

TEST REPORT



DT&C Co., Ltd.

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1. Report No : DRTFCC2007-0202(2)

2. Customer

• Name (FCC) : LG Electronics USA / Name (IC) : LG ELECTRONICS INC

• Address (FCC) : 111 Sylvan Avenue North Building, Englewood Cliffs, New Jersey, United States 07632
Address (IC) : 60-39, Gasan-Dong, Gumchon-Gu, Seoul 153-801 Korea (Republic Of)

3. Use of Report : FCC & IC Class II Permissive Change

4. Product Name / Model Name : TC10AN3FU / TC10AN3FU
FCC ID : BEJLTTC10F / IC : 2703C-LTTC10F

5. Test Method Used : KDB971168 D01v03r01, ANSI/TIA-603-E-2016, ANSI C63.26-2015
Test Specification : §2, §22(H), §24(E), §27
RSS-132 Issue 3 , RSS-133 Issue 6, RSS-139 Issue3

6. Date of Test : 2020.06.22 ~ 2020.07.13

7. Testing Environment : Refer to appended test report.

8. Test Result : Refer to attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by	Reviewed by
	Name : JungWoo Kim 	Name : JaeJin Lee  (Signature)

2020 . 07 . 14 .

DT&C Co., Ltd.

Not abided by KS Q ISO / IEC 17025 and KOLAS accreditation.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Revised by
DRTFCC2007-0202	Jul. 03, 2020	Initial issue	JungWoo Kim	JaeJin Lee
DRTFCC2007-0202(1)	Jul. 07, 2020	Correct the PMN, Add the test data	JungWoo Kim	JaeJin Lee
DRTFCC2007-0202(2)	Jul. 14, 2020	Retest the output power	JungWoo Kim	JaeJin Lee

Table of Contents

1. GENERAL INFORMATION	4
2. INTRODUCTION	5
2.1. EUT DESCRIPTION	5
2.2. EUT CAPABILITIES.....	5
2.3. TESTING ENVIRONMENT	5
2.4. MEASURING INSTRUMENT CALIBRATION	5
2.5. MEASUREMENT UNCERTAINTY	5
2.6. TEST FACILITY	5
3. DESCRIPTION OF TESTS.....	6
3.1 ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)	6
3.2 RADIATED SPURIOUS EMISSIONS	8
4. LIST OF TEST EQUIPMENT	9
5. SUMMARY OF TEST RESULTS.....	10
6. EMISSION DESIGNATOR AND SAMPLE CALCULATION.....	11
7. TEST DATA	12
7.1 Conducted OUTPUT POWER	12
7.2 EFFECTIVE RADIATED POWER.....	13
7.3 EQUIVALENT ISOTROPIC RADIATED POWER.....	14
7.4 RADIATED SPURIOUS EMISSIONS	15

1. GENERAL INFORMATION

Applicant Name(FCC) : LG Electronics USA
Applicant Name(IC) : LG ELECTRONICS INC
Address(FCC) : 111 Sylvan Avenue North Building, Englewood Cliffs, New Jersey, United States 07632
Address(IC) : 60-39, Gasan-Dong, Gumchon-Gu, Seoul 153-801 Korea (Republic Of)
FCC ID : BEJLTTTC10F
IC : 2703C-LTTC10F
FCC Classification : PCS Licensed Transmitter (PCB)
PMN : TC10AN3FU
Model Name(FCC, IC) : TC10AN3FU
Add Model Name(FCC, IC) : NA
Hardware Version : Rev.E
Software Version : G10NAA31
Serial Number : Conducted & Radiated : 0141340096800001
Supplying power : DC 12 V
Antenna Type : External Antenna (Model : T1xx NA / PN : 84876047)

Mode	Tx Frequency (MHz)	ERP (Max. Power)		EIRP (Max. Power)	
		dBm	W	dBm	W
GPRS850	824.2 ~ 848.8	30.53	1.130	32.68	1.854
EGPRS850	824.2 ~ 848.8	23.58	0.228	25.73	0.374
WCDMA850	826.4 ~ 846.6	21.03	0.127	23.18	0.208
WCDMA1700	1712.4 ~ 1752.6	-	-	22.60	0.182
GPRS1900	1850.2 ~ 1909.8	-	-	30.83	1.211
EGPRS1900	1850.2 ~ 1909.8	-	-	24.38	0.274
WCDMA1900	1852.4 ~ 1907.6	-	-	24.60	0.288

2. INTRODUCTION

2.1. EUT DESCRIPTION

The Equipment Under Test (EUT) supports GPRS/WCDMA/LTE/WLAN/Bluetooth.

2.2. EUT CAPABILITIES

This EUT contains the following capabilities:

850/1900 GPRS/EGPRS, 850/1700/1900 WCDMA/HSUPA, Multi-band LTE, 2.4GHz WLAN and Bluetooth.

2.3. TESTING ENVIRONMENT

Ambient Condition	
▪ Temperature	+20 °C ~ +23 °C
▪ Relative Humidity	43 % ~ 46 %

2.4. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Radiated Disturbance (Below 1 GHz)	4.9 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.1 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Above 18 GHz)	5.3 dB (The confidence level is about 95 %, $k = 2$)

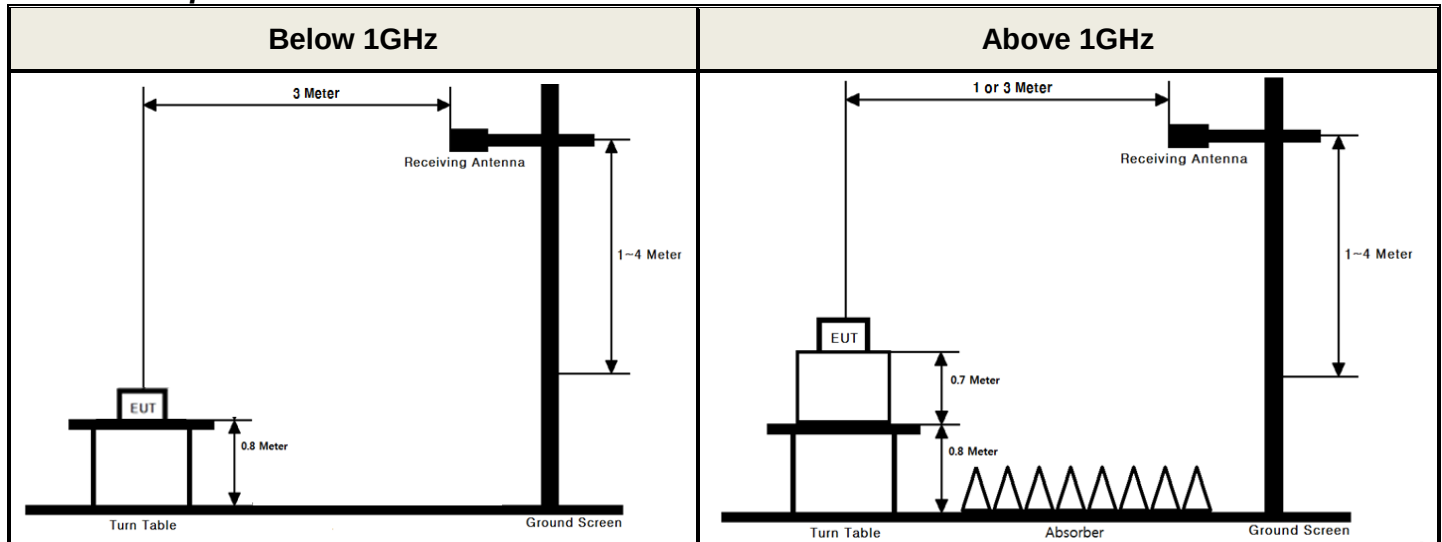
2.6. TEST FACILITY

DT&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.		
The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.		
- FCC & IC MRA Designation No. : KR0034		
- ISED #: 5740A		
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3. DESCRIPTION OF TESTS

3.1 ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Set-up



These measurements were performed at 3 m test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- ANSI/TIA-603-E-2016 - Section 2.2.17
- KDB971168 D01v03 - Section 5.2.2
- ANSI 63.26-2015 – Section 5.2.4.4.1

Test setting

1. Set span to 2 x to 3 x the OBW.
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq$ 3 x RBW.
4. Set number of points in sweep $\geq$ 2 $\times$ span / RBW.
5. Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq$ $[10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
6. Detector = power averaging (rms).
7. If the EUT can be configured to transmit continuously, then set the trigger to free run.
8. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
9. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.

10. Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

The receiver antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminal of the substitute antenna is measured.

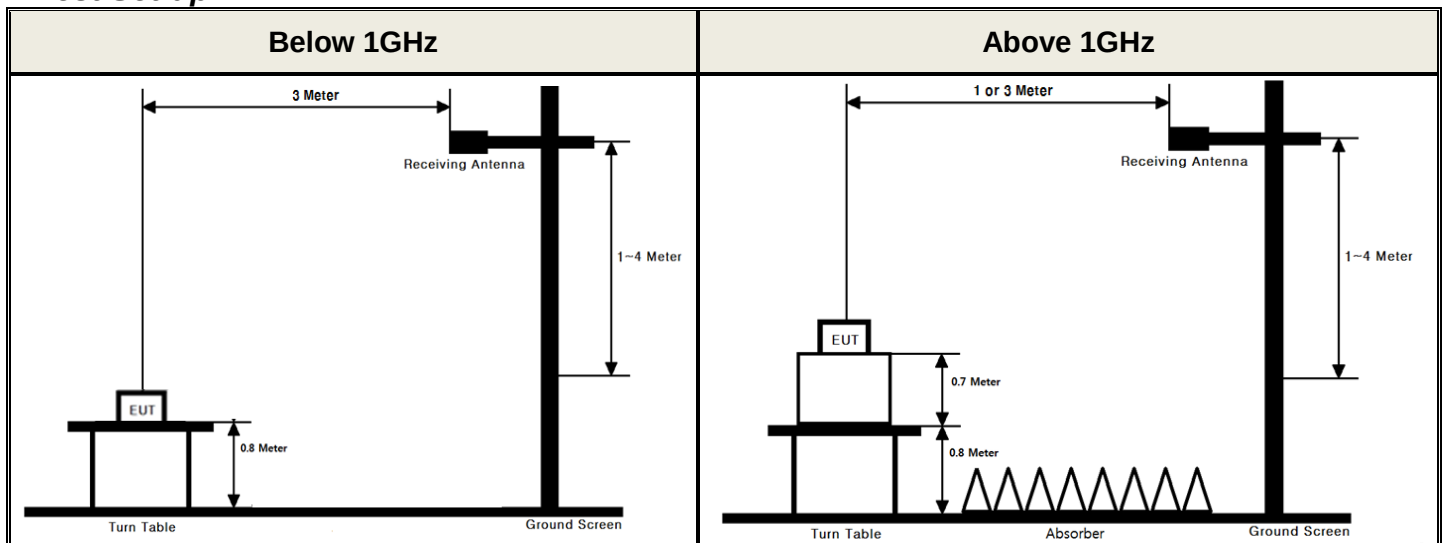
The ERP/EIRP is calculated using the following formula:

ERP/EIRP = The conducted power at the substitute antenna's terminal [dBm] + Substitute Antenna gain [dBd for ERP, dBi for EIRP]

For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn antenna and an isotropic antenna are taken into consideration.

3.2 RADIATED SPURIOUS EMISSIONS

Test Set-up



These measurements were performed at 3 m test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- ANSI/TIA-603-E-2016 - Section 2.2.12
- KDB971168 D01v03 - Section 5.8
- ANSI C63.26-2015 - Section 5.5

Test setting

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW $\geq 3 \times$ RBW
2. Detector = RMS & Trace mode = Max hold
3. Sweep time = Auto couple
4. Number of sweep point $\geq 2 \times$ span / RBW
5. The trace was allowed to stabilize

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

For radiated spurious emission measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated spurious emission measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

4. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal. Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48010133
DC power supply	Agilent Technologies	66332A	19/06/25 20/06/24	20/06/25 21/06/24	MY43001172
Multimeter	FLUKE	17B+	19/12/16	20/12/16	36390701WS
Radio Communication Analyzer	Agilent Technologies	E5515C	19/12/16	20/12/16	GB43461134
Radio Communication Analyzer	Agilent Technologies	E5515C	19/06/28 20/06/24	20/06/28 21/06/24	GB41321164
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-2
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-1
Signal Generator	Rohde Schwarz	SMBV100A	19/12/16	20/12/16	255571
Signal Generator	ANRITSU	MG3695C	19/12/16	20/12/16	173501
Loop Antenna	ETS-Lindgren	6502	19/09/18	21/09/18	00226186
Bilog Antenna	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Dipole Antenna	Schwarzbeck	UHA9105	19/02/28	21/02/28	2261
Dipole Antenna	Schwarzbeck	UHA9105	20/04/10	22/04/10	2262
HORN ANT	ETS	3117	20/04/24	22/04/24	00140394
HORN ANT	ETS	3117	20/03/26	22/03/26	00152145
HORN ANT	A.H.Systems	SAS-574	19/04/23	21/04/23	154
HORN ANT	A.H.Systems	SAS-574	19/07/03	21/07/03	155
Amplifier	EMPOWER	BBS3Q7ELU	19/06/24 20/06/24	20/06/24 21/06/24	1020
PreAmplifier	H.P	8447D	19/12/16	20/12/16	2944A07774
PreAmplifier	Agilent	8449B	19/06/27 20/06/24	20/06/27 21/06/24	3008A02108
High-pass filter	Wainwright	WHKX12-935- 1000-15000-40SS	19/06/24 20/06/24	20/06/24 21/06/24	7
High-pass filter	Wainwright	WHKX12-2580- 3000-18000-80SS	19/06/24 20/06/24	20/06/24 21/06/24	3
Cable	DTNC	Cable	20/01/16	21/01/16	M-01
Cable	DTNC	Cable	20/01/16	21/01/16	M-02
Cable	Junkosha	MWX315	20/01/16	21/01/16	M-05
Cable	Junkosha	MWX221	20/01/16	21/01/16	M-06
Cable	DTNC	Cable	20/01/16	21/01/16	RF-09

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	RSS Section(s)	Parameter	Status Note 1
2.1046	RSS-132 [5.4] RSS-133 [6.4] RSS-139 [6.5]	Conducted Output Power	C
22.913(a) 24.232(c) 27.50(d.4)	RSS-132 [5.4] [SRSP-503(5.1.3)] RSS-133 [6.4] [SRSP-510(5.1.2)] RSS-139[6.5] SRSP-513(5.1.2)]	Effective Radiated Power Equivalent Isotropic Radiated Power	C
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	NA
2.1051 22.917(a) 24.238(a) 27.53(h)	RSS-132 [5.5] RSS-133 [6.5] RSS-139 [6.6]	Band Edge Emissions at Antenna Terminal Spurious Emissions at Antenna Terminal	NA
24.232(d) 27.50(d.5)	RSS-132 [5.4] RSS-133 [6.4] RSS-139 [6.5]	Peak to Average Ratio	NA
2.1053 22.917(a) 24.238(a) 27.53(h)	RSS-132 [5.5] RSS-133 [6.5] RSS-139 [6.6]	Radiated Spurious and Harmonic Emissions	C
2.1055 22.355 24.235 27.54	RSS-132 [5.3] RSS-133 [6.3] RSS-139 [6.4]	Frequency Stability	NA
Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable			

6. EMISSION DESIGNATOR AND SAMPLE CALCULATION

A. For substitution method

- 1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
- 2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3) During the test, the turn table is rotated until the maximum signal is found.
- 4) Record the field strength meter's level. (ex. Spectrum reading level is -8.5 dBm)
- 5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 6) Increase the signal generator output till the field strength meter's level is equal to the item (4).
(ex. Signal generator level is -18.04 dBm)
- 7) The gain of the cable and amplifier between the signal generator and terminals of substituted antenna is 46.92 dB at test frequency.
- 8) Record the level at substituted antenna terminal. (ex. 28.88dBm)
- 9) The result is calculated as below;

$$\text{EIRP(dBm)} = \text{LEVLE@ANTENNA TERMINAL} + \text{TX Antenna Gain (dBi)}$$

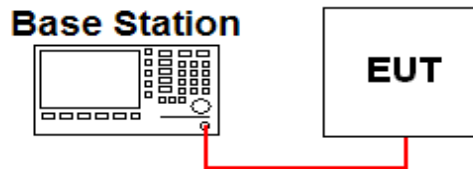
$$\text{ERP(dBm)} = \text{LEVLE@ANTENNA TERMINAL} + \text{TX Antenna Gain (dBd)}$$

$$\text{Where, TX Antenna Gain (dBd)} = \text{TX Antenna Gain (dBi)} - 2.15 \text{ dB}$$

7. TEST DATA

7.1 Conducted OUTPUT POWER

A base station simulator was used to establish communication with the EUT. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



The output power was measured using the Agilent E5515C

▪ GSM/GPRS/EDGE

Band	Channel	Maximum Burst-Averaged Output Power(dBm)			
		GPRS 1 TX Slot	GPRS 2 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot
Cellular	128	32.66	31.61	26.79	25.14
	190	32.58	31.56	26.49	24.94
	251	32.56	31.52	26.86	25.31
PCS	512	29.72	28.19	25.59	24.59
	661	29.89	28.38	25.87	24.31
	810	30.01	28.45	26.03	24.43

▪ WCDMA

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band (dBm)			AWS Band (dBm)			3GPP MPR (dB)
			4132	4183	4233	1312	1412	1513	
99	WCDMA	12.2 kbps RMC	23.49	23.42	23.46	23.64	23.59	23.59	-

3GPP Release Version	Mode	3GPP 34.121 Subtest	PCS Band (dBm)			3GPP MPR (dB)
			9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.40	23.44	23.03	-

7.2 EFFECTIVE RADIATED POWER

- GPRS850 data

Mode	CH	Frequency (MHz)	Ant. Pol. (H/V)	LEVEL@ TX ANTENNA TERMINAL (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Note.
GPRS850	128	824.2	V	29.38	-0.63	28.75	0.750	-
GPRS850	190	836.6	V	31.27	-0.74	30.53	1.130	-
GPRS850	251	848.8	V	30.19	-0.85	29.34	0.859	-
EGPRS850	190	836.6	V	24.32	-0.74	23.58	0.228	

- WCDMA850 data

Mode	CH	Frequency (MHz)	Ant. Pol. (H/V)	LEVEL@ TX ANTENNA TERMINAL (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Note.
WCDMA850	4132	826.4	V	20.48	-0.65	19.83	0.096	-
WCDMA850	4183	836.6	V	21.07	-0.74	20.33	0.108	-
WCDMA850	4233	846.6	V	21.86	-0.83	21.03	0.127	-

NOTES:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna.

The worst case data is reported.

7.3 EQUIVALENT ISOTROPIC RADIATED POWER

- WCDMA1700 data

Mode	CH	Frequency (MHz)	Ant. Pol. (H/V)	LEVEL@ TX ANTENNA TERMINAL (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Note.
WCDMA1700	1312	1 712.4	V	17.25	5.25	22.50	0.178	-
WCDMA1700	1412	1 732.4	V	16.95	5.33	22.28	0.169	-
WCDMA1700	1513	1 752.6	V	17.23	5.37	22.60	0.182	-

- GPRS1900 data

Mode	CH	Frequency (MHz)	Ant. Pol. (H/V)	LEVEL@ TX ANTENNA TERMINAL (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Note.
GPRS1900	512	1 850.2	V	23.80	4.90	28.70	0.741	-
GPRS1900	661	1 880.0	V	25.19	4.60	29.79	0.953	-
GPRS1900	810	1 909.8	V	26.39	4.44	30.83	1.211	-
EGPRS1900	810	1 909.8	V	19.94	4.44	24.38	0.274	-

- WCDMA1900 data

Mode	CH	Frequency (MHz)	Ant. Pol. (H/V)	LEVEL@ TX ANTENNA TERMINAL (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Note.
WCDMA1900	9262	1 852.4	V	18.57	4.88	23.45	0.221	-
WCDMA1900	9400	1 880.0	V	19.52	4.60	24.12	0.258	-
WCDMA1900	9538	1 907.6	V	20.17	4.43	24.60	0.288	-

:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna.

The worst case data is reported.

7.4 RADIATED SPURIOUS EMISSIONS

- GPRS850 data

Channel (ERP)	Tx Freq. (MHz)	Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINAL (dBm)	Substitute Antenna Gain (dBd)	Correct Generator Level (dBm)	Limit (dBm)	Margin (dB)
128 (0.750 W)	824.2	1 648.90	V	-56.59	4.16	-52.43	-13.00	39.43
		2 472.65	V	-49.89	3.59	-46.30	-13.00	33.30
190 (1.130 W)	836.6	1 673.07	V	-52.25	3.64	-48.61	-13.00	35.61
		2 509.66	V	-45.27	3.79	-41.48	-13.00	28.48
251 (0.859 W)	848.8	1 697.68	V	-53.22	3.10	-50.12	-13.00	37.12
		2 546.25	V	-48.71	3.94	-44.77	-13.00	31.77

- No other spurious and harmonic emissions were reported greater than listed emissions above table.

NOTES:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna.

The worst case data is reported.

- WCDMA850 data

Channel (ERP)	Tx Freq. (MHz)	Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINAL (dBm)	Substitute Antenna Gain (dBd)	Correct Generator Level (dBm)	Limit (dBm)	Margin (dB)
4132 (0.096 W)	826.4	1 654.30	V	-46.35	4.06	-42.29	-13.00	29.29
		2 481.74	V	-54.49	3.64	-50.85	-13.00	37.85
4183 (0.108 W)	836.6	1 674.72	V	-53.32	3.61	-49.71	-13.00	36.71
		2 511.56	V	-53.38	3.80	-49.58	-13.00	36.58
4233 (0.127 W)	846.6	1 690.72	V	-51.83	3.25	-48.58	-13.00	35.58
		2 534.92	V	-54.48	3.89	-50.59	-13.00	37.59

- No other spurious and harmonic emissions were reported greater than listed emissions above table.

NOTES:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna.

The worst case data is reported.

- WCDMA1700 data

Channel (EIRP)	Tx Freq. (MHz)	Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINAL (dBm)	Substitute Antenna Gain (dBi)	Correct Generator Level (dBm)	Limit (dBm)	Margin (dB)
1312 (0.178 W)	1 712.4	3 427.30	V	-39.51	7.75	-31.76	-13.00	18.76
		5 133.20	V	-33.72	10.30	-23.42	-13.00	10.42
		6 854.34	V	-33.54	11.30	-22.24	-13.00	9.24
		8 567.94	V	-44.66	13.20	-31.46	-13.00	18.46
1412 (0.169 W)	1 732.4	3 465.94	V	-45.60	7.83	-37.77	-13.00	24.77
		5 199.34	V	-42.48	10.40	-32.08	-13.00	19.08
		6 922.02	V	-53.39	11.34	-42.05	-13.00	29.05
		8 664.84	V	-51.82	13.20	-38.62	-13.00	25.62
1513 (0.182 W)	1 752.6	3 506.90	V	-50.25	7.93	-42.32	-13.00	29.32
		5 254.88	V	-46.23	10.31	-35.92	-13.00	22.92
		7 012.20	V	-53.12	11.52	-41.60	-13.00	28.60
		8 759.32	V	-52.02	13.36	-38.66	-13.00	25.66

- No other spurious and harmonic emissions were reported greater than listed emissions above table.

NOTES:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna.

The worst case data is reported.

- GPRS1900 data

Channel (EIRP)	Tx Freq. (MHz)	Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINAL (dBm)	Substitute Antenna Gain (dBi)	Correct Generator Level (dBm)	Limit (dBm)	Margin (dB)
512 (0.741 W)	1 850.2	3 700.52	V	-34.48	8.30	-26.18	-13.00	13.18
		5 550.41	V	-29.17	10.50	-18.67	-13.00	5.67
		7 400.84	V	-27.07	12.00	-15.07	-13.00	2.07
		9 250.67	V	-31.62	13.20	-18.42	-13.00	5.42
661 (0.953 W)	1 880.0	3 760.04	V	-41.02	8.42	-32.60	-13.00	19.60
		5 639.73	V	-30.46	10.72	-19.74	-13.00	6.74
		7 520.11	V	-42.53	12.14	-30.39	-13.00	17.39
		9 400.28	V	-43.50	13.20	-30.30	-13.00	17.30
810 (1.211 W)	1 909.8	3 819.30	V	-30.24	8.50	-21.74	-13.00	8.74
		5 729.22	V	-26.86	10.60	-16.26	-13.00	3.26
		7 639.33	V	-44.81	12.20	-32.61	-13.00	19.61
		9 549.30	V	-41.68	13.30	-28.38	-13.00	15.38

- No other spurious and harmonic emissions were reported greater than listed emissions above table.

NOTES:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna. The worst case data is reported.

- WCDMA1900 data

Channel (EIRP)	Tx Freq. (MHz)	Freq. (MHz)	POL (H/V)	LEVEL@ ANTENNA TERMINAL (dBm)	Substitute Antenna Gain (dBi)	Correct Generator Level (dBm)	Limit (dBm)	Margin (dB)
9262 (0.221 W)	1852.4	3 703.24	V	-43.78	8.31	-35.47	-13.00	22.47
		5 555.04	V	-44.77	10.53	-34.24	-13.00	21.24
9400 (0.258 W)	1880.0	3 762.10	V	-53.78	8.42	-45.36	-13.00	32.36
		5 639.96	V	-50.16	10.72	-39.44	-13.00	26.44
9538 (0.288 W)	1907.6	3 816.70	V	-49.78	8.50	-41.28	-13.00	28.28
		5 722.74	V	-45.43	10.60	-34.83	-13.00	21.83

- No other spurious and harmonic emissions were reported greater than listed emissions above table.

NOTES:

This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to "1" and in GSM mode using a Power Control Level of "0" in PCS Band and "5" in the Cellular Band. This EUT was tested with the fully charged battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization of detecting antenna.

The worst case data is reported.