

TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H,
Part 24 Subpart E, Part 27 Subpart C and Part 90 Subpart S

FCC ID: BEJTN1T23NR

Equipment Under Test : Telematics
Model Name : TN1T23NR
Variant Model Name(s) : Refer to the page 4
Applicant : LG Electronics USA
Manufacturer : LG Electronics Inc.
Date of Receipt : 2022.11.04
Date of Test(s) : 2022.11.04 ~ 2023.01.30
Date of Issue : 2023.01.31

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:



Teo Kim

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

Applicant : LG Electronics USA

Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632

Contact Person : Cho, Hee-jae

Phone No. : +1 201 470 2696

1.3. Details of Manufacturer

Company : LG Electronics Inc.

Address : 10, Magokjungang 10-ro, Gangseo-gu, Seoul, Korea, 07796

1.4. Description of EUT

Kind of Product		Telematics
Model Name		TN1T23NR
Variant Model Names		TN1T23NE
Serial Number		351121620119490
Power Supply		DC 12.5 V
Rated Power	SIM 1	LTE Band 2, 4, 5, 7, 12, 17, 26: 23 dB m LTE Band 41: 26 dB m
	SIM 2	LTE Band 2, 4, 5, 7, 26: 23 dB m LTE Band 41: 26 dB m
Frequency Range	SIM 1	LTE Band 2: 1 850 MHz ~ 1 910 MHz LTE Band 4: 1 710 MHz ~ 1 755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2 500 MHz ~ 2 570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26(Part 90): 814 MHz ~ 824 MHz LTE Band 26(Part 22): 824 MHz ~ 849 MHz LTE Band 41: 2 496 MHz ~ 2 690 MHz
	SIM 2	LTE Band 2: 1 850 MHz ~ 1 910 MHz LTE Band 4: 1 710 MHz ~ 1 755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2 500 MHz ~ 2 570 MHz LTE Band 26(Part 90): 814 MHz ~ 824 MHz LTE Band 26(Part 22): 824 MHz ~ 849 MHz LTE Band 41: 2 496 MHz ~ 2 690 MHz
Modulation Technique		QPSK, 16QAM
Antenna Type	SIM 1	External Antenna
	SIM 2	External Antenna
Antenna Gain*	SIM 1	699 MHz ~ 716 MHz: 2.6 dB i 704 MHz ~ 716 MHz: 2.6 dB i 814 MHz ~ 824 MHz: 2.1 dB i 824 MHz ~ 849 MHz: 2.1 dB i 1 710 MHz ~ 1 755 MHz: 5.4 dB i 1 850 MHz ~ 1 910 MHz: 6.2 dB i 2 500 MHz ~ 2 570 MHz: 6.6 dB i 2 496 MHz ~ 2 690 MHz: 6.6 dB i
	SIM 2	814 MHz ~ 824 MHz: 5 dB i 824 MHz ~ 849 MHz: 5 dB i 1 710 MHz ~ 1 755 MHz: 5 dB i 1 850 MHz ~ 1 910 MHz: 5 dB i 2 500 MHz ~ 2 570 MHz: 5 dB i 2 496 MHz ~ 2 690 MHz: 5 dB i
H/W Version		Rev.D1
S/W Version		v004.144.010

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	Oct. 13, 2022	Annual	Oct. 13, 2023
Signal Generator	R&S	SMBV100A	255834	May 25, 2022	Annual	May 25, 2023
Spectrum Analyzer	R&S	FSV30	103210	Dec. 07, 2022	Annual	Dec. 07, 2023
Spectrum Analyzer	Agilent	N9020A	MY53421758	Aug. 26, 2022	Annual	Aug. 26, 2023
Mobile Test Unit	R&S	CMW 500	144034	Feb. 21, 2022	Annual	Feb. 21, 2023
Communication Analyzer	Anritsu	MT8821C	6262192291	Oct. 11, 2022	Annual	Oct. 11, 2023
Power Meter	Anritsu	ML2495A	1223004	Nov. 29, 2022	Annual	Nov. 29, 2023
Power Sensor	Anritsu	MA2411B	1207272	May 27, 2022	Annual	May 27, 2023
Power Splitter	Weinschel	1534	499	May 31, 2022	Annual	May 31, 2023
Temperature Chamber	ESPEC CORP.	SH-662	93000533	Jun. 02, 2022	Annual	Jun. 02, 2023
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Feb. 10, 2022	Annual	Feb. 10, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	Mar. 04, 2022	Annual	Mar. 04, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX2.2/12.75G-10SS	8	Mar. 04, 2022	Annual	Mar. 04, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	21	Jun. 09, 2022	Annual	Jun. 09, 2023
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	Oct. 24, 2022	Annual	Oct. 24, 2023
BRIDGE COUPLER	MARKI MICROWAVE INC	CBR16-0012	1542	May 06, 2022	Annual	May 06, 2023
Directional Coupler	KRYTAR	152613	122660	Jul. 06, 2022	Annual	Jul. 06, 2023
DC Power Supply	Agilent	U8002A	MY49030063	Jan. 25, 2022	Annual	Jan. 25, 2023
Preamplifier	H.P.	8447F	2944A03909	Aug. 04, 2022	Annual	Aug. 04, 2023
Preamplifier	R&S	SCU 18	10117	Jun. 13, 2022	Annual	Jun. 13, 2023
Preamplifier	TESTEK	TK-PA1840H	130016	Jan. 11, 2023	Annual	Jan. 11, 2024
Test Receiver	R&S	ESCI 7	100911	Feb. 23, 2022	Annual	Feb. 23, 2023
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2021	Biennial	Aug. 23, 2023
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	Feb. 07, 2022	Annual	Feb. 07, 2023
Horn Antenna	R&S	HF906	100326	Feb. 18, 2022	Annual	Feb. 18, 2023
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	Nov. 30, 2022	Annual	Nov. 30, 2023
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L x W x H (9.6 m x 6.4 m x 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RFONE	MWX221-NMSNMS (4 m)	J1023142	Oct. 04, 2022	Semi-Annual	Apr. 04, 2023
Coaxial Cable	Qualwave Inc.	QA500-18-NN-10 (10 m)	22200114	Oct. 04, 2022	Semi-Annual	Apr. 04, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182287	Aug. 18, 2022	Semi-Annual	Feb. 18, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182288	Aug. 18, 2022	Semi-Annual	Feb. 18, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182291	Aug. 18, 2022	Semi-Annual	Feb. 18, 2023

Note;

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2, 22, 24, 27 and 90		
Section(s)	Test Item(s)	Result
§2.1046 §22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635(b)	E.R.P. / E.I.R.P.	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Radiated Spurious Emissions	Complied
§2.1046	Conducted Output Power	Complied
§2.1049	Occupied Bandwidth	Complied
§22.913(d) §24.232(d) §27.50(d)(5)	Peak-Average Ratio	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Spurious Emission at Antenna Terminal	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Band Edge and Emission Mask	Complied
§2.1055 §22.355 §24.235 §27.54 §90.213(a)	Frequency Stability	Complied

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Conducted Test

Offset value (dB) = Directional Coupler (dB) + Cable loss (dB)

1.7.2. Radiation test

- E.I.R.P. (dB m) = Measured level (dB μ V) + Antenna factor (dB/m) + Cable loss (dB) + 20 Log D - 104.8;
where D is the measurement distance in meters.
- E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB)

1.8. Device Capabilities

This device contains the following capabilities;

LTE Band 17 (704 MHz ~ 716 MHz) is covered by LTE Band 12 (699 MHz ~ 716 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 17 as well as Band 12.

LTE Band 5 (824 MHz ~ 849 MHz) is covered by LTE Band 26 (824 MHz ~ 849 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 5 as well as Band 26.

1.9. Manufacturer Declaration

EUT has two (SIM1 and SIM2) ports, all testing were performed both SIM1, SIM2.

1.10. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using QPSK and 16QAM modulations. However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power in QPSK.

The peak to average ratio were tested only 16QAM modulation as worst case.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

1.11. Measurement Configuration

SIM1

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #			
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	
Conducted Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	7	V	V	V			V	V	V	V	V	V	V	V	V	V
	*12/17	V	V	V	V	V	V	V			V	V	V	V	V	V
	**26/5 Part22	V	V	V	V	V	V	V	V		V	V	V	V	V	V
	26 Part90	V	V	V	V	V	V	V	V		V	V	V	V	V	V
	41	V	V	V			V	V	V	V	V	V	V	V	V	V
Frequency Stability	2	-	V	-	-	-	V	-	-	-	V	-	-	-	V	
	4	-	V	-	-	-	V	-	-	-	V	-	-	-	V	
	7	-	V	-			V	-	-	-	V	-	-	-	V	
	*12/17	-	V	-	-	-	V	-	-		V	-	-	-	V	
	**26/5 Part22	-	V	-	-	-	V	-	-		V	-	-	-	V	
	26 Part90	-	V	-	-	-	V	-	-		V	-	-	-	V	
	41	-	V	-			V	-	-	-	V	-	-	-	V	
Occupied Bandwidth	2	-	V	-	V	V	V	V	V	V	V	V	-	-	V	
	4	-	V	-	V	V	V	V	V	V	V	V	-	-	V	
	7	-	V	-			V	V	V	V	V	V	-	-	V	
	*12/17	-	V	-	V	V	V	V			V	V	-	-	V	
	**26/5 Part22	-	V	-	V	V	V	V	V		V	V	-	-	V	
	26 Part90	-	V	-	V	V	V	V	V		V	V	-	-	V	
	41	-	V	-			V	V	V	V	V	V	-	-	V	
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V	-	V	-	-	V	
	4	V	V	V	V	V	V	V	V	V	-	V	-	-	V	
	7	V	V	V			V	V	V	V	-	V	-	-	V	
	*12/17	V	V	V	V	V	V	V			-	V	-	-	V	
	**26/5 Part22	V	V	V	V	V	V	V	V		-	V	-	-	V	
	26 Part90	V	V	V	V	V	V	V	V		-	V	-	-	V	
	41	V	V	V			V	V	V	V	-	V	-	-	V	

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Band edge	2	V	-	V	V	V	V	V	V	V	V	V	V	-	V
	4	V	-	V	V	V	V	V	V	V	V	V	V	-	V
	7	V	-	V			V	V	V	V	V	V	V	-	V
	*12/17	V	-	V	V	V	V	V			V	V	V	-	V
	**26/5 Part22	V	-	V	V	V	V	V	V		V	V	V	-	V
	26 Part90	V	-	V	V	V	V	V	V		V	V	V	-	V
	41	V	-	V			V	V	V	V	V	V	V	-	V
Spurious Emission at Antenna Terminal and Radiated Spurious Emissions	2	V	V	V	Worst case										
	4	V	V	V	Worst case										
	7	V	V	V	Worst case										
	*12/17	V	V	V	Worst case										
	**26/5 Part22	V	V	V	Worst case										
	26 Part90	V	V	V	Worst case										
	41	V	V	V	Worst case										

*B17 is not supported 1.4M and 3M bandwidth.

**B5 is not supported 15M bandwidth.

SIM2

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Conducted Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	7	V	V	V			V	V	V	V	V	V	V	V	V
	*26/5 Part22	V	V	V	V	V	V	V	V		V	V	V	V	V
	26 Part90	V	V	V	V	V	V	V	V		V	V	V	V	V
	41	V	V	V			V	V	V	V	V	V	V	V	V
Frequency Stability	2	-	V	-	-	-	V	-	-	-	V	-	-	-	V
	4	-	V	-	-	-	V	-	-	-	V	-	-	-	V
	7	-	V	-			V	-	-	-	V	-	-	-	V
	*26/5 Part22	-	V	-	-	-	V	-	-		V	-	-	-	V
	26 Part90	-	V	-	-	-	V	-	-		V	-	-	-	V
	41	-	V	-			V	-	-	-	V	-	-	-	V
Occupied Bandwidth	2	-	V	-	V	V	V	V	V	V	V	V	-	-	V
	4	-	V	-	V	V	V	V	V	V	V	V	-	-	V
	7	-	V	-			V	V	V	V	V	V	-	-	V
	*26/5 Part22	-	V	-	V	V	V	V	V		V	V	-	-	V
	26 Part90	-	V	-	V	V	V	V	V		V	V	-	-	V
	41	-	V	-			V	V	V	V	V	V	-	-	V

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #			
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V	V	-	V	-	-	V
	4	V	V	V	V	V	V	V	V	V	V	-	V	-	-	V
	7	V	V	V			V	V	V	V	V	-	V	-	-	V
	*26/5 Part22	V	V	V	V	V	V	V	V	V		-	V	-	-	V
	26 Part90	V	V	V	V	V	V	V	V	V		-	V	-	-	V
	41	V	V	V			V	V	V	V	V	-	V	-	-	V
Band edge	2	V	-	V	V	V	V	V	V	V	V	V	V	V	-	V
	4	V	-	V	V	V	V	V	V	V	V	V	V	V	-	V
	7	V	-	V			V	V	V	V	V	V	V	V	-	V
	*26/5 Part22	V	-	V	V	V	V	V	V	V		V	V	V	-	V
	26 Part90	V	-	V	V	V	V	V	V	V		V	V	V	-	V
	41	V	-	V			V	V	V	V	V	V	V	V	-	V
Spurious Emission at Antenna Terminal and Radiated Spurious Emissions	2	V	V	V	Worst case											
	4	V	V	V	Worst case											
	7	V	V	V	Worst case											
	*26/5 Part22	V	V	V	Worst case											
	26 Part90	V	V	V	Worst case											
	41	V	V	V	Worst case											

*B5 is not supported 15M bandwidth.

1.12. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
RF Output Power	0.32 dB	
Occupied Bandwidth	3.90 kHz	
Conducted Spurious Emissions	0.61 dB	
Peak to Average Ratio	0.60 dB	
Frequency Stability	5.97 kHz	
Radiated Emission, 9 kHz to 30 MHz	H	3.40 dB
	V	3.40 dB
Radiated Emission, below 1 GHz	H	4.50 dB
	V	5.10 dB
Radiated Emission, above 1 GHz	H	3.70 dB
	V	3.90 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

1.13. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL003753	2023.01.31	Initial

1.14. Emission Designator and Max Power

SIM1

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
2	1.4	QPSK	1 850.7	1 909.3	22.50	6.2	28.70	0.741	1M09G7D
		16QAM			22.01		28.21	0.662	1M09D7D
	3	QPSK	1 851.5	1 908.5	22.48		28.68	0.738	2M70G7D
		16QAM			21.90		28.10	0.646	2M70D7D
	5	QPSK	1 852.5	1 907.5	22.48		28.68	0.738	4M49G7D
		16QAM			21.68		27.88	0.614	4M51D7D
	10	QPSK	1 855	1 905	22.29		28.49	0.706	8M92G7D
		16QAM			21.85		28.05	0.638	8M92D7D
	15	QPSK	1 857.5	1 902.5	22.36		28.56	0.718	13M5G7D
		16QAM			21.53		27.73	0.593	13M4D7D
	20	QPSK	1 860	1 900	22.42		28.62	0.728	17M9G7D
		16QAM			21.46		27.66	0.583	17M9D7D
4	1.4	QPSK	1 710.7	1 754.3	21.85	5.4	27.25	0.531	1M10G7D
		16QAM			21.35		26.75	0.473	1M09D7D
	3	QPSK	1 711.5	1 753.5	21.95		27.35	0.543	2M68G7D
		16QAM			21.48		26.88	0.488	2M70D7D
	5	QPSK	1 712.5	1 752.5	22.15		27.55	0.569	4M49G7D
		16QAM			21.48		26.88	0.488	4M51D7D
	10	QPSK	1 715	1 750	21.97		27.37	0.546	8M95G7D
		16QAM			21.46		26.86	0.485	8M95D7D
	15	QPSK	1 717.5	1 747.5	22.02		27.42	0.552	13M5G7D
		16QAM			21.25		26.65	0.462	13M5D7D
	20	QPSK	1 720	1 745	22.00		27.40	0.550	17M9G7D
		16QAM			21.32		26.72	0.470	17M9D7D
7	5	QPSK	2 502.5	2 567.5	22.32	6.6	28.92	0.780	4M49G7D
		16QAM			21.72		28.32	0.679	4M49D7D
	10	QPSK	2 505	2 565	22.33		28.93	0.782	8M92G7D
		16QAM			21.73		28.33	0.681	8M92D7D
	15	QPSK	2 507.5	2 562.5	22.19		28.79	0.757	13M4G7D
		16QAM			21.58		28.18	0.658	13M5D7D
	20	QPSK	2 510	2 560	22.26		28.86	0.769	17M8G7D
		16QAM			21.60		28.20	0.661	17M9D7D
12	1.4	QPSK	699.7	715.3	22.42	2.6	22.87	0.194	1M09G7D
		16QAM			21.76		22.21	0.166	1M09D7D
	3	QPSK	700.5	714.5	22.19		22.64	0.184	2M68G7D
		16QAM			21.57		22.02	0.159	2M68D7D
12/17	5	QPSK	701.5	713.5	22.41		22.86	0.193	4M49G7D
		16QAM			21.81		22.26	0.168	4M48D7D
	10	QPSK	704	711	22.44		22.89	0.195	8M92G7D
		16QAM			21.74		22.19	0.166	8M92D7D

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator		
26/5 Part 22	1.4	QPSK	824.7	848.3	22.58	2.1	22.53	0.179	1M09G7D		
		16QAM			21.61		21.56	0.143	1M09D7D		
	3	QPSK	825.5	847.5	22.82		22.77	0.189	2M68G7D		
		16QAM			21.67		21.62	0.145	2M68D7D		
	5	QPSK	826.5	846.5	22.88		22.83	0.192	4M49G7D		
		16QAM			21.67		21.62	0.145	4M49D7D		
	10	QPSK	829	844	22.55		22.50	0.178	8M92G7D		
		16QAM			21.64		21.59	0.144	8M92D7D		
	26 Part 22	15	QPSK	831.5	841.5		22.82	22.77	0.189	13M5G7D	
			16QAM				21.45	21.40	0.138	13M5D7D	
26 Part 90	1.4	QPSK	814.7	823.3	22.84	2.1	22.79	0.190	1M10G7D		
		16QAM			22.17		22.12	0.163	1M09D7D		
	3	QPSK	815.5	822.5	23.03		22.98	0.199	2M68G7D		
		16QAM			22.25		22.20	0.166	2M69D7D		
	5	QPSK	816.5	821.5	23.05		23.00	0.200	4M50G7D		
		16QAM			22.34		22.29	0.169	4M51D7D		
	10	QPSK	819		22.39		22.34	0.171	8M92G7D		
		16QAM			21.76		21.71	0.148	8M94D7D		
	15	QPSK	821.5		22.23		22.18	0.165	13M5G7D		
		16QAM			21.62		21.57	0.144	13M5D7D		
	41	5	QPSK	2 498.5	2 687.5		25.11	6.6	31.71	1.483	4M51G7D
			16QAM				24.58		31.18	1.312	4M51D7D
		10	QPSK	2 501	2 685		25.15		31.75	1.496	8M92G7D
			16QAM				24.59		31.19	1.315	8M92D7D
15		QPSK	2 503.5	2 682.5	25.18	31.78	1.507		13M4G7D		
		16QAM			24.63	31.23	1.327		13M5D7D		
20		QPSK	2 506	2 680	25.07	31.67	1.469		17M8G7D		
		16QAM			24.62	31.22	1.324		17M9D7D		

SIM2

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator		
2	1.4	QPSK	1 850.7	1 909.3	23.92	5	28.92	0.780	1M10G7D		
		16QAM			23.87		28.87	0.771	1M09D7D		
	3	QPSK	1 851.5	1 908.5	24.10		29.10	0.813	2M69G7D		
		16QAM			23.39		28.39	0.690	2M70D7D		
	5	QPSK	1 852.5	1 907.5	24.01		29.01	0.796	4M51G7D		
		16QAM			23.33		28.33	0.681	4M51D7D		
	10	QPSK	1 855	1 905	24.02		29.02	0.798	8M92G7D		
		16QAM			23.32		28.32	0.679	8M99D7D		
	15	QPSK	1 857.5	1 902.5	23.92		28.92	0.780	13M5G7D		
		16QAM			23.22		28.22	0.664	13M5D7D		
	20	QPSK	1 860	1 900	24.13		29.13	0.818	18M0G7D		
		16QAM			23.42		28.42	0.695	18M0D7D		
	4	1.4	QPSK	1 710.7	1 754.3		24.13	5	29.13	0.818	1M10G7D
			16QAM				23.59		28.59	0.723	1M09D7D
3		QPSK	1 711.5	1 753.5	24.30	29.30	0.851		2M69G7D		
		16QAM			23.72	28.72	0.745		2M69D7D		
5		QPSK	1 712.5	1 752.5	24.25	29.25	0.841		4M51G7D		
		16QAM			23.68	28.68	0.738		4M49D7D		
10		QPSK	1 715	1 750	24.28	29.28	0.847		8M92G7D		
		16QAM			23.71	28.71	0.743		8M95D7D		
15		QPSK	1 717.5	1 747.5	24.26	29.26	0.843		13M5G7D		
		16QAM			23.74	28.74	0.748		13M5D7D		
20		QPSK	1 720	1 745	24.28	29.28	0.847		18M0G7D		
		16QAM			23.73	28.73	0.746		17M9D7D		
7		5	QPSK	2 502.5	2 567.5	24.09	5		29.09	0.811	4M49G7D
			16QAM			23.54			28.54	0.714	4M49D7D
	10	QPSK	2 505	2 565	24.12	29.12		0.817	8M92G7D		
		16QAM			23.58	28.58		0.721	8M92D7D		
	15	QPSK	2 507.5	2 562.5	24.13	29.13		0.818	13M5G7D		
		16QAM			23.56	28.56		0.718	13M5D7D		
	20	QPSK	2 510	2 560	24.06	29.06		0.805	18M0G7D		
		16QAM			23.49	28.49		0.706	18M0D7D		
26/5 Part 22	1.4	QPSK	824.7	848.3	24.87	5	27.72	0.592	1M09G7D		
		16QAM			24.22		27.07	0.509	1M09D7D		
	3	QPSK	825.5	847.5	25.02		27.87	0.612	2M70G7D		
		16QAM			24.42		27.27	0.533	2M70D7D		
	5	QPSK	826.5	846.5	24.96		27.81	0.604	4M51G7D		
		16QAM			24.36		27.21	0.526	4M51D7D		
	10	QPSK	829	844	24.88		27.73	0.593	8M95G7D		
		16QAM			24.28		27.13	0.516	8M99D7D		
26 Part 22	15	QPSK	831.5	841.5	24.92	27.77	0.598	13M4G7D			
		16QAM			24.28	27.13	0.516	13M4D7D			

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator		
26 Part 90	1.4	QPSK	814.7	823.3	25.09	5	27.94	0.622	1M09G7D		
		16QAM			24.50		27.35	0.543	1M09D7D		
	3	QPSK	815.5	822.5	25.23		28.08	0.643	2M68G7D		
		16QAM			24.81		27.66	0.583	2M70D7D		
	5	QPSK	816.5	821.5	25.17		28.02	0.634	4M51G7D		
		16QAM			24.57		27.42	0.552	4M49D7D		
	10	QPSK	819		25.11		27.96	0.625	8M99G7D		
		16QAM			24.51		27.36	0.545	8M92D7D		
	15	QPSK	821.5		25.05		27.90	0.617	13M5G7D		
		16QAM			24.43		27.28	0.535	13M5D7D		
	41	5	QPSK	2 498.5	2 687.5		26.78	5	31.78	1.507	4M48G7D
			16QAM				26.24		31.24	1.330	4M51D7D
10		QPSK	2 501	2 685	26.86	31.86	1.535		8M95G7D		
		16QAM			26.27	31.27	1.340		8M92D7D		
15		QPSK	2 503.5	2 682.5	26.86	31.86	1.535		13M5G7D		
		16QAM			26.30	31.30	1.349		13M5D7D		
20		QPSK	2 506	2 680	26.76	31.76	1.500		18M0G7D		
		16QAM			26.23	31.23	1.327		17M8D7D		

1.15. Information of Variant Model

Model Name		Differences Hardware Part	Description
Basic Model	TN1T23NR	Reference	Fully mounted on hardware.
Variant Model	TN1T23NE	Remove Band 21 related parts	Not support LTE Band 21
		Remove QPM5679AQ, QDM5679AQ	Not support 5G NR n79

- Supported Cellular Band

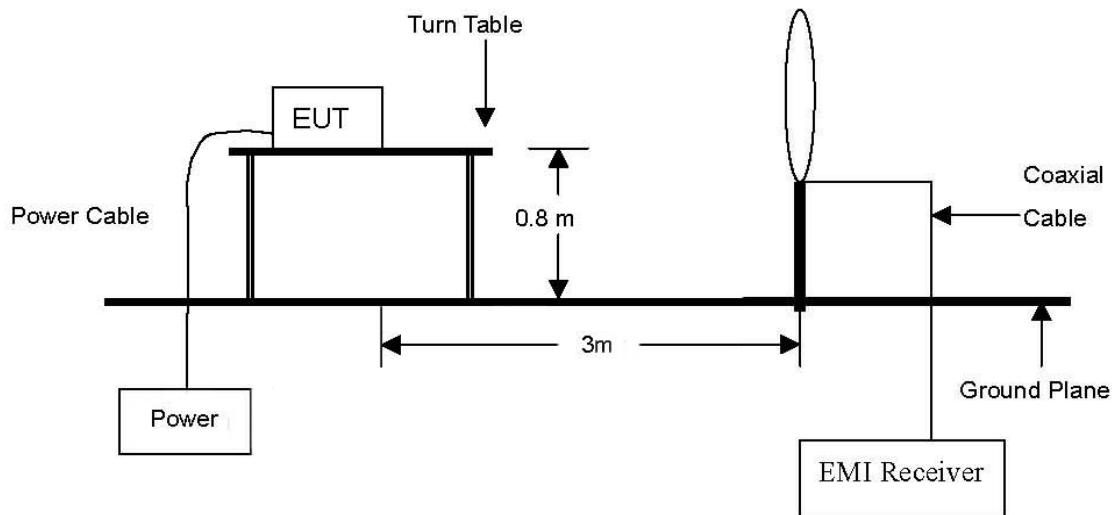
MODEL	Mode	SIM 1	SIM 2
TN1T23NR	GSM	GSM850, PCS1900	GSM850, PCS1900
	WCDMA	B2, B4, B5	N/A
	LTE	B2, B4, B5, B7, B12(B17), B26, B41	B2, B4, B5, B7, B26, B41
	5G Sub6_SA	n41	n41
	5G Sub6_NSA	n41	N/A
TN1T23NE	GSM	N/A	N/A
	WCDMA	B2, B4, B5	N/A
	LTE	B2, B4, B5, B7, B12(B17)	B7
	5G Sub6_SA	N/A	N/A
	5G Sub6_NSA	N/A	N/A

*Operating bands are different by software.

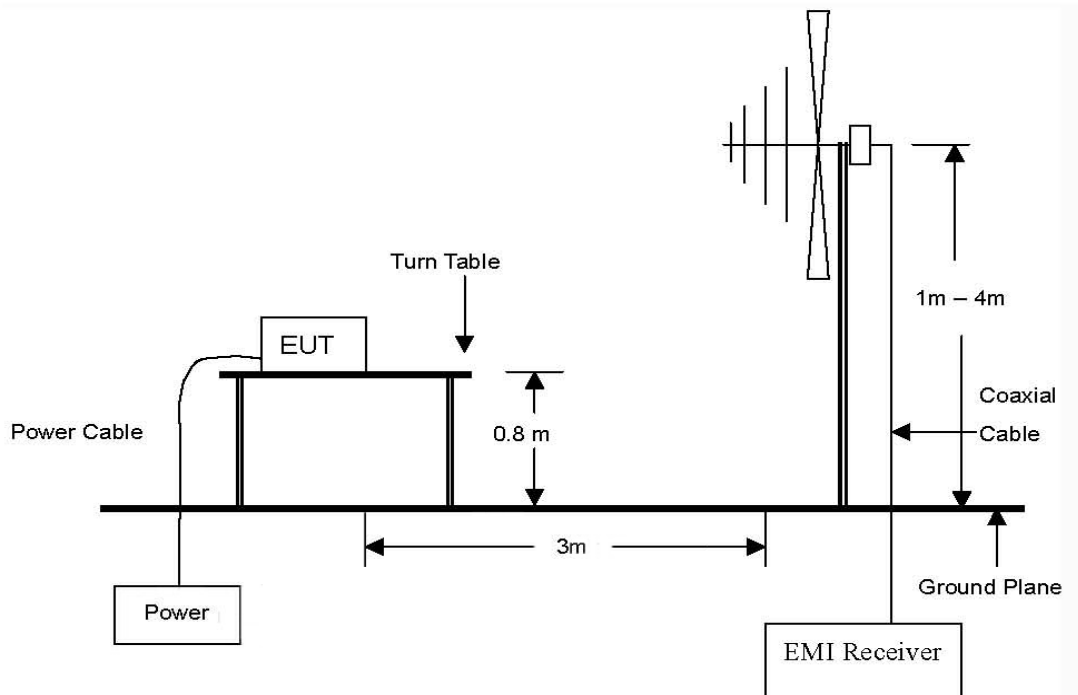
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test setup

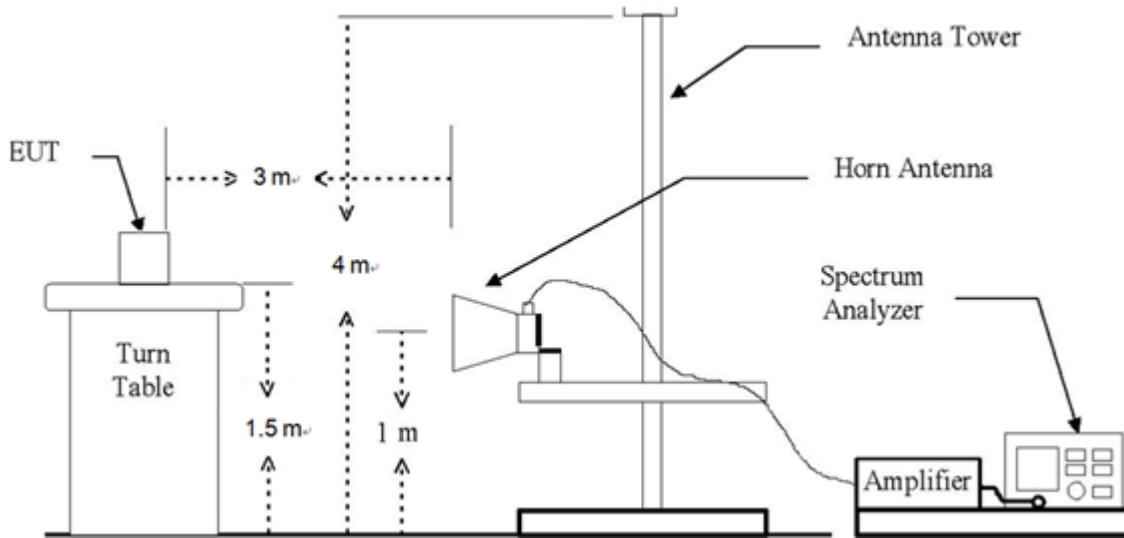
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 27 GHz Emissions.



2.2. Limit

2.2.1. Limit of E.R.P. / E.I.R.P.

- §22.913(a)(5), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
- §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
- §27.50(c)(10), portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.
- §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1 710-1 755 MHz band and mobile and portable stations operating in the 1 695-1 710 MHz and 1 755-1 780 MHz bands are limited to 1 watt EIRP.
- §27.50(h)(2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
- §90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20 dBW).

2.2.2. Limit of Spurious Radiated Emission

- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.
- §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.
- §27.53(g), the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.
- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.
- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10} (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10} (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10} (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log_{10} (P)$ dB on all frequencies between 2 490.5 MHz and 2 496 MHz and $55 + 10 \log_{10} (P)$ dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.
- §90.691(a), out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
 - (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10} (f / 6.1)$ decibels or $50 + 10 \text{ Log}_{10} (P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
 - (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10} (P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

2.3. Test Procedure: Based on ANSI/TIA 603E: 2016 and ANSI C63.26-2015 and KDB 971168 D01 Power Meas License Digital Systems v03r01.

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:
RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW \geq 3 x RBW,
Detector = RMS, trace mode = max hold, per the guidelines of KDB 971168 D01 Power Meas License Digital Systems v03r01.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
11. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
12. The measurement shall be repeated with the test antenna orientated for horizontal polarization.

2.4. Test results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

2.4.1. E.R.P. / E.I.R.P.

SIM 1

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Limit
2	1 850 ~ 1 910	22.50	0.178	6.2	28.70	0.741			2 W E.I.R.P.
4	1 710 ~ 1 755	22.15	0.164	5.4	27.55	0.569			1 W E.I.R.P.
7	2 500 ~ 2 570	22.33	0.171	6.6	28.93	0.782			2 W E.I.R.P.
12/17	699 ~ 716	22.44	0.175	2.6	25.04	0.319	22.89	0.195	3 W E.R.P.
26/5 Part 22	824 ~ 849	22.82	0.191	2.1	24.92	0.310	22.77	0.189	7 W E.R.P.
26 Part 90	814 ~ 824	23.05	0.202	2.1	25.15	0.327	23.00	0.200	100 W
41	2 496 ~ 2 690	25.11	0.324	6.6	31.71	1.483			2 W E.I.R.P.

SIM 2

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Limit
2	1 850 ~ 1 910	24.13	0.259	5	29.13	0.818			2 W E.I.R.P.
4	1 710 ~ 1 755	24.30	0.269	5	29.30	0.851			1 W E.I.R.P.
7	2 500 ~ 2 570	24.13	0.259	5	29.13	0.818			2 W E.I.R.P.
26/5 Part 22	824 ~ 849	25.02	0.318	5	30.02	1.005	27.87	0.612	7 W E.R.P.
26 Part 90	814 ~ 824	25.23	0.333	5	30.23	1.054	28.08	0.643	100 W
41	2 496 ~ 2 690	26.78	0.476	5	31.78	1.507			2 W E.I.R.P.

Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) – 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

2.4.2. Radiated Spurious Emissions

SIM 1

LTE band 2 (1.4 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 850.7 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 909.3 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 4 (5 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 712.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 732.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 752.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 7 (10 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 505 MHz)									
5 018.77	47.66	H	33.00	-35.28	45.38	-95.26	-49.88	-25	24.88
5 018.83	44.96	V	33.00	-35.28	42.68	-95.26	-52.58	-25	27.58
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535 MHz)									
5 078.98	47.04	H	33.12	-35.34	44.82	-95.26	-50.44	-25	25.44
5 078.64	47.05	V	33.11	-35.34	44.82	-95.26	-50.44	-25	25.44
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 565 MHz)									
5 138.74	46.28	H	33.28	-35.47	44.09	-95.26	-51.17	-25	26.17
5 138.74	46.16	V	33.28	-35.47	43.97	-95.26	-51.29	-25	26.29
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-

LTE band 12/17 (10 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (704 MHz)									
1 124.96	50.33	V	24.85	-40.17	35.01	-97.41	-62.40	-13	49.40
1 374.91	47.30	V	25.10	-39.17	33.23	-97.41	-64.18	-13	51.18
1 624.94	51.69	H	25.55	-38.61	38.63	-97.41	-58.78	-13	45.78
1 624.75	49.42	V	25.55	-38.61	36.36	-97.41	-61.05	-13	48.05
2 166.67	47.77	V	27.63	-36.48	38.92	-97.41	-58.49	-13	45.49
2 400.03	55.44	H	28.10	-36.23	47.31	-97.41	-50.10	-13	37.10
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 MHz)									
1 125.18	50.67	V	24.85	-40.16	35.36	-97.41	-62.05	-13	49.05
1 374.79	48.68	V	25.10	-39.17	34.61	-97.41	-62.80	-13	49.80
1 624.98	51.10	H	25.55	-38.61	38.04	-97.41	-59.37	-13	46.37
1 625.00	50.00	V	25.55	-38.61	36.94	-97.41	-60.47	-13	47.47
2 166.75	48.35	V	27.63	-36.48	39.50	-97.41	-57.91	-13	44.91
2 400.37	53.40	H	28.10	-36.24	45.26	-97.41	-52.15	-13	39.15
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
High Channel (711 MHz)									
1 125.16	50.78	V	24.85	-40.16	35.47	-97.41	-61.94	-13	48.94
1 375.35	47.29	V	25.10	-39.17	33.22	-97.41	-64.19	-13	51.19
1 625.20	51.12	H	25.55	-38.61	38.06	-97.41	-59.35	-13	46.35
1 625.00	49.84	V	25.55	-38.61	36.78	-97.41	-60.63	-13	47.63
2 166.74	47.73	V	27.63	-36.48	38.88	-97.41	-58.53	-13	45.53
2 400.03	55.19	H	28.10	-36.23	47.06	-97.41	-50.35	-13	37.35
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26/5 Part 22 (5 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (826.5 MHz)									
1 625.05	49.78	H	25.55	-38.61	36.72	-97.41	-60.69	-13	47.69
1 625.09	49.49	V	25.55	-38.61	36.43	-97.41	-60.98	-13	47.98
2 400.00	57.55	H	28.10	-36.23	49.42	-97.41	-47.99	-13	34.99
2 399.69	50.71	V	28.10	-36.23	42.58	-97.41	-54.83	-13	41.83
4 121.60	46.04	H	31.94	-36.21	41.77	-97.41	-55.64	-13	42.64
4 121.53	44.87	V	31.94	-36.21	40.60	-97.41	-56.81	-13	43.81
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
1 624.87	49.70	H	25.55	-38.61	36.64	-97.41	-60.77	-13	47.77
1 625.17	50.16	V	25.55	-38.61	37.10	-97.41	-60.31	-13	47.31
2 399.38	53.23	H	28.10	-36.23	45.10	-97.41	-52.31	-13	39.31
2 399.98	49.36	V	28.10	-36.23	41.23	-97.41	-56.18	-13	43.18
4 171.78	44.94	V	31.96	-36.22	40.68	-97.41	-56.73	-13	43.73
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (846.5 MHz)									
1 625.15	49.58	H	25.55	-38.61	36.52	-97.41	-60.89	-13	47.89
1 624.94	49.71	V	25.55	-38.61	36.65	-97.41	-60.76	-13	47.76
2 400.35	56.42	H	28.10	-36.24	48.28	-97.41	-49.13	-13	36.13
2 400.26	50.33	V	28.10	-36.23	42.20	-97.41	-55.21	-13	42.21
4 222.01	42.97	V	31.81	-36.02	38.76	-97.41	-58.65	-13	45.65
Above 4 300.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26_Part 90 (5 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (816.5 MHz)									
1 625.24	49.91	H	25.55	-38.61	36.85	-97.41	-60.56	-13	47.56
1 625.20	49.13	V	25.55	-38.61	36.07	-97.41	-61.34	-13	48.34
2 400.13	52.09	H	28.10	-36.23	43.96	-97.41	-53.45	-13	40.45
2 399.93	48.93	V	28.10	-36.23	40.80	-97.41	-56.61	-13	43.61
4 071.71	48.29	H	31.90	-36.38	43.81	-97.41	-53.60	-13	40.60
4 071.52	50.77	V	31.90	-36.38	46.29	-97.41	-51.12	-13	38.12
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (819 MHz)									
1 625.14	50.11	H	25.55	-38.61	37.05	-97.41	-60.36	-13	47.36
1 624.90	49.84	V	25.55	-38.61	36.78	-97.41	-60.63	-13	47.63
2 400.37	55.99	H	28.10	-36.24	47.85	-97.41	-49.56	-13	36.56
2 399.82	52.39	V	28.10	-36.23	44.26	-97.41	-53.15	-13	40.15
4 084.15	51.12	H	31.90	-36.31	46.71	-97.41	-50.70	-13	37.70
4 084.01	48.29	V	31.90	-36.31	43.88	-97.41	-53.53	-13	40.53
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (821.5 MHz)									
1 625.14	50.49	H	25.55	-38.61	37.43	-97.41	-59.98	-13	46.98
1 624.76	49.60	V	25.55	-38.61	36.54	-97.41	-60.87	-13	47.87
2 400.08	56.24	H	28.10	-36.23	48.11	-97.41	-49.30	-13	36.30
2 400.10	49.51	V	28.10	-36.23	41.38	-97.41	-56.03	-13	43.03
4 097.06	43.64	H	31.90	-36.21	39.33	-97.41	-58.08	-13	45.08
4 096.46	46.05	V	31.90	-36.22	41.73	-97.41	-55.68	-13	42.68
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-

LTE band 41 (15 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 503.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 593 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 682.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

SIM 2

LTE band 2 (20 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 860 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 900 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 4 (3 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 711.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 732.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 753.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 7 (15 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 507.5 MHz)									
7 501.78	48.23	V	35.90	-32.97	51.16	-95.26	-44.10	-25	19.10
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
7 591.89	47.10	V	35.90	-32.62	50.38	-95.26	-44.88	-25	19.88
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 562.5 MHz)									
7 681.64	43.59	V	35.96	-32.28	47.27	-95.26	-47.99	-25	22.99
Above 7 700.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26/5 Part 22 (3 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (825.5 MHz)									
1 125.00	53.74	V	24.85	-40.17	38.42	-97.41	-58.99	-13	45.99
1 625.25	48.70	V	25.55	-38.61	35.64	-97.41	-61.77	-13	48.77
1 648.75	50.51	H	25.60	-38.68	37.43	-97.41	-59.98	-13	46.98
2 000.25	49.92	V	27.70	-37.64	39.98	-97.41	-57.43	-13	44.43
2 167.00	49.56	H	27.63	-36.47	40.72	-97.41	-56.69	-13	43.69
2 166.50	51.33	V	27.63	-36.48	42.48	-97.41	-54.93	-13	41.93
2 399.75	49.01	H	28.10	-36.23	40.88	-97.41	-56.53	-13	43.53
2 500.25	47.45	H	28.10	-37.21	38.34	-97.41	-59.07	-13	46.07
Above 2 600.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
1 125.25	53.61	V	24.85	-40.16	38.30	-97.41	-59.11	-13	46.11
1 200.50	49.41	H	24.90	-39.85	34.46	-97.41	-62.95	-13	49.95
1 625.25	49.92	V	25.55	-38.61	36.86	-97.41	-60.55	-13	47.55
1 669.00	49.88	H	25.83	-38.67	37.04	-97.41	-60.37	-13	47.37
1 971.25	47.80	V	27.59	-37.78	37.61	-97.41	-59.80	-13	46.80
2 166.75	49.04	H	27.63	-36.48	40.19	-97.41	-57.22	-13	44.22
2 167.00	48.93	V	27.63	-36.47	40.09	-97.41	-57.32	-13	44.32
2 333.50	49.28	H	27.80	-36.44	40.64	-97.41	-56.77	-13	43.77
2 400.25	48.60	H	28.10	-36.23	40.47	-97.41	-56.94	-13	43.94
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (847.5 MHz)									
1 125.00	53.94	V	24.85	-40.17	38.62	-97.41	-58.79	-13	45.79
1 625.25	49.22	V	25.55	-38.61	36.16	-97.41	-61.25	-13	48.25
1 688.75	50.19	H	26.07	-38.73	37.53	-97.41	-59.88	-13	46.88
2 000.25	48.92	V	27.70	-37.64	38.98	-97.41	-58.43	-13	45.43
2 166.75	47.82	H	27.63	-36.48	38.97	-97.41	-58.44	-13	45.44
2 167.00	50.85	V	27.63	-36.47	42.01	-97.41	-55.40	-13	42.40
2 333.25	48.08	H	27.80	-36.44	39.44	-97.41	-57.97	-13	44.97
2 400.25	47.32	H	28.10	-36.23	39.19	-97.41	-58.22	-13	45.22
2 500.50	46.96	H	28.10	-37.20	37.86	-97.41	-59.55	-13	46.55
4 689.00	49.13	V	32.16	-35.72	45.57	-97.41	<u>-51.84</u>	-13	38.84
Above 4 700.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26_Part 90 (3 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (815.5 MHz)									
1 125.25	53.07	V	24.85	-40.16	37.76	-97.41	-59.65	-13	46.65
1 625.00	49.40	V	25.55	-38.61	36.34	-97.41	-61.07	-13	48.07
1 628.75	54.07	H	25.56	-38.62	41.01	-97.41	-56.40	-13	43.40
2 166.75	49.84	H	27.63	-36.48	40.99	-97.41	-56.42	-13	43.42
2 166.75	50.45	V	27.63	-36.48	41.60	-97.41	-55.81	-13	42.81
1 833.75	49.53	H	27.44	-38.37	38.60	-97.41	-58.81	-13	45.81
2 333.25	48.70	H	27.80	-36.44	40.06	-97.41	-57.35	-13	44.35
2 400.25	47.48	H	28.10	-36.23	39.35	-97.41	-58.06	-13	45.06
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (819.0 MHz)									
1 125.00	51.99	V	24.85	-40.17	36.67	-97.41	-60.74	-13	47.74
1 625.25	49.15	V	25.55	-38.61	36.09	-97.41	-61.32	-13	48.32
1 633.75	50.13	H	25.57	-38.63	37.07	-97.41	-60.34	-13	47.34
1 833.25	47.99	H	27.43	-38.37	37.05	-97.41	-60.36	-13	47.36
2 000.25	49.45	H	27.70	-37.64	39.51	-97.41	-57.90	-13	44.90
2 000.50	47.00	V	27.70	-37.64	37.06	-97.41	-60.35	-13	47.35
2 167.00	49.46	H	27.63	-36.47	40.62	-97.41	-56.79	-13	43.79
2 166.75	47.21	V	27.63	-36.48	38.36	-97.41	-59.05	-13	46.05
2 333.25	49.80	H	27.80	-36.44	41.16	-97.41	-56.25	-13	43.25
2 400.25	47.91	H	28.10	-36.23	39.78	-97.41	-57.63	-13	44.63
2 500.25	48.33	H	28.10	-37.21	39.22	-97.41	-58.19	-13	45.19
Above 2 600.00	Not detected	-	-	-	-	-	-	-	-

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (822.5 MHz)									
1 125.25	53.34	V	24.85	-40.16	38.03	-97.41	-59.38	-13	46.38
1 200.00	49.95	H	24.90	-39.85	35.00	-97.41	-62.41	-13	49.41
1 625.50	48.60	H	25.55	-38.61	35.54	-97.41	-61.87	-13	48.87
1 625.00	49.99	V	25.55	-38.61	36.93	-97.41	-60.48	-13	47.48
1 689.00	48.27	V	26.07	-38.74	35.60	-97.41	-61.81	-13	48.81
1 833.25	50.14	H	27.43	-38.37	39.20	-97.41	-58.21	-13	45.21
2 167.25	48.73	V	27.63	-36.47	39.89	-97.41	-57.52	-13	44.52
2 333.50	49.33	H	27.80	-36.44	40.69	-97.41	-56.72	-13	43.72
Above 2 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 41 (10 MHz – QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 501.0 MHz)									
4 993.10	39.33	V	33.00	-35.31	37.02	-95.26	-58.24	-25	33.24
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 593.0 MHz)									
5 177.05	37.21	V	33.41	-35.30	35.32	-95.26	-59.94	-25	34.94
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 685.0 MHz)									
5 361.22	38.83	V	33.90	-34.70	38.03	-95.26	<u>-57.23</u>	-25	32.23
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dB μ V/m) = Measured Level (dB μ V) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dB μ V/m) + CF (dB).
4. E.R.P. (dB m) = E (dB μ V/m) + CF (dB) – 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to ANSI C63.26-2015 5.2.7 and KDB 971168 D01 v03r01 5.8.4
6. The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

3. Conducted Output Power

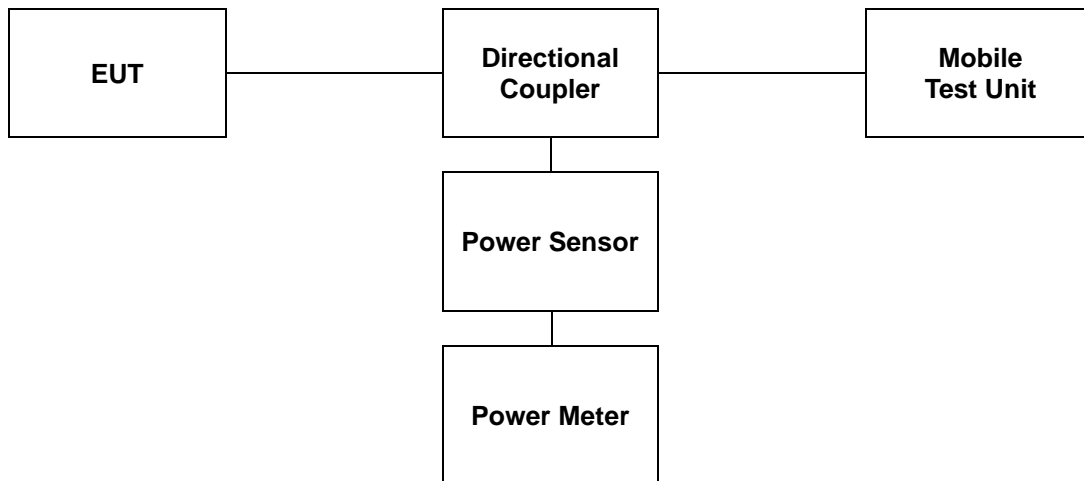
3.1. Limit

CFR 47, Section FCC §2.1046.

3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. The measurement performed using a wideband RF power meter.
4. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

SIM 1

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18607 (1 850.7 MHz)		18900 (1 880.0 MHz)		19193 (1 909.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.33	0.171	22.22	0.167	22.25	0.168
		1	3	22.50	0.178	22.30	0.170	22.34	0.171
		1	5	22.29	0.169	22.15	0.164	22.27	0.169
		3	0	22.38	0.173	22.27	0.169	22.26	0.168
		3	2	22.38	0.173	22.23	0.167	22.30	0.170
		3	3	22.36	0.172	22.20	0.166	22.19	0.166
		6	0	21.38	0.137	21.33	0.136	21.32	0.136
	16QAM	1	0	21.69	0.148	21.57	0.144	21.59	0.144
		1	3	22.01	0.159	21.37	0.137	21.62	0.145
		1	5	21.73	0.149	21.72	0.149	21.63	0.146
		3	0	21.43	0.139	21.33	0.136	21.37	0.137
		3	2	21.48	0.141	21.34	0.136	21.44	0.139
		3	3	21.38	0.137	21.30	0.135	21.36	0.137
		6	0	20.46	0.111	20.36	0.109	20.35	0.108

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18615 (1 851.5 MHz)		18900 (1 880.0 MHz)		19185 (1 908.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.40	0.174	22.20	0.166	22.10	0.162
		1	7	22.43	0.175	22.48	0.177	22.33	0.171
		1	14	22.16	0.164	22.21	0.166	22.13	0.163
		8	0	21.40	0.138	21.24	0.133	21.17	0.131
		8	4	21.35	0.136	21.33	0.136	21.16	0.131
		8	7	21.31	0.135	21.24	0.133	21.07	0.128
		15	0	21.37	0.137	21.26	0.134	21.13	0.130
	16QAM	1	0	21.63	0.146	21.51	0.142	21.47	0.140
		1	7	21.90	0.155	21.57	0.144	21.46	0.140
		1	14	21.54	0.143	21.54	0.143	21.35	0.136
		8	0	20.43	0.110	20.34	0.108	20.24	0.106
		8	4	20.45	0.111	20.44	0.111	20.20	0.105
		8	7	20.35	0.108	20.35	0.108	20.15	0.104
		15	0	20.38	0.109	20.27	0.106	20.16	0.104

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18625 (1 852.5 MHz)		18900 (1 880.0 MHz)		19175 (1 907.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.18	0.165	22.08	0.161	21.97	0.157
		1	12	22.48	0.177	22.44	0.175	22.06	0.161
		1	24	22.11	0.163	22.14	0.164	21.99	0.158
		12	0	21.34	0.136	21.24	0.133	21.08	0.128
		12	6	21.35	0.136	21.29	0.135	21.14	0.130
		12	13	21.29	0.135	21.26	0.134	21.03	0.127
		25	0	21.31	0.135	21.24	0.133	21.08	0.128
	16QAM	1	0	21.58	0.144	21.50	0.141	21.40	0.138
		1	12	21.68	0.147	21.67	0.147	21.63	0.146
		1	24	21.64	0.146	21.41	0.138	21.33	0.136
		12	0	20.33	0.108	20.29	0.107	20.17	0.104
		12	6	20.37	0.109	20.28	0.107	20.19	0.104
		12	13	20.33	0.108	20.28	0.107	20.07	0.102
		25	0	20.33	0.108	20.26	0.106	20.13	0.103

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18650 (1 855.0 MHz)		18900 (1 880.0 MHz)		19150 (1 905.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.05	0.160	21.85	0.153	22.12	0.163
		1	25	22.29	0.169	22.21	0.166	22.11	0.163
		1	49	22.16	0.164	21.96	0.157	22.18	0.165
		25	0	21.25	0.133	21.12	0.129	21.05	0.127
		25	12	21.29	0.135	21.19	0.132	21.11	0.129
		25	25	21.14	0.130	21.14	0.130	20.98	0.125
		50	0	21.20	0.132	21.11	0.129	21.06	0.128
	16QAM	1	0	21.28	0.134	21.23	0.133	21.46	0.140
		1	25	21.85	0.153	21.48	0.141	21.51	0.142
		1	49	21.51	0.142	21.31	0.135	21.43	0.139
		25	0	20.23	0.105	20.10	0.102	20.06	0.101
		25	12	20.30	0.107	20.21	0.105	20.11	0.103
		25	25	20.21	0.105	20.21	0.105	20.04	0.101
		50	0	20.22	0.105	20.09	0.102	20.06	0.101

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18675 (1 857.5 MHz)		18900 (1 880.0 MHz)		19125 (1 902.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.36	0.172	22.00	0.158	21.96	0.157
		1	36	22.13	0.163	22.07	0.161	22.16	0.164
		1	74	22.19	0.166	22.08	0.161	22.22	0.167
		36	0	21.07	0.128	21.05	0.127	21.02	0.126
		36	18	21.19	0.132	21.14	0.130	21.11	0.129
		36	37	21.26	0.134	21.20	0.132	21.06	0.128
		75	0	21.18	0.131	21.10	0.129	21.02	0.126
	16QAM	1	0	21.22	0.132	21.47	0.140	21.32	0.136
		1	36	21.37	0.137	21.52	0.142	21.31	0.135
		1	74	21.27	0.134	21.53	0.142	21.15	0.130
		36	0	20.05	0.101	20.06	0.101	20.00	0.100
		36	18	20.21	0.105	20.14	0.103	20.09	0.102
		36	37	20.23	0.105	20.24	0.106	20.06	0.101
		75	0	20.21	0.105	20.12	0.103	20.03	0.101

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18700 (1 860.0 MHz)		18900 (1 880.0 MHz)		19100 (1 900.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.42	0.175	22.09	0.162	21.99	0.158
		1	50	22.21	0.166	22.15	0.164	22.05	0.160
		1	99	22.28	0.169	22.11	0.163	22.21	0.166
		50	0	21.06	0.128	21.03	0.127	21.03	0.127
		50	25	21.22	0.132	21.16	0.131	21.06	0.128
		50	13	21.18	0.131	21.20	0.132	21.03	0.127
		100	0	21.18	0.131	21.10	0.129	21.03	0.127
	16QAM	1	0	21.46	0.140	21.39	0.138	21.37	0.137
		1	50	21.45	0.140	21.44	0.139	21.31	0.135
		1	99	21.43	0.139	21.39	0.138	21.34	0.136
		50	0	20.06	0.101	20.07	0.102	20.02	0.100
		50	25	20.20	0.105	20.18	0.104	20.14	0.103
		50	50	20.21	0.105	20.21	0.105	20.12	0.103
		100	0	20.16	0.104	20.07	0.102	20.08	0.102

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19957 (1 710.7 MHz)		20175 (1 732.5 MHz)		20393 (1 754.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	21.82	0.152	21.73	0.149	21.78	0.151
		1	3	21.84	0.153	21.76	0.150	21.85	0.153
		1	5	21.78	0.151	21.71	0.148	21.76	0.150
		3	0	21.78	0.151	21.72	0.149	21.77	0.150
		3	2	21.82	0.152	21.75	0.150	21.81	0.152
		3	3	21.79	0.151	21.70	0.148	21.80	0.151
		6	0	20.84	0.121	20.79	0.120	20.92	0.124
	16QAM	1	0	21.15	0.130	21.11	0.129	21.19	0.132
		1	3	21.35	0.136	21.14	0.130	21.26	0.134
		1	5	21.14	0.130	21.09	0.129	21.03	0.127
		3	0	20.90	0.123	20.85	0.122	20.94	0.124
		3	2	20.94	0.124	20.82	0.121	21.01	0.126
		3	3	20.81	0.121	20.77	0.119	20.94	0.124
		6	0	20.00	0.100	19.92	0.098	20.02	0.100

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19965 (1 711.5 MHz)		20175 (1 732.5 MHz)		20385 (1 753.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	21.86	0.153	21.84	0.153	21.93	0.156
		1	7	21.95	0.157	21.89	0.155	21.91	0.155
		1	14	21.79	0.151	21.79	0.151	21.93	0.156
		8	0	20.97	0.125	20.85	0.122	20.98	0.125
		8	4	20.98	0.125	20.94	0.124	21.01	0.126
		8	7	20.88	0.122	20.84	0.121	20.96	0.125
		15	0	20.93	0.124	20.95	0.124	20.98	0.125
	16QAM	1	0	21.16	0.131	21.16	0.131	21.25	0.133
		1	7	21.29	0.135	21.22	0.132	21.48	0.141
		1	14	21.14	0.130	21.09	0.129	21.18	0.131
		8	0	20.03	0.101	19.92	0.098	20.05	0.101
		8	4	20.01	0.100	20.01	0.100	20.13	0.103
		8	7	19.95	0.099	19.95	0.099	20.04	0.101
		15	0	19.93	0.098	20.00	0.100	20.03	0.101

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19975 (1 712.5 MHz)		20175 (1 732.5 MHz)		20375 (1 752.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	21.84	0.153	21.74	0.149	22.08	0.161
		1	12	21.88	0.154	21.90	0.155	22.15	0.164
		1	24	21.89	0.155	21.75	0.150	22.00	0.158
		12	0	20.98	0.125	20.94	0.124	21.20	0.132
		12	6	20.99	0.126	20.96	0.125	21.18	0.131
		12	13	20.95	0.124	20.91	0.123	21.14	0.130
		25	0	20.94	0.124	20.92	0.124	21.16	0.131
	16QAM	1	0	21.29	0.135	21.10	0.129	21.36	0.137
		1	12	21.33	0.136	21.33	0.136	21.48	0.141
		1	24	21.27	0.134	21.10	0.129	21.35	0.136
		12	0	20.00	0.100	19.96	0.099	20.21	0.105
		12	6	20.02	0.100	20.00	0.100	20.27	0.106
		12	13	19.99	0.100	19.93	0.098	20.12	0.103
		25	0	19.98	0.100	19.94	0.099	20.19	0.104

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20000 (1 715.0 MHz)		20175 (1 732.5 MHz)		20350 (1 750.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	21.68	0.147	21.62	0.145	21.68	0.147
		1	25	21.96	0.157	21.85	0.153	21.97	0.157
		1	49	21.58	0.144	21.56	0.143	21.81	0.152
		25	0	20.89	0.123	20.80	0.120	20.95	0.124
		25	12	20.98	0.125	20.99	0.126	20.99	0.126
		25	25	20.85	0.122	20.90	0.123	20.94	0.124
		50	0	20.92	0.124	20.91	0.123	20.93	0.124
	16QAM	1	0	20.92	0.124	21.01	0.126	21.10	0.129
		1	25	21.46	0.140	21.26	0.134	21.29	0.135
		1	49	21.03	0.127	20.94	0.124	21.16	0.131
		25	0	19.92	0.098	19.83	0.096	19.96	0.099
		25	12	20.05	0.101	20.00	0.100	20.04	0.101
		25	25	19.89	0.097	19.87	0.097	19.98	0.100
		50	0	19.91	0.098	19.91	0.098	19.97	0.099

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20025 (1 717.5 MHz)		20175 (1 732.5 MHz)		20325 (1 747.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	21.80	0.151	21.59	0.144	21.63	0.146
		1	36	21.98	0.158	21.79	0.151	22.02	0.159
		1	74	21.82	0.152	21.77	0.150	21.84	0.153
		36	0	20.84	0.121	20.83	0.121	20.88	0.122
		36	18	20.95	0.124	21.01	0.126	20.97	0.125
		36	37	20.94	0.124	20.95	0.124	21.06	0.128
		75	0	20.92	0.124	20.92	0.124	20.94	0.124
	16QAM	1	0	21.04	0.127	20.93	0.124	21.04	0.127
		1	36	21.14	0.130	21.15	0.130	21.25	0.133
		1	74	21.21	0.132	21.06	0.128	21.20	0.132
		36	0	19.83	0.096	19.80	0.095	19.90	0.098
		36	18	19.98	0.100	19.95	0.099	20.03	0.101
		36	37	19.98	0.100	19.95	0.099	20.06	0.101
		75	0	19.95	0.099	19.92	0.098	19.94	0.099

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20050 (1 720.0 MHz)		20175 (1 732.5 MHz)		20300 (1 745.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	21.69	0.148	21.47	0.140	21.69	0.148
		1	50	22.00	0.158	21.81	0.152	21.92	0.156
		1	99	21.91	0.155	21.68	0.147	21.82	0.152
		50	0	21.25	0.133	20.79	0.120	21.25	0.133
		50	25	21.18	0.131	20.97	0.125	21.07	0.128
		50	13	21.13	0.130	20.92	0.124	21.06	0.128
		100	0	21.10	0.129	20.87	0.122	20.97	0.125
	16QAM	1	0	21.07	0.128	20.88	0.122	20.97	0.125
		1	50	21.32	0.136	21.13	0.130	21.23	0.133
		1	99	21.23	0.133	21.01	0.126	21.14	0.130
		50	0	19.98	0.100	19.77	0.095	19.90	0.098
		50	25	20.17	0.104	19.95	0.099	20.09	0.102
		50	50	20.15	0.104	19.95	0.099	20.09	0.102
		100	0	20.08	0.102	19.90	0.098	20.03	0.101

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20775 (2 502.5 MHz)		21100 (2 535.0 MHz)		21425 (2 567.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.10	0.162	22.27	0.169	22.16	0.164
		1	12	22.32	0.171	22.25	0.168	22.09	0.162
		1	24	22.11	0.163	22.29	0.169	22.10	0.162
		12	0	21.20	0.132	21.29	0.135	21.19	0.132
		12	6	21.23	0.133	21.38	0.137	21.20	0.132
		12	13	21.16	0.131	21.38	0.137	21.13	0.130
		25	0	21.21	0.132	21.33	0.136	21.16	0.131
	16QAM	1	0	21.53	0.142	21.58	0.144	21.46	0.140
		1	12	21.55	0.143	21.72	0.149	21.45	0.140
		1	24	21.48	0.141	21.68	0.147	21.36	0.137
		12	0	20.22	0.105	20.30	0.107	20.16	0.104
		12	6	20.29	0.107	20.39	0.109	20.26	0.106
		12	13	20.23	0.105	20.34	0.108	20.15	0.104
		25	0	20.22	0.105	20.34	0.108	20.18	0.104

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20800 (2 505.0 MHz)		21100 (2 535.0 MHz)		21400 (2 565.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.15	0.164	22.25	0.168	22.15	0.164
		1	25	22.09	0.162	22.23	0.167	22.11	0.163
		1	49	22.23	0.167	22.33	0.171	22.07	0.161
		25	0	21.20	0.132	21.32	0.136	21.15	0.130
		25	12	21.16	0.131	21.30	0.135	21.14	0.130
		25	25	21.18	0.131	21.31	0.135	21.15	0.130
		50	0	21.13	0.130	21.23	0.133	21.04	0.127
	16QAM	1	0	21.43	0.139	21.73	0.149	21.53	0.142
		1	25	21.43	0.139	21.62	0.145	21.39	0.138
		1	49	21.51	0.142	21.65	0.146	21.42	0.139
		25	0	20.15	0.104	20.29	0.107	20.18	0.104
		25	12	20.22	0.105	20.28	0.107	20.13	0.103
		25	25	20.21	0.105	20.31	0.107	20.17	0.104
		50	0	20.13	0.103	20.28	0.107	20.07	0.102

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20825 (2 507.5 MHz)		21100 (2 535.0 MHz)		21375 (2 562.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.04	0.160	22.19	0.166	22.18	0.165
		1	36	22.06	0.161	22.14	0.164	22.15	0.164
		1	74	22.12	0.163	22.07	0.161	21.98	0.158
		36	0	21.08	0.128	21.28	0.134	21.18	0.131
		36	18	21.19	0.132	21.31	0.135	21.17	0.131
		36	37	21.16	0.131	21.27	0.134	21.17	0.131
		75	0	21.19	0.132	21.27	0.134	21.13	0.130
	16QAM	1	0	21.44	0.139	21.58	0.144	21.47	0.140
		1	36	21.39	0.138	21.56	0.143	21.34	0.136
		1	74	21.38	0.137	21.52	0.142	21.45	0.140
		36	0	20.06	0.101	20.28	0.107	20.19	0.104
		36	18	20.19	0.104	20.28	0.107	20.13	0.103
		36	37	20.18	0.104	20.29	0.107	20.14	0.103
		75	0	20.19	0.104	20.27	0.106	20.12	0.103

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20850 (2 510.0 MHz)		21100 (2 535.0 MHz)		21350 (2 560.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.08	0.161	22.15	0.164	22.26	0.168
		1	50	22.11	0.163	22.19	0.166	22.10	0.162
		1	99	22.26	0.168	22.10	0.162	22.00	0.158
		50	0	21.05	0.127	21.26	0.134	21.18	0.131
		50	25	21.23	0.133	21.32	0.136	21.27	0.134
		50	50	21.18	0.131	21.23	0.133	21.10	0.129
		100	0	21.16	0.131	21.22	0.132	21.21	0.132
	16QAM	1	0	21.43	0.139	21.56	0.143	21.60	0.145
		1	50	21.43	0.139	21.48	0.141	21.56	0.143
		1	99	21.50	0.141	21.53	0.142	21.41	0.138
		50	0	20.08	0.102	20.30	0.107	20.21	0.105
		50	25	20.26	0.106	20.28	0.107	20.27	0.106
		50	50	20.21	0.105	20.29	0.107	20.08	0.102
		100	0	20.15	0.104	20.24	0.106	20.19	0.104

LTE Band 12									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23017 (699.7 MHz)		23095 (707.5 MHz)		23173 (715.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.36	0.172	22.22	0.167	22.13	0.163
		1	3	22.42	0.175	22.18	0.165	22.21	0.166
		1	5	22.34	0.171	22.23	0.167	22.19	0.166
		3	0	22.35	0.172	22.22	0.167	22.18	0.165
		3	2	22.38	0.173	22.34	0.171	22.20	0.166
		3	3	22.36	0.172	22.32	0.171	22.17	0.165
		6	0	21.40	0.138	22.25	0.168	22.18	0.165
	16QAM	1	0	21.61	0.145	21.60	0.145	21.53	0.142
		1	3	21.76	0.150	21.58	0.144	21.48	0.141
		1	5	21.59	0.144	21.59	0.144	21.50	0.141
		3	0	21.42	0.139	21.58	0.144	21.49	0.141
		3	2	21.41	0.138	21.69	0.148	21.50	0.141
		3	3	21.39	0.138	21.73	0.149	21.52	0.142
		6	0	20.44	0.111	21.51	0.142	21.48	0.141

LTE Band 12									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23025 (700.5 MHz)		23095 (707.5 MHz)		23165 (714.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.13	0.163	22.19	0.166	22.15	0.164
		1	7	22.08	0.161	22.16	0.164	22.11	0.163
		1	14	22.04	0.160	22.16	0.164	22.12	0.163
		8	0	21.16	0.131	21.21	0.132	21.13	0.130
		8	4	21.18	0.131	21.22	0.132	21.15	0.130
		8	7	21.13	0.130	21.26	0.134	21.19	0.132
		15	0	21.18	0.131	21.24	0.133	21.21	0.132
	16QAM	1	0	21.44	0.139	21.55	0.143	21.52	0.142
		1	7	21.35	0.136	21.51	0.142	21.46	0.140
		1	14	21.42	0.139	21.57	0.144	21.49	0.141
		8	0	20.26	0.106	20.33	0.108	20.27	0.106
		8	4	20.29	0.107	20.36	0.109	20.31	0.107
		8	7	20.24	0.106	20.36	0.109	20.32	0.108
		15	0	20.21	0.105	20.31	0.107	20.23	0.105

LTE Band 12/17									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23035 (701.5 MHz)		23095 (707.5 MHz)		23155 (713.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.19	0.166	22.27	0.169	22.20	0.166
		1	12	22.32	0.171	22.40	0.174	22.40	0.174
		1	24	22.26	0.168	22.41	0.174	22.19	0.166
		12	0	22.27	0.169	22.28	0.169	21.26	0.134
		12	6	22.20	0.166	22.38	0.173	21.41	0.138
		12	13	22.26	0.168	22.32	0.171	21.29	0.135
		25	0	22.19	0.166	21.41	0.138	21.26	0.134
	16QAM	1	0	21.62	0.145	21.61	0.145	21.53	0.142
		1	12	21.69	0.148	21.78	0.151	21.58	0.144
		1	24	21.66	0.147	21.81	0.152	21.63	0.146
		12	0	21.39	0.138	21.46	0.140	20.36	0.109
		12	6	21.39	0.138	21.53	0.142	20.39	0.109
		12	13	21.34	0.136	21.52	0.142	20.34	0.108
		25	0	21.41	0.138	20.48	0.112	20.30	0.107

LTE Band 12/17									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23060 (704.0 MHz)		23095 (707.5 MHz)		23130 (711.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.27	0.169	22.38	0.173	22.29	0.169
		1	25	22.19	0.166	22.17	0.165	22.21	0.166
		1	49	22.32	0.171	22.44	0.175	22.13	0.163
		25	0	22.36	0.172	22.34	0.171	22.33	0.171
		25	12	22.37	0.173	22.37	0.173	22.36	0.172
		25	25	22.22	0.167	22.37	0.173	22.36	0.172
		50	0	22.30	0.170	21.43	0.139	21.23	0.133
	16QAM	1	0	21.68	0.147	21.62	0.145	21.69	0.148
		1	25	21.70	0.148	21.74	0.149	21.61	0.145
		1	49	21.69	0.148	21.74	0.149	21.56	0.143
		25	0	21.39	0.138	21.48	0.141	21.41	0.138
		25	12	21.49	0.141	21.58	0.144	21.41	0.138
		25	25	21.49	0.141	21.60	0.145	21.40	0.138
		50	0	21.45	0.140	20.44	0.111	20.22	0.105

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26797 (824.7 MHz)		26915 (836.5 MHz)		27033 (848.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.20	0.166	22.31	0.170	22.35	0.172
		1	2	22.18	0.165	22.58	0.181	22.38	0.173
		1	5	22.15	0.164	22.14	0.164	22.11	0.163
		3	0	22.13	0.163	22.15	0.164	22.17	0.165
		3	2	22.22	0.167	22.24	0.167	22.20	0.166
		3	3	22.22	0.167	22.17	0.165	22.14	0.164
		6	0	21.22	0.132	21.23	0.133	21.26	0.134
	16QAM	1	0	21.45	0.140	21.50	0.141	21.54	0.143
		1	3	21.61	0.145	21.57	0.144	21.59	0.144
		1	5	21.51	0.142	21.51	0.142	21.56	0.143
		3	0	21.24	0.133	21.25	0.133	21.29	0.135
		3	2	21.31	0.135	21.36	0.137	21.39	0.138
		3	3	21.29	0.135	21.24	0.133	21.42	0.139
		6	0	20.29	0.107	20.29	0.107	20.39	0.109

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26805 (825.5 MHz)		26915 (836.5 MHz)		27025 (847.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.15	0.164	22.19	0.166	22.58	0.181
		1	7	22.37	0.173	22.42	0.175	22.82	0.191
		1	14	22.17	0.165	22.21	0.166	22.13	0.163
		8	0	21.23	0.133	21.24	0.133	21.28	0.134
		8	4	21.33	0.136	21.34	0.136	21.25	0.133
		8	7	21.30	0.135	21.28	0.134	21.27	0.134
		15	0	21.33	0.136	21.30	0.135	21.26	0.134
	16QAM	1	0	21.55	0.143	21.55	0.143	21.56	0.143
		1	7	21.67	0.147	21.65	0.146	21.57	0.144
		1	14	21.60	0.145	21.58	0.144	21.49	0.141
		8	0	20.38	0.109	20.40	0.110	20.31	0.107
		8	4	20.37	0.109	20.37	0.109	20.36	0.109
		8	7	20.29	0.107	20.31	0.107	20.31	0.107
		15	0	20.36	0.109	20.33	0.108	20.31	0.107

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26815 (826.5 MHz)		26915 (836.5 MHz)		27015 (846.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.16	0.164	22.25	0.168	22.88	0.194
		1	12	22.35	0.172	22.32	0.171	22.36	0.172
		1	24	22.09	0.162	22.12	0.163	22.18	0.165
		12	0	21.26	0.134	21.25	0.133	21.33	0.136
		12	6	21.34	0.136	21.38	0.137	21.30	0.135
		12	13	21.24	0.133	21.25	0.133	21.24	0.133
		25	0	21.27	0.134	21.26	0.134	21.22	0.132
	16QAM	1	0	21.67	0.147	21.65	0.146	21.67	0.147
		1	12	21.59	0.144	21.57	0.144	21.67	0.147
		1	24	21.58	0.144	21.59	0.144	21.53	0.142
		12	0	20.35	0.108	20.38	0.109	20.35	0.108
		12	6	20.40	0.110	20.38	0.109	20.36	0.109
		12	13	20.33	0.108	20.32	0.108	20.27	0.106
		25	0	20.27	0.106	20.24	0.106	20.31	0.107

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26840 (829.0 MHz)		26915 (836.5 MHz)		26990 (844.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.16	0.164	22.26	0.168	22.55	0.180
		1	25	22.19	0.166	22.19	0.166	21.64	0.146
		1	49	22.23	0.167	22.19	0.166	21.68	0.147
		25	0	21.25	0.133	21.22	0.132	20.72	0.118
		25	12	21.34	0.136	21.30	0.135	20.82	0.121
		25	25	21.21	0.132	21.18	0.131	20.69	0.117
		50	0	21.18	0.131	21.17	0.131	20.69	0.117
	16QAM	1	0	21.64	0.146	21.64	0.146	21.12	0.129
		1	25	21.60	0.145	21.63	0.146	21.07	0.128
		1	49	21.56	0.143	21.57	0.144	21.05	0.127
		25	0	20.22	0.105	20.20	0.105	19.71	0.094
		25	12	20.33	0.108	20.36	0.109	19.83	0.096
		25	25	20.19	0.104	20.19	0.104	19.71	0.094
		50	0	20.24	0.106	20.21	0.105	19.72	0.094

LTE Band 26_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26865 (831.5 MHz)		-		26965 (841.5 MHz)	
				(dB m)	(W)	-	-	(dB m)	(W)
15	QPSK	1	0	22.15	0.164	-	-	22.58	0.181
		1	36	22.38	0.173	-	-	22.82	0.191
		1	74	22.19	0.166	-	-	22.13	0.163
		36	0	22.25	0.168	-	-	22.65	0.184
		36	18	22.05	0.160	-	-	21.53	0.142
		36	37	22.00	0.158	-	-	21.49	0.141
		75	0	21.11	0.129	-	-	20.57	0.114
	16QAM	1	0	21.45	0.140	-	-	20.61	0.115
		1	36	21.42	0.139	-	-	20.67	0.117
		1	74	21.44	0.139	-	-	20.52	0.113
		36	0	21.14	0.130	-	-	20.94	0.124
		36	18	21.18	0.131	-	-	20.89	0.123
		36	37	21.03	0.127	-	-	20.89	0.123
		75	0	20.13	0.103	-	-	19.62	0.092

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26697 (814.7 MHz)		26740 (819.0 MHz)		26783 (823.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.33	0.171	22.11	0.163	22.78	0.190
		1	2	22.35	0.172	22.40	0.174	22.84	0.192
		1	5	22.27	0.169	22.17	0.165	22.71	0.187
		3	0	22.30	0.170	22.14	0.164	22.78	0.190
		3	2	22.39	0.173	22.25	0.168	22.80	0.191
		3	3	22.34	0.171	22.20	0.166	22.76	0.189
		6	0	21.39	0.138	21.25	0.133	21.88	0.154
	16QAM	1	0	21.62	0.145	21.44	0.139	22.13	0.163
		1	2	21.74	0.149	21.67	0.147	22.17	0.165
		1	5	21.67	0.147	21.50	0.141	22.13	0.163
		3	0	21.40	0.138	21.27	0.134	21.90	0.155
		3	2	21.48	0.141	21.34	0.136	21.99	0.158
		3	3	21.41	0.138	21.33	0.136	22.02	0.159
		6	0	20.46	0.111	20.33	0.108	20.97	0.125

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26705 (815.5 MHz)		26740 (819.0 MHz)		26775 (822.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.28	0.169	22.22	0.167	22.80	0.191
		1	7	22.53	0.179	22.47	0.177	23.03	0.201
		1	14	22.33	0.171	22.28	0.169	22.82	0.191
		8	0	21.40	0.138	21.33	0.136	21.95	0.157
		8	4	21.50	0.141	21.38	0.137	21.91	0.155
		8	7	21.43	0.139	21.35	0.136	21.94	0.156
		15	0	21.46	0.140	21.37	0.137	21.93	0.156
	16QAM	1	0	21.72	0.149	21.69	0.148	22.25	0.168
		1	7	21.80	0.151	21.65	0.146	22.25	0.168
		1	14	21.72	0.149	21.78	0.151	22.18	0.165
		8	0	20.52	0.113	20.41	0.110	20.99	0.126
		8	4	20.54	0.113	20.48	0.112	21.00	0.126
		8	7	20.46	0.111	20.42	0.110	21.00	0.126
		15	0	20.48	0.112	20.41	0.110	20.97	0.125

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26715 (816.5 MHz)		26740 (819.0 MHz)		26765 (821.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.34	0.171	22.29	0.169	22.92	0.196
		1	12	22.47	0.177	22.31	0.170	23.05	0.202
		1	24	22.24	0.167	22.32	0.171	22.83	0.192
		12	0	21.42	0.139	21.31	0.135	21.97	0.157
		12	6	21.51	0.142	21.35	0.136	21.98	0.158
		12	13	21.39	0.138	21.41	0.138	21.93	0.156
		25	0	21.41	0.138	21.37	0.137	21.91	0.155
	16QAM	1	0	21.79	0.151	21.69	0.148	22.32	0.171
		1	12	21.74	0.149	21.71	0.148	22.34	0.171
		1	24	21.71	0.148	21.67	0.147	22.18	0.165
		12	0	20.52	0.113	20.41	0.110	21.02	0.126
		12	6	20.54	0.113	20.48	0.112	21.05	0.127
		12	13	20.48	0.112	20.46	0.111	20.93	0.124
		25	0	20.40	0.110	20.34	0.108	20.98	0.125

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26740 (819.0 MHz)					
						(dB m)	(W)		
10	QPSK	1	0	-	-	22.39	0.173	-	-
		1	25	-	-	22.32	0.171	-	-
		1	49	-	-	22.35	0.172	-	-
		25	0	-	-	21.38	0.137	-	-
		25	12	-	-	21.46	0.140	-	-
		25	25	-	-	21.35	0.136	-	-
		50	0	-	-	21.33	0.136	-	-
	16QAM	1	0	-	-	21.76	0.150	-	-
		1	25	-	-	21.75	0.150	-	-
		1	49	-	-	21.72	0.149	-	-
		25	0	-	-	20.36	0.109	-	-
		25	12	-	-	20.50	0.112	-	-
		25	25	-	-	20.36	0.109	-	-
		50	0	-	-	20.37	0.109	-	-

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26765 (821.5 MHz)					
						(dB m)	(W)		
15	QPSK	1	0	-	-	22.23	0.167	-	-
		1	36	-	-	22.22	0.167	-	-
		1	74	-	-	22.17	0.165	-	-
		36	0	-	-	21.26	0.134	-	-
		36	18	-	-	21.27	0.134	-	-
		36	37	-	-	21.32	0.136	-	-
		75	0	-	-	21.18	0.131	-	-
	16QAM	1	0	-	-	21.62	0.145	-	-
		1	36	-	-	21.56	0.143	-	-
		1	74	-	-	21.58	0.144	-	-
		36	0	-	-	20.26	0.106	-	-
		36	18	-	-	20.35	0.108	-	-
		36	37	-	-	20.27	0.106	-	-
		75	0	-	-	20.22	0.105	-	-

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39675 (2 498.5 MHz)		40620 (2 593.0 MHz)		41565 (2 687.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	24.90	0.309	25.04	0.319	24.48	0.281
		1	12	24.84	0.305	25.11	0.324	24.23	0.265
		1	24	24.84	0.305	25.05	0.320	24.22	0.264
		12	0	24.31	0.270	24.48	0.281	24.22	0.264
		12	6	24.31	0.270	24.52	0.283	23.97	0.249
		12	13	24.27	0.267	24.52	0.283	23.97	0.249
		25	0	24.28	0.268	24.50	0.282	24.23	0.265
	16QAM	1	0	24.37	0.274	24.52	0.283	23.36	0.217
		1	12	24.33	0.271	24.58	0.287	23.41	0.219
		1	24	24.32	0.270	24.48	0.281	23.45	0.221
		12	0	23.28	0.213	23.53	0.225	23.42	0.220
		12	6	23.32	0.215	23.49	0.223	23.12	0.205
		12	13	23.25	0.211	23.54	0.226	23.15	0.207
		25	0	23.32	0.215	23.48	0.223	23.45	0.221

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39700 (2 501.0 MHz)		40620 (2 593.0 MHz)		41540 (2 685.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	24.89	0.308	24.88	0.308	24.76	0.299
		1	25	24.87	0.307	25.15	0.327	24.18	0.262
		1	49	24.80	0.302	25.10	0.324	24.13	0.259
		25	0	24.91	0.310	25.04	0.319	23.73	0.236
		25	12	24.96	0.313	25.11	0.324	23.77	0.238
		25	25	24.95	0.313	25.10	0.327	23.75	0.237
		50	0	24.31	0.270	24.45	0.279	23.74	0.237
	16QAM	1	0	24.36	0.273	24.34	0.272	23.96	0.249
		1	25	24.40	0.275	24.59	0.288	23.28	0.213
		1	49	24.28	0.268	24.58	0.287	23.31	0.214
		25	0	24.31	0.270	24.41	0.276	22.86	0.193
		25	12	24.32	0.270	24.54	0.284	22.87	0.194
		25	25	24.30	0.269	24.58	0.287	22.87	0.194
		50	0	23.29	0.213	23.44	0.221	22.88	0.194

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39725 (2 503.5 MHz)		40620 (2 593.0 MHz)		41515 (2 682.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	24.85	0.305	24.94	0.312	24.77	0.300
		1	36	24.83	0.304	24.99	0.316	24.63	0.290
		1	74	24.93	0.311	25.18	0.330	24.04	0.254
		36	0	24.90	0.309	25.02	0.318	24.20	0.263
		36	18	24.89	0.308	25.08	0.322	23.97	0.249
		36	37	24.91	0.310	25.13	0.326	23.66	0.232
		75	0	24.22	0.264	24.40	0.275	23.78	0.239
	16QAM	1	0	24.32	0.270	24.40	0.275	24.13	0.259
		1	36	24.33	0.271	24.47	0.280	23.84	0.242
		1	74	24.39	0.275	24.63	0.290	23.12	0.205
		36	0	24.27	0.267	24.41	0.276	23.27	0.212
		36	18	24.27	0.267	24.48	0.281	23.05	0.202
		36	37	24.25	0.266	24.52	0.283	22.74	0.188
		75	0	23.24	0.211	23.39	0.218	22.94	0.197

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39750 (2 506.0 MHz)		40620 (2 593.0 MHz)		41490 (2 680.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	24.89	0.308	24.85	0.305	24.65	0.292
		1	50	24.90	0.309	24.98	0.315	24.84	0.305
		1	99	24.90	0.309	25.07	0.321	24.39	0.275
		50	0	24.93	0.311	24.95	0.313	24.23	0.265
		50	25	24.93	0.311	24.97	0.314	24.32	0.270
		50	13	24.94	0.312	25.04	0.319	24.08	0.256
		100	0	24.26	0.267	24.32	0.270	24.24	0.265
	16QAM	1	0	24.31	0.270	24.29	0.269	24.12	0.258
		1	50	24.37	0.274	24.46	0.279	24.10	0.257
		1	99	24.36	0.273	24.62	0.290	23.55	0.226
		50	0	24.32	0.270	24.33	0.271	23.23	0.210
		50	25	24.34	0.272	24.38	0.274	23.34	0.216
		50	50	24.33	0.271	24.44	0.278	23.18	0.208
		100	0	23.27	0.212	23.34	0.216	23.30	0.214

SIM 2

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18607 (1 850.7 MHz)		18900 (1 880.0 MHz)		19193 (1 909.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	23.88	0.244	23.91	0.246	23.77	0.238
		1	3	23.92	0.247	23.68	0.233	23.77	0.238
		1	5	23.82	0.241	23.68	0.233	23.71	0.235
		3	0	23.85	0.243	23.85	0.243	23.72	0.236
		3	2	23.90	0.245	23.77	0.238	23.70	0.234
		3	3	23.89	0.245	23.78	0.239	23.72	0.236
		6	0	22.91	0.195	23.88	0.244	23.69	0.234
	16QAM	1	0	23.26	0.212	23.87	0.244	23.11	0.205
		1	3	23.07	0.203	23.36	0.217	23.25	0.211
		1	5	23.26	0.212	23.19	0.208	23.42	0.220
		3	0	22.97	0.198	23.62	0.230	23.27	0.212
		3	2	23.14	0.206	23.24	0.211	23.27	0.212
		3	3	22.93	0.196	23.46	0.222	23.36	0.217
		6	0	21.93	0.156	23.06	0.202	23.17	0.207

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18615 (1 851.5 MHz)		18900 (1 880.0 MHz)		19185 (1 908.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	23.96	0.249	23.88	0.244	23.88	0.244
		1	7	24.09	0.256	23.84	0.242	23.89	0.245
		1	14	24.10	0.257	23.78	0.239	23.89	0.245
		8	0	23.90	0.245	22.96	0.198	22.96	0.198
		8	4	24.03	0.253	23.02	0.200	22.97	0.198
		8	7	23.95	0.248	22.87	0.194	22.97	0.198
		15	0	23.06	0.202	22.96	0.198	22.97	0.198
	16QAM	1	0	23.39	0.218	23.39	0.218	23.33	0.215
		1	7	23.39	0.218	23.17	0.207	23.21	0.209
		1	14	23.36	0.217	23.30	0.214	23.24	0.211
		8	0	23.01	0.200	22.12	0.163	22.01	0.159
		8	4	23.08	0.203	22.10	0.162	21.99	0.158
		8	7	23.15	0.207	22.02	0.159	22.01	0.159
		15	0	22.10	0.162	21.99	0.158	21.93	0.156

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18625 (1 852.5 MHz)		18900 (1 880.0 MHz)		19175 (1 907.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.80	0.240	23.85	0.243	23.89	0.245
		1	12	23.90	0.245	23.98	0.250	24.01	0.252
		1	24	23.94	0.248	24.00	0.251	24.00	0.251
		12	0	22.25	0.168	22.25	0.168	22.25	0.168
		12	6	23.83	0.242	23.93	0.247	23.94	0.248
		12	13	23.78	0.239	23.85	0.243	23.85	0.243
		25	0	22.89	0.195	22.95	0.197	22.97	0.198
	16QAM	1	0	23.21	0.209	23.26	0.212	23.30	0.214
		1	12	23.22	0.210	23.29	0.213	23.33	0.215
		1	24	23.17	0.207	23.24	0.211	23.27	0.212
		12	0	22.86	0.193	22.89	0.195	22.90	0.195
		12	6	22.91	0.195	22.98	0.199	23.01	0.200
		12	13	22.97	0.198	23.04	0.201	23.05	0.202
		25	0	21.91	0.155	21.95	0.157	21.99	0.158

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18650 (1 855.0 MHz)		18900 (1 880.0 MHz)		19150 (1 905.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.79	0.239	23.84	0.242	23.89	0.245
		1	25	23.91	0.246	23.97	0.249	24.02	0.252
		1	49	23.91	0.246	23.97	0.249	24.01	0.252
		25	0	22.25	0.168	22.25	0.168	22.25	0.168
		25	12	23.82	0.241	23.92	0.247	23.95	0.248
		25	25	23.78	0.239	23.83	0.242	23.88	0.244
		50	0	22.86	0.193	22.93	0.196	22.97	0.198
	16QAM	1	0	23.20	0.209	23.26	0.212	23.32	0.215
		1	25	23.18	0.208	23.27	0.212	23.28	0.213
		1	49	23.15	0.207	23.24	0.211	23.26	0.212
		25	0	22.81	0.191	22.88	0.194	22.93	0.196
		25	12	22.92	0.196	22.95	0.197	22.98	0.199
		25	25	22.94	0.197	23.02	0.200	23.06	0.202
		50	0	21.91	0.155	21.98	0.158	22.00	0.158

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18675 (1 857.5 MHz)		18900 (1 880.0 MHz)		19125 (1 902.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	23.79	0.239	23.76	0.238	23.79	0.239
		1	36	23.92	0.247	23.85	0.243	23.92	0.247
		1	74	23.89	0.245	23.89	0.245	23.92	0.247
		36	0	22.25	0.168	22.25	0.168	22.25	0.168
		36	18	23.86	0.243	23.82	0.241	23.82	0.241
		36	37	23.77	0.238	23.74	0.237	23.74	0.237
		75	0	22.85	0.193	22.85	0.193	22.85	0.193
	16QAM	1	0	23.20	0.209	23.16	0.207	23.21	0.209
		1	36	23.22	0.210	23.19	0.208	23.18	0.208
		1	74	23.19	0.208	23.16	0.207	23.16	0.207
		36	0	22.80	0.191	22.80	0.191	22.83	0.192
		36	18	22.88	0.194	22.86	0.193	22.91	0.195
		36	37	22.99	0.199	22.96	0.198	22.98	0.199
		75	0	21.91	0.155	21.88	0.154	21.90	0.155

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18700 (1 860.0 MHz)		18900 (1 880.0 MHz)		19100 (1 900.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	23.76	0.238	23.79	0.239	23.99	0.251
		1	50	23.85	0.243	23.93	0.247	24.08	0.256
		1	99	23.90	0.245	23.89	0.245	24.13	0.259
		50	0	22.25	0.168	22.25	0.168	22.25	0.168
		50	25	23.82	0.241	23.82	0.241	24.07	0.255
		50	13	23.74	0.237	23.74	0.237	23.95	0.248
		100	0	22.85	0.193	22.87	0.194	23.08	0.203
	16QAM	1	0	23.19	0.208	23.22	0.210	23.38	0.218
		1	50	23.19	0.208	23.23	0.210	23.42	0.220
		1	99	23.12	0.205	23.20	0.209	23.37	0.217
		50	0	22.80	0.191	22.84	0.192	23.04	0.201
		50	25	22.84	0.192	22.90	0.195	23.09	0.204
		50	50	22.91	0.195	22.99	0.199	23.16	0.207
		100	0	21.90	0.155	21.91	0.155	22.13	0.163

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19957 (1 710.7 MHz)		20175 (1 732.5 MHz)		20393 (1 754.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	24.00	0.251	24.00	0.251	23.95	0.248
		1	3	24.13	0.259	23.96	0.249	23.95	0.248
		1	5	24.01	0.252	23.85	0.243	23.86	0.243
		3	0	24.04	0.254	23.98	0.250	23.85	0.243
		3	2	24.13	0.259	23.94	0.248	23.85	0.243
		3	3	24.11	0.258	24.02	0.252	23.92	0.247
	16QAM	6	0	23.20	0.209	23.96	0.249	23.90	0.245
		1	0	23.59	0.229	23.06	0.202	23.23	0.210
		1	3	23.51	0.224	23.52	0.225	23.24	0.211
		1	5	23.12	0.205	23.49	0.223	23.42	0.220
		3	0	23.26	0.212	23.61	0.230	23.37	0.217
		3	2	23.26	0.212	23.41	0.219	23.25	0.211
		3	3	23.31	0.214	23.29	0.213	23.28	0.213
		6	0	22.32	0.171	23.47	0.222	23.31	0.214

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19965 (1 711.5 MHz)		20175 (1 732.5 MHz)		20385 (1 753.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	24.22	0.264	24.04	0.254	23.93	0.247
		1	7	24.21	0.264	24.01	0.252	24.12	0.258
		1	14	24.30	0.269	23.97	0.249	24.05	0.254
		8	0	24.19	0.262	23.20	0.209	23.19	0.208
		8	4	24.26	0.267	23.21	0.209	23.15	0.207
		8	7	24.17	0.261	23.06	0.202	23.09	0.204
		15	0	23.32	0.215	23.13	0.206	23.18	0.208
	16QAM	1	0	23.64	0.231	23.44	0.221	23.44	0.221
		1	7	23.67	0.233	23.44	0.221	23.52	0.225
		1	14	23.72	0.236	23.43	0.220	23.22	0.210
		8	0	23.34	0.216	22.11	0.163	22.13	0.163
		8	4	23.36	0.217	22.15	0.164	22.16	0.164
		8	7	23.39	0.218	22.17	0.165	22.15	0.164
		15	0	22.31	0.170	22.86	0.193	22.17	0.165

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19975 (1 712.5 MHz)		20175 (1 732.5 MHz)		20375 (1 752.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	24.10	0.257	24.09	0.256	24.13	0.259
		1	12	24.21	0.264	24.18	0.262	24.25	0.266
		1	24	24.08	0.256	24.11	0.258	24.10	0.257
		12	0	22.25	0.168	22.25	0.168	22.25	0.168
		12	6	24.20	0.263	24.22	0.264	24.23	0.265
		12	13	24.22	0.264	24.19	0.262	24.22	0.264
		25	0	23.31	0.214	23.29	0.213	23.33	0.215
	16QAM	1	0	23.67	0.233	23.68	0.233	23.68	0.233
		1	12	23.58	0.228	23.57	0.228	23.63	0.231
		1	24	23.21	0.209	23.19	0.208	23.21	0.209
		12	0	23.34	0.216	23.32	0.215	23.38	0.218
		12	6	23.37	0.217	23.31	0.214	23.37	0.217
		12	13	23.41	0.219	23.39	0.218	23.44	0.221
		25	0	22.39	0.173	22.42	0.175	22.41	0.174

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20000 (1 715.0 MHz)		20175 (1 732.5 MHz)		20350 (1 750.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	24.16	0.261	24.10	0.257	24.04	0.254
		1	25	24.28	0.268	24.22	0.264	24.14	0.259
		1	49	24.16	0.261	24.12	0.258	24.06	0.255
		25	0	22.25	0.168	22.25	0.168	22.25	0.168
		25	12	24.26	0.267	24.23	0.265	24.18	0.262
		25	25	24.27	0.267	24.18	0.262	24.16	0.261
		50	0	23.36	0.217	23.27	0.212	23.21	0.209
	16QAM	1	0	23.71	0.235	23.69	0.234	23.60	0.229
		1	25	23.68	0.233	23.57	0.228	23.55	0.226
		1	49	23.29	0.213	23.18	0.208	23.12	0.205
		25	0	23.42	0.220	23.37	0.217	23.31	0.214
		25	12	23.41	0.219	23.36	0.217	23.28	0.213
		25	25	23.44	0.221	23.38	0.218	23.33	0.215
		50	0	22.44	0.175	22.38	0.173	22.34	0.171

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20025 (1 717.5 MHz)		20175 (1 732.5 MHz)		20325 (1 747.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	24.09	0.256	24.15	0.260	24.06	0.255
		1	36	24.18	0.262	24.26	0.267	24.15	0.260
		1	74	24.06	0.255	24.16	0.261	24.06	0.255
		36	0	22.25	0.168	22.25	0.168	22.25	0.168
		36	18	24.18	0.262	24.24	0.265	24.19	0.262
		36	37	24.20	0.263	24.25	0.266	24.14	0.259
		75	0	23.29	0.213	23.34	0.216	23.23	0.210
	16QAM	1	0	23.64	0.231	23.74	0.237	23.66	0.232
		1	36	23.61	0.230	23.65	0.232	23.56	0.227
		1	74	23.17	0.207	23.26	0.212	23.19	0.208
		36	0	23.36	0.217	23.37	0.217	23.30	0.214
		36	18	23.34	0.216	23.38	0.218	23.28	0.213
		36	37	23.36	0.217	23.45	0.221	23.35	0.216
		75	0	22.39	0.173	22.47	0.177	22.39	0.173

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20050 (1 720.0 MHz)		20175 (1 732.5 MHz)		20300 (1 745.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	24.12	0.258	24.16	0.261	24.10	0.257
		1	50	24.22	0.264	24.28	0.268	24.19	0.262
		1	99	24.14	0.259	24.16	0.261	24.12	0.258
		50	0	22.25	0.168	22.25	0.168	22.25	0.168
		50	25	24.23	0.265	24.26	0.267	24.21	0.264
		50	13	24.20	0.263	24.28	0.268	24.17	0.261
		100	0	23.30	0.214	23.34	0.216	23.28	0.213
	16QAM	1	0	23.71	0.235	23.73	0.236	23.68	0.233
		1	50	23.64	0.231	23.65	0.232	23.60	0.229
		1	99	23.24	0.211	23.24	0.211	23.23	0.210
		50	0	23.37	0.217	23.41	0.219	23.33	0.215
		50	25	23.39	0.218	23.40	0.219	23.33	0.215
		50	50	23.42	0.220	23.46	0.222	23.41	0.219
		100	0	22.44	0.175	22.47	0.177	22.39	0.173

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20775 (2 502.5 MHz)		21100 (2 535.0 MHz)		21425 (2 567.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.95	0.248	23.94	0.248	23.94	0.248
		1	12	24.04	0.254	24.09	0.256	24.04	0.254
		1	24	23.92	0.247	23.96	0.249	23.93	0.247
		12	0	22.25	0.168	22.25	0.168	22.25	0.168
		12	6	24.05	0.254	24.07	0.255	24.05	0.254
		12	13	24.05	0.254	24.02	0.252	24.03	0.253
		25	0	23.13	0.206	23.11	0.205	23.12	0.205
	16QAM	1	0	23.54	0.226	23.51	0.224	23.54	0.226
		1	12	23.45	0.221	23.44	0.221	23.44	0.221
		1	24	23.06	0.202	23.04	0.201	23.06	0.202
		12	0	23.21	0.209	23.21	0.209	23.16	0.207
		12	6	23.20	0.209	23.18	0.208	23.20	0.209
		12	13	23.26	0.212	23.21	0.209	23.25	0.211
		25	0	22.25	0.168	22.24	0.167	22.22	0.167

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20800 (2 505.0 MHz)		21100 (2 535.0 MHz)		21400 (2 565.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.94	0.248	23.96	0.249	24.00	0.251
		1	25	24.07	0.255	24.05	0.254	24.12	0.258
		1	49	23.91	0.246	23.95	0.248	23.97	0.249
		25	0	22.25	0.168	22.25	0.168	22.25	0.168
		25	12	24.07	0.255	24.07	0.255	24.12	0.258
		25	25	24.02	0.252	24.05	0.254	24.12	0.258
		50	0	23.10	0.204	23.15	0.207	23.17	0.207
	16QAM	1	0	23.51	0.224	23.53	0.225	23.58	0.228
		1	25	23.43	0.220	23.45	0.221	23.48	0.223
		1	49	23.07	0.203	23.08	0.203	23.13	0.206
		25	0	23.20	0.209	23.22	0.210	23.25	0.211
		25	12	23.21	0.209	23.19	0.208	23.23	0.210
		25	25	23.23	0.210	23.27	0.212	23.30	0.214
		50	0	22.25	0.168	22.25	0.168	22.30	0.170

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20825 (2 507.5 MHz)		21100 (2 535.0 MHz)		21375 (2 562.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	23.84	0.242	23.96	0.249	23.99	0.251
		1	36	23.95	0.248	24.10	0.257	24.13	0.259
		1	74	23.82	0.241	23.95	0.248	24.00	0.251
		36	0	22.25	0.168	22.25	0.168	22.25	0.168
		36	18	23.95	0.248	24.09	0.256	24.08	0.256
		36	37	23.96	0.249	24.05	0.254	24.07	0.255
		75	0	23.02	0.200	23.14	0.206	23.18	0.208
	16QAM	1	0	23.41	0.219	23.54	0.226	23.56	0.227
		1	36	23.36	0.217	23.46	0.222	23.47	0.222
		1	74	22.92	0.196	23.06	0.202	23.08	0.203
		36	0	23.08	0.203	23.20	0.209	23.24	0.211
		36	18	23.07	0.203	23.19	0.208	23.24	0.211
		36	37	23.16	0.207	23.26	0.212	23.28	0.213
		75	0	22.14	0.164	22.28	0.169	22.30	0.170

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20850 (2 510.0 MHz)		21100 (2 535.0 MHz)		21350 (2 560.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	23.85	0.243	23.89	0.245	23.94	0.248
		1	50	23.94	0.248	23.98	0.250	24.06	0.255
		1	99	23.84	0.242	23.88	0.244	23.96	0.249
		50	0	22.25	0.168	22.25	0.168	22.25	0.168
		50	25	23.94	0.248	23.98	0.250	24.04	0.254
		50	50	23.95	0.248	24.01	0.252	24.05	0.254
		100	0	23.03	0.201	23.09	0.204	23.14	0.206
	16QAM	1	0	23.42	0.220	23.48	0.223	23.49	0.223
		1	50	23.34	0.216	23.37	0.217	23.44	0.221
		1	99	22.97	0.198	22.98	0.199	23.06	0.202
		50	0	23.12	0.205	23.14	0.206	23.20	0.209
		50	25	23.09	0.204	23.11	0.205	23.20	0.209
		50	50	23.15	0.207	23.18	0.208	23.25	0.211
		100	0	22.14	0.164	22.21	0.166	22.27	0.169

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26797 (824.7 MHz)		26915 (836.5 MHz)		27033 (848.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	24.70	0.295	24.50	0.282	24.15	0.260
		1	2	24.87	0.307	24.51	0.282	24.12	0.258
		1	5	24.77	0.300	24.51	0.282	24.11	0.258
		3	0	24.82	0.303	24.51	0.282	24.11	0.258
		3	2	24.83	0.304	24.58	0.287	24.11	0.258
		3	3	24.79	0.301	24.62	0.290	24.11	0.258
	6	0	23.88	0.244	24.51	0.282	24.15	0.260	
	16QAM	1	0	24.05	0.254	23.84	0.242	23.39	0.218
		1	3	24.22	0.264	23.92	0.247	23.71	0.235
		1	5	23.92	0.247	23.92	0.247	23.56	0.227
		3	0	24.00	0.251	23.91	0.246	23.64	0.231
		3	2	24.01	0.252	23.90	0.245	23.53	0.225
		3	3	23.91	0.246	24.02	0.252	23.37	0.217
		6	0	23.06	0.202	23.88	0.244	23.42	0.220

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26805 (825.5 MHz)		26915 (836.5 MHz)		27025 (847.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	24.79	0.301	24.71	0.296	24.34	0.272
		1	7	24.93	0.311	24.72	0.296	24.27	0.267
		1	14	25.02	0.318	24.55	0.285	24.40	0.275
		8	0	24.81	0.303	23.66	0.232	23.30	0.214
		8	4	24.84	0.305	23.71	0.235	23.32	0.215
		8	7	24.85	0.305	23.73	0.236	23.32	0.215
		15	0	23.98	0.250	23.68	0.233	23.37	0.217
	16QAM	1	0	24.14	0.259	24.12	0.258	23.60	0.229
		1	7	24.19	0.262	24.09	0.256	23.64	0.231
		1	14	24.42	0.277	23.94	0.248	23.72	0.236
		8	0	24.01	0.252	22.84	0.192	22.40	0.174
		8	4	24.13	0.259	22.78	0.190	22.38	0.173
		8	7	24.09	0.256	22.85	0.193	22.36	0.172
		15	0	22.98	0.199	22.79	0.190	22.36	0.172

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26815 (826.5 MHz)		26915 (836.5 MHz)		27015 (846.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	24.85	0.305	24.76	0.299	24.44	0.278
		1	12	24.96	0.313	24.87	0.307	24.53	0.284
		1	24	24.91	0.310	24.81	0.303	24.49	0.281
		12	0	24.83	0.304	24.85	0.305	24.56	0.286
		12	6	24.89	0.308	24.93	0.311	24.62	0.290
		12	13	24.95	0.313	24.81	0.303	24.50	0.282
		25	0	24.00	0.251	23.93	0.247	23.59	0.229
	16QAM	1	0	24.17	0.261	24.10	0.257	23.79	0.239
		1	12	24.36	0.273	24.24	0.265	23.94	0.248
		1	24	24.08	0.256	23.95	0.248	23.62	0.230
		12	0	24.12	0.258	24.05	0.254	23.75	0.237
		12	6	24.15	0.260	24.05	0.254	23.76	0.238
		12	13	24.04	0.254	23.98	0.250	23.64	0.231
		25	0	23.17	0.207	23.09	0.204	22.78	0.190

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26840 (829.0 MHz)		26915 (836.5 MHz)		26990 (844.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	24.75	0.299	24.69	0.294	24.59	0.288
		1	25	24.88	0.308	24.79	0.301	24.69	0.294
		1	49	24.80	0.302	24.72	0.296	24.63	0.290
		25	0	24.78	0.301	24.76	0.299	24.65	0.292
		25	12	24.84	0.305	24.83	0.304	24.75	0.299
		25	25	24.83	0.304	24.79	0.301	24.65	0.292
		50	0	23.92	0.247	23.87	0.244	23.74	0.237
	16QAM	1	0	24.07	0.255	24.03	0.253	23.95	0.248
		1	25	24.28	0.268	24.17	0.261	24.10	0.257
		1	49	23.96	0.249	23.92	0.247	23.81	0.240
		25	0	24.01	0.252	23.98	0.250	23.85	0.243
		25	12	24.02	0.252	23.97	0.249	23.91	0.246
		25	25	23.95	0.248	23.89	0.245	23.80	0.240
		50	0	23.10	0.204	23.01	0.200	22.93	0.196

LTE Band 26_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26865 (831.5 MHz)		-		26965 (841.5 MHz)	
				(dB m)	(W)	-	-	(dB m)	(W)
15	QPSK	1	0	24.68	0.294	-	-	24.79	0.301
		1	36	24.78	0.301	-	-	24.92	0.310
		1	74	24.72	0.296	-	-	24.84	0.305
		36	0	24.76	0.299	-	-	24.81	0.303
		36	18	24.84	0.305	-	-	24.91	0.310
		36	37	24.73	0.297	-	-	24.85	0.305
		75	0	23.86	0.243	-	-	23.93	0.247
	16QAM	1	0	24.02	0.252	-	-	24.11	0.258
		1	36	24.20	0.263	-	-	24.28	0.268
		1	74	23.87	0.244	-	-	24.02	0.252
		36	0	23.95	0.248	-	-	24.07	0.255
		36	18	23.99	0.251	-	-	24.06	0.255
		36	37	23.86	0.243	-	-	23.97	0.249
		75	0	23.03	0.201	-	-	23.14	0.206

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26697 (814.7 MHz)		26740 (819.0 MHz)		26783 (823.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	25.09	0.323	24.83	0.304	24.88	0.308
		1	2	25.03	0.318	24.92	0.310	24.80	0.302
		1	5	24.97	0.314	24.82	0.303	24.81	0.303
		3	0	25.00	0.316	24.93	0.311	24.79	0.301
		3	2	25.03	0.318	24.92	0.310	24.80	0.302
		3	3	25.01	0.317	24.92	0.310	24.80	0.302
		6	0	24.14	0.259	24.82	0.303	24.80	0.302
	16QAM	1	0	24.50	0.282	24.36	0.273	24.16	0.261
		1	2	24.37	0.274	24.37	0.274	24.17	0.261
		1	5	24.48	0.281	24.42	0.277	24.21	0.264
		3	0	24.19	0.262	24.32	0.270	24.06	0.255
		3	2	24.31	0.270	24.31	0.270	24.16	0.261
		3	3	24.23	0.265	24.33	0.271	24.19	0.262
		6	0	23.18	0.208	24.15	0.260	24.28	0.268

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26705 (815.5 MHz)		26740 (819.0 MHz)		26775 (822.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	25.03	0.318	24.98	0.315	24.92	0.310
		1	7	25.16	0.328	24.86	0.306	24.99	0.316
		1	14	25.23	0.333	24.99	0.316	24.97	0.314
		8	0	25.11	0.324	24.06	0.255	23.96	0.249
		8	4	25.11	0.324	24.12	0.258	23.96	0.249
		8	7	25.09	0.323	24.04	0.254	23.97	0.249
		15	0	24.19	0.262	24.05	0.254	24.02	0.252
	16QAM	1	0	24.49	0.281	24.47	0.280	24.27	0.267
		1	7	24.43	0.277	24.26	0.267	24.18	0.262
		1	14	24.81	0.303	24.38	0.274	24.32	0.270
		8	0	24.29	0.269	23.19	0.208	23.02	0.200
		8	4	24.27	0.267	23.15	0.207	23.05	0.202
		8	7	24.32	0.270	23.15	0.207	23.00	0.200
		15	0	23.21	0.209	23.09	0.204	23.03	0.201

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26715 (816.5 MHz)		26740 (819.0 MHz)		26765 (821.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	25.17	0.329	25.05	0.320	24.99	0.316
		1	12	25.10	0.324	25.03	0.318	24.97	0.314
		1	24	25.04	0.319	24.95	0.313	24.94	0.312
		12	0	22.25	0.168	22.25	0.168	22.25	0.168
		12	6	25.10	0.324	25.07	0.321	25.05	0.320
		12	13	25.09	0.323	25.01	0.317	24.97	0.314
		25	0	24.18	0.262	24.14	0.259	24.09	0.256
	16QAM	1	0	24.57	0.286	24.51	0.282	24.42	0.277
		1	12	24.44	0.278	24.39	0.275	24.29	0.269
		1	24	24.51	0.282	24.49	0.281	24.41	0.276
		12	0	24.24	0.265	24.20	0.263	24.12	0.258
		12	6	24.35	0.272	24.33	0.271	24.24	0.265
		12	13	24.26	0.267	24.24	0.265	24.17	0.261
		25	0	23.21	0.209	23.19	0.208	23.12	0.205

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
						26740 (819.0 MHz)			
						(dB m)	(W)		
10	QPSK	1	0	-	-	25.06	0.321	-	-
		1	25	-	-	25.11	0.324	-	-
		1	49	-	-	25.01	0.317	-	-
		25	0	-	-	22.25	0.168	-	-
		25	12	-	-	25.07	0.321	-	-
		25	25	-	-	25.02	0.318	-	-
		50	0	-	-	24.17	0.261	-	-
	16QAM	1	0	-	-	24.50	0.282	-	-
		1	25	-	-	24.38	0.274	-	-
		1	49	-	-	24.51	0.282	-	-
		25	0	-	-	24.19	0.262	-	-
		25	12	-	-	24.30	0.269	-	-
		25	25	-	-	24.25	0.266	-	-
		50	0	-	-	23.18	0.208	-	-

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26765 (821.5 MHz)					
				(dB m)		(W)			
15	QPSK	1	0	-	-	25.05	0.320	-	-
		1	36	-	-	24.96	0.313	-	-
		1	74	-	-	24.92	0.310	-	-
		36	0	-	-	22.25	0.168	-	-
		36	18	-	-	24.99	0.316	-	-
		36	37	-	-	24.93	0.311	-	-
		75	0	-	-	24.07	0.255	-	-
	16QAM	1	0	-	-	24.42	0.277	-	-
		1	36	-	-	24.32	0.270	-	-
		1	74	-	-	24.43	0.277	-	-
		36	0	-	-	24.13	0.259	-	-
		36	18	-	-	24.26	0.267	-	-
		36	37	-	-	24.15	0.260	-	-
		75	0	-	-	23.11	0.205	-	-

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39675 (2 498.5 MHz)		40620 (2 593.0 MHz)		41565 (2 687.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	26.47	0.444	26.77	0.475	26.70	0.468
		1	12	26.50	0.447	26.78	0.476	26.64	0.461
		1	24	26.51	0.448	26.76	0.474	26.63	0.460
		12	0	25.94	0.393	26.22	0.419	26.62	0.459
		12	6	25.90	0.389	26.20	0.417	26.44	0.441
		12	13	25.93	0.392	26.23	0.420	26.44	0.441
		25	0	25.94	0.393	26.19	0.416	26.61	0.458
	16QAM	1	0	25.95	0.394	26.24	0.421	25.74	0.375
		1	12	25.97	0.395	26.16	0.413	25.73	0.374
		1	24	25.95	0.394	26.15	0.412	25.70	0.372
		12	0	24.88	0.308	25.22	0.333	25.82	0.382
		12	6	24.96	0.313	25.21	0.332	25.47	0.352
		12	13	24.98	0.315	25.23	0.333	25.51	0.356
		25	0	24.91	0.310	25.18	0.330	25.73	0.374

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39700 (2 501.0 MHz)		40620 (2 593.0 MHz)		41540 (2 685.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	26.62	0.459	26.60	0.457	26.46	0.443
		1	25	26.59	0.456	26.86	0.485	26.52	0.449
		1	49	26.60	0.457	26.74	0.472	26.51	0.448
		25	0	26.62	0.459	26.75	0.473	26.07	0.405
		25	12	26.64	0.461	26.81	0.480	26.05	0.403
		25	25	26.64	0.461	26.81	0.480	26.05	0.403
		50	0	25.97	0.395	26.10	0.407	26.03	0.401
	16QAM	1	0	26.03	0.401	26.02	0.400	25.79	0.379
		1	25	25.99	0.397	26.27	0.424	25.64	0.366
		1	49	25.96	0.394	26.16	0.413	25.62	0.365
		25	0	25.93	0.392	26.16	0.413	25.03	0.318
		25	12	26.01	0.399	26.25	0.422	25.06	0.321
		25	25	26.00	0.398	26.17	0.414	25.05	0.320
		50	0	24.99	0.316	25.11	0.324	25.04	0.319

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39725 (2 503.5 MHz)		40620 (2 593.0 MHz)		41515 (2 682.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	26.50	0.447	26.64	0.461	26.41	0.438
		1	36	26.54	0.451	26.67	0.465	26.68	0.466
		1	74	26.67	0.465	26.86	0.485	26.43	0.440
		36	0	26.59	0.456	26.71	0.469	25.98	0.396
		36	18	26.61	0.458	26.76	0.474	26.04	0.402
		36	37	26.61	0.458	26.79	0.478	26.10	0.407
		75	0	25.97	0.395	26.07	0.405	25.97	0.395
	16QAM	1	0	26.01	0.399	26.00	0.398	25.97	0.395
		1	36	26.01	0.399	26.19	0.416	25.83	0.383
		1	74	26.15	0.412	26.30	0.427	25.41	0.348
		36	0	25.90	0.389	26.08	0.406	24.95	0.313
		36	18	26.02	0.400	26.16	0.413	25.03	0.318
		36	37	25.98	0.396	26.18	0.415	25.07	0.321
		75	0	24.96	0.313	25.04	0.319	25.01	0.317

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39750 (2 506.0 MHz)		40620 (2 593.0 MHz)		41490 (2 680.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	26.53	0.450	26.48	0.445	26.37	0.434
		1	50	26.53	0.450	26.65	0.462	26.67	0.465
		1	99	26.54	0.451	26.76	0.474	26.48	0.445
		50	0	26.58	0.455	26.60	0.457	25.91	0.390
		50	25	26.55	0.452	26.65	0.462	26.02	0.400
		50	13	26.59	0.456	26.75	0.473	26.13	0.410
		100	0	25.85	0.385	26.00	0.398	26.00	0.398
	16QAM	1	0	25.99	0.397	25.91	0.390	25.80	0.380
		1	50	25.98	0.396	26.17	0.414	25.97	0.395
		1	99	26.00	0.398	26.23	0.420	25.62	0.365
		50	0	25.91	0.390	25.98	0.396	24.86	0.306
		50	25	25.94	0.393	26.07	0.405	25.04	0.319
		50	50	25.98	0.396	26.07	0.405	25.13	0.326
		100	0	24.92	0.310	24.97	0.314	25.00	0.316

4. Occupied Bandwidth

4.1. Limit

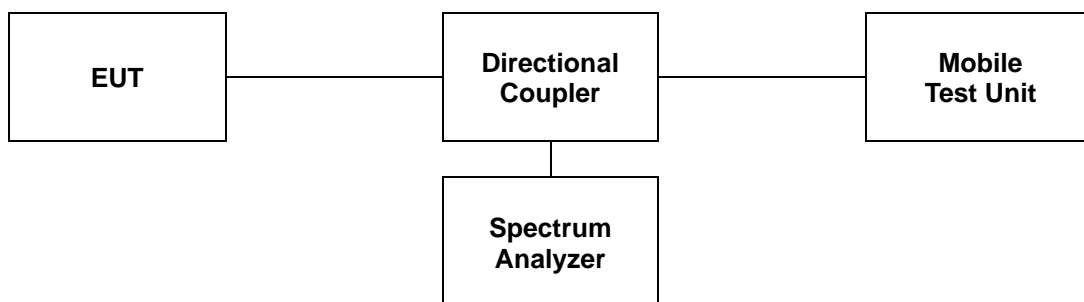
CFR 47, Section FCC §2.1049.

4.2. Test Procedure

The test follows section 5.4.4 of ANSI C63.26-2015.

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation. Products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b. The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. Set the detection mode to peak, and the trace mode to max-hold.
- e. If the instrument does not have a 99 % OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5 % of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5 % of the total is reached and record that frequency as the upper OBW frequency. The 99 % power OBW can be determined by computing the difference these two frequencies.
- f. The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

For the 99 % emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99 % emission bandwidth).



4.3 Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

SIM 1

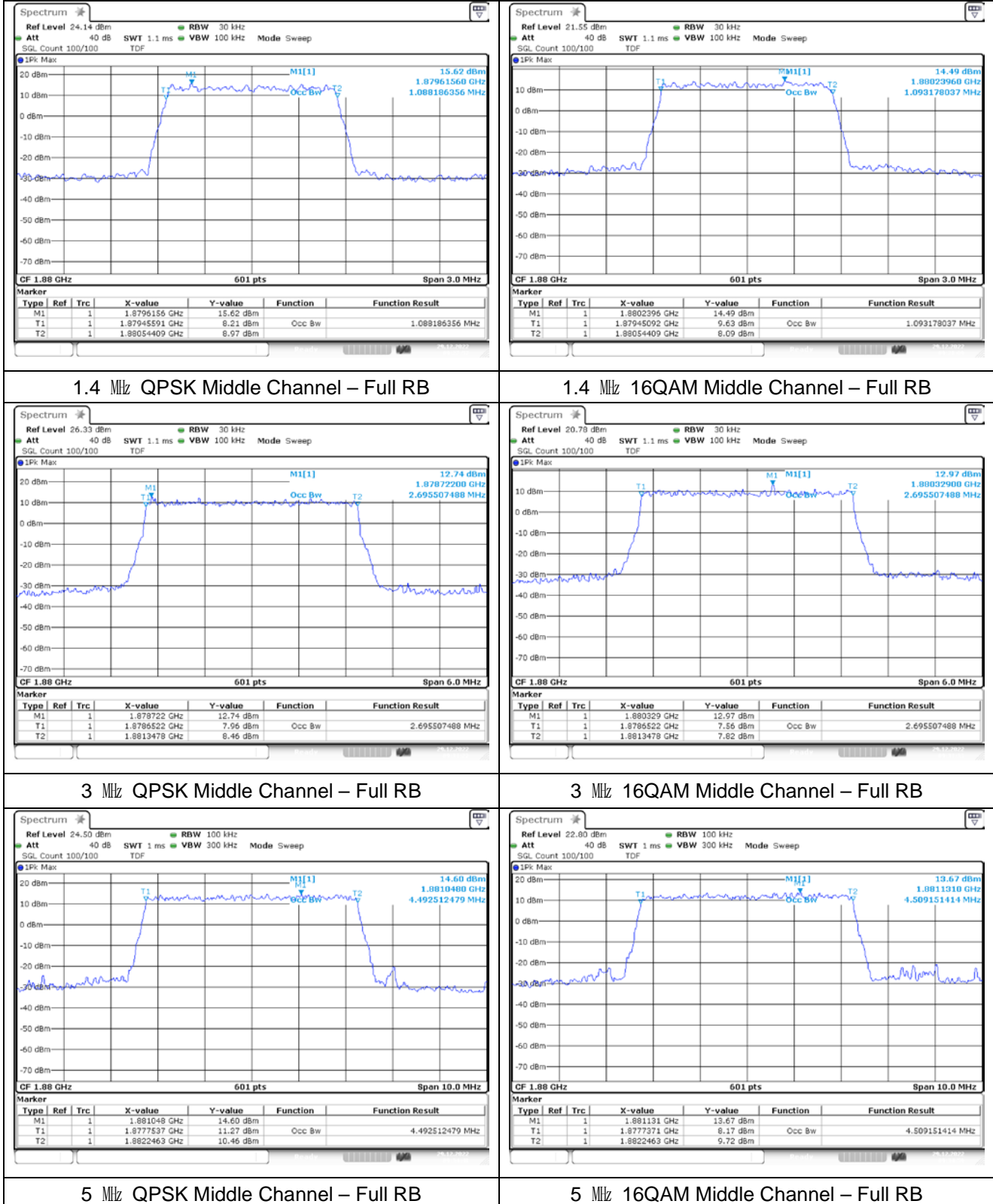
Band	Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
			QPSK	16QAM
2	1.4	1 880	1.088	1.093
	3		2.696	2.696
	5		4.493	4.509
	10		8.918	8.918
	15		13.478	13.428
	20		17.903	17.903
4	1.4	1 732.5	1.103	1.088
	3		2.676	2.696
	5		4.493	4.509
	10		8.952	8.952
	15		13.527	13.478
	20		17.903	17.903
7	5	2 535	4.493	4.493
	10		8.918	8.918
	15		13.428	13.478
	20		17.837	17.903
12	1.4	707.5	1.093	1.093
	3		2.676	2.676
12/17	5		4.493	4.476
	10		8.918	8.918
26/5 Part 22	1.4	836.5	1.088	1.093
	3		2.676	2.676
	5		4.493	4.493
	10		8.918	8.918
26 Part 22	15	831.5	13.478	13.478
26 Part 90	1.4	819	1.098	1.093
	3		2.676	2.686
	5		4.501	4.509
	10		8.918	8.944
	15	821.5	13.459	13.459
41	5	2 593	4.509	4.509
	10		8.918	8.918
	15		13.428	13.478
	20		17.837	17.903

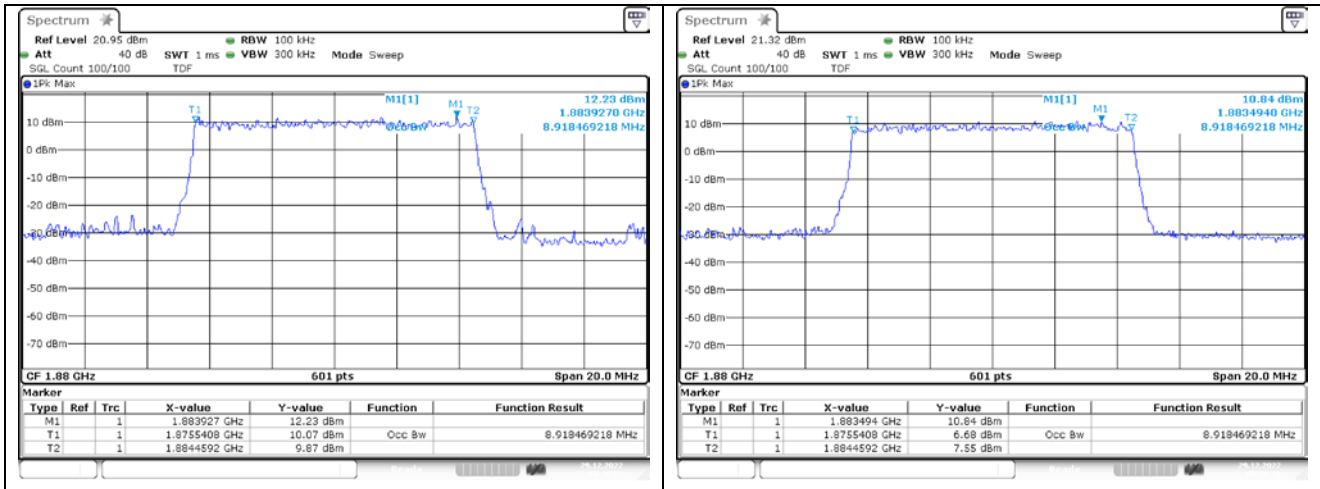
SIM 2

Band	Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
			QPSK	16QAM
2	1.4	1 880	1.098	1.088
	3		2.686	2.696
	5		4.509	4.509
	10		8.918	8.985
	15		13.527	13.478
	20		18.037	17.970
4	1.4	1 732.5	1.098	1.088
	3		2.686	2.686
	5		4.509	4.493
	10		8.918	8.952
	15		13.478	13.478
	20		17.970	17.903
7	5	2 535	4.493	4.493
	10		8.918	8.918
	15		13.527	13.478
	20		17.970	17.970
26/5 Part 22	1.4	836.5	1.088	1.093
	3		2.696	2.696
	5		4.509	4.509
	10		8.952	8.985
26 Part 22	15	831.5	13.428	13.428
26 Part 90	1.4	819	1.093	1.088
	3		2.676	2.696
	5		4.509	4.493
	10		8.985	8.918
	15	821.5	13.527	13.478
41	5	2 593	4.476	4.509
	10		8.952	8.918
	15		13.478	13.527
	20		17.970	17.837

- Test plots

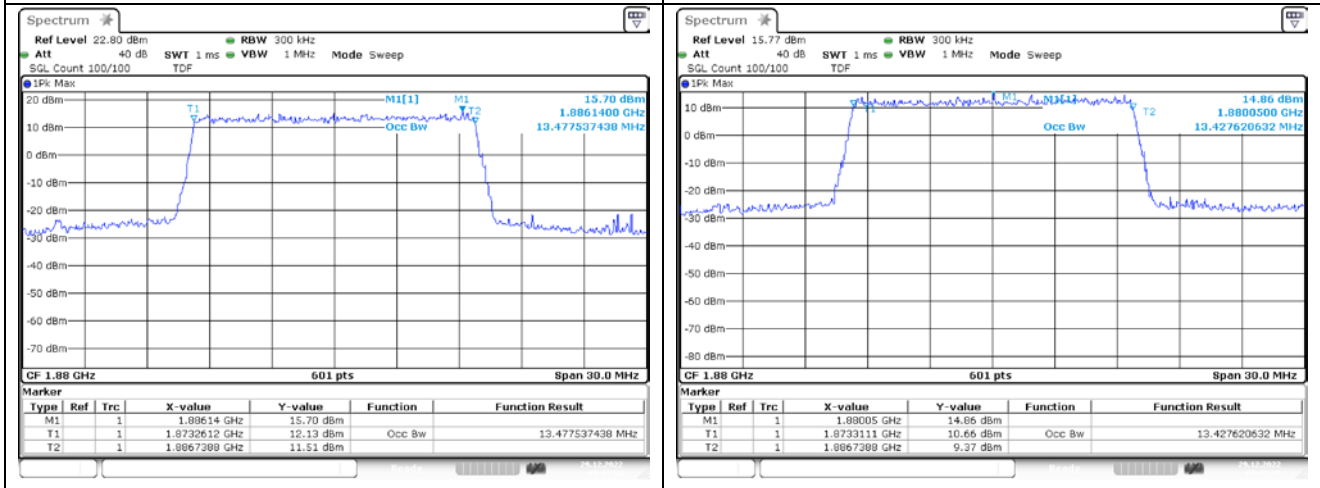
**SIM 1
 LTE band 2**





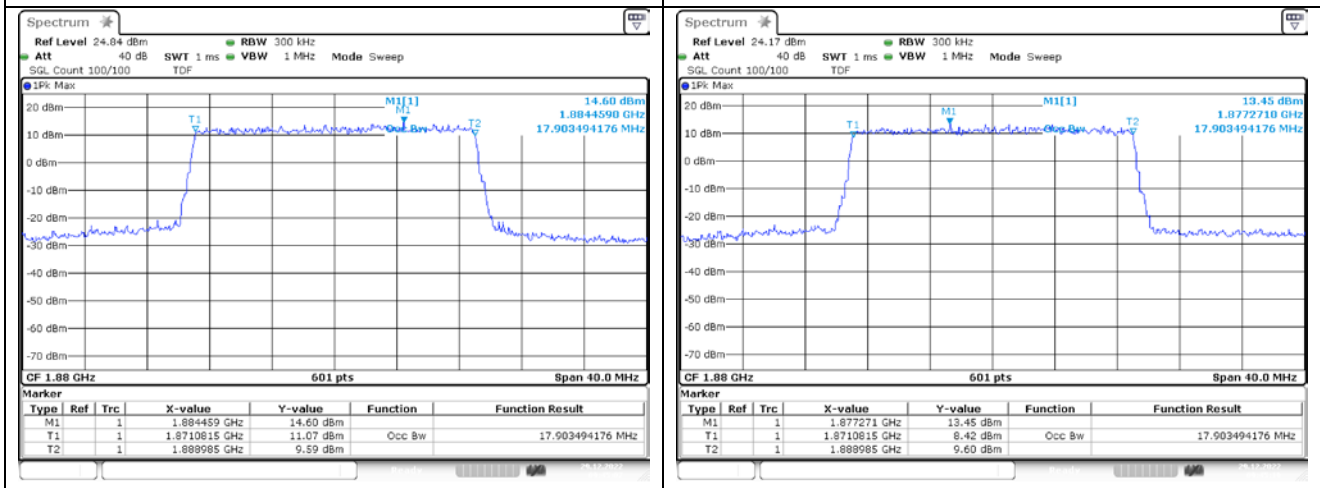
10 MHz QPSK Middle Channel - Full RB

10 MHz 16QAM Middle Channel - Full RB



15 MHz QPSK Middle Channel - Full RB

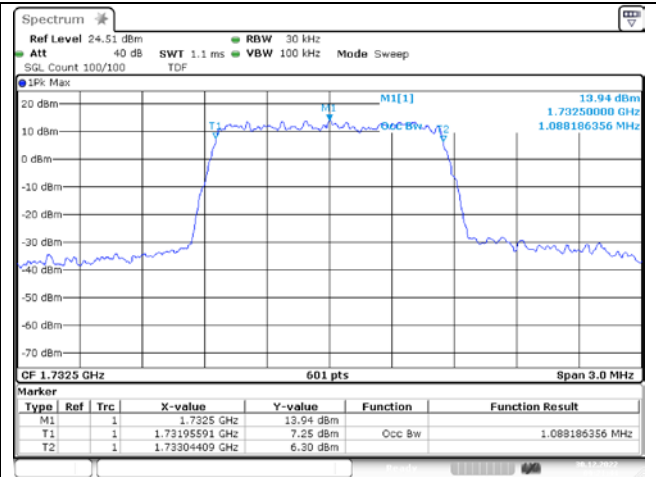
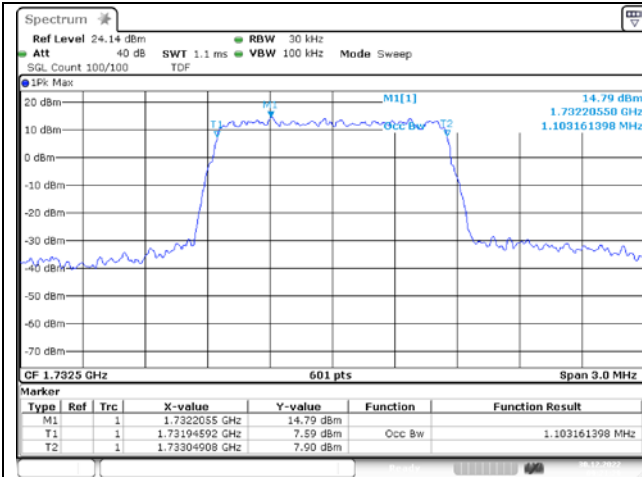
15 MHz 16QAM Middle Channel - Full RB



20 MHz QPSK Middle Channel - Full RB

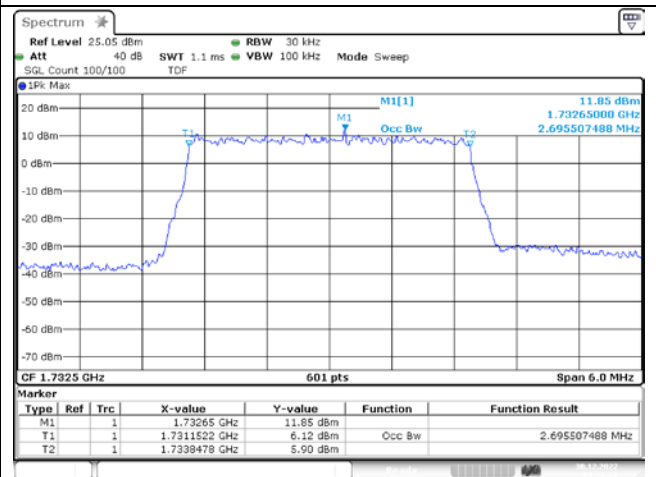
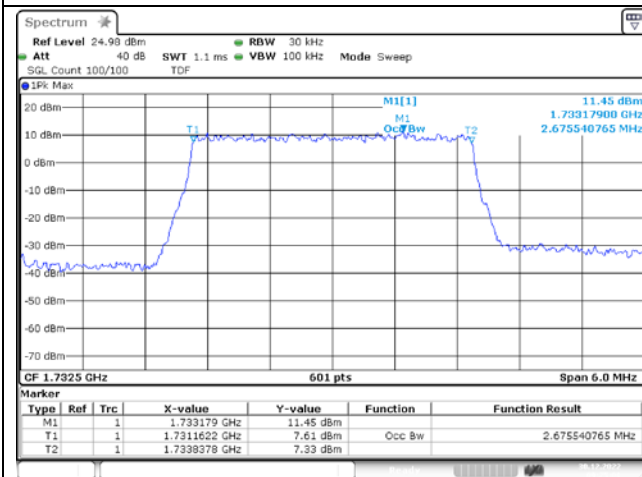
20 MHz 16QAM Middle Channel - Full RB

LTE band 4



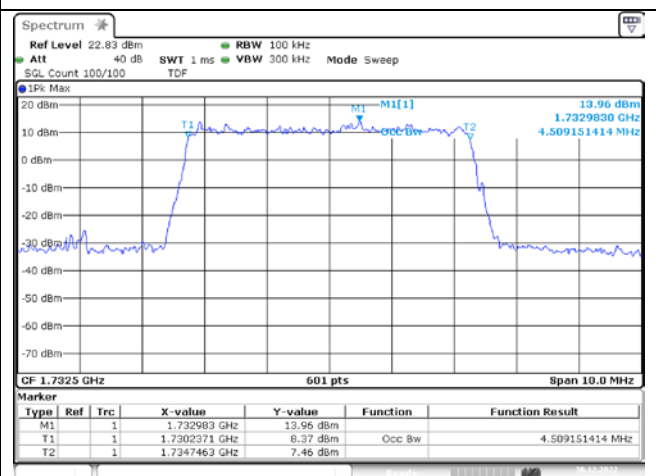
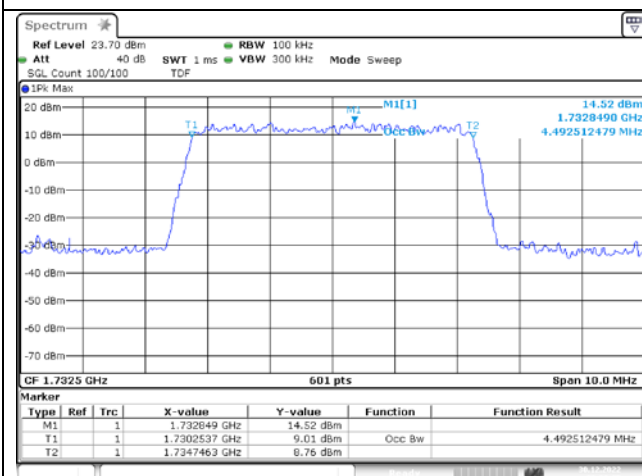
1.4 MHz QPSK Middle Channel – Full RB

1.4 MHz 16QAM Middle Channel – Full RB



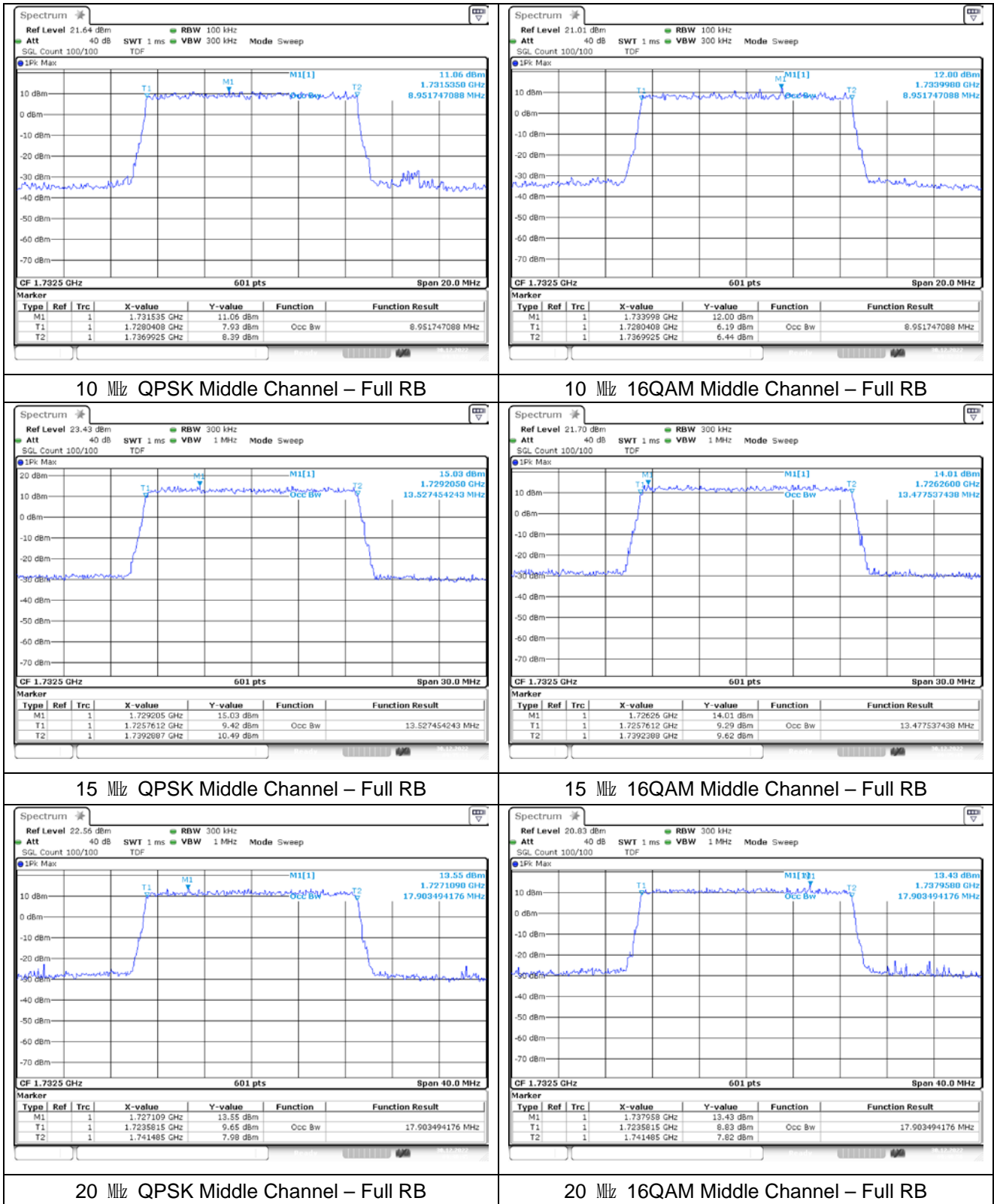
3 MHz QPSK Middle Channel – Full RB

3 MHz 16QAM Middle Channel – Full RB

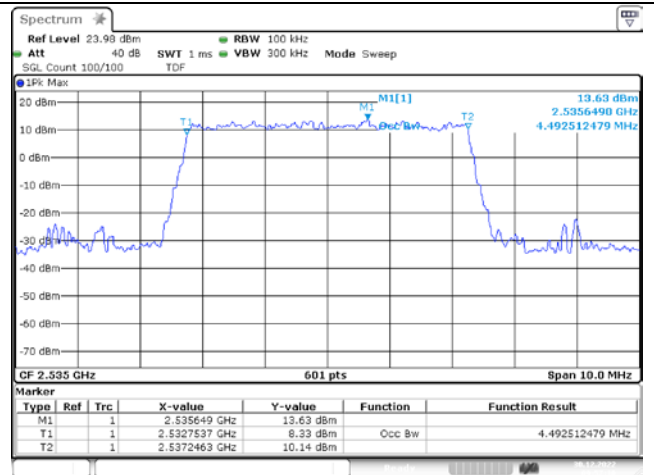
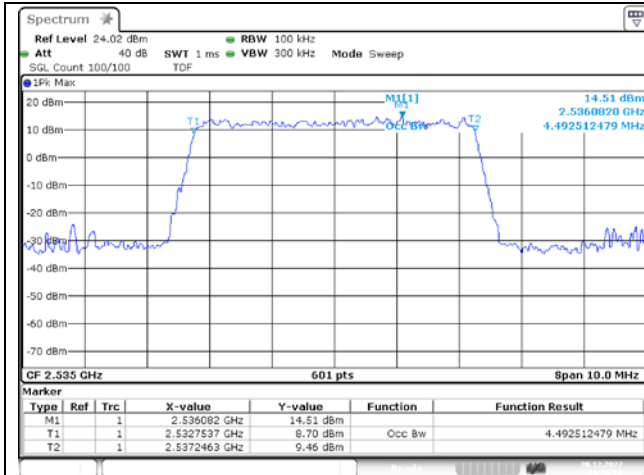


5 MHz QPSK Middle Channel – Full RB

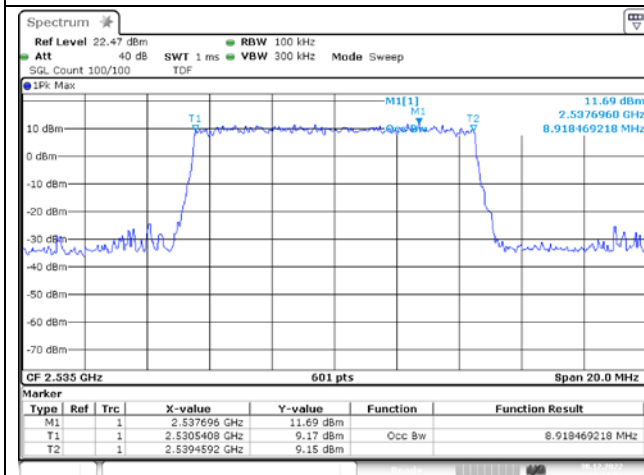
5 MHz 16QAM Middle Channel – Full RB



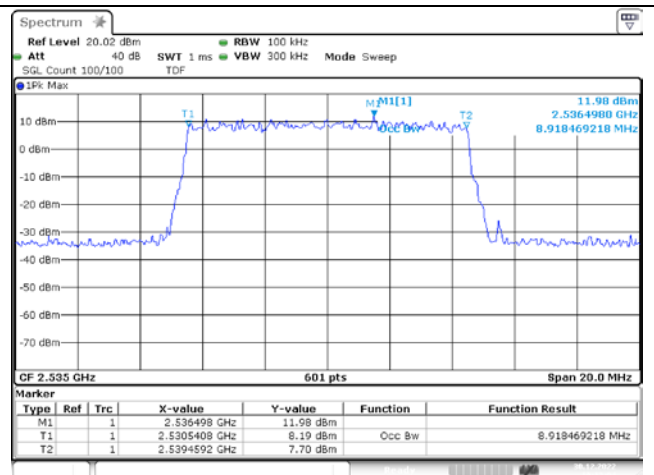
LTE band 7



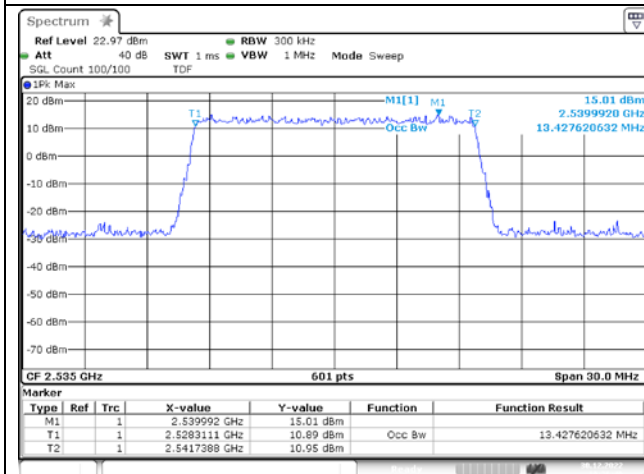
5 MHz QPSK Middle Channel – Full RB



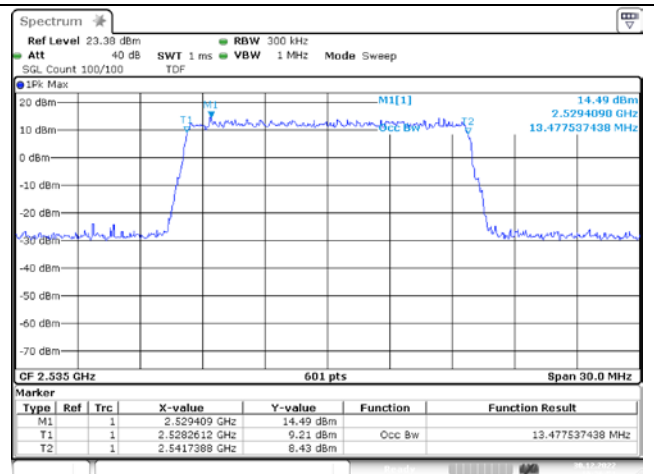
5 MHz 16QAM Middle Channel – Full RB



10 MHz QPSK Middle Channel – Full RB

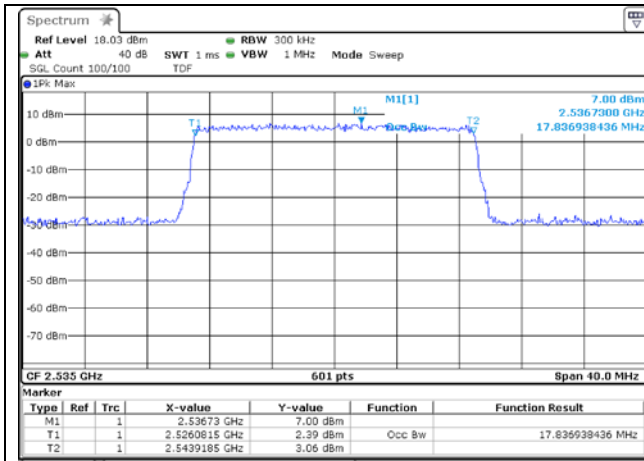


10 MHz 16QAM Middle Channel – Full RB

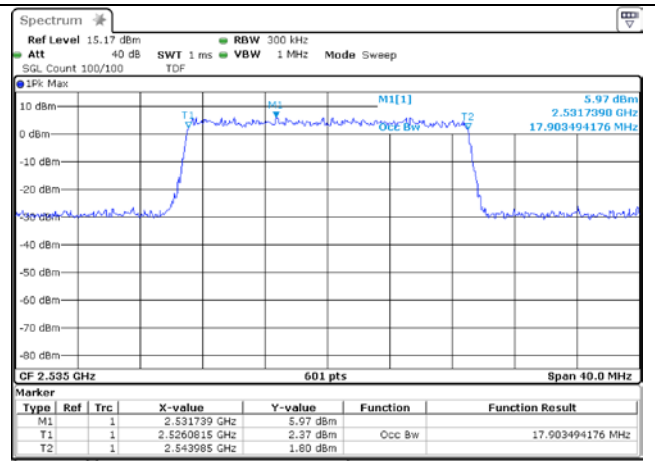


15 MHz QPSK Middle Channel – Full RB

15 MHz 16QAM Middle Channel – Full RB

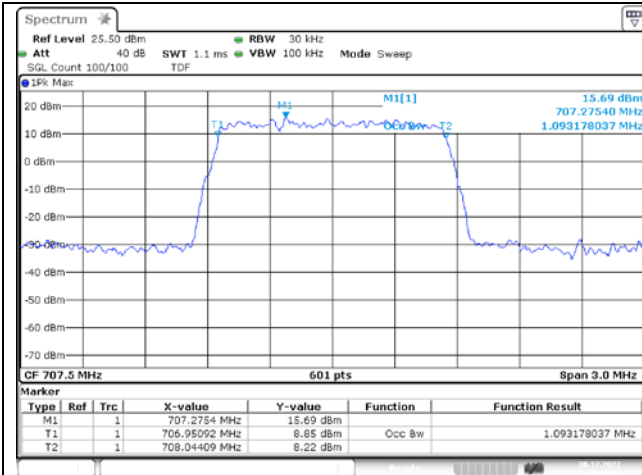


20 MHz QPSK Middle Channel – Full RB

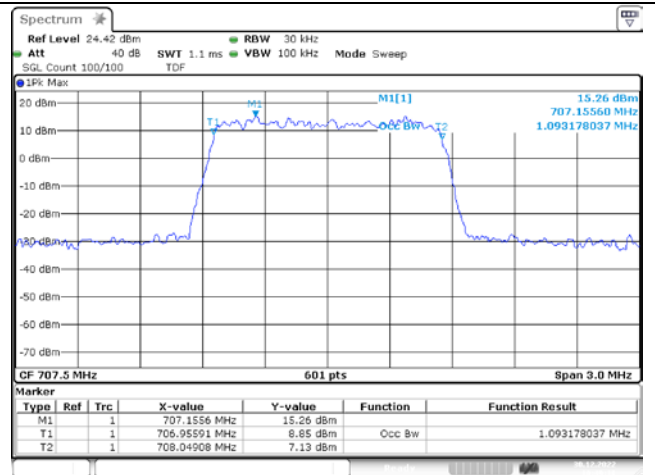


20 MHz 16QAM Middle Channel – Full RB

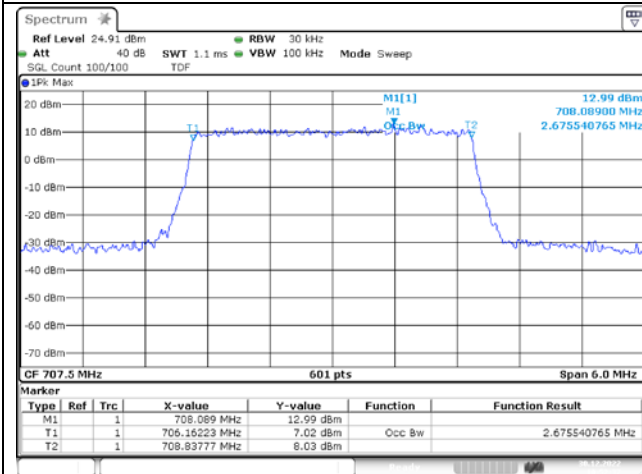
LTE band 12



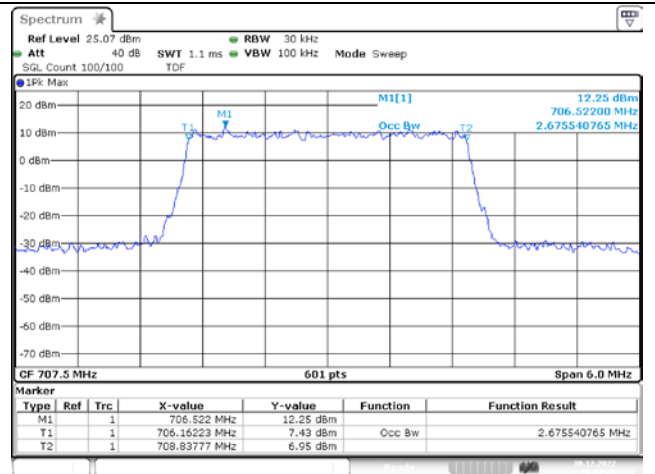
1.4 MHz QPSK Middle Channel – Full RB



1.4 MHz 16QAM Middle Channel – Full RB

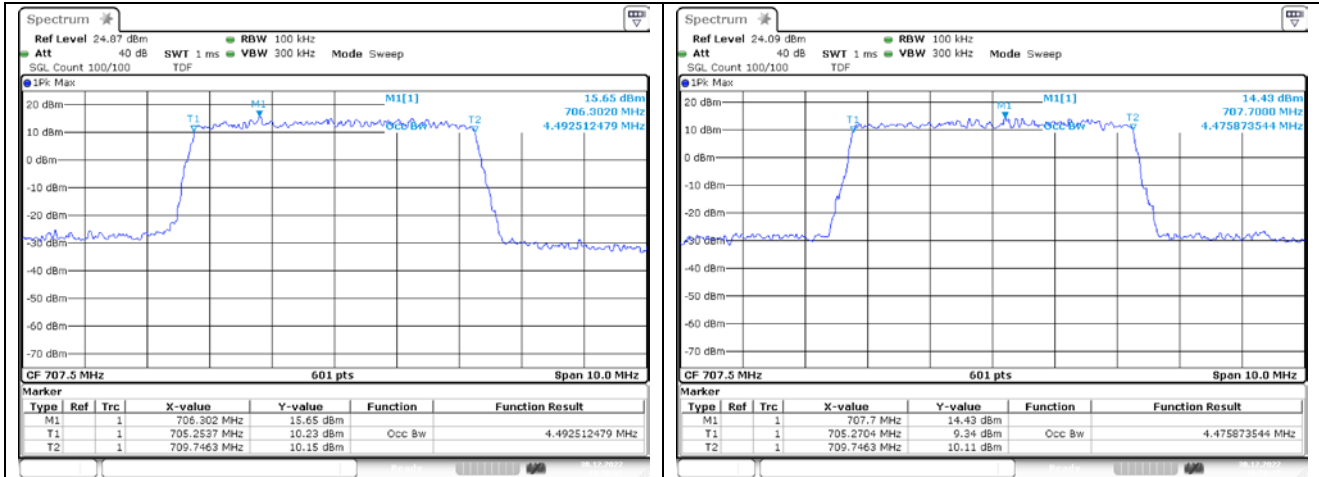


3 MHz QPSK Middle Channel – Full RB



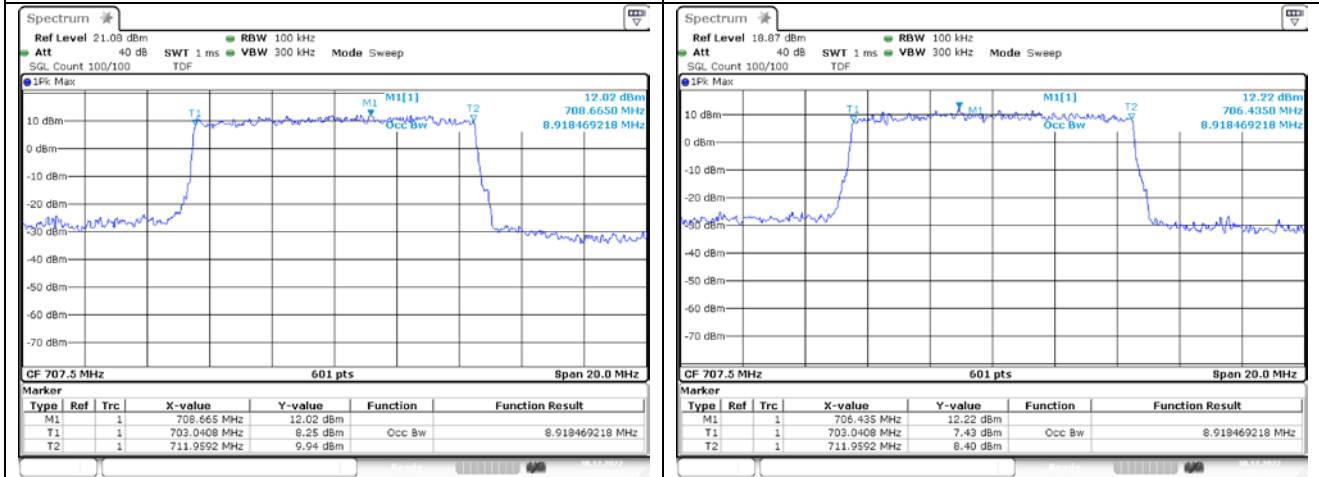
3 MHz 16QAM Middle Channel – Full RB

LTE band 12/17



5 MHz QPSK Middle Channel – Full RB

5 MHz 16QAM Middle Channel – Full RB



10 MHz QPSK Middle Channel – Full RB

10 MHz 16QAM Middle Channel – Full RB