RADIO TEST REPORT

Report No.:STS2105139W01

Issued for

NETIS SYSTEMS CO., LTD

Floor 8, Building B, TongFang Information Harbor, No.11 Langshan Road, Nanshan District, Shenzhen, China

Product Name:	LTE router
Brand Name:	N/A
Model Name:	MW5360
Series Model:	Q7
FCC ID:	T58Q7R
Test Standard:	FCC Part 22H and 24E, 27

Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com

TEST RESULT CERTIFICATION

Applicant's Name ..... :	NETIS SYSTEMS CO., LTD
Address ..... :	Floor 8, Building B, TongFang Information Harbor, No.11 Langshan Road, Nanshan District, Shenzhen, China
Manufacturer's Name..... :	NETIS SYSTEMS CO., LTD
Address ..... :	Floor 8, Building B, TongFang Information Harbor, No.11 Langshan Road, Nanshan District, Shenzhen, China

Product Description

Product Name ..... :	LTE router
Brand Name ..... :	N/A
Model Name ..... :	MW5360
Series Model ..... :	Q7
Test Standards ..... :	FCC Part 22H and 24E, 27
Test Procedure ..... :	KDB 971168 D01 v03r01,ANSI C63.26(2015)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Date of Test..... :	
Date of receipt of test item..... :	24 May 2021
Date (s) of performance of tests .:	24 May 2021 ~ 09 June 2021
Date of Issue ..... :	09 June 2021
Test Result ..... :	Pass

Testing Engineer : Chris Chen

(Chris Chen)

Technical Manager : Sean She

(Sean she)

Authorized Signatory : Vita Li

(Vita Li)

Table of Contents Page

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	09 June 2021	STS2105139W01	ALL	Initial Issue

SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1046	Conducted Output Power	Reporting Only	PASS	
22.913d 24.232d	Peak-to-Average Ratio	< 13 dB	PASS	
2.1046 22.913 24.232 27.50	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) <1 Watts max. EIRP(Part 27)	PASS	
2.1049 22.917 24.238 27.53	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355 24.235 27.54	Frequency Stability	< 2.5 ppm (Part 22) Emission must remain in band (Part 24) Emission must remain in band (Part 27)	PASS	
2.1051 22.917 24.238 27.53	Spurious Emission at Antenna Terminals	< 43+10log10(P[Watts])	PASS	
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917 24.238 27.53	Band Edge	< 43+10log10(P[Watts])	PASS	

1 INTRODUCTION

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
FCC test Firm Registration Number: 625569
IC test Firm Registration Number: 12108A
A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements ofANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 toindicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPRmeasurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly tospecified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

2 PRODUCT INFORMATION

Product Name	LTE router
Trade Name	N/A
Model Name	MW5360
Series Model	Q7
Model Difference	Only different in model name.
Tx Frequency:	GSM/GPRS/EDGE: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
Rx Frequency:	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz
Modulation Characteristics:	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
SIM Card:	Only support single SIM Card.
Antenna:	External
Antenna gain:	GSM 850: 2.53dBi ,PCS 1900:1.59dBi, WCDMA 850: 2.53dBi, WCDMA1900: 1.59dBi, WCDMA1700:2dBi
Adapter	Input: 100-240V-50/60Hz 0.5A Output: 12V-1.0A
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	AC 207V/50Hz~ AC 253V/50Hz(Normal: AC 230V/50Hz)
Extreme Temp. Tolerance:	-30℃ to +50℃
Hardware version number:	N/A
Software version number:	N/A

*** Note:*

1.The High Voltage AC 253V/50Hz and Low Voltage AC 207V/50Hz was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2. Please refer to the module report for all conduction test data. The report FCC ID is XMR202011EC200TAU.

3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems 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 GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 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

4 MEASUREMENT INSTRUMENTS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09
Signal Generator	Agilent	83752A	3610A02740	2020.10.10	2021.10.09
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2019.10.15	2021.10.14
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.10.10	2021.10.09
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Test SW	BALUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	119907	2020.10.12	2021.10.11
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Signal Analyzer	Agilent	N9020A	MY52440124	2021.03.04	2022.03.03
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2021.03.04	2022.03.03
Programmable power supply	Agilent	E3642A	MY40002025	2020.10.12	2021.10.11
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
Universal Radio communication tester	R&S	CMU200	119907	2020.10.12	2021.10.11
Test SW	FARAD	LZ-RF /LzRf-3A3			

Equipment with a calibration date of “NCR” shown in this list was not used to make direct calibrated measurements.

5 TEST ITEMS

5.1 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signalsoperating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas.Measurements on signals operating above 1GHz are performed using vertically and horizontally polarizedhorn antennas. All measurements are performed as peak measurements while the EUT isoperating at maximum power and at the appropriate frequencies.

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

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5.No. of sweep points > 2 x span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at 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/ERP was calculated with the correction factor, ERP/EIRP = P.SG + GT – LC

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, t ypically dBW or dBm);

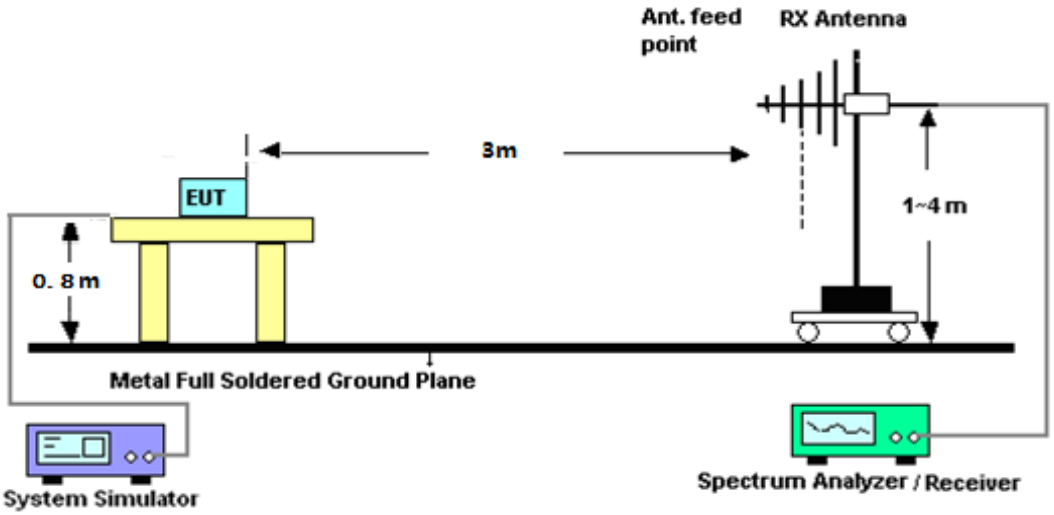
P.SG = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

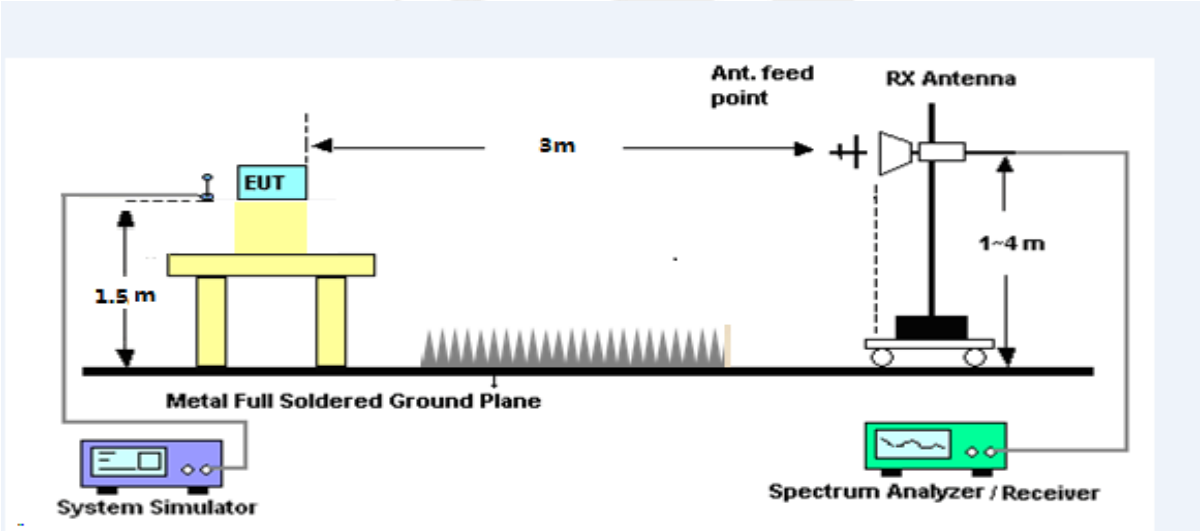
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



TEST RESULT

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.26	-41.43	9.40	4.75	-36.78	-13.00	-23.78	H
2472.36	-39.90	10.60	8.39	-37.69	-13.00	-24.69	H
3296.83	-31.66	12.00	11.79	-31.45	-13.00	-18.45	H
1648.15	-43.52	9.40	4.75	-38.87	-13.00	-25.87	V
2472.53	-45.08	10.60	8.39	-42.87	-13.00	-29.87	V
3296.68	-42.81	12.00	11.79	-42.60	-13.00	-29.60	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.23	-40.73	9.50	4.76	-35.99	-13.00	-22.99	H
2509.63	-39.80	10.70	8.40	-37.50	-13.00	-24.50	H
3346.24	-31.84	12.20	11.80	-31.44	-13.00	-18.44	H
1672.96	-44.32	9.40	4.75	-39.67	-13.00	-26.67	V
2509.86	-45.14	10.60	8.39	-42.93	-13.00	-29.93	V
3346.43	-43.16	12.20	11.82	-42.78	-13.00	-29.78	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.40	-40.84	9.60	4.77	-36.01	-13.00	-23.01	H
2546.26	-39.95	10.80	8.50	-37.65	-13.00	-24.65	H
3395.31	-31.83	12.50	11.90	-31.23	-13.00	-18.23	H
1697.23	-43.60	9.60	4.77	-38.77	-13.00	-25.77	V
2546.19	-45.00	10.80	8.50	-42.70	-13.00	-29.70	V
3394.91	-43.62	12.50	11.90	-43.02	-13.00	-30.02	V

GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.33	-41.11	9.40	4.75	-36.46	-13.00	-23.46	H
2472.39	-39.57	10.60	8.39	-37.36	-13.00	-24.36	H
3296.73	-31.44	12.00	11.79	-31.23	-13.00	-18.23	H
1648.35	-43.94	9.40	4.75	-39.29	-13.00	-26.29	V
2472.27	-45.32	10.60	8.39	-43.11	-13.00	-30.11	V
3296.70	-43.29	12.00	11.79	-43.08	-13.00	-30.08	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1672.89	-40.68	9.50	4.76	-35.94	-13.00	-22.94	H
2509.78	-39.58	10.70	8.40	-37.28	-13.00	-24.28	H
3345.96	-31.98	12.20	11.80	-31.58	-13.00	-18.58	H
1672.83	-44.42	9.40	4.75	-39.77	-13.00	-26.77	V
2509.51	-44.19	10.60	8.39	-41.98	-13.00	-28.98	V
3346.45	-42.85	12.20	11.82	-42.47	-13.00	-29.47	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.39	-40.22	9.60	4.77	-35.39	-13.00	-22.39	H
2546.53	-39.70	10.80	8.50	-37.40	-13.00	-24.40	H
3395.16	-31.67	12.50	11.90	-31.07	-13.00	-18.07	H
1697.59	-44.31	9.60	4.77	-39.48	-13.00	-26.48	V
2546.48	-45.29	10.80	8.50	-42.99	-13.00	-29.99	V
3395.21	-43.81	12.50	11.90	-43.21	-13.00	-30.21	V

EGPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.25	-40.64	9.40	4.75	-35.99	-13.00	-22.99	H
2472.32	-39.40	10.60	8.39	-37.19	-13.00	-24.19	H
3296.53	-31.94	12.00	11.79	-31.73	-13.00	-18.73	H
1648.41	-44.62	9.40	4.75	-39.97	-13.00	-26.97	V
2472.56	-44.00	10.60	8.39	-41.79	-13.00	-28.79	V
3296.67	-43.94	12.00	11.79	-43.73	-13.00	-30.73	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.21	-40.72	9.50	4.76	-35.98	-13.00	-22.98	H
2509.76	-40.10	10.70	8.40	-37.80	-13.00	-24.80	H
3346.29	-30.93	12.20	11.80	-30.53	-13.00	-17.53	H
1673.15	-44.07	9.40	4.75	-39.42	-13.00	-26.42	V
2509.80	-44.66	10.60	8.39	-42.45	-13.00	-29.45	V
3346.20	-43.89	12.20	11.82	-43.51	-13.00	-30.51	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.25	-40.61	9.60	4.77	-35.78	-13.00	-22.78	H
2546.34	-40.57	10.80	8.50	-38.27	-13.00	-25.27	H
3394.97	-31.68	12.50	11.90	-31.08	-13.00	-18.08	H
1697.30	-44.61	9.60	4.77	-39.78	-13.00	-26.78	V
2546.37	-44.82	10.80	8.50	-42.52	-13.00	-29.52	V
3395.19	-43.61	12.50	11.90	-43.01	-13.00	-30.01	V

DCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.16	-33.88	12.60	12.93	-34.21	-13.00	-21.21	H
5550.30	-35.19	13.10	17.11	-39.20	-13.00	-26.20	H
7400.85	-32.52	11.50	22.20	-43.22	-13.00	-30.22	H
3700.13	-34.72	12.60	12.93	-35.05	-13.00	-22.05	V
5550.22	-33.98	13.10	17.11	-37.99	-13.00	-24.99	V
7400.53	-32.87	11.50	22.20	-43.57	-13.00	-30.57	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3759.77	-33.59	12.60	12.93	-33.92	-13.00	-20.92	H
5640.17	-34.29	13.10	17.11	-38.30	-13.00	-25.30	H
7520.18	-32.19	11.50	22.20	-42.89	-13.00	-29.89	H
3759.88	-35.88	12.60	12.93	-36.21	-13.00	-23.21	V
5640.07	-34.71	13.10	17.11	-38.72	-13.00	-25.72	V
7520.27	-32.90	11.50	22.20	-43.60	-13.00	-30.60	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.31	-34.60	12.60	12.93	-34.93	-13.00	-21.93	H
5729.24	-35.44	13.10	17.11	-39.45	-13.00	-26.45	H
7639.32	-33.04	11.50	22.20	-43.74	-13.00	-30.74	H
3819.44	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V
5729.27	-35.19	13.10	17.11	-39.20	-13.00	-26.20	V
7639.09	-32.70	11.50	22.20	-43.40	-13.00	-30.40	V

EGPRS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.41	-34.28	12.60	12.93	-34.61	-13.00	-21.61	H
5550.36	-35.22	13.10	17.11	-39.23	-13.00	-26.23	H
7400.75	-32.27	11.50	22.20	-42.97	-13.00	-29.97	H
3700.03	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5550.68	-34.02	13.10	17.11	-38.03	-13.00	-25.03	V
7400.63	-32.70	11.50	22.20	-43.40	-13.00	-30.40	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.18	-34.48	12.60	12.93	-34.81	-13.00	-21.81	H
5639.98	-34.02	13.10	17.11	-38.03	-13.00	-25.03	H
7520.18	-32.55	11.50	22.20	-43.25	-13.00	-30.25	H
3760.34	-35.89	12.60	12.93	-36.22	-13.00	-23.22	V
5639.98	-35.23	13.10	17.11	-39.24	-13.00	-26.24	V
7519.89	-32.66	11.50	22.20	-43.36	-13.00	-30.36	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.56	-33.57	12.60	12.93	-33.90	-13.00	-20.90	H
5729.29	-34.73	13.10	17.11	-38.74	-13.00	-25.74	H
7639.26	-33.28	11.50	22.20	-43.98	-13.00	-30.98	H
3819.75	-34.55	12.60	12.93	-34.88	-13.00	-21.88	V
5729.51	-34.53	13.10	17.11	-38.54	-13.00	-25.54	V
7638.99	-32.71	11.50	22.20	-43.41	-13.00	-30.41	V

GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.49	-34.84	12.60	12.93	-35.17	-13.00	-22.17	H
5550.67	-34.50	13.10	17.11	-38.51	-13.00	-25.51	H
7400.91	-33.30	11.50	22.20	-44.00	-13.00	-31.00	H
3700.21	-35.36	12.60	12.93	-35.69	-13.00	-22.69	V
5550.68	-35.10	13.10	17.11	-39.11	-13.00	-26.11	V
7400.86	-32.56	11.50	22.20	-43.26	-13.00	-30.26	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3759.88	-33.95	12.60	12.93	-34.28	-13.00	-21.28	H
5639.96	-34.14	13.10	17.11	-38.15	-13.00	-25.15	H
7520.19	-32.99	11.50	22.20	-43.69	-13.00	-30.69	H
3760.34	-36.01	12.60	12.93	-36.34	-13.00	-23.34	V
5639.98	-35.13	13.10	17.11	-39.14	-13.00	-26.14	V
7520.30	-32.42	11.50	22.20	-43.12	-13.00	-30.12	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.67	-34.02	12.60	12.93	-34.35	-13.00	-21.35	H
5729.37	-34.37	13.10	17.11	-38.38	-13.00	-25.38	H
7639.13	-32.48	11.50	22.20	-43.18	-13.00	-30.18	H
3819.34	-35.72	12.60	12.93	-36.05	-13.00	-23.05	V
5729.37	-34.30	13.10	17.11	-38.31	-13.00	-25.31	V
7639.13	-32.91	11.50	22.20	-43.61	-13.00	-30.61	V

WCDMA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3704.21	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5557.26	-34.61	13.10	17.11	-38.62	-13.00	-25.62	H
7409.87	-33.35	11.50	22.20	-44.05	-13.00	-31.05	H
3704.44	-35.26	12.60	12.93	-35.59	-13.00	-22.59	V
5557.25	-35.11	13.10	17.11	-39.12	-13.00	-26.12	V
7409.58	-32.81	11.50	22.20	-43.51	-13.00	-30.51	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3759.94	-34.80	12.60	12.93	-35.13	-13.00	-22.13	H
5640.17	-34.83	13.10	17.11	-38.84	-13.00	-25.84	H
7520.19	-32.42	11.50	22.20	-43.12	-13.00	-30.12	H
3760.17	-35.89	12.60	12.93	-36.22	-13.00	-23.22	V
5639.93	-33.77	13.10	17.11	-37.78	-13.00	-24.78	V
7520.29	-31.94	11.50	22.20	-42.64	-13.00	-29.64	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3815.57	-33.99	12.60	12.93	-34.32	-13.00	-21.32	H
5722.28	-34.45	13.10	17.11	-38.46	-13.00	-25.46	H
7630.20	-33.12	11.50	22.20	-43.82	-13.00	-30.82	H
3815.48	-35.00	12.60	12.93	-35.33	-13.00	-22.33	V
5722.15	-33.83	13.10	17.11	-37.84	-13.00	-24.84	V
7629.99	-31.72	11.50	22.20	-42.42	-13.00	-29.42	V

HSDPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3704.08	-33.47	12.60	12.93	-33.80	-13.00	-20.80	H
5557.44	-34.30	13.10	17.11	-38.31	-13.00	-25.31	H
7409.65	-33.18	11.50	22.20	-43.88	-13.00	-30.88	H
3704.18	-34.79	12.60	12.93	-35.12	-13.00	-22.12	V
5557.61	-34.64	13.10	17.11	-38.65	-13.00	-25.65	V
7409.84	-32.33	11.50	22.20	-43.03	-13.00	-30.03	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.05	-33.95	12.60	12.93	-34.28	-13.00	-21.28	H
5639.80	-34.10	13.10	17.11	-38.11	-13.00	-25.11	H
7519.85	-32.27	11.50	22.20	-42.97	-13.00	-29.97	H
3760.23	-34.87	12.60	12.93	-35.20	-13.00	-22.20	V
5640.00	-34.14	13.10	17.11	-38.15	-13.00	-25.15	V
7520.06	-31.95	11.50	22.20	-42.65	-13.00	-29.65	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3815.40	-33.56	12.60	12.93	-33.89	-13.00	-20.89	H
5722.14	-35.41	13.10	17.11	-39.42	-13.00	-26.42	H
7630.25	-32.57	11.50	22.20	-43.27	-13.00	-30.27	H
3815.28	-35.51	12.60	12.93	-35.84	-13.00	-22.84	V
5722.11	-33.87	13.10	17.11	-37.88	-13.00	-24.88	V
7630.29	-32.98	11.50	22.20	-43.68	-13.00	-30.68	V

HSUPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3704.10	-34.51	12.60	12.93	-34.84	-13.00	-21.84	H
5557.66	-34.42	13.10	17.11	-38.43	-13.00	-25.43	H
7409.56	-32.15	11.50	22.20	-42.85	-13.00	-29.85	H
3704.39	-35.28	12.60	12.93	-35.61	-13.00	-22.61	V
5557.67	-34.07	13.10	17.11	-38.08	-13.00	-25.08	V
7409.53	-32.65	11.50	22.20	-43.35	-13.00	-30.35	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3759.81	-34.68	12.60	12.93	-35.01	-13.00	-22.01	H
5640.09	-35.45	13.10	17.11	-39.46	-13.00	-26.46	H
7520.30	-32.63	11.50	22.20	-43.33	-13.00	-30.33	H
3760.28	-34.80	12.60	12.93	-35.13	-13.00	-22.13	V
5640.16	-34.09	13.10	17.11	-38.10	-13.00	-25.10	V
7520.29	-33.14	11.50	22.20	-43.84	-13.00	-30.84	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3815.27	-33.71	12.60	12.93	-34.04	-13.00	-21.04	H
5722.35	-35.02	13.10	17.11	-39.03	-13.00	-26.03	H
7630.26	-32.49	11.50	22.20	-43.19	-13.00	-30.19	H
3815.54	-34.69	12.60	12.93	-35.02	-13.00	-22.02	V
5722.15	-34.57	13.10	17.11	-38.58	-13.00	-25.58	V
7630.07	-32.86	11.50	22.20	-43.56	-13.00	-30.56	V

WCDMA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3425.11	-34.78	12.90	12.05	-33.93	-13.00	-20.93	H
5137.42	-34.99	12.80	16.27	-38.46	-13.00	-25.46	H
6850.19	-32.65	12.30	20.13	-40.48	-13.00	-27.48	H
3425.18	-35.96	12.90	12.05	-35.11	-13.00	-22.11	V
5137.76	-34.78	12.80	16.27	-38.25	-13.00	-25.25	V
6850.16	-31.80	12.30	20.13	-39.63	-13.00	-26.63	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3479.99	-34.03	12.90	12.05	-33.18	-13.00	-20.18	H
5219.88	-35.15	12.80	16.27	-38.62	-13.00	-25.62	H
6959.59	-32.46	12.30	20.13	-40.29	-13.00	-27.29	H
3479.97	-35.59	12.90	12.05	-34.74	-13.00	-21.74	V
5219.64	-34.44	12.80	16.27	-37.91	-13.00	-24.91	V
6959.52	-32.18	12.30	20.13	-40.01	-13.00	-27.01	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3504.79	-33.48	12.90	12.05	-32.63	-13.00	-19.63	H
5257.04	-34.55	12.80	16.27	-38.02	-13.00	-25.02	H
7009.16	-33.07	12.30	20.13	-40.90	-13.00	-27.90	H
3504.76	-35.64	12.90	12.05	-34.79	-13.00	-21.79	V
5257.10	-35.13	12.80	16.27	-38.60	-13.00	-25.60	V
7009.15	-32.60	12.30	20.13	-40.43	-13.00	-27.43	V

HSDPA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3425.07	-34.70	12.90	12.05	-33.85	-13.00	-20.85	H
5137.72	-34.50	12.80	16.27	-37.97	-13.00	-24.97	H
6850.40	-32.67	12.30	20.13	-40.50	-13.00	-27.50	H
3424.76	-35.07	12.90	12.05	-34.22	-13.00	-21.22	V
5137.44	-34.55	12.80	16.27	-38.02	-13.00	-25.02	V
6850.24	-33.01	12.30	20.13	-40.84	-13.00	-27.84	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3479.87	-33.95	12.90	12.05	-33.10	-13.00	-20.10	H
5219.96	-35.06	12.80	16.27	-38.53	-13.00	-25.53	H
6959.83	-33.62	12.30	20.13	-41.45	-13.00	-28.45	H
3479.54	-35.43	12.90	12.05	-34.58	-13.00	-21.58	V
5219.53	-34.29	12.80	16.27	-37.76	-13.00	-24.76	V
6959.73	-33.01	12.30	20.13	-40.84	-13.00	-27.84	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3504.78	-34.26	12.90	12.05	-33.41	-13.00	-20.41	H
5257.08	-35.34	12.80	16.27	-38.81	-13.00	-25.81	H
7009.21	-32.82	12.30	20.13	-40.65	-13.00	-27.65	H
3504.73	-35.12	12.90	12.05	-34.27	-13.00	-21.27	V
5257.16	-34.01	12.80	16.27	-37.48	-13.00	-24.48	V
7009.54	-32.00	12.30	20.13	-39.83	-13.00	-26.83	V

HSUPA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3424.98	-34.03	12.90	12.05	-33.18	-13.00	-20.18	H
5137.75	-34.57	12.80	16.27	-38.04	-13.00	-25.04	H
6850.30	-32.27	12.30	20.13	-40.10	-13.00	-27.10	H
3425.16	-35.93	12.90	12.05	-35.08	-13.00	-22.08	V
5137.76	-34.37	12.80	16.27	-37.84	-13.00	-24.84	V
6850.20	-33.00	12.30	20.13	-40.83	-13.00	-27.83	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3479.93	-34.73	12.90	12.05	-33.88	-13.00	-20.88	H
5219.72	-34.01	12.80	16.27	-37.48	-13.00	-24.48	H
6959.76	-33.47	12.30	20.13	-41.30	-13.00	-28.30	H
3479.55	-34.75	12.90	12.05	-33.90	-13.00	-20.90	V
5219.78	-34.49	12.80	16.27	-37.96	-13.00	-24.96	V
6959.73	-32.00	12.30	20.13	-39.83	-13.00	-26.83	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3504.53	-34.37	12.90	12.05	-33.52	-13.00	-20.52	H
5257.18	-34.02	12.80	16.27	-37.49	-13.00	-24.49	H
7009.40	-33.06	12.30	20.13	-40.89	-13.00	-27.89	H
3504.33	-34.88	12.90	12.05	-34.03	-13.00	-21.03	V
5257.09	-34.20	12.80	16.27	-37.67	-13.00	-24.67	V
7009.36	-33.20	12.30	20.13	-41.03	-13.00	-28.03	V

WCDMA Band 5: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1652.06	-41.54	9.40	4.75	-36.89	-13.00	-23.89	H
2479.64	-40.17	10.60	8.39	-37.96	-13.00	-24.96	H
3305.72	-31.24	12.00	11.79	-31.03	-13.00	-18.03	H
1652.46	-43.28	9.40	4.75	-38.63	-13.00	-25.63	V
2479.31	-44.59	10.60	8.39	-42.38	-13.00	-29.38	V
3305.84	-43.30	12.00	11.79	-43.09	-13.00	-30.09	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.14	-40.84	9.40	4.75	-36.19	-13.00	-23.19	H
2509.65	-39.56	10.60	8.39	-37.35	-13.00	-24.35	H
3346.34	-32.00	12.00	11.79	-31.79	-13.00	-18.79	H
1673.05	-44.34	9.40	4.75	-39.69	-13.00	-26.69	V
2509.79	-44.09	10.60	8.39	-41.88	-13.00	-28.88	V
3345.97	-42.67	12.00	11.79	-42.46	-13.00	-29.46	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1693.39	-41.43	9.40	4.75	-36.78	-13.00	-23.78	H
2539.07	-40.19	10.60	8.39	-37.98	-13.00	-24.98	H
3386.01	-31.90	12.00	11.79	-31.69	-13.00	-18.69	H
1693.66	-44.52	9.40	4.75	-39.87	-13.00	-26.87	V
2539.28	-44.75	10.60	8.39	-42.54	-13.00	-29.54	V
3386.27	-42.86	12.00	11.79	-42.65	-13.00	-29.65	V

HSDPA Band 5: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1652.06	-41.30	9.40	4.75	-36.65	-13.00	-23.65	H
2479.68	-39.20	10.60	8.39	-36.99	-13.00	-23.99	H
3305.49	-30.93	12.00	11.79	-30.72	-13.00	-17.72	H
1652.14	-44.44	9.40	4.75	-39.79	-13.00	-26.79	V
2479.50	-45.17	10.60	8.39	-42.96	-13.00	-29.96	V
3305.51	-43.51	12.00	11.79	-43.30	-13.00	-30.30	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1672.92	-41.58	9.40	4.75	-36.93	-13.00	-23.93	H
2509.67	-39.26	10.60	8.39	-37.05	-13.00	-24.05	H
3346.32	-31.99	12.00	11.79	-31.78	-13.00	-18.78	H
1673.17	-43.20	9.40	4.75	-38.55	-13.00	-25.55	V
2509.77	-44.93	10.60	8.39	-42.72	-13.00	-29.72	V
3346.25	-43.18	12.00	11.79	-42.97	-13.00	-29.97	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1693.26	-40.60	9.40	4.75	-35.95	-13.00	-22.95	H
2539.08	-39.17	10.60	8.39	-36.96	-13.00	-23.96	H
3386.28	-31.87	12.00	11.79	-31.66	-13.00	-18.66	H
1693.23	-43.48	9.40	4.75	-38.83	-13.00	-25.83	V
2539.37	-44.83	10.60	8.39	-42.62	-13.00	-29.62	V
3385.88	-42.89	12.00	11.79	-42.68	-13.00	-29.68	V

HSUPA Band 5: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1652.19	-41.44	9.40	4.75	-36.79	-13.00	-23.79	H
2479.48	-39.67	10.60	8.39	-37.46	-13.00	-24.46	H
3305.55	-31.23	12.00	11.79	-31.02	-13.00	-18.02	H
1652.03	-43.42	9.40	4.75	-38.77	-13.00	-25.77	V
2479.57	-45.08	10.60	8.39	-42.87	-13.00	-29.87	V
3305.74	-43.11	12.00	11.79	-42.90	-13.00	-29.90	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.27	-41.47	9.40	4.75	-36.82	-13.00	-23.82	H
2509.81	-39.48	10.60	8.39	-37.27	-13.00	-24.27	H
3345.97	-30.96	12.00	11.79	-30.75	-13.00	-17.75	H
1673.22	-43.71	9.40	4.75	-39.06	-13.00	-26.06	V
2509.45	-44.64	10.60	8.39	-42.43	-13.00	-29.43	V
3346.23	-42.50	12.00	11.79	-42.29	-13.00	-29.29	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.27	-41.47	9.40	4.75	-36.82	-13.00	-23.82	H
2509.81	-39.48	10.60	8.39	-37.27	-13.00	-24.27	H
3345.97	-30.96	12.00	11.79	-30.75	-13.00	-17.75	H
1673.22	-43.71	9.40	4.75	-39.06	-13.00	-26.06	V
2509.45	-44.64	10.60	8.39	-42.43	-13.00	-29.43	V
3346.23	-42.50	12.00	11.79	-42.29	-13.00	-29.29	V

5.2 TRANSMITTER RADIATED POWER (EIRP/ERP)

TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

TEST PROCEDURE

1. The testing follows FCC KDB 971168 Section 5.8 and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at 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.

EIRP=S.G Level+ Gain-Cable loss; ERP=S.G Level+ Gain-Cable loss-2.15.

TEST RESULT

Radiated Power (ERP) for GSM 850 MHZ								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain(dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	27.54	0.44	6.5	2.15	31.45	Horizontal	Pass
	824.2	29.34	0.44	6.5	2.15	33.25	Vertical	Pass
	836.6	26.86	0.45	6.5	2.15	30.76	Horizontal	Pass
	836.6	28.82	0.45	6.5	2.15	32.72	Vertical	Pass
	848.8	27.44	0.46	6.5	2.15	31.33	Horizontal	Pass
	848.8	29.29	0.46	6.5	2.15	33.18	Vertical	Pass
GPRS850	824.2	26.83	0.44	6.5	2.15	30.74	Horizontal	Pass
	824.2	29.14	0.44	6.5	2.15	33.05	Vertical	Pass
	836.6	26.52	0.45	6.5	2.15	30.42	Horizontal	Pass
	836.6	28.79	0.45	6.5	2.15	32.69	Vertical	Pass
	848.8	27.11	0.46	6.5	2.15	31.00	Horizontal	Pass
	848.8	29.13	0.46	6.5	2.15	33.02	Vertical	Pass
EGPRS850	824.2	21.11	0.44	6.5	2.15	25.02	Horizontal	Pass
	824.2	23.48	0.44	6.5	2.15	27.39	Vertical	Pass
	836.6	20.94	0.45	6.5	2.15	24.84	Horizontal	Pass
	836.6	23.12	0.45	6.5	2.15	27.02	Vertical	Pass
	848.8	21.60	0.46	6.5	2.15	25.49	Horizontal	Pass
	848.8	23.94	0.46	6.5	2.15	27.83	Vertical	Pass
Limit	ERP<7W=38.45dBm							

Radiated Power (EIRP) for PCS 1900 MHZ							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
PCS1900	1850.2	21.5	2.41	10.35	29.44	Horizontal	Pass
	1850.2	23.22	2.41	10.35	31.16	Vertical	Pass
	1880	21.54	2.42	10.35	29.47	Horizontal	Pass
	1880	23.36	2.42	10.35	31.29	Vertical	Pass
	1909.8	21.74	2.43	10.35	29.66	Horizontal	Pass
	1909.8	23.6	2.43	10.35	31.52	Vertical	Pass
GPRS1900	1850.2	21.12	2.41	10.35	29.06	Horizontal	Pass
	1850.2	23.14	2.41	10.35	31.08	Vertical	Pass
	1880	21.22	2.42	10.35	29.15	Horizontal	Pass
	1880	23.23	2.42	10.35	31.16	Vertical	Pass
	1909.8	21.37	2.43	10.35	29.29	Horizontal	Pass
	1909.8	23.51	2.43	10.35	31.43	Vertical	Pass
EGPRS1900	1850.2	17.19	2.41	10.35	25.13	Horizontal	Pass
	1850.2	19.57	2.41	10.35	27.51	Vertical	Pass
	1880	17.31	2.42	10.35	25.24	Horizontal	Pass
	1880	19.55	2.42	10.35	27.48	Vertical	Pass
	1909.8	17.84	2.43	10.35	25.76	Horizontal	Pass
	1909.8	19.93	2.43	10.35	27.85	Vertical	Pass
Limit	EIRP<2W=33dBm						

Radiated Power (EIRP) for WCDMA Band 2							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
WCDMA	1852.4	14.15	2.41	10.35	22.09	Horizontal	Pass
	1852.4	15.89	2.41	10.35	23.83	Vertical	Pass
	1880	14.41	2.42	10.35	22.34	Horizontal	Pass
	1880	16.34	2.42	10.35	24.27	Vertical	Pass
	1907.4	13.74	2.43	10.35	21.66	Horizontal	Pass
	1907.4	15.46	2.43	10.35	23.38	Vertical	Pass
HSUPA	1852.4	13.64	2.41	10.35	21.58	Horizontal	Pass
	1852.4	15.63	2.41	10.35	23.57	Vertical	Pass
	1880	13.96	2.42	10.35	21.89	Horizontal	Pass
	1880	15.88	2.42	10.35	23.81	Vertical	Pass
	1907.4	13.3	2.43	10.35	21.22	Horizontal	Pass
	1907.4	15.17	2.43	10.35	23.09	Vertical	Pass
HSDPA	1852.4	13.81	2.41	10.35	21.75	Horizontal	Pass
	1852.4	15.63	2.41	10.35	23.57	Vertical	Pass
	1880	14.05	2.42	10.35	21.98	Horizontal	Pass
	1880	15.9	2.42	10.35	23.83	Vertical	Pass
	1907.4	13.98	2.43	10.35	21.90	Horizontal	Pass
	1907.4	15.97	2.43	10.35	23.89	Vertical	Pass
Limit	EIRP<2W=33dBm						

Radiated Power (ERP) for WCDMA Band 5								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
WCDMA	826.4	16.19	0.44	6.5	2.15	20.10	Horizontal	Pass
	826.4	17.98	0.44	6.5	2.15	21.89	Vertical	Pass
	836.6	16.14	0.45	6.5	2.15	20.04	Horizontal	Pass
	836.6	17.98	0.45	6.5	2.15	21.88	Vertical	Pass
	846.4	16.35	0.46	6.5	2.15	20.24	Horizontal	Pass
	846.4	18.06	0.46	6.5	2.15	21.95	Vertical	Pass
HSUPA	826.4	14.91	0.44	6.5	2.15	18.82	Horizontal	Pass
	826.4	16.87	0.44	6.5	2.15	20.78	Vertical	Pass
	836.6	15.16	0.45	6.5	2.15	19.06	Horizontal	Pass
	836.6	16.89	0.45	6.5	2.15	20.79	Vertical	Pass
	846.4	14.97	0.46	6.5	2.15	18.86	Horizontal	Pass
	846.4	16.96	0.46	6.5	2.15	20.85	Vertical	Pass
HSDPA	826.4	14.91	0.44	6.5	2.15	18.82	Horizontal	Pass
	826.4	16.88	0.44	6.5	2.15	20.79	Vertical	Pass
	836.6	15.06	0.45	6.5	2.15	18.96	Horizontal	Pass
	836.6	16.95	0.45	6.5	2.15	20.85	Vertical	Pass
	846.4	15.04	0.46	6.5	2.15	18.93	Horizontal	Pass
	846.4	16.92	0.46	6.5	2.15	20.81	Vertical	Pass
Limit	ERP<7W=38.45dBm							

Radiated Power (EIRP) for WCDMA Band 4							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
WCDMA	1712.6	14.73	2.07	10.13	22.79	Horizontal	Pass
	1712.6	16.47	2.07	10.13	24.53	Vertical	Pass
	1740	14.89	2.08	10.13	22.94	Horizontal	Pass
	1740	16.63	2.08	10.13	24.68	Vertical	Pass
	1752.4	14.82	2.09	10.13	22.86	Horizontal	Pass
	1752.4	16.67	2.09	10.13	24.71	Vertical	Pass
HSUPA	1712.6	13.55	2.07	10.13	21.61	Horizontal	Pass
	1712.6	15.46	2.07	10.13	23.52	Vertical	Pass
	1740	13.6	2.08	10.13	21.65	Horizontal	Pass
	1740	15.55	2.08	10.13	23.60	Vertical	Pass
	1752.4	13.62	2.09	10.13	21.66	Horizontal	Pass
	1752.4	15.52	2.09	10.13	23.56	Vertical	Pass
HSDPA	1712.6	13.69	2.07	10.13	21.75	Horizontal	Pass
	1712.6	15.4	2.07	10.13	23.46	Vertical	Pass
	1740	13.53	2.08	10.13	21.58	Horizontal	Pass
	1740	15.51	2.08	10.13	23.56	Vertical	Pass
	1752.4	13.81	2.09	10.13	21.85	Horizontal	Pass
	1752.4	15.65	2.09	10.13	23.69	Vertical	Pass
Limit	EIRP<1W=30dBm						

APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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