

FCC Part 22/24/27 Compliance Test Report

Test Report no.:	FCC22&24&27_RM-878_01.docx	Date of Report:	25-Sep-2012
Number of pages:	20	Customer's Contact person:	Jerry Williams
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FCC listing no.:	586140		
IC recognition no.:	10162A-1		
Tested devices/accessories:	Phone RM-878 / Battery BP-4W		
FCC ID:	QMNRM-878	IC:	661X-RM878
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 3, December 2010), 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:			

Feng You, Senior Specialist

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

Date of receipt	23-Aug-2012
Testing completed	07-Sep-2012
The customer's contact person	Jerry Williams
Test Plan referred to	T:\Projects\RM-878\TestPlan\RS_testplan_RM-878_EMC_FCC_SAR.xlsm
Notes	-
Document name	T:\Projects\RM-878\EMC\FCC22&24&27_RM-878_01.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:

GSM/WCDMA/WLAN/Bluetooth

The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-878	004402471091631	0205	060	1530.0035.8516.9754.12312	30627
Battery	BP-4W	3932132274140101601;0670672	-	-	-	30588
Battery	BP-4W	3932132155140101183;0670671	-	-	-	30616
Charger	AC-50U	4090492185270514505;0675620	NA	NA	NA	30619
Micro USB cable	CA-190CD	NA	NA	NA	NA	30620
Headset	WH-208	NA	NA	NA	NA	30621

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	PASSED
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§22.917(a)	4.5	Band edge compliance	PASSED
§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

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	PASSED
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§22.917(a)	4.5	Band edge compliance	PASSED
§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
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§2.1046(a)	6.4	Conducted RF output power	NP
§24.232(b)	6.4	Radiated RF output power	PASSED
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§24.238(a)	6.5	Band edge compliance	PASSED
§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 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	PASSED
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§24.238(a)	6.5	Band edge compliance	PASSED
§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	PASSED
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§27.53(g)	6.5	Band edge compliance	PASSED
§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	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

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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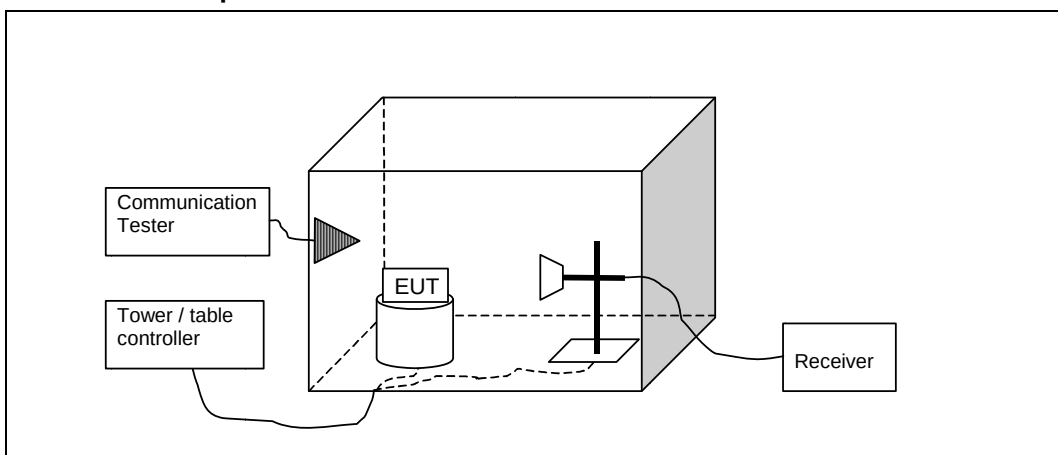
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2. Radiated RF output power

(FCC §22.913(a), §24.232(b), §27.50(d)(2), §27.53(h), RSS-132 4.4, RSS-133 6.4)

EUT with DUT number	RM-878, DUT 30627
Accessories with DUT numbers	BP-4W, DUT 30588
Operation Voltage [V] / [Hz]	N/A
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	17.9 / 43.9%
Date of measurements	24-Aug-2012
Measured by	Feng You

2.1.1 Test Setup



2.2. Test method and limit

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

The measurement is performed in the Anechoic Chamber with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system. The turntable is rotated 360 degrees and this is repeated for both horizontal and vertical receive antenna polarizations.

The EUT is placed on a nonconductive plate at 170 cm height.

The substitution method is used. The measurement results are obtained as described below:

$$P[\text{dBm}] = P_{\text{SUBST TX}} + P_{\text{MEAS}} - P_{\text{SUBST RX}} - L_{\text{SUBST CABLES}} + G_{\text{SUBST TX ANT}}$$

Where $P_{\text{SUBST TX}}$ is signal generator level. P_{MEAS} is measured power level from the EUT. $P_{\text{SUBST RX}}$ is measured power level in substitute measurement. $L_{\text{SUBST CABLE}}$ is the loss of the cable between the signal generator and the substitution antenna and $G_{\text{SUBST TX ANT}}$ is substitution antenna gain.

Limits for radiated RF output power measurements

Frequency range [MHz]	Limit [W]	Limit [dBm]
824 - 849	7 ERP	38.5
1710 - 1755	1 EIRP	30
1850 - 1910	2 EIRP	33

2.3. GSM850 TX Test results

GSM mode

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	30.51	1.125	-2.26	32.77	HORIZONTAL	PASSED
190 / 836.6	30.06	1.014	-2.61	32.67	VERTICAL	PASSED
251 / 848.8	29.92	0.982	-2.42	32.34	VERTICAL	PASSED

2.4. GSM1900 TX Test results

GSM mode

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	30.76	1.191	-14.66	45.42	HORIZONTAL	PASSED
661 / 1880	31.52	1.419	-14.11	45.63	HORIZONTAL	PASSED
810 / 1909.8	31.2	1.318	-14.63	45.83	HORIZONTAL	PASSED

2.5. GSM850-E1 TX Test results

EGPRS mode, 1 TX Slot

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	26.28	0.425	-6.49	32.77	HORIZONTAL	PASSED
190 / 836.6	26.8	0.479	-5.87	32.67	VERTICAL	PASSED
251 / 848.8	26.83	0.482	-5.51	32.34	VERTICAL	PASSED

2.6. GSM1900-E1 TX Test results

EGPRS mode, 1 TX Slot

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	27.96	0.625	-17.46	45.42	HORIZONTAL	PASSED
661 / 1880	28.8	0.759	-16.83	45.63	HORIZONTAL	PASSED
810 / 1909.8	28.95	0.785	-16.88	45.83	HORIZONTAL	PASSED

2.7. WCDMA 1900 (Band II) TX Test results

Peak Detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
9262 / 1852.4	26.92	0.492	-18.49	45.41	HORIZONTAL	PASSED
9400 / 1880	27.85	0.61	-17.78	45.63	HORIZONTAL	PASSED
9538 / 1907.6	27.02	0.504	-18.7	45.72	HORIZONTAL	PASSED

RMS Detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
9262 / 1852.4	23.79	0.239	-21.62	45.41	HORIZONTAL	PASSED

9400 / 1880	24.48	0.281	-21.15	45.63	HORIZONTAL	PASSED
9538 / 1907.6	24.07	0.255	-21.65	45.72	HORIZONTAL	PASSED

2.8. WCDMA 1700 (Band IV) TX Test results

Peak Detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1312 / 1712.4	26.47	0.444	-17.74	44.21	VERTICAL	PASSED
1420 / 1740	27.08	0.511	-17.5	44.58	VERTICAL	PASSED
1513 / 1752.6	27.48	0.56	-17.23	44.71	VERTICAL	PASSED

RMS Detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
1312 / 1712.4	23.29	0.213	-20.92	44.21	VERTICAL	PASSED
1420 / 1740	23.67	0.233	-20.91	44.58	VERTICAL	PASSED
1513 / 1752.6	24.24	0.265	-20.47	44.71	VERTICAL	PASSED

2.9. WCDMA 850 (Band V) TX Test results

Peak Detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
4132 / 826.4	22.9	0.195	-9.89	32.79	HORIZONTAL	PASSED
4183 / 836.6	21.59	0.144	-11.08	32.67	VERTICAL	PASSED
4233 / 846.6	22.21	0.166	-10.22	32.43	VERTICAL	PASSED

Peak Detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
4132 / 826.4	22.1	0.162	-10.69	32.79	VERTICAL	PASSED
4183 / 836.6	21.38	0.137	-11.29	32.67	VERTICAL	PASSED
4233 / 846.6	22.16	0.164	-10.27	32.43	VERTICAL	PASSED

RMS Detector

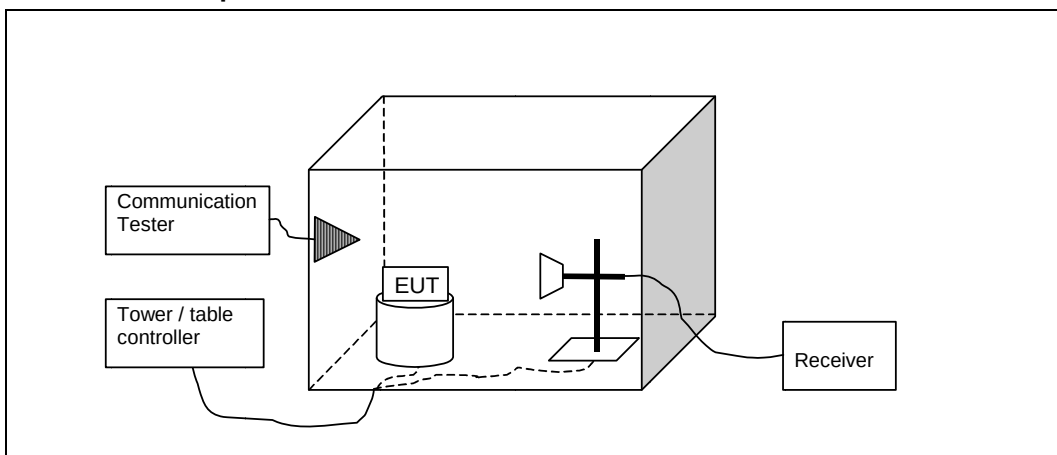
Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
4132 / 826.4	18.85	0.077	-13.94	32.79	VERTICAL	PASSED
4183 / 836.6	18.04	0.064	-14.63	32.67	VERTICAL	PASSED
4233 / 846.6	18.85	0.077	-13.58	32.43	VERTICAL	PASSED

3. Band edge compliance

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

EUT with DUT number	RM-878, DUT 30627
Accessories with DUT numbers	BP-4W, DUT 30588
Operation Voltage [V] / [Hz]	N/P
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	17.9 / 43.9%
Date of measurements	24-Aug-2012
Measured by	Feng You

3.1.1 Test Setup



3.2. Test method and limit

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

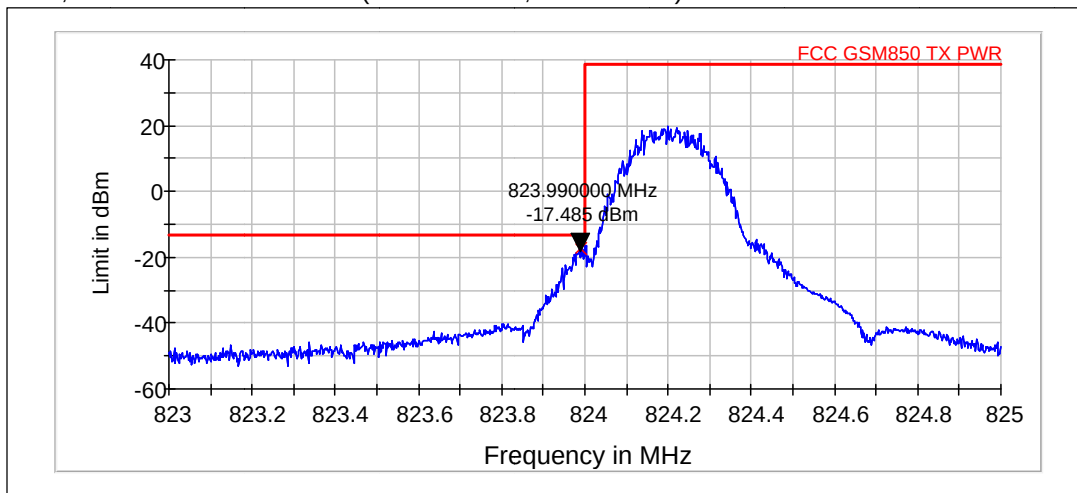
Limits for band edge compliance measurements

Operation band	Frequency range [MHz]	Limit [dBm]
GSM 850 / WCDMA 850	Below 824 and above 849	-13
WCDMA 1700	Below 1710 and above 1755	-13
GSM 1900 / WCDMA 1900	Below 1850 and above 1910	-13

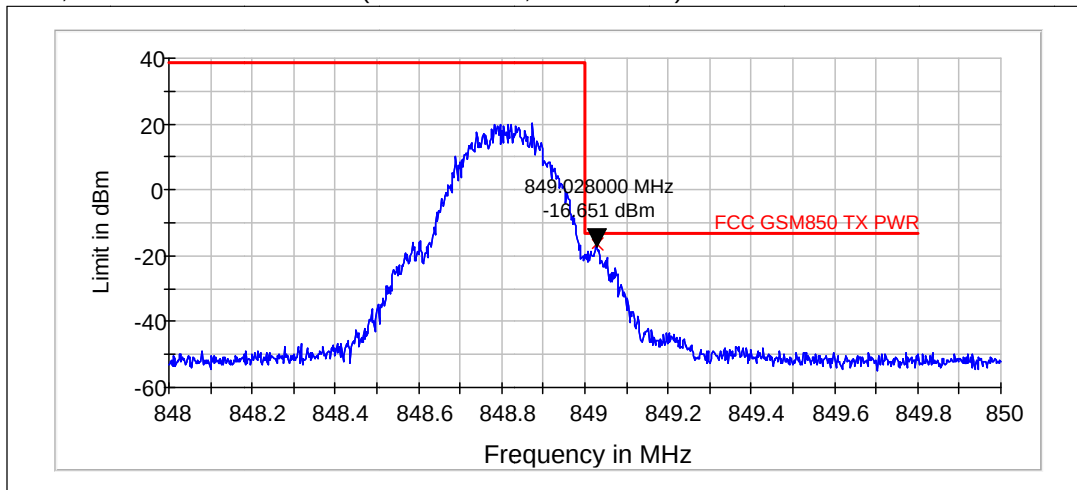
3.3. GSM850 Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
GSM	128 / 824.2	-17.48	PASSED
GSM	251 / 848.8	-16.65	PASSED

GSM, channel 128 / 824.2 MHz (Peak detector, RBW: 3 kHz)



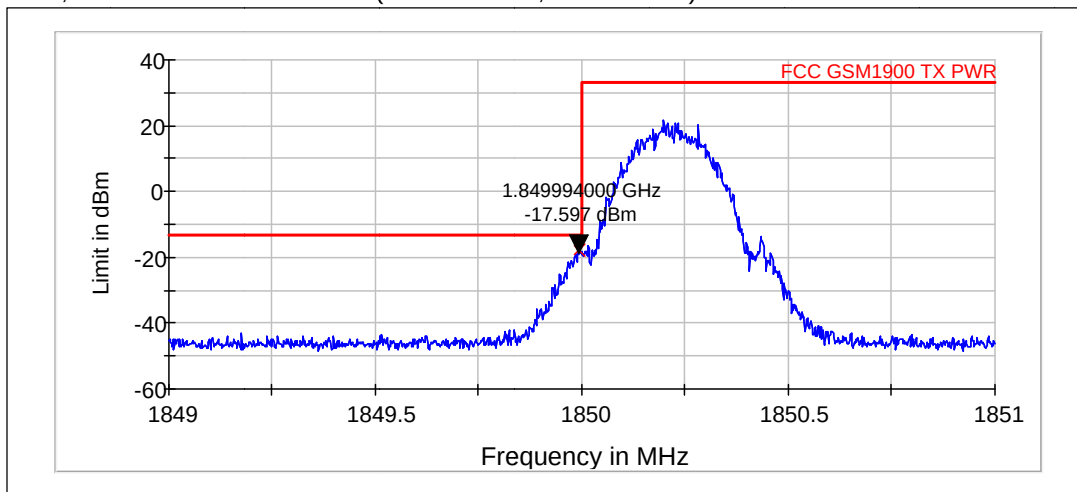
GSM, channel 251 / 848.8 MHz (Peak detector, RBW: 3 kHz)



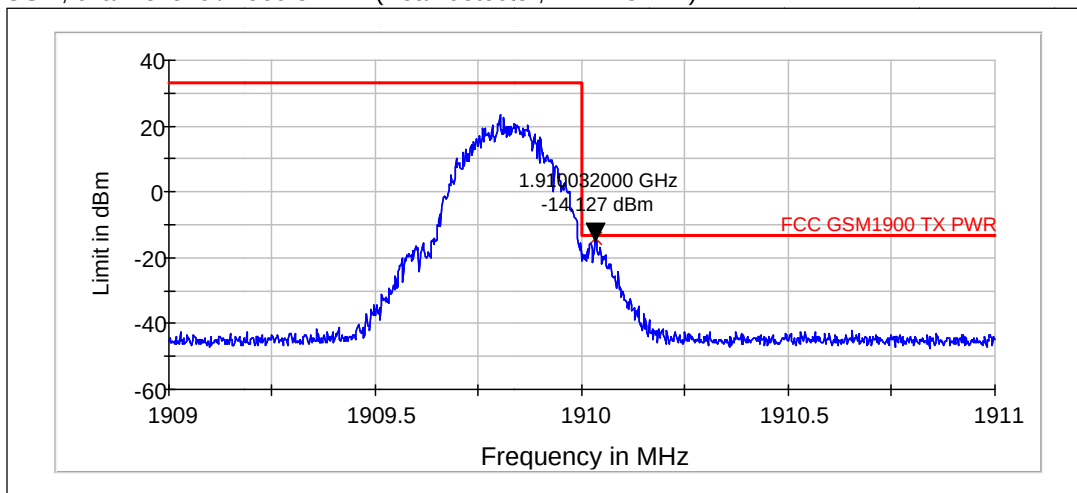
3.4. GSM1900 Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
GSM	512 / 1850.2	-17.6	PASSED
GSM	810 / 1909.8	-14.13	PASSED

GSM, channel 512 / 1850.2 MHz (Peak detector, RBW: 3 kHz)



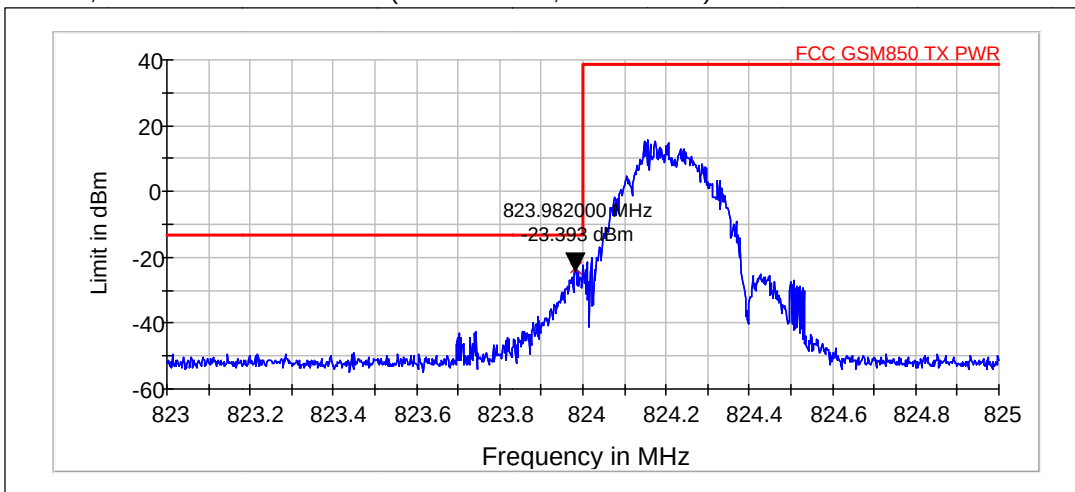
GSM, channel 810 / 1909.8 MHz (Peak detector, RBW: 3 kHz)



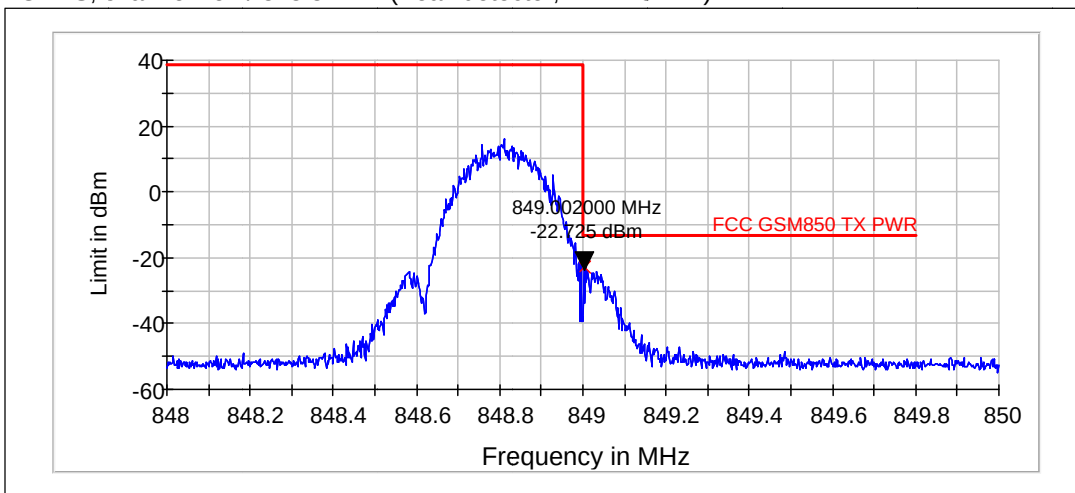
3.5. GSM850-E1 Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
EGPRS	128 / 824.2	-23.39	PASSED
EGPRS	251 / 848.8	-22.72	PASSED

EGPRS, channel 128 / 824.2 MHz (Peak detector, RBW: 3 kHz)



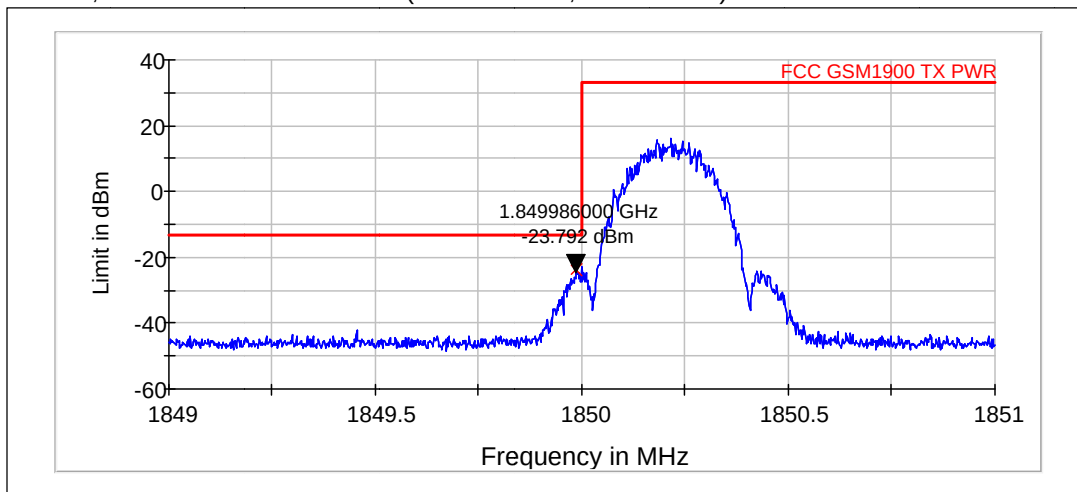
EGPRS, channel 251 / 848.8 MHz (Peak detector, RBW: 3 kHz)



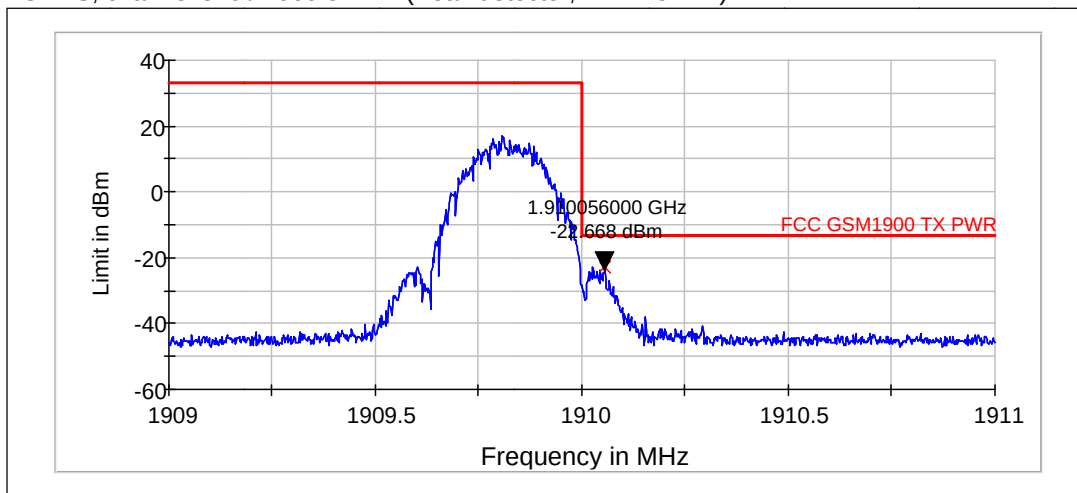
3.6. GSM1900-E1 Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
EGPRS	512 / 1850.2	-23.79	PASSED
EGPRS	810 / 1909.8	-22.67	PASSED

EGPRS, channel 512 / 1850.2 MHz (Peak detector, RBW: 3 kHz)



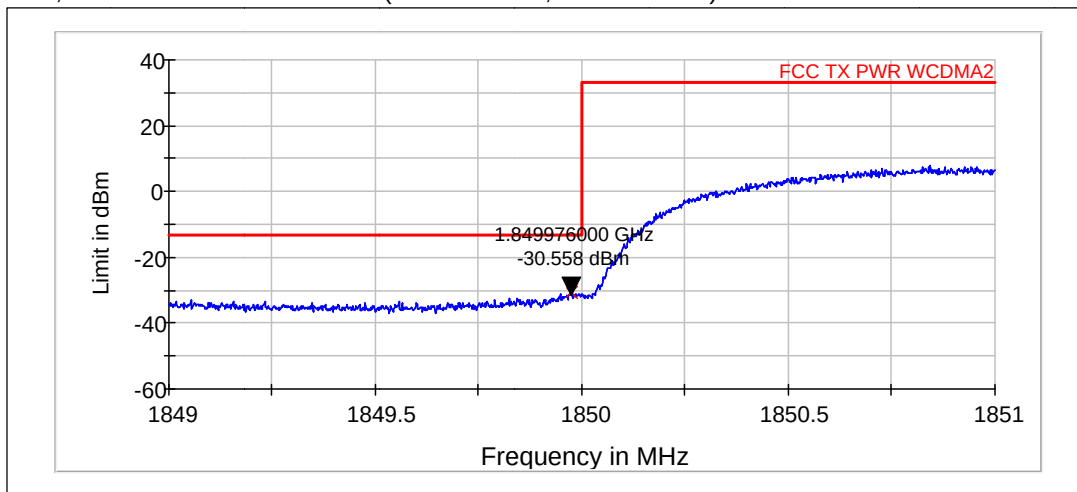
EGPRS, channel 810 / 1909.8 MHz (Peak detector, RBW: 3 kHz)



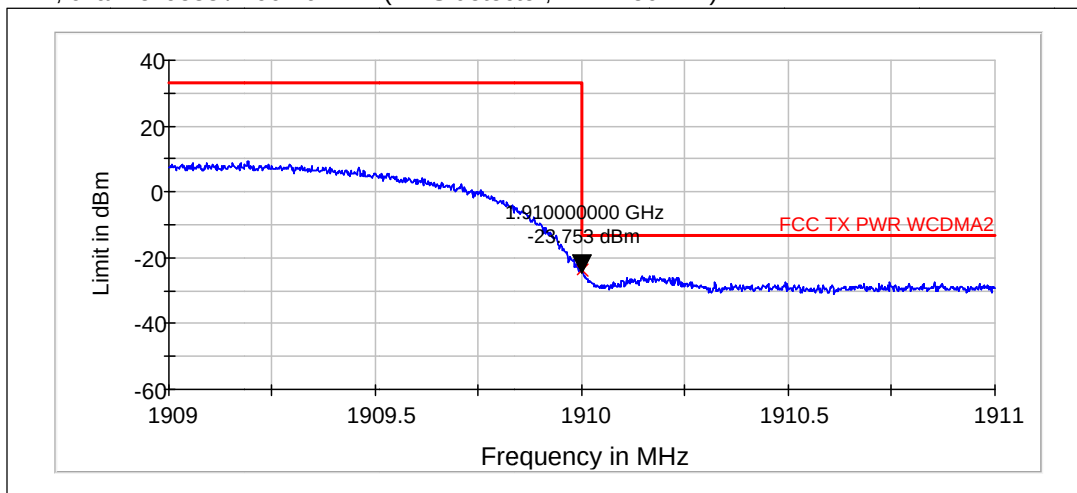
3.7. WCDMA 1900 (Band II) Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
FDD	9262 / 1852.4	-30.56	PASSED
FDD	9538 / 1907.6	-23.75	PASSED

FDD, channel 9262 / 1852.4 MHz (RMS detector, RBW: 50 kHz)



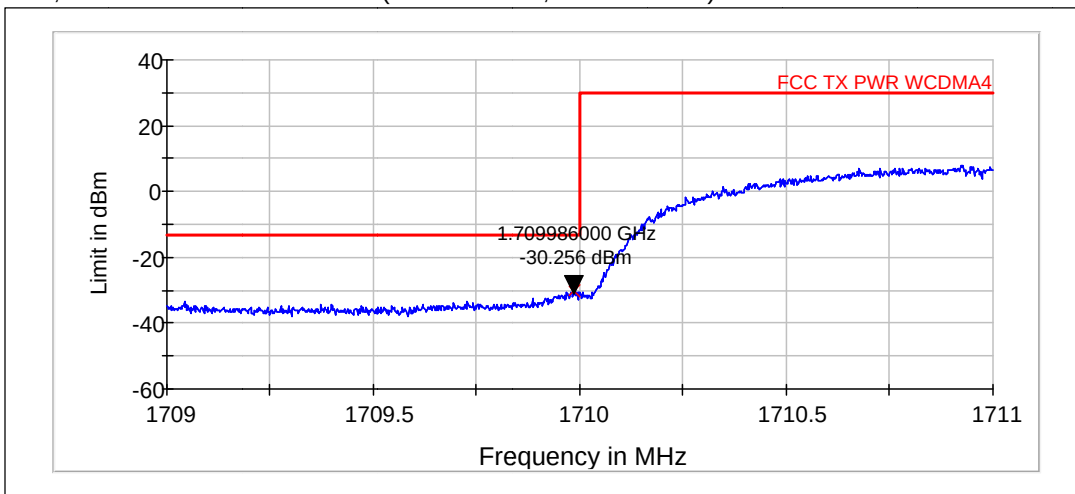
FDD, channel 9538 / 1907.6 MHz (RMS detector, RBW: 50 kHz)



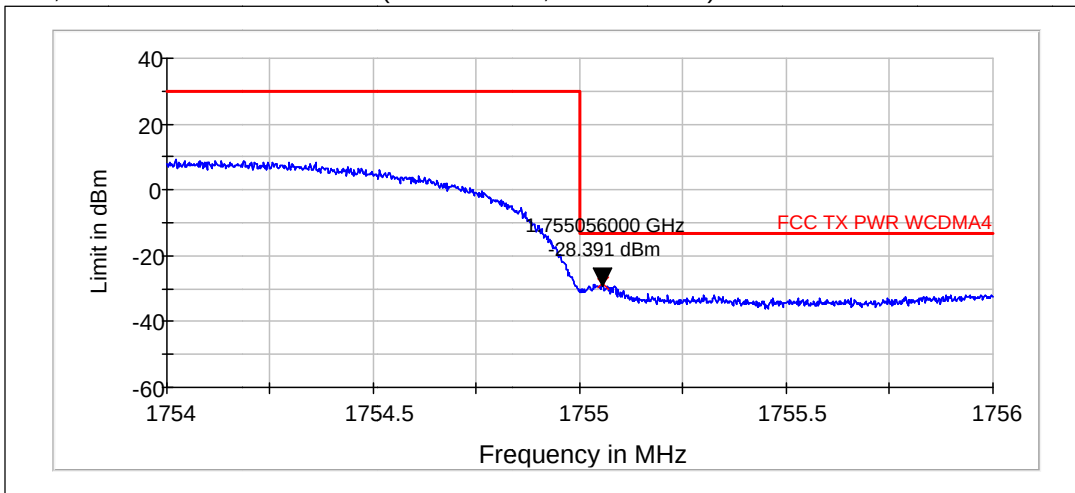
3.8. WCDMA 1700 (Band IV) Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
FDD	1312 / 1712.4	-30.26	PASSED
FDD	1513 / 1752.6	-28.39	PASSED

FDD, channel 1312 / 1712.4 MHz (RMS detector, RBW: 50 kHz)



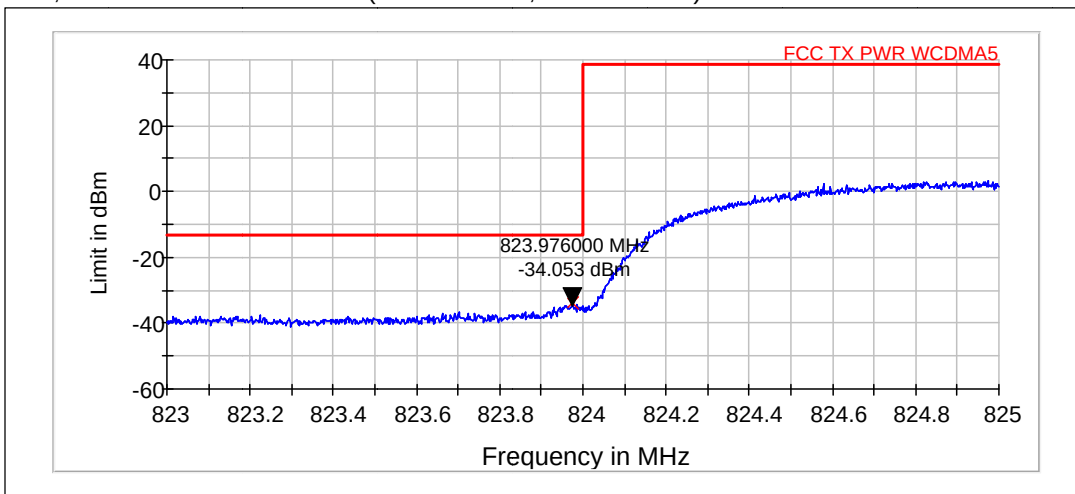
FDD, channel 1513 / 1752.6 MHz (RMS detector, RBW: 50 kHz)



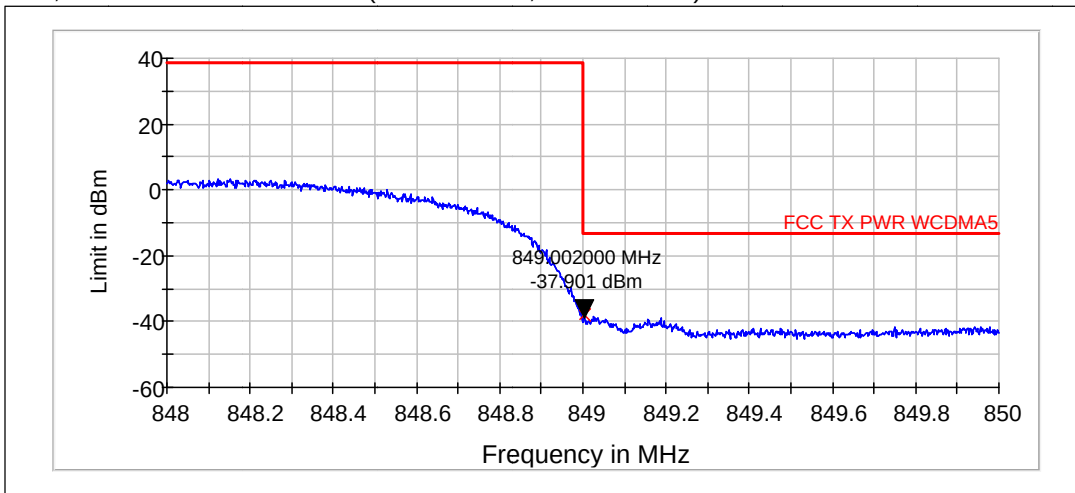
3.9. WCDMA 850 (Band V) Test results

Operation mode (TX on)	Channel / f_c [MHz]	Level [dBm]	Result
FDD	4132 / 826.4	-34.05	PASSED
FDD	4233 / 846.6	-37.9	PASSED

FDD, channel 4132 / 826.4 MHz (RMS detector, RBW: 50 kHz)



FDD, channel 4233 / 846.6 MHz (RMS detector, RBW: 50 kHz)

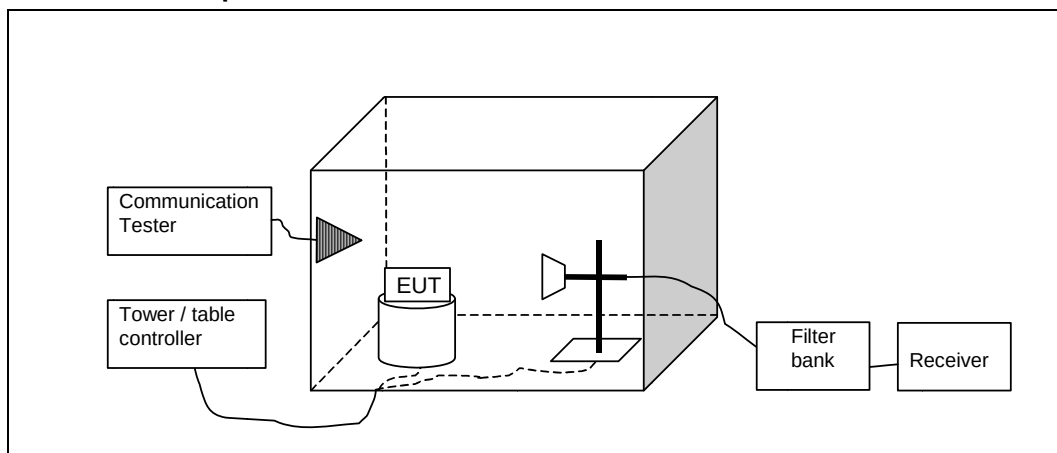


4. Spurious radiated emissions

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

EUT with DUT number	RM-878, DUT 30627
Accessories with DUT numbers	BP-4W, DUT 30616 ; AC-50U, DUT 30619 ; CA-190CD, DUT 30620 ; WH-208, DUT 30621
Operation Voltage [V] / [Hz]	115V / 60Hz
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	17.9 / 43.9%
Date of measurements	24-Aug-2012
Measured by	Feng You

4.1.1 Test Setup



4.2. 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.

The measurement results are obtained as described below:

$$P [dBm] = P_{SUBST\ TX} + G_{SUBST\ TX\ ANT} - L_{SUBST\ CABLE}$$

Where $P_{SUBST\ TX}$ is signal generator level, which produces the same receiver reading P_{MEAS} in dBm as EUT. $G_{SUBST\ TX\ ANT}$ is substitution antenna gain and $L_{SUBST\ CABLE}$ is the loss of the cable between the signal generator and the substitution antenna.

Limits for spurious radiated emissions measurements

Operation band	Frequency range [MHz]	Limit [dBm]
GSM 850 / WCDMA 850	30 - 8500	-13
GSM 1900 / WCDMA 1900 WCDMA 1700	30 - 18000	-13

4.3. GSM850 TX Test results

GSM mode, Channel 190 / 836.6 MHz

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
823.935	-12.54	55.71857	-81.31	68.77	HORIZONTAL	*PASSED
848.665	-19.87	10.29912	-81.19	61.32	HORIZONTAL	PASSED
848.948	-20.04	9.90148	-81.1	61.06	HORIZONTAL	PASSED
2509.805	-26.05	2.48542	-46.06	20.01	VERTICAL	PASSED
2509.87	-25.79	2.63572	-45.8	20.01	VERTICAL	PASSED

*823.935 MHz frequency is coming Transmitter fundamental and thus ignored.

4.4. GSM1900 TX Test results

GSM mode, Channel 661 / 1880 MHz

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1850.135	0.72	1180.59245	-71.14	71.86	HORIZONTAL	*PASSED
1910.06	7.88	6140.44718	-71.02	78.9	VERTICAL	*PASSED
9423.636	-40.7	0.08504	-69.39	28.69	HORIZONTAL	PASSED
9902.597	-39.58	0.11015	-69.74	30.16	HORIZONTAL	PASSED
9998.738	-38.49	0.14148	-68.86	30.37	HORIZONTAL	PASSED
10022.987	-39.49	0.11243	-69.62	30.13	HORIZONTAL	PASSED

*1850.135 and 1910.06 MHz frequency is coming Transmitter fundamental and thus ignored.

4.5. GSM850-E1 TX test results

EGPRS mode

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
824	-12.4	57.61028	-81.73	69.33	HORIZONTAL	*PASSED
848.797	-20.49	8.92483	-81.69	61.2	HORIZONTAL	PASSED
849.379	-20.58	8.74984	-81.24	60.66	HORIZONTAL	PASSED
2509.74	-32.19	0.60339	-52.2	20.01	VERTICAL	PASSED
2509.805	-32.13	0.61263	-52.14	20.01	VERTICAL	PASSED

*824 MHz frequency is coming Transmitter fundamental and thus ignored.

4.6. WCDMA 1900 (Band II) test results

Channel 9400 / 1880.0 MHz

FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
9428.442	-40.53	0.08861	-68.97	28.44	VERTICAL	PASSED
9787.013	-39.33	0.11673	-69.12	29.79	HORIZONTAL	PASSED
9800	-38.59	0.13845	-68.89	30.3	HORIZONTAL	PASSED

9905.455	-38.85	0.13026	-68.91	30.06	HORIZONTAL	PASSED
9975.584	-37.94	0.16088	-67.97	30.03	HORIZONTAL	PASSED
10007.857	-38.65	0.13633	-68.81	30.16	HORIZONTAL	PASSED

4.7. WCDMA 1700 (Band IV) test results

Channel 1412 / 1732.4 MHz
FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1714.935	-40.38	0.09166	-57.03	16.65	VERTICAL	PASSED
2133.636	-34.99	0.31681	-53.83	18.84	VERTICAL	PASSED
9724.545	-39.57	0.11033	-68.81	29.24	HORIZONTAL	PASSED
9799.87	-39.12	0.12255	-69.42	30.3	HORIZONTAL	PASSED
9911.429	-38.28	0.14866	-68.13	29.85	HORIZONTAL	PASSED
10006.688	-39.46	0.11316	-69.5	30.04	VERTICAL	PASSED

4.8. WCDMA 850 (Band V) test results

Channel 4175 / 835.0 MHz
FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1667.662	-34.6	0.34658	-47.49	12.89	VERTICAL	PASSED
1667.67	-34.21	0.37914	-47.1	12.89	VERTICAL	PASSED
1668.506	-34.62	0.34491	-47.54	12.92	VERTICAL	PASSED
2509.805	-50.31	0.00931	-70.32	20.01	VERTICAL	PASSED
2522.532	-50.14	0.00968	-69.97	19.83	VERTICAL	PASSED
3343.636	-48.04	0.0157	-68.71	20.67	VERTICAL	PASSED

4.9. GSM1900-E1 TX test results

EGPRS mode
Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1850.135	-3.46	451.23211	-75.32	71.86	HORIZONTAL	*PASSED
1909.93	8.64	7302.97813	-70.36	79	VERTICAL	*PASSED
9447.792	-40.21	0.09521	-68.97	28.76	HORIZONTAL	PASSED
9904.026	-38.26	0.14942	-68.37	30.11	HORIZONTAL	PASSED
9983.377	-39.42	0.11439	-69.34	29.92	HORIZONTAL	PASSED
10000.974	-38.31	0.14754	-68.72	30.41	HORIZONTAL	PASSED

*1850.135 and 1909.93 MHz frequency is coming Transmitter fundamental and thus ignored.

5. Test Equipment

5.1. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
N/A	Band Reject Filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
7984	Data Logger	Testo175H1	Testo	-
3397	Signal Generator	83630B	Agilent	-
7591	Antenna	HL562	R&S	-
N/A	RF immunity / Emission Software	EMC32	R&S	-
7459	Open switch and control unit	TS-RSP	R&S	-
5729	Open switch and control unit	TS-RSP	R&S	-
N/A	Notch Filter	GSM1900	TTE	24
N/A	Notch Filter	GSM850	Trilithic	22
7572	Antenna	3117	EMCO	-
5730	Preamplifier/Switch Box	TS-ANA	R&S	-
N/A	Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	-
N/A	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	24
N/A	Band Reject Filter	WRC824/849-0,2-6SS	Wainwright	22
4406	Communication Tester	CMU200	R&S	-
7646	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	ETS-Lindgren	-
7451	EMI Receiver	ESU-26	R&S	-
3406	Mast/Turntable Controller	SC99V	Sunol	-