FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life Play 2

FCC ID : YHLBLULIFEPLAY2

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 21, 2014 and testing was completed on Aug. 20, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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

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Testing Laboratory

Report No.: FG462105

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG462105	Rev. 01	Initial issue of report	Aug. 22, 2014

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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	1
3.2	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	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(b) §24.238(b)	Occupied Bandwidth	N/A	PASS	-
3.5	\$2.1051 Band Edge \$22.917(a) \$24.238(a) Measurement		< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	\$2.1051 Conducted Spurious \$22.917(a) \$24.238(a)		< 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 21.61 dB at 1697.600 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

Gionee Communication Equipment Co.,Ltd.

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

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1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Mobile Phone					
Brand Name	BLU					
Model Name	Life Play 2					
FCC ID	YHLBLULIFEPLAY2					
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE					
HW Version	LIFE PLAY 2_MAINBOARD_P2					
SW Version	LIFE PLAY 2_0202_V8360					
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 subjective to this standard

Product Specification 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 : 32.93 dBm GSM1900 : 29.68 dBm WCDMA Band V : 23.75 dBm WCDMA Band II : 22.75 dBm				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (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 (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.6715	0.04 ppm	247KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1421	0.03 ppm	249KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0791	0.01 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	1.5938	0.03 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.6008	0.02 ppm	249KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.3422	0.01 ppm	4M18F9W

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
Test Site Location		District, Shenzhen, Gua	nahe River west, Fengzeyuan ngdong, P.R.C.			
Test Site No.	Sporton Site No. FC		FCC Registration No.			
Test Site No.	TH01-SZ	03CH01-SZ	831040			

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

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1.8 Applicable 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:

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

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

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes								
Band	Radiated TCs	Conducted TCs						
CCM 950	■ 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: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM mode for GMSK modulation, EDGE multi-slot class 8 mode for 8PSK modulation,

RMC 12.2Kbps mode for WCDMA band V, RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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Conducted Power Measurement Results:

SIM1:

Conducted Power (*Unit: dBm)							
Band	Band GSM850				GSM1900		
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	32.92	<mark>32.93</mark>	32.88	29.67	<mark>29.68</mark>	29.64	
GPRS class 8	32.91	32.92	32.87	29.66	29.67	29.61	
GPRS class 10	31.89	31.90	31.85	28.62	28.64	28.60	
GPRS class 11	29.78	29.82	29.73	26.50	26.54	26.58	
GPRS class 12	28.77	28.78	28.72	25.42	25.52	25.56	
EGPRS class 8	26.51	26.49	26.55	25.35	25.31	25.09	
EGPRS class 10	25.28	25.19	25.31	24.16	24.12	23.97	
EGPRS class 11	23.01	23.07	23.17	22.03	21.95	21.77	
EGPRS class 12	21.92	21.89	21.97	20.87	20.83	20.62	

Conducted Power (*Unit: dBm)							
Band	WCDMA 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	
AMR 12.2K	23.74	23.58	23.64	22.52	22.74	22.58	
RMC 12.2K	<mark>23.75</mark>	23.60	23.65	22.53	<mark>22.75</mark>	22.60	
HSDPA Subtest-1	22.90	22.77	22.87	21.63	21.87	21.61	
HSDPA Subtest-2	22.84	22.76	22.86	21.64	21.86	21.59	
HSDPA Subtest-3	22.36	22.26	22.40	21.17	21.39	21.15	
HSDPA Subtest-4	22.37	22.28	22.40	21.16	21.39	21.12	
HSUPA Subtest-1	20.88	20.80	20.92	19.69	19.91	19.70	
HSUPA Subtest-2	20.82	20.76	20.92	19.65	19.89	19.70	
HSUPA Subtest-3	21.86	21.79	21.92	20.61	20.85	20.69	
HSUPA Subtest-4	20.35	20.24	20.38	19.12	19.34	19.18	
HSUPA Subtest-5	22.8	22.8	22.89	21.6	21.9	21.7	

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SIM2:

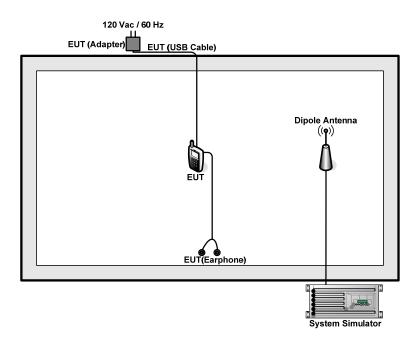
Conducted Power (*Unit: dBm)							
Band	Band GSM850				GSM1900		
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	32.91	<mark>32.92</mark>	32.87	29.65	<mark>29.66</mark>	29.62	
GPRS class 8	32.90	32.91	32.86	29.63	29.64	29.59	
GPRS class 10	31.87	31.89	31.84	28.58	28.59	28.58	
GPRS class 11	29.76	29.82	29.71	26.48	26.52	26.50	
GPRS class 12	28.76	28.77	28.72	25.41	25.49	25.48	
EGPRS class 8	26.44	26.43	26.52	25.31	25.28	25.06	
EGPRS class 10	25.24	25.22	25.26	24.18	24.11	23.92	
EGPRS class 11	23.01	23.02	23.10	22.00	21.94	21.75	
EGPRS class 12	21.91	21.87	21.96	20.86	20.83	20.61	

	C	onducted Po	wer (*Unit: d	Bm)		
Band	W	CDMA Band	٧	W	CDMA Band	H
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6
AMR 12.2K	23.72	23.58	23.62	22.50	22.70	22.58
RMC 12.2K	<mark>23.73</mark>	23.59	23.63	22.51	<mark>22.72</mark>	22.59
HSDPA Subtest-1	22.89	22.75	22.85	21.58	21.78	21.54
HSDPA Subtest-2	22.85	22.75	22.87	21.59	21.79	21.52
HSDPA Subtest-3	22.35	22.24	22.40	21.12	21.32	21.09
HSDPA Subtest-4	22.37	22.27	22.36	21.12	21.31	21.06
HSUPA Subtest-1	20.86	20.78	20.90	19.69	19.87	19.67
HSUPA Subtest-2	20.80	20.86	20.90	19.61	19.85	19.64
HSUPA Subtest-3	21.85	21.86	21.91	20.61	20.83	20.61
HSUPA Subtest-4	20.40	20.27	20.38	19.09	19.33	19.13
HSUPA Subtest-5	22.8	22.8	22.87	21.6	21.8	21.6

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

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.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	System Simulator	Agilent	E5515C	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 RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 7.5 dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$7.5 + 10 = 17.5$$
 (dB)

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

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 the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 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	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)	32.92	32.93	32.88	26.51	26.49	26.55	23.75	23.60	23.65		
Conducted Power (Watts)	1.96	1.96	1.94	0.45	0.45	0.45	0.24	0.23	0.23		

	PCS Band										
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)				
Channel	512 661 810 512 661 810 (Low) (Mid) (High) (Low) (Mid) (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)	29.67	29.68	29.64	25.35	25.31	25.09	22.53	22.75	22.60		
Conducted Power (Watts)	0.93	0.93	0.92	0.34	0.34	0.32	0.18	0.19	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.

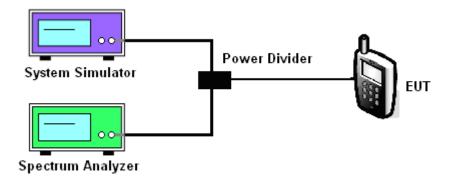
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 5.7.1.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector on spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector on 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 has synchronized with the spectrum analyzer.
- 4. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. 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	GSM1900 (GSM) GSM			GSM19	GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 9400 953 (Low) (Mid) (Hig			
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6	
Peak-to-Average Ratio (dB)	0.30	0.31	0.35	2.91	2.91	2.69	3.01	3.01	2.46	

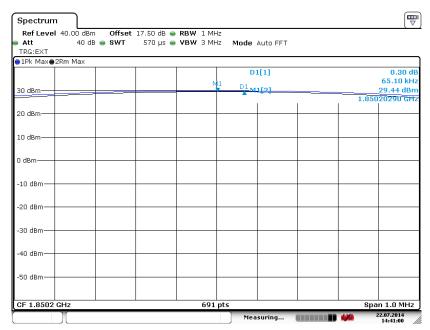
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3.2.6 Test Result (Plots) of Peak-to-Average Ratio

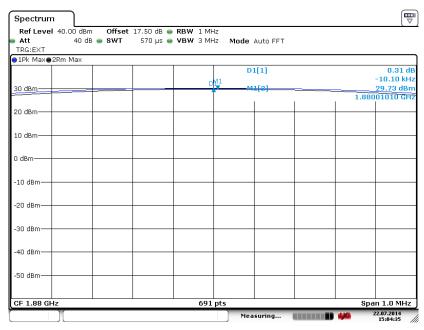
Band:	GSM 1900	Test Mode :	GSM Link (GMSK)

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



Date: 22.JUL.2014 14:41:00

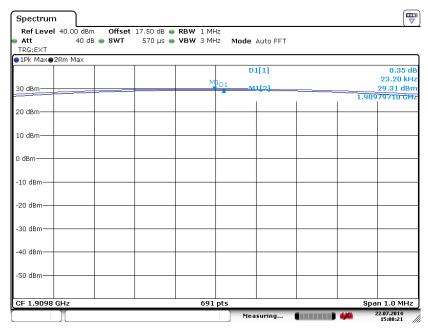
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 22.JUL.2014 15:04:36

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

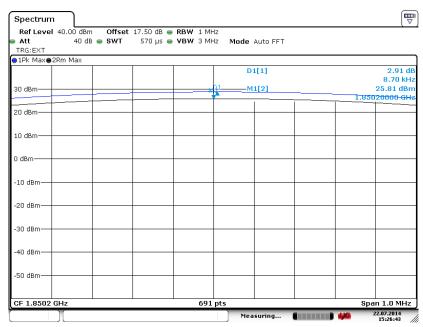


Date: 22.JUL.2014 15:08:22

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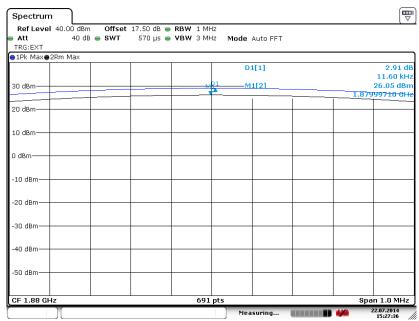
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 22.JUL.2014 15:26:44

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

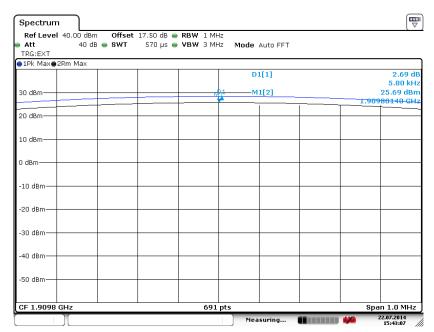


Date: 22.JUL.2014 15:27:36

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



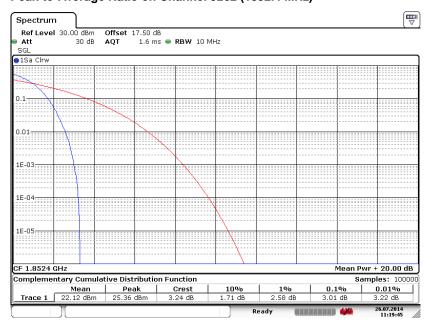
Date: 22.JUL.2014 15:43:07

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Band:

Test Mode:

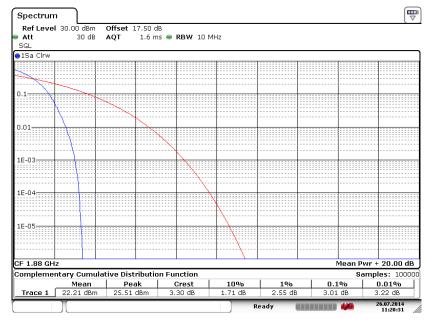
Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



Date: 26.JUL.2014 11:19:45

WCDMA Band II

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



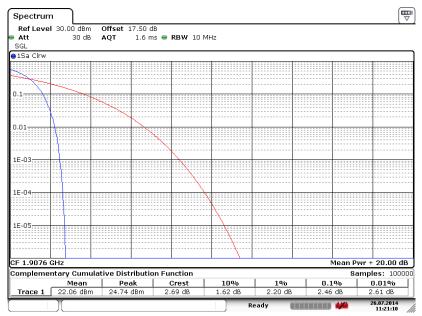
Date: 26.JUL.2014 11:20:32

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RMC 12.2Kbps Link (QPSK)

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



Date: 26.JUL.2014 11:21:10

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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.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

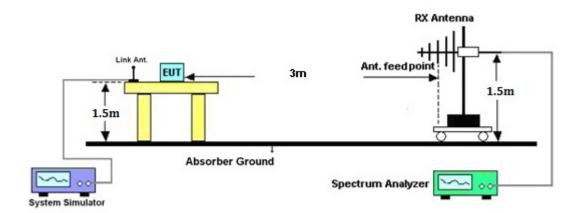
- The testing follows FCC KDB 971168 v02r01 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
- 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at the same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP 2.15.

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3.3.4 Test Setup



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3.3.5 Test Result of ERP

		GSM850 (G	SSM) Radiated	Power ERP		
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-18.78	-48.12	0.00	-1.08	28.26	0.6693
836.40	-19.08	-48.28	0.00	-0.93	28.27	0.6715
848.80	-19.66	-48.35	0.00	-0.76	27.93	0.6206
		Ve	ertical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
, ,	, ,	, ,	, ,	, ,	, ,	, ,
824.20	-31.05	-47.97	0.00	-1.08	15.84	0.0384
836.40	-31.22	-48.01	0.00	-0.93	15.86	0.0385
848.80	-31.18	-48.05	0.00	-0.76	16.11	0.0408

	GSM850 (EDGE class 8) Radiated Power ERP									
		Ног	rizontal Polariza	tion						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)				
824.20	-25.53	-48.12	0.00	-1.08	21.51	0.1415				
836.40	-25.83	-48.28	0.00	-0.93	21.52	0.1419				
848.80	-26.06	-48.35	0.00	-0.76	21.53	0.1421				
		Ve	ertical Polarizati	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)				
824.20	-37.44	-47.97	0.00	-1.08	9.45	0.0088				
836.40	-37.76	-48.01	0.00	-0.93	9.32	0.0085				
848.80	-37.48	-48.05	0.00	-0.76	9.81	0.0096				

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP										
	Horizontal Polarization										
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)					
826.40	-28.22	-48.12	0.00	-1.08	18.82	0.0763					
836.40	-28.64	-48.28	0.00	-0.93	18.71	0.0743					
846.60	-28.61	-48.35	0.00	-0.76	18.98	0.0791					
		Ve	ertical Polarization	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)					
826.40	-40.12	-47.97	0.00	-1.08	6.77	0.0047					
836.40	-40.56	-48.01	0.00	-0.93	6.52	0.0045					
846.60	-40.30	-48.05	0.00	-0.76	6.99	0.0050					

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3.3.6 Test Result of EIRP

		GSM1900 (C	SSM) Radiated	Power EIRP		
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-22.10	-51.88	0.00	1.96	31.74	1.4926
1880.00	-23.18	-52.99	0.00	2.00	31.81	1.5163
1909.80	-24.43	-54.28	0.00	1.98	31.83	1.5236
		Ve	ertical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-22.07	-52.13	0.00	1.96	32.02	1.5938
1880.00	-23.46	-53.17	0.00	2.00	31.71	1.4821
1909.80	-24.16	-54.13	0.00	1.98	31.95	1.5671

	GSM1900 (EDGE class 8) Radiated Power EIRP									
		Hoi	rizontal Polariza	tion						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-26.44	-51.88	0.00	1.96	27.40	0.5492				
1880.00	-27.20	-52.99	0.00	2.00	27.79	0.6008				
1909.80	-28.60	-54.28	0.00	1.98	27.66	0.5833				
		Ve	ertical Polarizati	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-26.41	-52.13	0.00	1.96	27.68	0.5857				
1850.20	-26.46	-52.13	0.00	1.96	27.63	0.5789				
1880.00	-27.39	-53.17	0.00	2.00	27.78	0.5999				

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	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	-28.73	-51.88	0.00	1.96	25.11	0.3247					
1880.00	-29.89	-52.99	0.00	2.00	25.10	0.3235					
1907.60	-31.24	-54.28	0.00	1.98	25.02	0.3175					
		Ve	ertical Polarizati	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)					
1852.40	-28.75	-52.13	0.00	1.96	25.34	0.3422					
1880.00	-30.09	-53.17	0.00	2.00	25.08	0.3220					
1907.60	-30.92	-54.13	0.00	1.98	25.19	0.3301					

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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.

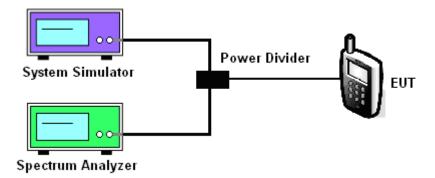
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 4.2.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
- 5. 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	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
99% OBW (kHz)	244.57	247.47	246.02	249.13	241.68	244.57
26dB BW (kHz)	308.20	309.70	306.80	303.90	302.50	308.20

PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)		
Channal	512	661	810	512	661	810
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	246.02	246.02	246.02	244.57	247.47	248.91
26dB BW (kHz)	299.60	306.80	312.60	309.70	308.20	303.90

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	4.17	4.18		
26dB BW (MHz)	4.69	4.68	4.68		

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)	4.16	4.18	4.18		
26dB BW (MHz)	4.69	4.68	4.70		

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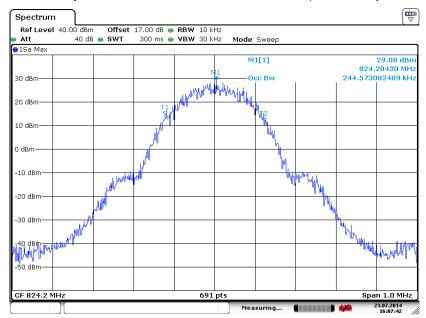
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3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

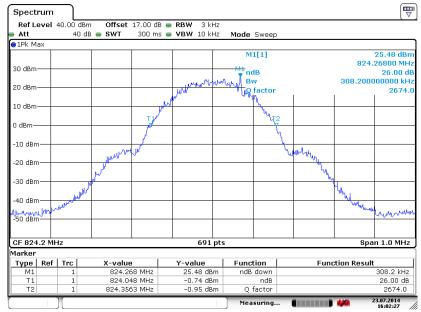
Band: GSM 850 Test Mode: GSM Link (GMSK)

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



Date: 23.JUL.2014 16:07:43

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

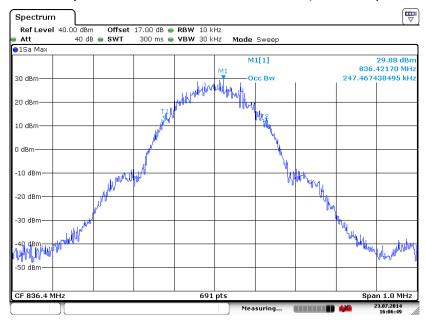


Date: 23.JUL.2014 16:02:27

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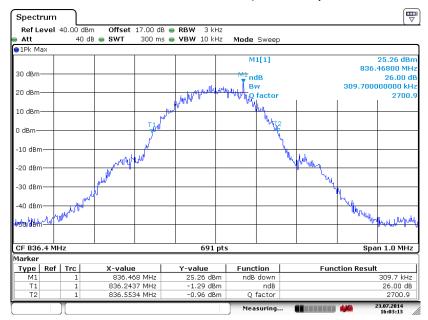
Report No. : FG462105

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



Date: 23.JUL.2014 16:06:49

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

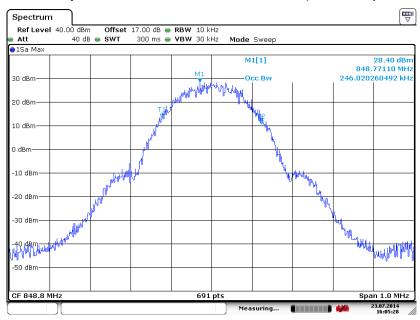


Date: 23.JUL.2014 16:03:13

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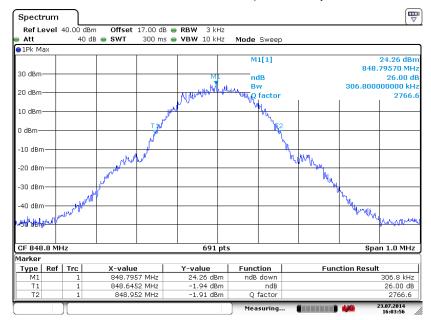
FCC RF Test Report

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



Date: 23.JUL.2014 16:05:28

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



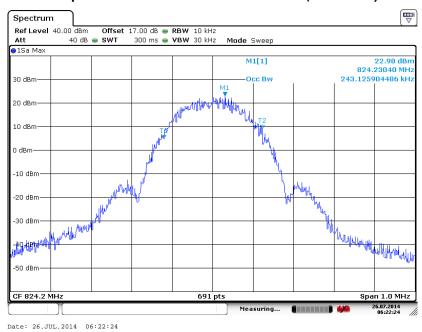
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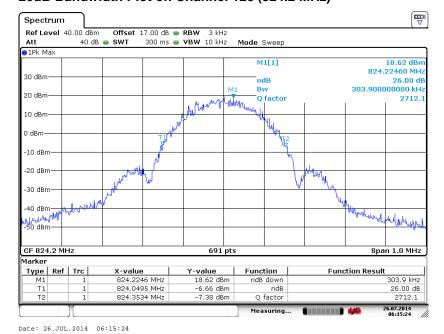
Report No. : FG462105

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

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



26dB Bandwidth Plot on Channel 128 (824.2 MHz)



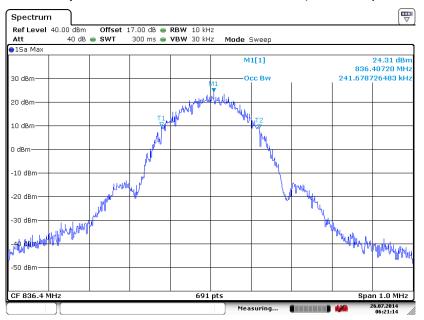
SPORTON INTERNATIONAL (SHENZHEN) INC

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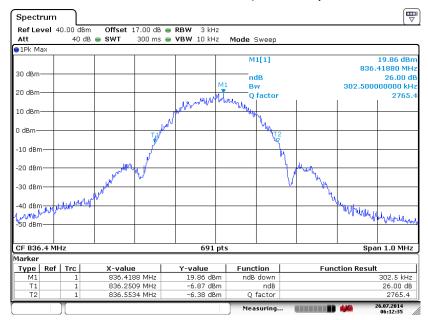
FCC RF Test Report

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



Date: 26.JUL.2014 06:21:14

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

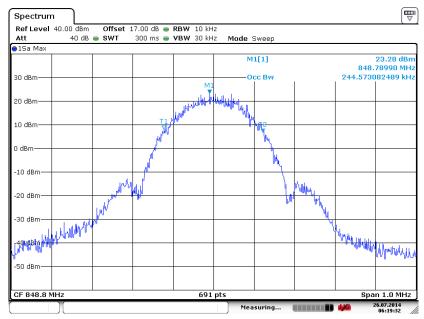


Date: 26.JUL.2014 06:12:35

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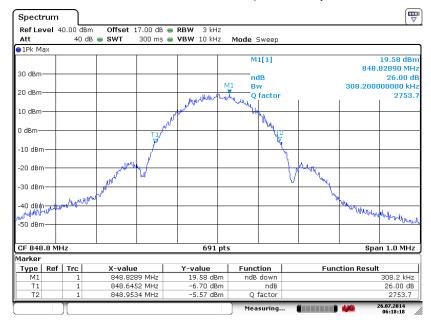
Report No. : FG462105

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



Date: 26.JUL.2014 06:19:32

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



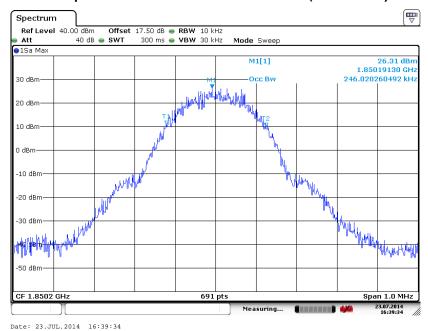
Date: 26.JUL.2014 06:18:18

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 37 of 106 Report Issued Date: Aug. 22, 2014

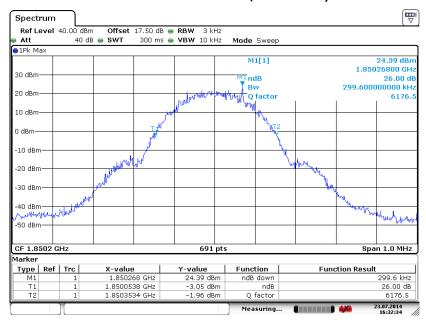
Report No. : FG462105

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

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



26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

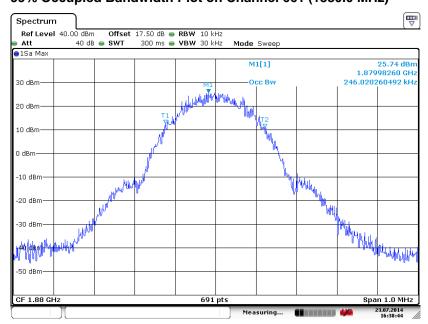


Date: 23.JUL.2014 16:32:34

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 38 of 106 Report Issued Date : Aug. 22, 2014

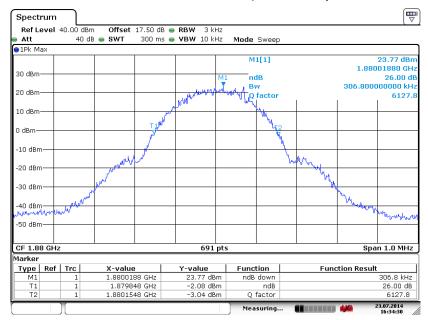
Report No. : FG462105

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



Date: 23.JUL.2014 16:38:44

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

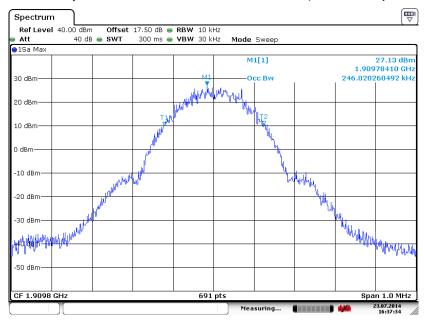


Date: 23.JUL.2014 16:34:30

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 39 of 106 Report Issued Date : Aug. 22, 2014

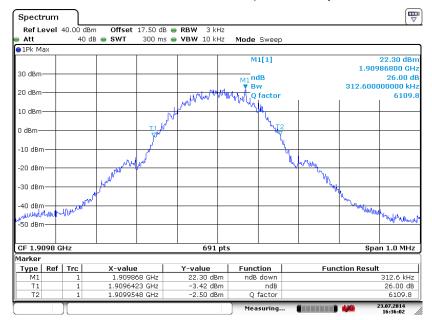
Report No. : FG462105

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



Date: 23.JUL.2014 16:37:34

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



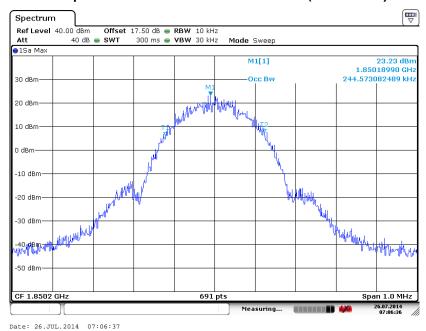
Date: 23.JUL.2014 16:36:02

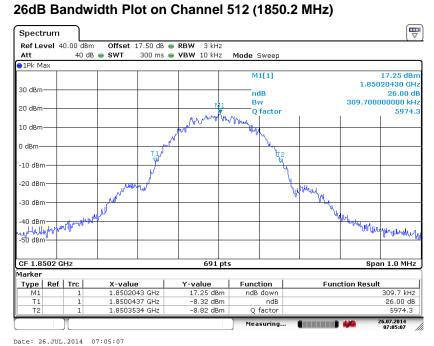
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Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



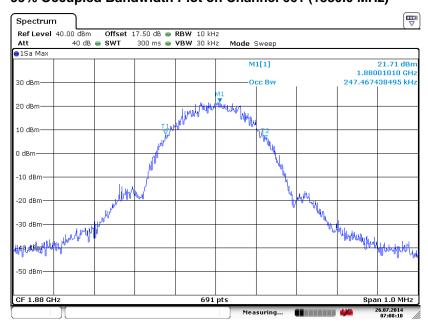


Date: 26.00L.2014 07.05.07

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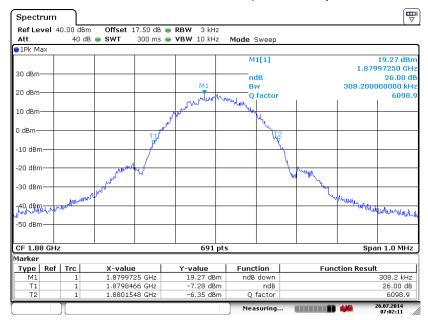
Report No. : FG462105

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



Date: 26.JUL.2014 07:08:10

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



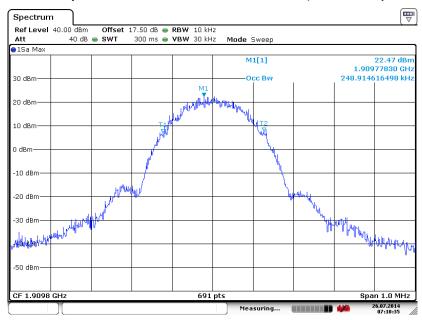
Date: 26.JUL.2014 07:02:11

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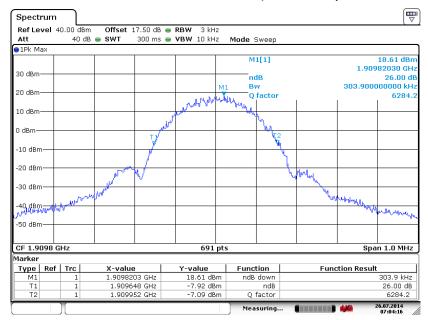
FCC RF Test Report

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



Date: 26.JUL.2014 07:10:35

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



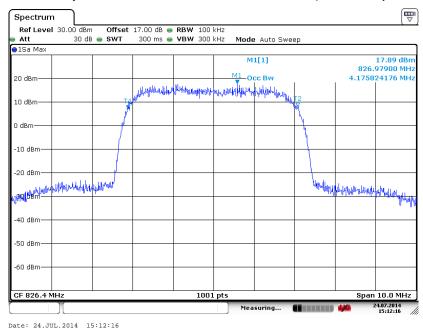
Date: 26.JUL.2014 07:04:16

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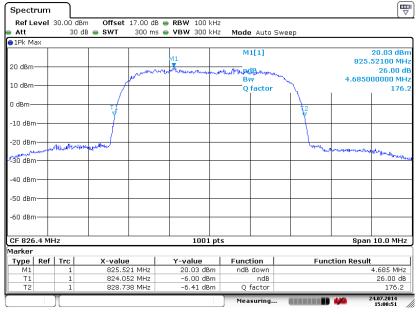
Report No. : FG462105

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

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



26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



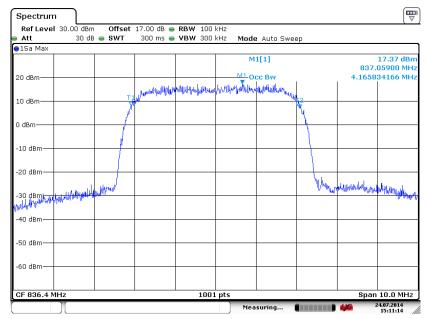
Date: 24.JUL.2014 15:00:51

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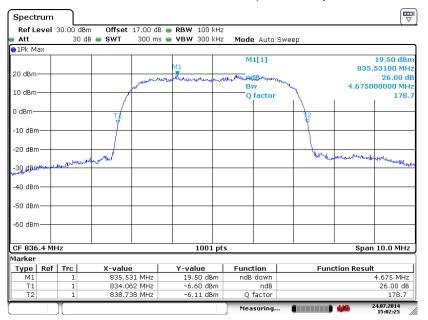
FCC RF Test Report

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



Date: 24.JUL.2014 15:11:15

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)

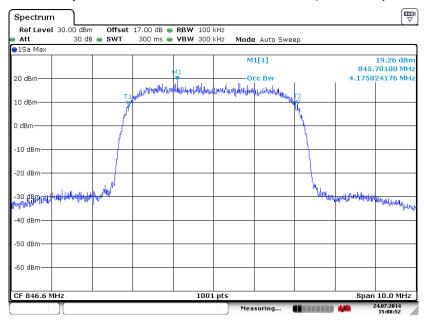


Date: 24.JUL.2014 15:02:25

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 45 of 106
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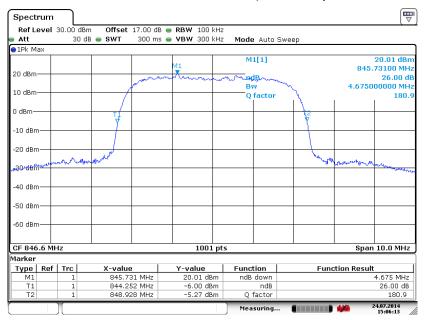
Report No. : FG462105

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



Date: 24.JUL.2014 15:08:53

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



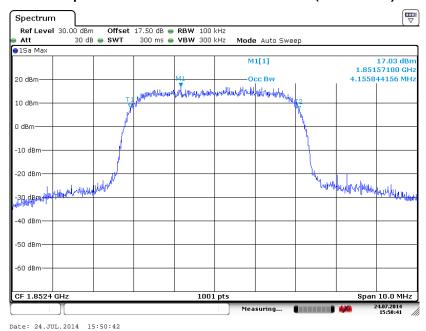
Date: 24.JUL.2014 15:06:13

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 46 of 106 Report Issued Date: Aug. 22, 2014

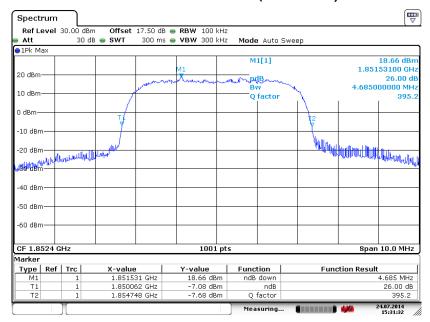
Report No. : FG462105

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

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



26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

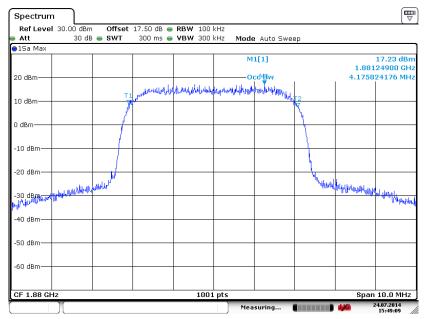


Date: 24.JUL.2014 15:31:32

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 47 of 106
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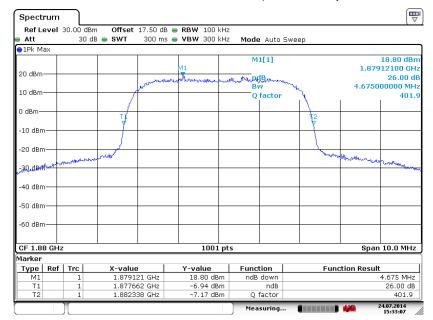
Report No. : FG462105

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



Date: 24.JUL.2014 15:49:09

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



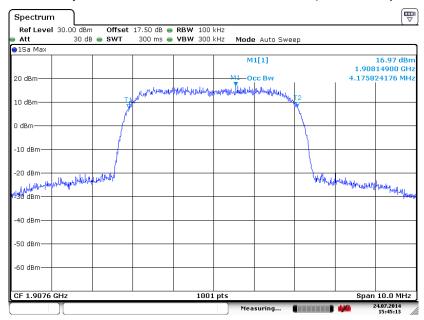
Date: 24.JUL.2014 15:33:07

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 48 of 106 Report Issued Date: Aug. 22, 2014

Report No. : FG462105

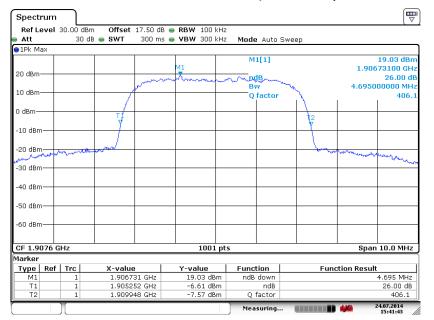
FCC RF Test Report

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



Date: 24.JUL.2014 15:45:13

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 24.JUL.2014 15:41:43

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Report No. : FG462105

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.

Report No.: FG462105

3.5.2 Measuring Instruments

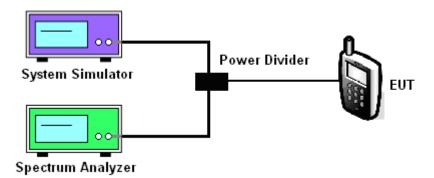
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 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.

3.5.4 Test Setup

<Conducted Band Edge >



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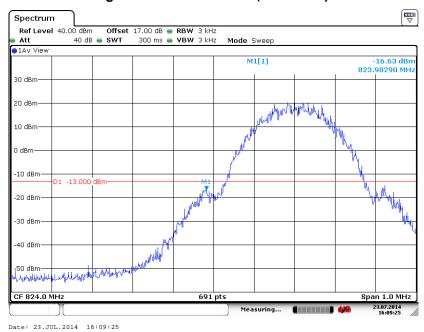
Report Issued Date: Aug. 22, 2014

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2

3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM (GMSK)	Link
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz	<u> </u>
Band Edge :	-16.49dBm	Measurement Value :	-16.63dBr	n

Lower Band Edge Plot on Channel 128 (824.2 MHz)

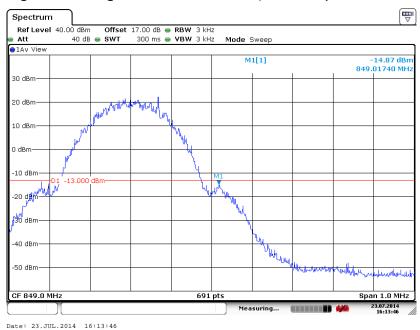


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	GSM	Link
			(GMSK)	
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz	
Band Edge :	-14.73dBm	Measurement Value :	-14.87dBm	

Higher Band Edge Plot on Channel 251 (848.8 MHz)



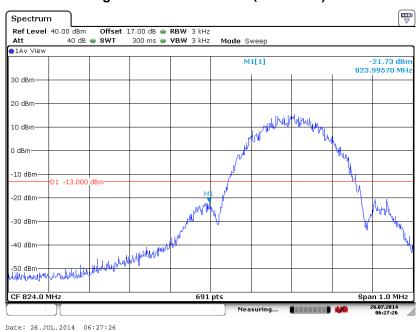
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE cla	ss 8
			Link (8PSK))
Correction Factor :	0.12 dB	Maximum 26dB Bandwidth :	0.308MHz	
Band Edge :	-21.61dBm	Measurement Value :	-21.73dBm	

Lower Band Edge Plot on Channel 128 (824.2 MHz)



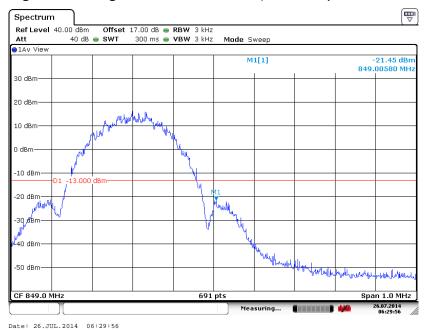
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE	class	8
			Link (8P	SK)	
Correction Factor :	0.12 dB	Maximum 26dB Bandwidth :	0.308MI	Ηz	
Band Edge :	-21.33dBm	Measurement Value :	-21.45dl	Bm	

Higher Band Edge Plot on Channel 251 (848.8 MHz)

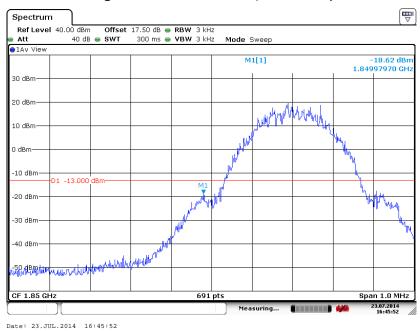


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM	Link
			(GMSK)	
Correction Factor :	0.18dB	Maximum 26dB Bandwidth :	0.313MHz	
Band Edge :	-18.44dBm	Measurement Value :	-18.62dBm	1

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

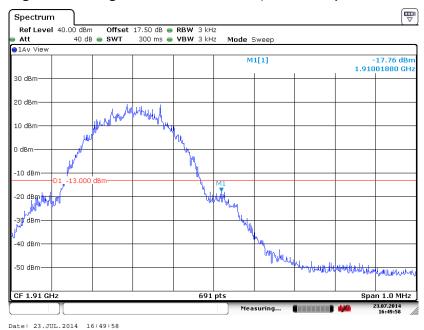


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM (GMSK)	Link
Correction Factor :	0.18dB	Maximum 26dB Bandwidth :	0.313MH	Z
Band Edge :	-17.58dBm	Measurement Value :	-17.76dB	m

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

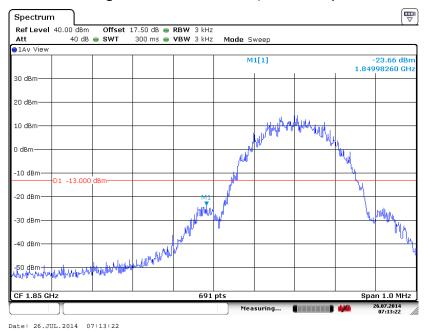


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900 Test Mode :	EDGE class 8 Link	
Dana .		rest mode :	(8PSK)
Correction Factor :	0.14 dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-23.52dBm	Measurement Value :	-23.66dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

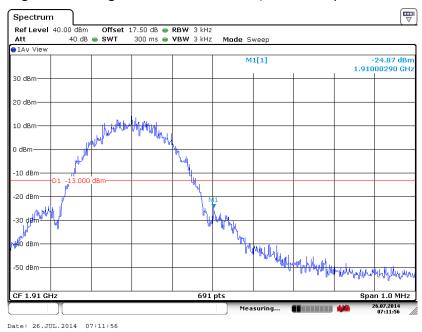


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14 dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-24.73dBm	Measurement Value :	-24.87dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



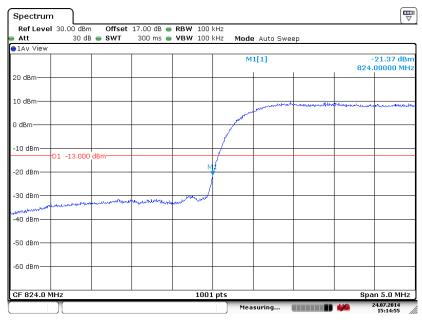
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.29 dB	Maximum 26dB Bandwidth :	4.690MHz
Band Edge :	-24.66dBm	Measurement Value :	-21.37dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)

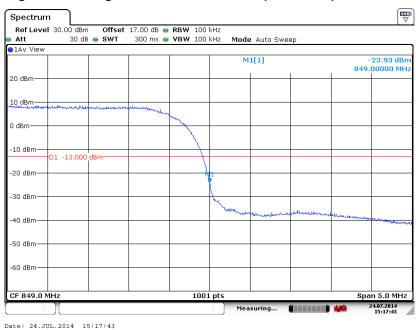


- Date: 24.JUL.2014 15:14:56
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
			(QPSK)
Correction Factor :	-3.29 dB	Maximum 26dB Bandwidth :	4.690MHz
Band Edge :	-27.22dBm	Measurement Value :	-23.93dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)

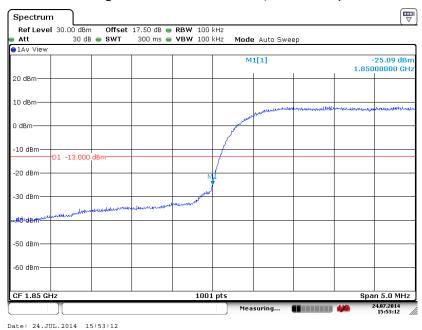


- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
			(QPSK)
Correction Factor :	-3.28 dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-28.37dBm	Measurement Value :	-25.09dBm

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



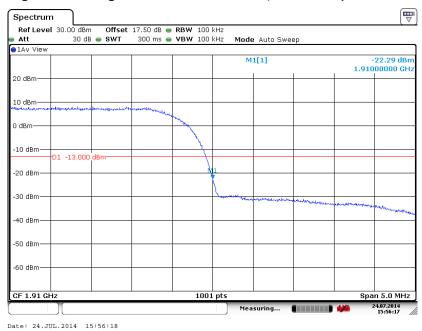
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
			(QPSK)
Correction Factor :	-3.28 dB	Maximum 26dB Bandwidth :	4.700MHz
Band Edge :	-25.57dBm	Measurement Value :	-22.29dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



- 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

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

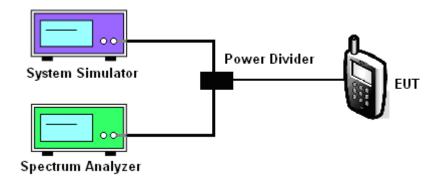
3.6.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. 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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3.6.4 Test Setup

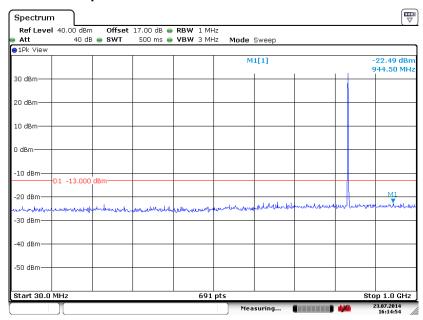


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3.6.5 Test Result (Plots) of Conducted Spurious Emission

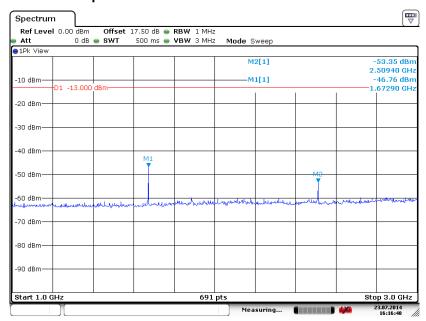
Band:	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 23.JUL.2014 16:14:54

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

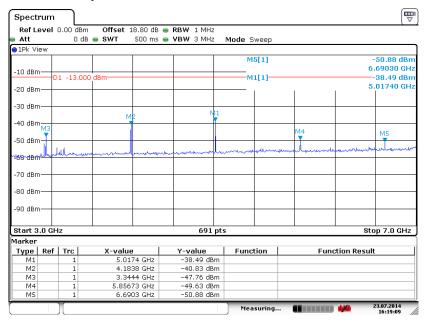


Date: 23.JUL.2014 16:16:48

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 65 of 106
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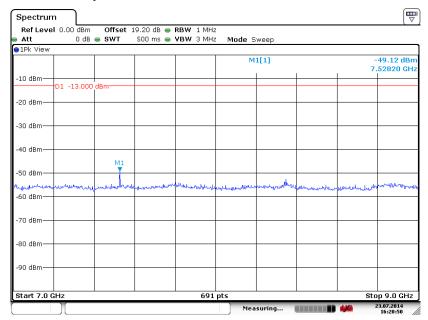
Report No.: FG462105

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 23.JUL.2014 16:19:09

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



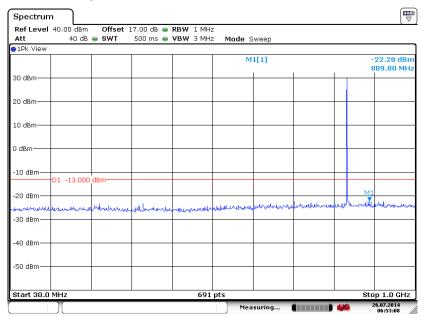
Date: 23.JUL.2014 16:20:50

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 66 of 106
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Report No. : FG462105

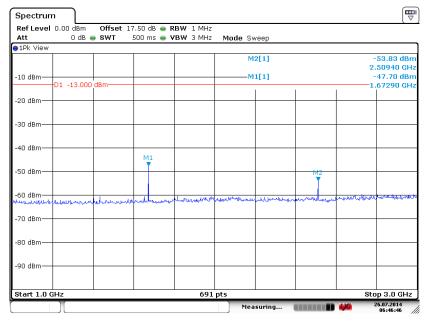
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 26.JUL.2014 06:53:08

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

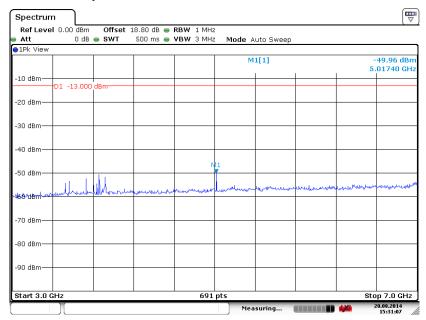


Date: 26.JUL.2014 06:46:46

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 67 of 106
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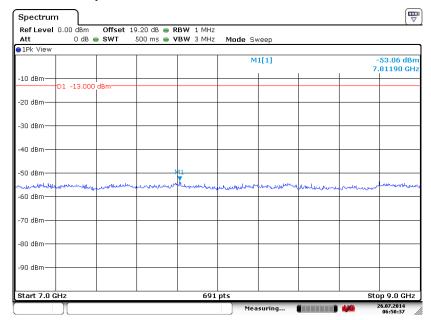
Report No.: FG462105

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 20.AUG.2014 15:31:06

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



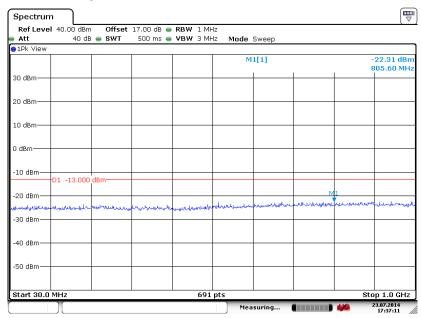
Date: 26.JUL.2014 06:50:38

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 68 of 106 Report Issued Date : Aug. 22, 2014

Report No.: FG462105

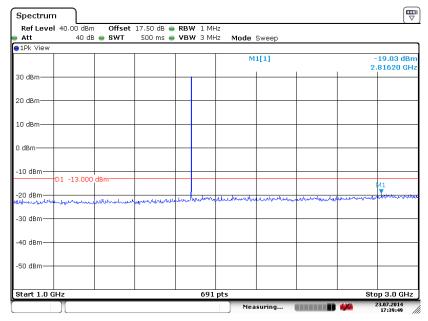
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 23.JUL.2014 17:37:11

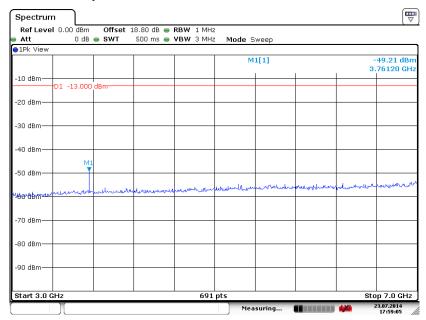
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 23.JUL.2014 17:39:49

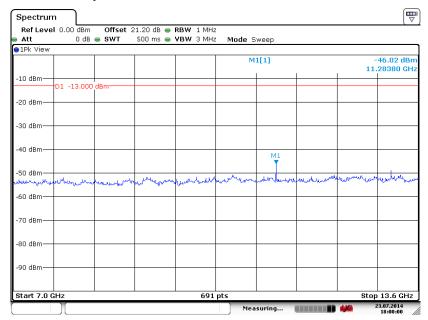
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 23.JUL.2014 17:59:05

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

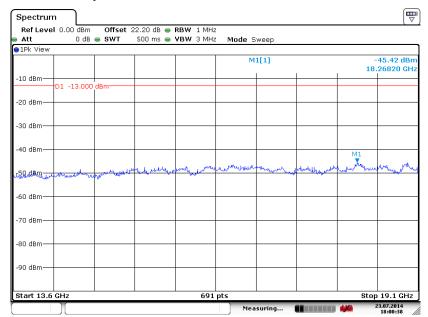


Date: 23.JUL.2014 18:00:00

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Report No.: FG462105

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

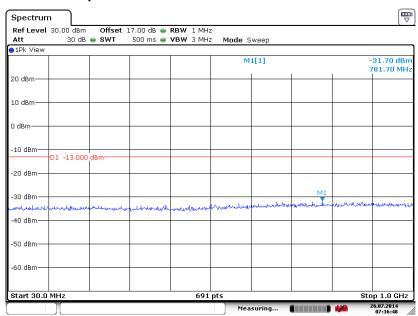


Date: 23.JUL.2014 18:00:38

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 71 of 106
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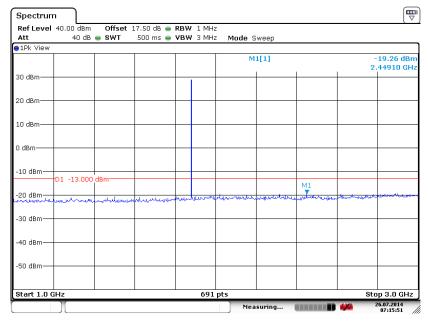
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 26.JUL.2014 07:16:48

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

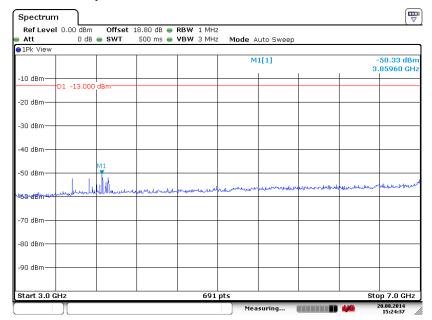


Date: 26.JUL.2014 07:15:51

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 72 of 106
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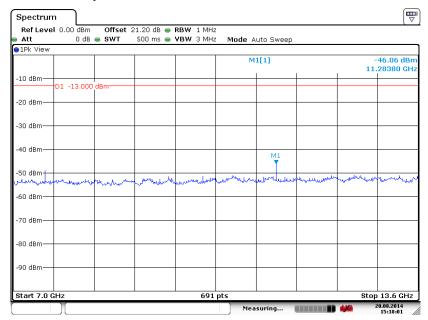
Report No.: FG462105

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 20.AUG.2014 15:24:37

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

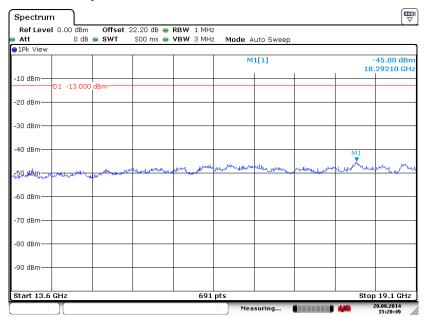


Date: 20.AUG.2014 15:18:00

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

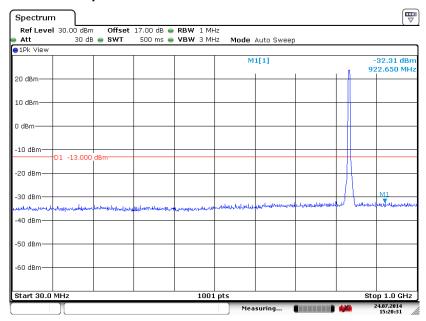


Date: 20.AUG.2014 15:20:49

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Page Number : 74 of 106
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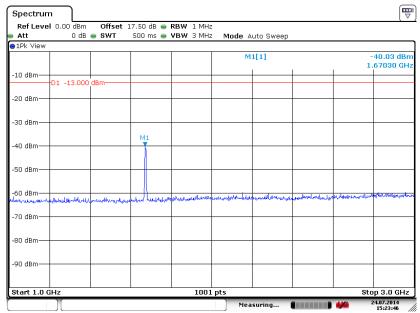
Band :	WCDMA	Band V		Channel:	CH4182
Took Mode .	RMC	12.2Kbps	Link	F	926 4 MLI -
Test Mode :	(QPSK)			Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 24.JUL.2014 15:20:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

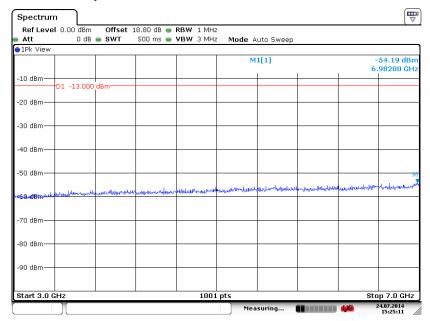


Date: 24.JUL.2014 15:23:46

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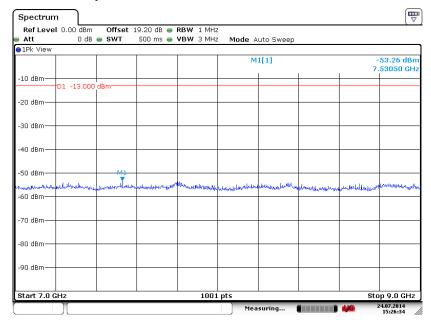
Report No.: FG462105

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 24.JUL.2014 15:25:11

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



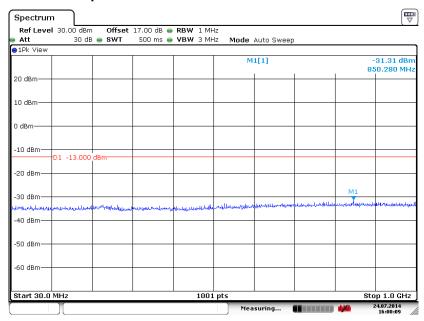
Date: 24.JUL.2014 15:26:35

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Report No.: FG462105

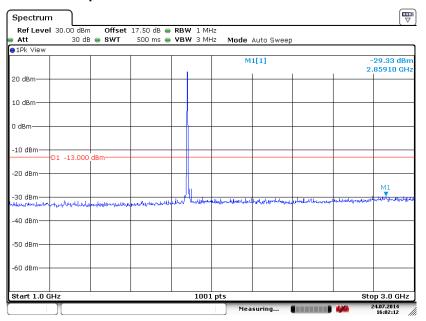
Band :	WCDMA	A Band II		Channel:	CH9400
Toot Made	RMC	12.2Kbps	Link	Eroguenov	1000 0 MU-
Test Mode :	(QPSK)			Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 24.JUL.2014 16:00:09

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

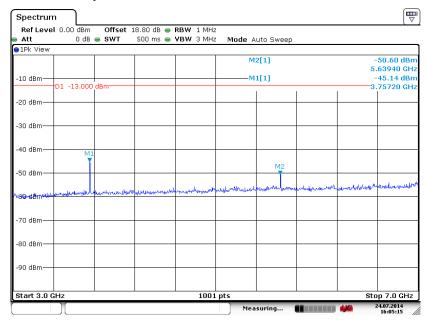


Date: 24.JUL.2014 16:02:12

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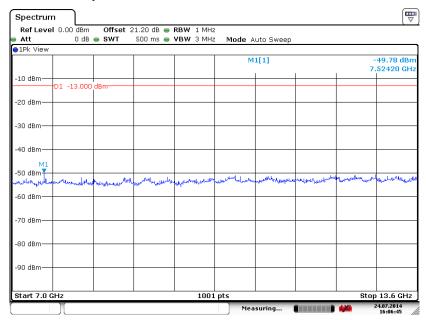
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 24.JUL.2014 16:05:16

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz

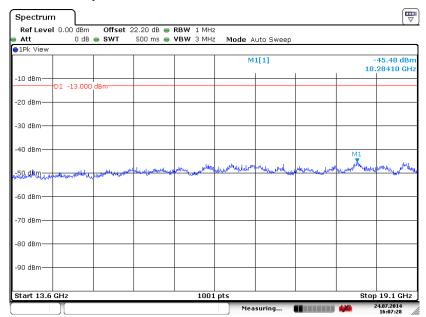


Date: 24.JUL.2014 16:06:46

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Report No.: FG462105

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 24.JUL.2014 16:07:28

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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.

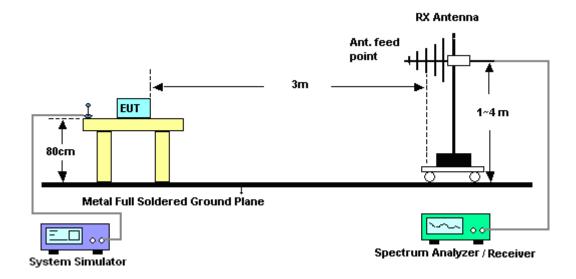
3.7.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r01 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. 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.

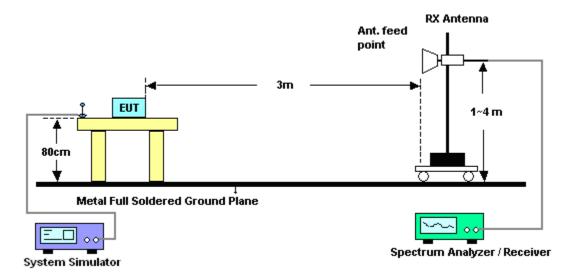
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3.7.4 Test Setup

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

Band :	G	SM850 fo	r CH128			Temperature	:	23~25°C			
Test Mode	: G	SM Link (GMSK)			Relative Hum	idity:	48~5	2%		
Test Engine	eer : L	eo				Polarization : Horizontal					
Remark :	S	purious er	rious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Result		
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
1648.4	-46.17	-13	-33.17	-62.39	-48.99	0.73	5.7	0	Н	Pass	
2472.6	-42.73	-13	-29.73	-66.71	-45.09	0.91	5.4	2	Н	Pass	
3296.8	-60.75	-13	-47.75	-71.62	-65.39	1.07	7.8	6	Н	Pass	

Band :	GS	M850 for	CH128			Temperature	: 2	23~25°C		
Test Mode :	GS	M Link (GMSK)			Relative Hum	idity: 4	8~52%		
Test Enginee	er: Ga	vin Zhan	g			Polarization : Vertical				
Remark :	Spi	purious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarization	Result	
			Limit	Reading	Power	loss	Gain	1		
(MHz) (dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)		
1648.4	-56.09	-13	-43.09	-67.24	-58.91	0.73	5.70	V	Pass	
2472.6	-49.34	-13	-36.34	-69.78	-51.70	0.91	5.42	V	Pass	

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Band :	C	SM850 for	CH189			Temperature	:	23~2	5°C	
Test Mode	: 0	SSM Link (GMSK)			Relative Hum	nidity:	48~5	2%	
Test Engine	eer : L	.eo				Polarization :		Horiz	ontal	
Remark :	S	Spurious en	ious emissions within 30-1000MHz were found more than 20dB below limit line.							
Frequency	ERP	P Limit Over SPA S.G		S.G.	TX Cable	able TX Antenna		Polarization	Result	
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1672	-39.10	0 -13	-26.10	-55.77	-42.07	0.88	6.0	0	Н	Pass
2510	-40.50	0 -13	-27.50	-64.73	-43.11	1.08	5.8	4	Н	Pass
3346	-61.0°	1 -13	-48.01	-71.61	-65.38	1.14	7.6	6	Н	Pass

Band :	G	SM850 for	r CH189			Temperature		23~25°C			
						•	_				
Test Mode	: G	SM Link (GMSK)			Relative Hum	idity:	48~52%			
Test Engine	eer : Le	eO				Polarization :		Vertical			
Remark :	Sp	urious emissions within 30-1000MHz were found more than 20dB below limit line.									
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	in			
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
1672	-50.39	-13	-37.39	-62.74	-53.36	0.88	6.0	0	V	Pass	
2510	-49.95	-13	-36.95	-69.87	-52.56	1.08	5.8	4	V	Pass	
3346	-60.75	-13	-47.75	-72.58	-65.12	1.14	7.6	6	V	Pass	

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Band :	GS	SM850 for	CH251			Temperature	:	23~25°C		
Test Mode	: GS	SM Link (GMSK)			Relative Hum	nidity :	48~5	2%	
Test Engine	er: Ga	vin Zhan	g			Polarization		Horiz	ontal	
Remark :	Sp	urious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	P Limit Over SPA S.		S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1697.6	-34.61	-13	-21.61	-51.81	-37.60	0.75	5.8	9	Н	Pass
2546.4	-38.69	-13	-25.69	-63.45	-41.40	1.12	5.9	8	Н	Pass
3395.2	-60.44	-13	-47.44	-71.64	-64.84	1.25	7.8	0	Н	Pass

Band :	G	SM850 for	· CH251			Temperature	:	23~25°C			
Test Mode :	G	SM Link (GMSK)			Relative Hum	nidity:	48~5	2%		
Test Engine	er: G	avin Zhan	g			Polarization :		Vertic	al		
Remark :	S	purious en	rious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	in			
(MHz) ((dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
1697.6	-41.55	-13	-28.55	-55.45	-44.54	0.75	5.8	9	V	Pass	
2546.4	-48.71	-13	-35.71	-69.44	-51.42	1.12	5.9	8	V	Pass	
3395.2	-59.46	-13	-46.46	-71.89	-63.86	1.25	7.8	0	V	Pass	

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Band :	GS	SM850 for	CH128			Temperature	:	23~25°C			
Test Mode	: E	OGE class	8 Link ((8PSK)		Relative Hum	nidity:	48~5	2%		
Test Engine	eer : Le	0				Polarization	ontal				
Remark :	Sp	urious emissions within 30-1000MHz were found more than 20dB below limit line.									
Frequency	ERP	P Limit Over SPA S				TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	in			
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
1648.4	-49.66	-13	-36.66	-64.91	-52.48	0.73	5.7	0	Н	Pass	
2472.6	-48.27	-13	-35.27	-70.48	-50.63	0.91	5.4	2	Н	Pass	
3296.8	-61.27	-13	-48.27	-72.14	-65.91	1.07	7.8	6	Н	Pass	

Band :	G	SM850 fo	· CH128			Temperature	:	23~25°C			
Test Mode :	E	DGE class	8 Link	(8PSK)		Relative Hum	idity:	48~52	2%		
Test Engine	er : L	.eo				Polarization :		Vertic	al		
Remark :	S	Spurious en	rious emissions within 30-1000MHz were found more than 20dB below limit line								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	n			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
1648.4	-55.05	5 -13	-42.05	-66.20	-57.87	0.73	5.7	0	V	Pass	
2472.6	-50.66	6 -13	-37.66	-70.56	-53.02	0.91	5.4	2	V	Pass	
3296.8	-59.90) -13	-46.90	-72.08	-64.54	1.07	7.8	6	V	Pass	

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Band :	G	SM850 for	· CH189			Temperature	:	23~25°C			
Test Mode :	: E	DGE class	8 Link ((8PSK)		Relative Hun	nidity:	48~52	48~52%		
Test Engine	eer : Le	90				Polarization : Horizontal					
Remark:	Sp	ourious en	ious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	RP Limit Over SPA				TX Cable TX Ante			Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
1672	-46.56	-13	-33.56	-62.25	-49.53	0.88	6.0	0	Н	Pass	
2510	-42.45	-13	-29.45	-66.22	-45.06	1.08	5.8	4	Н	Pass	
3346	-61.89	-13	-48.89	-72.49	-66.26	1.14	7.6	6	Н	Pass	

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Band :		GSM850	for CH189	9		Temperature	::	23~25°C			
Test Mode :		EDGE cl	ass 8 Link	(8PSK)		Relative Hun	nidity:	48~52%	52%		
Test Engine	er:	Leo				Polarization	Vertical				
Remark:		Spurious	emissions	s within 30-	1000MHz	were found n	nore tha	n 20dB bel	ow limit	line.	
Frequency	ER	RP Limit Over SPA S.G				TX Cable		enna Pola	rization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBı	m) (dBn	n) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi) (I	H/V)		
1672	-55.	24 -13	-42.24	-65.87	-58.21	0.88	6.0	0	V	Pass	
2510	-51.	05 -13	-38.05	-70.47	-53.66	1.08	5.8	4	V	Pass	
3346	-60.	41 -13	-47.41	-72.24	-64.78	1.14	7.6	6	V	Pass	

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GSM850 for CH251 23~25°C Band: Temperature : Test Mode: EDGE class 8 Link (8PSK) **Relative Humidity:** 48~52% Test Engineer : Leo **Polarization:** Horizontal Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark: Limit Over **SPA** S.G. TX Cable **TX Antenna Polarization Result** Frequency **ERP** Limit Reading **Power** loss Gain (dBm) (dBm) (dBi) (H/V) (MHz) (dB) (dBm) (dBm) (dB) 1697.6 -43.68 -13 -30.68 -60.13 -46.67 0.75 5.89 Н Pass 2546.4 -41.46 -13 -28.46 -65.86 -44.17 1.12 5.98 Н Pass 3395.2 -60.75 -65.15 7.80 Н Pass -13 -47.75 -71.95 1.25

Band :		GSM850 for	r CH251			Temperature	:	23~2	5°C	
Test Mode :		EDGE class	8 Link	(8PSK)		Relative Hum	idity:	48~5	2%	
Test Engine	er:	Leo				Polarization :		Vertio	cal	
Remark :		Spurious en	emissions within 30-1000MHz were found more than 20dB below limit line							line.
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1697.6	-57.2	29 -13	-44.29	-68.27	-60.28	0.75	5.8	9	V	Pass
2546.4	-50.8	30 -13	-37.80	-70.73	-53.51	1.12	5.9	8	V	Pass
3395.2	-59.6	60 -13	-46.60	-72.03	-64.00	1.25	7.8	0	V	Pass

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23~25°C Band: GSM1900 for CH512 Temperature: Test Mode: GSM Link (GMSK) **Relative Humidity:** 48~52% Test Engineer: Leo **Polarization:** Horizontal Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark: **EIRP** Limit Over **SPA** S.G. TX Cable **TX Antenna Polarization Result** Frequency Limit Reading **Power** loss Gain (dBm) (dBm) (H/V) (MHz) (dB) (dBm) (dBm) (dB) (dBi) 3700.4 -60.61 -13 -47.61 -72.16 -67.36 1.2 7.95 Н Pass 5550.6 -56.42 -13 -43.42 -73.81 -64.52 1.5 9.60 Н Pass 7400.8 -54.25 -41.25 -75.83 -64.44 11.89 Н Pass -13 1.7

Band :		GSM1900 f	or CH51	2		Temperature	:	23~25°C		
Test Mode :		GSM Link (GMSK)			Relative Hum	nidity:	48~52%		
Test Engine	er:	Leo				Polarization		Vertical		
Remark:		Spurious en	nissions	within 30-1	000MHz	were found m	ore thar	n 20dB bel	ow limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Pola	rization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i) (H	H/V)	
3700.4	-58.6	3 -13	-45.63	-73.06	-65.38	1.2	7.9	5	V	Pass
5550.6	-56.9	94 -13	-43.94	-73.42	-65.04	1.5	9.6	;	V	Pass
7400.8	-53.7	'2 -13	-40.72	-75.61	-63.91	1.7	11.8	9	V	Pass

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Band :	G	SM1900 f	or CH66	1		Temperature	:	23~25°C		
Test Mode	: G:	SM Link (GMSK)			Relative Hum	nidity :	48~5	2%	
Test Engine	eer : Le	eo				Polarization		Horiz	ontal	
Remark:	Sp	ourious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-60.47	-13	-47.47	-72.62	-67.21	1.28	8.0	2	Н	Pass
5640	-55.38	-13	-42.38	-73.37	-63.80	1.58	10.0	00	Н	Pass
7520	-53.82	-13	-40.82	-75.76	-64.14	1.78	12.	10	Н	Pass

Band :		GSM190	00 for CH	661		Temperature	e:	23~25°C	
Test Mode :		GSM Lir	nk (GMSK	()		Relative Hu	midity:	48~52%	
Test Engine	er:	Leo				Polarization	:	Vertical	
Remark :		Spurious	s emissio	ns within 30-	-1000MHz	were found r	more tha	n 20dB below lim	nit line.
Frequency	EIR	P Lim	it Ove		S.G. Power	TX Cable loss	TX Ant	enna Polarizatio	n Result
(MHz)	(dB	m) (dBı		.	(dBm)		(dE		
3760	-58.	47 -13	3 -45.4	7 -73.5	-65.21	1.28	8.0	2 V	Pass
5640	-56.	16 -13	-43.1	6 -73.24	-64.58	1.58	10) V	Pass
7520	-52.	49 -13	3 -39.4	9 -74.74	-62.81	1.78	12	.1 V	Pass



Band :	C	SM1900 fo	or CH81	0		Temperature	:	23~25°C		
Test Mode :	: (SSM Link (0	GMSK)			Relative Hum	idity:	48~5	2%	
Test Engine	er: L					Polarization :		Horiz	ontal	
Remark :	5	Spurious en	s emissions within 30-1000MHz were found more					n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3819.6	-62.0	7 -13	-49.07	-73.64	-68.84	1.23	8.0	0	Н	Pass
5729.4	-55.6	8 -13	-42.68	-73.48	-63.81	1.52	9.6	5	Н	Pass
7639.2	-53.5	8 -13	-40.58	-75.82	-63.76	1.82	12.0	00	Н	Pass

Band :		GSM1900 f	or CH81	0		Temperature	:	23~25	5°C	
Test Mode :		GSM Link (GMSK)			Relative Hum	nidity:	48~52	2%	
Test Engine	er:	Leo				Polarization		Vertic	al	
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBi	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3819.6	-58.	69 -13	-45.69	-73.14	-65.46	1.23	8		V	Pass
5729.4	-56.	86 -13	-43.86	-73.75	-64.99	1.52	9.6	5	V	Pass
7639.2	-53.	30 -13	-40.30	-75.85	-63.48	1.82	12	<u> </u>	V	Pass

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Band :	G	SM1900 f	or CH51	2		Temperature	:	23~25°C		
Test Mode :	: E	DGE class	8 Link ((8PSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer : Le	eo				Polarization		Horiz	ontal	
Remark:	Sp	ourious en	s emissions within 30-1000MHz were found more than 20d					B below limit	line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3700.4	-61.19	-13	-48.19	-72.74	-67.94	1.2	7.9	5	Н	Pass
5550.6	-56.13	-13	-43.13	-73.52	-64.23	1.5	9.6	0	Н	Pass
7400.8	-54.05	-13	-41.05	-75.63	-64.24	1.7	11.8	39	Н	Pass

Band :		GSM1	900 fo	or CH512	2		Temperature	:	23~2	5°C	
Test Mode :		EDGE	class	8 Link (8PSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	er:	Leo		Polarization : Vertical							
Remark :		Spurio	ous en	s emissions within 30-1000MHz were found more than 20dB below limit line							line.
Frequency	EIR	P L	imit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dB	m) (d	Bm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3700.4	-58.	90 -	-13	-45.90	-73.33	-65.65	1.2	7.9	5	V	Pass
5550.6	-56.	72 -	-13	-43.72	-73.2	-64.82	1.5	9.0	6	V	Pass
7400.8	-53.	51 -	-13	-40.51	-75.4	-63.70	1.7	11.8	39	V	Pass

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Band: GSM1900 for CH661 Temperature : 23~25°C Test Mode: EDGE class 8 Link (8PSK) **Relative Humidity:** 48~52% Test Engineer : Leo **Polarization:** Horizontal Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark: Limit Over **SPA** S.G. TX Cable **TX Antenna Polarization Result** Frequency **EIRP** Limit Reading **Power** loss Gain (dBi) (H/V) (MHz) (dBm) (dBm) (dB) (dBm) (dBm) (dB) 3760 -61.23 -13 -48.23 -73.38 -67.97 1.28 8.02 Н Pass 5640 -55.45 -13 -42.45 -73.44 -63.87 1.58 10.00 Н Pass 7520 -54.00 -41.00 -75.94 -64.32 12.10 Н Pass -13 1.78

Band :		GSM1900 f	for CH66	1		Temperature	:	23~25	5°C	
Test Mode :		EDGE clas	s 8 Link	(8PSK)		Relative Hun	nidity:	48~52	2%	
Test Engine	er:	Leo	Polarization : Vertical							
Remark :		Spurious e	emissions within 30-1000MHz were found more than 20dB below limit line							
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBi	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3760	-58.	45 -13	-45.45	-73.48	-65.19	1.28	8.0	2	V	Pass
5640	-56.	51 -13	-43.51	-73.59	-64.93	1.58	10)	V	Pass
7520	-53.	61 -13	-40.61	-75.86	-63.93	1.78	12.	1	V	Pass

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Band :	C	SM1900 f	or CH81	0		Temperature	:	23~2	5°C	
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	eer : L					Polarization		Horiz	ontal	
Remark :	S	Spurious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3819.6	-61.08	3 -13	-48.08	-72.65	-67.85	1.23	8.0	0	Н	Pass
5729.4	-55.42	2 -13	-42.42	-73.22	-63.55	1.52	9.6	5	Н	Pass
7639.2	-52.62	2 -13	-39.62	-74.86	-62.80	1.82	12.0	00	Н	Pass

Band :	G	SM1900 fo	or CH81	0		Temperature	:	23~2	23~25°C		
Test Mode :	E	OGE class	8 Link ((8PSK)		Relative Hum	idity:	48~5	2%		
Test Enginee	r: Le	0				Polarization :		Vertic	cal		
Remark :	Sp	ourious en	nissions	within 30-	1000MHz	were found m	ore tha	line.			
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz) (dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
3819.6 -	57.64	-13	-44.64	-72.09	-64.41	1.23	8		V	Pass	
5729.4 -	56.65	-13	-43.65	-73.54	-64.78	1.52	9.6	5	V	Pass	
7639.2 -	53.24	-13	-40.24	-75.79	-63.42	1.82	12	2	V	Pass	

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Band :	\	NCDMA Ba	and V for	CH4132		Temperature	:	23~2	5°C	
Test Mode :	: I	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	er:	ео				Polarization	:	Horiz	ontal	
Remark:	Ş	Spurious er	us emissions within 30-1000MHz were found more than 20dB below limit					line.		
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1652.8	-46.1	3 -13	-33.13	-62.63	-49.12	0.81	5.9	5	Н	Pass
2479.2	-48.4	3 -13	-35.43	-69.79	-50.88	1.2	5.8	0	Н	Pass
3305.6	-61.9	7 -13	-48.97	-72.57	-66.27	1.25	7.7	0	Н	Pass

Band :	W	CDMA Ba	and V for	CH4132		Temperature	:	23~2	5°C	
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Humidity: 48~52%			2%	
Test Engine	eer : Le	90				Polarization :		Vertic	al	
Remark :	Sį	ourious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1652.8	-52.58	-13	-39.58	-65.10	-55.57	0.81	5.9	5	V	Pass
2479.2	-50.20	-13	-37.20	-69.56	-52.65	1.20	5.8	0	V	Pass
3305.6	-60.46	-13	-47.46	-72.29	-64.76	1.25	7.7	0	V	Pass

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Band :	W	CDMA Ba	and V for	CH4182		Temperature	:	23~25°C		
Test Mode	: RN	/IC 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~5	2%	
Test Engine	eer : Le	O Polarization :						Horizontal		
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1672	-42.96	-13	-29.96	-59.24	-45.93	0.88	6.0	0	Н	Pass
2510	-47.86	-13	-34.86	-70.03	-50.47	1.08	5.8	4	Н	Pass
3346	-61.49	-13	-48.49	-72.09	-65.86	6 1.14 7.66 H		Н	Pass	

Band :		WCDMA	Band V fo	or CH4182		Temperature	:	23~25°C		
Test Mode		RMC 12	.2Kbps Lir	nk (QPSK)		Relative Hui	midity:	48~52%		
Test Engine	er:	r: Leo Polarization : Verti								
Remark :		Spurious	emission	s within 30-	1000MHz	were found r	nore tha	n 20dB below lim	it line.	
Frequency	ER	P Lim	it Over	SPA	S.G.	TX Cable	TX Ant	enna Polarization	Result	
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBr	n) (dBr	n) (dB)	(dBm)	(dBm)	(dB)	(dE	i) (H/V)		
1672	-51.7	76 -13	-38.76	-63.80	-54.73	0.88	6.0	0 V	Pass	
2510	-50.4	40 -13	-37.40	-70.12	-53.01	1.08	5.8	4 V	Pass	
3346	-59.8	31 -13	-46.81	-71.64	-64.18	1.14	7.6	6 V	Pass	

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Band :	W	CDMA Ba	ınd V for	CH4233		Temperature	:	23~25°C			
Test Mode :	: RI	VC 12.2K	bps Link	(QPSK)		Relative Humidity: 48			48~52%		
Test Engine	eer : Le	0				Polarization :			ontal		
Remark :	Sp	ourious en	ourious emissions within 30-1000MHz were found more that					n 20d	B below limit	line.	
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1693.2	-46.22	-13	-33.22	-62.54	-49.55	0.82	6.3	0	Н	Pass	
2539.8	-48.25	-13	-35.25	-70.18	-50.86	1.08	5.8	4	Н	Pass	
3386.4	-61.06					1.23	7.5	0	Н	Pass	

								-	
Band :	WCDMA Ba	and V for	CH4233		Temperature	: 23~2	23~25°C		
Test Mode :	RMC 12.2K	lbps Link	(QPSK)		Relative Hum	52%			
Test Engineer :	Leo Polarization :						cal		
Remark :	Spurious er	missions	within 30-1	000MHz	were found m	ore than 20d	B below limit	line.	
Frequency EF	RP Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result	
		Limit	Reading	Power	loss	Gain			
(MHz) (dE	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)		
1693.2 -56	.88 -13	-43.88	-68.13	-60.21	0.82	6.30	V	Pass	
2539.8 -52	.05 -13	-39.05	-70.87	-54.66	1.08	5.84	V	Pass	
3386.4 -59	.86 -13	-46.86	-71.98	-63.98	1.23	7.50	V	Pass	

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Band :	V	VCDMA Ba	and II for	CH9262		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Humidity: 48			48~52%		
Test Engine	eer : L	eo Polarization :						Horiz	ontal		
Remark :	S	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	in			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3704.8	-61.19	9 -13	-48.19	-73.05	-68.04	1.35	8.2	0	Н	Pass	
5557.2	-55.3	5 -13	-42.35	-73.08	-63.96	1.65	10.2	26	Н	Pass	
7409.6	-53.58					1.82	12.	16	Н	Pass	

Band :	V	/CDMA Ba	and II for	CH9262		Temperature	:	23~25°C		
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer : L	eo Polarization :						Vertic	al	
Remark :	S	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBm) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3704.8	-58.75	, , , ,	-45.75	-73.49	-65.60	1.35	8.2		\ \	Pass
5557.2	-57.22	-13	-44.22	-74.04	-65.83	1.65	10.2	26	V	Pass
7409.6	-52.29					1.82	12.	16	V	Pass

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Band :	W	CDMA Ba	nd II for	CH9400		Temperature	:	23~25°C			
Test Mode	: RN	//C 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~52	8~52%		
Test Engine	eer : Le	0				Polarization :		Horiz	ontal		
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
3760	-60.85	-13	-47.85	-73.00	-67.59	1.28	8.0	2	Н	Pass	
5640	-55.53	-13	-42.53	-73.52	-63.95	1.58	10.0	00	Н	Pass	
7520	-53.76	-13	-40.76	-75.70	-64.08	3 1.78 12.10 H		Н	Pass		

Band :	W	/CDMA Ba	ınd II for	CH9400		Temperature	:	23~25°C			
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Humidity:			48~52%		
Test Engine	eer : Le	: Leo Polarization :						Vertic	al		
Remark :	S	purious emissions within 30-1000MHz were found more the							B below limit	line.	
										-	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable			Polarization		
Frequency	EIRP	Limit	Over Limit	SPA Reading				enna			
Frequency (MHz)	EIRP (dBm				S.G.	TX Cable loss	TX Ant	enna n			
) (dBm)	Limit	Reading	S.G. Power	TX Cable loss	TX Ant Gai	enna n i)	Polarization		
(MHz)	(dBm) (dBm)	Limit (dB)	Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Gai (dB	enna n i)	Polarization (H/V)	Result	

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Band :	V	/CDMA Ba	ınd II for	CH9538		Temperature : 2			23~25°C		
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~52	2%		
Test Engine	eer : L	eo				Polarization	:	Horiz	ontal		
Remark :	S	purious er	nissions	within 30-1	1000MHz	were found m	ore tha	n 20dl	B below limit	line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
3815.2	-60.36	-13	-47.36	-72.51	-67.10	1.28	8.0	2	Н	Pass	
5722.8	-54.67	-13	-41.67	-72.66	-63.09	1.58	10.0	00	Н	Pass	
7630.4	-53.22	-13	-40.22	-75.16	-63.54	1.78	12.	10	Н	Pass	

Band :		WCDMA Ba	ınd II for	CH9538		Temperature	:	23~25°C		
Test Mode :		RMC 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~52%		
Test Engine	er:	Leo				Polarization :		Vertic	al	
Remark :		Spurious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3815.2	-58.2	23 -13	-45.23	-73.26	-64.97	1.28	8.0	2	V	Pass
5722.8	-56.3	35 -13	-43.35	-73.43	-64.77	1.58	10)	V	Pass
7630.4	-53.1	19 -13	-40.19	-75.44	-63.51	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 testing follows FCC KDB 971168 v02r01 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 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.
- 4. With power OFF, the temperature was raised in 10°C steps 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 testing follows FCC KDB 971168 v02r01 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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3.8.5 Test Setup



Thermal Chamber

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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		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	26	+0.03	23	+0.03	
-20	28	+0.03	26	+0.03	
-10	26	+0.03	24	+0.03	
0	23	+0.03	23	+0.03	
10	25	+0.03	25	+0.03	PASS
20(Ref.)	26	+0.03	20	+0.02	
30	28	+0.03	22	+0.03	
40	25	+0.03	25	+0.03	
50	31	+0.04	28	+0.03	

Band :	GSM 1900	Channel: 661	
Limit (ppm):	within authorized band	Frequency:	1880.0 MHz

_	GSM		EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	45	+0.02	39	+0.02	
-20	46	+0.02	37	+0.02	
-10	44	+0.02	41	+0.02	
0	46	+0.02	31	+0.02	
10	42	+0.02	35	+0.02	PASS
20(Ref.)	46	+0.02	38	+0.02	
30	42	+0.02	32	+0.02	
40	45	+0.02	36	+0.02	
50	49	+0.03	41	+0.02	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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

_ ,	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	10	+0.01	
-20	9	+0.01	
-10	10	+0.01	
0	8	+0.01	
10	10	+0.01	PASS
20(Ref.)	10	+0.01	
30	12	+0.01	
40	10	+0.01	
50	11	+0.01	

Band :	WCDMA Band II	Channel : 9400	
Limit (ppm):	within authorized band	Frequency:	1880.0 MHz

- ,	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	21	+0.01	
-20	20	+0.01	
-10	23	+0.01	
0	21	+0.01	
10	18	+0.01	PASS
20(Ref.)	20	+0.01	
30	22	+0.01	
40	20	+0.01	
50	25	+0.01	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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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	
		3.7	26	+0.03			
	GSM	BEP	32	+0.04			
GSM 850		4.2	28	+0.03			
CH189		3.7	20	+0.02			
	EDGE class 8	BEP	18	+0.02			
	0.000	4.2	16	+0.02			
	GSM	3.7	46	+0.02			
		BEP	45	+0.02			
GSM 1900		4.2	39	+0.02	2.5		
CH661	EDGE class 8	3.7	38	+0.02	2.5 (Note 3.)	PASS	
		_	BEP	35	+0.02		
		4.2	33	+0.02			
		3.7	11	+0.01			
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	7	+0.01			
		4.2	8	+0.01			
	RMC 12.2Kbps	3.7	20	+0.01			
WCDMA Band II CH9400		BEP	22	+0.01			
0.10.100		4.2	20	+0.01			

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.5 V.
- 3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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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	FSV40	101078	10Hz~40GHz	May 08, 2014	Jul. 22, 2014~ Aug. 20, 2014	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	-40℃~150℃	Feb. 21, 2014	Jul. 22, 2014~ Aug. 20, 2014	Feb. 20, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Aug. 17, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Aug. 17, 2014	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Aug. 17, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Aug. 17, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jan. 27, 2014	Aug. 17, 2014	Jan. 26, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Aug. 17, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Aug. 17, 2014	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001985	100Vac~250Vac	Mar. 25, 2014	Aug. 17, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Aug. 17, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Aug. 17, 2014	NCR	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Sep. 03, 2013	Jul. 22, 2014~ Jul. 28, 2014	Sep. 02, 2014	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000M Hz	NCR	Jul. 22, 2014~ Jul. 28, 2014	NCR	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	NCR	Jul. 22, 2014~ Jul. 28, 2014	NCR	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	NCR	Jul. 22, 2014~ Jul. 28, 2014	NCR	ERP/EIRP (OTA01-SZ)

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5 Uncertainty of Evaluation

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

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Measuring Uncertainty for a Level of	2.0
Confidence of 95% (U = 2Uc(y))	3.9

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