FCC RF Test Report

APPLICANT : TCL Communication Ltd

EQUIPMENT: GSM Quad-band / UMTS Quad-band / LTE 6

band mobile phone

BRAND NAME : ALCATEL ONETOUCH

MODEL NAME : 6045I

MARKETING NAME : ALCATEL ONETOUCH IDOL 3 (5.5)

FCC ID : 2ACCJN002

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 05, 2015 and testing was completed on Mar. 31, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

TINGHAN) INC

Page Number

Report Version

Testing Laboratory 2627

: 1 of 153

: Rev. 01

Report Issued Date: Apr. 17, 2015

Report No.: FG511301-03A

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG511301-03A	Rev. 01	Initial issue of report	Apr. 17, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4)	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4)	Peak-to-Average Ratio	< 13 dB	PASS	-
	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	\$2.1049 \$22.917(b) \$24.238(b) \$27.53(g)	RSS-GEN(4.6.1) RSS-133(6.5) RSS-139 (6.5)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	\$2.1051 \$22.917(a) \$24.238(a) \$27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 29.31 dB at 6930.000 MHz
3.8	§2.1055 §22.355 §2.1055 §24.235 §27.54	RSS-GEN(6.11) RSS-132 (5.3) RSS-GEN(6.11) RSS-133 (6.3) RSS-139 (6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-

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1 General Description

1.1 Applicant

TCL Communication Ltd

FLAT/RM 1910-12A BLOCK 3 19/F CHINA HONG KONG CITY 33 CANTON ROAD TSIMSHATSUI KL

1.2 Manufacturer

TCL Communication Ltd

FLAT/RM 1910-12A BLOCK 3 19/F CHINA HONG KONG CITY 33 CANTON ROAD TSIMSHATSUI KL

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	GSM Quad-band / UMTS Quad-band / LTE 6 band mobile phone					
Brand Name	ALCATEL ONETOUCH					
Model Name	60451					
Marketing Name	ALCATEL ONETOUCH IDOL 3 (5.5)					
FCC ID	2ACCJN002					
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/DC-HSDPA/LTE/ NFC/WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.1 LE					
HW Version	PIO					
SW Version	7 \$25					
EUT Stage	Identical Prototype					

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- The device has two acoustic receives function, when a voice call is coming, user can choose any one receiver to response. And only when receiver on the bottom of the EUT is enabled, the power reduction will be activated to limit the maximum power of any cellular band.

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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 IV: 1712.4 MHz ~ 1752.6 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 IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
Maximum Output Power to Antenna	GSM850 : 32.89 dBm GSM1900 : 29.69 dBm WCDMA Band V : 23.76 dBm WCDMA Band IV : 23.13 dBm WCDMA Band II : 23.19 dBm					
Antenna Type	PIFA Antenna					
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only) DC-HSDPA: 64QAM					

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1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.7696	0.0359 ppm	248KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.2082	0.0418 ppm	246KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.1013	0.0395 ppm	4M16F9W
Part 24	GSM1900 GSM	GMSK	1.2106	0.0229 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.5214	0.0149 ppm	246KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2518	0.0229 ppm	4M18F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.3180	0.0225 ppm	4M18F9W

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1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Took Cita No	Sporton Site No.	FCC/IC Registration No.				
Test Site No.	TH01-KS	149928/4086E-1				

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.							
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan							
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China							
	TEL: +86-755- 3320-2398							
Took Site No	Sporton Site No.	FCC/IC Registration No.						
Test Site No.	03CH02-SZ	831040/4086F-1						

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- IC RSS-132 Issue 3
- IC RSS-133 Issue 6
- IC RSS-139 Issue 2
- IC RSS-Gen Issue 4

Remark:

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 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 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV
- 3. 30 MHz to 10th harmonic 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						
GSM 850	■ GSM Link	■ GSM Link						
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link						
GSM 1900	■ GSM Link	■ GSM Link						
GSW 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						
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

Note: According the functionality of the EUT, the maximum power levels are chosen to test all test cases listed in this report as the worst case configuration is when top acoustic receiver works.

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Conducted Power Measurement Results:

< Full Power Mode>:

Conducted Power (*Unit: dBm)									
Band		GSM850		GSM1900					
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GSM	32.89	32.62	32.83	29.37	29.32	29.69			
GPRS class 8	32.87	32.60	32.82	29.35	29.31	29.68			
GPRS class 10	30.96	31.07	30.54	27.86	27.67	27.66			
GPRS class 11	29.10	29.21	29.38	26.01	25.77	25.73			
GPRS class 12	28.03	28.22	28.36	24.91	24.80	24.70			
EGPRS class 8	26.61	26.63	26.56	26.16	26.66	26.09			
EGPRS class 10	25.53	25.55	25.56	24.63	24.55	24.60			
EGPRS class 11	23.98	24.01	24.01	23.10	23.00	23.06			
EGPRS class 12	22.45	22.43	22.38	21.58	21.49	21.59			

Conducted Power (*Unit: dBm)										
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV			
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
AMR 12.2Kbps	23.65	23.67	23.75	23.10	23.13	23.18	23.11	23.05	23.05	
RMC 12.2Kbps	23.68	23.69	23.76	23.11	23.14	23.19	23.13	23.06	23.07	
HSDPA Subtest-1	22.07	22.13	22.27	21.53	21.72	21.92	21.52	21.48	21.46	
HSDPA Subtest-2	22.06	22.11	22.25	21.55	21.84	21.95	21.51	21.48	21.47	
HSDPA Subtest-3	22.07	22.15	22.26	21.58	21.78	21.90	21.50	21.57	21.45	
HSDPA Subtest-4	22.05	22.13	22.24	21.55	21.75	21.84	21.48	21.56	21.44	
DC-HSDPA Subtest-1	22.04	22.07	22.24	21.50	21.69	21.88	21.49	21.45	21.41	
DC-HSDPA Subtest-2	22.05	22.09	22.16	21.53	21.74	21.92	21.50	21.46	21.44	
DC-HSDPA Subtest-3	22.01	22.12	22.20	21.54	21.76	21.90	21.46	21.52	21.42	
DC-HSDPA Subtest-4	22.03	22.10	22.15	21.49	21.71	21.80	21.45	21.53	21.43	
HSUPA Subtest-1	21.71	22.03	21.75	21.96	21.97	21.83	21.77	21.65	21.65	
HSUPA Subtest-2	21.05	21.33	21.06	20.9	21.32	21.41	20.97	21.04	21.04	
HSUPA Subtest-3	20.71	20.99	20.74	21.43	21.20	21.57	20.59	20.60	20.60	
HSUPA Subtest-4	22.00	21.59	21.40	21.88	21.60	21.32	21.17	21.23	21.23	
HSUPA Subtest-5	21.76	21.90	21.93	21.85	21.99	21.94	21.56	21.55	21.55	

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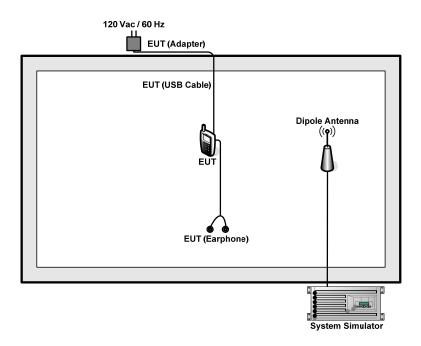
< Reduced Power Mode>:

Conducted Power (*Unit: dBm)									
Band		GSM850		GSM1900					
Channel	128 189 251		512	661	810				
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GSM	30.26	30.34	30.57	25.13	25.11	24.97			
GPRS class 8	30.24	30.33	30.56	25.12	25.09	24.95			
GPRS class 10	27.18	27.32	27.46	22.08	22.00	21.92			
GPRS class 11	25.69	25.49	25.57	20.53	20.43	20.43			
GPRS class 12	24.23	24.41	24.65	19.26	19.20	19.11			
EGPRS class 8	26.57	26.59	26.62	25.11	25.09	24.94			
EGPRS class 10	25.57	25.51	25.54	22.04	22.00	21.90			
EGPRS class 11	23.94	23.97	23.97	20.50	20.41	20.41			
EGPRS class 12	22.40	22.40	22.44	19.18	19.15	19.07			

		Condu	cted Pov	ver (*Uni	t: dBm)				
Band	WCI	DMA Bar	nd V	WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2Kbps	21.96	22.01	22.07	16.78	16.85	16.92	16.94	16.85	16.87
RMC 12.2Kbps	21.97	22.02	22.09	16.80	16.86	16.93	16.96	16.85	16.88
HSDPA Subtest-1	20.52	20.59	20.63	15.66	15.59	15.77	15.52	15.63	15.43
HSDPA Subtest-2	20.51	20.57	20.60	15.68	15.61	15.79	15.50	15.62	15.43
HSDPA Subtest-3	20.07	20.36	20.04	15.65	15.66	15.77	15.53	15.61	15.40
HSDPA Subtest-4	19.92	20.25	19.96	15.62	15.57	15.76	15.50	15.58	15.38
DC-HSDPA Subtest-1	20.45	20.41	20.56	15.54	15.53	15.74	15.51	15.59	15.42
DC-HSDPA Subtest-2	20.39	20.48	20.53	15.65	15.54	15.73	15.48	15.60	15.41
DC-HSDPA Subtest-3	20.05	20.34	20.02	15.60	15.62	15.75	15.50	15.57	15.34
DC-HSDPA Subtest-4	19.90	20.23	19.93	15.59	15.48	15.67	15.43	15.54	15.29
HSUPA Subtest-1	20.09	20.38	20.09	15.79	15.93	15.86	15.46	15.80	15.43
HSUPA Subtest-2	19.44	19.67	19.40	15.19	14.83	15.33	15.01	14.99	14.96
HSUPA Subtest-3	19.10	19.27	19.12	14.82	14.53	14.89	14.56	14.63	15.12
HSUPA Subtest-4	19.83	19.90	19.72	15.51	15.91	15.53	15.22	15.25	15.19
HSUPA Subtest-5	20.05	20.18	20.29	15.74	15.82	15.05	15.50	15.44	15.62

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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	GW INSTEK	GPD-2303S	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between 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 5.2 dB and a 10dB attenuator.

Example:

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

= 5.2 + 10 = 15.2 (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.

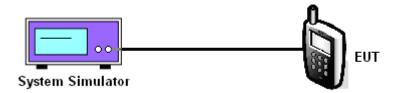
3.1.2 Measuring Instruments

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	GS	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 189 251 (Low) (Mid) (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)	32.89	32.62	32.83	26.61	26.63	26.56	23.68	23.69	23.76	

	PCS Band								
Modes	GS	M1900 (G	SM)	GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	29.37	29.32	29.69	26.16	26.66	26.09	23.11	23.14	23.19

AWS Band								
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4	1732.6	1752.6					
Conducted Power (dBm)	23.13	23.06	23.07					

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.

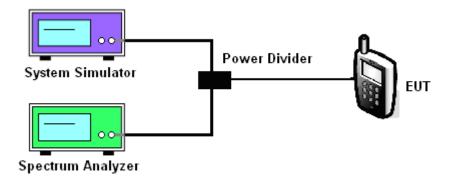
3.2.2 Measuring Instruments

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 v02r02 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)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.34	0.35	0.35	2.77	2.71	2.61	2.64	2.60	3.00

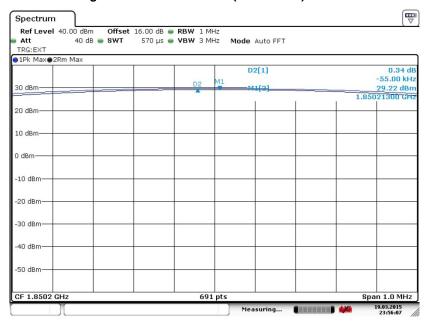
	AWS Band							
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4 1732.6 1752.6							
Peak-to-Average Ratio (dB)	3.12	3.16	3.20					

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

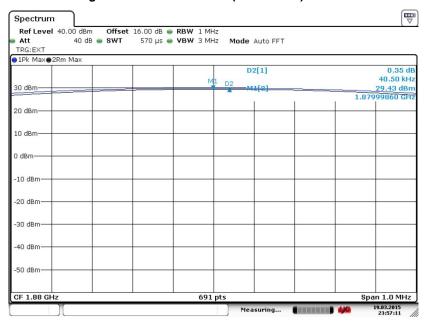
Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 19.MAR.2015 23:56:07

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



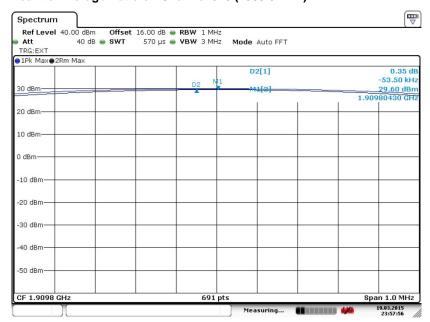
Date: 19.MAR.2015 23:57:11

SPORTON INTERNATIONAL (KUNSHAN) INC.

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

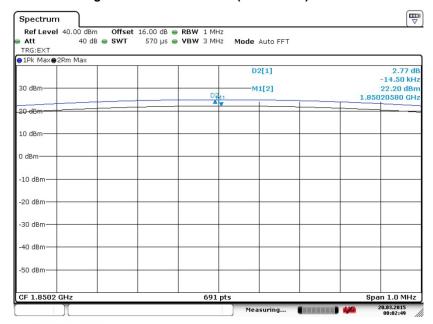


Date: 19.MAR.2015 23:57:56

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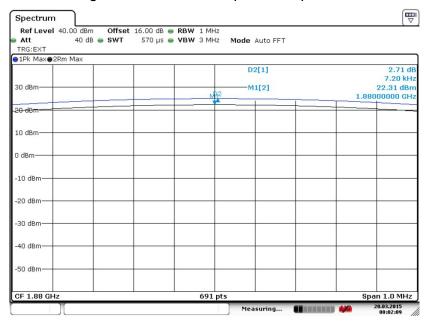
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 20.MAR.2015 00:02:49

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

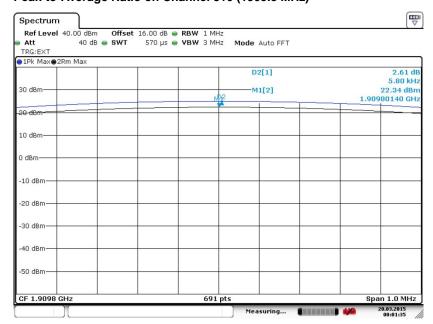


Date: 20.MAR.2015 00:02:09

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

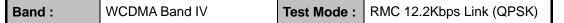


Date: 20.MAR.2015 00:01:36

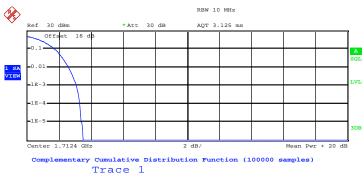
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Peak-to-Average Ratio on Channel 1312 (1712.4 MHz)



Mean 21.62 dBm
Peak 25.13 dBm
Crest 3.51 dB

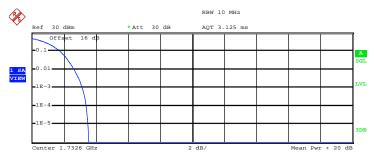
10 % 1.72 dB
1 % 2.60 dB
.1 % 3.12 dB

3.32 dB

Date: 16.MAR.2015 22:29:56

.01 %

Peak-to-Average Ratio On Channel 1413 (1732.6 MHz)



Complementary Cumulative Distribution Function (100000 samples)
Trace 1

Mean 21.50 dBm
Peak 25.06 dBm
Crest 3.56 dB

10 % 1.76 dB
1 % 2.64 dB
.1 % 3.16 dB

3.40 dB

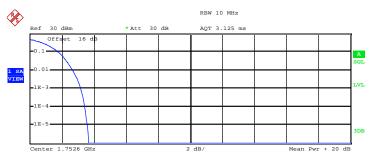
Date: 16.MAR.2015 22:29:23

.01 %

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Peak-to-Average Ratio on Channel 1513 (1752.6 MHz)



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.18 dBm
Peak 24.85 dBm
Crest 3.66 dB

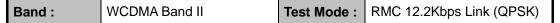
10 % 1.80 dB 1 % 2.68 dB .1 % 3.20 dB .01 % 3.44 dB

Date: 16.MAR.2015 22:28:46

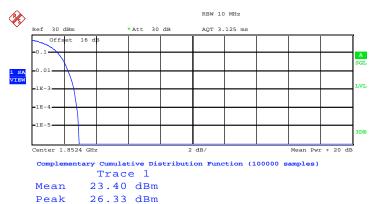
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Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



Crest 2.92 dB

10 % 1.64 dB

1 % 2.28 dB

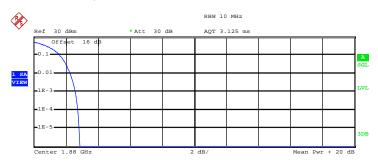
.1 % 2.64 dB

2.80 dB

Date: 16.MAR.2015 21:53:20

.01 %

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



Complementary Cumulative Distribution Function (100000 samples)
Trace 1

Mean 23.38 dBm Peak 26.26 dBm Crest 2.88 dB 10 % 1.64 dB 1 % 2.28 dB

.1 % 2.60 dB .01 % 2.76 dB

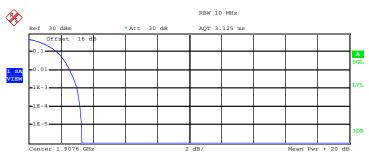
Date: 16.MAR.2015 21:54:05

SPORTON INTERNATIONAL (KUNSHAN) INC.

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 23.16 dBm
Peak 26.47 dBm
Crest 3.31 dB

10 % 1.76 dB 1 % 2.56 dB .1 % 3.00 dB .01 % 3.20 dB

Date: 16.MAR.2015 21:54:49

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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 v02r02.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- 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.
- 2. 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.
- 3. 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.

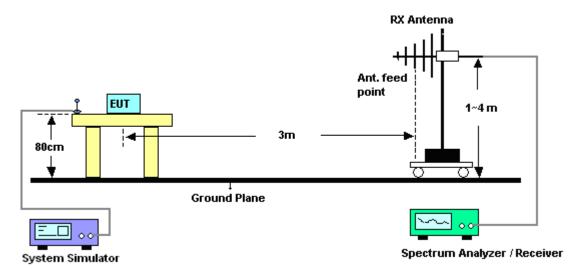
	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

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3.3.4 Test Setup



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3.3.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	128	28.3786	0.6884	18.1096	0.0647		
Middle	189	28.7349	0.7473	18.8185	0.0762		
Highest	251	28.8624	0.7696	19.4067	0.0872		
Limit	ERP < 7W	Res	sult	PA	SS		

GSM850 (EDGE class 8) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Chamei	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	128	22.3570	0.1721	12.0519	0.0160		
Middle	189	22.5846	0.1813	12.8193	0.0191		
Highest	251	23.1850	0.2082	13.6122	0.0230		
Limit	ERP < 7W	Re	sult	PA	SS		

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	4132	20.0542	0.1013	9.1066	0.0081		
Middle	4183	19.9053	0.0978	9.5828	0.0091		
Highest	4233	19.5529 0.0902 9.5806 0.0091					
Limit	ERP < 7W	Result			SS		

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3.3.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP						
Channel	Frequency	Horizontal		Vertical		
Channel	(MHz)	ERP(dBm) ERP(W)		ERP(dBm)	ERP(W)	
Lowest	512	29.4010	0.8712	29.7268	0.9390	
Middle	661	29.3720	0.8654	30.1699	1.0399	
Highest	810	30.1723	1.0405	30.8300	1.2106	
Limit	EIRP < 2W	Result		PA	SS	

GSM1900 (EDGE class 8) Radiated Power EIRP							
Channel	Frequency	Horizontal ERP(dBm) ERP(W)		Vertical			
Channel	(MHz)			ERP(dBm)	ERP(W)		
Lowest	512	25.6834	0.3701	26.5642	0.4533		
Middle	661	26.0892	0.4064	26.7859	0.4771		
Highest	810	25.8162	0.3816	27.1719	0.5214		
Limit	EIRP < 2W	Result		PA	SS		

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
Channel	Frequency	Horizontal		Vertical			
Channel	(MHz)	ERP(dBm) ERP(W)		ERP(dBm)	ERP(W)		
Lowest	9262	24.0098	0.2518	23.8956	0.2452		
Middle	9400	23.6602	0.2323	23.6213	0.2302		
Highest	9538	23.5813	0.2281	23.8382	0.2420		
Limit	EIRP < 2W	Result		PA	SS		

WCDMA Band IV(RMC 12.2Kbps) Radiated Power EIRP						
Channel	Frequency	Horizontal		Vertical		
Chamilei	(MHz)	ERP(dBm) ERP(W)		ERP(dBm)	ERP(W)	
Lowest	1312	23.5334	0.2256	23.7993	0.2398	
Middle	1413	24.8934	0.3086	25.0236	0.3180	
Highest	1513	24.8800	0.3076	24.9029	0.3092	
Limit	EIRP < 1W	Result		PA	SS	

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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.

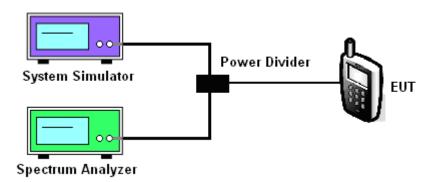
3.4.2 Measuring Instruments

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 v02r02 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, peak 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	G	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128	189	251	128	189	251	
Chamie	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	248.00	242.00	244.00	246.00	244.00	244.00	
26dB BW (kHz)	314.00	316.00	308.00	310.00	310.00	308.00	

PCS Band							
Modes	GS	GSM1900 (GSM)			GSM1900 (EDGE class 8)		
Channel	512	661	810	512	661	810	
Chamer	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	
99% OBW (kHz)	246.00	244.00	242.00	246.00	246.00	246.00	
26dB BW (kHz)	316.00	314.00	316.00	310.00	312.00	314.00	

Cellular Band							
Modes	WCD	WCDMA Band V (RMC 12.2Kbps)					
Channel	4132 (Low)	4132 (Low) 4182 (Mid) 4233 (High)					
Frequency (MHz)	826.4 836.4 846.6						
99% OBW (MHz)	4.14	4.16	4.16				
26dB BW (MHz)	4.68	4.68 4.68 4.68					

AWS Band							
Modes	WCDMA Band IV (RMC 12.2Kbps)						
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)					
Frequency (MHz)	1712.4 1732.6 1752.6						
99% OBW (MHz)	4.18	4.18	4.18				
26dB BW (MHz)	4.68	4.70	4.70				

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PCS Band							
Modes	WCD	WCDMA Band II (RMC 12.2Kbps)					
Channel	9262 (Low)	9262 (Low) 9400 (Mid) 9538 (High)					
Frequency (MHz)	1852.4 1880 1907.6						
99% OBW (MHz)	4.18	4.18	4.18				
26dB BW (MHz)	4.70	4.70 4.68 4.68					

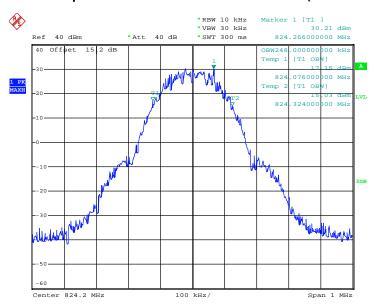
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3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

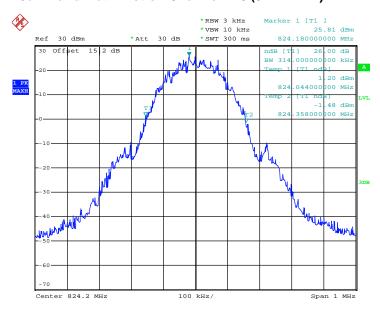
Band: GS	SM 850	Test Mode :	GSM Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 16.MAR.2015 19:07:43

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

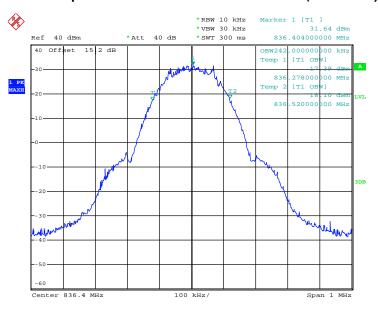


Date: 16.MAR.2015 19:00:51

SPORTON INTERNATIONAL (KUNSHAN) INC.

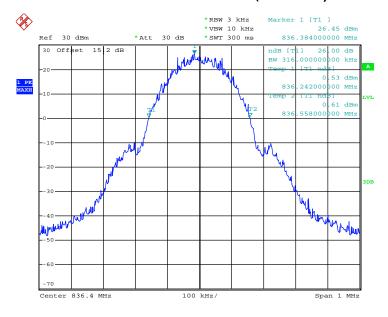
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 16.MAR.2015 19:06:41

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



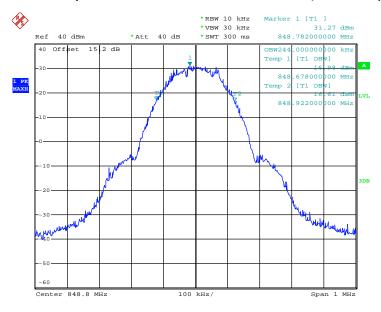
Date: 16.MAR.2015 19:02:02

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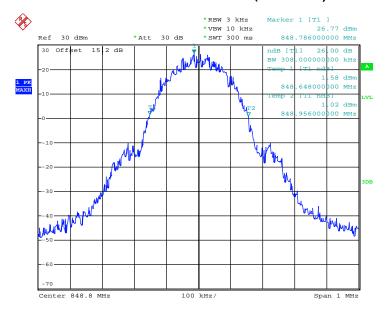
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 16.MAR.2015 19:04:57

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 16.MAR.2015 19:02:48

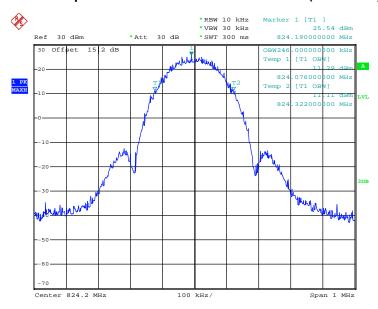
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

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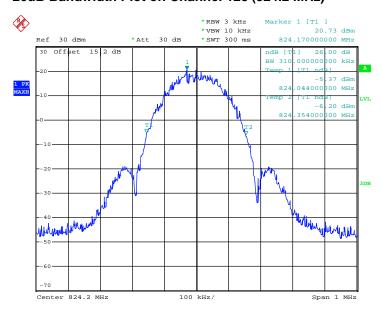


99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 16.MAR.2015 20:29:03

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

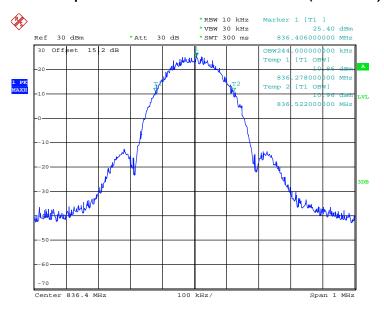


Date: 16.MAR.2015 20:22:49

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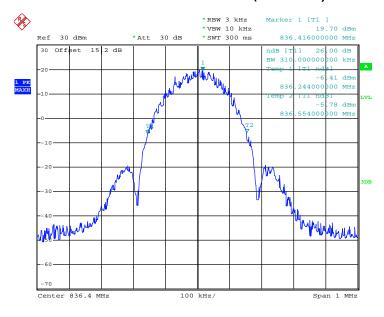
FCC RF Test Report

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



Date: 16.MAR.2015 20:28:15

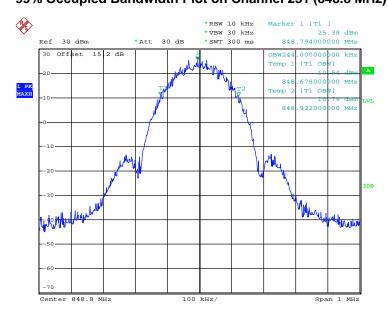
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 16.MAR.2015 20:24:23

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



Date: 16.MAR.2015 20:27:31

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



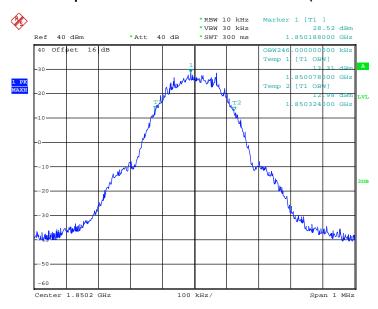
Date: 16.MAR.2015 20:25:28

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 37 of 153
Report Issued Date : Apr. 17, 2015

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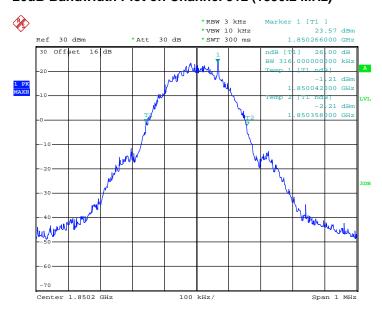
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 16.MAR.2015 23:02:00

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

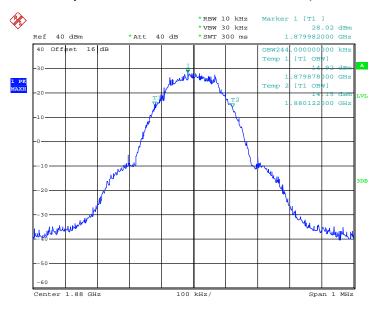


Date: 16.MAR.2015 22:50:41

SPORTON INTERNATIONAL (KUNSHAN) INC.

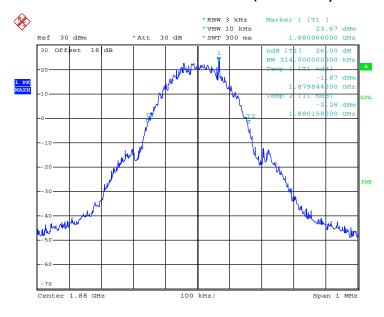
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 38 of 153
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 16.MAR.2015 23:00:14

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



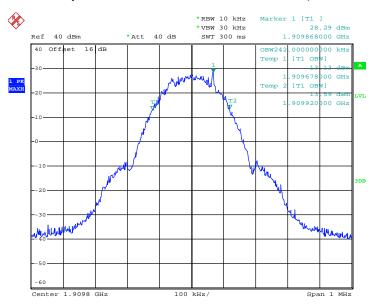
Date: 16.MAR.2015 22:52:07

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

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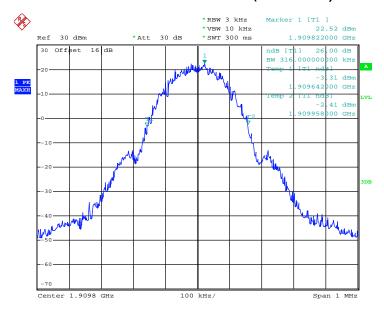
FCC RF Test Report

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



Date: 16.MAR.2015 22:56:31

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 16.MAR.2015 23:33:43

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 40 of 153
Report Issued Date : Apr. 17, 2015
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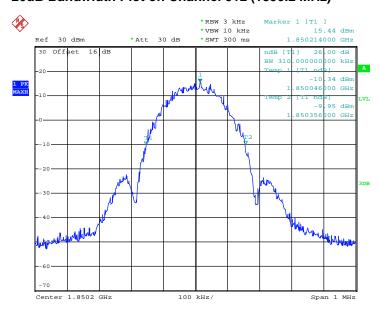
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 17.MAR.2015 00:03:59

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

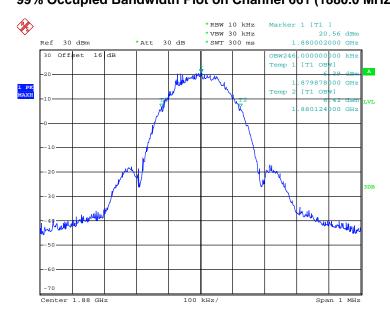


Date: 16.MAR.2015 23:59:15

SPORTON INTERNATIONAL (KUNSHAN) INC.

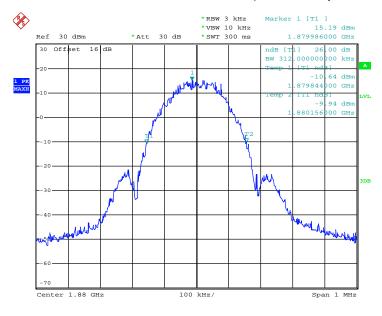
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 41 of 153
Report Issued Date : Apr. 17, 2015
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 17.MAR.2015 00:03:02

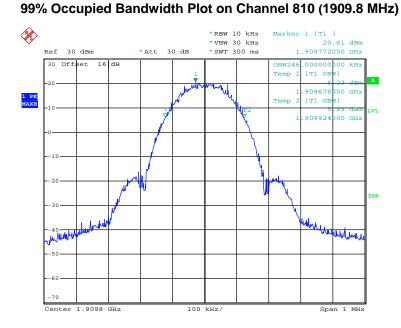
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 16.MAR.2015 23:59:54

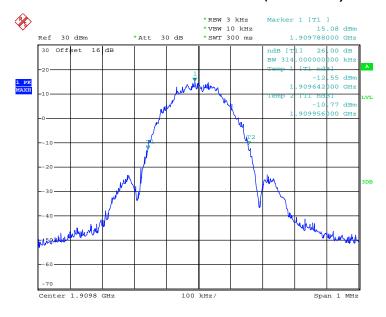
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 42 of 153
Report Issued Date : Apr. 17, 2015

Report No.: FG511301-03A



Date: 17.MAR.2015 00:02:33

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



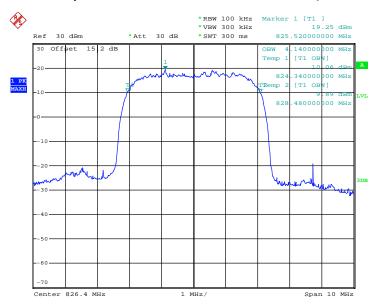
Date: 17.MAR.2015 00:00:29

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 43 of 153
Report Issued Date : Apr. 17, 2015

Report No.: FG511301-03A

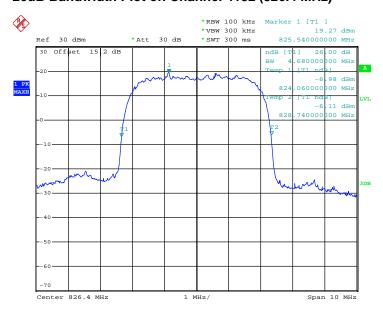
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 16.MAR.2015 21:01:42

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



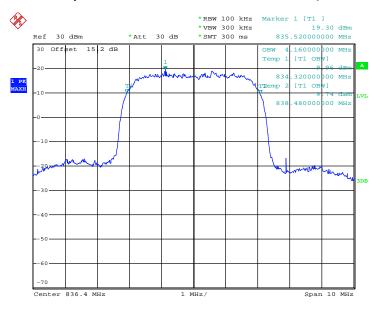
Date: 16.MAR.2015 20:58:08

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 44 of 153
Report Issued Date : Apr. 17, 2015
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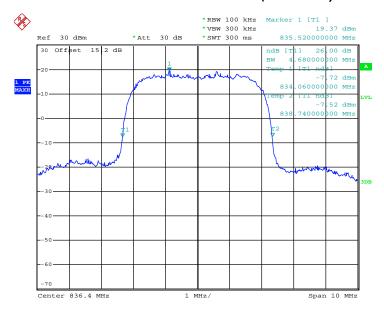
FCC RF Test Report

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



Date: 16.MAR.2015 21:01:08

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 16.MAR.2015 20:59:03

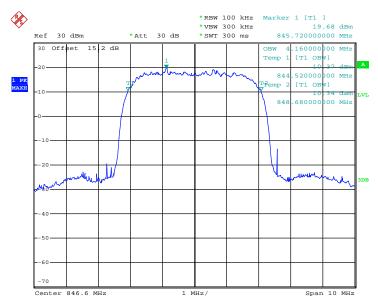
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 45 of 153
Report Issued Date : Apr. 17, 2015

: Rev. 01

Report Version

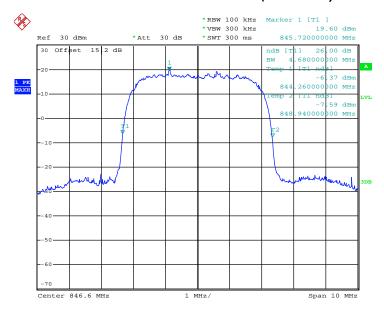
FCC RF Test Report

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



Date: 16.MAR.2015 21:00:36

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 16.MAR.2015 20:59:37

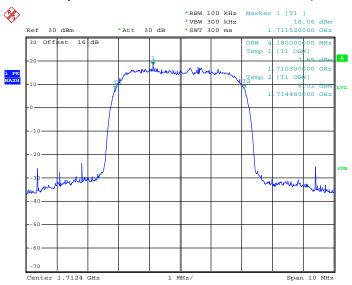
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

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CC RF Test Report Report No.: FG511301-03A

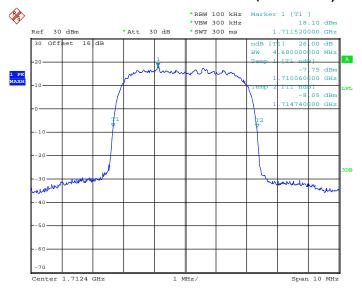
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

99% Occupied Bandwidth Plot on Channel 1312 (1712.4 MHz)



Date: 16.MAR.2015 22:25:46

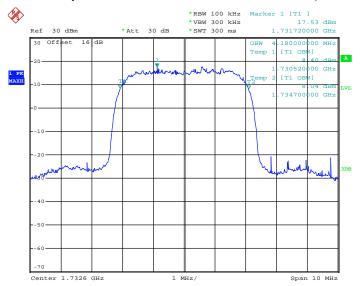
26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



Date: 16.MAR.2015 22:22:59

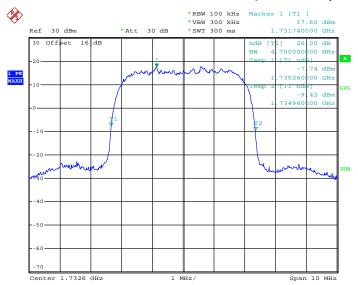
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 47 of 153
Report Issued Date : Apr. 17, 2015

99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 16.MAR.2015 22:25:26

26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 16.MAR.2015 22:23:31

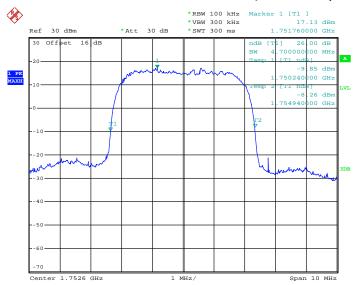
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 48 of 153
Report Issued Date : Apr. 17, 2015
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99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



Date: 16.MAR.2015 22:25:03

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)



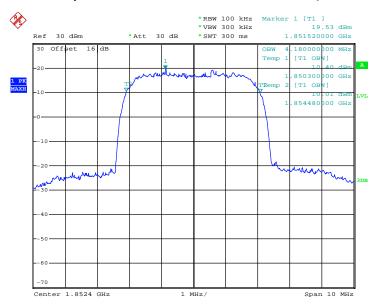
Date: 16.MAR.2015 22:24:06

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 49 of 153
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Report No.: FG511301-03A

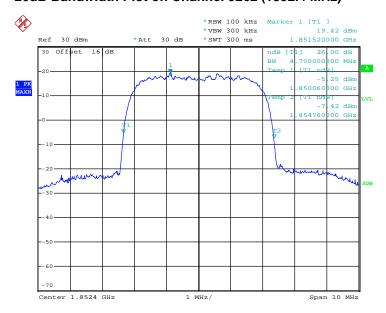
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 16.MAR.2015 21:49:57

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



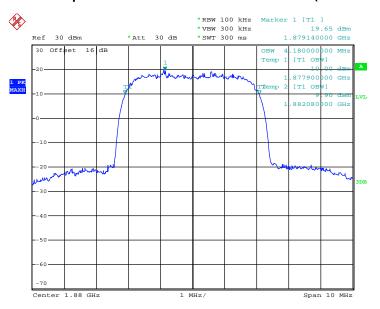
Date: 16.MAR.2015 21:46:49

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 50 of 153
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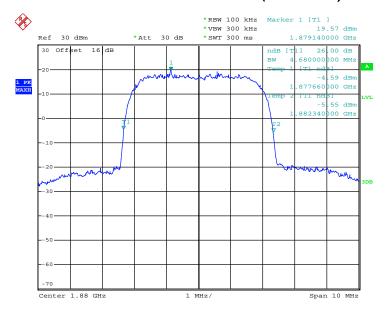
FCC RF Test Report

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



Date: 16.MAR.2015 21:49:26

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

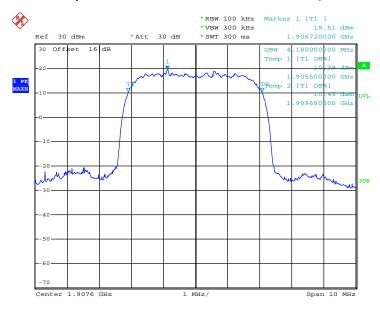


Date: 16.MAR.2015 21:47:14

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 51 of 153
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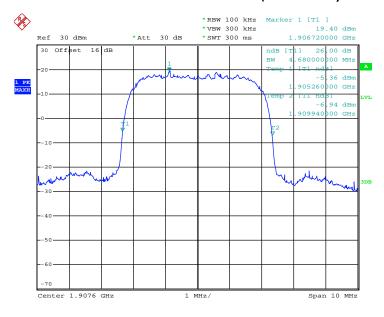
Report No.: FG511301-03A

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



Date: 16.MAR.2015 21:48:59

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 16.MAR.2015 21:47:46

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

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Report No.: FG511301-03A

3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

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

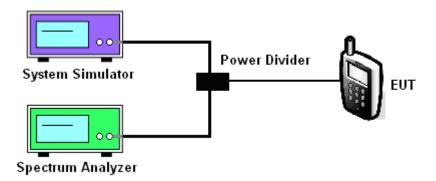
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. 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.
- The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) 6.
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.4 Test Setup



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

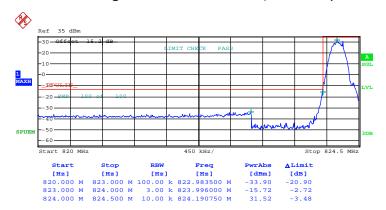
: 53 of 153 Page Number Report Issued Date: Apr. 17, 2015

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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)	

Lower Band Edge Plot on Channel 128 (824.2 MHz)

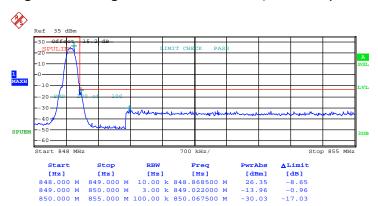


Date: 16.MAR.2015 19:21:14

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 54 of 153
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Band: GSM850 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)

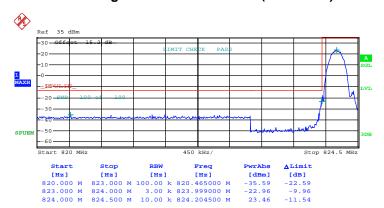


Date: 24.MAR.2015 10:04:57

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 55 of 153
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Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)

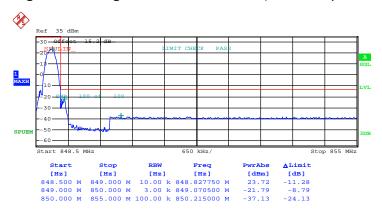


Date: 16.MAR.2015 20:36:41

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 56 of 153
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Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)

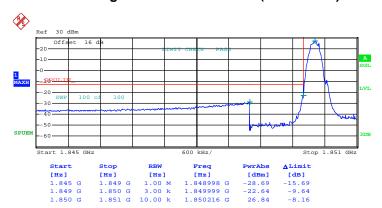


Date: 16.MAR.2015 20:39:10

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 57 of 153
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Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

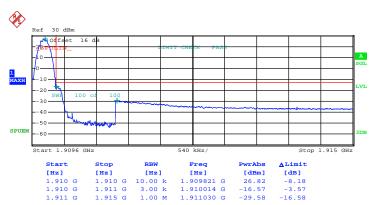


Date: 16.MAR.2015 23:07:17

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 58 of 153
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Band: GSM1900 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

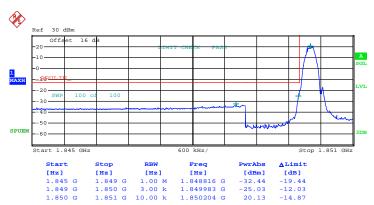


Date: 16.MAR.2015 23:09:29

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 59 of 153
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Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

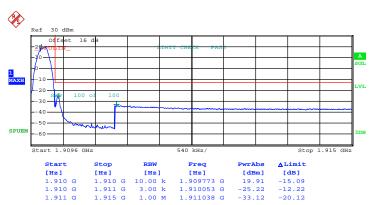


Date: 17.MAR.2015 00:12:05

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 60 of 153
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Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

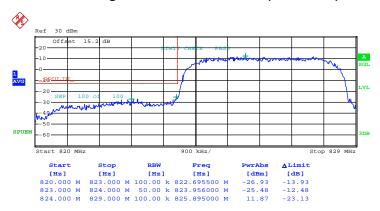


Date: 17.MAR.2015 00:15:12

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 61 of 153
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 4132 (826.4 MHz)

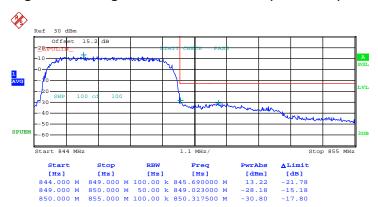


Date: 16.MAR.2015 21:07:38

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 62 of 153
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 4233 (846.6 MHz)

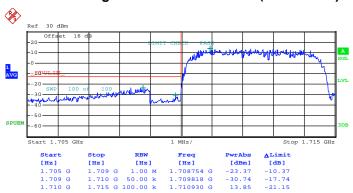


Date: 16.MAR.2015 21:09:35

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 63 of 153
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Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)

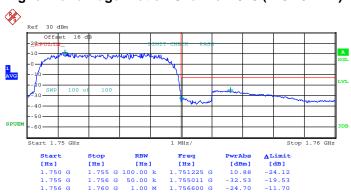


Date: 17.MAR.2015 15:29:46

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 64 of 153
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Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)

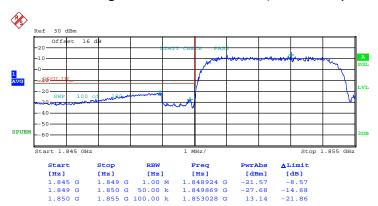


Date: 16.MAR.2015 22:35:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 65 of 153
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)

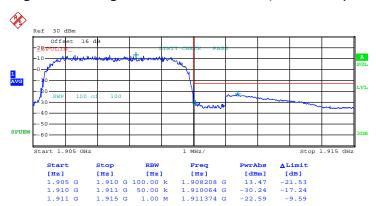


Date: 16.MAR.2015 21:57:56

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 66 of 153
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 16.MAR.2015 22:00:04

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 67 of 153
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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 v02r02 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.

3.6.4 Test Setup



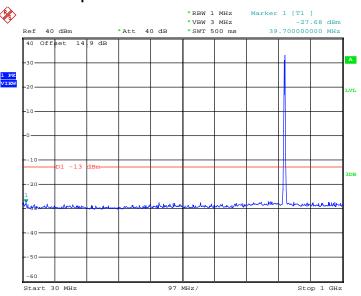
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 68 of 153
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

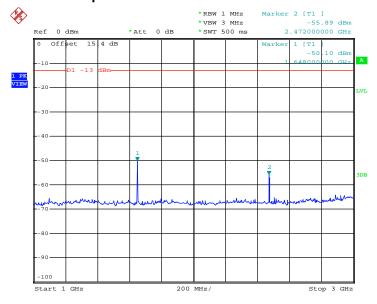
Band :	GSM850	Channel:	CH128
Test Mode :	GSM Link (GMSK)	Frequency:	824.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2015 19:52:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



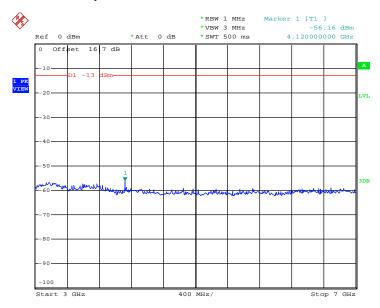
Date: 16.MAR.2015 19:58:14

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 69 of 153
Report Issued Date : Apr. 17, 2015

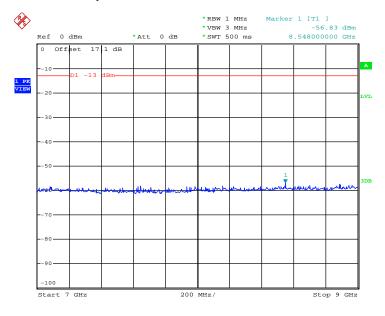
Report No.: FG511301-03A

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 19:59:37

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



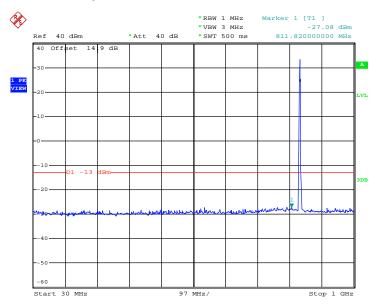
Date: 16.MAR.2015 20:03:47

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 70 of 153
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Report No.: FG511301-03A

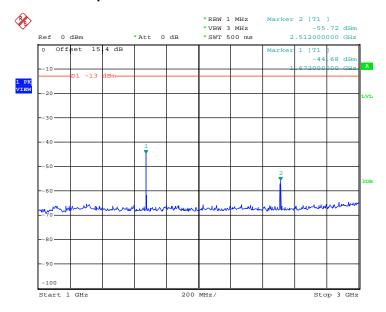
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2015 19:54:07

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

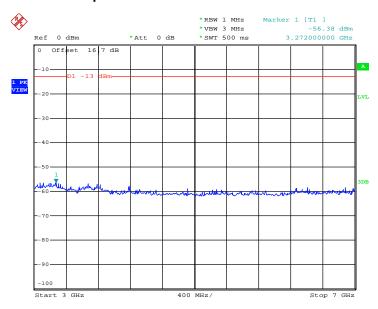


Date: 16.MAR.2015 19:57:33

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 71 of 153
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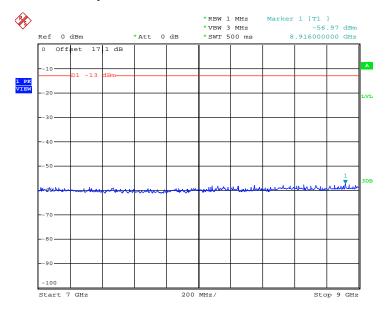
Report No.: FG511301-03A

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 20:00:22

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

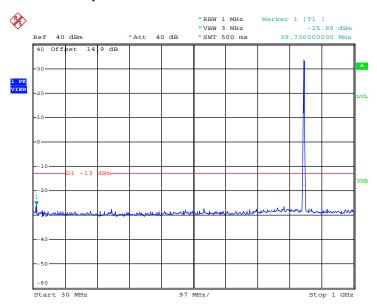


Date: 16.MAR.2015 20:03:21

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 72 of 153
Report Issued Date : Apr. 17, 2015

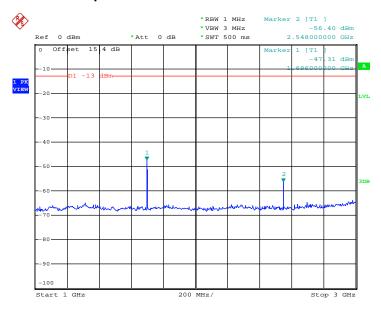
Report No.: FG511301-03A

Band :	GSM850	Channel:	CH251
Test Mode :	GSM Link (GMSK)	Frequency:	848.8 MHz



Date: 16.MAR.2015 19:54:40

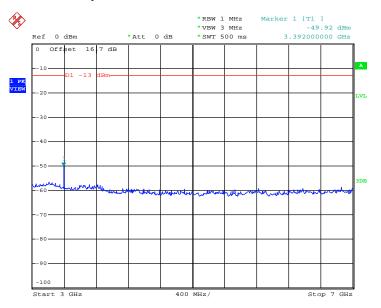
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 19:57:00

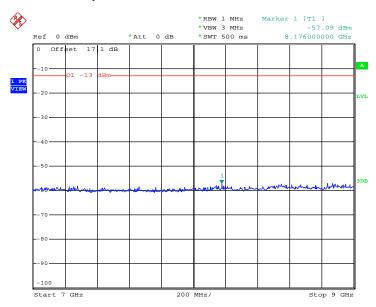
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 73 of 153
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Date: 16.MAR.2015 20:01:08

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 16.MAR.2015 20:02:39

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 74 of 153
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Report No.: FG511301-03A

Band :	GSM850	Channel:	CH128
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	824.2 MHz

Report No.: FG511301-03A

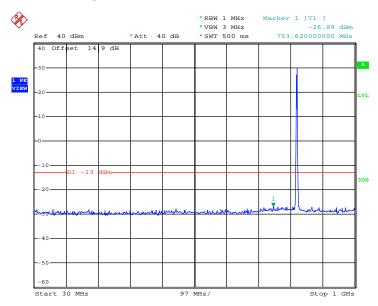
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Report Issued Date: Apr. 17, 2015

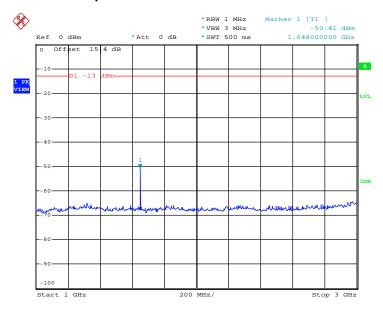
Page Number

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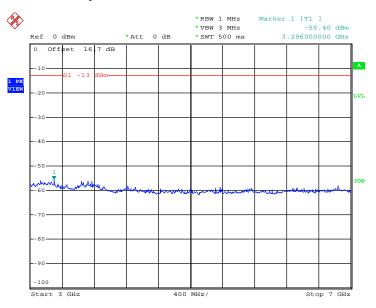
Date: 16.MAR.2015 20:20:56

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



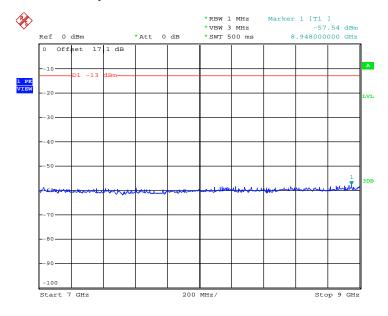
Date: 16.MAR.2015 20:15:01

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002



Date: 16.MAR.2015 20:13:44

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

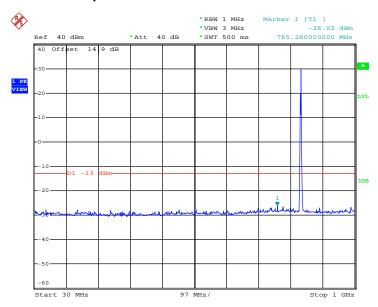


Date: 16.MAR.2015 20:52:58

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 76 of 153
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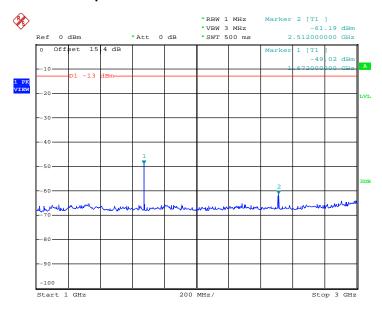
Report No.: FG511301-03A

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



Date: 16.MAR.2015 20:19:45

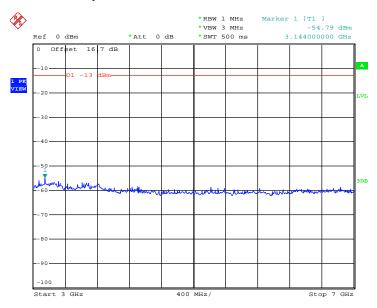
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 20:16:11

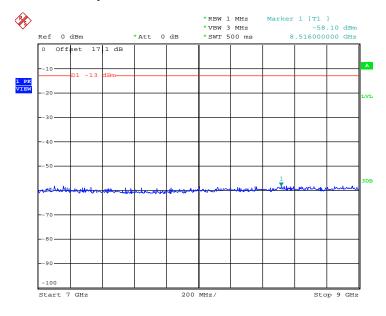
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 77 of 153
Report Issued Date : Apr. 17, 2015

Report No.: FG511301-03A



Date: 16.MAR.2015 20:13:08

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 16.MAR.2015 20:10:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 78 of 153
Report Issued Date : Apr. 17, 2015

Report No.: FG511301-03A

Band :	GSM850	Channel:	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	848.8 MHz

Report No.: FG511301-03A

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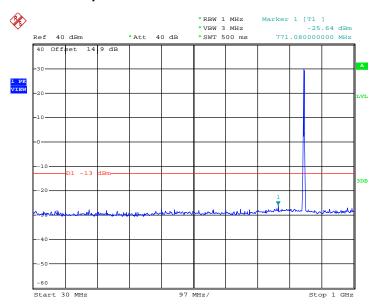
: Rev. 01

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Page Number

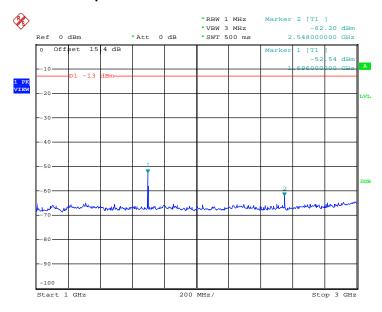
Report Version

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



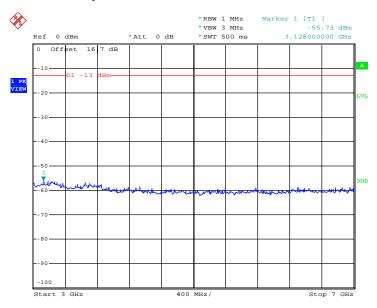
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



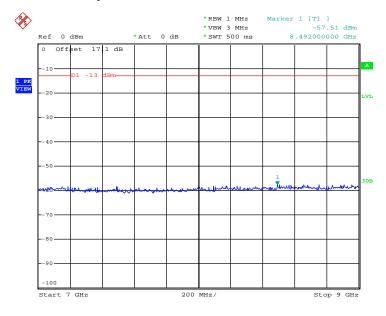
Date: 16.MAR.2015 20:17:03

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002



Date: 16.MAR.2015 20:12:40

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

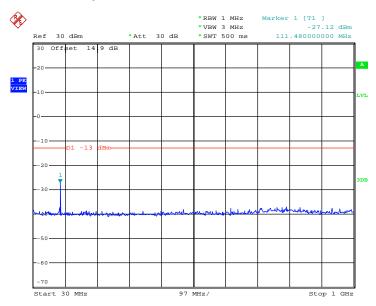


Date: 16.MAR.2015 20:11:28

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 80 of 153
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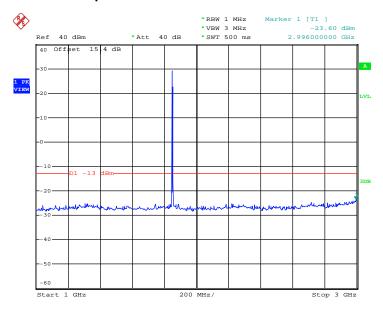
Report No.: FG511301-03A

Band :	GSM1900	Channel:	CH512
Test Mode :	GSM Link (GMSK)	Frequency:	1850.2 MHz



Date: 16.MAR.2015 23:12:25

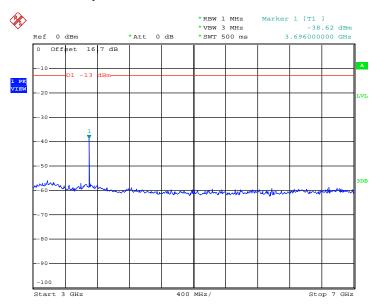
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 23:14:02

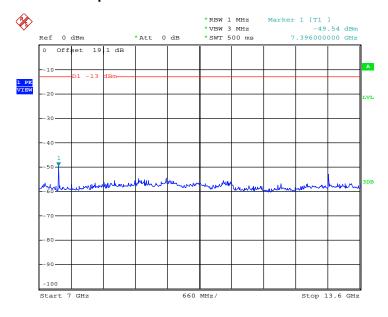
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 81 of 153
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Report No.: FG511301-03A



Date: 16.MAR.2015 23:18:30

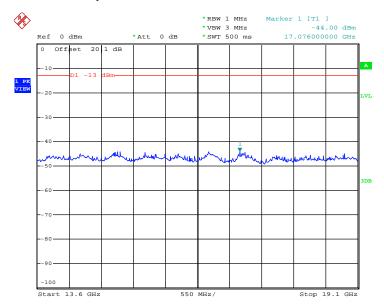
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 23:21:16

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 82 of 153
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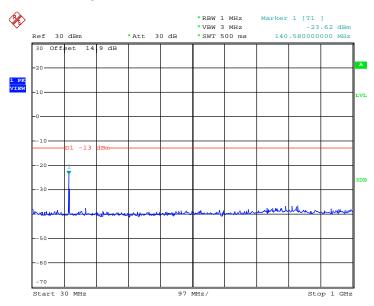
Report No.: FG511301-03A



Date: 16.MAR.2015 23:26:06

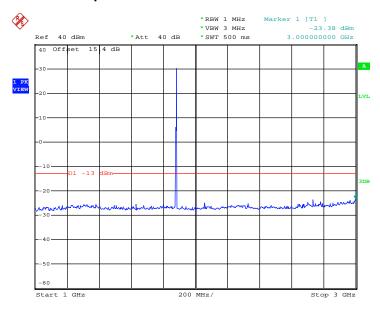
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 83 of 153
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Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz



Date: 16.MAR.2015 23:11:58

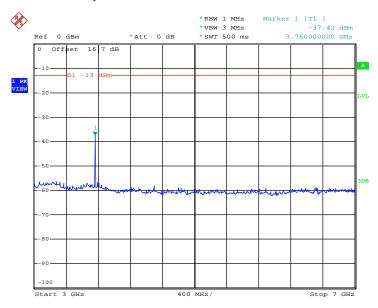
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 23:15:06

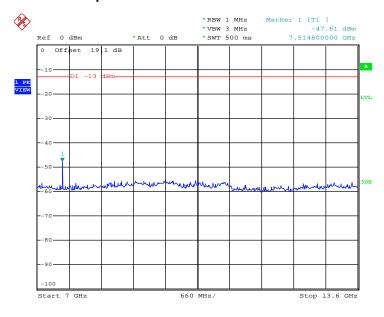
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 84 of 153
Report Issued Date : Apr. 17, 2015

Report No.: FG511301-03A



Date: 16.MAR.2015 23:17:57

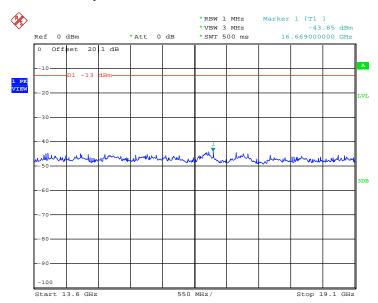
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 23:22:10

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 85 of 153
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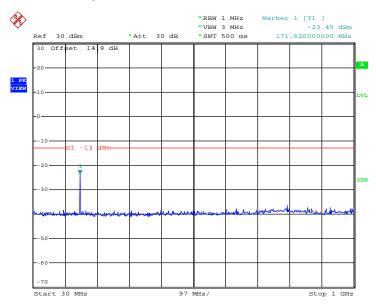
Report No.: FG511301-03A



Date: 16.MAR.2015 23:25:37

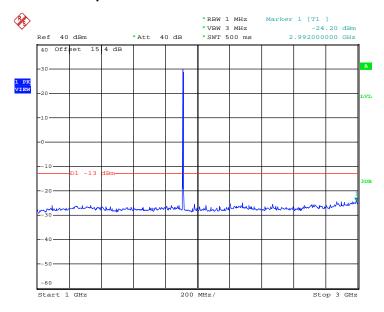
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 86 of 153
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Band :	GSM1900	Channel:	CH810
Test Mode :	GSM Link (GMSK)	Frequency:	1909.8 MHz



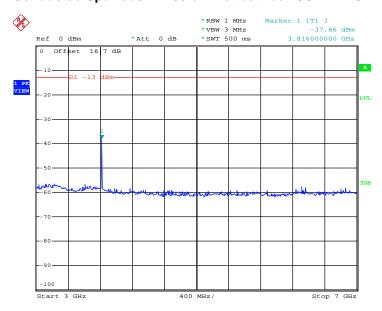
Date: 16.MAR.2015 23:11:22

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



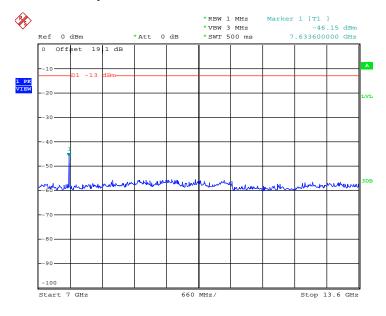
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 87 of 153
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Date: 16.MAR.2015 23:17:10

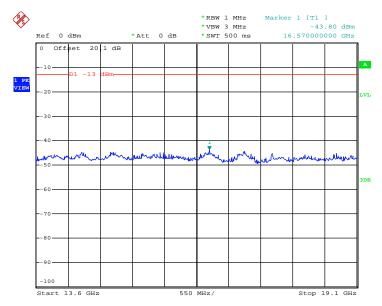
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 23:22:45

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 88 of 153
Report Issued Date : Apr. 17, 2015

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Date: 16.MAR.2015 23:24:46

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 89 of 153
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Band :	GSM1900	Channel:	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1850.2 MHz

Report No.: FG511301-03A

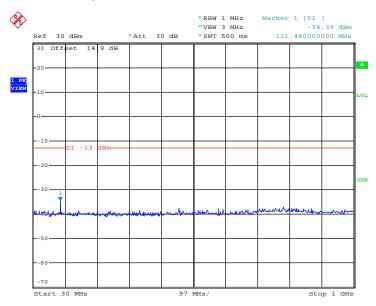
: 90 of 153

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Report Issued Date: Apr. 17, 2015

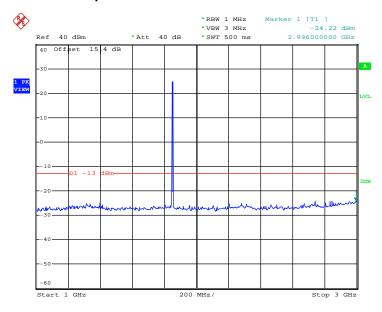
Page Number

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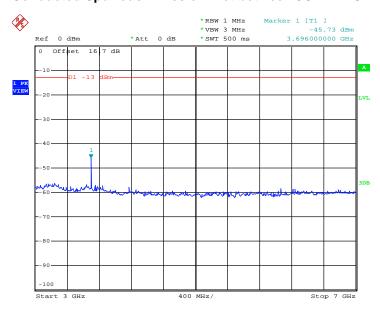
Date: 16.MAR.2015 23:45:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



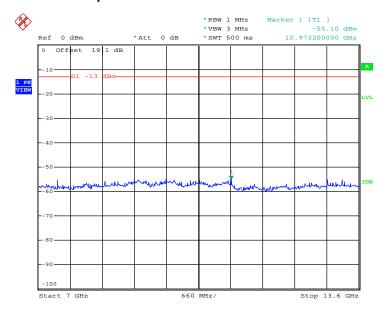
Date: 16.MAR.2015 23:48:31

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002



Date: 16.MAR.2015 23:50:24

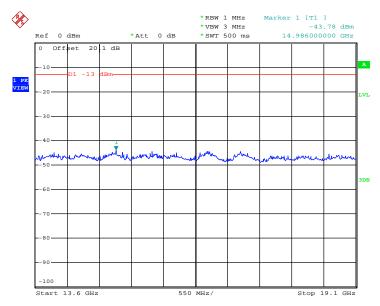
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 23:54:13

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 91 of 153
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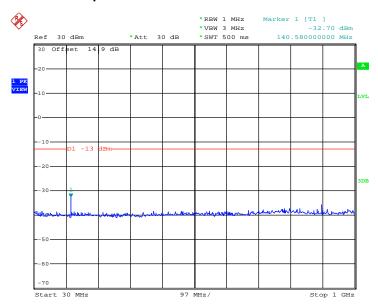
Report No.: FG511301-03A



Date: 16.MAR.2015 23:55:32

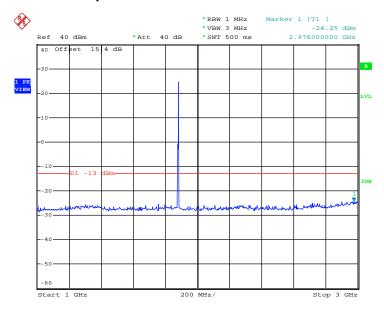
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 92 of 153
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Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz



Date: 16.MAR.2015 23:45:51

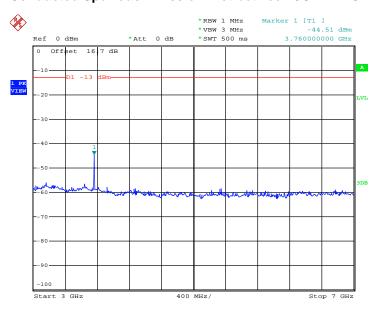
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 23:47:52

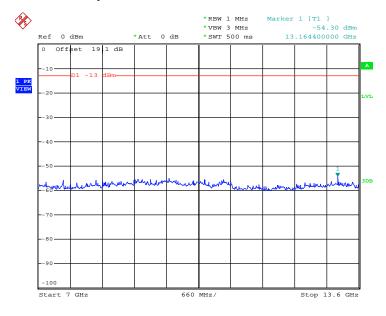
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 93 of 153
Report Issued Date : Apr. 17, 2015

Report No.: FG511301-03A



Date: 16.MAR.2015 23:50:48

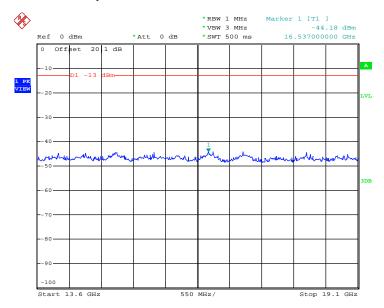
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 23:53:49

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 94 of 153
Report Issued Date : Apr. 17, 2015

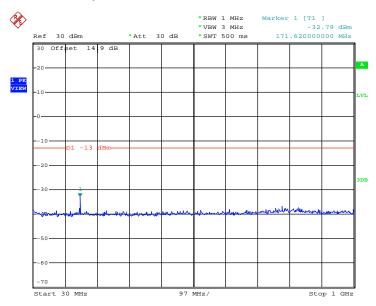
Report No.: FG511301-03A



Date: 16.MAR.2015 23:56:02

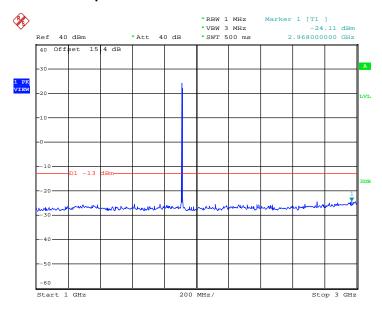
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 95 of 153
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Band :	GSM1900	Channel:	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1909.8 MHz



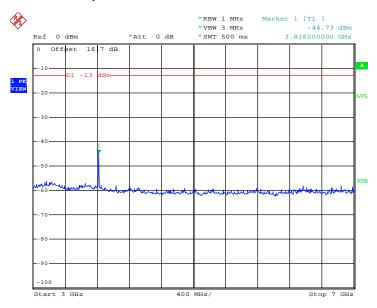
Date: 16.MAR.2015 23:46:11

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



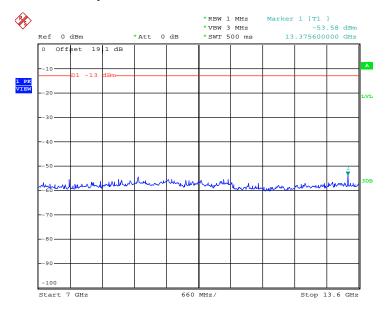
Date: 16.MAR.2015 23:47:19

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 96 of 153
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Date: 16.MAR.2015 23:52:26

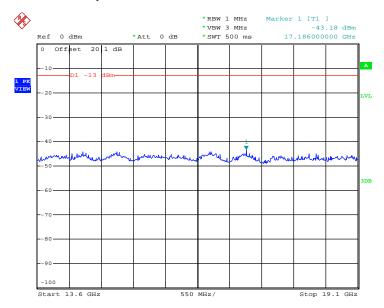
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 23:53:26

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 97 of 153
Report Issued Date : Apr. 17, 2015

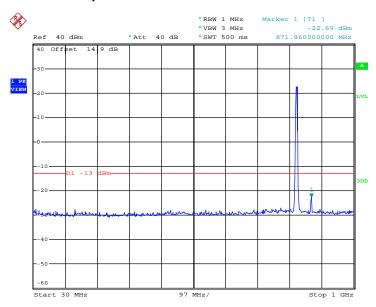
Report No.: FG511301-03A



Date: 16.MAR.2015 23:56:24

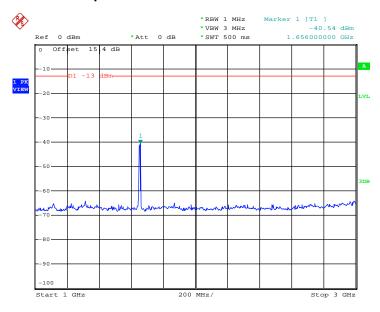
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 98 of 153
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Band :	WCDMA Band V	Channel:	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	826.4 MHz



Date: 16.MAR.2015 21:18:47

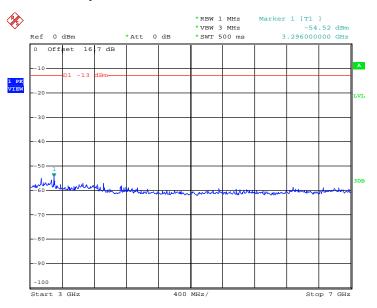
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 21:20:24

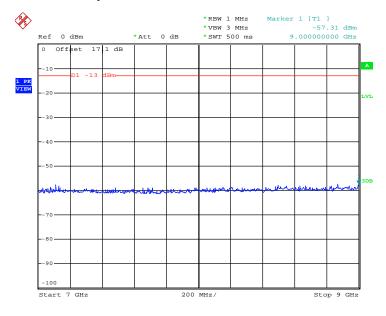
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 99 of 153
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Date: 16.MAR.2015 21:23:30

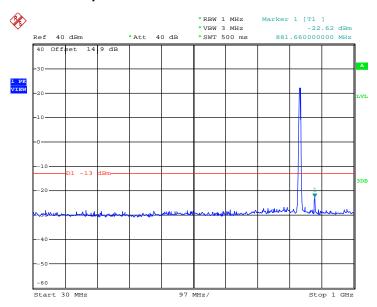
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 16.MAR.2015 21:24:32

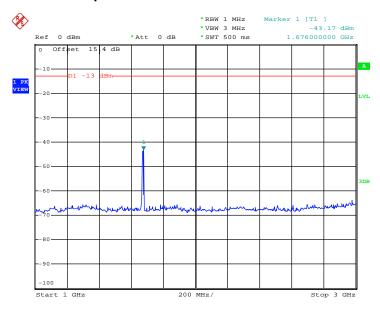
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 100 of 153
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Report Version : Rev. 01

Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz



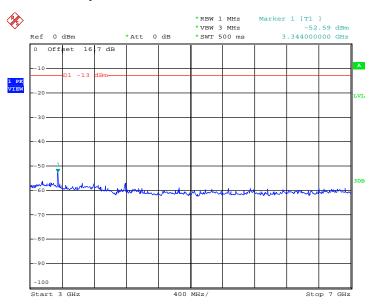
Date: 16.MAR.2015 21:18:18

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



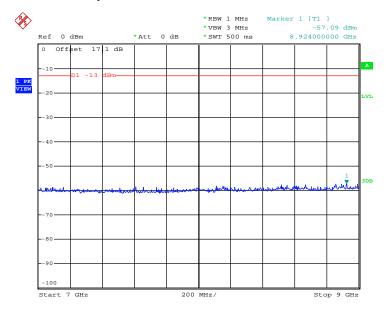
Date: 16.MAR.2015 21:20:46

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 101 of 153
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Date: 16.MAR.2015 21:22:30

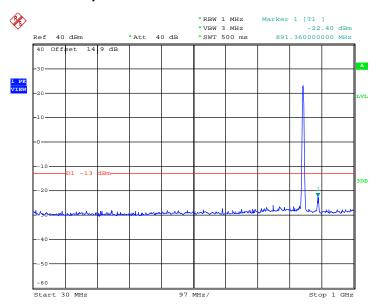
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 16.MAR.2015 21:25:02

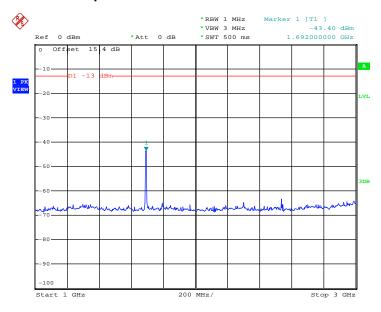
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 102 of 153
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Band :	WCDMA Band V	Channel:	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	846.6 MHz



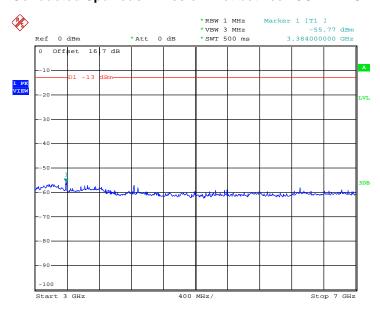
Date: 16.MAR.2015 21:17:46

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



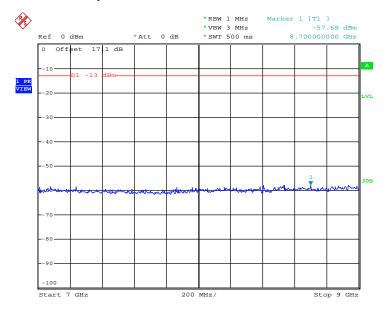
Date: 16.MAR.2015 21:21:10

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 103 of 153
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Date: 16.MAR.2015 21:22:08

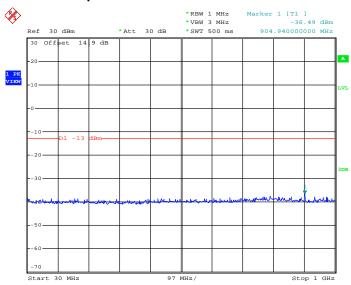
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 16.MAR.2015 21:25:30

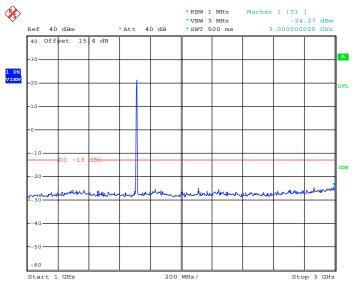
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 104 of 153
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Band :	WCDMA Band IV	Channel:	CH1312
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1712.4 MHz



Date: 16.MAR.2015 22:12:56

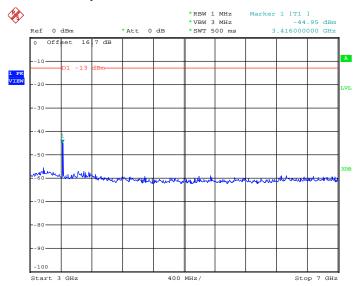
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 22:16:06

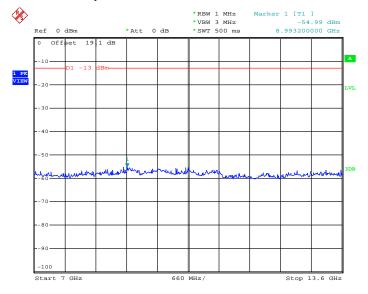
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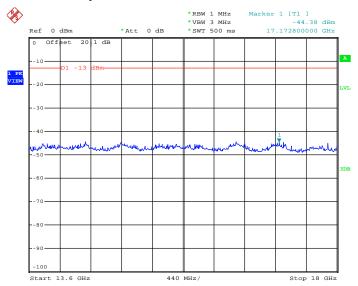
Date: 16.MAR.2015 22:16:58

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 22:19:24

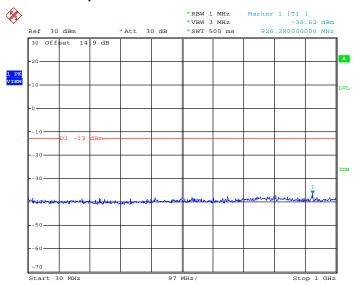
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 106 of 153
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Date: 16.MAR.2015 22:20:19

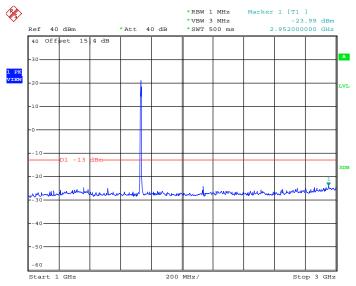
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 107 of 153
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Band :	WCDMA Band IV	Channel:	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1732.6 MHz



Date: 16.MAR.2015 22:13:28

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

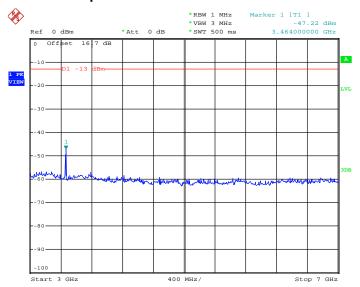


Date: 16.MAR.2015 22:15:31

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 108 of 153
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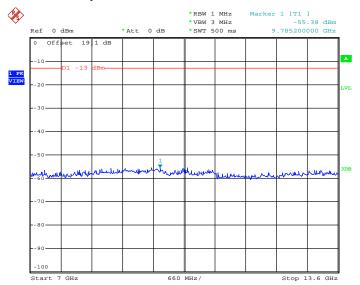
Report No.: FG511301-03A

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 22:17:25

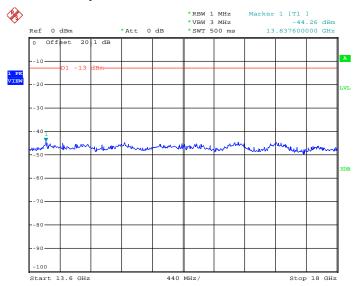
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 22:19:04

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 109 of 153
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Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz

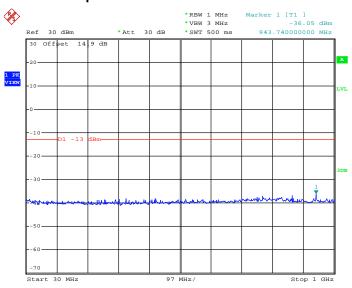


Date: 16.MAR.2015 22:20:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 110 of 153
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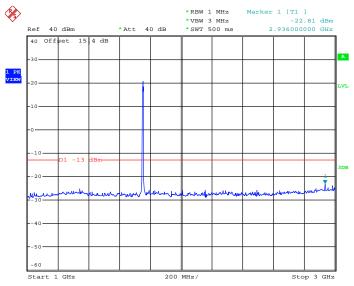
Band :	WCDMA Band IV	Channel:	CH1513
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1752.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2015 22:14:04

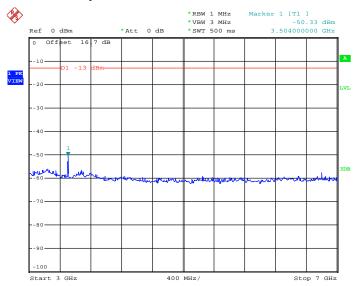
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 22:14:56

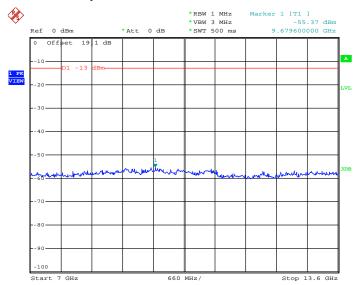
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 111 of 153
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 22:17:50

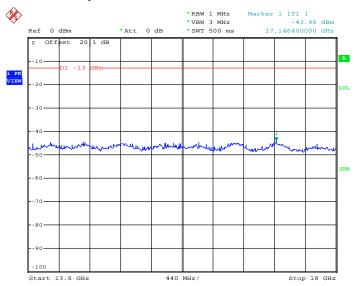
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 22:18:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 112 of 153
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Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz



Date: 16.MAR.2015 22:21:07

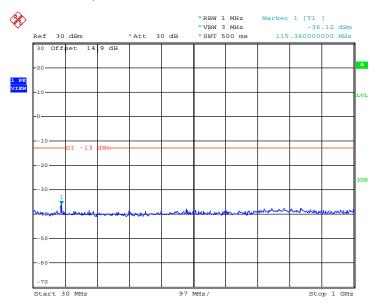
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 113 of 153
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Report No.: FG511301-03A

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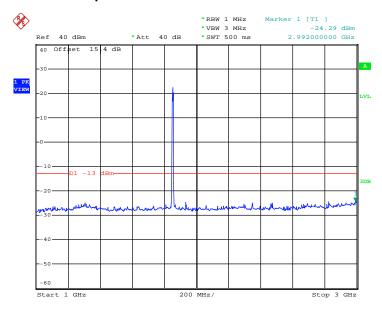
Band :	WCDMA Band II	Channel:	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1852.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2015 21:35:58

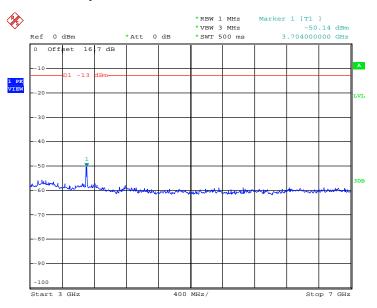
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2015 21:39:19

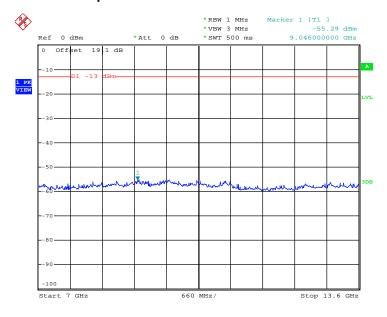
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 114 of 153
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 21:40:20

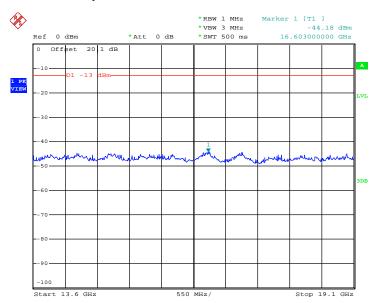
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 21:42:50

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 115 of 153
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

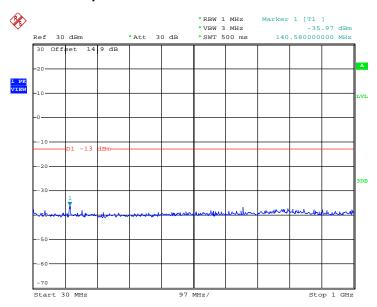


Date: 16.MAR.2015 21:43:52

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 116 of 153
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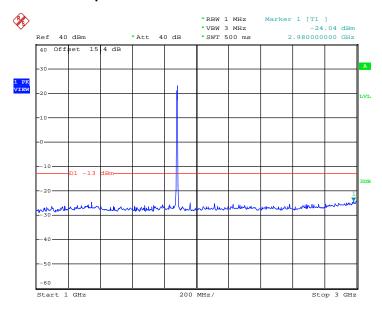
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2015 21:36:24

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



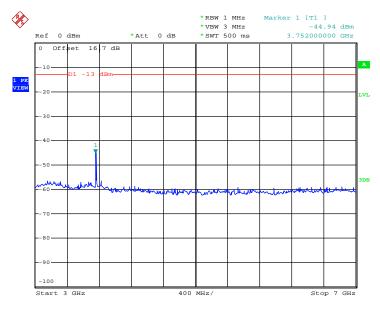
Date: 16.MAR.2015 22:04:02

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 117 of 153
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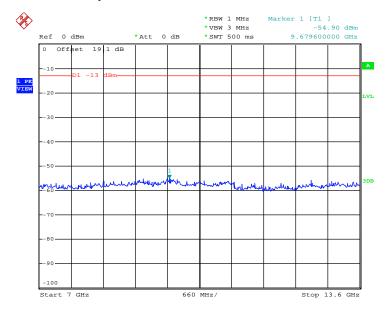
Report Version : Rev. 01

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 22:05:08

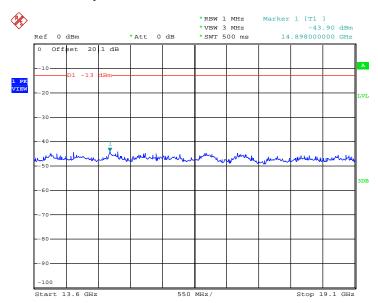
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 21:42:24

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 118 of 153
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



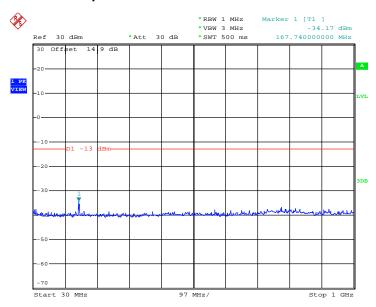
Date: 16.MAR.2015 21:44:17

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 119 of 153
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Band :	WCDMA Band II	Channel:	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1907.6 MHz

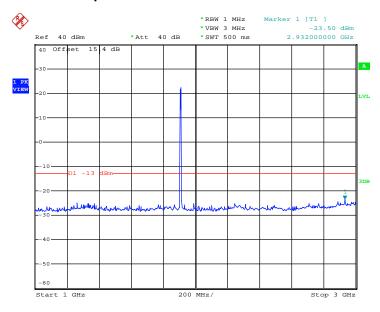
Conducted Spurious Emission Plot between 30MHz ~ 1GHz

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Date: 16.MAR.2015 21:36:50

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



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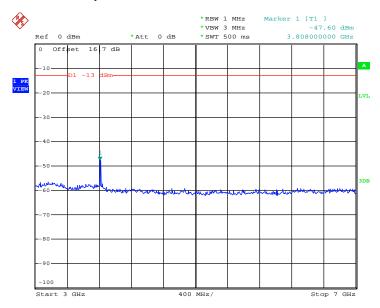
: Rev. 01

Report Issued Date: Apr. 17, 2015

Date: 16.MAR.2015 21:38:09

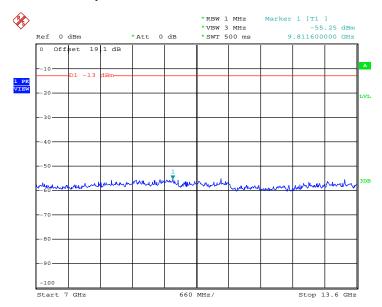
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2015 21:41:12

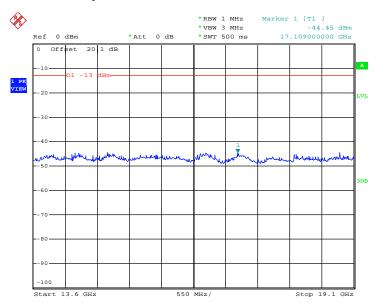
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 16.MAR.2015 21:42:03

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: 2ACCJN002 Page Number : 121 of 153
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 16.MAR.2015 21:44:41

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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.

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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 v02r02 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.

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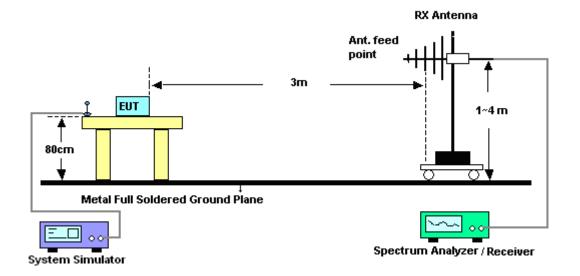
: Rev. 01

Report Issued Date: Apr. 17, 2015

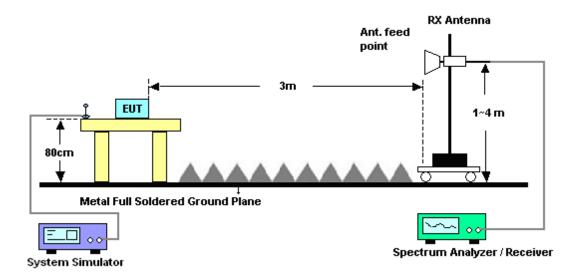
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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 :		GS	M850 fo	r CH128			Temperature	:	23~2	5°C	
Test Mode		GS	M Link (GMSK)			Relative Humidity: 48~52%				
Test Engine	eer :	Sam Li Polarization							Horiz	ontal	
Remark :		Spu	ırious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBı	m)	(dBm)	(dB)	(dBm)	(dBm	(dB)	(dB	i)	(H/V)	
1648.4	-62.	07	-13	-49.07	-59.42	-67.06	0.66	7.8	0	Н	Pass
2472.6	-62.	25	-13	-49.25	-62.43	-68.65	0.85	9.4	0	Н	Pass
3296.8	-61.	73	-13	-48.73	-61.54	-67.80	0.98	9.2	.0	Н	Pass

											1	
Band :		GS	M850 fo	r CH128			Temperature	:	23~25°C			
Test Mode		GS	M Link (GMSK)			Relative Humidity: 48~52%					
Test Engine	er:	Sam Li Polarization : Vertical										
Remark :		Spu	urious en	nissions	within 30-1	1000MHz	were found m	nore tha	n 20d	B below limit	line.	
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
				Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1648.4	-63.3	35	-13	-50.35	-59.83	-68.34	0.66	7.8	80	V	Pass	
2472.6	-62.0	06	-13	-49.06	-62.74	-68.46	0.85	9.4	0	V	Pass	
3296.8	-58.	11	-13	-45.11	-58.97	-64.18	0.98	9.2	20	V	Pass	

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Band :		GSM850 fo	r CH189			Temperature	:	23~25°C			
Test Mode	:	GSM Link (GMSK)			Relative Hun	nidity :	48~52%			
Test Engine	eer:	Sam Li				Polarization	:	Horizontal			
Remark :		Spurious emissions within 30-1000MHz were found more than 20dB below limit							line.		
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polar	rization	Result	
(BALL-)	/ -ID	a \	Limit	Reading	Power	loss	Ga	·	100		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i) (r	1/V)		
1672	-61.5	57 -13	-48.57	-58.92	-66.56	0.66	7.8	0	Н	Pass	
2510	-60.4	11 -13	-47.41	-60.59	-66.81	0.85	9.4	0	Н	Pass	
3346	-61.4	7 -13	-48.47	-61.28	-67.54	0.98	9.2	0	Н	Pass	

Band :	C	GSM850 fo	r CH189			Temperature	:	23~25°C			
Test Mode	: (GSM Link (GMSK)			Relative Humidity: 48~52%					
Test Engine	eer : S	Sam Li Polarization : Vertical									
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1672	-61.6	6 -13	-48.66	-58.14	-66.65	0.66	7.8	0	V	Pass	
2510	-59.4	3 -13	-46.43	-60.11	-65.83	0.85	9.4	0	V	Pass	
3346	-57.6	4 -13	-44.64	-58.50	-63.71	0.98	9.2	.0	V	Pass	

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Band :		GSM850 fo	r CH251			Temperature	:	23~25°C		
Test Mode	:	GSM Link (GMSK)			Relative Humidity: 48~52%			2%	
Test Engine	eer :	Sam Li				Polarization		Horiz	ontal	
Remark :		Spurious er	purious emissions within 30-1000MHz were found more than 20dB belo						B below limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1697.6	-61.2	25 -13	-48.25	-58.60	-66.24	0.66	7.8	0	Н	Pass
2546.4	-58.2	23 -13	-45.23	-58.41	-64.63	0.85	9.4	0	Н	Pass
3395.2	-61.0)1 -13	-48.01	-60.82	-67.08	0.98	9.2	20	Н	Pass

Band :	C	GSM850 fo	r CH251			Temperature	:	23~25°C			
Test Mode	: (GSM Link (GMSK)			Relative Humidity: 48~52%					
Test Engine	eer : S	Sam Li Polarization : Vertical						al			
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1697.6	-62.4	6 -13	-49.46	-58.94	-67.45	0.66	7.8	80	V	Pass	
2546.4	-57.5	1 -13	-44.51	-58.19	-63.91	0.85	9.4	.0	V	Pass	
3395.2	-56.7	6 -13	-43.76	-57.62	-62.83	0.98	9.2	20	V	Pass	

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Band :		GSM850 fo	r CH128			Temperature	:	23~2	5°C		
Test Mode :	:	EDGE class	s 8 Link (8PSK)		Relative Hun	nidity:	48~5	2%		
Test Engine	er:	Sam Li Polarization : Horizon						Horizontal			
Remark :	,	Spurious er	purious emissions within 30-1000MHz were found more than 20dB below limit							line.	
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
1648.4	-64.6	69 -13	-51.69	-62.04	-69.68	0.66	7.8	80	Н	Pass	
2472.6	-62.6	68 -13	-49.68	-62.86	-69.08	0.85	9.4	0	Н	Pass	
3296.8	-64.0)5 -13	-51.05	-63.86	-70.12	0.98	9.2	20	Н	Pass	

Band :	(GSM850 fo	r CH128			Temperature	re: 23~25°C				
Test Mode	: E	EDGE class	s 8 Link (8PSK)		Relative Hum	nidity:	48~52	2%		
Test Engine	eer :	Sam Li				Polarization	:	Vertical			
Remark :	Ş	Spurious emissions within 30-1000MHz were found more						n 20dl	B below limit	line.	
Frequency	ERF		Over Limit	SPA Reading	S.G. Power		Ga	in	Polarization	Result	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)) (dB)	(dE	Si)	(H/V)		
1648.4	-66.4	6 -13	-53.46	-62.94	-71.45	0.66	7.8	0	V	Pass	
2472.6	-61.9	8 -13	-48.98	-62.66	-68.38	0.85	9.4	.0	V	Pass	
3296.8	-62.4	4 -13	-49.44	-63.30	-68.51	0.98	9.2	20	V	Pass	

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Band :	(GSM850 fo	r CH189			Temperature	:	23~25		
Test Mode	: l	EDGE class	s 8 Link (8PSK)		Relative Hun	nidity :	48~52	2%	
Test Engine	eer :	Sam Li				Polarization	:	Horizo	ontal	
Remark :	Ş	Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20dl	B below limit	line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1672	-65.4	3 -13	-52.43	-62.78	-70.42	0.66	7.8	80	Н	Pass
2510	-62.6	13 -13	-49.61	-62.79	-69.01	0.85	9.4	0	Н	Pass
3346	-63.8	37 -13	-50.87	-63.68	-69.94	0.98	9.2	20	Н	Pass

Band :		GSM850 fo	or CH189			Temperature	:	23~25°C		
Test Mode	:	EDGE clas	s 8 Link ((8PSK)		Relative Hum	nidity :	48~52	2%	
Test Engine	eer :	Sam Li				Polarization		Vertic	al	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.
Frequency	ERI	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant		Polarization	Result
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1672	-66.1	18 -13	-53.18	-62.66	-71.17	0.66	7.8	0	V	Pass
2510	-61.2	27 -13	-48.27	-61.95	-67.67	0.85	9.4	.0	V	Pass
3346	-63.2	20 -13	-50.20	-64.06	-69.27	0.98	9.2	20	V	Pass

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Band :		GSM850 fo	r CH251			Temperature	:	23~2	5°C	
Test Mode	: 1	EDGE clas	s 8 Link (8PSK)		Relative Hun	nidity :	48~5	2%	
Test Engine	eer :	Sam Li				Polarization	:	Horiz	ontal	
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
1697.6	-65.7	79 -13	-52.79	-63.14	-70.78	0.66	7.8	0	Н	Pass
2546.4	-61.8	31 -13	-48.81	-61.99	-68.21	0.85	9.4	.0	Н	Pass
3395.2	-64.1	13 -13	-51.13	-63.94	-70.20	0.98	9.2	:0	Н	Pass

Band :		GSM850 fo	r CH251			Temperature	:	23~25°C		
Test Mode	:	EDGE clas	s 8 Link (8PSK)		Relative Hum	nidity :	48~52	2%	
Test Engine	eer :	Sam Li				Polarization		Vertic	al	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.
Frequency	ERF	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant		Polarization	Result
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1697.6	-66.9	96 -13	-53.96	-63.44	-71.95	0.66	7.8	0	V	Pass
2546.4	-61.7	79 -13	-48.79	-62.47	-68.19	0.85	9.4	0	V	Pass
3395.2	-63.1	11 -13	-50.11	-63.97	-69.18	0.98	9.2	0	V	Pass

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Band :		GSM1900 1	or CH51	2		Temperature	:	23~25°C		
Test Mode	:	GSM Link (GMSK)			Relative Hun	nidity :	48~52	2%	
Test Engine	eer :	Sam Li				Polarization	:	Horizo	ontal	
Remark :		Spurious e	missions	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
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3700.4	-56.0	, , ,	-43.03	-63.59	-67.38	, ,	12.0		H	Pass
5550.6	-50.1	10 -13	-37.10	-63.78	-61.77	1.43	13.	10	Н	Pass
7400.8	-51.1	17 -13	-38.17	-60.21	2.26	11.3	30	Н	Pass	

					,						
Band :		GSM1900 f	or CH51	2		Temperature	:	23~2	23~25°C		
Test Mode	: (GSM Link (GMSK)			Relative Hum	nidity :	48~5	2%		
Test Engine	eer :	Sam Li				Polarization		Vertic	al		
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm	1) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3700.4	-54.7	6 -13	-41.76	-63.62	-66.11	1.25	12.	6	V	Pass	
5550.6	-50.9	8 -13	-37.98	-65.12	-62.65	1.43	13.	.1	V	Pass	
7400.8	-50.5	3 -13	-37.53	-65.06	-59.57	57 2.26 11.3 V			V	Pass	

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Band :		GSM1900	for CH66	1		Temperature	:	23~25°C		
Test Mode	:	GSM Link	(GMSK)			Relative Hun	nidity :	48~5	2%	
Test Engine	eer :	Sam Li				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found n	nore tha	n 20d	IB below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBr	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3760	-56.6	, , ,	-43.61	-64.17	-67.96	,	12.	,	Н	Pass
5640	-51.1	10 -13	-38.10	-64.78	-62.77	1.43	13.	10	Н	Pass
7520	-49.7	79 -13	-36.79	-63.84	-58.83	2.26	11.3	30	Н	Pass

Band :		GSM1900 f	or CH66	1		Temperature	:	23~2	5°C	
Test Mode	:	GSM Link (GMSK)			Relative Hum	nidity :	48~52	2%	
Test Engine	eer :	Sam Li				Polarization		Vertic	al	
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency (MHz)	EIRI (dBn		Limit Over SPA S.G. Limit Reading Powe				TX Ant Ga (dE	in	Polarization (H/V)	Result
3760	-55.3	, (,	-42.35	-64.21	(dBm)	•	12.		V	Pass
5640	-51.4	l3 -13	-38.43	-65.57	-63.10	1.43	13.	1	V	Pass
7520	-49.6	88 -13	-36.68	-64.21	-58.72	2.26	11.	3	V	Pass

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Band :		GSM1900 f	or CH81	0		Temperature	:	23~2	5°C	
Test Mode	:	GSM Link (GMSK)			Relative Hum	nidity :	48~5	2%	
Test Engine	eer:	Sam Li				Polarization		Horiz	ontal	
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20c	IB below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3819.6	-56.1	, , ,	-43.16	-63.72	-67.51	1.25	12.	60	H	Pass
5729.4	-51.4	l6 -13	-38.46	-65.14	-63.13	1.43	13.	10	Н	Pass
7639.2	-49.7	8 -13 -36.78 -63.83 -58.8				2.26	11.3	30	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	eer :	Sam Li				Polarization	:	Vertica	al	
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dE	3 below limit	line.
Frequency (MHz)	EIRI (dBn		Limit Over SPA S.G. Limit Reading Powe				TX Ant Ga (dE	in	Polarization (H/V)	Result
3819.6	-54.8	, ()	-41.85	-63.71	-66.20	•	12.		V	Pass
5729.4	-50.9	91 -13	-37.91	-65.05	-62.58	1.43	13.	1	V	Pass
7639.2	-49.9	3 -13	-36.93	-64.46	-58.97	2.26	11.	3	V	Pass

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Band :		GSM1900 f	or CH51	2		Temperature	:	23~2	5°C	
Test Mode :	:	EDGE class	s 8 Link (8PSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	eer :	Sam Li				Polarization	ontal			
Remark :		Spurious er	ious emissions within 30-1000MHz were found more than 20dB belo						IB below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3700.4	-56.5	57 -13	-43.57	-64.13	-67.92	1.25	12.0	60	Н	Pass
5550.6	-51.6	88 -13	-38.68	-65.36	-63.35	1.43	13.	10	Н	Pass
7400.8	-51.0	6 -13 -38.06 -65.11 -60				2.26	11.3	30	Н	Pass

Band :	(GSM1900 f	or CH51	2		Temperature	:	23~25°C		
Test Mode	:	EDGE class	s 8 Link ((8PSK)		Relative Hum	nidity:	48~529	%	
Test Engine	eer :	Sam Li				Polarization	:	Vertica	ıl	
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dB	below limit	line.
Frequency (MHz)	EIRF		Limit Over SPA S.G. Limit Reading Power				TX Ant Gai	in	Polarization (H/V)	Result
3700.4	-54.8	34 -13	-41.84	-63.7	-66.19	•	12.	6	V	Pass
5550.6	-50.8	37 -13	-37.87	-65.01	-62.54	1.43	13.	1	V	Pass
7400.8	-50.9	9 -13 -37.99 -65.52 -60.				2.26	11.	3	V	Pass

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Band :		GSM1900	for CH66	1		Temperature	:	23~2	5°C	
Test Mode	:	EDGE clas	s 8 Link (8PSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer:	Sam Li				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found n	nore tha	n 20d	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Result	
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Si)	(H/V)	
3760	-56.2	29 -13	-43.29	-63.85	-67.64	1.25	12.	60	Н	Pass
5640	-51.1	.12 -13 -38.12 -64.80 -62		-62.79	1.43	13.10 H		Н	Pass	
7520	-51.1	12 -13	-38.12	-65.17	-60.16	2.26	11.3	30	Н	Pass

Band :	(GSM1900 f	or CH66	1		Temperature	:	23~25°C			
Test Mode	: E	EDGE class	s 8 Link (8PSK)		Relative Hum	nidity:	48~52	2%		
Test Engine	eer :	Sam Li				Polarization	:	Vertic	al		
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	EIRF		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
3760	-54.6	6 -13	-41.66	-63.52	-66.01	1.25	12	.6	V	Pass	
5640	-51.0	3 -13	-38.03	-65.17	-62.70	1.43	13	.1	V	Pass	
7520	-50.4	4 -13	-37.44	-64.97	-59.48	2.26	11.	.3	V	Pass	

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Band :		GSM1900	for CH81	0		Temperature	:	23~2	5°C	
Test Mode	:	EDGE clas	s 8 Link ((8PSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer :	Sam Li				Polarization	:	Horiz	ontal	
Remark :		Spurious e	missions	within 30-	1000MHz	were found n	nore tha	n 20d	B below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Result	
(MU=)	/ dD:=	m \ /dPm \	Limit	Reading	Power	loss	Ga (de		(HAA	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	1)	(H/V)	
3819.6	-56.2	29 -13	-43.29	-63.85	-67.64	1.25	12.0	60	Н	Pass
5729.4	-51.7	71 -13	-38.71	-65.39	-63.38	1.43	13.	10	Н	Pass
7639.2	-50.9					2.26	11.3	30	Н	Pass

Band :	(GSM1900 f	or CH81	0		Temperature	:	23~2	5°C	
Test Mode	: E	EDGE class	s 8 Link (8PSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	eer :	Sam Li				Polarization :	:	Vertic	al	
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency (MHz)	EIRF		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result
3819.6	-54.8	0 -13	-41.80	-63.66	-66.15	1.25	12.	6	V	Pass
5729.4	-50.2	6 -13	-37.26	-64.4	-61.93	1.43	13.	.1	V	Pass
7639.2	-50.0	06 -13 -37.06 -64.59 -59.				2.26	11.	3	V	Pass

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Band :	,	WCDMA Ba	and V for	CH4132		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	48~5	2%	
Test Engine	er:	Sam Li				Polarization	:	Horiz	ontal	
Remark :	,	Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1652.8	-59.4	16 -13	-46.46	-56.81	-64.45	0.66	7.8	80	Н	Pass
2479.2	-61.1	9 -13	-48.19	-61.37	-67.59	0.85	9.4	0	Н	Pass
3305.6	-63.6	88 -13					9.2	20	Н	Pass

Band :	V	NCDMA Ba	and V for	CH4132		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	48~5	2%		
Test Engine	eer : S	Sam Li				Polarization :	al				
Remark :	5	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	ERP	P Limit Over SPA S.G Limit Reading Pow				TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
1652.8	-60.6	9 -13	-47.69	-57.17	-65.68	0.66	7.8		V	Pass	
2479.2	-61.3	9 -13	-48.39	-62.07	-67.79	0.85	9.4	.0	V	Pass	
3305.6	-62.6					0.98	9.2	.0	V	Pass	

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Band :	,	WCDMA Ba	and V for	CH4182		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	eer:	Sam Li				Polarization		Horiz	ontal	
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1672	-59.6	3 -13	-46.63	-56.98	-64.62	0.66	7.8		Н	Pass
2510	-61.6	.68 -13 -48.68 -61.86 -68		-68.08	0.85	9.4	0	Н	Pass	
3346	-63.8	32 -13					9.2	20	Н	Pass

Band :		WCDM.	A Bai	nd V for	CH4182		Temperatur	е .	23~2	5°C	
Dana .				110 1 101	002		Tomporatar	· .			
Test Mode	•	RMC 12	2.2Kt	ps Link	(QPSK)		Relative Hu	midity:	48~52	2%	
Test Engine	eer:	Sam Li					Polarization) :	Vertic	al	
Remark :		Spuriou	s em	nissions	within 30-1	1000MHz	were found	more tha	n 20d	B below limit	line.
Frequency	ERI	P Lin	nit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) (dB	m)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1672	-61.8	33 -1	3	-48.83	-58.31	-66.82	0.66	7.8	0	V	Pass
2510	-61.0	04 -13 -48.04 -61.72 -67.4				-67.44	0.85	9.4	0	V	Pass
3346	-61.9	92 -1	3	-48.92	-62.78	-67.99	0.98	9.2	0	V	Pass

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Band :	1	WCDMA Ba	and V for	CH4233		Temperature	:	23~25°(С	
Test Mode	:	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	48~52%	6	
Test Engine	eer :	Sam Li				Polarization	:	Horizon	ital	
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB l	below limit	line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable			olarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
1693.2	-57.1	4 -13	-44.14	-54.49	-62.13	0.66	7.8	0	Н	Pass
2539.8	-62.2	26 -13 -49.26 -62.44 -68.			-68.66	0.85	9.4	0	Н	Pass
3386.4	-63.7	2 -13 -50.72 -63.53 -69				0.98	9.2	20	Н	Pass

Band :	\	NCDMA Ba	and V for	CH4233		Temperature	:	23~25	5°C	
Test Mode	: I	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~52	2%	
Test Engine	eer :	Sam Li				Polarization	:	Vertic	al	
Remark :	Ş	Spurious er	missions	within 30-1	1000MHz	were found m	ore tha	n 20dE	B below limit	line.
Frequency (MHz)	ERF	Limit Over SPA S.G Limit Reading Pow				TX Cable loss	TX Ant Ga (dE	in	Polarization (H/V)	Result
1693.2	-57.2	, (,	-44.28	-53.76	-62.27	0.66	7.8	,	V	Pass
2539.8	-62.1	7 -13	-49.17	-62.85	-68.57	0.85	9.4	.0	V	Pass
3386.4	-62.3	-13	-49.31	-63.17	-68.38	0.98	9.2	0	V	Pass

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Band :	,	WCDMA B	and IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode :	:	RMC 12.2k	(bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer:	Sam Li				Polarization	:	Horiz	ontal	
Remark :	,	Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20c	B below limit	line.
Frequency	EIR	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant		Polarization	Result
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3424.8	-51.9	90 -13	-38.90	-64.31	-58.80	1.4	8.3	80	Н	Pass
5137.2	-47.2	27 -13 -34.27 -65.71 -5		-55.92	1.65	10.30 H		Н	Pass	
6849.6	-42.4	19 -13	-29.49	-64.73	-53.04	1.85	12.	40	Н	Pass

Band :	٧	VCDMA Ba	and IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52	2%	
Test Engine	eer :	Sam Li				Polarization		Vertic	al	
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRF	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	Bi)	(H/V)	
3424.8	-49.0	9 -13	-36.09	-64.38	-55.99	1.4	8.3	3	V	Pass
5137.2	-48.3	1 -13	-35.31	-65.84	-56.96	1.65	10.	.3	V	Pass
6849.6	-42.4	5 -13	-29.45	-65	-53.00	1.85	12.	4	V	Pass

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Band :		WCDMA B	and IV fo	r CH1413		Temperature	:	23~2	5°C		
Test Mode	:	RMC 12.2k	(bps Link	(QPSK)		Relative Hun	nidity:	48~5	48~52%		
Test Engine	eer :	Sam Li				Polarization	ontal				
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	IB below limit	line.	
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
(MHz)	(dBr	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
(IVITIZ)	(ubi	ii) (ubiii)	(ub)	(ubili)	(ubili	(ub)	(uE)) <u> </u>	(П/У)		
3465	-50.1	14 -13	-37.14	-62.55	-57.04	1.4	8.3	0	Н	Pass	
5197.5	-47.2	22 -13	-34.22	-65.66	-55.87	1.65	10.3	30	Н	Pass	
6930	-42.4	14 -13	-29.44	-64.68	-52.99	1.85	12.	40	Н	Pass	

Band :	/	WCDMA Ba	and IV fo	r CH1413		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	idity :	48~5	2%		
Test Engine	eer :	Sam Li				Polarization :	al				
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	EIRF		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
3465	-48.0	8 -13	-35.08	-63.37	-54.98	1.4	8.3	3	V	Pass	
5197.5	-48.3	35 -13	-35.35	-65.88	-57.00	1.65	10	.3	V	Pass	
6930	-42.3	-13	-29.31	-64.86	-52.86	1.85	12.	.4	V	Pass	

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Band :	,	WCDMA B	and IV fo	r CH1513		Temperature	:	23~2	5°C		
Test Mode :	:	RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity :	48~5	8~52%		
Test Engine	eer:	Sam Li				Polarization : Horizo			ontal		
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	nore tha	n 20d	IB below limit	line.	
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result	
,			Limit	Reading	Power		Ga				
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3505.2	-50.6	67 -13	-37.67	-63.08	-57.57	1.4	8.3	80	Н	Pass	
5257.8	-47.0	03 -13	-34.03	-65.47	-55.68	1.65	10.	30	Н	Pass	
7010.4	-42.4	19 -13	-29.49	-64.73	-53.04	1.85	12.	40	Н	Pass	

Band :	V	NCDMA Ba	and IV fo	r CH1513		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~52%			
Test Engine	eer : S	Sam Li				Polarization :	Vertical				
Remark :	5	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	EIRF		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
3505.2	-48.8	4 -13	-35.84	-64.13	-55.74	1.4	8.3	3	V	Pass	
5257.8	-47.8	5 -13	-34.85	-65.38	-56.50	1.65	10.	.3	V	Pass	
7010.4	-42.4	0 -13	-29.40	-64.95	-52.95	1.85	12.	.4	V	Pass	

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Band :	,	WCDMA B	and II for	CH9262		Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2k	lbps Link	(QPSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	eer:	Sam Li				Polarization		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20c	IB below limit	line.
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3704.8	-56.0	, , ,	-43.02	-63.58	-67.37	, ,	12.		H	Pass
5557.2	-51.3	39 -13	-38.39	-65.07	-63.06	1.43	13.	10	Н	Pass
7409.6	-50.9	94 -13	-37.94	-64.99	-59.98	2.26	11.3	30	Н	Pass

Band :		WCDMA B	and II for	CH9262		Temperature	:	23~25	°C		
Test Mode	:	RMC 12.2I	Kbps Link	(QPSK)		Relative Hun	nidity:	48~52	18~52%		
Test Engine	eer:	Sam Li				Polarization		Vertica	al		
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20dB	B below limit	line.	
Frequency	EIR	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant		Polarization	Result	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
3704.8	-54.8	37 -13	-41.87	-63.73	-66.22	1.25	12.	6	V	Pass	
5557.2	-50.0	03 -13	-37.03	-64.17	-61.70	1.43	13.	1	V	Pass	
7409.6	-50.7	78 -13	-37.78	-65.31	-59.82	2.26	11.	3	V	Pass	

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Band :	/	WCDMA Ba	and II for	CH9400		Temperature	:	23~25°C		
Test Mode	: I	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	48~5	2%	
Test Engine	eer :	Sam Li				Polarization	:	Horiz	ontal	
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3760	-55.0)4 -13	-42.04	-62.60	-66.39	1.25	12.0	60	Н	Pass
5640	-50.5	8 -13	-37.58	-64.26	-62.25	1.43	13.	10	Н	Pass
7520	-50.6	88 -13	-37.68	-64.73	-59.72	2.26	11.3	30	Н	Pass

Band :		WCDMA Ba	and II for	CH9400		Temperature	:	23~25°C			
Test Mode	:	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~52	2%		
Test Engine	eer :	Sam Li				Polarization		Vertic	Vertical		
Remark :		Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20dl	B below limit	line.	
Frequency (MHz)	EIR (dBr		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga	in	Polarization (H/V)	Result	
3760	-52.6	, , ,	-39.62	-61.48	-63.97	\ /	12.		V	Pass	
5640	-48.4	46 -13	-35.46	-62.6	-60.13	1.43	13	.1	V	Pass	
7520	-50.6	62 -13	-37.62	-65.15	-59.66	2.26	11.	3	V	Pass	

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Band :	,	WCDMA B	and II for	CH9538		Temperature	:	23~2	5°C		
Test Mode :		RMC 12.2k	(bps Link	(QPSK)		Relative Hun	nidity :	48~5	2%		
Test Engine	er:	Sam Li				Polarization	:	Horiz	Horizontal		
Remark :		Spurious e	missions	within 30-1	1000MHz	were found n	ore tha	n 20d	IB below limit	line.	
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
(BALL -)	/ -ID	. \	Limit	Reading	Power	loss	Ga		(1100		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	1)	(H/V)		
3815.2	-56.5	50 -13	-43.50	-64.06	-67.85	1.25	12.0	60	Н	Pass	
5722.8	-51.8	31 -13	-38.81	-65.49	-63.48	1.43	13.	10	Н	Pass	
7630.4	-50.5	56 -13	-37.56	-64.61	-59.60	2.26	11.3	30	Н	Pass	

Band :	/	WCDMA Ba	and II for	CH9538		Temperature	:	23~25°C			
Test Mode	: F	RMC 12.2K	lbps Link	(QPSK)		Relative Hum	nidity:	48~5	2%		
Test Engine	eer :	Sam Li				Polarization	:	Vertic	al		
Remark :	Ş	Spurious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency (MHz)	EIRF		Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result	
3815.2	-53.8	30 -13	-40.80	-62.66	-65.15	1.25	12.	.6	V	Pass	
5722.8	-50.4	1 -13	-37.41	-64.55	-62.08	1.43	13.	.1	V	Pass	
7630.4	-49.9	3 -13	-36.93	-64.46	-58.97	2.26	11.	3	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 v02r02 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

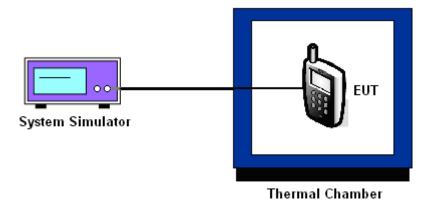
- 1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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3.8.5 Test Setup



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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

_ ,	GS	SM	EDGE	class 8	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	22	0.0060	21	0.0024	
40	14	0.0036	22	0.0012	
30	27	0.0120	-6	0.0347	
20(Ref.)	17	0.0000	23	0.0000	
10	27	0.0120	28	0.0060	PASS
0	10	0.0084	10	0.0155	
-10	-13	0.0359	-10	0.0395	
-20	17	0.0000	-11	0.0407	
-30	19	0.0024	27	0.0048	

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

	GS	SM	EDGE		
lemperature (°C)	Temperature (°C) Freq. Dev. (Hz)		Freq. Dev. (Hz)	Deviation (ppm)	Result
50	27	0.0223	24	0.0043	
40	24	0.0207	13	0.0016	
30	28	0.0229	-8	0.0128	
20(Ref.)	-15	0.0000	16	0.0000	
10	14	0.0154	17	0.0005	PASS
0	-11	0.0021	11	0.0027	
-10	13	0.0149	-8	0.0128	
-20	18	0.0176	18	0.0011	
-30	13	0.0149	-11	0.0144	

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	RMC 12.2Kbps		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
50	19	0.0024		
40	-11	0.0335		
30	26	0.0108		
20(Ref.)	17	0.0000		
10	-16	0.0395	PASS	
0	18	0.0012		
-10	21	0.0048		
-20	-12	0.0347		
-30	17	0.0000		

Band :	WCDMA Band IV	Channel:	1413
Limit (ppm):	within authorized band	Frequency:	1732.6 MHz

	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	30	0.0115	
40	15	0.0029	
30	-12	0.0127	
20(Ref.)	10	0.0000	
10	-19	0.0167	PASS
0	28	0.0104	
-10	-11	0.0121	
-20	22	0.0069	
-30	-29	0.0225	

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

T	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	-10	0.0037	
40	-19	0.0011	
30	18	0.0186	
20(Ref.)	-17	0.0000	
10	25	0.0223	PASS
0	-15	0.0011	
-10	17	0.0181	
-20	10	0.0144	
-30	18	0.0186	

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
		3.80	13	0.0048		
	GSM	BEP	11	0.0072		
GSM 850		4.35	24	0.0084	2.5	
CH189	ED0E	3.80	17	0.0072	2.5	
	EDGE class 8	BEP	15	0.0096		
	01433 0	4.35	-12	0.0418		
		3.80	23	0.0202		
	GSM	BEP	14	0.0154	(Note 3.)	PASS
GSM 1900		4.35	-17	0.0011		
CH661	EDGE class 8	3.80	-12	0.0149		
		BEP	17	0.0005		
		4.35	18	0.0011		
	D140	3.80	15	0.0024		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	13	0.0048	2.5	
C114102	12.21000	4.35	-14	0.0371		
		3.80	-14	0.0139		
WCDMA Band IV CH1413	RMC 12.2Kbps	BEP	18	0.0046	(Note 3.)	
	12.2Kbps	4.35	26	0.0092		
		3.80	14	0.0165		
WCDMA Band II CH9400	RMC	BEP	26	0.0229	(Note 3.)	
G119400	12.2Kbps	4.35	-12	0.0027		

Note:

- 1. Normal Voltage = 3.80V.
- 2. Battery End Point (BEP) = 3.50 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	FSP40	100319	9kHz~40GHz	Oct. 28, 2014	Mar. 16, 2015~ Mar. 24, 2015	Oct. 27, 2015	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV30	101338	9kHz~30GHz	May 04, 2014	Mar. 16, 2015~ Mar. 24, 2015	May 03, 2015	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 25, 2014	Mar. 16, 2015~ Mar. 24, 2015	Oct. 24, 2015	Conducted (TH01-KS)
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Mar. 27, 2015~ Mar. 31, 2015	May 03, 2015	Radiation (03CH02-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Mar. 27, 2015~ Mar. 31, 2015	May 25, 2015	Radiation (03CH02-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Mar. 27, 2015~ Mar. 31, 2015	Oct. 14, 2015	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Mar. 27, 2015~ Mar. 31, 2015	Jan. 19, 2016	Radiation (03CH02-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Mar. 27, 2015~ Mar. 31, 2015	Sep. 03, 2015	Radiation (03CH02-SZ)
Amplifier	com-power	PA-103A	161069	1~1000MHz	May 04, 2014	Mar. 27, 2015~ Mar. 31, 2015	May 03, 2015	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 29, 2014	Mar. 27, 2015~ Mar. 31, 2015	Oct. 28, 2015	Radiation (03CH02-SZ)
AC Source(AVR)	CHROMA	61601ACSO URCE	61601000247 0	100Vac~240Vac	NCR	Mar. 27, 2015~ Mar. 31, 2015	NCR	Radiation (03CH02-SZ)
Turn Table	Qiangdian	3000	N/A	0~360 degree	NCR	Mar. 27, 2015~ Mar. 31, 2015	NCR	Radiation (03CH02-SZ)
Antenna Mast	Qiangdian	3000	N/A	1 m~4 m	NCR	Mar. 27, 2015~ Mar. 31, 2015	NCR	Radiation (03CH02-SZ)

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Uncertainty of Evaluation 5

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

Measuring Uncertainty for a Level of	4.5dB
Confidence of 95% (U = 2Uc(y))	4.3uB

SPORTON INTERNATIONAL (KUNSHAN) INC.

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