

Report No.: FG380112

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life One MARKETING NAME : Life One

FCC ID : YHLBLULIFEONE

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Aug. 01, 2013 and completely tested on Aug. 13, 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.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG380112	Rev. 01	Initial issue of report	Aug. 20, 2013

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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 35.41 dB at 2510.000 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

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1.2 Manufacturer

Tinno mobile

Floor2-2, H-3 Building east industrial zoom, OCT east, Nanshan, Shenzhen

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Life One
Marketing Name	Life One
FCC ID	YHLBLULIFEONE
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/DC-HSDPA/ WLAN 2.4GHz 802.11bgn/Bluetooth v3.0 + EDR
HW Version	V1.0
SW Version	V06
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.

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1.4 Product Specification of Equipment Under Test

Product Specif	ication subjective to this standard			
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz			
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz			
Maximum Output Power to Antenna	GSM850 : 32.68 dBm GSM1900 : 29.00 dBm WCDMA Band V : 23.08 dBm WCDMA Band II : 22.85 dBm			
Antenna Type	IFA Antenna			
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink) DC-HSDPA: 64QAM (Downlink Only)			

1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (%, Hz, ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.4159	0.01 ppm	250KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1449	0.02 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0608	0.01 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	0.6607	0.01 ppm	248KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.3006	0.01 ppm	252KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1690	0.01 ppm	4M18F9W

1.7 Testing Site

Test Site	SPORTON IN	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						
Toot Site No	S	Sporton Site No	٠.	FCC Registration No.			
Test Site No.	TH01-SZ	03CH01-SZ	OTA01-SZ	831040			

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 is rotated on three test planes to find out the worst emission(Y plane).

Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
- 2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes							
Band	Radiated TCs	Conducted TCs					
0014.050	■ GSM Link	■ GSM Link					
GSM 850	■ EDGE class 8 Link	■ EDGE class 8 Link					
CCM 4000	■ GSM Link	■ GSM Link					
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link					
WCDMA Band V ■ RMC 12.2Kbps Link		■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

Note:

- 1. The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.
- 2. Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

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The conducted power tables are as follows: <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	32.60	32.67	<mark>32.68</mark>	<mark>29.00</mark>	28.92	28.96		
GPRS 8	32.54	32.60	32.61	28.97	28.87	28.91		
GPRS 10	31.67	31.71	31.72	28.06	27.99	28.01		
GPRS 11	29.94	29.98	29.99	26.34	26.30	26.31		
GPRS 12	29.17	29.21	29.22	25.55	25.52	25.57		
EGPRS 8	27.25	27.11	27.16	25.53	25.74	25.62		
EGPRS 10	26.01	25.82	25.89	24.15	24.40	24.28		
EGPRS 11	23.65	23.47	23.52	22.05	22.30	22.18		
EGPRS 12	22.52	22.41	22.42	20.88	21.15	21.02		

Conducted Power (*Unit: dBm)								
Band	W	CDMA Band	V	WCDMA Band II				
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
RMC 12.2K	23.06	23.08	22.97	22.85	22.64	22.52		
HSDPA Subtest-1	22.05	22.07	21.96	21.88	21.68	21.56		
HSDPA Subtest-2	22.06	22.09	21.98	21.93	21.72	21.59		
HSDPA Subtest-3	21.58	21.61	21.51	21.45	21.25	21.13		
HSDPA Subtest-4	21.57	21.60	21.50	21.40	21.19	21.06		
DC-HSDPA Subtest-1	21.85	21.79	21.84	21.62	21.70	21.65		
DC-HSDPA Subtest-2	21.90	21.87	21.86	21.57	21.68	21.65		
DC-HSDPA Subtest-3	21.39	21.31	21.35	21.15	21.19	21.15		
DC-HSDPA Subtest-4	21.37	21.30	21.33	21.10	21.19	21.14		
HSUPA Subtest-1	20.46	20.48	20.37	20.32	20.11	19.99		
HSUPA Subtest-2	19.56	19.57	19.46	19.30	19.10	18.98		
HSUPA Subtest-3	20.49	20.51	20.39	20.35	20.14	20.01		
HSUPA Subtest-4	19.58	19.60	19.49	19.26	19.05	18.93		
HSUPA Subtest-5	21.01	21.02	20.90	20.65	20.45	20.32		
HSPA+ (16QAM) Subtest-1	20.27	20.23	20.22	20.11	20.21	20.12		

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<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	32.61	32.66	<mark>32.67</mark>	<mark>28.99</mark>	28.91	28.94		
GPRS 8	32.52	32.60	32.60	28.96	28.86	28.90		
GPRS 10	31.64	31.72	31.71	28.04	27.98	27.99		
GPRS 11	29.93	29.97	29.97	26.32	26.28	26.29		
GPRS 12	29.17	29.20	29.21	25.53	25.50	25.56		
EGPRS 8	27.23	27.11	27.17	25.51	25.73	25.60		
EGPRS 10	26.01	25.78	25.88	24.13	24.38	24.27		
EGPRS 11	23.63	23.48	23.53	22.03	22.29	22.16		
EGPRS 12	22.51	22.40	22.40	20.83	21.14	21.02		

Conducted Power (*Unit: dBm)								
Band	W	CDMA Band	٧	WCDMA Band II				
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
RMC 12.2K	23.03	23.06	22.96	<mark>22.84</mark>	22.52	22.50		
HSDPA Subtest-1	22.04	22.06	21.94	21.86	21.67	21.55		
HSDPA Subtest-2	22.06	22.08	21.97	21.92	21.70	21.57		
HSDPA Subtest-3	21.56	21.59	21.50	21.44	21.25	21.12		
HSDPA Subtest-4	21.58	21.59	21.48	21.38	21.18	21.05		
DC-HSDPA Subtest-1	21.83	21.77	21.82	21.60	21.68	21.64		
DC-HSDPA Subtest-2	21.89	21.86	21.85	21.58	21.67	21.63		
DC-HSDPA Subtest-3	21.38	21.30	21.33	21.13	21.19	21.16		
DC-HSDPA Subtest-4	21.35	21.28	21.31	21.10	21.15	21.13		
HSUPA Subtest-1	20.45	20.47	20.35	20.30	20.11	19.95		
HSUPA Subtest-2	19.54	19.55	19.44	19.28	19.08	18.99		
HSUPA Subtest-3	20.47	20.50	20.37	20.33	20.14	20.00		
HSUPA Subtest-4	19.56	19.58	19.48	19.25	19.04	18.88		
HSUPA Subtest-5	20.99	21.01	20.88	20.63	20.43	20.31		
HSPA+ (16QAM) Subtest-1	20.25	20.22	20.21	20.10	20.22	20.15		

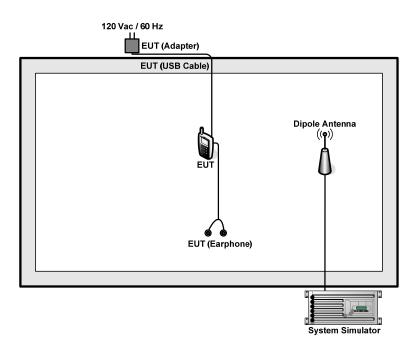
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2.2 Connection Diagram of Test System



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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	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Agilent	8960	N/A	N/A	Unshielded, 1.8 m
3.	DC Power Supply	GW	GPC-60300	N/A	N/A	Unshielded, 1.8 m

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.

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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 7.5 dB and 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 7.5 + 10 = 17.5 (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.

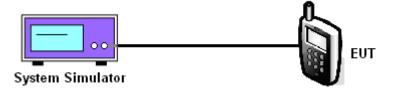
3.1.2 Measuring Instruments

See list of measuring instruments 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.
- 4. 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	G	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)				
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)			
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6			
Conducted Power (dBm)	32.60	32.67	32.68	27.25	27.11	27.16	23.06	23.08	22.97			
Conducted Power (Watts)	1.82	1.85	1.85	0.53	0.51	0.52	0.20	0.20	0.20			

	PCS Band										
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)				
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6		
Conducted Power (dBm)	29.00	28.92	28.96	25.53	25.74	25.62	22.85	22.64	22.52		
Conducted Power (Watts)	0.79	0.78	0.79	0.36	0.37	0.36	0.19	0.18	0.18		

Note: maximum burst average power for GSM, and maximum average power for WCDMA.

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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

See list of measuring instruments of this test report.

3.2.3 Test Procedures

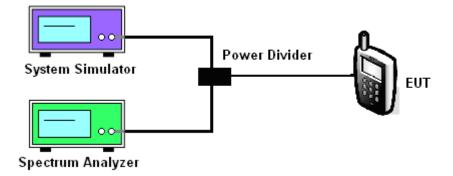
- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector 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.

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- 3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

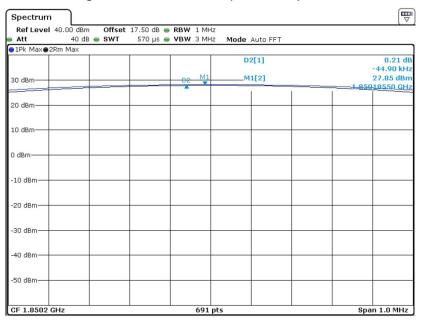
	PCS Band										
Modes	GS	6M1900 (GS	GSM1900 (EDGE class 8)			class 8)	WCDMA Band II (RMC 12.2Kbps)				
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6		
Peak-to-Average Ratio (dB)	0.21	0.22	0.21	3.13	3.08	3.06	3.00	3.04	2.60		

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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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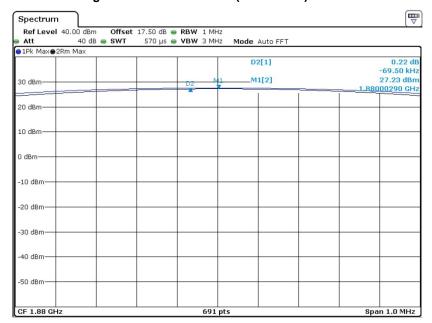
Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 13.AUG.2013 05:05:50

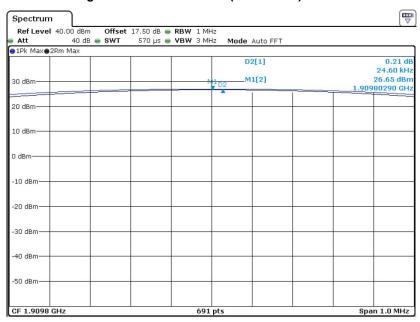
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Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 13.AUG.2013 05:04:54

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



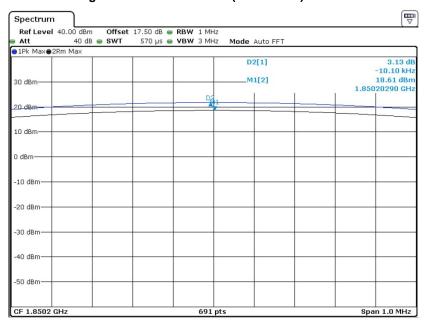
Date: 13.AUG.2013 05:06:24

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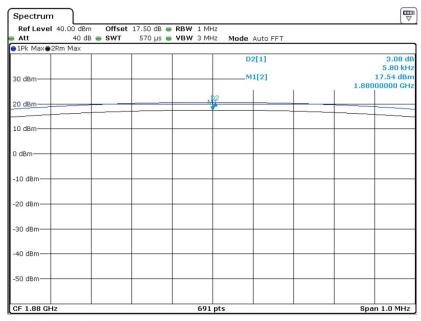
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 13.AUG.2013 05:14:23

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



Date: 13.AUG.2013 05:13:27

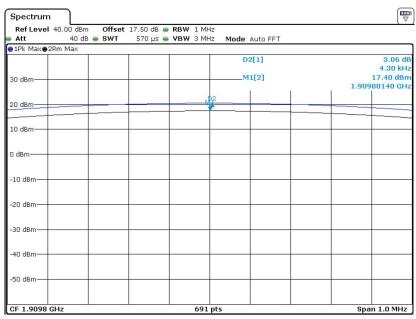
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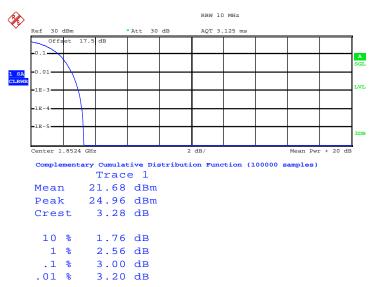
Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 13.AUG.2013 05:15:15

WCDMA Band II RMC 12.2Kbps Link (QPSK) **Test Mode:** Band:

Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



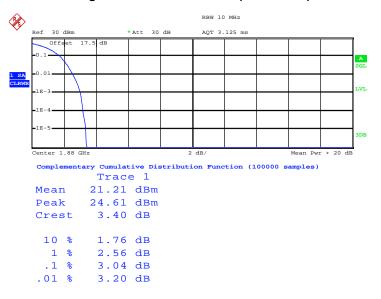
Date: 12.AUG.2013 13:13:12

Report Version

FCC RF Test Report

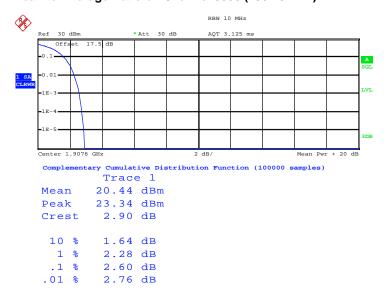
Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)

Report No.: FG380112



Date: 12.AUG.2013 13:13:52

Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 12.AUG.2013 13:13:29

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.

3.3.2 Measuring Instruments

See list of measuring instruments 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;
 UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, 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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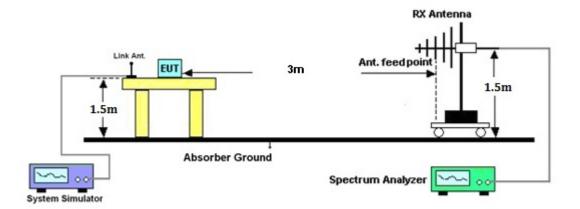
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3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP									
	Horizontal Polarization									
Frequency	Frequency Rt Rs Ps Gs ERP ERP									
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
824.20	-20.85	-48.12	0.00	-1.08	26.19	0.4159				
836.40	-21.85	-48.28	0.00	-0.93	25.50	0.3548				
848.80	-22.73	-48.35	0.00	-0.76	24.86	0.3062				
		Ve	ertical Polarizati	on						
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
824.20	-24.25	-47.97	0.00	-1.08	22.64	0.1837				
836.40	-24.71	-48.01	0.00	-0.93	22.37	0.1726				
848.80	-24.60	-48.05	0.00	-0.76	22.69	0.1858				

	GSM850 (EDGE class 8) Radiated Power ERP										
	Horizontal Polarization										
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)					
824.20	-25.43	-48.12	0.00	-1.08	21.61	0.1449					
836.40	-26.72	-48.28	0.00	-0.93	20.63	0.1156					
848.80	-27.91	-48.35	0.00	-0.76	19.68	0.0929					
		Ve	ertical Polarizati	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)					
824.20	-29.05	-47.97	0.00	-1.08	17.84	0.0608					
836.40	-29.62	-48.01	0.00	-0.93	17.46	0.0557					
848.80	-29.71	-48.05	0.00	-0.76	17.58	0.0573					

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP										
	Horizontal Polarization										
Frequency Rt Rs Ps Gs ERP ERP											
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)					
826.40	-29.20	-48.12	0.00	-1.08	17.84	0.0608					
836.40	-29.76	-48.28	0.00	-0.93	17.59	0.0574					
846.60	-30.69	-48.35	0.00	-0.76	16.90	0.0490					
		Ve	ertical Polarizati	on							
Frequency	Rt	Rs	Ps	Gs	ERP	ERP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)					
826.40	-32.52	-47.97	0.00	-1.08	14.37	0.0274					
836.40	-32.64	-48.01	0.00	-0.93	14.44	0.0278					
846.60	-32.77	-48.05	0.00	-0.76	14.52	0.0283					

3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP									
	Horizontal Polarization									
Frequency Rt Rs Ps Gs EIRP EIRP (MHz) (dBm) (dBm) (dBi) (dBm) (W)										
1850.20	-26.70	-51.88	0.00	1.96	27.14	0.5176				
1880.00	-28.00	-52.99	0.00	2.00	26.99	0.5000				
1909.80	-28.81	-54.28	0.00	1.98	27.45	0.5559				
		Ve	ertical Polarizati	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-26.31	-52.13	0.00	1.96	27.78	0.5998				
1880.00	-27.67	-53.17	0.00	2.00	27.50	0.5623				
1909.80	-27.91	-54.13	0.00	1.98	28.20	0.6607				

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	GSM1900 (EDGE class 8) Radiated Power EIRP										
	Horizontal Polarization										
Frequency	Frequency Rt Rs Ps Gs EIRP EIRP										
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)					
1850.20	-30.29	-51.88	0.00	1.96	23.55	0.2265					
1880.00	-31.33	-52.99	0.00	2.00	23.66	0.2323					
1909.80	-32.32	-54.28	0.00	1.98	23.94	0.2477					
		Ve	ertical Polarizati	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)					
1850.20	-29.82	-52.13	0.00	1.96	24.27	0.2673					
1880.00	-31.00	-53.17	0.00	2.00	24.17	0.2612					
1909.80	-31.33	-54.13	0.00	1.98	24.78	0.3006					

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP										
	Horizontal Polarization										
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)					
1852.40	-32.15	-51.88	0.00	1.96	21.69	0.1476					
1880.00	-33.71	-52.99	0.00	2.00	21.28	0.1343					
1907.60	-34.80	-54.28	0.00	1.98	21.46	0.1400					
		Ve	ertical Polarizati	on							
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)					
1852.40	-31.81	-52.13	0.00	1.96	22.28	0.1690					
1880.00	-33.37	-53.17	0.00	2.00	21.80	0.1514					
1907.60	-34.04	-54.13	0.00	1.98	22.07	0.1611					

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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.

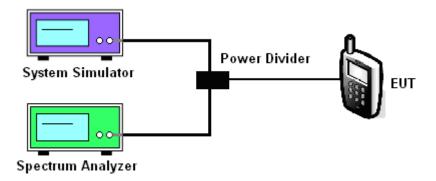
3.4.2 Measuring Instruments

See list of measuring instruments 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 Occupied Bandwidth and 26dB Bandwidth

Cellular Band									
Modes	G	SM850 (GSI	VI)	GSM850 (EDGE class 8)					
Channel	128	189	251	128	189	251			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8			
99% OBW (kHz)	250.00	250.00	248.00	246.00	248.00	246.00			
26dB BW (kHz)	310.00	306.00	304.00	312.00	306.00	310.00			

PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)		
Channel	512	661	810	512	661	810
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	248.00	246.00	246.00	252.00	250.00	252.00
26dB BW (kHz)	308.00	308.00	310.00	310.00	316.00	322.00

Cellular Band					
Modes	WCDMA Band V (RMC 12.2Kbps)				
Channel	4132 (Low)	4182 (Mid)	4233 (High)		
Frequency (MHz)	826.4	836.4	846.6		
99% OBW (MHz)	4.18	4.16	4.18		
26dB BW (MHz)	4.68	4.70	4.70		

PCS Band					
Modes	WCDMA Band II (RMC 12.2Kbps)				
Channel	9262 (Low)	9400 (Mid)	9538 (High)		
Frequency (MHz)	1852.4	1880	1907.6		
99% OBW (MHz)	4.18	4.16	4.18		
26dB BW (MHz)	4.70	4.70	4.72		

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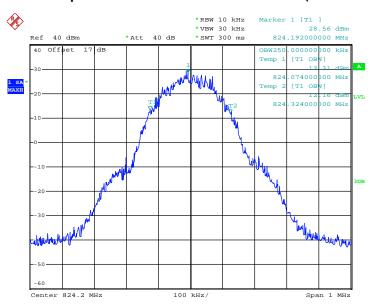
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3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

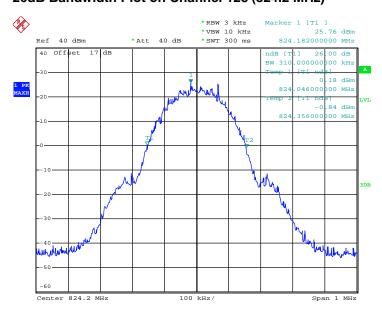
Band: GSM 850	Test Mode :	GSM Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 1.AUG.2013 10:42:15

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 12.AUG.2013 16:45:01

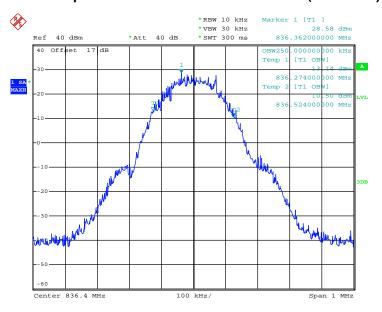
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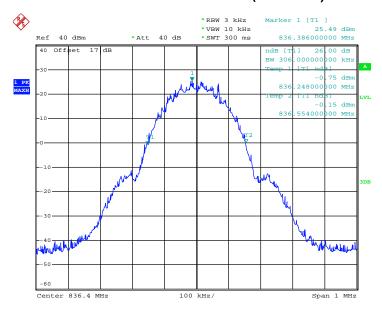
Report No.: FG380112

99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 1.AUG.2013 10:41:09

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

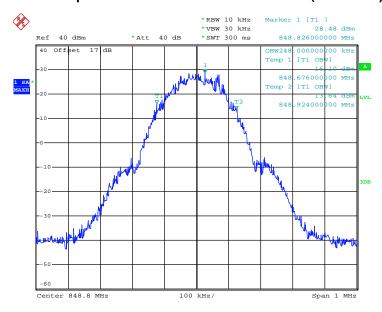


Date: 12.AUG.2013 16:43:44

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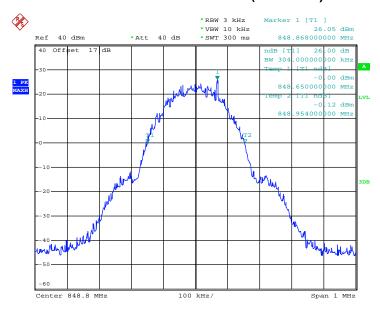


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 1.AUG.2013 10:39:54

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 12.AUG.2013 16:42:30

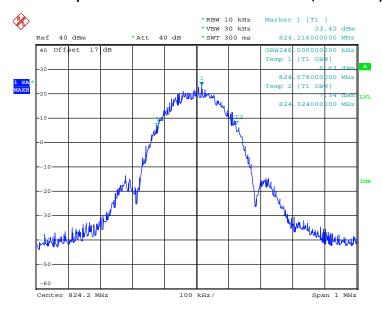
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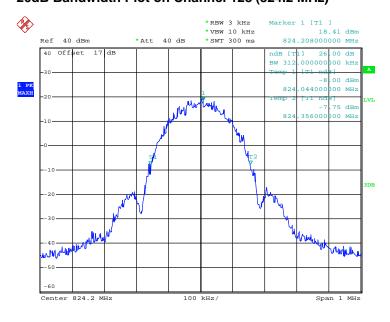
Band: **GSM 850** Test Mode: EDGE class 8 Link (8PSK)

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



Date: 12.AUG.2013 15:17:50

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 12.AUG.2013 15:10:28

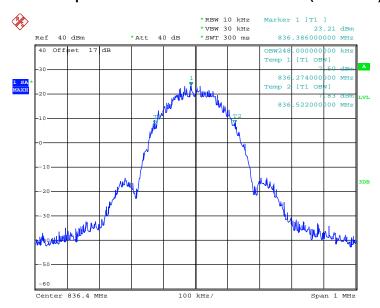
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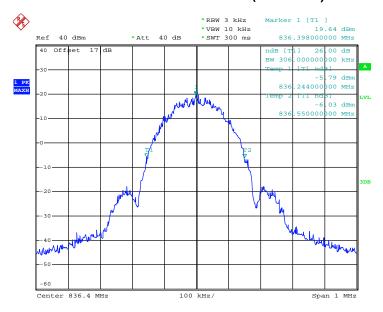
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 12.AUG.2013 15:16:45

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



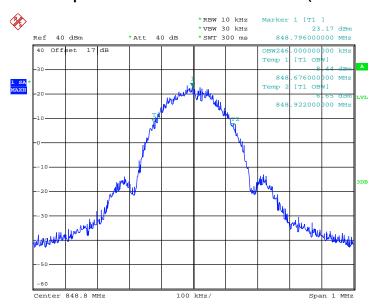
Date: 12.AUG.2013 15:09:11

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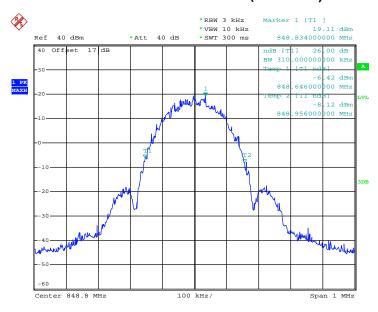
Report No.: FG380112

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



Date: 12.AUG.2013 15:15:13

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 12.AUG.2013 15:11:51

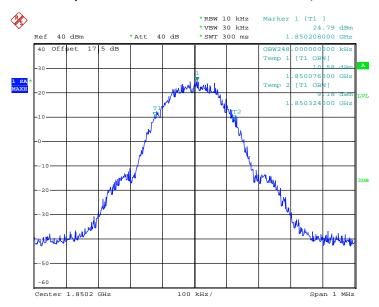
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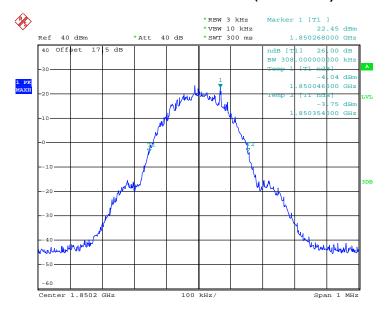
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 12.AUG.2013 16:11:18

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 12.AUG.2013 16:17:57

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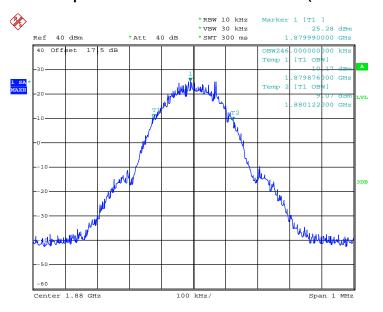
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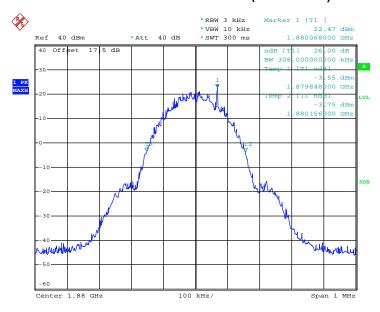
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 12.AUG.2013 16:09:50

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



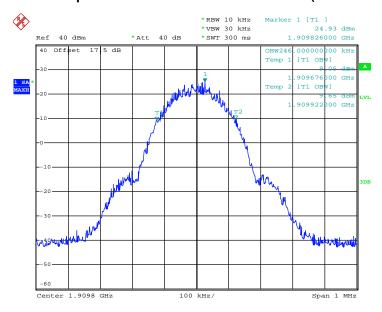
Date: 12.AUG.2013 16:16:15

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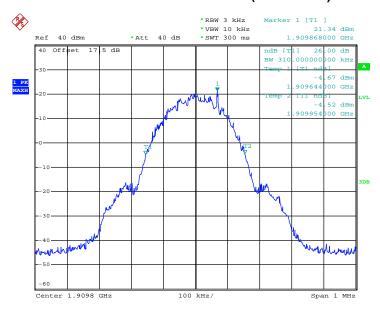
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99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 12.AUG.2013 16:12:46

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

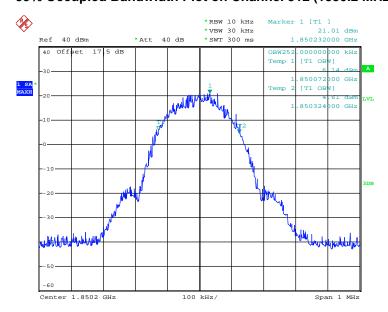


Date: 12.AUG.2013 16:15:01

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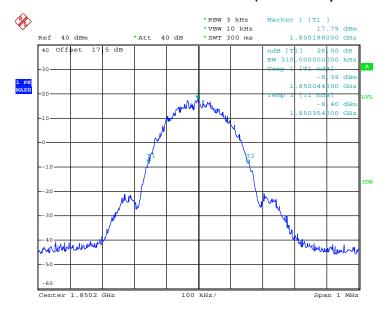
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 12.AUG.2013 16:03:21

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



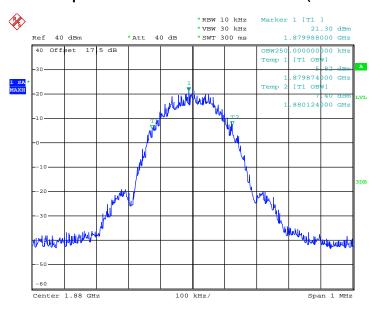
Date: 12.AUG.2013 16:01:50

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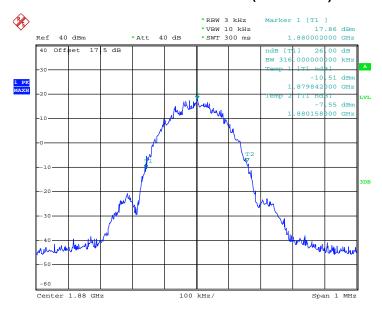


99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 12.AUG.2013 16:04:18

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

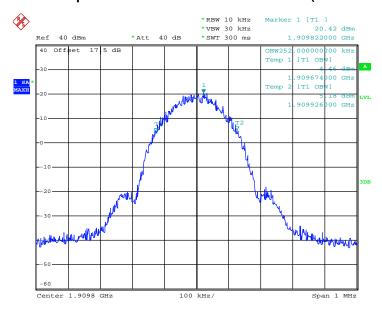


Date: 12.AUG.2013 15:59:20

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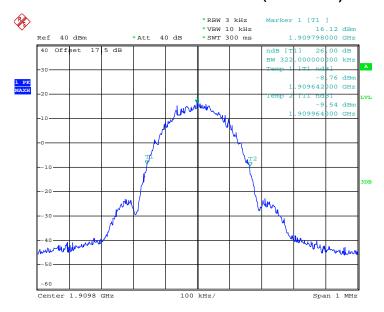


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 12.AUG.2013 16:06:18

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

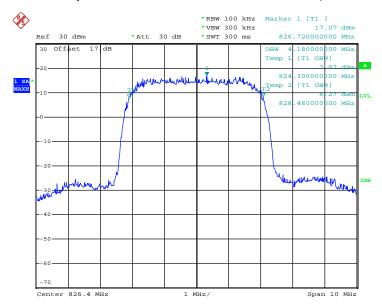


Date: 12.AUG.2013 15:57:55

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 38 of 95
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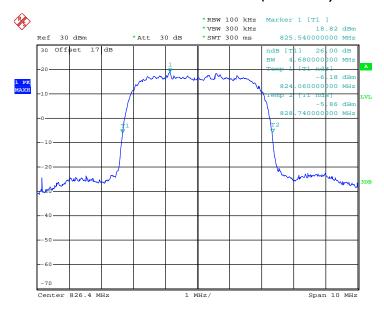
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 12.AUG.2013 12:40:20

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 12.AUG.2013 12:36:01

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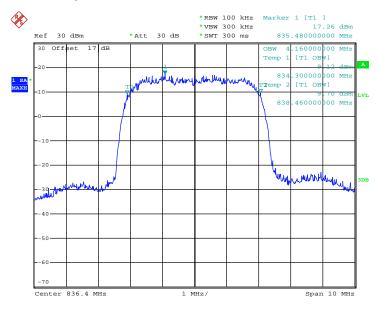
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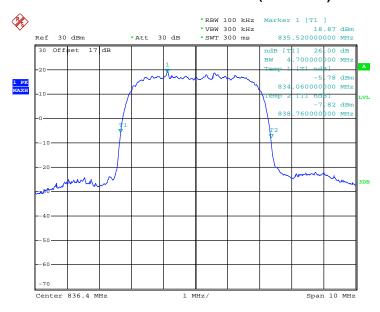


99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 12.AUG.2013 12:41:44

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)

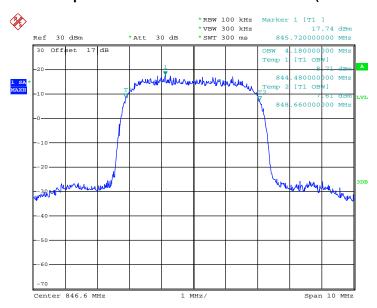


Date: 12.AUG.2013 12:35:04

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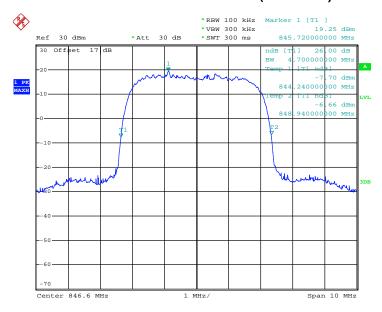


99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 12.AUG.2013 12:38:54

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

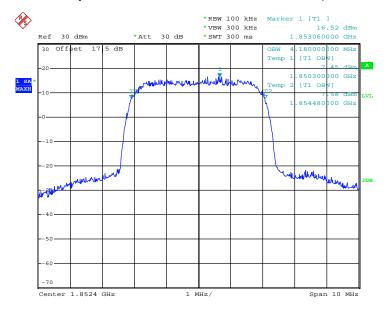


Date: 12.AUG.2013 12:36:58

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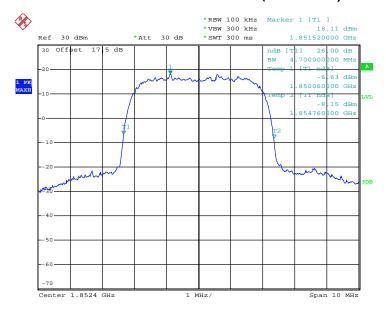
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 12.AUG.2013 13:07:04

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



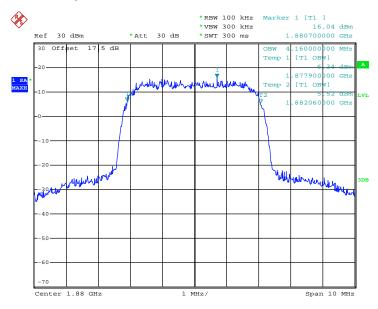
Date: 12.AUG.2013 13:12:31

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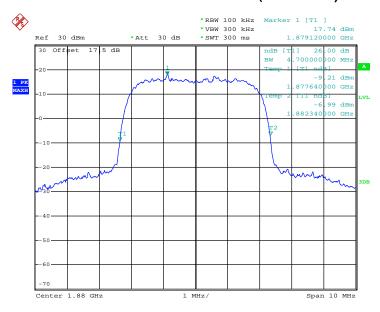


99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 12.AUG.2013 13:09:17

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

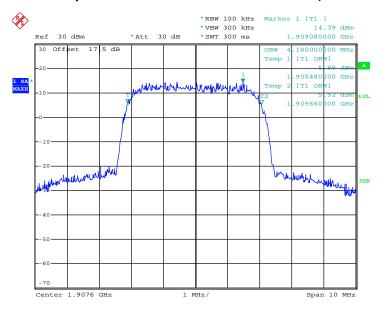


Date: 12.AUG.2013 13:10:39

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 43 of 95
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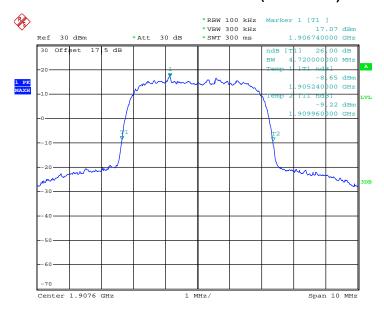


99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 12.AUG.2013 13:08:03

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 12.AUG.2013 13:11:28

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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

See list of measuring instruments 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.
- The RF fundamental frequency should be excluded against the limit line in the operating 4. 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.

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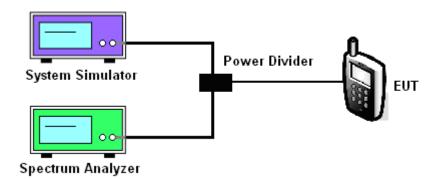
: Rev. 01

Report No. : FG380112



3.5.4 Test Setup

<Conducted Band Edge >



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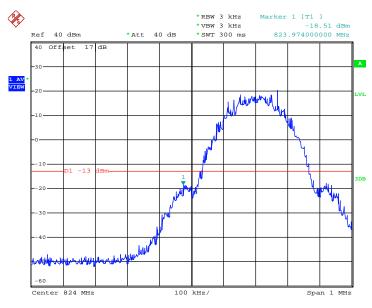
Report No. : FG380112



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-18.37dBm	Measurement Value :	-18.51dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 12.AUG.2013 16:40:33

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

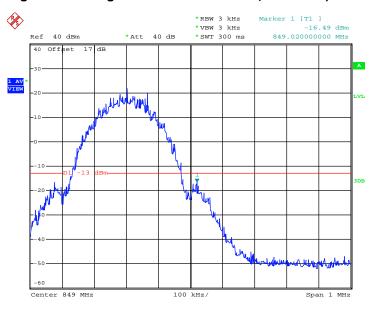
For example, -18.51dBm + 0.14dB = -18.37dBm

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Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-16.35dBm	Measurement Value :	-16.49dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 12.AUG.2013 16:41:31

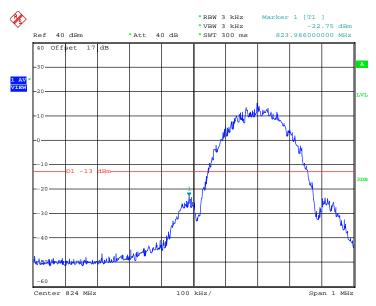
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-22.58dBm	Measurement Value :	-22.75dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



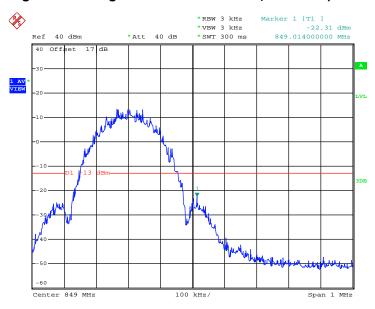
Date: 12.AUG.2013 15:20:10

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

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-22.14dBm	Measurement Value :	-22.31dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 12.AUG.2013 15:21:05

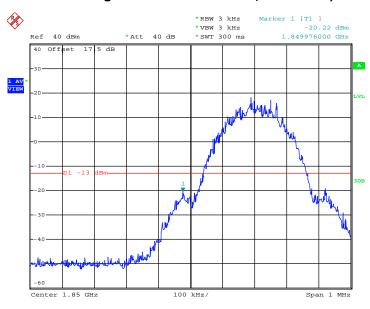
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-20.08dBm	Measurement Value :	-20.22dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 12.AUG.2013 16:19:14

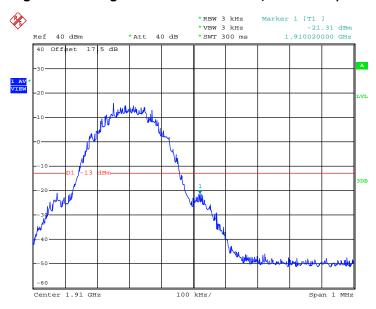
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-21.17dBm	Measurement Value :	-21.31dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



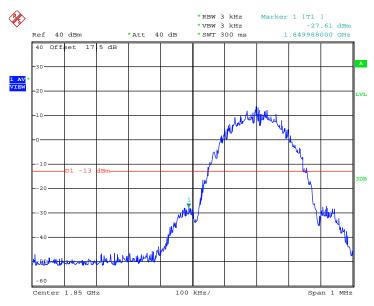
Date: 12.AUG.2013 16:20:43

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

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE **Report No. : FG380112**

Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.31dB	Maximum 26dB Bandwidth :	0.322MHz
Band Edge :	-27.30dBm	Measurement Value :	-27.61dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



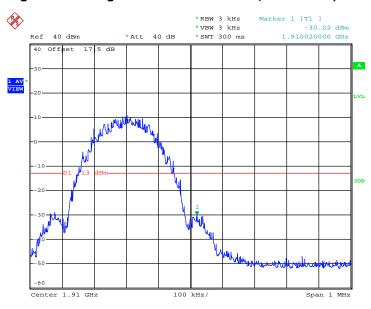
Date: 12.AUG.2013 15:53:02

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

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Report No.: FG380112

Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.31dB	Maximum 26dB Bandwidth :	0.322MHz
Band Edge :	-29.71dBm	Measurement Value :	-30.02dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



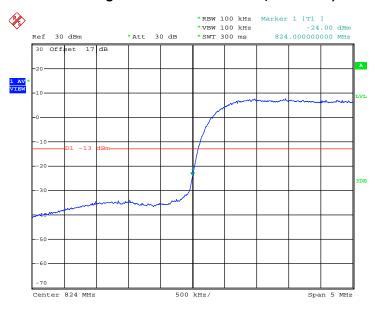
Date: 12.AUG.2013 15:54:34

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

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-27.28dBm	Measurement Value :	-24.00dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 12.AUG.2013 13:17:00

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

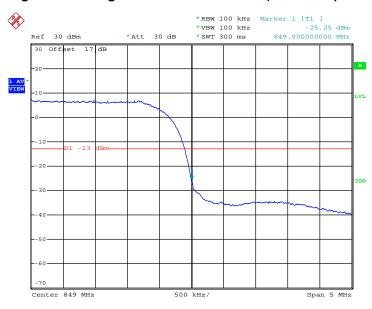
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FCC RF Test Report

Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-28.53dBm	Measurement Value :	-25.25dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 12.AUG.2013 13:17:36

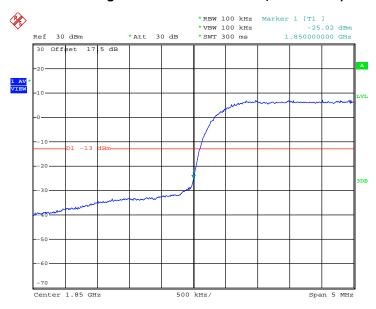
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth:	4.720MHz
Band Edge :	-28.28dBm	Measurement Value :	-25.02dBm

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 12.AUG.2013 13:04:38

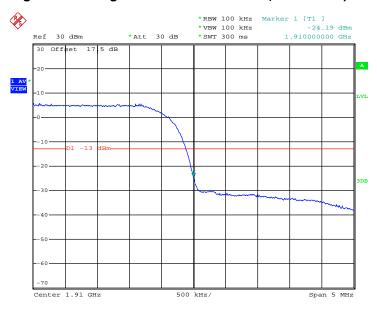
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-27.45dBm	Measurement Value :	-24.19dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 12.AUG.2013 13:04:11

- 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.

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

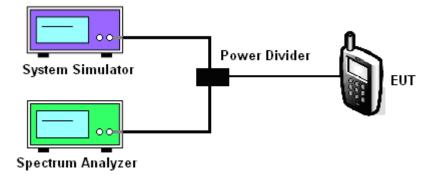
3.6.2 Measuring Instruments

See list of measuring instruments 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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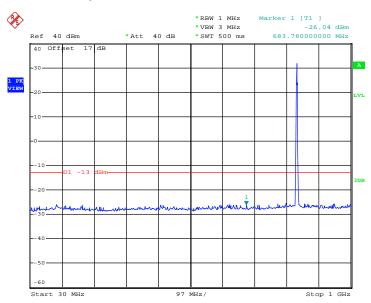
Report Issued Date : Aug. 20, 2013
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

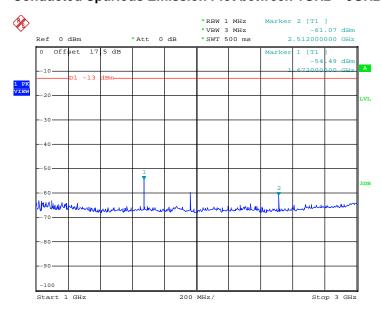
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 12.AUG.2013 16:38:04

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

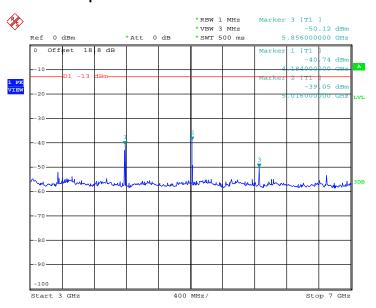


Date: 12.AUG.2013 16:34:37

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE Page Number : 60 of 95 Report Issued Date: Aug. 20, 2013

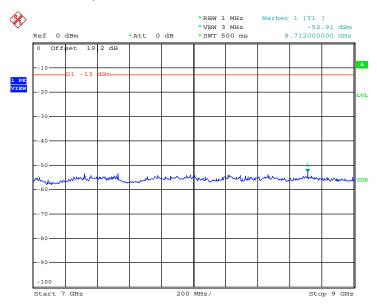


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 12.AUG.2013 16:35:28

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



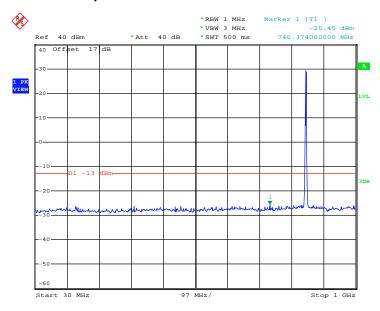
Date: 12.AUG.2013 16:36:30

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 61 of 95
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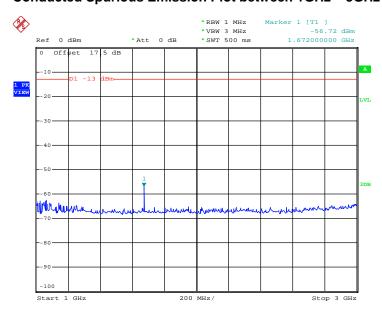
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 12.AUG.2013 15:25:36

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

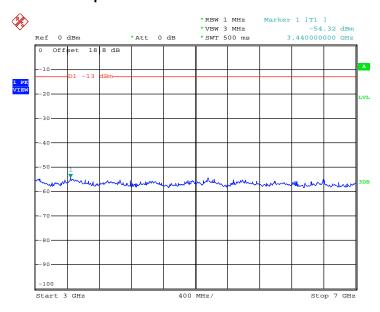


Date: 12.AUG.2013 15:32:52

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE **Report No.: FG380112**

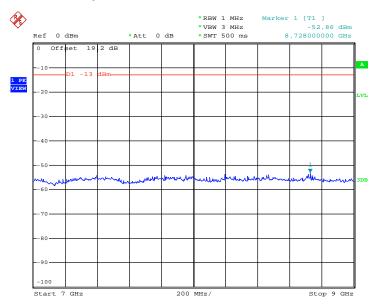


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 12.AUG.2013 15:34:41

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 12.AUG.2013 15:35:34

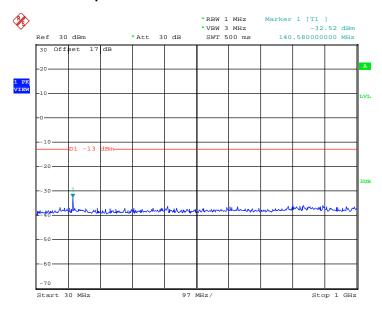
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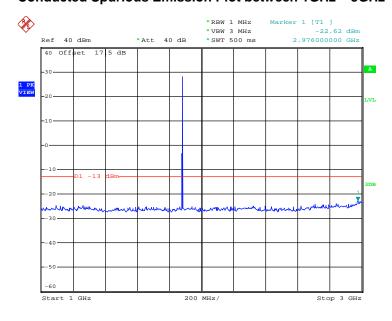
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 12.AUG.2013 16:22:46

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 12.AUG.2013 16:23:59

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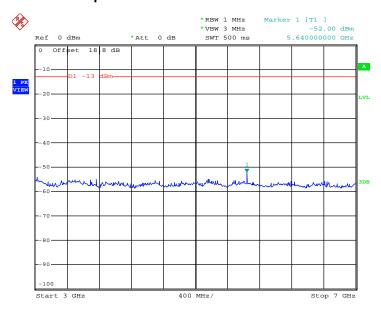
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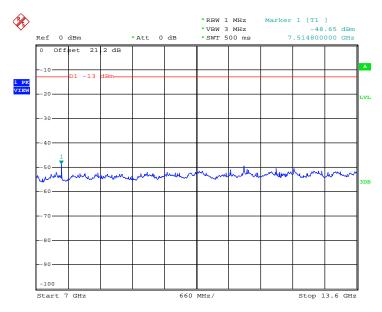


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 12.AUG.2013 16:25:35

Conducted Emission Plot between 7GHz ~ 13.6GHz

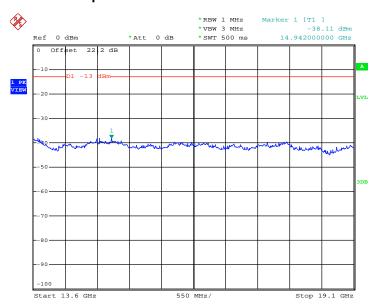


Date: 12.AUG.2013 16:26:27

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 12.AUG.2013 16:27:25

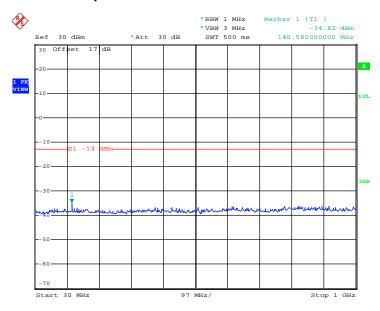
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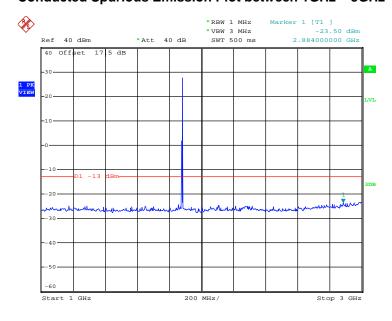
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 12.AUG.2013 15:49:35

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 12.AUG.2013 15:51:00

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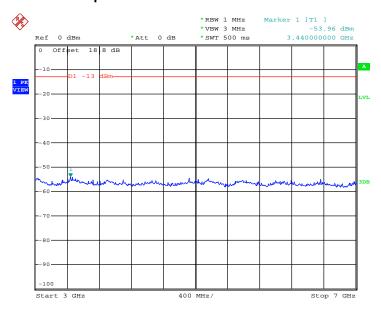
: Rev. 01

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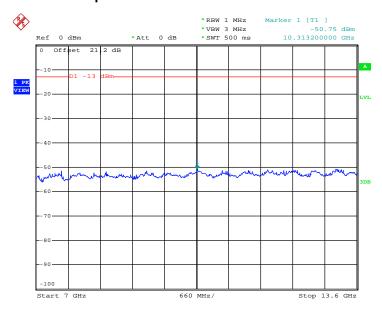


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 12.AUG.2013 15:46:38

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



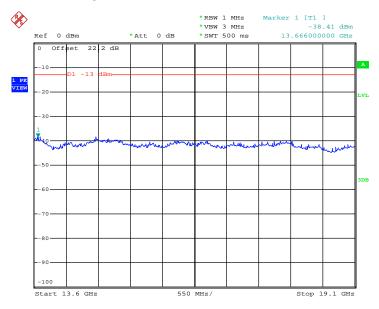
Date: 12.AUG.2013 15:47:28

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



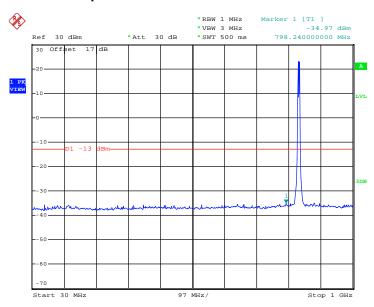
Date: 12.AUG.2013 15:48:10

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEONE Page Number : 69 of 95
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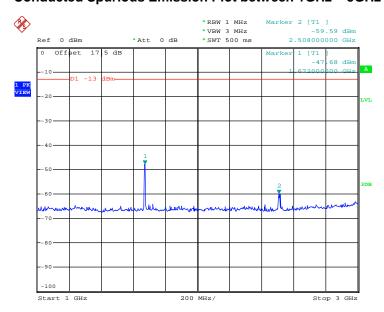
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 12.AUG.2013 12:50:16

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



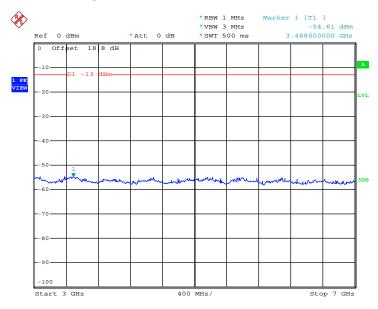
Date: 12.AUG.2013 12:52:21

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 70 of 95
Report Issued Date : Aug. 20, 2013

Report No.: FG380112

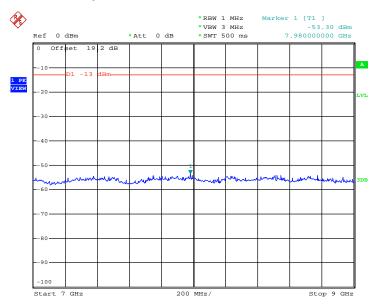


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 12.AUG.2013 12:53:42

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



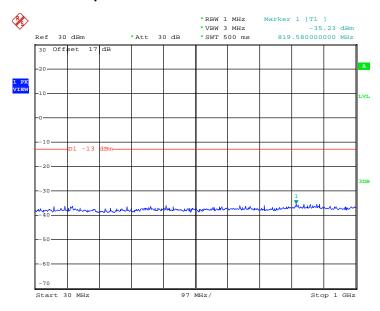
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TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 71 of 95
Report Issued Date : Aug. 20, 2013



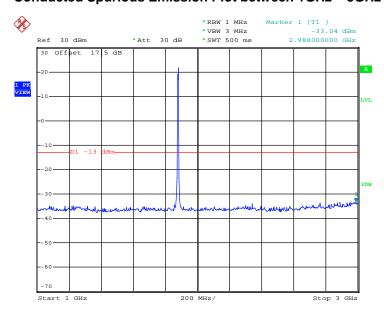
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 12.AUG.2013 13:00:53

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



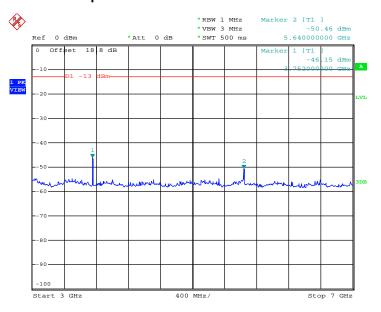
Date: 12.AUG.2013 13:01:32

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE **Report No.: FG380112**



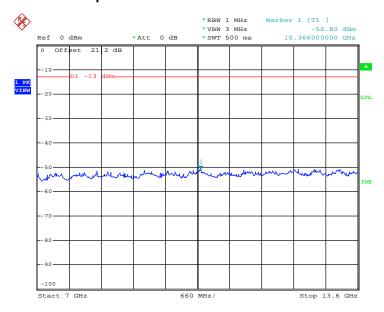
Report No. : FG380112

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 12.AUG.2013 12:58:05

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



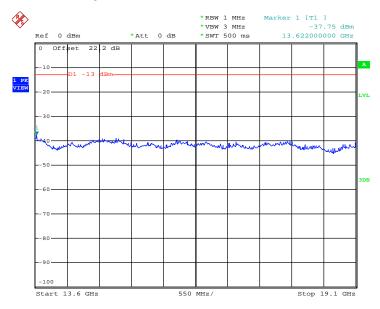
Date: 12.AUG.2013 12:59:03

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 73 of 95
Report Issued Date : Aug. 20, 2013



Report No. : FG380112

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 12.AUG.2013 12:59:37

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE

Page Number : 74 of 95
Report Issued Date : Aug. 20, 2013



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

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

Report No.: FG380112

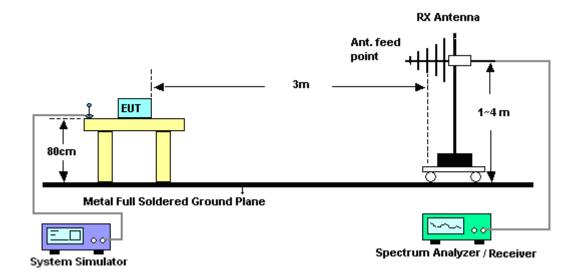
FCC ID : YHLBLULIFEONE



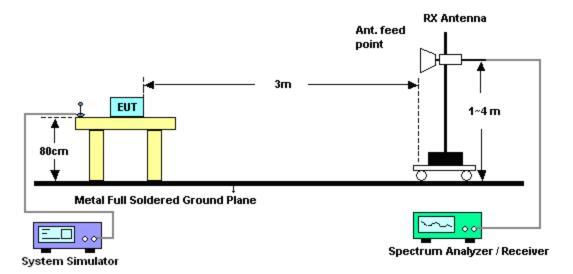
Report No.: FG380112

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

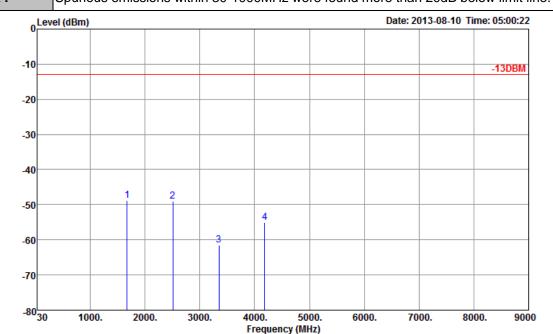


TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 76 of 95
Report Issued Date : Aug. 20, 2013



3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	23~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz	were found more tha	n 20dB below limit line.



Site : 03CH01-SZ

Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL

Project : (FG) 380112 Mode : Mode 1 Plane : Y

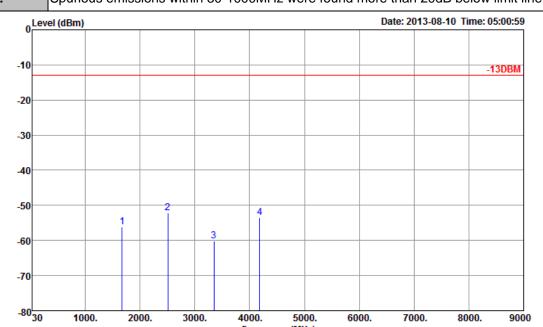
IMEI : 353919026113708

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	-48.85	-13	-35.85	-63.69	-49.50	0.57	3.37	Н	Pass
2510	-49.11	-13	-36.11	-70.55	-51.34	0.78	5.16	Н	Pass
3346	-61.42	-13	-48.42	-72.02	-65.06	0.87	6.66	Н	Pass
4182	-55.09	-13	-42.09	-69.85	-59.68	0.97	7.71	Н	Pass

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 77 of 95
Report Issued Date : Aug. 20, 2013

Report No.: FG380112

Band :	GSM850	Temperature :	23~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Vertical
Remark:	Spurious emissions within 30-1000MHz	were found more tha	n 20dB below limit line



Frequency (MHz)

Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 380112 Condition

Project Mode : Mode 1 Plane

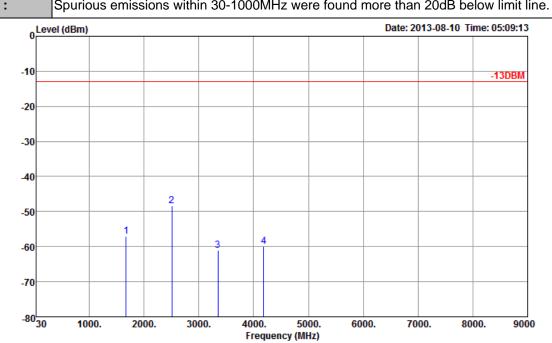
IMEI : 353919026113708

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	-56.25	-13	-43.25	-66.88	-56.90	0.57	3.37	V	Pass
2510	-52.08	-13	-39.08	-70.89	-54.31	0.78	5.16	V	Pass
3346	-60.22	-13	-47.22	-72.05	-63.86	0.87	6.66	V	Pass
4182	-53.47	-13	-40.47	-68.69	-58.06	0.97	7.71	V	Pass
1672	-56.25	-13	-43.25	-66.88	-56.90	0.57	3.37	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE Page Number : 78 of 95 Report Issued Date: Aug. 20, 2013

Report No.: FG380112

Band :	GSM850	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Horizontal
Pomark :	Spurious emissions within 30-1000MHz	were found more tha	n 20dB below limit line



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 380112 Condition

Project Mode Mode 2 Plane

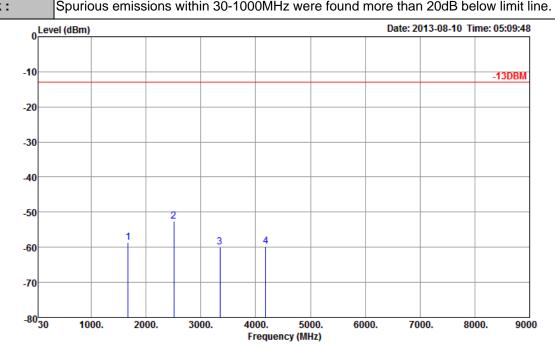
IMEI 353919026113708

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	-57.01	-13	-44.01	-69.93	-57.66	0.57	3.37	Н	Pass
2510	-48.41	-13	-35.41	-70.23	-50.64	0.78	5.16	Н	Pass
3346	-60.99	-13	-47.99	-71.59	-64.63	0.87	6.66	Н	Pass
4182	-59.98	-13	-46.98	-74.74	-64.57	0.97	7.71	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE Page Number : 79 of 95 Report Issued Date: Aug. 20, 2013

Report No.: FG380112

Band :	GSM850	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Vertical
Domork .	Courious amissions within 20 1000MHz	ware found more the	n 20dB balaw limit line



Site : 03CH01-SZ

Condition : -13DBM HF_EIRP_V_130101 VERTICAL Project : (FG) 380112

Project : (FG) 380

Mode : Mode 2

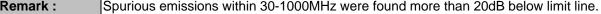
Plane : Y

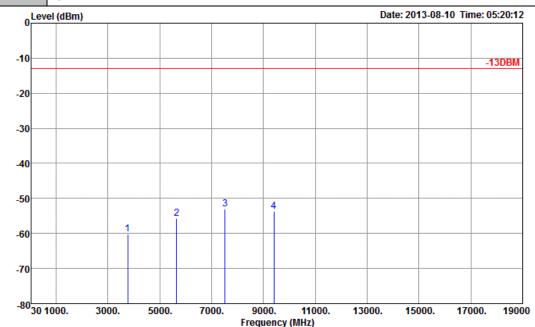
IMEI : 353919026113708

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	-58.70	-13	-45.70	-69.33	-59.35	0.57	3.37	V	Pass
2510	-52.49	-13	-39.49	-71.32	-54.72	0.78	5.16	V	Pass
3346	-59.84	-13	-46.84	-71.67	-63.48	0.87	6.66	V	Pass
4182	-59.64	-13	-46.64	-74.86	-64.23	0.97	7.71	V	Pass

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE **Report No.: FG380112**

Band :	GSM1900	Temperature :	23~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Horizontal
Domork .	Courious amissions within 20 1000MHz	ware found more the	n 20dB balaw limit lina





Site : 03CH01-SZ

Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL

Project : (FG) 380112 Mode : Mode 1 Plane : Y

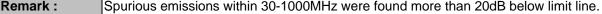
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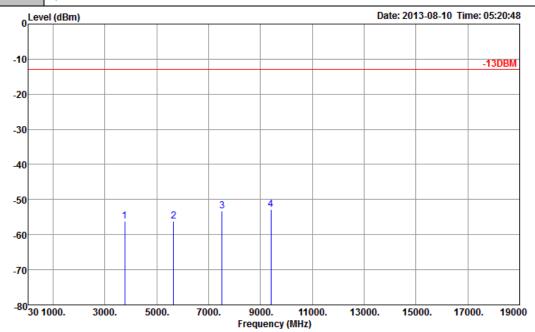
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-60.27	-13	-47.27	-72.42	-67.01	1.28	8.02	Н	Pass
5640	-55.60	-13	-42.60	-73.59	-64.02	1.58	10.00	Н	Pass
7520	-52.97	-13	-39.97	-74.91	-63.29	1.78	12.10	Н	Pass
9400	-53.72	-13	-40.72	-75.84	-64.50	2.22	13.00	Н	Pass

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 81 of 95
Report Issued Date : Aug. 20, 2013

Report No.: FG380112

Band :	GSM1900	Temperature :	23~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Vertical
Domork .	Courious amissions within 20 1000MHz	ware found more the	n 20dB balaw limit lina





Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 380112 Condition

Project Mode Mode 1 Plane

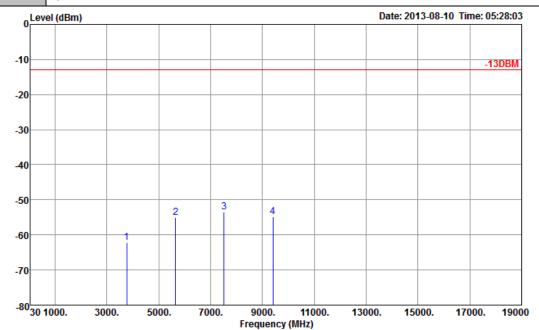
IMEI 353919026113708

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	-56.13	-13	-43.13	-71.16	-62.87	1.28	8.02	V	Pass
5640	-56.20	-13	-43.20	-73.28	-64.62	1.58	10	V	Pass
7520	-53.32	-13	-40.32	-75.57	-63.64	1.78	12.1	V	Pass
9400	-52.90	-13	-39.90	-76.52	-63.68	2.22	13	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE **Report No.: FG380112**

Band :	GSM1900	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Horizontal	
_			

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



Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 380112 Condition

Project Mode : Mode 2 Plane

IMEI 353919026113708

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	-62.10	-13	-49.10	-74.25	-68.84	1.28	8.02	Н	Pass
5640	-54.97	-13	-41.97	-72.96	-63.39	1.58	10.00	Н	Pass
7520	-53.56	-13	-40.56	-75.50	-63.88	1.78	12.10	Н	Pass
9400	-54.73	-13	-41.73	-76.85	-65.51	2.22	13.00	Н	Pass

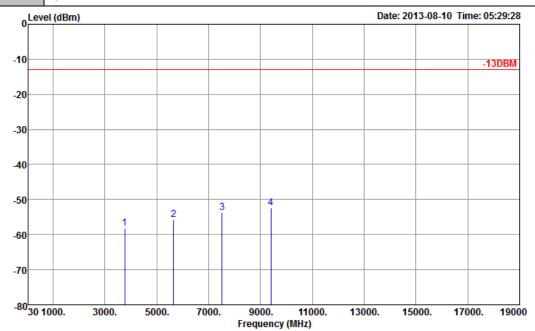
TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE

: 83 of 95 Page Number Report Issued Date: Aug. 20, 2013

Report No.: FG380112

Band :	GSM1900	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Vertical	
_			

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



Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 380112 Condition

Project Mode Mode 2 Plane

IMEI 353919026113708

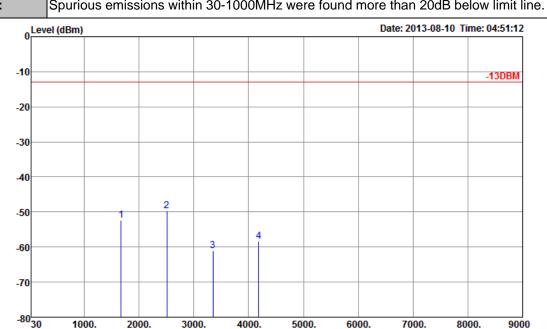
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-58.24	-13	-45.24	-73.27	-64.98	1.28	8.02	V	Pass
5640	-55.67	-13	-42.67	-72.75	-64.09	1.58	10	V	Pass
7520	-53.74	-13	-40.74	-75.99	-64.06	1.78	12.1	V	Pass
9400	-52.41	-13	-39.41	-76.03	-63.19	2.22	13	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE

: 84 of 95 Page Number Report Issued Date: Aug. 20, 2013

Report No.: FG380112

Band :	WCDMA Band V	Temperature : 23~25°C					
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	49~52%				
Test Engineer :	Gavin Zhang Polarization : Horizontal						
Romark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit						



Frequency (MHz)

Site

: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL : (FG) 380112 Condition

Project Mode : Mode 3 Plane

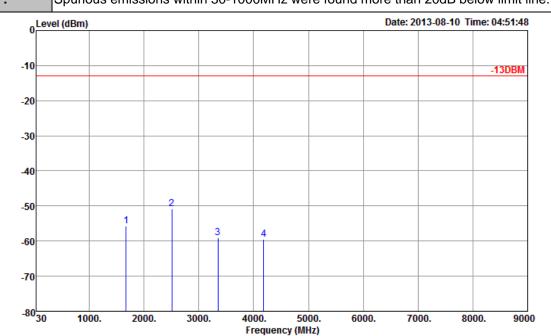
IMEI 353919026113708

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	-52.34	-13	-39.34	-65.90	-52.99	0.57	3.37	Н	Pass
2510	-49.67	-13	-36.67	-71.18	-51.90	0.78	5.16	Н	Pass
3346	-61.15	-13	-48.15	-71.75	-64.79	0.87	6.66	Н	Pass
4182	-58.49	-13	-45.49	-73.25	-63.08	0.97	7.71	Н	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE Page Number : 85 of 95 Report Issued Date: Aug. 20, 2013

Report No.: FG380112

Band :	WCDMA Band V	Temperature : 23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK) Relative Humidit		49~52%			
Test Engineer :	Gavin Zhang Polarization : Vertical					
Remark : Spurious emissions within 30-1000MHz were found more than 20dB helps						



Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 380112 Condition

Project Mode : Mode 3 Plane

IMEI : 353919026113708

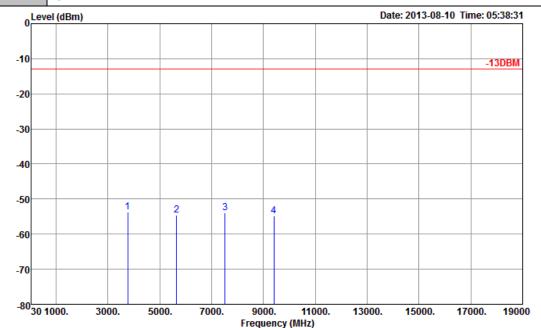
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-55.63	-13	-42.63	-66.26	-56.28	0.57	3.37	V	Pass
2510	-50.80	-13	-37.80	-70.34	-53.03	0.78	5.16	V	Pass
3346	-59.07	-13	-46.07	-70.90	-62.71	0.87	6.66	V	Pass
4182	-59.42	-13	-46.42	-74.64	-64.01	0.97	7.71	V	Pass

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEONE Page Number : 86 of 95 Report Issued Date: Aug. 20, 2013

Report No.: FG380112

Band :	WCDMA Band II	Temperature :	23~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Horizontal
_			

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



Site : 03CH01-SZ

Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL Project : (FG) 380112

Project : (FG) 380 Mode : Mode 3 Plane : Y

IMEI : 353919026113708

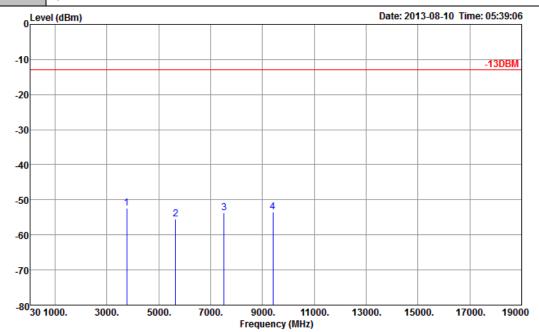
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-53.80	-13	-40.80	-65.95	-60.54	1.28	8.02	Н	Pass
5640	-54.68	-13	-41.68	-72.67	-63.10	1.58	10.00	Н	Pass
7520	-53.95	-13	-40.95	-75.89	-64.27	1.78	12.10	Н	Pass
9400	-54.77	-13	-41.77	-76.89	-65.55	2.22	13.00	Н	Pass

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEONE Page Number : 87 of 95
Report Issued Date : Aug. 20, 2013

Report No.: FG380112

Band :	WCDMA Band II	Temperature :	23~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	49~52%
Test Engineer :	Gavin Zhang	Polarization :	Vertical
_	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		00 15 1 1 11 11

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



Site

: 03CH01-SZ : -13DBM HF_EIRP_V_130101 VERTICAL : (FG) 380112 Condition

Project Mode : Mode 3 Plane

IMEI 353919026113708

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	-52.46	-13	-39.46	-67.49	-59.20	1.28	8.02	V	Pass
5640	-55.41	-13	-42.41	-72.49	-63.83	1.58	10	V	Pass
7520	-53.71	-13	-40.71	-75.96	-64.03	1.78	12.1	V	Pass
9400	-53.46	-13	-40.46	-77.08	-64.24	2.22	13	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

See list of measuring instruments 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.
- 2. 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.
- With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized 3. 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.

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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		EDGE	class 8	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	10	+0.01	-13	-0.02	
-20	10	+0.01	-11	-0.01	
-10	9	+0.01	-12	-0.01	
0	-8	-0.01	10	+0.01	
10	8	+0.01	9	+0.01	
20	8	+0.01	8	+0.01	PASS
30	-9	-0.01	-10	-0.01	
40	9	+0.01	12	+0.01	
50	10	+0.01	11	+0.01	
55	11	+0.01	13	+0.02	

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

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

	GS	SM	EDGE	class 8		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	-22	-0.01	-19	-0.01		
-20	-21	-0.01	-18	-0.01		
-10	-19	-0.01	-20	-0.01		
0	-18	-0.01	-22	-0.01		
10	-20	-0.01	-21	-0.01		
20	-18	-0.01	-26	-0.01	PASS	
30	-18	-0.01	-24	-0.01		
40	-19	-0.01	23	+0.01		
50	-22	-0.01	-21	-0.01		
55	-24	-0.01	20	+0.01		

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Band :	WCDMA Band V	Channel:	4182
Limit (ppm) :	2.5	Frequency:	836.4 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	9	+0.01	
-20	9	+0.01	
-10	8	+0.01	
0	7	+0.01	
10	8	+0.01	
20	5	+0.01	PASS
30	6	+0.01	
40	6	+0.01	
50	7	+0.01	
55	7	+0.01	

Band:	WCDMA Band II	Channel:	9400
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	RMC 1		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	12	+0.01	
-20	10	+0.01	
-10	11	+0.01	
0	-10	-0.01	
10	-8	+0.00	
20	-8	+0.00	PASS
30	-11	-0.01	
40	-9	+0.00	
50	10	+0.01	
55	-10	-0.01	

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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
		3.8	8	+0.01		
	GSM	BEP	8	+0.01		
GSM 850		4.2	9	+0.01		
CH189		3.8	8	+0.01		
	EDGE class 8	BEP	-8	-0.01		
	Class 0	4.2	10	+0.01		
	GSM EDGE class 8	3.8	-18	-0.01		
		BEP	-19	-0.01		
GSM 1900		4.2	-21	-0.01	0.5	D4.00
CH661		3.8	-26	-0.01	2.5	PASS
		BEP	-24	-0.01		
		4.2	-25	-0.01		
		3.8	5	+0.01		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	-6	-0.01		
C114102		4.2	6	+0.01		
14/OD144 D		3.8	-8	+0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	BEP	8	+0.01		
CI 19400	12.211049	4.2	-10	-0.01		

Note:

- Normal Voltage = 3.8V.
 Battery End Point (BEP) = 3.5 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	Aug. 01, 2013~ Aug. 13, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	N/A	Mar. 28, 2013	Aug. 01, 2013~ Aug. 13, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	N/A	Mar. 28, 2013	Aug. 01, 2013~ Aug. 13, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	N/A	Mar. 28, 2013	Aug. 01, 2013~ Aug. 13, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 28, 2013	Aug. 10, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Aug. 10, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Aug. 10, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Nov. 03, 2012	Aug. 10, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0 ~ 360 degree	N/A	Aug. 10, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m - 4 m	N/A	Aug. 10, 2013	N/A	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3GHz Gain 30dB	Mar. 28, 2013	Aug. 10, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Aug. 10, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF -Horn	Schwarzbeck	BBHA9170	BBHA917024 9	14GHz~40GHz	Nov. 23, 2012	Aug. 10, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Aug. 22, 2012	Aug. 01, 2013~ Aug. 13, 2013	Aug. 21, 2013	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000MH z	N/A	Aug. 01, 2013~ Aug. 13, 2013	N/A	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Aug. 01, 2013~ Aug. 13, 2013	N/A	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Aug. 01, 2013~ Aug. 13, 2013	N/A	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	2.54
Confidence of 95% (U = 2Uc(y))	2.54

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	4.72
Confidence of 95% (U = 2Uc(y))	4.72

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