

FCC Part 22/24/27 Compliance Test Report

Test Report no.:	FCC22&24&27_RM-675_12	Date of Report:	05-Aug-2010
Number of pages:	20	Customer's Contact person:	Alison Lenaghan
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FCC listing no.:	99059		
IC recognition no.:	661AL-1		
Tested devices/ accessories:	Phone RM-675 / Battery BL-5K / AC-Charger AC-15E / Headset WH-102		
FCC ID:	QFXRM-675X	IC:	661Z-RM675
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Parts 22/24/27 , TIA-603-C-2004 and IC standards, RSS-GEN (Issue 2, June 2007), RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), RSS-139 (Issue 2, February 2009). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		
Documentation:	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test Results:	The EUT complies with the requirements in respect of all parameters subject to the test. The test results relate only to devices specified in this document		
Date and signature for the contents:			

Christian Andersen, System Specialist, EMC

1. Summary for FCC Part 22/24/27 Compliance Test Report

Date of receipt	03-Jun-2010
Testing completed	02-Aug-2010
The customer's contact person	Alison Lenaghan
Test Plan referred to	T:\Projects\RM-675\TestPlan\RS_testplan_RM-675.xls
Notes	-
Document name	T:\Projects\RM-675\EMC\FCC22&24&27_RM-675_12.docx

1.1. EUT and Accessory Information

The EUT is a 9-band (GSM850/900/1800/1900) and WCDMA Band (I/II(1900)/IV(1700)/V(850)/VIII/) mobile phone with GPRS, EGPRS, HSDPA, HSUPA and WLAN and Bluetooth and FM transmitter. The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-675	004402/13/142374/5	3001	-	010.022	24197
Battery	BL-5K	4620400051K10101254;0670580	-	-	-	24194
AC-Charger	AC-15E	4090499512230701366;0675463	-	-	-	24188
Headset	WH-102	0694323939454109306	-	-	-	24190
Dummy Battery	SD-77v.2	21.12.2009/03618	3001	-	-	24160
Phone	RM-675	004402/13/142187/1	3001	-	010.022	24196
Battery	BL-5K	4620400051K10101247;0670580	-	-	-	24193

1.2. Summary of Test Results

GSM850:

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	Passed
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	Passed
§2.1055(a)	4.3	Frequency stability, temperature variation	Passed
§2.1055(d)	4.3	Frequency stability, voltage variation	Passed

WCDMA 850 (Band V):

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	Passed
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	Passed
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

GSM1900:

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	NP
§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	Passed
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	Passed
§2.1055(a)	6.3	Frequency stability, temperature variation	Passed
§2.1055(d)	6.3	Frequency stability, voltage variation	Passed

WCDMA 1900 (Band II):

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	NP
§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	Passed
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	Passed
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

WCDMA 1700 (Band IV):

Section in CFR 47	Section in RSS-GEN or RSS-139	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	NP
§27.50(d)(2)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	Passed
§27.53(g)	6.5	Band edge compliance	NP
§27.53(g), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	Passed
§2.1055(a)	6.3	Frequency stability, temperature variation	Passed
§2.1055(d)	6.3	Frequency stability, voltage variation	Passed

PASSED

FAILED

NP

The EUT complies with the essential requirements in the standard.

The EUT does not comply with the essential requirements in the standard.

The test was not performed by the TCC Nokia Laboratory.

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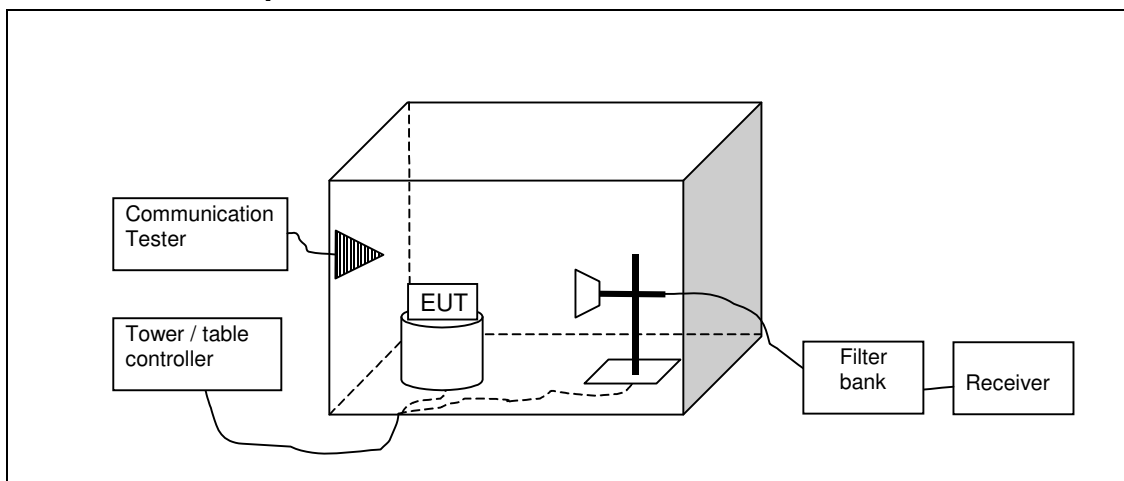
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2. Spurious radiated emissions

(FCC §22.917(a), §2.1053, §24.238(a), §2.1053, §27.53(g), §2.1053, RSS-132 4.5, RSS-133 6.5, RSS-139 6.5)

EUT with DUT number	RM-675, DUT 24197
Accessories with DUT numbers	BL-5K, DUT 24194 ; AC-15E, DUT 24188 ; WH-102, DUT 24190
Operation Voltage [V] / [Hz]	115 / 60
Results	Passed
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 43 / 99.8
Date of measurements	13-Jul-2010
Measured by	Ruben Hansen

2.1. Test Setup



2.2. Test method and limit

The measurement is made according to TIA-603-C-2004 as follows:

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

For each suspected frequency, the turntable is rotated 360 degrees and antenna is scanned from 1 to 4 m. This is repeated for both horizontal and vertical receive antenna polarizations.

The emissions less than 20 dB below the permissible value are reported.

The substitution method is used. Substitution values at each frequencies are measured

5 (20)

beforehand and saved to the test software.

The substitution corrections are obtained as described below:

$$A_{SUBST} = P_{SUBST\ TX} - P_{SUBST\ RX} - L_{SUBST\ CABLES} + G_{SUBST\ TX\ ANT}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain. $P_{SUBST\ TX}$ is signal generator level, $P_{SUBST\ RX}$ is receiver level, $L_{SUBST\ CABLES}$ is cable losses including both TX and RX cables and $G_{SUBST\ TX\ ANT}$ is substitution antenna gain.

The measurement results are obtained as described below:

$$P[dBm] = P_{MEAS} + A_{TOT}$$

Where P_{MEAS} is receiver reading in dBm and A_{TOT} is total correction factor including cable loss and substitution correction ($A_{TOT} = L_{CABLES} - G_{PREAMP} + A_{SUBST}$).

Limits for spurious radiated emissions measurements

Operation band	Frequency range [MHz]	Limit [dBm]
GSM 850 / WCDMA 850	30 - 8500	-13
GSM 1900 / WCDMA 1700 / WCDMA 1900	30 - 18500	-13

2.3. GSM850 TX Test results

GSM mode, channel 190 / 836.6 MHz

Frequency [MHz]	P[dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1676.417	-57.63	0.00173	-62.39	4.76	HORIZONTAL	Passed
1689.135	-57.38	0.00183	-62.73	5.35	VERTICAL	Passed
1707.993	-58.68	0.00136	-63.68	5	HORIZONTAL	Passed
2509.679	-45.83	0.02612	-56.94	11.11	VERTICAL	Passed
2550.12	-51.55	0.007	-63.29	11.74	VERTICAL	Passed
7039.018	-48.71	0.01346	-69.58	20.87	HORIZONTAL	Passed

EGPRS mode, channel 190 / 836.6 MHz

Frequency [MHz]	P[dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1665.371	-58.42	0.00144	-63.3	4.88	HORIZONTAL	Passed
1673.106	-55.45	0.00285	-60.22	4.77	HORIZONTAL	Passed
1683.547	-57.93	0.00161	-63.25	5.32	VERTICAL	Passed
2509.499	-49.56	0.01107	-60.67	11.11	VERTICAL	Passed
2510.06	-48.61	0.01377	-59.72	11.11	VERTICAL	Passed
7005.772	-49.15	0.01216	-68.48	19.33	HORIZONTAL	Passed

2.4. GSM1900 TX Test results

GSM mode, channel 661 / 1880.0 MHz

Frequency [MHz]	P[dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
9514.509	-41.89	0.06471	-69.42	27.53	VERTICAL	Passed
9794.108	-41.45	0.07161	-69.12	27.67	VERTICAL	Passed
9851.423	-41.72	0.0673	-69.32	27.6	HORIZONTAL	Passed
9906.373	-41.31	0.07396	-68.56	27.25	VERTICAL	Passed
17857.956	-30.47	0.89743	-76.15	45.68	HORIZONTAL	Passed
17899.88	-28.32	1.47231	-76.74	48.42	HORIZONTAL	Passed

EGPRS mode, channel 661 / 1880.0 MHz

Frequency [MHz]	P[dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
9524.91	-40.62	0.0867	-68.89	28.27	VERTICAL	Passed
9754.89	-41.14	0.07691	-68.87	27.73	VERTICAL	Passed
9815.731	-40.62	0.0867	-68.31	27.69	HORIZONTAL	Passed
9932.766	-41.22	0.07551	-68.14	26.92	VERTICAL	Passed
17841.663	-29.64	1.08643	-75.53	45.89	HORIZONTAL	Passed
17901.343	-28.84	1.30617	-77.18	48.34	HORIZONTAL	Passed

2.5. WCDMA2 TX Test results

Channel 9400 / 1880.0 MHz

Frequency [MHz]	P[dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1911.306	-54.28	0.00373	-62.72	8.44	HORIZONTAL	Passed
9574.629	-41.64	0.06855	-69.81	28.17	HORIZONTAL	Passed
9743.647	-41.42	0.07211	-68.99	27.57	VERTICAL	Passed
9837.034	-39.89	0.10257	-67.46	27.57	HORIZONTAL	Passed
17895.711	-29.17	1.2106	-75.93	46.76	VERTICAL	Passed
17990.597	-28.44	1.43219	-77.7	49.26	HORIZONTAL	Passed

2.6. WCDMA4 TX Test results

Channel 1412 / 1732.4 MHz

Frequency [MHz]	P[dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1705.354	-54.18	0.00382	-57.85	3.67	VERTICAL	Passed
1713.421	-53.83	0.00414	-57.35	3.52	VERTICAL	Passed
13753.507	-43.65	0.04315	-66.29	22.64	VERTICAL	Passed
13911.303	-43.03	0.04977	-67.14	24.11	VERTICAL	Passed
14097.435	-42.3	0.05888	-67.24	24.94	HORIZONTAL	Passed
14698.096	-42.5	0.05623	-66.5	24	HORIZONTAL	Passed

2.7. WCDMA5 TX Test results

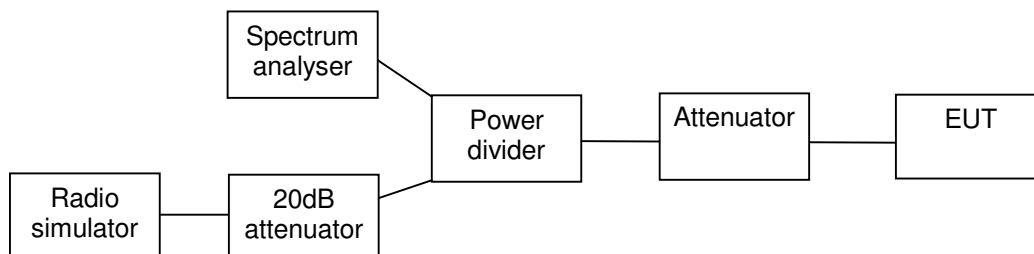
Channel 4175 / 835.0 MHz

Frequency [MHz]	P[dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1668.578	-50.3	0.00933	-55.48	5.18	VERTICAL	Passed
1668.703	-51.46	0.00714	-56.34	4.88	HORIZONTAL	Passed
2508.076	-48.95	0.01274	-60.09	11.14	VERTICAL	Passed
2549.098	-51.07	0.00782	-62.8	11.73	VERTICAL	Passed
3337.114	-57.65	0.00172	-64.71	7.06	VERTICAL	Passed
3341.924	-59.53	0.00111	-67.39	7.86	HORIZONTAL	Passed

3. 99 % occupied bandwidth (FCC §2.1049(h), RSS-GEN 4.6.1)

EUT with DUT number	RM-675 DUT 24196
Accessories with DUT numbers	BL-5K, DUT 24194 ; AC-15E, DUT 24188 ; WH-102, DUT 24190
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	none
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 41 / 104
Date of measurements	02-Aug-2010
Measured by	Bo Moltved Christiansen

3.1. Test setup



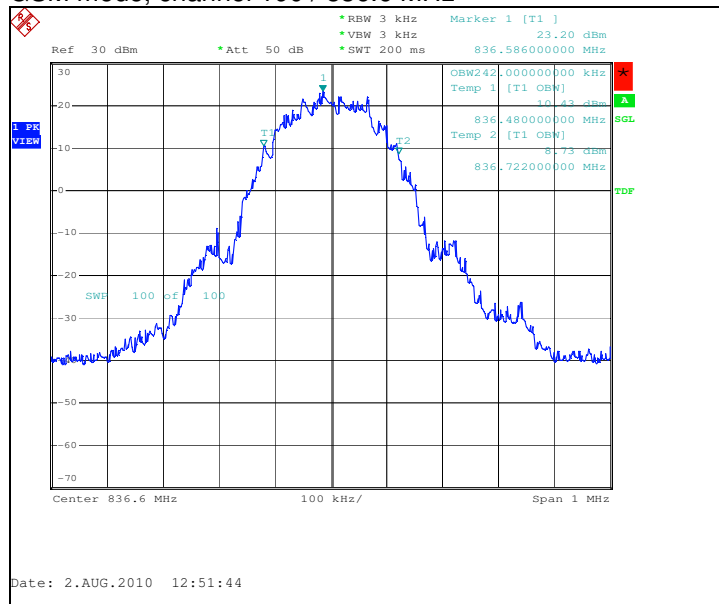
3.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24 and 27 and IC standard RSS-GEN.

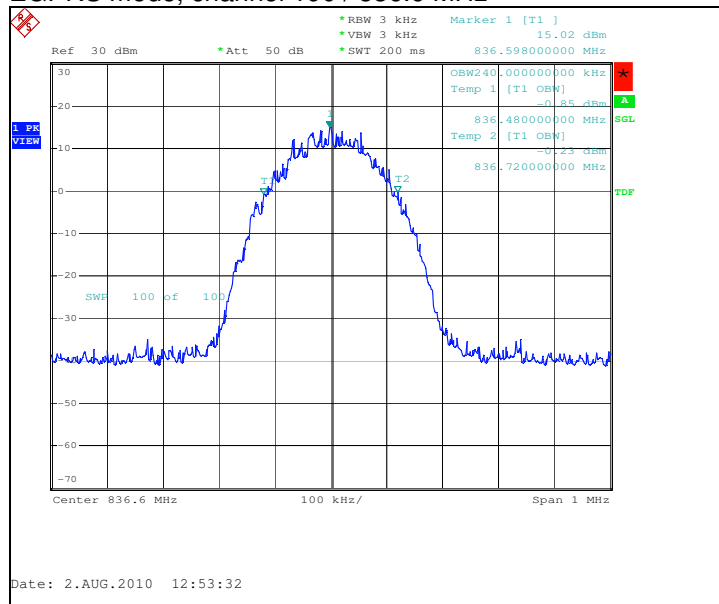
3.3. GSM 850 Test results

Operation mode (TX on)	99% occupied bandwidth [kHz]
GSM	242.000
EGPRS	240.000

GSM mode, channel 190 / 836.6 MHz



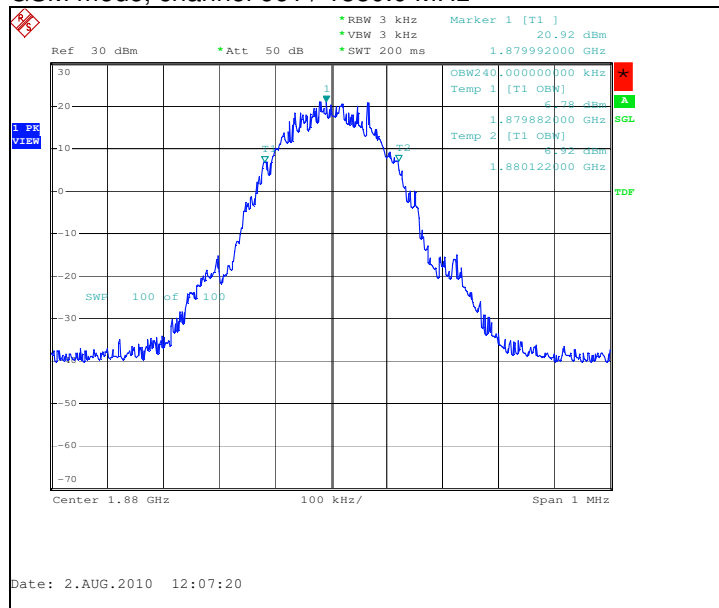
EGPRS mode, channel 190 / 836.6 MHz



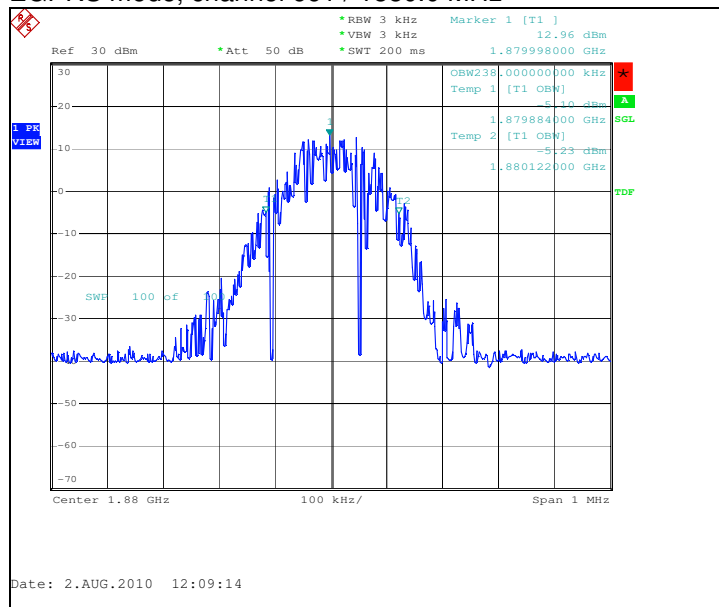
3.4. GSM 1900 Test results

Operation mode (TX on)	99% occupied bandwidth [kHz]
GSM	240.000
EGPRS	238.000

GSM mode, channel 661 / 1880.0 MHz



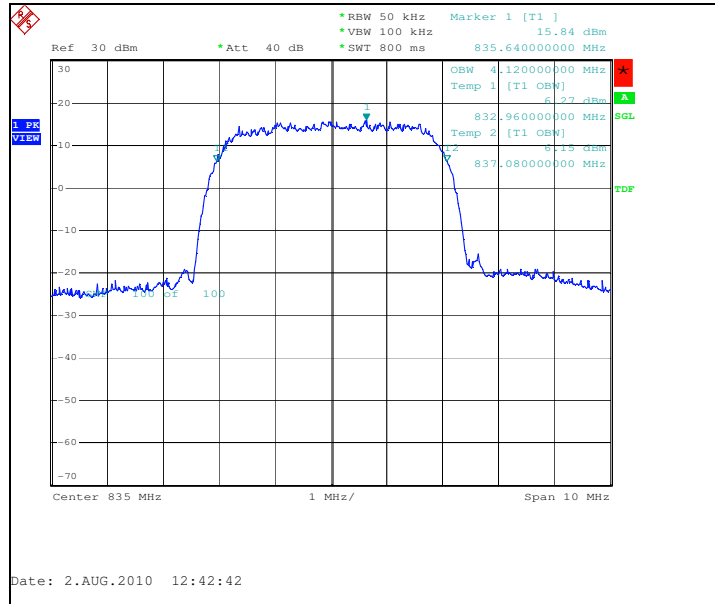
EGPRS mode, channel 661 / 1880.0 MHz



3.5. WCDMA 850 Test results

Operation mode (TX on)	99% occupied bandwidth [kHz]
FDD	4120.000

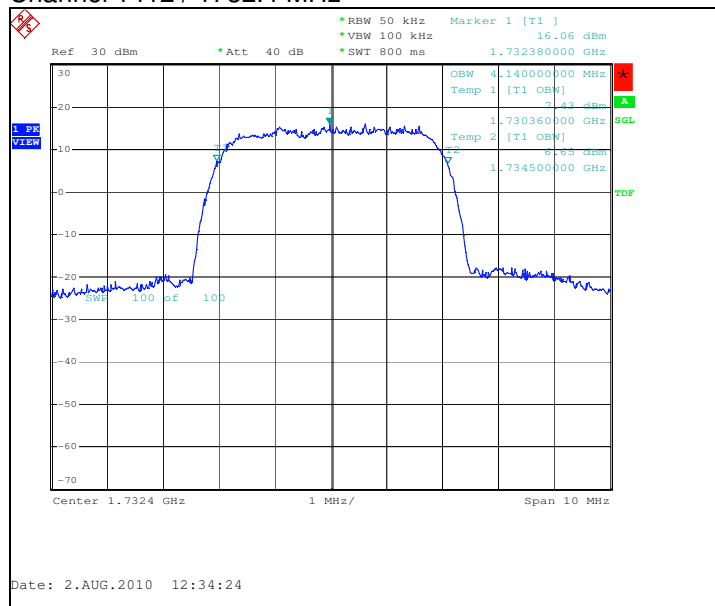
Channel 4175 / 835.0 MHz



3.6. WCDMA 1700 Test results

Operation mode (TX on)	99% occupied bandwidth [kHz]
FDD 4	4140.000

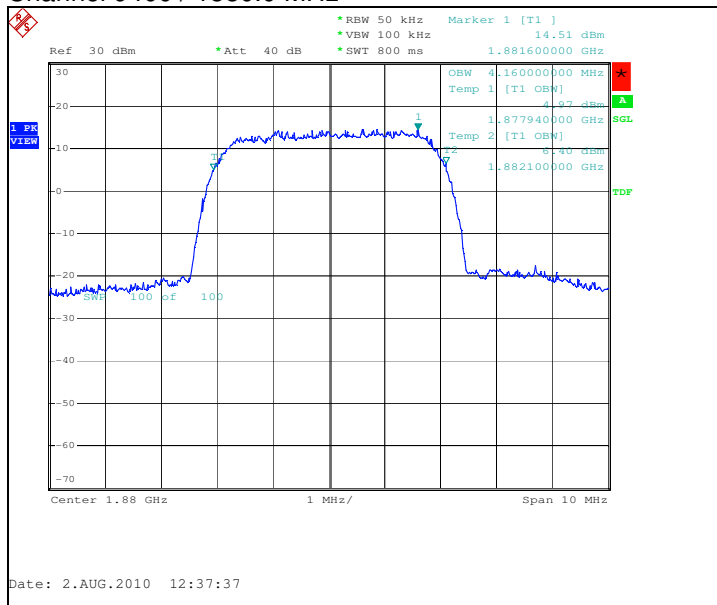
Channel 1412 / 1732.4 MHz



3.7. WCDMA 1900 Test results

Operation mode (TX on)	99% occupied bandwidth [kHz]
FDD 2	4160.000

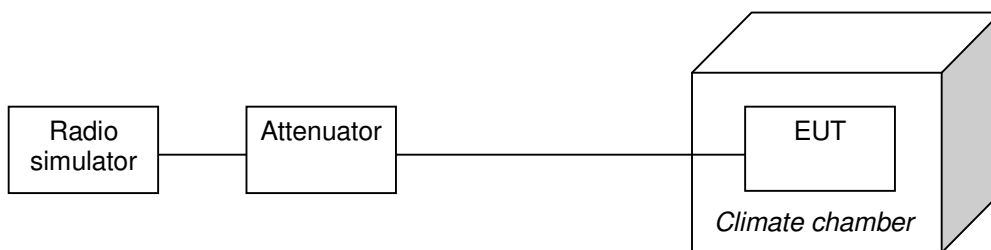
Channel 9400 / 1880.0 MHz



4. Frequency stability, temperature variation (FCC §2.1055(a), RSS-132 4.3, RSS-133 6.3, RSS-139 6.3)

EUT with DUT number	RM-675 DUT 24196
Accessories with DUT numbers	BL-5K, DUT 24194 ; AC-15E, DUT 24188 ; WH-102, DUT 24190
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	none
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 41 / 104
Date of measurements	02-Aug-2010
Measured by	Christian Andersen

4.1. Test setup



4.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24 and 27 and IC standards RSS-132, RSS-133 and RSS-139 as follows:

The climate chamber temperature is set to the maximum value and the temperature is allowed to stabilize.
The EUT is placed in the chamber.
The EUT is set in idle mode for 15 minutes.
The EUT is set to transmit.
The transmit frequency error was measured immediately.
The steps c - e were repeated for each temperature.

Limits for frequency stability, temperature variation measurements

Frequency deviation [ppm]
± 2.5

4.3. GSM 850 Test results

GSM mode, channel 190 / 836.6 MHz

Temperature [°C]	Deviation [Hz]	Deviation [ppm]
50	-12	-0.0143
40	-10	-0.0120
30	-8	-0.0096
20	-20	-0.0239
10	-6	-0.0072
0	-6	-0.0072
-10	-12	-0.0143
-20	-5	-0.0060
-22	-19	-0.0227
-24	-6	-0.0072
-26	-12	-0.0143
-28	NP	NP
-30	NP	NP

Mobile switch off at -28 °C

4.4. GSM 1900 Test results

GSM mode, channel 661 / 1880.0 MHz

Temperature [°C]	Deviation [Hz]	Deviation [ppm]
50	-22	-0.0117
40	-15	-0.0080
30	-20	-0.0106
20	-23	-0.0122
10	24	0.0128
0	-19	-0.0101
-10	-20	-0.0106
-20	-33	-0.0176
-22	-36	-0.0191
-24	-24	-0.0128
-26	-40	-0.0213
-28	41	0.0218
-30	NP	NP

Mobile switch off at -30 °C

4.5. WCDMA 1700 Test results

Channel 1412 / 1732.4 MHz

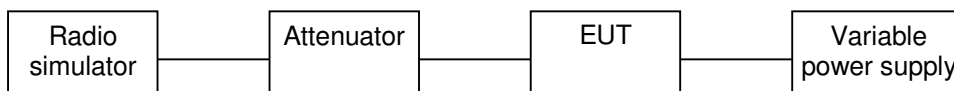
Temperature [°C]	Deviation [Hz]	Deviation [ppm]
50	8	0.0046
40	-19	-0.0110
30	-23	-0.0133
20	-24	-0.0139
10	-35	-0.0202
0	41	0.0237
-10	-29	-0.0167
-20	-34	-0.0196
-22	18	0.0104
-24	28	0.0162
-26	NP	NP
-28	NP	NP
-30	NP	NP

Mobile switch off at -26 °C

5. Frequency stability, voltage variation (FCC §2.1055(d), RSS-132 4.3, RSS-133 6.3, RSS-139 6.3)

EUT with DUT number	RM-675 DUT 24196
Accessories with DUT numbers	SD-77 DUT 24160
Operation Voltage [V] / [Hz]	-
Result	Passed
Remarks	none
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 41 / 104
Date of measurements	02-Aug-2010
Measured by	Bo Moltved Christiansen

5.1. Test setup



5.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24 and 27 and IC standards RSS-132, RSS-133 and RSS-139 as follows:

The EUT battery was replaced with an adjustable power supply. The frequency stability was measured at nominal voltage and at the battery cut-off point.

Limits for frequency stability, voltage variation measurements

Frequency deviation [ppm]
± 2.5

5.3. GSM 850 Test results

GSM mode, channel 190 / 836.6 MHz

Voltage level [V]	Deviation [Hz]	Deviation [ppm]
Battery cut-off point / 3.50	13	0.0155
Nominal / 3.70	-17	-0.0203

5.4. GSM 1900 Test results

GSM mode, channel 661 / 1880.0 MHz

Voltage level [V]	Deviation [Hz]	Deviation [ppm]
Battery cut-off point / 3.50	-11	-0.0059
Nominal / 3.70	14	0.0074

5.5. WCDMA 1700 Test results

Channel 1412 / 1732.4 MHz

Voltage level [V]	Deviation [Hz]	Deviation [ppm]
Battery cut-off point / 3.50	9	0.0052
Nominal / 3.70	-24	-0.0139

6. Test Equipment

6.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
20168	Bluetooth Tester	CBT	Rohde&Schwarz	22/24/27, 15C, 15B
18772	Shielded Chamber	RFD-100	ETS-Lindgren	15C, 15B
13037	Power Supply 0-15V 10A	EA3012	LP Instruments	15C, 15B
13513	Pulse Limiter	ESH3Z2	Rohde&Schwarz	15C, 15B
13666	Receiver	ESPC	Rohde&Schwarz	15C, 15B
13935	LISN	ESH3-Z5	Rohde&Schwarz	15C, 15B
16995	Directional Coupler 20dB 0,5-2,0 GHz SMA Conn.	1538RA-20	Weinschel	15C, 15B
18772	Shielded Chamber	RFD-100	ETS-Lindgren	15C, 15B
19171	Communication Tester	CMU200	Rohde&Schwarz	15C, 15B
11386	DC Power Supply	HP6632A	Hewlett Packard	22/24/27, 15C, 15B
19678	Spectrum Analyzer	FSP	Rohde&Schwarz	22/24/27, 15C, 15B
16601	Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
19625	Climatic Chamber	VT4002EMC	Vötsch	22/24/27, 15C, 15B
13357	Signal Generator	SMP02	Rohde&Schwarz	22/24/27, 15C, 15B
19116	Power splitter	-	various	22/24/27, 15C, 15B
20544	Transformer. 230/115V	-	Nokia	22/24/27, 15C, 15B
20543	UPS. 700V/A 490W	PW 9120 700i	Powerware	22/24/27, 15C, 15B

6.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
18792	Mast/turntable controller	2090	ETS-EMCO	22/24/27, 15C, 15B
18416	Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
20168	Bluetooth Tester	CBT	Rohde&Schwarz	22/24/27, 15C, 15B
13077	Power Supply	EA-3016	-	22/24/27, 15C, 15B
15742	Programmable Relay Switching System	-----	Pickering	22/24/27, 15C, 15B
20078	Relay 2x6 Chnl μ Wave Mux	10-785B-522	Pickering	22/24/27, 15C, 15B
14021	Relay Dual 6 Chnl μ Wave Mux	10-785-522	-	22/24/27, 15C, 15B
-	Relay Dual 6 Chnl μ Wave Mux	10-785-522	-	22/24/27, 15C, 15B
17644	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24/27, 15C, 15B
16948	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24/27, 15C, 15B
16949	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24/27, 15C, 15B
18861	Receiver	EMI Test Receiver 20Hz-26,5GHz ESI	Rohde&Schwarz	22/24/27, 15C, 15B
18860	Antenna	HL562	Rohde&Schwarz	22/24/27, 15C, 15B
18773	Anechoic chamber	RFD-100	ETS-Lindgren	22/24/27, 15C, 15B
18774	Anechoic chamber	RFSD-F/A-100	ETS-Lindgren	22/24/27, 15C, 15B
19151	High Pass Filter	WHJS3000-10SS	Wainwright	22/24/27, 15C, 15B
13937	Band reject filter	WRCA902.4-0.2/40-6SS	Wainwright Instruments	22/24/27, 15C, 15B
13936	Band reject filter	WRCD1747.5-0.2/40-10SS	Wainwright Instruments	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
14114	Highpass Filter	WHK1000-12SS	Wainwright Instruments	22/24/27, 15C, 15B
14188	Band reject filter	WRCA902.4-0.2/40-6SS	Wainwright	22/24/27, 15C, 15B
14187	Band reject filter	WRCD1747.5-0.2/40-10SS	Wainwright	22/24/27, 15C, 15B
16633	Band reject filter	WRCD1880.0-0.2/40-10SS	Wainwright	22/24/27, 15C, 15B
19587	Band reject filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	22/24/27, 15C, 15B
20115	Band reject filter	-	Wainwright	22/24/27, 15C, 15B
20114	Band reject filter	WRCG1737/1743-1733/1747-40/6SS	Wainwright	22/24/27, 15C, 15B
20116	Band reject filter	WRCG832/83/-825/845-40/5SS	Wainwright	22/24/27, 15C, 15B
20698	Antenna	BBHA 9120 D	SCHWARZBECK	22/24/27, 15C, 15B
19966	Antenna	HFH2-Z2	Rohde&Schwarz	15C, 15B
13799	Signal Generator	SMP02	Rohde&Schwarz	22/24/27, 15C, 15B
15191	Turntable Contoller Unit	G-800SDX	YAESU	22/24/27, 15C, 15B
14900	Antenna Controller	HD100	HD GmbH	22/24/27, 15C, 15B
20544	Transformer. 230/115V	-	Nokia	22/24/27, 15C, 15B
20543	UPS. 700V/A 490W	PW 9120 700i	Powerware	22/24/27, 15C, 15B