

Report No.: FR3N1236A

Partial FCC RF Test Report

APPLICANT : Compal Electronics, Inc.

EQUIPMENT: Smart phone

BRAND NAME : SDBG MODEL NAME : i4901

FCC ID : GKR-SD4901

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION: (DSS) Spread Spectrum Transmitter

This is a partial report which is included the conducted power and radiation measurement. The product was received on Nov. 12, 2013 and testing was completed on Jan. 30, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: GKR-SD4901 Page Number : 1 of 21 Report Issued Date : Jun. 04, 2014



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR3N1236A	Rev. 01	Initial issue of report	Jun. 04, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 12.32 dB at 2483.500 MHz
3.2	15.203 & 15.247(b)	RSS-210 A8.4	Antenna Requirement	N/A	Pass	-

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General Description

Applicant 1.1

Compal Electronics, Inc.

No.581, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan (R.O.C.)

1.2 Manufacturer

Compal Electronics, Inc.

No.581, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan (R.O.C.)

1.3 **Feature of Equipment Under Test**

	Product Feature					
Equipment	Smart phone					
Brand Name	SDBG					
Model Name	i4901					
FCC ID	GKR-SD4901					
Sample 1	EUT with 512M Memory					
Sample 2	EUT with 1G Memory					
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA WLAN 11b/g/n (HT20/HT40) Bluetooth v3.0 + EDR/ v4.0 - LE					
HW Version	0D					
SW Version	LF11.0.022.00					
EUT Stage	Identical Prototype					

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

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1.4 Product Specification of Equipment Under Test

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				
Maximum Output Power to Antenna	Bluetooth BR(1Mbps) : 5.82 dBm (0.0038 W) Bluetooth EDR (2Mbps) : 5.53 dBm (0.0036 W) Bluetooth EDR (3Mbps) : 5.78 dBm (0.0038 W)				
Antenna Type	Loop Antenna Type with gain 1.07 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 Site

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Test Site Location	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
	TEL: +886-3-3273456 / FAX: +886-3-3284978				
Test Site No.	Sporton Site No. FCC/IC Registrat				
rest site No.	TH02-HY	03CH06-HY	722060/4086B-1		

Note: The test site complies with ANSI C63.4 2003 requirement.

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1.7 Applied 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: All test items were verified and recorded according to the standards and without any deviation during the test.

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2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Preliminary tests were performed in different data rates and recorded the RF output power in the following table:

		Bluetooth RF Output Power						
Channal			Data Rate / Modulation					
Channel	Frequency	GFSK	π/4-DQPSK	8-DPSK				
		1Mbps	2Mbps	3Mbps				
Ch00	2402MHz	5.59 dBm	5.21 dBm	5.57 dBm				
Ch39	2441MHz	5.81 dBm	5.52 dBm	5.76 dBm				
Ch78	2480MHz	<mark>5.82</mark> dBm	<mark>5.53</mark> dBm	<mark>5.78</mark> dBm				

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels, and different data rates were conducted to determine the final configuration (Z plane as worst plane) from all possible combinations, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.

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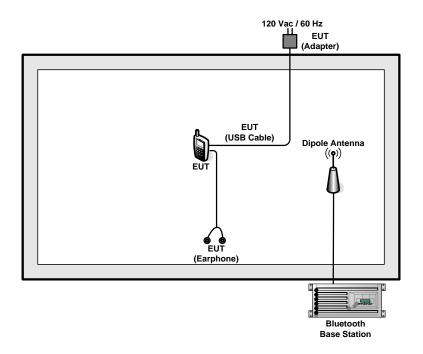


2.2 Test Mode

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							
Radiated	Bluetooth BR 1Mbps GFSK							
Test Cases	Mode 1: CH78_2480 MHz							
Remark: The	Remark: The test was performed with sample 1.							

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Iter	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Base Station	R&S	CBT32	N/A	N/A	Unshielded, 1.8 m

2.5 EUT Operation Test Setup

For Bluetooth test items, an engineering test program (SW: LF11.0.019.00) was provided and enabled to make EUT contact with Bluetooth base station for continuous transmitting and receiving signals.

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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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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.

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3.1.3 Test Procedures

- 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 = N₁*L₁+N₂*L₂+...+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 (24.85dB) 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.

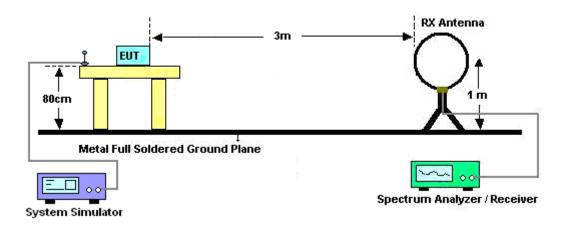
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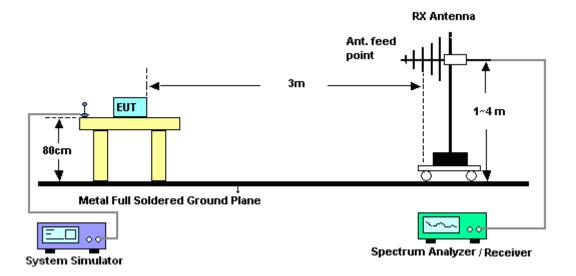
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3.1.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

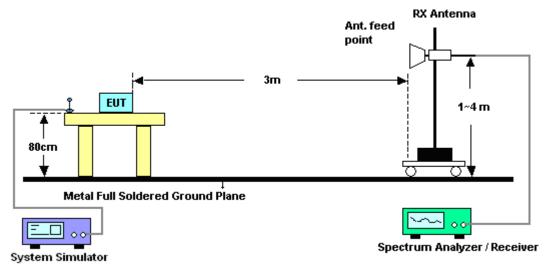


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For radiated emissions above 1GHz



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.

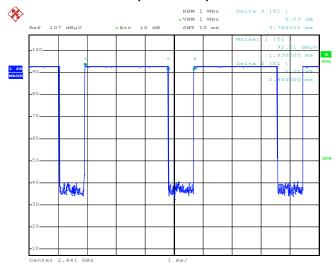
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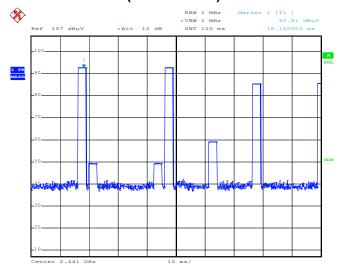
3.1.6 Duty cycle correction factor for average measurement

DH5 on time (One Pulse) Plot on Channel 39



Date: 30.JAN.2014 16:34:10

DH5 on time (Count Pulses) Plot on Channel 39



Date: 30.JAN.2014 16:34:36

Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.86 / 100 = 5.72 %
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.85 dB
- 3. DH5 has the highest duty cycle worst case and is reported.

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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

2.86 ms x 20 channels = 57.2 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:

2.86 ms x 2 = 5.72 ms

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

 $20 \times log(5.72 \text{ ms}/100\text{ms}) = -24.85 \text{ dB}$

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3.1.7 Test Result of Radiated Spurious at Band Edges

Test Mode :	1Mbps	Temperature :	22~24°C	
Test Channel :	78	Relative Humidity :	47~49%	
		Test Engineer :	Marlboro Hsu	

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Remark									
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.5	61.68	-12.32	74	57.4	31.99	6.59	34.3	107	311	Peak
2483.5	36.83	-17.17	54	-	-	-	-	-	-	Average

	ANTENNA POLARITY : VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.5	56.95	-17.05	74	52.67	31.99	6.59	34.3	100	265	Peak
2483.5	32.1	-21.9	54	-	-	-	-	-	-	Average

Note: Average Emission Level = Peak Emission Level + duty cycle correction factor(-24.85dB)

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

Test Mode :	1Mbps	Temperature :	22~24°C		
Test Channel :	78	Relative Humidity :	47~49%		
Test Engineer :	Marlboro Hsu	Polarization :	Horizontal		
Remark :	2480 MHz is fundamental signal which can be ignored.				

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
42.96	26.51	-13.49	40	46.63	10.92	0.75	31.79	100	64	Peak
110.46	22.08	-21.42	43.5	40.5	12.17	1.16	31.75	-	-	Peak
177.15	14.62	-28.88	43.5	35.42	9.45	1.5	31.75	-	-	Peak
468	20.44	-25.56	46	32.65	17.36	2.32	31.89	-	-	Peak
613.6	21.52	-24.48	46	31.25	19.54	2.78	32.05	-	-	Peak
867	24.09	-21.91	46	31.61	20.87	3.28	31.67	-	-	Peak
2480	100.75	-	-	96.47	31.99	6.59	34.3	107	311	Peak
2480	75.9	-	-	-	-	-	-	-	-	Average
4959	46.03	-27.97	74	57.34	34.32	10.21	55.84	100	0	Peak
4959	21.18	-32.82	54	-	-	-	-	-	-	Average
7440	48.93	-25.07	74	58.5	35.53	10.9	56	100	0	Peak
7440	24.08	-29.92	54	-	-	-	-	-	-	Average

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

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^{2.} Average Emission Level = Peak Emission Level + duty cycle correction factor(-24.85)



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Test Mode :	1Mbps	Temperature :	22~24°C		
Test Channel :	78	Relative Humidity :	47~49%		
Test Engineer :	Marlboro Hsu	Vertical			
Remark :	2480 MHz is fundamental signal which can be ignored.				

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30.54	24.84	-15.16	40	38.09	17.9	0.65	31.8	100	22	Peak
62.4	23.8	-16.2	40	48.28	6.4	0.89	31.77	-	-	Peak
105.06	15.73	-27.77	43.5	34.76	11.6	1.12	31.75	-	-	Peak
594	21.57	-24.43	46	31.54	19.34	2.74	32.05	-	-	Peak
706	23.28	-22.72	46	32.93	19.46	2.91	32.02	-	-	Peak
812.4	23.62	-22.38	46	32.16	20.26	3.1	31.9	-	-	Peak
2480	95.97	-	-	91.69	31.99	6.59	34.3	100	265	Peak
2480	71.12	-	-	-	-	-	-	-	-	Average
4959	46.79	-27.21	74	58.1	34.32	10.21	55.84	100	0	Peak
4959	21.94	-32.06	54	-	-	-	-	-	-	Average
7440	47.76	-26.24	74	57.33	35.53	10.9	56	100	0	Peak
7440	22.91	-31.09	54	-	-	-	-	-	-	Average

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

2. Average Emission Level = Peak Emission Level + duty cycle correction factor(-24.85)

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3.2 Antenna Requirements

3.2.1 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.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 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.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date Due Date		Remark
Power Meter	Agilent	E4416A	GB41292344	300MHz~40GHz	Feb. 05, 2013	Jan. 20, 2014	Feb. 04, 2014	Conducted (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	300MHz~40GHz	Feb. 05, 2013	Jan. 20, 2014	Feb. 04, 2014	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101067	9kHz ~ 30GHz	Nov. 20, 2013	Jan. 30, 2014	Nov. 19, 2014	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9kHz ~ 26.5GHz	Dec. 02, 2013	Jan. 30, 2014	Dec. 01, 2014	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/0003	20MHz ~ 1000MHz	May 06, 2013	Jan. 30, 2014	May 05, 2014	Radiation (03CH06-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9kHz ~ 30MHz	Jul. 03, 2012	Jan. 30, 2014	Jul. 02, 2014	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6112B	2885	30MHz ~ 2GHz	Oct. 10, 2013	Jan. 30, 2014	Oct. 09, 2014	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 02, 2013	Jan. 30, 2014	Aug. 01, 2014	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9kHz ~ 1GHz	Apr. 12, 2013	Jan. 30, 2014	Apr. 11, 2014	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 18, 2013	Jan. 30, 2014	Jul. 17, 2014	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Oct. 03, 2013	Jan. 30, 2014	Oct. 02, 2014	Radiation (03CH06-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 12, 2013	Jan. 30, 2014	Apr. 11, 2014	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	Jan. 30, 2014	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Jan. 30, 2014	N/A	Radiation (03CH06-HY)

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5 Uncertainty of Evaluation

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

	<u> </u>
Measuring Uncertainty for a Level of	4.50
Confidence of 95% (U = 2Uc(y))	4.50

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