Variant FCC RF Test Report

APPLICANT	:	Doro AB
EQUIPMENT	:	Mobile Telephone
BRAND NAME	:	doro
MODEL NAME	:	Doro PhoneEasy 631
MARKETING NAME	:	Doro PhoneEasy 631
FCC ID	:	WS5DORO631
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DSS) Spread Spectrum Transmitter

This is a variant report which is only valid together with the original test report. The product was received on May 22, 2014 and testing was completed on Jun. 07, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory
2353

SPORTON INTERNATIONAL (SHENZHEN) INC.
No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR451707-01	Rev. 01	This is a variant report for Doro PhoneEasy 631. The product equality declaration could be referred to Appendix C. Based on the similarity between two models, only AC Conducted Emission and the worst case of Radiated Spurious Emission from original test report (Sporton Report Number FR451707) were verified for the differences.	Jul. 07, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 9.12 dB at 46.490 MHz
3.2	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.51 dB at 0.580 MHz
3.3	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Doro AB
Magistratsvägen 10 SE-226 43 Lund Sweden

1.2 Manufacturer

CK TELECOM LTD.
Technology Road. High-Tech Development Zone. Heyuan, Guangdong, P. R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Telephone
Brand Name	doro
Model Name	Doro PhoneEasy 631
Marketing Name	Doro PhoneEasy 631
FCC ID	WS5DORO631
EUT supports Radios application	GSM/GPRS/EGPRS(Downlink Only)/WCDMA/ Bluetooth v2.1 + EDR
HW Version	SHUTTLE-V2.0
SW Version	SHUTTLE02B-S01A_DORO631_L17EN_104_140505
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	79
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78
Antenna Type	PIFA Antenna with gain -2.00 dBi
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : π/4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398		
Test Site No.	**Sporton Site No.**		**FCC Registration No.**
	03CH01-SZ	CO01-SZ	831040

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC Public Notice DA 00-705
- ANSI C63.4-2003

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

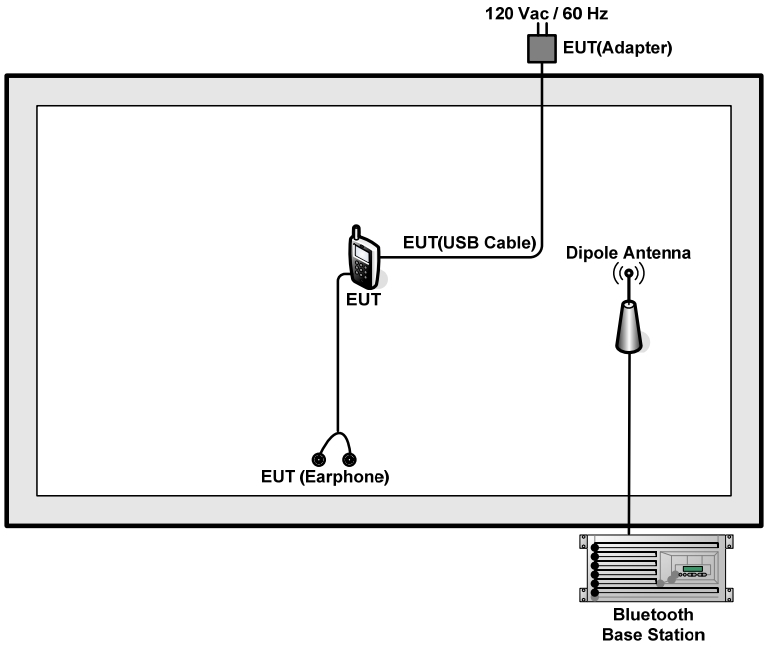
2.1 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

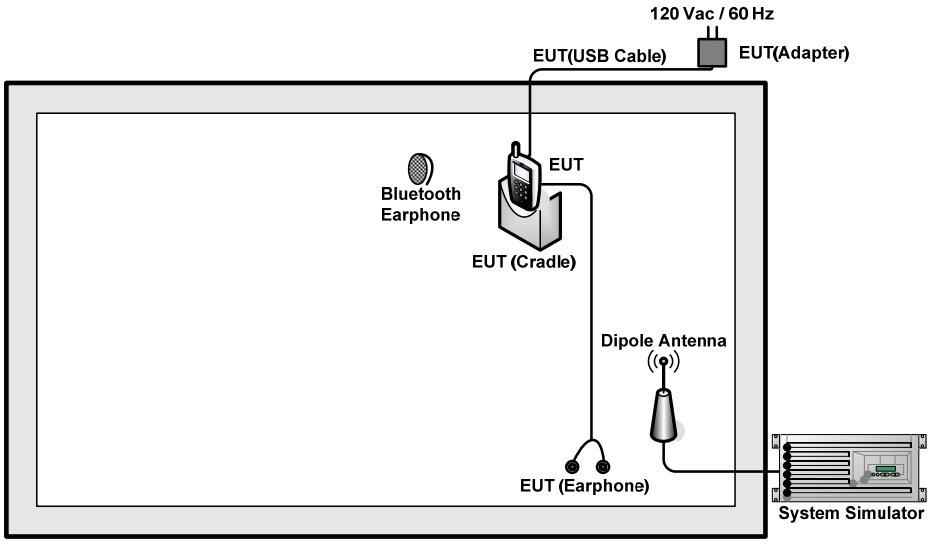
Summary table of Test Cases	
Test Item	**Data Rate / Modulation**
	Bluetooth EDR 3Mbps 8-DPSK
Radiated Test Cases	Mode 1: CH78_2480 MHz
AC Conducted Emission	Mode 1 :GSM1900 Idle + Bluetooth Idle + Earphone 1 + Battery 1 + USB Cable (Charging from Adapter 1) + Cradle
Remark: For Radiated Test Cases, The tests were performance with Adapter 3, Battery 2, Earphone 1, and USB Cable.	

2.2 Connection Diagram of Test System

<Bluetooth Tx Mode>



<AC Conducted Emission Mode>



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Base Station	R&S	CBT	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A

2.4 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

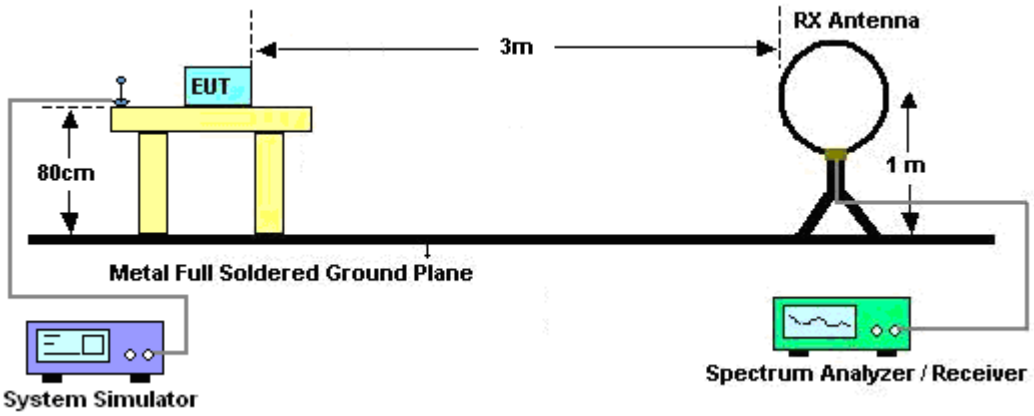
3.1.3 Test Procedures

1. The testing follows the guidelines in Spurious Radiated Emissions of FCC Public Notice DA 00-705 Measurement Guidelines.
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
   (3) For average measurement: use duty cycle correction factor method per 15.35(c).
   Duty cycle = On time/100 milliseconds
   On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$
   Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
   Average Emission Level = Peak Emission Level + 20*log(Duty cycle)
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

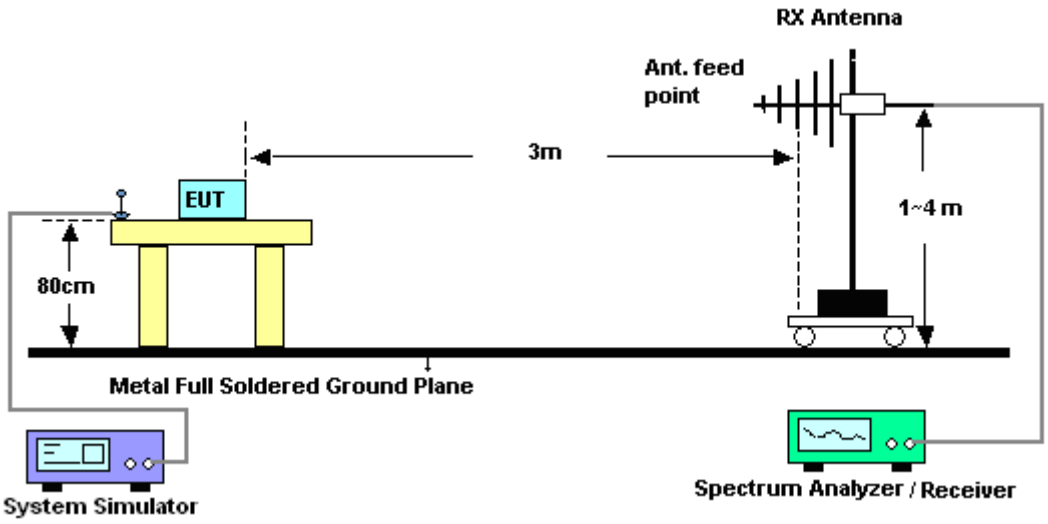
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.82dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.1.4 Test Setup

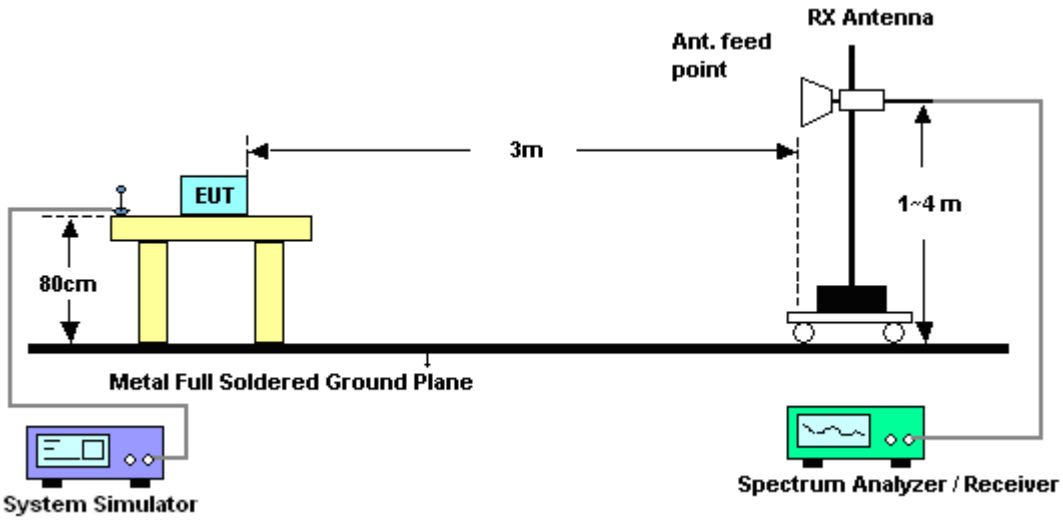
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

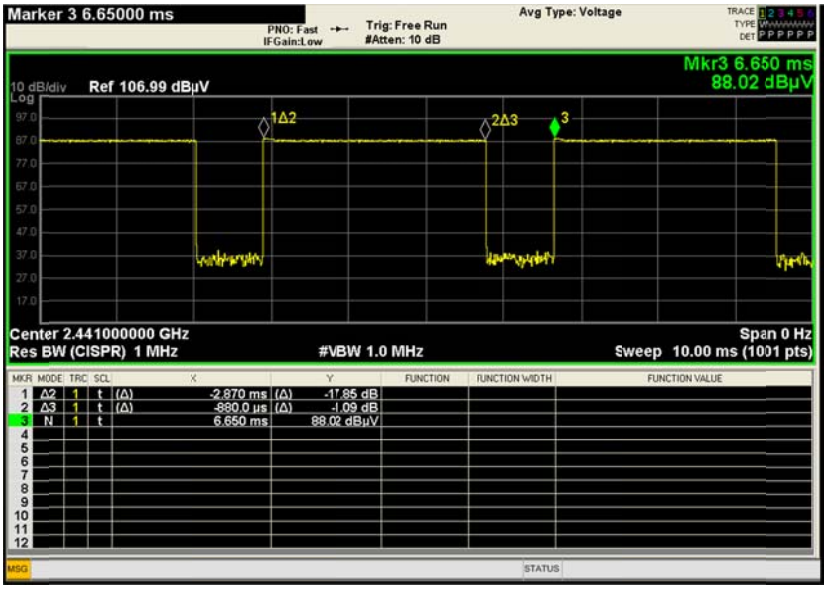


3.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

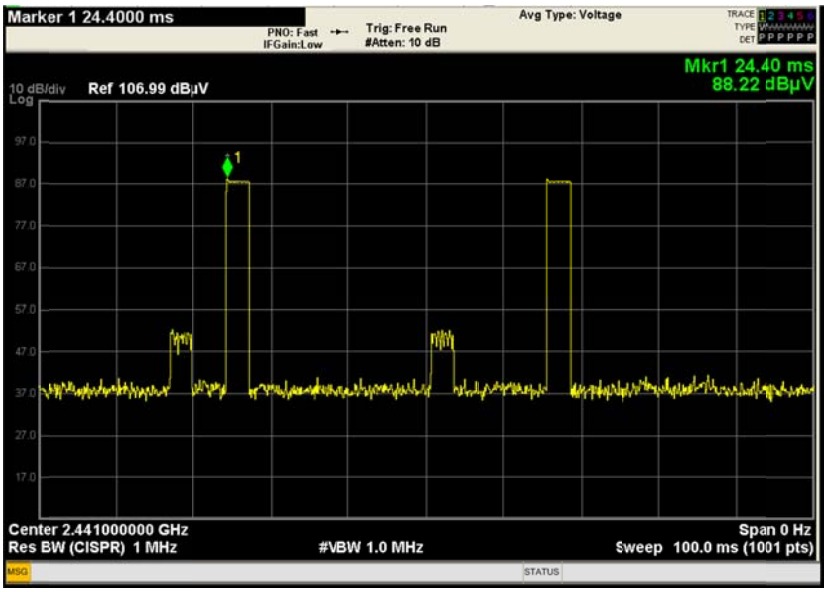
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.1.6 Duty cycle correction factor for average measurement

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.87 / 100 = 5.74 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.82 dB
3. 3DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the period to have DH5 packet completing one hopping sequence is

2.87 ms x 20 channels = 57.4 ms

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. [100ms / 57.6ms] = 2 hops

Thus, the maximum possible ON time:

2.87 ms x 2 = 5.74 ms

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

20 x log(5.74 ms/100ms) = -24.82 dB

3.1.7 Test Result of Radiated Spurious at Band Edges

Test Mode :	Mode 1	Temperature :	24~25°C
Test Channel :	78	Relative Humidity :	48~49%
		Test Engineer :	Leo Liao

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.52	50.02	-23.98	74	39.57	32.41	5.71	27.67	100	222	Peak
2483.52	25.20	-28.80	54	-	-	-	-	100	222	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.74	49.45	-24.55	74	39	32.41	5.71	27.67	190	235	Peak
2483.74	24.63	-29.37	54	-	-	-	-	190	235	Average

Note: Average Emission Level = Peak Emission Level + duty cycle correction factor(-24.82dB)

3.1.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	Mode 1	**Temperature :**	24~25°C
Test Channel :	78	**Relative Humidity :**	48~49%
Test Engineer :	Leo Liao	**Polarization :**	Horizontal
Remark :	2480 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
48.43	24.27	-15.73	40	45.48	7.8	0.92	29.93	200	0	Peak
122.15	26.61	-16.89	43.5	43.25	11.94	1.36	29.94	-	-	Peak
330.7	21	-25	46	34.63	14.2	2.1	29.93	-	-	Peak
549.92	22.83	-23.17	46	32	18.1	2.65	29.92	-	-	Peak
707.06	24.46	-21.54	46	32.42	19	2.97	29.93	-	-	Peak
858.38	26.08	-19.92	46	31.94	20.78	3.29	29.93	-	-	Peak
2480	99.3	-	-	88.85	32.41	5.71	27.67	100	222	Peak
2480	74.48	-	-	-	-	-	-	100	222	Average
4960	35.71	-38.29	74	50.36	34.12	8.49	57.26	118	289	Peak
4960	10.89	-43.11	54	-	-	-	-	118	289	Average
7440	34.48	-39.52	74	47.51	33.97	10.04	57.04	158	273	Peak
7440	9.66	-44.34	54	-	-	-	-	158	273	Average

Note: 1. Other harmonics are lower than background noise.

2. Average Emission Level = Peak Emission Level + duty cycle correction factor(-24.82)

Test Mode :	Mode 1	Temperature :	24~25°C
Test Channel :	78	Relative Humidity :	48~49%
Test Engineer :	Leo Liao	Polarization :	Vertical
Remark :	2480 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
46.49	30.88	-9.12	40	51.17	8.73	0.91	29.93	100	0	Peak
120.21	26.16	-17.34	43.5	42.85	11.9	1.35	29.94	-	-	Peak
330.7	21.87	-24.13	46	35.5	14.2	2.1	29.93	-	-	Peak
492.69	26.42	-19.58	46	36.68	17.15	2.51	29.92	-	-	Peak
717.73	25.66	-20.34	46	33.36	19.24	2.99	29.93	-	-	Peak
922.4	26.66	-19.34	46	32.05	21.16	3.39	29.94	-	-	Peak
2480	96.04	-	-	85.59	32.41	5.71	27.67	190	235	Peak
2480	71.22	-	-	-	-	-	-	190	235	Average
4960	36.15	-37.85	74	50.8	34.12	8.49	57.26	118	289	Peak
4960	11.33	-42.67	54	-	-	-	-	118	289	Average
7440	34.91	-39.09	74	47.94	33.97	10.04	57.04	158	273	Peak
7440	10.09	-43.91	54	-	-	-	-	158	273	Average

Note: 1. Other harmonics are lower than background noise.

2. Average Emission Level = Peak Emission Level + duty cycle correction factor(-24.82)

3.2 AC Conducted Emission Measurement

3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

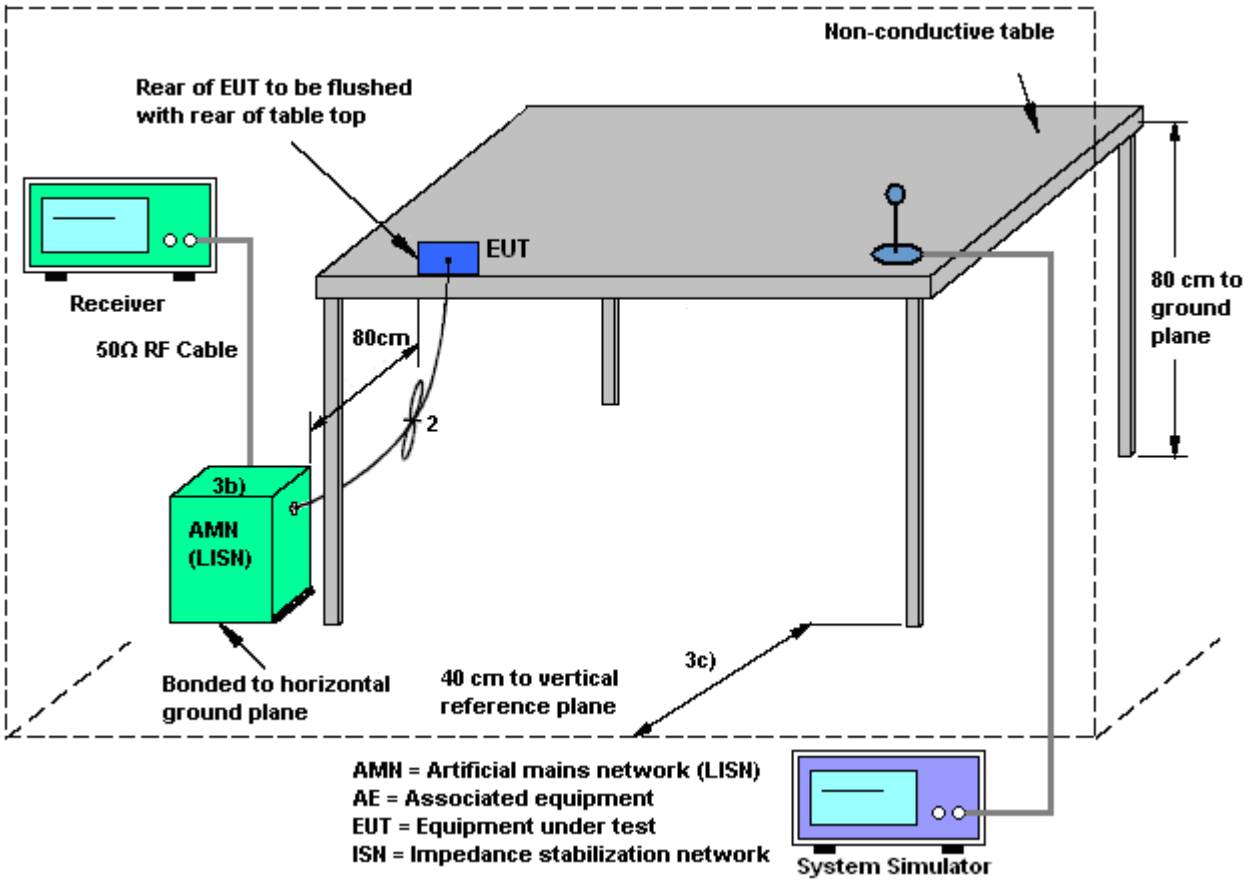
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

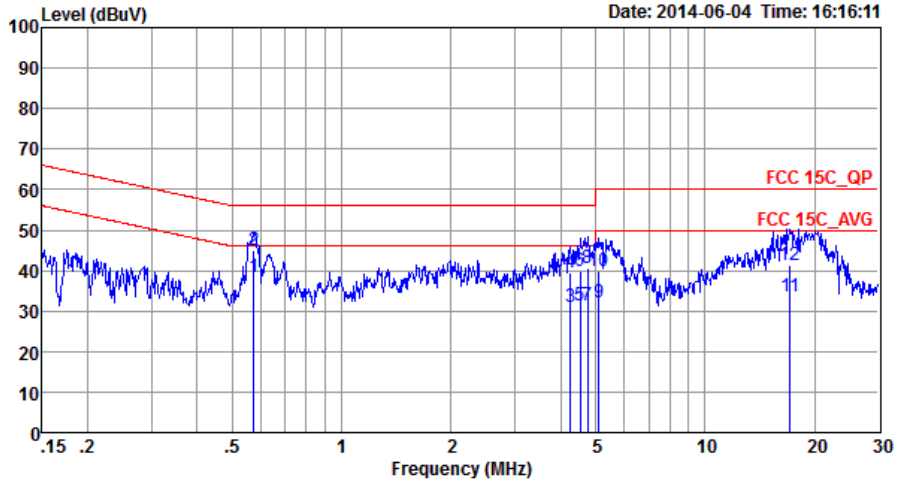
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.2.4 Test Setup



3.2.5 Test Result of AC Conducted Emission

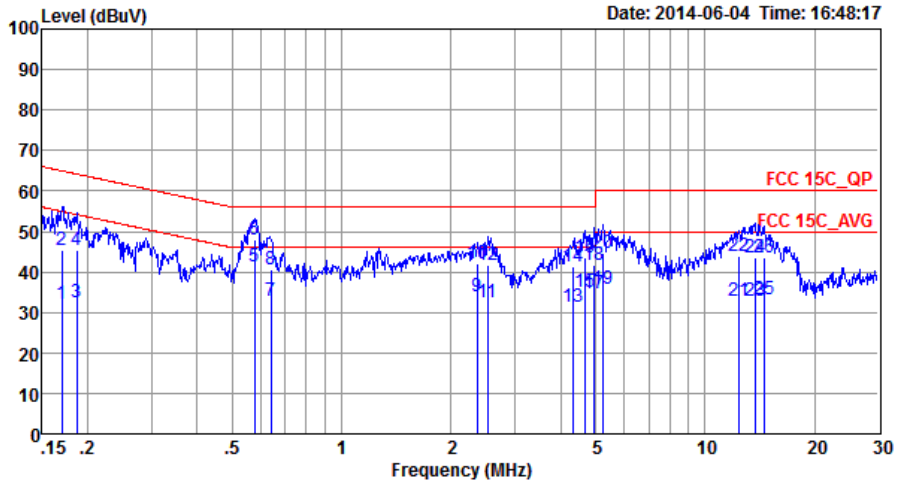
Test Mode :	Mode 1	**Temperature :**	21~22℃
Test Engineer :	Jack Tian	**Relative Humidity :**	41~42%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	GSM1900 Idle + Bluetooth Idle + Earphone 1 + Battery 1 + USB Cable (Charging from Adapter 1) + Cradle		



Site : CO01-SZ
Condition: FCC 15C_QP LISN_L_20140304 LINE
Project : (FR)451707-01
Mode : Mode 1

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.57	38.40	-7.60	46.00	28.00	0.25	10.15	Average
2		0.57	44.90	-11.10	56.00	34.50	0.25	10.15	QP
3		4.27	30.82	-15.18	46.00	20.20	0.39	10.23	Average
4		4.27	39.42	-16.58	56.00	28.80	0.39	10.23	QP
5		4.53	31.53	-14.47	46.00	20.90	0.40	10.23	Average
6		4.53	39.83	-16.17	56.00	29.20	0.40	10.23	QP
7		4.75	31.35	-14.65	46.00	20.70	0.41	10.24	Average
8		4.75	40.45	-15.55	56.00	29.80	0.41	10.24	QP
9		5.11	32.16	-17.84	50.00	21.50	0.42	10.24	Average
10		5.11	39.96	-20.04	60.00	29.30	0.42	10.24	QP
11		17.11	33.53	-16.47	50.00	21.39	1.56	10.58	Average
12		17.11	41.33	-18.67	60.00	29.19	1.56	10.58	QP

Test Mode :	Mode 1	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Idle + Earphone 1 + Battery 1 + USB Cable (Charging from Adapter 1) + Cradle		



Site : CO01-SZ
Condition: FCC 15C_QP LISN_N_20140304 NEUTRAL
Project : (FR)451707-01
Mode : Mode 1

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.17	32.16	-22.78	54.94	21.50	0.33	10.33	Average
2		0.17	45.56	-19.38	64.94	34.90	0.33	10.33	QP
3		0.19	32.53	-21.67	54.20	21.90	0.32	10.31	Average
4		0.19	45.23	-18.97	64.20	34.60	0.32	10.31	QP
5	*	0.58	41.49	-4.51	46.00	31.00	0.34	10.15	Average
6		0.58	48.09	-7.91	56.00	37.60	0.34	10.15	QP
7		0.64	32.94	-13.06	46.00	22.50	0.29	10.15	Average
8		0.64	40.64	-15.36	56.00	30.20	0.29	10.15	QP
9		2.36	34.09	-11.91	46.00	23.50	0.39	10.20	Average
10		2.36	41.89	-14.11	56.00	31.30	0.39	10.20	QP
11		2.53	32.30	-13.70	46.00	21.70	0.40	10.20	Average
12		2.53	41.60	-14.40	56.00	31.00	0.40	10.20	QP
13		4.34	31.50	-14.50	46.00	20.80	0.47	10.23	Average
14		4.34	41.30	-14.70	56.00	30.60	0.47	10.23	QP
15		4.70	35.02	-10.98	46.00	24.30	0.48	10.24	Average
16		4.70	43.62	-12.38	56.00	32.90	0.48	10.24	QP
17		4.95	34.73	-11.27	46.00	24.00	0.49	10.24	Average
18		4.95	41.83	-14.17	56.00	31.10	0.49	10.24	QP
19		5.22	35.63	-14.37	50.00	24.91	0.48	10.24	Average
20		5.22	44.53	-15.47	60.00	33.81	0.48	10.24	QP
21		12.38	33.02	-16.98	50.00	21.40	1.19	10.43	Average
22		12.38	44.02	-15.98	60.00	32.40	1.19	10.43	QP
23		13.70	32.79	-17.21	50.00	20.91	1.40	10.48	Average
24		13.70	43.39	-16.61	60.00	31.51	1.40	10.48	QP
25		14.52	33.16	-16.84	50.00	21.10	1.55	10.51	Average
26		14.52	43.56	-16.44	60.00	31.50	1.55	10.51	QP

3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jun. 07, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Jun. 07, 2014	May 25, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Jun. 07, 2014	May 08, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Jun. 07, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jun. 07, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jan. 27, 2014	Jun. 07, 2014	Jan. 26, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jun. 07, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Jun. 07, 2014	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001985	100Vac~250Vac	Mar. 25, 2014	Jun. 07, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jun. 07, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jun. 07, 2014	NCR	Radiation (03CH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jun. 04, 2014	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Jun. 04, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Jun. 04, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Dec. 17, 2013	Jun. 04, 2014	Dec. 16, 2014	Conduction (CO01-SZ)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.31**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.90**

Appendix A. Photographs of EUT

Please refer to Sporton report number EP451707-01 which is issued separately.

Appendix C. Product Equality Declaration

CK TELECOM LTD.

Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China.
Tel: +86-755-26739633; Fax: +86-755-26739500

Date: July 2, 2014

Product Equality Declaration

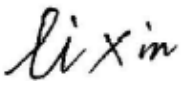
We, **CK TELECOM LTD**, declare on our sole responsibility for the product of Doro PhoneEasy 631 (Band1&Band8)as below:

The difference between Doro PhoneEasy 631(Band1&Band8) and Doro PhoneEasy 632

- S.W. changed from SHUTTLE02A-S01A_DORO632_L17EN_118_140616 to SHUTTLE02B-S01A_DORO631_L17EN_104_140505
- Delete GPS, G/M module, camera flash, LED matrix on A cabinet,
- Color change to Graphite/White

Should you have any questions or comments regarding this matter, please have my best attention.

Sincerely yours,



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