



FCC RF Test Report

APPLICANT : FoxInsights GmbH
EQUIPMENT : FoxRadar
BRAND NAME : FoxInsights
MODEL NAME : FoxRadar-V1
FCC ID : 2BKML-FOXRADAR
STANDARD : 47 CFR Part 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Nov. 01, 2024

This product installed a RF module (Brand Name: Quectel, Model Name: BG95-M3, FCC ID: XMR201910BG95M3) during the test, only Conducted Power, ERP/EIRP are tested in this report, RSE worst mode was verified, all the other test results are leveraged from module RF report.

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.

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
FG492504A	Rev. 01	Initial issue of report	Nov. 20, 2024

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	-
-	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	1
-	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	1
-	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235		Within Authorized Band		
4.4	§2.1053; §22.917(a); §24.238(a);	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 1.40 dB at 5730.00 MHz

Remark 1: Verify the maximum conducted power of the host is lower than and very close to the module, all the conducted test results were leveraged from module RF report which can refer to Report No. R2003A0152-R1(for GSM850) & R2003A0152-R2(for GSM1900).

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/manufacturer 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

FoxInsights GmbH
Ridlerstr. 57 80339 Munich Germany

1.2 Manufacturer

FoxInsights GmbH
Ridlerstr. 57 80339 Munich Germany

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	FoxRadar
Brand Name	FoxInsights
Model Name	FoxRadar-V1
FCC ID	2BKML-FOXRADAR
SN Code	Conducted: ONR223408769 Radiation: ONR223408769
HW Version	1.0
SW Version	1.0.0
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	GSM/GPRS/EDGE: 850: 824 MHz ~ 849 MHz 1900: 1850MHz ~ 1910MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990 MHz
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 32.11 dBm 1900: 29.05 dBm
Antenna Type	Surface Mount Device Antenna
Antenna Gain	Cellular Band: 1.2 dBi PCS Band: 3.1 dBi
Type of Modulation	GSM/GPRS: GMSK EDGE: GMSK / 8PSK

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)
Part 22H	GSM850 (GPRS)	824.2 ~ 848.8	GMSK	1.3062
Part 22H	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.2559
Part 24E	GSM1900 (GPRS)	1850.2 ~ 1909.8	GMSK	1.6406
Part 24E	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.6353



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 TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
2.	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 22(H), 24(E)
- ♦ 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 19100 MHz for GSM1900.

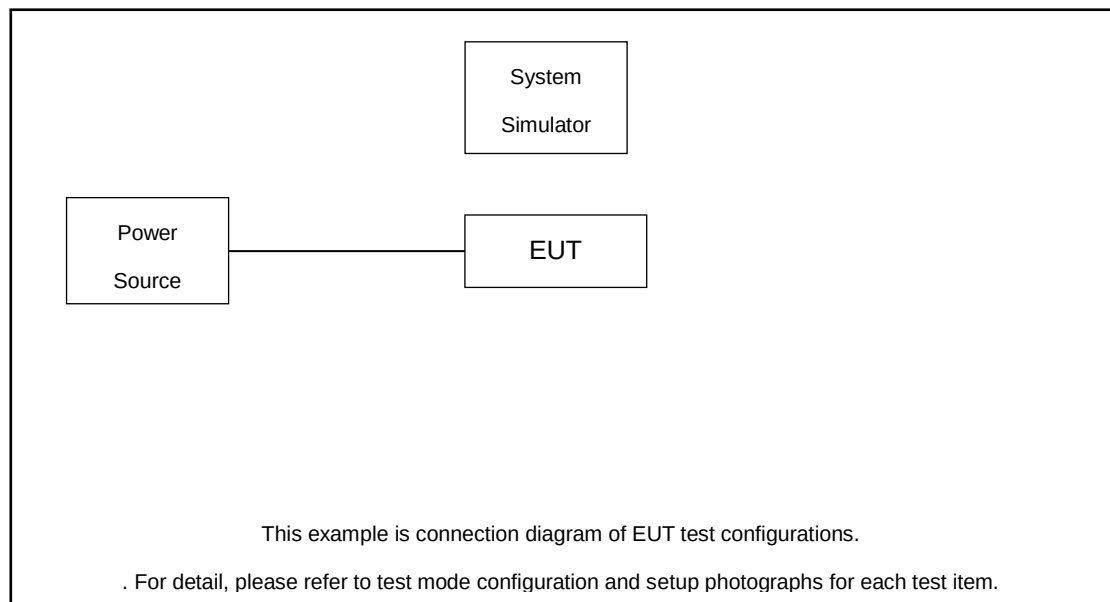
All modes and data rates and positions were investigated.

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

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	-	■ GPRS 1 Tx slots Link ■ EDGE 1 Tx slots Link
GSM 1900	■ GPRS 1 Tx slots Link ■ EDGE 1 Tx slots Link	■ GPRS 1 Tx slots Link ■ EDGE 1 Tx slots Link

For GSM 850/Band 5, the Gain lower than RF module report, so for RSE testing, we choice the worse case from RF module to verify, the worse case located LTE mode, which could refer to FG492504B.

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	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

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
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8

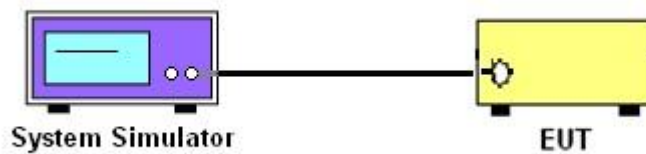
3 Conducted Test Result

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 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.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900.

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

3.4.2 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.

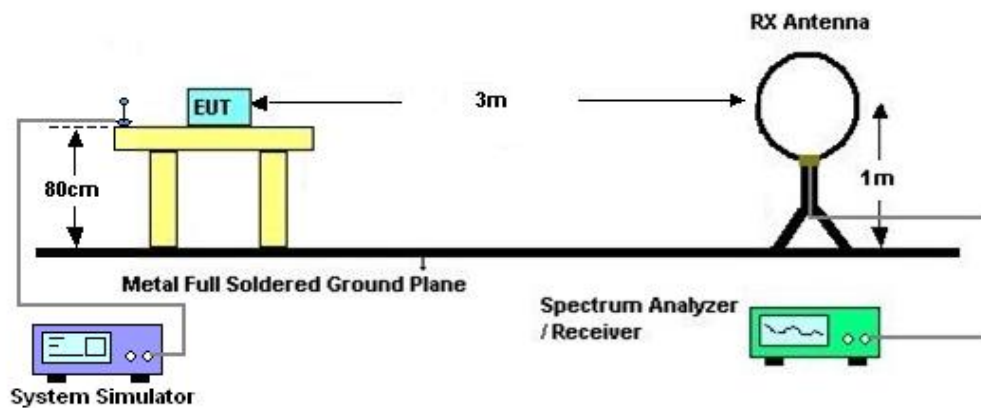
4 Radiated Test Items

4.1 Measuring Instruments

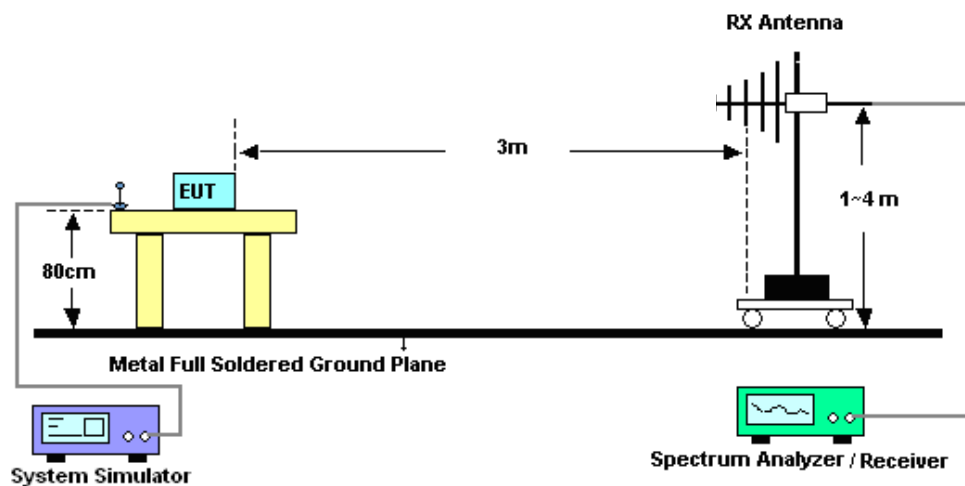
See list of measuring instruments of this test report.

4.2 Test Setup

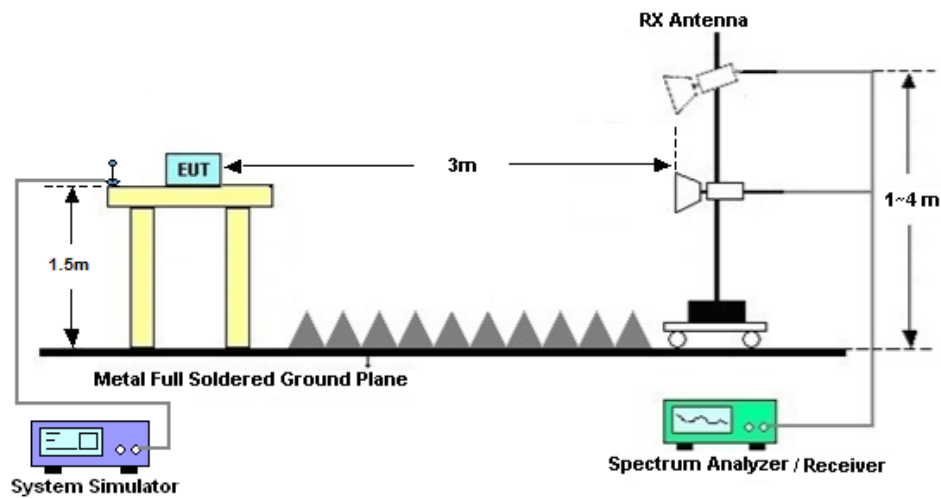
4.2.1 For radiated test below 30MHz



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
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 01, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Nov. 01, 2024	NCR	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 11, 2024	Nov. 01, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Nov. 01, 2024	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Dec. 06, 2023	Nov. 01, 2024	Dec. 05, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Nov. 01, 2024	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Nov. 01, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 03, 2024	Nov. 01, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Nov. 01, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz~18Ghz	Oct. 10, 2024	Nov. 01, 2024	Oct. 09, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz~18Ghz	Oct. 10, 2024	Nov. 01, 2024	Oct. 09, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 01, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 01, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 01, 2024	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 Conducted Measurement

Conducted Power	± 0.50 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and ERP/EIRP

GSM850_Ant 1_Index 2	Burst Average Power (dBm)			ERP(W)		
TX Channel	128	189	251			
Frequency (MHz)	824.2	836.4	848.8	L	M	H
GSM 1 Tx slot	31.88	31.96	32.05	1.2388	1.2618	1.2882
GPRS 1 Tx slot	31.90	32.06	32.11	1.2445	1.2912	1.3062
GPRS 2 Tx slots	30.96	31.01	31.06	1.0023	1.0139	1.0257
GPRS 3 Tx slots	28.74	29.01	29.23	0.6012	0.6397	0.6730
GPRS 4 Tx slots	28.05	28.08	27.91	0.5129	0.5164	0.4966
EDGE 1 Tx slot	24.82	24.96	25.03	0.2438	0.2518	0.2559
EDGE 2 Tx slots	24.13	24.02	24.11	0.2080	0.2028	0.2070
EDGE 3 Tx slots	22.06	22.00	22.13	0.1291	0.1274	0.1312
EDGE 4 Tx slots	21.00	20.89	20.97	0.1012	0.0986	0.1005

GSM1900_Ant 1_Index 2	Burst Average Power (dBm)			EIRP(W)		
TX Channel	512	661	810			
Frequency (MHz)	1850.2	1880	1909.8	L	M	H
GSM 1 Tx slot	27.36	27.75	27.81	1.1117	1.2162	1.2331
GPRS 1 Tx slot	27.79	27.80	29.05	1.2274	1.2303	1.6406
GPRS 2 Tx slots	27.55	27.58	28.55	1.1614	1.1695	1.4622
GPRS 3 Tx slots	26.22	26.32	27.15	0.8551	0.8750	1.0593
GPRS 4 Tx slots	25.25	25.31	26.03	0.6839	0.6934	0.8185
EDGE 1 Tx slot	24.91	24.93	24.65	0.6324	0.6353	0.5957
EDGE 2 Tx slots	24.00	23.92	24.05	0.5129	0.5035	0.5188
EDGE 3 Tx slots	21.85	22.00	22.11	0.3126	0.3236	0.3319
EDGE 4 Tx slots	20.81	20.96	21.02	0.2460	0.2547	0.2582



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	23~25°C
		Relative Humidity :	41~42%

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)
Lowest	3705	-15.10	-13	-2.10	-27.36	2.64	14.90	H
	5550	-14.58	-13	-1.58	-26.44	2.94	14.80	H
	7395	-30.38	-13	-17.38	-40.15	3.39	13.16	H
	9255	-27.53	-13	-14.53	-38.01	4.00	14.48	H
	11100	-40.57	-13	-27.57	-50.08	4.23	13.74	H
	12945	-44.62	-13	-31.62	-54.46	4.49	14.32	H
	3705	-17.78	-13	-4.78	-30.04	2.64	14.90	V
	5550	-15.32	-13	-2.32	-27.18	2.94	14.80	V
	7395	-24.88	-13	-11.88	-34.65	3.39	13.16	V
	9255	-31.51	-13	-18.51	-41.99	4.00	14.48	V
	11100	-44.39	-13	-31.39	-53.90	4.23	13.74	V
	12945	-43.79	-13	-30.79	-53.63	4.49	14.32	V
Middle	3765	-14.97	-13	-1.97	-27.23	2.64	14.90	H
	5640	-14.61	-13	-1.61	-26.47	2.94	14.80	H
	7515	-31.39	-13	-18.39	-41.16	3.39	13.16	H
	9405	-35.59	-13	-22.59	-46.07	4.00	14.48	H
	11280	-44.54	-13	-31.54	-54.05	4.23	13.74	H
	13155	-43.32	-13	-30.32	-53.16	4.49	14.32	H
	3765	-16.43	-13	-3.43	-28.69	2.64	14.90	V
	5640	-14.70	-13	-1.70	-26.56	2.94	14.80	V
	7515	-30.81	-13	-17.81	-40.58	3.39	13.16	V
	9405	-26.41	-13	-13.41	-36.89	4.00	14.48	V
	11280	-39.99	-13	-26.99	-49.50	4.23	13.74	V
	13155	-42.69	-13	-29.69	-52.53	4.49	14.32	V
Highest	3825	-18.63	-13	-5.63	-30.89	2.64	14.90	H
	5730	-14.40	-13	-1.40	-26.26	2.94	14.80	H
	7635	-28.18	-13	-15.18	-37.95	3.39	13.16	H
	9555	-23.37	-13	-10.37	-33.85	4.00	14.48	H
	11460	-42.28	-13	-29.28	-51.79	4.23	13.74	H
	13365	-48.06	-13	-35.06	-57.90	4.49	14.32	H
	3825	-18.33	-13	-5.33	-30.59	2.64	14.90	V
	5730	-14.58	-13	-1.58	-26.44	2.94	14.80	V
	7635	-25.67	-13	-12.67	-35.44	3.39	13.16	V
	9555	-25.07	-13	-12.07	-35.55	4.00	14.48	V
	11460	-41.58	-13	-28.58	-51.09	4.23	13.74	V
	13365	-47.27	-13	-34.27	-57.11	4.49	14.32	V



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)
Lowest	3705	-14.55	-13	-1.55	-26.81	2.64	14.90	H
	5550	-14.86	-13	-1.86	-26.72	2.94	14.80	H
	7395	-31.51	-13	-18.51	-41.28	3.39	13.16	H
	9255	-33.11	-13	-20.11	-43.59	4.00	14.48	H
	11100	-44.44	-13	-31.44	-53.95	4.23	13.74	H
	12945	-42.95	-13	-29.95	-52.79	4.49	14.32	H
	3705	-14.98	-13	-1.98	-27.24	2.64	14.90	V
	5550	-15.48	-13	-2.48	-27.34	2.94	14.80	V
	7395	-26.16	-13	-13.16	-35.93	3.39	13.16	V
	9255	-28.38	-13	-15.38	-38.86	4.00	14.48	V
	11100	-42.50	-13	-29.50	-52.01	4.23	13.74	V
	12945	-44.37	-13	-31.37	-54.21	4.49	14.32	V
Middle	3765	-15.13	-13	-2.13	-27.39	2.64	14.90	H
	5640	-14.82	-13	-1.82	-26.68	2.94	14.80	H
	7515	-28.61	-13	-15.61	-38.38	3.39	13.16	H
	9405	-34.38	-13	-21.38	-44.86	4.00	14.48	H
	11280	-44.70	-13	-31.70	-54.21	4.23	13.74	H
	13155	-42.03	-13	-29.03	-51.87	4.49	14.32	H
	3765	-14.57	-13	-1.57	-26.83	2.64	14.90	V
	5640	-14.61	-13	-1.61	-26.47	2.94	14.80	V
	7515	-27.01	-13	-14.01	-36.78	3.39	13.16	V
	9405	-29.97	-13	-16.97	-40.45	4.00	14.48	V
	11280	-42.00	-13	-29.00	-51.51	4.23	13.74	V
	13155	-41.27	-13	-28.27	-51.11	4.49	14.32	V
Highest	3825	-15.54	-13	-2.54	-27.80	2.64	14.90	H
	5730	-14.93	-13	-1.93	-26.79	2.94	14.80	H
	7635	-31.47	-13	-18.47	-41.24	3.39	13.16	H
	9555	-26.32	-13	-13.32	-36.80	4.00	14.48	H
	11460	-44.21	-13	-31.21	-53.72	4.23	13.74	H
	13365	-47.04	-13	-34.04	-56.88	4.49	14.32	H
	3825	-15.97	-13	-2.97	-28.23	2.64	14.90	V
	5730	-15.37	-13	-2.37	-27.23	2.94	14.80	V
	7635	-25.03	-13	-12.03	-34.80	3.39	13.16	V
	9555	-27.58	-13	-14.58	-38.06	4.00	14.48	V
	11460	-42.54	-13	-29.54	-52.05	4.23	13.74	V
	13365	-41.73	-13	-28.73	-51.57	4.49	14.32	V

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