

PARTIAL Test Report

23-1-0043901T002a

Number of pages:	40	Date of Report:	2024-Feb-07
Testing company:	cetecom advanced GmbH Untertuerkheimer Str. 6-10 66117 Saarbruecken GERMANY	Applicant:	Continental Engineering Services GmbH
Product:	Telematic Device		
Model:	STP-MID		
FCC ID:	2BDLN-STPMIDNA	IC:	N/A
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A Part 15, Subpart C Intentional Radiators; § 15.209 Radiated emission limits; general requirements Title 47 CFR, Chapter I, Subchapter B Part 22, Subpart H Cellular Radiotelephone Service Part 24, Subpart E Paging and Radiotelephone Service Part 27, Subpart C Miscellaneous Wireless Communications Services Title 47 CFR, Chapter I, Subchapter D Part 90, Subpart I, General technical standards; Subpart S Private Land Mobile Radio Services		
Tested Technology:	LTE		
Test Results:	☒ The EUT complies with the requirements in respect of selected parameters subject to the test. The test results relate only to devices specified in this document		
Signatures:	 B.Eng. Martin Nunier Supervisor Radio Services Authorization of test report  Timo Franke Test Manager Responsible of test report		

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1 General information

1.1 Disclaimer and Notes

The test results of this test report relate exclusively to the test item specified in this test report as specified in chapter 2.7. cetecom advanced does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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Also we refer on special conditions which the applicant should fulfill according §2.927 to §2.948, special focus regarding modification of the equipment and availability of sample equipment for market surveillance tests.

1.2 Attestation

I declare that all measurements were performed by me or under my supervision and that all measurements have been performed and are correct to my best knowledge and belief to Industry Canada standards. All of the above requirements are met in accordance with enumerated standards.

1.3 Summary of Test Results

Test case in LTE2 band	Reference Clause FCC ☒	Page	Remark	Result
AC-Power Lines Conducted Emissions	§15.207(a)	--	--	N/A
Conducted RF output power	§2.1046	14	--	PASSED
Radiated RF output power	§24.232(c), §2.1046	--	--	NP
26 dB Emission bandwidth	§24.238(b), §2.1049	--	--	NP
Occupied Channel Bandwidth 99%	§24.238(b), §2.1049	--	--	NP
Radiated Band Edge	§24.238(a)(b), §2.1053(a), §2.1057(a)	35	--	PASSED
Conducted RF Band Edge	§24.238(a)(b), §2.1051	--	--	NP
Peak to Average ratio (PAPR)	§24.232(d), §2.1046	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205, §15.209	30	--	PASSED
Spurious emissions at antenna terminals	§24.238(a)(b), §2.1051, §2.1057(a)	--	--	NP
Radiated spurious emissions	§24.238(a)(b), §2.1053, §2.1057(a)	33	--	PASSED
Frequency stability, temperature variation	§24.235, §2.1055(a)(1)	--	--	NP
Frequency stability, voltage variation	§24.235, §2.1055(d)(1)	--	--	NP
Test case in LTE4 band	Reference Clause FCC	Page	Remark	Result
AC-Power Lines Conducted Emissions	§15.207(a)	--	--	N/A
Conducted RF output power	§27.50(d)(4), §2.1046	14	--	PASSED
Radiated RF output power	§27.50(d)(4), §2.1046	--	--	NP
26 dB Emission bandwidth	§27.53(h)(3), §2.1049	--	--	NP
Occupied Channel Bandwidth 99%	§27.53(h)(3), §2.1049	--	--	NP
Radiated Band Edge	§27.53(h), §2.1053, §2.1057(a)	35	--	PASSED
Conducted RF Band Edge	§27.53(h), §2.1051, §2.1057(a)	--	--	NP
Peak to Average ratio (PAPR)	§27.50(d)(4)(5), §2.1046	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205, §15.209	30	--	PASSED
Spurious emissions at antenna terminals	§27.53(h), §2.1051	--	--	NP
Radiated spurious emissions	§27.53(h), §2.1051, §2.1057(a)	33	--	PASSED
Frequency stability, temperature variation	§27.54, §2.1055(a)(1)	--	--	NP
Frequency stability, voltage variation	§27.54, §2.1055(d)(1)	--	--	NP
Test case in LTE5 band	Reference Clause FCC	Page	Remark	Result
AC-Power Lines Conducted Emissions	§15.207(a)	--	--	N/A
Conducted RF output power	§22.913(a)(5), §2.1046	14	--	PASSED
Radiated RF output power	§22.913, §2.1046	--	--	NP
26 dB Emission bandwidth	§22.917(b), §2.1049	--	--	NP
Occupied Channel Bandwidth 99%	§22.917(b), §2.1049	--	--	NP
Radiated Band Edge	§22.917(a)(b), §2.1053(a), §2.1057(a)	35	--	PASSED
Conducted RF Band Edge	§22.917(a)(b), §2.1051, §2.1057(a)	--	--	NP
Peak to Average ratio (PAPR)	§22.913(d), §2.1046	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205, §15.209	30	--	PASSED
Spurious emissions at antenna terminals	§22.917(a)(b), §2.1051, §2.1057(a)	--	--	NP

Radiated spurious emissions	§22.917(a)(b), §2.1051, §2.1057(a)	33	--	PASSED
Frequency stability, temperature variation	§22.355, §2.1055(a)(1)	--	--	NP
Frequency stability, voltage variation	§22.355, §2.1055(d)(1)	--	--	NP
Test case in LTE7 band	Reference Clause FCC	Page	Remark	Result
AC-Power Lines Conducted Emissions	§15.207(a)	--	--	N/A
Conducted RF output power	§27.50(h)(2), §2.1046	14	--	PASSED
Radiated RF output power	§27.50(h)(2), §2.1046	--	--	NP
26 dB Emission bandwidth	§27.53(h)(3), §2.202(a), §2.1049	--	--	NP
Occupied Channel Bandwidth 99%	§27.53(h)(3), §2.202(a)	--	--	NP
Radiated Band Edge	§27.53(m)(4), §2.1053, §2.1057(a)	35	--	PASSED
Conducted RF Band Edge	§27.53(m)(4), §2.1051, §2.1057(a)	--	--	NP
Peak to Average ratio (PAPR)	§27.50(h)(2), §2.1046	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205, §15.209	30	--	PASSED
Spurious emissions at antenna terminals	§27.53(m)(4), §2.1051, §2.1057(a)	--	--	NP
Radiated spurious emissions	§27.53(m)(4), §2.1053, §2.1057(a)	33	--	PASSED
Frequency stability, temperature variation	§27.54, §2.1055(a)(1)	--	--	NP
Frequency stability, voltage variation	§27.54, §2.1055(d)(1)	--	--	NP
Test case in LTE12 band	Reference Clause FCC	Page	Remark	Result
AC-Power Lines Conducted Emissions	§15.207(a)	--	--	N/A
Conducted RF output power	§27.50(c)(10), §2.1046	14	--	PASSED
Radiated RF output power	§27.50(c)(10), §2.1046	--	--	NP
26 dB Emission bandwidth	§2.1049	--	--	NP
Occupied Channel Bandwidth 99%	§2.1049	--	--	NP
Radiated Band Edge	§27.53(g), §2.1053, §2.1057(a)	35	--	PASSED
Conducted RF Band Edge	§27.53(g), §2.1053(a), §2.1057(a)	--	--	NP
Peak to Average ratio (PAPR)	§27.50(c)(10), §2.1046	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205, §15.209	30	--	PASSED
Spurious emissions at antenna terminals	§27.53(g), §2.1051, §2.1057(a)	--	--	NP
Radiated spurious emissions	§27.53(g), §2.1053(a), §2.1057(1)	33	--	PASSED
Frequency stability, temperature variation	§27.54, §2.1055(a)(1)	--	--	NP
Frequency stability, voltage variation	§27.54, §2.1055(d)(1)	--	--	NP
Test case in LTE13 band	Reference Clause FCC	Page	Remark	Result
AC-Power Lines Conducted Emissions	§15.207(a)	--	--	N/A
Conducted RF output power	§27.50(b)(10)(11), §2.1046(a)	14	--	PASSED
Radiated RF output power	§27.50(b)(10)(11), §2.1046(a)	--	--	NP
26 dB Emission bandwidth	§2.1049	--	--	NP
Occupied Channel Bandwidth 99%	§2.1049	--	--	NP

Radiated Band Edge	§27.53(c)(3)(4), §2.1053, §2.1057(a)	35	--	PASSED
Conducted RF Band Edge	§27.53(c)(3)(4), §2.1051, §2.1057(a)	--	--	NP
Peak to Average ratio (PAPR)	§2.1046	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205, §15.209	30	--	PASSED
Spurious emissions at antenna terminals	§27.53(c)(2)(3)(4), §2.1051, §2.1057(a)	--	--	NP
Radiated spurious emissions	§27.53(c)(2)(3)(4) §27.53(f) §27.1053(a)(b) §2.1053, §2.1057(a)	33	--	PASSED
Frequency stability, temperature variation	§27.54, §2.1055(a)(1)	--	--	NP
Frequency stability, voltage variation	§27.54, §2.1055(d)(1)	--	--	NP

PASSED

The EUT complies with the essential requirements in the standard.

FAILED

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

N/A

Test case does not apply to the test object.

NP

The test was not performed by the cetecom advanced Laboratory.

Decision Rule: cetecom advanced GmbH follows [ILAC G8:2019 chapter 4.2.1 \(Simple Acceptance Rule\)](#).

Remarks:

- Please check the module report "FG931416B issued by SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory on 2019-May-30" for not performed Measurements by the cetecom advanced laboratory.

1.4 Summary of Test Methods

Test case	Test method
AC-Power Lines Conducted Emissions	ANSI C63.4-2014, §7, ANSI C63.10-2013 §6.2
Conducted RF output power	ANSI C63.26:2015, §5.2, KDB 971168 D01 v03r01
Radiated RF output power	ANSI C63.26:2015, §5.2.7, KDB 971168 D01 v03r01
Occupied Channel Bandwidth 99%	ANSI C63.26:2015, §5.4.4, KDB 971168 D01 v03r01
26dB Emission bandwidth	ANSI C63.26:2015, §5.4.3, KDB 971168 D01 v03r01
Modulation characteristics	ANSI C63.26:2015, §5.3
Radiated Band Edge	ANSI C63.26:2015, §5.5, KDB 971168 D01 v03r01
Conducted RF Band Edge	ANSI C63.26:2015, §5.7, KDB 971168 D01 v03r01
Peak to Average ratio (PAPR)	ANSI C63.26:2015, §5.2.6
Result calculated with measured conducted RF-power value and stated/measured antenna gain for band of interest	
Radiated field strength emissions below 30 MHz	ANSI C63.4-2014 §5.3, §8.2.1, §8.3.1.1+§8.3.2.1
Spurious emissions at antenna terminals	ANSI C63.26:2015, §5.7, KDB 971168 D01 v03r01
Radiated spurious emissions	ANSI C63.26:2015, §5.5, KDB 971168 D01 v03r01, ANSI C63.26.1:2018

2 Administrative Data

2.1 Identification of the Testing Laboratory

Company name:	cetecom advanced GmbH
Address:	Untertuerkheimer Str. 6-10 66117 Saarbruecken Germany
Responsible for testing laboratory:	Dipl.-Ing. (FH) Andreas Luckenbill M.Sc.
Accreditation scope:	DAkkS Webpage: FCC ISED
IC Lab company No. / CAB ID:	3462D / DE0001
Test location 1:	Im Teelbruch 116; 45219 Essen
Test location 2:	--

2.2 General limits for environmental conditions

Temperature:	22±2 °C
Relative. humidity:	45±15% rH

2.3 Test Laboratories sub-contracted

Company name:	--
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2.4 Organizational Items

Responsible test manager:	Timo Franke
Receipt of EUT:	2023-Nov-07
Date(s) of test:	2023-Nov-20 to 2024-Jan-09
Version of template:	24.0101

2.5 Applicant's details

Applicant's name:	Continental Engineering Services GmbH
Address:	Nordostpark 30 90411 Nuremberg Bavaria Germany
Contact Person:	Tobias Mrowietz
Contact Person's Email:	tobias.mrowietz@conti-engineering.com

2.6 Manufacturer's details

Manufacturer's name:	Continental Engineering Services GmbH
Address:	Nordostpark 30 90411 Nuremberg Germany

2.7 Equipment under Test (EUT)

EUT No. *)	Sample No.	Product	Model	Type	SN	HW	SW
EUT 1	23-1-00439S02_C01	Telematic Device	STP-MID	STP-MID NA	N/A	B-Sample	otp-mdm9x28-2.64.1.16
EUT 2	23-1-00439S03_C01	Telematic Device	STP-MID	STP-MID NA	N/A	B-Sample	otp-mdm9x28-2.64.1.16
EUT 3	23-1-00439S04_C01	Telematic Device	STP-MID	STP-MID NA	N/A	B-Sample	otp-mdm9x28-2.64.1.16

*) EUT short description is used to simplify the identification of the EUT in this test report.

2.8 Untested Variant (VAR)

VAR No. *)	Sample No.	Product	Model	Type	SN	HW	SW
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*) The listed additional untested model variant(s) (VAR) is/are not object of evaluation of compliance. For further information please see Annex 5: Declaration of applicant of model differences.

If the table above does not show any other line than the headline, no untested variants are available.

2.9 Auxiliary Equipment (AE)

AE No. *)	Sample No.	Auxiliary Equipment	Model	SN	HW	SW
AE 1	23-1-00439S07_C01	Laptop	HP Zbook	N/A	N/A	N/A
AE 2	23-1-00439S08_C01	Power supply	N/A	N/A	N/A	N/A

*) AE short description is used to simplify the identification of the auxiliary equipment in this test report. If the table above does not show any other line than the headline, no AE was used during testing nor was taken into account for evaluation

2.10 Connected cables (CAB)

CAB No. *)	Sample No.	Cable Type	Connectors / Details	Length
CAB 1	23-1-00439S05_C01	Connection harness	N/A	N/A
CAB 2	23-1-00439S06_C01	Connection harness	N/A	N/A

*) CAB short description is used to simplify the identification of the connected cables in this test report. If the table above does not show any other line than the headline, no cable was used during testing nor was taken into account for evaluation

2.11 Software (SW)

SW No. *)	Sample No.	SW Name	Description	SW Status
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*) SW short description is used to simplify the identification of the used software in this test report. If the table above does not show any other line than the headline, no SW was used during testing nor was taken into account for evaluation.

2.12 EUT set-ups

set-up no. *)	Combination of EUT and AE	Description
1	EUT 1 + CAB 1	Used for radiated measurements. AE 1 + AE 2 only used for configuration.
2	EUT 2 + CAB 1	Used for radiated measurements. AE 1 + AE 2 only used for configuration.
3	EUT 3 + CAB 2	Used for conducted measurements. AE 1 + AE 2 only used for configuration.

*) EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

2.13 EUT operation modes

EUT operating mode no. *)	Operating modes	Additional information
Operating mode 1	LTE FDD Band 2 Traffic	Frequency / channel range: UL: 1850.0 to 1910 MHz, DL: 1930.0 to 1990 MHz / Channel: UL: 18600 to 19199, DL: 600 to 1199. A Communication link has been established between Wideband Radio Communication Tester CMW500 and EUT, Uplink Channel: 18700, Uplink frequency: 1860.0 MHz, RB:12, Start RB:19, BW:10 MHz, Downlink Frequency: 1940.0 MHz
Operating mode 2	LTE FDD Band 4 Traffic	Frequency / channel range: UL:1710 to 1755 MHz, DL: 2110 to 2155 MHz / Channel: UL: 19950 to 20399, DL: 1950 to 2399. A Communication link has been established between Wideband Radio Communication Tester CMW500 and EUT, Uplink Channel: 20175, Uplink frequency: 1732.5 MHz, RB:12, Start RB:19, BW:10 MHz, Downlink Frequency: 2132.5 MHz
Operating mode 3	LTE FDD Band 5 Traffic	Frequency / channel range: UL:824 to 849 MHz, DL: 869 to 894 MHz / Channel: UL: 20400 to 20649, DL: 2400 to 2649. A Communication link has been established between Wideband Radio Communication Tester CMW500 and EUT, Uplink Channel: 20505, Uplink frequency: 834.5 MHz, RB:12, Start RB:19, BW:10 MHz, Downlink Frequency: 879.5 MHz
Operating mode 4	LTE FDD Band 7 Traffic	Frequency / channel range: UL:2500 to 2570 MHz, DL: 2620 to 2690 MHz / Channel: UL: 20750 to 21449, DL: 2750 to 3449. A Communication link has been established between Wideband Radio Communication Tester CMW500 and EUT, Uplink Channel: 21100, Uplink frequency: 2535.0 MHz, RB:12, Start RB:19, BW:10 MHz, Downlink Frequency: 2655.0 MHz
Operating mode 5	LTE FDD Band 12 Traffic	Frequency / channel range: UL: 699 to 716 MHz, DL: 729 to 746 MHz / Channel: UL: 23010 to 23179, DL: 5010 to 5179. A Communication link has been established between Wideband Radio Communication Tester CMW500 and EUT, Uplink Channel: 23095, Uplink frequency: 707.5 MHz, RB:12, Start RB:19, BW:10 MHz, Downlink Frequency: 737.5 MHz
Operating mode 6	LTE FDD Band 13 Traffic	Frequency / channel range: UL: 777 to 787 MHz, DL: 746 to 756 MHz / Channel: UL: 23180 to 23279, DL: 5180 to 5279. A Communication link has been established between Wideband Radio Communication Tester CMW500 and EUT, Uplink Channel: 23230, Uplink frequency: 782.0 MHz, RB:12, Start RB:19, BW:10 MHz, Downlink Frequency: 751.0 MHz

*) EUT operating mode no. is used to simplify the test report.

3 Equipment under test (EUT)

3.1 General Data of Main EUT as Declared by Applicant

Firmware	☐ for normal use	☒ Special version for test execution
Power supply	☐ AC Mains	-
	☒ DC Mains	12 V DC
	☐ Battery	-
EUT sample type	Engineering Samples	
Weight	0.500 kg	
Size [LxWxH]	22.0 cm x 14.0 cm x 4.0 cm	
Interfaces/Ports	--	
For further details refer Applicants Declaration & following technical documents		

3.2 Detailed Technical data of Main EUT as Declared by Applicant

TX Frequency range [MHz] and Number of channels	☒ LTE 2	1850 - 1910 (UL), 1930 - 1990 (DL)	UARFCN range 18600 - 19199
	☒ LTE 4	1710 - 1755 (UL), 2110 - 2155 (DL)	UARFCN range 19950 - 20399
	☒ LTE 5	824 - 849 (UL), 869 -894 (DL)	UARFCN range 20400 - 20649
	☒ LTE 7	2505 - 2565 (UL), 2625 - 2685 (DL)	UARFCN range 20775 - 21350
	☒ LTE 12	699 - 716 (UL), 2625 - 2685 (DL)	UARFCN range 23010 - 23179
	☒ LTE 13	782 - 782 (UL), 751 - 751 (DL)	UARFCN range 23205 - 23230
	☐ LTE 17	704 - 716 (UL), 734 - 746 (DL)	UARFCN range 23755 - 23800
	☐ LTE 25	1850 - 1915 (UL), 1930 - 1995 (DL)	UARFCN range 26040 - 26689
	☐ LTE 26	814 – 848.9 (UL), 859 – 893.9 (DL)	UARFCN range 26690 - 27039
	☐ LTE 28	708 - 743 (UL), 763 - 798 (DL)	UARFCN range 27225 - 27645
	☐ LTE 41	2501 - 2685 (UL), 2501 - 2685 (DL)	UARFCN range 39675 - 41490
	☐ LTE 66	1710 - 1780 (UL), 2110 - 2200 (DL)	UARFCN range 131972 - 132671
Type of modulation	QPSK 16-QAM		
Emission designator	Nominal CBW	See initial certification of the module:	
Antenna Type	☒ Integrated ☐ External, no RF- connector ☐ External, separate RF-connector		
Antenna gain	LTE band 2: 4.3 dBi		LTE band 17: -- dBi
	LTE band 4: 4.2 dBi		LTE band 25: -- dBi
	LTE band 5: 0.2 dBi		LTE band 26: -- dBi
	LTE band 7: 3.3 dBi		LTE band 28: -- dBi
	LTE band 12: -0.4 dBi		LTE band 41: -- dBi
	LTE band 13: -0.1 dBi		LTE band 66: -- dBi
FCC label attached	No		
Test firmware / software and storage location	EUT		
For further details refer Applicants Declaration & following technical documents			
Description of Reference Document (supplied by applicant)		Version	Total Pages
--		--	--

3.3 Worst case identification

LTE mode	Data rate
LTE FDD B02	BW 10 MHz, Low channel 18650, 1RB@24
LTE FDD B04	BW 15 MHz, High channel 20325, 1RB@27
LTE FDD B05	BW 10 MHz, Low channel 20450, 1RB@49
LTE FDD B07	BW 15 MHz, Mid channel 21100, 1RB@74
LTE FDD B12	BW 3 MHz, High channel 23165, 1RB@0
LTE FDD B13	BW 10 MHz, High channel 23230, 1RB@24

3.4 Modifications on Test sample

Additions/deviations or exclusions	--
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4 Measurements

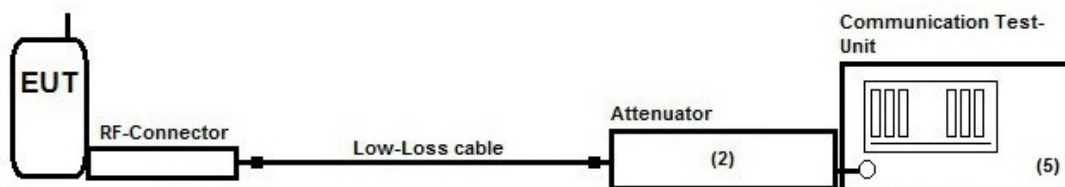
4.1 Conducted RF output power

4.1.1 Description of the general test setup and methodology, see below example:

Following modified test set-up apply for tests performed inside the climatic chamber (frequency stability) or conducted RF-carrier power-measurement. The EUT RF-Signal is directly connected over suitable RF-connector over low-loss cable and an attenuator (2) to the cellular radio communication test-unit. (5).

The measurements were performed with the integrated power measurement function of the communication test-unit. (5).

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

EUT settings

The EUT was instructed to send with maximum power (if adjustable) according applicants instructions.

The measurements were made at the low, middle and high carrier frequencies of each of the supported operating band within the designated range within the allowed channel bandwidths. Choosing three TX-carrier frequencies of the mobile phone, should be sufficient to demonstrate compliance

4.1.2 Measurement Location

Test site	Radio Lab
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4.1.3 Limit

Operation band	Frequency Range [MHz]	FCC Limit [W] ☒	ISED Limit [W] ☐
LTE2	1850 - 1910	2 EIRP (33 dBm)	2 EIRP (33 dBm)
LTE4	1710 - 1755	1 EIRP (30dBm)	1 EIRP (30dBm)
LTE5	824 - 849	7 ERP (38.5 dBm)	7 ERP (38.5 dBm)
LTE7	2500 - 2570	2 EIRP (33 dBm)	2 EIRP (33 dBm)
LTE12	699 - 716	2 ERP (33 dBm)	5 ERP (37 dBm)
LTE13	777 - 787	3 ERP (34.8 dBm)	5 ERP (37 dBm)

4.1.4 Result

LTE FDD Band 2																		
	Channel Nr.	ARFCN-Frequency [MHz]	Modulation	RB	Start RB	RMS Power at Antenna Port [dBm]	Maximum declared Antenna Gain [dBi]	Path loss to Antenna Connector	EIRP [dBm]	EIRP [W]	ERP [dBm]	ERP [W]	FCC Limit [W]; ERP	FCC Limit [dBm]; ERP	Verdict			
BW 1.4 MHz	18607	1850.70	QPSK	1	0	23.02	4.10	1.62	25.50	0.35481	23.35	0.21627	3.00	34.77	Passed			
				1	5	22.94	4.10	1.62	25.42	0.34834	23.27	0.21232	3.00	34.77	Passed			
				3	0	22.84	4.10	1.62	25.32	0.34041	23.17	0.20749	3.00	34.77	Passed			
				3	2	23.01	4.10	1.62	25.49	0.35400	23.34	0.21577	3.00	34.77	Passed			
			16QAM	6	0	21.94	4.10	1.62	24.42	0.27669	22.27	0.16866	3.00	34.77	Passed			
				1	0	21.46	4.10	1.62	23.94	0.24774	21.79	0.15101	3.00	34.77	Passed			
				1	5	21.99	4.10	1.62	24.47	0.27990	22.32	0.17061	3.00	34.77	Passed			
				3	0	21.78	4.10	1.62	24.26	0.26669	22.11	0.16255	3.00	34.77	Passed			
			16QAM	3	2	21.75	4.10	1.62	24.23	0.26485	22.08	0.16144	3.00	34.77	Passed			
				6	0	20.88	4.10	1.62	23.36	0.21677	21.21	0.13213	3.00	34.77	Passed			
				18900	1880.00	QPSK	1	0	23.06	4.20	1.63	25.63	0.36559	23.48	0.22284	3.00	34.77	Passed
							1	5	23.04	4.20	1.63	25.61	0.36392	23.46	0.22182	3.00	34.77	Passed
	3	0	22.99				4.20	1.63	25.56	0.35975	23.41	0.21928	3.00	34.77	Passed			
	3	2	22.95				4.20	1.63	25.52	0.35645	23.37	0.21727	3.00	34.77	Passed			
	16QAM	6	0			21.92	4.20	1.63	24.49	0.28119	22.34	0.17140	3.00	34.77	Passed			
		1	0			21.54	4.20	1.63	24.11	0.25763	21.96	0.15704	3.00	34.77	Passed			
		1	5			21.65	4.20	1.63	24.22	0.26424	22.07	0.16106	3.00	34.77	Passed			
		3	0			21.92	4.20	1.63	24.49	0.28119	22.34	0.17140	3.00	34.77	Passed			
	16QAM	3	2			22.15	4.20	1.63	24.72	0.29648	22.57	0.18072	3.00	34.77	Passed			
		6	0			20.85	4.20	1.63	23.42	0.21979	21.27	0.13397	3.00	34.77	Passed			
		19193	1909.30			QPSK	1	0	22.88	4.30	1.64	25.54	0.35810	23.39	0.21827	3.00	34.77	Passed
							1	5	23.00	4.30	1.64	25.66	0.36813	23.51	0.22439	3.00	34.77	Passed
	3			0	22.89		4.30	1.64	25.55	0.35892	23.40	0.21878	3.00	34.77	Passed			
	3			2	22.88		4.30	1.64	25.54	0.35810	23.39	0.21827	3.00	34.77	Passed			
	16QAM			6	0	21.92	4.30	1.64	24.58	0.28708	22.43	0.17498	3.00	34.77	Passed			
				1	0	21.70	4.30	1.64	24.36	0.27290	22.21	0.16634	3.00	34.77	Passed			
				1	5	21.38	4.30	1.64	24.04	0.25351	21.89	0.15453	3.00	34.77	Passed			
				3	0	21.90	4.30	1.64	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed			
	16QAM			3	2	21.79	4.30	1.64	24.45	0.27861	22.30	0.16982	3.00	34.77	Passed			
				6	0	20.79	4.30	1.64	23.45	0.22131	21.30	0.13490	3.00	34.77	Passed			
				18615	1851.50	QPSK	1	0	22.96	4.10	1.62	25.44	0.34995	23.29	0.21330	3.00	34.77	Passed
							1	14	23.15	4.10	1.62	25.63	0.36559	23.48	0.22284	3.00	34.77	Passed
	8	0	22.12				4.10	1.62	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed			
	8	7	22.08				4.10	1.62	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed			
	16QAM	15	0			22.04	4.10	1.62	24.52	0.28314	22.37	0.17258	3.00	34.77	Passed			
		1	0			21.57	4.10	1.62	24.05	0.25410	21.90	0.15488	3.00	34.77	Passed			
1		14	22.06			4.10	1.62	24.54	0.28445	22.39	0.17338	3.00	34.77	Passed				
8		0	21.04			4.10	1.62	23.52	0.22491	21.37	0.13709	3.00	34.77	Passed				
16QAM	8	7	21.23			4.10	1.62	23.71	0.23496	21.56	0.14322	3.00	34.77	Passed				
	15	0	20.80			4.10	1.62	23.28	0.21281	21.13	0.12972	3.00	34.77	Passed				
	18900	1880.00	QPSK			1	0	23.11	4.20	1.63	25.68	0.36983	23.53	0.22542	3.00	34.77	Passed	
						1	14	22.88	4.20	1.63	25.45	0.35075	23.30	0.21380	3.00	34.77	Passed	
8				0	22.07	4.20	1.63	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed				
8				7	22.04	4.20	1.63	24.61	0.28907	22.46	0.17620	3.00	34.77	Passed				
16QAM			15	0	22.03	4.20	1.63	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed				
			1	0	21.42	4.20	1.63	23.99	0.25061	21.84	0.15276	3.00	34.77	Passed				
			1	14	21.81	4.20	1.63	24.38	0.27416	22.23	0.16711	3.00	34.77	Passed				
			8	0	20.76	4.20	1.63	23.33	0.21528	21.18	0.13122	3.00	34.77	Passed				
16QAM			8	7	20.85	4.20	1.63	23.42	0.21979	21.27	0.13397	3.00	34.77	Passed				
			15	0	20.86	4.20	1.63	23.43	0.22029	21.28	0.13428	3.00	34.77	Passed				
			19185	1908.50	QPSK	1	0	23.25	4.30	1.64	25.91	0.38994	23.76	0.23768	3.00	34.77	Passed	
						1	14	22.79	4.30	1.64	25.45	0.35075	23.30	0.21380	3.00	34.77	Passed	
8	0	22.00				4.30	1.64	24.66	0.29242	22.51	0.17824	3.00	34.77	Passed				
8	7	21.98				4.30	1.64	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed				
16QAM	15	0			21.94	4.30	1.64	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed				
	1	0			21.90	4.30	1.64	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed				
	1	14			21.50	4.30	1.64	24.16	0.26062	22.01	0.15885	3.00	34.77	Passed				
	8	0			21.00	4.30	1.64	23.66	0.23227	21.51	0.14158	3.00	34.77	Passed				
16QAM	8	7			20.72	4.30	1.64	23.38	0.21777	21.23	0.13274	3.00	34.77	Passed				
	15	0			20.98	4.30	1.64	23.64	0.23121	21.49	0.14093	3.00	34.77	Passed				

BW 5 MHz	18625	1852.50	QPSK	1	0	22.86	4.10	1.62	25.34	0.34198	23.19	0.20845	3.00	34.77	Passed
				1	24	22.99	4.10	1.62	25.47	0.35237	23.32	0.21478	3.00	34.77	Passed
				12	0	22.14	4.10	1.62	24.62	0.28973	22.47	0.17660	3.00	34.77	Passed
				12	11	22.10	4.10	1.62	24.58	0.28708	22.43	0.17498	3.00	34.77	Passed
				25	0	22.07	4.10	1.62	24.55	0.28510	22.40	0.17378	3.00	34.77	Passed
			16QAM	1	0	21.52	4.10	1.62	24.00	0.25119	21.85	0.15311	3.00	34.77	Passed
				1	24	21.90	4.10	1.62	24.38	0.27416	22.23	0.16711	3.00	34.77	Passed
				12	0	20.97	4.10	1.62	23.45	0.22131	21.30	0.13490	3.00	34.77	Passed
				12	11	21.00	4.10	1.62	23.48	0.22284	21.33	0.13583	3.00	34.77	Passed
				25	0	20.91	4.10	1.62	23.39	0.21827	21.24	0.13305	3.00	34.77	Passed
	18900	1880.00	QPSK	1	0	22.91	4.20	1.63	25.48	0.35318	23.33	0.21528	3.00	34.77	Passed
				1	24	22.84	4.20	1.63	25.41	0.34754	23.26	0.21184	3.00	34.77	Passed
				12	0	22.01	4.20	1.63	24.58	0.28708	22.43	0.17498	3.00	34.77	Passed
				12	11	22.03	4.20	1.63	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed
				25	0	22.04	4.20	1.63	24.61	0.28907	22.46	0.17620	3.00	34.77	Passed
			16QAM	1	0	21.53	4.20	1.63	24.10	0.25704	21.95	0.15668	3.00	34.77	Passed
				1	24	21.96	4.20	1.63	24.53	0.28379	22.38	0.17298	3.00	34.77	Passed
				12	0	20.90	4.20	1.63	23.47	0.22233	21.32	0.13552	3.00	34.77	Passed
				12	11	20.97	4.20	1.63	23.54	0.22594	21.39	0.13772	3.00	34.77	Passed
				25	0	21.07	4.20	1.63	23.64	0.23121	21.49	0.14093	3.00	34.77	Passed
	19175	1907.50	QPSK	1	0	22.82	4.30	1.64	25.48	0.35318	23.33	0.21528	3.00	34.77	Passed
				1	24	22.75	4.30	1.64	25.41	0.34754	23.26	0.21184	3.00	34.77	Passed
				12	0	21.97	4.30	1.64	24.63	0.29040	22.48	0.17701	3.00	34.77	Passed
				12	11	22.08	4.30	1.64	24.74	0.29785	22.59	0.18155	3.00	34.77	Passed
				25	0	21.97	4.30	1.64	24.63	0.29040	22.48	0.17701	3.00	34.77	Passed
			16QAM	1	0	21.99	4.30	1.64	24.65	0.29174	22.50	0.17783	3.00	34.77	Passed
				1	24	21.71	4.30	1.64	24.37	0.27353	22.22	0.16672	3.00	34.77	Passed
				12	0	20.90	4.30	1.64	23.56	0.22699	21.41	0.13836	3.00	34.77	Passed
				12	11	20.94	4.30	1.64	23.60	0.22909	21.45	0.13964	3.00	34.77	Passed
				25	0	21.01	4.30	1.64	23.67	0.23281	21.52	0.14191	3.00	34.77	Passed
BW 10 MHz	18650	1855.00	QPSK	1	0	22.99	4.10	1.62	25.47	0.35237	23.32	0.21478	3.00	34.77	Passed
				1	24	23.55	4.10	1.62	26.03	0.40087	23.88	0.24434	3.00	34.77	Passed
				1	49	23.39	4.10	1.62	25.87	0.38637	23.72	0.23550	3.00	34.77	Passed
				25	0	22.18	4.10	1.62	24.66	0.29242	22.51	0.17824	3.00	34.77	Passed
				25	24	22.16	4.10	1.62	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed
			16QAM	50	0	22.08	4.10	1.62	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed
				1	0	22.24	4.10	1.62	24.72	0.29648	22.57	0.18072	3.00	34.77	Passed
				1	24	22.20	4.10	1.62	24.68	0.29376	22.53	0.17906	3.00	34.77	Passed
				1	49	22.16	4.10	1.62	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed
				25	0	21.22	4.10	1.62	23.70	0.23442	21.55	0.14289	3.00	34.77	Passed
	18900	1880.00	QPSK	25	24	21.18	4.10	1.62	23.66	0.23227	21.51	0.14158	3.00	34.77	Passed
				50	0	21.09	4.10	1.62	23.57	0.22751	21.42	0.13868	3.00	34.77	Passed
			16QAM	1	0	23.11	4.20	1.63	25.68	0.36983	23.53	0.22542	3.00	34.77	Passed
				1	24	22.89	4.20	1.63	25.46	0.35156	23.31	0.21429	3.00	34.77	Passed
				1	49	23.04	4.20	1.63	25.61	0.36392	23.46	0.22182	3.00	34.77	Passed
				25	0	22.06	4.20	1.63	24.63	0.29040	22.48	0.17701	3.00	34.77	Passed
				25	24	22.03	4.20	1.63	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed
			16QAM	50	0	22.08	4.20	1.63	24.65	0.29174	22.50	0.17783	3.00	34.77	Passed
				1	0	22.12	4.20	1.63	24.69	0.29444	22.54	0.17947	3.00	34.77	Passed
				1	24	21.99	4.20	1.63	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed
				1	49	21.85	4.20	1.63	24.42	0.27669	22.27	0.16866	3.00	34.77	Passed
	19150	1905.00	QPSK	25	0	21.03	4.20	1.63	23.60	0.22909	21.45	0.13964	3.00	34.77	Passed
				25	24	21.05	4.20	1.63	23.62	0.23014	21.47	0.14028	3.00	34.77	Passed
				50	0	20.95	4.20	1.63	23.52	0.22491	21.37	0.13709	3.00	34.77	Passed
			16QAM	1	0	23.11	4.30	1.64	25.77	0.37757	23.62	0.23014	3.00	34.77	Passed
				1	24	23.19	4.30	1.64	25.85	0.38459	23.70	0.23442	3.00	34.77	Passed
				1	49	23.07	4.30	1.64	25.73	0.37411	23.58	0.22803	3.00	34.77	Passed
				25	0	22.04	4.30	1.64	24.70	0.29512	22.55	0.17989	3.00	34.77	Passed
				25	24	22.02	4.30	1.64	24.68	0.29376	22.53	0.17906	3.00	34.77	Passed
			16QAM	50	0	22.03	4.30	1.64	24.69	0.29444	22.54	0.17947	3.00	34.77	Passed
				1	0	21.95	4.30	1.64	24.61	0.28907	22.46	0.17620	3.00	34.77	Passed
				1	24	22.34	4.30	1.64	25.00	0.31623	22.85	0.19275	3.00	34.77	Passed
				1	49	21.83	4.30	1.64	24.49	0.28119	22.34	0.17140	3.00	34.77	Passed
				25	0	20.97	4.30	1.64	23.63	0.23067	21.48	0.14060	3.00	34.77	Passed
				25	24	20.96	4.30	1.64	23.62	0.23014	21.47	0.14028	3.00	34.77	Passed
				50	0	21.05	4.30	1.64	23.71	0.23496	21.56	0.14322	3.00	34.77	Passed

BW 15 MHz	18675	1857.50	QPSK	1	0	23.04	4.10	1.62	25.52	0.35645	23.37	0.21727	3.00	34.77	Passed		
				1	27	23.43	4.10	1.62	25.91	0.38994	23.76	0.23768	3.00	34.77	Passed		
				1	74	23.38	4.10	1.62	25.86	0.38548	23.71	0.23496	3.00	34.77	Passed		
				27	0	22.08	4.10	1.62	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed		
				27	74	22.21	4.10	1.62	24.69	0.29444	22.54	0.17947	3.00	34.77	Passed		
				75	0	22.20	4.10	1.62	24.68	0.29376	22.53	0.17906	3.00	34.77	Passed		
			16QAM	1	0	22.23	4.10	1.62	24.71	0.29580	22.56	0.18030	3.00	34.77	Passed		
				1	27	22.07	4.10	1.62	24.55	0.28510	22.40	0.17378	3.00	34.77	Passed		
				1	74	22.54	4.10	1.62	25.02	0.31769	22.87	0.19364	3.00	34.77	Passed		
				27	0	21.04	4.10	1.62	23.52	0.22491	21.37	0.13709	3.00	34.77	Passed		
				27	74	21.16	4.10	1.62	23.64	0.23121	21.49	0.14093	3.00	34.77	Passed		
				75	0	21.17	4.10	1.62	23.65	0.23174	21.50	0.14125	3.00	34.77	Passed		
	18900	1880.00	QPSK	1	0	23.07	4.20	1.63	25.64	0.36644	23.49	0.22336	3.00	34.77	Passed		
				1	27	23.27	4.20	1.63	25.84	0.38371	23.69	0.23388	3.00	34.77	Passed		
				1	74	22.93	4.20	1.63	25.50	0.35481	23.35	0.21627	3.00	34.77	Passed		
				27	0	22.11	4.20	1.63	24.68	0.29376	22.53	0.17906	3.00	34.77	Passed		
				27	74	22.12	4.20	1.63	24.69	0.29444	22.54	0.17947	3.00	34.77	Passed		
				75	0	22.13	4.20	1.63	24.70	0.29512	22.55	0.17989	3.00	34.77	Passed		
			16QAM	1	0	22.38	4.20	1.63	24.95	0.31261	22.80	0.19055	3.00	34.77	Passed		
				1	27	22.22	4.20	1.63	24.79	0.30130	22.64	0.18365	3.00	34.77	Passed		
				1	74	22.03	4.20	1.63	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed		
				27	0	21.13	4.20	1.63	23.70	0.23442	21.55	0.14289	3.00	34.77	Passed		
				27	74	21.06	4.20	1.63	23.63	0.23067	21.48	0.14060	3.00	34.77	Passed		
				75	0	21.04	4.20	1.63	23.61	0.22961	21.46	0.13996	3.00	34.77	Passed		
	19125	1902.50	QPSK	1	0	22.79	4.30	1.64	25.45	0.35075	23.30	0.21380	3.00	34.77	Passed		
				1	27	23.21	4.30	1.64	25.87	0.38637	23.72	0.23550	3.00	34.77	Passed		
				1	74	23.10	4.30	1.64	25.76	0.37670	23.61	0.22961	3.00	34.77	Passed		
				27	0	22.01	4.30	1.64	24.67	0.29309	22.52	0.17865	3.00	34.77	Passed		
				27	74	22.08	4.30	1.64	24.74	0.29785	22.59	0.18155	3.00	34.77	Passed		
				75	0	22.06	4.30	1.64	24.72	0.29648	22.57	0.18072	3.00	34.77	Passed		
			16QAM	1	0	22.23	4.30	1.64	24.89	0.30832	22.74	0.18793	3.00	34.77	Passed		
				1	27	22.25	4.30	1.64	24.91	0.30974	22.76	0.18880	3.00	34.77	Passed		
				1	74	21.84	4.30	1.64	24.50	0.28184	22.35	0.17179	3.00	34.77	Passed		
				27	0	20.96	4.30	1.64	23.62	0.23014	21.47	0.14028	3.00	34.77	Passed		
				27	74	20.94	4.30	1.64	23.60	0.22909	21.45	0.13964	3.00	34.77	Passed		
				75	0	20.96	4.30	1.64	23.62	0.23014	21.47	0.14028	3.00	34.77	Passed		
	BW 20 MHz	18700	1860.00	QPSK	1	0	23.15	4.10	1.62	25.63	0.36559	23.48	0.22284	3.00	34.77	Passed	
					1	49	23.12	4.10	1.62	25.60	0.36308	23.45	0.22131	3.00	34.77	Passed	
					1	99	23.28	4.10	1.62	25.76	0.37670	23.61	0.22961	3.00	34.77	Passed	
					50	0	22.16	4.10	1.62	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed	
					50	49	22.39	4.10	1.62	24.87	0.30690	22.72	0.18707	3.00	34.77	Passed	
					100	0	22.28	4.10	1.62	24.76	0.29923	22.61	0.18239	3.00	34.77	Passed	
					16QAM	1	0	21.72	4.10	1.62	24.20	0.26303	22.05	0.16032	3.00	34.77	Passed
						1	49	21.80	4.10	1.62	24.28	0.26792	22.13	0.16331	3.00	34.77	Passed
						1	99	22.37	4.10	1.62	24.85	0.30549	22.70	0.18621	3.00	34.77	Passed
						50	0	21.11	4.10	1.62	23.59	0.22856	21.44	0.13932	3.00	34.77	Passed
						50	49	21.32	4.10	1.62	23.80	0.23988	21.65	0.14622	3.00	34.77	Passed
						100	0	21.23	4.10	1.62	23.71	0.23496	21.56	0.14322	3.00	34.77	Passed
18900				1800.00	QPSK	1	0	23.34	4.20	1.63	25.91	0.38994	23.76	0.23768	3.00	34.77	Passed
						1	49	23.26	4.20	1.63	25.83	0.38282	23.68	0.23335	3.00	34.77	Passed
						1	99	23.18	4.20	1.63	25.75	0.37584	23.60	0.22909	3.00	34.77	Passed
						50	0	22.28	4.20	1.63	24.85	0.30549	22.70	0.18621	3.00	34.77	Passed
						50	49	22.14	4.20	1.63	24.71	0.29580	22.56	0.18030	3.00	34.77	Passed
						100	0	22.10	4.20	1.63	24.67	0.29309	22.52	0.17865	3.00	34.77	Passed
					16QAM	1	0	22.02	4.20	1.63	24.59	0.28774	22.44	0.17539	3.00	34.77	Passed
						1	49	21.89	4.20	1.63	24.46	0.27925	22.31	0.17022	3.00	34.77	Passed
						1	99	21.56	4.20	1.63	24.13	0.25882	21.98	0.15776	3.00	34.77	Passed
						50	0	21.10	4.20	1.63	23.67	0.23281	21.52	0.14191	3.00	34.77	Passed
						50	49	20.99	4.20	1.63	23.56	0.22699	21.41	0.13836	3.00	34.77	Passed
						100	0	21.02	4.20	1.63	23.59	0.22856	21.44	0.13932	3.00	34.77	Passed
19100		1900.00	QPSK	1	0	22.72	4.30	1.64	25.38	0.34514	23.23	0.21038	3.00	34.77	Passed		
				1	49	22.88	4.30	1.64	25.54	0.35810	23.39	0.21827	3.00	34.77	Passed		
				1	99	23.15	4.30	1.64	25.81	0.38107	23.66	0.23227	3.00	34.77	Passed		
				50	0	22.00	4.30	1.64	24.66	0.29242	22.51	0.17824	3.00	34.77	Passed		
				50	49	22.16	4.30	1.64	24.82	0.30339	22.67	0.18493	3.00	34.77	Passed		
				100	0	22.02	4.30	1.64	24.68	0.29376	22.53	0.17906	3.00	34.77	Passed		
			16QAM	1	0	21.80	4.30	1.64	24.46	0.27925	22.31	0.17022	3.00	34.77	Passed		
				1	49	21.84	4.30	1.64	24.50	0.28184	22.35	0.17179	3.00	34.77	Passed		
				1	99	21.74	4.30	1.64	24.40	0.27542	22.25	0.16788	3.00	34.77	Passed		
				50	0	21.10	4.30	1.64	23.76	0.23768	21.61	0.14488	3.00	34.77	Passed		
				50	49	21.12	4.30	1.64	23.78	0.23878	21.63	0.14555	3.00	34.77	Passed		
				100	0	21.00	4.30	1.64	23.66	0.23227	21.51	0.14158	3.00	34.77	Passed		
EIRP= RMS Power at Antenna Port + Maximum declared Antenna Gain - Path loss to Antenna Connector - Path loss in Antenna Cable																	
ERP = EIRP - 2.15																	

LTE FDD Band 4																	
	Channel Nr.	ARFCN-Frequency [MHz]	Modulation	RB	Start RB	RMS Power at Antenna Port [dBm]	Maximum declared Antenna Gain [dBi]	Path loss to Antenna Connector	EIRP [dBm]	EIRP [W]	ERP [dBm]	ERP [W]	FCC Limit [W]; ERP	FCC Limit [dBm]; ERP	Verdict		
BW 1.4 MHz	19957	1710.70	QPSK	1	0	22.97	3.80	1.50	25.27	0.33651	23.12	0.20512	3.00	34.77	Passed		
				1	5	23.27	3.80	1.50	25.57	0.36058	23.42	0.21979	3.00	34.77	Passed		
				3	0	23.07	3.80	1.50	25.37	0.34435	23.22	0.20989	3.00	34.77	Passed		
				3	2	22.98	3.80	1.50	25.28	0.33729	23.13	0.20559	3.00	34.77	Passed		
			6	0	22.21	3.80	1.50	24.51	0.28249	22.36	0.17219	3.00	34.77	Passed			
			16QAM	1	0	21.54	3.80	1.50	23.84	0.24210	21.69	0.14757	3.00	34.77	Passed		
				1	5	21.90	3.80	1.50	24.20	0.26303	22.05	0.16032	3.00	34.77	Passed		
				3	0	22.02	3.80	1.50	24.32	0.27040	22.17	0.16482	3.00	34.77	Passed		
				3	2	22.18	3.80	1.50	24.48	0.28054	22.33	0.17100	3.00	34.77	Passed		
			6	0	21.06	3.80	1.50	23.36	0.21677	21.21	0.13213	3.00	34.77	Passed			
			20175	1732.50	QPSK	1	0	22.74	4.10	1.52	25.32	0.34041	23.17	0.20749	3.00	34.77	Passed
						1	5	22.90	4.10	1.52	25.48	0.35318	23.33	0.21528	3.00	34.77	Passed
	3	0				22.91	4.10	1.52	25.49	0.35400	23.34	0.21577	3.00	34.77	Passed		
	3	2				22.98	4.10	1.52	25.56	0.35975	23.41	0.21928	3.00	34.77	Passed		
	6	0			22.05	4.10	1.52	24.63	0.29040	22.48	0.17701	3.00	34.77	Passed			
	16QAM	1			0	21.90	4.10	1.52	24.48	0.28054	22.33	0.17100	3.00	34.77	Passed		
		1			5	22.00	4.10	1.52	24.58	0.28708	22.43	0.17498	3.00	34.77	Passed		
		3			0	22.07	4.10	1.52	24.65	0.29174	22.50	0.17783	3.00	34.77	Passed		
		3			2	21.80	4.10	1.52	24.38	0.27416	22.23	0.16711	3.00	34.77	Passed		
	6	0			21.05	4.10	1.52	23.63	0.23067	21.48	0.14060	3.00	34.77	Passed			
	20393	1754.30			QPSK	1	0	23.28	4.20	1.55	25.93	0.39174	23.78	0.23878	3.00	34.77	Passed
						1	5	22.74	4.20	1.55	25.39	0.34594	23.24	0.21086	3.00	34.77	Passed
			3	0		22.93	4.20	1.55	25.58	0.36141	23.43	0.22029	3.00	34.77	Passed		
			3	2		22.90	4.20	1.55	25.55	0.35892	23.40	0.21878	3.00	34.77	Passed		
			6	0	21.99	4.20	1.55	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed			
			16QAM	1	0	21.90	4.20	1.55	24.55	0.28510	22.40	0.17378	3.00	34.77	Passed		
				1	5	21.96	4.20	1.55	24.61	0.28907	22.46	0.17620	3.00	34.77	Passed		
				3	0	21.91	4.20	1.55	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed		
				3	2	21.81	4.20	1.55	24.46	0.27925	22.31	0.17022	3.00	34.77	Passed		
			6	0	21.23	4.20	1.55	23.88	0.24434	21.73	0.14894	3.00	34.77	Passed			
BW 3 MHz			19965	1711.50	QPSK	1	0	23.03	3.80	1.50	25.33	0.34119	23.18	0.20797	3.00	34.77	Passed
						1	14	23.27	3.80	1.50	25.57	0.36058	23.42	0.21979	3.00	34.77	Passed
	8	0				22.18	3.80	1.50	24.48	0.28054	22.33	0.17100	3.00	34.77	Passed		
	8	7				22.23	3.80	1.50	24.53	0.28379	22.38	0.17298	3.00	34.77	Passed		
	15	0			22.13	3.80	1.50	24.43	0.27733	22.28	0.16904	3.00	34.77	Passed			
	16QAM	1			0	21.80	3.80	1.50	24.10	0.25704	21.95	0.15668	3.00	34.77	Passed		
		1			14	22.04	3.80	1.50	24.34	0.27164	22.19	0.16558	3.00	34.77	Passed		
		8			0	21.11	3.80	1.50	23.41	0.21928	21.26	0.13366	3.00	34.77	Passed		
		8			7	21.11	3.80	1.50	23.41	0.21928	21.26	0.13366	3.00	34.77	Passed		
	15	0			21.07	3.80	1.50	23.37	0.21727	21.22	0.13243	3.00	34.77	Passed			
	20175	1732.50			QPSK	1	0	22.82	4.10	1.52	25.40	0.34674	23.25	0.21135	3.00	34.77	Passed
						1	14	22.87	4.10	1.52	25.45	0.35075	23.30	0.21380	3.00	34.77	Passed
			8	0		22.15	4.10	1.52	24.73	0.29717	22.58	0.18113	3.00	34.77	Passed		
			8	7		22.15	4.10	1.52	24.73	0.29717	22.58	0.18113	3.00	34.77	Passed		
			15	0	22.02	4.10	1.52	24.60	0.28840	22.45	0.17579	3.00	34.77	Passed			
			16QAM	1	0	21.83	4.10	1.52	24.41	0.27606	22.26	0.16827	3.00	34.77	Passed		
				1	14	21.93	4.10	1.52	24.51	0.28249	22.36	0.17219	3.00	34.77	Passed		
				8	0	21.08	4.10	1.52	23.66	0.23227	21.51	0.14158	3.00	34.77	Passed		
				8	7	21.14	4.10	1.52	23.72	0.23550	21.57	0.14355	3.00	34.77	Passed		
			15	0	21.11	4.10	1.52	23.69	0.23388	21.54	0.14256	3.00	34.77	Passed			
			20385	1753.50	QPSK	1	0	23.02	4.20	1.55	25.67	0.36898	23.52	0.22491	3.00	34.77	Passed
						1	14	22.95	4.20	1.55	25.60	0.36308	23.45	0.22131	3.00	34.77	Passed
	8	0				22.00	4.20	1.55	24.65	0.29174	22.50	0.17783	3.00	34.77	Passed		
	8	7				22.15	4.20	1.55	24.80	0.30200	22.65	0.18408	3.00	34.77	Passed		
	15	0			22.04	4.20	1.55	24.69	0.29444	22.54	0.17947	3.00	34.77	Passed			
	16QAM	1			0	21.62	4.20	1.55	24.27	0.26730	22.12	0.16293	3.00	34.77	Passed		
		1			14	21.49	4.20	1.55	24.14	0.25942	21.99	0.15812	3.00	34.77	Passed		
		8			0	20.91	4.20	1.55	23.56	0.22699	21.41	0.13836	3.00	34.77	Passed		
		8			7	20.91	4.20	1.55	23.56	0.22699	21.41	0.13836	3.00	34.77	Passed		
	15	0			21.11	4.20	1.55	23.76	0.23768	21.61	0.14488	3.00	34.77	Passed			

BW 5 MHz	19975	1712.50	QPSK	1	0	23.05	3.80	1.50	25.35	0.34277	23.20	0.20893	3.00	34.77	Passed
				1	24	22.92	3.80	1.50	25.22	0.33266	23.07	0.20277	3.00	34.77	Passed
				12	0	22.10	3.80	1.50	24.40	0.27542	22.25	0.16788	3.00	34.77	Passed
				12	11	22.18	3.80	1.50	24.48	0.28054	22.33	0.17100	3.00	34.77	Passed
			16QAM	25	0	22.14	3.80	1.50	24.44	0.27797	22.29	0.16943	3.00	34.77	Passed
				1	0	21.78	3.80	1.50	24.08	0.25586	21.93	0.15596	3.00	34.77	Passed
				1	24	21.73	3.80	1.50	24.03	0.25293	21.88	0.15417	3.00	34.77	Passed
				12	0	21.02	3.80	1.50	23.32	0.21478	21.17	0.13092	3.00	34.77	Passed
	20175	1732.50	QPSK	12	11	21.25	3.80	1.50	23.55	0.22646	21.40	0.13804	3.00	34.77	Passed
				25	0	21.09	3.80	1.50	23.39	0.21827	21.24	0.13305	3.00	34.77	Passed
			16QAM	1	0	22.87	4.10	1.52	25.45	0.35075	23.30	0.21380	3.00	34.77	Passed
				1	24	22.89	4.10	1.52	25.47	0.35237	23.32	0.21478	3.00	34.77	Passed
				12	0	21.98	4.10	1.52	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed
				12	11	21.99	4.10	1.52	24.57	0.28642	22.42	0.17458	3.00	34.77	Passed
			16QAM	25	0	22.04	4.10	1.52	24.62	0.28973	22.47	0.17660	3.00	34.77	Passed
				1	0	21.67	4.10	1.52	24.25	0.26607	22.10	0.16218	3.00	34.77	Passed
	20375	1752.50	QPSK	1	24	21.74	4.10	1.52	24.32	0.27040	22.17	0.16482	3.00	34.77	Passed
				12	0	21.06	4.10	1.52	23.64	0.23121	21.49	0.14093	3.00	34.77	Passed
				12	11	21.07	4.10	1.52	23.65	0.23174	21.50	0.14125	3.00	34.77	Passed
				25	0	21.04	4.10	1.52	23.62	0.23014	21.47	0.14028	3.00	34.77	Passed
			16QAM	1	0	22.92	4.20	1.55	25.57	0.36058	23.42	0.21979	3.00	34.77	Passed
				1	24	23.23	4.20	1.55	25.88	0.38726	23.73	0.23605	3.00	34.77	Passed
				12	0	22.09	4.20	1.55	24.74	0.29785	22.59	0.18155	3.00	34.77	Passed
				12	11	22.10	4.20	1.55	24.75	0.29854	22.60	0.18197	3.00	34.77	Passed
BW 10 MHz	20000	1715.00	QPSK	25	0	22.15	4.20	1.55	24.80	0.30200	22.65	0.18408	3.00	34.77	Passed
				1	0	21.94	4.20	1.55	24.59	0.28774	22.44	0.17539	3.00	34.77	Passed
				1	24	21.70	4.20	1.55	24.35	0.27227	22.20	0.16596	3.00	34.77	Passed
				12	0	21.12	4.20	1.55	23.77	0.23823	21.62	0.14521	3.00	34.77	Passed
			16QAM	12	11	21.13	4.20	1.55	23.78	0.23878	21.63	0.14555	3.00	34.77	Passed
				25	0	21.24	4.20	1.55	23.89	0.24491	21.74	0.14928	3.00	34.77	Passed
	20175	1732.50	QPSK	1	0	22.90	3.80	1.50	25.20	0.33113	23.05	0.20184	3.00	34.77	Passed
				1	24	23.26	3.80	1.50	25.56	0.35975	23.41	0.21928	3.00	34.77	Passed
				1	49	23.08	3.80	1.50	25.38	0.34514	23.23	0.21038	3.00	34.77	Passed
				25	0	22.14	3.80	1.50	24.44	0.27797	22.29	0.16943	3.00	34.77	Passed
			16QAM	25	24	22.06	3.80	1.50	24.36	0.27290	22.21	0.16634	3.00	34.77	Passed
				50	0	22.10	3.80	1.50	24.40	0.27542	22.25	0.16788	3.00	34.77	Passed
				1	0	22.16	3.80	1.50	24.46	0.27925	22.31	0.17022	3.00	34.77	Passed
				1	24	21.83	3.80	1.50	24.13	0.25882	21.98	0.15776	3.00	34.77	Passed
	20350	1750.00	QPSK	1	49	21.33	3.80	1.50	23.63	0.23067	21.48	0.14060	3.00	34.77	Passed
				25	0	21.10	3.80	1.50	23.40	0.21878	21.25	0.13335	3.00	34.77	Passed
				25	24	21.14	3.80	1.50	23.44	0.22080	21.29	0.13459	3.00	34.77	Passed
				50	0	21.19	3.80	1.50	23.49	0.22336	21.34	0.13614	3.00	34.77	Passed
			16QAM	1	0	23.03	4.10	1.52	25.61	0.36392	23.46	0.22182	3.00	34.77	Passed
				1	24	22.86	4.10	1.52	25.44	0.34995	23.29	0.21330	3.00	34.77	Passed
				1	49	23.00	4.10	1.52	25.58	0.36141	23.43	0.22029	3.00	34.77	Passed
				25	0	22.08	4.10	1.52	24.66	0.29242	22.51	0.17824	3.00	34.77	Passed
BW 10 MHz	20175	1732.50	QPSK	25	24	22.03	4.10	1.52	24.61	0.28907	22.46	0.17620	3.00	34.77	Passed
				50	0	22.06	4.10	1.52	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed
			16QAM	1	0	22.12	4.10	1.52	24.70	0.29512	22.55	0.17989	3.00	34.77	Passed
				1	24	22.01	4.10	1.52	24.59	0.28774	22.44	0.17539	3.00	34.77	Passed
				1	49	22.10	4.10	1.52	24.68	0.29376	22.53	0.17906	3.00	34.77	Passed
				25	0	21.02	4.10	1.52	23.60	0.22909	21.45	0.13964	3.00	34.77	Passed
			16QAM	25	24	20.92	4.10	1.52	23.50	0.22387	21.35	0.13646	3.00	34.77	Passed
				50	0	21.08	4.10	1.52	23.66	0.23227	21.51	0.14158	3.00	34.77	Passed
	20350	1750.00	QPSK	1	0	23.20	4.20	1.55	25.85	0.38459	23.70	0.23442	3.00	34.77	Passed
				1	24	23.41	4.20	1.55	26.06	0.40365	23.91	0.24604	3.00	34.77	Passed
				1	49	23.14	4.20	1.55	25.79	0.37931	23.64	0.23121	3.00	34.77	Passed
				25	0	22.15	4.20	1.55	24.80	0.30200	22.65	0.18408	3.00	34.77	Passed
			16QAM	25	24	22.11	4.20	1.55	24.76	0.29923	22.61	0.18239	3.00	34.77	Passed
				50	0	22.10	4.20	1.55	24.75	0.29854	22.60	0.18197	3.00	34.77	Passed
				1	0	21.46	4.20	1.55	24.11	0.25763	21.96	0.15704	3.00	34.77	Passed
				1	24	21.72	4.20	1.55	24.37	0.27353	22.22	0.16672	3.00	34.77	Passed
	20375	1752.50	QPSK	1	49	21.65	4.20	1.55	24.30	0.26915	22.15	0.16406	3.00	34.77	Passed
				25	0	21.12	4.20	1.55	23.77	0.23823	21.62	0.14521	3.00	34.77	Passed
				25	24	21.05	4.20	1.55	23.70	0.23442	21.55	0.14289	3.00	34.77	Passed
				50	0	21.17	4.20	1.55	23.82	0.24099	21.67	0.14689	3.00	34.77	Passed

BW 15 MHz	20025	1717.50	QPSK	1	0	23.09	3.80	1.50	25.39	0.34594	23.24	0.21086	3.00	34.77	Passed	
				1	27	23.19	3.80	1.50	25.49	0.35400	23.34	0.21577	3.00	34.77	Passed	
				1	74	23.16	3.80	1.50	25.46	0.35156	23.31	0.21429	3.00	34.77	Passed	
				27	0	22.16	3.80	1.50	24.46	0.27925	22.31	0.17022	3.00	34.77	Passed	
				27	74	22.02	3.80	1.50	24.32	0.27040	22.17	0.16482	3.00	34.77	Passed	
				75	0	22.17	3.80	1.50	24.47	0.27990	22.32	0.17061	3.00	34.77	Passed	
			16QAM	1	0	21.74	3.80	1.50	24.04	0.25351	21.89	0.15453	3.00	34.77	Passed	
				1	27	21.83	3.80	1.50	24.13	0.25882	21.98	0.15776	3.00	34.77	Passed	
				1	74	22.40	3.80	1.50	24.70	0.29512	22.55	0.17989	3.00	34.77	Passed	
				27	0	21.13	3.80	1.50	23.43	0.22029	21.28	0.13428	3.00	34.77	Passed	
				27	74	21.10	3.80	1.50	23.40	0.21878	21.25	0.13335	3.00	34.77	Passed	
				75	0	21.17	3.80	1.50	23.47	0.22233	21.32	0.13552	3.00	34.77	Passed	
	20175	1732.50	QPSK	1	0	23.07	4.10	1.52	25.65	0.36728	23.50	0.22387	3.00	34.77	Passed	
				1	27	23.22	4.10	1.52	25.80	0.38019	23.65	0.23174	3.00	34.77	Passed	
				1	74	23.14	4.10	1.52	25.72	0.37325	23.57	0.22751	3.00	34.77	Passed	
				27	0	22.06	4.10	1.52	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed	
				27	74	22.05	4.10	1.52	24.63	0.29040	22.48	0.17701	3.00	34.77	Passed	
				75	0	22.07	4.10	1.52	24.65	0.29174	22.50	0.17783	3.00	34.77	Passed	
			16QAM	1	0	22.06	4.10	1.52	24.64	0.29107	22.49	0.17742	3.00	34.77	Passed	
				1	27	22.01	4.10	1.52	24.59	0.28774	22.44	0.17539	3.00	34.77	Passed	
				1	74	22.36	4.10	1.52	24.94	0.31189	22.79	0.19011	3.00	34.77	Passed	
				27	0	21.00	4.10	1.52	23.58	0.22803	21.43	0.13900	3.00	34.77	Passed	
				27	74	21.15	4.10	1.52	23.73	0.23605	21.58	0.14388	3.00	34.77	Passed	
				75	0	21.11	4.10	1.52	23.69	0.23388	21.54	0.14256	3.00	34.77	Passed	
	20325	1747.50	QPSK	1	0	23.10	4.20	1.55	25.75	0.37584	23.60	0.22909	3.00	34.77	Passed	
				1	27	23.57	4.20	1.55	26.22	0.41879	24.07	0.25527	3.00	34.77	Passed	
				1	74	23.34	4.20	1.55	25.99	0.39719	23.84	0.24210	3.00	34.77	Passed	
				27	0	22.16	4.20	1.55	24.81	0.30269	22.66	0.18450	3.00	34.77	Passed	
				27	74	22.12	4.20	1.55	24.77	0.29992	22.62	0.18281	3.00	34.77	Passed	
				75	0	22.17	4.20	1.55	24.82	0.30339	22.67	0.18493	3.00	34.77	Passed	
			16QAM	1	0	22.20	4.20	1.55	24.85	0.30549	22.70	0.18621	3.00	34.77	Passed	
				1	27	22.51	4.20	1.55	25.16	0.32810	23.01	0.19999	3.00	34.77	Passed	
				1	74	22.34	4.20	1.55	24.99	0.31550	22.84	0.19231	3.00	34.77	Passed	
				27	0	21.12	4.20	1.55	23.77	0.23823	21.62	0.14521	3.00	34.77	Passed	
				27	74	21.22	4.20	1.55	23.87	0.24378	21.72	0.14859	3.00	34.77	Passed	
				75	0	21.17	4.20	1.55	23.82	0.24099	21.67	0.14689	3.00	34.77	Passed	
	BW 20 MHz	20050	1720.00	QPSK	1	0	23.18	3.80	1.50	25.48	0.35318	23.33	0.21528	3.00	34.77	Passed
					1	49	22.99	3.80	1.50	25.29	0.33806	23.14	0.20606	3.00	34.77	Passed
					1	99	22.97	3.80	1.50	25.27	0.33651	23.12	0.20512	3.00	34.77	Passed
					50	0	22.19	3.80	1.50	24.49	0.28119	22.34	0.17140	3.00	34.77	Passed
					50	49	22.21	3.80	1.50	24.51	0.28249	22.36	0.17219	3.00	34.77	Passed
					100	0	22.14	3.80	1.50	24.44	0.27797	22.29	0.16943	3.00	34.77	Passed
				16QAM	1	0	22.06	3.80	1.50	24.36	0.27290	22.21	0.16634	3.00	34.77	Passed
					1	49	22.09	3.80	1.50	24.39	0.27479	22.24	0.16749	3.00	34.77	Passed
					1	99	21.99	3.80	1.50	24.29	0.26853	22.14	0.16368	3.00	34.77	Passed
					50	0	21.16	3.80	1.50	23.46	0.22182	21.31	0.13521	3.00	34.77	Passed
					50	49	21.05	3.80	1.50	23.35	0.21627	21.20	0.13183	3.00	34.77	Passed
					100	0	21.13	3.80	1.50	23.43	0.22029	21.28	0.13428	3.00	34.77	Passed
20175		1732.50	QPSK	1	0	23.38	4.10	1.52	25.96	0.39446	23.81	0.24044	3.00	34.77	Passed	
				1	49	23.29	4.10	1.52	25.87	0.38637	23.72	0.23550	3.00	34.77	Passed	
				1	99	23.20	4.10	1.52	25.78	0.37844	23.63	0.23067	3.00	34.77	Passed	
				50	0	22.05	4.10	1.52	24.63	0.29040	22.48	0.17701	3.00	34.77	Passed	
				50	49	22.13	4.10	1.52	24.71	0.29580	22.56	0.18030	3.00	34.77	Passed	
				100	0	22.09	4.10	1.52	24.67	0.29309	22.52	0.17865	3.00	34.77	Passed	
			16QAM	1	0	21.83	4.10	1.52	24.41	0.27606	22.26	0.16827	3.00	34.77	Passed	
				1	49	21.76	4.10	1.52	24.34	0.27164	22.19	0.16558	3.00	34.77	Passed	
				1	99	22.24	4.10	1.52	24.82	0.30339	22.67	0.18493	3.00	34.77	Passed	
				50	0	21.03	4.10	1.52	23.61	0.22961	21.46	0.13996	3.00	34.77	Passed	
				50	49	21.06	4.10	1.52	23.64	0.23121	21.49	0.14093	3.00	34.77	Passed	
				100	0	21.04	4.10	1.52	23.62	0.23014	21.47	0.14028	3.00	34.77	Passed	
20300		1745.00	QPSK	1	0	23.09	4.20	1.55	25.74	0.37497	23.59	0.22856	3.00	34.77	Passed	
				1	49	22.98	4.20	1.55	25.63	0.36559	23.48	0.22284	3.00	34.77	Passed	
				1	99	23.13	4.20	1.55	25.78	0.37844	23.63	0.23067	3.00	34.77	Passed	
				50	0	22.24	4.20	1.55	24.89	0.30832	22.74	0.18793	3.00	34.77	Passed	
				50	49	22.16	4.20	1.55	24.81	0.30269	22.66	0.18450	3.00	34.77	Passed	
				100	0	22.27	4.20	1.55	24.92	0.31046	22.77	0.18923	3.00	34.77	Passed	
			16QAM	1	0	21.86	4.20	1.55	24.51	0.28249	22.36	0.17219	3.00	34.77	Passed	
				1	49	21.91	4.20	1.55	24.56	0.28576	22.41	0.17418	3.00	34.77	Passed	
				1	99	21.72	4.20	1.55	24.37	0.27353	22.22	0.16672	3.00	34.77	Passed	
				50	0	21.29	4.20	1.55	23.94	0.24774	21.79	0.15101	3.00	34.77	Passed	
				50	49	21.16	4.20	1.55	23.81	0.24044	21.66	0.14655	3.00	34.77	Passed	
				100	0	21.25	4.20	1.55	23.90	0.24547	21.75	0.14962	3.00	34.77	Passed	
EIRP= RMS Power at Antenna Port + Maximum declared Antenna Gain - Path loss to Antenna Connector - Path loss in Antenna Cable																
ERP = EIRP - 2.15																

LTE FDD Band 5															
	Channel Nr.	ARFCN-Frequency [MHz]	Modulation	RB	Start RB	RMS Power at Antenna Port [dBm]	Maximum declared Antenna Gain [dBi]	Path loss to Antenna Connector	EIRP [dBm]	EIRP [W]	ERP [dBm]	ERP [W]	FCC Limit [W]; ERP	FCC Limit [dBm]; ERP	Verdict
BW 1.4 MHz	20407	824.70	QPSK	1	0	23.41	0.20	1.02	22.59	0.18155	20.44	0.11066	3.00	34.77	Passed
				1	5	23.36	0.20	1.02	22.54	0.17947	20.39	0.10940	3.00	34.77	Passed
				3	0	23.39	0.20	1.02	22.57	0.18072	20.42	0.11015	3.00	34.77	Passed
				3	2	23.31	0.20	1.02	22.49	0.17742	20.34	0.10814	3.00	34.77	Passed
			16QAM	6	0	22.50	0.20	1.02	21.68	0.14723	19.53	0.08974	3.00	34.77	Passed
				1	0	22.15	0.20	1.02	21.33	0.13583	19.18	0.08279	3.00	34.77	Passed
				1	5	22.32	0.20	1.02	21.50	0.14125	19.35	0.08610	3.00	34.77	Passed
				3	0	22.56	0.20	1.02	21.74	0.14928	19.59	0.09099	3.00	34.77	Passed
	20525	836.50	QPSK	3	2	22.51	0.20	1.02	21.69	0.14757	19.54	0.08995	3.00	34.77	Passed
				6	0	21.42	0.20	1.02	20.60	0.11482	18.45	0.06998	3.00	34.77	Passed
			16QAM	1	0	23.25	0.10	1.10	22.25	0.16788	20.10	0.10233	3.00	34.77	Passed
				1	5	23.18	0.10	1.10	22.18	0.16520	20.03	0.10069	3.00	34.77	Passed
				3	0	23.20	0.10	1.10	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed
				3	2	23.17	0.10	1.10	22.17	0.16482	20.02	0.10046	3.00	34.77	Passed
			16QAM	6	0	22.23	0.10	1.10	21.23	0.13274	19.08	0.08091	3.00	34.77	Passed
				1	0	22.10	0.10	1.10	21.10	0.12882	18.95	0.07852	3.00	34.77	Passed
	20643	848.30	QPSK	1	5	21.98	0.10	1.10	20.98	0.12531	18.83	0.07638	3.00	34.77	Passed
				3	0	22.22	0.10	1.10	21.22	0.13243	19.07	0.08072	3.00	34.77	Passed
				3	2	22.13	0.10	1.10	21.13	0.12972	18.98	0.07907	3.00	34.77	Passed
				6	0	21.09	0.10	1.10	20.09	0.10209	17.94	0.06223	3.00	34.77	Passed
			16QAM	1	0	23.22	0.00	1.20	22.02	0.15922	19.87	0.09705	3.00	34.77	Passed
				1	5	23.08	0.00	1.20	21.88	0.15417	19.73	0.09397	3.00	34.77	Passed
				3	0	23.01	0.00	1.20	21.81	0.15171	19.66	0.09247	3.00	34.77	Passed
				3	2	23.11	0.00	1.20	21.91	0.15524	19.76	0.09462	3.00	34.77	Passed
BW 3 MHz	20415	825.50	QPSK	6	0	22.14	0.00	1.20	20.94	0.12417	18.79	0.07568	3.00	34.77	Passed
				1	0	22.37	0.00	1.20	21.17	0.13092	19.02	0.07980	3.00	34.77	Passed
			16QAM	1	5	22.39	0.00	1.20	21.19	0.13152	19.04	0.08017	3.00	34.77	Passed
				3	0	22.25	0.00	1.20	21.05	0.12735	18.90	0.07762	3.00	34.77	Passed
				3	2	22.16	0.00	1.20	20.96	0.12474	18.81	0.07603	3.00	34.77	Passed
				6	0	20.83	0.00	1.20	19.63	0.09183	17.48	0.05598	3.00	34.77	Passed
	20525	836.50	QPSK	1	0	23.27	0.20	1.02	22.45	0.17579	20.30	0.10715	3.00	34.77	Passed
				1	14	23.57	0.20	1.02	22.75	0.18836	20.60	0.11482	3.00	34.77	Passed
				8	0	22.45	0.20	1.02	21.63	0.14555	19.48	0.08872	3.00	34.77	Passed
				8	7	22.38	0.20	1.02	21.56	0.14322	19.41	0.08730	3.00	34.77	Passed
			16QAM	15	0	22.35	0.20	1.02	21.53	0.14223	19.38	0.08670	3.00	34.77	Passed
				1	0	22.40	0.20	1.02	21.58	0.14388	19.43	0.08770	3.00	34.77	Passed
				1	14	22.60	0.20	1.02	21.78	0.15066	19.63	0.09183	3.00	34.77	Passed
				8	0	21.33	0.20	1.02	20.51	0.11246	18.36	0.06855	3.00	34.77	Passed
	20635	847.50	QPSK	8	7	21.29	0.20	1.02	20.47	0.11143	18.32	0.06792	3.00	34.77	Passed
				15	0	21.37	0.20	1.02	20.55	0.11350	18.40	0.06918	3.00	34.77	Passed
			16QAM	1	0	23.22	0.10	1.10	22.22	0.16672	20.07	0.10162	3.00	34.77	Passed
				1	14	23.08	0.10	1.10	22.08	0.16144	19.93	0.09840	3.00	34.77	Passed
				8	0	22.43	0.10	1.10	21.43	0.13900	19.28	0.08472	3.00	34.77	Passed
				8	7	22.23	0.10	1.10	21.23	0.13274	19.08	0.08091	3.00	34.77	Passed
			16QAM	15	0	22.16	0.10	1.10	21.16	0.13062	19.01	0.07962	3.00	34.77	Passed
				1	0	22.11	0.10	1.10	21.11	0.12912	18.96	0.07870	3.00	34.77	Passed
	20635	847.50	QPSK	1	14	21.94	0.10	1.10	20.94	0.12417	18.79	0.07568	3.00	34.77	Passed
				8	0	21.10	0.10	1.10	20.10	0.10233	17.95	0.06237	3.00	34.77	Passed
				8	7	21.09	0.10	1.10	20.09	0.10209	17.94	0.06223	3.00	34.77	Passed
				15	0	21.28	0.10	1.10	20.28	0.10666	18.13	0.06501	3.00	34.77	Passed
			16QAM	1	0	23.26	0.00	1.20	22.06	0.16069	19.91	0.09795	3.00	34.77	Passed
				1	14	23.01	0.00	1.20	21.81	0.15171	19.66	0.09247	3.00	34.77	Passed
				8	0	22.09	0.00	1.20	20.89	0.12274	18.74	0.07482	3.00	34.77	Passed
				8	7	22.10	0.00	1.20	20.90	0.12303	18.75	0.07499	3.00	34.77	Passed
	20635	847.50	QPSK	15	0	22.08	0.00	1.20	20.88	0.12246	18.73	0.07464	3.00	34.77	Passed
				1	0	21.95	0.00	1.20	20.75	0.11885	18.60	0.07244	3.00	34.77	Passed
			16QAM	1	14	21.68	0.00	1.20	20.48	0.11169	18.33	0.06808	3.00	34.77	Passed
				8	0	21.16	0.00	1.20	19.96	0.09908	17.81	0.06039	3.00	34.77	Passed
				8	7	20.98	0.00	1.20	19.78	0.09506	17.63	0.05794	3.00	34.77	Passed
				15	0	21.20	0.00	1.20	20.00	0.10000	17.85	0.06095	3.00	34.77	Passed

BW 5 MHz	20425	826.50	QPSK	1	0	23.24	0.20	1.02	22.42	0.17458	20.27	0.10641	3.00	34.77	Passed			
				1	24	23.47	0.20	1.02	22.65	0.18408	20.50	0.11220	3.00	34.77	Passed			
				12	0	22.33	0.20	1.02	21.51	0.14158	19.36	0.08630	3.00	34.77	Passed			
				12	11	22.59	0.20	1.02	21.77	0.15031	19.62	0.09162	3.00	34.77	Passed			
			16QAM	25	0	22.43	0.20	1.02	21.61	0.14488	19.46	0.08831	3.00	34.77	Passed			
				1	0	21.89	0.20	1.02	21.07	0.12794	18.92	0.07798	3.00	34.77	Passed			
				1	24	22.62	0.20	1.02	21.80	0.15136	19.65	0.09226	3.00	34.77	Passed			
				12	0	21.29	0.20	1.02	20.47	0.11143	18.32	0.06792	3.00	34.77	Passed			
		20525	836.50	QPSK	12	11	21.39	0.20	1.02	20.57	0.11402	18.42	0.06950	3.00	34.77	Passed		
					25	0	21.28	0.20	1.02	20.46	0.11117	18.31	0.06776	3.00	34.77	Passed		
					1	0	23.20	0.10	1.10	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed		
					1	24	23.10	0.10	1.10	22.10	0.16218	19.95	0.09886	3.00	34.77	Passed		
				16QAM	12	0	22.32	0.10	1.10	21.32	0.13552	19.17	0.08260	3.00	34.77	Passed		
					12	11	22.26	0.10	1.10	21.26	0.13366	19.11	0.08147	3.00	34.77	Passed		
					25	0	22.29	0.10	1.10	21.29	0.13459	19.14	0.08204	3.00	34.77	Passed		
					1	0	21.83	0.10	1.10	20.83	0.12106	18.68	0.07379	3.00	34.77	Passed		
	20625	846.50	QPSK	1	24	21.40	0.10	1.10	20.40	0.10965	18.25	0.06683	3.00	34.77	Passed			
				12	0	21.39	0.10	1.10	20.39	0.10940	18.24	0.06668	3.00	34.77	Passed			
				12	11	21.12	0.10	1.10	20.12	0.10280	17.97	0.06266	3.00	34.77	Passed			
				25	0	21.26	0.10	1.10	20.26	0.10617	18.11	0.06471	3.00	34.77	Passed			
			16QAM	1	0	22.95	0.00	1.20	21.75	0.14962	19.60	0.09120	3.00	34.77	Passed			
				1	24	22.99	0.00	1.20	21.79	0.15101	19.64	0.09204	3.00	34.77	Passed			
				12	0	22.09	0.00	1.20	20.89	0.12274	18.74	0.07482	3.00	34.77	Passed			
				12	11	22.19	0.00	1.20	20.99	0.12560	18.84	0.07656	3.00	34.77	Passed			
			20450	829.00	QPSK	25	0	22.12	0.00	1.20	20.92	0.12359	18.77	0.07534	3.00	34.77	Passed	
						1	0	21.96	0.00	1.20	20.76	0.11912	18.61	0.07261	3.00	34.77	Passed	
						1	24	21.70	0.00	1.20	20.50	0.11220	18.35	0.06839	3.00	34.77	Passed	
						12	0	20.99	0.00	1.20	19.79	0.09528	17.64	0.05808	3.00	34.77	Passed	
					16QAM	12	11	21.04	0.00	1.20	19.84	0.09638	17.69	0.05875	3.00	34.77	Passed	
						25	0	21.18	0.00	1.20	19.98	0.09954	17.83	0.06067	3.00	34.77	Passed	
						1	0	23.34	0.20	1.02	22.52	0.17865	20.37	0.10889	3.00	34.77	Passed	
						1	24	23.55	0.20	1.02	22.73	0.18750	20.58	0.11429	3.00	34.77	Passed	
	BW 10 MHz	20450	829.00	QPSK	1	49	23.66	0.20	1.02	22.84	0.19231	20.69	0.11722	3.00	34.77	Passed		
					25	0	22.41	0.20	1.02	21.59	0.14421	19.44	0.08790	3.00	34.77	Passed		
					25	24	22.37	0.20	1.02	21.55	0.14289	19.40	0.08710	3.00	34.77	Passed		
					50	0	22.43	0.20	1.02	21.61	0.14488	19.46	0.08831	3.00	34.77	Passed		
				16QAM	1	0	22.30	0.20	1.02	21.48	0.14060	19.33	0.08570	3.00	34.77	Passed		
					1	24	22.22	0.20	1.02	21.40	0.13804	19.25	0.08414	3.00	34.77	Passed		
					1	49	22.14	0.20	1.02	21.32	0.13552	19.17	0.08260	3.00	34.77	Passed		
					25	0	21.32	0.20	1.02	20.50	0.11220	18.35	0.06839	3.00	34.77	Passed		
				20525	836.50	QPSK	25	24	21.32	0.20	1.02	20.50	0.11220	18.35	0.06839	3.00	34.77	Passed
							50	0	21.30	0.20	1.02	20.48	0.11169	18.33	0.06808	3.00	34.77	Passed
							1	0	23.15	0.10	1.10	22.15	0.16406	20.00	0.10000	3.00	34.77	Passed
							1	24	23.17	0.10	1.10	22.17	0.16482	20.02	0.10046	3.00	34.77	Passed
						16QAM	1	49	23.21	0.10	1.10	22.21	0.16634	20.06	0.10139	3.00	34.77	Passed
							25	0	22.42	0.10	1.10	21.42	0.13868	19.27	0.08453	3.00	34.77	Passed
							25	24	22.15	0.10	1.10	21.15	0.13032	19.00	0.07943	3.00	34.77	Passed
							50	0	22.33	0.10	1.10	21.33	0.13583	19.18	0.08279	3.00	34.77	Passed
20600		844.00	QPSK	1	0	22.15	0.10	1.10	21.15	0.13032	19.00	0.07943	3.00	34.77	Passed			
				1	24	21.80	0.10	1.10	20.80	0.12023	18.65	0.07328	3.00	34.77	Passed			
				1	49	22.38	0.10	1.10	21.38	0.13740	19.23	0.08375	3.00	34.77	Passed			
				25	0	21.35	0.10	1.10	20.35	0.10839	18.20	0.06607	3.00	34.77	Passed			
			16QAM	25	24	21.13	0.10	1.10	20.13	0.10304	17.98	0.06281	3.00	34.77	Passed			
				50	0	21.32	0.10	1.10	20.32	0.10765	18.17	0.06561	3.00	34.77	Passed			
				1	0	23.40	0.00	1.20	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed			
				1	24	23.48	0.00	1.20	22.28	0.16904	20.13	0.10304	3.00	34.77	Passed			
			20450	829.00	QPSK	1	49	23.12	0.00	1.20	21.92	0.15560	19.77	0.09484	3.00	34.77	Passed	
						25	0	22.25	0.00	1.20	21.05	0.12735	18.90	0.07762	3.00	34.77	Passed	
						25	24	22.13	0.00	1.20	20.93	0.12388	18.78	0.07551	3.00	34.77	Passed	
						50	0	22.21	0.00	1.20	21.01	0.12618	18.86	0.07691	3.00	34.77	Passed	
					16QAM	1	0	22.00	0.00	1.20	20.80	0.12023	18.65	0.07328	3.00	34.77	Passed	
						1	24	22.36	0.00	1.20	21.16	0.13062	19.01	0.07962	3.00	34.77	Passed	
						1	49	21.84	0.00	1.20	20.64	0.11588	18.49	0.07063	3.00	34.77	Passed	
						25	0	21.21	0.00	1.20	20.01	0.10023	17.86	0.06109	3.00	34.77	Passed	
20450		829.00	QPSK	25	24	21.04	0.00	1.20	19.84	0.09638	17.69	0.05875	3.00	34.77	Passed			
				50	0	21.05	0.00	1.20	19.85	0.09661	17.70	0.05888	3.00	34.77	Passed			
EIRP= RMS Power at Antenna Port + Maximum declared Antenna Gain - Path loss to Antenna Connector - Path loss in Antenna Cable																		
ERP = EIRP - 2.15																		

LTE FDD Band 7															
	Channel Nr.	ARFCN-Frequency [MHz]	Modulation	RB	Start RB	RMS Power at Antenna Port [dBm]	Maximum declared Antenna Gain [dBi]	Path loss to Antenna Connector	EIRP [dBm]	EIRP [W]	ERP [dBm]	ERP [W]	FCC Limit [W]; ERP	FCC Limit [dBm]; ERP	Verdict
BW 5 MHz	20775	2502.50	QPSK	1	0	22.97	3.00	2.11	23.86	0.24322	21.71	0.14825	3.00	34.77	Passed
				1	24	22.96	3.00	2.11	23.85	0.24266	21.70	0.14791	3.00	34.77	Passed
				12	0	22.26	3.00	2.11	23.15	0.20654	21.00	0.12589	3.00	34.77	Passed
				12	11	22.11	3.00	2.11	23.00	0.19953	20.85	0.12162	3.00	34.77	Passed
				25	0	22.24	3.00	2.11	23.13	0.20559	20.98	0.12531	3.00	34.77	Passed
			16QAM	1	0	22.04	3.00	2.11	22.93	0.19634	20.78	0.11967	3.00	34.77	Passed
				1	24	21.82	3.00	2.11	22.71	0.18664	20.56	0.11376	3.00	34.77	Passed
				12	0	21.34	3.00	2.11	22.23	0.16711	20.08	0.10186	3.00	34.77	Passed
				12	11	21.11	3.00	2.11	22.00	0.15849	19.85	0.09661	3.00	34.77	Passed
				25	0	21.34	3.00	2.11	22.23	0.16711	20.08	0.10186	3.00	34.77	Passed
	21100	2535.00	QPSK	1	0	22.92	3.10	2.12	23.90	0.24547	21.75	0.14962	3.00	34.77	Passed
				1	24	22.93	3.10	2.12	23.91	0.24604	21.76	0.14997	3.00	34.77	Passed
				12	0	22.13	3.10	2.12	23.11	0.20464	20.96	0.12474	3.00	34.77	Passed
				12	11	22.18	3.10	2.12	23.16	0.20701	21.01	0.12618	3.00	34.77	Passed
				25	0	22.15	3.10	2.12	23.13	0.20559	20.98	0.12531	3.00	34.77	Passed
			16QAM	1	0	21.84	3.10	2.12	22.82	0.19143	20.67	0.11668	3.00	34.77	Passed
				1	24	21.83	3.10	2.12	22.81	0.19099	20.66	0.11641	3.00	34.77	Passed
				12	0	21.17	3.10	2.12	22.15	0.16406	20.00	0.10000	3.00	34.77	Passed
				12	11	21.18	3.10	2.12	22.16	0.16444	20.01	0.10023	3.00	34.77	Passed
				25	0	21.21	3.10	2.12	22.19	0.16558	20.04	0.10093	3.00	34.77	Passed
	21425	2567.50	QPSK	1	0	22.55	3.30	2.14	23.71	0.23496	21.56	0.14322	3.00	34.77	Passed
				1	24	22.65	3.30	2.14	23.81	0.24044	21.66	0.14655	3.00	34.77	Passed
				12	0	21.86	3.30	2.14	23.02	0.20045	20.87	0.12218	3.00	34.77	Passed
				12	11	21.89	3.30	2.14	23.05	0.20184	20.90	0.12303	3.00	34.77	Passed
				25	0	21.86	3.30	2.14	23.02	0.20045	20.87	0.12218	3.00	34.77	Passed
			16QAM	1	0	21.76	3.30	2.14	22.92	0.19588	20.77	0.11940	3.00	34.77	Passed
				1	24	21.65	3.30	2.14	22.81	0.19099	20.66	0.11641	3.00	34.77	Passed
				12	0	20.92	3.30	2.14	22.08	0.16144	19.93	0.09840	3.00	34.77	Passed
				12	11	20.97	3.30	2.14	22.13	0.16331	19.98	0.09954	3.00	34.77	Passed
				25	0	20.86	3.30	2.14	22.02	0.15922	19.87	0.09705	3.00	34.77	Passed
BW 10 MHz	20800	2505.00	QPSK	1	0	23.31	3.00	2.11	24.20	0.26303	22.05	0.16032	3.00	34.77	Passed
				1	24	23.21	3.00	2.11	24.10	0.25704	21.95	0.15668	3.00	34.77	Passed
				1	49	23.19	3.00	2.11	24.08	0.25586	21.93	0.15596	3.00	34.77	Passed
				25	0	22.27	3.00	2.11	23.16	0.20701	21.01	0.12618	3.00	34.77	Passed
				25	24	22.34	3.00	2.11	23.23	0.21038	21.08	0.12823	3.00	34.77	Passed
			16QAM	50	0	22.27	3.00	2.11	23.16	0.20701	21.01	0.12618	3.00	34.77	Passed
				1	0	22.15	3.00	2.11	23.04	0.20137	20.89	0.12274	3.00	34.77	Passed
				1	24	22.45	3.00	2.11	23.34	0.21577	21.19	0.13152	3.00	34.77	Passed
				1	49	21.66	3.00	2.11	22.55	0.17989	20.40	0.10965	3.00	34.77	Passed
				25	0	21.36	3.00	2.11	22.25	0.16788	20.10	0.10233	3.00	34.77	Passed
				25	24	21.35	3.00	2.11	22.24	0.16749	20.09	0.10209	3.00	34.77	Passed
				50	0	21.35	3.00	2.11	22.24	0.16749	20.09	0.10209	3.00	34.77	Passed
	21100	2535.00	QPSK	1	0	23.05	3.10	2.12	24.03	0.25293	21.88	0.15417	3.00	34.77	Passed
				1	24	23.12	3.10	2.12	24.10	0.25704	21.95	0.15668	3.00	34.77	Passed
				1	49	22.95	3.10	2.12	23.93	0.24717	21.78	0.15066	3.00	34.77	Passed
				25	0	22.20	3.10	2.12	23.18	0.20797	21.03	0.12677	3.00	34.77	Passed
				25	24	22.21	3.10	2.12	23.19	0.20845	21.04	0.12706	3.00	34.77	Passed
			16QAM	50	0	22.18	3.10	2.12	23.16	0.20701	21.01	0.12618	3.00	34.77	Passed
				1	0	21.99	3.10	2.12	22.97	0.19815	20.82	0.12078	3.00	34.77	Passed
				1	24	22.32	3.10	2.12	23.30	0.21380	21.15	0.13032	3.00	34.77	Passed
				1	49	21.95	3.10	2.12	22.93	0.19634	20.78	0.11967	3.00	34.77	Passed
				25	0	21.18	3.10	2.12	22.16	0.16444	20.01	0.10023	3.00	34.77	Passed
				25	24	21.12	3.10	2.12	22.10	0.16218	19.95	0.09886	3.00	34.77	Passed
				50	0	21.35	3.10	2.12	22.33	0.17100	20.18	0.10423	3.00	34.77	Passed
	21400	2565.00	QPSK	1	0	23.16	3.30	2.14	24.32	0.27040	22.17	0.16482	3.00	34.77	Passed
				1	24	22.88	3.30	2.14	24.04	0.25351	21.89	0.15453	3.00	34.77	Passed
				1	49	22.55	3.30	2.14	23.71	0.23496	21.56	0.14322	3.00	34.77	Passed
				25	0	21.82	3.30	2.14	22.98	0.19861	20.83	0.12106	3.00	34.77	Passed
				25	24	21.94	3.30	2.14	23.10	0.20417	20.95	0.12445	3.00	34.77	Passed
			16QAM	50	0	21.98	3.30	2.14	23.14	0.20606	20.99	0.12560	3.00	34.77	Passed
				1	0	21.85	3.30	2.14	23.01	0.19999	20.86	0.12190	3.00	34.77	Passed
				1	24	21.84	3.30	2.14	23.00	0.19953	20.85	0.12162	3.00	34.77	Passed
				1	49	21.89	3.30	2.14	23.05	0.20184	20.90	0.12303	3.00	34.77	Passed
				25	0	20.85	3.30	2.14	22.01	0.15885	19.86	0.09683	3.00	34.77	Passed
				25	24	21.09	3.30	2.14	22.25	0.16788	20.10	0.10233	3.00	34.77	Passed
				50	0	21.04	3.30	2.14	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed

BW 15 MHz	20825	2507.50	QPSK	1	0	23.27	3.00	2.11	24.16	0.26062	22.01	0.15885	3.00	34.77	Passed	
				1	27	23.27	3.00	2.11	24.16	0.26062	22.01	0.15885	3.00	34.77	Passed	
				1	74	23.12	3.00	2.11	24.01	0.25177	21.86	0.15346	3.00	34.77	Passed	
				27	0	22.27	3.00	2.11	23.16	0.20701	21.01	0.12618	3.00	34.77	Passed	
				27	74	22.28	3.00	2.11	23.17	0.20749	21.02	0.12647	3.00	34.77	Passed	
				75	0	22.06	3.00	2.11	22.95	0.19724	20.80	0.12023	3.00	34.77	Passed	
			16QAM	1	0	22.22	3.00	2.11	23.11	0.20464	20.96	0.12474	3.00	34.77	Passed	
				1	27	22.52	3.00	2.11	23.41	0.21928	21.26	0.13366	3.00	34.77	Passed	
				1	74	22.79	3.00	2.11	23.68	0.23335	21.53	0.14223	3.00	34.77	Passed	
				27	0	21.32	3.00	2.11	22.21	0.16634	20.06	0.10139	3.00	34.77	Passed	
				27	74	21.45	3.00	2.11	22.34	0.17140	20.19	0.10447	3.00	34.77	Passed	
				75	0	21.44	3.00	2.11	22.33	0.17100	20.18	0.10423	3.00	34.77	Passed	
	21100	2535.00	QPSK	1	0	23.04	3.10	2.12	24.02	0.25235	21.87	0.15382	3.00	34.77	Passed	
				1	27	23.27	3.10	2.12	24.25	0.26607	22.10	0.16218	3.00	34.77	Passed	
				1	74	23.33	3.10	2.12	24.31	0.26977	22.16	0.16444	3.00	34.77	Passed	
				27	0	22.24	3.10	2.12	23.22	0.20989	21.07	0.12794	3.00	34.77	Passed	
				27	74	22.22	3.10	2.12	23.20	0.20893	21.05	0.12735	3.00	34.77	Passed	
				75	0	22.21	3.10	2.12	23.19	0.20845	21.04	0.12706	3.00	34.77	Passed	
			16QAM	1	0	22.07	3.10	2.12	23.05	0.20184	20.90	0.12303	3.00	34.77	Passed	
				1	27	22.15	3.10	2.12	23.13	0.20559	20.98	0.12531	3.00	34.77	Passed	
				1	74	22.50	3.10	2.12	23.48	0.22284	21.33	0.13583	3.00	34.77	Passed	
				27	0	21.30	3.10	2.12	22.28	0.16904	20.13	0.10304	3.00	34.77	Passed	
				27	74	21.37	3.10	2.12	22.35	0.17179	20.20	0.10471	3.00	34.77	Passed	
				75	0	21.11	3.10	2.12	22.09	0.16181	19.94	0.09863	3.00	34.77	Passed	
	21375	2562.50	QPSK	1	0	22.90	3.30	2.14	24.06	0.25468	21.91	0.15524	3.00	34.77	Passed	
				1	27	23.23	3.30	2.14	24.39	0.27479	22.24	0.16749	3.00	34.77	Passed	
				1	74	22.65	3.30	2.14	23.81	0.24044	21.66	0.14655	3.00	34.77	Passed	
				27	0	21.89	3.30	2.14	23.05	0.20184	20.90	0.12303	3.00	34.77	Passed	
				27	74	21.98	3.30	2.14	23.14	0.20606	20.99	0.12560	3.00	34.77	Passed	
				75	0	21.86	3.30	2.14	23.02	0.20045	20.87	0.12218	3.00	34.77	Passed	
			16QAM	1	0	21.93	3.30	2.14	23.09	0.20370	20.94	0.12417	3.00	34.77	Passed	
				1	27	22.18	3.30	2.14	23.34	0.21577	21.19	0.13152	3.00	34.77	Passed	
				1	74	21.98	3.30	2.14	23.14	0.20606	20.99	0.12560	3.00	34.77	Passed	
				27	0	21.07	3.30	2.14	22.23	0.16711	20.08	0.10186	3.00	34.77	Passed	
				27	74	21.03	3.30	2.14	22.19	0.16558	20.04	0.10093	3.00	34.77	Passed	
				75	0	21.00	3.30	2.14	22.16	0.16444	20.01	0.10023	3.00	34.77	Passed	
	BW 20 MHz	20850	2510.00	QPSK	1	0	23.29	3.00	2.11	24.18	0.26182	22.03	0.15959	3.00	34.77	Passed
					1	49	23.28	3.00	2.11	24.17	0.26122	22.02	0.15922	3.00	34.77	Passed
					1	99	22.84	3.00	2.11	23.73	0.23605	21.58	0.14388	3.00	34.77	Passed
					50	0	22.29	3.00	2.11	23.18	0.20797	21.03	0.12677	3.00	34.77	Passed
					50	49	22.26	3.00	2.11	23.15	0.20654	21.00	0.12589	3.00	34.77	Passed
					100	0	22.27	3.00	2.11	23.16	0.20701	21.01	0.12618	3.00	34.77	Passed
				16QAM	1	0	21.56	3.00	2.11	22.45	0.17579	20.30	0.10715	3.00	34.77	Passed
					1	49	22.05	3.00	2.11	22.94	0.19679	20.79	0.11995	3.00	34.77	Passed
					1	99	22.36	3.00	2.11	23.25	0.21135	21.10	0.12882	3.00	34.77	Passed
					50	0	21.44	3.00	2.11	22.33	0.17100	20.18	0.10423	3.00	34.77	Passed
					50	49	21.28	3.00	2.11	22.17	0.16482	20.02	0.10046	3.00	34.77	Passed
					100	0	21.27	3.00	2.11	22.16	0.16444	20.01	0.10023	3.00	34.77	Passed
21100		2535.00	QPSK	1	0	23.16	3.10	2.12	24.14	0.25942	21.99	0.15812	3.00	34.77	Passed	
				1	49	23.27	3.10	2.12	24.25	0.26607	22.10	0.16218	3.00	34.77	Passed	
				1	99	23.18	3.10	2.12	24.16	0.26062	22.01	0.15885	3.00	34.77	Passed	
				50	0	22.24	3.10	2.12	23.22	0.20989	21.07	0.12794	3.00	34.77	Passed	
				50	49	22.24	3.10	2.12	23.22	0.20989	21.07	0.12794	3.00	34.77	Passed	
				100	0	22.23	3.10	2.12	23.21	0.20941	21.06	0.12764	3.00	34.77	Passed	
			16QAM	1	0	22.23	3.10	2.12	23.21	0.20941	21.06	0.12764	3.00	34.77	Passed	
				1	49	22.17	3.10	2.12	23.15	0.20654	21.00	0.12589	3.00	34.77	Passed	
				1	99	21.99	3.10	2.12	22.97	0.19815	20.82	0.12078	3.00	34.77	Passed	
				50	0	21.31	3.10	2.12	22.29	0.16943	20.14	0.10328	3.00	34.77	Passed	
				50	49	21.22	3.10	2.12	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed	
				100	0	21.22	3.10	2.12	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed	
21350		2560.00	QPSK	1	0	22.95	3.30	2.14	24.11	0.25763	21.96	0.15704	3.00	34.77	Passed	
				1	49	22.75	3.30	2.14	23.91	0.24604	21.76	0.14997	3.00	34.77	Passed	
				1	99	23.05	3.30	2.14	24.21	0.26363	22.06	0.16069	3.00	34.77	Passed	
				50	0	22.16	3.30	2.14	23.32	0.21478	21.17	0.13092	3.00	34.77	Passed	
				50	49	21.90	3.30	2.14	23.06	0.20230	20.91	0.12331	3.00	34.77	Passed	
				100	0	22.03	3.30	2.14	23.19	0.20845	21.04	0.12706	3.00	34.77	Passed	
			16QAM	1	0	21.72	3.30	2.14	22.88	0.19409	20.73	0.11830	3.00	34.77	Passed	
				1	49	21.73	3.30	2.14	22.89	0.19454	20.74	0.11858	3.00	34.77	Passed	
				1	99	22.02	3.30	2.14	23.18	0.20797	21.03	0.12677	3.00	34.77	Passed	
				50	0	21.16	3.30	2.14	22.32	0.17061	20.17	0.10399	3.00	34.77	Passed	
				50	49	20.94	3.30	2.14	22.10	0.16218	19.95	0.09886	3.00	34.77	Passed	
				100	0	21.03	3.30	2.14	22.19	0.16558	20.04	0.10093	3.00	34.77	Passed	
EIRP= RMS Power at Antenna Port + Maximum declared Antenna Gain - Path loss to Antenna Connector - Path loss in Antenna Cable																
ERP = EIRP - 2.15																

LTE FDD Band 12																	
	Channel Nr.	ARFCN-Frequency [MHz]	Modulation	RB	Start RB	RMS Power at Antenna Port [dBm]	Maximum declared Antenna Gain [dBi]	Path loss to Antenna Connector	EIRP [dBm]	EIRP [W]	ERP [dBm]	ERP [W]	FCC Limit [W]; ERP	FCC Limit [dBm]; ERP	Verdict		
BW 1.4 MHz	23017	699.70	QPSK	1	0	23.04	-0.70	0.70	21.64	0.14588	19.49	0.08892	3.00	34.77	Passed		
				1	5	23.44	-0.70	0.70	22.04	0.15996	19.89	0.09750	3.00	34.77	Passed		
				3	0	23.45	-0.70	0.70	22.05	0.16032	19.90	0.09772	3.00	34.77	Passed		
				3	2	23.33	-0.70	0.70	21.93	0.15596	19.78	0.09506	3.00	34.77	Passed		
			16QAM	6	0	22.40	-0.70	0.70	21.00	0.12589	18.85	0.07674	3.00	34.77	Passed		
				1	0	22.41	-0.70	0.70	21.01	0.12618	18.86	0.07691	3.00	34.77	Passed		
				1	5	22.07	-0.70	0.70	20.67	0.11668	18.52	0.07112	3.00	34.77	Passed		
				3	0	22.13	-0.70	0.70	20.73	0.11830	18.58	0.07211	3.00	34.77	Passed		
			QPSK	3	2	22.31	-0.70	0.70	20.91	0.12331	18.76	0.07516	3.00	34.77	Passed		
				6	0	21.22	-0.70	0.70	19.82	0.09594	17.67	0.05848	3.00	34.77	Passed		
				1	0	23.05	-0.50	0.72	21.83	0.15241	19.68	0.09290	3.00	34.77	Passed		
				1	5	22.96	-0.50	0.72	21.74	0.14928	19.59	0.09099	3.00	34.77	Passed		
	23095	707.50	QPSK	3	0	23.18	-0.50	0.72	21.96	0.15704	19.81	0.09572	3.00	34.77	Passed		
				3	2	23.19	-0.50	0.72	21.97	0.15740	19.82	0.09594	3.00	34.77	Passed		
				6	0	22.28	-0.50	0.72	21.06	0.12764	18.91	0.07780	3.00	34.77	Passed		
				1	0	22.23	-0.50	0.72	21.01	0.12618	18.86	0.07691	3.00	34.77	Passed		
			16QAM	1	5	21.89	-0.50	0.72	20.67	0.11668	18.52	0.07112	3.00	34.77	Passed		
				3	0	22.38	-0.50	0.72	21.16	0.13062	19.01	0.07962	3.00	34.77	Passed		
				3	2	21.91	-0.50	0.72	20.69	0.11722	18.54	0.07145	3.00	34.77	Passed		
				6	0	21.16	-0.50	0.72	19.94	0.09863	17.79	0.06012	3.00	34.77	Passed		
			QPSK	1	0	23.51	-0.40	0.74	22.37	0.17258	20.22	0.10520	3.00	34.77	Passed		
				1	5	23.47	-0.40	0.74	22.33	0.17100	20.18	0.10423	3.00	34.77	Passed		
				3	0	23.31	-0.40	0.74	22.17	0.16482	20.02	0.10046	3.00	34.77	Passed		
				3	2	23.48	-0.40	0.74	22.34	0.17140	20.19	0.10447	3.00	34.77	Passed		
	23173	715.30	QPSK	6	0	22.51	-0.40	0.74	21.37	0.13709	19.22	0.08356	3.00	34.77	Passed		
				1	0	22.55	-0.40	0.74	21.41	0.13836	19.26	0.08433	3.00	34.77	Passed		
				1	5	22.48	-0.40	0.74	21.34	0.13614	19.19	0.08299	3.00	34.77	Passed		
				3	0	22.46	-0.40	0.74	21.32	0.13552	19.17	0.08260	3.00	34.77	Passed		
			16QAM	3	2	22.40	-0.40	0.74	21.26	0.13366	19.11	0.08147	3.00	34.77	Passed		
				6	0	21.38	-0.40	0.74	20.24	0.10568	18.09	0.06442	3.00	34.77	Passed		
				1	0	22.97	-0.70	0.70	21.57	0.14355	19.42	0.08750	3.00	34.77	Passed		
				1	14	23.27	-0.70	0.70	21.87	0.15382	19.72	0.09376	3.00	34.77	Passed		
23025			700.50	QPSK	8	0	22.41	-0.70	0.70	21.01	0.12618	18.86	0.07691	3.00	34.77	Passed	
					8	7	22.37	-0.70	0.70	20.97	0.12503	18.82	0.07621	3.00	34.77	Passed	
					15	0	22.36	-0.70	0.70	20.96	0.12474	18.81	0.07603	3.00	34.77	Passed	
					1	0	22.19	-0.70	0.70	20.79	0.11995	18.64	0.07311	3.00	34.77	Passed	
	16QAM	1		14	22.28	-0.70	0.70	20.88	0.12246	18.73	0.07464	3.00	34.77	Passed			
		8		0	21.31	-0.70	0.70	19.91	0.09795	17.76	0.05970	3.00	34.77	Passed			
		8		7	21.43	-0.70	0.70	20.03	0.10069	17.88	0.06138	3.00	34.77	Passed			
		15		0	21.32	-0.70	0.70	19.92	0.09817	17.77	0.05984	3.00	34.77	Passed			
	23095	707.50		QPSK	1	0	23.15	-0.50	0.72	21.93	0.15596	19.78	0.09506	3.00	34.77	Passed	
					1	14	23.00	-0.50	0.72	21.78	0.15066	19.63	0.09183	3.00	34.77	Passed	
					8	0	22.21	-0.50	0.72	20.99	0.12560	18.84	0.07656	3.00	34.77	Passed	
					8	7	22.29	-0.50	0.72	21.07	0.12794	18.92	0.07798	3.00	34.77	Passed	
16QAM			15	0	22.22	-0.50	0.72	21.00	0.12589	18.85	0.07674	3.00	34.77	Passed			
			1	0	22.04	-0.50	0.72	20.82	0.12078	18.67	0.07362	3.00	34.77	Passed			
			1	14	21.91	-0.50	0.72	20.69	0.11722	18.54	0.07145	3.00	34.77	Passed			
			8	0	21.04	-0.50	0.72	19.82	0.09594	17.67	0.05848	3.00	34.77	Passed			
QPSK			8	7	21.05	-0.50	0.72	19.83	0.09616	17.68	0.05861	3.00	34.77	Passed			
			15	0	21.15	-0.50	0.72	19.93	0.09840	17.78	0.05998	3.00	34.77	Passed			
			Channel 23165	714.50	QPSK	1	0	23.67	-0.40	0.74	22.53	0.17906	20.38	0.10914	3.00	34.77	Passed
						1	14	23.30	-0.40	0.74	22.16	0.16444	20.01	0.10023	3.00	34.77	Passed
8	0	22.47				-0.40	0.74	21.33	0.13583	19.18	0.08279	3.00	34.77	Passed			
8	7	22.42				-0.40	0.74	21.28	0.13428	19.13	0.08185	3.00	34.77	Passed			
16QAM	15	0			22.53	-0.40	0.74	21.39	0.13772	19.24	0.08395	3.00	34.77	Passed			
	1	0			22.30	-0.40	0.74	21.16	0.13062	19.01	0.07962	3.00	34.77	Passed			
	1	14			22.32	-0.40	0.74	21.18	0.13122	19.03	0.07998	3.00	34.77	Passed			
	8	0			21.31	-0.40	0.74	20.17	0.10399	18.02	0.06339	3.00	34.77	Passed			
QPSK	8	7			21.33	-0.40	0.74	20.19	0.10447	18.04	0.06368	3.00	34.77	Passed			
	15	0			21.44	-0.40	0.74	20.30	0.10715	18.15	0.06531	3.00	34.77	Passed			
	15	0			21.44	-0.40	0.74	20.30	0.10715	18.15	0.06531	3.00	34.77	Passed			
	15	0			21.44	-0.40	0.74	20.30	0.10715	18.15	0.06531	3.00	34.77	Passed			

BW 5 MHz	23035	701.50	QPSK	1	0	23.05	-0.70	0.70	21.65	0.14622	19.50	0.08913	3.00	34.77	Passed	
				1	24	22.98	-0.70	0.70	21.58	0.14388	19.43	0.08770	3.00	34.77	Passed	
				12	0	22.30	-0.70	0.70	20.90	0.12303	18.75	0.07499	3.00	34.77	Passed	
				12	11	22.11	-0.70	0.70	20.71	0.11776	18.56	0.07178	3.00	34.77	Passed	
			25	0	22.22	-0.70	0.70	20.82	0.12078	18.67	0.07362	3.00	34.77	Passed		
			16QAM	1	0	21.68	-0.70	0.70	20.28	0.10666	18.13	0.06501	3.00	34.77	Passed	
				1	24	21.60	-0.70	0.70	20.20	0.10471	18.05	0.06383	3.00	34.77	Passed	
				12	0	21.35	-0.70	0.70	19.95	0.09886	17.80	0.06026	3.00	34.77	Passed	
	12	11		21.06	-0.70	0.70	19.66	0.09247	17.51	0.05636	3.00	34.77	Passed			
	23095	707.50	QPSK	25	0	21.20	-0.70	0.70	19.80	0.09550	17.65	0.05821	3.00	34.77	Passed	
				1	0	23.03	-0.50	0.72	21.81	0.15171	19.66	0.09247	3.00	34.77	Passed	
				1	24	23.20	-0.50	0.72	21.98	0.15776	19.83	0.09616	3.00	34.77	Passed	
				12	0	22.29	-0.50	0.72	21.07	0.12794	18.92	0.07798	3.00	34.77	Passed	
			16QAM	12	11	22.31	-0.50	0.72	21.09	0.12853	18.94	0.07834	3.00	34.77	Passed	
				25	0	22.18	-0.50	0.72	20.96	0.12474	18.81	0.07603	3.00	34.77	Passed	
				1	0	21.72	-0.50	0.72	20.50	0.11220	18.35	0.06839	3.00	34.77	Passed	
				1	24	21.60	-0.50	0.72	20.38	0.10914	18.23	0.06653	3.00	34.77	Passed	
	23155	713.50	QPSK	12	0	21.12	-0.50	0.72	19.90	0.09772	17.75	0.05957	3.00	34.77	Passed	
				12	11	21.32	-0.50	0.72	20.10	0.10233	17.95	0.06237	3.00	34.77	Passed	
				25	0	21.19	-0.50	0.72	19.97	0.09931	17.82	0.06053	3.00	34.77	Passed	
				1	0	23.34	-0.40	0.74	22.20	0.16596	20.05	0.10116	3.00	34.77	Passed	
			16QAM	1	24	23.22	-0.40	0.74	22.08	0.16144	19.93	0.09840	3.00	34.77	Passed	
				12	0	22.31	-0.40	0.74	21.17	0.13092	19.02	0.07980	3.00	34.77	Passed	
				12	11	22.46	-0.40	0.74	21.32	0.13552	19.17	0.08260	3.00	34.77	Passed	
				25	0	22.35	-0.40	0.74	21.21	0.13213	19.06	0.08054	3.00	34.77	Passed	
	BW 10 MHz	23060	704.00	QPSK	1	0	22.31	-0.70	0.70	21.71	0.14825	19.56	0.09036	3.00	34.77	Passed
					1	24	23.36	-0.70	0.70	21.96	0.15704	19.81	0.09572	3.00	34.77	Passed
					1	49	23.49	-0.70	0.70	22.09	0.16181	19.94	0.09863	3.00	34.77	Passed
					25	0	22.18	-0.70	0.70	20.78	0.11967	18.63	0.07295	3.00	34.77	Passed
				16QAM	25	24	22.20	-0.70	0.70	20.80	0.12023	18.65	0.07328	3.00	34.77	Passed
					50	0	22.20	-0.70	0.70	20.80	0.12023	18.65	0.07328	3.00	34.77	Passed
					1	0	22.48	-0.70	0.70	21.08	0.12823	18.93	0.07816	3.00	34.77	Passed
					1	24	21.72	-0.70	0.70	20.32	0.10765	18.17	0.06561	3.00	34.77	Passed
		23095	707.50	QPSK	1	49	22.15	-0.70	0.70	20.75	0.11885	18.60	0.07244	3.00	34.77	Passed
					25	0	21.08	-0.70	0.70	19.68	0.09290	17.53	0.05662	3.00	34.77	Passed
					25	24	21.01	-0.70	0.70	19.61	0.09141	17.46	0.05572	3.00	34.77	Passed
					50	0	21.06	-0.70	0.70	19.66	0.09247	17.51	0.05636	3.00	34.77	Passed
				16QAM	1	0	22.98	-0.50	0.72	21.76	0.14997	19.61	0.09141	3.00	34.77	Passed
1					24	23.22	-0.50	0.72	22.00	0.15849	19.85	0.09661	3.00	34.77	Passed	
1					49	23.20	-0.50	0.72	21.98	0.15776	19.83	0.09616	3.00	34.77	Passed	
25					0	22.18	-0.50	0.72	20.96	0.12474	18.81	0.07603	3.00	34.77	Passed	
23130		711.00	QPSK	25	24	22.15	-0.50	0.72	20.93	0.12388	18.78	0.07551	3.00	34.77	Passed	
				50	0	22.22	-0.50	0.72	21.00	0.12589	18.85	0.07674	3.00	34.77	Passed	
				1	0	21.84	-0.50	0.72	20.62	0.11535	18.47	0.07031	3.00	34.77	Passed	
				1	24	22.28	-0.50	0.72	21.06	0.12764	18.91	0.07780	3.00	34.77	Passed	
			16QAM	1	49	21.96	-0.50	0.72	20.74	0.11858	18.59	0.07228	3.00	34.77	Passed	
				25	0	21.11	-0.50	0.72	19.89	0.09750	17.74	0.05943	3.00	34.77	Passed	
				25	24	21.16	-0.50	0.72	19.94	0.09863	17.79	0.06012	3.00	34.77	Passed	
				50	0	21.17	-0.50	0.72	19.95	0.09886	17.80	0.06026	3.00	34.77	Passed	
23130		711.00	QPSK	1	0	23.41	-0.40	0.74	22.27	0.16866	20.12	0.10280	3.00	34.77	Passed	
				1	24	23.47	-0.40	0.74	22.33	0.17100	20.18	0.10423	3.00	34.77	Passed	
				1	49	23.32	-0.40	0.74	22.18	0.16520	20.03	0.10069	3.00	34.77	Passed	
				25	0	22.23	-0.40	0.74	21.09	0.12853	18.94	0.07834	3.00	34.77	Passed	
			16QAM	25	24	22.47	-0.40	0.74	21.33	0.13583	19.18	0.08279	3.00	34.77	Passed	
				50	0	22.37	-0.40	0.74	21.23	0.13274	19.08	0.08091	3.00	34.77	Passed	
				1	0	22.33	-0.40	0.74	21.19	0.13152	19.04	0.08017	3.00	34.77	Passed	
				1	24	22.20	-0.40	0.74	21.06	0.12764	18.91	0.07780	3.00	34.77	Passed	
				1	49	22.22	-0.40	0.74	21.08	0.12823	18.93	0.07816	3.00	34.77	Passed	
				25	0	21.28	-0.40	0.74	20.14	0.10328	17.99	0.06295	3.00	34.77	Passed	
25		24	21.26	-0.40	0.74	20.12	0.10280	17.97	0.06266	3.00	34.77	Passed				
50		0	21.22	-0.40	0.74	20.08	0.10186	17.93	0.06209	3.00	34.77	Passed				
EIRP= RMS Power at Antenna Port + Maximum declared Antenna Gain - Path loss to Antenna Connector - Path loss in Antenna Cable																
ERP = EIRP - 2.15																

LTE FDD Band 13																			
	Channel Nr.	ARFCN-Frequency [MHz]	Modulation	RB	Start RB	RMS Power at Antenna Port [dBm]	Maximum declared Antenna Gain [dBi]	Path loss to Antenna Connector	Path loss in Antenna Cable	EIRP [dBm]	EIRP [W]	ERP [dBm]	ERP [W]	FCC Limit [W]; ERP	FCC Limit [dBm]; ERP	Verdict			
BW 5 MHz	23205	779.50	QPSK	1	0	22.95	-0.20	0.50	0.00	22.25	0.16788	20.10	0.10233	3.00	34.77	Passed			
				1	24	23.06	-0.20	0.50	0.00	22.36	0.17219	20.21	0.10495	3.00	34.77	Passed			
				12	0	22.13	-0.20	0.50	0.00	21.43	0.13900	19.28	0.08472	3.00	34.77	Passed			
				12	11	22.19	-0.20	0.50	0.00	21.49	0.14093	19.34	0.08590	3.00	34.77	Passed			
			25	0	22.12	-0.20	0.50	0.00	21.42	0.13868	19.27	0.08453	3.00	34.77	Passed				
			16QAM	1	0	21.41	-0.20	0.50	0.00	20.71	0.11776	18.56	0.07178	3.00	34.77	Passed			
				1	24	21.64	-0.20	0.50	0.00	20.94	0.12417	18.79	0.07568	3.00	34.77	Passed			
				12	0	21.05	-0.20	0.50	0.00	20.35	0.10839	18.20	0.06607	3.00	34.77	Passed			
				12	11	21.04	-0.20	0.50	0.00	20.34	0.10814	18.19	0.06592	3.00	34.77	Passed			
			25	0	21.07	-0.20	0.50	0.00	20.37	0.10889	18.22	0.06637	3.00	34.77	Passed				
			23230	782.00	QPSK	1	0	22.86	-0.20	0.50	0.00	22.16	0.16444	20.01	0.10023	3.00	34.77	Passed	
						1	24	23.08	-0.20	0.50	0.00	22.38	0.17298	20.23	0.10544	3.00	34.77	Passed	
	12	0				22.10	-0.20	0.50	0.00	21.40	0.13804	19.25	0.08414	3.00	34.77	Passed			
	12	11				22.14	-0.20	0.50	0.00	21.44	0.13932	19.29	0.08492	3.00	34.77	Passed			
	25	0			22.07	-0.20	0.50	0.00	21.37	0.13709	19.22	0.08356	3.00	34.77	Passed				
	16QAM	1			0	21.83	-0.20	0.50	0.00	21.13	0.12972	18.98	0.07907	3.00	34.77	Passed			
		1			24	22.06	-0.20	0.50	0.00	21.36	0.13677	19.21	0.08337	3.00	34.77	Passed			
		12			0	21.17	-0.20	0.50	0.00	20.47	0.11143	18.32	0.06792	3.00	34.77	Passed			
		12			11	21.21	-0.20	0.50	0.00	20.51	0.11246	18.36	0.06855	3.00	34.77	Passed			
	25	0			21.09	-0.20	0.50	0.00	20.39	0.10940	18.24	0.06668	3.00	34.77	Passed				
	23255	784.50			QPSK	1	0	23.01	-0.20	0.50	0.00	22.31	0.17022	20.16	0.10375	3.00	34.77	Passed	
						1	24	23.05	-0.20	0.50	0.00	22.35	0.17179	20.20	0.10471	3.00	34.77	Passed	
			12	0		22.08	-0.20	0.50	0.00	21.38	0.13740	19.23	0.08375	3.00	34.77	Passed			
			12	11		22.24	-0.20	0.50	0.00	21.54	0.14256	19.39	0.08690	3.00	34.77	Passed			
			25	0	22.06	-0.20	0.50	0.00	21.36	0.13677	19.21	0.08337	3.00	34.77	Passed				
			16QAM	1	0	21.90	-0.20	0.50	0.00	21.20	0.13183	19.05	0.08035	3.00	34.77	Passed			
				1	24	21.59	-0.20	0.50	0.00	20.89	0.12274	18.74	0.07482	3.00	34.77	Passed			
				12	0	20.95	-0.20	0.50	0.00	20.25	0.10593	18.10	0.06457	3.00	34.77	Passed			
				12	11	21.05	-0.20	0.50	0.00	20.35	0.10839	18.20	0.06607	3.00	34.77	Passed			
			25	0	21.09	-0.20	0.50	0.00	20.39	0.10940	18.24	0.06668	3.00	34.77	Passed				
			BW 10 MHz	23230	782.00	QPSK	1	0	23.21	-0.20	0.50	0.00	22.51	0.17824	20.36	0.10864	3.00	34.77	Passed
							1	24	23.27	-0.20	0.50	0.00	22.57	0.18072	20.42	0.11015	3.00	34.77	Passed
	1	49					23.39	-0.20	0.50	0.00	22.69	0.18578	20.54	0.11324	3.00	34.77	Passed		
	25	0					22.18	-0.20	0.50	0.00	21.48	0.14060	19.33	0.08570	3.00	34.77	Passed		
	25	24					22.16	-0.20	0.50	0.00	21.46	0.13996	19.31	0.08531	3.00	34.77	Passed		
	50	0					22.12	-0.20	0.50	0.00	21.42	0.13868	19.27	0.08453	3.00	34.77	Passed		
	16QAM	1				0	21.49	-0.20	0.50	0.00	20.79	0.11995	18.64	0.07311	3.00	34.77	Passed		
		1				24	22.33	-0.20	0.50	0.00	21.63	0.14555	19.48	0.08872	3.00	34.77	Passed		
		1				49	21.97	-0.20	0.50	0.00	21.27	0.13397	19.12	0.08166	3.00	34.77	Passed		
		25				0	20.98	-0.20	0.50	0.00	20.28	0.10666	18.13	0.06501	3.00	34.77	Passed		
		25				24	21.02	-0.20	0.50	0.00	20.32	0.10765	18.17	0.06561	3.00	34.77	Passed		
		50				0	21.08	-0.20	0.50	0.00	20.38	0.10914	18.23	0.06653	3.00	34.77	Passed		
QPSK	1	0				23.27	-0.20	0.50	0.00	22.57	0.18072	20.42	0.11015	3.00	34.77	Passed			
	1	24				23.35	-0.20	0.50	0.00	22.65	0.18408	20.50	0.11220	3.00	34.77	Passed			
	1	49				23.33	-0.20	0.50	0.00	22.63	0.18323	20.48	0.11169	3.00	34.77	Passed			
	25	0				22.18	-0.20	0.50	0.00	21.48	0.14060	19.33	0.08570	3.00	34.77	Passed			
	25	24				22.18	-0.20	0.50	0.00	21.48	0.14060	19.33	0.08570	3.00	34.77	Passed			
	50	0				22.11	-0.20	0.50	0.00	21.41	0.13836	19.26	0.08433	3.00	34.77	Passed			
23230	782.00	16QAM		1	0	22.05	-0.20	0.50	0.00	21.35	0.13646	19.20	0.08318	3.00	34.77	Passed			
				1	24	22.04	-0.20	0.50	0.00	21.34	0.13614	19.19	0.08299	3.00	34.77	Passed			
				1	49	21.69	-0.20	0.50	0.00	20.99	0.12560	18.84	0.07656	3.00	34.77	Passed			
				25	0	21.10	-0.20	0.50	0.00	20.40	0.10965	18.25	0.06683	3.00	34.77	Passed			
				25	24	21.14	-0.20	0.50	0.00	20.44	0.11066	18.29	0.06745	3.00	34.77	Passed			
				50	0	21.07	-0.20	0.50	0.00	20.37	0.10889	18.22	0.06637	3.00	34.77	Passed			
		QPSK		1	0	23.14	-0.20	0.50	0.00	22.44	0.17539	20.29	0.10691	3.00	34.77	Passed			
				1	24	23.42	-0.20	0.50	0.00	22.72	0.18707	20.57	0.11402	3.00	34.77	Passed			
				1	49	23.34	-0.20	0.50	0.00	22.64	0.18365	20.49	0.11194	3.00	34.77	Passed			
				25	0	22.15	-0.20	0.50	0.00	21.45	0.13964	19.30	0.08511	3.00	34.77	Passed			
				25	24	22.02	-0.20	0.50	0.00	21.32	0.13552	19.17	0.08260	3.00	34.77	Passed			
				50	0	22.13	-0.20	0.50	0.00	21.43	0.13900	19.28	0.08472	3.00	34.77	Passed			
16QAM	1	0	22.08	-0.20	0.50	0.00	21.38	0.13740	19.23	0.08375	3.00	34.77	Passed						
	1	24	21.96	-0.20	0.50	0.00	21.26	0.13366	19.11	0.08147	3.00	34.77	Passed						
	1	49	22.16	-0.20	0.50	0.00	21.46	0.13996	19.31	0.08531	3.00	34.77	Passed						
	25	0	21.14	-0.20	0.50	0.00	20.44	0.11066	18.29	0.06745	3.00	34.77	Passed						
	25	24	21.02	-0.20	0.50	0.00	20.32	0.10765	18.17	0.06561	3.00	34.77	Passed						
	50	0	21.05	-0.20	0.50	0.00	20.35	0.10839	18.20	0.06607	3.00	34.77	Passed						
EIRP= RMS Power at Antenna Port + Maximum declared Antenna Gain - Path loss to Antenna Connector - Path loss in Antenna Cable																			
ERP = EIRP - 2.15																			

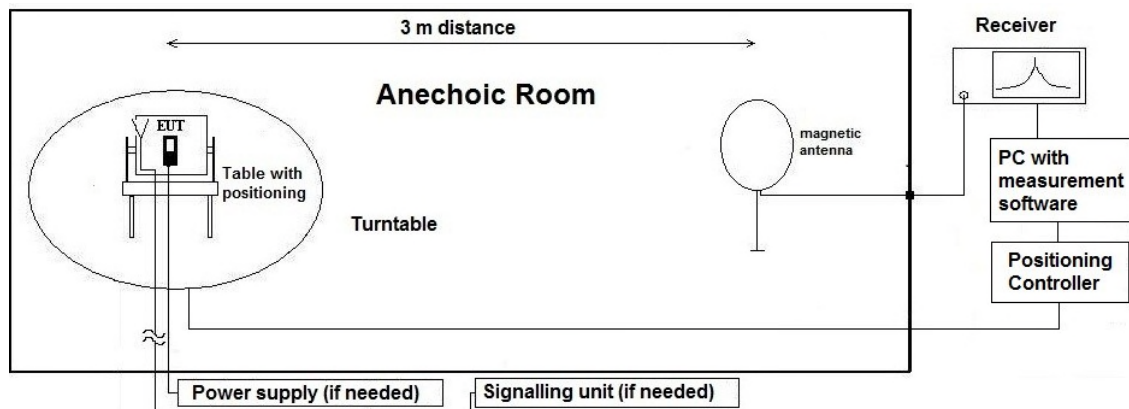
4.2 Radiated field strength emissions below 30 MHz

4.2.1 Description of the general test setup and methodology, see below example:

Evaluating the radiated field emissions are done first by an exploratory emission measurement and a final measurement for most critical frequencies determined.

The loop antenna was placed at 1 m height above ground plane and 3 m measurement distance from set-up for investigations. Because of reduced measurement distance, correction data were applied, as stated in chapter "General Limit - Radiated field strength emissions below 30 MHz". The tests are performed in the semi anechoic room recognized by the regulatory commission.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 0.8 m height which is placed on the turntable. By rotating the turntable (step 90°, range 0° to 360°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT), the emission spectrum was recorded.

The loop antenna was moved at least to 2-perpendicular axes (antenna vector in direction of EUT and parallel to EUT) in order to maximize the emissions. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a data reduction table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by maintaining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself either over 3-orthogonal axis (not defined usage position) or 2-orthogonal axis (defined usage position).

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

Formula:

$$E_C = E_R + AF + C_L + D_F - G_A$$

$$M = L_T - E_C$$

AF = Antenna factor

C_L = Cable loss

D_F = Distance correction factor (if used)

E_C = Electrical field – corrected value

E_R = Receiver reading

G_A = Gain of pre-amplifier (if used)

L_T = Limit

M = Margin

All units are dB-units, positive margin means value is below limit.

4.2.2 Sample calculation

Raw-Value [dBuV/m]	Antenna factor	Distance Correction [dB]	Cable Loss	Preamplifier	Resulting correction value [dB]	Final result [dBuV/m]	Remarks
19.83	18.9	-70.75	0.18	--	-51.67	-31.83	30 to 3 m correction used according ANSI C63.10-2013

Remark: This calculation is based on an example value at 458 kHz

4.2.3 Correction factors due to reduced meas. distance ($f < 30$ MHz):

The used correction factors when the measurement distance is reduced compared to regulatory measurement distance, are calculated according Extrapolation formulas valid for EUT's with maximum dimension of $0.625 \times \text{Lambda}$. Formula 2+3+4 as presented in ANSI C63.10, Chapter 6.4.4 are used for the calculations of proper extrapolation factors

Frequency Range	f [kHz/MHz]	Lambda [m]	Far-Field Point [m]	Distance Limit accord. 15.209 [m]	1st Condition (dmeas < Dnear-field)	2nd Condition (Limit distance bigger dnear-field)	Distance Correction accord. Formula
kHz	9	33333.33	5305.17	300	fulfilled	not fulfilled	-80.00
	10	30000.00	4774.65		fulfilled	not fulfilled	-80.00
	20	15000.00	2387.33		fulfilled	not fulfilled	-80.00
	30	10000.00	1591.55		fulfilled	not fulfilled	-80.00
	40	7500.00	1193.66		fulfilled	not fulfilled	-80.00
	50	6000.00	954.93		fulfilled	not fulfilled	-80.00
	60	5000.00	795.78		fulfilled	not fulfilled	-80.00
	70	4285.71	682.09		fulfilled	not fulfilled	-80.00
	80	3750.00	596.83		fulfilled	not fulfilled	-80.00
	90	3333.33	530.52		fulfilled	not fulfilled	-80.00
	100	3000.00	477.47		fulfilled	not fulfilled	-80.00
	125	2400.00	381.97		fulfilled	not fulfilled	-80.00
	200	1500.00	238.73		fulfilled	fulfilled	-78.02
	300	1000.00	159.16		fulfilled	fulfilled	-74.49
	400	750.00	119.37		fulfilled	fulfilled	-72.00
	490	612.24	97.44		fulfilled	fulfilled	-70.23
	500	600.00	95.49	30	fulfilled	not fulfilled	-40.00
	600	500.00	79.58		fulfilled	not fulfilled	-40.00
	700	428.57	68.21		fulfilled	not fulfilled	-40.00
	800	375.00	59.68		fulfilled	not fulfilled	-40.00
	900	333.33	53.05		fulfilled	not fulfilled	-40.00
	1.00	300.00	47.75		fulfilled	not fulfilled	-40.00
	1.59	188.50	30.00		fulfilled	not fulfilled	-40.00
	2.00	150.00	23.87		fulfilled	fulfilled	-38.02
	3.00	100.00	15.92		fulfilled	fulfilled	-34.49
	4.00	75.00	11.94		fulfilled	fulfilled	-32.00
	5.00	60.00	9.55		fulfilled	fulfilled	-30.06
	6.00	50.00	7.96		fulfilled	fulfilled	-28.47
	7.00	42.86	6.82		fulfilled	fulfilled	-27.13
	8.00	37.50	5.97		fulfilled	fulfilled	-25.97
	9.00	33.33	5.31		fulfilled	fulfilled	-24.95
	10.00	30.00	4.77		fulfilled	fulfilled	-24.04
	10.60	28.30	4.50		fulfilled	fulfilled	-23.53
	11.00	27.27	4.34		fulfilled	fulfilled	-23.21
MHz	12.00	25.00	3.98		fulfilled	fulfilled	-22.45
	13.56	22.12	3.52		fulfilled	fulfilled	-21.39
	15.00	20.00	3.18		fulfilled	fulfilled	-20.51
	15.92	18.85	3.00		fulfilled	fulfilled	-20.00
	17.00	17.65	2.81		not fulfilled	fulfilled	-20.00
	18.00	16.67	2.65		not fulfilled	fulfilled	-20.00
	20.00	15.00	2.39		not fulfilled	fulfilled	-20.00
	21.00	14.29	2.27		not fulfilled	fulfilled	-20.00
	23.00	13.04	2.08		not fulfilled	fulfilled	-20.00
	25.00	12.00	1.91		not fulfilled	fulfilled	-20.00
	27.00	11.11	1.77		not fulfilled	fulfilled	-20.00
	29.00	10.34	1.65		not fulfilled	fulfilled	-20.00
	30.00	10.00	1.59		not fulfilled	fulfilled	-20.00

4.2.4 Measurement Location

Test site	120901 - SAC3 - Radiated Emission <1GHz
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4.2.5 Limit

Radiated emissions limits (3 meters)					
Frequency Range [MHz]	Limit [$\mu\text{V/m}$]	Limit [$\text{dB}\mu\text{V/m}$]	Distance [m]	Detector	RBW [kHz]
0.009 – 0.09	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Pk & Avg	0.2
0.09 – 0.11	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Quasi peak	0.2
0.11 – 0.15	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Pk & Avg	0.2
0.15 – 0.49	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Pk & Avg	9
0.49 – 1.705	24000 / f [kHz]	87.6 – 20Log(f) (kHz)	30	Quasi peak	9
1.705 - 30	30	29.5	30	Quasi peak	9

*Remark: In Canada same limits apply, just unit reference is different

4.2.6 Result

Diagram	Band	Mode	Maximum Level [$\text{dB}\mu\text{V/m}$] Frequency Range 0.009 – 30 MHz	Result
2.201	LTE2	LTE_FDD_B02_CH_18900	No peaks >6 dB margin found	Passed
2.202	LTE2	LTE_FDD_B02_CH_18900	No peaks >6 dB margin found	Passed
2.401	LTE4	LTE_FDD_B04_CH_20175	No peaks >6 dB margin found	Passed
2.501	LTE5	LTE_FDD_B05_CH_20525	No peaks >6 dB margin found	Passed
2.701	LTE7	LTE_FDD_B07_CH_21375	No peaks >6 dB margin found	Passed
2.1201	LTE12	LTE_FDD_B12_CH_23095	No peaks >6 dB margin found	Passed
2.1301	LTE13	LTE_FDD_B13_CH_23230	No peaks >6 dB margin found	Passed

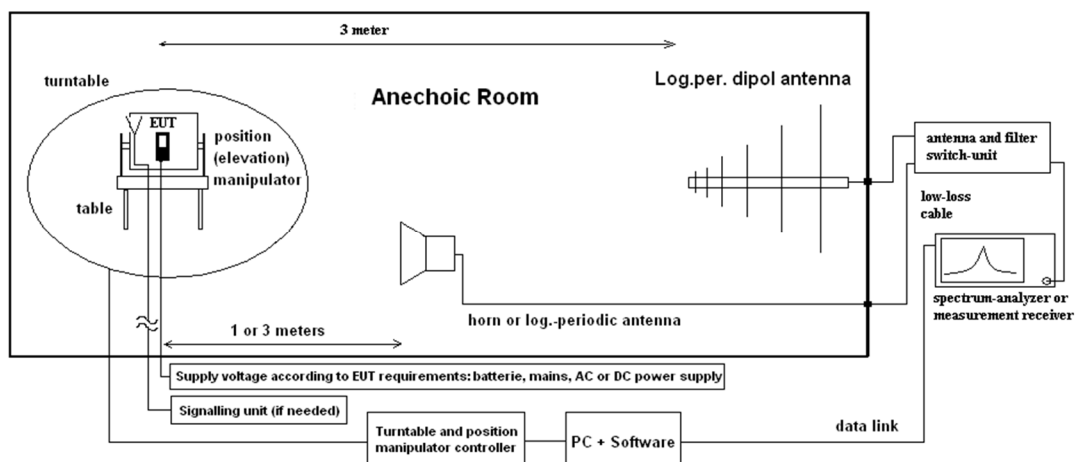
Remark: for more information and graphical plot see annex A1 **TR23-1-0043901T002a-A1**

4.3 Radiated spurious emissions

4.3.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 16-1-4:2010 compliant fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 1.50 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 45°) and the EUT itself on 3-orthogonal axis (the emission spectrum and it's characteristics was recorded with an EMI-receiver, broadband antenna and software.

The measurements are performed in horizontal and vertical polarization of the measurement antennas. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself over 3-orthogonal axis and the height for EUT with large dimensions.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

The readings on the spectrum analyzer are corrected with conversion value between field strength and E(I)RP, so the readings shown are equivalent to ERP/EIRP values. Critical measurements near the limit are re-measured with a substitution method accord. ANSI/TIA/EIA 603 C/D

Formula:

$$P_{EIRP} = P_{MEAS} + C_L + FSL - G_{PreA} - G_{ANT} \quad (1)$$

P_{MEAS} = measured power at instrument

M = Margin

L_T = Limit

FSL = Free Space loss = Function(frequency, measurement distance)

$$M = L_T - P_{EIRP}$$

C_L = cable loss

G_{PreA} = Gain of pre-amplifier (if used)

G_{ANT} = Gain of antenna in [dBi]

All units are dB-units, positive margin means value is below limit.

4.3.2 Measurement Location

Test site	120904 - FAC1 - Radiated Emissions
	120907 - FAC2 - Radiated Emissions

4.3.3 Limit

Operation band	Frequency Range [MHz]	Limit [dBm]	Detector [MaxHold]	RBW / VBW [MHz]
LTE2	30 - 19100	-13	Peak	3 / 3
LTE4	30 - 17500	-13	Peak	3 / 3
LTE5	30 - 8500	-13	Peak	3 / 3
LTE7	30 - 25700	-13	Peak	3 / 3
LTE12	30 - 7200	-13	Peak	3 / 3
LTE13	30 - 8000 763-775 and 793-805 1559 – 1610 1559 – 1610	-13 -35 (RBW = 6.25 kHz, ERP) -40 (RBW = 1 MHz) -50 (RBW = 700 Hz)	Peak	3 / 3

4.3.4 Result

Diagram	Band	Mode	30 MHz to 1000 MHz	1 GHz to 2.8 GHz	2.8 to 10 th Harmonics	Stop Freq [MHz]	Result
8.02	LTE2	LTE_FDD_B02_CH_18900	No peaks >6 dB margin found	No peaks >6 dB margin found	No peaks >6 dB margin found	19100	Passed
8.04	LTE4	LTE_FDD_B04_CH_20175	No peaks >6 dB margin found	No peaks >6 dBm margin found	No peaks >6 dB margin found	17500	Passed
8.05	LTE5	LTE_FDD_B05_CH_20525	No peaks >6 dB margin found	No peaks >6 dB margin found	No peaks >6 dB margin found	8500	Passed
8.07a	LTE7	LTE_FDD_B07_CH_21375	No peaks >6 dB margin found	No peaks >6 dB margin found	No peaks >6 dB margin found	25700	Passed
8.07b	LTE7	LTE_FDD_B07_CH_21375	--	--	No peaks >6 dB margin found	17500	Passed
8.07c.a	LTE7	LTE_FDD_B07_CH_21375_AntH	--	--	No peaks >6 dB margin found	25700	Passed
8.07c.b	LTE7	LTE_FDD_B07_CH_21375_AntV	--	--	No peaks >6 dB margin found	25700	Passed
8.12	LTE12	LTE_FDD_B12_CH_23095	No peaks >6 dB margin found	No peaks >6 dB margin found	No peaks >6 dB margin found	7200	Passed
8.13	LTE13	LTE_FDD_B13_CH_23230	No peaks >6 dB margin found	No peaks >6 dB margin found	No peaks >6 dB margin found	8000	Passed

Diagram	Band	Mode	763 MHz to 806 MHz	1559 MHz to 1610 MHz	Result
8.13a	LTE13	Traffic_mode_LTE_FDD_B13_CH_23230_GPS_Band	No peaks >6 dB margin found	No peaks >6 dB margin found	Passed
8.13b	LTE13	Traffic_mode_LTE_FDD_B13_CH_23230_GPS_Band	No peaks >6 dB margin found	No peaks >6 dB margin found	Passed

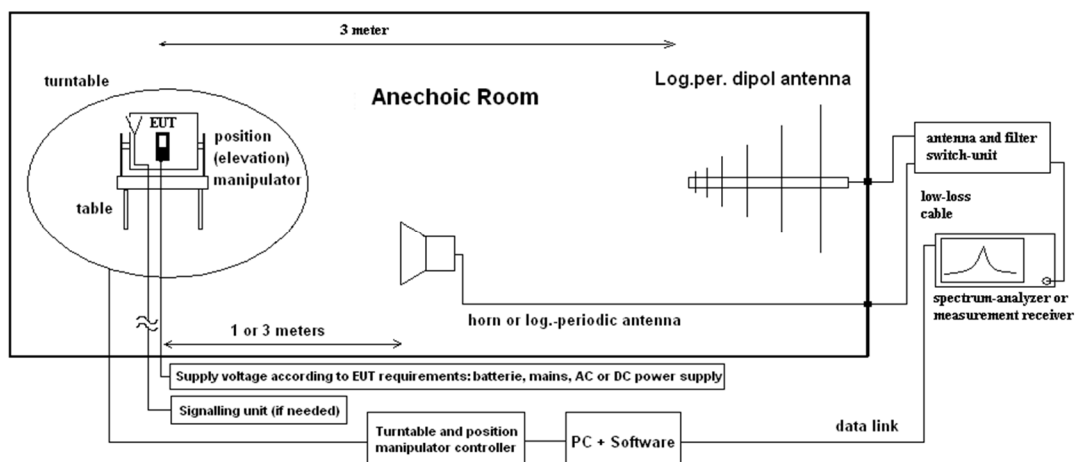
Remark: for more information and graphical plot see annex A1 **TR23-1-0043901T002a-A1**

4.4 Radiated Band Edge

4.4.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 16-1-4:2010 compliant fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:
(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

See chapter Radiated Spurious Emission for Test method.

4.4.2 Measurement Location

Test site	120904 - FAC1 - Radiated Emissions
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4.4.3 Limit

Operation band	Frequency Range [MHz]	Limit [dBm]	Detector [MaxHold]	RBW / VBW [MHz]
LTE2	Below 1850 and above 1910	-13	Peak	0.03 / 0.3
LTE4	Below 1710 and above 1755	-13	Peak	0.03 / 0.3
LTE5	Below 824 and above 849	-13	Peak	0.02 / 0.2
LTE7	2496 - 2499 2499 - 2500 2570 - 2571 2571 - 2575	-10 (RBW = 1 MHz, VBW = 3 MHz) -10 (RBW = 500 kHz, VBW = 2 MHz) -10 (RBW = 500 kHz, VBW = 2 MHz) -10 (RBW = 1 MHz, VBW = 3 MHz)	Peak	0.03 / 0.3

LTE12	698.9 – 699.0 and 716.0 – 716.1 Below 698.9 and above 716.1	-13 (RBW = 30 kHz, VBW = 100 kHz) -13 (RBW = 100 kHz, VBW = 300 kHz)	Peak	0.03 / 0.3
LTE13	776.9 -777 and 787 - 787.1 Below 776.9 and above 787.1 763-775 and 793-805	-13 (RBW = 30 kHz, VBW = 100 kHz) -13 (RBW = 100 kHz, VBW = 300 kHz) -35 (RBW = 10 kHz, VBW = 30 kHz)	Peak	0.03 / 0.3

4.4.4 Result

Diagram	Band	Mode	Edge [Low / High]	Value [dBm]	Result
9.201	LTE2	Bandedge_low_LTE_FDD_B02_CH_low_RB_1_low	Low	-26.024	Passed
9.202	LTE2	Bandedge_low_LTE_FDD_B02_CH_low_RB_Full	Low	-25.12	Passed
9.203	LTE2	Bandedge_high_LTE_FDD_B02_CH_high_RB_1_high	High	-25.752	Passed
9.204	LTE2	Bandedge_high_LTE_FDD_B02_CH_high_RB_Full	High	-29.08	Passed
9.401	LTE4	Bandedge_low_LTE_FDD_B04_CH_low_RB_1_low	Low	-27.30	Passed
9.402	LTE4	Bandedge_low_LTE_FDD_B04_CH_low_RB_Full	Low	-25.12	Passed
9.403	LTE4	Bandedge_high_LTE_FDD_B04_CH_high_RB_1_high	High	-26.17	Passed
9.404	LTE4	Bandedge_high_LTE_FDD_B04_CH_high_RB_Full	High	-23.33	Passed
9.501	LTE5	Bandedge_low_LTE_FDD_B05_CH_low_RB_1_low	Low	-24.66	Passed
9.502	LTE5	Bandedge_low_LTE_FDD_B05_CH_low_RB_Full	Low	-32.31	Passed
9.503	LTE5	Bandedge_high_LTE_FDD_B05_CH_high_RB_1_high	High	-48.35	Passed
9.504	LTE5	Bandedge_high_LTE_FDD_B05_CH_high_RB_Full	High	-48.39	Passed
9.701a	LTE7	BE_low_Ch20825_1RB_low_A82_E90_AntH	Low	-31.29	Passed
9.701b	LTE7	BE_low_Ch20825_1RB_low_A87_E90_AntV	Low	-29.11	Passed
9.702a	LTE7	BE_low_Ch20825_75RBs_A82_E90_AntH	Low	-28.97	Passed
9.702b	LTE7	BE_low_Ch20825_75RBs_A87_E90_AntV	Low	-26.95	Passed
9.703a_02	LTE7	BE_high_Sweep1_Ch21375_1RBhigh_A80_E90_AntH	High	-30.36	Passed
9.703b_02	LTE7	BE_high_Sweep1_Ch21375_1RBhigh_A78_E90_AntV	High	-30.41	Passed
9.704a_02	LTE7	BE_high_Sweep1_Ch21375_RB75_A80_E90_AntH	High	-32.77	Passed
9.704b_02	LTE7	BE_high_Sweep1_Ch21375_RB75_A78_E90_AntV	High	-28.17	Passed
9.1201	LTE12	Bandedge_low_LTE_FDD_B12_CH_low_RB_1_low	Low	-53.81	Passed
9.1202	LTE12	Bandedge_low_LTE_FDD_B12_CH_low_RB_Full	Low	-40.18	Passed
9.1203	LTE12	Bandedge_high_LTE_FDD_B12_CH_high_RB_1_high	High	-49.56	Passed
9.1204	LTE12	Bandedge_high_LTE_FDD_B12_CH_high_RB_Full	High	-49.84	Passed
9.1301	LTE13	Bandedge_low_LTE_FDD_B13_CH_low_RB_1_low	Low	-54.66	Passed
9.1302	LTE13	Bandedge_low_LTE_FDD_B13_CH_low_RB_full	Low	-40.58	Passed
9.1303	LTE13	Bandedge_high_LTE_FDD_B13_CH_high_RB_1_high	High	-58.2	Passed
9.1304	LTE13	Bandedge_high_LTE_FDD_B13_CH_high_RB_Full	High	-50.95	Passed

Remark: for more information and graphical plot see annex A1 **TR23-1-0043901T002a-A1**

4.5 Equipment lists

ID	Description	Manufacturer	SerNo	CheckType	Last Check	Interval	Next Check
	120901 - SAC3 - Radiated Emission <1GHz			calchk	cal: 2015-Jul-21	cal: 10Y	cal: 2025-Jul-21
20341	Digital Multimeter Fluke 112	Fluke Deutschland GmbH / Glottertal	81650455	cal	cal: 2022-May-18	cal: 24M	cal: 2024-May-18
20442	Semi Anechoic Chamber	ETS-Lindgren GmbH / Taufkirchen	-	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20482	filter matrix Filter matrix SAR 1	CETECOM GmbH	-	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20574	Biconilog Hybrid Antenna BTA-L	Frankonia GmbH / Heideck	980026L	cal	cal: 2022-Jun-15	cal: 36M	cal: 2025-Jun-15
20620	Test Receiver ESU26	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100362	cal	cal: 2023-May-24	cal: 12M	cal: 2024-May-24
20885	Power Supply EA3632A	Agilent Technologies Deutschland GmbH	75305850	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
25038	Loop Antenna HFH2-Z2	Rohde & Schwarz Messgerätebau GmbH / Memmingen	879824/13	cal	cal: 2022-Jul-04	cal: 24M	cal: 2024-Jul-04
	120904 - FAC1 - Radiated Emissions			chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20020	Horn Antenna 3115 (Subst 1)	EMCO Elektronik GmbH	9107-3699	calchk	cal: 2021-Aug-17 chk: 2013-Apr-20	cal: 36M chk: 12M	cal: 2024-Aug-17
20066	Notch Filter WRCT 1900/2200-5/40-10EEK	Wainwright Instruments GmbH	5	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20121	Notch Filter WRCB 1879,5/1880,5EE	Wainwright Instruments GmbH	15	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20122	Notch Filter WRCB 1747/1748	Wainwright Instruments GmbH	12	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20254	High Pass Filter SHC 2600/12750-1.5KK	Trilithic	23042	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20287	Pre-Amplifier 25MHz - 4GHz AMF-2D-100M4G-35-10P	Miteq Inc.	379418	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20290	Notch Filter WRCA 901,9/903,1SS	Wainwright Instruments GmbH	3RR	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20291	High Pass Filter WHJ 2200-4EE	Wainwright Instruments GmbH	14	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20338	Pre-Amplifier 100MHz - 26GHz JS4-00102600-38-5P	Miteq Inc.	838697	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20448	Notch Filter WRCT 1850.0/2170.0-5/40-10SSK	Wainwright Instruments GmbH	5	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20449	Notch Filter WRCT 824.0/894.0-5/40-8SSK	Wainwright Instruments GmbH	1	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20484	Pre-Amplifier 2,5GHz - 18GHz AMF-5D-02501800-25-10P	Miteq Inc.	1244554	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20489	Test Receiver ESU40	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100030	cal	cal: 2023-May-24	cal: 12M	cal: 2024-May-24
20512	Notch Filter WRCA 800/960-02/40-6EEK (GSM 850)	Wainwright Instruments GmbH	24	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20549	Log. Per. Antenna HL025	Rohde & Schwarz Messgerätebau GmbH	1000060	calchk	cal: 2021-Aug-18	cal: 36M chk: 12M	cal: 2024-Aug-18
20558	Fully Anechoic Chamber 1	ETS-Lindgren GmbH / Taufkirchen	-	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20608	Ultrabroadband-Antenna HL562	Rohde & Schwarz Messgerätebau GmbH / Memmingen	830547/009	cal	cal: 2023-Jul-04	cal: 36M	cal: 2026-Jul-04
20611	Power Supply E3632A	Agilent Technologies Deutschland GmbH	KR 75305854	cpu			
20690	Spectrum Analyzer FSU	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100302/026	cal	cal: 2023-May-25	cal: 24M	cal: 2025-May-25
20720	Measurement Software EMC32 [FAC]	Rohde & Schwarz Messgerätebau GmbH	V10.xx	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20868	High Pass Filter AFH-07000	AtlanTecRF	16071300004	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20883	Open Switch and control Platform OSP-B200S2 Satellite	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101432	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
20884	Open Switch and control Platform OSP320	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101391	chk	chk: 2023-Aug-22	chk: 12M	chk: 2024-Aug-22
	120907 - FAC2 - Radiated Emissions			chk	chk: 2023-Feb-21	chk: 12M	chk: 2024-Feb-21
20005	AC - LISN 50 Ohm/50µH ESH2-Z5	Rohde & Schwarz Messgerätebau GmbH / Memmingen	861741/005	cal	cal: 2023-May-25	cal: 12M	cal: 2024-May-25
20133	Horn Antenna 3115 (Meas 1)	EMCO Elektronik GmbH / Gilching	9012-3629	cal	cal: 2023-May-22	cal: 36M	cal: 2026-May-22
20302	Horn Antenna BBHA9170 (Meas 1)	Schwarzbeck Mess-Elektronik OHG / Schönaun	155	cpu	chk: 2020-Apr-15	chk: 12M	
20303	Horn Antenna BBHA9170 (Subst 1)	Schwarzbeck Mess-Elektronik OHG	156	cpu		chk: 12M	
20354	DC - Power Supply 40A NGPE 40/40		448	cpu			
20412	Fully Anechoic Chamber 2	ETS-Lindgren GmbH / Taufkirchen	without	chk	chk: 2023-Feb-21	chk: 12M	chk: 2024-Feb-21
20729	FS-Z140	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101004	cal	cal: 2023-Jun-16	cal: 36M	cal: 2026-Jun-16
20730	FS-Z110	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101468	cal	cal: 2023-Jun-02	cal: 36M	cal: 2026-Jun-02
20731	FS-Z75	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101022	cal	cal: 2022-May-18	cal: 36M	cal: 2025-May-18
20732	Signal- and Spectrum Analyzer FSW67	Rohde & Schwarz Messgerätebau GmbH / Memmingen	104023	cal	cal: 2023-May-25	cal: 12M	cal: 2024-May-25
20733	Harmonic Mixer FS-Z220	RPG-Radiometer Physics GmbH	101009	cal	cal: 2021-May-27	cal: 36M	cal: 2024-May-27
20734	Harmonic Mixer FS-Z325	RPG-Radiometer Physics GmbH / Meckenheim	101005	cal	cal: 2021-May-27	cal: 36M	cal: 2024-May-27
20765	Pickett-Potter Horn Antenna FH-PP 40-60	RPG-Radiometer Physics GmbH / Meckenheim	010001	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20

ID	Description	Manufacturer	SerNo	CheckType	Last Check	Interval	Next Check
20767	Pickett-Potter Horn Antenna FH-PP 140-220	RPG-Radiometer Physics GmbH / Meckenheim	010011	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20
20811	Horn Antenna ASY-SGH-124-SMA	Antenna Systems Solutions S.L	29F14182337	cal	cal: 2021-Oct-20	cal: 36M	cal: 2024-Oct-20
20812	Pickett-Potter Horn Antenna FH-PP-325	RPG-Radiometer Physics GmbH / Meckenheim	10024	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20
20813	Pickett-Potter Horn Antenna FH-PP 075	RPG-Radiometer Physics GmbH / Meckenheim	10006	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20
20814	Pickett-Potter Horn Antenna FH-PP 140	RPG-Radiometer Physics GmbH / Meckenheim	10008	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20
20815	Pickett-Potter Horn Antenna FH-PP 110	RPG-Radiometer Physics GmbH / Meckenheim	10014	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20
20816	SGH Antenna SGH-26-WR10	Antenal S.L.	1144	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20817	Waveguide Rectangular Horn Antenna SAR-2309-22-S2	ERAVANT / Torrance	13254-01	chk	chk: 2023-Oct-20	chk: 12M	chk: 2024-Oct-20
20836	1-18 GHz Amplifier	Wright Technologies, Inc., Inc. / Roseville	0001	chk		chk: 36M	
20907	Waveguide WR-15 attenuator STA-30-15-M2	SAGE Millimeter Inc.	13256-01	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20908	Waveguide WR 10 attenuator STA-30-10-M2	SAGE Millimeter Inc.	13256-01	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20909	Waveguide Horn Antenna PE9881-24	Pasternack Enterprises, Inc.	37/2016	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20910	Frequency Multiplier 936VF-10/385	MI-Wave, Millimeter Wave Products Inc.	142	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20911	Frequency Multiplier 938WF-10/387	MI-Wave, Millimeter Wave Products Inc.	141	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20913	Phase Amplitude Stable Cable Assembly DC-40GHz	RF-Lambda Europe GmbH	AC19040001	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
25457	DRG Horn Antenna SAS-574	A.H. Systems, Inc. / Chatsworth	383	cal	cal: 2022-Mar-28	cal: 36M	cal: 2025-Mar-28
	Radio Lab						
20902	Wideband Radio Communication Tester CMW500	Rohde & Schwarz Messgerätebau GmbH / Memmingen	168880	cal	cal: 2023-Jun-02	cal: 12M	cal: 2024-Jun-02

Tools used in 'P1M1'

4.5.1 Legend

Note / remarks	Interval of calibration & Verification
12M	12 months
24M	24 months
36M	36 months
10Y	10 Years

Abbreviation Check Type	Description
cnn	Calibration and verification not necessary
cal	Calibration
calchk	Calibration plus intermediate Verification
chk	Verification
cpu	Verification before usage

5 Results from external laboratory

None

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6 Opinions and interpretations

None

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7 List of abbreviations

None

-

8 Measurement Uncertainty valid for conducted/radiated measurements

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor **k**, such that a confidence level of approximately 95% is achieved. For uncertainty determination, each component used in the concrete measurement set-up was taken in account and its contribution to the overall uncertainty according its statistical distribution calculated.

Issue No.	Measurement type	Reference	Frequency range of measurement		Calculated Uncertainty based on confidence level of 95.54%	Remarks
			Start [MHz]	Stop [MHz]		
1	Magnetic Field Strength	EN, FCC, JP, IC	0.009	30	4.86	Magnetic loop antenna, Pre-Amp on
2	RF-Output Power (EIRP) Unwanted emissions (EIRP) [dB]	EN, FCC, JP, IC	30	100	4.57	without Pre-Amp
			30	100	4.91	with Pre-Amp
			100	1000	4.02	without Pre-Amp
			100	1000	4.26	with Pre-Amp
			1000	18000	4.36	without Pre-Amp
			1000	18000	5.23	with Pre-Amp
			18000	33000	4.92	Schwarzbeck BBHA9170 (#20302) Antenna set-up non-waveguide antenna)
			33000	50000	4.17	Set-up for Q-Band (WR-22), non-wave guide antenna
			40000	60000	4.69	Set-up U-Band (WR-19), non-waveguide antenna
			50000	75000	4.06	External Mixer set-up V-Band (WR-15)
			75000	110000	4.17	External Mixer set-up W-Band (WR-6)
			90000	140000	5.49	External Mixer set-up F-Band (WR-8)
			140000	225000	6.22	External Mixer set-up G-Band (WR-5)
			225000	325000	7.04	External Mixer set-up (WR-3)
			325000	500000	8.84	External Mixer set-up (WR-2.2)
3	Radiated Blocking [dB]	EN	1000	18000	2.85	Typical set-up with microwave generator and antenna, value for 7 GHz calculated
			18000	33000	4.66	Typical set-up with microwave generator and antenna
			33000	50000	3.48	WR-22 set-up
			50000	75000	3.73	WR-15 set-up
			75000	110000	4.26	WR-6 set-up
4	Frequency Error / UWB+FMCW [kHz]	EN, FCC, JP, ISCED	40000	77000	276.19	calculated for 77 GHz (FMCW) carrier
	Frequency Error / NFC [Hz]	EN, FCC, JP, ISCED	6000	7000	33.92	calculated for 6.5 GHz UWB Ch.5
			11.00	14.00	20.76	calculated for 13.56 MHz NFC carrier
5	TS 8997 Conducted Parameters	FCC15/18 / ISCED	30	6000	1.11	1. Power measurement with Fast-sampling-detector
			30	6000	1.20	2. Power measurement with Spectrum-Analyzer
			30	6000	1.20	3. Power Spectrum-Density measurement
			30	7500	1.20	4. Conducted Spurious emissions
			0.009	30	2.56	5. Conducted Spurious emissions
			2.4	2.48	1.95 ppm	6a. Bandwidth / 2-Marker Method for 2.4 GHz ISM
			5.18	5.825	7.180 ppm	6b. Bandwidth / 2-Marker Method for 5 GHz WLAN
			5.18	5.825	1.099 ppm	7. Frequency (Marker method) for 5 GHz WLAN
			30	6000	0.11561 µs	8. Medium-Utilization factor / Timing
			30	6000	1.85	9a. Blocking-Level of companion device
			30	6000	1.62	9b. Blocking Generator level
6	Conducted Emissions	EN, FCC	0.009	30	3.57	general EMI-measurements on AC/DC ports

9 Versions of test reports (change history)

Version	Applied changes	Date of release
--	Initial release	2024-Feb-07
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End Of Test Report