

## CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID TEST REPORT

TEST REPORT NUMBER: CGZ3130817-00752-EF



**CENTRE OF TESTING SERVICE CO., LTD.** 

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China







	TEST REPORT For FCC ID
•	47 CFR PART 15 OCT, 2012
Report Reference No	CGZ3130817-00752-EF
Date of issue	. 22 August 2013
Testing Laboratory Name	CENTRE OF TESTING SERVICE CO., LTD.
Address	A101, No.65, Zhuji Highway,Tianhe District, Guangzhou, China
Testing location/ procedure	Full application of Harmonised standards ■
	Partial application of Harmonised standards $\square$
	Other standard testing method $\square$
Applicant's name	Venture Global Limited
Address	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong
Test specification	
Standard	.47 CFR PART 15 OCT, 2012, ANSI C63.4-2009,
Test Report Form No	.CTSEMC-1.0
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD.
Master TRF	Dated 2009-01
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Test item description	: Vibrating Pager
Trade Mark	VENGUARD
Manufacturer	Venture Global Limited
Model/Type reference	DCX-25
Ratings	Battery 1.5V*2
Operating Frequency	.914.8 MHz (RX)
Result	PASSED

Compiled by:

Supervised by:

Approved by:

Kate zhang / Fileadministrators

Duke yang / Technique principal

Vincent yao / Manager

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## FCCID-TEST REPORT

Test Report No. :	CGZ3130817-00752-EF	22 August 2013 Date of issue

Type / Model	DCX-25
EUT	Vibrating Pager
Applicant	Venture Global Limited
Address	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong
Telephone	+852-3529 1206
Fax	+852-3692 5980
Contact	CHOW, HING SANG ADAM
Manufacturer	Venture Global Limited
Manufacturer	Venture Global Limited Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong
	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai
Address	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong
Address Telephone	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong +852-3529 1206
Address Telephone	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong +852-3529 1206 +852-3692 5980
Address Telephone	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong +852-3529 1206 +852-3692 5980
Address Telephone Fax Contact	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong +852-3529 1206 +852-3692 5980
Address Telephone Fax Contact  Factory Address Telephone	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong +852-3529 1206 +852-3692 5980
Address Telephone Fax Contact  Factory Address	Rm:1102,11/F.,Fabrico Industrial Building,78-84 Kwai Cheong Road,Kwai Chung,N.T., HongKong +852-3529 1206 +852-3692 5980

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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#### 1. TEST STANDARDS

The tests were performed according to following standards:

- ■47 CFR PART 15 OCT, 2012
- ANSI C63.4-2009

#### 2. SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	21 August 2013	
Testing commenced on	21~22 August 2013	
Testing concluded on	22 August 2013	

#### 2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- fulfilled.
- ☐ **not** fulfilled.

The equipment under test

- fulfils the FCC requirements cited on page 1.
- **does not** fulfil the FCC requirements cited on page 1.

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#### 3. EQUIPMENT UNDER TEST

#### 3.1 Power supply system utilised

Power supply voltage : ■ Battery 1.5V\*2

☐ Other

#### 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype EUT type: Receiver

#### 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions: For Radiation emission:

■ -RX

Operation mode 1: RX

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

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#### 3.4 EUT configuration

#### 3.4.1. Description of configuration (EUT)

Description	:	Vibrating Pager
Model Number	:	DCX-25
Operation frequency	:	914.8MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	Internal Antenna

#### 3.4.2. Tested Supporting System Details

#### 3.4.1.Transmitter

M/N :	TFX-301
S/N :	N/A
Manufacturer :	Venture Global Ltd.
FCC ID :	YAHTFX-301

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#### 4. TEST ENVIRONMENT

#### 4.1 Address of the test laboratory

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#### 4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

#### FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE 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 No.791995, July 13,2012.

#### 4.3 Environmental conditions

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

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

#### 4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

#### 4.5 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 CTS 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.

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#### 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~18GHz	±3.54dB	(1)

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

#### 5. Summary of standards and results

#### 5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Results	
Conducted Emission Test	ANSI C63.4-2009 FCC Part 15 B: 15.107	N/A	
Radiated Emission Test	ANSI C63.4-2009 FCC Part 15 B: 109	PASSED	
N/A is an abbreviation for Not Applicable.			

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#### 6. Power Line Conducted Emission Test

#### 6.1.1 Description of the test location

Test location : Shielding Room

#### 6.1.2Test Equipment

Conduc	Conducted Disturbance				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2012/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2012/11
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2012/11
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2012/11
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2012/11

#### 6.2.1 Block Diagram of Test Setup

EUT(RX)

(EUT: Vibrating Pager)

#### 6.2.2 Description of the test set-up

6.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

6.1.2.2 Block Diagram of Test Setup

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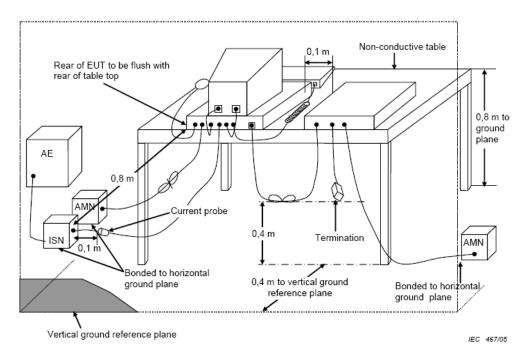
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#### 6.2.3 Limits of disturbance (Class B)

		Maximum RF Line Voltage	
Frequency		Quasi-Peak Level	Average Level
		dB(μV)	dB(μV)
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz	~ 5MHz	56	46
5MHz	~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

#### 6.2.4 Power Line Conducted Emission Test Results

Not applicable

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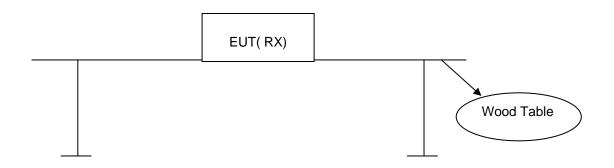
## 7. Radiated disturbance (electric field)

#### 7.1.Test Equipment

Radia	Radiated disturbance (electric field)										
Item	Test Equipment	Manufacturer Model No.		Serial No.	Last Cal.						
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2012/11						
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2013/03						
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2013/03						
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03						
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03						
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11						

#### 7.2.Block Diagram of Test Setup

#### 7.2.1 Block Diagram of connection between EUT and simulators



(EUT:Vibrating Pager)

#### 7.2.2 Anechoic Chamber Setup Diagram

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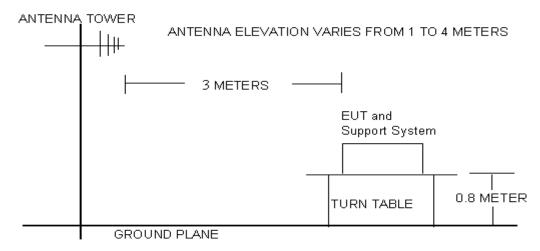
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#### 7.3. Radiated Emission Limit Standard: FCC 109

FREQUENCY			DISTANCE	FIELD STRENGTHS 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	
960	~	1000	3	500	54.0	
Above 1000			3	Other:74.0 dB(μ 54.0 dB(μV)/n		

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.

#### 7.4.Test Procedure

Set the transmitter on continued transmitting with amplitude mode.

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 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 polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, Pretest of EUT, final, select the worst case test and record the test results in the report.

The test modes is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

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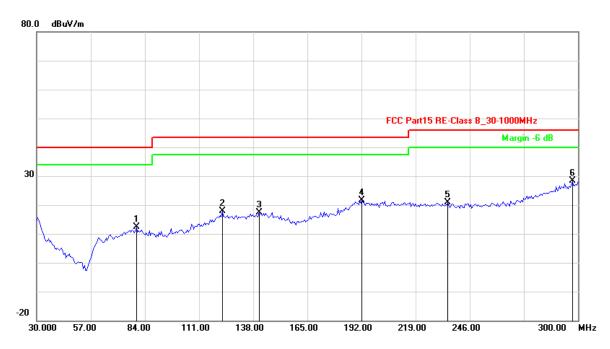


# 7.5.Radiated Emission Test Results PASSED.

Channel:	914.8 MHz (RX)	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz ~18GHz		

EUT	Vibrating Pager
Operating Condition	BATTERY 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	21~22 August 2013
Operator	Duke
MODEL NO	DCX-25

#### Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	79.7796	-21.41	33.68	12.27	40.00	-27.73	QP
2	122.5251	-17.86	35.67	17.81	43.50	-25.69	QP
3	140.9218	-16.47	33.97	17.50	43.50	-26.00	QP
4	192.3246	-12.16	33.84	21.68	43.50	-21.82	QP
5	235.0701	-12.74	33.57	20.83	46.00	-25.17	QP
6	297.2946	-5.97	34.28	28.31	46.00	-17.69	QP

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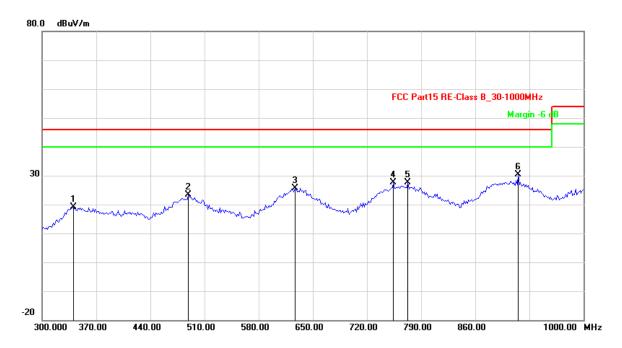
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	340.6814	-13.14	32.26	19.12	46.00	-26.88	QP
2	489.3788	-9.92	33.29	23.37	46.00	-22.63	QP
3	626.8537	-7.26	32.95	25.69	46.00	-20.31	QP
4	754.5090	-5.95	33.50	27.55	46.00	-18.45	QP
5	772.7455	-5.78	33.41	27.63	46.00	-18.37	QP
6	915.8317	-4.39	34.82	30.43	46.00	-15.57	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	1749.499	-1.27	41.95	40.68	74.00	-33.32	peak
2	1749.499	-1.27	31.13	29.86	54.00	-24.14	AVG
3	2895.792	6.01	43.52	49.53	74.00	-24.47	peak
4	2895.792	6.01	31.67	37.68	54.00	-16.32	AVG
5	3513.026	8.25	40.58	48.83	74.00	-25.17	peak
6	3513.026	8.25	27.89	36.14	54.00	-17.86	AVG
7	4174.349	10.22	38.77	48.99	74.00	-25.01	peak
8	4174.349	10.22	26.53	36.75	54.00	-17.25	AVG
9	4482.966	10.94	37.46	48.40	74.00	-25.60	peak
10	4482.966	10.94	25.35	36.29	54.00	-17.71	AVG
11	5122.244	12.55	36.52	49.07	74.00	-24.93	peak
12	5122.244	12.55	25.03	37.58	54.00	-16.42	AVG

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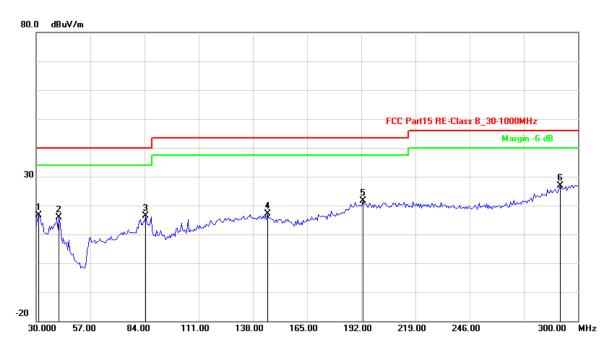




Channel:	914.8 MHz (RX)	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHz ~18GHz		

EUT	Vibrating Pager
Operating Condition	BATTERY 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	12 August 2013
Operator	Duke
MODEL NO	DCX-25

#### Below 1GHz



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	31.0821	-19.43	36.13	16.70	40.00	-23.30	QP
2	41.3627	-26.80	42.80	16.00	40.00	-24.00	QP
3	84.6492	-22.43	38.74	16.31	40.00	-23.69	QP
4	145.2505	-16.88	34.01	17.13	43.50	-26.37	QP
5	192.8657	-12.20	33.95	21.75	43.50	-21.75	QP
6	291.3426	-6.86	33.70	26.84	46.00	-19.16	QP

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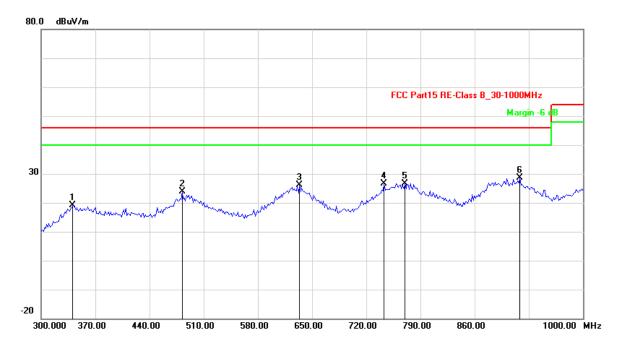
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#### **CENTRE OF TESTING SERVICE**







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	340.6814	-13.14	32.37	19.23	46.00	-26.77	QP
2	482.3647	-9.75	33.56	23.81	46.00	-22.19	QP
3	633.8677	-7.44	33.61	26.17	46.00	-19.83	QP
4	743.2866	-6.89	33.43	26.54	46.00	-19.46	QP
5	769.9399	-5.72	32.37	26.65	46.00	-19.35	QP
6	918.6373	-4.48	33.00	28.52	46.00	-17.48	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	1705.411	-1.29	41.54	40.25	74.00	-33.75	peak
2	1705.411	-1.29	31.34	30.05	54.00	-23.95	AVG
3	2609.218	4.39	43.13	47.52	74.00	-26.48	peak
4	2609.218	4.39	30.75	35.14	54.00	-18.86	AVG
5	3072.144	6.83	41.78	48.61	74.00	-25.39	peak
6	3072.144	6.83	29.25	36.08	54.00	-17.92	AVG
7	3711.423	8.88	39.75	48.63	74.00	-25.37	peak
8	3711.423	8.88	26.86	35.74	54.00	-18.26	AVG
9	4306.613	10.53	37.84	48.37	74.00	-25.63	peak
10	4306.613	10.53	24.66	35.19	54.00	-18.81	AVG
11	5012.024	12.20	37.82	50.02	74.00	-23.98	peak
12	5012.024	12.20	27.47	39.67	54.00	-14.33	AVG

Note:Level=Reading+Factor. Margin= Limit-Level

Remark: Others frequency Radiated Emission level margin all >10dB of Limit.

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Report No.: CGZ3130817-00752-EF

Product description: Vibrating Pager

Model name: DCX-25





## 8. Manufacturer/ Approval holder Declaration

The following identical model(s):		
	N/A	
Belong to the tested device:		

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