

FCC Part 22/24/27 Compliance Test Report

Test Report no.:	FCC_Cellular_RM-1128_10.docx	Date of Report:	17-Sep-2015
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FCC listing no.:	975940		
IC recognition no.:	661AH-1		
Tested devices/ accessories:	Phone RM-1128 / Cover CC-3097 / Battery Samsung BL-T5A		
FCC ID:	PYARM-1128	IC:	661X-RM1128
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 4, November 2014), RSS-132 (Issue 3, January 2013), RSS-133 (Issue 6, January 2013), RSS-139 (Issue 2, February 2009), RSS-199 (Issue 2, October 2014). 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 Microsoft.		
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:			

Hannu Söderholm, Engineer, EMC

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

Date of receipt	02-Jun-2015
Testing completed	26-Aug-2015
The customer's contact person	Tero Huhtala
Test Plan referred to	T:\Projects\RM-1128\TestPlan\RS_testplan_RM-1128.xlsm
Notes	-
Document name	FCC_Cellular_RM-1128_10.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.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-1128	004402742351970	1510	-	01065.00000.15265.37000	500100
Cover	CC-3097	-	-	-	-	500127
Battery	Samsung BL-T5A	5241525213V10200063;0670778	PWB Ver.1.1	-	-	500101

1.2. Summary of Test Results

GSM 850:

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
N/A	5.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

GSM 1900:

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
N/A	6.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

WCDMA2:

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
N/A	6.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

WCDMA4:

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
N/A	6.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

WCDMA5:

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
N/A	5.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

LTE2:

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
N/A	6.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

LTE4:

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)(4)	6.4	Radiated RF output power	PASSED
N/A	6.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§27.53(h)	6.5	Band edge compliance	NP
§27.53(h), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§27.53(h), §2.1053	6.5	Spurious radiated emissions	NP
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

LTE5:

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
N/A	5.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§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	NP
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

LTE7:

Section in CFR 47	Section in RSS-GEN or RSS-199	Name of the test	Result
§2.1046(a)	4.4	Conducted RF output power	NP
§27.50(h)(2)	4.4	Radiated RF output power	PASSED
N/A	N/A	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§27.53(l)	4.5(b)	Band edge compliance	NP
§2.1051	4.5(b)	Spurious emissions at antenna terminals	NP
§27.53(l), §2.1053	4.5(b)	Spurious radiated emissions	NP
§27.54	4.3	Frequency stability, temperature variation	NP
§27.54	4.3	Frequency stability, voltage variation	NP

LTE12:

Section in CFR 47	Section in RSS-GEN or RSS-130	Name of the test	Result
§2.1046(a)	4.4	Conducted RF output power	NP
§27.50(c)10	4.4	Radiated RF output power	PASSED
N/A	N/A	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§27.53(f)	4.6	Band edge compliance	NP
§27.53(f)	4.6	Spurious emissions at antenna terminals	NP
§27.53(f)	4.6	Spurious radiated emissions	NP
§27.54	4.3	Frequency stability, temperature variation	NP
§27.54	4.3	Frequency stability, voltage variation	NP

LTE17:

Section in CFR 47	Section in RSS-GEN	Name of the test	Result
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	or RSS-130		
§2.1046(a)	4.4	Conducted RF output power	NP
§27.50(c)(10)	4.4	Radiated RF output power	PASSED
N/A	N/A	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§27.53(g)	4.6	Band edge compliance	NP
§27.53(g), §2.1051	4.6	Spurious emissions at antenna terminals	NP
§27.53(g), §2.1051	4.6	Spurious radiated emissions	NP
§2.1055(a)	4.3 (a)	Frequency stability, temperature variation	NP
§2.1055(d)	4.3 (a)	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 Microsoft Laboratory.

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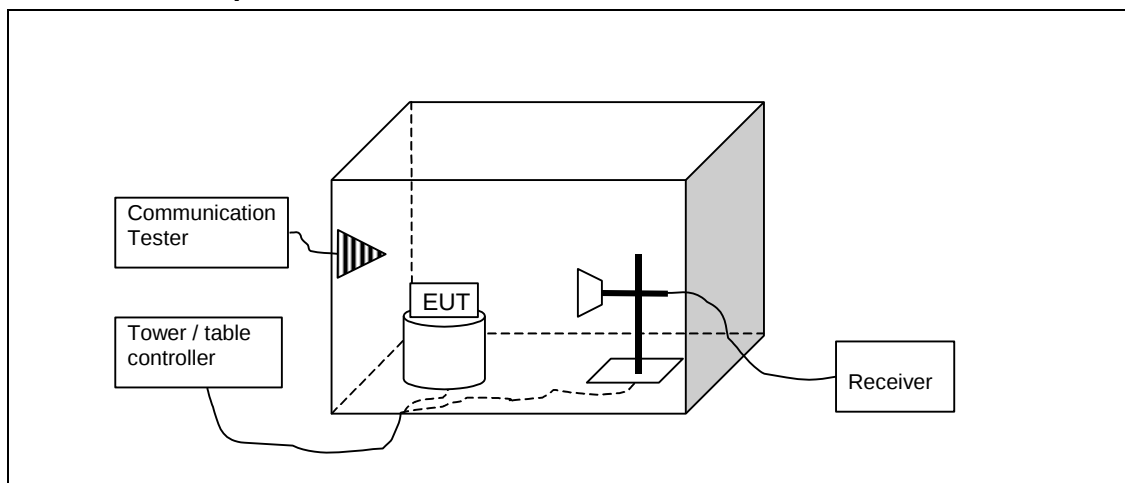
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2. Radiated RF output power

(FCC §22.913(a), §27.50(h)(2), §27.50(d)(4), §27.50(d)(2), §24.232(b), RSS-132 4.4, RSS-133 6.4, RSS-139 6.4, RSS-199 4.4)

EUT with DUT number	RM-1128, DUT 500100
Accessories with DUT numbers	CC-3097, DUT 500127 ; Samsung BL-T5A, DUT 500101
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	Test was done in lab1.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23/52/100.5
Date of measurements	10-Jul-2015
Measured by	Gao Sherina

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
1850 - 1910	2 EIRP	33
1710 - 1755	1 EIRP	30
704 - 716	3 ERP	34.8
2502.5 - 2567.5	2 EIRP	33
699 - 712	2 ERP	33

2.3. GSM 850 test results

Antenna1;RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
128 / 824.2	28.91	0.778	-4.11	+10	-30.13	-3.2	3.91	VERTICAL	PASSED
190 / 836.6	29.07	0.807	-5.16	+10	-31.23	-3.1	3.9	HORIZONTAL	PASSED
251 / 848.8	29.1	0.813	-4.19	+10	-30.59	-3.4	3.9	HORIZONTAL	PASSED

Antenna2;RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
128 / 824.2	29.17	0.826	-5.15	+10	-31.43	-3.2	3.91	HORIZONTAL	PASSED
190 / 836.6	29.51	0.893	-4.72	+10	-31.23	-3.1	3.9	HORIZONTAL	PASSED
251 / 848.8	29.33	0.857	-3.96	+10	-30.59	-3.4	3.9	HORIZONTAL	PASSED

2.4. GSM 850 E-GPRS (MSC9) test results

Antenna1; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
128 / 824.2	26.51	0.448	-7.81	+10	-31.43	-3.2	3.91	HORIZONTAL	PASSED
190 / 836.6	23.98	0.250	-10.25	+10	-31.23	-3.1	3.9	HORIZONTAL	PASSED
251 / 848.8	27.41	0.551	-4.92	+10	-29.63	-3.4	3.9	VERTICAL	PASSED

Antenna2; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
128 / 824.2	27.19	0.524	-7.13	+10	-31.43	-3.2	3.91	HORIZONTAL	PASSED
190 / 836.6	25.68	0.370	-8.55	+10	-31.23	-3.1	3.9	HORIZONTAL	PASSED
251 / 848.8	24.82	0.303	-8.47	+10	-30.59	-3.4	3.9	HORIZONTAL	PASSED

2.5. GSM 1900 test results

Antenna1;RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
512 / 1850.2	30.18	1.042	-15.04	+10	-30.86	10.26	5.9	VERTICAL	PASSED
661 / 1880	29.93	0.984	-15.34	+10	-31.05	10.22	6	VERTICAL	PASSED
810 / 1909.8	30.17	1.040	-15.14	+10	-31.31	10.2	6.2	VERTICAL	PASSED

Antenna2;RMS detector

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Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
512 / 1850.2	30.42	1.102	-14.8	+10	-30.86	10.26	5.9	HORIZONTAL	PASSED
661 / 1880	30.31	1.074	-14.96	+10	-31.05	10.22	6	VERTICAL	PASSED
810 / 1909.8	30.89	1.227	-14.65	+10	-31.54	10.2	6.2	HORIZONTAL	PASSED

2.6. GSM 1900 E-GPRS (MSC9) test results

Antenna1; RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
512 / 1850.2	25.2	0.331	-20.02	+10	-30.86	10.26	5.9	VERTICAL	PASSED
661 / 1880	24.5	0.282	-20.77	+10	-31.05	10.22	6	VERTICAL	PASSED
810 / 1909.8	24.48	0.281	-20.83	+10	-31.31	10.2	6.2	VERTICAL	PASSED

Antenna2; RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
512 / 1850.2	25.62	0.365	-19.6	+10	-30.86	10.26	5.9	HORIZONTAL	PASSED
661 / 1880	25.23	0.333	-20.04	+10	-31.05	10.22	6	VERTICAL	PASSED
810 / 1909.8	26.03	0.401	-19.51	+10	-31.54	10.2	6.2	HORIZONTAL	PASSED

2.7. WCDMA2 test results

Antenna1; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
9262 / 1852.4	22.86	0.193	-22.18	+10	-29.68	10.25	4.89	VERTICAL	PASSED
9400 / 1880	22.23	0.167	-22.69	+10	-29.9	10.22	5.2	VERTICAL	PASSED
9538 / 1907.6	22.55	0.180	-22.86	+10	-30.31	10.2	5.1	VERTICAL	PASSED

Antenna2; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
9262 / 1852.4	23.28	0.213	-21.76	+10	-29.68	10.25	4.89	VERTICAL	PASSED
9400 / 1880	23.04	0.201	-21.88	+10	-29.9	10.22	5.2	VERTICAL	PASSED
9538 / 1907.6	23.98	0.250	-21.47	+10	-30.35	10.2	5.1	HORIZONTAL	PASSED

2.8. WCDMA4 test results

Antenna1; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST} CABLE [dB]	Polarisation	Result
1312 / 1712.4	23.83	0.242	-19.94	+10	-28.58	10	4.81	VERTICAL	PASSED
1412 / 1732.4	24.84	0.305	-19.58	+10	-28.9	10.4	4.88	VERTICAL	PASSED
1513 / 1752.6	23.52	0.225	-20.81	+10	-29.05	10.1	4.82	VERTICAL	PASSED

Antenna2; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST} CABLE [dB]	Polarisation	Result
1312 / 1712.4	24.11	0.258	-20.7	+10	-28.86	10	4.81	HORIZONTAL	PASSED
1412 / 1732.4	24.89	0.308	-20.49	+10	-28.95	10.4	4.88	HORIZONTAL	PASSED
1513 / 1752.6	23.53	0.225	-19.95	+10	-29.06	10.1	4.82	HORIZONTAL	PASSED

2.9. WCDMA5 test results

Antenna1; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST} CABLE [dB]	Polarisation	Result
4132 / 826.4	18.95	0.079	-14.38	+10	-29.76	-3.2	3.23	VERTICAL	PASSED
4175 / 835	18.38	0.069	-14.64	+10	-29.39	-3.1	3.27	VERTICAL	PASSED
4233 / 846.6	16.51	0.045	-16.14	+10	-29.37	-3.3	3.42	VERTICAL	PASSED

Antenna2; RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST} CABLE [dB]	Polarisation	Result
4132 / 826.4	20.17	0.104	-13.16	+10	-29.76	-3.2	3.23	VERTICAL	PASSED
4175 / 835	19.76	0.095	-13.26	+10	-29.39	-3.1	3.27	VERTICAL	PASSED
4233 / 846.6	18.48	0.070	-14.17	+10	-29.37	-3.3	3.42	VERTICAL	PASSED

2.10. LTE2 test results

Antenna1;
FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18650 / 1855	24.12	0.258	-20.94	+10	-30.68	10.24	5.86	VERTICAL	PASSED
18900 / 1880	24.92	0.310	-20.62	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19150 / 1905	24.53	0.284	-20.8	+10	-31.23	10.2	6.1	VERTICAL	PASSED

FDD, CBW 3MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18615 / 1851.5	24.67	0.293	-20.71	+10	-30.93	10.26	5.81	VERTICAL	PASSED
18900 / 1880	24.57	0.286	-20.97	+10	-31.29	10.22	5.97	VERTICAL	PASSED

19185 / 1908.5	24.12	0.258	-21.42	+10	-31.43	10.2	6.09	VERTICAL	PASSED
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FDD, CBW 20MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18700 / 1860	23.58	0.228	-21.55	+10	-30.73	10.24	5.86	VERTICAL	PASSED
18900 / 1880	25.03	0.318	-20.51	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19100 / 1900	23.96	0.249	-21.38	+10	-31.23	10.2	6.1	VERTICAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18700 / 1860	23.8	0.240	-21.33	+10	-30.73	10.24	5.86	VERTICAL	PASSED
18900 / 1880	25.05	0.320	-20.49	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19100 / 1900	24.14	0.259	-21.2	+10	-31.23	10.2	6.1	VERTICAL	PASSED

Antenna2

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18650 / 1855	24.19	0.262	-20.87	+10	-30.68	10.24	5.86	VERTICAL	PASSED
18900 / 1880	25.06	0.321	-20.48	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19150 / 1905	24.37	0.274	-20.96	+10	-31.23	10.2	6.1	VERTICAL	PASSED

FDD, CBW 3MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18615 / 1851.5	24.23	0.265	-21.15	+10	-30.93	10.26	5.81	VERTICAL	PASSED
18900 / 1880	24.57	0.286	-20.97	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19185 / 1908.5	23.94	0.248	-21.6	+10	-31.43	10.2	6.09	VERTICAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18700 / 1860	24.04	0.254	-21.54	+10	-31.18	10.24	5.84	HORIZONTAL	PASSED
18900 / 1880	24.99	0.316	-20.55	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19100 / 1900	23.94	0.248	-21.4	+10	-31.23	10.2	6.09	VERTICAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
18700 / 1860	24.19	0.262	-21.39	+10	-30.73	10.24	5.84	VERTICAL	PASSED
18900 / 1880	24.82	0.303	-20.72	+10	-31.29	10.22	5.97	VERTICAL	PASSED
19100 / 1900	23.65	0.232	-21.69	+10	-31.23	10.2	6.09	VERTICAL	PASSED

2.11. LTE4 test results

Antenna1;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20000 / 1715	23.9	0.245	-20.29	+10	-29.76	10.02	5.59	VERTICAL	PASSED
20175 / 1732.5	22.88	0.194	-21.42	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20350 / 1750	22.59	0.182	-22	+10	-30.15	10.09	5.65	VERTICAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20000 / 1715	24.19	0.262	-20	+10	-29.76	10.02	5.59	VERTICAL	PASSED
20175 / 1732.5	22.52	0.179	-21.78	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20350 / 1750	22.78	0.190	-21.81	+10	-30.15	10.09	5.65	VERTICAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20050 / 1720	23.49	0.223	-20.87	+10	-29.91	10.02	5.58	VERTICAL	PASSED
20175 / 1732.5	23.03	0.201	-21.27	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20300 / 1745	22.78	0.190	-21.61	+10	-29.96	10.07	5.64	VERTICAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20050 / 1720	23.82	0.241	-20.54	+10	-29.91	10.02	5.58	VERTICAL	PASSED
20175 / 1732.5	22.82	0.191	-21.48	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20300 / 1745	22.72	0.187	-21.67	+10	-29.96	10.07	5.64	VERTICAL	PASSED

Antenna2

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20000 / 1715	24.35	0.272	-19.84	+10	-29.76	10.02	5.59	VERTICAL	PASSED
20175 / 1732.5	23.06	0.202	-21.24	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20350 / 1750	23	0.200	-21.59	+10	-30.15	10.09	5.65	VERTICAL	PASSED

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20000 / 1715	24.43	0.277	-19.76	+10	-29.76	10.02	5.59	VERTICAL	PASSED
20175 / 1732.5	23.36	0.217	-20.94	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20350 / 1750	22.87	0.194	-21.72	+10	-30.15	10.09	5.65	VERTICAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
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20050 / 1720	23.76	0.238	-20.6	+10	-29.91	10.02	5.58	VERTICAL	PASSED
20175 / 1732.5	23.19	0.208	-21.11	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20300 / 1745	22.75	0.188	-21.64	+10	-29.96	10.07	5.64	VERTICAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20050 / 1720	23.78	0.239	-20.58	+10	-29.91	10.02	5.58	VERTICAL	PASSED
20175 / 1732.5	23.24	0.211	-21.06	+10	-29.91	10.03	5.64	VERTICAL	PASSED
20300 / 1745	22.77	0.189	-21.62	+10	-29.96	10.07	5.64	VERTICAL	PASSED

2.12. LTE5 test results

Antenna1;

FDD, CBW 3MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
20415 / 825.5	18.93	0.078	-13.48	+10	-29.24	-3.1	3.73	VERTICAL	PASSED
20525 / 836.5	20.8	0.120	-13.03	+10	-30.72	-3.1	3.79	HORIZONTAL	PASSED
20635 / 847.5	20.11	0.103	-13.01	+10	-30.22	-3.3	3.8	HORIZONTAL	PASSED

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
20450 / 829	18.89	0.077	-13.04	+10	-28.86	-3.2	3.73	VERTICAL	PASSED
20525 / 836.5	20.51	0.112	-13.32	+10	-30.72	-3.1	3.79	HORIZONTAL	PASSED
20600 / 844	20.8	0.120	-12.75	+10	-30.66	-3.3	3.81	HORIZONTAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
20450 / 829	19.18	0.083	-12.75	+10	-28.86	-3.2	3.73	VERTICAL	PASSED
20525 / 836.5	20.34	0.108	-13.49	+10	-30.72	-3.1	3.79	HORIZONTAL	PASSED
20600 / 844	19.99	0.100	-13.56	+10	-30.66	-3.3	3.81	HORIZONTAL	PASSED

Antenna2;

FDD, CBW 3MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
20415 / 825.5	20.04	0.101	-12.37	+10	-29.24	-3.1	3.73	VERTICAL	PASSED
20525 / 836.5	19.53	0.090	-14.3	+10	-30.72	-3.1	3.79	HORIZONTAL	PASSED
20635 / 847.5	18.33	0.068	-14.79	+10	-30.22	-3.3	3.8	HORIZONTAL	PASSED

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
20450 / 829	19.72	0.094	-12.21	+10	-28.86	-3.2	3.73	VERTICAL	PASSED

20525 / 836.5	19.82	0.096	-14.01	+10	-30.72	-3.1	3.79	HORIZONTAL	PASSED
20600 / 844	19.45	0.088	-14.1	+10	-30.66	-3.3	3.81	HORIZONTAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
20450 / 829	19.7	0.093	-12.23	+10	-28.86	-3.2	3.73	VERTICAL	PASSED
20525 / 836.5	19.85	0.097	-12.64	+10	-29.38	-3.1	3.79	HORIZONTAL	PASSED
20600 / 844	19.32	0.086	-14.23	+10	-30.66	-3.3	3.81	HORIZONTAL	PASSED

2.13. LTE7 test results

Antenna1;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20800 / 2505	21.81	0.152	-28.08	+10	-36.18	10.82	7.11	HORIZONTAL	PASSED
21100 / 2535	22.01	0.159	-28.49	+10	-36.56	11.02	7.08	HORIZONTAL	PASSED
21400 / 2565	22.65	0.184	-28.07	+10	-36.78	11.04	7.1	HORIZONTAL	PASSED

FDD, CBW 10MHz, QPSK, 1RB mid, Peak detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20800 / 2505	25.36	0.344	-24.53	+10	-36.18	10.82	7.11	HORIZONTAL	PASSED
21100 / 2535	25.64	0.366	-24.86	+10	-36.56	11.02	7.08	HORIZONTAL	PASSED
21400 / 2565	26.12	0.409	-24.6	+10	-36.78	11.04	7.1	HORIZONTAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	22.13	0.163	-28.02	+10	-36.4	10.83	7.08	HORIZONTAL	PASSED
21100 / 2535	22.01	0.159	-28.49	+10	-36.56	11.02	7.08	HORIZONTAL	PASSED
21350 / 2560	22.41	0.174	-28.1	+10	-36.59	11.02	7.1	HORIZONTAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, Peak detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	25.81	0.381	-24.34	+10	-36.4	10.83	7.08	HORIZONTAL	PASSED
21100 / 2535	25.52	0.356	-24.98	+10	-36.56	11.02	7.08	HORIZONTAL	PASSED
21350 / 2560	26.04	0.402	-24.47	+10	-36.59	11.02	7.1	HORIZONTAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX} ANT [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	22.05	0.160	-28.1	+10	-36.4	10.83	7.08	HORIZONTAL	PASSED
21100 / 2535	21.94	0.156	-28.56	+10	-36.56	11.02	7.08	HORIZONTAL	PASSED
21350 / 2560	22.65	0.184	-27.86	+10	-36.59	11.02	7.1	HORIZONTAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, Peak detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	25.81	0.381	-24.34	+10	-36.4	10.83	7.08	HORIZONTAL	PASSED
21100 / 2535	25.51	0.356	-24.99	+10	-36.56	11.02	7.08	HORIZONTAL	PASSED
21350 / 2560	25.91	0.390	-24.6	+10	-36.59	11.02	7.1	HORIZONTAL	PASSED

Antenna2;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20800 / 2505	25.67	0.369	-24.2	+10	-36.16	10.82	7.11	VERTICAL	PASSED
21100 / 2535	24.8	0.302	-25.28	+10	-36.14	11.02	7.08	VERTICAL	PASSED
21400 / 2565	24.44	0.278	-25.64	+10	-36.14	11.04	7.1	VERTICAL	PASSED

FDD, CBW 10MHz, QPSK, 1RB mid, Peak detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20800 / 2505	29.18	0.828	-20.69	+10	-36.16	10.82	7.11	VERTICAL	PASSED
21100 / 2535	28.02	0.634	-22.06	+10	-36.14	11.02	7.08	VERTICAL	PASSED
21400 / 2565	28.21	0.662	-21.87	+10	-36.14	11.04	7.1	VERTICAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	25.4	0.347	-24.37	+10	-36.02	10.83	7.08	VERTICAL	PASSED
21100 / 2535	24.79	0.301	-25.29	+10	-36.14	11.02	7.08	VERTICAL	PASSED
21350 / 2560	24.63	0.290	-25.32	+10	-36.03	11.02	7.1	VERTICAL	PASSED

FDD, CBW 20MHz, QPSK, 1RB mid, Peak detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	29.38	0.867	-20.39	+10	-36.02	10.83	7.08	VERTICAL	PASSED
21100 / 2535	28.08	0.643	-22	+10	-36.14	11.02	7.08	VERTICAL	PASSED
21350 / 2560	28.25	0.668	-21.7	+10	-36.03	11.02	7.1	VERTICAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	25.68	0.370	-24.09	+10	-36.02	10.83	7.08	VERTICAL	PASSED
21100 / 2535	25.3	0.339	-24.78	+10	-36.14	11.02	7.08	VERTICAL	PASSED
21350 / 2560	24.78	0.301	-25.17	+10	-36.03	11.02	7.1	VERTICAL	PASSED

FDD, CBW 20MHz, 16QAM, 1RB mid, Peak detector

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBi]	L _{SUBST CABLE} [dB]	Polarisation	Result
20850 / 2510	29.44	0.879	-20.33	+10	-36.02	10.83	7.08	VERTICAL	PASSED
21100 / 2535	28.32	0.679	-21.76	+10	-36.14	11.02	7.08	VERTICAL	PASSED
21350 / 2560	28.36	0.685	-21.59	+10	-36.03	11.02	7.1	VERTICAL	PASSED

2.14. LTE12 test results

Antenna1;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23060 / 704	17.79	0.060	-13.98	+10	-28	-2.8	3.43	VERTICAL	PASSED
23095 / 707.5	17.57	0.057	-12.92	+10	-26.72	-2.8	3.43	HORIZONTAL	PASSED
23130 / 711	18.43	0.070	-12.31	+10	-27.08	-2.8	3.54	HORIZONTAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23060 / 704	18.73	0.075	-13.04	+10	-28	-2.8	3.43	VERTICAL	PASSED
23095 / 707.5	18.8	0.076	-12.77	+10	-27.8	-2.8	3.43	VERTICAL	PASSED
23130 / 711	19.12	0.082	-12.53	+10	-27.99	-2.8	3.54	VERTICAL	PASSED

FDD, CBW 1.4MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23017 / 699.7	17.66	0.058	-12.94	+10	-26.72	-2.7	3.42	HORIZONTAL	PASSED
23095 / 707.5	18.76	0.075	-11.61	+10	-26.6	-2.8	3.43	HORIZONTAL	PASSED
23173 / 715.3	18.06	0.064	-13.36	+10	-27.75	-2.9	3.43	VERTICAL	PASSED

Antenna2;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23060 / 704	18.77	0.075	-12.02	+10	-27.02	-2.8	3.43	HORIZONTAL	PASSED
23095 / 707.5	18.66	0.073	-11.83	+10	-26.72	-2.8	3.43	HORIZONTAL	PASSED
23130 / 711	19.06	0.081	-11.68	+10	-27.08	-2.8	3.54	HORIZONTAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23060 / 704	19.24	0.084	-11.55	+10	-27.02	-2.8	3.43	HORIZONTAL	PASSED
23095 / 707.5	18.94	0.078	-11.55	+10	-26.72	-2.8	3.43	HORIZONTAL	PASSED
23130 / 711	19.09	0.081	-11.65	+10	-27.08	-2.8	3.54	HORIZONTAL	PASSED

FDD, CBW 1.4MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23017 / 699.7	18.53	0.071	-12.07	+10	-26.72	-2.7	3.42	HORIZONTAL	PASSED
23095 / 707.5	18.83	0.076	-12.58	+10	-27.64	-2.8	3.43	VERTICAL	PASSED
23173 / 715.3	19.4	0.087	-11.35	+10	-27.08	-2.9	3.43	HORIZONTAL	PASSED

2.15. LTE17 test results

Antenna1;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23780 / 709	18.52	0.071	-11.92	+10	-26.72	-2.8	3.48	HORIZONTAL	PASSED
23790 / 710	18.32	0.068	-12.23	+10	-26.83	-2.8	3.48	HORIZONTAL	PASSED
23800 / 711	18.59	0.072	-12.99	+10	-27.92	-2.8	3.54	VERTICAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23780 / 709	17.76	0.060	-13.75	+10	-27.79	-2.8	3.48	VERTICAL	PASSED
23790 / 710	17.97	0.063	-12.58	+10	-26.83	-2.8	3.48	HORIZONTAL	PASSED
23800 / 711	18.17	0.066	-13.41	+10	-27.92	-2.8	3.54	VERTICAL	PASSED

Antenna2;

FDD, CBW 10MHz, QPSK, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23780 / 709	18.54	0.071	-11.9	+10	-26.72	-2.8	3.48	HORIZONTAL	PASSED
23790 / 710	18.53	0.071	-12.02	+10	-26.83	-2.8	3.48	HORIZONTAL	PASSED
23800 / 711	18.74	0.075	-11.81	+10	-26.89	-2.8	3.54	HORIZONTAL	PASSED

FDD, CBW 10MHz, 16QAM, 1RB mid, RMS detector

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	P _{SUBST TX} [dBm]	P _{SUBST RX} [dBm]	G _{SUBST TX ANT} [dBd]	L _{SUBST CABLE} [dB]	Polarisation	Result
23780 / 709	18.81	0.076	-11.63	+10	-26.72	-2.8	3.48	HORIZONTAL	PASSED
23790 / 710	18.96	0.079	-12.68	+10	-27.92	-2.8	3.48	VERTICAL	PASSED
23800 / 711	18.66	0.073	-11.89	+10	-26.89	-2.8	3.54	HORIZONTAL	PASSED

3. Test Equipment

3.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	RF Emission Software	EMC32 Test Software	R&S	22/24/27, 15C, 15B
BJPCHW0020	DC Power supply	Hp6632B	HP	22/24/27, 15C
BJPCPT0040	Receiver	ESCS30	R&S	15C, 15B
BJPCPT0069	LISN 50 μ H	ESH3-Z5	R&S	15C, 15B
BJPCTC0323	Signal Generator	SMR 27	R&S	22/24/27, 15C, 15B
BJPCPT0073	Signal Generator	SMR 20	R&S	22/24/27, 15C, 15B
BJPCPT0191	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
BJPCPT0208	UPS	PULSAR RX10	Merlin gerin	15C, 15B
BJPCTC0001	DIGITAL CAMERA	PC1015	CANON	15C, 15R
BJPCTC0017	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
BJPCTC0062	AC Power source	6812B	Hp	15C, 15B
BJPCTC0067	Bluetooth Tester	CBT	R&S	22/24/27, 15C
BJPCTC0082	Humidity and Temperature Sensor	175-H2	Testo	15B, 15C
BJPCTC0088	Absolut pressure meter	testo 511	Testo	22/24/27, 15B, 15C
BJPCTC0089	Tempreture Test chamber	VT4002	Votsch industrietechnik	22/24/27, 15C
BJPCTC0090	FSP spectrum analyzer	FSP30	R&S	22/24/27, 15C
BJPCTC0094	GPIO-RS232 convertor	GPIO-RS232	NI	22/24/27, 15C
BJPCTC0112	Power Splitter	11667B	Agilent	22/24/27, 15C
BJPCTC0127	AC Power source	SOYI-500VA	SOYI	15B, 15C
BJPCTC0128	Communication antenna	JXTXLB-10180	A-INFOMW	22/24/27, 15B, 15C
BJPCTC0129	Communication antenna	JXTXLB-10180	A-INFOMW	22/24/27, 15B, 15C
BJPCTC0131	Communication tester	CMW500	R&S	22/24/27, 15B, 15C
BJPCTC0136	Communication antenna	JXTXLB-880-NF	A-INFOMW	15B, 15C
BJPCTC0306	Power Splitter	11667B	Agilent	22/24/27, 15C
BJPCTC0305	GPIO converter	GPIO-RS232	NI	22/24/27, 15C
BJPCTC0304	Spectrum Analyser	FSV30	R&S	22/24/27, 15C
BJPCTC0309	GPIO-RS232 convertor	RS232	NI	22/24/27, 15C
BJPCTC0307	Dual channel battery/charger simulator	2306	KEITHLEY	22/24/27, 15C
BJPCTC0308	Dual channel battery/charger simulator	2306	KEITHLEY	22/24/27, 15C
BJPCTC0352	Signal Generator 20GHz	MG3692B	Anritsu	22/24/27, 15C
BJBDATC0169	Tempreture Test chamber	VT4002	Votsch	22/24/27, 15C
BJPCTC0334	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
BJPCTC0342	Communication Tester	CMU200	R&S	15B, 15C
BJPCTC0343	Power Splitter	1167A	Agilent	EN300328
BJPCTC0344	Power Splitter	1167A	Agilent	EN300328
BJPCTC0345	Power Splitter	1167A	Agilent	EN300328
BJPCTC0346	Attenuator	8496A	Agilent	EN300328
BJPCTC0347	Directional Coupler	4226-20	Narda	EN300328
BJPCTC0348	Signal generator	E4438C	Agilent	EN300328
BJPCTC0336	Signal Generator	SMP22	R&S	22/24/27, 15C
BJPCTC0357	Signal Generator	SMB100A	R&S	-

3.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	RF Emission Software	EMC32 Test Software	R&S	22/24/27, 15C, 15B
BJPCPT0072	Receiver	ESIB26	R&S	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
BJPCPT0150	High Pass Filter	WHKS1200-10SS	Wainwright	22/24/27, 15C, 15B
BJPCPT0151	Band Reject Filter	WRCD1880/2000-0.2/40-5SSK	Wainwright	24, 15B
BJPCPT0154	Band Reject Filter	WRCT2402/2480-2400/2483.5-30-20SS	Wainwright	15C, 15B
BJPCPT0166	Antenna	VUBA 9117	Swarzbeck	22/24/27
BJPCPT0208	UPS	PULSAR RX10	Merlin gerin	15C,15B
BJPCTC0001	DIGITAL CAMERA	PC1015	CANON	15C,15R
BJPCTC0007	Antenna	HL562	R&S	22/24/27, 15C, 15B
BJPCTC0029	Antenna	HF906	R&S	22/24/27, 15C, 15B
BJPCTC0034	Band Reject Filter	WRCT 800/880-0.2/40-5SSK	Wainwright	22, 15B
BJPCTC0049	Preamplifier	Blma 0118-1A-Bt	Bonn	22/24/27, 15C, 15B
BJPCTC0055	Communication Tester	CMU200	R&S	22/24/27,15C,15B
BJPCTC0058	Bluetooth Tester	CBT	R&S	15C, 15B
BJPCTC0062	AC Power source	6812B	Hp	15C,15B
BJPCTC0064	Band Reject Filter	WRCG1877/1883-1870/1890-40/6SS	Wainwright	24, 15B
BJPCTC0071	Multi-Device Controller	2090	EMCO	22/24/27, 15C, 15B
BJPCTC0072	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	ETS	22/24/27, 15C, 15B
BJPCTC0073	MAST	Model-TR/POL	ETS	22/24/27, 15C, 15B
BJPCTC0074	MAST	Model 2070-2	ETS	22/24/27, 15C, 15B
BJPCTC0075	Turntable	Model 2188	ETS-EMCO	22/24/27, 15C, 15B
BJPCTC0081	Humidity and Temperature Sensor	175-H2	Testo	15B, 15C
BJPCTC0088	Absolut pressure meter	testo 511	Testo	22/24/27, 15B,15C
BJPCTC0124	Attenuator	SA18N200W-40	Fairview Microwave	-
BJPCTC0125	Loop Antenna	HFH2-Z2	R&S	15C
BJPCTC0126	Tripod	FHU-Z	R&S	15C
BJPCTC0128	Communication antenna	JXTXLB-10180	A-INFOMW	22/24/27 15B 15C
BJPCTC0129	Communication antenna	JXTXLB-10180	A-INFOMW	22/24/27 15B 15C
BJPCTC0131	Communication tester	CMW500	R&S	22/24/27 15B 15C
BJPCTC0133	Open Swith and contril unit	OSP 150	R&S	15B,15C
BJPCTC0134	Open Swith and contril unit	OSP 150	R&S	15B,15C
BJPCTC0135	Open Swith and contril unit	OSP 130	R&S	15B,15C
BJPCTC0136	Communication antenna	JXTXLB-880-NF	A-INFOMW	15B 15C
BJPCTC0171	Broad-band Horn Antenna	BBHA9120 D	SCHWARZBECK MESS - ELEKTRONIK	22/24/27, 15C, 15B
BJPCTC0310	Horn Antenna	QSH20SMA	Q-par	22/24/27, 15C, 15B
BJPCTC0311	Horn Antenna	QSH18SMA	Q-par	22/24/27, 15C, 15B
BJPCTC0312	Relay Switch Unit	-	-	22/24/27, 15C, 15B
BJPCTC0313	High Pass Filter	WHKX1.0/15G-12SS	Wainwright	22/24/27, 15C, 15B
BJPCTC0314	High Pass Filter	WHKX8.0/18G-88SS	Wainwright	22/24/27, 15C, 15B
BJPCTC0315	High Pass Filter	WHKX3.0/18G-12SS	Wainwright	22/24/27, 15C, 15B
BJPCTC0316	Preamplifier	AMT-5F-18002550-25-108	-	22/24/27, 15C, 15B
BJPCTC0317	Preamplifier	AMF-6D-02001800-29-20P	-	22/24/27, 15C, 15B
BJPCTC0350	Preamplifier	AMF-4D-01000800-30-29P	Miteq	22/24/27, 15C, 15B
BJPCTC0324	Preamplifier	AFS4-00100300-20-23P-6	Miteq	22/24/27, 15C, 15B
BJPCTC0329	Relay Switch Unit	-	-	22/24/27, 15C, 15B
BJPCTC0334	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
BJPCTC0342	Communication Tester	CMU200	R&S	15B, 15C
BJPCTC0349	Preamplifier	AMF-4D-01000800-30-79P	Miteq	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
BJPCTC0350	Preamplifier	AMF-4D-01000800-30-29P	Miteg	22/24/27, 15C, 15B
BJPCTC0351	Preamplifier	AFS4-00101800	-	22/24/27, 15C, 15B
BJPCTC0113	Receiver	ESI B26	R&S	22/24/27, 15B, 15C

4. Appendix

4.1. Conducted LTE RF output power values measured by the customer

4.1.1 Tolerance

Tolerance [dB]	
Low	-0.5
High	0.4

4.1.2 LTE 2

SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz
LTE 2	QPSK	1	2	23.4	23.4	23.3			
1.4 MHz	16QAM	1	2	22.9	22.5	22.2			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz
LTE 2	QPSK	1	7	23.5	23.4	23.4	23.7	23.6	23.3
3 MHz	16QAM	1	7	22.6	22.8	23.0	22.6	22.6	22.6
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz
LTE 2	QPSK	1	12	23.3	23.4	23.4	23.3	23.3	23.3
5 MHz	16QAM	1	12	22.7	22.8	22.4	22.6	22.5	22.0
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz
LTE 2	QPSK	1	24	23.4	23.6	23.6	23.5	23.6	23.4
10 MHz	16QAM	1	24	22.7	22.7	22.5	22.8	22.8	22.7
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz
LTE 2	QPSK	1	36	23.4	23.5	23.3	23.3	23.4	23.3
15 MHz	16QAM	1	36	22.7	22.7	22.4	22.6	22.6	22.3
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz
LTE 2	QPSK	1	49	23.2	23.4	23.3	23.4	23.4	23.3
20 MHz	16QAM	1	49	22.8	22.7	22.3	22.9	23.0	22.2

4.1.3 LTE 4

SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz
1.4 MHz	QPSK	1	2	23.5	23.7	23.6			
1.4 MHz	16QAM	1	2	22.9	22.8	22.9			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz
LTE4	QPSK	1	7	23.4	23.5	23.5	23.3	23.5	23.5
3 MHz	16QAM	1	7	22.7	22.9	22.9	22.9	22.9	22.9
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz
LTE4	QPSK	1	12	23.3	23.5	23.5	23.4	23.5	23.5
5 MHz	16QAM	1	12	23.0	22.9	22.5	22.8	22.8	22.9
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz
LTE4	QPSK	1	24	23.4	23.6	23.8	23.6	23.7	23.7
10 MHz	16QAM	1	24	22.8	22.8	23.2	22.9	23.0	23.1
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz
LTE4	QPSK	1	36	23.5	23.5	23.6	23.4	23.5	23.6
15 MHz	16QAM	1	36	22.7	22.8	23.1	22.8	23.0	23.1
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz
LTE4	QPSK	1	49	23.5	23.6	23.4	23.5	23.4	23.4
20 MHz	16QAM	1	49	22.6	23.0	22.8	22.9	23.2	23.0

4.1.4 LTE 5

SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz
LTE5	QPSK	1	2	23.7	23.5	23.7			
1.4 MHz	16QAM	1	2	22.8	22.8	22.7			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz
LTE5	QPSK	1	7	23.6	23.4	23.6			
3 MHz	16QAM	1	7	22.9	22.7	23.0			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz
LTE5	QPSK	1	12	23.6	23.4	23.5			
5 MHz	16QAM	1	12	22.8	22.5	22.7			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz
LTE5	QPSK	\$ 1.00	\$ 24.00	\$ 23.50	\$ 23.50	\$ 23.80			
10 MHz	16QAM	\$ 1.00	\$ 24.00	\$ 22.80	\$ 22.60	\$ 22.90			

4.1.5 LTE 7

SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20775 / 2502.5 MHz	Ch21100 / 2535 MHz	Ch21425 / 2567.5 MHz	Ch20775 / 2502.5 MHz	Ch21100 / 2535 MHz	Ch21425 / 2567.5 MHz
LTE7	QPSK	1	12	23.1	23.1	23.0			
5 MHz	16QAM	1	12	22.5	22.4	22.4			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20800 / 2505 MHz	Ch21100 / 2535 MHz	Ch21400 / 2565 MHz	Ch20800 / 2505 MHz	Ch21100 / 2535 MHz	Ch21400 / 2565 MHz
LTE7	QPSK	1	24	23.3	23.1	23.1			
10 MHz	16QAM	1	24	22.2	22.3	22.3			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20825 / 2507.5 MHz	Ch21100 / 2535 MHz	Ch21375 / 2562.5 MHz	Ch20825 / 2507.5 MHz	Ch21100 / 2535 MHz	Ch21375 / 2562.5 MHz
LTE7	QPSK	1	36	23.1	23.0	23.0			
15 MHz	16QAM	1	36	22.3	22.2	22.2			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch20850 / 2510 MHz	Ch21100 / 2535 MHz	Ch21350 / 2560 MHz	Ch20850 / 2510 MHz	Ch21100 / 2535 MHz	Ch21350 / 2560 MHz
LTE7	QPSK	1	49	23.1	22.9	23.0			
20 MHz	16QAM	1	49	22.6	22.2	22.0			

4.1.6 LTE 12

SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz
LTE12 1.4 MHz	QPSK	1	2	23.4	23.2	23.4			
	16QAM	1	2	22.8	22.9	22.8			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz
LTE12 3 MHz	QPSK	1	7	23.3	23.3	23.3			
	16QAM	1	7	22.8	22.9	22.4			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz
LTE12 5 MHz	QPSK	1	12	23.4	23.5	23.3			
	16QAM	1	12	22.6	22.5	22.7			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz
LTE12 10 MHz	QPSK	1	24	23.5	23.4	23.3			
	16QAM	1	24	22.7	22.8	22.8			

4.1.7 LTE 17

SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz
LTE17 5 MHz	QPSK	1	12	23.3	23.3	23.3			
	16QAM	1	12	22.5	22.5	22.4			
SN: 00440272351970				Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz
LTE17 10 MHz	QPSK	1	24	23.6	23.3	23.5			
	16QAM	1	24	22.6	22.4	22.8			