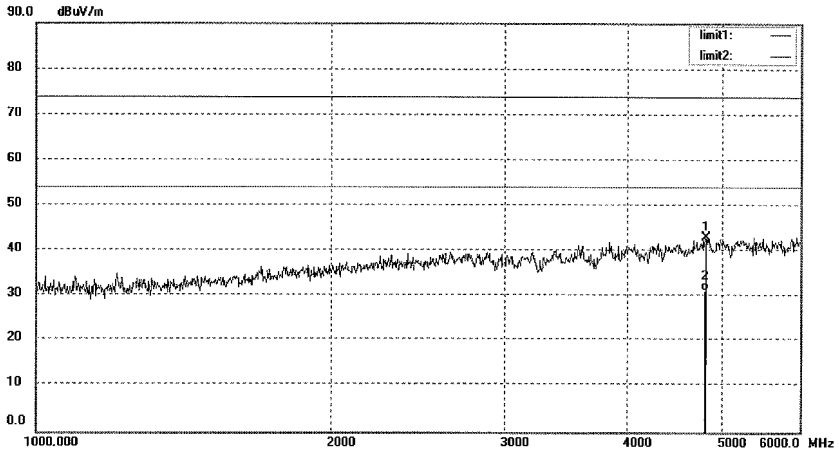
Figure 6: Test figure of Radiated emissions, mode A, Vertical polarity (1GHz – 6GHz)

ATC®
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #355
Standard: FCC PART 15B
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Commpass Pager
Mode: A
Model: 450303
Manufacturer: Blue Ocean Innovation

Polarization: Vertical
Power Source: DC 2.4V
Date: 12/10/30/
Time: 10/14/16
Engineer Signature: PEI
Distance: 3m

Note:



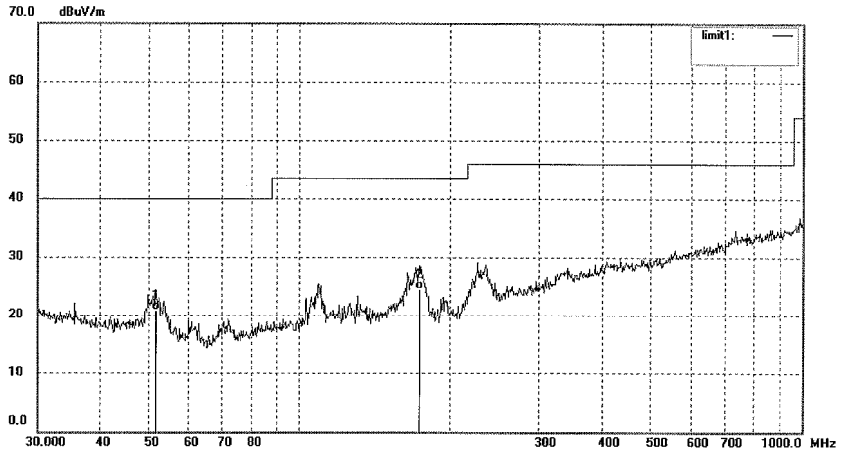
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4798.197	43.45	-0.32	43.13	74.00	-30.87	peak			
2	4798.197	31.75	-0.32	31.43	54.00	-22.57	AVG			

Figure 7: Test figure of Radiated emissions, mode B, Horizontal polarity (30MHz – 1GHz)

ATC®
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #346	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/10/30/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/49/01
EUT: Commpass Pager	Engineer Signature: PEI
Mode: B	Distance: 3m
Model: 450303	
Manufacturer: Blue Ocean Innovation	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	51.7179	6.99	13.98	20.97	40.00	-19.03	QP			
2	173.2051	11.62	12.94	24.56	43.50	-18.94	QP			

Figure 8: Test figure of Radiated emissions, mode B, Vertical polarity (30MHz – 1GHz)

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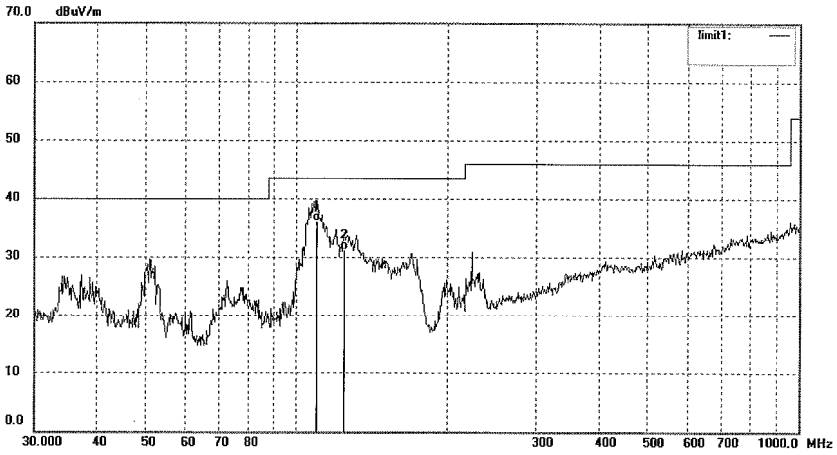
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #347
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Commpass Pager
Mode: B
Model: 450303
Manufacturer: Blue Ocean Innovation

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/10/30/
Time: 8/58/41
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	109.6957	22.25	13.96	36.21	43.50	-7.29	QP			
2	124.4868	18.10	13.12	31.22	43.50	-12.28	QP			

Figure 9: Test figure of Radiated emissions, mode B, Horizontal polarity (1GHz – 6GHz)

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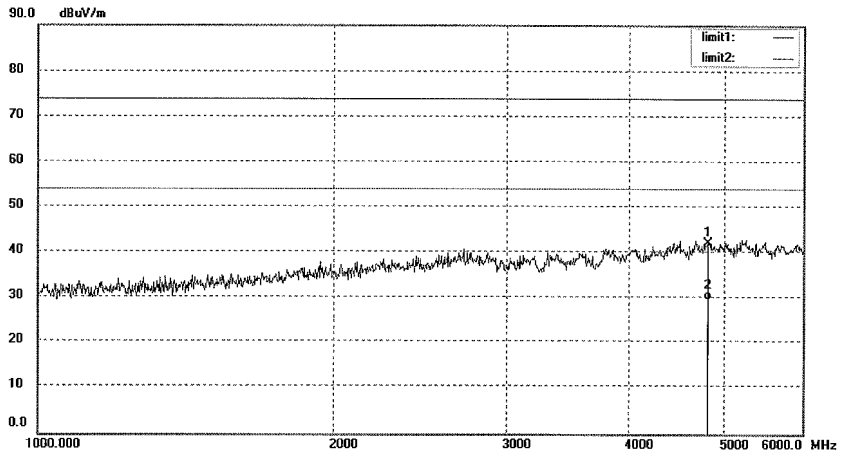
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #352	Polarization: Horizontal
Standard: FCC PART 15B	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/10/30/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/43/11
EUT: Commpass Pager	Engineer Signature: PEI
Mode: B	Distance: 3m
Model: 450303	
Manufacturer: Blue Ocean Innovation	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4815.526	42.38	-0.23	42.15	74.00	-31.85	peak			
2	4815.526	30.13	-0.23	29.90	54.00	-24.10	AVG			

Figure 10: Test figure of Radiated emissions, mode B, Vertical polarity (1GHz – 6GHz)

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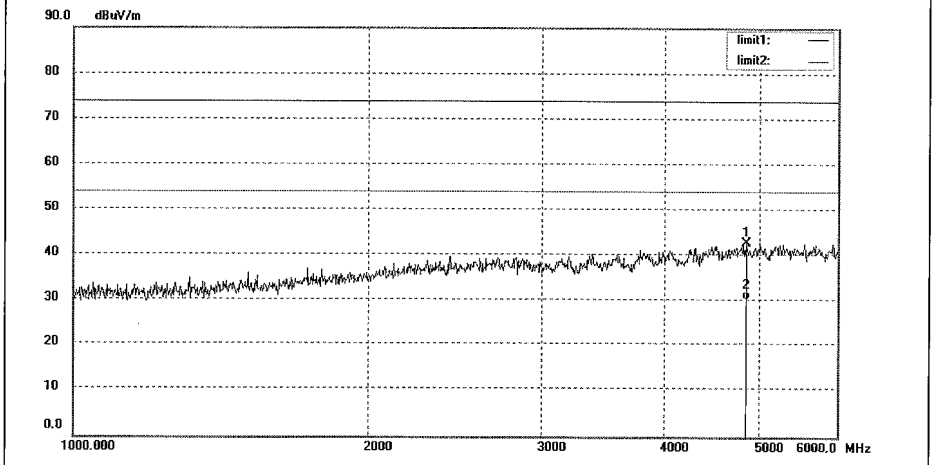
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #353
Standard: FCC PART 15B
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Commpass Pager
Mode: B
Model: 450303
Manufacturer: Blue Ocean Innovation

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/10/30/
Time: 9/52/39
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4841.638	42.85	-0.08	42.77	74.00	-31.23	peak			
2	4841.638	30.53	-0.08	30.45	54.00	-23.55	AVG			