

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Dash Jr. 4.0

FCC ID : YHLBLUDASHJR40

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 28, 2013 and testing was completed on Dec. 11, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Jan. 09, 2014

Testing Laboratory
2353

Report No.: FG3N2801



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3N2801	Rev. 01	Initial issue of report	Jan. 09, 2014



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(b)	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 6.26 dB at 1672.000 MHz
3.8	§2.1055 §22.355 §24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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1 General Description

1.1 Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2 Manufacturer

Fortune Ship Technology (HK) Limited

Rm.402, B District, TCL King Electronics Company, No.33th.NanhaiRoad, Nanshan District, Shenzhen, P.R.C

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1.3 Feature of Equipment Under Test

Product Feature					
Equipment	Mobile Phone				
Brand Name	BLU				
Model Name	Dash Jr. 4.0				
FCC ID	YHLBLUDASHJR40				
EUT supports Radios application	GSM/GPRS/WLAN2.4GHz 802.11b/g/n HT20				
Lot supports readios application	Bluetooth v2.1 + EDR				
HW Version	7631-MB-V0.2				
SW Version	BLU-D140-V01-GENERIC				
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 of Equipment Under Test

Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz				
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz				
Maximum Output Power to Antenna	GSM850 : 32.80 dBm GSM1900 : 30.19 dBm				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK				

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1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.62	0.04 ppm	248KGXW
Part 24	GSM1900 GSM	GMSK	0.62	0.02 ppm	246KGXW

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1.7 Testing Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan				
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.				
	TEL: +86-755-3320-2398				
Took Cita No.	Sporton Site No. FCC Registration No.				
Test Site No.	TH01-SZ	03CH01-SZ	831040		

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Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
	No. 101, Complex Building C, Guanlong Village, Xili Town,		
Toot Site Leastion	Nanshan District, Shenzhen, Guangdong, P.R.C.		
Test Site Location	TEL:+86-755-8637-9589		
	FAX: +86-755-8637-9595		
Test Site No.	Sporton Site No.		
Test site NO.	OTA01-SZ		

1.8 Applied Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

Remark:

- 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.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was rotated on three test planes to find out the worst emission(X plane for 22H, Y Plane for 24E).

Frequency range investigated for radiated emission is as follows:

- 30 MHz to 9000 MHz for GSM850.
- 2. 30 MHz to 19000 MHz for GSM1900.

Test Modes						
Band Radiated TCs Conducted TCs						
GSM 850	■ GSM Link	■ GSM Link				
GSM 1900	■ GSM Link	■ GSM Link				

Note: The maximum power levels are GSM mode for GMSK link, only these modes were used for all tests.

The conducted power tables are as follows:

For SIM1

Conducted Power (*Unit: dBm)							
Band		GSM850		GSM1900			
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	<mark>32.80</mark>	32.72	32.74	30.14	<mark>30.19</mark>	30.08	
GPRS class 8	32.65	32.54	32.57	30.05	30.10	29.99	
GPRS class 10	30.23	30.05	29.93	27.34	27.40	27.34	
GPRS class 11	29.14	28.97	28.85	25.88	25.93	25.87	
GPRS class 12	27.13	26.95	26.79	23.86	23.93	23.86	

For SIM2

Conducted Power (*Unit: dBm)							
Band		GSM850		GSM1900			
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	<mark>32.79</mark>	32.70	32.73	30.10	<mark>30.13</mark>	30.05	
GPRS class 8	32.63	32.55	32.55	30.00	30.05	29.96	
GPRS class 10	30.21	30.03	29.91	27.32	27.37	27.31	
GPRS class 11	29.12	28.94	28.83	25.85	25.89	25.84	
GPRS class 12	27.12	26.92	26.79	23.82	23.88	23.82	

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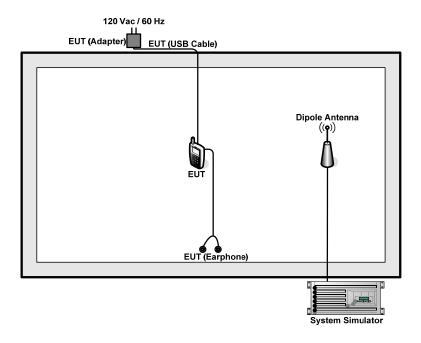
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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7 dB and 10dB attenuator.

Offset
$$(dB) = RF$$
 cable $loss(dB) + attenuator$ factor (dB) .
= 7 + 10 = 17 (dB)



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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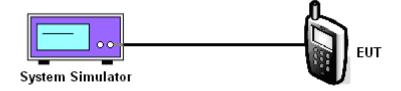
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band					
Modes	GSM850 (GSM)				
Channel	128 (Low) 189 (Mid) 251 (High)				
Frequency (MHz)	824.2	836.4	848.8		
Conducted Power (dBm)	32.80	32.72	32.74		
Conducted Power (Watts)	1.91	1.87	1.88		

PCS Band					
Modes		GSM1900 (GSM)			
Channel	512 (Low) 661 (Mid) 810 (High)				
Frequency (MHz)	1850.2 1880 1909.8				
Conducted Power (dBm)	30.14	30.19	30.08		
Conducted Power (Watts)	1.03	1.04	1.02		

Note: Maximum burst average power for GSM.

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3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

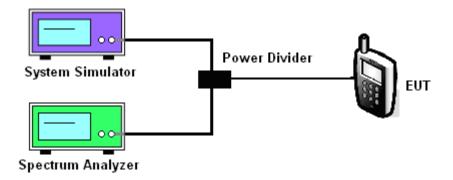
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/GPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
- 3. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

PCS Band		
Modes	GSM1900 (GSM)	

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Channel	512 (Low)	661 (Mid)	810 (High)	
Frequency (MHz)	1850.2	1880	1909.8	
Peak-to-Average Ratio (dB)	0.29	0.28	0.33	

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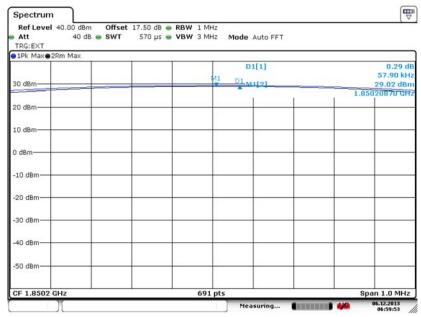


3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band: GSM 1900 Test Mode:	GSM Link (GMSK)
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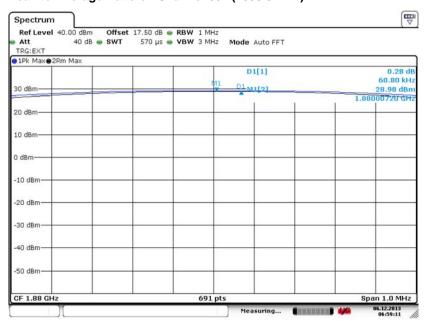
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 6.DEC.2013 06:59:53

Peak-to-Average Ratio on Channel 661 (1880.0 MHz)

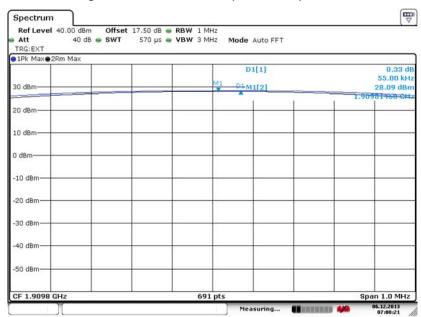


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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 6.DEC.2013 07:00:21

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3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

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3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
- 2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 6. Taking the record of maximum ERP/EIRP.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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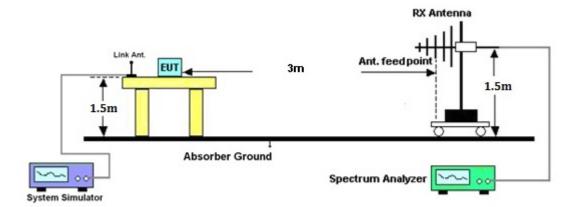
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3.3.4 Test Setup



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3.3.5 Test Result of ERP

		0011050/0	OM) Dedicted	Dawer FDD			
	GSM850 (GSM) Radiated Power ERP						
		Hoi	rizontal Polariza	tion			
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)	
824.20	-34.93	-48.12	0.00	-1.08	12.11	0.02	
836.40	-34.62	-48.28	0.00	-0.93	12.73	0.02	
848.80	-34.87	-48.35	0.00	-0.76	12.72	0.02	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
824.20	-20.31	-47.97	0.00	-1.08	26.58	0.45	
836.40	-19.87	-48.01	0.00	-0.93	27.21	0.53	
848.80	-19.40	-48.05	0.00	-0.76	27.89	0.62	

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3.3.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP						
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.03	-51.88	0.00	1.96	27.81	0.60
1880.00	-27.27	-52.99	0.00	2.00	27.72	0.59
1909.80	-29.03	-54.28	0.00	1.98	27.23	0.53
		Ve	ertical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.18	-52.13	0.00	1.96	27.91	0.62
1880.00	-27.55	-53.17	0.00	2.00	27.62	0.58
1909.80	-28.97	-54.13	0.00	1.98	27.14	0.52

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

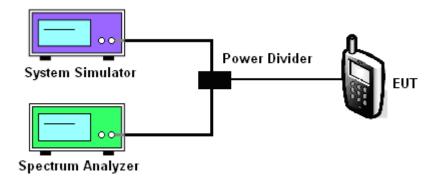
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
- 4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.4.4 Test Setup



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3.4.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes	GSM850 (GSM)					
Channel	128 (Low)	128 (Low) 189 (Mid) 251 (High)				
Frequency (MHz)	824.2 836.4 848.8					
99% OBW (kHz)	244.00	248.00	246.00			
26dB BW (kHz)	314.00	310.00	314.00			

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PCS Band						
Modes		GSM1900 (GSM)				
Channel	512 (Low)	512 (Low) 661 (Mid) 810 (High)				
Frequency (MHz)	1850.2 1880 1909.8					
99% OBW (kHz)	244.00	246.00	246.00			
26dB BW (kHz)	306.00	310.00	308.00			

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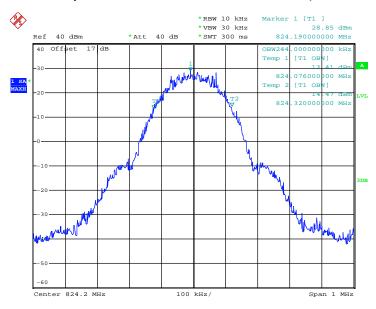
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3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

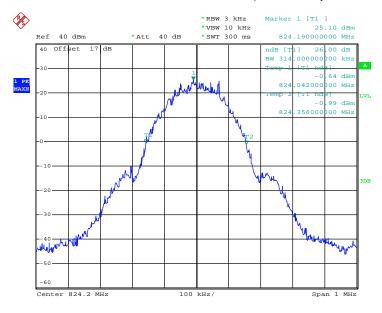
Band :	GSM 850	Test Mode :	GSM Link (GMSK)
Bana :	GSIVI 850	lest Mode:	GSIM LINK (GIMSK)

99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 8.DEC.2013 16:23:51

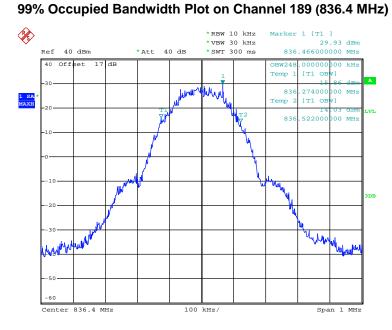
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 8.DEC.2013 16:00:13

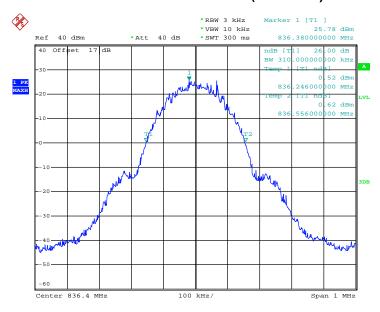
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Date: 8.DEC.2013 16:22:05

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



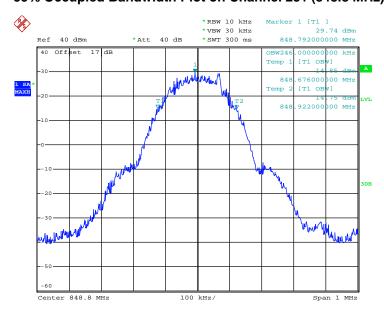
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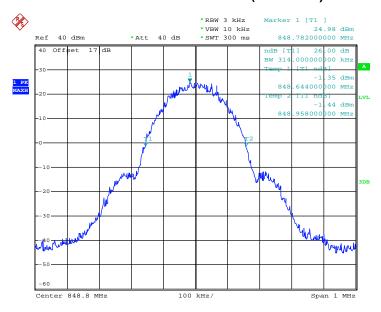


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 8.DEC.2013 16:19:58

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



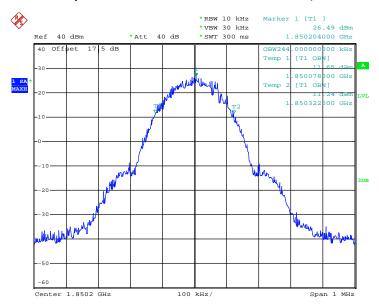
Date: 8.DEC.2013 16:01:40

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Report Issued Date : Jan. 09, 2014

Report No.: FG3N2801

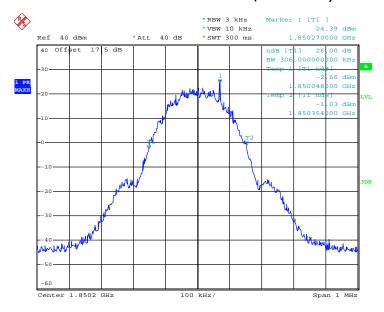
Band: GSM 1900 Test Mode: GSM Link (GMSK)

99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 8.DEC.2013 16:13:08

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



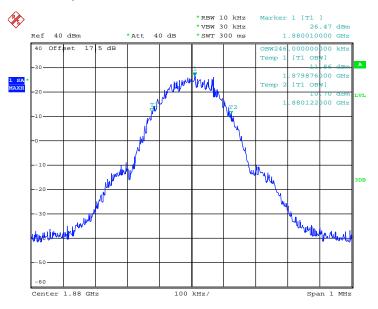
Date: 8.DEC.2013 16:10:39

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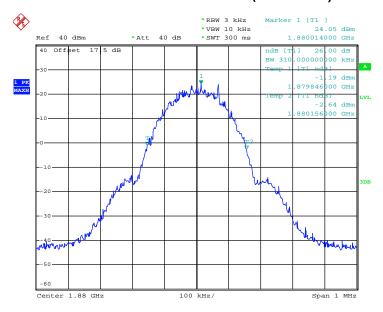
Report No.: FG3N2801

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 8.DEC.2013 16:15:03

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



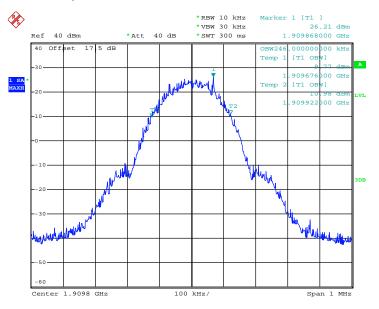
Date: 8.DEC.2013 16:07:50

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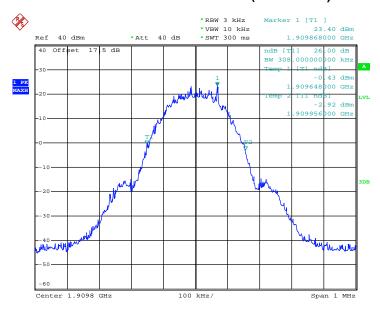
Report No.: FG3N2801

99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 8.DEC.2013 16:16:31

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 8.DEC.2013 16:05:02

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3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

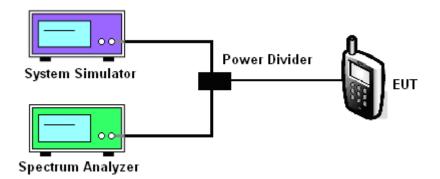
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
- 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 5. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.4 Test Setup



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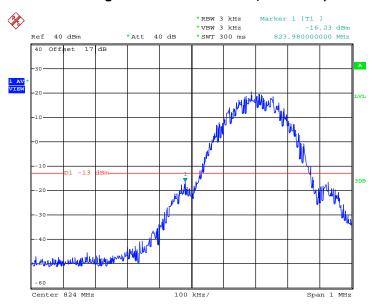
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.03dBm	Measurement Value :	-16.23dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 8.DEC.2013 16:28:09

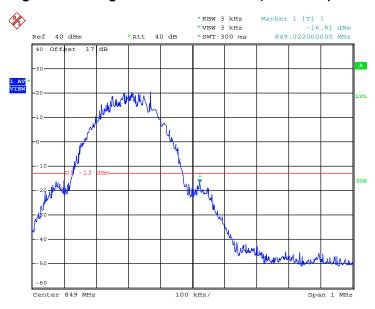
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

For example, -16.23dBm + 0.20dB = -16.03dBm

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Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.61dBm	Measurement Value :	-16.81dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 8.DEC.2013 16:29:55

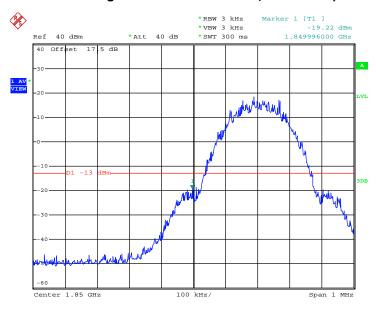
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-19.08dBm	Measurement Value :	-19.22dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 8.DEC.2013 16:32:40

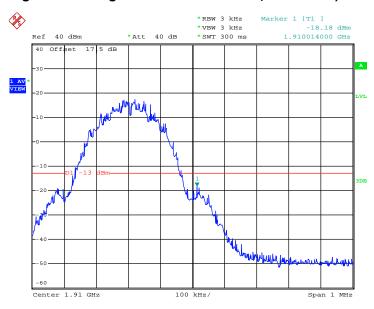
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-18.04dBm	Measurement Value :	-18.18dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 8.DEC.2013 16:35:47

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

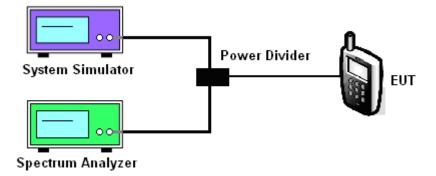
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm

3.6.4 Test Setup



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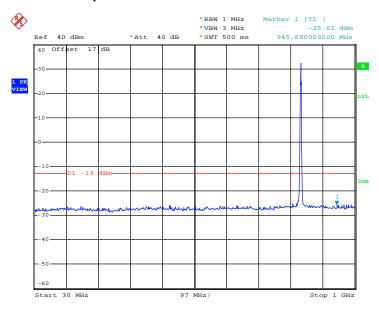
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

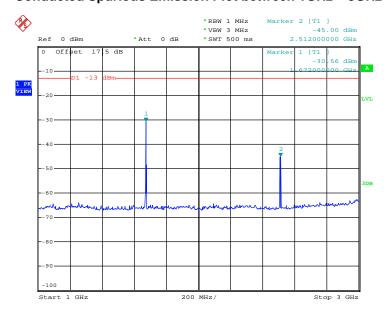
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 8.DEC.2013 17:25:13

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

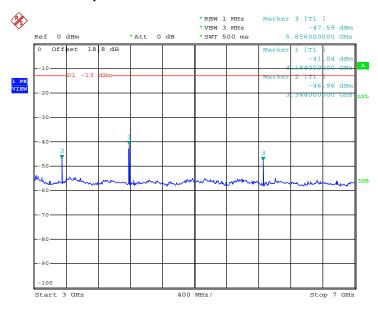


Date: 8.DEC.2013 17:16:20

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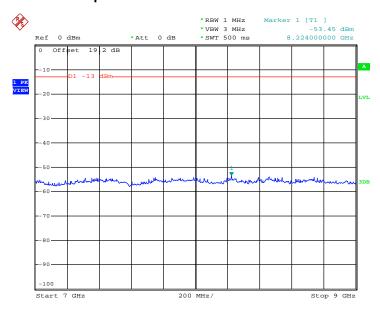






Date: 8.DEC.2013 17:18:00

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 8.DEC.2013 17:19:24

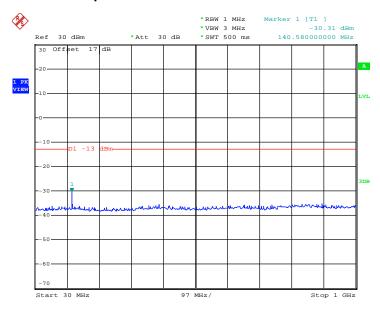
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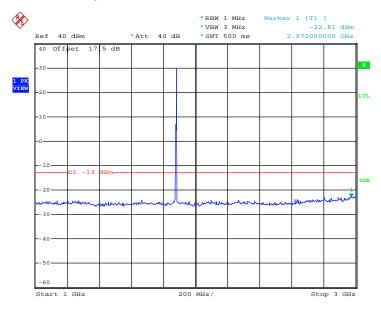
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 8.DEC.2013 16:52:25

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



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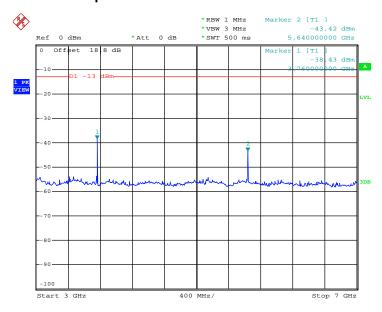
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Date: 8.DEC.2013 16:55:55

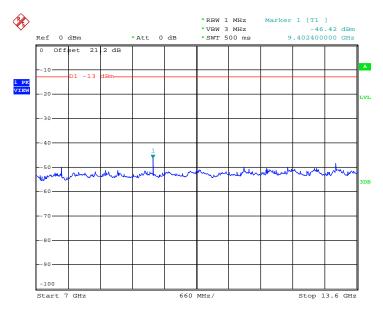


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 8.DEC.2013 16:59:36

Conducted Emission Plot between 7GHz ~ 13.6GHz

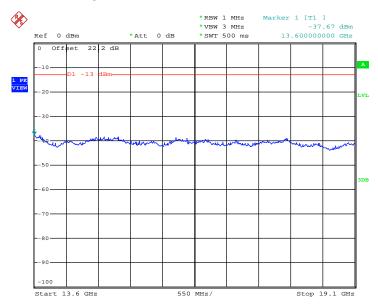


Date: 8.DEC.2013 17:01:18

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 8.DEC.2013 17:03:28

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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- 12. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 13. ERP (dBm) = EIRP 2.15

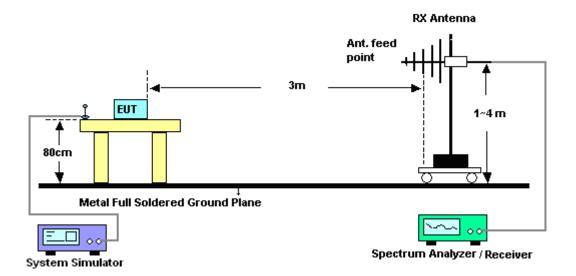
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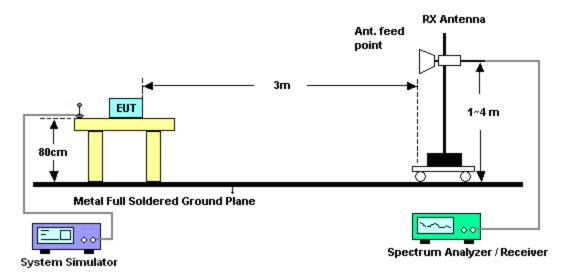


3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

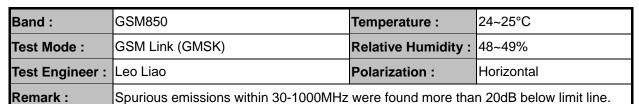


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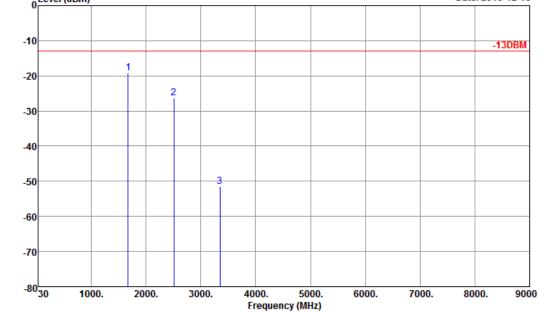


3.7.5 Test Result of Field Strength of Spurious Radiated





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: 03CH01-SZ Site

: -13DBM HF_EIRP_H_130101 HORIZONTAL Condition

Project : (FG) 3N2801

Plane

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-19.26	-13	-6.26	-35.92	-22.23	0.88	6.00	Н	Pass
2510	-26.40	-13	-13.40	-51.91	-29.01	1.08	5.84	Н	Pass
3346	-51.39	-13	-38.39	-61.99	-55.76	1.14	7.66	Н	Pass

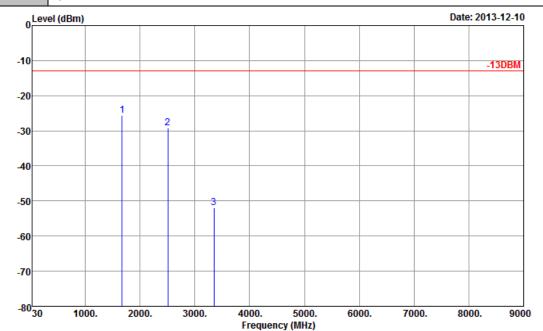
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Band :	GSM850	Temperature :	24~25°C		
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%		
Test Engineer :	Leo Liao	Polarization :	Vertical		
Domark :	Enurious emissions within 20 1000MHz were found more than 20dP helow limit line				

Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



: 03CH01-SZ Site

: -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3N2801 Condition

Project

Plane : X

ŀ	Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
				Limit	Reading	Power	loss	Gain		
	(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
	1672	-25.52	-13	-12.52	-39.82	-28.49	0.88	6.00	V	Pass
	2510	-29.29	-13	-16.29	-52.29	-31.90	1.08	5.84	V	Pass
	3346	-51.83	-13	-38.83	-63.66	-56.20	1.14	7.66	V	Pass

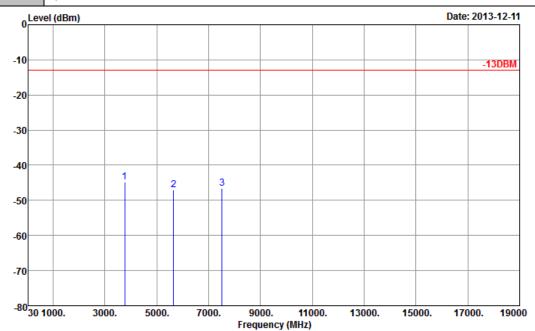
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Band :	GSM1900	Temperature :	24~25°C		
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%		
Test Engineer :	Leo Liao	Polarization :	Horizontal		
Pomark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line				

Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 3N2801 Condition

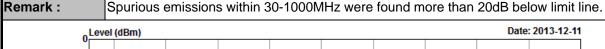
Project

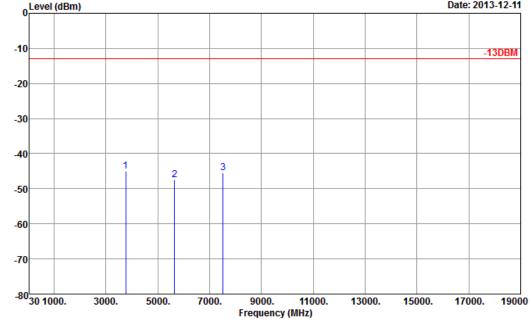
Plane : **Y**

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.71	-13	-31.71	-59.80	-51.45	1.28	8.02	Н	Pass
5640	-47.01	-13	-34.01	-65.00	-55.43	1.58	10.00	Н	Pass
7520	-46.47	-13	-33.47	-68.41	-56.79	1.78	12.10	Н	Pass

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Band :	GSM1900	Temperature :	24~25°C		
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%		
Test Engineer :	Leo Liao	Polarization :	Vertical		
D	On the applications of the CO ACCOMM. The state of the CO ACCOMM.				





Site : 03CH01-SZ

: -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 3N2801 Condition

Project

Plane : Y

FCC ID: YHLBLUDASHJR40

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.92	-13	-31.92	-61.05	-51.66	1.28	8.02	V	Pass
5640	-47.38	-13	-34.38	-64.46	-55.80	1.58	10	V	Pass
7520	-45.55	-13	-32.55	-67.8	-55.87	1.78	12.1	V	Pass

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3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.8.2 Measuring Instruments

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

3.8.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.



3.8.5 Test Setup



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3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm):	2.5	Frequency:	836.4 MHz

	GSM				
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result		
-30	-33	-0.04			
-20	-34	-0.04			
-10	-35	-0.04			
0	-32	-0.04			
10	-34	-0.04	PASS		
20	-34	-0.04			
30	-31	-0.04			
40	-32	-0.04			
50	-29	-0.03			

Band :	GSM 1900	Channel:	661
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	GS	6M	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-32	-0.02	
-20	-30	-0.02	
-10	-32	-0.02	
0	-33	-0.02	
10	-31	-0.02	PASS
20	-33	-0.02	
30	-31	-0.02	
40	-35	-0.02	
50	-32	-0.02	

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3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	3.8	-34	-0.04		DACC
		BEP	-32	-0.04		
		4.2	-35	-0.04	0.5	
GSM 1900 CH661	GSM	3.8	-33	-0.02	2.5	PASS
		BEP	-31	-0.02		
		4.2	-34	-0.02		

Note:

- 1. Normal Voltage = 3.8V.
- 2. Battery End Point (BEP) = 3.6 V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	Dec. 06, 2013~ Dec. 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV30	100845	9kHz~30GHz; Max input Power	Dec. 04, 2013	Dec. 06, 2013~ Dec. 08, 2013	Dec. 03, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 28, 2013	Dec. 06, 2013~ Dec. 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 28, 2013	Dec. 06, 2013~ Dec. 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	-40℃~150℃	Mar. 28, 2013	Dec. 06, 2013~ Dec. 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Dec. 10, 2013~ Dec. 11, 2013	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Dec. 10, 2013~ Dec. 11, 2013	Oct. 25, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 26, 2012	Dec. 10, 2013~ Dec. 11, 2013	Dec. 25, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz GAIN 30db	Mar. 28, 2013	Dec. 10, 2013~ Dec. 11, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Dec. 10, 2013~ Dec. 11, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170249	14GHz~40GHz	Dec. 23, 2012	Dec. 10, 2013~ Dec. 11, 2013	Dec. 22, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0 ~ 360 degree	N/A	Dec. 10, 2013~ Dec. 11, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m~4 m	N/A	Dec. 10, 2013~ Dec. 11, 2013	N/A	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Sep. 03, 2013	Dec. 06, 2013~ Dec. 08, 2013	Sep. 02, 2014	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000M Hz	NCR	Dec. 06, 2013~ Dec. 08, 2013	NCR	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	NCR	Dec. 06, 2013~ Dec. 08, 2013	NCR	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	NCR	Dec. 06, 2013~ Dec. 08, 2013	NCR	ERP/EIRP (OTA01-SZ)

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5 Uncertainty of Evaluation

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

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

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