



FCC RF Test Report

APPLICANT : VINFAST TRADING AND PRODUCTION
JOINT STOCK COMPANY

EQUIPMENT : MULTIMEDIA HEAD UNIT

BRAND NAME : VINFAST

MODEL NAME : VF-EC32U

FCC ID : 2A6HEVF-EC32U

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

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Sep. 01, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This product installed a RF module (Brand Name: Quectel, Model Name: AG35-NA, FCC ID: XMR201905AG35NA), during the test, only Conducted power, ERP/ EIRP and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG362705A	Rev. 01	Initial issue of report	Nov. 10, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	1
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	1
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	1
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 16.92 dB at 2512.000 MHz

Remark 1: All test results were leveraged from module RF report which can refer to Report No. FG912203A.

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY

Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai District, Hai Phong City, Vietnam

1.2 Manufacturer

VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY

Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai District, Hai Phong City, Vietnam

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MULTIMEDIA HEAD UNIT
Brand Name	VINFAST
Model Name	VF-EC32U
FCC ID	2A6HEVF-EC32U
SN Code	Radiation: 230530D00011
HW Version	EEP70005507
SW Version	SOW70005570
EUT Stage	Identical Prototype

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



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GPRS/EDGE: 850: 824 MHz ~ 849 MHz 1900: 1850MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
Rx Frequency	GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990 MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz
Maximum Output Power to Antenna	GPRS/EDGE: 850: 31.98 dBm 1900: 29.04 dBm WCDMA: Band V: 22.82 dBm Band II: 22.68 dBm Band IV: 22.90 dBm
Antenna Type	PCB Antenna
Antenna Gain	Cellular Band: 0.7 dBi PCS Band: 2.1 dBi AWS Band: 3.5 dBi
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK HSPA: QPSK HSPA+ : 16QAM DC-HSDPA: 64QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power, and Emission Designator

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)
Part 22	GSM850 (GPRS)	824.2 ~ 848.8	GMSK	1.1298
Part 22	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.3388
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.1371
Part 24	GSM1900 (GPRS)	1850.2 ~ 1909.8	GMSK	1.3002
Part 24	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.5754
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.3006
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.4365

1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

1.9 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 C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

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 v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.(X-Plane)

Radiated emissions were investigated as following frequency range:

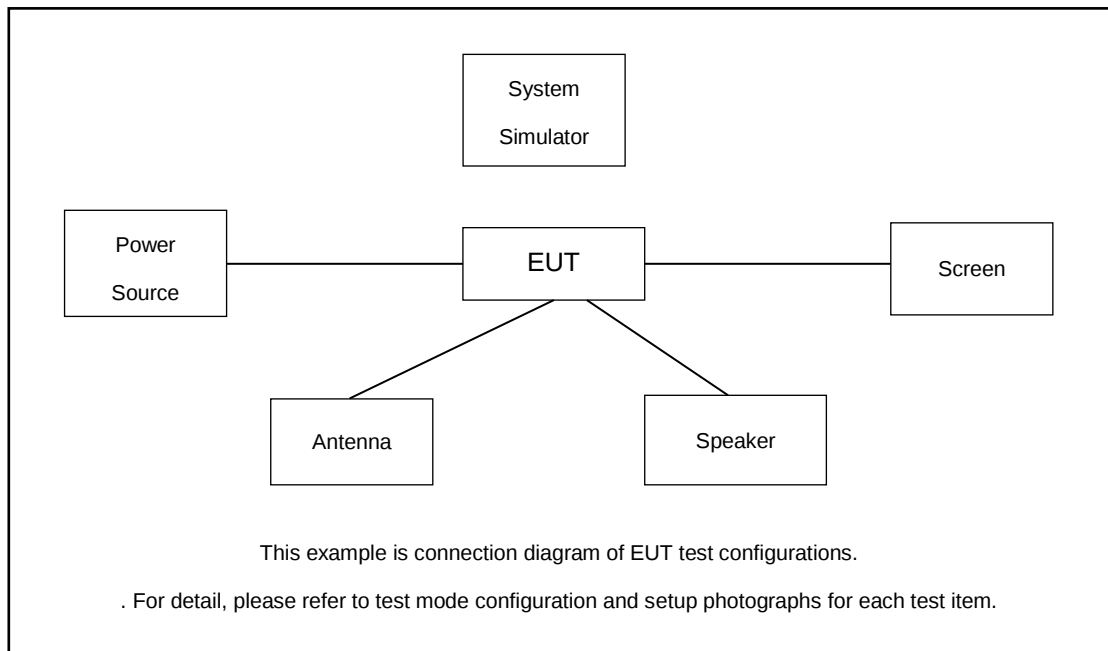
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

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

Test Modes	
Band	Radiated TCs
GSM 850	■ GPRS 1 Tx slots Link ■ EDGE 1 Tx slots Link
GSM 1900	■ GPRS 1 Tx slots Link ■ EDGE 1 Tx slots Link
WCDMA Band V	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820/8821	N/A	N/A	Unshielded, 1.8 m
2.	DC Power	GWINSTEK	PLR36-10	N/A	N/A	Unshielded,1.8m
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	Speaker	N/A	N/A	N/A	N/A	N/A
5.	Screen	N/A	N/A	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

3 Conducted Test Result

3.1 Conducted Output Power and ERP/EIRP

3.1.1 Description of the Conducted Output Power and ERP/EIRP

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.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.1.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

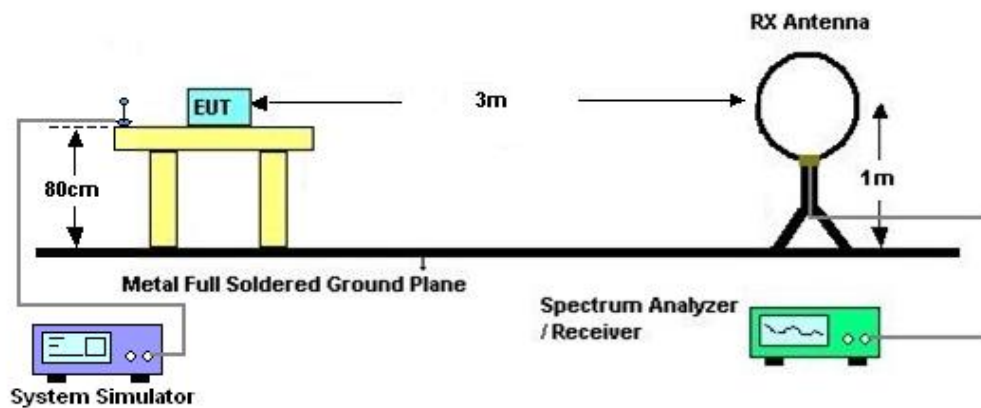
4 Radiated Test Items

4.1 Measuring Instruments

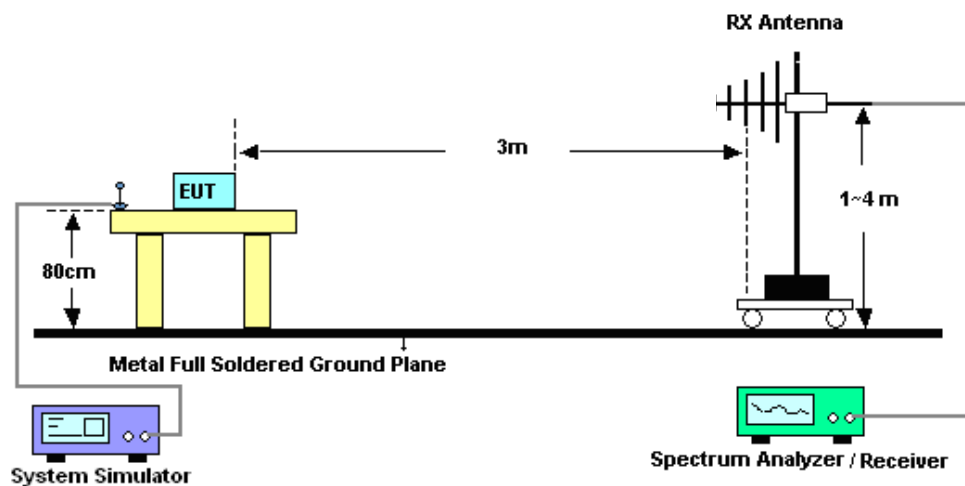
See list of measuring instruments of this test report.

4.2 Test Setup

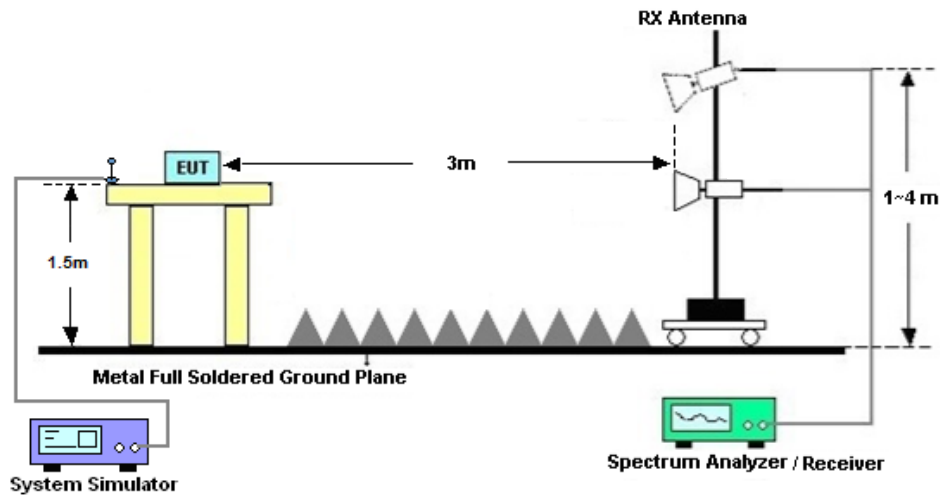
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 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.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz 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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Sep. 01, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 22, 2022	Sep. 01, 2023	Sep. 21, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Sep. 01, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Sep. 01, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Sep. 01, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Sep. 01, 2023	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Sep. 01, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	Sep. 01, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Sep. 01, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 01, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 01, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 01, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.82 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.56 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.54 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

GSM850	Burst Average Power (dBm)			ERP(W)		
TX Channel	128	189	251	L	M	H
Frequency (MHz)	824.2	836.4	848.8			
GPRS 1 Tx slot	31.95	31.94	31.98	1.1220	1.1194	1.1298
GPRS 2 Tx slots	28.56	28.64	28.61	0.5140	0.5236	0.5200
GPRS 3 Tx slots	27.28	27.27	27.41	0.3828	0.3819	0.3945
GPRS 4 Tx slots	25.53	25.62	25.61	0.2559	0.2612	0.2606
EDGE 1 Tx slot	26.58	26.75	26.62	0.3258	0.3388	0.3289
EDGE 2 Tx slots	22.73	22.90	22.88	0.1343	0.1396	0.1390
EDGE 3 Tx slots	21.62	21.71	21.77	0.1040	0.1062	0.1076
EDGE 4 Tx slots	19.65	19.73	19.65	0.0661	0.0673	0.0661

GSM1900	Burst Average Power (dBm)			EIRP(W)		
TX Channel	512	661	810	L	M	H
Frequency (MHz)	1850.2	1880	1909.8			
GPRS 1 Tx slot	28.85	29.01	29.04	1.2445	1.2912	1.3002
GPRS 2 Tx slots	26.40	26.64	26.79	0.7079	0.7482	0.7745
GPRS 3 Tx slots	24.52	24.75	24.94	0.4592	0.4842	0.5058
GPRS 4 Tx slots	22.62	22.82	22.98	0.2965	0.3105	0.3221
EDGE 1 Tx slot	25.39	25.50	25.48	0.5610	0.5754	0.5728
EDGE 2 Tx slots	22.57	22.83	22.87	0.2931	0.3112	0.3141
EDGE 3 Tx slots	21.61	21.70	21.73	0.2350	0.2399	0.2415
EDGE 4 Tx slots	19.42	19.53	19.64	0.1419	0.1455	0.1493



Band	WCDMA V			ERP(W)		
TX Channel	4132	4182	4233			
Rx Channel	4357	4407	4458			
Frequency (MHz)	826.4	836.4	846.6	L	M	H
RMC 12.2Kbps	22.78	22.82	22.79	0.1358	0.1371	0.1361
HSDPA Subtest-1	21.79	21.77	21.74	0.1081	0.1076	0.1069
HSDPA Subtest-2	21.88	21.99	22.04	0.1104	0.1132	0.1146
HSDPA Subtest-3	20.82	20.76	20.91	0.0865	0.0853	0.0883
HSDPA Subtest-4	20.89	20.80	20.91	0.0879	0.0861	0.0883
HSUPA Subtest-1	20.96	21.04	21.11	0.0893	0.0910	0.0925
HSUPA Subtest-2	19.32	19.37	19.29	0.0612	0.0619	0.0608
HSUPA Subtest-3	20.27	20.32	20.42	0.0762	0.0771	0.0789
HSUPA Subtest-4	19.36	19.32	19.53	0.0618	0.0612	0.0643
HSUPA Subtest-5	21.25	21.22	21.40	0.0955	0.0948	0.0989
HSPA+ (16QAM) Subtest-1	18.83	18.94	18.75	0.0547	0.0561	0.0537

Band	WCDMA IV			EIRP(W)		
TX Channel	1312	1413	1513			
Rx Channel	1537	1638	1738			
Frequency (MHz)	1712.4	1732.6	1752.6	L	M	H
RMC 12.2Kbps	22.49	22.90	22.87	0.3972	0.4365	0.4335
HSDPA Subtest-1	21.48	21.72	21.82	0.3148	0.3327	0.3404
HSDPA Subtest-2	21.58	21.90	22.02	0.3221	0.3467	0.3565
HSDPA Subtest-3	21.04	21.28	21.36	0.2844	0.3006	0.3062
HSDPA Subtest-4	20.82	21.28	21.38	0.2704	0.3006	0.3076
HSUPA Subtest-1	21.30	21.62	21.75	0.3020	0.3251	0.3350
HSUPA Subtest-2	19.44	19.81	19.78	0.1968	0.2143	0.2128
HSUPA Subtest-3	20.50	20.63	20.84	0.2512	0.2588	0.2716
HSUPA Subtest-4	19.46	19.82	19.88	0.1977	0.2148	0.2178
HSUPA Subtest-5	21.35	21.61	21.74	0.3055	0.3243	0.3342
HSPA+ (16QAM) Subtest-1	19.06	19.52	19.53	0.1803	0.2004	0.2009



Band	WCDMA II			EIRP(W)		
TX Channel	9262	9400	9538			
Rx Channel	9662	9800	9938			
Frequency (MHz)	1852.4	1880	1907.6	L	M	H
RMC 12.2Kbps	22.68	22.45	22.48	0.3006	0.2851	0.2871
HSDPA Subtest-1	21.59	21.39	21.35	0.2339	0.2234	0.2213
HSDPA Subtest-2	21.59	21.41	21.50	0.2339	0.2244	0.2291
HSDPA Subtest-3	21.20	20.89	20.94	0.2138	0.1991	0.2014
HSDPA Subtest-4	21.15	20.87	20.85	0.2113	0.1982	0.1972
HSUPA Subtest-1	21.58	21.34	21.50	0.2333	0.2208	0.2291
HSUPA Subtest-2	19.64	19.40	19.57	0.1493	0.1413	0.1469
HSUPA Subtest-3	20.66	20.35	20.48	0.1888	0.1758	0.1811
HSUPA Subtest-4	19.59	19.44	19.43	0.1476	0.1426	0.1422
HSUPA Subtest-5	21.43	21.33	21.32	0.2254	0.2203	0.2198
HSPA+ (16QAM) Subtest-1	19.07	18.97	18.96	0.1309	0.1279	0.1276



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

GSM850 (GPRS 1 Tx slots)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-58.70	-13	-45.70	-65.67	1.58	10.70	H
	2512	-33.20	-13	-20.20	-41.45	2.10	12.50	H
	3344	-60.01	-13	-47.01	-68.90	2.86	13.90	H
	4184	-44.84	-13	-31.84	-52.43	3.41	13.15	H
	1672	-52.09	-13	-39.09	-59.06	1.58	10.70	V
	2512	-30.92	-13	-17.92	-39.17	2.10	12.50	V
	3344	-58.22	-13	-45.22	-67.11	2.86	13.90	V
	4184	-47.56	-13	-34.56	-55.15	3.41	13.15	V

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

GSM850 (EDGE 1 Tx slots)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-55.15	-13	-42.15	-62.12	1.58	10.70	H
	2512	-35.12	-13	-22.12	-43.37	2.102	12.50	H
	3344	-61.31	-13	-48.31	-70.20	2.856	13.90	H
	4184	-62.43	-13	-49.43	-70.02	3.406	13.15	H
	1672	-52.33	-13	-39.33	-59.30	1.58	10.70	V
	2512	-29.92	-13	-16.92	-38.17	2.10	12.50	V
	3344	-56.52	-13	-43.52	-65.41	2.86	13.90	V
	4184	-59.42	-13	-46.42	-67.01	3.41	13.15	V

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



GSM1900 (GPRS 1 Tx slots)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-57.56	-13	-44.56	-69.82	2.64	14.90	H
	5640	-55.46	-13	-42.46	-67.32	2.94	14.80	H
	7515	-52.86	-13	-39.86	-62.63	3.39	13.16	H
	3765	-57.38	-13	-44.38	-69.64	2.64	14.90	V
	5640	-56.30	-13	-43.30	-68.16	2.94	14.80	V
	7515	-53.09	-13	-40.09	-62.86	3.39	13.16	V

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

GSM1900 (EDGE 1 Tx slots)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-58.00	-13	-45.00	-70.26	2.64	14.90	H
	5640	-55.73	-13	-42.73	-67.59	2.94	14.80	H
	7515	-53.15	-13	-40.15	-62.92	3.39	13.16	H
	3765	-57.93	-13	-44.93	-70.19	2.64	14.90	V
	5640	-56.44	-13	-43.44	-68.30	2.94	14.80	V
	7515	-53.04	-13	-40.04	-62.81	3.39	13.16	V

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

WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-64.83	-13	-51.83	-71.80	1.58	10.70	H
	2512	-60.03	-13	-47.03	-68.28	2.102	12.50	H
	3344	-61.53	-13	-48.53	-70.42	2.856	13.90	H
	1672	-63.91	-13	-50.91	-70.88	1.58	10.70	V
	2512	-59.64	-13	-46.64	-67.89	2.10	12.50	V
	3344	-61.55	-13	-48.55	-70.44	2.86	13.90	V

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



WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-57.81	-13	-44.81	-70.07	2.64	14.90	H
	5640	-55.07	-13	-42.07	-66.93	2.94	14.80	H
	7515	-52.96	-13	-39.96	-62.73	3.39	13.16	H
	3765	-56.82	-13	-43.82	-69.08	2.64	14.90	V
	5640	-55.67	-13	-42.67	-67.53	2.94	14.80	V
	7515	-52.64	-13	-39.64	-62.41	3.39	13.16	V

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

WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-57.56	-13	-44.56	-68.30	2.604	13.34	H
	5190	-46.09	-13	-33.09	-56.60	3.011	13.52	H
	6930	-54.40	-13	-41.40	-64.60	3.271	13.47	H
	3465	-56.34	-13	-43.34	-67.08	2.604	13.34	V
	5190	-51.80	-13	-38.80	-62.31	3.011	13.52	V
	6930	-54.63	-13	-41.63	-64.83	3.271	13.47	V

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