



TEST REPORT

REPORT NUMBER: I22W00053-LTE-RF-Rev3

	ON
Type of Equipment:	LTE /HSPA/GSM/GNSS MODULE
Type of Designation:	A7608SA-H /A7608SA-H miniPCIE
Brand Name:	SIMCom
Manufacturer:	SIMCom Wireless Solutions Limited
FCC ID:	2AJYU-8BAE006

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;
GENERAL RULES AND REGULATIONS, e-CFR
PART 22, PUBLIC MOBILE SERVICES, e-CFR
PART 24, PERSONAL COMMUNICATIONS SERVICES, e-CFR
PART 27, MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR
ANSI C63.26-2015 American National Standard for Compliance Testing of Transmitters
Used in Licensed Radio Services

Chongqing Academy of Information and Communications Technology

Month date, year

Oct, 13, 2022

Signature



Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report.
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Report No.: I22W00053-LTE-RF-Rev3

Revision Version

Report Number	Revision	Date	Memo
I22W00053-LTE-RF	00	2022-08-11	Initial creation of test report
I22W00053-LTE-RF-Rev1	01	2022-09-09	First change of test report
I22W00053-LTE-RF-Rev2	02	2022-09-29	Second change of test report
I22W00053-LTE-RF-Rev3	03	2022-10-13	Third change of test report

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CONTENTS

1. Test Laboratory	5
1.1. Testing Location	5
1.2. Testing Environment	5
1.3. Project data	5
1.4. Signature	5
2. Client Information	6
2.1. Applicant Information	6
2.2. Manufacturer Information	6
3. Equipment under Test (EUT) and Ancillary Equipment (AE)	7
3.1. About EUT	7
3.2. Internal Identification of EUT used during the test	7
3.3. Outline of Equipment under Test	8
3.4. Internal Identification of AE used during the test	8
4. Reference Documents	9
4.1. Documents supplied by applicant	9
4.2. Reference Documents for testing	9
5. Test Equipments Utilized	10
5.1. RF Test System	10
5.2. RSE Test System	10
5.3. Climate Chamber	10
5.4. Vibration table	12
5.5. Test software	12
6. Test Results	13
6.1. Summary of Test Results	13
6.2. Conducted RF Power Output	14
6.3. ERP and EIRP	46

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Report No.: I22W00053-LTE-RF-Rev3

6.4. Occupied Bandwidth	78
6.5. Conducted spurious emissions	142
6.6. Radiated Spurious Emission	157
6.7. Band Edge	163
6.8. Frequency Stability	255
6.9. Peak to Average Ratio	259
Annex A EUT Photos	270
ANNEX B Deviations from Prescribed Test Methods	271

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration number:	CN1239
Address:	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2022-07-05
Testing End Date:	2022-09-29

1.4. Signature



2022-10-13

Dong Junxin
(Prepared this test report)

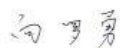
Date



2022-10-13

Li Xu
(Reviewed this test report)

Date



2022-10-13

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	Building 3, No. 289, Linhong Road, Changning District, Shanghai, P.R.China
City:	Shanghai
Country:	China
Telephone:	15902149520
Fax:	--
Email:	yue.hai@simcom.com
Contact Person:	Haiyue

2.2. Manufacturer Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	Building 3, No. 289, Linhong Road, Changning District, Shanghai, P.R.China
City:	Shanghai
Country:	China
Telephone:	15902149520
Fax:	--
Email:	yue.hai@simcom.com
Contact Person:	Haiyue

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	LTE /HSPA/GSM/GNSS MODULE
Model name	A7608SA-H /A7608SA-H miniPCIE
Brand name	SIMCom
GSM Frequency Band	2/5
WCDMA Frequency Band	2/5
LTE Frequency Band	2/4/5/41/66
Type of modulation	GMSK/8PSK/QPSK/16QAM
Extreme Temperature	-40/+85°C
Nominal Voltage	3.8
Extreme High Voltage	4.2
Extreme Low Voltage	3.4

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID	SN or IMEI	HW Version	SW Version	Date of receipt
S1	IMEI:862733060028209	V1.02	A7600M7_V5.0	2022-07-05
S2	IMEI:862733060027151	V1.02	A7600M7_V5.0	2022-07-05

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
GSM	B2	1850.2-1909.8	1930.2-1989.8	--
	B5	824.2-848.8	869.2-893.8	--
WCDMA	B2	1852.4-1907.6	1932.4-1987.6	--
	B5	826.4-846.6	871.4-891.6	--
LTE	B2	1850-1910	1930-1990	--
	B4	1710-1755	2110-2155	--
	B5	824-849	869-894	--
	B41	2496-2690	2496-2690	--
	B66	1710-1780	2110-2200	--

3.4. Internal Identification of AE used during the test

*AE ID: is used to identify the test sample in the lab internally.

AE ID	Instrument	Manufacturer	Model
AE1	XXX-EVB	SIMCOM	--
AE2	Power Adapter	Something High	P-050B-B2152
AE3	USB Cable	shenzhenshishunqinkejijouxiangong si	USB 2.0 A+MICRO Connectors
AE4	Antenna	SPEED	MF25D-black

AE info are provided customer.

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4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS, e-CFR	--
PART 22	PUBLIC MOBILE SERVICES	--
PART 24	PERSONAL COMMUNICATIONS SERVICES, e-CFR	--
PART 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR	--
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2023-06-29
2	DC Power Supply	3303D	801128	--	--	Topward	2023-06-29
3	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	2023-06-29

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2023-06-29
2	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2022-11-11
3	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2024-05-05
4	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2023-06-29
5	Double Ridged Guide Antenna	HF907	100356	--	--	R&S	2023-07-07
6	Generator	SMU 200A	104517	--	--	R&S	2023-06-29
7	Ultra-wideband Log Periodic Antenna	VULB 9163	00995	--	--	R&S	2023-04-03
8	Amplifier1	SCU-08F1	8320027	--	--	R&S	--
9	Amplifier2	SCU-08F1	180093	--	--	R&S	--

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5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2023-06-29
2	Fully anechoic chamber	FAC-5	--	TDK	2024-08-30

5.4. Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
--	--	--	--	--	--

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 9.26.01	--	R&S
2	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.

6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
2.1046,22.913(a),24.232(c),27.50,	Conducted RF Power Output	Pass
2.1046,22.913(a),24.232(c),27.50	ERP and EIRP	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth	*Note 1
2.1051,24.238,2.1053,22.917, 27.53	Conducted spurious emissions	Pass
2.1051,24.238,2.1053,22.917, 27.53	Radiated Spurious Emission	Pass
2.1051,24.238, 2.1053, 22.917, 27.53	Band Edge	Pass
2.1055, 22.355,24.235, 27.54	Frequency Stability	Pass
24.232, 27.50	Peak to Average Ratio	Pass
Note 1: No applicable performance criteria. Note 2: Explanation of worst-case configuration The worst-case scenario for all measurements is based on the conducted output power. Output power was measured on QPSK,16QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.		

6.2. Conducted RF Power Output

Specifications:	FCC Part 2.1046, 22.913(a), 24.232(c), 27.50
DUT Serial Number:	862733060028209
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to Part 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.

According to Part 27.50(c), 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.

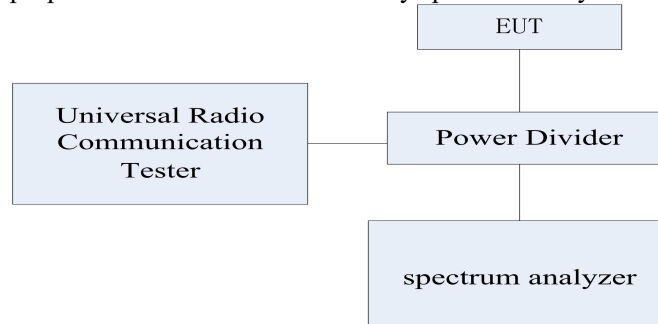
According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.62 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



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Test Method:

- 1) The EUT was coupled to the spectrum analyzer and the Wireless Telecommunications Test Set through a power divider. The loss of the RF cables of the test system is calibrated to correct the readings.
- 2) For RMS power test, the spectrum analyzer was set to RMS Detector function and Maximum hold mode.
- 3) For Peak power test, the spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 4) The resolution Bandwidth of the spectrum analyzer was comparable to the emission Bandwidth.

Note: --

6.2.1 Conducted RF Power Output Results

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	1850.7	QPSK	22.61	27.73
1.4MHz	1 RB mid	1850.7	QPSK	22.48	27.54
1.4MHz	1 RB high	1850.7	QPSK	22.58	27.63
1.4MHz	100% RB	1850.7	QPSK	21.02	27.09
1.4MHz	1 RB low	1850.7	16QAM	21.03	26.71
1.4MHz	1 RB mid	1850.7	16QAM	20.96	26.54
1.4MHz	1 RB high	1850.7	16QAM	21.02	26.71
1.4MHz	100% RB	1850.7	16QAM	20.16	26.05
1.4MHz	1 RB low	1880	QPSK	21.73	26.92
1.4MHz	1 RB mid	1880	QPSK	21.70	26.82
1.4MHz	1 RB high	1880	QPSK	21.78	26.97
1.4MHz	100% RB	1880	QPSK	20.61	26.36
1.4MHz	1 RB low	1880	16QAM	21.68	27.70
1.4MHz	1 RB mid	1880	16QAM	21.63	27.41
1.4MHz	1 RB high	1880	16QAM	21.67	27.53
1.4MHz	100% RB	1880	16QAM	19.61	26.02
1.4MHz	1 RB low	1909.3	QPSK	21.72	26.92
1.4MHz	1 RB mid	1909.3	QPSK	21.69	26.69
1.4MHz	1 RB high	1909.3	QPSK	21.93	26.82
1.4MHz	100% RB	1909.3	QPSK	20.59	25.87
1.4MHz	1 RB low	1909.3	16QAM	20.68	26.29
1.4MHz	1 RB mid	1909.3	16QAM	20.67	26.09
1.4MHz	1 RB high	1909.3	16QAM	20.96	26.28
1.4MHz	100% RB	1909.3	16QAM	19.71	26.26
1.4MHz	50%,low	1850.7	QPSK	21.79	24.69
1.4MHz	50% RB mid	1850.7	QPSK	21.88	26.67
1.4MHz	50%,high	1850.7	QPSK	21.88	24.80
1.4MHz	50%,low	1850.7	16QAM	22.00	24.95
1.4MHz	50% RB mid	1850.7	16QAM	20.84	26.47
1.4MHz	50%,high	1850.7	16QAM	22.13	25.11
1.4MHz	50%,low	1880	QPSK	21.45	24.83
1.4MHz	50% RB mid	1880	QPSK	21.71	26.90
1.4MHz	50%,high	1880	QPSK	21.72	24.71

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1.4MHz	50%,low	1880	16QAM	21.73	24.71
1.4MHz	50% RB mid	1880	16QAM	20.70	26.61
1.4MHz	50%,high	1880	16QAM	21.68	24.65
1.4MHz	50%,low	1909.3	QPSK	21.55	24.47
1.4MHz	50% RB mid	1909.3	QPSK	21.45	26.37
1.4MHz	50%,high	1909.3	QPSK	21.54	24.47
1.4MHz	50%,low	1909.3	16QAM	21.52	24.46
1.4MHz	50% RB mid	1909.3	16QAM	20.32	25.83
1.4MHz	50%,high	1909.3	16QAM	21.49	24.45
3MHz	1 RB low	1851.5	QPSK	21.94	26.39
3MHz	1 RB mid	1851.5	QPSK	22.03	26.39
3MHz	1 RB high	1851.5	QPSK	21.98	26.48
3MHz	100% RB	1851.5	QPSK	20.90	26.11
3MHz	1 RB low	1851.5	16QAM	20.74	26.39
3MHz	1 RB mid	1851.5	16QAM	20.79	26.38
3MHz	1 RB high	1851.5	16QAM	20.68	26.38
3MHz	100% RB	1851.5	16QAM	19.93	27.13
3MHz	1 RB low	1880	QPSK	21.38	26.57
3MHz	1 RB mid	1880	QPSK	21.62	26.70
3MHz	1 RB high	1880	QPSK	21.57	26.66
3MHz	100% RB	1880	QPSK	20.49	26.31
3MHz	1 RB low	1880	16QAM	20.37	25.60
3MHz	1 RB mid	1880	16QAM	20.59	25.82
3MHz	1 RB high	1880	16QAM	20.59	25.91
3MHz	100% RB	1880	16QAM	19.55	26.76
3MHz	1 RB low	1908.5	QPSK	21.06	25.92
3MHz	1 RB mid	1908.5	QPSK	21.39	25.93
3MHz	1 RB high	1908.5	QPSK	21.59	26.09
3MHz	100% RB	1908.5	QPSK	20.28	26.28
3MHz	1 RB low	1908.5	16QAM	20.06	25.27
3MHz	1 RB mid	1908.5	16QAM	20.40	25.34
3MHz	1 RB high	1908.5	16QAM	20.73	25.61
3MHz	100% RB	1908.5	16QAM	19.44	25.45
3MHz	50%,low	1851.5	QPSK	21.98	24.88
3MHz	50% RB mid	1851.5	QPSK	20.72	25.81
3MHz	50%,high	1851.5	QPSK	21.54	24.42
3MHz	50%,low	1851.5	16QAM	22.00	24.84
3MHz	50% RB mid	1851.5	16QAM	19.95	26.22

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3MHz	50%,high	1851.5	16QAM	21.98	24.90
3MHz	50%,low	1880	QPSK	21.43	24.37
3MHz	50% RB mid	1880	QPSK	20.63	25.89
3MHz	50%,high	1880	QPSK	21.62	24.61
3MHz	50%,low	1880	16QAM	21.63	24.61
3MHz	50% RB mid	1880	16QAM	19.72	25.88
3MHz	50%,high	1880	16QAM	21.60	24.58
3MHz	50%,low	1908.5	QPSK	21.23	24.14
3MHz	50% RB mid	1908.5	QPSK	20.27	25.44
3MHz	50%,high	1908.5	QPSK	21.19	24.10
3MHz	50%,low	1908.5	16QAM	21.17	24.09
3MHz	50% RB mid	1908.5	16QAM	19.36	25.34
3MHz	50%,high	1908.5	16QAM	21.18	24.14
5MHz	1 RB low	1852.5	QPSK	21.97	26.46
5MHz	1 RB mid	1852.5	QPSK	22.11	26.52
5MHz	1 RB high	1852.5	QPSK	21.99	26.55
5MHz	100% RB	1852.5	QPSK	20.82	26.41
5MHz	1 RB low	1852.5	16QAM	20.86	25.90
5MHz	1 RB mid	1852.5	16QAM	20.86	25.79
5MHz	1 RB high	1852.5	16QAM	20.79	26.00
5MHz	100% RB	1852.5	16QAM	19.99	25.85
5MHz	1 RB low	1880	QPSK	21.29	25.65
5MHz	1 RB mid	1880	QPSK	21.63	25.91
5MHz	1 RB high	1880	QPSK	21.64	25.93
5MHz	100% RB	1880	QPSK	20.50	26.63
5MHz	1 RB low	1880	16QAM	20.35	25.32
5MHz	1 RB mid	1880	16QAM	20.72	25.54
5MHz	1 RB high	1880	16QAM	20.63	25.55
5MHz	100% RB	1880	16QAM	19.58	25.77
5MHz	1 RB low	1907.5	QPSK	20.76	25.31
5MHz	1 RB mid	1907.5	QPSK	21.17	25.57
5MHz	1 RB high	1907.5	QPSK	21.53	25.81
5MHz	100% RB	1907.5	QPSK	20.03	25.71
5MHz	1 RB low	1907.5	16QAM	19.57	24.98
5MHz	1 RB mid	1907.5	16QAM	20.09	25.15
5MHz	1 RB high	1907.5	16QAM	20.57	25.66
5MHz	100% RB	1907.5	16QAM	19.19	26.12
5MHz	50%,low	1852.5	QPSK	21.08	24.07

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5MHz	50% RB mid	1852.5	QPSK	20.77	26.35
5MHz	50%,high	1852.5	QPSK	21.42	24.40
5MHz	50%,low	1852.5	16QAM	21.40	24.32
5MHz	50% RB mid	1852.5	16QAM	19.98	25.64
5MHz	50%,high	1852.5	16QAM	21.40	24.32
5MHz	50%,low	1880	QPSK	21.38	24.37
5MHz	50% RB mid	1880	QPSK	20.67	26.45
5MHz	50%,high	1880	QPSK	21.36	24.35
5MHz	50%,low	1880	16QAM	21.34	24.31
5MHz	50% RB mid	1880	16QAM	19.86	25.72
5MHz	50%,high	1880	16QAM	21.38	24.32
5MHz	50%,low	1907.5	QPSK	21.24	24.24
5MHz	50% RB mid	1907.5	QPSK	20.01	25.84
5MHz	50%,high	1907.5	QPSK	20.98	23.99
5MHz	50%,low	1907.5	16QAM	21.23	24.22
5MHz	50% RB mid	1907.5	16QAM	19.20	25.14
5MHz	50%,high	1907.5	16QAM	21.20	24.14
10MHz	1 RB low	1855	QPSK	21.83	26.32
10MHz	1 RB mid	1855	QPSK	21.76	26.25
10MHz	1 RB high	1855	QPSK	20.87	25.79
10MHz	100% RB	1855	QPSK	20.61	26.43
10MHz	1 RB low	1855	16QAM	20.65	26.33
10MHz	1 RB mid	1855	16QAM	20.79	26.41
10MHz	1 RB high	1855	16QAM	19.91	26.10
10MHz	100% RB	1855	16QAM	19.63	26.04
10MHz	1 RB low	1880	QPSK	20.75	26.04
10MHz	1 RB mid	1880	QPSK	21.48	26.58
10MHz	1 RB high	1880	QPSK	21.61	26.70
10MHz	100% RB	1880	QPSK	20.37	26.42
10MHz	1 RB low	1880	16QAM	19.76	25.15
10MHz	1 RB mid	1880	16QAM	20.51	25.64
10MHz	1 RB high	1880	16QAM	20.65	25.92
10MHz	100% RB	1880	16QAM	19.50	26.25
10MHz	1 RB low	1905	QPSK	20.24	25.44
10MHz	1 RB mid	1905	QPSK	20.56	25.58
10MHz	1 RB high	1905	QPSK	21.25	25.89
10MHz	100% RB	1905	QPSK	19.41	25.38
10MHz	1 RB low	1905	16QAM	19.53	25.03

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

10MHz	1 RB mid	1905	16QAM	19.56	24.75
10MHz	1 RB high	1905	16QAM	20.43	25.44
10MHz	100% RB	1905	16QAM	18.62	25.42
10MHz	50%,low	1855	QPSK	21.96	24.84
10MHz	50% RB mid	1855	QPSK	20.82	26.20
10MHz	50%,high	1855	QPSK	21.93	24.83
10MHz	50%,low	1855	16QAM	21.93	24.83
10MHz	50% RB mid	1855	16QAM	19.86	26.30
10MHz	50%,high	1855	16QAM	22.03	24.88
10MHz	50%,low	1880	QPSK	21.23	24.10
10MHz	50% RB mid	1880	QPSK	20.59	26.07
10MHz	50%,high	1880	QPSK	21.20	24.11
10MHz	50%,low	1880	16QAM	21.18	24.03
10MHz	50% RB mid	1880	16QAM	19.70	26.23
10MHz	50%,high	1880	16QAM	20.93	23.83
10MHz	50%,low	1905	QPSK	19.79	22.78
10MHz	50% RB mid	1905	QPSK	19.57	25.37
10MHz	50%,high	1905	QPSK	20.05	23.09
10MHz	50%,low	1905	16QAM	19.98	23.04
10MHz	50% RB mid	1905	16QAM	18.76	25.64
10MHz	50%,high	1905	16QAM	19.80	22.85
15MHz	1 RB low	1857.5	QPSK	22.01	26.45
15MHz	1 RB mid	1857.5	QPSK	21.44	26.15
15MHz	1 RB high	1857.5	QPSK	20.63	25.64
15MHz	100% RB	1857.5	QPSK	20.37	26.36
15MHz	1 RB low	1857.5	16QAM	20.79	26.44
15MHz	1 RB mid	1857.5	16QAM	20.57	26.46
15MHz	1 RB high	1857.5	16QAM	19.71	26.03
15MHz	100% RB	1857.5	16QAM	19.34	26.01
15MHz	1 RB low	1880	QPSK	20.74	26.05
15MHz	1 RB mid	1880	QPSK	21.55	26.52
15MHz	1 RB high	1880	QPSK	21.84	26.79
15MHz	100% RB	1880	QPSK	20.66	27.04
15MHz	1 RB low	1880	16QAM	19.86	25.18
15MHz	1 RB mid	1880	16QAM	20.76	25.83
15MHz	1 RB high	1880	16QAM	20.90	26.02
15MHz	100% RB	1880	16QAM	19.73	26.53
15MHz	1 RB low	1902.5	QPSK	21.35	26.28

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

15MHz	1 RB mid	1902.5	QPSK	20.26	25.26
15MHz	1 RB high	1902.5	QPSK	21.27	25.88
15MHz	100% RB	1902.5	QPSK	19.57	25.95
15MHz	1 RB low	1902.5	16QAM	20.62	25.90
15MHz	1 RB mid	1902.5	16QAM	19.57	24.82
15MHz	1 RB high	1902.5	16QAM	20.37	25.32
15MHz	100% RB	1902.5	16QAM	18.60	26.22
15MHz	50%,low	1857.5	QPSK	22.02	24.83
15MHz	50% RB mid	1857.5	QPSK	20.66	26.37
15MHz	50%,high	1857.5	QPSK	21.99	24.81
15MHz	50%,low	1857.5	16QAM	21.77	24.60
15MHz	50% RB mid	1857.5	16QAM	19.72	26.31
15MHz	50%,high	1857.5	16QAM	21.93	24.74
15MHz	50%,low	1880	QPSK	21.37	24.18
15MHz	50% RB mid	1880	QPSK	20.71	26.75
15MHz	50%,high	1880	QPSK	21.33	24.15
15MHz	50%,low	1880	16QAM	21.36	24.16
15MHz	50% RB mid	1880	16QAM	19.75	25.73
15MHz	50%,high	1880	16QAM	21.17	23.99
15MHz	50%,low	1902.5	QPSK	20.79	23.69
15MHz	50% RB mid	1902.5	QPSK	19.90	25.99
15MHz	50%,high	1902.5	QPSK	20.70	23.63
15MHz	50%,low	1902.5	16QAM	20.66	23.59
15MHz	50% RB mid	1902.5	16QAM	18.89	25.80
15MHz	50%,high	1902.5	16QAM	20.63	23.55
20MHz	1 RB low	1860	QPSK	21.92	27.20
20MHz	1 RB mid	1860	QPSK	20.83	26.67
20MHz	1 RB high	1860	QPSK	20.57	26.62
20MHz	100% RB	1860	QPSK	19.73	25.75
20MHz	1 RB low	1860	16QAM	20.90	25.42
20MHz	1 RB mid	1860	16QAM	20.10	25.04
20MHz	1 RB high	1860	16QAM	19.43	24.35
20MHz	100% RB	1860	16QAM	18.80	25.80
20MHz	1 RB low	1880	QPSK	20.70	25.95
20MHz	1 RB mid	1880	QPSK	21.60	26.60
20MHz	1 RB high	1880	QPSK	21.97	26.80
20MHz	100% RB	1880	QPSK	20.69	26.75
20MHz	1 RB low	1880	16QAM	19.61	25.51

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Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

20MHz	1 RB mid	1880	16QAM	20.70	26.26
20MHz	1 RB high	1880	16QAM	20.90	26.47
20MHz	100% RB	1880	16QAM	19.77	26.96
20MHz	1 RB low	1900	QPSK	22.09	26.67
20MHz	1 RB mid	1900	QPSK	20.40	25.39
20MHz	1 RB high	1900	QPSK	21.23	25.79
20MHz	100% RB	1900	QPSK	19.50	25.68
20MHz	1 RB low	1900	16QAM	20.82	26.10
20MHz	1 RB mid	1900	16QAM	19.60	25.26
20MHz	1 RB high	1900	16QAM	20.20	25.35
20MHz	100% RB	1900	16QAM	18.52	25.53
20MHz	50%,low	1860	QPSK	20.79	23.71
20MHz	50% RB mid	1860	QPSK	20.20	26.19
20MHz	50%,high	1860	QPSK	20.79	23.70
20MHz	50%,low	1860	16QAM	20.97	23.86
20MHz	50% RB mid	1860	16QAM	19.22	26.27
20MHz	50%,high	1860	16QAM	20.77	23.69
20MHz	50%,low	1880	QPSK	20.59	23.51
20MHz	50% RB mid	1880	QPSK	20.71	26.48
20MHz	50%,high	1880	QPSK	20.84	23.76
20MHz	50%,low	1880	16QAM	20.82	23.73
20MHz	50% RB mid	1880	16QAM	19.80	26.52
20MHz	50%,high	1880	16QAM	20.86	23.77
20MHz	50%,low	1900	QPSK	21.97	24.80
20MHz	50% RB mid	1900	QPSK	19.83	25.98
20MHz	50%,high	1900	QPSK	21.89	24.73
20MHz	50%,low	1900	16QAM	21.86	24.69
20MHz	50% RB mid	1900	16QAM	18.88	26.03
20MHz	50%,high	1900	16QAM	21.88	24.70

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	1710.7	QPSK	22.69	27.88
1.4MHz	1 RB mid	1710.7	QPSK	22.62	27.72
1.4MHz	1 RB high	1710.7	QPSK	22.74	27.78
1.4MHz	100% RB	1710.7	QPSK	21.74	27.30
1.4MHz	1 RB low	1710.7	16QAM	21.93	27.57
1.4MHz	1 RB mid	1710.7	16QAM	21.89	27.39

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

1.4MHz	1 RB high	1710.7	16QAM	22.03	27.46
1.4MHz	100% RB	1710.7	16QAM	20.82	27.51
1.4MHz	1 RB low	1732.5	QPSK	21.06	26.38
1.4MHz	1 RB mid	1732.5	QPSK	20.98	26.20
1.4MHz	1 RB high	1732.5	QPSK	21.09	26.48
1.4MHz	100% RB	1732.5	QPSK	20.06	26.70
1.4MHz	1 RB low	1732.5	16QAM	20.09	26.77
1.4MHz	1 RB mid	1732.5	16QAM	20.02	26.57
1.4MHz	1 RB high	1732.5	16QAM	20.14	26.78
1.4MHz	100% RB	1732.5	16QAM	19.20	25.85
1.4MHz	1 RB low	1754.3	QPSK	20.59	26.42
1.4MHz	1 RB mid	1754.3	QPSK	20.42	26.24
1.4MHz	1 RB high	1754.3	QPSK	20.54	26.37
1.4MHz	100% RB	1754.3	QPSK	19.66	26.13
1.4MHz	1 RB low	1754.3	16QAM	20.01	26.09
1.4MHz	1 RB mid	1754.3	16QAM	19.87	25.75
1.4MHz	1 RB high	1754.3	16QAM	19.95	26.02
1.4MHz	100% RB	1754.3	16QAM	18.62	25.82
1.4MHz	50%,low	1710.7	QPSK	22.05	25.23
1.4MHz	50% RB mid	1710.7	QPSK	22.25	27.66
1.4MHz	50%,high	1710.7	QPSK	22.23	25.32
1.4MHz	50%,low	1710.7	16QAM	22.24	25.34
1.4MHz	50% RB mid	1710.7	16QAM	21.44	27.70
1.4MHz	50%,high	1710.7	16QAM	22.23	25.32
1.4MHz	50%,low	1732.5	QPSK	20.98	24.34
1.4MHz	50% RB mid	1732.5	QPSK	20.87	26.83
1.4MHz	50%,high	1732.5	QPSK	20.96	24.32
1.4MHz	50%,low	1732.5	16QAM	20.95	24.33
1.4MHz	50% RB mid	1732.5	16QAM	20.03	26.54
1.4MHz	50%,high	1732.5	16QAM	20.92	24.31
1.4MHz	50%,low	1754.3	QPSK	20.79	24.23
1.4MHz	50% RB mid	1754.3	QPSK	20.67	26.65
1.4MHz	50%,high	1754.3	QPSK	20.77	24.20
1.4MHz	50%,low	1754.3	16QAM	20.72	24.15
1.4MHz	50% RB mid	1754.3	16QAM	19.85	26.34
1.4MHz	50%,high	1754.3	16QAM	20.77	24.20
3MHz	1 RB low	1711.5	QPSK	22.54	27.29
3MHz	1 RB mid	1711.5	QPSK	22.68	27.17

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Tel: 0086-23-88069965 FAX:0086-23-88608777

3MHz	1 RB high	1711.5	QPSK	22.64	27.14
3MHz	100% RB	1711.5	QPSK	21.72	27.39
3MHz	1 RB low	1711.5	16QAM	21.56	27.46
3MHz	1 RB mid	1711.5	16QAM	21.73	27.35
3MHz	1 RB high	1711.5	16QAM	21.65	27.28
3MHz	100% RB	1711.5	16QAM	20.74	27.74
3MHz	1 RB low	1732.5	QPSK	20.91	26.79
3MHz	1 RB mid	1732.5	QPSK	20.94	26.69
3MHz	1 RB high	1732.5	QPSK	21.02	26.78
3MHz	100% RB	1732.5	QPSK	20.03	26.48
3MHz	1 RB low	1732.5	16QAM	20.20	26.15
3MHz	1 RB mid	1732.5	16QAM	20.24	26.14
3MHz	1 RB high	1732.5	16QAM	20.32	26.31
3MHz	100% RB	1732.5	16QAM	19.12	27.02
3MHz	1 RB low	1753.5	QPSK	20.68	26.16
3MHz	1 RB mid	1753.5	QPSK	20.52	25.89
3MHz	1 RB high	1753.5	QPSK	20.30	25.87
3MHz	100% RB	1753.5	QPSK	19.66	26.20
3MHz	1 RB low	1753.5	16QAM	20.07	25.97
3MHz	1 RB mid	1753.5	16QAM	19.88	25.60
3MHz	1 RB high	1753.5	16QAM	19.67	25.51
3MHz	100% RB	1753.5	16QAM	18.76	25.42
3MHz	50%,low	1711.5	QPSK	22.50	25.75
3MHz	50% RB mid	1711.5	QPSK	21.38	26.96
3MHz	50%,high	1711.5	QPSK	22.56	25.80
3MHz	50%,low	1711.5	16QAM	22.55	25.80
3MHz	50% RB mid	1711.5	16QAM	20.41	26.97
3MHz	50%,high	1711.5	16QAM	22.55	25.81
3MHz	50%,low	1732.5	QPSK	20.98	24.41
3MHz	50% RB mid	1732.5	QPSK	20.01	25.98
3MHz	50%,high	1732.5	QPSK	20.95	24.31
3MHz	50%,low	1732.5	16QAM	20.93	24.24
3MHz	50% RB mid	1732.5	16QAM	19.12	26.09
3MHz	50%,high	1732.5	16QAM	20.96	24.34
3MHz	50%,low	1753.5	QPSK	20.92	24.35
3MHz	50% RB mid	1753.5	QPSK	19.80	25.97
3MHz	50%,high	1753.5	QPSK	20.61	24.04
3MHz	50%,low	1753.5	16QAM	20.81	24.27

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

3MHz	50% RB mid	1753.5	16QAM	18.94	26.14
3MHz	50%,high	1753.5	16QAM	20.78	24.21
5MHz	1 RB low	1712.5	QPSK	22.57	27.36
5MHz	1 RB mid	1712.5	QPSK	22.78	27.19
5MHz	1 RB high	1712.5	QPSK	22.51	27.07
5MHz	100% RB	1712.5	QPSK	21.64	27.34
5MHz	1 RB low	1712.5	16QAM	21.65	27.07
5MHz	1 RB mid	1712.5	16QAM	21.86	26.92
5MHz	1 RB high	1712.5	16QAM	21.53	26.83
5MHz	100% RB	1712.5	16QAM	20.80	27.45
5MHz	1 RB low	1732.5	QPSK	20.90	25.92
5MHz	1 RB mid	1732.5	QPSK	21.03	25.92
5MHz	1 RB high	1732.5	QPSK	21.19	26.05
5MHz	100% RB	1732.5	QPSK	20.06	26.29
5MHz	1 RB low	1732.5	16QAM	20.25	25.96
5MHz	1 RB mid	1732.5	16QAM	20.38	25.86
5MHz	1 RB high	1732.5	16QAM	20.46	26.02
5MHz	100% RB	1732.5	16QAM	19.19	26.12
5MHz	1 RB low	1752.5	QPSK	20.96	25.98
5MHz	1 RB mid	1752.5	QPSK	20.77	25.82
5MHz	1 RB high	1752.5	QPSK	20.37	25.51
5MHz	100% RB	1752.5	QPSK	19.77	26.05
5MHz	1 RB low	1752.5	16QAM	20.16	26.09
5MHz	1 RB mid	1752.5	16QAM	19.96	25.73
5MHz	1 RB high	1752.5	16QAM	19.62	25.67
5MHz	100% RB	1752.5	16QAM	18.92	25.96
5MHz	50%,low	1712.5	QPSK	21.63	24.89
5MHz	50% RB mid	1712.5	QPSK	21.39	27.52
5MHz	50%,high	1712.5	QPSK	21.62	24.84
5MHz	50%,low	1712.5	16QAM	21.60	24.80
5MHz	50% RB mid	1712.5	16QAM	20.62	26.83
5MHz	50%,high	1712.5	16QAM	21.61	24.86
5MHz	50%,low	1732.5	QPSK	20.80	24.14
5MHz	50% RB mid	1732.5	QPSK	20.05	27.05
5MHz	50%,high	1732.5	QPSK	20.76	24.11
5MHz	50%,low	1732.5	16QAM	20.79	24.12
5MHz	50% RB mid	1732.5	16QAM	19.26	25.90
5MHz	50%,high	1732.5	16QAM	20.71	24.02

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Tel: 0086-23-88069965 FAX:0086-23-88608777

5MHz	50%,low	1752.5	QPSK	20.53	23.92
5MHz	50% RB mid	1752.5	QPSK	19.94	26.77
5MHz	50%,high	1752.5	QPSK	20.56	23.93
5MHz	50%,low	1752.5	16QAM	20.55	23.90
5MHz	50% RB mid	1752.5	16QAM	19.22	25.90
5MHz	50%,high	1752.5	16QAM	20.57	23.90
10MHz	1 RB low	1715	QPSK	22.39	27.25
10MHz	1 RB mid	1715	QPSK	22.41	26.92
10MHz	1 RB high	1715	QPSK	21.22	26.44
10MHz	100% RB	1715	QPSK	21.20	27.20
10MHz	1 RB low	1715	16QAM	21.41	27.43
10MHz	1 RB mid	1715	16QAM	21.41	27.04
10MHz	1 RB high	1715	16QAM	20.28	26.70
10MHz	100% RB	1715	16QAM	20.31	26.85
10MHz	1 RB low	1732.5	QPSK	20.63	26.69
10MHz	1 RB mid	1732.5	QPSK	20.90	26.76
10MHz	1 RB high	1732.5	QPSK	21.13	26.92
10MHz	100% RB	1732.5	QPSK	19.93	26.89
10MHz	1 RB low	1732.5	16QAM	19.86	26.00
10MHz	1 RB mid	1732.5	16QAM	20.21	26.05
10MHz	1 RB high	1732.5	16QAM	20.38	26.30
10MHz	100% RB	1732.5	16QAM	19.09	26.75
10MHz	1 RB low	1750	QPSK	21.12	26.50
10MHz	1 RB mid	1750	QPSK	20.94	26.40
10MHz	1 RB high	1750	QPSK	20.18	25.84
10MHz	100% RB	1750	QPSK	19.88	26.76
10MHz	1 RB low	1750	16QAM	20.50	26.19
10MHz	1 RB mid	1750	16QAM	20.30	25.97
10MHz	1 RB high	1750	16QAM	19.53	25.45
10MHz	100% RB	1750	16QAM	18.94	26.29
10MHz	50%,low	1715	QPSK	22.63	25.68
10MHz	50% RB mid	1715	QPSK	21.23	27.06
10MHz	50%,high	1715	QPSK	22.59	25.63
10MHz	50%,low	1715	16QAM	22.56	25.61
10MHz	50% RB mid	1715	16QAM	20.38	27.12
10MHz	50%,high	1715	16QAM	22.61	25.66
10MHz	50%,low	1732.5	QPSK	20.60	23.87
10MHz	50% RB mid	1732.5	QPSK	20.01	26.57

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Tel: 0086-23-88069965 FAX:0086-23-88608777

10MHz	50%,high	1732.5	QPSK	20.60	23.82
10MHz	50%,low	1732.5	16QAM	20.59	23.84
10MHz	50% RB mid	1732.5	16QAM	19.13	26.74
10MHz	50%,high	1732.5	16QAM	20.21	23.48
10MHz	50%,low	1750	QPSK	21.06	24.33
10MHz	50% RB mid	1750	QPSK	20.04	26.55
10MHz	50%,high	1750	QPSK	20.86	24.09
10MHz	50%,low	1750	16QAM	20.88	24.09
10MHz	50% RB mid	1750	16QAM	19.14	26.62
10MHz	50%,high	1750	16QAM	20.85	24.09
15MHz	1 RB low	1717.5	QPSK	22.37	27.54
15MHz	1 RB mid	1717.5	QPSK	22.19	27.06
15MHz	1 RB high	1717.5	QPSK	21.33	26.87
15MHz	100% RB	1717.5	QPSK	20.80	27.30
15MHz	1 RB low	1717.5	16QAM	21.61	27.07
15MHz	1 RB mid	1717.5	16QAM	21.39	26.69
15MHz	1 RB high	1717.5	16QAM	20.53	26.39
15MHz	100% RB	1717.5	16QAM	19.80	27.40
15MHz	1 RB low	1732.5	QPSK	21.07	26.54
15MHz	1 RB mid	1732.5	QPSK	21.17	26.50
15MHz	1 RB high	1732.5	QPSK	21.66	26.85
15MHz	100% RB	1732.5	QPSK	20.26	26.96
15MHz	1 RB low	1732.5	16QAM	20.04	26.85
15MHz	1 RB mid	1732.5	16QAM	20.14	26.89
15MHz	1 RB high	1732.5	16QAM	20.58	27.16
15MHz	100% RB	1732.5	16QAM	19.36	26.90
15MHz	1 RB low	1747.5	QPSK	21.60	27.21
15MHz	1 RB mid	1747.5	QPSK	21.25	26.79
15MHz	1 RB high	1747.5	QPSK	20.40	26.32
15MHz	100% RB	1747.5	QPSK	20.32	27.24
15MHz	1 RB low	1747.5	16QAM	21.00	26.70
15MHz	1 RB mid	1747.5	16QAM	20.76	26.44
15MHz	1 RB high	1747.5	16QAM	19.89	25.87
15MHz	100% RB	1747.5	16QAM	19.39	26.78
15MHz	50%,low	1717.5	QPSK	22.56	25.58
15MHz	50% RB mid	1717.5	QPSK	20.99	26.98
15MHz	50%,high	1717.5	QPSK	22.64	25.66
15MHz	50%,low	1717.5	16QAM	22.62	25.65

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

15MHz	50% RB mid	1717.5	16QAM	20.00	26.88
15MHz	50%,high	1717.5	16QAM	22.61	25.62
15MHz	50%,low	1732.5	QPSK	20.83	23.96
15MHz	50% RB mid	1732.5	QPSK	20.09	26.72
15MHz	50%,high	1732.5	QPSK	20.93	24.04
15MHz	50%,low	1732.5	16QAM	20.97	24.08
15MHz	50% RB mid	1732.5	16QAM	19.20	26.71
15MHz	50%,high	1732.5	16QAM	20.97	24.08
15MHz	50%,low	1747.5	QPSK	21.50	24.59
15MHz	50% RB mid	1747.5	QPSK	20.37	26.81
15MHz	50%,high	1747.5	QPSK	21.44	24.52
15MHz	50%,low	1747.5	16QAM	21.40	24.48
15MHz	50% RB mid	1747.5	16QAM	19.41	26.74
15MHz	50%,high	1747.5	16QAM	21.45	24.53
20MHz	1 RB low	1720	QPSK	22.38	27.83
20MHz	1 RB mid	1720	QPSK	21.14	27.09
20MHz	1 RB high	1720	QPSK	20.87	27.42
20MHz	100% RB	1720	QPSK	19.98	26.48
20MHz	1 RB low	1720	16QAM	21.58	26.50
20MHz	1 RB mid	1720	16QAM	20.45	25.75
20MHz	1 RB high	1720	16QAM	19.95	25.30
20MHz	100% RB	1720	16QAM	19.04	26.58
20MHz	1 RB low	1732.5	QPSK	20.91	26.59
20MHz	1 RB mid	1732.5	QPSK	21.06	26.75
20MHz	1 RB high	1732.5	QPSK	21.69	27.15
20MHz	100% RB	1732.5	QPSK	20.20	26.90
20MHz	1 RB low	1732.5	16QAM	20.19	26.59
20MHz	1 RB mid	1732.5	16QAM	20.38	26.70
20MHz	1 RB high	1732.5	16QAM	20.96	27.11
20MHz	100% RB	1732.5	16QAM	19.31	27.31
20MHz	1 RB low	1745	QPSK	21.14	26.38
20MHz	1 RB mid	1745	QPSK	21.59	26.68
20MHz	1 RB high	1745	QPSK	20.49	25.90
20MHz	100% RB	1745	QPSK	20.37	26.77
20MHz	1 RB low	1745	16QAM	20.30	26.10
20MHz	1 RB mid	1745	16QAM	20.77	26.53
20MHz	1 RB high	1745	16QAM	19.64	25.69
20MHz	100% RB	1745	16QAM	19.44	26.73

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

20MHz	50%,low	1720	QPSK	20.52	23.70
20MHz	50% RB mid	1720	QPSK	20.28	26.81
20MHz	50%,high	1720	QPSK	20.56	23.73
20MHz	50%,low	1720	16QAM	20.52	23.69
20MHz	50% RB mid	1720	16QAM	19.44	26.88
20MHz	50%,high	1720	16QAM	20.51	23.69
20MHz	50%,low	1732.5	QPSK	21.19	24.36
20MHz	50% RB mid	1732.5	QPSK	20.03	26.79
20MHz	50%,high	1732.5	QPSK	21.10	24.27
20MHz	50%,low	1732.5	16QAM	21.01	24.17
20MHz	50% RB mid	1732.5	16QAM	19.23	27.09
20MHz	50%,high	1732.5	16QAM	21.12	24.28
20MHz	50%,low	1745	QPSK	19.98	23.17
20MHz	50% RB mid	1745	QPSK	20.47	27.09
20MHz	50%,high	1745	QPSK	20.14	23.34
20MHz	50%,low	1745	16QAM	19.62	22.82
20MHz	50% RB mid	1745	16QAM	19.61	27.11
20MHz	50%,high	1745	16QAM	20.17	23.36

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	824.7	QPSK	22.04	27.05
1.4MHz	1 RB mid	824.7	QPSK	21.92	27.02
1.4MHz	1 RB high	824.7	QPSK	21.97	27.15
1.4MHz	100% RB	824.7	QPSK	21.11	26.71
1.4MHz	1 RB low	824.7	16QAM	21.30	26.76
1.4MHz	1 RB mid	824.7	16QAM	21.28	26.75
1.4MHz	1 RB high	824.7	16QAM	21.29	26.94
1.4MHz	100% RB	824.7	16QAM	20.27	26.94
1.4MHz	1 RB low	836.5	QPSK	22.02	26.90
1.4MHz	1 RB mid	836.5	QPSK	21.88	26.68
1.4MHz	1 RB high	836.5	QPSK	22.00	26.71
1.4MHz	100% RB	836.5	QPSK	21.05	27.35
1.4MHz	1 RB low	836.5	16QAM	21.05	27.04
1.4MHz	1 RB mid	836.5	16QAM	21.01	26.93
1.4MHz	1 RB high	836.5	16QAM	21.10	26.97
1.4MHz	100% RB	836.5	16QAM	20.12	26.47
1.4MHz	1 RB low	848.3	QPSK	22.19	27.27

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

1.4MHz	1 RB mid	848.3	QPSK	22.05	27.07
1.4MHz	1 RB high	848.3	QPSK	22.21	27.21
1.4MHz	100% RB	848.3	QPSK	21.09	26.87
1.4MHz	1 RB low	848.3	16QAM	21.34	26.91
1.4MHz	1 RB mid	848.3	16QAM	21.27	26.70
1.4MHz	1 RB high	848.3	16QAM	21.38	26.75
1.4MHz	100% RB	848.3	16QAM	20.09	26.98
1.4MHz	50%,low	824.7	QPSK	22.37	25.52
1.4MHz	50% RB mid	824.7	QPSK	22.27	27.15
1.4MHz	50%,high	824.7	QPSK	22.32	25.45
1.4MHz	50%,low	824.7	16QAM	22.30	25.46
1.4MHz	50% RB mid	824.7	16QAM	21.38	27.01
1.4MHz	50%,high	824.7	16QAM	22.31	25.44
1.4MHz	50%,low	836.5	QPSK	22.09	25.66
1.4MHz	50% RB mid	836.5	QPSK	22.21	27.38
1.4MHz	50%,high	836.5	QPSK	22.34	25.53
1.4MHz	50%,low	836.5	16QAM	22.30	25.49
1.4MHz	50% RB mid	836.5	16QAM	21.33	27.21
1.4MHz	50%,high	836.5	16QAM	22.29	25.46
1.4MHz	50%,low	848.3	QPSK	22.16	25.72
1.4MHz	50% RB mid	848.3	QPSK	22.39	27.56
1.4MHz	50%,high	848.3	QPSK	22.42	25.59
1.4MHz	50%,low	848.3	16QAM	22.44	25.64
1.4MHz	50% RB mid	848.3	16QAM	21.31	27.27
1.4MHz	50%,high	848.3	16QAM	22.38	25.57
3MHz	1 RB low	825.5	QPSK	21.91	26.61
3MHz	1 RB mid	825.5	QPSK	21.97	26.72
3MHz	1 RB high	825.5	QPSK	21.86	26.87
3MHz	100% RB	825.5	QPSK	21.05	26.91
3MHz	1 RB low	825.5	16QAM	21.00	26.78
3MHz	1 RB mid	825.5	16QAM	21.07	27.00
3MHz	1 RB high	825.5	16QAM	20.92	27.16
3MHz	100% RB	825.5	16QAM	20.07	27.33
3MHz	1 RB low	836.5	QPSK	21.74	27.11
3MHz	1 RB mid	836.5	QPSK	21.85	26.94
3MHz	1 RB high	836.5	QPSK	21.87	26.85
3MHz	100% RB	836.5	QPSK	20.96	26.83
3MHz	1 RB low	836.5	16QAM	21.04	26.66

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

3MHz	1 RB mid	836.5	16QAM	21.18	26.56
3MHz	1 RB high	836.5	16QAM	21.20	26.58
3MHz	100% RB	836.5	16QAM	20.02	27.31
3MHz	1 RB low	847.5	QPSK	21.91	26.81
3MHz	1 RB mid	847.5	QPSK	21.96	26.85
3MHz	1 RB high	847.5	QPSK	21.98	26.83
3MHz	100% RB	847.5	QPSK	21.00	27.30
3MHz	1 RB low	847.5	16QAM	21.17	26.55
3MHz	1 RB mid	847.5	16QAM	21.22	26.46
3MHz	1 RB high	847.5	16QAM	21.16	26.44
3MHz	100% RB	847.5	16QAM	20.19	26.51
3MHz	50%,low	825.5	QPSK	22.15	25.37
3MHz	50% RB mid	825.5	QPSK	21.39	26.98
3MHz	50%,high	825.5	QPSK	22.12	25.36
3MHz	50%,low	825.5	16QAM	22.10	25.32
3MHz	50% RB mid	825.5	16QAM	20.39	26.99
3MHz	50%,high	825.5	16QAM	21.70	24.93
3MHz	50%,low	836.5	QPSK	22.37	25.52
3MHz	50% RB mid	836.5	QPSK	21.31	26.77
3MHz	50%,high	836.5	QPSK	22.27	25.42
3MHz	50%,low	836.5	16QAM	22.24	25.43
3MHz	50% RB mid	836.5	16QAM	20.44	26.94
3MHz	50%,high	836.5	16QAM	22.26	25.42
3MHz	50%,low	847.5	QPSK	21.41	27.40
3MHz	50% RB mid	847.5	QPSK	21.30	26.86
3MHz	50%,high	847.5	QPSK	22.19	25.40
3MHz	50%,low	847.5	16QAM	21.48	24.69
3MHz	50% RB mid	847.5	16QAM	20.48	27.19
3MHz	50%,high	847.5	16QAM	22.25	25.44
5MHz	1 RB low	826.5	QPSK	22.07	26.45
5MHz	1 RB mid	826.5	QPSK	22.11	26.67
5MHz	1 RB high	826.5	QPSK	21.81	26.74
5MHz	100% RB	826.5	QPSK	21.04	27.03
5MHz	1 RB low	826.5	16QAM	21.09	26.39
5MHz	1 RB mid	826.5	16QAM	21.20	26.67
5MHz	1 RB high	826.5	16QAM	20.98	26.80
5MHz	100% RB	826.5	16QAM	20.16	26.68
5MHz	1 RB low	836.5	QPSK	21.77	26.95

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

5MHz	1 RB mid	836.5	QPSK	22.01	26.72
5MHz	1 RB high	836.5	QPSK	22.11	26.72
5MHz	100% RB	836.5	QPSK	21.02	26.94
5MHz	1 RB low	836.5	16QAM	20.85	26.57
5MHz	1 RB mid	836.5	16QAM	21.21	26.57
5MHz	1 RB high	836.5	16QAM	21.21	26.45
5MHz	100% RB	836.5	16QAM	20.13	26.61
5MHz	1 RB low	846.5	QPSK	21.95	26.45
5MHz	1 RB mid	846.5	QPSK	22.09	26.49
5MHz	1 RB high	846.5	QPSK	22.09	26.56
5MHz	100% RB	846.5	QPSK	20.98	27.22
5MHz	1 RB low	846.5	16QAM	21.24	26.41
5MHz	1 RB mid	846.5	16QAM	21.32	26.49
5MHz	1 RB high	846.5	16QAM	21.25	26.43
5MHz	100% RB	846.5	16QAM	20.11	26.87
5MHz	50%,low	826.5	QPSK	22.15	25.33
5MHz	50% RB mid	826.5	QPSK	21.38	27.57
5MHz	50%,high	826.5	QPSK	22.13	25.32
5MHz	50%,low	826.5	16QAM	22.10	25.26
5MHz	50% RB mid	826.5	16QAM	20.54	26.75
5MHz	50%,high	826.5	16QAM	21.74	24.95
5MHz	50%,low	836.5	QPSK	22.04	25.18
5MHz	50% RB mid	836.5	QPSK	21.39	27.47
5MHz	50%,high	836.5	QPSK	21.94	25.09
5MHz	50%,low	836.5	16QAM	22.03	25.17
5MHz	50% RB mid	836.5	16QAM	20.54	26.74
5MHz	50%,high	836.5	16QAM	21.97	25.13
5MHz	50%,low	846.5	QPSK	22.35	25.50
5MHz	50% RB mid	846.5	QPSK	21.34	27.59
5MHz	50%,high	846.5	QPSK	22.32	25.46
5MHz	50%,low	846.5	16QAM	22.30	25.46
5MHz	50% RB mid	846.5	16QAM	20.43	26.64
5MHz	50%,high	846.5	16QAM	22.35	25.52
10MHz	1 RB low	829	QPSK	21.71	26.55
10MHz	1 RB mid	829	QPSK	21.67	26.89
10MHz	1 RB high	829	QPSK	21.44	26.76
10MHz	100% RB	829	QPSK	20.60	26.91
10MHz	1 RB low	829	16QAM	20.68	26.74

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

10MHz	1 RB mid	829	16QAM	20.79	27.35
10MHz	1 RB high	829	16QAM	20.47	27.05
10MHz	100% RB	829	16QAM	19.78	26.88
10MHz	1 RB low	836.5	QPSK	21.44	27.35
10MHz	1 RB mid	836.5	QPSK	21.66	26.83
10MHz	1 RB high	836.5	QPSK	21.75	26.83
10MHz	100% RB	836.5	QPSK	20.73	27.42
10MHz	1 RB low	836.5	16QAM	20.74	26.72
10MHz	1 RB mid	836.5	16QAM	21.05	26.51
10MHz	1 RB high	836.5	16QAM	21.00	26.46
10MHz	100% RB	836.5	16QAM	19.85	27.24
10MHz	1 RB low	844	QPSK	21.89	26.69
10MHz	1 RB mid	844	QPSK	21.69	26.48
10MHz	1 RB high	844	QPSK	21.68	26.74
10MHz	100% RB	844	QPSK	20.64	26.71
10MHz	1 RB low	844	16QAM	21.19	26.40
10MHz	1 RB mid	844	16QAM	21.05	26.31
10MHz	1 RB high	844	16QAM	20.81	26.32
10MHz	100% RB	844	16QAM	19.77	26.79
10MHz	50%,low	829	QPSK	21.63	24.72
10MHz	50% RB mid	829	QPSK	21.11	27.21
10MHz	50%,high	829	QPSK	21.58	24.73
10MHz	50%,low	829	16QAM	21.46	24.62
10MHz	50% RB mid	829	16QAM	20.22	27.21
10MHz	50%,high	829	16QAM	21.59	24.75
10MHz	50%,low	836.5	QPSK	22.15	25.21
10MHz	50% RB mid	836.5	QPSK	21.21	27.04
10MHz	50%,high	836.5	QPSK	21.79	24.93
10MHz	50%,low	836.5	16QAM	21.77	24.89
10MHz	50% RB mid	836.5	16QAM	20.30	27.03
10MHz	50%,high	836.5	16QAM	21.76	24.90
10MHz	50%,low	844	QPSK	21.99	25.10
10MHz	50% RB mid	844	QPSK	21.16	26.97
10MHz	50%,high	844	QPSK	21.66	24.78
10MHz	50%,low	844	16QAM	21.62	24.77
10MHz	50% RB mid	844	16QAM	20.21	26.86
10MHz	50%,high	844	16QAM	21.60	24.73

LTE band 41
Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
5MHz	1 RB low	2498.5	QPSK	20.77	26.10
5MHz	1 RB mid	2498.5	QPSK	20.89	25.99
5MHz	1 RB high	2498.5	QPSK	20.81	26.14
5MHz	100% RB	2498.5	QPSK	19.69	25.93
5MHz	1 RB low	2498.5	16QAM	19.75	26.01
5MHz	1 RB mid	2498.5	16QAM	19.81	25.94
5MHz	1 RB high	2498.5	16QAM	19.77	26.00
5MHz	100% RB	2498.5	16QAM	18.81	25.61
5MHz	1 RB low	2593	QPSK	20.91	25.92
5MHz	1 RB mid	2593	QPSK	21.03	26.01
5MHz	1 RB high	2593	QPSK	20.94	25.99
5MHz	100% RB	2593	QPSK	19.87	25.91
5MHz	1 RB low	2593	16QAM	19.95	25.36
5MHz	1 RB mid	2593	16QAM	20.02	25.24
5MHz	1 RB high	2593	16QAM	19.90	25.44
5MHz	100% RB	2593	16QAM	18.92	25.88
5MHz	1 RB low	2687.5	QPSK	21.02	25.85
5MHz	1 RB mid	2687.5	QPSK	21.09	25.82
5MHz	1 RB high	2687.5	QPSK	20.98	25.86
5MHz	100% RB	2687.5	QPSK	19.98	26.11
5MHz	1 RB low	2687.5	16QAM	20.27	25.83
5MHz	1 RB mid	2687.5	16QAM	20.38	25.81
5MHz	1 RB high	2687.5	16QAM	20.26	25.83
5MHz	100% RB	2687.5	16QAM	19.03	25.80
5MHz	50%,low	2498.5	QPSK	20.27	23.70
5MHz	50% RB mid	2498.5	QPSK	19.35	26.11
5MHz	50%,high	2498.5	QPSK	20.24	23.62
5MHz	50%,low	2498.5	16QAM	20.27	23.63
5MHz	50% RB mid	2498.5	16QAM	18.55	25.41
5MHz	50%,high	2498.5	16QAM	20.30	23.61
5MHz	50%,low	2593	QPSK	20.30	23.66
5MHz	50% RB mid	2593	QPSK	19.34	26.15
5MHz	50%,high	2593	QPSK	20.29	23.64
5MHz	50%,low	2593	16QAM	20.28	23.64
5MHz	50% RB mid	2593	16QAM	18.48	25.33
5MHz	50%,high	2593	16QAM	20.28	23.59

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Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

5MHz	50%,low	2687.5	QPSK	20.71	24.01
5MHz	50% RB mid	2687.5	QPSK	19.81	26.46
5MHz	50%,high	2687.5	QPSK	20.68	23.98
5MHz	50%,low	2687.5	16QAM	20.66	23.96
5MHz	50% RB mid	2687.5	16QAM	18.98	25.68
5MHz	50%,high	2687.5	16QAM	20.65	23.94
10MHz	1 RB low	2501	QPSK	20.82	26.96
10MHz	1 RB mid	2501	QPSK	21.03	26.94
10MHz	1 RB high	2501	QPSK	20.89	27.04
10MHz	100% RB	2501	QPSK	19.77	26.64
10MHz	1 RB low	2501	16QAM	20.03	26.09
10MHz	1 RB mid	2501	16QAM	20.19	26.04
10MHz	1 RB high	2501	16QAM	20.10	26.22
10MHz	100% RB	2501	16QAM	18.85	26.25
10MHz	1 RB low	2593	QPSK	20.93	26.46
10MHz	1 RB mid	2593	QPSK	21.14	26.49
10MHz	1 RB high	2593	QPSK	21.05	26.61
10MHz	100% RB	2593	QPSK	19.87	26.35
10MHz	1 RB low	2593	16QAM	19.78	26.46
10MHz	1 RB mid	2593	16QAM	20.02	26.43
10MHz	1 RB high	2593	16QAM	19.98	26.64
10MHz	100% RB	2593	16QAM	18.93	26.06
10MHz	1 RB low	2685	QPSK	21.17	26.71
10MHz	1 RB mid	2685	QPSK	21.12	26.55
10MHz	1 RB high	2685	QPSK	20.97	26.56
10MHz	100% RB	2685	QPSK	19.97	26.74
10MHz	1 RB low	2685	16QAM	20.36	25.96
10MHz	1 RB mid	2685	16QAM	20.28	25.85
10MHz	1 RB high	2685	16QAM	20.13	25.83
10MHz	100% RB	2685	16QAM	19.11	26.40
10MHz	50%,low	2501	QPSK	20.07	23.32
10MHz	50% RB mid	2501	QPSK	19.28	25.74
10MHz	50%,high	2501	QPSK	20.08	23.33
10MHz	50%,low	2501	16QAM	19.65	22.90
10MHz	50% RB mid	2501	16QAM	18.42	25.68
10MHz	50%,high	2501	16QAM	20.06	23.30
10MHz	50%,low	2593	QPSK	20.11	23.34
10MHz	50% RB mid	2593	QPSK	19.44	25.81

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

10MHz	50%,high	2593	QPSK	20.13	23.35
10MHz	50%,low	2593	16QAM	20.10	23.31
10MHz	50% RB mid	2593	16QAM	18.46	25.79
10MHz	50%,high	2593	16QAM	20.10	23.34
10MHz	50%,low	2685	QPSK	20.70	23.89
10MHz	50% RB mid	2685	QPSK	20.05	26.31
10MHz	50%,high	2685	QPSK	20.61	23.79
10MHz	50%,low	2685	16QAM	20.68	23.86
10MHz	50% RB mid	2685	16QAM	19.02	26.17
10MHz	50%,high	2685	16QAM	20.69	23.87
15MHz	1 RB low	2503.5	QPSK	20.94	27.00
15MHz	1 RB mid	2503.5	QPSK	21.14	27.14
15MHz	1 RB high	2503.5	QPSK	20.99	27.06
15MHz	100% RB	2503.5	QPSK	19.92	26.60
15MHz	1 RB low	2503.5	16QAM	20.14	26.14
15MHz	1 RB mid	2503.5	16QAM	20.24	26.21
15MHz	1 RB high	2503.5	16QAM	20.20	26.21
15MHz	100% RB	2503.5	16QAM	18.99	26.93
15MHz	1 RB low	2593	QPSK	21.12	26.57
15MHz	1 RB mid	2593	QPSK	21.19	26.55
15MHz	1 RB high	2593	QPSK	21.23	26.66
15MHz	100% RB	2593	QPSK	19.99	26.45
15MHz	1 RB low	2593	16QAM	19.99	26.56
15MHz	1 RB mid	2593	16QAM	20.08	26.58
15MHz	1 RB high	2593	16QAM	20.10	26.66
15MHz	100% RB	2593	16QAM	19.05	26.32
15MHz	1 RB low	2682.5	QPSK	21.44	26.71
15MHz	1 RB mid	2682.5	QPSK	21.24	26.54
15MHz	1 RB high	2682.5	QPSK	21.10	26.45
15MHz	100% RB	2682.5	QPSK	20.20	26.94
15MHz	1 RB low	2682.5	16QAM	20.70	26.39
15MHz	1 RB mid	2682.5	16QAM	20.52	26.14
15MHz	1 RB high	2682.5	16QAM	20.37	26.10
15MHz	100% RB	2682.5	16QAM	19.32	26.81
15MHz	50%,low	2503.5	QPSK	20.24	23.51
15MHz	50% RB mid	2503.5	QPSK	19.44	26.31
15MHz	50%,high	2503.5	QPSK	20.27	23.52
15MHz	50%,low	2503.5	16QAM	20.24	23.50

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

15MHz	50% RB mid	2503.5	16QAM	18.49	26.20
15MHz	50%,high	2503.5	16QAM	20.24	23.50
15MHz	50%,low	2593	QPSK	20.28	23.52
15MHz	50% RB mid	2593	QPSK	19.51	26.25
15MHz	50%,high	2593	QPSK	20.30	23.53
15MHz	50%,low	2593	16QAM	20.27	23.52
15MHz	50% RB mid	2593	16QAM	18.53	25.35
15MHz	50%,high	2593	16QAM	20.52	23.67
15MHz	50%,low	2682.5	QPSK	21.13	23.50
15MHz	50% RB mid	2682.5	QPSK	20.24	26.79
15MHz	50%,high	2682.5	QPSK	20.93	24.12
15MHz	50%,low	2682.5	16QAM	20.92	24.10
15MHz	50% RB mid	2682.5	16QAM	19.18	26.56
15MHz	50%,high	2682.5	16QAM	20.91	24.08
20MHz	1 RB low	2506	QPSK	20.97	26.09
20MHz	1 RB mid	2506	QPSK	21.17	26.22
20MHz	1 RB high	2506	QPSK	21.02	26.22
20MHz	100% RB	2506	QPSK	19.87	26.38
20MHz	1 RB low	2506	16QAM	19.96	25.48
20MHz	1 RB mid	2506	16QAM	20.18	25.66
20MHz	1 RB high	2506	16QAM	20.12	25.65
20MHz	100% RB	2506	16QAM	18.99	26.59
20MHz	1 RB low	2593	QPSK	20.90	26.25
20MHz	1 RB mid	2593	QPSK	21.15	26.38
20MHz	1 RB high	2593	QPSK	21.11	26.46
20MHz	100% RB	2593	QPSK	19.93	26.49
20MHz	1 RB low	2593	16QAM	19.93	25.79
20MHz	1 RB mid	2593	16QAM	20.10	25.89
20MHz	1 RB high	2593	16QAM	20.05	25.93
20MHz	100% RB	2593	16QAM	18.99	26.38
20MHz	1 RB low	2680	QPSK	21.43	26.71
20MHz	1 RB mid	2680	QPSK	21.44	26.68
20MHz	1 RB high	2680	QPSK	21.11	26.48
20MHz	100% RB	2680	QPSK	20.21	26.81
20MHz	1 RB low	2680	16QAM	20.73	26.23
20MHz	1 RB mid	2680	16QAM	20.68	26.10
20MHz	1 RB high	2680	16QAM	20.36	25.91
20MHz	100% RB	2680	16QAM	19.32	26.96

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

20MHz	50%,low	2506	QPSK	20.07	23.30
20MHz	50% RB mid	2506	QPSK	19.37	25.91
20MHz	50%,high	2506	QPSK	20.22	23.42
20MHz	50%,low	2506	16QAM	20.07	23.29
20MHz	50% RB mid	2506	16QAM	18.39	26.08
20MHz	50%,high	2506	16QAM	20.08	23.30
20MHz	50%,low	2593	QPSK	20.43	23.61
20MHz	50% RB mid	2593	QPSK	19.54	25.88
20MHz	50%,high	2593	QPSK	20.41	23.60
20MHz	50%,low	2593	16QAM	20.36	23.56
20MHz	50% RB mid	2593	16QAM	18.53	26.08
20MHz	50%,high	2593	16QAM	20.38	23.57
20MHz	50%,low	2680	QPSK	21.02	25.60
20MHz	50% RB mid	2680	QPSK	20.29	26.52
20MHz	50%,high	2680	QPSK	20.95	24.08
20MHz	50%,low	2680	16QAM	20.97	24.10
20MHz	50% RB mid	2680	16QAM	19.26	26.61
20MHz	50%,high	2680	16QAM	20.06	24.42

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	1710.7	QPSK	23.06	28.21
1.4MHz	1 RB mid	1710.7	QPSK	22.99	28.04
1.4MHz	1 RB high	1710.7	QPSK	23.09	28.06
1.4MHz	100% RB	1710.7	QPSK	22.08	27.75
1.4MHz	1 RB low	1710.7	16QAM	22.29	27.85
1.4MHz	1 RB mid	1710.7	16QAM	22.20	27.63
1.4MHz	1 RB high	1710.7	16QAM	22.37	27.71
1.4MHz	100% RB	1710.7	16QAM	21.22	27.97
1.4MHz	1 RB low	1745	QPSK	22.24	27.21
1.4MHz	1 RB mid	1745	QPSK	22.06	27.01
1.4MHz	1 RB high	1745	QPSK	22.19	27.17
1.4MHz	100% RB	1745	QPSK	21.09	27.65
1.4MHz	1 RB low	1745	16QAM	21.20	27.36
1.4MHz	1 RB mid	1745	16QAM	20.99	27.12
1.4MHz	1 RB high	1745	16QAM	21.12	27.28
1.4MHz	100% RB	1745	16QAM	19.83	26.22
1.4MHz	1 RB low	1779.3	QPSK	21.54	27.00

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

1.4MHz	1 RB mid	1779.3	QPSK	21.34	26.76
1.4MHz	1 RB high	1779.3	QPSK	21.40	26.83
1.4MHz	100% RB	1779.3	QPSK	20.43	26.35
1.4MHz	1 RB low	1779.3	16QAM	20.72	26.47
1.4MHz	1 RB mid	1779.3	16QAM	20.60	26.19
1.4MHz	1 RB high	1779.3	16QAM	20.67	26.36
1.4MHz	100% RB	1779.3	16QAM	19.33	26.42
1.4MHz	50%,low	1710.7	QPSK	23.19	26.47
1.4MHz	50% RB mid	1710.7	QPSK	23.08	28.38
1.4MHz	50%,high	1710.7	QPSK	23.20	26.47
1.4MHz	50%,low	1710.7	16QAM	23.20	26.47
1.4MHz	50% RB mid	1710.7	16QAM	22.28	28.27
1.4MHz	50%,high	1710.7	16QAM	23.25	26.48
1.4MHz	50%,low	1745	QPSK	22.50	25.83
1.4MHz	50% RB mid	1745	QPSK	22.39	27.95
1.4MHz	50%,high	1745	QPSK	22.44	25.77
1.4MHz	50%,low	1745	16QAM	22.05	25.39
1.4MHz	50% RB mid	1745	16QAM	21.50	27.62
1.4MHz	50%,high	1745	16QAM	21.87	25.25
1.4MHz	50%,low	1779.3	QPSK	22.11	25.34
1.4MHz	50% RB mid	1779.3	QPSK	21.96	27.62
1.4MHz	50%,high	1779.3	QPSK	22.01	25.24
1.4MHz	50%,low	1779.3	16QAM	21.98	25.20
1.4MHz	50% RB mid	1779.3	16QAM	21.13	27.53
1.4MHz	50%,high	1779.3	16QAM	22.00	25.19
3MHz	1 RB low	1711.5	QPSK	22.90	27.53
3MHz	1 RB mid	1711.5	QPSK	23.06	27.39
3MHz	1 RB high	1711.5	QPSK	22.95	27.37
3MHz	100% RB	1711.5	QPSK	22.13	27.76
3MHz	1 RB low	1711.5	16QAM	21.95	27.65
3MHz	1 RB mid	1711.5	16QAM	22.08	27.52
3MHz	1 RB high	1711.5	16QAM	21.97	27.43
3MHz	100% RB	1711.5	16QAM	21.13	28.11
3MHz	1 RB low	1745	QPSK	22.06	27.40
3MHz	1 RB mid	1745	QPSK	21.96	27.23
3MHz	1 RB high	1745	QPSK	21.85	27.24
3MHz	100% RB	1745	QPSK	20.98	26.61
3MHz	1 RB low	1745	16QAM	21.26	26.90

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

3MHz	1 RB mid	1745	16QAM	21.18	26.81
3MHz	1 RB high	1745	16QAM	21.07	26.82
3MHz	100% RB	1745	16QAM	19.76	26.78
3MHz	1 RB low	1778.5	QPSK	21.44	26.65
3MHz	1 RB mid	1778.5	QPSK	21.34	26.36
3MHz	1 RB high	1778.5	QPSK	21.16	26.30
3MHz	100% RB	1778.5	QPSK	20.44	26.14
3MHz	1 RB low	1778.5	16QAM	20.66	26.24
3MHz	1 RB mid	1778.5	16QAM	20.60	25.98
3MHz	1 RB high	1778.5	16QAM	20.46	25.91
3MHz	100% RB	1778.5	16QAM	19.48	26.07
3MHz	50%,low	1711.5	QPSK	23.50	26.70
3MHz	50% RB mid	1711.5	QPSK	22.22	27.86
3MHz	50%,high	1711.5	QPSK	23.24	26.46
3MHz	50%,low	1711.5	16QAM	23.45	26.65
3MHz	50% RB mid	1711.5	16QAM	21.31	27.81
3MHz	50%,high	1711.5	16QAM	23.44	26.55
3MHz	50%,low	1745	QPSK	22.43	25.74
3MHz	50% RB mid	1745	QPSK	21.37	27.18
3MHz	50%,high	1745	QPSK	22.41	25.75
3MHz	50%,low	1745	16QAM	22.39	25.71
3MHz	50% RB mid	1745	16QAM	20.13	26.72
3MHz	50%,high	1745	16QAM	22.43	25.68
3MHz	50%,low	1778.5	QPSK	22.12	25.39
3MHz	50% RB mid	1778.5	QPSK	21.14	27.07
3MHz	50%,high	1778.5	QPSK	22.04	25.30
3MHz	50%,low	1778.5	16QAM	21.96	25.22
3MHz	50% RB mid	1778.5	16QAM	20.10	26.93
3MHz	50%,high	1778.5	16QAM	22.00	25.28
5MHz	1 RB low	1712.5	QPSK	22.91	27.57
5MHz	1 RB mid	1712.5	QPSK	23.11	27.35
5MHz	1 RB high	1712.5	QPSK	22.95	27.27
5MHz	100% RB	1712.5	QPSK	22.09	27.66
5MHz	1 RB low	1712.5	16QAM	22.04	27.33
5MHz	1 RB mid	1712.5	16QAM	22.21	27.09
5MHz	1 RB high	1712.5	16QAM	21.98	27.06
5MHz	100% RB	1712.5	16QAM	21.18	27.60
5MHz	1 RB low	1745	QPSK	22.16	26.88

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

5MHz	1 RB mid	1745	QPSK	22.05	26.66
5MHz	1 RB high	1745	QPSK	21.77	26.54
5MHz	100% RB	1745	QPSK	20.94	26.84
5MHz	1 RB low	1745	16QAM	21.39	26.80
5MHz	1 RB mid	1745	16QAM	21.29	26.53
5MHz	1 RB high	1745	16QAM	21.01	26.46
5MHz	100% RB	1745	16QAM	19.77	26.66
5MHz	1 RB low	1777.5	QPSK	21.65	26.45
5MHz	1 RB mid	1777.5	QPSK	21.49	26.32
5MHz	1 RB high	1777.5	QPSK	21.19	25.96
5MHz	100% RB	1777.5	QPSK	20.51	26.62
5MHz	1 RB low	1777.5	16QAM	20.76	26.47
5MHz	1 RB mid	1777.5	16QAM	20.64	26.12
5MHz	1 RB high	1777.5	16QAM	20.35	26.01
5MHz	100% RB	1777.5	16QAM	19.53	26.13
5MHz	50%,low	1712.5	QPSK	22.61	25.80
5MHz	50% RB mid	1712.5	QPSK	22.31	27.77
5MHz	50%,high	1712.5	QPSK	22.54	25.74
5MHz	50%,low	1712.5	16QAM	22.52	25.70
5MHz	50% RB mid	1712.5	16QAM	21.34	27.77
5MHz	50%,high	1712.5	16QAM	22.54	25.72
5MHz	50%,low	1745	QPSK	21.77	25.02
5MHz	50% RB mid	1745	QPSK	21.51	28.08
5MHz	50%,high	1745	QPSK	21.69	24.92
5MHz	50%,low	1745	16QAM	21.78	25.04
5MHz	50% RB mid	1745	16QAM	20.28	26.90
5MHz	50%,high	1745	16QAM	21.96	25.24
5MHz	50%,low	1777.5	QPSK	21.68	24.91
5MHz	50% RB mid	1777.5	QPSK	21.28	27.11
5MHz	50%,high	1777.5	QPSK	21.77	24.98
5MHz	50%,low	1777.5	16QAM	21.74	24.93
5MHz	50% RB mid	1777.5	16QAM	20.24	27.18
5MHz	50%,high	1777.5	16QAM	21.78	24.93
10MHz	1 RB low	1715	QPSK	22.73	27.44
10MHz	1 RB mid	1715	QPSK	22.83	27.09
10MHz	1 RB high	1715	QPSK	21.75	26.73
10MHz	100% RB	1715	QPSK	21.59	27.24
10MHz	1 RB low	1715	16QAM	21.81	27.60

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Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

10MHz	1 RB mid	1715	16QAM	21.80	27.17
10MHz	1 RB high	1715	16QAM	20.65	26.88
10MHz	100% RB	1715	16QAM	20.57	27.14
10MHz	1 RB low	1745	QPSK	21.94	27.50
10MHz	1 RB mid	1745	QPSK	21.89	27.19
10MHz	1 RB high	1745	QPSK	21.26	26.93
10MHz	100% RB	1745	QPSK	20.78	27.43
10MHz	1 RB low	1745	16QAM	21.17	26.92
10MHz	1 RB mid	1745	16QAM	21.11	26.69
10MHz	1 RB high	1745	16QAM	20.48	26.44
10MHz	100% RB	1745	16QAM	19.61	26.96
10MHz	1 RB low	1775	QPSK	21.63	26.94
10MHz	1 RB mid	1775	QPSK	21.59	26.83
10MHz	1 RB high	1775	QPSK	21.05	26.31
10MHz	100% RB	1775	QPSK	20.56	26.73
10MHz	1 RB low	1775	16QAM	20.91	26.51
10MHz	1 RB mid	1775	16QAM	20.90	26.33
10MHz	1 RB high	1775	16QAM	20.33	25.90
10MHz	100% RB	1775	16QAM	19.49	26.63
10MHz	50%,low	1715	QPSK	23.62	26.57
10MHz	50% RB mid	1715	QPSK	22.15	27.63
10MHz	50%,high	1715	QPSK	23.45	26.40
10MHz	50%,low	1715	16QAM	23.43	26.43
10MHz	50% RB mid	1715	16QAM	21.13	27.68
10MHz	50%,high	1715	16QAM	23.43	26.42
10MHz	50%,low	1745	QPSK	22.19	25.34
10MHz	50% RB mid	1745	QPSK	21.34	27.66
10MHz	50%,high	1745	QPSK	22.25	25.43
10MHz	50%,low	1745	16QAM	22.25	25.39
10MHz	50% RB mid	1745	16QAM	20.14	27.45
10MHz	50%,high	1745	16QAM	22.23	25.39
10MHz	50%,low	1775	QPSK	21.45	24.56
10MHz	50% RB mid	1775	QPSK	21.16	27.48
10MHz	50%,high	1775	QPSK	21.81	24.91
10MHz	50%,low	1775	16QAM	21.78	24.85
10MHz	50% RB mid	1775	16QAM	20.14	27.40
10MHz	50%,high	1775	16QAM	21.78	24.83
15MHz	1 RB low	1717.5	QPSK	22.89	27.48

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Tel: 0086-23-88069965 FAX:0086-23-88608777

15MHz	1 RB mid	1717.5	QPSK	22.43	26.93
15MHz	1 RB high	1717.5	QPSK	21.47	26.75
15MHz	100% RB	1717.5	QPSK	21.05	27.28
15MHz	1 RB low	1717.5	16QAM	21.89	27.60
15MHz	1 RB mid	1717.5	16QAM	21.38	27.03
15MHz	1 RB high	1717.5	16QAM	20.40	26.98
15MHz	100% RB	1717.5	16QAM	19.98	27.09
15MHz	1 RB low	1745	QPSK	21.88	27.43
15MHz	1 RB mid	1745	QPSK	21.91	27.18
15MHz	1 RB high	1745	QPSK	21.28	26.90
15MHz	100% RB	1745	QPSK	20.83	27.53
15MHz	1 RB low	1745	16QAM	21.22	26.87
15MHz	1 RB mid	1745	16QAM	21.26	26.78
15MHz	1 RB high	1745	16QAM	20.64	26.42
15MHz	100% RB	1745	16QAM	19.67	26.99
15MHz	1 RB low	1772.5	QPSK	21.17	26.55
15MHz	1 RB mid	1772.5	QPSK	21.79	26.94
15MHz	1 RB high	1772.5	QPSK	21.18	26.41
15MHz	100% RB	1772.5	QPSK	20.75	27.20
15MHz	1 RB low	1772.5	16QAM	20.40	26.04
15MHz	1 RB mid	1772.5	16QAM	21.06	26.47
15MHz	1 RB high	1772.5	16QAM	20.47	25.95
15MHz	100% RB	1772.5	16QAM	19.68	27.44
15MHz	50%,low	1717.5	QPSK	21.58	24.71
15MHz	50% RB mid	1717.5	QPSK	21.79	27.74
15MHz	50%,high	1717.5	QPSK	21.54	24.67
15MHz	50%,low	1717.5	16QAM	21.58	24.73
15MHz	50% RB mid	1717.5	16QAM	20.60	27.59
15MHz	50%,high	1717.5	16QAM	21.56	24.70
15MHz	50%,low	1745	QPSK	21.61	24.71
15MHz	50% RB mid	1745	QPSK	21.38	27.89
15MHz	50%,high	1745	QPSK	21.59	24.69
15MHz	50%,low	1745	16QAM	21.56	24.66
15MHz	50% RB mid	1745	16QAM	20.15	27.68
15MHz	50%,high	1745	16QAM	21.58	24.68
15MHz	50%,low	1772.5	QPSK	21.79	24.83
15MHz	50% RB mid	1772.5	QPSK	21.23	27.82
15MHz	50%,high	1772.5	QPSK	21.74	24.79

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

15MHz	50%,low	1772.5	16QAM	21.74	24.77
15MHz	50% RB mid	1772.5	16QAM	20.18	27.66
15MHz	50%,high	1772.5	16QAM	21.74	24.78
20MHz	1 RB low	1720	QPSK	22.73	27.95
20MHz	1 RB mid	1720	QPSK	21.58	27.23
20MHz	1 RB high	1720	QPSK	21.24	27.68
20MHz	100% RB	1720	QPSK	20.28	26.75
20MHz	1 RB low	1720	16QAM	21.98	26.80
20MHz	1 RB mid	1720	16QAM	20.78	25.97
20MHz	1 RB high	1720	16QAM	20.40	25.73
20MHz	100% RB	1720	16QAM	19.03	26.49
20MHz	1 RB low	1745	QPSK	21.61	27.15
20MHz	1 RB mid	1745	QPSK	22.01	27.21
20MHz	1 RB high	1745	QPSK	21.09	26.69
20MHz	100% RB	1745	QPSK	20.76	27.42
20MHz	1 RB low	1745	16QAM	20.86	27.09
20MHz	1 RB mid	1745	16QAM	21.24	27.15
20MHz	1 RB high	1745	16QAM	20.35	26.66
20MHz	100% RB	1745	16QAM	19.56	27.28
20MHz	1 RB low	1770	QPSK	20.90	26.28
20MHz	1 RB mid	1770	QPSK	21.94	27.00
20MHz	1 RB high	1770	QPSK	21.29	26.40
20MHz	100% RB	1770	QPSK	20.72	27.04
20MHz	1 RB low	1770	16QAM	19.99	25.93
20MHz	1 RB mid	1770	16QAM	21.07	26.75
20MHz	1 RB high	1770	16QAM	20.40	26.10
20MHz	100% RB	1770	16QAM	19.72	26.94
20MHz	50%,low	1720	QPSK	22.84	26.00
20MHz	50% RB mid	1720	QPSK	21.04	27.23
20MHz	50%,high	1720	QPSK	22.87	26.02
20MHz	50%,low	1720	16QAM	22.44	25.60
20MHz	50% RB mid	1720	16QAM	19.80	27.24
20MHz	50%,high	1720	16QAM	22.96	26.13
20MHz	50%,low	1745	QPSK	21.28	24.43
20MHz	50% RB mid	1745	QPSK	21.37	27.86
20MHz	50%,high	1745	QPSK	21.28	24.44
20MHz	50%,low	1745	16QAM	21.24	24.39
20MHz	50% RB mid	1745	16QAM	20.17	27.65

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

20MHz	50%,high	1745	16QAM	21.10	24.27
20MHz	50%,low	1770	QPSK	21.11	24.30
20MHz	50% RB mid	1770	QPSK	21.13	27.43
20MHz	50%,high	1770	QPSK	21.03	24.23
20MHz	50%,low	1770	16QAM	21.03	24.21
20MHz	50% RB mid	1770	16QAM	20.12	27.51
20MHz	50%,high	1770	16QAM	20.79	24.00

6.3. ERP and EIRP

Limit Level Construction:

This is the test for the maximum radiated power from the EUT.

According to Part 24.232(c), "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

According to 22.913(a), The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

According to Part 27.50(d), "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

According to Part 27.50(h)(2) "Mobile stations are limited to 2.0 watts EIRP".

According to Part 27.50(c), specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

Conducted RF Power+Antenna Gain(dBi)=EIRP

Conducted RF Power+Antenna Gain(dBd)=ERP

Antenna Gain(dBd)= Antenna Gain(dBi)-2.15

Frequency Band	AntennaGain (dBi)
LTE Band 2	3.00
LTE Band 4	6.00
LTE Band 5	2.00
LTE Band 41	9.00
LTE Band 66	6.00

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

6.3.1 LTE Band 2 result

LTE Band 2

Limits 33dBm(2w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	EIRP(dBm) G _T = 3.00dBi
1.4MHz	1 RB low	1850.7	QPSK	22.61	25.61
1.4MHz	1 RB mid	1850.7	QPSK	22.48	25.48
1.4MHz	1 RB high	1850.7	QPSK	22.58	25.58
1.4MHz	100% RB	1850.7	QPSK	21.02	24.02
1.4MHz	1 RB low	1850.7	16QAM	21.03	24.03
1.4MHz	1 RB mid	1850.7	16QAM	20.96	23.96
1.4MHz	1 RB high	1850.7	16QAM	21.02	24.02
1.4MHz	100% RB	1850.7	16QAM	20.16	23.16
1.4MHz	1 RB low	1880	QPSK	21.73	24.73
1.4MHz	1 RB mid	1880	QPSK	21.70	24.70
1.4MHz	1 RB high	1880	QPSK	21.78	24.78
1.4MHz	100% RB	1880	QPSK	20.61	23.61
1.4MHz	1 RB low	1880	16QAM	21.68	24.68
1.4MHz	1 RB mid	1880	16QAM	21.63	24.63
1.4MHz	1 RB high	1880	16QAM	21.67	24.67
1.4MHz	100% RB	1880	16QAM	19.61	22.61
1.4MHz	1 RB low	1909.3	QPSK	21.72	24.72
1.4MHz	1 RB mid	1909.3	QPSK	21.69	24.69
1.4MHz	1 RB high	1909.3	QPSK	21.93	24.93
1.4MHz	100% RB	1909.3	QPSK	20.59	23.59
1.4MHz	1 RB low	1909.3	16QAM	20.68	23.68
1.4MHz	1 RB mid	1909.3	16QAM	20.67	23.67
1.4MHz	1 RB high	1909.3	16QAM	20.96	23.96
1.4MHz	100% RB	1909.3	16QAM	19.71	22.71
1.4MHz	50%,low	1850.7	QPSK	21.79	24.79
1.4MHz	50% RB mid	1850.7	QPSK	21.88	24.88
1.4MHz	50%,high	1850.7	QPSK	21.88	24.88
1.4MHz	50%,low	1850.7	16QAM	22.00	25.00
1.4MHz	50% RB mid	1850.7	16QAM	20.84	23.84
1.4MHz	50%,high	1850.7	16QAM	22.13	25.13
1.4MHz	50%,low	1880	QPSK	21.45	24.45
1.4MHz	50% RB mid	1880	QPSK	21.71	24.71
1.4MHz	50%,high	1880	QPSK	21.72	24.72

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

1.4MHz	50%,low	1880	16QAM	21.73	24.73
1.4MHz	50% RB mid	1880	16QAM	20.70	23.70
1.4MHz	50%,high	1880	16QAM	21.68	24.68
1.4MHz	50%,low	1909.3	QPSK	21.55	24.55
1.4MHz	50% RB mid	1909.3	QPSK	21.45	24.45
1.4MHz	50%,high	1909.3	QPSK	21.54	24.54
1.4MHz	50%,low	1909.3	16QAM	21.52	24.52
1.4MHz	50% RB mid	1909.3	16QAM	20.32	23.32
1.4MHz	50%,high	1909.3	16QAM	21.49	24.49
3MHz	1 RB low	1851.5	QPSK	21.94	24.94
3MHz	1 RB mid	1851.5	QPSK	22.03	25.03
3MHz	1 RB high	1851.5	QPSK	21.98	24.98
3MHz	100% RB	1851.5	QPSK	20.90	23.90
3MHz	1 RB low	1851.5	16QAM	20.74	23.74
3MHz	1 RB mid	1851.5	16QAM	20.79	23.79
3MHz	1 RB high	1851.5	16QAM	20.68	23.68
3MHz	100% RB	1851.5	16QAM	19.93	22.93
3MHz	1 RB low	1880	QPSK	21.38	24.38
3MHz	1 RB mid	1880	QPSK	21.62	24.62
3MHz	1 RB high	1880	QPSK	21.57	24.57
3MHz	100% RB	1880	QPSK	20.49	23.49
3MHz	1 RB low	1880	16QAM	20.37	23.37
3MHz	1 RB mid	1880	16QAM	20.59	23.59
3MHz	1 RB high	1880	16QAM	20.59	23.59
3MHz	100% RB	1880	16QAM	19.55	22.55
3MHz	1 RB low	1908.5	QPSK	21.06	24.06
3MHz	1 RB mid	1908.5	QPSK	21.39	24.39
3MHz	1 RB high	1908.5	QPSK	21.59	24.59
3MHz	100% RB	1908.5	QPSK	20.28	23.28
3MHz	1 RB low	1908.5	16QAM	20.06	23.06
3MHz	1 RB mid	1908.5	16QAM	20.40	23.40
3MHz	1 RB high	1908.5	16QAM	20.73	23.73
3MHz	100% RB	1908.5	16QAM	19.44	22.44
3MHz	50%,low	1851.5	QPSK	21.98	24.98
3MHz	50% RB mid	1851.5	QPSK	20.72	23.72
3MHz	50%,high	1851.5	QPSK	21.54	24.54
3MHz	50%,low	1851.5	16QAM	22.00	25.00
3MHz	50% RB mid	1851.5	16QAM	19.95	22.95

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

3MHz	50%,high	1851.5	16QAM	21.98	24.98
3MHz	50%,low	1880	QPSK	21.43	24.43
3MHz	50% RB mid	1880	QPSK	20.63	23.63
3MHz	50%,high	1880	QPSK	21.62	24.62
3MHz	50%,low	1880	16QAM	21.63	24.63
3MHz	50% RB mid	1880	16QAM	19.72	22.72
3MHz	50%,high	1880	16QAM	21.60	24.60
3MHz	50%,low	1908.5	QPSK	21.23	24.23
3MHz	50% RB mid	1908.5	QPSK	20.27	23.27
3MHz	50%,high	1908.5	QPSK	21.19	24.19
3MHz	50%,low	1908.5	16QAM	21.17	24.17
3MHz	50% RB mid	1908.5	16QAM	19.36	22.36
3MHz	50%,high	1908.5	16QAM	21.18	24.18
5MHz	1 RB low	1852.5	QPSK	21.97	24.97
5MHz	1 RB mid	1852.5	QPSK	22.11	25.11
5MHz	1 RB high	1852.5	QPSK	21.99	24.99
5MHz	100% RB	1852.5	QPSK	20.82	23.82
5MHz	1 RB low	1852.5	16QAM	20.86	23.86
5MHz	1 RB mid	1852.5	16QAM	20.86	23.86
5MHz	1 RB high	1852.5	16QAM	20.79	23.79
5MHz	100% RB	1852.5	16QAM	19.99	22.99
5MHz	1 RB low	1880	QPSK	21.29	24.29
5MHz	1 RB mid	1880	QPSK	21.63	24.63
5MHz	1 RB high	1880	QPSK	21.64	24.64
5MHz	100% RB	1880	QPSK	20.50	23.50
5MHz	1 RB low	1880	16QAM	20.35	23.35
5MHz	1 RB mid	1880	16QAM	20.72	23.72
5MHz	1 RB high	1880	16QAM	20.63	23.63
5MHz	100% RB	1880	16QAM	19.58	22.58
5MHz	1 RB low	1907.5	QPSK	20.76	23.76
5MHz	1 RB mid	1907.5	QPSK	21.17	24.17
5MHz	1 RB high	1907.5	QPSK	21.53	24.53
5MHz	100% RB	1907.5	QPSK	20.03	23.03
5MHz	1 RB low	1907.5	16QAM	19.57	22.57
5MHz	1 RB mid	1907.5	16QAM	20.09	23.09
5MHz	1 RB high	1907.5	16QAM	20.57	23.57
5MHz	100% RB	1907.5	16QAM	19.19	22.19
5MHz	50%,low	1852.5	QPSK	21.08	24.08

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

5MHz	50% RB mid	1852.5	QPSK	20.77	23.77
5MHz	50%,high	1852.5	QPSK	21.42	24.42
5MHz	50%,low	1852.5	16QAM	21.40	24.40
5MHz	50% RB mid	1852.5	16QAM	19.98	22.98
5MHz	50%,high	1852.5	16QAM	21.40	24.40
5MHz	50%,low	1880	QPSK	21.38	24.38
5MHz	50% RB mid	1880	QPSK	20.67	23.67
5MHz	50%,high	1880	QPSK	21.36	24.36
5MHz	50%,low	1880	16QAM	21.34	24.34
5MHz	50% RB mid	1880	16QAM	19.86	22.86
5MHz	50%,high	1880	16QAM	21.38	24.38
5MHz	50%,low	1907.5	QPSK	21.24	24.24
5MHz	50% RB mid	1907.5	QPSK	20.01	23.01
5MHz	50%,high	1907.5	QPSK	20.98	23.98
5MHz	50%,low	1907.5	16QAM	21.23	24.23
5MHz	50% RB mid	1907.5	16QAM	19.20	22.20
5MHz	50%,high	1907.5	16QAM	21.20	24.20
10MHz	1 RB low	1855	QPSK	21.83	24.83
10MHz	1 RB mid	1855	QPSK	21.76	24.76
10MHz	1 RB high	1855	QPSK	20.87	23.87
10MHz	100% RB	1855	QPSK	20.61	23.61
10MHz	1 RB low	1855	16QAM	20.65	23.65
10MHz	1 RB mid	1855	16QAM	20.79	23.79
10MHz	1 RB high	1855	16QAM	19.91	22.91
10MHz	100% RB	1855	16QAM	19.63	22.63
10MHz	1 RB low	1880	QPSK	20.75	23.75
10MHz	1 RB mid	1880	QPSK	21.48	24.48
10MHz	1 RB high	1880	QPSK	21.61	24.61
10MHz	100% RB	1880	QPSK	20.37	23.37
10MHz	1 RB low	1880	16QAM	19.76	22.76
10MHz	1 RB mid	1880	16QAM	20.51	23.51
10MHz	1 RB high	1880	16QAM	20.65	23.65
10MHz	100% RB	1880	16QAM	19.50	22.50
10MHz	1 RB low	1905	QPSK	20.24	23.24
10MHz	1 RB mid	1905	QPSK	20.56	23.56
10MHz	1 RB high	1905	QPSK	21.25	24.25
10MHz	100% RB	1905	QPSK	19.41	22.41
10MHz	1 RB low	1905	16QAM	19.53	22.53

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

10MHz	1 RB mid	1905	16QAM	19.56	22.56
10MHz	1 RB high	1905	16QAM	20.43	23.43
10MHz	100% RB	1905	16QAM	18.62	21.62
10MHz	50%,low	1855	QPSK	21.96	24.96
10MHz	50% RB mid	1855	QPSK	20.82	23.82
10MHz	50%,high	1855	QPSK	21.93	24.93
10MHz	50%,low	1855	16QAM	21.93	24.93
10MHz	50% RB mid	1855	16QAM	19.86	22.86
10MHz	50%,high	1855	16QAM	22.03	25.03
10MHz	50%,low	1880	QPSK	21.23	24.23
10MHz	50% RB mid	1880	QPSK	20.59	23.59
10MHz	50%,high	1880	QPSK	21.20	24.20
10MHz	50%,low	1880	16QAM	21.18	24.18
10MHz	50% RB mid	1880	16QAM	19.70	22.70
10MHz	50%,high	1880	16QAM	20.93	23.93
10MHz	50%,low	1905	QPSK	19.79	22.79
10MHz	50% RB mid	1905	QPSK	19.57	22.57
10MHz	50%,high	1905	QPSK	20.05	23.05
10MHz	50%,low	1905	16QAM	19.98	22.98
10MHz	50% RB mid	1905	16QAM	18.76	21.76
10MHz	50%,high	1905	16QAM	19.80	22.80
15MHz	1 RB low	1857.5	QPSK	22.01	25.01
15MHz	1 RB mid	1857.5	QPSK	21.44	24.44
15MHz	1 RB high	1857.5	QPSK	20.63	23.63
15MHz	100% RB	1857.5	QPSK	20.37	23.37
15MHz	1 RB low	1857.5	16QAM	20.79	23.79
15MHz	1 RB mid	1857.5	16QAM	20.57	23.57
15MHz	1 RB high	1857.5	16QAM	19.71	22.71
15MHz	100% RB	1857.5	16QAM	19.34	22.34
15MHz	1 RB low	1880	QPSK	20.74	23.74
15MHz	1 RB mid	1880	QPSK	21.55	24.55
15MHz	1 RB high	1880	QPSK	21.84	24.84
15MHz	100% RB	1880	QPSK	20.66	23.66
15MHz	1 RB low	1880	16QAM	19.86	22.86
15MHz	1 RB mid	1880	16QAM	20.76	23.76
15MHz	1 RB high	1880	16QAM	20.90	23.90
15MHz	100% RB	1880	16QAM	19.73	22.73
15MHz	1 RB low	1902.5	QPSK	21.35	24.35

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

15MHz	1 RB mid	1902.5	QPSK	20.26	23.26
15MHz	1 RB high	1902.5	QPSK	21.27	24.27
15MHz	100% RB	1902.5	QPSK	19.57	22.57
15MHz	1 RB low	1902.5	16QAM	20.62	23.62
15MHz	1 RB mid	1902.5	16QAM	19.57	22.57
15MHz	1 RB high	1902.5	16QAM	20.37	23.37
15MHz	100% RB	1902.5	16QAM	18.60	21.60
15MHz	50%,low	1857.5	QPSK	22.02	25.02
15MHz	50% RB mid	1857.5	QPSK	20.66	23.66
15MHz	50%,high	1857.5	QPSK	21.99	24.99
15MHz	50%,low	1857.5	16QAM	21.77	24.77
15MHz	50% RB mid	1857.5	16QAM	19.72	22.72
15MHz	50%,high	1857.5	16QAM	21.93	24.93
15MHz	50%,low	1880	QPSK	21.37	24.37
15MHz	50% RB mid	1880	QPSK	20.71	23.71
15MHz	50%,high	1880	QPSK	21.33	24.33
15MHz	50%,low	1880	16QAM	21.36	24.36
15MHz	50% RB mid	1880	16QAM	19.75	22.75
15MHz	50%,high	1880	16QAM	21.17	24.17
15MHz	50%,low	1902.5	QPSK	20.79	23.79
15MHz	50% RB mid	1902.5	QPSK	19.90	22.90
15MHz	50%,high	1902.5	QPSK	20.70	23.70
15MHz	50%,low	1902.5	16QAM	20.66	23.66
15MHz	50% RB mid	1902.5	16QAM	18.89	21.89
15MHz	50%,high	1902.5	16QAM	20.63	23.63
20MHz	1 RB low	1860	QPSK	21.92	24.92
20MHz	1 RB mid	1860	QPSK	20.83	23.83
20MHz	1 RB high	1860	QPSK	20.57	23.57
20MHz	100% RB	1860	QPSK	19.73	22.73
20MHz	1 RB low	1860	16QAM	20.90	23.90
20MHz	1 RB mid	1860	16QAM	20.10	23.10
20MHz	1 RB high	1860	16QAM	19.43	22.43
20MHz	100% RB	1860	16QAM	18.80	21.80
20MHz	1 RB low	1880	QPSK	20.70	23.70
20MHz	1 RB mid	1880	QPSK	21.60	24.60
20MHz	1 RB high	1880	QPSK	21.97	24.97
20MHz	100% RB	1880	QPSK	20.69	23.69
20MHz	1 RB low	1880	16QAM	19.61	22.61

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

20MHz	1 RB mid	1880	16QAM	20.70	23.70
20MHz	1 RB high	1880	16QAM	20.90	23.90
20MHz	100% RB	1880	16QAM	19.77	22.77
20MHz	1 RB low	1900	QPSK	22.09	25.09
20MHz	1 RB mid	1900	QPSK	20.40	23.40
20MHz	1 RB high	1900	QPSK	21.23	24.23
20MHz	100% RB	1900	QPSK	19.50	22.50
20MHz	1 RB low	1900	16QAM	20.82	23.82
20MHz	1 RB mid	1900	16QAM	19.60	22.60
20MHz	1 RB high	1900	16QAM	20.20	23.20
20MHz	100% RB	1900	16QAM	18.52	21.52
20MHz	50%,low	1860	QPSK	20.79	23.79
20MHz	50% RB mid	1860	QPSK	20.20	23.20
20MHz	50%,high	1860	QPSK	20.79	23.79
20MHz	50%,low	1860	16QAM	20.97	23.97
20MHz	50% RB mid	1860	16QAM	19.22	22.22
20MHz	50%,high	1860	16QAM	20.77	23.77
20MHz	50%,low	1880	QPSK	20.59	23.59
20MHz	50% RB mid	1880	QPSK	20.71	23.71
20MHz	50%,high	1880	QPSK	20.84	23.84
20MHz	50%,low	1880	16QAM	20.82	23.82
20MHz	50% RB mid	1880	16QAM	19.80	22.80
20MHz	50%,high	1880	16QAM	20.86	23.86
20MHz	50%,low	1900	QPSK	21.97	24.97
20MHz	50% RB mid	1900	QPSK	19.83	22.83
20MHz	50%,high	1900	QPSK	21.89	24.89
20MHz	50%,low	1900	16QAM	21.86	24.86
20MHz	50% RB mid	1900	16QAM	18.88	21.88
20MHz	50%,high	1900	16QAM	21.88	24.88

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Tel: 0086-23-88069965 FAX:0086-23-88608777

6.3.2 LTE Band 4 result

LTE Band 4

Limits 30dBm(1w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	EIRP(dBm) G _T = 6.00dBi
1.4MHz	1 RB low	1710.7	QPSK	22.69	28.69
1.4MHz	1 RB mid	1710.7	QPSK	22.62	28.62
1.4MHz	1 RB high	1710.7	QPSK	22.74	28.74
1.4MHz	100% RB	1710.7	QPSK	21.74	27.74
1.4MHz	1 RB low	1710.7	16QAM	21.93	27.93
1.4MHz	1 RB mid	1710.7	16QAM	21.89	27.89
1.4MHz	1 RB high	1710.7	16QAM	22.03	28.03
1.4MHz	100% RB	1710.7	16QAM	20.82	26.82
1.4MHz	1 RB low	1732.5	QPSK	21.06	27.06
1.4MHz	1 RB mid	1732.5	QPSK	20.98	26.98
1.4MHz	1 RB high	1732.5	QPSK	21.09	27.09
1.4MHz	100% RB	1732.5	QPSK	20.06	26.06
1.4MHz	1 RB low	1732.5	16QAM	20.09	26.09
1.4MHz	1 RB mid	1732.5	16QAM	20.02	26.02
1.4MHz	1 RB high	1732.5	16QAM	20.14	26.14
1.4MHz	100% RB	1732.5	16QAM	19.20	25.20
1.4MHz	1 RB low	1754.3	QPSK	20.59	26.59
1.4MHz	1 RB mid	1754.3	QPSK	20.42	26.42
1.4MHz	1 RB high	1754.3	QPSK	20.54	26.54
1.4MHz	100% RB	1754.3	QPSK	19.66	25.66
1.4MHz	1 RB low	1754.3	16QAM	20.01	26.01
1.4MHz	1 RB mid	1754.3	16QAM	19.87	25.87
1.4MHz	1 RB high	1754.3	16QAM	19.95	25.95
1.4MHz	100% RB	1754.3	16QAM	18.62	24.62
1.4MHz	50%,low	1710.7	QPSK	22.05	28.05
1.4MHz	50% RB mid	1710.7	QPSK	22.25	28.25
1.4MHz	50%,high	1710.7	QPSK	22.23	28.23
1.4MHz	50%,low	1710.7	16QAM	22.24	28.24
1.4MHz	50% RB mid	1710.7	16QAM	21.44	27.44
1.4MHz	50%,high	1710.7	16QAM	22.23	28.23
1.4MHz	50%,low	1732.5	QPSK	20.98	26.98
1.4MHz	50% RB mid	1732.5	QPSK	20.87	26.87

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Tel: 0086-23-88069965 FAX:0086-23-88608777

1.4MHz	50%,high	1732.5	QPSK	20.96	26.96
1.4MHz	50%,low	1732.5	16QAM	20.95	26.95
1.4MHz	50% RB mid	1732.5	16QAM	20.03	26.03
1.4MHz	50%,high	1732.5	16QAM	20.92	26.92
1.4MHz	50%,low	1754.3	QPSK	20.79	26.79
1.4MHz	50% RB mid	1754.3	QPSK	20.67	26.67
1.4MHz	50%,high	1754.3	QPSK	20.77	26.77
1.4MHz	50%,low	1754.3	16QAM	20.72	26.72
1.4MHz	50% RB mid	1754.3	16QAM	19.85	25.85
1.4MHz	50%,high	1754.3	16QAM	20.77	26.77
3MHz	1 RB low	1711.5	QPSK	22.54	28.54
3MHz	1 RB mid	1711.5	QPSK	22.68	28.68
3MHz	1 RB high	1711.5	QPSK	22.64	28.64
3MHz	100% RB	1711.5	QPSK	21.72	27.72
3MHz	1 RB low	1711.5	16QAM	21.56	27.56
3MHz	1 RB mid	1711.5	16QAM	21.73	27.73
3MHz	1 RB high	1711.5	16QAM	21.65	27.65
3MHz	100% RB	1711.5	16QAM	20.74	26.74
3MHz	1 RB low	1732.5	QPSK	20.91	26.91
3MHz	1 RB mid	1732.5	QPSK	20.94	26.94
3MHz	1 RB high	1732.5	QPSK	21.02	27.02
3MHz	100% RB	1732.5	QPSK	20.03	26.03
3MHz	1 RB low	1732.5	16QAM	20.20	26.20
3MHz	1 RB mid	1732.5	16QAM	20.24	26.24
3MHz	1 RB high	1732.5	16QAM	20.32	26.32
3MHz	100% RB	1732.5	16QAM	19.12	25.12
3MHz	1 RB low	1753.5	QPSK	20.68	26.68
3MHz	1 RB mid	1753.5	QPSK	20.52	26.52
3MHz	1 RB high	1753.5	QPSK	20.30	26.30
3MHz	100% RB	1753.5	QPSK	19.66	25.66
3MHz	1 RB low	1753.5	16QAM	20.07	26.07
3MHz	1 RB mid	1753.5	16QAM	19.88	25.88
3MHz	1 RB high	1753.5	16QAM	19.67	25.67
3MHz	100% RB	1753.5	16QAM	18.76	24.76
3MHz	50%,low	1711.5	QPSK	22.50	28.50
3MHz	50% RB mid	1711.5	QPSK	21.38	27.38
3MHz	50%,high	1711.5	QPSK	22.56	28.56
3MHz	50%,low	1711.5	16QAM	22.55	28.55

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3MHz	50% RB mid	1711.5	16QAM	20.41	26.41
3MHz	50%,high	1711.5	16QAM	22.55	28.55
3MHz	50%,low	1732.5	QPSK	20.98	26.98
3MHz	50% RB mid	1732.5	QPSK	20.01	26.01
3MHz	50%,high	1732.5	QPSK	20.95	26.95
3MHz	50%,low	1732.5	16QAM	20.93	26.93
3MHz	50% RB mid	1732.5	16QAM	19.12	25.12
3MHz	50%,high	1732.5	16QAM	20.96	26.96
3MHz	50%,low	1753.5	QPSK	20.92	26.92
3MHz	50% RB mid	1753.5	QPSK	19.80	25.80
3MHz	50%,high	1753.5	QPSK	20.61	26.61
3MHz	50%,low	1753.5	16QAM	20.81	26.81
3MHz	50% RB mid	1753.5	16QAM	18.94	24.94
3MHz	50%,high	1753.5	16QAM	20.78	26.78
5MHz	1 RB low	1712.5	QPSK	22.57	28.57
5MHz	1 RB mid	1712.5	QPSK	22.78	28.78
5MHz	1 RB high	1712.5	QPSK	22.51	28.51
5MHz	100% RB	1712.5	QPSK	21.64	27.64
5MHz	1 RB low	1712.5	16QAM	21.65	27.65
5MHz	1 RB mid	1712.5	16QAM	21.86	27.86
5MHz	1 RB high	1712.5	16QAM	21.53	27.53
5MHz	100% RB	1712.5	16QAM	20.80	26.80
5MHz	1 RB low	1732.5	QPSK	20.90	26.90
5MHz	1 RB mid	1732.5	QPSK	21.03	27.03
5MHz	1 RB high	1732.5	QPSK	21.19	27.19
5MHz	100% RB	1732.5	QPSK	20.06	26.06
5MHz	1 RB low	1732.5	16QAM	20.25	26.25
5MHz	1 RB mid	1732.5	16QAM	20.38	26.38
5MHz	1 RB high	1732.5	16QAM	20.46	26.46
5MHz	100% RB	1732.5	16QAM	19.19	25.19
5MHz	1 RB low	1752.5	QPSK	20.96	26.96
5MHz	1 RB mid	1752.5	QPSK	20.77	26.77
5MHz	1 RB high	1752.5	QPSK	20.37	26.37
5MHz	100% RB	1752.5	QPSK	19.77	25.77
5MHz	1 RB low	1752.5	16QAM	20.16	26.16
5MHz	1 RB mid	1752.5	16QAM	19.96	25.96
5MHz	1 RB high	1752.5	16QAM	19.62	25.62
5MHz	100% RB	1752.5	16QAM	18.92	24.92

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Tel: 0086-23-88069965 FAX:0086-23-88608777

5MHz	50%,low	1712.5	QPSK	21.63	27.63
5MHz	50% RB mid	1712.5	QPSK	21.39	27.39
5MHz	50%,high	1712.5	QPSK	21.62	27.62
5MHz	50%,low	1712.5	16QAM	21.60	27.60
5MHz	50% RB mid	1712.5	16QAM	20.62	26.62
5MHz	50%,high	1712.5	16QAM	21.61	27.61
5MHz	50%,low	1732.5	QPSK	20.80	26.80
5MHz	50% RB mid	1732.5	QPSK	20.05	26.05
5MHz	50%,high	1732.5	QPSK	20.76	26.76
5MHz	50%,low	1732.5	16QAM	20.79	26.79
5MHz	50% RB mid	1732.5	16QAM	19.26	25.26
5MHz	50%,high	1732.5	16QAM	20.71	26.71
5MHz	50%,low	1752.5	QPSK	20.53	26.53
5MHz	50% RB mid	1752.5	QPSK	19.94	25.94
5MHz	50%,high	1752.5	QPSK	20.56	26.56
5MHz	50%,low	1752.5	16QAM	20.55	26.55
5MHz	50% RB mid	1752.5	16QAM	19.22	25.22
5MHz	50%,high	1752.5	16QAM	20.57	26.57
10MHz	1 RB low	1715	QPSK	22.39	28.39
10MHz	1 RB mid	1715	QPSK	22.41	28.41
10MHz	1 RB high	1715	QPSK	21.22	27.22
10MHz	100% RB	1715	QPSK	21.20	27.20
10MHz	1 RB low	1715	16QAM	21.41	27.41
10MHz	1 RB mid	1715	16QAM	21.41	27.41
10MHz	1 RB high	1715	16QAM	20.28	26.28
10MHz	100% RB	1715	16QAM	20.31	26.31
10MHz	1 RB low	1732.5	QPSK	20.63	26.63
10MHz	1 RB mid	1732.5	QPSK	20.90	26.90
10MHz	1 RB high	1732.5	QPSK	21.13	27.13
10MHz	100% RB	1732.5	QPSK	19.93	25.93
10MHz	1 RB low	1732.5	16QAM	19.86	25.86
10MHz	1 RB mid	1732.5	16QAM	20.21	26.21
10MHz	1 RB high	1732.5	16QAM	20.38	26.38
10MHz	100% RB	1732.5	16QAM	19.09	25.09
10MHz	1 RB low	1750	QPSK	21.12	27.12
10MHz	1 RB mid	1750	QPSK	20.94	26.94
10MHz	1 RB high	1750	QPSK	20.18	26.18
10MHz	100% RB	1750	QPSK	19.88	25.88

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10MHz	1 RB low	1750	16QAM	20.50	26.50
10MHz	1 RB mid	1750	16QAM	20.30	26.30
10MHz	1 RB high	1750	16QAM	19.53	25.53
10MHz	100% RB	1750	16QAM	18.94	24.94
10MHz	50%,low	1715	QPSK	22.63	28.63
10MHz	50% RB mid	1715	QPSK	21.23	27.23
10MHz	50%,high	1715	QPSK	22.59	28.59
10MHz	50%,low	1715	16QAM	22.56	28.56
10MHz	50% RB mid	1715	16QAM	20.38	26.38
10MHz	50%,high	1715	16QAM	22.61	28.61
10MHz	50%,low	1732.5	QPSK	20.60	26.60
10MHz	50% RB mid	1732.5	QPSK	20.01	26.01
10MHz	50%,high	1732.5	QPSK	20.60	26.60
10MHz	50%,low	1732.5	16QAM	20.59	26.59
10MHz	50% RB mid	1732.5	16QAM	19.13	25.13
10MHz	50%,high	1732.5	16QAM	20.21	26.21
10MHz	50%,low	1750	QPSK	21.06	27.06
10MHz	50% RB mid	1750	QPSK	20.04	26.04
10MHz	50%,high	1750	QPSK	20.86	26.86
10MHz	50%,low	1750	16QAM	20.88	26.88
10MHz	50% RB mid	1750	16QAM	19.14	25.14
10MHz	50%,high	1750	16QAM	20.85	26.85
15MHz	1 RB low	1717.5	QPSK	22.37	28.37
15MHz	1 RB mid	1717.5	QPSK	22.19	28.19
15MHz	1 RB high	1717.5	QPSK	21.33	27.33
15MHz	100% RB	1717.5	QPSK	20.80	26.80
15MHz	1 RB low	1717.5	16QAM	21.61	27.61
15MHz	1 RB mid	1717.5	16QAM	21.39	27.39
15MHz	1 RB high	1717.5	16QAM	20.53	26.53
15MHz	100% RB	1717.5	16QAM	19.80	25.80
15MHz	1 RB low	1732.5	QPSK	21.07	27.07
15MHz	1 RB mid	1732.5	QPSK	21.17	27.17
15MHz	1 RB high	1732.5	QPSK	21.66	27.66
15MHz	100% RB	1732.5	QPSK	20.26	26.26
15MHz	1 RB low	1732.5	16QAM	20.04	26.04
15MHz	1 RB mid	1732.5	16QAM	20.14	26.14
15MHz	1 RB high	1732.5	16QAM	20.58	26.58
15MHz	100% RB	1732.5	16QAM	19.36	25.36

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15MHz	1 RB low	1747.5	QPSK	21.60	27.60
15MHz	1 RB mid	1747.5	QPSK	21.25	27.25
15MHz	1 RB high	1747.5	QPSK	20.40	26.40
15MHz	100% RB	1747.5	QPSK	20.32	26.32
15MHz	1 RB low	1747.5	16QAM	21.00	27.00
15MHz	1 RB mid	1747.5	16QAM	20.76	26.76
15MHz	1 RB high	1747.5	16QAM	19.89	25.89
15MHz	100% RB	1747.5	16QAM	19.39	25.39
15MHz	50%,low	1717.5	QPSK	22.56	28.56
15MHz	50% RB mid	1717.5	QPSK	20.99	26.99
15MHz	50%,high	1717.5	QPSK	22.64	28.64
15MHz	50%,low	1717.5	16QAM	22.62	28.62
15MHz	50% RB mid	1717.5	16QAM	20.00	26.00
15MHz	50%,high	1717.5	16QAM	22.61	28.61
15MHz	50%,low	1732.5	QPSK	20.83	26.83
15MHz	50% RB mid	1732.5	QPSK	20.09	26.09
15MHz	50%,high	1732.5	QPSK	20.93	26.93
15MHz	50%,low	1732.5	16QAM	20.97	26.97
15MHz	50% RB mid	1732.5	16QAM	19.20	25.20
15MHz	50%,high	1732.5	16QAM	20.97	26.97
15MHz	50%,low	1747.5	QPSK	21.50	27.50
15MHz	50% RB mid	1747.5	QPSK	20.37	26.37
15MHz	50%,high	1747.5	QPSK	21.44	27.44
15MHz	50%,low	1747.5	16QAM	21.40	27.40
15MHz	50% RB mid	1747.5	16QAM	19.41	25.41
15MHz	50%,high	1747.5	16QAM	21.45	27.45
20MHz	1 RB low	1720	QPSK	22.38	28.38
20MHz	1 RB mid	1720	QPSK	21.14	27.14
20MHz	1 RB high	1720	QPSK	20.87	26.87
20MHz	100% RB	1720	QPSK	19.98	25.98
20MHz	1 RB low	1720	16QAM	21.58	27.58
20MHz	1 RB mid	1720	16QAM	20.45	26.45
20MHz	1 RB high	1720	16QAM	19.95	25.95
20MHz	100% RB	1720	16QAM	19.04	25.04
20MHz	1 RB low	1732.5	QPSK	20.91	26.91
20MHz	1 RB mid	1732.5	QPSK	21.06	27.06
20MHz	1 RB high	1732.5	QPSK	21.69	27.69
20MHz	100% RB	1732.5	QPSK	20.20	26.20

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Tel: 0086-23-88069965 FAX:0086-23-88608777

20MHz	1 RB low	1732.5	16QAM	20.19	26.19
20MHz	1 RB mid	1732.5	16QAM	20.38	26.38
20MHz	1 RB high	1732.5	16QAM	20.96	26.96
20MHz	100% RB	1732.5	16QAM	19.31	25.31
20MHz	1 RB low	1745	QPSK	21.14	27.14
20MHz	1 RB mid	1745	QPSK	21.59	27.59
20MHz	1 RB high	1745	QPSK	20.49	26.49
20MHz	100% RB	1745	QPSK	20.37	26.37
20MHz	1 RB low	1745	16QAM	20.30	26.30
20MHz	1 RB mid	1745	16QAM	20.77	26.77
20MHz	1 RB high	1745	16QAM	19.64	25.64
20MHz	100% RB	1745	16QAM	19.44	25.44
20MHz	50%,low	1720	QPSK	20.52	26.52
20MHz	50% RB mid	1720	QPSK	20.28	26.28
20MHz	50%,high	1720	QPSK	20.56	26.56
20MHz	50%,low	1720	16QAM	20.52	26.52
20MHz	50% RB mid	1720	16QAM	19.44	25.44
20MHz	50%,high	1720	16QAM	20.51	26.51
20MHz	50%,low	1732.5	QPSK	21.19	27.19
20MHz	50% RB mid	1732.5	QPSK	20.03	26.03
20MHz	50%,high	1732.5	QPSK	21.10	27.10
20MHz	50%,low	1732.5	16QAM	21.01	27.01
20MHz	50% RB mid	1732.5	16QAM	19.23	25.23
20MHz	50%,high	1732.5	16QAM	21.12	27.12
20MHz	50%,low	1745	QPSK	19.98	25.98
20MHz	50% RB mid	1745	QPSK	20.47	26.47
20MHz	50%,high	1745	QPSK	20.14	26.14
20MHz	50%,low	1745	16QAM	19.62	25.62
20MHz	50% RB mid	1745	16QAM	19.61	25.61
20MHz	50%,high	1745	16QAM	20.17	26.17

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6.3.3 LTE Band 5 result

LTE band 5

Limits 38.45dBm(7w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	ERP(dBm) G _T = 2.00dBi/-0.15dBd
1.4MHz	1 RB low	824.7	QPSK	22.04	21.89
1.4MHz	1 RB mid	824.7	QPSK	21.92	21.77
1.4MHz	1 RB high	824.7	QPSK	21.97	21.82
1.4MHz	100% RB	824.7	QPSK	21.11	20.96
1.4MHz	1 RB low	824.7	16QAM	21.30	21.15
1.4MHz	1 RB mid	824.7	16QAM	21.28	21.13
1.4MHz	1 RB high	824.7	16QAM	21.29	21.14
1.4MHz	100% RB	824.7	16QAM	20.27	20.12
1.4MHz	1 RB low	836.5	QPSK	22.02	21.87
1.4MHz	1 RB mid	836.5	QPSK	21.88	21.73
1.4MHz	1 RB high	836.5	QPSK	22.00	21.85
1.4MHz	100% RB	836.5	QPSK	21.05	20.90
1.4MHz	1 RB low	836.5	16QAM	21.05	20.90
1.4MHz	1 RB mid	836.5	16QAM	21.01	20.86
1.4MHz	1 RB high	836.5	16QAM	21.10	20.95
1.4MHz	100% RB	836.5	16QAM	20.12	19.97
1.4MHz	1 RB low	848.3	QPSK	22.19	22.04
1.4MHz	1 RB mid	848.3	QPSK	22.05	21.90
1.4MHz	1 RB high	848.3	QPSK	22.21	22.06
1.4MHz	100% RB	848.3	QPSK	21.09	20.94
1.4MHz	1 RB low	848.3	16QAM	21.34	21.19
1.4MHz	1 RB mid	848.3	16QAM	21.27	21.12
1.4MHz	1 RB high	848.3	16QAM	21.38	21.23
1.4MHz	100% RB	848.3	16QAM	20.09	19.94
1.4MHz	50%,low	824.7	QPSK	22.37	22.22
1.4MHz	50% RB mid	824.7	QPSK	22.27	22.12
1.4MHz	50%,high	824.7	QPSK	22.32	22.17
1.4MHz	50%,low	824.7	16QAM	22.30	22.15
1.4MHz	50% RB mid	824.7	16QAM	21.38	21.23
1.4MHz	50%,high	824.7	16QAM	22.31	22.16
1.4MHz	50%,low	836.5	QPSK	22.09	21.94

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Tel: 0086-23-88069965 FAX:0086-23-88608777

1.4MHz	50% RB mid	836.5	QPSK	22.21	22.06
1.4MHz	50%,high	836.5	QPSK	22.34	22.19
1.4MHz	50%,low	836.5	16QAM	22.30	22.15
1.4MHz	50% RB mid	836.5	16QAM	21.33	21.18
1.4MHz	50%,high	836.5	16QAM	22.29	22.14
1.4MHz	50%,low	848.3	QPSK	22.16	22.01
1.4MHz	50% RB mid	848.3	QPSK	22.39	22.24
1.4MHz	50%,high	848.3	QPSK	22.42	22.27
1.4MHz	50%,low	848.3	16QAM	22.44	22.29
1.4MHz	50% RB mid	848.3	16QAM	21.31	21.16
1.4MHz	50%,high	848.3	16QAM	22.38	22.23
3MHz	1 RB low	825.5	QPSK	21.91	21.76
3MHz	1 RB mid	825.5	QPSK	21.97	21.82
3MHz	1 RB high	825.5	QPSK	21.86	21.71
3MHz	100% RB	825.5	QPSK	21.05	20.90
3MHz	1 RB low	825.5	16QAM	21.00	20.85
3MHz	1 RB mid	825.5	16QAM	21.07	20.92
3MHz	1 RB high	825.5	16QAM	20.92	20.77
3MHz	100% RB	825.5	16QAM	20.07	19.92
3MHz	1 RB low	836.5	QPSK	21.74	21.59
3MHz	1 RB mid	836.5	QPSK	21.85	21.70
3MHz	1 RB high	836.5	QPSK	21.87	21.72
3MHz	100% RB	836.5	QPSK	20.96	20.81
3MHz	1 RB low	836.5	16QAM	21.04	20.89
3MHz	1 RB mid	836.5	16QAM	21.18	21.03
3MHz	1 RB high	836.5	16QAM	21.20	21.05
3MHz	100% RB	836.5	16QAM	20.02	19.87
3MHz	1 RB low	847.5	QPSK	21.91	21.76
3MHz	1 RB mid	847.5	QPSK	21.96	21.81
3MHz	1 RB high	847.5	QPSK	21.98	21.83
3MHz	100% RB	847.5	QPSK	21.00	20.85
3MHz	1 RB low	847.5	16QAM	21.17	21.02
3MHz	1 RB mid	847.5	16QAM	21.22	21.07
3MHz	1 RB high	847.5	16QAM	21.16	21.01
3MHz	100% RB	847.5	16QAM	20.19	20.04
3MHz	50%,low	825.5	QPSK	22.15	22.00
3MHz	50% RB mid	825.5	QPSK	21.39	21.24
3MHz	50%,high	825.5	QPSK	22.12	21.97

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3MHz	50%,low	825.5	16QAM	22.10	21.95
3MHz	50% RB mid	825.5	16QAM	20.39	20.24
3MHz	50%,high	825.5	16QAM	21.70	21.55
3MHz	50%,low	836.5	QPSK	22.37	22.22
3MHz	50% RB mid	836.5	QPSK	21.31	21.16
3MHz	50%,high	836.5	QPSK	22.27	22.12
3MHz	50%,low	836.5	16QAM	22.24	22.09
3MHz	50% RB mid	836.5	16QAM	20.44	20.29
3MHz	50%,high	836.5	16QAM	22.26	22.11
3MHz	50%,low	847.5	QPSK	21.41	21.26
3MHz	50% RB mid	847.5	QPSK	21.30	21.15
3MHz	50%,high	847.5	QPSK	22.19	22.04
3MHz	50%,low	847.5	16QAM	21.48	21.33
3MHz	50% RB mid	847.5	16QAM	20.48	20.33
3MHz	50%,high	847.5	16QAM	22.25	22.10
5MHz	1 RB low	826.5	QPSK	22.07	21.92
5MHz	1 RB mid	826.5	QPSK	22.11	21.96
5MHz	1 RB high	826.5	QPSK	21.81	21.66
5MHz	100% RB	826.5	QPSK	21.04	20.89
5MHz	1 RB low	826.5	16QAM	21.09	20.94
5MHz	1 RB mid	826.5	16QAM	21.20	21.05
5MHz	1 RB high	826.5	16QAM	20.98	20.83
5MHz	100% RB	826.5	16QAM	20.16	20.01
5MHz	1 RB low	836.5	QPSK	21.77	21.62
5MHz	1 RB mid	836.5	QPSK	22.01	21.86
5MHz	1 RB high	836.5	QPSK	22.11	21.96
5MHz	100% RB	836.5	QPSK	21.02	20.87
5MHz	1 RB low	836.5	16QAM	20.85	20.70
5MHz	1 RB mid	836.5	16QAM	21.21	21.06
5MHz	1 RB high	836.5	16QAM	21.21	21.06
5MHz	100% RB	836.5	16QAM	20.13	19.98
5MHz	1 RB low	846.5	QPSK	21.95	21.80
5MHz	1 RB mid	846.5	QPSK	22.09	21.94
5MHz	1 RB high	846.5	QPSK	22.09	21.94
5MHz	100% RB	846.5	QPSK	20.98	20.83
5MHz	1 RB low	846.5	16QAM	21.24	21.09
5MHz	1 RB mid	846.5	16QAM	21.32	21.17
5MHz	1 RB high	846.5	16QAM	21.25	21.10

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5MHz	100% RB	846.5	16QAM	20.11	19.96
5MHz	50%,low	826.5	QPSK	22.15	22.00
5MHz	50% RB mid	826.5	QPSK	21.38	21.23
5MHz	50%,high	826.5	QPSK	22.13	21.98
5MHz	50%,low	826.5	16QAM	22.10	21.95
5MHz	50% RB mid	826.5	16QAM	20.54	20.39
5MHz	50%,high	826.5	16QAM	21.74	21.59
5MHz	50%,low	836.5	QPSK	22.04	21.89
5MHz	50% RB mid	836.5	QPSK	21.39	21.24
5MHz	50%,high	836.5	QPSK	21.94	21.79
5MHz	50%,low	836.5	16QAM	22.03	21.88
5MHz	50% RB mid	836.5	16QAM	20.54	20.39
5MHz	50%,high	836.5	16QAM	21.97	21.82
5MHz	50%,low	846.5	QPSK	22.35	22.20
5MHz	50% RB mid	846.5	QPSK	21.34	21.19
5MHz	50%,high	846.5	QPSK	22.32	22.17
5MHz	50%,low	846.5	16QAM	22.30	22.15
5MHz	50% RB mid	846.5	16QAM	20.43	20.28
5MHz	50%,high	846.5	16QAM	22.35	22.20
10MHz	1 RB low	829	QPSK	21.71	21.56
10MHz	1 RB mid	829	QPSK	21.67	21.52
10MHz	1 RB high	829	QPSK	21.44	21.29
10MHz	100% RB	829	QPSK	20.60	20.45
10MHz	1 RB low	829	16QAM	20.68	20.53
10MHz	1 RB mid	829	16QAM	20.79	20.64
10MHz	1 RB high	829	16QAM	20.47	20.32
10MHz	100% RB	829	16QAM	19.78	19.63
10MHz	1 RB low	836.5	QPSK	21.44	21.29
10MHz	1 RB mid	836.5	QPSK	21.66	21.51
10MHz	1 RB high	836.5	QPSK	21.75	21.60
10MHz	100% RB	836.5	QPSK	20.73	20.58
10MHz	1 RB low	836.5	16QAM	20.74	20.59
10MHz	1 RB mid	836.5	16QAM	21.05	20.90
10MHz	1 RB high	836.5	16QAM	21.00	20.85
10MHz	100% RB	836.5	16QAM	19.85	19.70
10MHz	1 RB low	844	QPSK	21.89	21.74
10MHz	1 RB mid	844	QPSK	21.69	21.54
10MHz	1 RB high	844	QPSK	21.68	21.53

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10MHz	100% RB	844	QPSK	20.64	20.49
10MHz	1 RB low	844	16QAM	21.19	21.04
10MHz	1 RB mid	844	16QAM	21.05	20.90
10MHz	1 RB high	844	16QAM	20.81	20.66
10MHz	100% RB	844	16QAM	19.77	19.62
10MHz	50%,low	829	QPSK	21.63	21.48
10MHz	50% RB mid	829	QPSK	21.11	20.96
10MHz	50%,high	829	QPSK	21.58	21.43
10MHz	50%,low	829	16QAM	21.46	21.31
10MHz	50% RB mid	829	16QAM	20.22	20.07
10MHz	50%,high	829	16QAM	21.59	21.44
10MHz	50%,low	836.5	QPSK	22.15	22.00
10MHz	50% RB mid	836.5	QPSK	21.21	21.06
10MHz	50%,high	836.5	QPSK	21.79	21.64
10MHz	50%,low	836.5	16QAM	21.77	21.62
10MHz	50% RB mid	836.5	16QAM	20.30	20.15
10MHz	50%,high	836.5	16QAM	21.76	21.61
10MHz	50%,low	844	QPSK	21.99	21.84
10MHz	50% RB mid	844	QPSK	21.16	21.01
10MHz	50%,high	844	QPSK	21.66	21.51
10MHz	50%,low	844	16QAM	21.62	21.47
10MHz	50% RB mid	844	16QAM	20.21	20.06
10MHz	50%,high	844	16QAM	21.60	21.45

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6.3.4 LTE Band 41 result

LTE Band 41

Limits 33dBm(2w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	EIRP(dBm) G _T = 9.00dBi
5MHz	1 RB low	2498.5	QPSK	20.77	29.77
5MHz	1 RB mid	2498.5	QPSK	20.89	29.89
5MHz	1 RB high	2498.5	QPSK	20.81	29.81
5MHz	100% RB	2498.5	QPSK	19.69	28.69
5MHz	1 RB low	2498.5	16QAM	19.75	28.75
5MHz	1 RB mid	2498.5	16QAM	19.81	28.81
5MHz	1 RB high	2498.5	16QAM	19.77	28.77
5MHz	100% RB	2498.5	16QAM	18.81	27.81
5MHz	1 RB low	2593	QPSK	20.91	29.91
5MHz	1 RB mid	2593	QPSK	21.03	30.03
5MHz	1 RB high	2593	QPSK	20.94	29.94
5MHz	100% RB	2593	QPSK	19.87	28.87
5MHz	1 RB low	2593	16QAM	19.95	28.95
5MHz	1 RB mid	2593	16QAM	20.02	29.02
5MHz	1 RB high	2593	16QAM	19.90	28.9
5MHz	100% RB	2593	16QAM	18.92	27.92
5MHz	1 RB low	2687.5	QPSK	21.02	30.02
5MHz	1 RB mid	2687.5	QPSK	21.09	30.09
5MHz	1 RB high	2687.5	QPSK	20.98	29.98
5MHz	100% RB	2687.5	QPSK	19.98	28.98
5MHz	1 RB low	2687.5	16QAM	20.27	29.27
5MHz	1 RB mid	2687.5	16QAM	20.38	29.38
5MHz	1 RB high	2687.5	16QAM	20.26	29.26
5MHz	100% RB	2687.5	16QAM	19.03	28.03
5MHz	50%,low	2498.5	QPSK	20.27	29.27
5MHz	50% RB mid	2498.5	QPSK	19.35	28.35
5MHz	50%,high	2498.5	QPSK	20.24	29.24
5MHz	50%,low	2498.5	16QAM	20.27	29.27
5MHz	50% RB mid	2498.5	16QAM	18.55	27.55
5MHz	50%,high	2498.5	16QAM	20.30	29.3
5MHz	50%,low	2593	QPSK	20.30	29.3
5MHz	50% RB mid	2593	QPSK	19.34	28.34
5MHz	50%,high	2593	QPSK	20.29	29.29

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5MHz	50%,low	2593	16QAM	20.28	29.28
5MHz	50% RB mid	2593	16QAM	18.48	27.48
5MHz	50%,high	2593	16QAM	20.28	29.28
5MHz	50%,low	2687.5	QPSK	20.71	29.71
5MHz	50% RB mid	2687.5	QPSK	19.81	28.81
5MHz	50%,high	2687.5	QPSK	20.68	29.68
5MHz	50%,low	2687.5	16QAM	20.66	29.66
5MHz	50% RB mid	2687.5	16QAM	18.98	27.98
5MHz	50%,high	2687.5	16QAM	20.65	29.65
10MHz	1 RB low	2501	QPSK	20.82	29.82
10MHz	1 RB mid	2501	QPSK	21.03	30.03
10MHz	1 RB high	2501	QPSK	20.89	29.89
10MHz	100% RB	2501	QPSK	19.77	28.77
10MHz	1 RB low	2501	16QAM	20.03	29.03
10MHz	1 RB mid	2501	16QAM	20.19	29.19
10MHz	1 RB high	2501	16QAM	20.10	29.1
10MHz	100% RB	2501	16QAM	18.85	27.85
10MHz	1 RB low	2593	QPSK	20.93	29.93
10MHz	1 RB mid	2593	QPSK	21.14	30.14
10MHz	1 RB high	2593	QPSK	21.05	30.05
10MHz	100% RB	2593	QPSK	19.87	28.87
10MHz	1 RB low	2593	16QAM	19.78	28.78
10MHz	1 RB mid	2593	16QAM	20.02	29.02
10MHz	1 RB high	2593	16QAM	19.98	28.98
10MHz	100% RB	2593	16QAM	18.93	27.93
10MHz	1 RB low	2685	QPSK	21.17	30.17
10MHz	1 RB mid	2685	QPSK	21.12	30.12
10MHz	1 RB high	2685	QPSK	20.97	29.97
10MHz	100% RB	2685	QPSK	19.97	28.97
10MHz	1 RB low	2685	16QAM	20.36	29.36
10MHz	1 RB mid	2685	16QAM	20.28	29.28
10MHz	1 RB high	2685	16QAM	20.13	29.13
10MHz	100% RB	2685	16QAM	19.11	28.11
10MHz	50%,low	2501	QPSK	20.07	29.07
10MHz	50% RB mid	2501	QPSK	19.28	28.28
10MHz	50%,high	2501	QPSK	20.08	29.08
10MHz	50%,low	2501	16QAM	19.65	28.65
10MHz	50% RB mid	2501	16QAM	18.42	27.42

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Tel: 0086-23-88069965 FAX:0086-23-88608777

10MHz	50%,high	2501	16QAM	20.06	29.06
10MHz	50%,low	2593	QPSK	20.11	29.11
10MHz	50% RB mid	2593	QPSK	19.44	28.44
10MHz	50%,high	2593	QPSK	20.13	29.13
10MHz	50%,low	2593	16QAM	20.10	29.1
10MHz	50% RB mid	2593	16QAM	18.46	27.46
10MHz	50%,high	2593	16QAM	20.10	29.1
10MHz	50%,low	2685	QPSK	20.70	29.7
10MHz	50% RB mid	2685	QPSK	20.05	29.05
10MHz	50%,high	2685	QPSK	20.61	29.61
10MHz	50%,low	2685	16QAM	20.68	29.68
10MHz	50% RB mid	2685	16QAM	19.02	28.02
10MHz	50%,high	2685	16QAM	20.69	29.69
15MHz	1 RB low	2503.5	QPSK	20.94	29.94
15MHz	1 RB mid	2503.5	QPSK	21.14	30.14
15MHz	1 RB high	2503.5	QPSK	20.99	29.99
15MHz	100% RB	2503.5	QPSK	19.92	28.92
15MHz	1 RB low	2503.5	16QAM	20.14	29.14
15MHz	1 RB mid	2503.5	16QAM	20.24	29.24
15MHz	1 RB high	2503.5	16QAM	20.20	29.2
15MHz	100% RB	2503.5	16QAM	18.99	27.99
15MHz	1 RB low	2593	QPSK	21.12	30.12
15MHz	1 RB mid	2593	QPSK	21.19	30.19
15MHz	1 RB high	2593	QPSK	21.23	30.23
15MHz	100% RB	2593	QPSK	19.99	28.99
15MHz	1 RB low	2593	16QAM	19.99	28.99
15MHz	1 RB mid	2593	16QAM	20.08	29.08
15MHz	1 RB high	2593	16QAM	20.10	29.1
15MHz	100% RB	2593	16QAM	19.05	28.05
15MHz	1 RB low	2682.5	QPSK	21.44	30.44
15MHz	1 RB mid	2682.5	QPSK	21.24	30.24
15MHz	1 RB high	2682.5	QPSK	21.10	30.1
15MHz	100% RB	2682.5	QPSK	20.20	29.2
15MHz	1 RB low	2682.5	16QAM	20.70	29.7
15MHz	1 RB mid	2682.5	16QAM	20.52	29.52
15MHz	1 RB high	2682.5	16QAM	20.37	29.37
15MHz	100% RB	2682.5	16QAM	19.32	28.32
15MHz	50%,low	2503.5	QPSK	20.24	29.24

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Tel: 0086-23-88069965 FAX:0086-23-88608777

15MHz	50% RB mid	2503.5	QPSK	19.44	28.44
15MHz	50%,high	2503.5	QPSK	20.27	29.27
15MHz	50%,low	2503.5	16QAM	20.24	29.24
15MHz	50% RB mid	2503.5	16QAM	18.49	27.49
15MHz	50%,high	2503.5	16QAM	20.24	29.24
15MHz	50%,low	2593	QPSK	20.28	29.28
15MHz	50% RB mid	2593	QPSK	19.51	28.51
15MHz	50%,high	2593	QPSK	20.30	29.3
15MHz	50%,low	2593	16QAM	20.27	29.27
15MHz	50% RB mid	2593	16QAM	18.53	27.53
15MHz	50%,high	2593	16QAM	20.52	29.52
15MHz	50%,low	2682.5	QPSK	21.13	30.13
15MHz	50% RB mid	2682.5	QPSK	20.24	29.24
15MHz	50%,high	2682.5	QPSK	20.93	29.93
15MHz	50%,low	2682.5	16QAM	20.92	29.92
15MHz	50% RB mid	2682.5	16QAM	19.18	28.18
15MHz	50%,high	2682.5	16QAM	20.91	29.91
20MHz	1 RB low	2506	QPSK	20.97	29.97
20MHz	1 RB mid	2506	QPSK	21.17	30.17
20MHz	1 RB high	2506	QPSK	21.02	30.02
20MHz	100% RB	2506	QPSK	19.87	28.87
20MHz	1 RB low	2506	16QAM	19.96	28.96
20MHz	1 RB mid	2506	16QAM	20.18	29.18
20MHz	1 RB high	2506	16QAM	20.12	29.12
20MHz	100% RB	2506	16QAM	18.99	27.99
20MHz	1 RB low	2593	QPSK	20.90	29.9
20MHz	1 RB mid	2593	QPSK	21.15	30.15
20MHz	1 RB high	2593	QPSK	21.11	30.11
20MHz	100% RB	2593	QPSK	19.93	28.93
20MHz	1 RB low	2593	16QAM	19.93	28.93
20MHz	1 RB mid	2593	16QAM	20.10	29.1
20MHz	1 RB high	2593	16QAM	20.05	29.05
20MHz	100% RB	2593	16QAM	18.99	27.99
20MHz	1 RB low	2680	QPSK	21.43	30.43
20MHz	1 RB mid	2680	QPSK	21.44	30.44
20MHz	1 RB high	2680	QPSK	21.11	30.11
20MHz	100% RB	2680	QPSK	20.21	29.21
20MHz	1 RB low	2680	16QAM	20.73	29.73

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Tel: 0086-23-88069965 FAX:0086-23-88608777

20MHz	1 RB mid	2680	16QAM	20.68	29.68
20MHz	1 RB high	2680	16QAM	20.36	29.36
20MHz	100% RB	2680	16QAM	19.32	28.32
20MHz	50%,low	2506	QPSK	20.07	29.07
20MHz	50% RB mid	2506	QPSK	19.37	28.37
20MHz	50%,high	2506	QPSK	20.22	29.22
20MHz	50%,low	2506	16QAM	20.07	29.07
20MHz	50% RB mid	2506	16QAM	18.39	27.39
20MHz	50%,high	2506	16QAM	20.08	29.08
20MHz	50%,low	2593	QPSK	20.43	29.43
20MHz	50% RB mid	2593	QPSK	19.54	28.54
20MHz	50%,high	2593	QPSK	20.41	29.41
20MHz	50%,low	2593	16QAM	20.36	29.36
20MHz	50% RB mid	2593	16QAM	18.53	27.53
20MHz	50%,high	2593	16QAM	20.38	29.38
20MHz	50%,low	2680	QPSK	21.02	30.02
20MHz	50% RB mid	2680	QPSK	20.29	29.29
20MHz	50%,high	2680	QPSK	20.95	29.95
20MHz	50%,low	2680	16QAM	20.97	29.97
20MHz	50% RB mid	2680	16QAM	19.26	28.26
20MHz	50%,high	2680	16QAM	20.06	29.06

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 Tel: 0086-23-88069965 FAX:0086-23-88608777

6.3.5 LTE Band 66 result

LTE Band 66

Limits 30dBm(1w)

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	EIRP(dBm) GT= 6.0dBi
1.4MHz	1 RB low	1710.7	QPSK	23.06	29.06
1.4MHz	1 RB mid	1710.7	QPSK	22.99	28.99
1.4MHz	1 RB high	1710.7	QPSK	23.09	29.09
1.4MHz	100% RB	1710.7	QPSK	22.08	28.08
1.4MHz	1 RB low	1710.7	16QAM	22.29	28.29
1.4MHz	1 RB mid	1710.7	16QAM	22.20	28.20
1.4MHz	1 RB high	1710.7	16QAM	22.37	28.37
1.4MHz	100% RB	1710.7	16QAM	21.22	27.22
1.4MHz	1 RB low	1745	QPSK	22.24	28.24
1.4MHz	1 RB mid	1745	QPSK	22.06	28.06
1.4MHz	1 RB high	1745	QPSK	22.19	28.19
1.4MHz	100% RB	1745	QPSK	21.09	27.09
1.4MHz	1 RB low	1745	16QAM	21.20	27.20
1.4MHz	1 RB mid	1745	16QAM	20.99	26.99
1.4MHz	1 RB high	1745	16QAM	21.12	27.12
1.4MHz	100% RB	1745	16QAM	19.83	25.83
1.4MHz	1 RB low	1779.3	QPSK	21.54	27.54
1.4MHz	1 RB mid	1779.3	QPSK	21.34	27.34
1.4MHz	1 RB high	1779.3	QPSK	21.40	27.40
1.4MHz	100% RB	1779.3	QPSK	20.43	26.43
1.4MHz	1 RB low	1779.3	16QAM	20.72	26.72
1.4MHz	1 RB mid	1779.3	16QAM	20.60	26.60
1.4MHz	1 RB high	1779.3	16QAM	20.67	26.67
1.4MHz	100% RB	1779.3	16QAM	19.33	25.33
1.4MHz	50%,low	1710.7	QPSK	23.19	29.19
1.4MHz	50% RB mid	1710.7	QPSK	23.08	29.08
1.4MHz	50%,high	1710.7	QPSK	23.20	29.20
1.4MHz	50%,low	1710.7	16QAM	23.20	29.20
1.4MHz	50% RB mid	1710.7	16QAM	22.28	28.28
1.4MHz	50%,high	1710.7	16QAM	23.25	29.25
1.4MHz	50%,low	1745	QPSK	22.50	28.50
1.4MHz	50% RB mid	1745	QPSK	22.39	28.39
1.4MHz	50%,high	1745	QPSK	22.44	28.44

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1.4MHz	50%,low	1745	16QAM	22.05	28.05
1.4MHz	50% RB mid	1745	16QAM	21.50	27.50
1.4MHz	50%,high	1745	16QAM	21.87	27.87
1.4MHz	50%,low	1779.3	QPSK	22.11	28.11
1.4MHz	50% RB mid	1779.3	QPSK	21.96	27.96
1.4MHz	50%,high	1779.3	QPSK	22.01	28.01
1.4MHz	50%,low	1779.3	16QAM	21.98	27.98
1.4MHz	50% RB mid	1779.3	16QAM	21.13	27.13
1.4MHz	50%,high	1779.3	16QAM	22.00	28.00
3MHz	1 RB low	1711.5	QPSK	22.90	28.90
3MHz	1 RB mid	1711.5	QPSK	23.06	29.06
3MHz	1 RB high	1711.5	QPSK	22.95	28.95
3MHz	100% RB	1711.5	QPSK	22.13	28.13
3MHz	1 RB low	1711.5	16QAM	21.95	27.95
3MHz	1 RB mid	1711.5	16QAM	22.08	28.08
3MHz	1 RB high	1711.5	16QAM	21.97	27.97
3MHz	100% RB	1711.5	16QAM	21.13	27.13
3MHz	1 RB low	1745	QPSK	22.06	28.06
3MHz	1 RB mid	1745	QPSK	21.96	27.96
3MHz	1 RB high	1745	QPSK	21.85	27.85
3MHz	100% RB	1745	QPSK	20.98	26.98
3MHz	1 RB low	1745	16QAM	21.26	27.26
3MHz	1 RB mid	1745	16QAM	21.18	27.18
3MHz	1 RB high	1745	16QAM	21.07	27.07
3MHz	100% RB	1745	16QAM	19.76	25.76
3MHz	1 RB low	1778.5	QPSK	21.44	27.44
3MHz	1 RB mid	1778.5	QPSK	21.34	27.34
3MHz	1 RB high	1778.5	QPSK	21.16	27.16
3MHz	100% RB	1778.5	QPSK	20.44	26.44
3MHz	1 RB low	1778.5	16QAM	20.66	26.66
3MHz	1 RB mid	1778.5	16QAM	20.60	26.60
3MHz	1 RB high	1778.5	16QAM	20.46	26.46
3MHz	100% RB	1778.5	16QAM	19.48	25.48
3MHz	50%,low	1711.5	QPSK	23.50	29.50
3MHz	50% RB mid	1711.5	QPSK	22.22	28.22
3MHz	50%,high	1711.5	QPSK	23.24	29.24
3MHz	50%,low	1711.5	16QAM	23.45	29.45
3MHz	50% RB mid	1711.5	16QAM	21.31	27.31

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3MHz	50%,high	1711.5	16QAM	23.44	29.44
3MHz	50%,low	1745	QPSK	22.43	28.43
3MHz	50% RB mid	1745	QPSK	21.37	27.37
3MHz	50%,high	1745	QPSK	22.41	28.41
3MHz	50%,low	1745	16QAM	22.39	28.39
3MHz	50% RB mid	1745	16QAM	20.13	26.13
3MHz	50%,high	1745	16QAM	22.43	28.43
3MHz	50%,low	1778.5	QPSK	22.12	28.12
3MHz	50% RB mid	1778.5	QPSK	21.14	27.14
3MHz	50%,high	1778.5	QPSK	22.04	28.04
3MHz	50%,low	1778.5	16QAM	21.96	27.96
3MHz	50% RB mid	1778.5	16QAM	20.10	26.10
3MHz	50%,high	1778.5	16QAM	22.00	28.00
5MHz	1 RB low	1712.5	QPSK	22.91	28.91
5MHz	1 RB mid	1712.5	QPSK	23.11	29.11
5MHz	1 RB high	1712.5	QPSK	22.95	28.95
5MHz	100% RB	1712.5	QPSK	22.09	28.09
5MHz	1 RB low	1712.5	16QAM	22.04	28.04
5MHz	1 RB mid	1712.5	16QAM	22.21	28.21
5MHz	1 RB high	1712.5	16QAM	21.98	27.98
5MHz	100% RB	1712.5	16QAM	21.18	27.18
5MHz	1 RB low	1745	QPSK	22.16	28.16
5MHz	1 RB mid	1745	QPSK	22.05	28.05
5MHz	1 RB high	1745	QPSK	21.77	27.77
5MHz	100% RB	1745	QPSK	20.94	26.94
5MHz	1 RB low	1745	16QAM	21.39	27.39
5MHz	1 RB mid	1745	16QAM	21.29	27.29
5MHz	1 RB high	1745	16QAM	21.01	27.01
5MHz	100% RB	1745	16QAM	19.77	25.77
5MHz	1 RB low	1777.5	QPSK	21.65	27.65
5MHz	1 RB mid	1777.5	QPSK	21.49	27.49
5MHz	1 RB high	1777.5	QPSK	21.19	27.19
5MHz	100% RB	1777.5	QPSK	20.51	26.51
5MHz	1 RB low	1777.5	16QAM	20.76	26.76
5MHz	1 RB mid	1777.5	16QAM	20.64	26.64
5MHz	1 RB high	1777.5	16QAM	20.35	26.35
5MHz	100% RB	1777.5	16QAM	19.53	25.53
5MHz	50%,low	1712.5	QPSK	22.61	28.61

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5MHz	50% RB mid	1712.5	QPSK	22.31	28.31
5MHz	50%,high	1712.5	QPSK	22.54	28.54
5MHz	50%,low	1712.5	16QAM	22.52	28.52
5MHz	50% RB mid	1712.5	16QAM	21.34	27.34
5MHz	50%,high	1712.5	16QAM	22.54	28.54
5MHz	50%,low	1745	QPSK	21.77	27.77
5MHz	50% RB mid	1745	QPSK	21.51	27.51
5MHz	50%,high	1745	QPSK	21.69	27.69
5MHz	50%,low	1745	16QAM	21.78	27.78
5MHz	50% RB mid	1745	16QAM	20.28	26.28
5MHz	50%,high	1745	16QAM	21.96	27.96
5MHz	50%,low	1777.5	QPSK	21.68	27.68
5MHz	50% RB mid	1777.5	QPSK	21.28	27.28
5MHz	50%,high	1777.5	QPSK	21.77	27.77
5MHz	50%,low	1777.5	16QAM	21.74	27.74
5MHz	50% RB mid	1777.5	16QAM	20.24	26.24
5MHz	50%,high	1777.5	16QAM	21.78	27.78
10MHz	1 RB low	1715	QPSK	22.73	28.73
10MHz	1 RB mid	1715	QPSK	22.83	28.83
10MHz	1 RB high	1715	QPSK	21.75	27.75
10MHz	100% RB	1715	QPSK	21.59	27.59
10MHz	1 RB low	1715	16QAM	21.81	27.81
10MHz	1 RB mid	1715	16QAM	21.80	27.80
10MHz	1 RB high	1715	16QAM	20.65	26.65
10MHz	100% RB	1715	16QAM	20.57	26.57
10MHz	1 RB low	1745	QPSK	21.94	27.94
10MHz	1 RB mid	1745	QPSK	21.89	27.89
10MHz	1 RB high	1745	QPSK	21.26	27.26
10MHz	100% RB	1745	QPSK	20.78	26.78
10MHz	1 RB low	1745	16QAM	21.17	27.17
10MHz	1 RB mid	1745	16QAM	21.11	27.11
10MHz	1 RB high	1745	16QAM	20.48	26.48
10MHz	100% RB	1745	16QAM	19.61	25.61
10MHz	1 RB low	1775	QPSK	21.63	27.63
10MHz	1 RB mid	1775	QPSK	21.59	27.59
10MHz	1 RB high	1775	QPSK	21.05	27.05
10MHz	100% RB	1775	QPSK	20.56	26.56
10MHz	1 RB low	1775	16QAM	20.91	26.91

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10MHz	1 RB mid	1775	16QAM	20.90	26.90
10MHz	1 RB high	1775	16QAM	20.33	26.33
10MHz	100% RB	1775	16QAM	19.49	25.49
10MHz	50%,low	1715	QPSK	23.62	29.62
10MHz	50% RB mid	1715	QPSK	22.15	28.15
10MHz	50%,high	1715	QPSK	23.45	29.45
10MHz	50%,low	1715	16QAM	23.43	29.43
10MHz	50% RB mid	1715	16QAM	21.13	27.13
10MHz	50%,high	1715	16QAM	23.43	29.43
10MHz	50%,low	1745	QPSK	22.19	28.19
10MHz	50% RB mid	1745	QPSK	21.34	27.34
10MHz	50%,high	1745	QPSK	22.25	28.25
10MHz	50%,low	1745	16QAM	22.25	28.25
10MHz	50% RB mid	1745	16QAM	20.14	26.14
10MHz	50%,high	1745	16QAM	22.23	28.23
10MHz	50%,low	1775	QPSK	21.45	27.45
10MHz	50% RB mid	1775	QPSK	21.16	27.16
10MHz	50%,high	1775	QPSK	21.81	27.81
10MHz	50%,low	1775	16QAM	21.78	27.78
10MHz	50% RB mid	1775	16QAM	20.14	26.14
10MHz	50%,high	1775	16QAM	21.78	27.78
15MHz	1 RB low	1717.5	QPSK	22.89	28.89
15MHz	1 RB mid	1717.5	QPSK	22.43	28.43
15MHz	1 RB high	1717.5	QPSK	21.47	27.47
15MHz	100% RB	1717.5	QPSK	21.05	27.05
15MHz	1 RB low	1717.5	16QAM	21.89	27.89
15MHz	1 RB mid	1717.5	16QAM	21.38	27.38
15MHz	1 RB high	1717.5	16QAM	20.40	26.40
15MHz	100% RB	1717.5	16QAM	19.98	25.98
15MHz	1 RB low	1745	QPSK	21.88	27.88
15MHz	1 RB mid	1745	QPSK	21.91	27.91
15MHz	1 RB high	1745	QPSK	21.28	27.28
15MHz	100% RB	1745	QPSK	20.83	26.83
15MHz	1 RB low	1745	16QAM	21.22	27.22
15MHz	1 RB mid	1745	16QAM	21.26	27.26
15MHz	1 RB high	1745	16QAM	20.64	26.64
15MHz	100% RB	1745	16QAM	19.67	25.67
15MHz	1 RB low	1772.5	QPSK	21.17	27.17

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15MHz	1 RB mid	1772.5	QPSK	21.79	27.79
15MHz	1 RB high	1772.5	QPSK	21.18	27.18
15MHz	100% RB	1772.5	QPSK	20.75	26.75
15MHz	1 RB low	1772.5	16QAM	20.40	26.40
15MHz	1 RB mid	1772.5	16QAM	21.06	27.06
15MHz	1 RB high	1772.5	16QAM	20.47	26.47
15MHz	100% RB	1772.5	16QAM	19.68	25.68
15MHz	50%,low	1717.5	QPSK	21.58	27.58
15MHz	50% RB mid	1717.5	QPSK	21.79	27.79
15MHz	50%,high	1717.5	QPSK	21.54	27.54
15MHz	50%,low	1717.5	16QAM	21.58	27.58
15MHz	50% RB mid	1717.5	16QAM	20.60	26.60
15MHz	50%,high	1717.5	16QAM	21.56	27.56
15MHz	50%,low	1745	QPSK	21.61	27.61
15MHz	50% RB mid	1745	QPSK	21.38	27.38
15MHz	50%,high	1745	QPSK	21.59	27.59
15MHz	50%,low	1745	16QAM	21.56	27.56
15MHz	50% RB mid	1745	16QAM	20.15	26.15
15MHz	50%,high	1745	16QAM	21.58	27.58
15MHz	50%,low	1772.5	QPSK	21.79	27.79
15MHz	50% RB mid	1772.5	QPSK	21.23	27.23
15MHz	50%,high	1772.5	QPSK	21.74	27.74
15MHz	50%,low	1772.5	16QAM	21.74	27.74
15MHz	50% RB mid	1772.5	16QAM	20.18	26.18
15MHz	50%,high	1772.5	16QAM	21.74	27.74
20MHz	1 RB low	1720	QPSK	22.73	28.73
20MHz	1 RB mid	1720	QPSK	21.58	27.58
20MHz	1 RB high	1720	QPSK	21.24	27.24
20MHz	100% RB	1720	QPSK	20.28	26.28
20MHz	1 RB low	1720	16QAM	21.98	27.98
20MHz	1 RB mid	1720	16QAM	20.78	26.78
20MHz	1 RB high	1720	16QAM	20.40	26.40
20MHz	100% RB	1720	16QAM	19.03	25.03
20MHz	1 RB low	1745	QPSK	21.61	27.61
20MHz	1 RB mid	1745	QPSK	22.01	28.01
20MHz	1 RB high	1745	QPSK	21.09	27.09
20MHz	100% RB	1745	QPSK	20.76	26.76
20MHz	1 RB low	1745	16QAM	20.86	26.86

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20MHz	1 RB mid	1745	16QAM	21.24	27.24
20MHz	1 RB high	1745	16QAM	20.35	26.35
20MHz	100% RB	1745	16QAM	19.56	25.56
20MHz	1 RB low	1770	QPSK	20.90	26.90
20MHz	1 RB mid	1770	QPSK	21.94	27.94
20MHz	1 RB high	1770	QPSK	21.29	27.29
20MHz	100% RB	1770	QPSK	20.72	26.72
20MHz	1 RB low	1770	16QAM	19.99	25.99
20MHz	1 RB mid	1770	16QAM	21.07	27.07
20MHz	1 RB high	1770	16QAM	20.40	26.40
20MHz	100% RB	1770	16QAM	19.72	25.72
20MHz	50%,low	1720	QPSK	22.84	28.84
20MHz	50% RB mid	1720	QPSK	21.04	27.04
20MHz	50%,high	1720	QPSK	22.87	28.87
20MHz	50%,low	1720	16QAM	22.44	28.44
20MHz	50% RB mid	1720	16QAM	19.80	25.80
20MHz	50%,high	1720	16QAM	22.96	28.96
20MHz	50%,low	1745	QPSK	21.28	27.28
20MHz	50% RB mid	1745	QPSK	21.37	27.37
20MHz	50%,high	1745	QPSK	21.28	27.28
20MHz	50%,low	1745	16QAM	21.24	27.24
20MHz	50% RB mid	1745	16QAM	20.17	26.17
20MHz	50%,high	1745	16QAM	21.10	27.10
20MHz	50%,low	1770	QPSK	21.11	27.11
20MHz	50% RB mid	1770	QPSK	21.13	27.13
20MHz	50%,high	1770	QPSK	21.03	27.03
20MHz	50%,low	1770	16QAM	21.03	27.03
20MHz	50% RB mid	1770	16QAM	20.12	26.12
20MHz	50%,high	1770	16QAM	20.79	26.79

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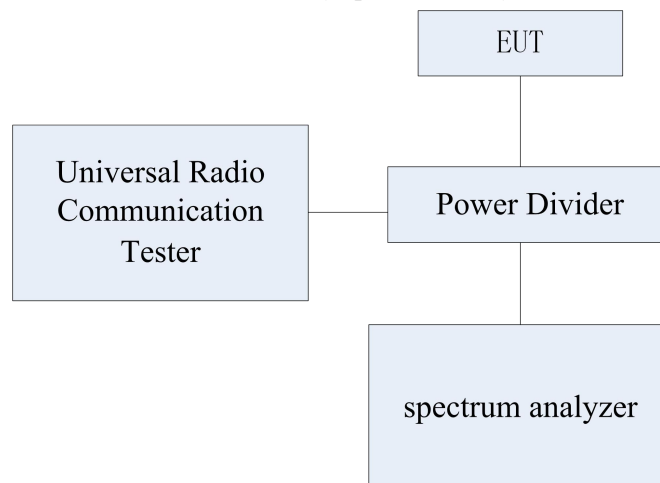
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6.4. Occupied Bandwidth

Specifications:	FCC Part 2.1049, 22.917(b), 24.238(b)
DUT Serial Number:	862733060028209
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	500 kHz (k=2)

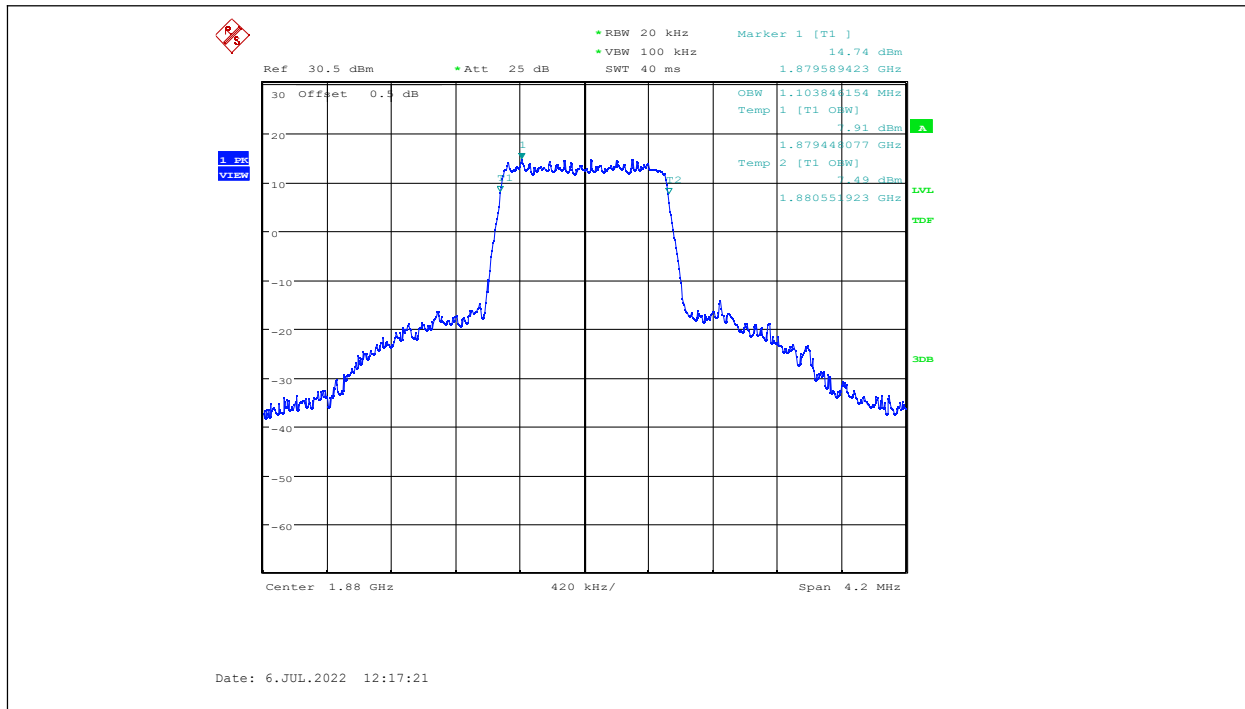
Test Method

The 99% occupied Bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power Band. The 26dB Bandwidth was also measured and recorded.

Note: --

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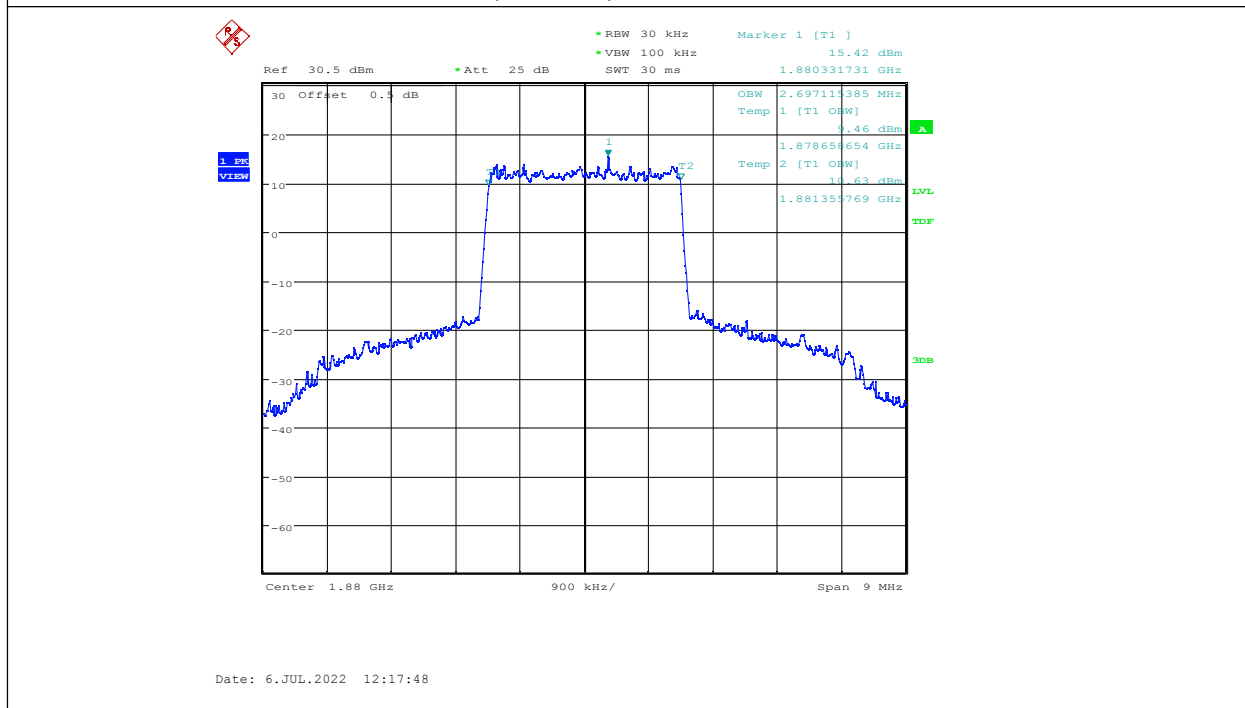
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LTE band 2,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1880	2.697	2.697

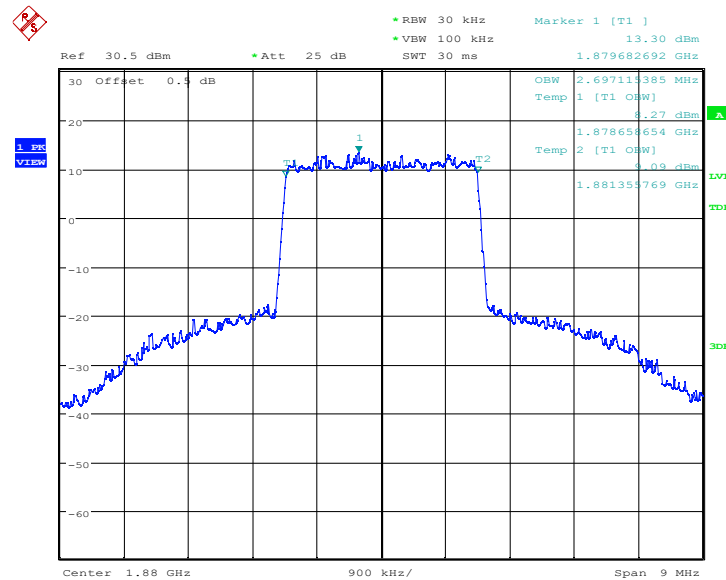
LTE band 2 , 3MHz Bandwidth,QPSK (99% BW)



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LTE band 2 , 3MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:18:13

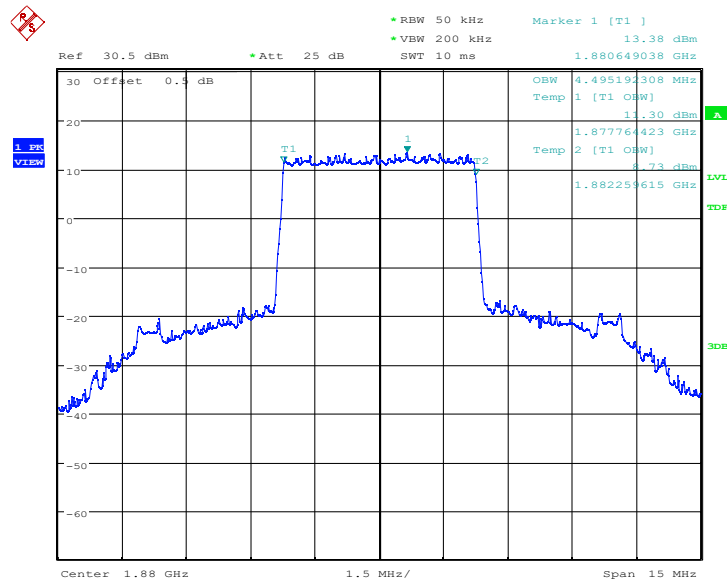
LTE band 2,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1880	4.495	4.495

LTE band 2 , 5MHz Bandwidth,QPSK (99% BW)

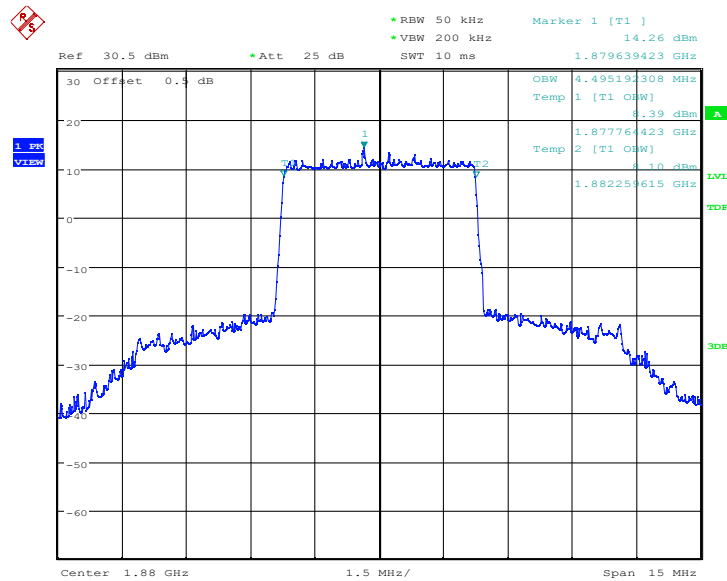
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Date: 6.JUL.2022 12:18:45

LTE band 2 , 5MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:19:07

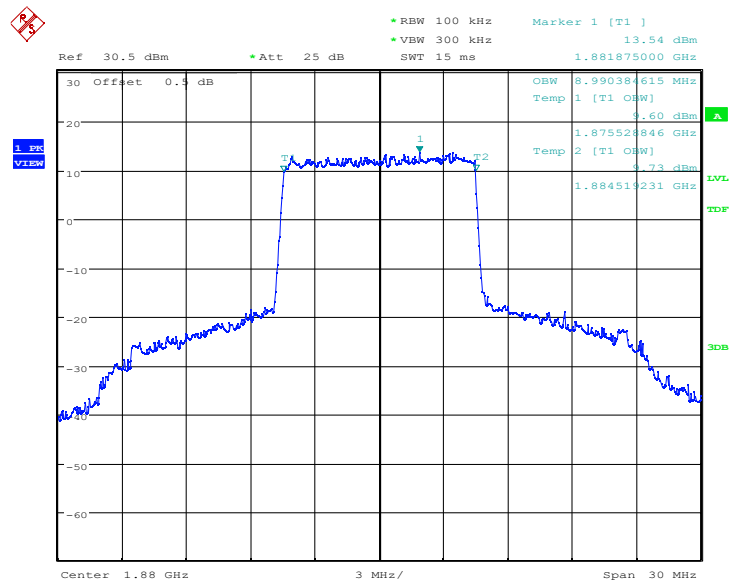
LTE band 2,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1880	8.990	8.942

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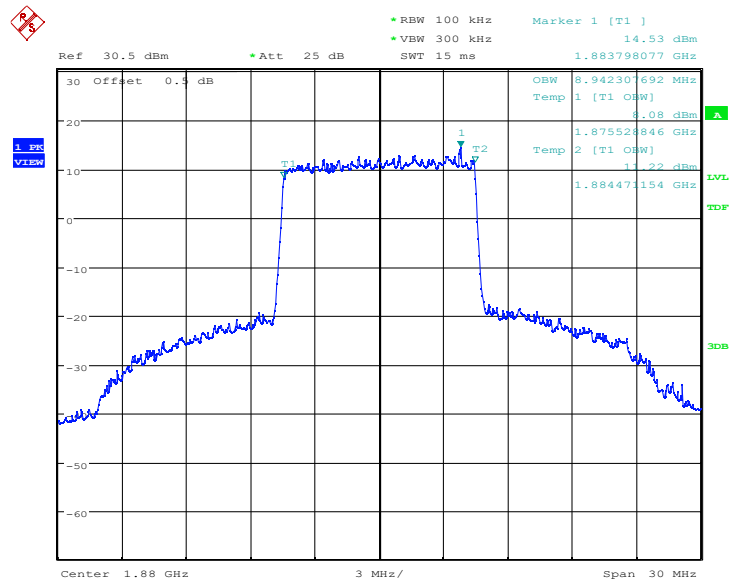
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LTE band 2 , 10MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:19:36

LTE band 2 , 10MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:20:01

LTE band 2,15MHz(99%)

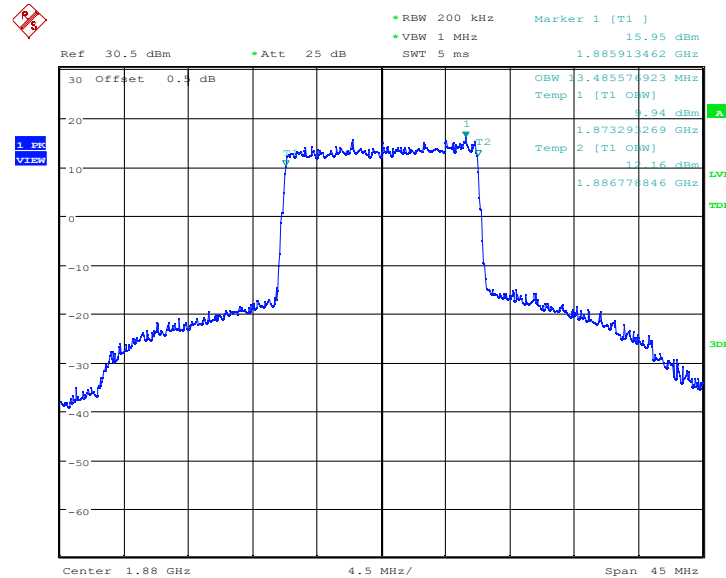
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
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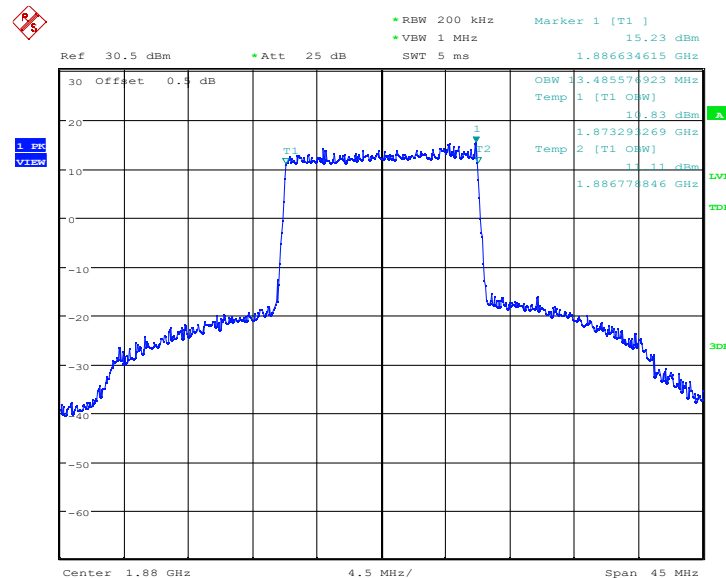
	QPSK	16QAM
1880	13.486	13.486

LTE band 2 , 15MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:20:41

LTE band 2 , 15MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:21:02

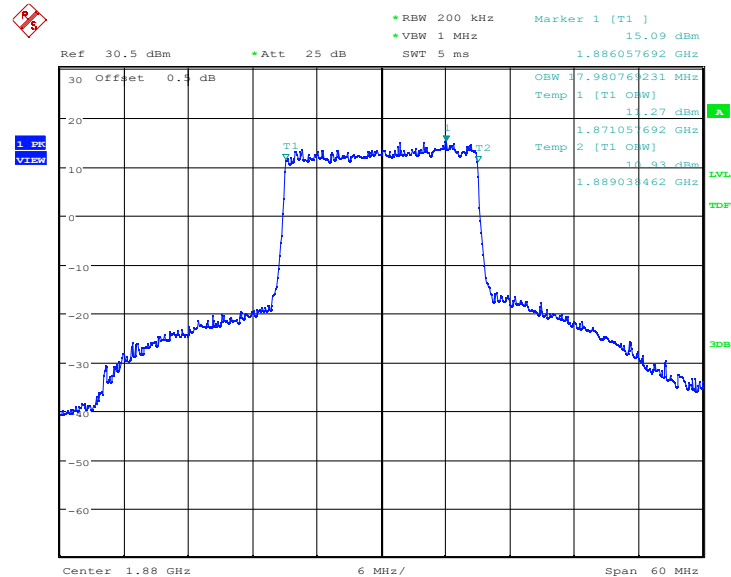
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LTE band 2,20MHz(99%)

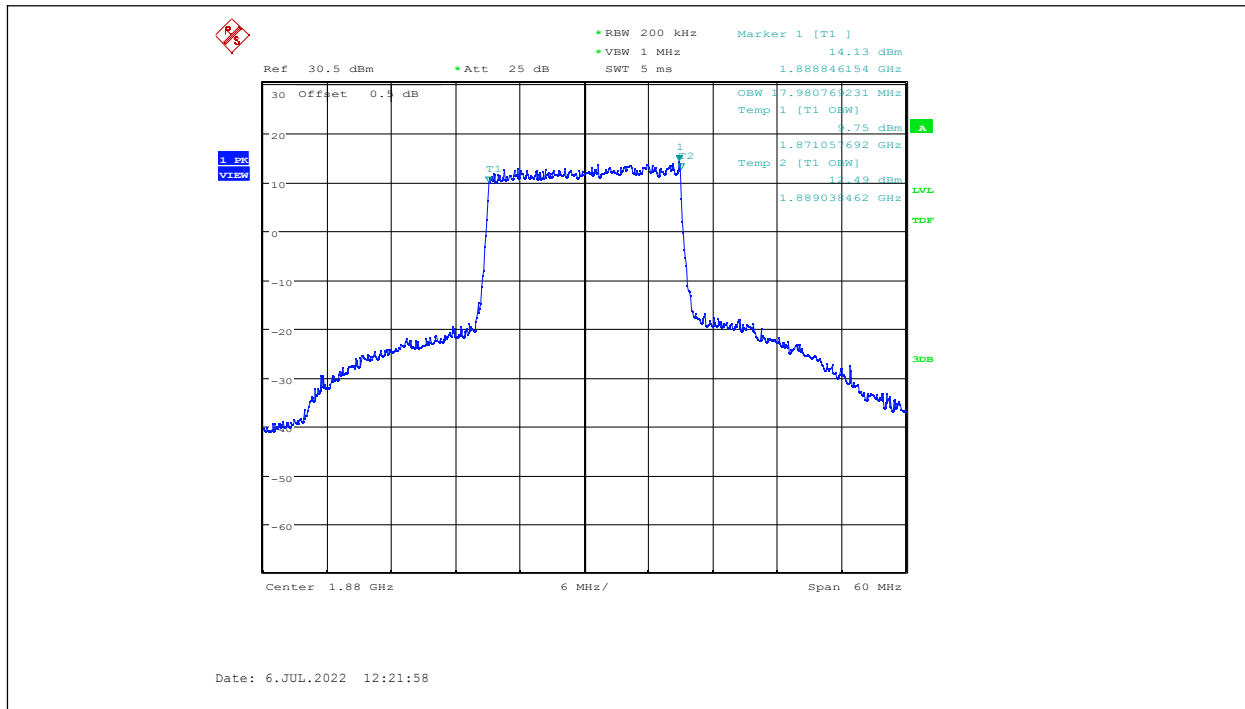
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1880	17.981	17.981

LTE band 2 , 20MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:21:32

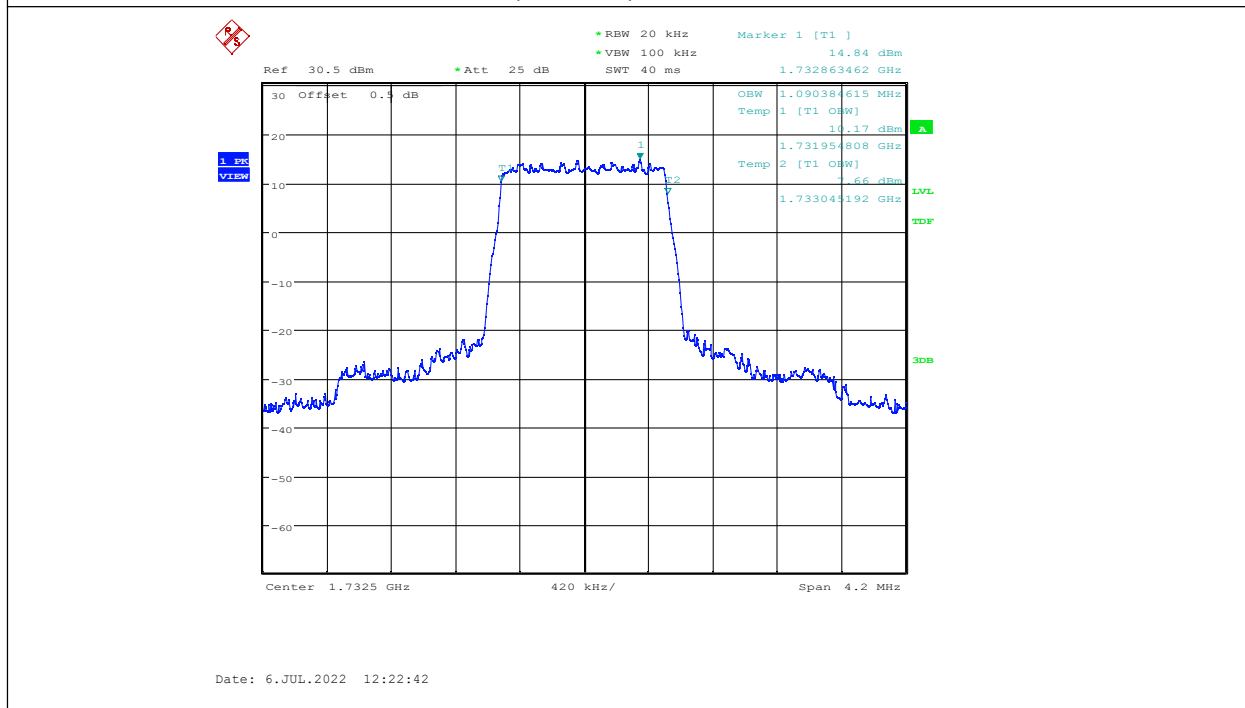
LTE band 2 , 20MHz Bandwidth,16QAM (99% BW)



LTE band 4,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	1.090	1.104

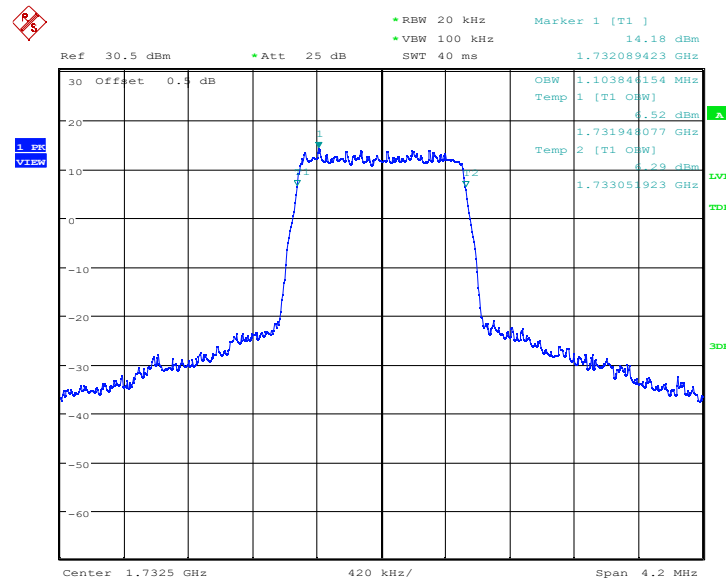
LTE band 4 , 1.4MHz Bandwidth,QPSK (99% BW)



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LTE band 4 , 1.4MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:23:05

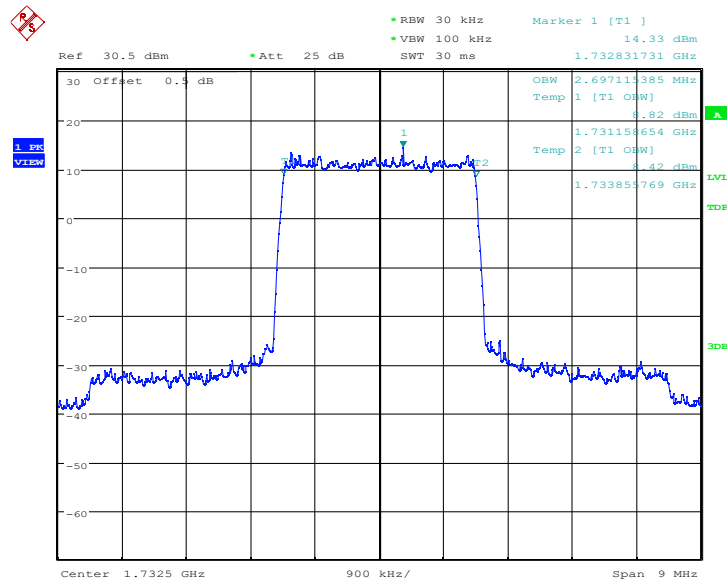
LTE band 4,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	2.697	2.697

LTE band 4 , 3MHz Bandwidth,QPSK (99% BW)

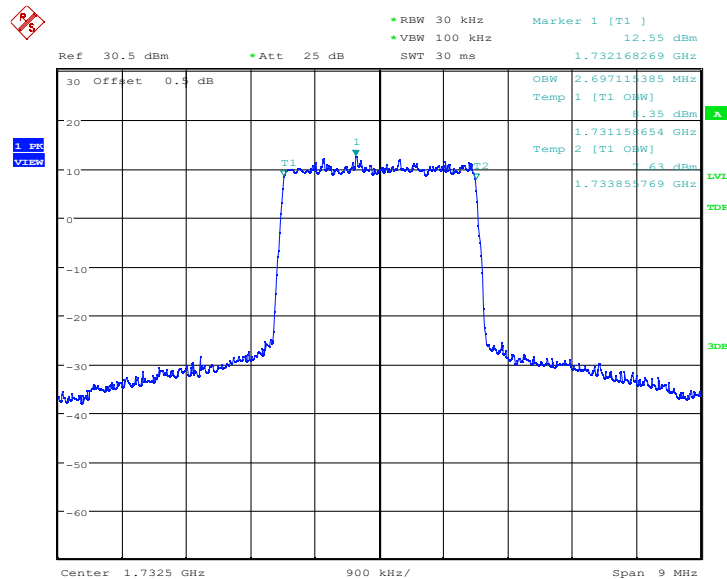
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Date: 6.JUL.2022 12:23:45

LTE band 4 , 3MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:24:10

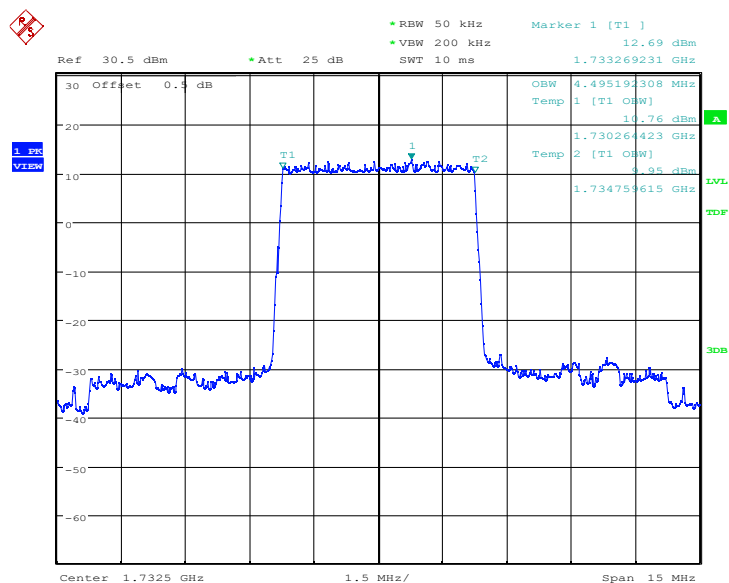
LTE band 4,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	4.495	4.495

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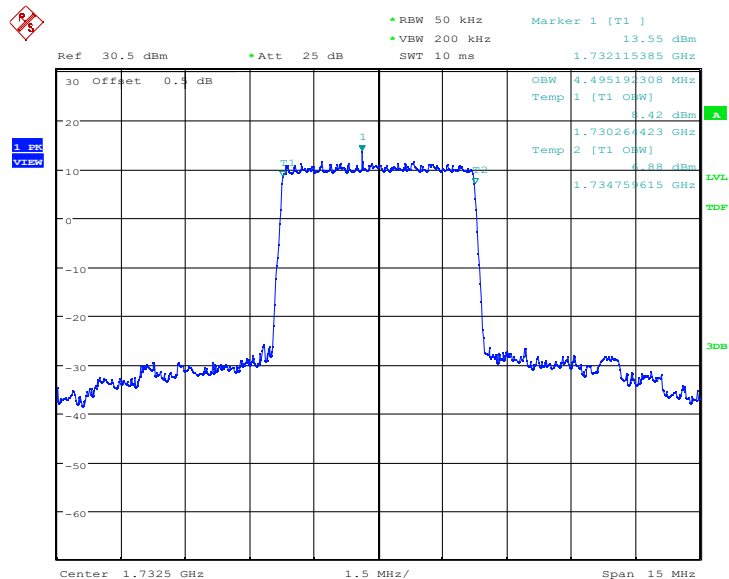
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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LTE band 4 , 5MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:24:37

LTE band 4 , 5MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:24:58

LTE band 4,10MHz(99%)

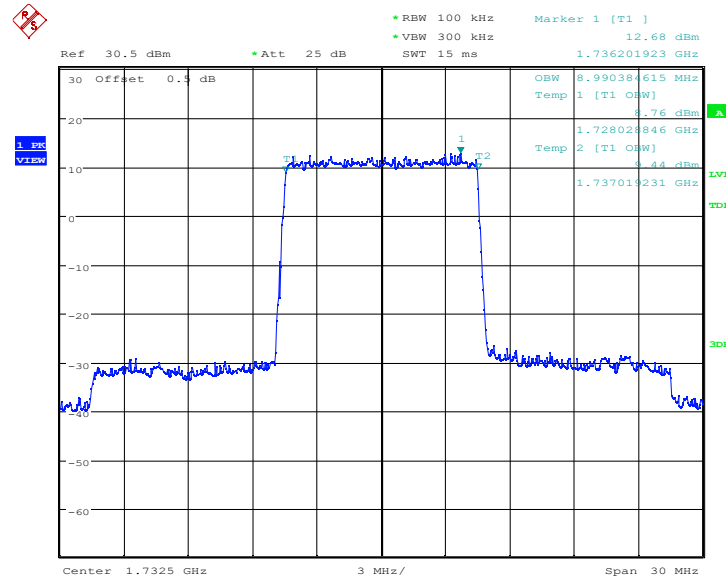
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
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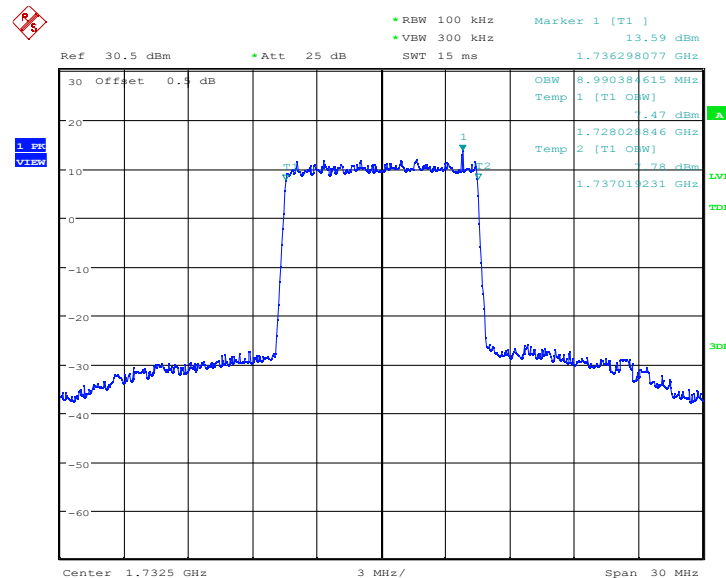
	QPSK	16QAM
1732.5	8.990	8.990

LTE band 4 , 10MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:25:39

LTE band 4 , 10MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:26:03

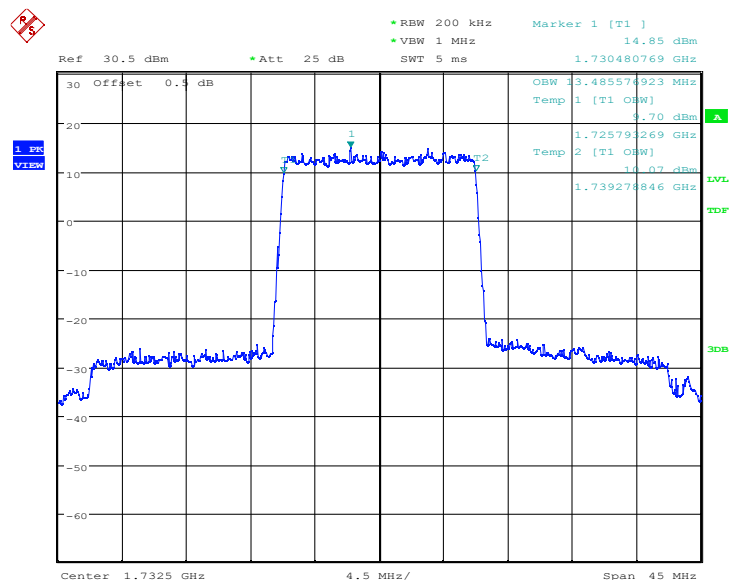
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LTE band 4,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	13.486	13.486

LTE band 4 , 15MHz Bandwidth,QPSK (99% BW)

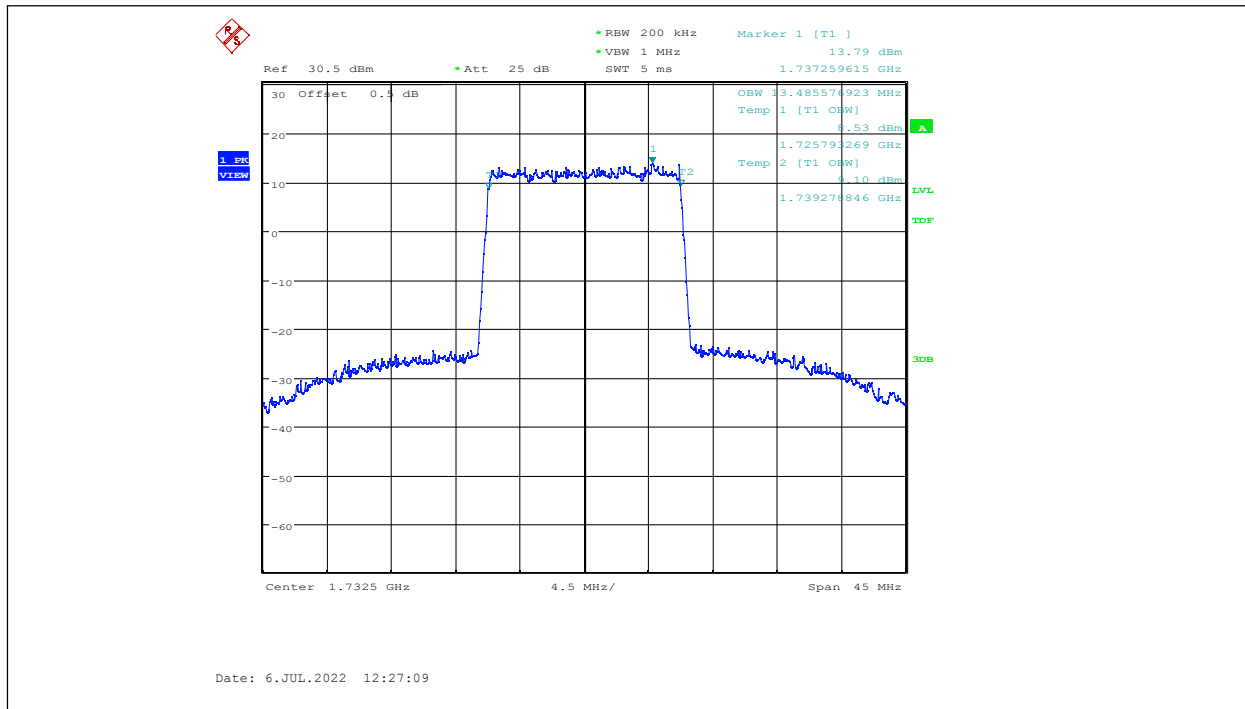


Date: 6.JUL.2022 12:26:43

LTE band 4 , 15MHz Bandwidth,16QAM (99% BW)

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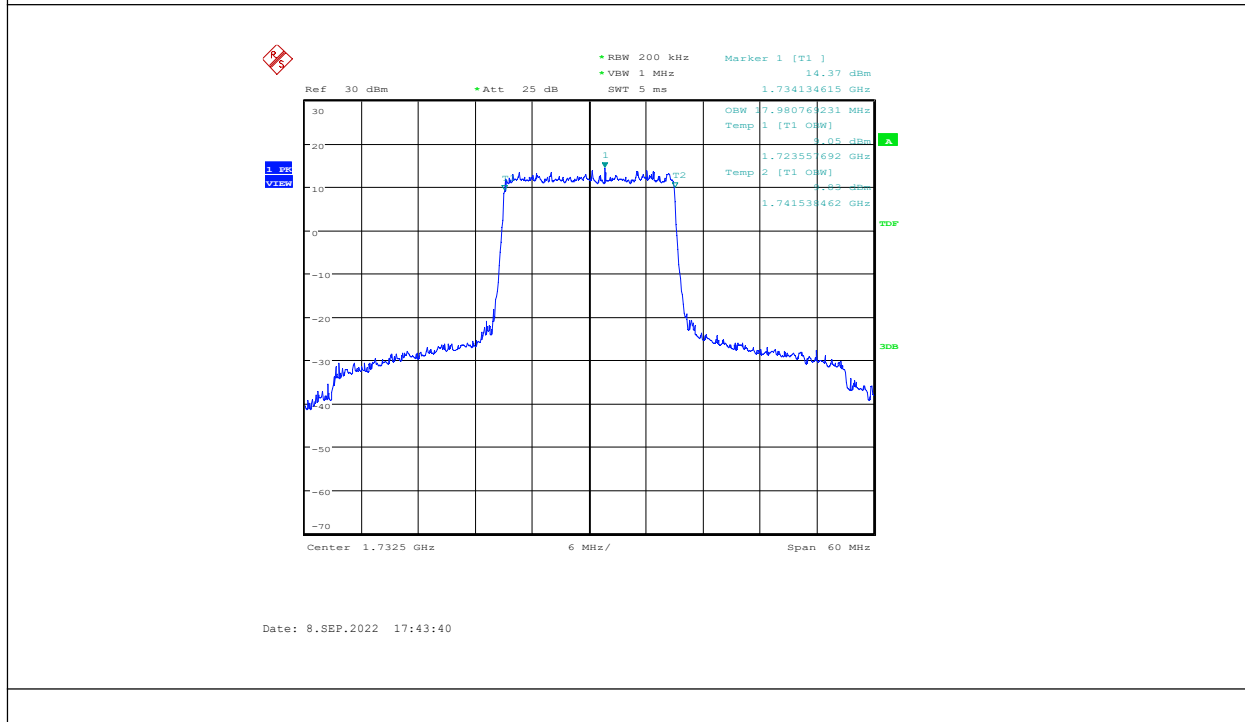
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LTE band 4,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1732.5	17.981	17.981

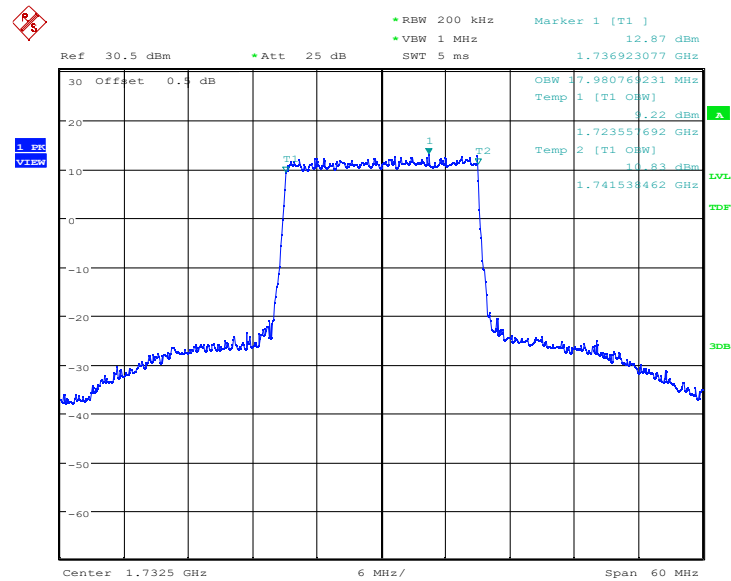
LTE band 4 , 20MHz Bandwidth,QPSK (99% BW)



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LTE band 4 , 20MHz Bandwidth,16QAM (99% BW)

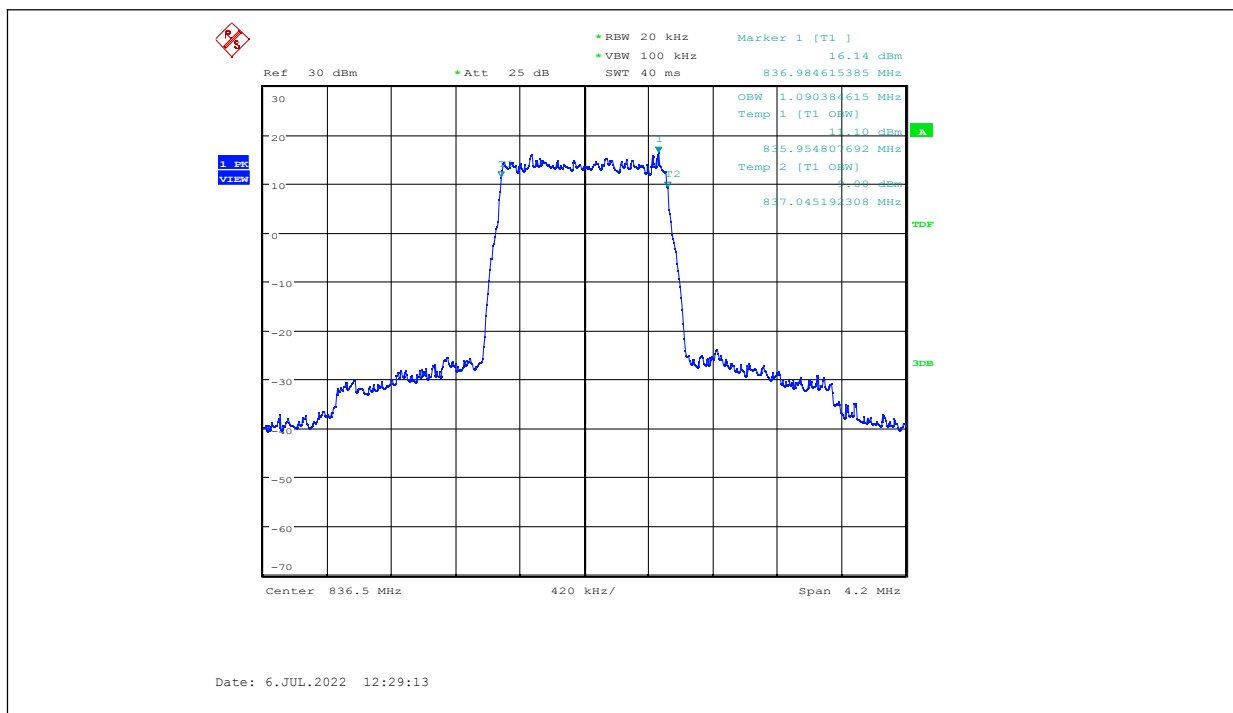


Date: 6.JUL.2022 12:28:18

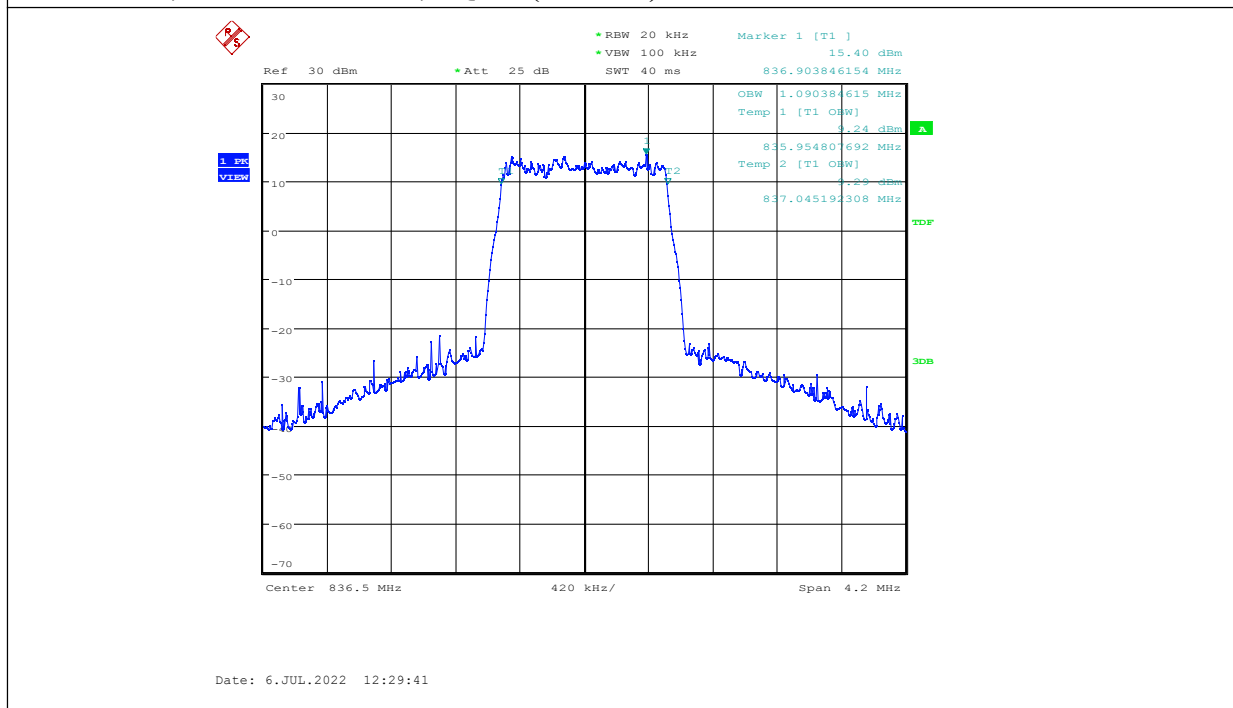
LTE band 5,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	1.090	1.090

LTE band 5 , 1.4MHz Bandwidth,QPSK (99% BW)



LTE band 5 , 1.4MHz Bandwidth,16QAM (99% BW)



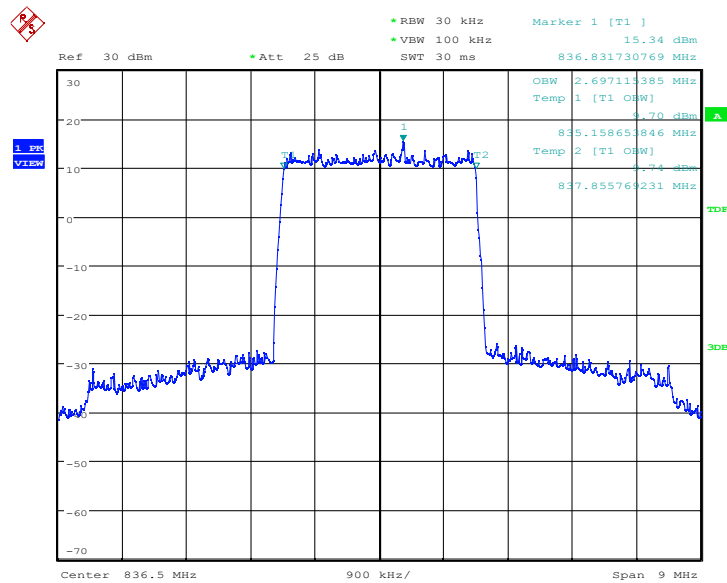
LTE band 5,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	2.697	2.683

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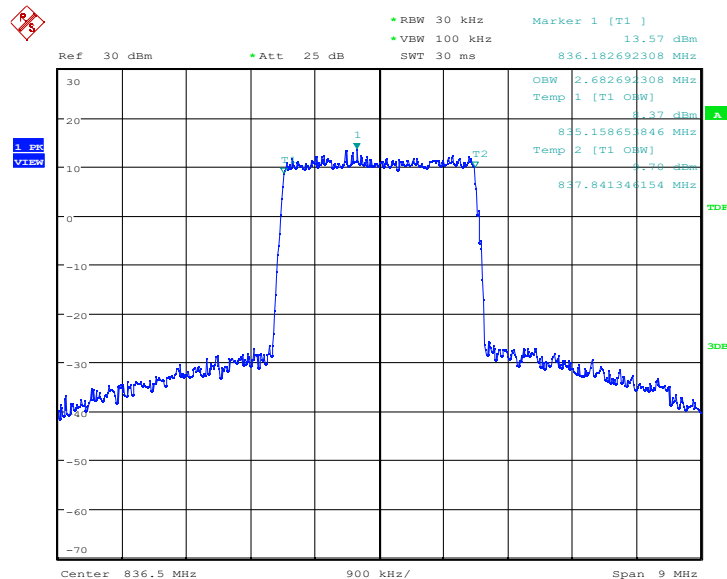
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LTE band 5 , 3MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:30:09

LTE band 5 , 3MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:30:36

LTE band 5,5MHz(99%)

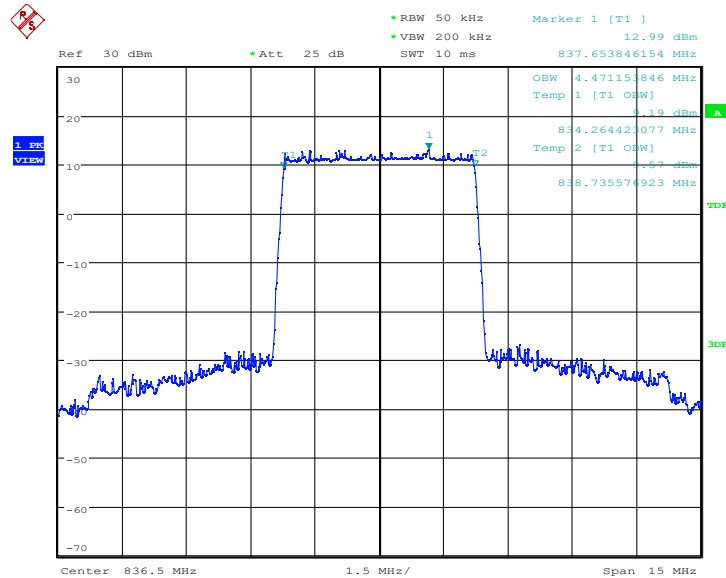
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
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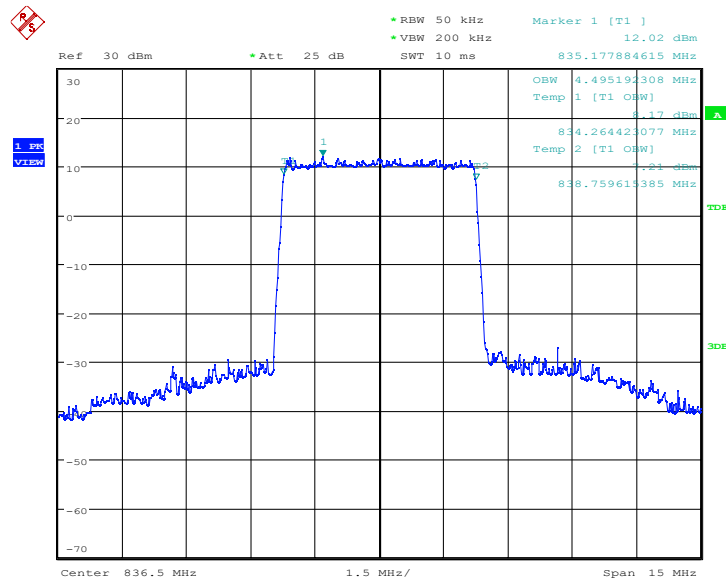
	QPSK	16QAM
836.5	4.471	4.495

LTE band 5 , 5MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:31:05

LTE band 5 , 5MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:31:30

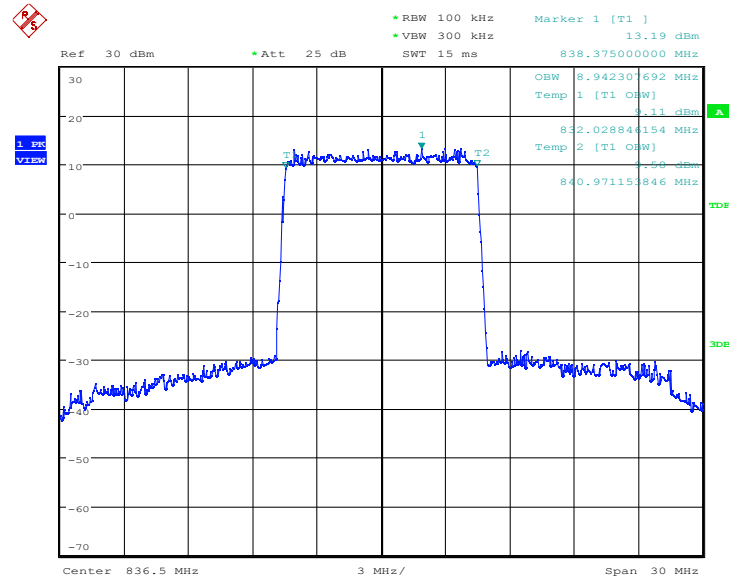
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LTE band 5,10MHz(99%)

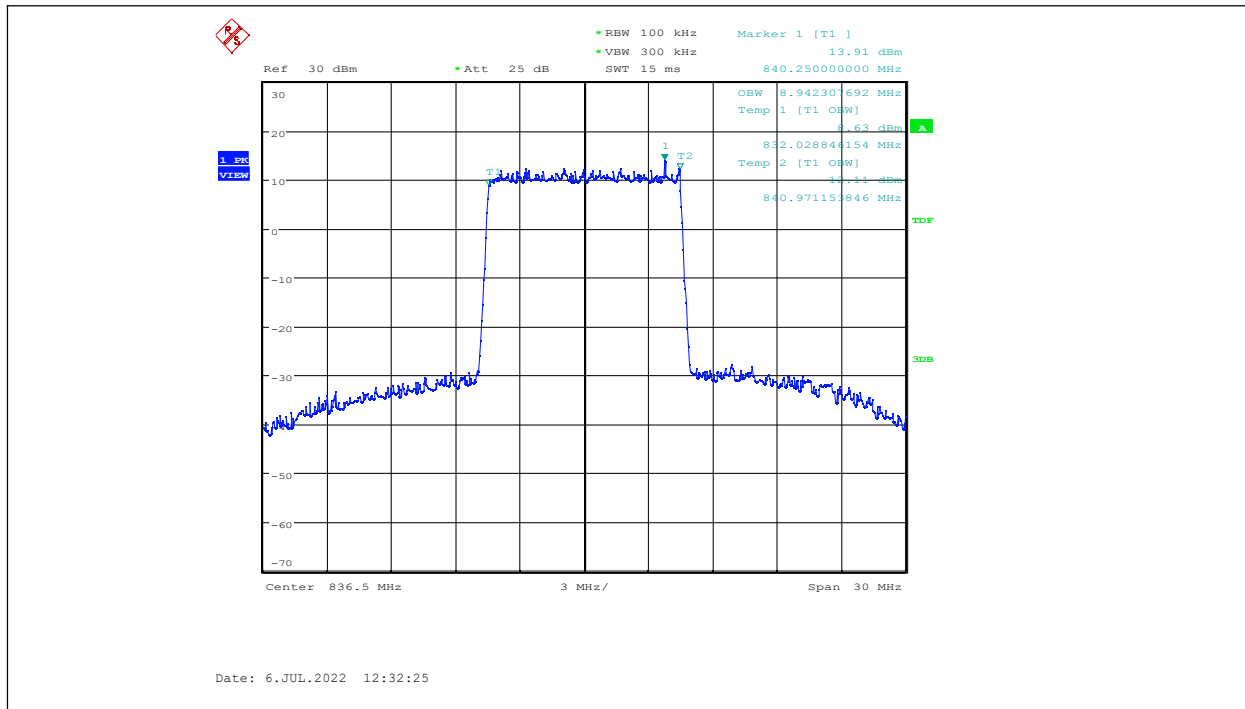
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	8.942	8.942

LTE band 5 , 10MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:31:56

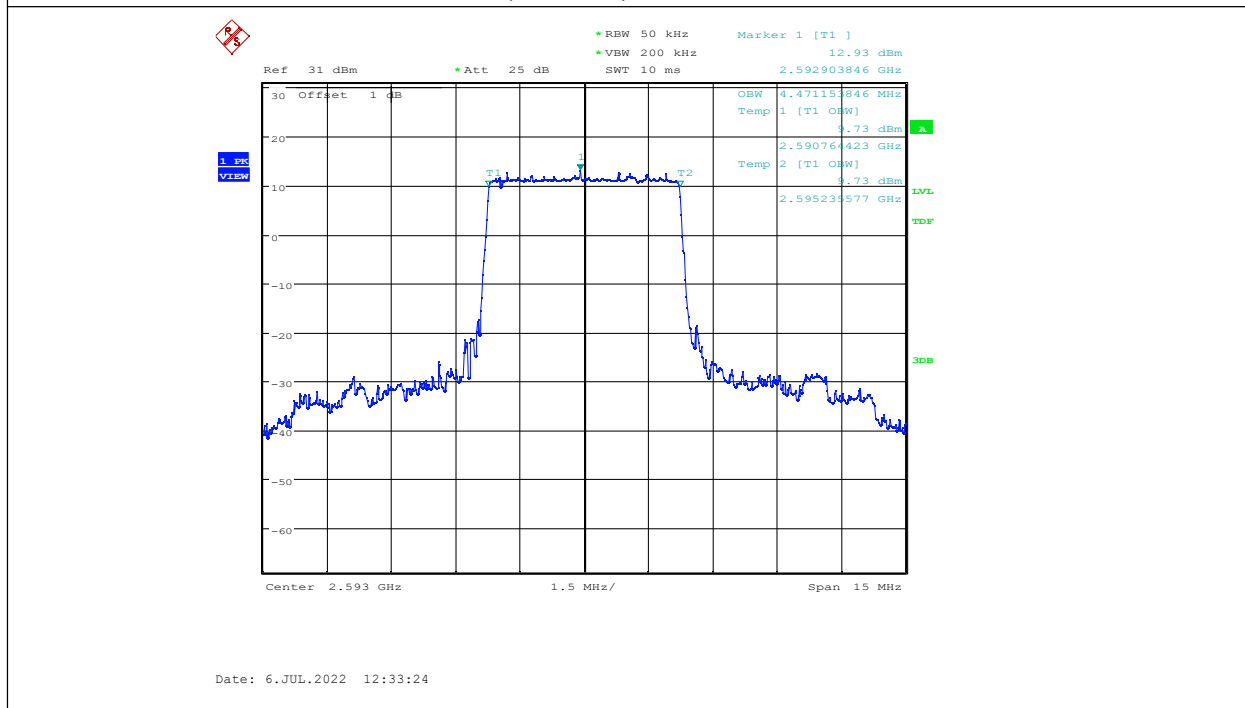
LTE band 5 , 10MHz Bandwidth,16QAM (99% BW)



LTE band 41,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	4.471	4.471

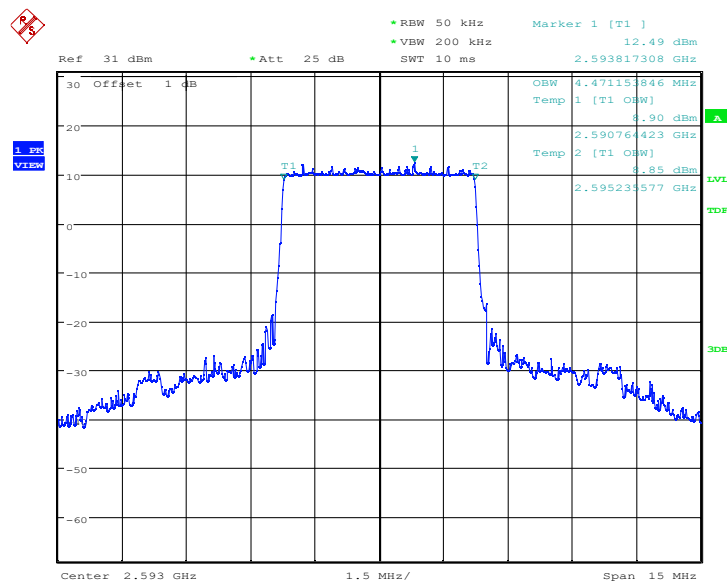
LTE band 41 , 5MHz Bandwidth,QPSK (99% BW)



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LTE band 41 , 5MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:33:46

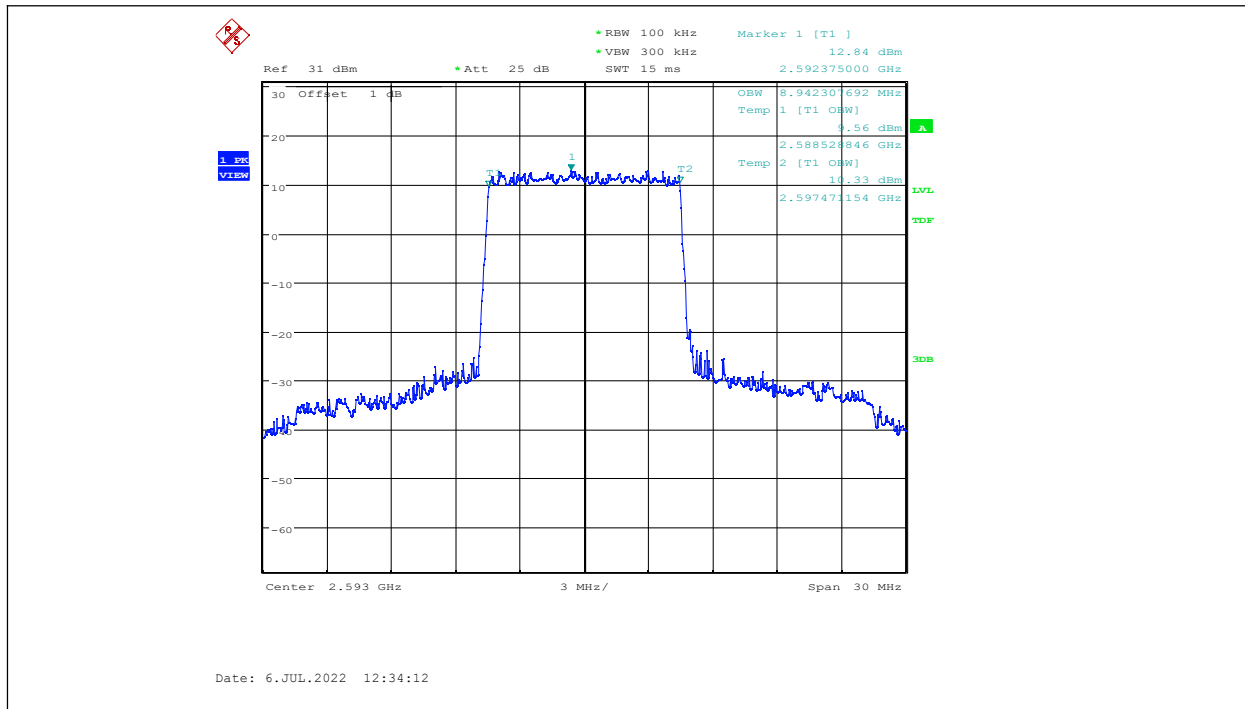
LTE band 41,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	8.942	8.942

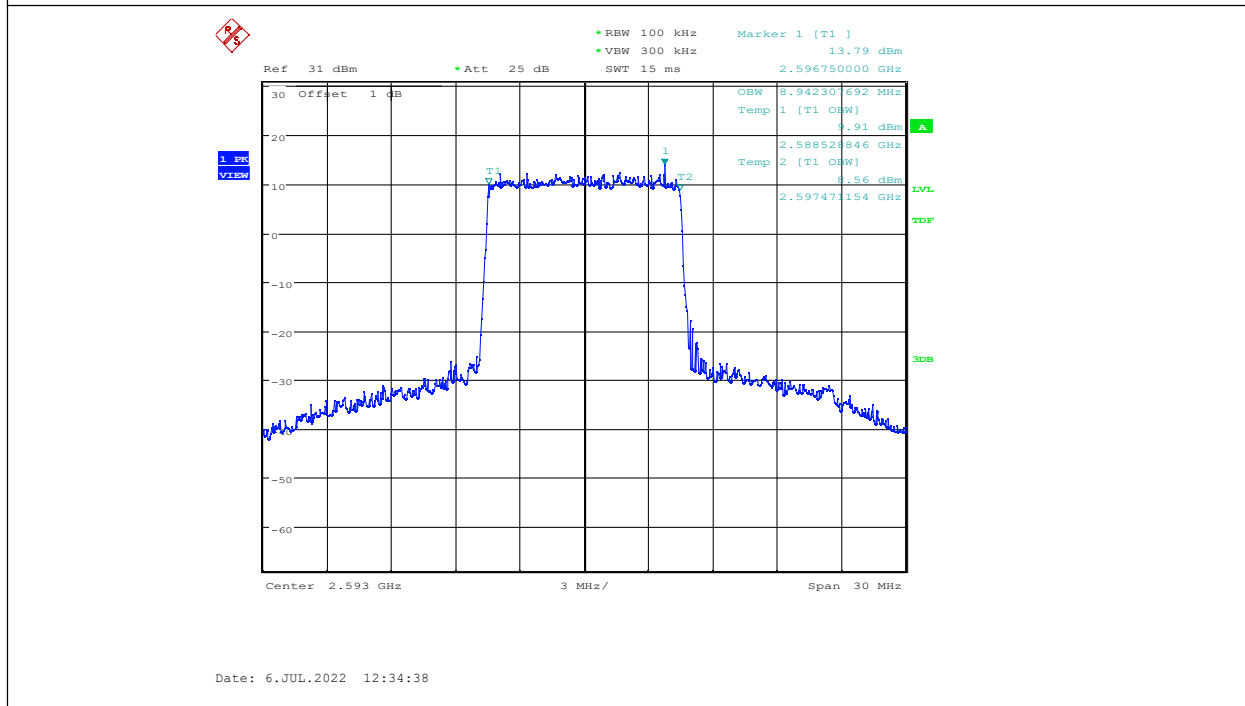
LTE band 41 , 10MHz Bandwidth,QPSK (99% BW)

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LTE band 41 , 10MHz Bandwidth,16QAM (99% BW)



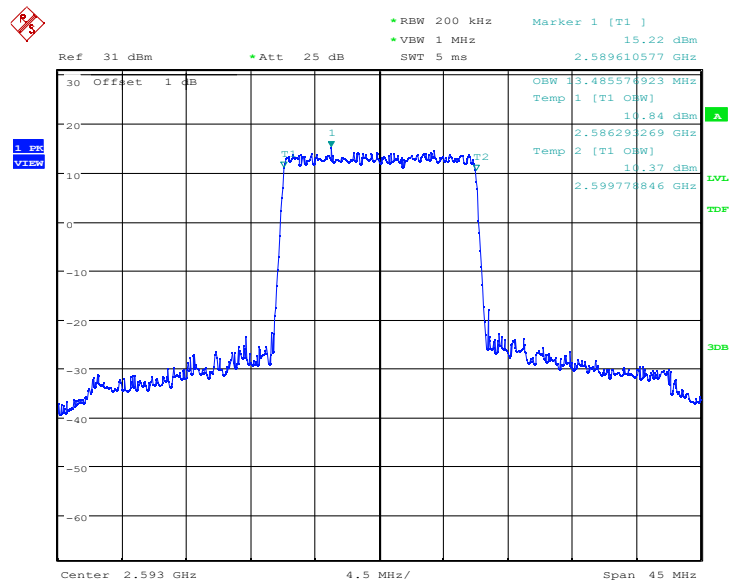
LTE band 41,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	13.486	13.486

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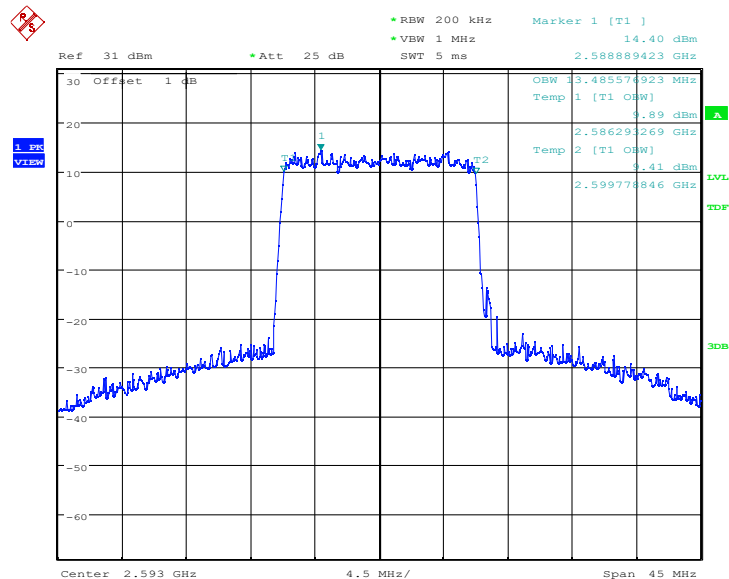
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LTE band 41 , 15MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:35:18

LTE band 41 , 15MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:35:45

LTE band 41,20MHz(99%)

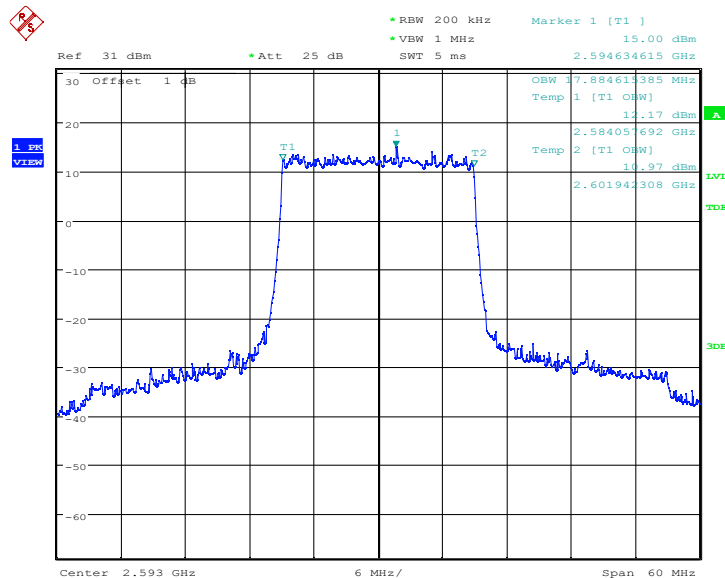
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
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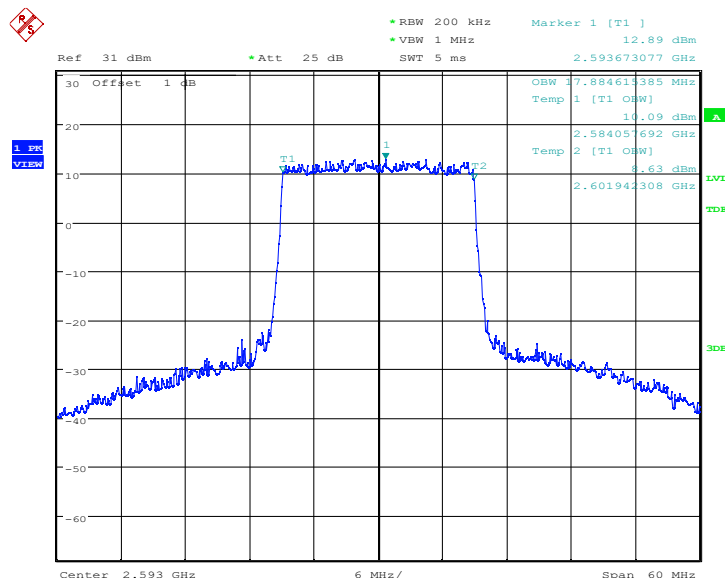
	QPSK	16QAM
2593	17.885	17.885

LTE band 41 , 20MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:36:37

LTE band 41 , 20MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:36:58

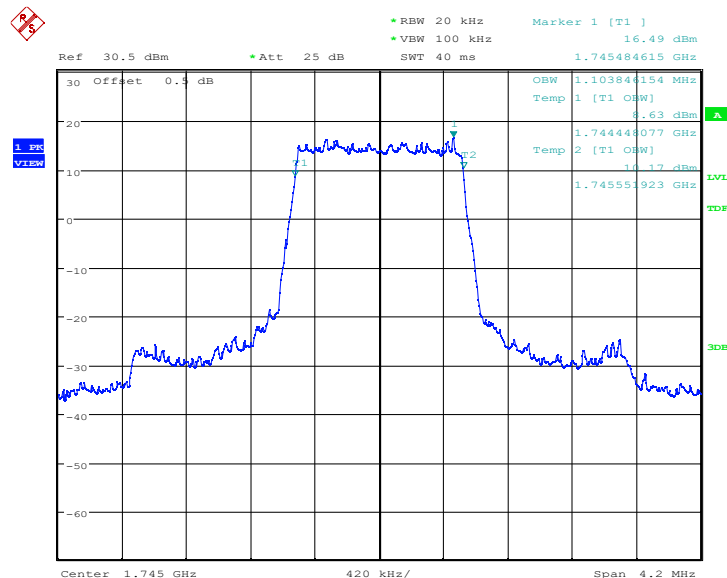
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LTE band 66,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	1.104	1.090

LTE band 66 , 1.4MHz Bandwidth,QPSK (99% BW)

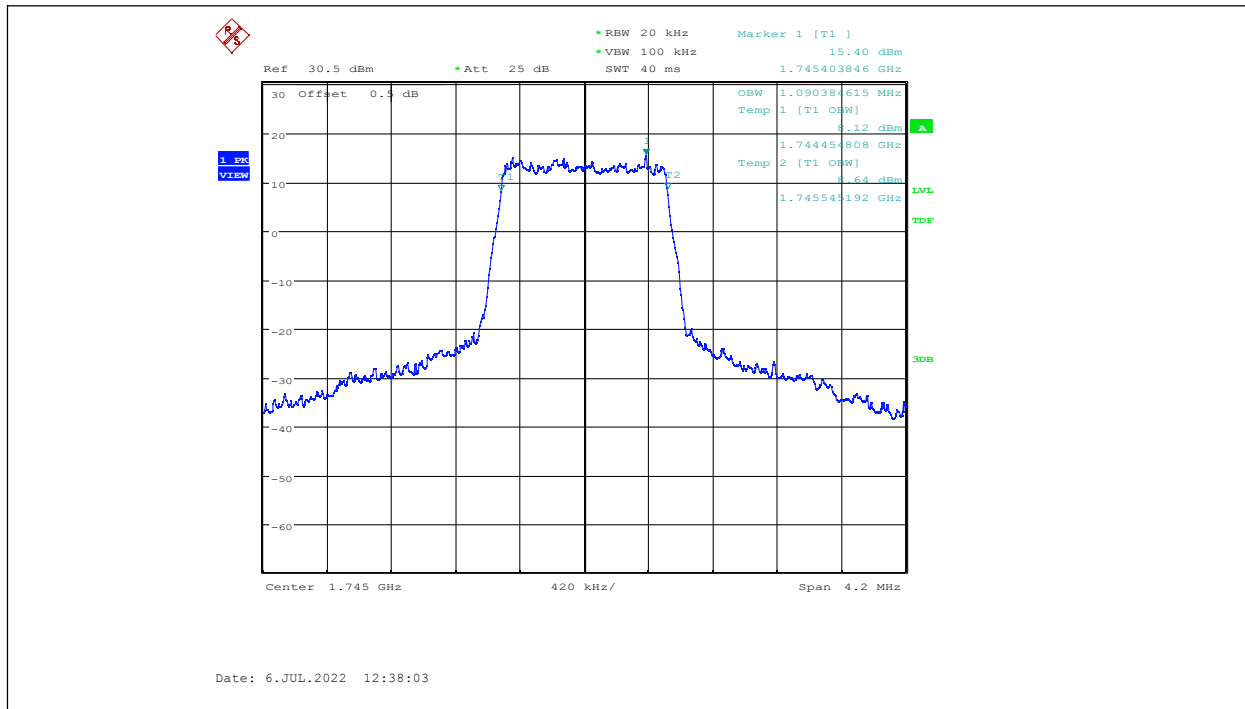


Date: 6.JUL.2022 12:37:42

LTE band 66 , 1.4MHz Bandwidth,16QAM (99% BW)

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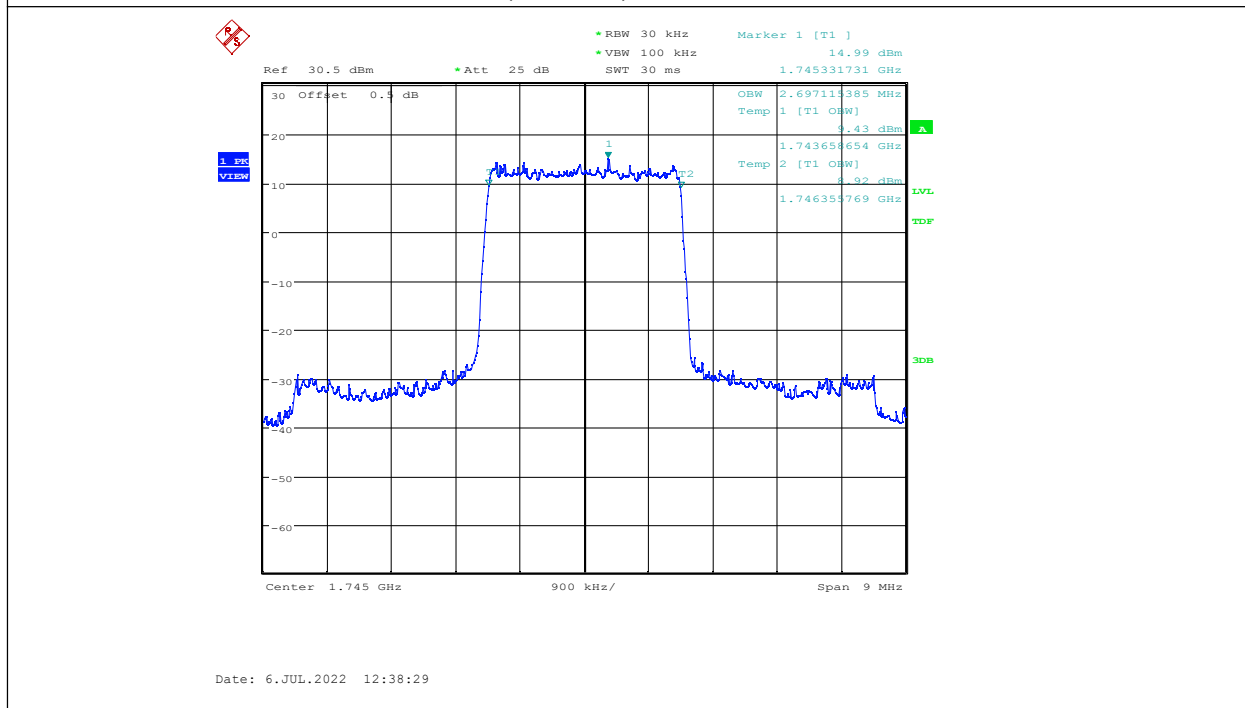
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



LTE band 66,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	2.697	2.697

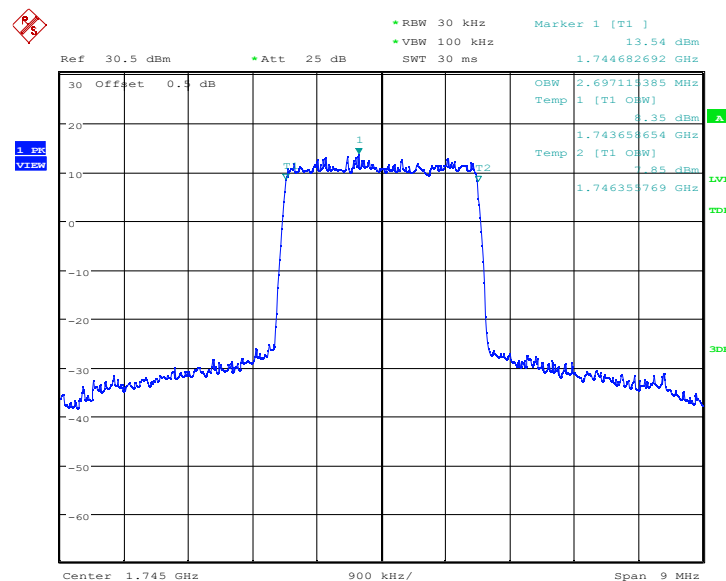
LTE band 66 , 3MHz Bandwidth,QPSK (99% BW)



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LTE band 66 , 3MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:38:54

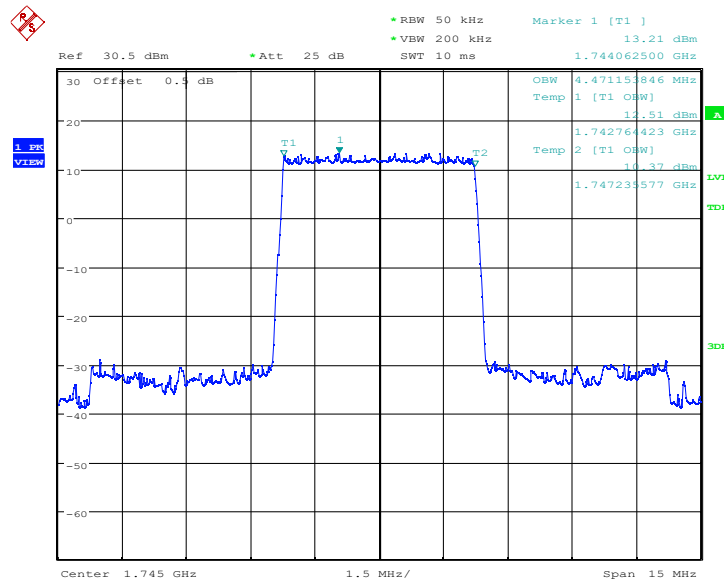
LTE band 66,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	4.471	4.471

LTE band 66 , 5MHz Bandwidth,QPSK (99% BW)

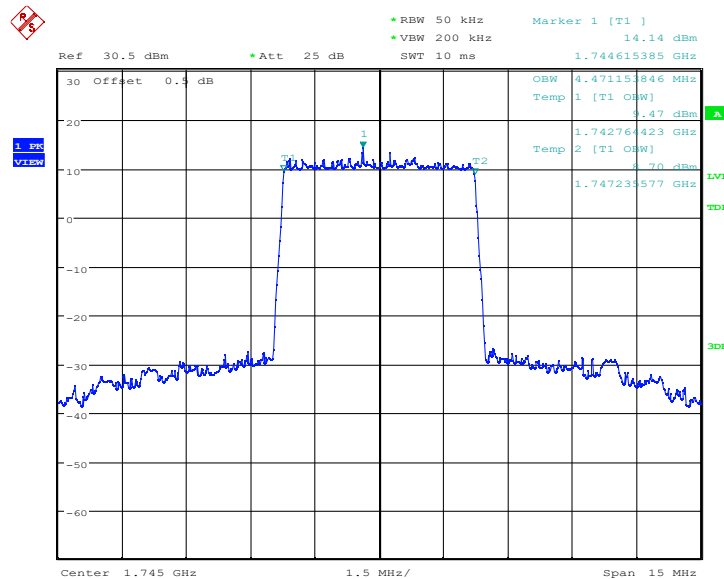
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Date: 6.JUL.2022 12:39:33

LTE band 66 , 5MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:39:55

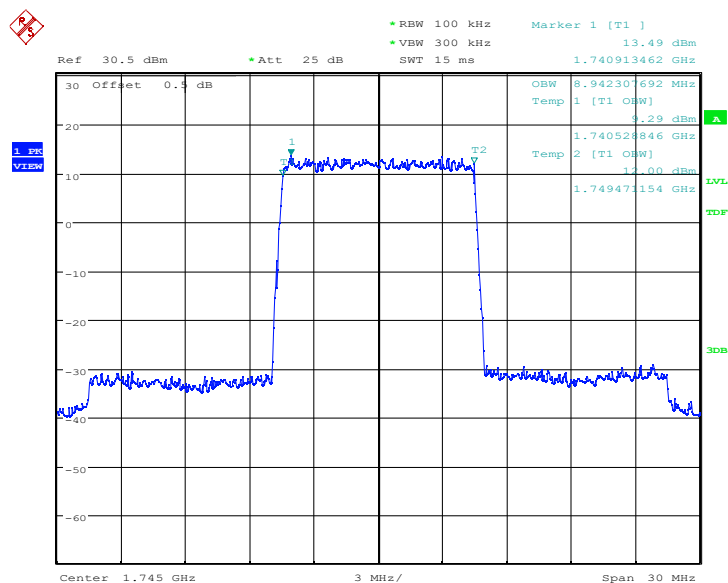
LTE band 66,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	8.942	8.942

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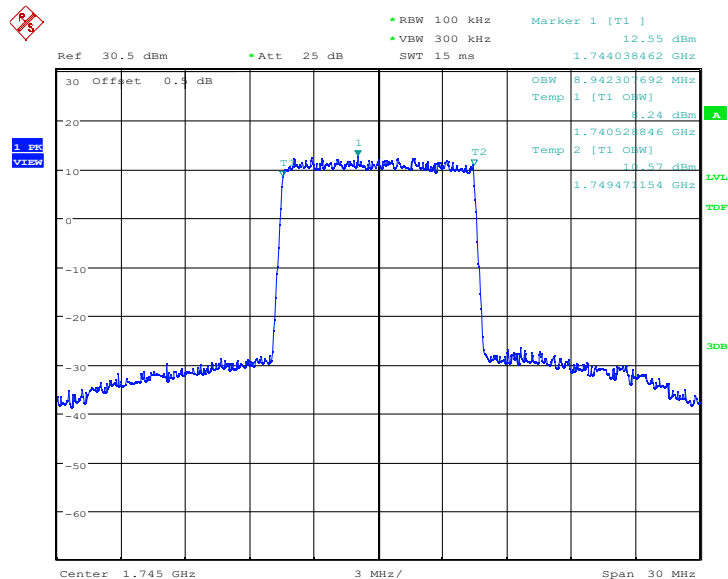
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LTE band 66 , 10MHz Bandwidth,QPSK (99% BW)



Date: 6.JUL.2022 12:40:34

LTE band 66 , 10MHz Bandwidth,16QAM (99% BW)



Date: 6.JUL.2022 12:40:58

LTE band 66,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
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	QPSK	16QAM
1745	13.486	13.486

* RBW 200 kHz
 * VBW 1 MHz
 * Att 25 dB
 * SWT 5 ms

Marker 1 [T1] 15.34 dBm
 1.742980769 GHz

Ref 30.5 dBm
 Offset 0.5 dB

OSW 13.485574923 MHz
 Temp 1 [T1 OSW] 11.09 dBm
 1.738294269 GHz
 Temp 2 [T1 OSW] 11.70 dBm
 1.751778846 GHz

1.745 GHz
 4.5 MHz/
 Span 45 MHz

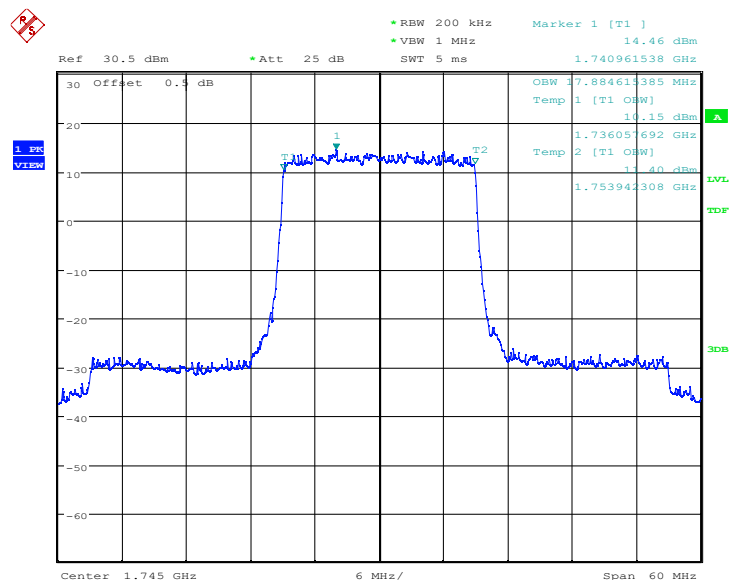
The screenshot displays a spectrum analyzer interface. At the top left, there is a red diamond icon containing the letters 'R' and 'S'. The main plot area shows a blue trace representing the power spectrum. The x-axis is labeled 'Center 1.745 GHz' and has a scale of '4.5 MHz/div'. The y-axis is labeled 'Span 45 MHz' and ranges from -60 dBm to 30 dBm. A prominent signal peak is visible at approximately 1.745 GHz, reaching a level of about 14.31 dBm. To the right of the plot, several parameters are listed: 'Ref 30.5 dBm', 'Att 25 dB', 'RBW 200 kHz', 'VBW 1 MHz', 'SWT 5 ms', and 'Marker 1 [T1] 14.31 dBm'. Below the plot, there are two green rectangular buttons labeled 'L SW' and 'VZSW'. On the far right edge, there are three small green square icons.

Page 108 of 271

LTE band 66,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	17.885	17.981

LTE band 66 , 20MHz Bandwidth,QPSK (99% BW)

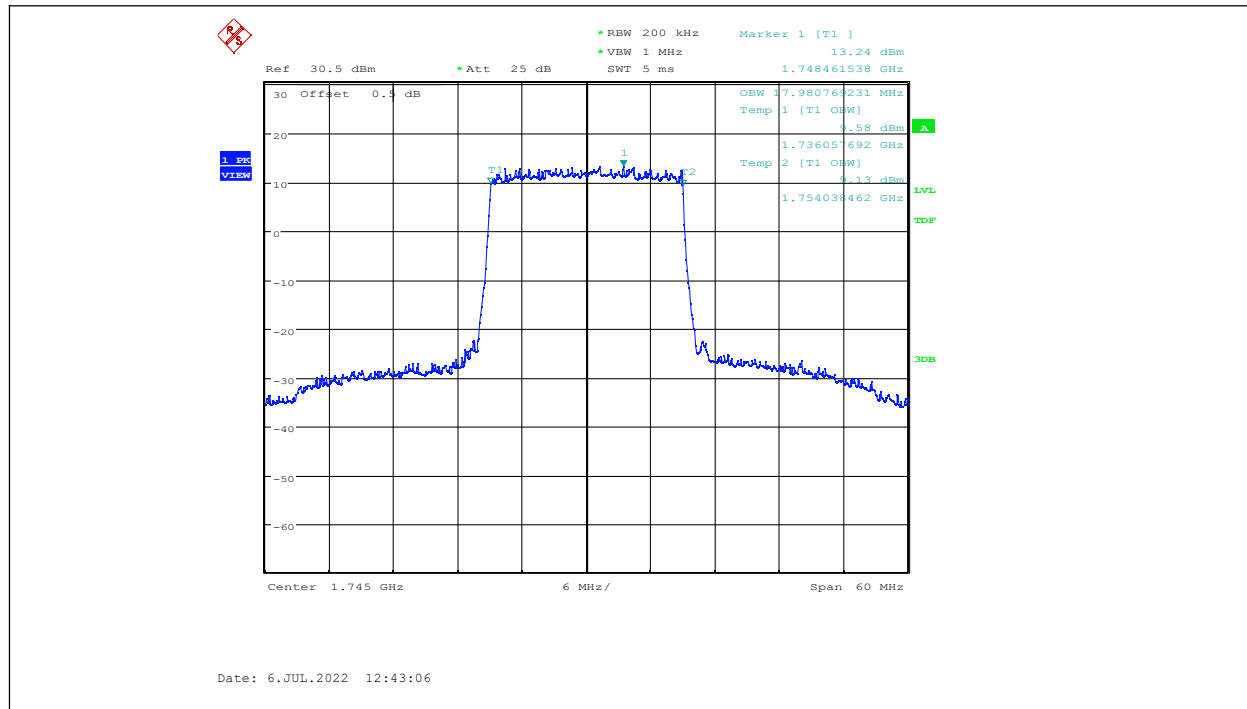


Date: 6.JUL.2022 12:42:41

LTE band 66 , 20MHz Bandwidth,16QAM (99% BW)

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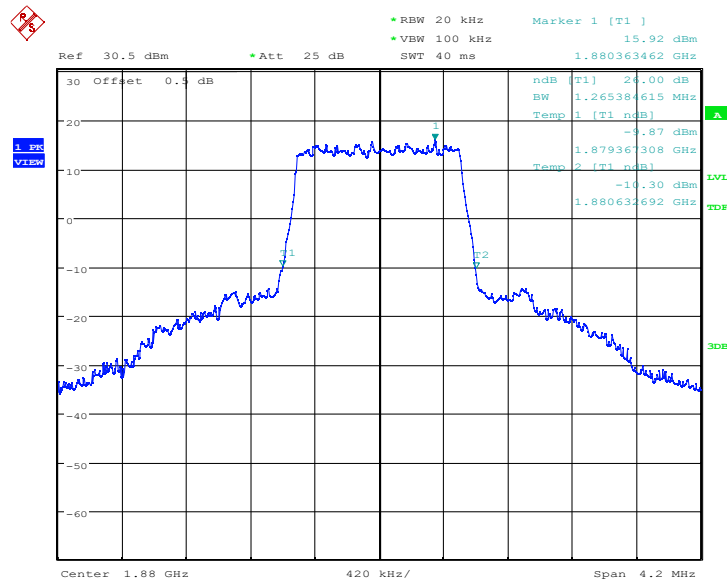


LTE band 2,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	1.265	1.272
LTE band 2 , 1.4MHz Bandwidth,QPSK (-26dBc BW)		

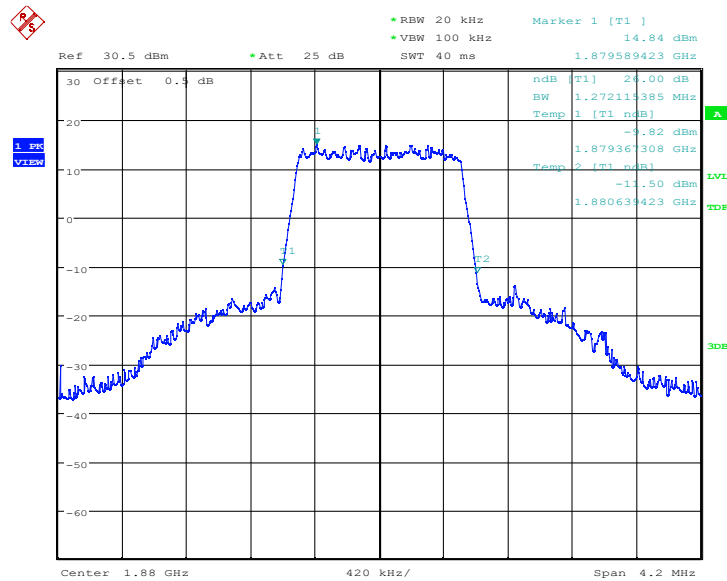
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Date: 6.JUL.2022 12:44:01

LTE band 2 , 1.4MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:44:25

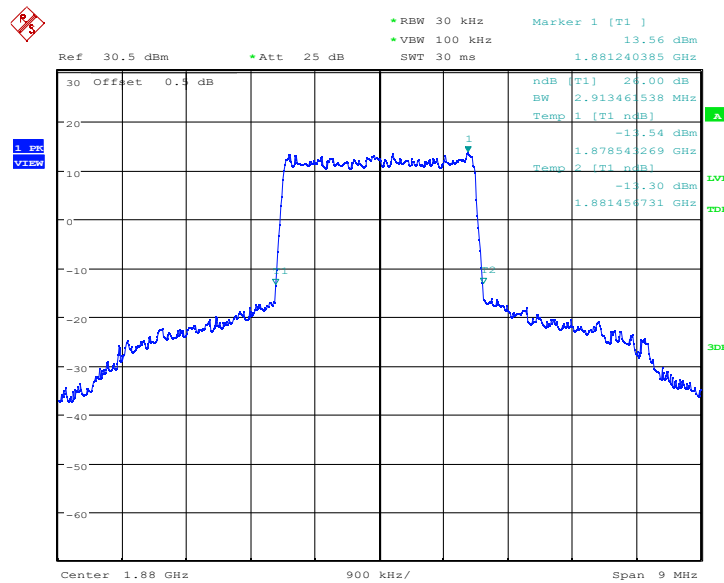
LTE band 2,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	2.913	2.928

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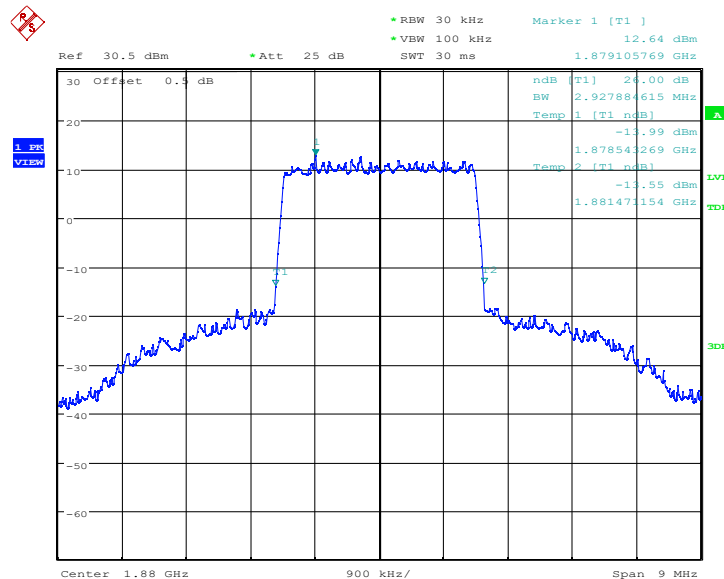
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 2 , 3MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 12:44:59

LTE band 2 , 3MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:45:30

LTE band 2,5MHz(-26dBc)

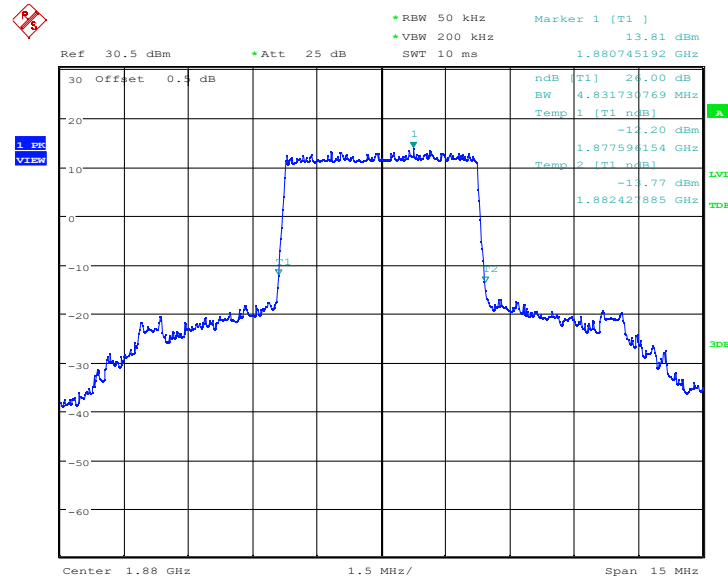
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
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Tel: 0086-23-88069965 FAX:0086-23-88608777

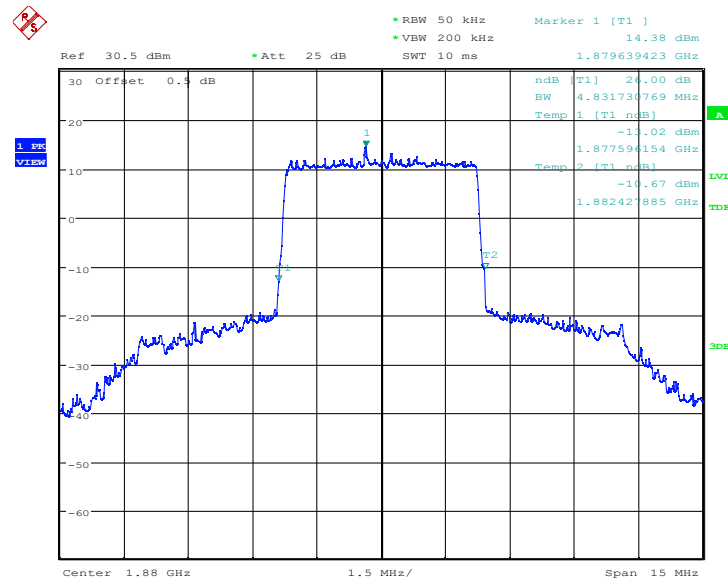
	QPSK	16QAM
1880	4.832	4.832

LTE band 2 , 5MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 12:46:15

LTE band 2 , 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:46:41

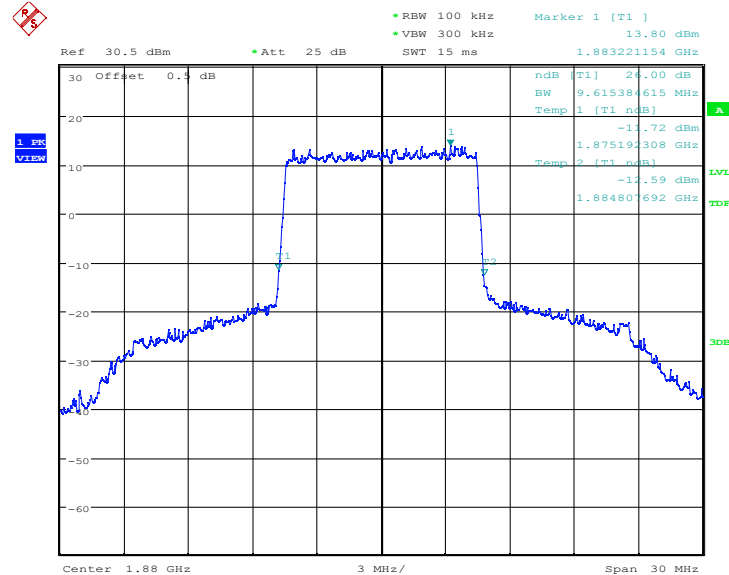
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LTE band 2,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	9.615	9.567

LTE band 2 , 10MHz Bandwidth,QPSK (-26dBc BW)

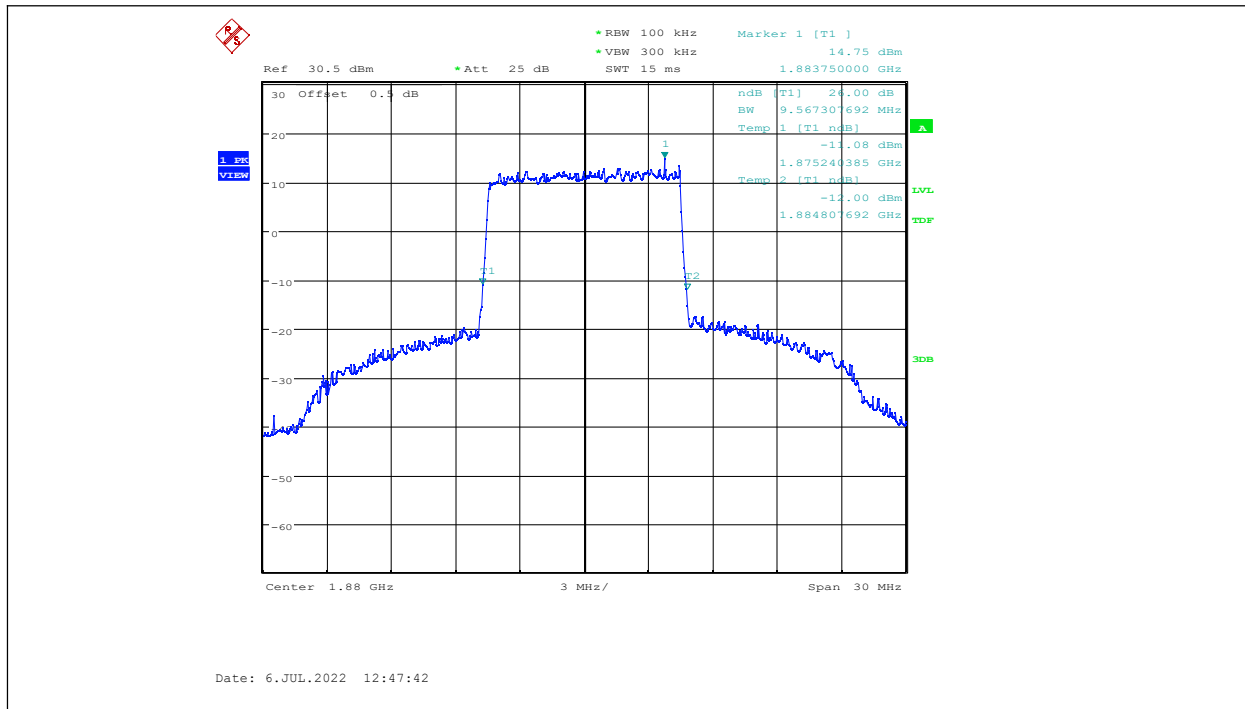


Date: 6.JUL.2022 12:47:09

LTE band 2 , 10MHz Bandwidth,16QAM (-26dBc BW)

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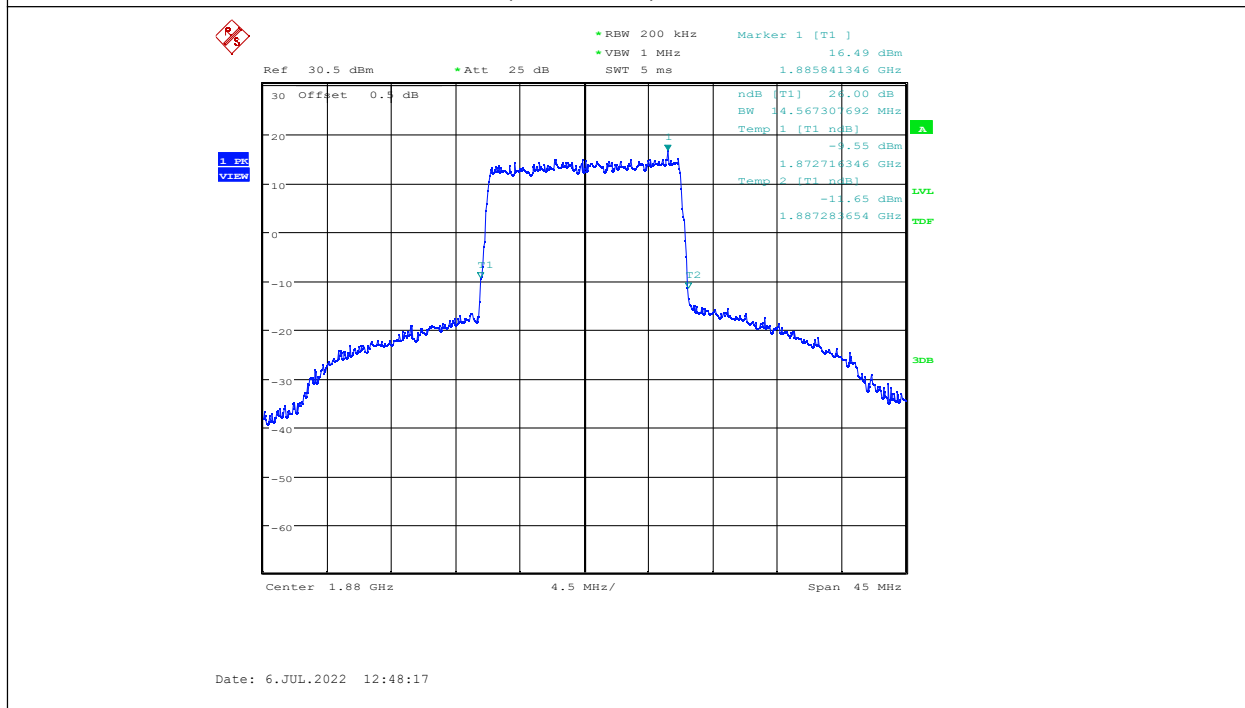
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Tel: 0086-23-88069965 FAX:0086-23-88608777



LTE band 2,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	14.567	14.423

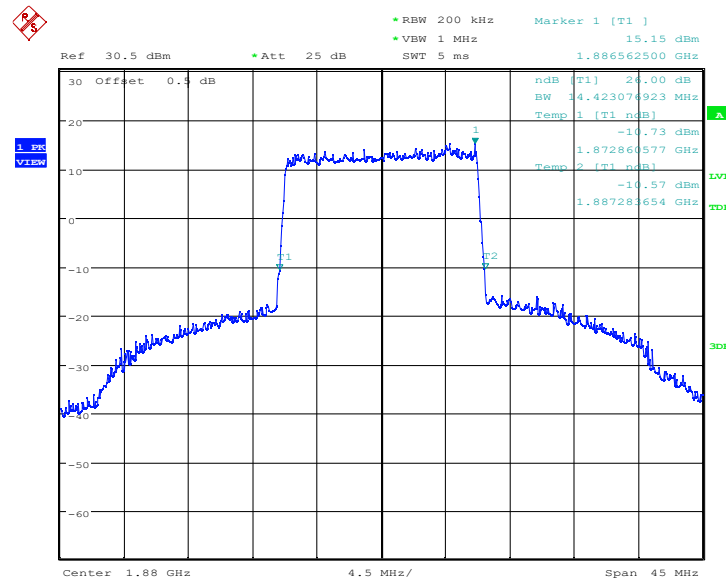
LTE band 2 , 15MHz Bandwidth,QPSK (-26dBc BW)



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LTE band 2 , 15MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:48:40

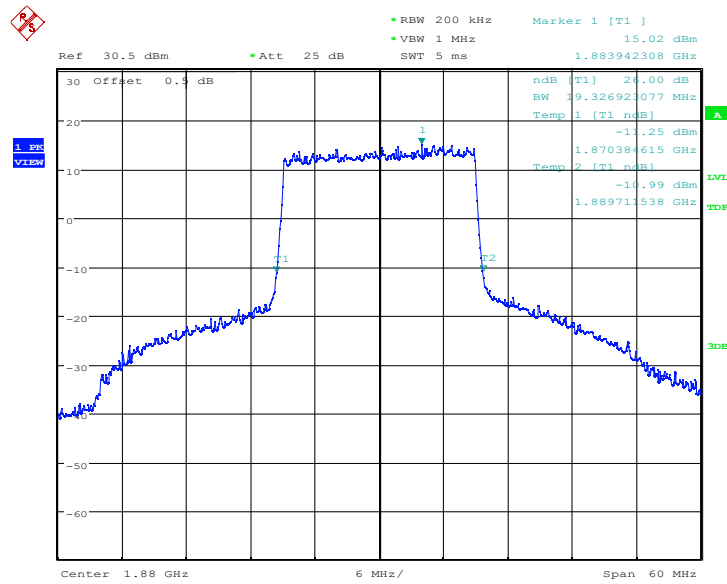
LTE band 2,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1880	19.327	19.423

LTE band 2 , 20MHz Bandwidth,QPSK (-26dBc BW)

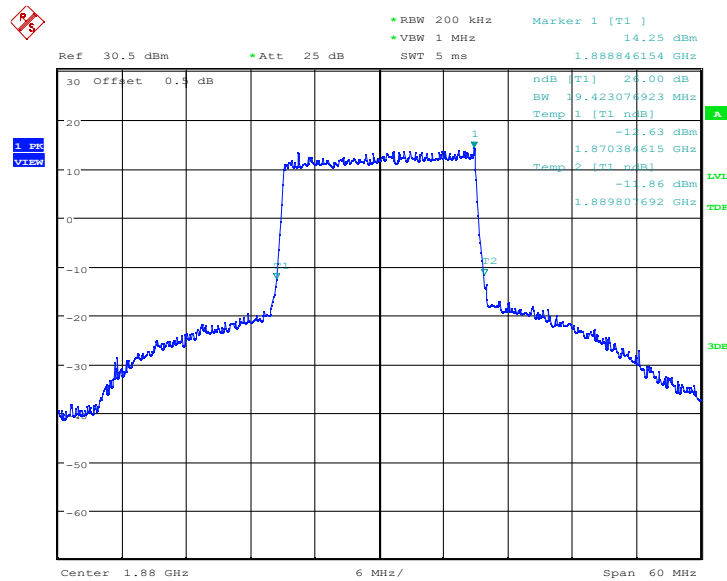
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Date: 6.JUL.2022 12:49:36

LTE band 2 , 20MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:49:58

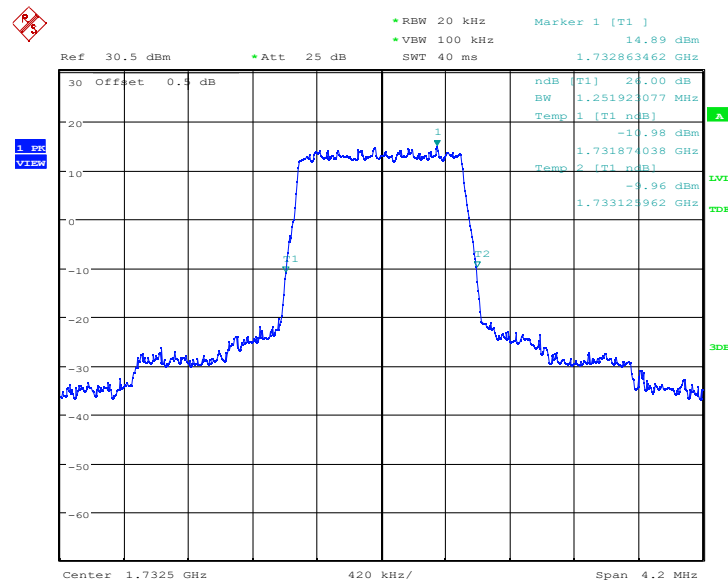
LTE band 4,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	1.252	1.265

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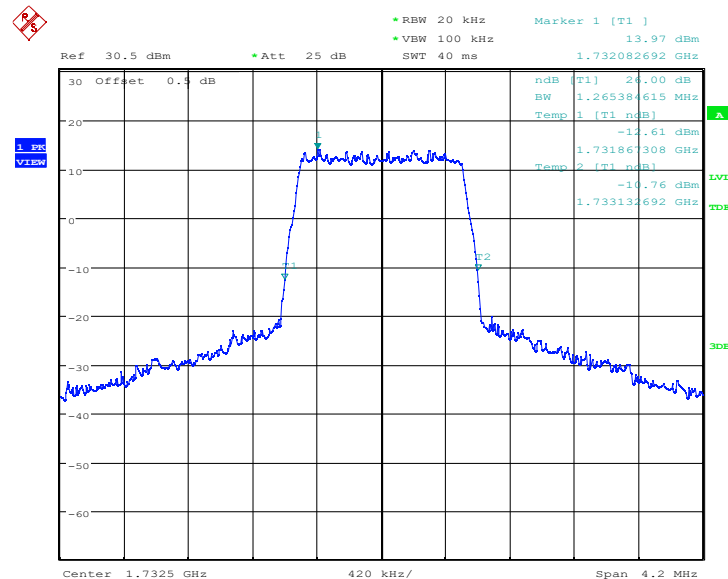
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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LTE band 4 , 1.4MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 12:50:35

LTE band 4 , 1.4MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:50:58

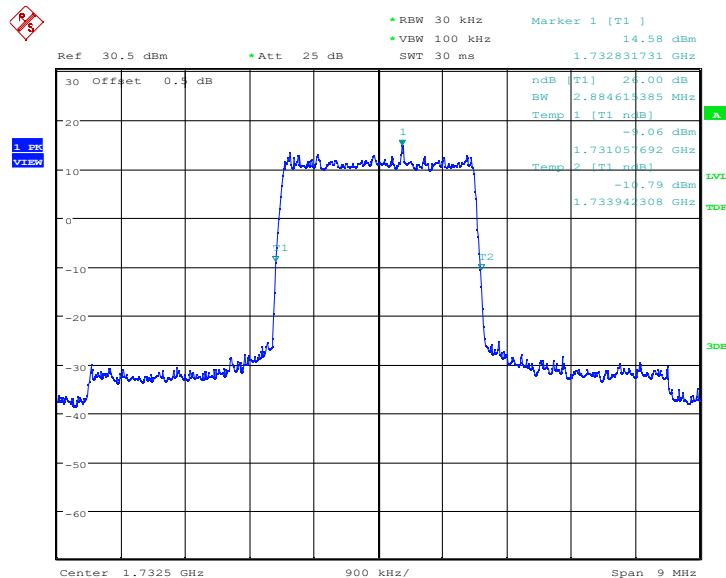
LTE band 4,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
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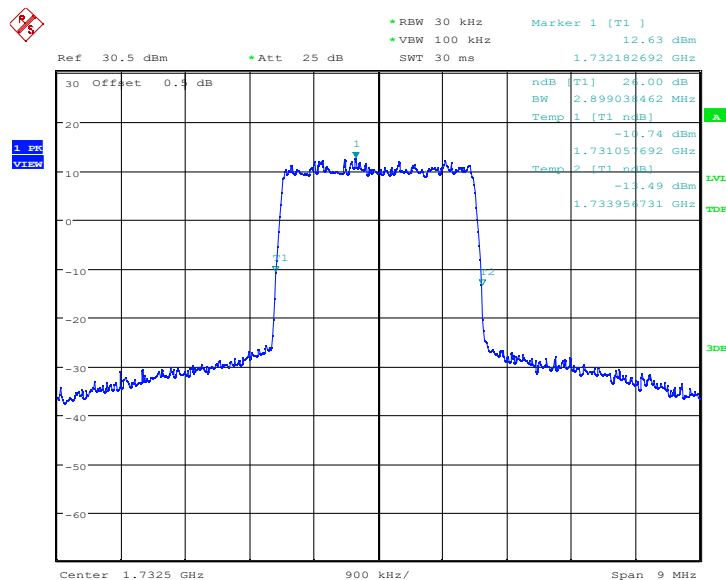
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	QPSK	16QAM
1732.5	2.885	2.899

LTE band 4 , 3MHz Bandwidth,QPSK (-26dBc BW)


Date: 6.JUL.2022 12:51:26

LTE band 4 , 3MHz Bandwidth,16QAM (-26dBc BW)


Date: 6.JUL.2022 12:51:49

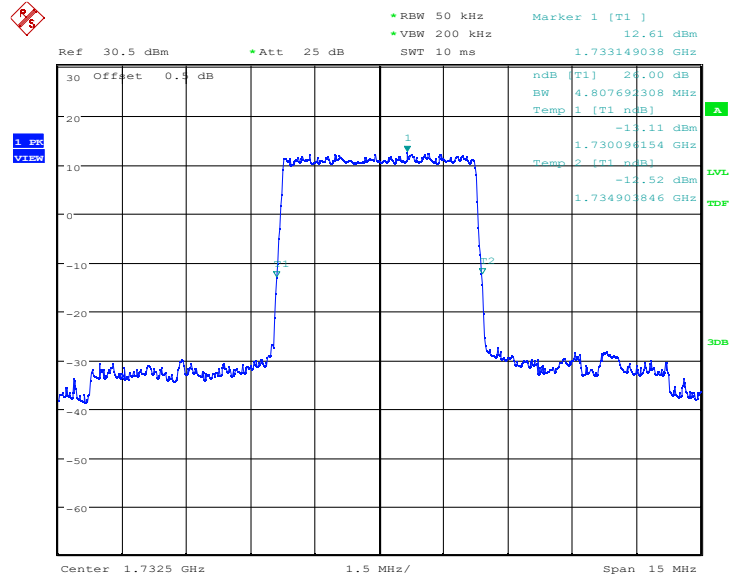
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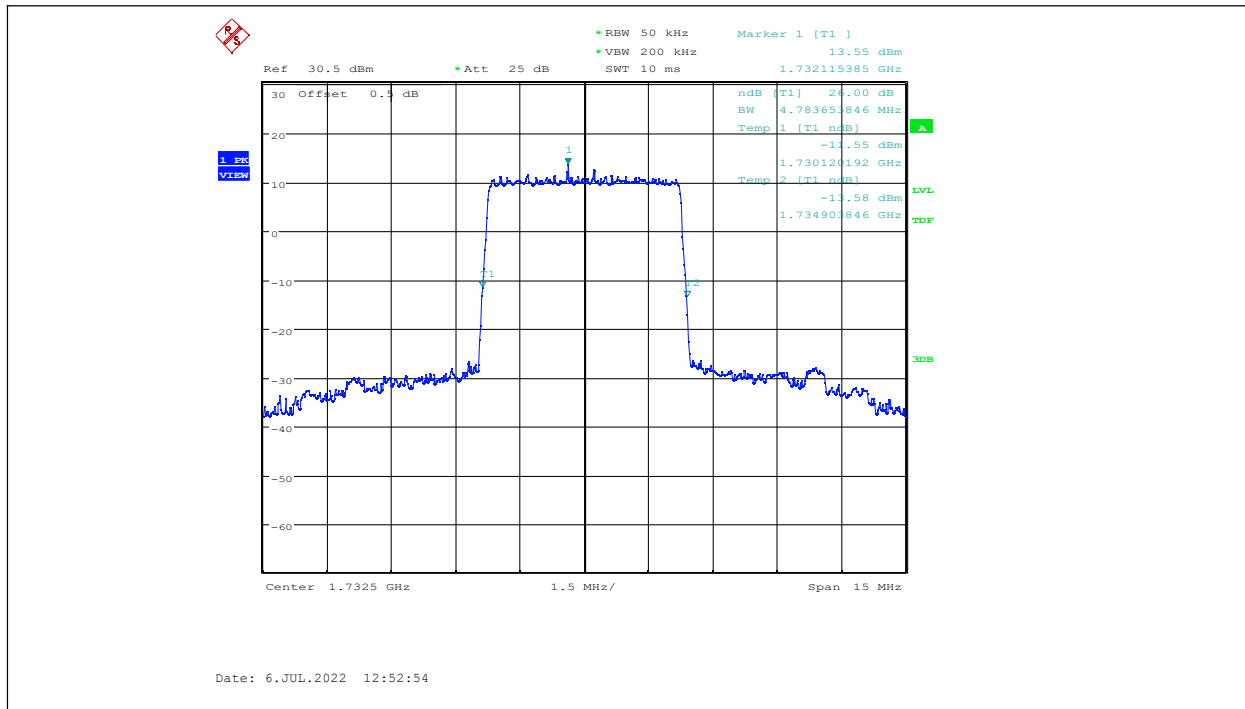
LTE band 4,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	4.808	4.784

LTE band 4 , 5MHz Bandwidth,QPSK (-26dB BW)



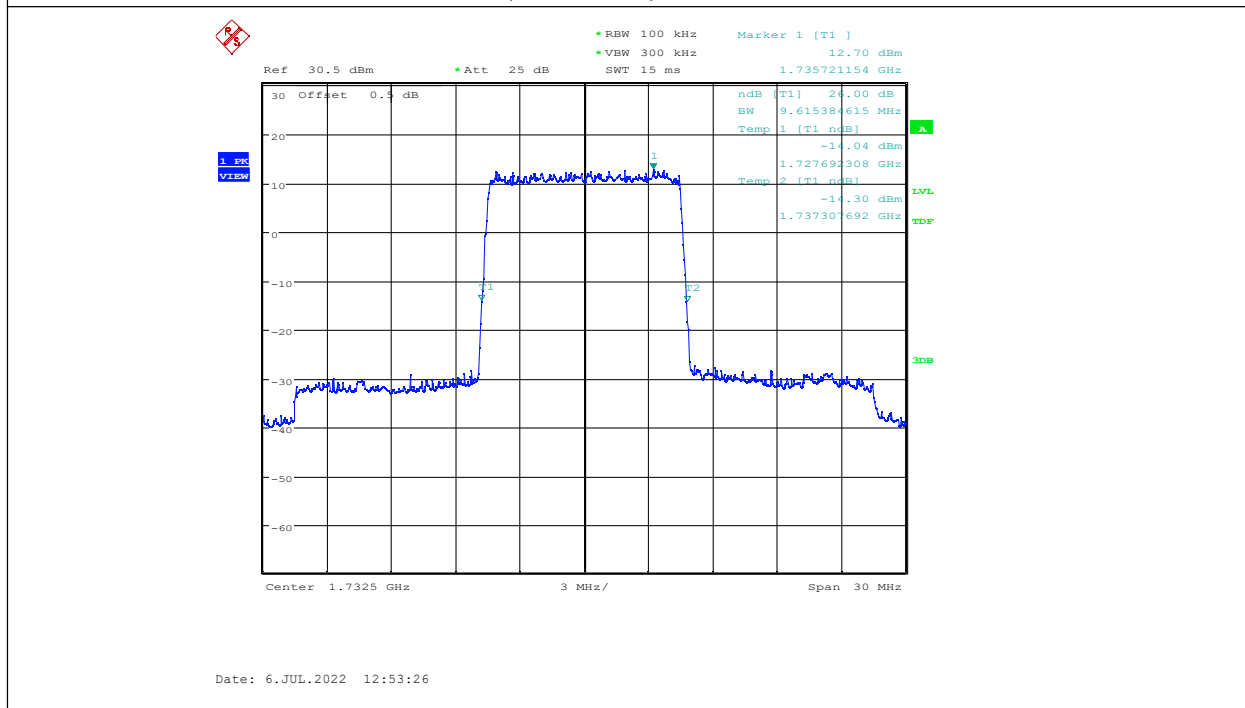
LTE band 4 , 5MHz Bandwidth,16QAM (-26dB BW)



LTE band 4,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	9.615	9.567

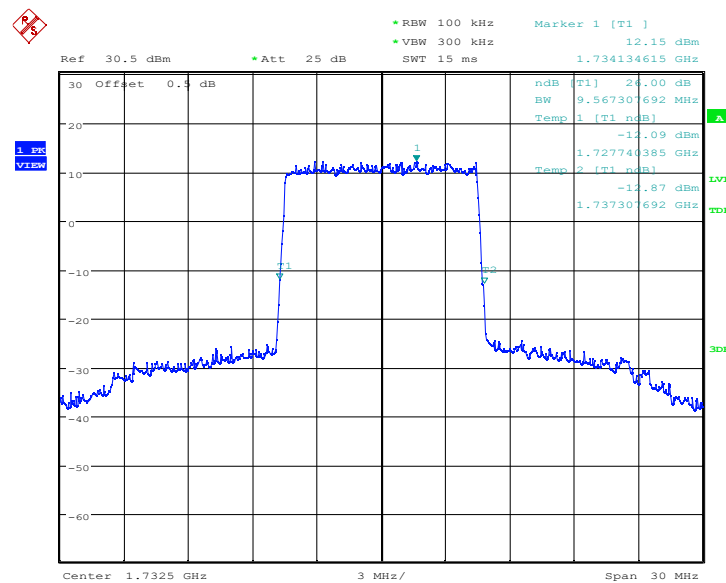
LTE band 4 , 10MHz Bandwidth,QPSK (-26dBc BW)



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LTE band 4 , 10MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:45:16

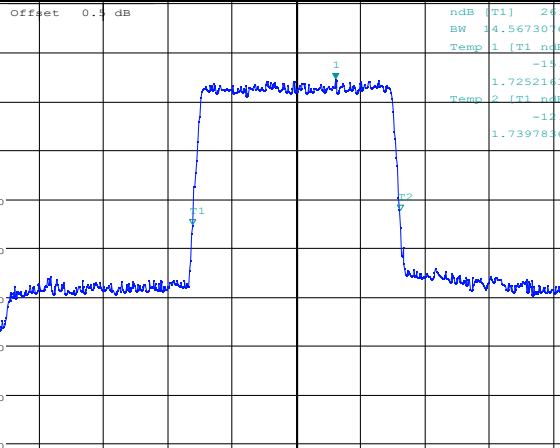
LTE band 4,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	14.567	14.495

LTE band 4 , 15MHz Bandwidth,QPSK (-26dBc BW)

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Ref 30.5 dBm * Att 25 dB * RBW 200 kHz * VBW 1 MHz Marker 1 [T1] 14.52 dBm
 SWT 5 ms 1.735240385 GHz

30 Offset 0.0 dB
 20
 10
 0
 -10
 -20
 -30
 -40
 -50
 -60

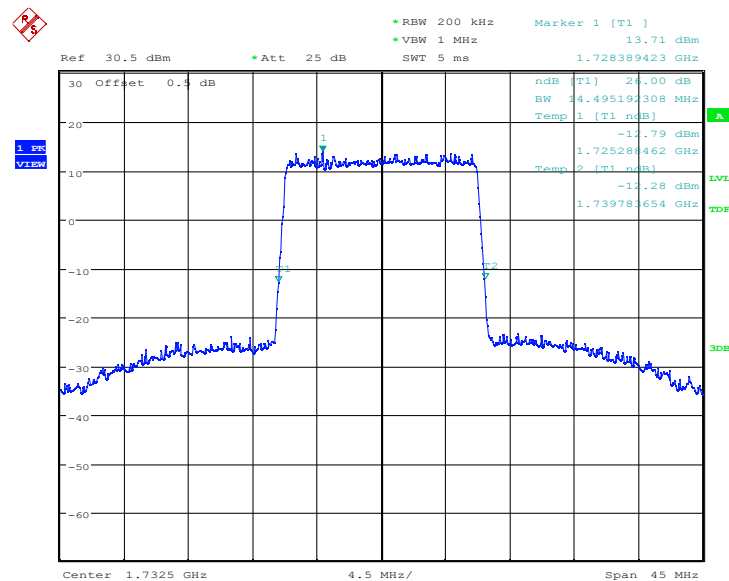
1 dBc
 VIEW

ndB [T1] 24.00 dB
 BW 14.567307692 MHz
 Temp 1 [T1 ndB] -15.46 dBm
 1.725216346 GHz
 Temp 2 [T1 ndB] -15.46 dBm
 1.739783654 GHz

T1
 T2

Center 1.7325 GHz 4.5 MHz/ Span 45 MHz

LTE band 4 , 15MHz Bandwidth,16QAM (-26dBc BW)

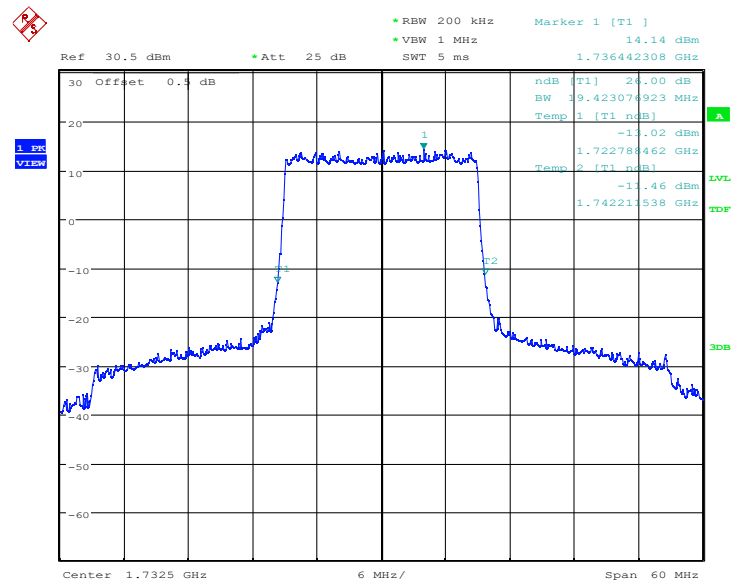


LTE band 4,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	19.423	19.519

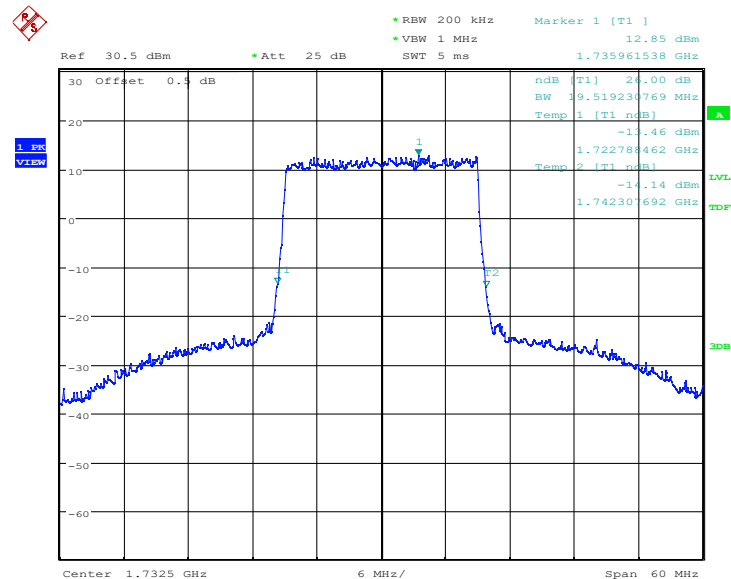
Page 123 of 271

LTE band 4 , 20MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 15:15:40

LTE band 4 , 20MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:55:53

LTE band 5,1.4MHz(-26dBc)

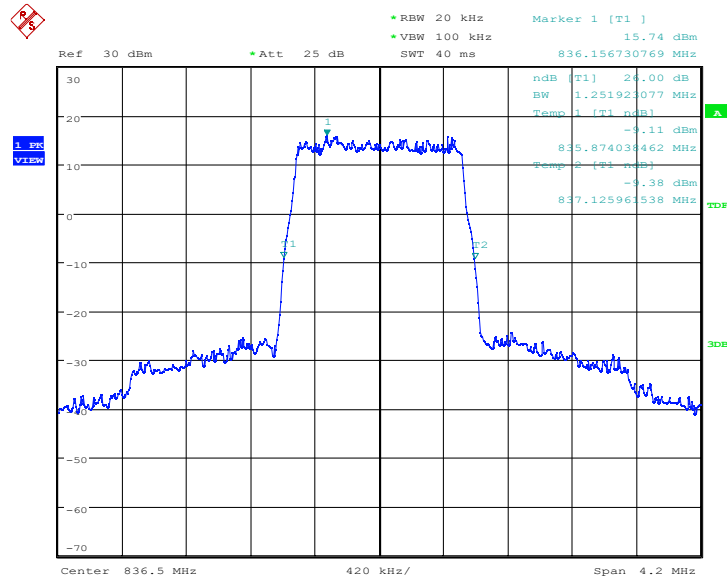
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
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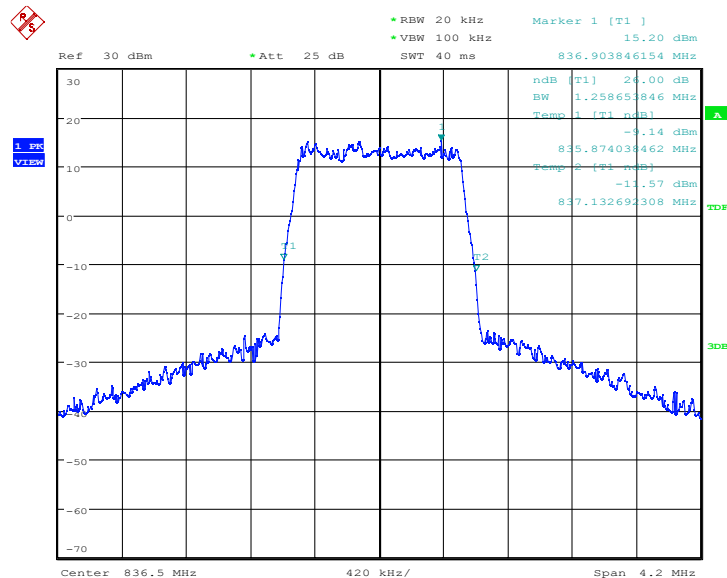
	QPSK	16QAM
836.5	1.252	1.259

LTE band 5 , 1.4MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 12:56:47

LTE band 5 , 1.4MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 12:57:08

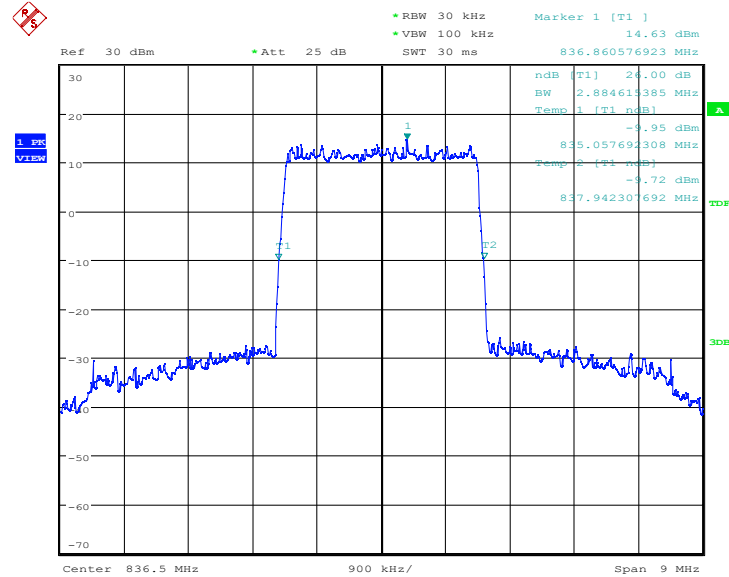
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LTE band 5,3MHz(-26dBc)

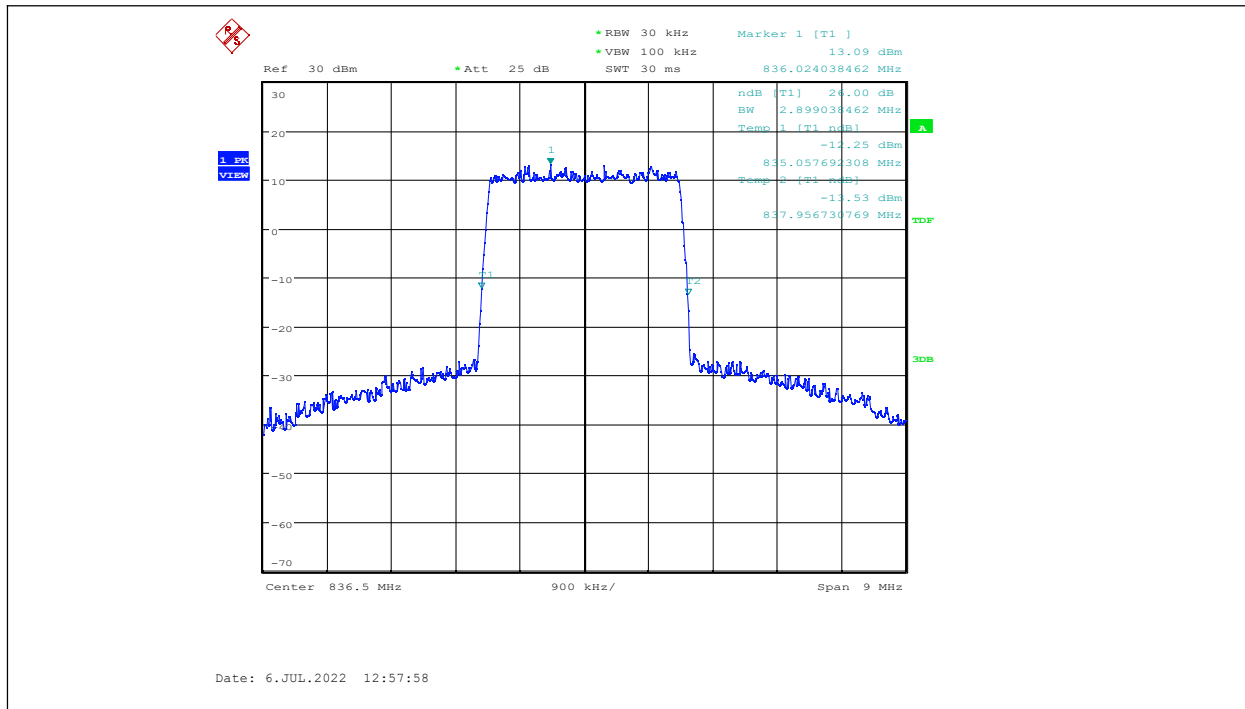
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	2.885	2.899

LTE band 5 , 3MHz Bandwidth,QPSK (-26dB BW)



Date: 6.JUL.2022 12:57:36

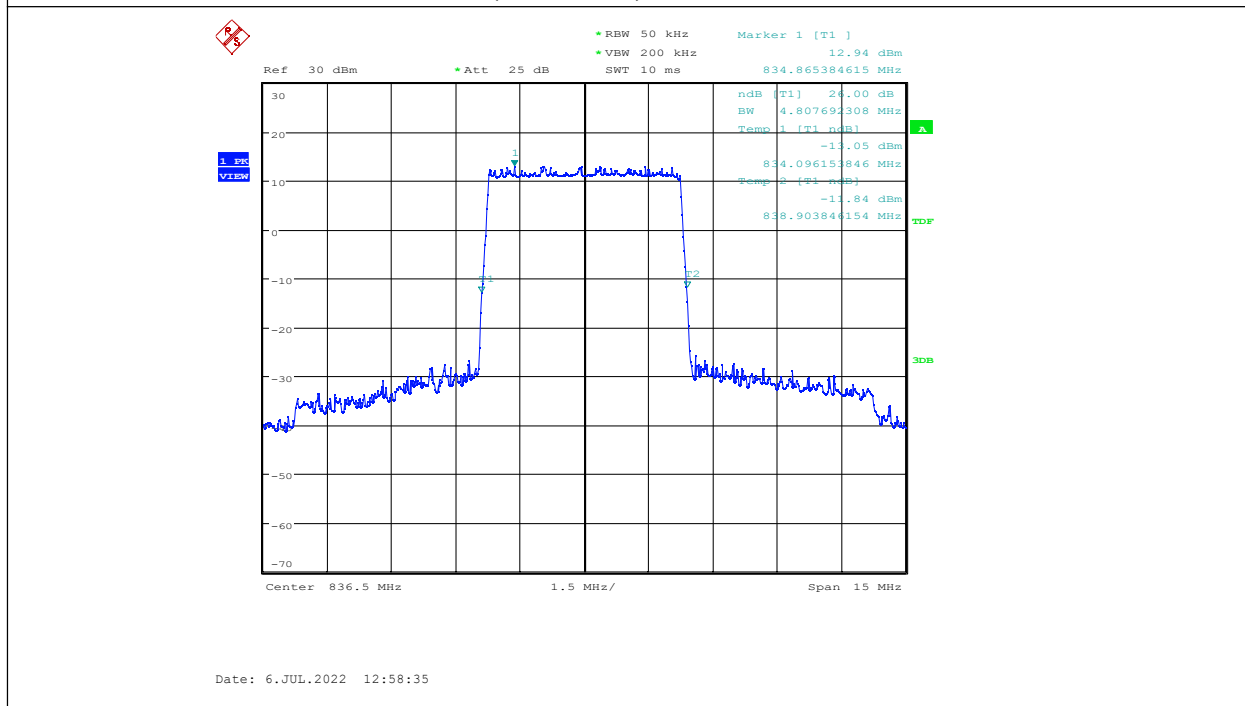
LTE band 5 , 3MHz Bandwidth,16QAM (-26dB BW)



LTE band 5,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	4.808	4.808

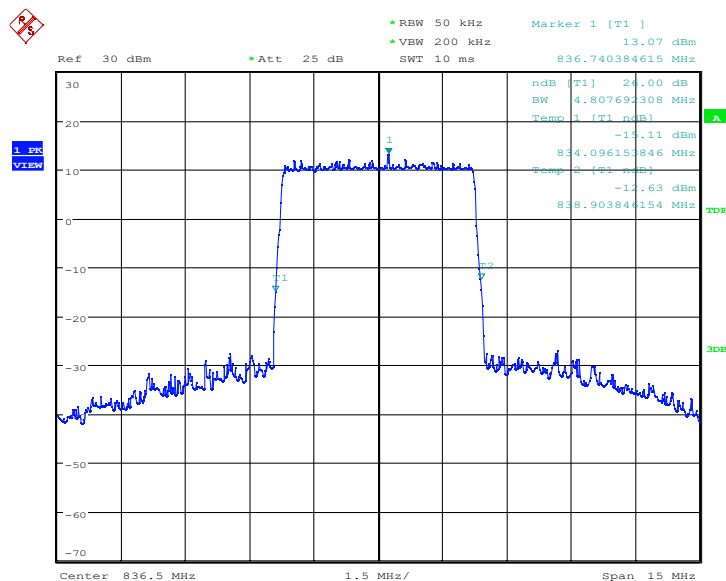
LTE band 5 , 5MHz Bandwidth,QPSK (-26dBc BW)



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LTE band 5 , 5MHz Bandwidth,16QAM (-26dB BW)



Date: 6.JUL.2022 12:58:59

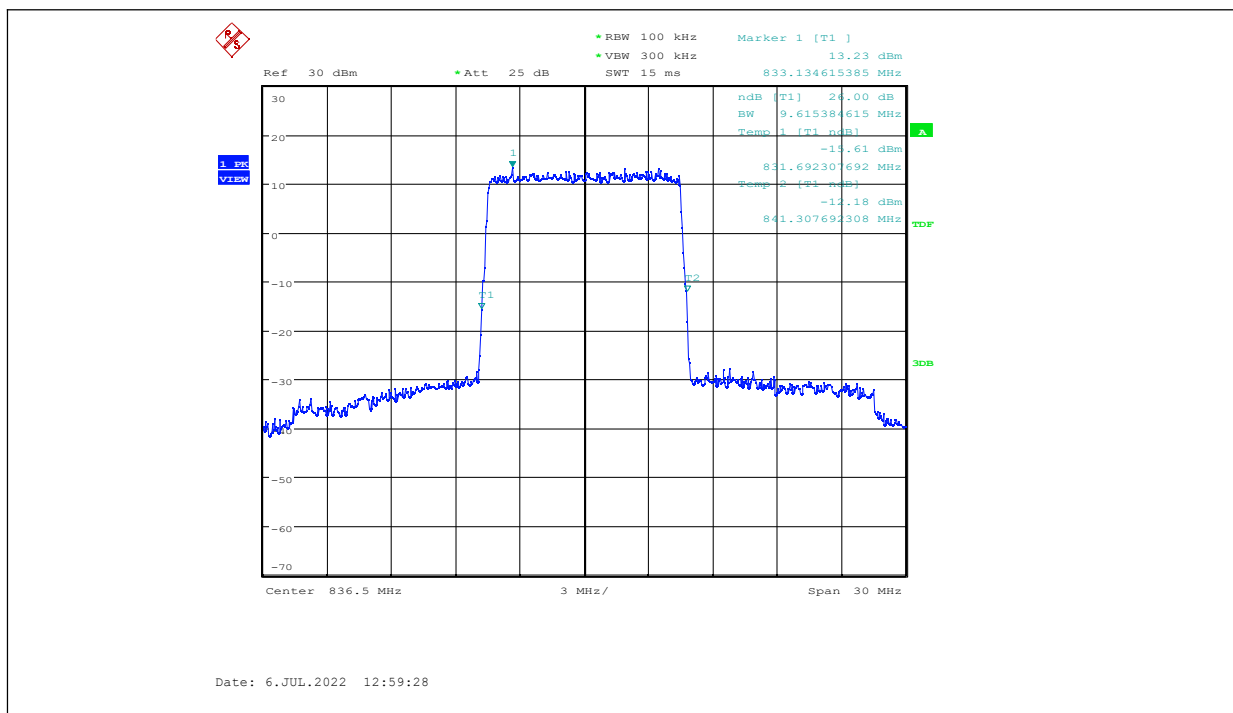
LTE band 5,10MHz(-26dB)

Frequency(MHz)	Emission Bandwidth (-26dB)(MHz)	
	QPSK	16QAM
836.5	9.615	9.519

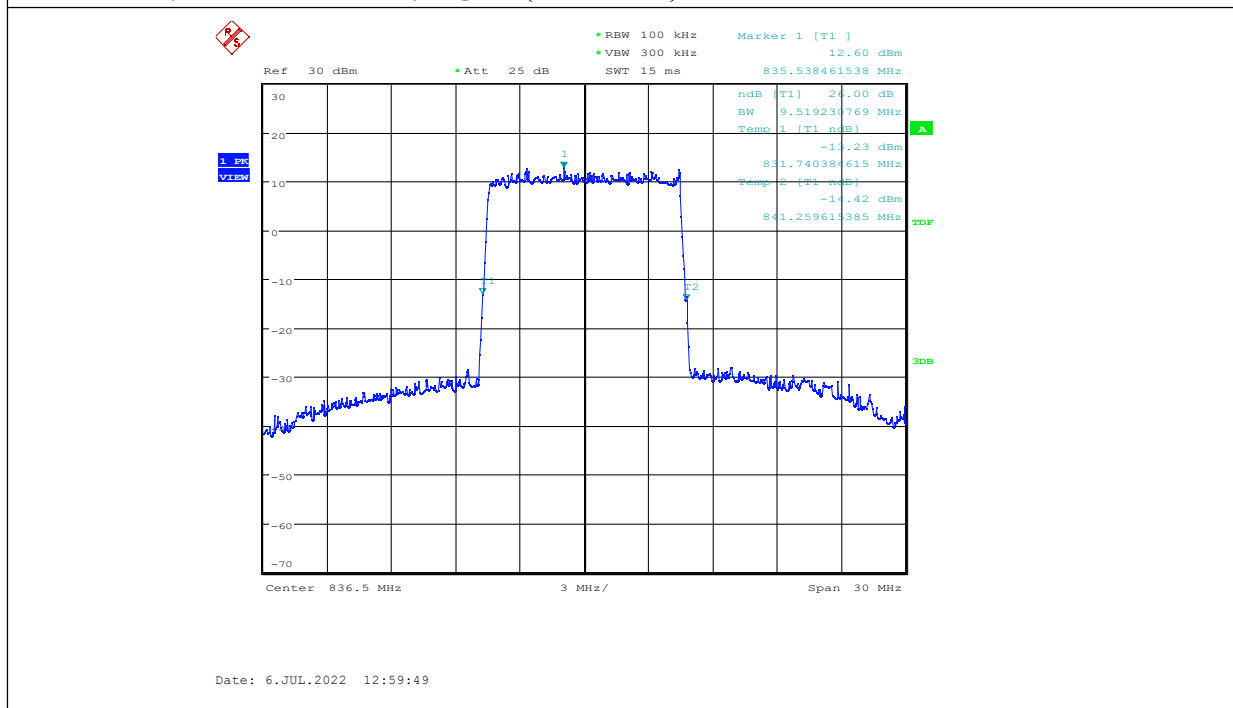
LTE band 5 , 10MHz Bandwidth,QPSK (-26dB BW)

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LTE band 5 , 10MHz Bandwidth,16QAM (-26dBc BW)



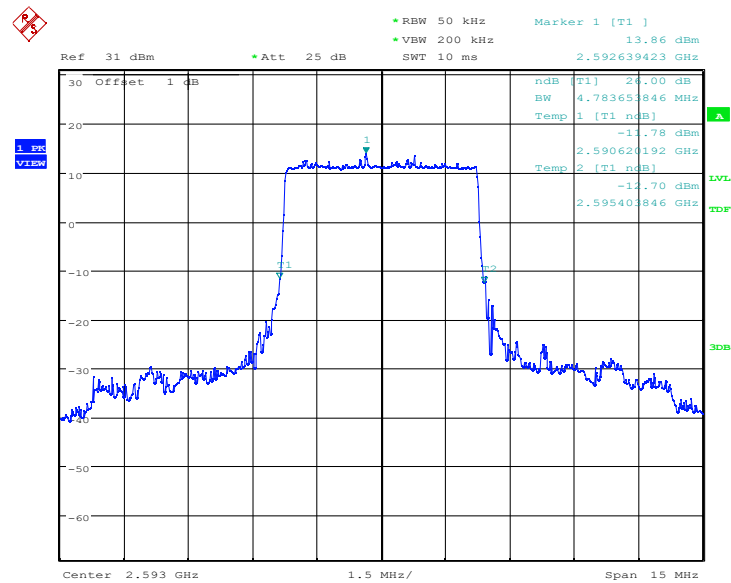
LTE band 41,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	4.784	4.784

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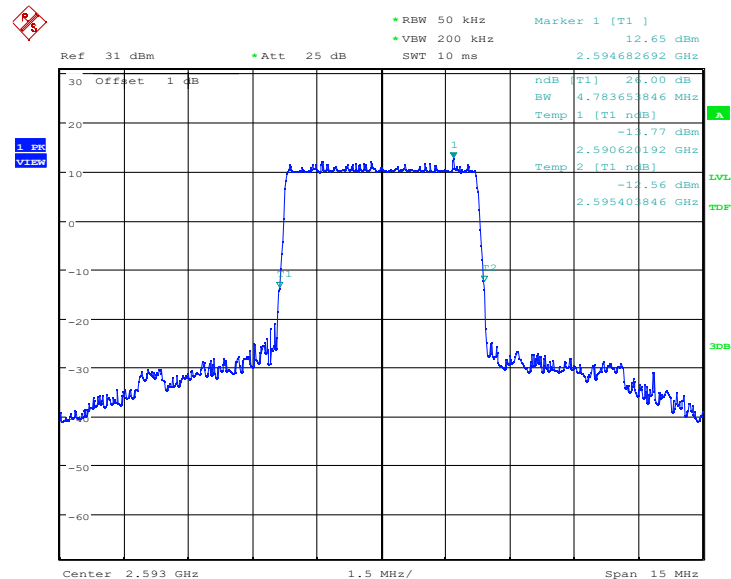
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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LTE band 41 , 5MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 13:00:33

LTE band 41 , 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:00:56

LTE band 41,10MHz(-26dBc)

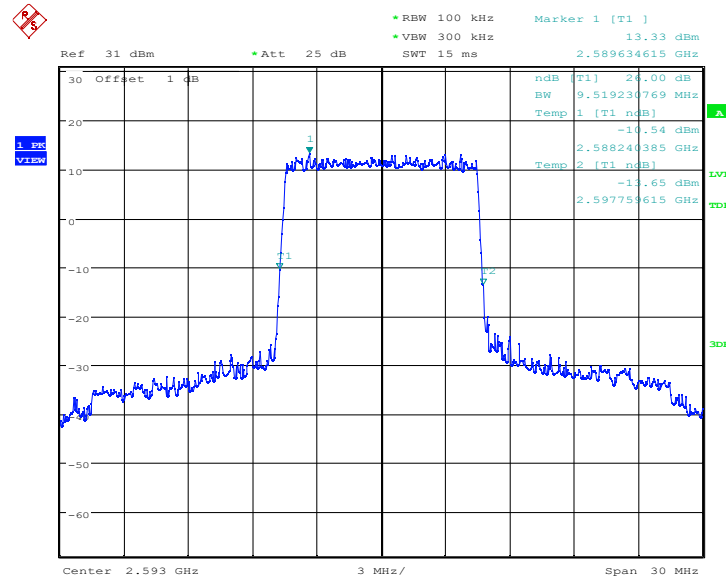
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
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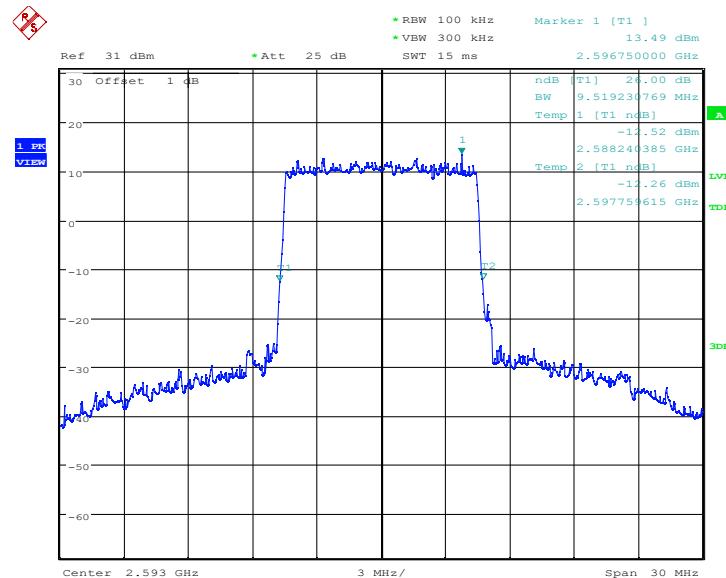
	QPSK	16QAM
2593	9.519	9.519

LTE band 41 , 10MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 13:01:23

LTE band 41 , 10MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:01:48

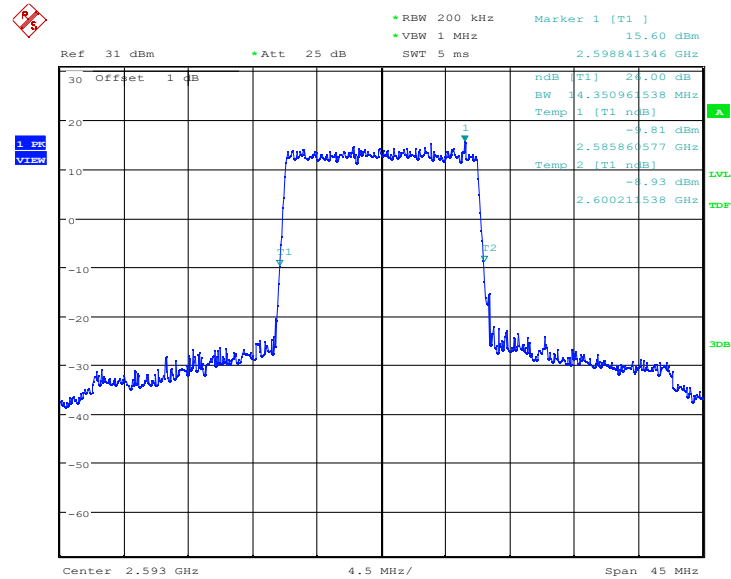
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 41,15MHz(-26dBc)

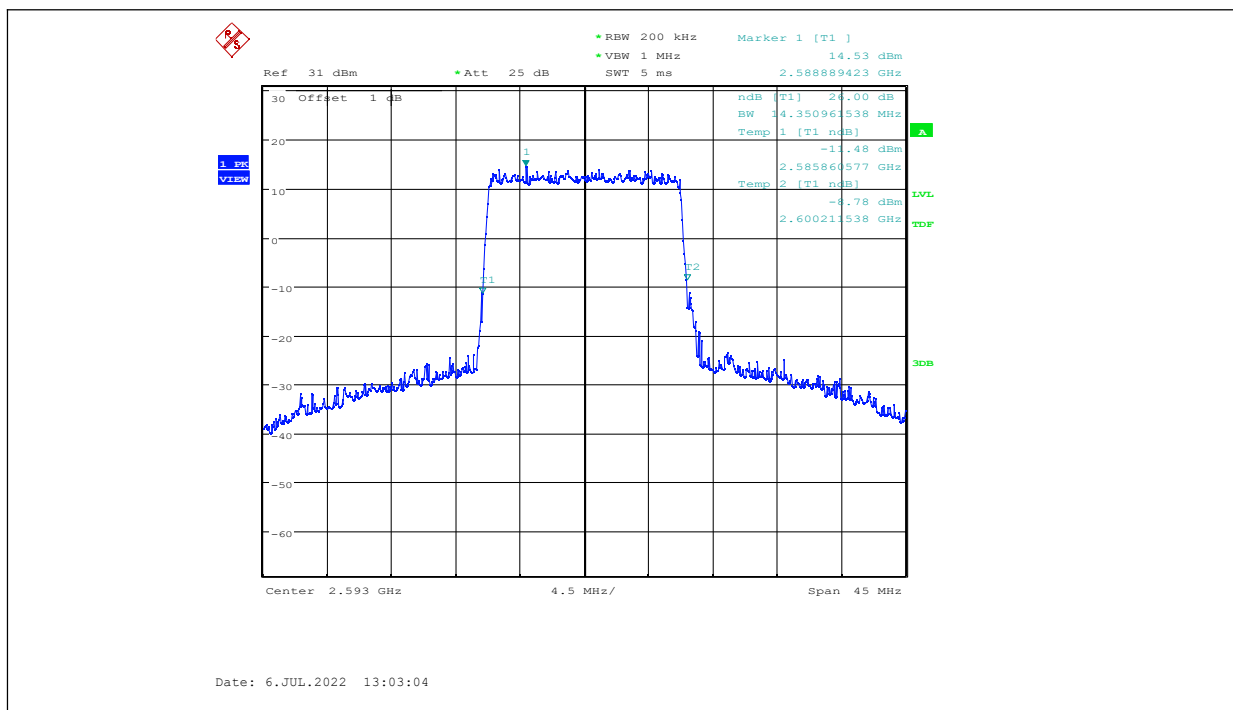
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	14.351	14.351

LTE band 41 , 15MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 13:02:40

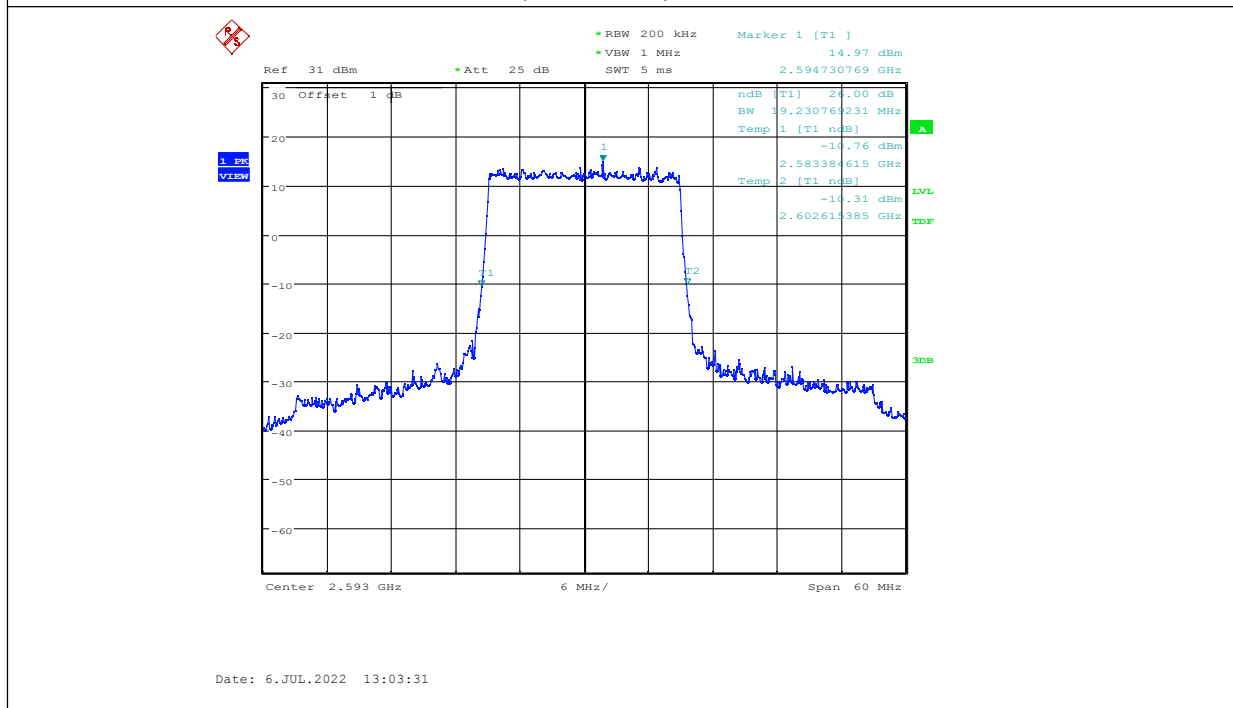
LTE band 41 , 15MHz Bandwidth,16QAM (-26dBc BW)



LTE band 41,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	19.231	19.423

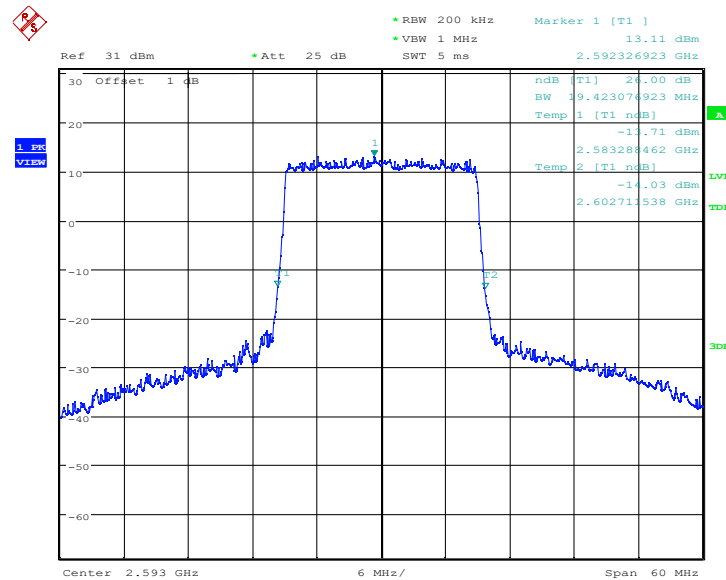
LTE band 41 , 20MHz Bandwidth,QPSK (-26dBc BW)



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LTE band 41 , 20MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:03:54

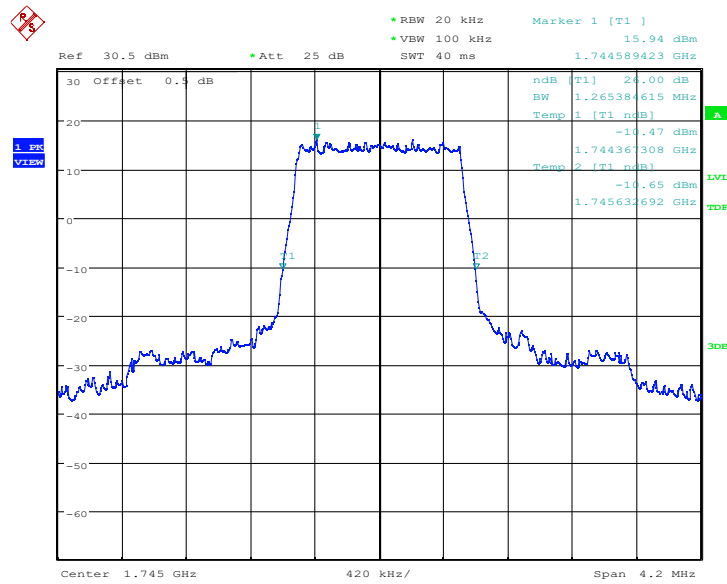
LTE band 66,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	1.265	1.265

LTE band 66 , 1.4MHz Bandwidth,QPSK (-26dBc BW)

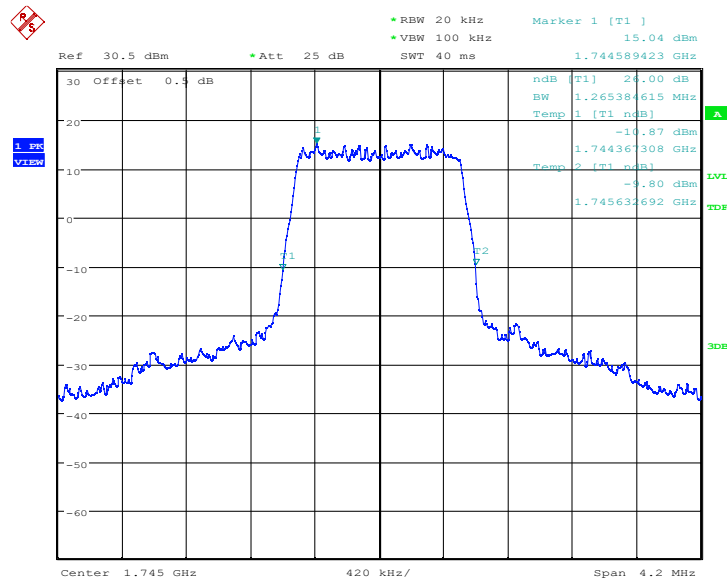
Chongqing Academy of Information and Communication Technology

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 Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 6.JUL.2022 13:50:37

LTE band 66 , 1.4MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:05:42

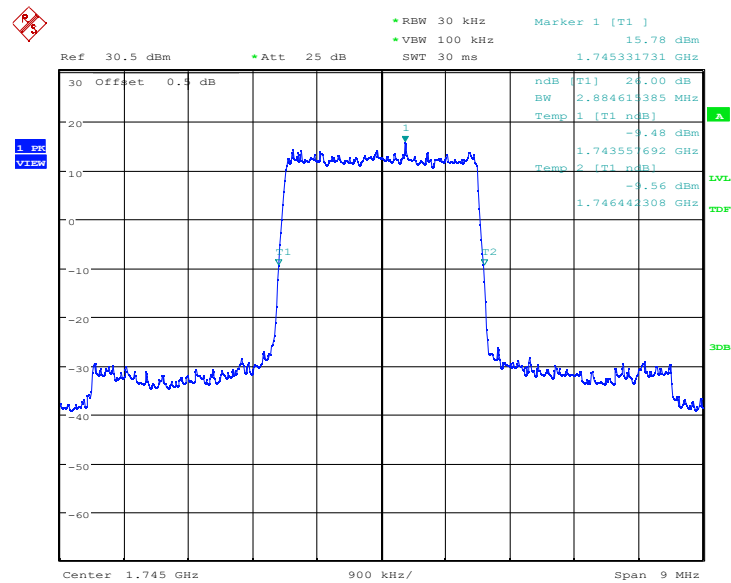
LTE band 66,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	2.885	2.899

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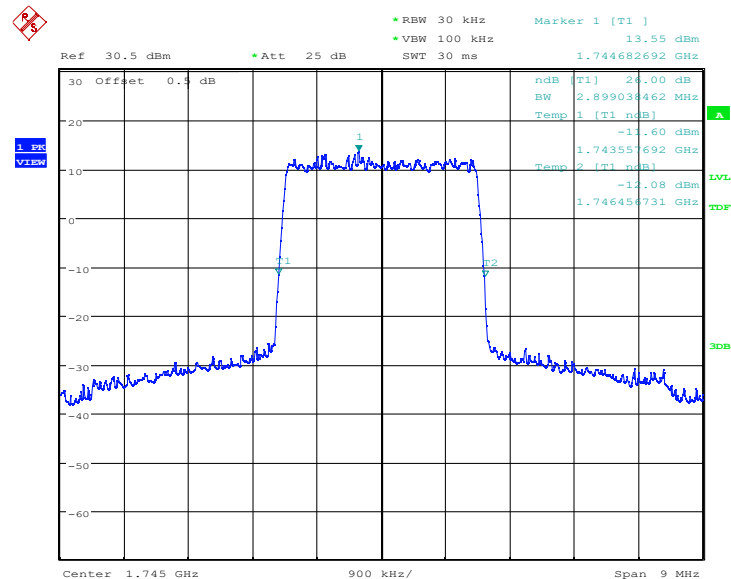
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LTE band 66 , 3MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 13:06:09

LTE band 66 , 3MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:06:34

LTE band 66,5MHz(-26dBc)

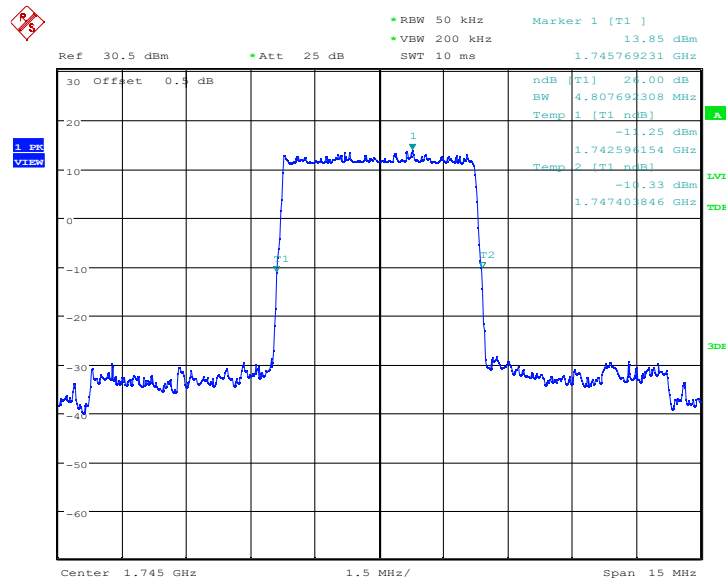
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
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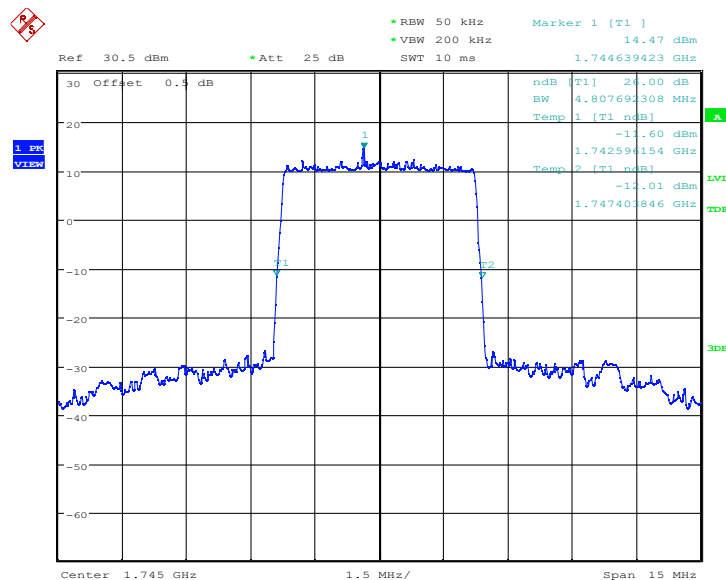
	QPSK	16QAM
1745	4.808	4.808

LTE band 66 , 5MHz Bandwidth,QPSK (-26dBc BW)



Date: 6.JUL.2022 13:07:14

LTE band 66 , 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:07:38

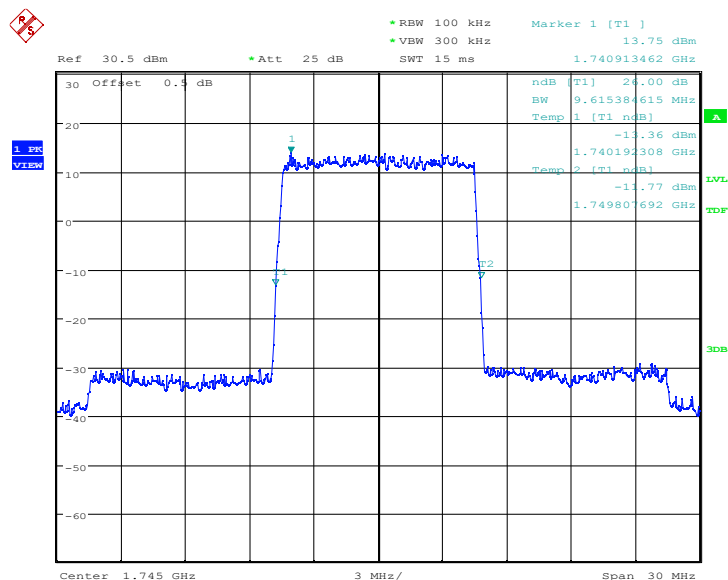
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LTE band 66,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	9.615	9.519

LTE band 66 , 10MHz Bandwidth,QPSK (-26dBc BW)

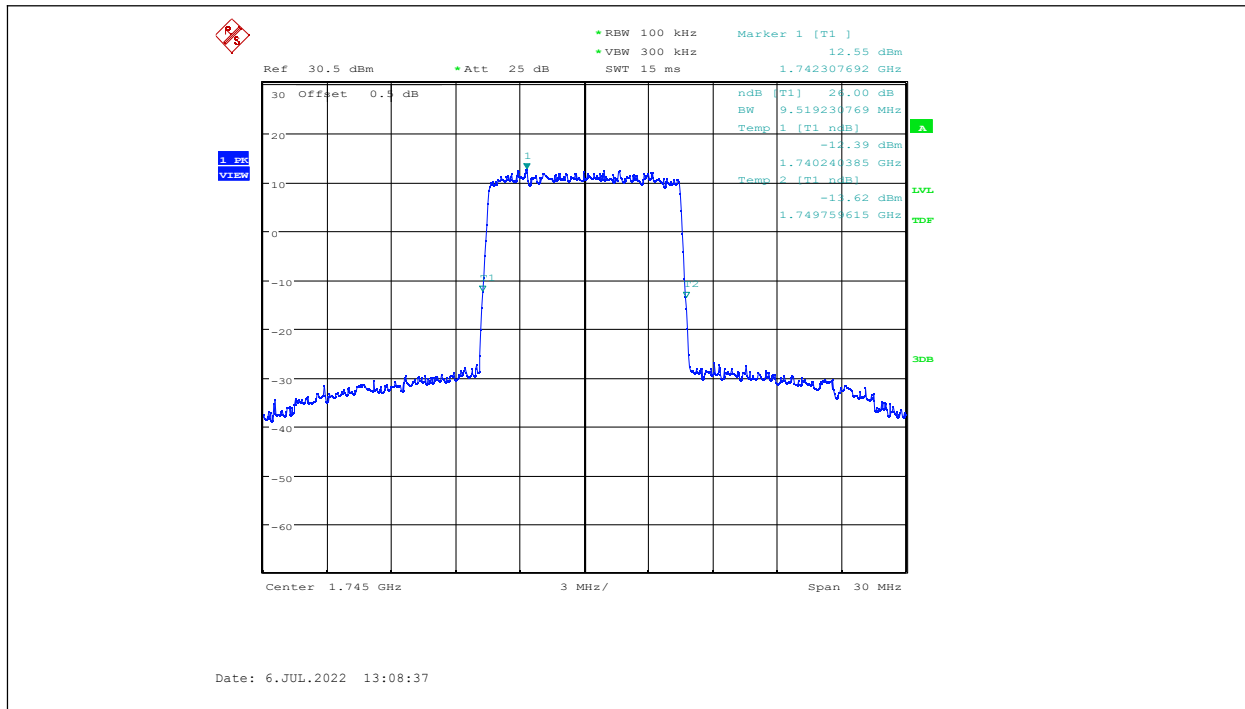


Date: 6.JUL.2022 13:08:14

LTE band 66 , 10MHz Bandwidth,16QAM (-26dBc BW)

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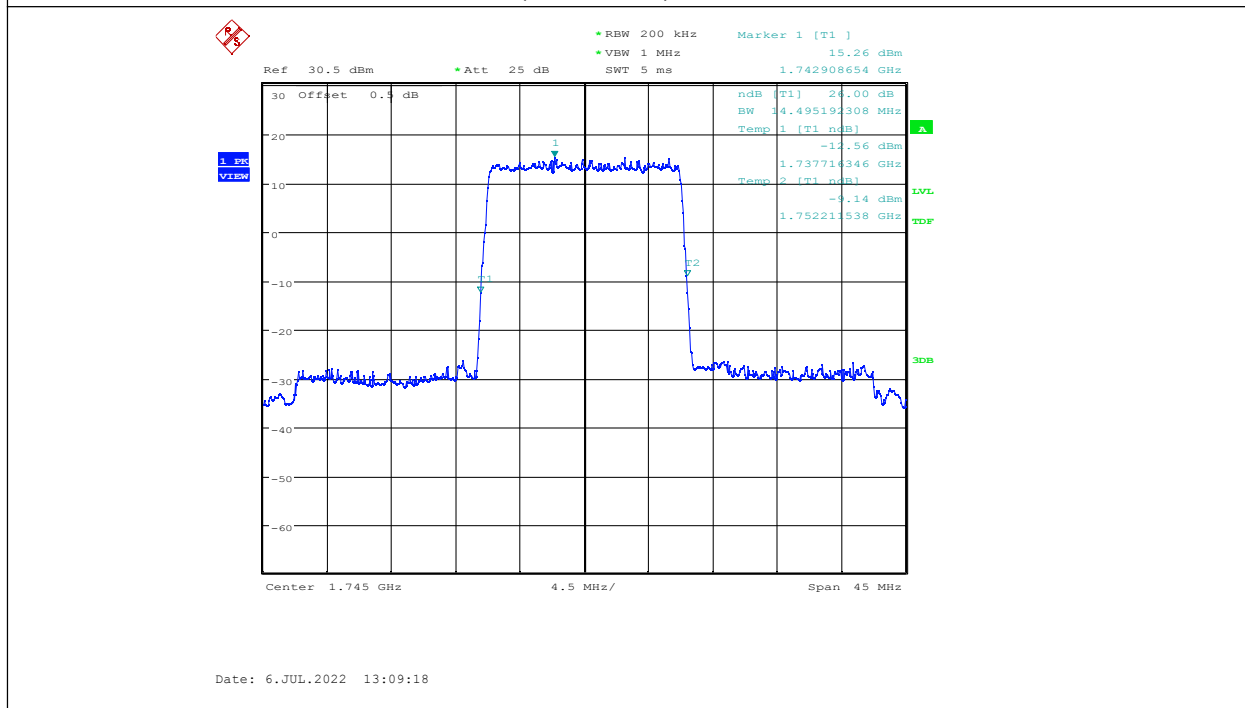
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LTE band 66,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	14.495	14.495

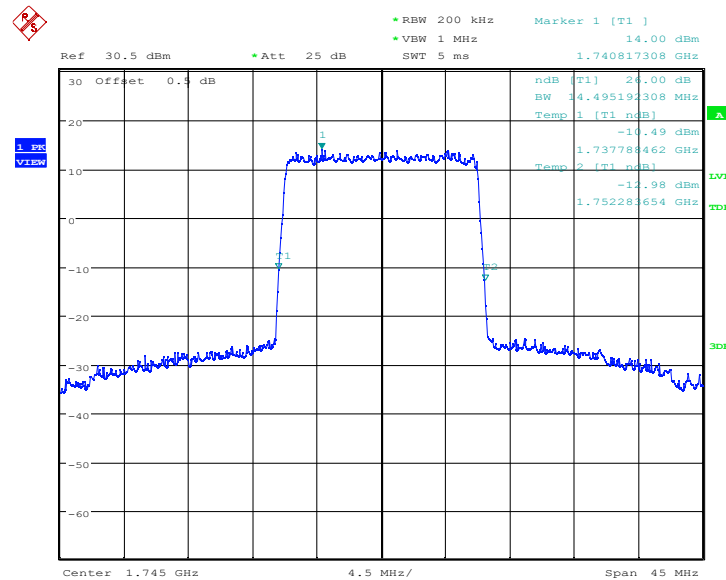
LTE band 66 , 15MHz Bandwidth,QPSK (-26dBc BW)



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LTE band 66 , 15MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:09:46

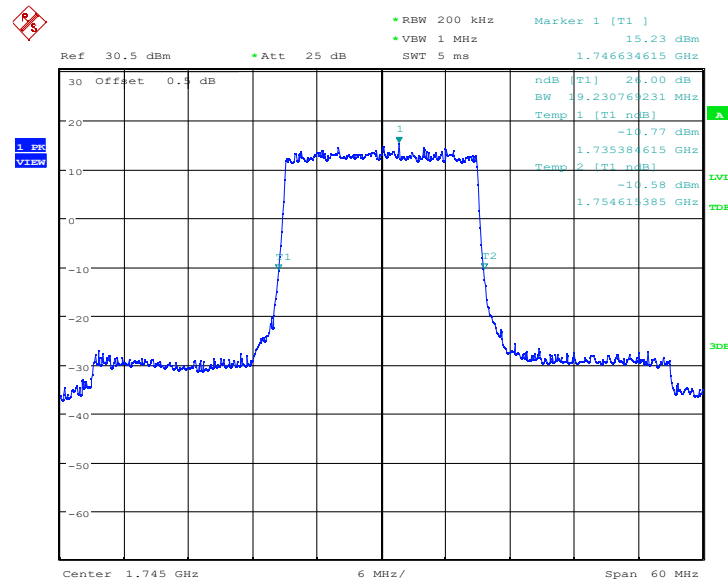
LTE band 66,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	19.231	19.423

LTE band 66 , 20MHz Bandwidth,QPSK (-26dBc BW)

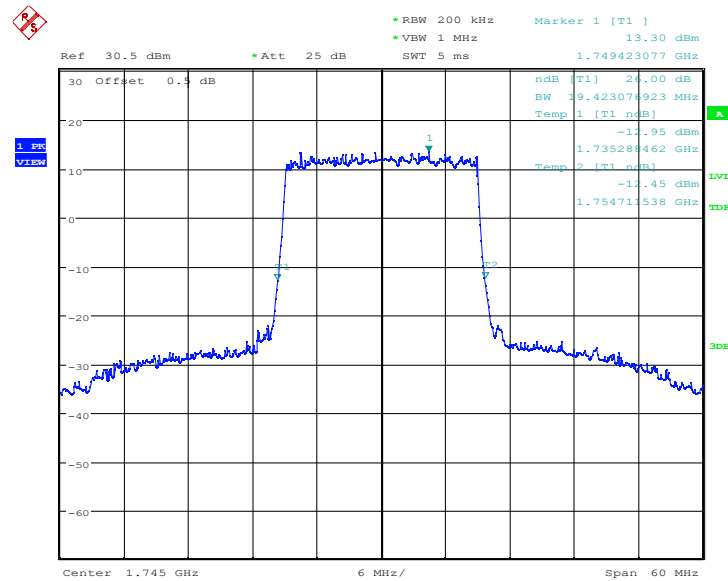
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Date: 6.JUL.2022 13:10:25

LTE band 66 , 20MHz Bandwidth,16QAM (-26dBc BW)



Date: 6.JUL.2022 13:51:04

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6.5. Conducted spurious emissions

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	862733060028209
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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.

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 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.

According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

According to Part 27.53(m):For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ 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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 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.

Measurement Uncertainty:

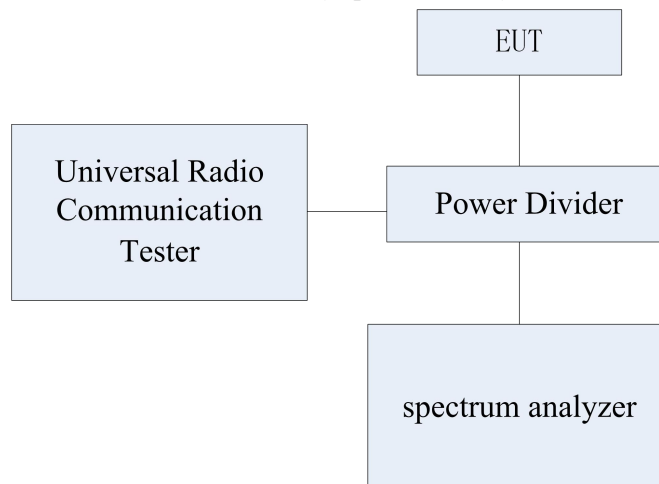
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Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB (k=2)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB (k=2)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

Note: The following test results are the worst case selected in each bandwidth of each frequency band

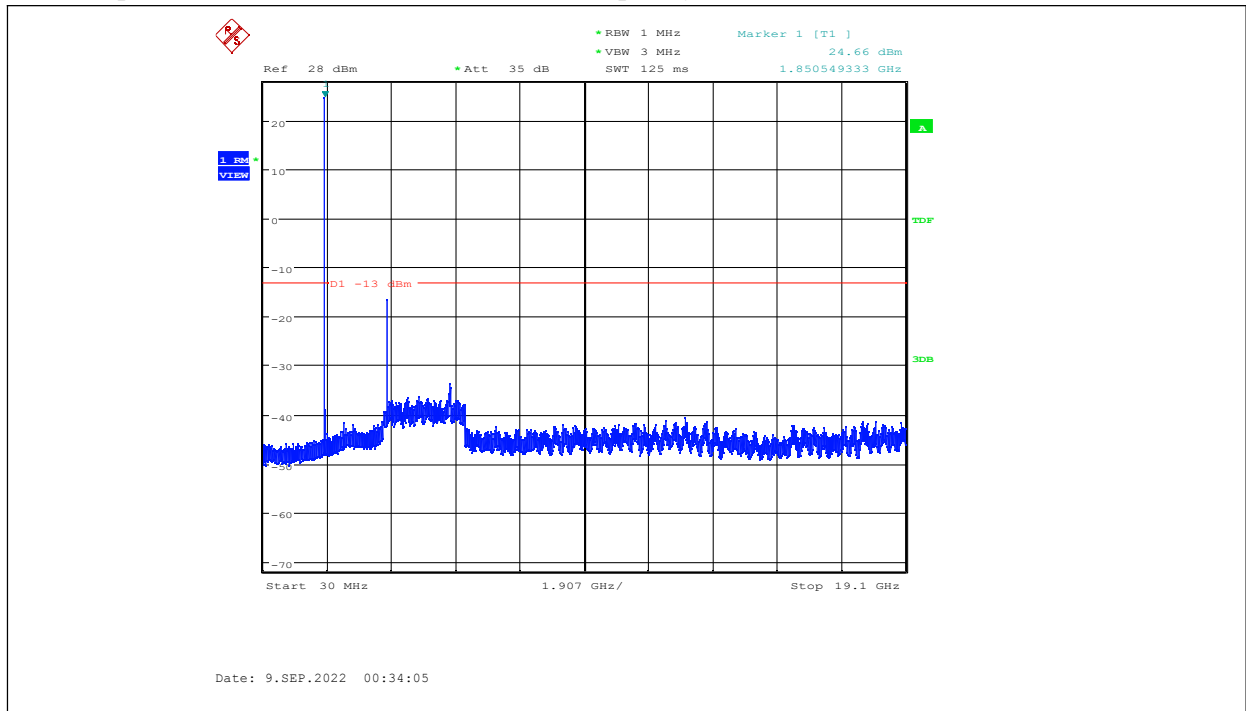
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6.5.1 Conducted Spurious Emission Results

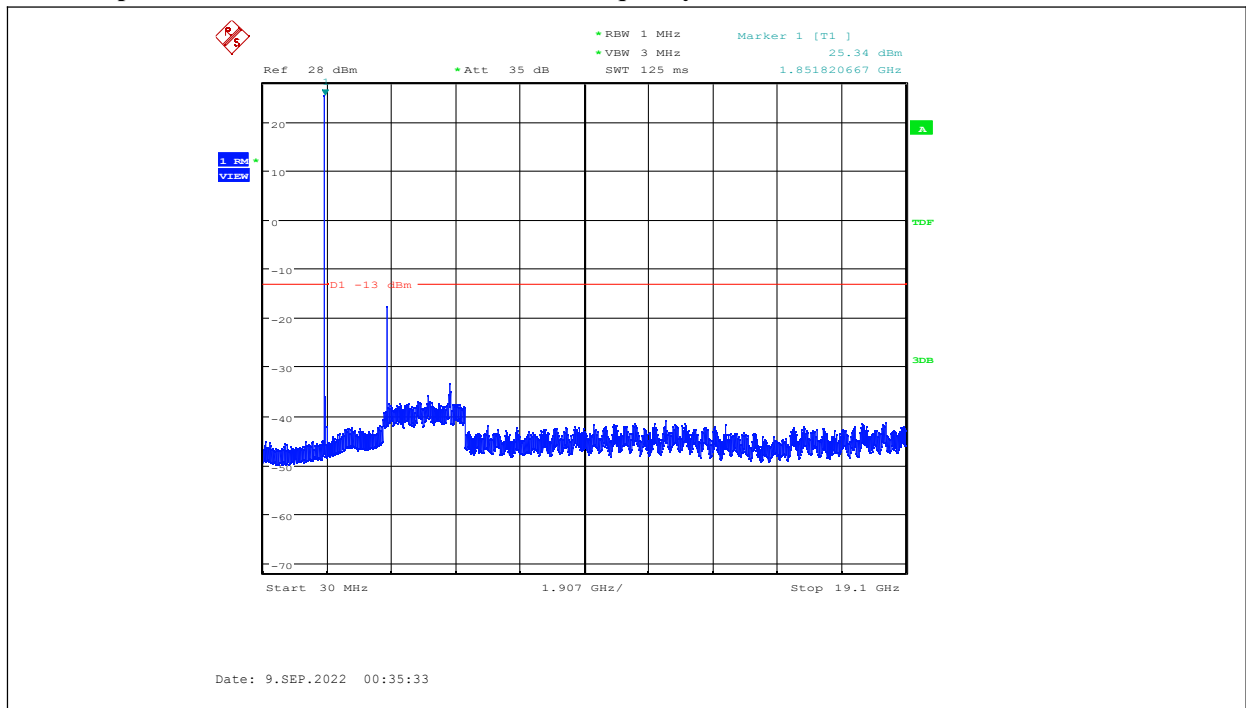
LTE band 2-1.4MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.



LTE band 2-3MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

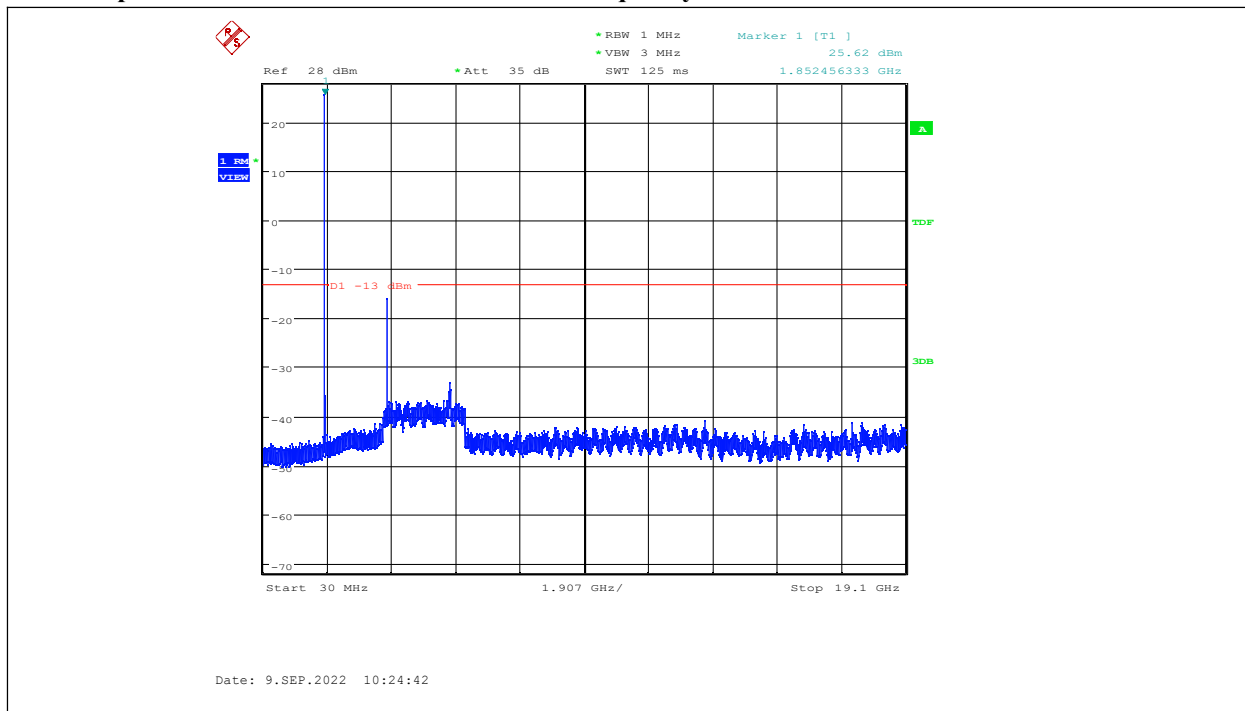


LTE band 2-5MHz-QPSK-Low

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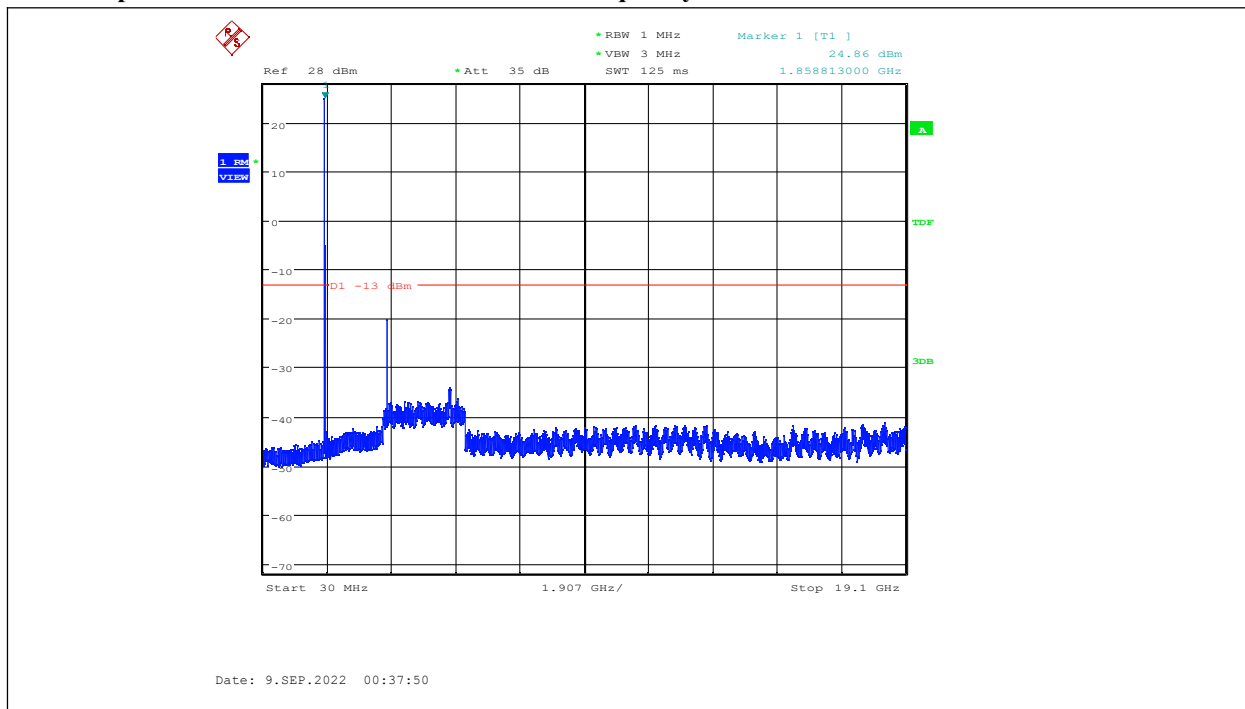
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NOTE: peak above the limit line is the carrier frequency.



LTE band 2-10MHz-16QAM-Low

NOTE: peak above the limit line is the carrier frequency.

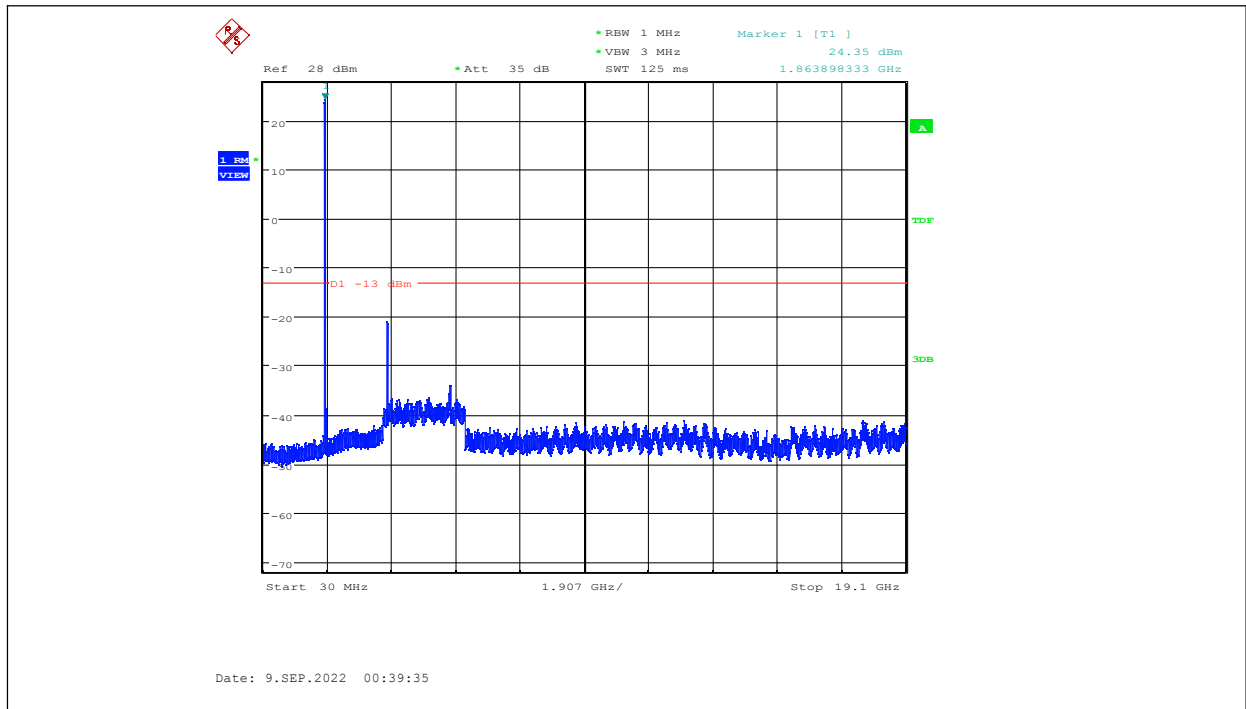


LTE band 2-15MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

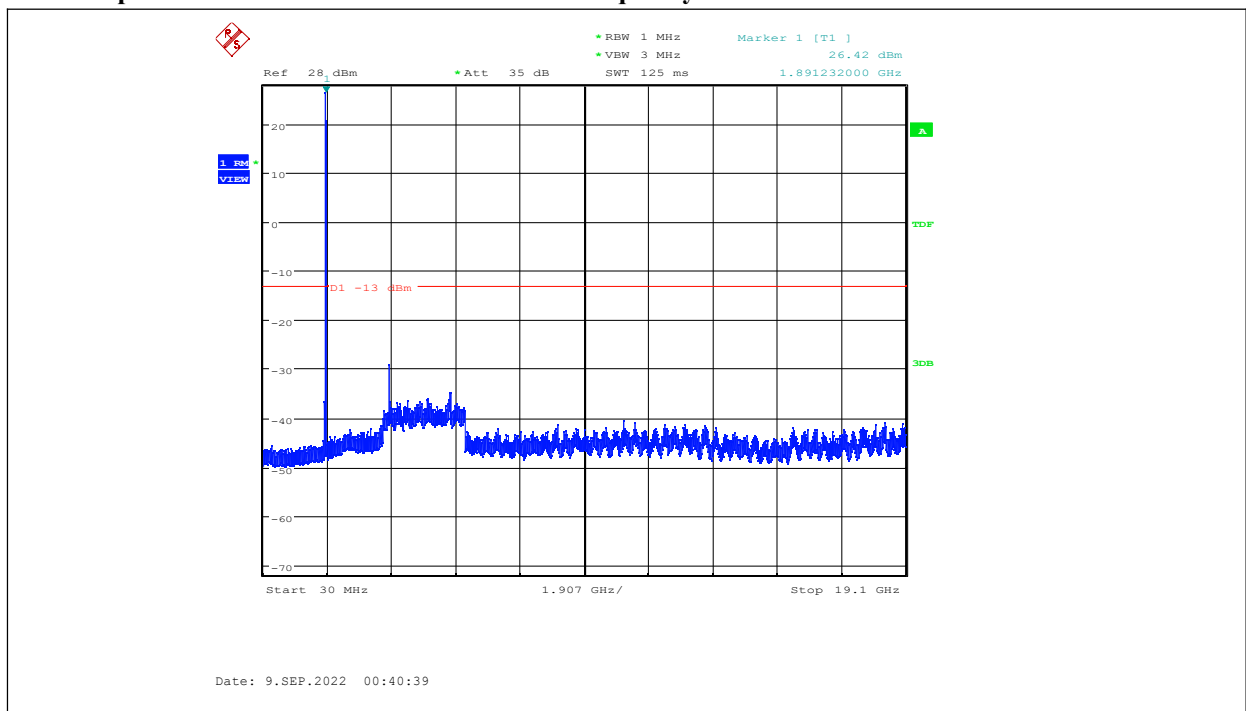
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LTE band 2-20MHz-QPSK-High

NOTE: peak above the limit line is the carrier frequency.

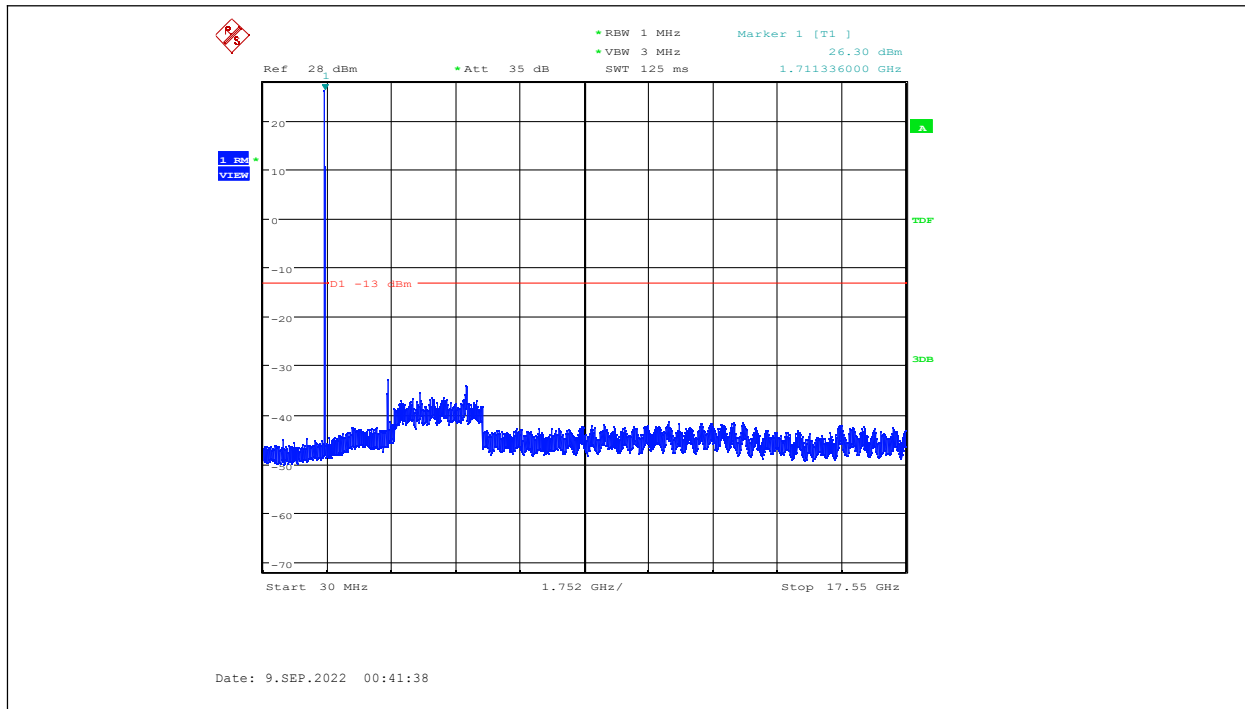


LTE band 4-1.4MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

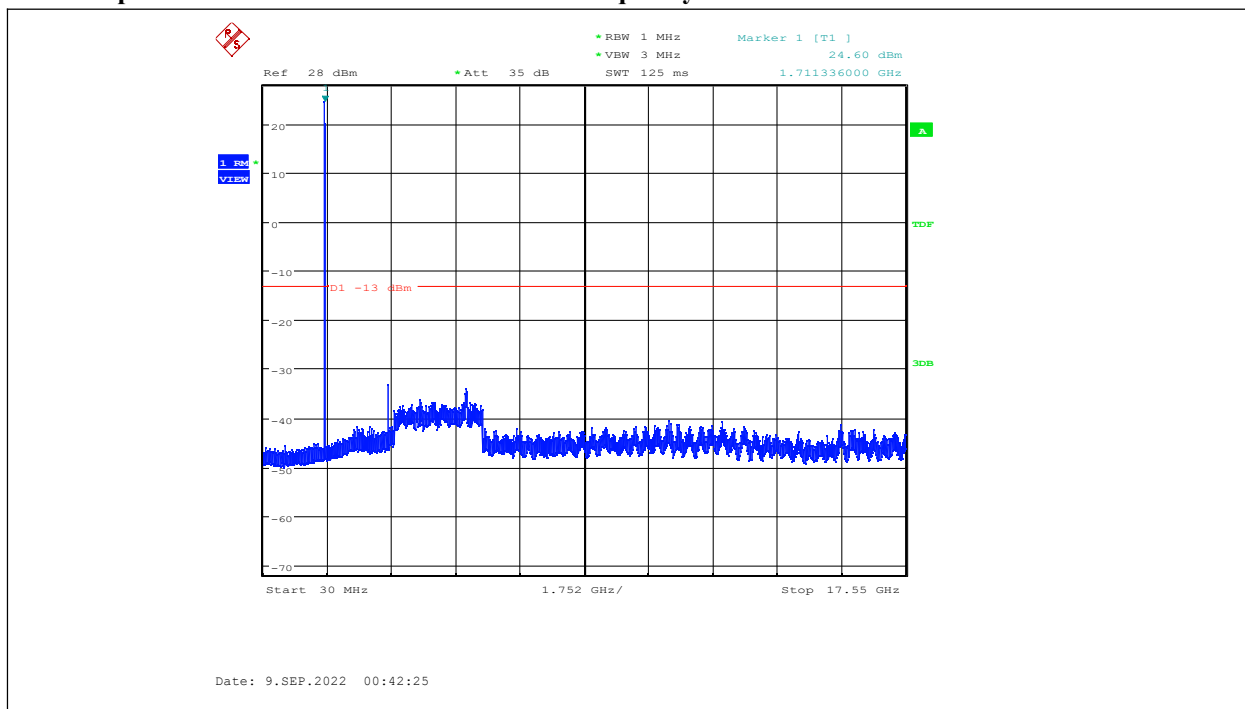
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LTE band 4-3MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

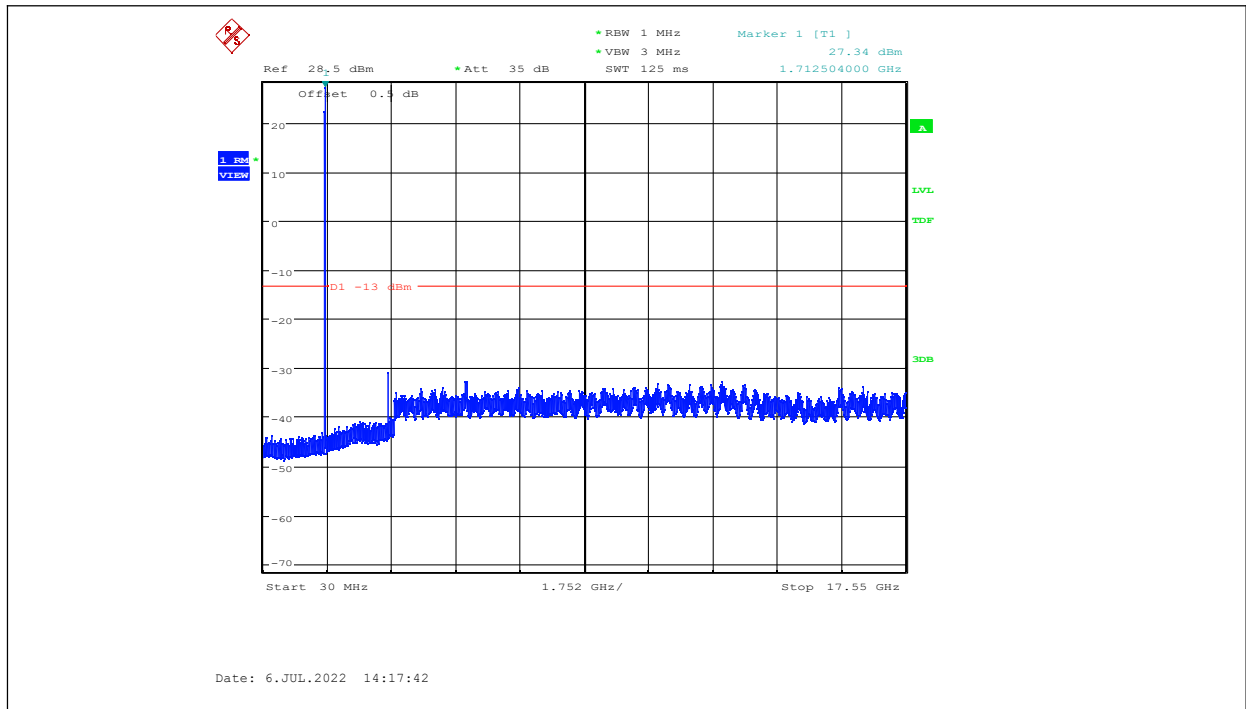


LTE band 4-5MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

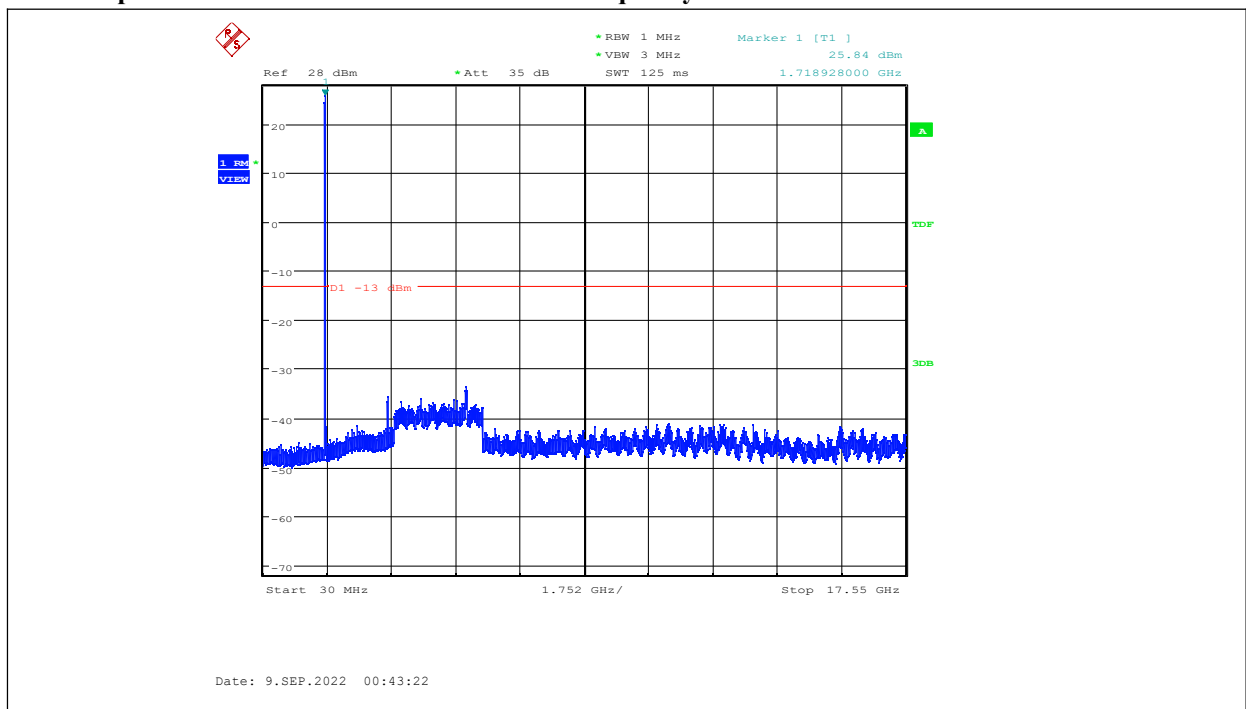
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LTE band 4-10MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

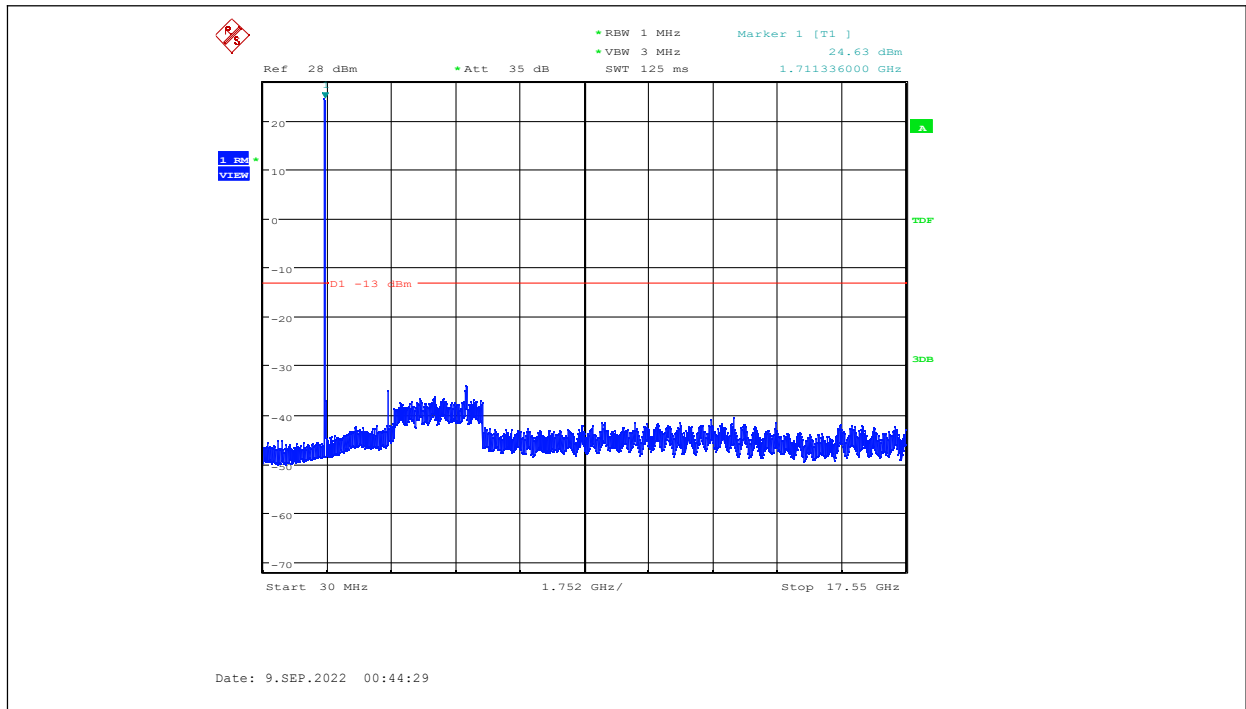


LTE band 4-15MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

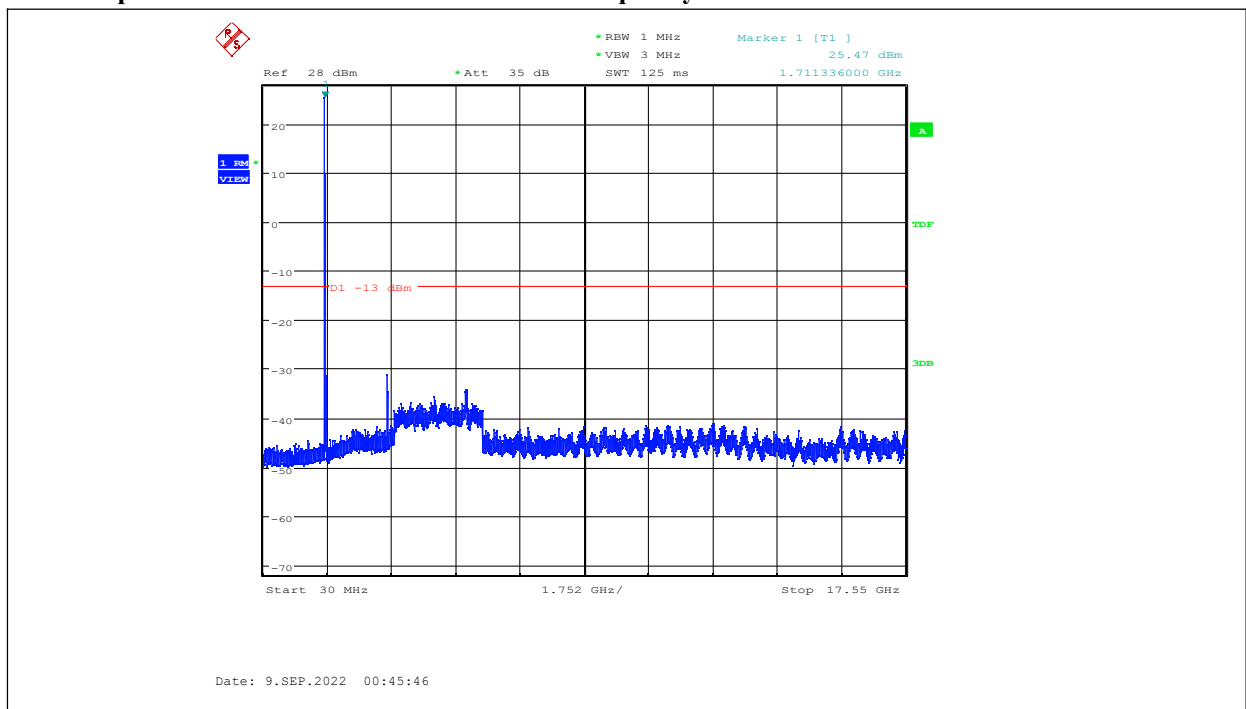
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LTE band 4-20MHz-QPSK-Low

NOTE: peak above the limit line is the carrier frequency.

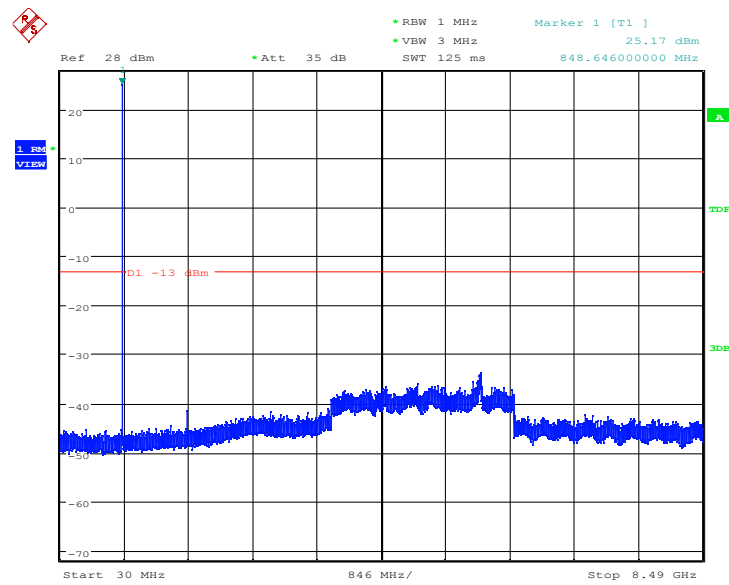


LTE band 5-1.4MHz-16QAM-High

NOTE: peak above the limit line is the carrier frequency.

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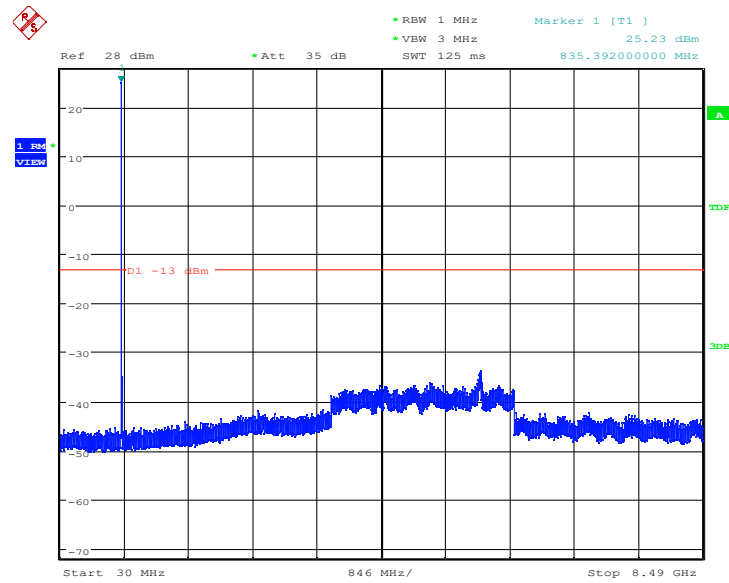
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Date: 9.SEP.2022 00:47:11

LTE band 5-3MHz-QPSK-Mid

NOTE: peak above the limit line is the carrier frequency.



Date: 9.SEP.2022 00:47:58

LTE band 5-5MHz-QPSK-High

NOTE: peak above the limit line is the carrier frequency.

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