



TEST REPORT

REPORT NUMBER: 24B02W000043-001

ON

Type of Equipment: Handheld Wireless Terminal
Type of Designation: T8F1B
Brand Name: SUNMI
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
FCC ID: 2AH25T8F1B
IC: 22621-T8F1B

ACCORDING TO
FCC 47 CFR Part 27
FCC 47 CFR Part 90
RSS-Gen Issue 5
RSS-140 Issue 1
RSS-195 Issue 2
ANSI C63.26-2015

Chongqing Academy of Information and Communications Technology

Month date, year

Feb.20th, 2025

Signature

Zhou Jin

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: 24B02W000043-001

Revision Version

Report Number	Revision	Date
24B02W000043-001	00	2025-02-20

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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	11
5.4. Vibration table	11
5.5. Test software	11
6. Test Results	12
6.1. Summary of Test Results	12
6.2. Conducted RF Power Output	13
6.3. ERP and EIRP	29

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Report No.: 24B02W000043-001

6.4. Occupied Bandwidth	50
6.5. Conducted spurious emissions	141
6.6. Radiated Spurious Emission	153
6.7. Band Edge	166
6.8. Frequency Stability	224
6.9. Peak to Average Ratio	229
ANNEX A EUT Photos	275
ANNEX B Deviations from Prescribed Test Methods	278

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
IC Registration Number:	29397
Address:	No.19EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

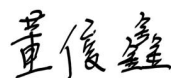
1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-70%

1.3. Project data

Testing Start Date:	2024-12-16
Testing End Date:	2025-01-10

1.4. Signature



2025-02-20

Dong Junxin
(Prepared this test report)

Date



2025-02-20

Wang Lili
(Reviewed this test report)

Date



2025-02-20

Zhou Jin
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	Shanghai
Country:	China
Telephone:	8618501703215
Fax:	--
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	Shanghai
Country:	China
Telephone:	8618501703215
Fax:	--
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

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

3.1. About EUT

EUT Description	Handheld Wireless Terminal
Model name	T8F1B
Brand name	SUNMI
LTE Frequency Band	14/26(814-824MHz)/30/40
Type of modulation	QPSK/16QAM/64QAM
Extreme Temperature	-20/+55°C
Nominal Test Voltage	DC 3.87VSSS
Extreme Test High Voltage	DC 4.45V
Extreme Test Low Voltage	DC 3.6V

Note1: Photographs of EUT are shown in ANNEX A of this test report.

Note2: 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
24B02W000043#S1	SN:L305E4BL00027	V00	1.00.00.20241113_1 86_userdebug	2024-12-09
24B02W000043#S2	SN:L305E4BL00021	V00	1.00.00.20241113_1 86_userdebug	2024-12-09

*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
LTE	B14	788-798	758-768	--
	B26	814-824	859-869	--
	B30	2305-2315	2350-2360	--
	B40	2300-2400	2300-2400	--

3.4. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF Cable	<1GHz: 0.2 ≥1GHz: 0.5

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

dB*: is provided customer.

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 47 CFR Part 27	Miscellaneous wireless communications services	--
FCC 47 CFR Part 90	Private Land Mobile Radio Services	--
RSS-Gen Issue 5	RSS-Gen —General Requirements For Compliance Of Radio Apparatus	2021-02
RSS-140 Issue 1	Equipment Operating In The Public Safety Broadband Frequency Bands 758-768 Mhz And 788-798 Mhz	2018-04
RSS-195 Issue 2	Wireless Communication Service (WCS) Equipment Operating In The Bands 2305-2320 Mhz And 2345-2360 Mhz	2014-04
ANSI C63.26	American National Standard Of Procedures For Compliance Testing Of Licensed Transmitters Used In Licensed Radio	2015

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137	--	--	R&S	1 Year	2025-06-28
2	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	1 Year	2025-06-28
3	Universal Radio Communication Tester	CMW500	166779	--	--	R&S	1 Year	2025-06-28
4	Spectrum analyzer	FSW43	104299	--	--	R&S	1 Year	2025-06-28
5	Power divider	--	--	--	--	--	--	--

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	1 Year	2025-06-28
2	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	1 Year	2025-06-28
3	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	1 Year	2025-06-28
4	Ultra-wideband and Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2 Year	2026-10-28
5	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2 Year	2026-05-13
6	Ultra-wideband and Log Periodic Antenna	VULB 9163	00995	--	--	Schwarzbeck	2 Year	2025-09-11
7	Double Ridged Guide	9120D	9120D-1083	--	--	Schwarzbeck	2 Year	2026-11-08

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	Antenna							
8	High gain horn antenna	DATE 1152	LM7127			ETS	2 Year	2026-09-30
9	Fully-Anechoic Chamber	FAC5	--	--	--	TDK	3 Year	2026-07-29
10	Anechoic chamber	SAC-10	--	--	--	TDK	3 Year	2026-08-26
11	Generator	SMCV100 B	104276	--	--	R&S	1 Year	2025-06-28
12	Amplifier1	SCU-08F1	8320027	--	--	R&S	--	--
13	Amplifier2	SCU-18F	180093	--	--	R&S	--	--
14	Generator	SMF 100A	104074	--	--	R&S	1 Year	2025-06-28

5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
1	Climate chamber	VT4002	518602722023003	KQSN	1 Year	2025-06-28

5.4. Vibration table

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

5.5. Test software

No.	Name	version	SN	Manufacture
1	T-RFS500	V2.0	--	Beijing Zhiwang Xince Technology Co., Ltd.
2	EMC32	V9.26.01	--	R&S
3	EMC32	V10.20.01	--	R&S

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6. Test Results

6.1. Summary of Test Results

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

FCC Rules	IC Rules	Name of Test	Result
90.542(a)(7)/90.635(b)/27.50(a)	RSS 140 4.3、RSS-195 5.5	Conducted RF Power Output	Pass
90.542(a)(7)/90.635(b)/27.50(a)	RSS 140 4.3、RSS-195 5.5	ERP and EIRP	Pass
--	RSS-GEN 6.7	Occupied Bandwidth	Pass
90.543(e)/90.543(f)/90.691/27.53 (a)	RSS 140 4.4、RSS-195 5.6	Conducted spurious emissions	Pass
90.543(e)/90.543(f)/90.691/27.53 (a)	RSS 140 4.4、RSS-195 5.6	Radiated Spurious Emission	Pass
90.543(e)/90.543(f)/90.691/27.53 (a)	RSS 140 4.4、RSS-195 5.6	Band Edge	Pass
90.539/90.213(a)/27.54	RSS 140 4.2、RSS-195 5.4	Frequency Stability	Pass
90.542(a)(7)/90.635(b)/27.50(a)	RSS 140 4.3、RSS-195 5.5	Peak to Average Ratio	Pass
27.50(a)	/	Duty cycle	Pass

Note 1: 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,64QAM 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 27.50(a)/90.635(b)/90.542(a)(7) RSS-140 4.3, RSS-195 5.5
DUT Serial Number:	IMEI:862072070026816'862072070026824
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 90.635(b):The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

According to Part 90.542(a)(7):Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

According to Part 27.50(a):For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

According to RSS-140 4.3:The e.i.r.p. for portable equipment including handheld devices shall not exceed 3 W.

According to RSS-195 5.5:The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

Measurement Uncertainty:

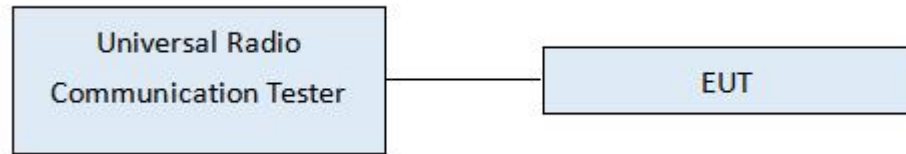
Item	Uncertainty
Expanded Uncertainty	0.6 dB (k=2)

Test Setup:

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

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Test Method:

The EUT is connected to the Universal Radio Communication Tester through the RF cable, and the average power and peak power are obtained through the Universal Radio Communication Tester

Note: --

6.2.1 Conducted RF Power Output Results

LTE band 14

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
5MHz	1 RB low	790.5	QPSK	23.11	27.56
5MHz	1 RB mid	790.5	QPSK	23.25	27.46
5MHz	1 RB high	790.5	QPSK	23.03	27.27
5MHz	50%,low	790.5	QPSK	22.06	27.84
5MHz	50% RB mid	790.5	QPSK	22.14	27.75
5MHz	50%,high	790.5	QPSK	22.12	27.73
5MHz	100% RB	790.5	QPSK	22.10	27.99
5MHz	1 RB low	790.5	16QAM	22.09	27.46
5MHz	1 RB mid	790.5	16QAM	22.23	27.37
5MHz	1 RB high	790.5	16QAM	22.04	27.16
5MHz	50%,low	790.5	16QAM	21.06	27.78
5MHz	50% RB mid	790.5	16QAM	21.15	27.75
5MHz	50%,high	790.5	16QAM	21.16	27.72
5MHz	100% RB	790.5	16QAM	21.09	27.71
5MHz	1 RB low	793	QPSK	23.15	27.55
5MHz	1 RB mid	793	QPSK	23.24	27.40
5MHz	1 RB high	793	QPSK	23.08	27.41
5MHz	50%,low	793	QPSK	22.05	27.83
5MHz	50% RB mid	793	QPSK	22.09	27.74
5MHz	50%,high	793	QPSK	22.06	27.75
5MHz	100% RB	793	QPSK	22.08	27.86
5MHz	1 RB low	793	16QAM	22.12	27.29
5MHz	1 RB mid	793	16QAM	22.22	27.19
5MHz	1 RB high	793	16QAM	22.10	27.22
5MHz	50%,low	793	16QAM	21.04	27.61
5MHz	50% RB mid	793	16QAM	21.12	27.51
5MHz	50%,high	793	16QAM	21.05	27.53

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5MHz	100% RB	793	16QAM	21.16	27.40
5MHz	1 RB low	795.5	QPSK	23.12	27.20
5MHz	1 RB mid	795.5	QPSK	23.17	27.28
5MHz	1 RB high	795.5	QPSK	23.06	27.44
5MHz	50%,low	795.5	QPSK	22.04	27.90
5MHz	50% RB mid	795.5	QPSK	22.03	27.88
5MHz	50%,high	795.5	QPSK	22.03	28.06
5MHz	100% RB	795.5	QPSK	22.00	28.13
5MHz	1 RB low	795.5	16QAM	22.27	27.13
5MHz	1 RB mid	795.5	16QAM	22.38	27.24
5MHz	1 RB high	795.5	16QAM	22.28	27.38
5MHz	50%,low	795.5	16QAM	21.17	27.35
5MHz	50% RB mid	795.5	16QAM	21.22	27.45
5MHz	50%,high	795.5	16QAM	21.15	27.52
5MHz	100% RB	795.5	16QAM	21.05	27.82
5MHz	1 RB low	790.5	64QAM	21.33	26.75
5MHz	1 RB mid	790.5	64QAM	21.48	26.70
5MHz	1 RB high	790.5	64QAM	21.34	26.60
5MHz	50%,low	790.5	64QAM	20.35	27.03
5MHz	50% RB mid	790.5	64QAM	20.43	26.90
5MHz	50%,high	790.5	64QAM	20.48	26.94
5MHz	100% RB	790.5	64QAM	20.44	27.89
5MHz	1 RB low	793	64QAM	21.69	26.99
5MHz	1 RB mid	793	64QAM	21.84	26.96
5MHz	1 RB high	793	64QAM	21.78	27.06
5MHz	50%,low	793	64QAM	20.51	27.43
5MHz	50% RB mid	793	64QAM	20.54	27.42
5MHz	50%,high	793	64QAM	20.56	27.49
5MHz	100% RB	793	64QAM	20.51	27.52
5MHz	1 RB low	795.5	64QAM	22.00	27.08
5MHz	1 RB mid	795.5	64QAM	22.10	27.31
5MHz	1 RB high	795.5	64QAM	22.03	27.40
5MHz	50%,low	795.5	64QAM	20.37	27.19
5MHz	50% RB mid	795.5	64QAM	20.42	27.42
5MHz	50%,high	795.5	64QAM	20.39	27.62
5MHz	100% RB	795.5	64QAM	20.42	27.07
10MHz	1 RB low	793	QPSK	23.17	27.81
10MHz	1 RB mid	793	QPSK	23.12	27.42
10MHz	1 RB high	793	QPSK	23.07	27.68

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10MHz	50%,low	793	QPSK	21.97	27.86
10MHz	50% RB mid	793	QPSK	22.13	27.84
10MHz	50%,high	793	QPSK	22.03	27.93
10MHz	100% RB	793	QPSK	22.04	28.40
10MHz	1 RB low	793	16QAM	22.32	27.43
10MHz	1 RB mid	793	16QAM	22.26	27.11
10MHz	1 RB high	793	16QAM	22.23	27.36
10MHz	50%,low	793	16QAM	20.99	27.81
10MHz	50% RB mid	793	16QAM	21.14	27.72
10MHz	50%,high	793	16QAM	21.03	27.85
10MHz	100% RB	793	16QAM	21.00	27.99
10MHz	1 RB low	793	64QAM	21.42	27.21
10MHz	1 RB mid	793	64QAM	21.44	27.02
10MHz	1 RB high	793	64QAM	21.48	27.38
10MHz	50%,low	793	64QAM	20.35	27.45
10MHz	50% RB mid	793	64QAM	20.54	27.45
10MHz	50%,high	793	64QAM	20.48	27.54
10MHz	100% RB	793	64QAM	20.42	28.05

LTE band 26_Part90

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	814.7	QPSK	22.71	27.62
1.4MHz	1 RB mid	814.7	QPSK	22.65	27.64
1.4MHz	1 RB high	814.7	QPSK	22.66	27.71
1.4MHz	50%,low	814.7	QPSK	23.02	25.92
1.4MHz	50% RB mid	814.7	QPSK	22.83	27.88
1.4MHz	50%,high	814.7	QPSK	22.99	25.89
1.4MHz	100% RB	814.7	QPSK	21.85	27.79
1.4MHz	1 RB low	814.7	16QAM	21.81	27.24
1.4MHz	1 RB mid	814.7	16QAM	21.85	27.23
1.4MHz	1 RB high	814.7	16QAM	21.84	27.33
1.4MHz	50%,low	814.7	16QAM	22.08	28.31
1.4MHz	50% RB mid	814.7	16QAM	22.10	28.20
1.4MHz	50%,high	814.7	16QAM	22.04	28.30
1.4MHz	100% RB	814.7	16QAM	20.75	27.47
1.4MHz	1 RB low	819	QPSK	22.75	27.87
1.4MHz	1 RB mid	819	QPSK	22.73	28.48
1.4MHz	1 RB high	819	QPSK	22.75	28.31
1.4MHz	50%,low	819	QPSK	23.00	26.12
1.4MHz	50% RB mid	819	QPSK	22.90	28.57

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1.4MHz	50%,high	819	QPSK	22.99	26.12
1.4MHz	100% RB	819	QPSK	21.90	28.19
1.4MHz	1 RB low	819	16QAM	21.65	28.06
1.4MHz	1 RB mid	819	16QAM	21.95	28.00
1.4MHz	1 RB high	819	16QAM	21.92	27.80
1.4MHz	50%,low	819	16QAM	22.22	26.11
1.4MHz	50% RB mid	819	16QAM	22.20	28.47
1.4MHz	50%,high	819	16QAM	22.17	26.15
1.4MHz	100% RB	819	16QAM	20.83	27.99
1.4MHz	1 RB low	823.3	QPSK	22.77	27.78
1.4MHz	1 RB mid	823.3	QPSK	22.74	27.87
1.4MHz	1 RB high	823.3	QPSK	22.72	27.91
1.4MHz	50%,low	823.3	QPSK	23.08	25.96
1.4MHz	50% RB mid	823.3	QPSK	22.91	27.92
1.4MHz	50%,high	823.3	QPSK	23.12	26.01
1.4MHz	100% RB	823.3	QPSK	21.93	27.70
1.4MHz	1 RB low	823.3	16QAM	21.87	27.43
1.4MHz	1 RB mid	823.3	16QAM	21.94	27.47
1.4MHz	1 RB high	823.3	16QAM	21.87	27.51
1.4MHz	50%,low	823.3	16QAM	22.15	25.99
1.4MHz	50% RB mid	823.3	16QAM	22.15	27.80
1.4MHz	50%,high	823.3	16QAM	22.13	26.02
1.4MHz	100% RB	823.3	16QAM	20.99	27.75
1.4MHz	1 RB low	814.7	64QAM	21.62	28.20
1.4MHz	1 RB mid	814.7	64QAM	21.58	28.24
1.4MHz	1 RB high	814.7	64QAM	21.57	28.35
1.4MHz	50%,low	814.7	64QAM	21.26	26.55
1.4MHz	50% RB mid	814.7	64QAM	21.31	28.25
1.4MHz	50%,high	814.7	64QAM	21.22	26.54
1.4MHz	100% RB	814.7	64QAM	20.30	27.54
1.4MHz	1 RB low	819	64QAM	21.71	27.73
1.4MHz	1 RB mid	819	64QAM	21.69	27.78
1.4MHz	1 RB high	819	64QAM	21.67	23.10
1.4MHz	50%,low	819	64QAM	21.40	26.70
1.4MHz	50% RB mid	819	64QAM	21.42	28.55
1.4MHz	50%,high	819	64QAM	21.37	26.68
1.4MHz	100% RB	819	64QAM	20.40	28.03
1.4MHz	1 RB low	823.3	64QAM	21.57	29.02
1.4MHz	1 RB mid	823.3	64QAM	21.59	28.98

Chongqing Academy of Information and Communications 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	823.3	64QAM	21.54	29.01
1.4MHz	50%,low	823.3	64QAM	21.53	26.69
1.4MHz	50% RB mid	823.3	64QAM	21.58	29.10
1.4MHz	50%,high	823.3	64QAM	21.52	26.68
1.4MHz	100% RB	823.3	64QAM	20.35	27.83
3MHz	1 RB low	815.5	QPSK	22.61	27.53
3MHz	1 RB mid	815.5	QPSK	22.74	27.79
3MHz	1 RB high	815.5	QPSK	22.60	27.83
3MHz	50%,low	815.5	QPSK	22.99	25.94
3MHz	50% RB mid	815.5	QPSK	21.84	27.43
3MHz	50%,high	815.5	QPSK	22.97	25.91
3MHz	100% RB	815.5	QPSK	21.80	27.28
3MHz	1 RB low	815.5	16QAM	21.74	27.09
3MHz	1 RB mid	815.5	16QAM	21.87	27.34
3MHz	1 RB high	815.5	16QAM	21.74	27.38
3MHz	50%,low	815.5	16QAM	20.88	25.95
3MHz	50% RB mid	815.5	16QAM	20.99	27.40
3MHz	50%,high	815.5	16QAM	20.99	25.94
3MHz	100% RB	815.5	16QAM	20.72	27.38
3MHz	1 RB low	819	QPSK	22.70	27.70
3MHz	1 RB mid	819	QPSK	22.69	27.94
3MHz	1 RB high	819	QPSK	22.66	28.30
3MHz	50%,low	819	QPSK	22.88	25.99
3MHz	50% RB mid	819	QPSK	21.85	27.75
3MHz	50%,high	819	QPSK	22.88	25.99
3MHz	100% RB	819	QPSK	21.86	27.70
3MHz	1 RB low	819	16QAM	21.53	27.86
3MHz	1 RB mid	819	16QAM	21.86	27.49
3MHz	1 RB high	819	16QAM	21.78	27.71
3MHz	50%,low	819	16QAM	20.98	26.02
3MHz	50% RB mid	819	16QAM	21.04	27.89
3MHz	50%,high	819	16QAM	20.99	26.01
3MHz	100% RB	819	16QAM	20.76	27.40
3MHz	1 RB low	822.5	QPSK	22.57	27.30
3MHz	1 RB mid	822.5	QPSK	22.75	27.59
3MHz	1 RB high	822.5	QPSK	22.63	27.65
3MHz	50%,low	822.5	QPSK	23.01	25.95
3MHz	50% RB mid	822.5	QPSK	21.90	27.65
3MHz	50%,high	822.5	QPSK	22.99	25.95

Chongqing Academy of Information and Communications 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	100% RB	822.5	QPSK	21.85	27.88
3MHz	1 RB low	822.5	16QAM	21.77	27.00
3MHz	1 RB mid	822.5	16QAM	21.87	27.18
3MHz	1 RB high	822.5	16QAM	21.80	27.19
3MHz	50%,low	822.5	16QAM	21.03	25.96
3MHz	50% RB mid	822.5	16QAM	21.13	27.85
3MHz	50%,high	822.5	16QAM	21.04	25.97
3MHz	100% RB	822.5	16QAM	20.83	26.99
3MHz	1 RB low	815.5	64QAM	21.02	27.13
3MHz	1 RB mid	815.5	64QAM	21.22	27.26
3MHz	1 RB high	815.5	64QAM	21.07	27.27
3MHz	50%,low	815.5	64QAM	20.21	26.55
3MHz	50% RB mid	815.5	64QAM	20.29	26.97
3MHz	50%,high	815.5	64QAM	20.23	26.57
3MHz	100% RB	815.5	64QAM	20.46	27.46
3MHz	1 RB low	819	64QAM	21.46	27.51
3MHz	1 RB mid	819	64QAM	21.54	27.69
3MHz	1 RB high	819	64QAM	21.44	27.56
3MHz	50%,low	819	64QAM	20.31	26.60
3MHz	50% RB mid	819	64QAM	20.33	27.84
3MHz	50%,high	819	64QAM	20.23	26.60
3MHz	100% RB	819	64QAM	20.37	27.94
3MHz	1 RB low	822.5	64QAM	21.07	27.63
3MHz	1 RB mid	822.5	64QAM	21.22	27.74
3MHz	1 RB high	822.5	64QAM	21.15	27.66
3MHz	50%,low	822.5	64QAM	20.17	26.64
3MHz	50% RB mid	822.5	64QAM	20.23	27.66
3MHz	50%,high	822.5	64QAM	20.15	26.63
3MHz	100% RB	822.5	64QAM	20.43	27.37
5MHz	1 RB low	816.5	QPSK	22.90	27.29
5MHz	1 RB mid	816.5	QPSK	23.02	27.55
5MHz	1 RB high	816.5	QPSK	22.86	27.74
5MHz	50%,low	816.5	QPSK	21.82	28.15
5MHz	50% RB mid	816.5	QPSK	21.89	28.24
5MHz	50%,high	816.5	QPSK	21.84	28.41
5MHz	100% RB	816.5	QPSK	21.87	27.99
5MHz	1 RB low	816.5	16QAM	22.09	27.22
5MHz	1 RB mid	816.5	16QAM	22.26	27.47
5MHz	1 RB high	816.5	16QAM	22.13	27.70

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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	816.5	16QAM	20.97	27.34
5MHz	50% RB mid	816.5	16QAM	21.01	27.48
5MHz	50%,high	816.5	16QAM	20.96	27.54
5MHz	100% RB	816.5	16QAM	20.87	27.75
5MHz	1 RB low	819	QPSK	22.96	27.81
5MHz	1 RB mid	819	QPSK	23.10	27.91
5MHz	1 RB high	819	QPSK	22.94	27.86
5MHz	50%,low	819	QPSK	21.90	28.25
5MHz	50% RB mid	819	QPSK	21.99	28.05
5MHz	50%,high	819	QPSK	21.89	28.57
5MHz	100% RB	819	QPSK	21.93	28.03
5MHz	1 RB low	819	16QAM	21.98	27.53
5MHz	1 RB mid	819	16QAM	22.34	27.82
5MHz	1 RB high	819	16QAM	22.03	27.91
5MHz	50%,low	819	16QAM	20.99	28.07
5MHz	50% RB mid	819	16QAM	21.10	27.91
5MHz	50%,high	819	16QAM	20.89	28.33
5MHz	100% RB	819	16QAM	20.98	27.78
5MHz	1 RB low	821.5	QPSK	23.01	27.57
5MHz	1 RB mid	821.5	QPSK	23.17	27.93
5MHz	1 RB high	821.5	QPSK	23.05	28.12
5MHz	50%,low	821.5	QPSK	21.94	28.01
5MHz	50% RB mid	821.5	QPSK	22.03	28.14
5MHz	50%,high	821.5	QPSK	21.96	28.24
5MHz	100% RB	821.5	QPSK	21.97	28.23
5MHz	1 RB low	821.5	16QAM	22.01	27.31
5MHz	1 RB mid	821.5	16QAM	22.18	27.64
5MHz	1 RB high	821.5	16QAM	22.07	27.84
5MHz	50%,low	821.5	16QAM	20.91	27.84
5MHz	50% RB mid	821.5	16QAM	21.03	27.98
5MHz	50%,high	821.5	16QAM	20.92	28.01
5MHz	100% RB	821.5	16QAM	21.04	27.56
5MHz	1 RB low	816.5	64QAM	21.38	26.77
5MHz	1 RB mid	816.5	64QAM	21.54	27.00
5MHz	1 RB high	816.5	64QAM	21.46	27.04
5MHz	50%,low	816.5	64QAM	20.44	27.06
5MHz	50% RB mid	816.5	64QAM	20.52	27.11
5MHz	50%,high	816.5	64QAM	20.50	27.16
5MHz	100% RB	816.5	64QAM	20.51	27.44

Chongqing Academy of Information and Communications 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	1 RB low	819	64QAM	21.81	27.43
5MHz	1 RB mid	819	64QAM	21.96	27.70
5MHz	1 RB high	819	64QAM	21.91	27.68
5MHz	50%,low	819	64QAM	20.58	27.75
5MHz	50% RB mid	819	64QAM	20.65	27.85
5MHz	50%,high	819	64QAM	20.62	27.84
5MHz	100% RB	819	64QAM	20.57	27.98
5MHz	1 RB low	821.5	64QAM	22.10	27.77
5MHz	1 RB mid	821.5	64QAM	22.19	27.91
5MHz	1 RB high	821.5	64QAM	22.09	27.78
5MHz	50%,low	821.5	64QAM	20.45	27.95
5MHz	50% RB mid	821.5	64QAM	20.49	27.96
5MHz	50%,high	821.5	64QAM	20.43	27.86
5MHz	100% RB	821.5	64QAM	20.52	27.34
10MHz	1 RB low	819	QPSK	22.96	27.88
10MHz	1 RB mid	819	QPSK	23.01	28.53
10MHz	1 RB high	819	QPSK	22.96	28.65
10MHz	50%,low	819	QPSK	21.97	28.17
10MHz	50% RB mid	819	QPSK	21.97	28.33
10MHz	50%,high	819	QPSK	21.86	28.33
10MHz	100% RB	819	QPSK	21.97	28.62
10MHz	1 RB low	819	16QAM	22.13	27.50
10MHz	1 RB mid	819	16QAM	22.21	28.06
10MHz	1 RB high	819	16QAM	22.14	28.10
10MHz	50%,low	819	16QAM	21.01	28.12
10MHz	50% RB mid	819	16QAM	21.03	28.36
10MHz	50%,high	819	16QAM	20.91	28.46
10MHz	100% RB	819	16QAM	20.99	28.49
10MHz	1 RB low	819	64QAM	21.45	27.37
10MHz	1 RB mid	819	64QAM	21.53	27.68
10MHz	1 RB high	819	64QAM	21.54	27.77
10MHz	50%,low	819	64QAM	20.55	27.83
10MHz	50% RB mid	819	64QAM	20.60	28.02
10MHz	50%,high	819	64QAM	20.53	27.94
10MHz	100% RB	819	64QAM	20.51	28.27

LTE band 30

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
5MHz	1 RB low	2307.5	QPSK	22.84	27.01
5MHz	1 RB mid	2307.5	QPSK	22.92	27.04

Chongqing Academy of Information and Communications 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	1 RB high	2307.5	QPSK	22.78	26.95
5MHz	50%,low	2307.5	QPSK	21.74	27.20
5MHz	50% RB mid	2307.5	QPSK	21.85	27.17
5MHz	50%,high	2307.5	QPSK	21.76	27.20
5MHz	100% RB	2307.5	QPSK	21.77	27.36
5MHz	1 RB low	2307.5	16QAM	21.78	26.70
5MHz	1 RB mid	2307.5	16QAM	21.89	26.80
5MHz	1 RB high	2307.5	16QAM	21.76	26.66
5MHz	50%,low	2307.5	16QAM	20.72	27.11
5MHz	50% RB mid	2307.5	16QAM	20.84	27.16
5MHz	50%,high	2307.5	16QAM	20.79	27.18
5MHz	100% RB	2307.5	16QAM	20.78	27.39
5MHz	1 RB low	2310	QPSK	22.83	27.16
5MHz	1 RB mid	2310	QPSK	22.93	27.06
5MHz	1 RB high	2310	QPSK	22.77	26.53
5MHz	50%,low	2310	QPSK	21.79	27.47
5MHz	50% RB mid	2310	QPSK	21.83	27.30
5MHz	50%,high	2310	QPSK	21.71	27.22
5MHz	100% RB	2310	QPSK	21.76	27.33
5MHz	1 RB low	2310	16QAM	21.81	26.79
5MHz	1 RB mid	2310	16QAM	21.90	26.80
5MHz	1 RB high	2310	16QAM	21.78	26.59
5MHz	50%,low	2310	16QAM	20.79	27.30
5MHz	50% RB mid	2310	16QAM	20.76	27.16
5MHz	50%,high	2310	16QAM	20.66	27.00
5MHz	100% RB	2310	16QAM	20.80	27.09
5MHz	1 RB low	2312.5	QPSK	22.81	26.77
5MHz	1 RB mid	2312.5	QPSK	22.89	26.38
5MHz	1 RB high	2312.5	QPSK	22.39	24.86
5MHz	50%,low	2312.5	QPSK	21.86	27.47
5MHz	50% RB mid	2312.5	QPSK	21.82	27.04
5MHz	50%,high	2312.5	QPSK	21.67	26.60
5MHz	100% RB	2312.5	QPSK	21.74	27.13
5MHz	1 RB low	2312.5	16QAM	21.96	26.55
5MHz	1 RB mid	2312.5	16QAM	22.02	26.19
5MHz	1 RB high	2312.5	16QAM	21.79	25.14
5MHz	50%,low	2312.5	16QAM	20.93	26.88
5MHz	50% RB mid	2312.5	16QAM	20.88	26.68
5MHz	50%,high	2312.5	16QAM	20.74	26.52

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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	100% RB	2312.5	16QAM	20.75	27.05
5MHz	1 RB low	2307.5	64QAM	21.60	26.73
5MHz	1 RB mid	2307.5	64QAM	21.69	26.75
5MHz	1 RB high	2307.5	64QAM	21.58	26.67
5MHz	50%,low	2307.5	64QAM	20.55	27.07
5MHz	50% RB mid	2307.5	64QAM	20.65	27.06
5MHz	50%,high	2307.5	64QAM	20.63	27.10
5MHz	100% RB	2307.5	64QAM	20.65	27.97
5MHz	1 RB low	2310	64QAM	21.60	27.10
5MHz	1 RB mid	2310	64QAM	21.72	27.10
5MHz	1 RB high	2310	64QAM	21.61	26.90
5MHz	50%,low	2310	64QAM	20.66	27.65
5MHz	50% RB mid	2310	64QAM	20.67	27.55
5MHz	50%,high	2310	64QAM	20.61	27.48
5MHz	100% RB	2310	64QAM	20.70	27.93
5MHz	1 RB low	2312.5	64QAM	21.96	27.14
5MHz	1 RB mid	2312.5	64QAM	22.03	27.00
5MHz	1 RB high	2312.5	64QAM	21.91	26.64
5MHz	50%,low	2312.5	64QAM	20.84	27.43
5MHz	50% RB mid	2312.5	64QAM	20.81	27.30
5MHz	50%,high	2312.5	64QAM	20.71	27.17
5MHz	100% RB	2312.5	64QAM	20.72	27.35
10MHz	1 RB low	2310	QPSK	22.82	27.41
10MHz	1 RB mid	2310	QPSK	22.87	27.26
10MHz	1 RB high	2310	QPSK	22.60	25.06
10MHz	50%,low	2310	QPSK	21.81	27.38
10MHz	50% RB mid	2310	QPSK	21.79	27.22
10MHz	50%,high	2310	QPSK	21.63	26.96
10MHz	100% RB	2310	QPSK	21.76	27.79
10MHz	1 RB low	2310	16QAM	21.90	26.82
10MHz	1 RB mid	2310	16QAM	21.90	26.76
10MHz	1 RB high	2310	16QAM	21.74	25.46
10MHz	50%,low	2310	16QAM	20.82	27.37
10MHz	50% RB mid	2310	16QAM	20.87	27.34
10MHz	50%,high	2310	16QAM	20.64	27.07
10MHz	100% RB	2310	16QAM	20.72	27.40
10MHz	1 RB low	2310	64QAM	21.66	27.06
10MHz	1 RB mid	2310	64QAM	21.75	27.11
10MHz	1 RB high	2310	64QAM	21.67	26.65

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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	50%,low	2310	64QAM	20.71	27.78
10MHz	50% RB mid	2310	64QAM	20.80	27.81
10MHz	50%,high	2310	64QAM	20.64	27.60
10MHz	100% RB	2310	64QAM	20.81	28.29

LTE band 40L

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
5MHz	1 RB low	2307.5	QPSK	22.79	27.13
5MHz	1 RB mid	2307.5	QPSK	22.89	27.19
5MHz	1 RB high	2307.5	QPSK	22.75	27.19
5MHz	50%,low	2307.5	QPSK	21.69	28.07
5MHz	50% RB mid	2307.5	QPSK	21.80	27.96
5MHz	50%,high	2307.5	QPSK	21.79	27.97
5MHz	100% RB	2307.5	QPSK	21.77	27.74
5MHz	1 RB low	2307.5	16QAM	21.95	27.04
5MHz	1 RB mid	2307.5	16QAM	22.08	27.13
5MHz	1 RB high	2307.5	16QAM	21.91	27.05
5MHz	50%,low	2307.5	16QAM	20.75	27.13
5MHz	50% RB mid	2307.5	16QAM	20.80	27.13
5MHz	50%,high	2307.5	16QAM	20.82	27.17
5MHz	100% RB	2307.5	16QAM	20.70	27.31
5MHz	1 RB low	2310	QPSK	22.71	27.39
5MHz	1 RB mid	2310	QPSK	22.83	27.48
5MHz	1 RB high	2310	QPSK	22.68	27.43
5MHz	50%,low	2310	QPSK	21.66	27.29
5MHz	50% RB mid	2310	QPSK	21.76	27.30
5MHz	50%,high	2310	QPSK	21.74	27.36
5MHz	100% RB	2310	QPSK	21.71	27.60
5MHz	1 RB low	2310	16QAM	21.67	27.27
5MHz	1 RB mid	2310	16QAM	21.81	27.40
5MHz	1 RB high	2310	16QAM	21.66	27.29
5MHz	50%,low	2310	16QAM	20.69	27.00
5MHz	50% RB mid	2310	16QAM	20.74	27.01
5MHz	50%,high	2310	16QAM	20.70	27.08
5MHz	100% RB	2310	16QAM	20.72	27.72
5MHz	1 RB low	2312.5	QPSK	22.73	27.28
5MHz	1 RB mid	2312.5	QPSK	22.83	27.34
5MHz	1 RB high	2312.5	QPSK	22.69	27.27
5MHz	50%,low	2312.5	QPSK	21.70	27.51
5MHz	50% RB mid	2312.5	QPSK	21.75	27.47

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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%,high	2312.5	QPSK	21.71	27.53
5MHz	100% RB	2312.5	QPSK	21.72	27.57
5MHz	1 RB low	2312.5	16QAM	21.73	26.68
5MHz	1 RB mid	2312.5	16QAM	21.84	26.76
5MHz	1 RB high	2312.5	16QAM	21.70	26.72
5MHz	50%,low	2312.5	16QAM	20.64	27.46
5MHz	50% RB mid	2312.5	16QAM	20.68	27.42
5MHz	50%,high	2312.5	16QAM	20.66	27.42
5MHz	100% RB	2312.5	16QAM	20.76	27.63
5MHz	1 RB low	2307.5	64QAM	21.61	27.10
5MHz	1 RB mid	2307.5	64QAM	21.69	27.24
5MHz	1 RB high	2307.5	64QAM	21.59	27.14
5MHz	50%,low	2307.5	64QAM	20.59	27.84
5MHz	50% RB mid	2307.5	64QAM	20.62	27.79
5MHz	50%,high	2307.5	64QAM	20.60	27.74
5MHz	100% RB	2307.5	64QAM	20.61	28.27
5MHz	1 RB low	2310	64QAM	21.91	27.70
5MHz	1 RB mid	2310	64QAM	22.05	27.76
5MHz	1 RB high	2310	64QAM	21.92	27.73
5MHz	50%,low	2310	64QAM	20.67	27.77
5MHz	50% RB mid	2310	64QAM	20.74	27.80
5MHz	50%,high	2310	64QAM	20.74	27.85
5MHz	100% RB	2310	64QAM	20.65	28.19
5MHz	1 RB low	2312.5	64QAM	22.13	27.26
5MHz	1 RB mid	2312.5	64QAM	22.27	27.35
5MHz	1 RB high	2312.5	64QAM	22.11	27.26
5MHz	50%,low	2312.5	64QAM	20.53	27.75
5MHz	50% RB mid	2312.5	64QAM	20.60	27.80
5MHz	50%,high	2312.5	64QAM	20.55	27.82
5MHz	100% RB	2312.5	64QAM	20.60	27.30
10MHz	1 RB low	2310	QPSK	22.83	27.78
10MHz	1 RB mid	2310	QPSK	22.88	27.83
10MHz	1 RB high	2310	QPSK	22.74	27.78
10MHz	50%,low	2310	QPSK	21.70	27.58
10MHz	50% RB mid	2310	QPSK	21.79	27.63
10MHz	50%,high	2310	QPSK	21.75	27.69
10MHz	100% RB	2310	QPSK	21.75	28.07
10MHz	1 RB low	2310	16QAM	21.89	27.08
10MHz	1 RB mid	2310	16QAM	21.90	27.09

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

10MHz	1 RB high	2310	16QAM	21.80	27.06
10MHz	50%,low	2310	16QAM	20.70	27.42
10MHz	50% RB mid	2310	16QAM	20.78	27.47
10MHz	50%,high	2310	16QAM	20.76	27.53
10MHz	100% RB	2310	16QAM	20.72	28.07
10MHz	1 RB low	2310	64QAM	21.58	27.42
10MHz	1 RB mid	2310	64QAM	21.61	27.49
10MHz	1 RB high	2310	64QAM	21.57	27.48
10MHz	50%,low	2310	64QAM	20.63	27.75
10MHz	50% RB mid	2310	64QAM	20.69	27.85
10MHz	50%,high	2310	64QAM	20.73	27.97
10MHz	100% RB	2310	64QAM	20.62	28.55

LTE band 40H

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
5MHz	1 RB low	2352.5	QPSK	22.77	27.72
5MHz	1 RB mid	2352.5	QPSK	22.91	27.83
5MHz	1 RB high	2352.5	QPSK	22.75	27.72
5MHz	50%,low	2352.5	QPSK	21.76	27.67
5MHz	50% RB mid	2352.5	QPSK	21.82	27.69
5MHz	50%,high	2352.5	QPSK	21.79	27.76
5MHz	100% RB	2352.5	QPSK	21.79	27.94
5MHz	1 RB low	2352.5	16QAM	21.72	27.60
5MHz	1 RB mid	2352.5	16QAM	21.90	27.72
5MHz	1 RB high	2352.5	16QAM	21.75	27.59
5MHz	50%,low	2352.5	16QAM	20.79	27.46
5MHz	50% RB mid	2352.5	16QAM	20.81	27.40
5MHz	50%,high	2352.5	16QAM	20.78	27.44
5MHz	100% RB	2352.5	16QAM	20.77	27.87
5MHz	1 RB low	2355	QPSK	22.79	27.53
5MHz	1 RB mid	2355	QPSK	22.95	27.63
5MHz	1 RB high	2355	QPSK	22.77	27.52
5MHz	50%,low	2355	QPSK	21.77	27.81
5MHz	50% RB mid	2355	QPSK	21.82	27.81
5MHz	50%,high	2355	QPSK	21.80	27.88
5MHz	100% RB	2355	QPSK	21.79	27.97
5MHz	1 RB low	2355	16QAM	21.81	26.92
5MHz	1 RB mid	2355	16QAM	21.94	27.00
5MHz	1 RB high	2355	16QAM	21.79	26.93
5MHz	50%,low	2355	16QAM	20.73	27.63

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

5MHz	50% RB mid	2355	16QAM	20.78	27.66
5MHz	50%,high	2355	16QAM	20.73	27.64
5MHz	100% RB	2355	16QAM	20.83	27.34
5MHz	1 RB low	2357.5	QPSK	22.80	27.39
5MHz	1 RB mid	2357.5	QPSK	22.95	27.49
5MHz	1 RB high	2357.5	QPSK	22.83	27.48
5MHz	50%,low	2357.5	QPSK	21.78	28.44
5MHz	50% RB mid	2357.5	QPSK	21.83	28.36
5MHz	50%,high	2357.5	QPSK	21.79	28.41
5MHz	100% RB	2357.5	QPSK	21.76	27.86
5MHz	1 RB low	2357.5	16QAM	21.98	27.33
5MHz	1 RB mid	2357.5	16QAM	22.13	27.42
5MHz	1 RB high	2357.5	16QAM	21.99	27.35
5MHz	50%,low	2357.5	16QAM	20.85	27.47
5MHz	50% RB mid	2357.5	16QAM	20.90	27.52
5MHz	50%,high	2357.5	16QAM	20.84	27.49
5MHz	100% RB	2357.5	16QAM	20.75	27.49
5MHz	1 RB low	2352.5	64QAM	21.40	27.07
5MHz	1 RB mid	2352.5	64QAM	21.57	27.18
5MHz	1 RB high	2352.5	64QAM	21.44	27.08
5MHz	50%,low	2352.5	64QAM	20.45	27.90
5MHz	50% RB mid	2352.5	64QAM	20.48	27.89
5MHz	50%,high	2352.5	64QAM	20.43	27.77
5MHz	100% RB	2352.5	64QAM	20.47	28.05
5MHz	1 RB low	2355	64QAM	21.76	27.76
5MHz	1 RB mid	2355	64QAM	21.92	27.76
5MHz	1 RB high	2355	64QAM	21.81	27.72
5MHz	50%,low	2355	64QAM	20.53	27.71
5MHz	50% RB mid	2355	64QAM	20.59	27.71
5MHz	50%,high	2355	64QAM	20.58	27.75
5MHz	100% RB	2355	64QAM	20.49	28.08
5MHz	1 RB low	2357.5	64QAM	21.98	27.19
5MHz	1 RB mid	2357.5	64QAM	22.11	27.30
5MHz	1 RB high	2357.5	64QAM	21.96	27.17
5MHz	50%,low	2357.5	64QAM	20.40	27.64
5MHz	50% RB mid	2357.5	64QAM	20.44	27.68
5MHz	50%,high	2357.5	64QAM	20.40	27.66
5MHz	100% RB	2357.5	64QAM	20.43	27.20
10MHz	1 RB low	2355	QPSK	22.68	27.92

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

10MHz	1 RB mid	2355	QPSK	22.74	27.94
10MHz	1 RB high	2355	QPSK	22.62	27.82
10MHz	50%,low	2355	QPSK	21.55	27.60
10MHz	50% RB mid	2355	QPSK	21.58	27.62
10MHz	50%,high	2355	QPSK	21.52	27.60
10MHz	100% RB	2355	QPSK	21.56	28.12
10MHz	1 RB low	2355	16QAM	21.71	27.09
10MHz	1 RB mid	2355	16QAM	21.73	27.10
10MHz	1 RB high	2355	16QAM	21.67	27.06
10MHz	50%,low	2355	16QAM	20.56	27.45
10MHz	50% RB mid	2355	16QAM	20.62	27.51
10MHz	50%,high	2355	16QAM	20.58	27.51
10MHz	100% RB	2355	16QAM	20.55	27.89
10MHz	1 RB low	2355	64QAM	21.44	27.38
10MHz	1 RB mid	2355	64QAM	21.48	27.45
10MHz	1 RB high	2355	64QAM	21.44	27.42
10MHz	50%,low	2355	64QAM	20.50	27.83
10MHz	50% RB mid	2355	64QAM	20.57	27.88
10MHz	50%,high	2355	64QAM	20.55	27.85
10MHz	100% RB	2355	64QAM	20.47	28.56

6.3. ERP and EIRP

Specifications:	FCC Part 27.50(a)/90.635(b)/90.542(a)(7) RSS-140 4.3, RSS-195 5.5
DUT Serial Number:	IMEI:862072070026931'862072070026949
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

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

According to Part 90.635(b):The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

According to Part 90.542(a)(7):Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

According to Part 27.50(a):For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

According to RSS-140 4.3:The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

According to RSS-195 5.5:The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

Conducted RF Power+Antenna Gain(dBi)=EIRP

Conducted RF Power+Antenna Gain(dBd)=ERP

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

Chongqing Academy of Information and Communications 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

Frequency Band	AntennaGain (dBi)	AntennaGain (dBd)
LTE Band 14	-3.62	-5.77
LTE Band 26	-0.37	-2.52
LTE Band 30	-0.88	N/A
LTE Band 40	-0.72	N/A

Note: Antenna Gain is provided customer.

6.3.1 Measurement result

LTE band 14 (Part 90,RSS 140)

ERP Limits 34.8dBm(3w)

Max ERP:17.48dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	ERP(dBm) G _T = -5.77dBd	EIRP(dBm) G _T = -3.62dBi
5MHz	1 RB low	790.5	QPSK	23.11	17.34	19.49
5MHz	1 RB mid	790.5	QPSK	23.25	17.48	19.63
5MHz	1 RB high	790.5	QPSK	23.03	17.26	19.41
5MHz	50%,low	790.5	QPSK	22.06	16.29	18.44
5MHz	50% RB mid	790.5	QPSK	22.14	16.37	18.52
5MHz	50%,high	790.5	QPSK	22.12	16.35	18.50
5MHz	100% RB	790.5	QPSK	22.10	16.33	18.48
5MHz	1 RB low	790.5	16QAM	22.09	16.32	18.47
5MHz	1 RB mid	790.5	16QAM	22.23	16.46	18.61
5MHz	1 RB high	790.5	16QAM	22.04	16.27	18.42
5MHz	50%,low	790.5	16QAM	21.06	15.29	17.44
5MHz	50% RB mid	790.5	16QAM	21.15	15.38	17.53
5MHz	50%,high	790.5	16QAM	21.16	15.39	17.54
5MHz	100% RB	790.5	16QAM	21.09	15.32	17.47
5MHz	1 RB low	793	QPSK	23.15	17.38	19.53
5MHz	1 RB mid	793	QPSK	23.24	17.47	19.62
5MHz	1 RB high	793	QPSK	23.08	17.31	19.46
5MHz	50%,low	793	QPSK	22.05	16.28	18.43
5MHz	50% RB mid	793	QPSK	22.09	16.32	18.47
5MHz	50%,high	793	QPSK	22.06	16.29	18.44
5MHz	100% RB	793	QPSK	22.08	16.31	18.46
5MHz	1 RB low	793	16QAM	22.12	16.35	18.5
5MHz	1 RB mid	793	16QAM	22.22	16.45	18.6
5MHz	1 RB high	793	16QAM	22.10	16.33	18.48
5MHz	50%,low	793	16QAM	21.04	15.27	17.42
5MHz	50% RB mid	793	16QAM	21.12	15.35	17.50
5MHz	50%,high	793	16QAM	21.05	15.28	17.43
5MHz	100% RB	793	16QAM	21.16	15.39	17.54

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

5MHz	1 RB low	795.5	QPSK	23.12	17.35	19.5
5MHz	1 RB mid	795.5	QPSK	23.17	17.4	19.55
5MHz	1 RB high	795.5	QPSK	23.06	17.29	19.44
5MHz	50%,low	795.5	QPSK	22.04	16.27	18.42
5MHz	50% RB mid	795.5	QPSK	22.03	16.26	18.41
5MHz	50%,high	795.5	QPSK	22.03	16.26	18.41
5MHz	100% RB	795.5	QPSK	22.00	16.23	18.38
5MHz	1 RB low	795.5	16QAM	22.27	16.5	18.65
5MHz	1 RB mid	795.5	16QAM	22.38	16.61	18.76
5MHz	1 RB high	795.5	16QAM	22.28	16.51	18.66
5MHz	50%,low	795.5	16QAM	21.17	15.4	17.55
5MHz	50% RB mid	795.5	16QAM	21.22	15.45	17.60
5MHz	50%,high	795.5	16QAM	21.15	15.38	17.53
5MHz	100% RB	795.5	16QAM	21.05	15.28	17.43
5MHz	1 RB low	790.5	64QAM	21.33	15.56	17.71
5MHz	1 RB mid	790.5	64QAM	21.48	15.71	17.86
5MHz	1 RB high	790.5	64QAM	21.34	15.57	17.72
5MHz	50%,low	790.5	64QAM	20.35	14.58	16.73
5MHz	50% RB mid	790.5	64QAM	20.43	14.66	16.81
5MHz	50%,high	790.5	64QAM	20.48	14.71	16.86
5MHz	100% RB	790.5	64QAM	20.44	14.67	16.82
5MHz	1 RB low	793	64QAM	21.69	15.92	18.07
5MHz	1 RB mid	793	64QAM	21.84	16.07	18.22
5MHz	1 RB high	793	64QAM	21.78	16.01	18.16
5MHz	50%,low	793	64QAM	20.51	14.74	16.89
5MHz	50% RB mid	793	64QAM	20.54	14.77	16.92
5MHz	50%,high	793	64QAM	20.56	14.79	16.94
5MHz	100% RB	793	64QAM	20.51	14.74	16.89
5MHz	1 RB low	795.5	64QAM	22.00	16.23	18.38
5MHz	1 RB mid	795.5	64QAM	22.10	16.33	18.48
5MHz	1 RB high	795.5	64QAM	22.03	16.26	18.41
5MHz	50%,low	795.5	64QAM	20.37	14.60	16.75
5MHz	50% RB mid	795.5	64QAM	20.42	14.65	16.80
5MHz	50%,high	795.5	64QAM	20.39	14.62	16.77

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

5MHz	100% RB	795.5	64QAM	20.42	14.65	16.80
10MHz	1 RB low	793	QPSK	23.17	17.40	19.55
10MHz	1 RB mid	793	QPSK	23.12	17.35	19.50
10MHz	1 RB high	793	QPSK	23.07	17.30	19.45
10MHz	50%,low	793	QPSK	21.97	16.20	18.35
10MHz	50% RB mid	793	QPSK	22.13	16.36	18.51
10MHz	50%,high	793	QPSK	22.03	16.26	18.41
10MHz	100% RB	793	QPSK	22.04	16.27	18.42
10MHz	1 RB low	793	16QAM	22.32	16.55	18.70
10MHz	1 RB mid	793	16QAM	22.26	16.49	18.64
10MHz	1 RB high	793	16QAM	22.23	16.46	18.61
10MHz	50%,low	793	16QAM	20.99	15.22	17.37
10MHz	50% RB mid	793	16QAM	21.14	15.37	17.52
10MHz	50%,high	793	16QAM	21.03	15.26	17.41
10MHz	100% RB	793	16QAM	21.00	15.23	17.38
10MHz	1 RB low	793	64QAM	21.42	15.65	17.8
10MHz	1 RB mid	793	64QAM	21.44	15.67	17.82
10MHz	1 RB high	793	64QAM	21.48	15.71	17.86
10MHz	50%,low	793	64QAM	20.35	14.58	16.73
10MHz	50% RB mid	793	64QAM	20.54	14.77	16.92
10MHz	50%,high	793	64QAM	20.48	14.71	16.86
10MHz	100% RB	793	64QAM	20.42	14.65	16.80

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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 26(Part90)
ERP Limits 50dBm(100w)
Max ERP:20.65dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	ERP(dBm) G _T =-2.52 dBd	EIRP(dBm) G _T =-0.37 dBi
1.4MHz	1 RB low	814.7	QPSK	22.71	20.19	22.34
1.4MHz	1 RB mid	814.7	QPSK	22.65	20.13	22.28
1.4MHz	1 RB high	814.7	QPSK	22.66	20.14	22.29
1.4MHz	50%,low	814.7	QPSK	23.02	20.50	22.65
1.4MHz	50% RB mid	814.7	QPSK	22.83	20.31	22.46
1.4MHz	50%,high	814.7	QPSK	22.99	20.47	22.62
1.4MHz	100% RB	814.7	QPSK	21.85	19.33	21.48
1.4MHz	1 RB low	814.7	16QAM	21.81	19.29	21.44
1.4MHz	1 RB mid	814.7	16QAM	21.85	19.33	21.48
1.4MHz	1 RB high	814.7	16QAM	21.84	19.32	21.47
1.4MHz	50%,low	814.7	16QAM	23.02	20.50	22.65
1.4MHz	50% RB mid	814.7	16QAM	21.81	19.29	21.44
1.4MHz	50%,high	814.7	16QAM	23.02	20.50	22.65
1.4MHz	100% RB	814.7	16QAM	20.75	18.23	20.38
1.4MHz	1 RB low	819	QPSK	22.75	20.23	22.38
1.4MHz	1 RB mid	819	QPSK	22.73	20.21	22.36
1.4MHz	1 RB high	819	QPSK	22.75	20.23	22.38
1.4MHz	50%,low	819	QPSK	23.00	20.48	22.63
1.4MHz	50% RB mid	819	QPSK	22.90	20.38	22.53
1.4MHz	50%,high	819	QPSK	22.99	20.47	22.62
1.4MHz	100% RB	819	QPSK	21.90	19.38	21.53
1.4MHz	1 RB low	819	16QAM	21.65	19.13	21.28
1.4MHz	1 RB mid	819	16QAM	21.95	19.43	21.58
1.4MHz	1 RB high	819	16QAM	21.92	19.40	21.55
1.4MHz	50%,low	819	16QAM	22.99	20.47	22.62
1.4MHz	50% RB mid	819	16QAM	22.03	19.51	21.66
1.4MHz	50%,high	819	16QAM	23.01	20.49	22.64
1.4MHz	100% RB	819	16QAM	20.83	18.31	20.46
1.4MHz	1 RB low	823.3	QPSK	22.77	20.25	22.40
1.4MHz	1 RB mid	823.3	QPSK	22.74	20.22	22.37

Chongqing Academy of Information and Communications 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	823.3	QPSK	22.72	20.20	22.35
1.4MHz	50%,low	823.3	QPSK	23.08	20.56	22.71
1.4MHz	50% RB mid	823.3	QPSK	22.91	20.39	22.54
1.4MHz	50%,high	823.3	QPSK	23.12	20.60	22.75
1.4MHz	100% RB	823.3	QPSK	21.93	19.41	21.56
1.4MHz	1 RB low	823.3	16QAM	21.87	19.35	21.50
1.4MHz	1 RB mid	823.3	16QAM	21.94	19.42	21.57
1.4MHz	1 RB high	823.3	16QAM	21.87	19.35	21.50
1.4MHz	50%,low	823.3	16QAM	23.11	20.59	22.74
1.4MHz	50% RB mid	823.3	16QAM	22.01	19.49	21.64
1.4MHz	50%,high	823.3	16QAM	23.12	20.60	22.75
1.4MHz	100% RB	823.3	16QAM	20.99	18.47	20.62
1.4MHz	1 RB low	814.7	64QAM	21.81	19.29	21.44
1.4MHz	1 RB mid	814.7	64QAM	21.78	19.26	21.41
1.4MHz	1 RB high	814.7	64QAM	21.78	19.26	21.41
1.4MHz	50%,low	814.7	64QAM	21.63	19.11	21.26
1.4MHz	50% RB mid	814.7	64QAM	21.49	18.97	21.12
1.4MHz	50%,high	814.7	64QAM	21.62	19.10	21.25
1.4MHz	100% RB	814.7	64QAM	20.30	17.78	19.93
1.4MHz	1 RB low	819	64QAM	21.48	18.96	21.11
1.4MHz	1 RB mid	819	64QAM	21.53	19.01	21.16
1.4MHz	1 RB high	819	64QAM	21.49	18.97	21.12
1.4MHz	50%,low	819	64QAM	21.71	19.19	21.34
1.4MHz	50% RB mid	819	64QAM	21.69	19.17	21.32
1.4MHz	50%,high	819	64QAM	21.68	19.16	21.31
1.4MHz	100% RB	819	64QAM	20.40	17.88	20.03
1.4MHz	1 RB low	823.3	64QAM	21.91	19.39	21.54
1.4MHz	1 RB mid	823.3	64QAM	21.88	19.36	21.51
1.4MHz	1 RB high	823.3	64QAM	21.86	19.34	21.49
1.4MHz	50%,low	823.3	64QAM	21.70	19.18	21.33
1.4MHz	50% RB mid	823.3	64QAM	21.61	19.09	21.24
1.4MHz	50%,high	823.3	64QAM	21.69	19.17	21.32
1.4MHz	100% RB	823.3	64QAM	20.35	17.83	19.98
3MHz	1 RB low	815.5	QPSK	22.61	20.09	22.24

Chongqing Academy of Information and Communications 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	1 RB mid	815.5	QPSK	22.74	20.22	22.37
3MHz	1 RB high	815.5	QPSK	22.60	20.08	22.23
3MHz	50%,low	815.5	QPSK	22.99	20.47	22.62
3MHz	50% RB mid	815.5	QPSK	21.84	19.32	21.47
3MHz	50%,high	815.5	QPSK	22.97	20.45	22.60
3MHz	100% RB	815.5	QPSK	21.80	19.28	21.43
3MHz	1 RB low	815.5	16QAM	21.74	19.22	21.37
3MHz	1 RB mid	815.5	16QAM	21.87	19.35	21.50
3MHz	1 RB high	815.5	16QAM	21.74	19.22	21.37
3MHz	50%,low	815.5	16QAM	23.00	20.48	22.63
3MHz	50% RB mid	815.5	16QAM	20.79	18.27	20.42
3MHz	50%,high	815.5	16QAM	22.99	20.47	22.62
3MHz	100% RB	815.5	16QAM	20.72	18.20	20.35
3MHz	1 RB low	819	QPSK	22.70	20.18	22.33
3MHz	1 RB mid	819	QPSK	22.69	20.17	22.32
3MHz	1 RB high	819	QPSK	22.66	20.14	22.29
3MHz	50%,low	819	QPSK	22.88	20.36	22.51
3MHz	50% RB mid	819	QPSK	21.85	19.33	21.48
3MHz	50%,high	819	QPSK	22.88	20.36	22.51
3MHz	100% RB	819	QPSK	21.86	19.34	21.49
3MHz	1 RB low	819	16QAM	21.53	19.01	21.16
3MHz	1 RB mid	819	16QAM	21.86	19.34	21.49
3MHz	1 RB high	819	16QAM	21.78	19.26	21.41
3MHz	50%,low	819	16QAM	22.90	20.38	22.53
3MHz	50% RB mid	819	16QAM	20.85	18.33	20.48
3MHz	50%,high	819	16QAM	22.89	20.37	22.52
3MHz	100% RB	819	16QAM	20.76	18.24	20.39
3MHz	1 RB low	822.5	QPSK	22.57	20.05	22.20
3MHz	1 RB mid	822.5	QPSK	22.75	20.23	22.38
3MHz	1 RB high	822.5	QPSK	22.63	20.11	22.26
3MHz	50%,low	822.5	QPSK	23.01	20.49	22.64
3MHz	50% RB mid	822.5	QPSK	21.90	19.38	21.53
3MHz	50%,high	822.5	QPSK	22.99	20.47	22.62
3MHz	100% RB	822.5	QPSK	21.85	19.33	21.48

Chongqing Academy of Information and Communications 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	1 RB low	822.5	16QAM	21.77	19.25	21.40
3MHz	1 RB mid	822.5	16QAM	21.87	19.35	21.50
3MHz	1 RB high	822.5	16QAM	21.80	19.28	21.43
3MHz	50%,low	822.5	16QAM	23.00	20.48	22.63
3MHz	50% RB mid	822.5	16QAM	20.95	18.43	20.58
3MHz	50%,high	822.5	16QAM	23.01	20.49	22.64
3MHz	100% RB	822.5	16QAM	20.83	18.31	20.46
3MHz	1 RB low	815.5	64QAM	21.21	18.69	20.84
3MHz	1 RB mid	815.5	64QAM	21.37	18.85	21.00
3MHz	1 RB high	815.5	64QAM	21.24	18.72	20.87
3MHz	50%,low	815.5	64QAM	21.57	19.05	21.20
3MHz	50% RB mid	815.5	64QAM	20.45	17.93	20.08
3MHz	50%,high	815.5	64QAM	21.58	19.06	21.21
3MHz	100% RB	815.5	64QAM	20.46	17.94	20.09
3MHz	1 RB low	819	64QAM	21.58	19.06	21.21
3MHz	1 RB mid	819	64QAM	21.71	19.19	21.34
3MHz	1 RB high	819	64QAM	21.63	19.11	21.26
3MHz	50%,low	819	64QAM	21.48	18.96	21.11
3MHz	50% RB mid	819	64QAM	20.53	18.01	20.16
3MHz	50%,high	819	64QAM	21.48	18.96	21.11
3MHz	100% RB	819	64QAM	20.37	17.85	20.00
3MHz	1 RB low	822.5	64QAM	21.36	18.84	20.99
3MHz	1 RB mid	822.5	64QAM	21.44	18.92	21.07
3MHz	1 RB high	822.5	64QAM	21.38	18.86	21.01
3MHz	50%,low	822.5	64QAM	21.60	19.08	21.23
3MHz	50% RB mid	822.5	64QAM	20.45	17.93	20.08
3MHz	50%,high	822.5	64QAM	21.60	19.08	21.23
3MHz	100% RB	822.5	64QAM	20.43	17.91	20.06
5MHz	1 RB low	816.5	QPSK	22.90	20.38	22.53
5MHz	1 RB mid	816.5	QPSK	23.02	20.50	22.65
5MHz	1 RB high	816.5	QPSK	22.86	20.34	22.49
5MHz	50%,low	816.5	QPSK	21.82	19.30	21.45
5MHz	50% RB mid	816.5	QPSK	21.89	19.37	21.52
5MHz	50%,high	816.5	QPSK	21.84	19.32	21.47

Chongqing Academy of Information and Communications 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	100% RB	816.5	QPSK	21.87	19.35	21.50
5MHz	1 RB low	816.5	16QAM	22.09	19.57	21.72
5MHz	1 RB mid	816.5	16QAM	22.26	19.74	21.89
5MHz	1 RB high	816.5	16QAM	22.13	19.61	21.76
5MHz	50%,low	816.5	16QAM	20.97	18.45	20.60
5MHz	50% RB mid	816.5	16QAM	21.01	18.49	20.64
5MHz	50%,high	816.5	16QAM	20.96	18.44	20.59
5MHz	100% RB	816.5	16QAM	20.87	18.35	20.50
5MHz	1 RB low	819	QPSK	22.96	20.44	22.59
5MHz	1 RB mid	819	QPSK	23.10	20.58	22.73
5MHz	1 RB high	819	QPSK	22.94	20.42	22.57
5MHz	50%,low	819	QPSK	21.90	19.38	21.53
5MHz	50% RB mid	819	QPSK	21.99	19.47	21.62
5MHz	50%,high	819	QPSK	21.89	19.37	21.52
5MHz	100% RB	819	QPSK	21.93	19.41	21.56
5MHz	1 RB low	819	16QAM	21.98	19.46	21.61
5MHz	1 RB mid	819	16QAM	22.34	19.82	21.97
5MHz	1 RB high	819	16QAM	22.03	19.51	21.66
5MHz	50%,low	819	16QAM	20.99	18.47	20.62
5MHz	50% RB mid	819	16QAM	21.10	18.58	20.73
5MHz	50%,high	819	16QAM	20.89	18.37	20.52
5MHz	100% RB	819	16QAM	20.98	18.46	20.61
5MHz	1 RB low	821.5	QPSK	23.01	20.49	22.64
5MHz	1 RB mid	821.5	QPSK	23.17	20.65	22.80
5MHz	1 RB high	821.5	QPSK	23.05	20.53	22.68
5MHz	50%,low	821.5	QPSK	21.94	19.42	21.57
5MHz	50% RB mid	821.5	QPSK	22.03	19.51	21.66
5MHz	50%,high	821.5	QPSK	21.96	19.44	21.59
5MHz	100% RB	821.5	QPSK	21.97	19.45	21.60
5MHz	1 RB low	821.5	16QAM	22.01	19.49	21.64
5MHz	1 RB mid	821.5	16QAM	22.18	19.66	21.81
5MHz	1 RB high	821.5	16QAM	22.07	19.55	21.70
5MHz	50%,low	821.5	16QAM	20.91	18.39	20.54
5MHz	50% RB mid	821.5	16QAM	21.03	18.51	20.66

Chongqing Academy of Information and Communications 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%,high	821.5	16QAM	20.92	18.40	20.55
5MHz	100% RB	821.5	16QAM	21.04	18.52	20.67
5MHz	1 RB low	816.5	64QAM	21.38	18.86	21.01
5MHz	1 RB mid	816.5	64QAM	21.54	19.02	21.17
5MHz	1 RB high	816.5	64QAM	21.46	18.94	21.09
5MHz	50%,low	816.5	64QAM	20.44	17.92	20.07
5MHz	50% RB mid	816.5	64QAM	20.52	18.00	20.15
5MHz	50%,high	816.5	64QAM	20.50	17.98	20.13
5MHz	100% RB	816.5	64QAM	20.51	17.99	20.14
5MHz	1 RB low	819	64QAM	21.81	19.29	21.44
5MHz	1 RB mid	819	64QAM	21.96	19.44	21.59
5MHz	1 RB high	819	64QAM	21.91	19.39	21.54
5MHz	50%,low	819	64QAM	20.58	18.06	20.21
5MHz	50% RB mid	819	64QAM	20.65	18.13	20.28
5MHz	50%,high	819	64QAM	20.62	18.10	20.25
5MHz	100% RB	819	64QAM	20.57	18.05	20.20
5MHz	1 RB low	821.5	64QAM	22.10	19.58	21.73
5MHz	1 RB mid	821.5	64QAM	22.19	19.67	21.82
5MHz	1 RB high	821.5	64QAM	22.09	19.57	21.72
5MHz	50%,low	821.5	64QAM	20.45	17.93	20.08
5MHz	50% RB mid	821.5	64QAM	20.49	17.97	20.12
5MHz	50%,high	821.5	64QAM	20.43	17.91	20.06
5MHz	100% RB	821.5	64QAM	20.52	18.00	20.15
10MHz	1 RB low	819	QPSK	22.96	20.44	22.59
10MHz	1 RB mid	819	QPSK	23.01	20.49	22.64
10MHz	1 RB high	819	QPSK	22.96	20.44	22.59
10MHz	50%,low	819	QPSK	21.97	19.45	21.60
10MHz	50% RB mid	819	QPSK	21.97	19.45	21.60
10MHz	50%,high	819	QPSK	21.86	19.34	21.49
10MHz	100% RB	819	QPSK	21.97	19.45	21.60
10MHz	1 RB low	819	16QAM	22.13	19.61	21.76
10MHz	1 RB mid	819	16QAM	22.21	19.69	21.84
10MHz	1 RB high	819	16QAM	22.14	19.62	21.77
10MHz	50%,low	819	16QAM	21.01	18.49	20.64
10MHz	50% RB	819	16QAM	21.03	18.51	20.66

Chongqing Academy of Information and Communications 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

	mid					
10MHz	50%,high	819	16QAM	20.91	18.39	20.54
10MHz	100% RB	819	16QAM	20.99	18.47	20.62
10MHz	1 RB low	819	64QAM	21.45	18.93	21.08
10MHz	1 RB mid	819	64QAM	21.53	19.01	21.16
10MHz	1 RB high	819	64QAM	21.54	19.02	21.17
10MHz	50%,low	819	64QAM	20.55	18.03	20.18
10MHz	50% RB mid	819	64QAM	20.60	18.08	20.23
10MHz	50%,high	819	64QAM	20.53	18.01	20.16
10MHz	100% RB	819	64QAM	20.51	17.99	20.14

LTE band 30(Part 27,RSS 195)
EIRP Limits 24dBm
Max EIRP:22.05dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	ERP(dBm) G _T =-3.03 dBi	EIRP(dBm) G _T =-0.88 dBi
5MHz	1 RB low	2307.5	QPSK	22.84	19.81	21.96
5MHz	1 RB mid	2307.5	QPSK	22.92	19.89	22.04
5MHz	1 RB high	2307.5	QPSK	22.78	19.75	21.90
5MHz	50%,low	2307.5	QPSK	21.74	18.71	20.86
5MHz	50% RB mid	2307.5	QPSK	21.85	18.82	20.97
5MHz	50%,high	2307.5	QPSK	21.76	18.73	20.88
5MHz	100% RB	2307.5	QPSK	21.77	18.74	20.89
5MHz	1 RB low	2307.5	16QAM	21.78	18.75	20.90
5MHz	1 RB mid	2307.5	16QAM	21.89	18.86	21.01
5MHz	1 RB high	2307.5	16QAM	21.76	18.73	20.88
5MHz	50%,low	2307.5	16QAM	20.72	17.69	19.84
5MHz	50% RB mid	2307.5	16QAM	20.84	17.81	19.96
5MHz	50%,high	2307.5	16QAM	20.79	17.76	19.91
5MHz	100% RB	2307.5	16QAM	20.78	17.75	19.90
5MHz	1 RB low	2310	QPSK	22.83	19.80	21.95
5MHz	1 RB mid	2310	QPSK	22.93	19.90	22.05
5MHz	1 RB high	2310	QPSK	22.77	19.74	21.89
5MHz	50%,low	2310	QPSK	21.79	18.76	20.91
5MHz	50% RB mid	2310	QPSK	21.83	18.80	20.95
5MHz	50%,high	2310	QPSK	21.71	18.68	20.83
5MHz	100% RB	2310	QPSK	21.76	18.73	20.88
5MHz	1 RB low	2310	16QAM	21.81	18.78	20.93
5MHz	1 RB mid	2310	16QAM	21.90	18.87	21.02
5MHz	1 RB high	2310	16QAM	21.78	18.75	20.90
5MHz	50%,low	2310	16QAM	20.79	17.76	19.91
5MHz	50% RB mid	2310	16QAM	20.76	17.73	19.88
5MHz	50%,high	2310	16QAM	20.66	17.63	19.78
5MHz	100% RB	2310	16QAM	20.80	17.77	19.92
5MHz	1 RB low	2312.5	QPSK	22.81	19.78	21.93
5MHz	1 RB mid	2312.5	QPSK	22.89	19.86	22.01

Chongqing Academy of Information and Communications 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	1 RB high	2312.5	QPSK	22.39	19.36	21.51
5MHz	50%,low	2312.5	QPSK	21.86	18.83	20.98
5MHz	50% RB mid	2312.5	QPSK	21.82	18.79	20.94
5MHz	50%,high	2312.5	QPSK	21.67	18.64	20.79
5MHz	100% RB	2312.5	QPSK	21.74	18.71	20.86
5MHz	1 RB low	2312.5	16QAM	21.96	18.93	21.08
5MHz	1 RB mid	2312.5	16QAM	22.02	18.99	21.14
5MHz	1 RB high	2312.5	16QAM	21.79	18.76	20.91
5MHz	50%,low	2312.5	16QAM	20.93	17.90	20.05
5MHz	50% RB mid	2312.5	16QAM	20.88	17.85	20.00
5MHz	50%,high	2312.5	16QAM	20.74	17.71	19.86
5MHz	100% RB	2312.5	16QAM	20.75	17.72	19.87
5MHz	1 RB low	2307.5	64QAM	21.83	18.80	20.95
5MHz	1 RB mid	2307.5	64QAM	21.89	18.86	21.01
5MHz	1 RB high	2307.5	64QAM	21.77	18.74	20.89
5MHz	50%,low	2307.5	64QAM	20.82	17.79	19.94
5MHz	50% RB mid	2307.5	64QAM	20.89	17.86	20.01
5MHz	50%,high	2307.5	64QAM	20.89	17.86	20.01
5MHz	100% RB	2307.5	64QAM	20.89	17.86	20.01
5MHz	1 RB low	2310	64QAM	22.15	19.12	21.27
5MHz	1 RB mid	2310	64QAM	22.25	19.22	21.37
5MHz	1 RB high	2310	64QAM	22.11	19.08	21.23
5MHz	50%,low	2310	64QAM	20.99	17.96	20.11
5MHz	50% RB mid	2310	64QAM	20.98	17.95	20.10
5MHz	50%,high	2310	64QAM	20.88	17.85	20.00
5MHz	100% RB	2310	64QAM	20.86	17.83	19.98
5MHz	1 RB low	2312.5	64QAM	22.35	19.32	21.47
5MHz	1 RB mid	2312.5	64QAM	22.41	19.38	21.53
5MHz	1 RB high	2312.5	64QAM	22.27	19.24	21.39
5MHz	50%,low	2312.5	64QAM	20.87	17.84	19.99
5MHz	50% RB mid	2312.5	64QAM	20.86	17.83	19.98
5MHz	50%,high	2312.5	64QAM	20.72	17.69	19.84
5MHz	100% RB	2312.5	64QAM	20.85	17.82	19.97
10MHz	1 RB low	2310	QPSK	22.82	19.79	21.94

Chongqing Academy of Information and Communications 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	2310	QPSK	22.87	19.84	21.99
10MHz	1 RB high	2310	QPSK	22.60	19.57	21.72
10MHz	50%,low	2310	QPSK	21.81	18.78	20.93
10MHz	50% RB mid	2310	QPSK	21.79	18.76	20.91
10MHz	50%,high	2310	QPSK	21.63	18.60	20.75
10MHz	100% RB	2310	QPSK	21.76	18.73	20.88
10MHz	1 RB low	2310	16QAM	21.90	18.87	21.02
10MHz	1 RB mid	2310	16QAM	21.90	18.87	21.02
10MHz	1 RB high	2310	16QAM	21.74	18.71	20.86
10MHz	50%,low	2310	16QAM	20.82	17.79	19.94
10MHz	50% RB mid	2310	16QAM	20.87	17.84	19.99
10MHz	50%,high	2310	16QAM	20.64	17.61	19.76
10MHz	100% RB	2310	16QAM	20.72	17.69	19.84
10MHz	1 RB low	2310	64QAM	21.85	18.82	20.97
10MHz	1 RB mid	2310	64QAM	21.89	18.86	21.01
10MHz	1 RB high	2310	64QAM	21.81	18.78	20.93
10MHz	50%,low	2310	64QAM	20.91	17.88	20.03
10MHz	50% RB mid	2310	64QAM	20.98	17.95	20.10
10MHz	50%,high	2310	64QAM	20.81	17.78	19.93
10MHz	100% RB	2310	64QAM	20.81	17.78	19.93

LTE band 40L(Part 27,RSS 195)
EIRP Limits24dBm
Max EIRP:22.17dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	ERP(dBm) G _T =-2.87 dBi	EIRP(dBm) G _T =-0.72 dBi
5MHz	1 RB low	2307.5	QPSK	22.79	19.92	22.07
5MHz	1 RB mid	2307.5	QPSK	22.89	20.02	22.17
5MHz	1 RB high	2307.5	QPSK	22.75	19.88	22.03
5MHz	50%,low	2307.5	QPSK	21.69	18.82	20.97
5MHz	50% RB mid	2307.5	QPSK	21.80	18.93	21.08
5MHz	50%,high	2307.5	QPSK	21.79	18.92	21.07
5MHz	100% RB	2307.5	QPSK	21.77	18.90	21.05
5MHz	1 RB low	2307.5	16QAM	21.95	19.08	21.23
5MHz	1 RB mid	2307.5	16QAM	22.08	19.21	21.36
5MHz	1 RB high	2307.5	16QAM	21.91	19.04	21.19
5MHz	50%,low	2307.5	16QAM	20.75	17.88	20.03
5MHz	50% RB mid	2307.5	16QAM	20.80	17.93	20.08
5MHz	50%,high	2307.5	16QAM	20.82	17.95	20.10
5MHz	100% RB	2307.5	16QAM	20.70	17.83	19.98
5MHz	1 RB low	2310	QPSK	22.71	19.84	21.99
5MHz	1 RB mid	2310	QPSK	22.83	19.96	22.11
5MHz	1 RB high	2310	QPSK	22.68	19.81	21.96
5MHz	50%,low	2310	QPSK	21.66	18.79	20.94
5MHz	50% RB mid	2310	QPSK	21.76	18.89	21.04
5MHz	50%,high	2310	QPSK	21.74	18.87	21.02
5MHz	100% RB	2310	QPSK	21.71	18.84	20.99
5MHz	1 RB low	2310	16QAM	21.67	18.80	20.95
5MHz	1 RB mid	2310	16QAM	21.81	18.94	21.09
5MHz	1 RB high	2310	16QAM	21.66	18.79	20.94
5MHz	50%,low	2310	16QAM	20.69	17.82	19.97
5MHz	50% RB mid	2310	16QAM	20.74	17.87	20.02
5MHz	50%,high	2310	16QAM	20.70	17.83	19.98
5MHz	100% RB	2310	16QAM	20.72	17.85	20.00
5MHz	1 RB low	2312.5	QPSK	22.73	19.86	22.01
5MHz	1 RB mid	2312.5	QPSK	22.83	19.96	22.11

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5MHz	1 RB high	2312.5	QPSK	22.69	19.82	21.97
5MHz	50%,low	2312.5	QPSK	21.70	18.83	20.98
5MHz	50% RB mid	2312.5	QPSK	21.75	18.88	21.03
5MHz	50%,high	2312.5	QPSK	21.71	18.84	20.99
5MHz	100% RB	2312.5	QPSK	21.72	18.85	21.00
5MHz	1 RB low	2312.5	16QAM	21.73	18.86	21.01
5MHz	1 RB mid	2312.5	16QAM	21.84	18.97	21.12
5MHz	1 RB high	2312.5	16QAM	21.70	18.83	20.98
5MHz	50%,low	2312.5	16QAM	20.64	17.77	19.92
5MHz	50% RB mid	2312.5	16QAM	20.68	17.81	19.96
5MHz	50%,high	2312.5	16QAM	20.66	17.79	19.94
5MHz	100% RB	2312.5	16QAM	20.76	17.89	20.04
5MHz	1 RB low	2307.5	64QAM	21.81	18.94	21.09
5MHz	1 RB mid	2307.5	64QAM	21.93	19.06	21.21
5MHz	1 RB high	2307.5	64QAM	21.81	18.94	21.09
5MHz	50%,low	2307.5	64QAM	20.78	17.91	20.06
5MHz	50% RB mid	2307.5	64QAM	20.85	17.98	20.13
5MHz	50%,high	2307.5	64QAM	20.83	17.96	20.11
5MHz	100% RB	2307.5	64QAM	20.85	17.98	20.13
5MHz	1 RB low	2310	64QAM	22.10	19.23	21.38
5MHz	1 RB mid	2310	64QAM	22.25	19.38	21.53
5MHz	1 RB high	2310	64QAM	22.10	19.23	21.38
5MHz	50%,low	2310	64QAM	20.87	18.00	20.15
5MHz	50% RB mid	2310	64QAM	20.93	18.06	20.21
5MHz	50%,high	2310	64QAM	20.91	18.04	20.19
5MHz	100% RB	2310	64QAM	20.82	17.95	20.10
5MHz	1 RB low	2312.5	64QAM	22.30	19.43	21.58
5MHz	1 RB mid	2312.5	64QAM	22.40	19.53	21.68
5MHz	1 RB high	2312.5	64QAM	22.26	19.39	21.54
5MHz	50%,low	2312.5	64QAM	20.69	17.82	19.97
5MHz	50% RB mid	2312.5	64QAM	20.76	17.89	20.04
5MHz	50%,high	2312.5	64QAM	20.72	17.85	20.00
5MHz	100% RB	2312.5	64QAM	20.76	17.89	20.04
10MHz	1 RB low	2310	QPSK	22.83	19.96	22.11

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10MHz	1 RB mid	2310	QPSK	22.88	20.01	22.16
10MHz	1 RB high	2310	QPSK	22.74	19.87	22.02
10MHz	50%,low	2310	QPSK	21.70	18.83	20.98
10MHz	50% RB mid	2310	QPSK	21.79	18.92	21.07
10MHz	50%,high	2310	QPSK	21.75	18.88	21.03
10MHz	100% RB	2310	QPSK	21.75	18.88	21.03
10MHz	1 RB low	2310	16QAM	21.89	19.02	21.17
10MHz	1 RB mid	2310	16QAM	21.90	19.03	21.18
10MHz	1 RB high	2310	16QAM	21.80	18.93	21.08
10MHz	50%,low	2310	16QAM	20.70	17.83	19.98
10MHz	50% RB mid	2310	16QAM	20.78	17.91	20.06
10MHz	50%,high	2310	16QAM	20.76	17.89	20.04
10MHz	100% RB	2310	16QAM	20.72	17.85	20.00
10MHz	1 RB low	2310	64QAM	21.81	18.94	21.09
10MHz	1 RB mid	2310	64QAM	21.82	18.95	21.10
10MHz	1 RB high	2310	64QAM	21.73	18.86	21.01
10MHz	50%,low	2310	64QAM	20.83	17.96	20.11
10MHz	50% RB mid	2310	64QAM	20.91	18.04	20.19
10MHz	50%,high	2310	64QAM	20.90	18.03	20.18
10MHz	100% RB	2310	64QAM	20.82	17.95	20.10

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LTE band 40H(Part 27,RSS 195)
EIRP Limits 24dBm
Max EIRP:22.23dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	ERP(dBm) G _T =-2.87 dBi	EIRP(dBm) G _T =-0.72 dBi
5MHz	1 RB low	2352.5	QPSK	22.77	19.90	22.05
5MHz	1 RB mid	2352.5	QPSK	22.91	20.04	22.19
5MHz	1 RB high	2352.5	QPSK	22.75	19.88	22.03
5MHz	50%,low	2352.5	QPSK	21.76	18.89	21.04
5MHz	50% RB mid	2352.5	QPSK	21.82	18.95	21.10
5MHz	50%,high	2352.5	QPSK	21.79	18.92	21.07
5MHz	100% RB	2352.5	QPSK	21.79	18.92	21.07
5MHz	1 RB low	2352.5	16QAM	21.72	18.85	21.00
5MHz	1 RB mid	2352.5	16QAM	21.90	19.03	21.18
5MHz	1 RB high	2352.5	16QAM	21.75	18.88	21.03
5MHz	50%,low	2352.5	16QAM	20.79	17.92	20.07
5MHz	50% RB mid	2352.5	16QAM	20.81	17.94	20.09
5MHz	50%,high	2352.5	16QAM	20.78	17.91	20.06
5MHz	100% RB	2352.5	16QAM	20.77	17.90	20.05
5MHz	1 RB low	2355	QPSK	22.79	19.92	22.07
5MHz	1 RB mid	2355	QPSK	22.95	20.08	22.23
5MHz	1 RB high	2355	QPSK	22.77	19.90	22.05
5MHz	50%,low	2355	QPSK	21.77	18.90	21.05
5MHz	50% RB mid	2355	QPSK	21.82	18.95	21.10
5MHz	50%,high	2355	QPSK	21.80	18.93	21.08
5MHz	100% RB	2355	QPSK	21.79	18.92	21.07
5MHz	1 RB low	2355	16QAM	21.81	18.94	21.09
5MHz	1 RB mid	2355	16QAM	21.94	19.07	21.22
5MHz	1 RB high	2355	16QAM	21.79	18.92	21.07
5MHz	50%,low	2355	16QAM	20.73	17.86	20.01
5MHz	50% RB mid	2355	16QAM	20.78	17.91	20.06
5MHz	50%,high	2355	16QAM	20.73	17.86	20.01
5MHz	100% RB	2355	16QAM	20.83	17.96	20.11
5MHz	1 RB low	2357.5	QPSK	22.80	19.93	22.08
5MHz	1 RB mid	2357.5	QPSK	22.95	20.08	22.23

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5MHz	1 RB high	2357.5	QPSK	22.83	19.96	22.11
5MHz	50%,low	2357.5	QPSK	21.78	18.91	21.06
5MHz	50% RB mid	2357.5	QPSK	21.83	18.96	21.11
5MHz	50%,high	2357.5	QPSK	21.79	18.92	21.07
5MHz	100% RB	2357.5	QPSK	21.76	18.89	21.04
5MHz	1 RB low	2357.5	16QAM	21.98	19.11	21.26
5MHz	1 RB mid	2357.5	16QAM	22.13	19.26	21.41
5MHz	1 RB high	2357.5	16QAM	21.99	19.12	21.27
5MHz	50%,low	2357.5	16QAM	20.85	17.98	20.13
5MHz	50% RB mid	2357.5	16QAM	20.90	18.03	20.18
5MHz	50%,high	2357.5	16QAM	20.84	17.97	20.12
5MHz	100% RB	2357.5	16QAM	20.75	17.88	20.03
5MHz	1 RB low	2352.5	64QAM	21.59	18.72	20.87
5MHz	1 RB mid	2352.5	64QAM	21.72	18.85	21.00
5MHz	1 RB high	2352.5	64QAM	21.61	18.74	20.89
5MHz	50%,low	2352.5	64QAM	20.61	17.74	19.89
5MHz	50% RB mid	2352.5	64QAM	20.65	17.78	19.93
5MHz	50%,high	2352.5	64QAM	20.60	17.73	19.88
5MHz	100% RB	2352.5	64QAM	20.65	17.78	19.93
5MHz	1 RB low	2355	64QAM	21.95	19.08	21.23
5MHz	1 RB mid	2355	64QAM	22.07	19.20	21.35
5MHz	1 RB high	2355	64QAM	21.97	19.10	21.25
5MHz	50%,low	2355	64QAM	20.69	17.82	19.97
5MHz	50% RB mid	2355	64QAM	20.75	17.88	20.03
5MHz	50%,high	2355	64QAM	20.73	17.86	20.01
5MHz	100% RB	2355	64QAM	20.65	17.78	19.93
5MHz	1 RB low	2357.5	64QAM	22.13	19.26	21.41
5MHz	1 RB mid	2357.5	64QAM	22.26	19.39	21.54
5MHz	1 RB high	2357.5	64QAM	22.11	19.24	21.39
5MHz	50%,low	2357.5	64QAM	20.54	17.67	19.82
5MHz	50% RB mid	2357.5	64QAM	20.57	17.70	19.85
5MHz	50%,high	2357.5	64QAM	20.52	17.65	19.80
5MHz	100% RB	2357.5	64QAM	20.59	17.72	19.87
10MHz	1 RB low	2355	QPSK	22.68	19.81	21.96

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10MHz	1 RB mid	2355	QPSK	22.74	19.87	22.02
10MHz	1 RB high	2355	QPSK	22.62	19.75	21.90
10MHz	50%,low	2355	QPSK	21.55	18.68	20.83
10MHz	50% RB mid	2355	QPSK	21.58	18.71	20.86
10MHz	50%,high	2355	QPSK	21.52	18.65	20.80
10MHz	100% RB	2355	QPSK	21.56	18.69	20.84
10MHz	1 RB low	2355	16QAM	21.71	18.84	20.99
10MHz	1 RB mid	2355	16QAM	21.73	18.86	21.01
10MHz	1 RB high	2355	16QAM	21.67	18.80	20.95
10MHz	50%,low	2355	16QAM	20.56	17.69	19.84
10MHz	50% RB mid	2355	16QAM	20.62	17.75	19.90
10MHz	50%,high	2355	16QAM	20.58	17.71	19.86
10MHz	100% RB	2355	16QAM	20.55	17.68	19.83
10MHz	1 RB low	2355	64QAM	21.58	18.71	20.86
10MHz	1 RB mid	2355	64QAM	21.62	18.75	20.90
10MHz	1 RB high	2355	64QAM	21.58	18.71	20.86
10MHz	50%,low	2355	64QAM	20.65	17.78	19.93
10MHz	50% RB mid	2355	64QAM	20.73	17.86	20.01
10MHz	50%,high	2355	64QAM	20.69	17.82	19.97
10MHz	100% RB	2355	64QAM	20.63	17.76	19.91

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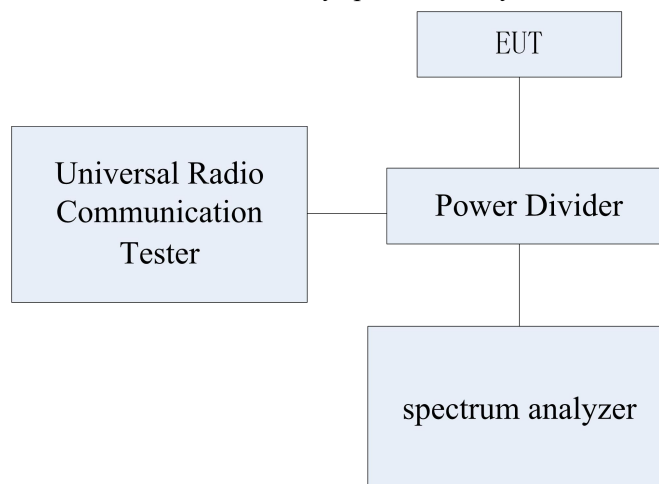
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6.4. Occupied Bandwidth

Specifications:	RSS-GEN 6.7
DUT Serial Number:	IMEI:862072070026816'862072070026824
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% 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	70.04 Hz (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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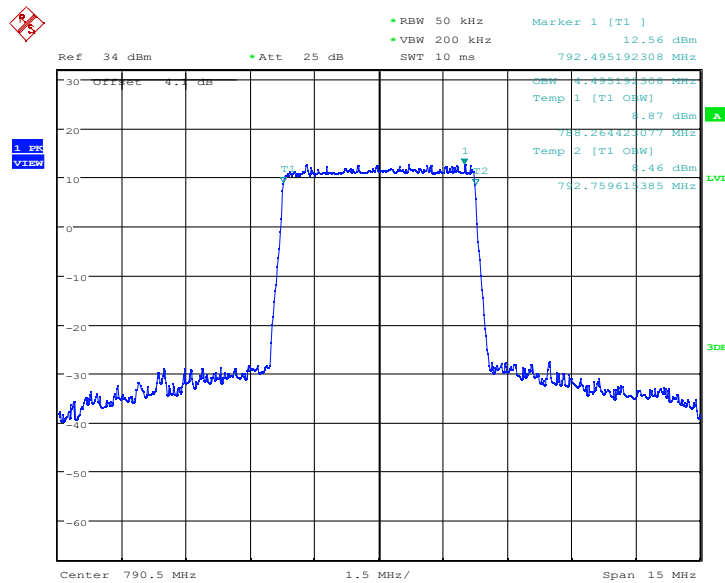
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6.4.1 occupied bandwidth Results

LTE band 14,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
790.5	4.495	4.495	4.500
793	4.495	4.495	4.475
795.5	4.519	4.495	4.500

LTE band 14 , 5MHz Bandwidth,LOW,QPSK (99% BW)

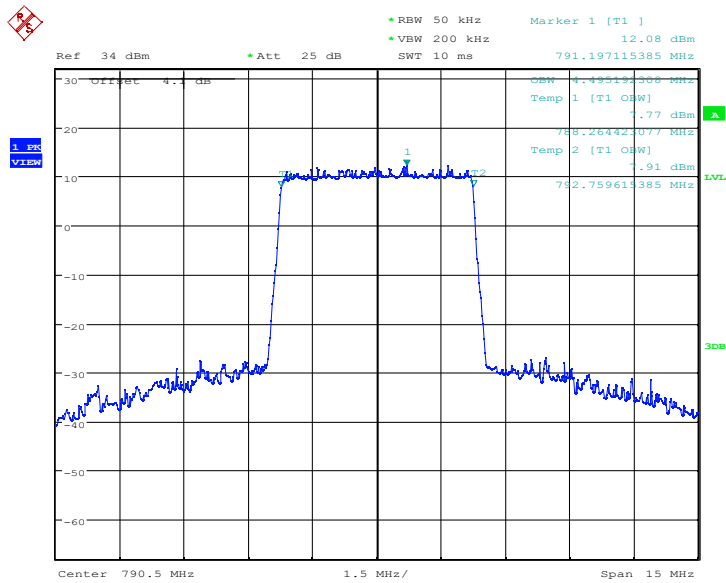


Date: 18.DEC.2024 10:59:19

LTE band 14 , 5MHz Bandwidth,LOW,16QAM (99% BW)

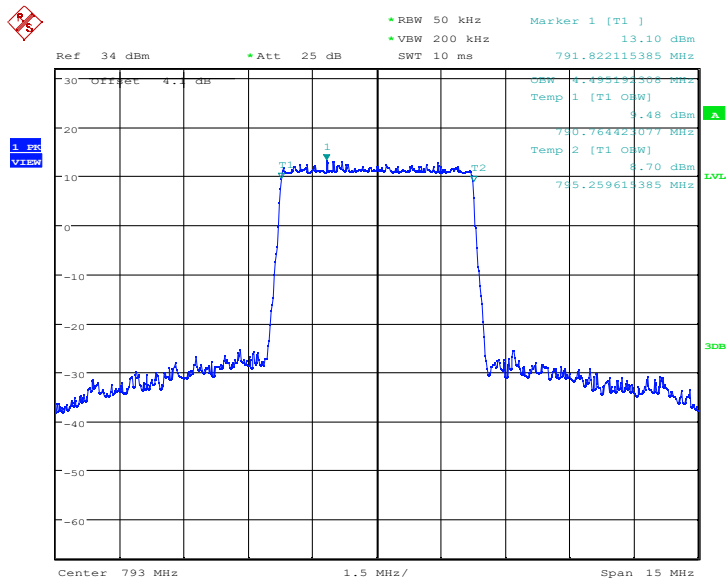
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Date: 18.DEC.2024 10:59:42

LTE band 14 , 5MHz Bandwidth,MID,QPSK (99% BW)

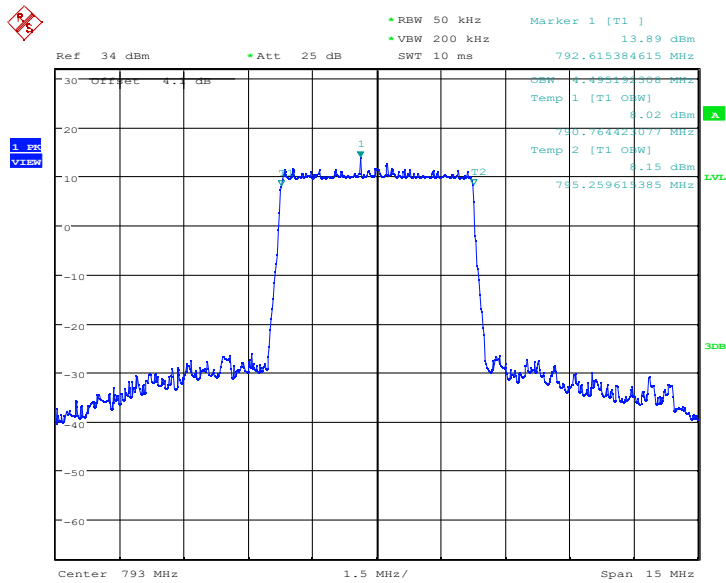


Date: 18.DEC.2024 11:00:09

LTE band 14 , 5MHz Bandwidth,MID,16QAM (99% BW)

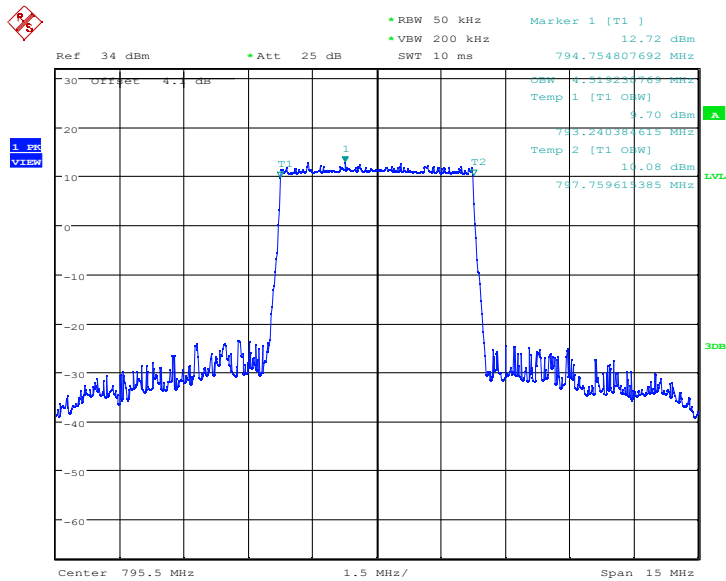
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Date: 18.DEC.2024 11:00:33

LTE band 14 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

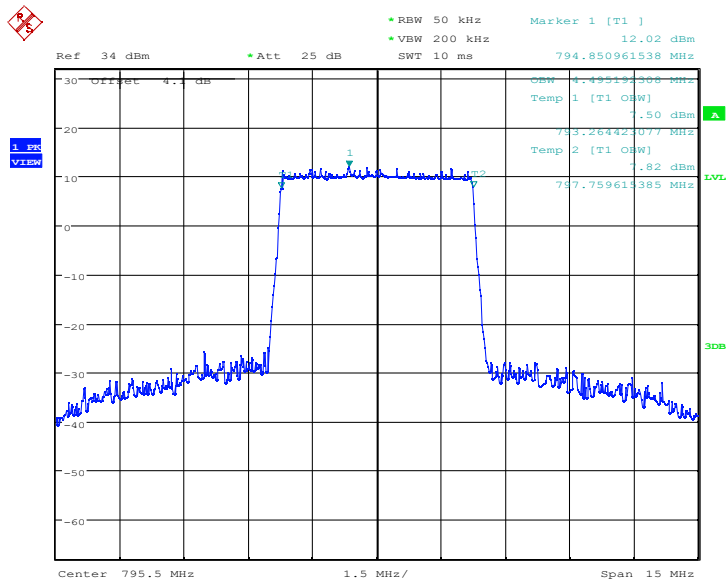


Date: 18.DEC.2024 11:01:02

LTE band 14 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

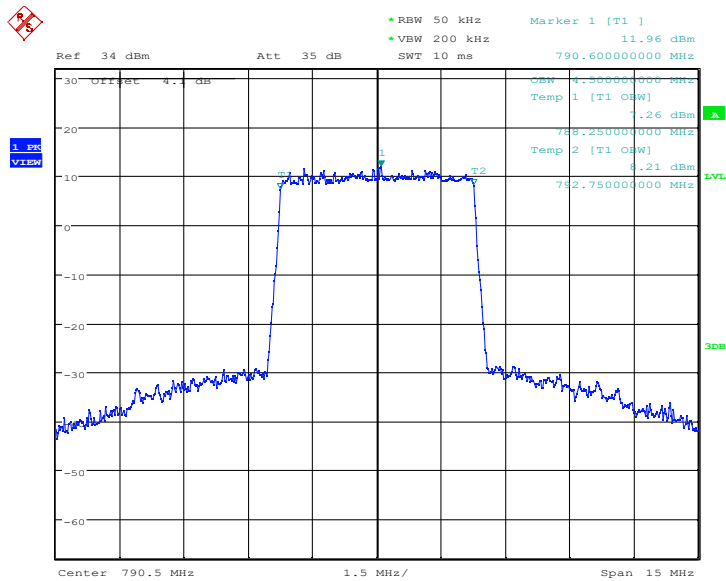
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Date: 18.DEC.2024 11:01:25

LTE band 14 , 5MHz Bandwidth,LOW,64QAM (99% BW)

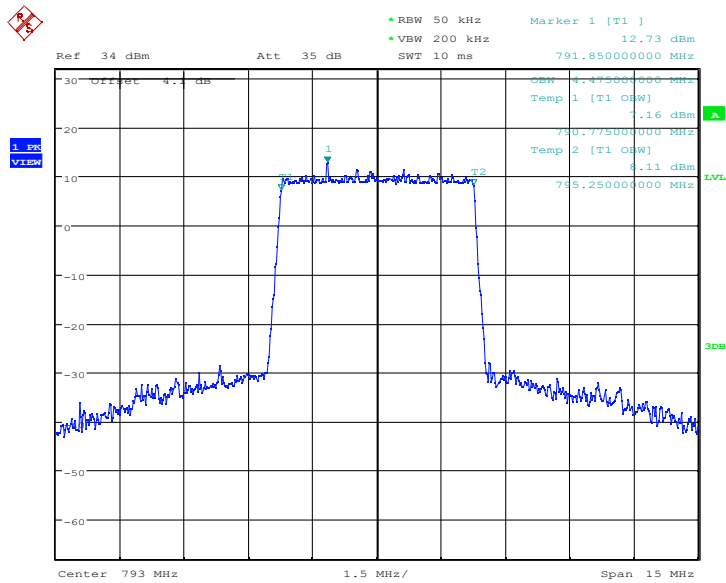


Date: 3.JAN.2025 13:36:22

LTE band 14 , 5MHz Bandwidth,MID,64QAM (99% BW)

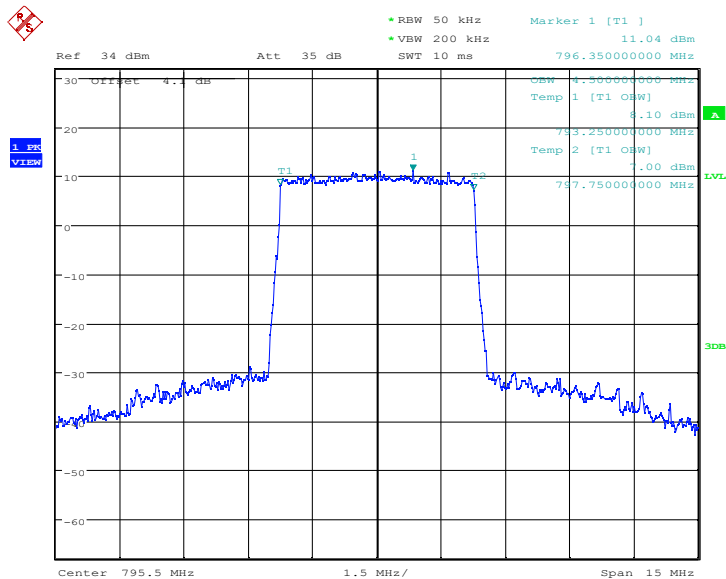
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Date: 3.JAN.2025 13:37:15

LTE band 14 , 5MHz Bandwidth,HIGH,64QAM (99% BW)



Date: 3.JAN.2025 13:37:49

LTE band 14,10MHz(99%)

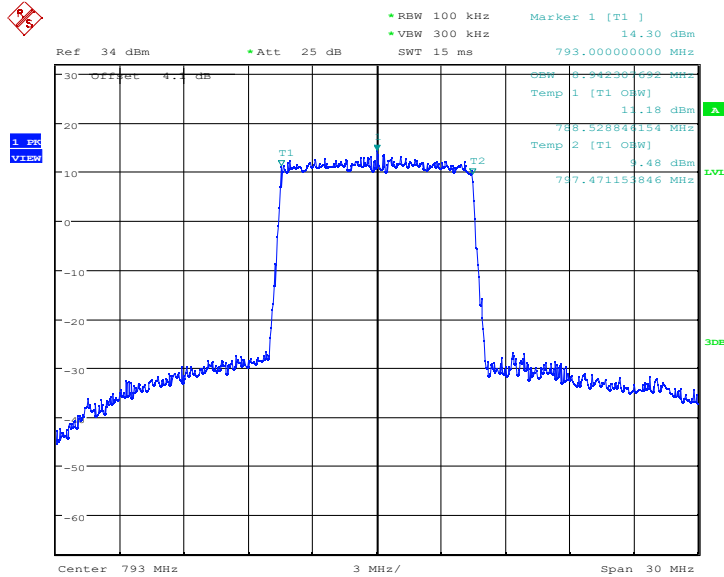
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM

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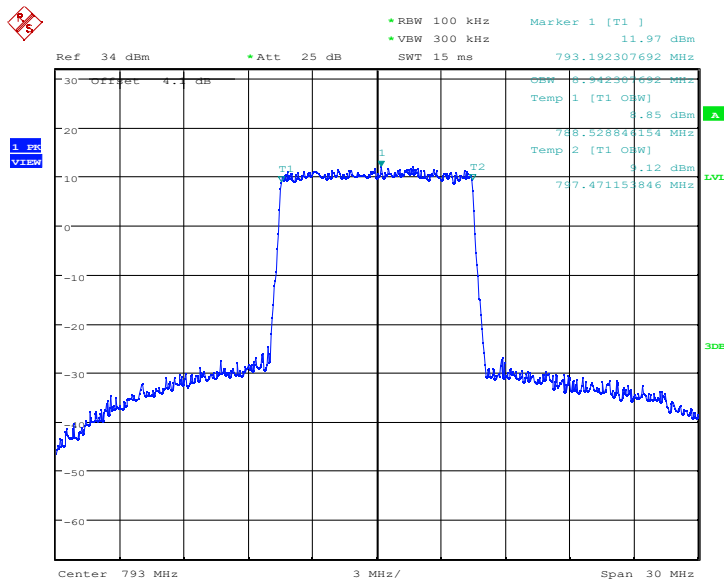
793	8.942	8.942	8.950
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LTE band 14 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 18.DEC.2024 11:02:50

LTE band 14 , 10MHz Bandwidth,MID,16QAM (99% BW)

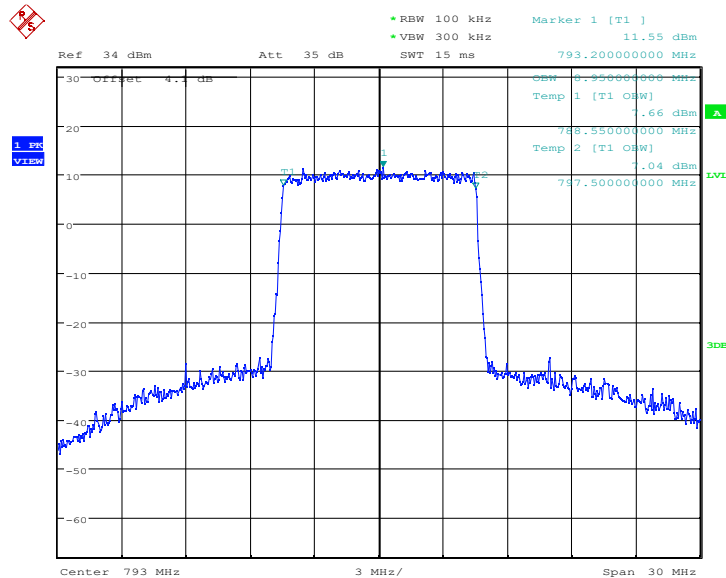


Date: 18.DEC.2024 11:03:14

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LTE band 14 , 10MHz Bandwidth,MID,64QAM (99% BW)



Date: 3.JAN.2025 13:38:43

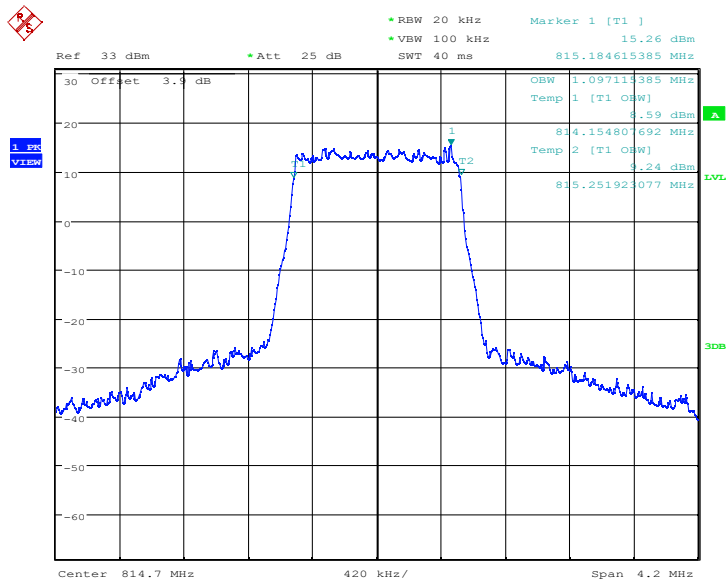
LTE band 26_Part90,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
814.7	1.097	1.090	1.092
819	1.090	1.090	1.092
823.3	1.092	1.092	1.092

LTE band 26 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)

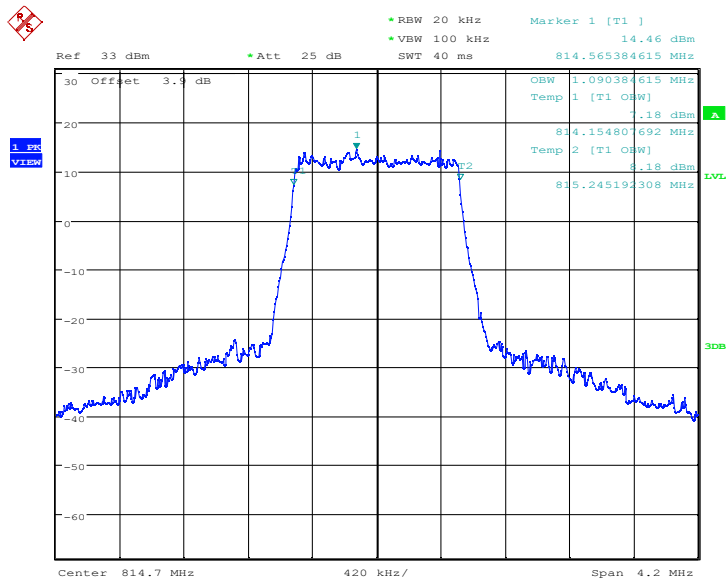
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Date: 18.DEC.2024 11:04:51

LTE band 26 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)

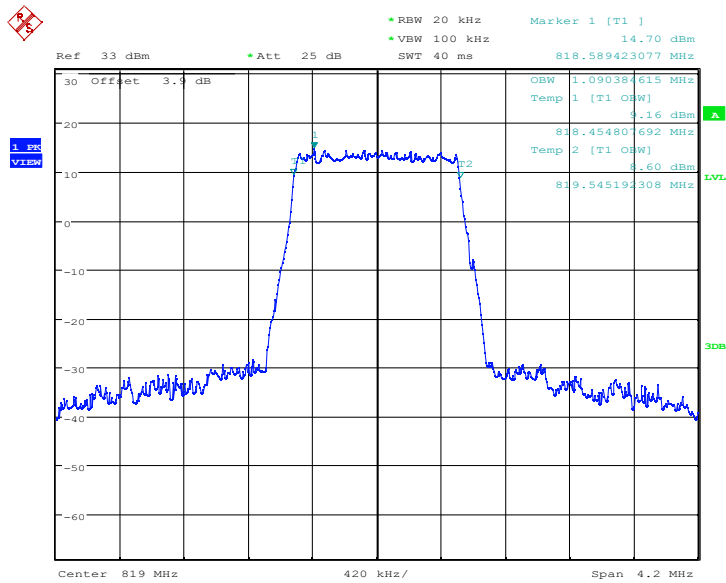


Date: 18.DEC.2024 11:05:15

LTE band 26 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

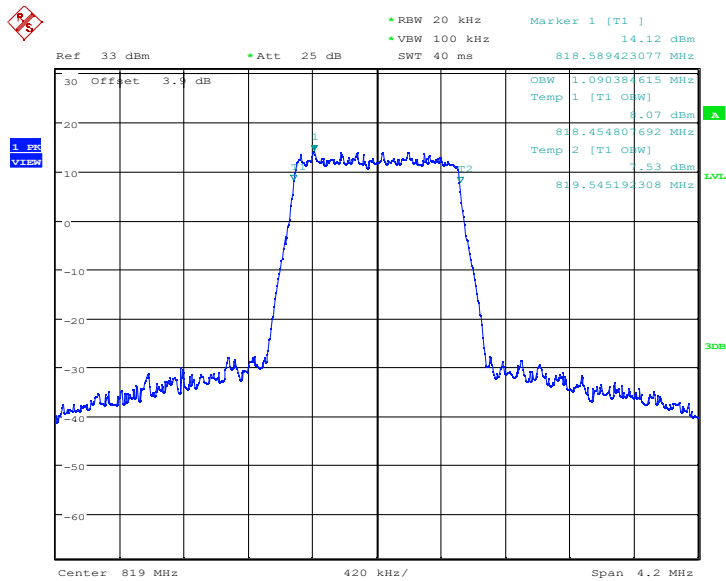
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Date: 18.DEC.2024 11:05:48

LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)

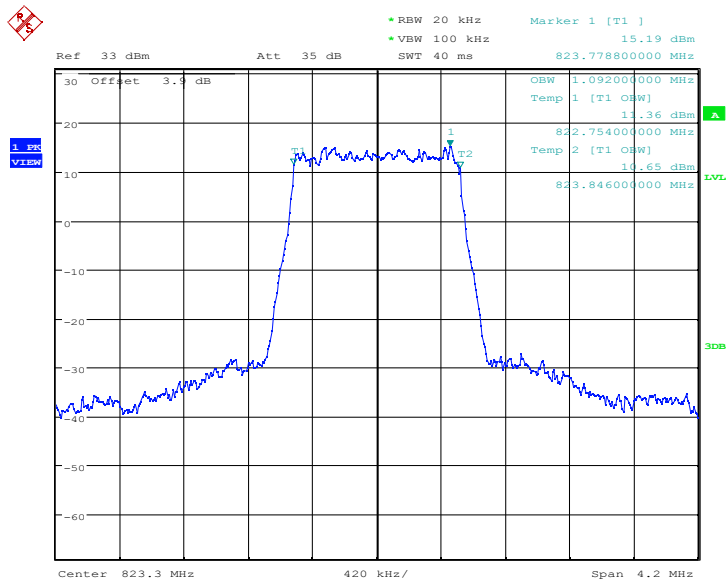


Date: 18.DEC.2024 11:06:17

LTE band 26 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)

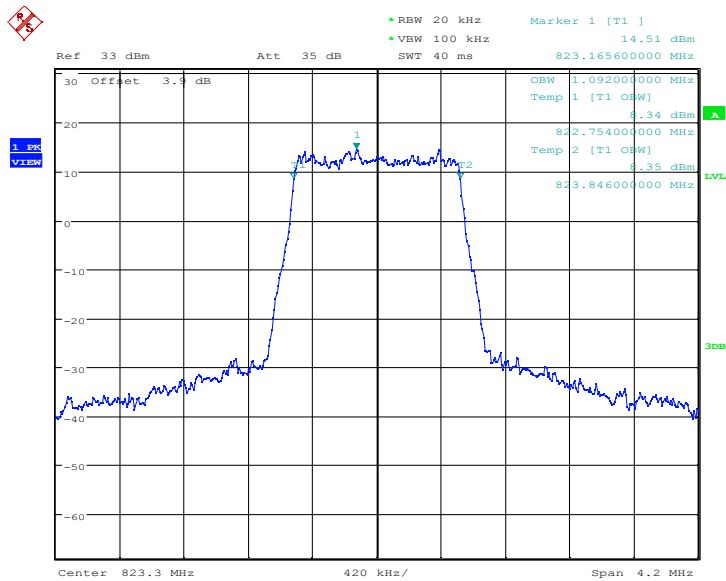
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Date: 18.DEC.2024 17:02:35

LTE band 26 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)

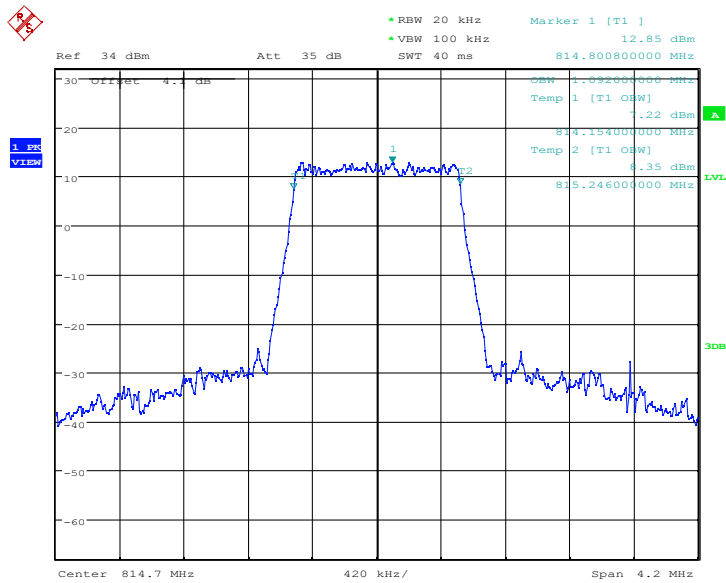


Date: 18.DEC.2024 17:02:57

LTE band 26 , 1.4MHz Bandwidth,LOW,64QAM (99% BW)

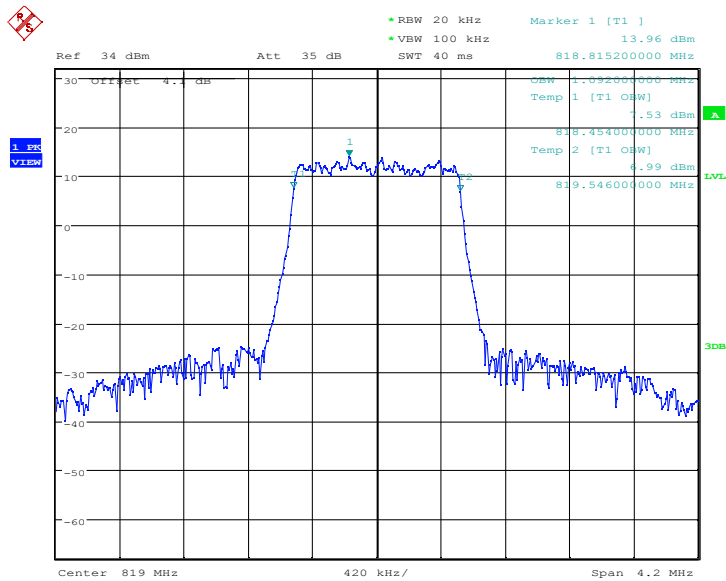
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Date: 3.JAN.2025 13:39:57

LTE band 26 , 1.4MHz Bandwidth,MID,64QAM (99% BW)

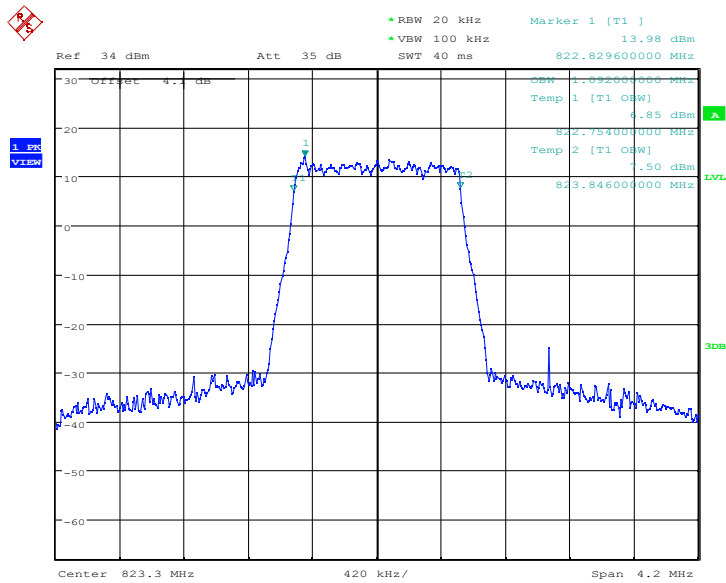


Date: 3.JAN.2025 13:40:24

LTE band 26 , 1.4MHz Bandwidth,HIGH,64QAM (99% BW)

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Date: 3.JAN.2025 13:40:51

LTE band 26_Part90,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
815.5	2.697	2.683	2.685
819	2.683	2.683	2.670
822.5	2.685	2.670	2.700

LTE band 26 , 3MHz Bandwidth,LOW,QPSK (99% BW)

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• RBW 30 kHz
 • VBW 100 kHz
 • Att 25 dB
 • SWT 30 ms

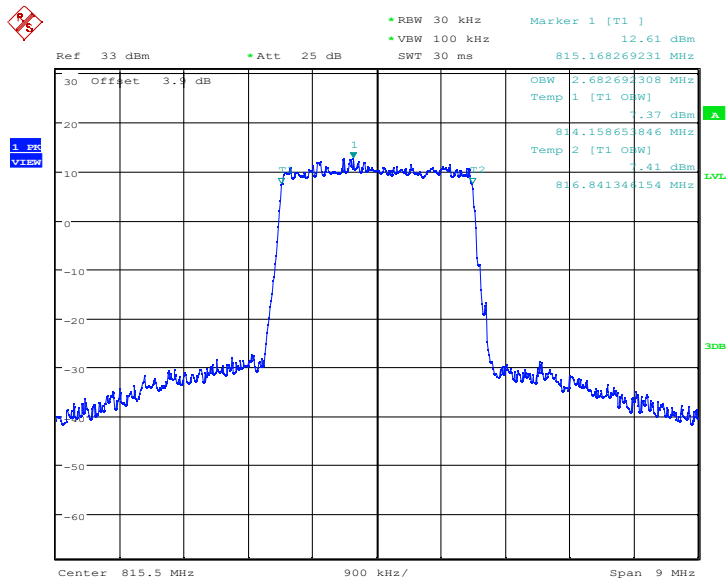
Ref 33 dBm
 Marker 1 [T1]
 14.86 dBm
 815.846153846 MHz

Offset 3.0 dB
 Center 815.5 MHz
 900 kHz/
 Span 9 MHz

Marker	Frequency (MHz)	Level (dBm)
Marker 1 [T1]	814.15865846	11.55
Marker 2 [T1 OBW]	816.85576231	11.93

1 dB VIEW
 A
 3 dB
 LVL

LTE band 26 , 3MHz Bandwidth,LOW,16QAM (99% BW)



LTE band 26 , 3MHz Bandwidth,MID,QPSK (99% BW)



Ref 33 dBm Att 25 dB SWT 30 ms RBW 30 kHz VBW 100 kHz Marker 1 [T1] 12.82 dBm 818.711538462 MHz

Offset 3.0 dB

VIEW

3 dB

VIEW

3 dB

Center 819 MHz 900 kHz/ Span 9 MHz

Offset 3.0 dB

Temp 1 [T1] 12.82 dBm 818.711538462 MHz

Temp 2 [T1] 10.65 dBm 820.341344154 MHz

T1

1

T2

3 dB

VIEW

* RBW 30 kHz
 * VBW 100 kHz
 * Att 25 dB
 * SWT 30 ms

Ref 33 dBm
 Offset 3.9 dB

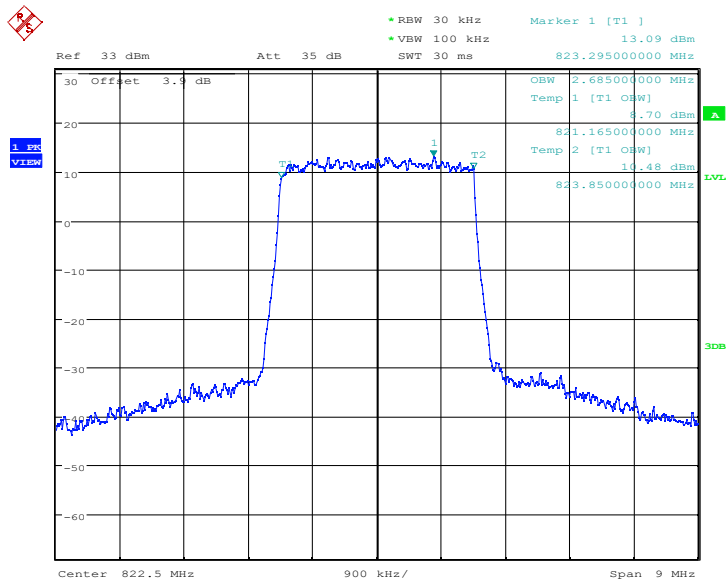
Marker 1 [T1]
 12.20 dBm
 819.475961538 MHz

1. dB
 VBW

A
 LVL
 3dB

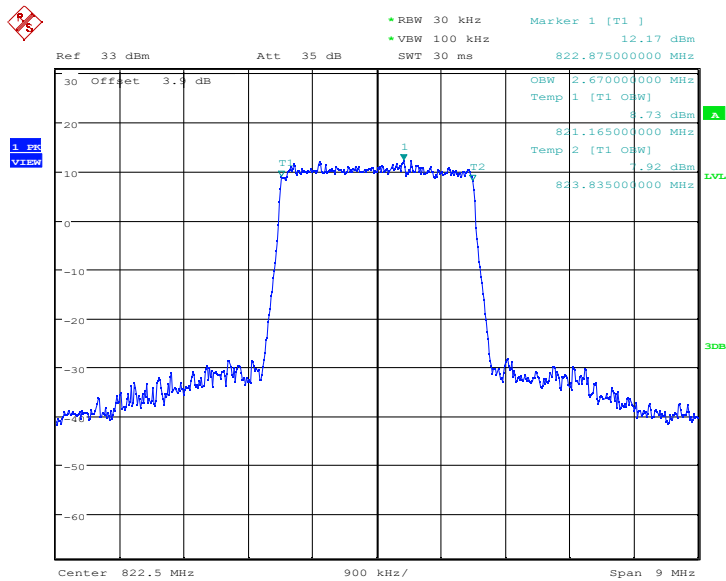
Center 819 MHz
 900 kHz/
 Span 9 MHz

Page 64 of 278



Date: 18.DEC.2024 17:03:33

LTE band 26 , 3MHz Bandwidth,HIGH,16QAM (99% BW)

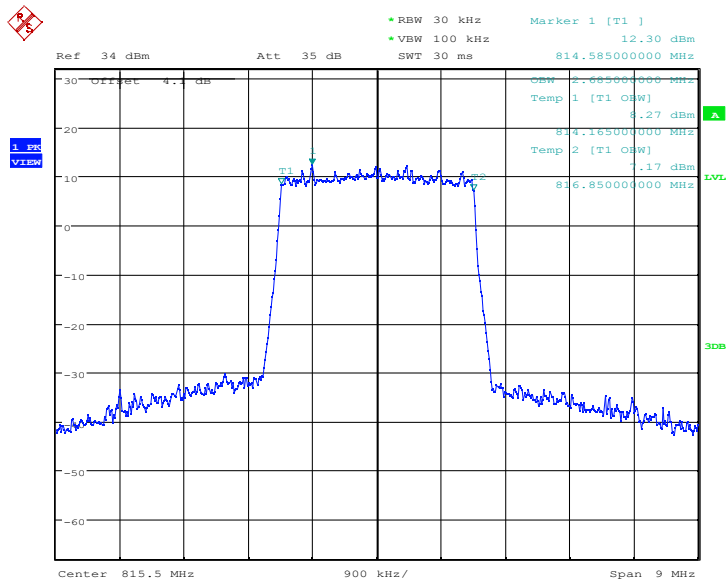


Date: 18.DEC.2024 17:03:56

LTE band 26 , 3MHz Bandwidth,LOW,64QAM (99% BW)

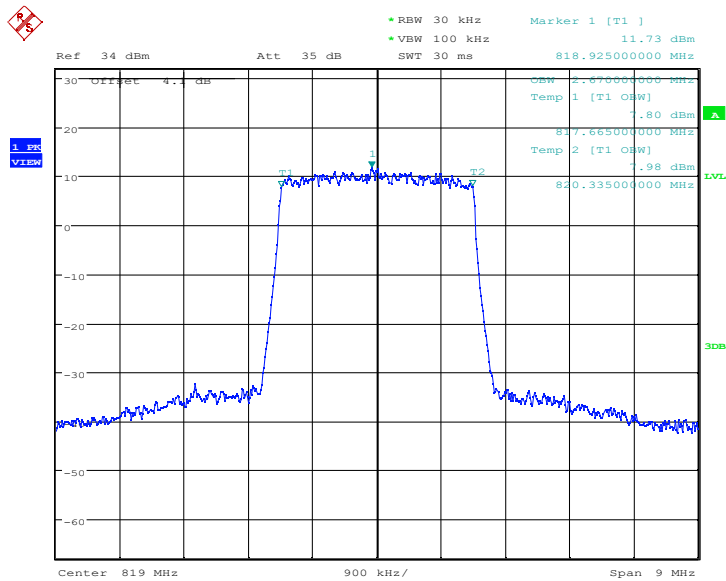
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Date: 3.JAN.2025 13:42:40

LTE band 26 , 3MHz Bandwidth,MID,64QAM (99% BW)

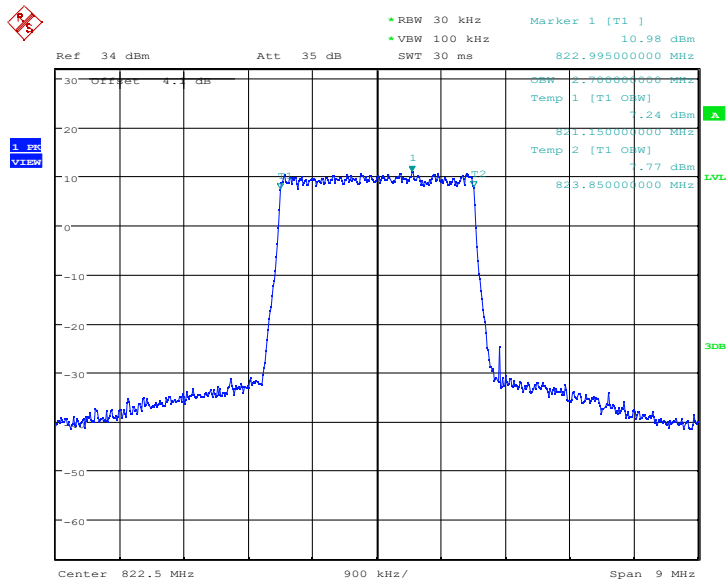


Date: 3.JAN.2025 13:43:07

LTE band 26 , 3MHz Bandwidth,HIGH,64QAM (99% BW)

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Date: 3.JAN.2025 13:43:37

LTE band 26_Part90,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
816.5	4.495	4.471	4.500
819	4.471	4.495	4.500
821.5	4.471	4.495	4.500

LTE band 26 , 5MHz Bandwidth,LOW,QPSK (99% BW)

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Date: 18.DEC.2024 11:11:03

Date: 18.DEC.2024 11:11:26

Page 68 of 278



The screenshot shows a Spectrum Analyzer interface with a blue trace representing the signal spectrum. The trace shows a flat baseline at approximately -45 dBm, with a sharp rise to a plateau at approximately 12 dBm between 815 MHz and 823 MHz, and a sharp fall back to the baseline. A peak is marked with a vertical line and labeled '1' at approximately 819 MHz. The grid has a horizontal span of 15 MHz and a vertical range of 30 dB. The center frequency is 819 MHz.

Parameters displayed on the right side of the screen:

- Ref 33 dBm
- Att 25 dB
- SWT 10 ms
- Marker 1 [T1]
- 13.33 dBm
- 818.663461538 MHz
- OBW 4.47115846 MHz
- Temp 1 [T1 OBW] 1.80 dBm
- 816.76442077 MHz
- Temp 2 [T1 OBW] 1.34 dBm
- 821.235574923 MHz

Parameters displayed at the bottom of the screen:

- Center 819 MHz
- 1.5 MHz/
- Span 15 MHz

On the left side, there is a red 'X' icon and a blue button labeled 'A DC VIEW'.

The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a signal with two markers, T1 and T2, indicating a specific frequency range. The signal is a rectangular pulse centered at 819 MHz. The y-axis represents power in dBm, ranging from -60 to 30. The x-axis represents frequency in MHz, ranging from 815 to 823. The signal level is approximately 10 dBm. The noise floor is around -35 dBm. The bandwidth is 15 MHz. The resolution bandwidth (RBW) is 50 kHz. The video bandwidth (VBW) is 200 kHz. The sweep time is 10 ms. The center frequency is 819 MHz. The span is 15 MHz. The offset is 3.9 dB. The reference level is 33 dBm. The attenuation is 25 dB. The marker 1 [T1] is at 816.74038 MHz with a power of -5.53 dBm. The marker 2 [T2] is at 821.23557 MHz with a power of -5.57 dBm. The signal is labeled '1.500 V21BW'.

Ref 33 dBm Att 25 dB RBW 50 kHz VBW 200 kHz SWT 10 ms

Marker 1 [T1] 12.13 dBm

Marker 2 [T2] 12.13 dBm

Center 819 MHz 1.5 MHz/ Span 15 MHz

Offset 3.9 dB

OBW 4.495194308 MHz

Temp 1 [T1 OBW] -5.53 dBm

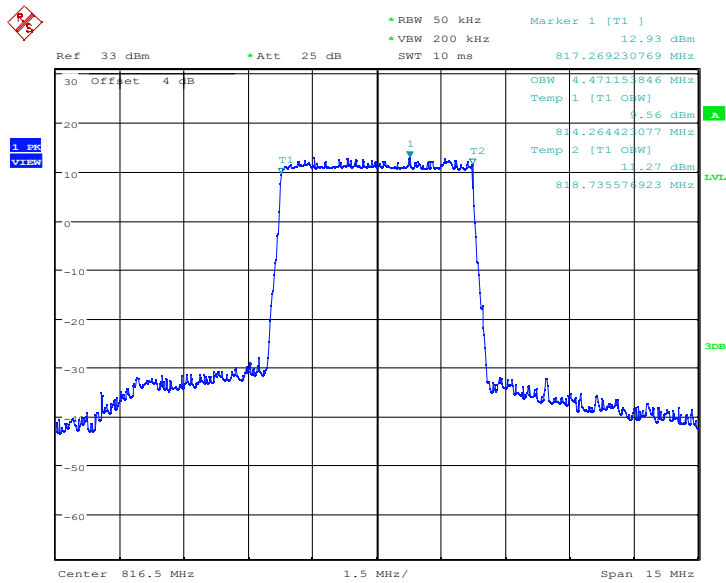
816.740384615 MHz

Temp 2 [T2 OBW] -5.57 dBm

821.235574923 MHz

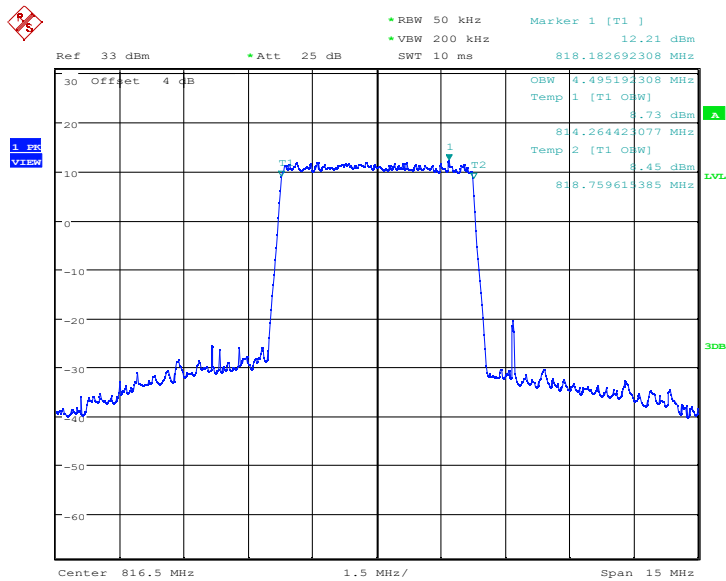
1.500 V21BW

Page 69 of 278



Date: 18.DEC.2024 11:13:36

LTE band 26 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

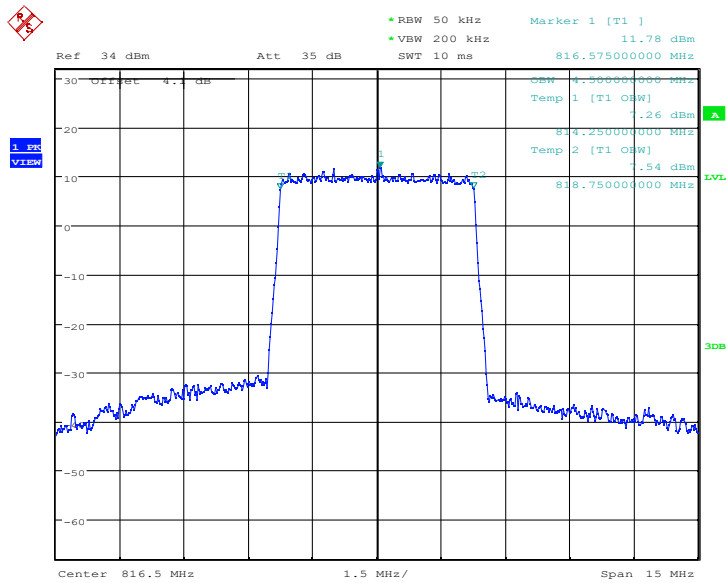


Date: 18.DEC.2024 11:27:50

LTE band 26 , 5MHz Bandwidth,LOW,64QAM (99% BW)

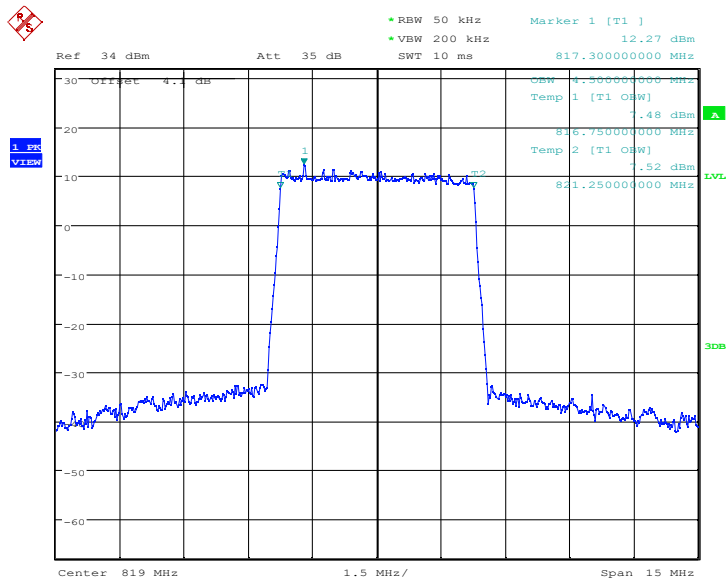
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Date: 3.JAN.2025 13:44:25

LTE band 26 , 5MHz Bandwidth,MID,64QAM (99% BW)

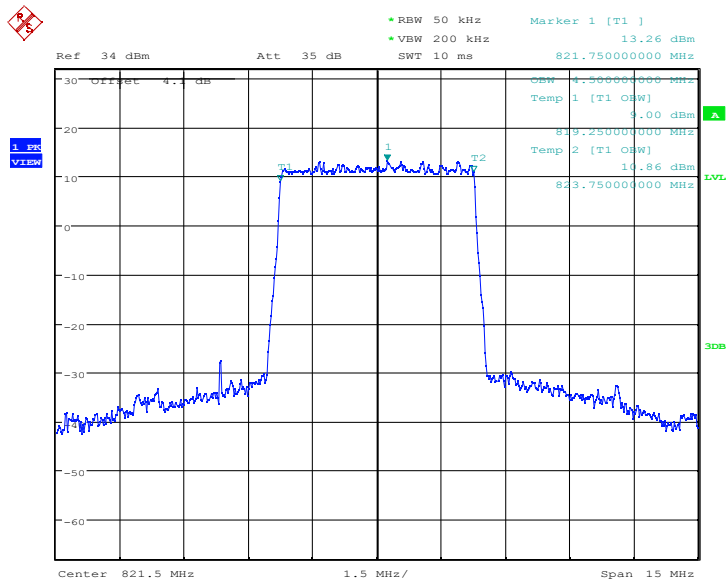


Date: 3.JAN.2025 13:45:10

LTE band 26 , 5MHz Bandwidth,HIGH,64QAM (99% BW)

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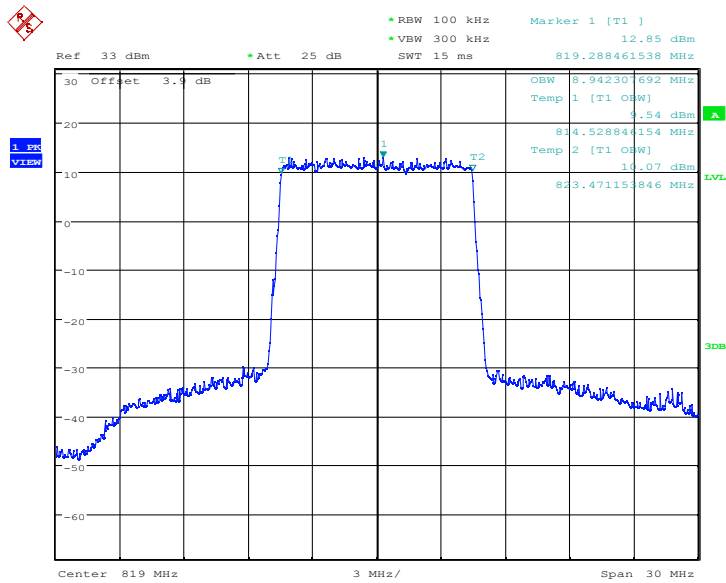


Date: 3.JAN.2025 13:45:42

LTE band 26_Part90,10MHz(99%)

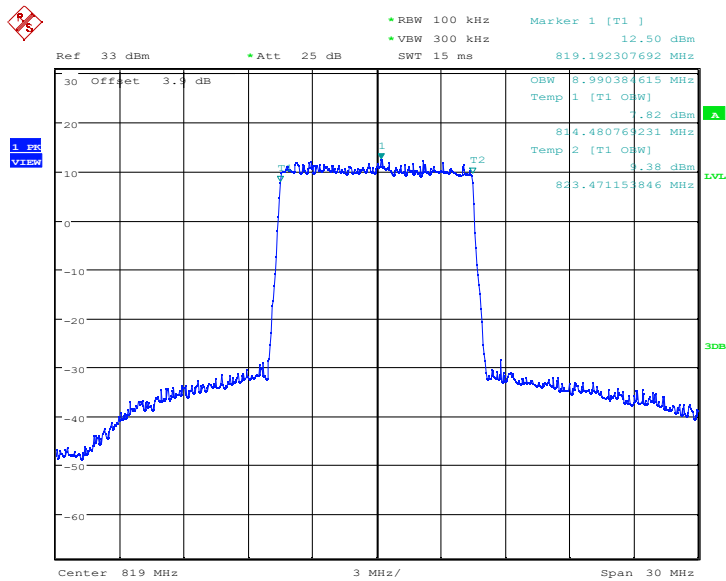
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
819	8.942	8.990	9.000

LTE band 26 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 18.DEC.2024 11:29:18

LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)

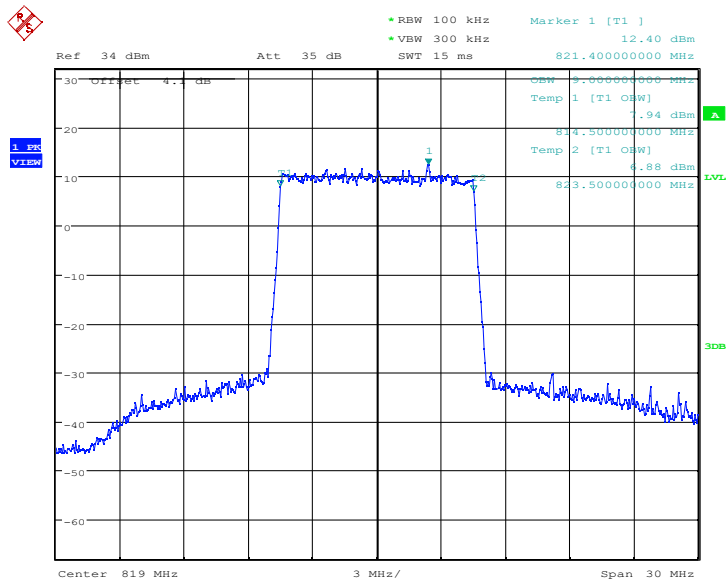


Date: 18.DEC.2024 11:29:49

LTE band 26 , 10MHz Bandwidth,MID,64QAM (99% BW)

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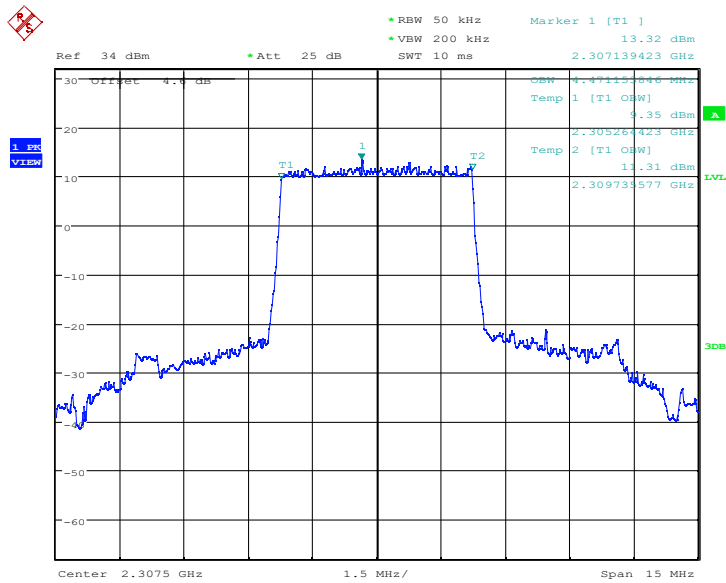


Date: 3.JAN.2025 13:46:47

LTE band 30,5MHz(99%)

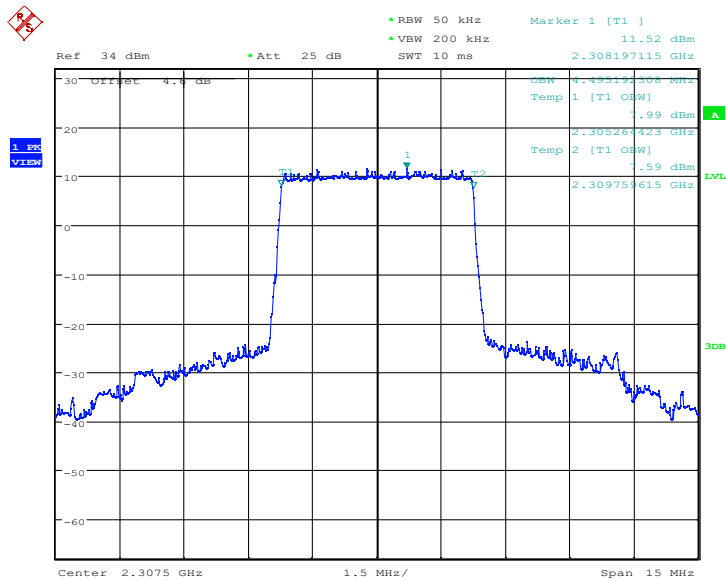
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
2307.5	4.471	4.495	4.500
2310	4.471	4.471	4.500
2312.5	4.495	4.471	4.500

LTE band 30 , 5MHz Bandwidth,LOW,QPSK (99% BW)



Date: 18.DEC.2024 11:31:30

LTE band 30 , 5MHz Bandwidth,LOW,16QAM (99% BW)

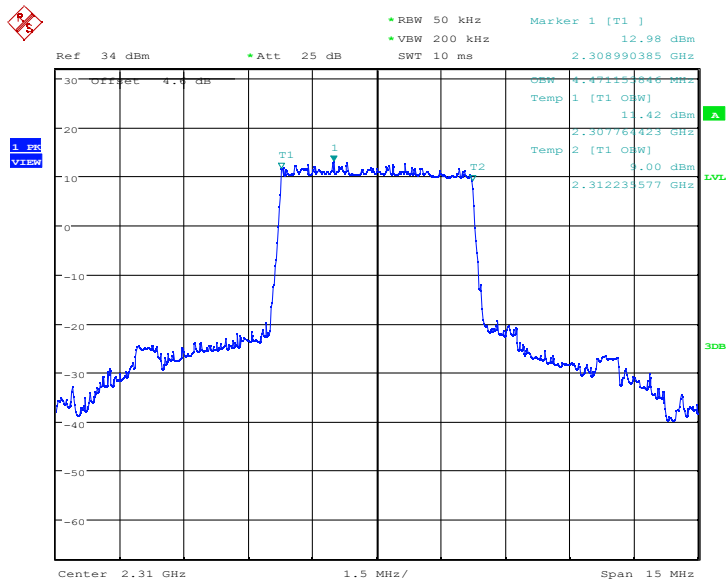


Date: 18.DEC.2024 11:31:51

LTE band 30 , 5MHz Bandwidth,MID,QPSK (99% BW)

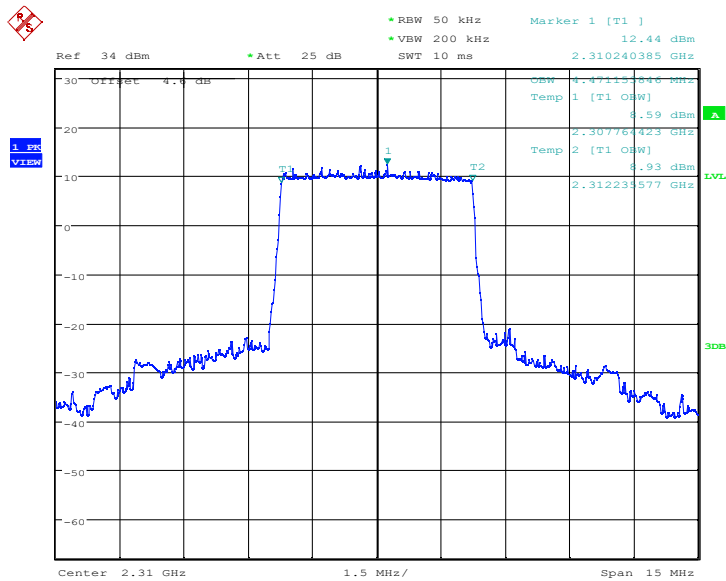
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Date: 18.DEC.2024 11:32:19

LTE band 30 , 5MHz Bandwidth,MID,16QAM (99% BW)

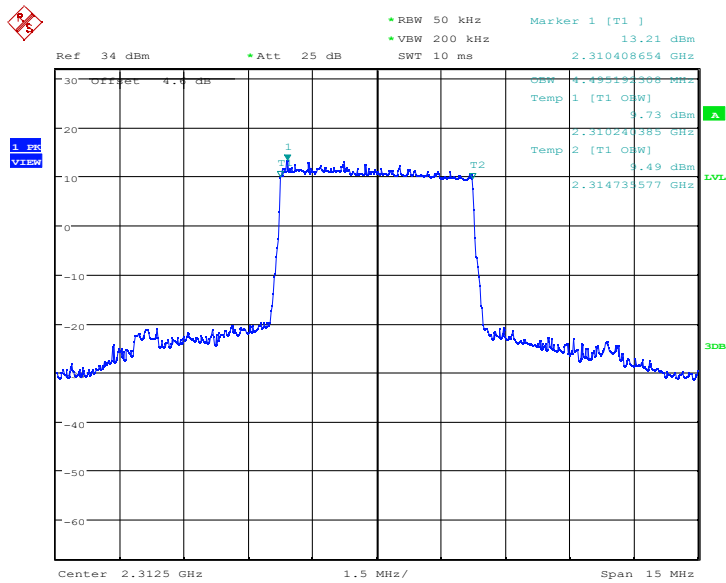


Date: 18.DEC.2024 11:32:42

LTE band 30 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

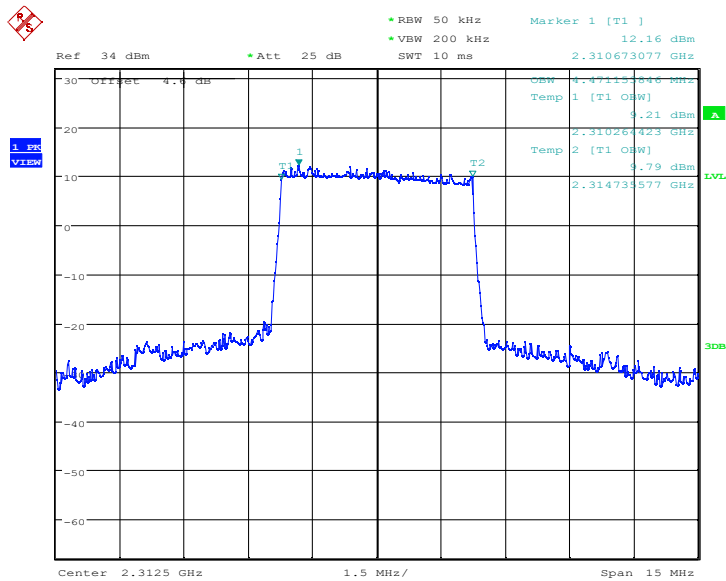
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Date: 18.DEC.2024 11:33:11

LTE band 30 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

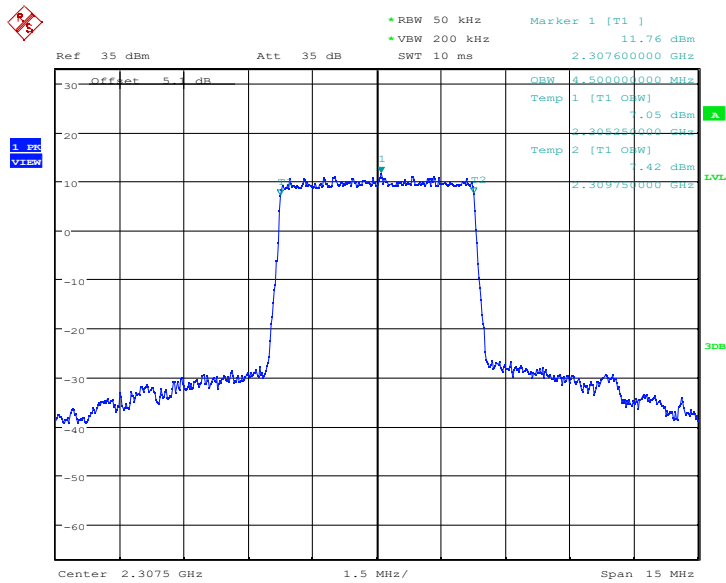


Date: 18.DEC.2024 11:33:35

LTE band 30 , 5MHz Bandwidth,LOW,64QAM (99% BW)

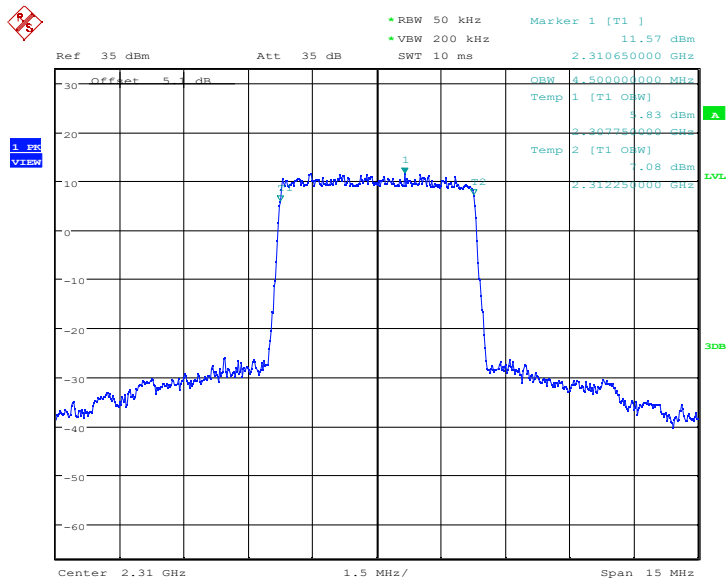
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Date: 3.JAN.2025 15:06:36

LTE band 30 , 5MHz Bandwidth,MID,64QAM (99% BW)

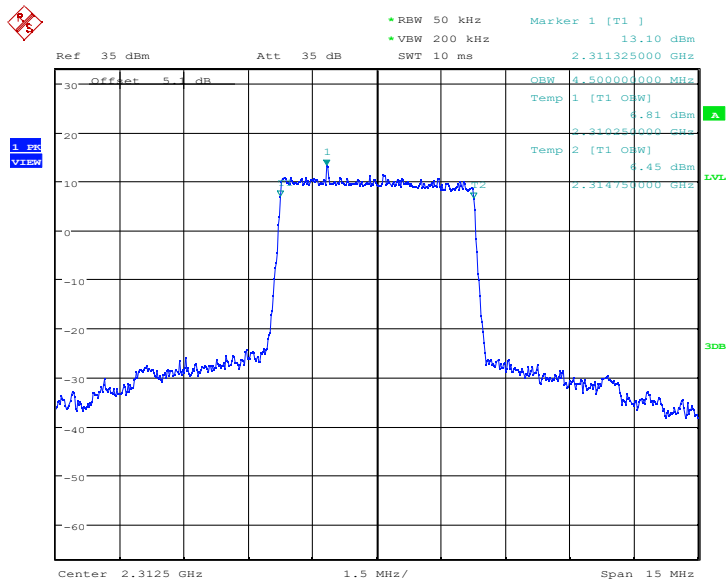


Date: 3.JAN.2025 13:49:13

LTE band 30 , 5MHz Bandwidth,HIGH,64QAM (99% BW)

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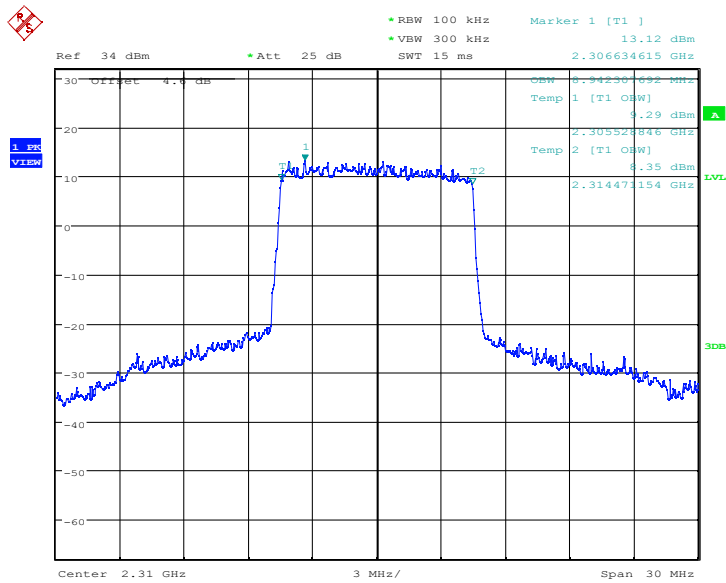


Date: 3.JAN.2025 13:49:46

LTE band 30,10MHz(99%)

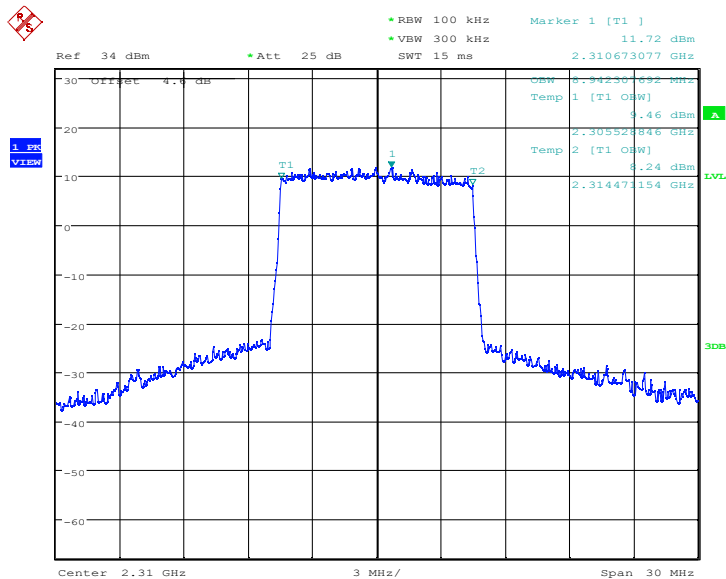
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
2310	8.942	8.942	8.950

LTE band 30 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 18.DEC.2024 11:36:34

LTE band 30 , 10MHz Bandwidth,MID,16QAM (99% BW)

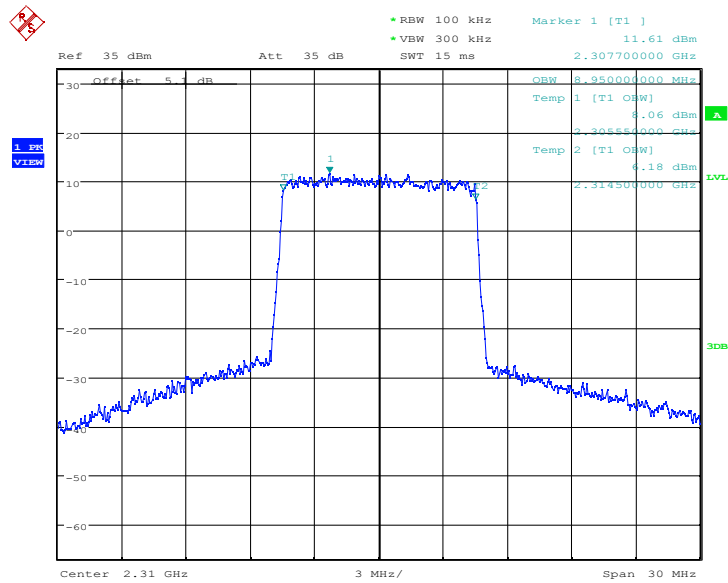


Date: 18.DEC.2024 11:37:00

LTE band 30 , 10MHz Bandwidth,MID,64QAM (99% BW)

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Date: 3.JAN.2025 13:50:41

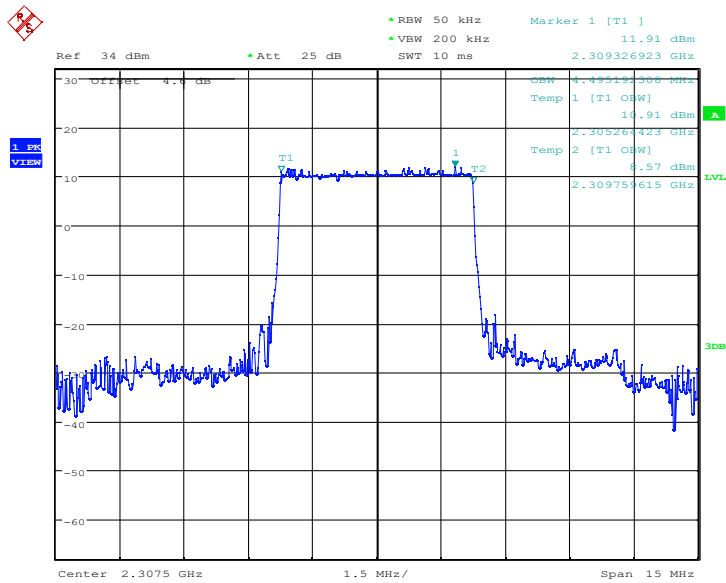
LTE band 40L,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
2307.5	4.495	4.495	4.475
2310	4.495	4.495	4.475
2312.5	4.471	4.471	4.475

LTE band 40 , 5MHz Bandwidth,LOW,QPSK (99% BW)

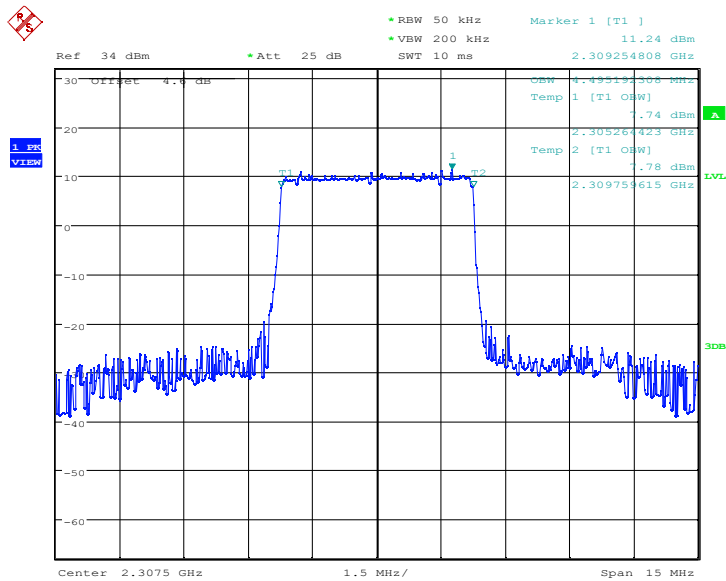
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Date: 18.DEC.2024 11:39:18

LTE band 40 , 5MHz Bandwidth,LOW,16QAM (99% BW)

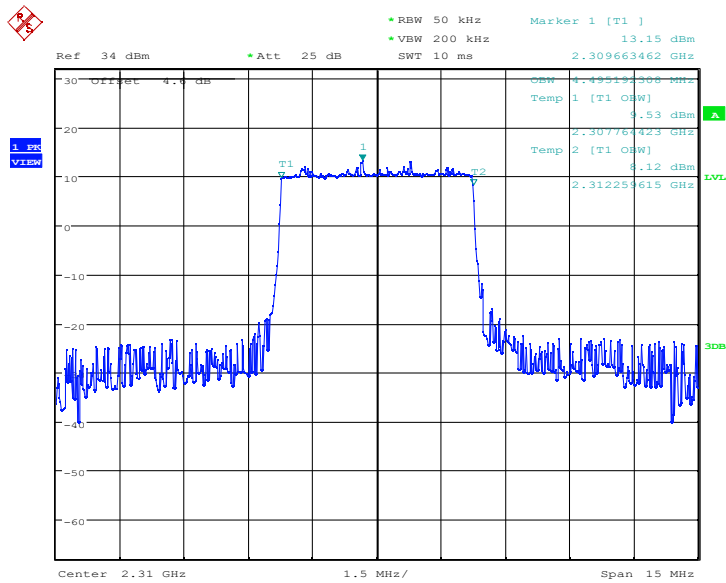


Date: 18.DEC.2024 11:39:39

LTE band 40 , 5MHz Bandwidth,MID,QPSK (99% BW)

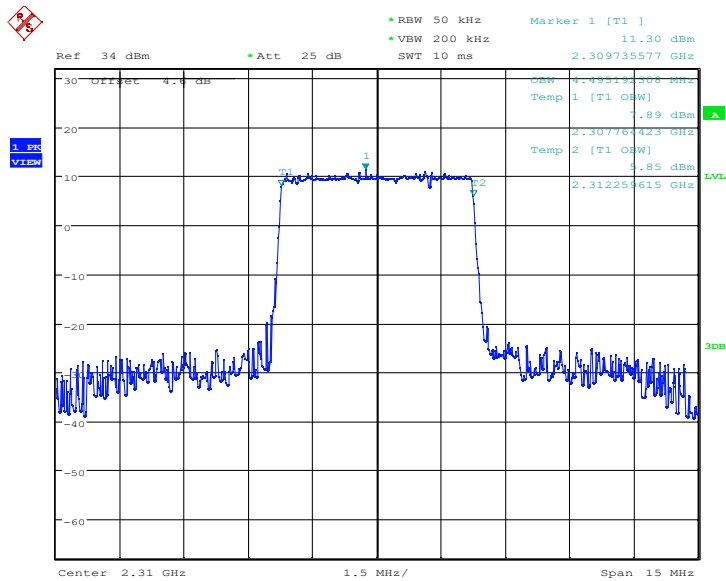
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Date: 18.DEC.2024 11:40:05

LTE band 40 , 5MHz Bandwidth,MID,16QAM (99% BW)

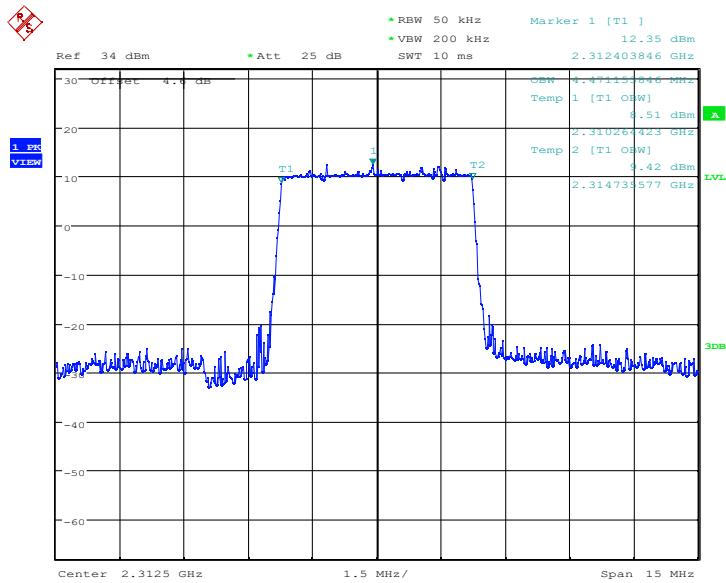


Date: 18.DEC.2024 11:40:30

LTE band 40 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

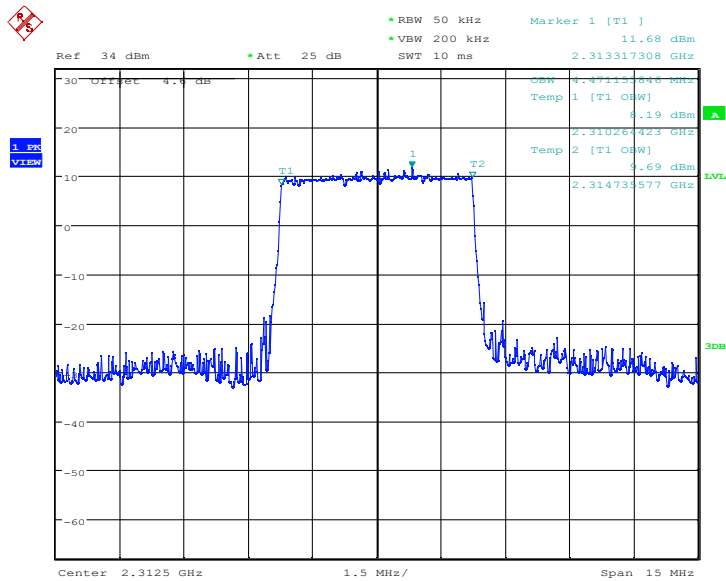
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Date: 18.DEC.2024 11:40:56

LTE band 40 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

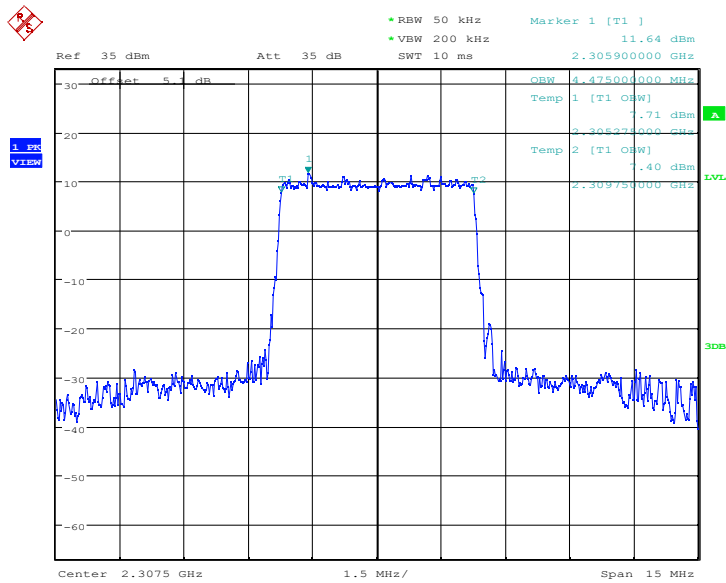


Date: 18.DEC.2024 11:41:17

LTE band 40 , 5MHz Bandwidth,LOW,64QAM (99% BW)

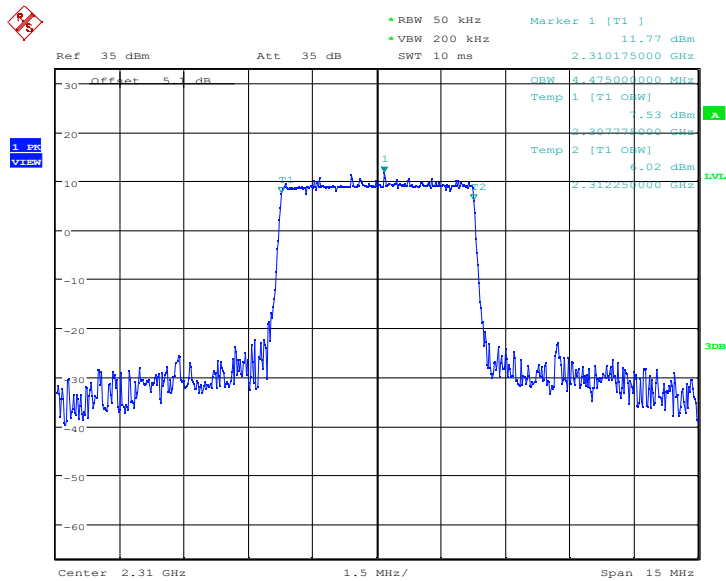
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Date: 3.JAN.2025 13:51:54

LTE band 40 , 5MHz Bandwidth,MID,64QAM (99% BW)

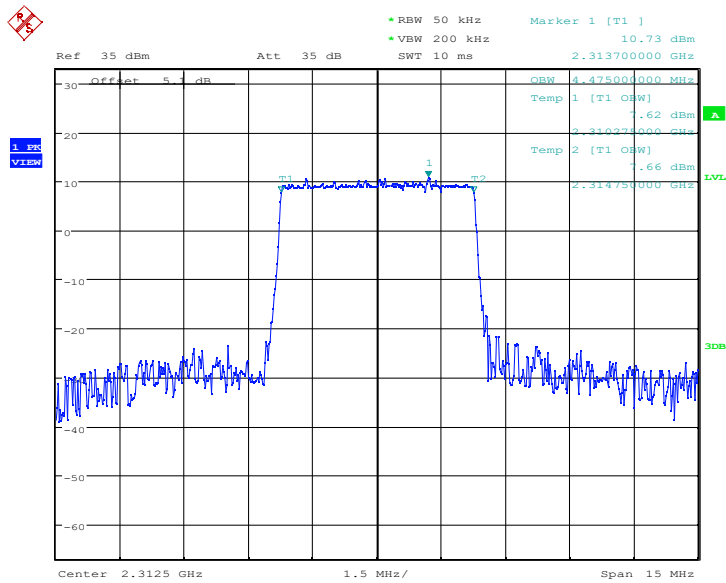


Date: 3.JAN.2025 13:52:21

LTE band 40 , 5MHz Bandwidth,HIGH,64QAM (99% BW)

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

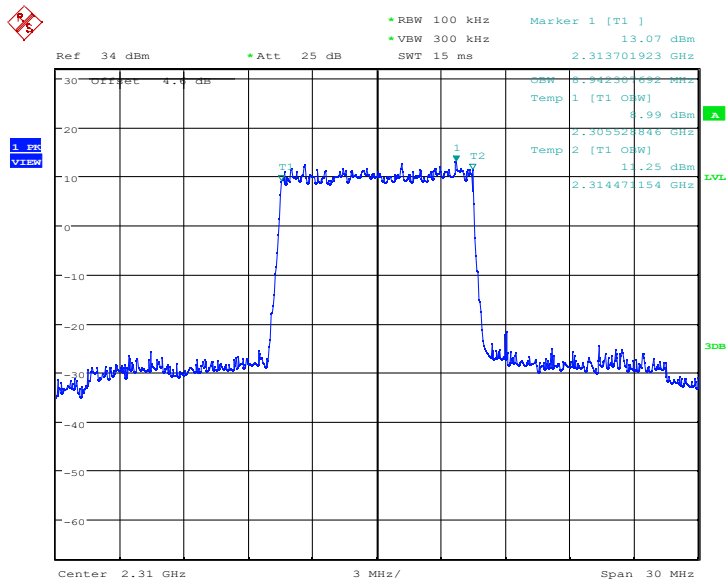


Date: 3.JAN.2025 13:52:55

LTE band 40L,10MHz(99%)

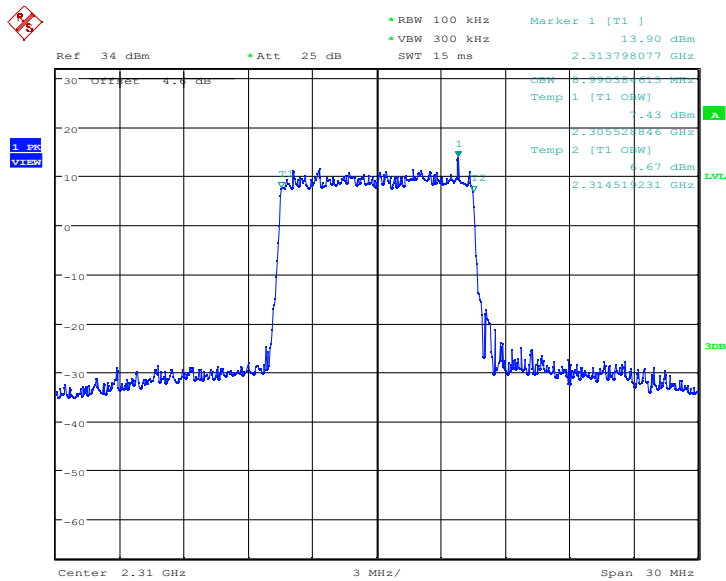
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
2310	8.942	8.990	8.950

LTE band 40 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 18.DEC.2024 12:17:53

LTE band 40 , 10MHz Bandwidth,MID,16QAM (99% BW)

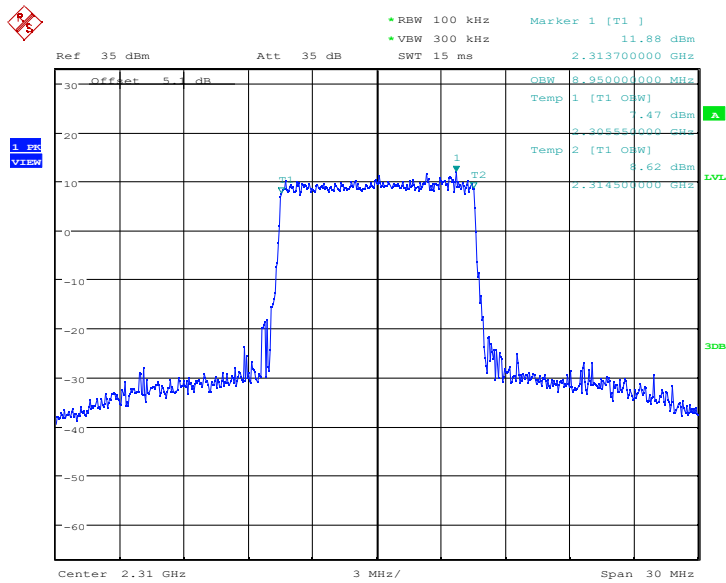


Date: 18.DEC.2024 11:43:06

LTE band 40 , 10MHz Bandwidth,MID,64QAM (99% BW)

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Date: 3.JAN.2025 13:53:54

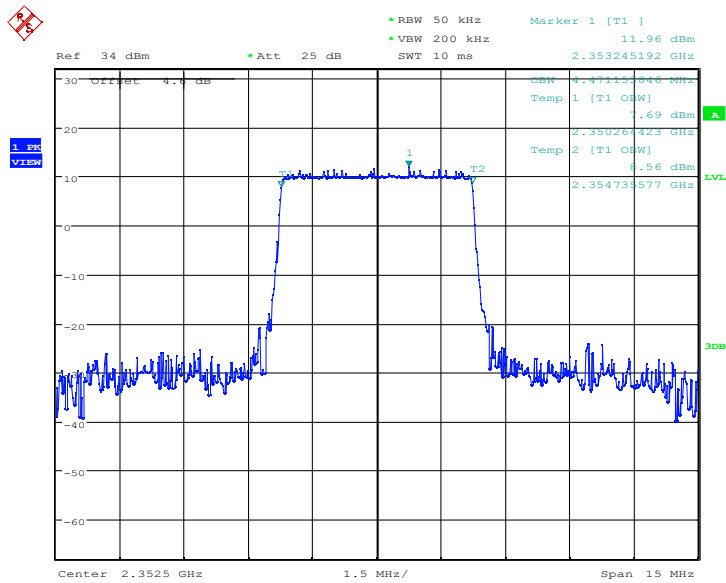
LTE band 40H,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
2352.5	4.471	4.471	4.475
2355	4.495	4.495	4.500
2357.5	4.495	4.495	4.475

LTE band 40 , 5MHz Bandwidth,LOW,QPSK (99% BW)

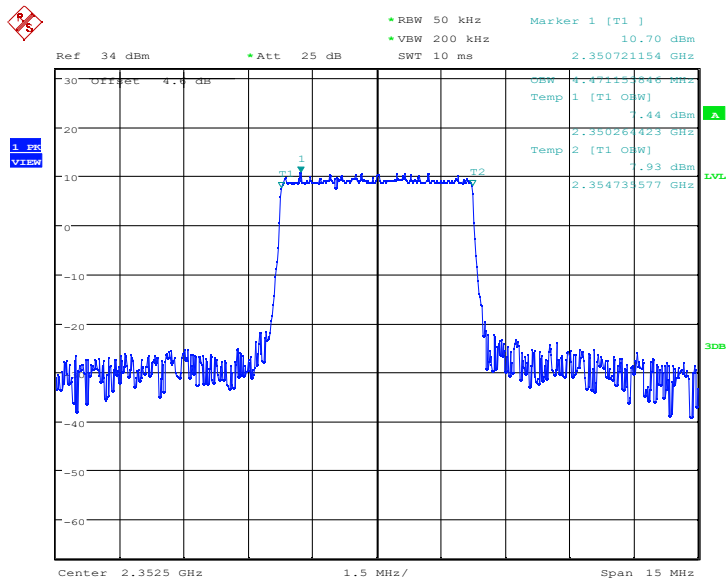
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Date: 18.DEC.2024 11:44:28

LTE band 40 , 5MHz Bandwidth,LOW,16QAM (99% BW)

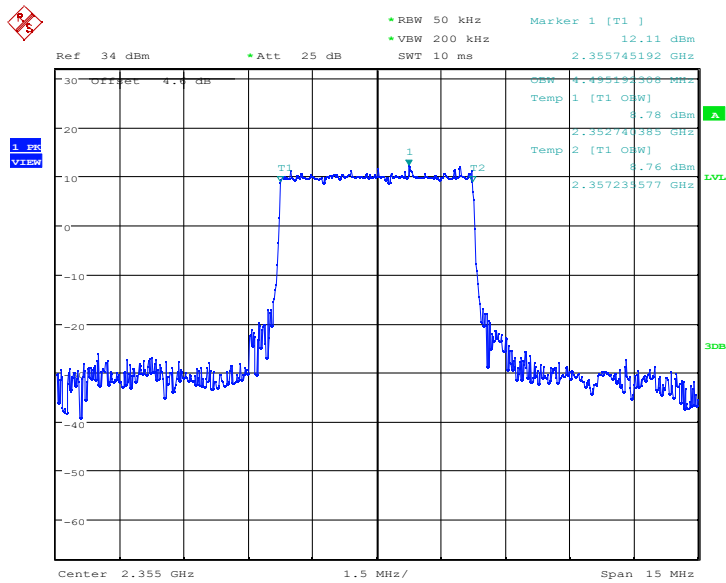


Date: 18.DEC.2024 11:44:53

LTE band 40 , 5MHz Bandwidth,MID,QPSK (99% BW)

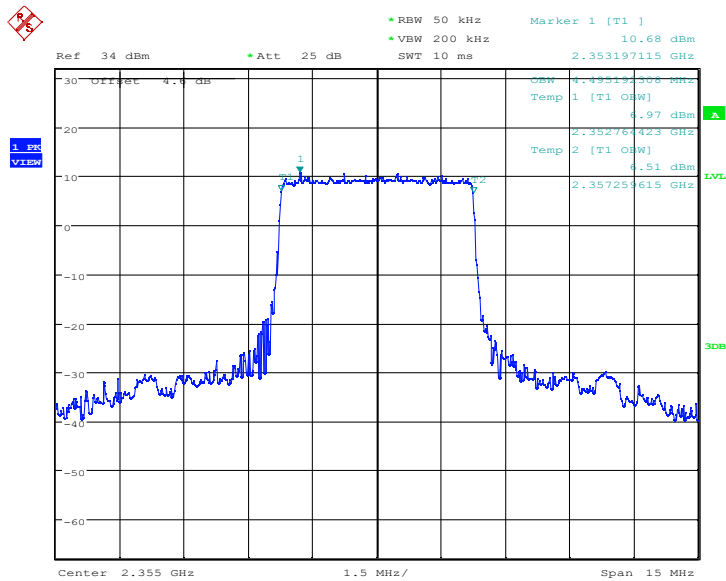
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Date: 18.DEC.2024 11:45:19

LTE band 40 , 5MHz Bandwidth,MID,16QAM (99% BW)

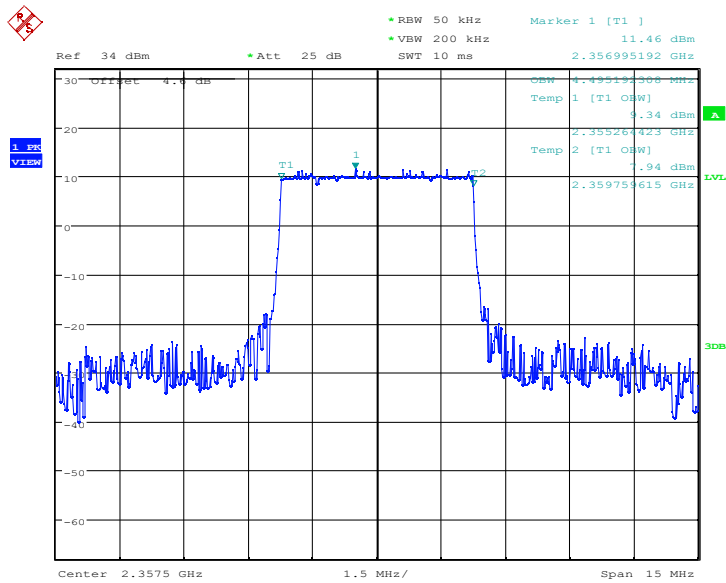


Date: 18.DEC.2024 11:45:45

LTE band 40 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

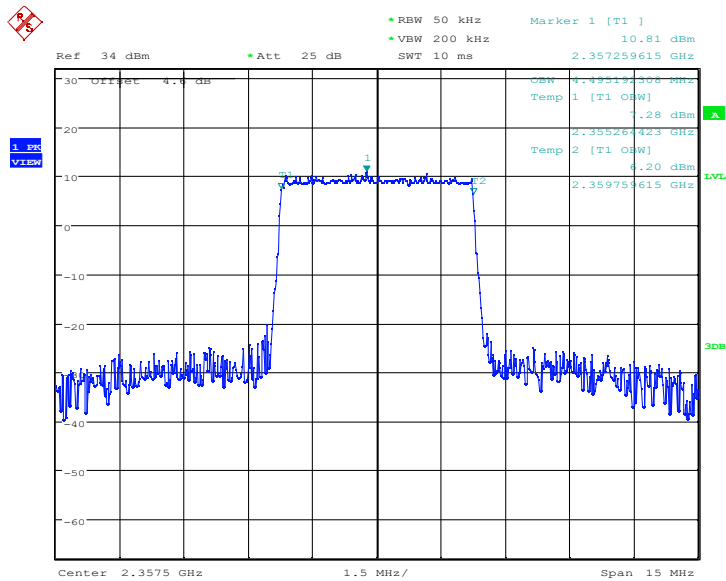
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Date: 18.DEC.2024 11:46:13

LTE band 40 , 5MHz Bandwidth,HIGH,16QAM (99% BW)

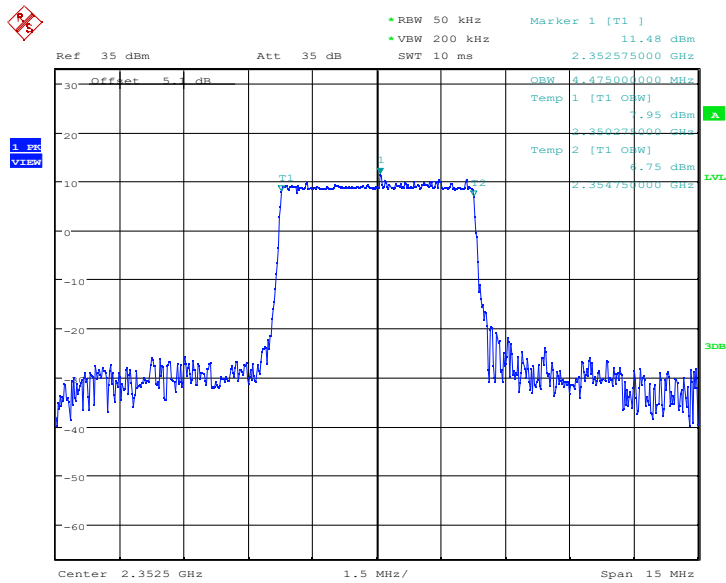


Date: 18.DEC.2024 11:46:37

LTE band 40 , 5MHz Bandwidth,LOW,64QAM (99% BW)

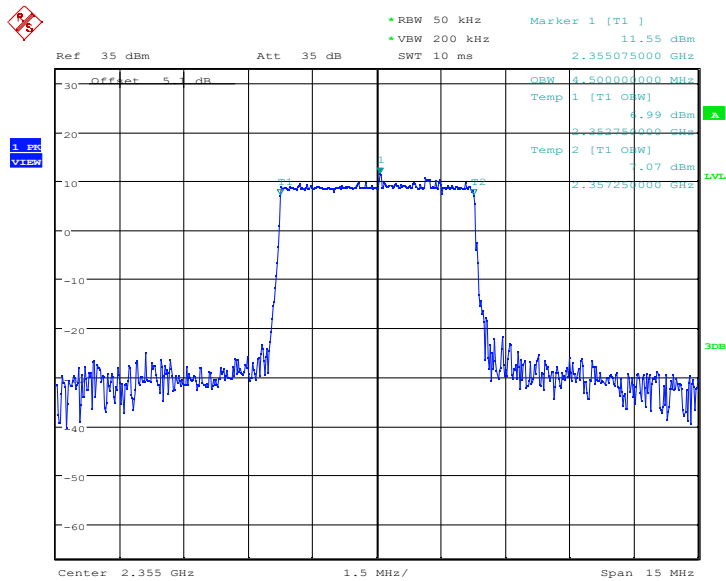
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Date: 3.JAN.2025 13:54:48

LTE band 40 , 5MHz Bandwidth,MID,64QAM (99% BW)

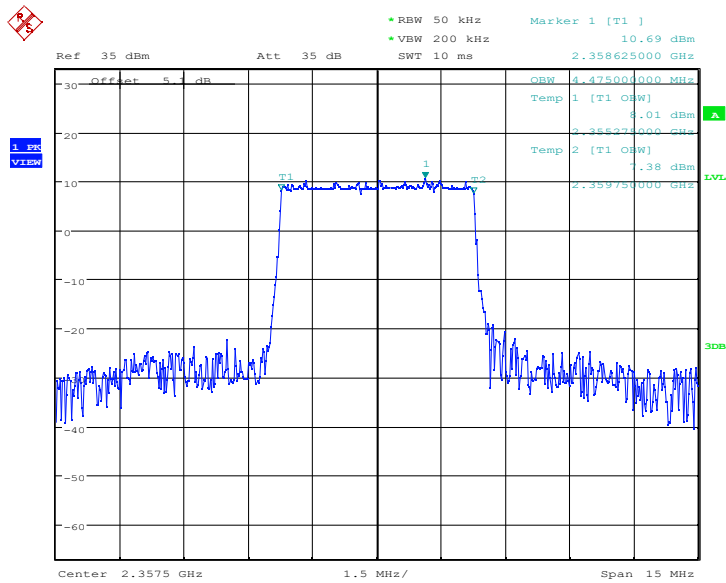


Date: 3.JAN.2025 15:07:47

LTE band 40 , 5MHz Bandwidth,HIGH,64QAM (99% BW)

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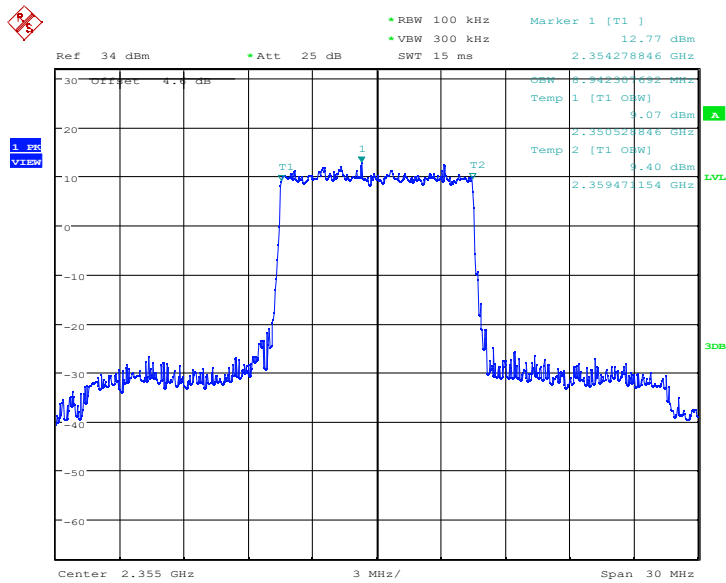


Date: 3.JAN.2025 13:56:05

LTE band 40H,10MHz(99%)

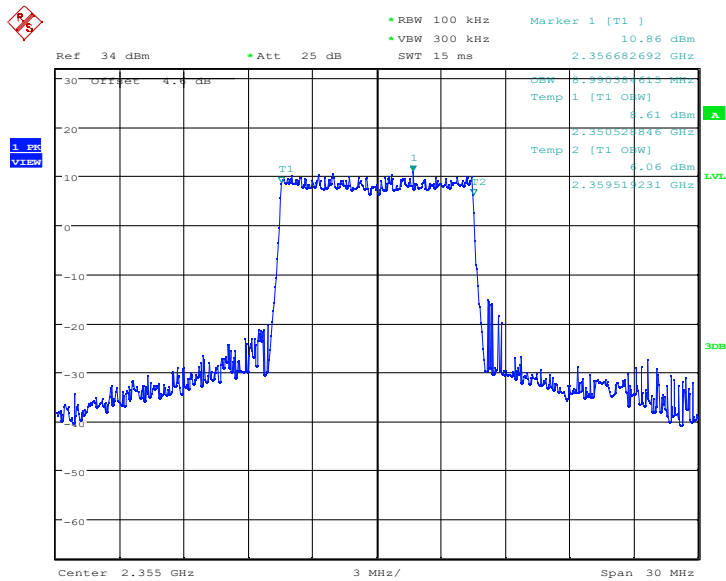
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)		
	QPSK	16QAM	64QAM
2355	8.942	8.990	8.950

LTE band 40 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 18.DEC.2024 11:48:07

LTE band 40 , 10MHz Bandwidth,MID,16QAM (99% BW)

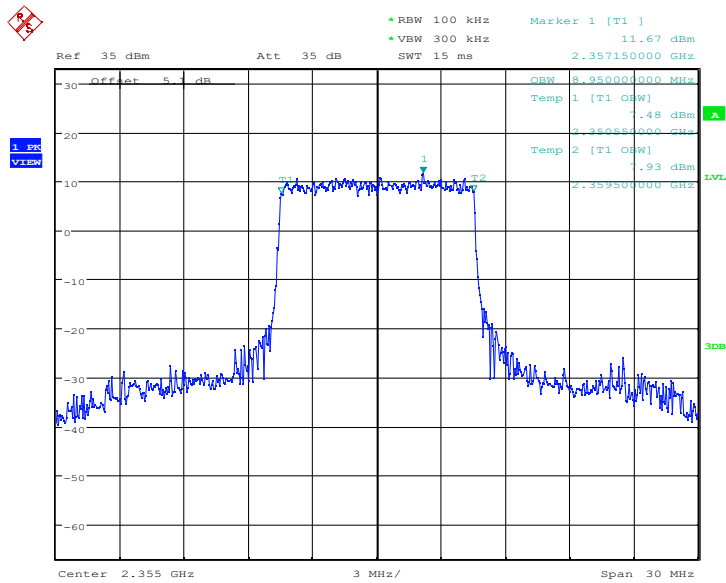


Date: 18.DEC.2024 11:48:28

LTE band 40 , 10MHz Bandwidth,MID,64QAM (99% BW)

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Date: 3.JAN.2025 13:57:02

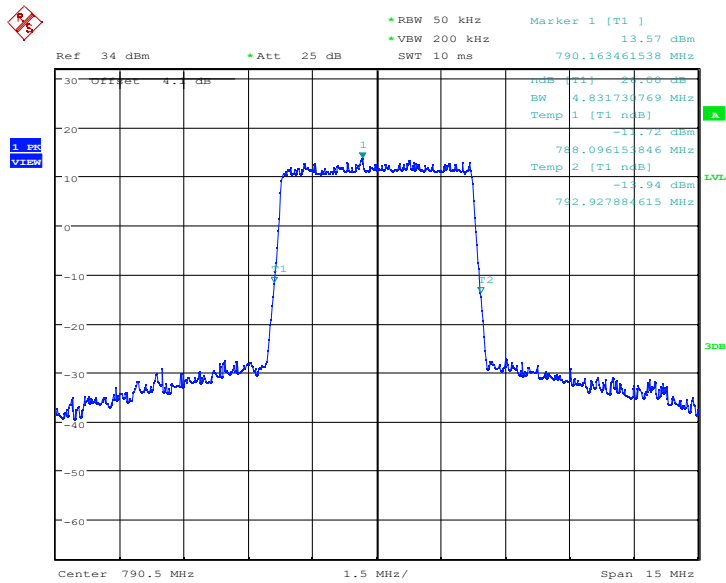
LTE band 14,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
790.5	4.832	4.856	4.856
793	4.856	4.808	4.832
795.5	4.832	4.856	4.808

LTE band 14 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)

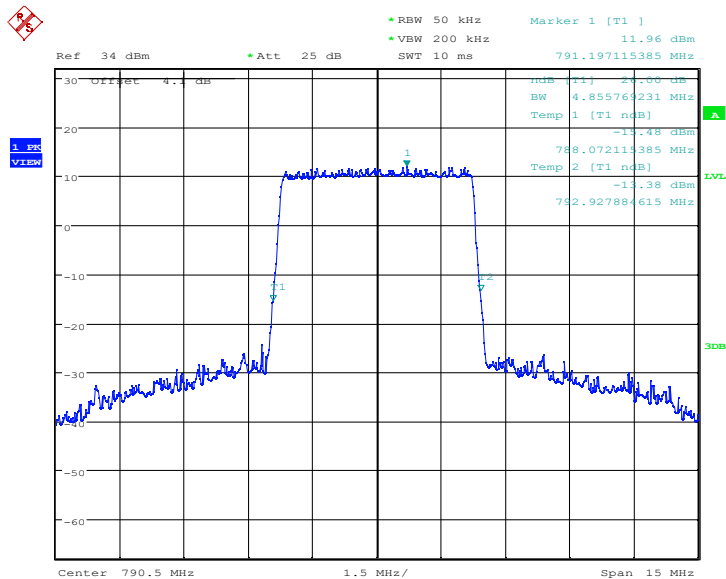
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Date: 18.DEC.2024 14:47:26

LTE band 14 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)

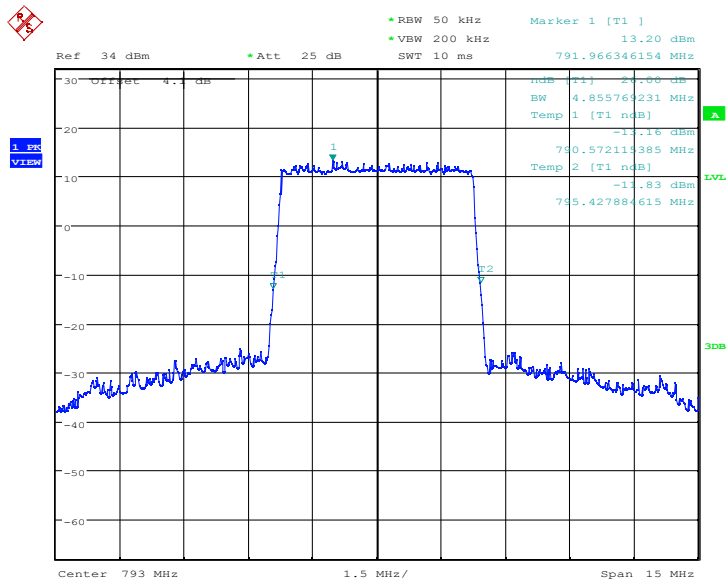


Date: 18.DEC.2024 14:47:48

LTE band 14 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

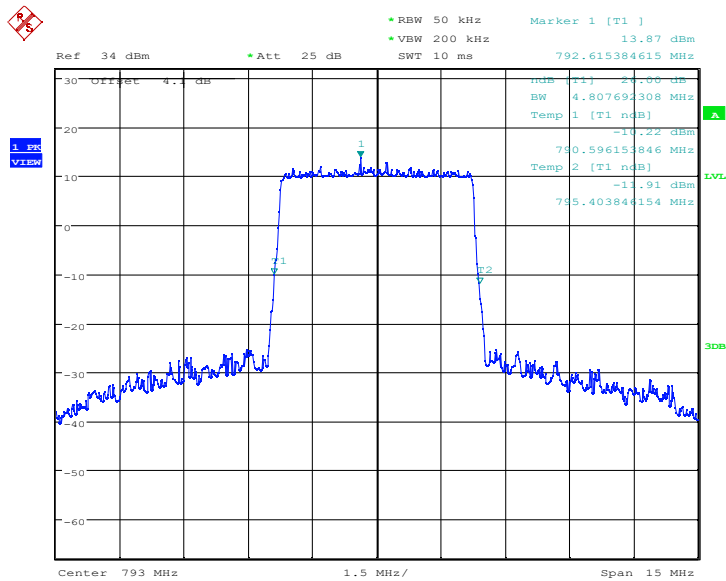
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Date: 18.DEC.2024 14:48:14

LTE band 14 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

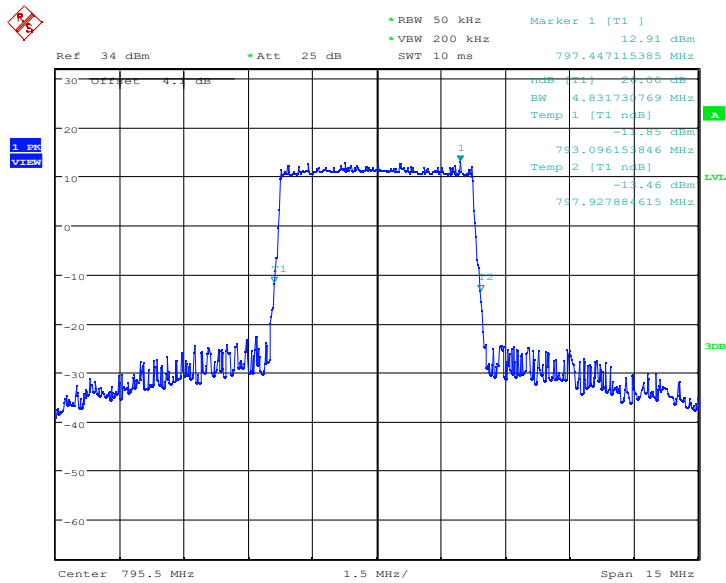


Date: 18.DEC.2024 14:48:35

LTE band 14 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

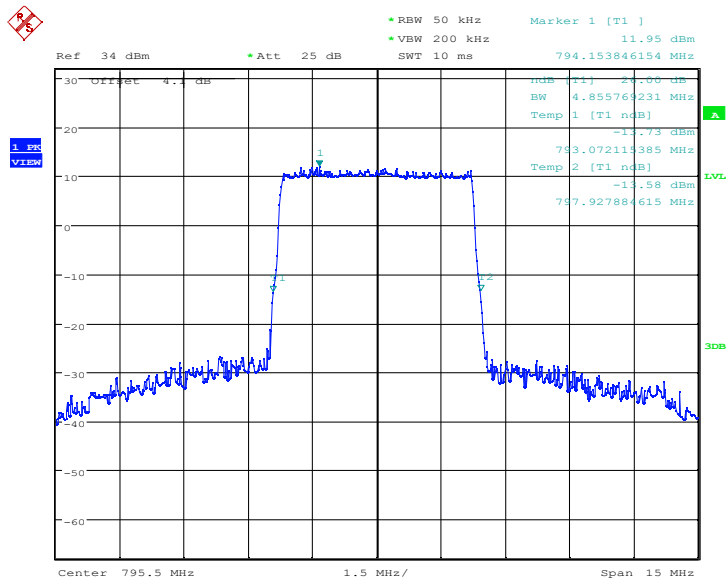
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Date: 18.DEC.2024 14:49:04

LTE band 14 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)

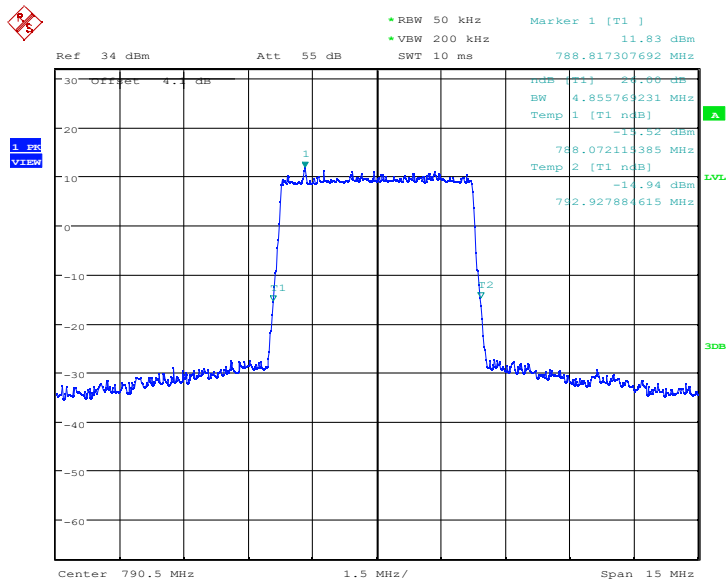


Date: 18.DEC.2024 14:49:28

LTE band 14 , 5MHz Bandwidth,LOW,64QAM (-26dBc BW)

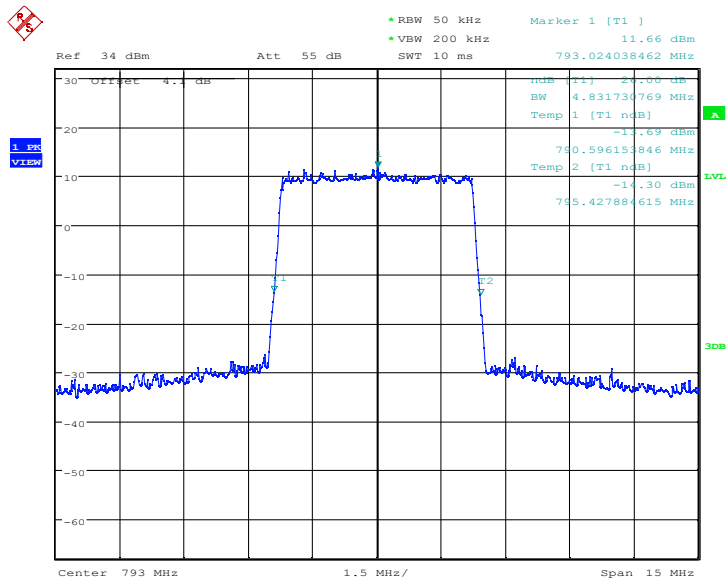
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Date: 3.JAN.2025 13:58:44

LTE band 14 , 5MHz Bandwidth,MID,64QAM (-26dBc BW)



Date: 3.JAN.2025 15:08:55

LTE band 14 , 5MHz Bandwidth,HIGH,64QAM (-26dBc BW)

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Ref 34 dBm Att 55 dB RBW 50 kHz VBW 200 kHz SWT 10 ms

Marker 1 [T1]

11.86 dBm

795.596153846 MHz

dBm [T1] 2.00 dB

BW 4.807692308 MHz

Temp 1 [T1 n dB]

-11.59 dBm

793.096153846 MHz

Temp 2 [T1 n dB]

-15.11 dBm

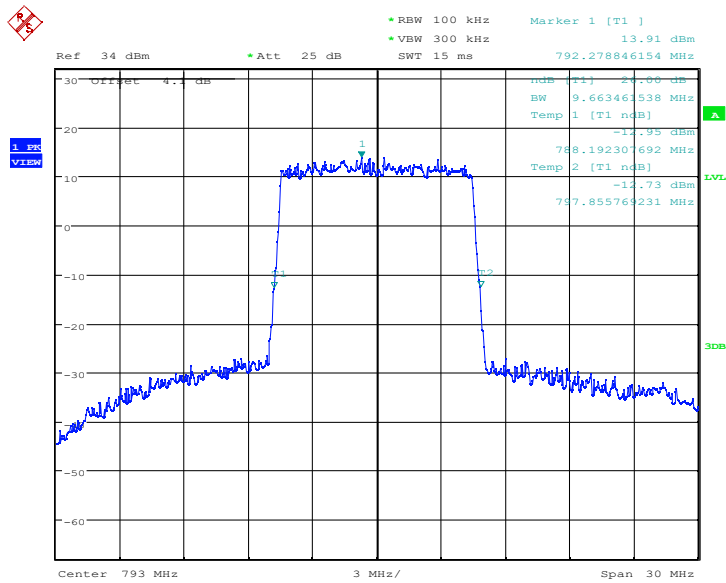
797.903846154 MHz

Center 795.5 MHz 1.5 MHz/ Span 15 MHz

LTE band 14,10MHz(-26dBc)

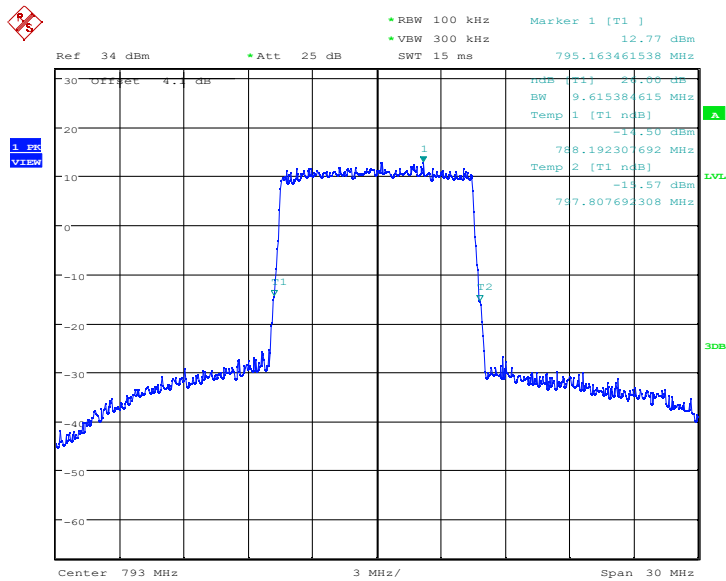
LTE band 14 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)

Page 100 of 278



Date: 18.DEC.2024 14:52:23

LTE band 14 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)

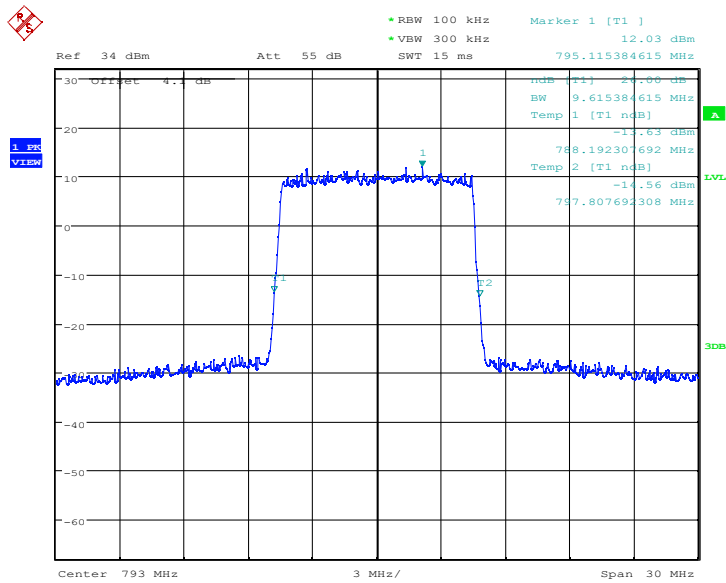


Date: 18.DEC.2024 14:52:50

LTE band 14 , 10MHz Bandwidth,MID,64QAM (-26dBc BW)

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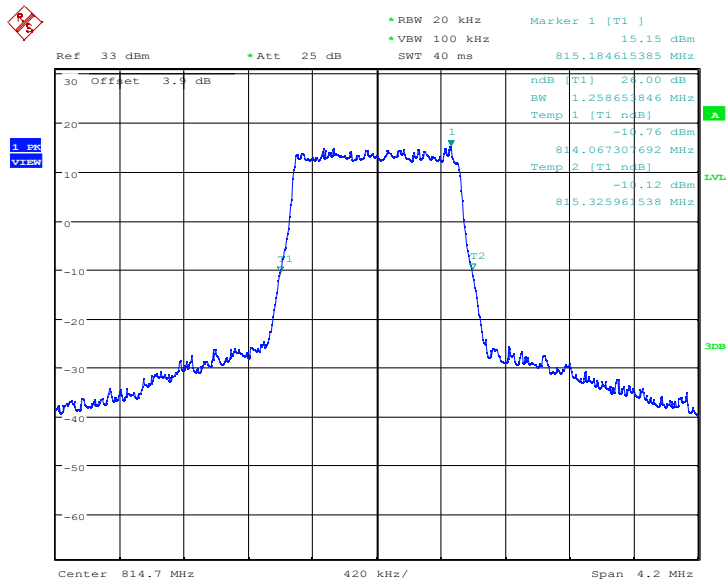


Date: 3.JAN.2025 14:00:42

LTE band 26_Part90,1.4MHz(-26dBc)

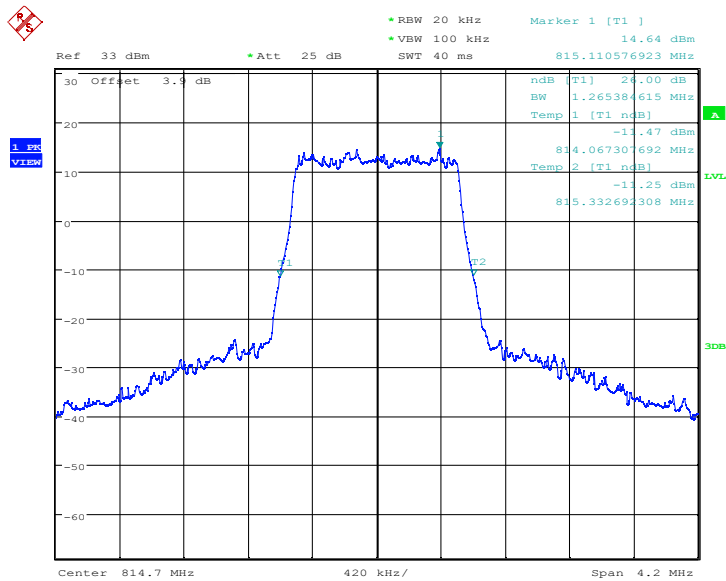
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
814.7	1.259	1.265	1.272
819	1.272	1.286	1.279
823.3	1.259	1.265	1.259

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



Date: 18.DEC.2024 14:54:35

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



Date: 18.DEC.2024 14:55:02

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

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• RBW 20 kHz
 • VBW 100 kHz
 SWT 40 ms

Ref 33 dBm
 Att 25 dB

Marker 1 [T1]
 14.26 dBm
 818.798076923 MHz

Offset 3.4 dB
 1.272114385 MHz
 Temp 1 [T1] dBm
 -1.00 dBm
 818.360574923 MHz
 Temp 2 [T1] dBm
 -1.31 dBm
 819.632692308 MHz

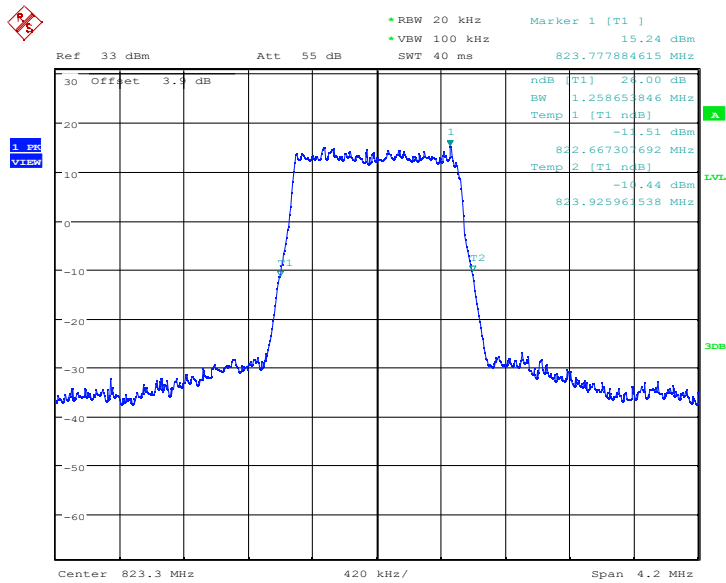
Center 819 MHz
 420 kHz/
 Span 4.2 MHz

The screenshot shows a Keysight E67 Series Spectrum Analyzer interface. The main display area shows a spectrum plot with a blue trace. The trace has a flat-top shape, indicating a signal with a specific bandwidth. The plot is overlaid on a grid. The x-axis represents frequency in kHz, and the y-axis represents power in dBm.

Key parameters and settings visible on the screen include:

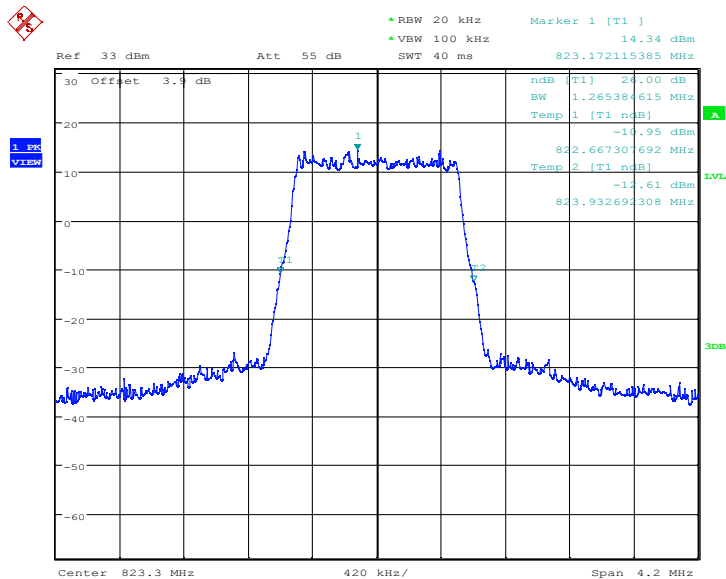
- Ref:** 33 dBm
- Att:** 25 dB
- RBW:** 20 kHz
- VBW:** 100 kHz
- SWT:** 40 ms
- Marker 1 [T1]:** 14.17 dBm
- Offset:** 3.9 dB
- Bandwidth (BW):** 1.285574923 MHz
- Temp 1 [T1 n dB]:** -1.87 dBm
- Temp 2 [T1 n dB]:** -11.21 dBm
- Center Frequency:** 819 MHz
- Span:** 4.2 MHz
- Resolution Bandwidth (RBW):** 20 kHz
- Video Bandwidth (VBW):** 100 kHz
- Sweep Time (SWT):** 40 ms

The plot shows a signal with a flat-top, indicating a signal with a specific bandwidth. The flat-top is centered around 819 MHz. The signal level is approximately 14.17 dBm. The noise floor is around -40 dBm. The signal has a bandwidth of approximately 4.2 MHz.



Date: 18.DEC.2024 17:07:00

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

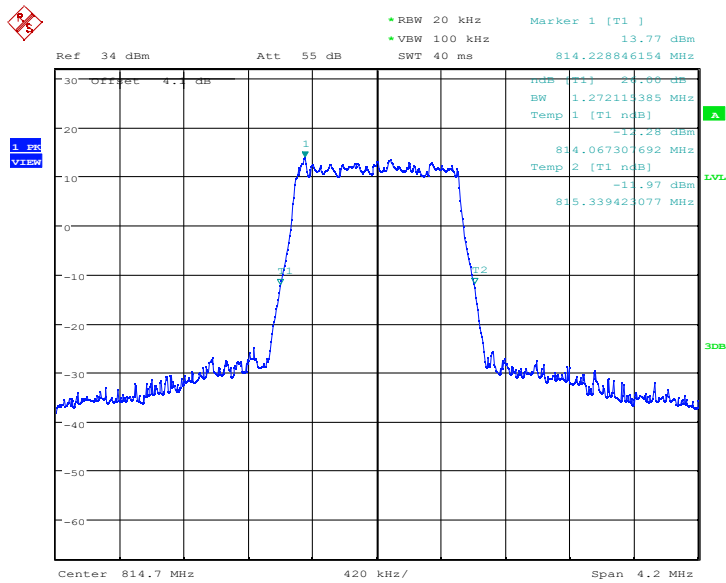


Date: 18.DEC.2024 17:07:22

LTE band 26 , 1.4MHz Bandwidth,LOW,64QAM (-26dBc BW)

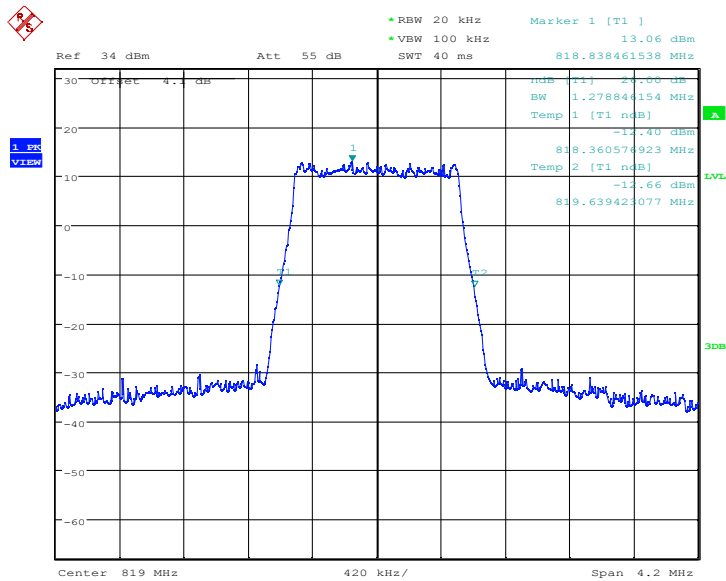
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Date: 3.JAN.2025 14:01:54

LTE band 26 , 1.4MHz Bandwidth,MID,64QAM (-26dBc BW)

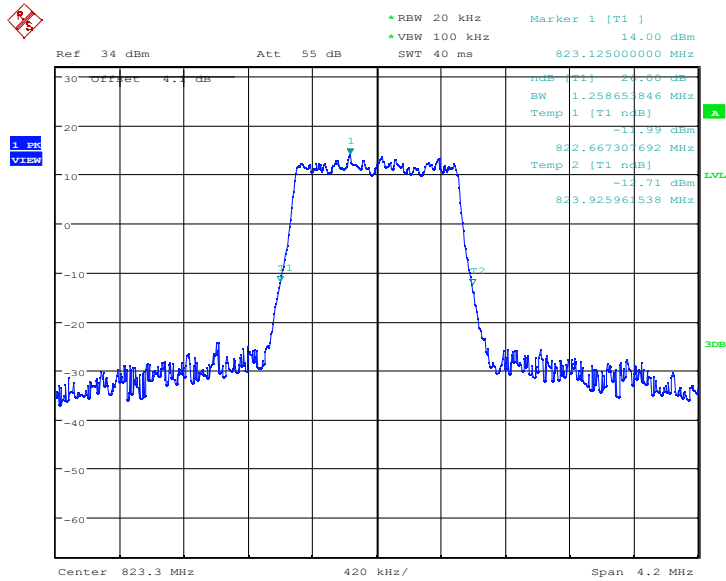


Date: 3.JAN.2025 14:02:21

LTE band 26 , 1.4MHz Bandwidth,HIGH,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:02:50

LTE band 26_Part90,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
815.5	2.928	2.942	2.957
819	2.942	2.942	2.899
822.5	2.928	2.942	2.928

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

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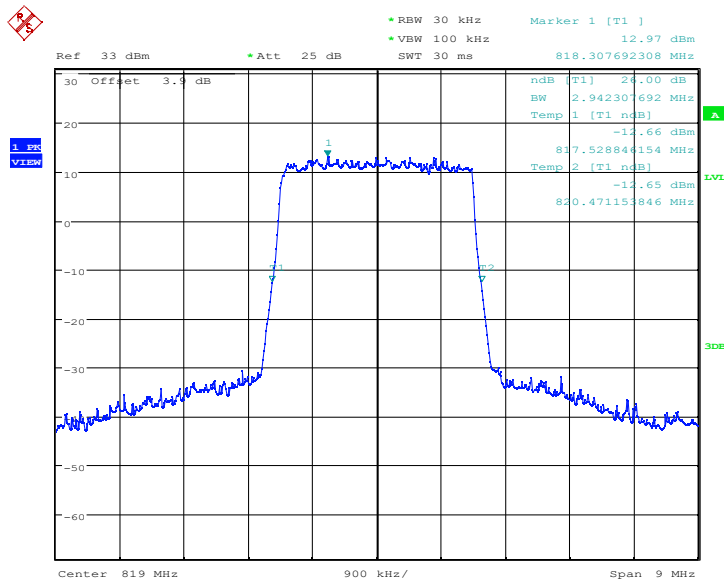
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 18.DEC.2024 15:00:30

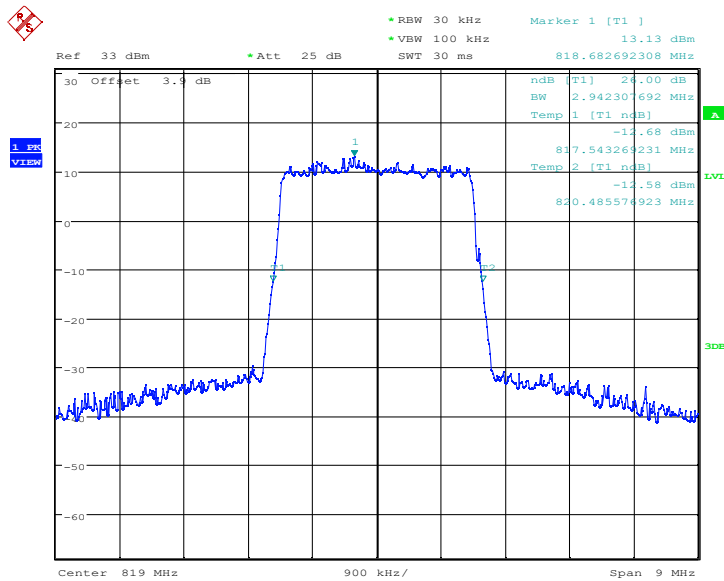
Date: 18.DEC.2024 15:00:52

Page 108 of 278



Date: 18.DEC.2024 15:01:22

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

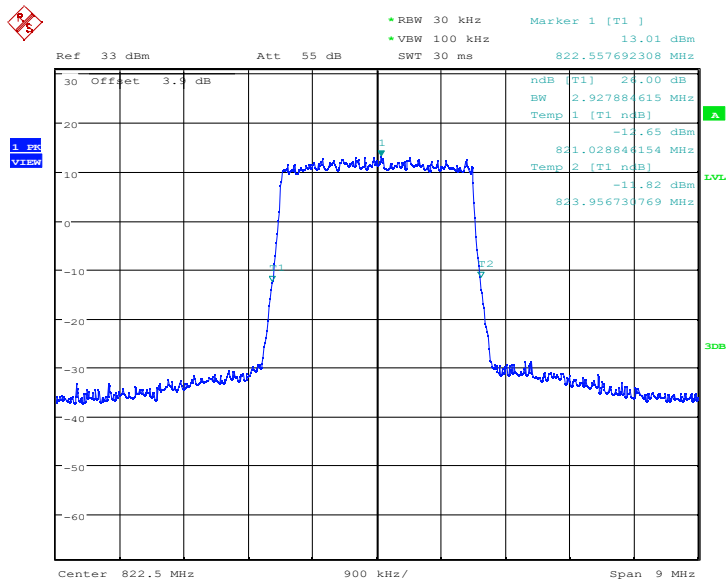


Date: 18.DEC.2024 15:01:51

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

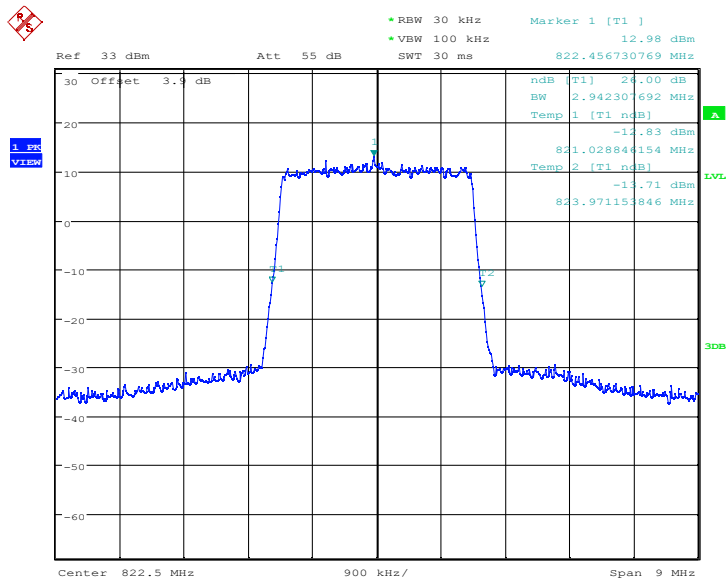
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Date: 18.DEC.2024 17:09:32

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

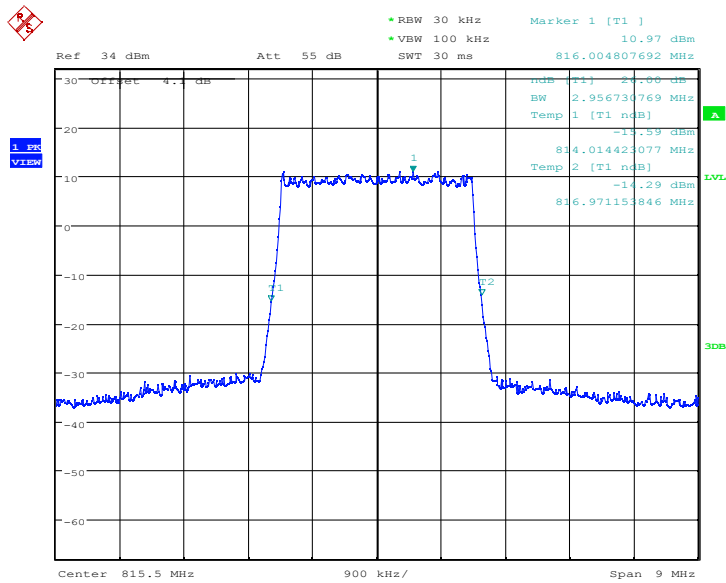


Date: 18.DEC.2024 17:09:53

LTE band 26 , 3MHz Bandwidth,LOW,64QAM (-26dBc BW)

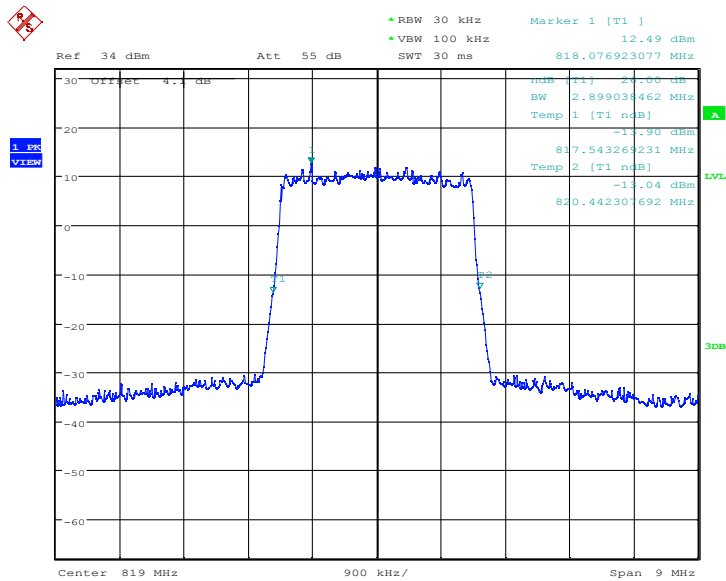
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Date: 3.JAN.2025 14:03:53

LTE band 26 , 3MHz Bandwidth,MID,64QAM (-26dBc BW)

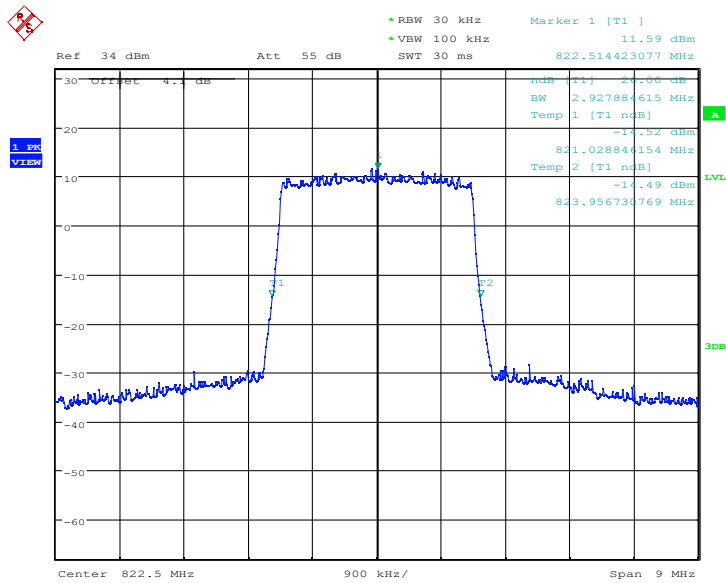


Date: 3.JAN.2025 14:04:20

LTE band 26 , 3MHz Bandwidth,HIGH,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:05:07

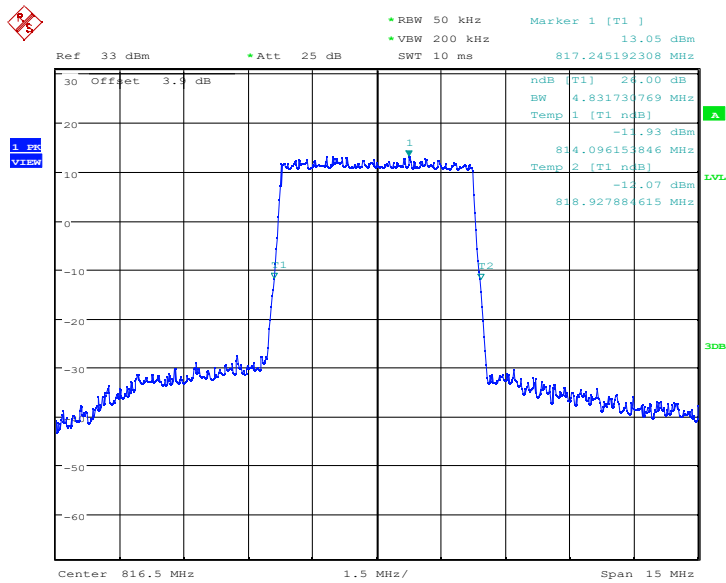
LTE band 26_Part90,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
816.5	4.832	4.832	4.832
819	4.856	4.880	4.832
821.5	4.856	4.856	4.832

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

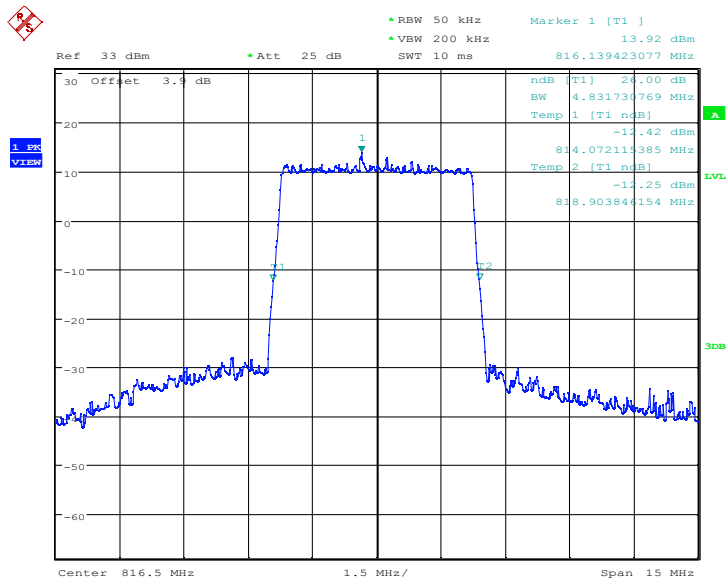
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Date: 18.DEC.2024 15:10:08

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

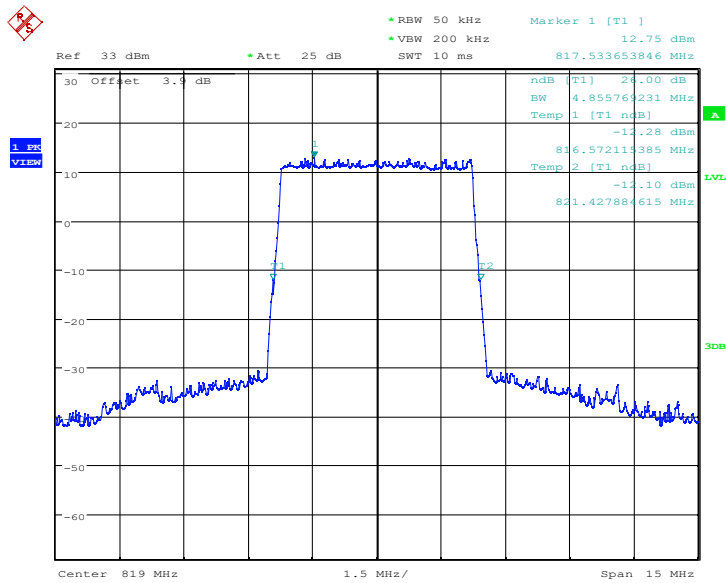


Date: 18.DEC.2024 15:10:30

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

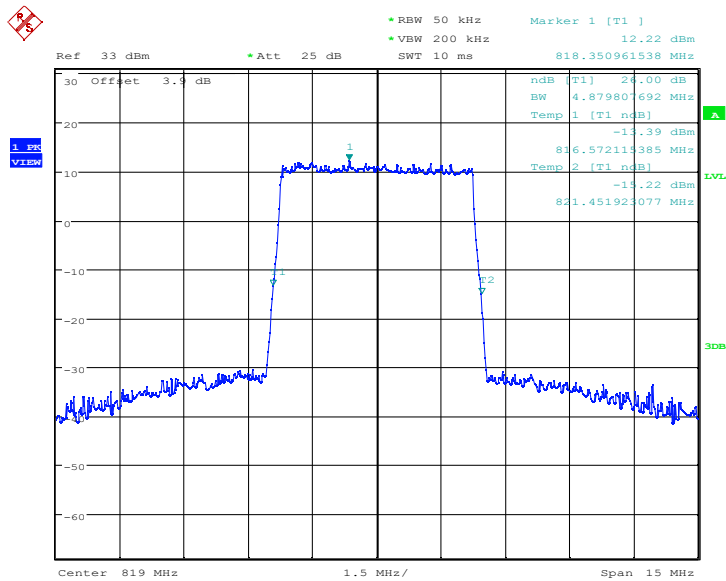
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Date: 18.DEC.2024 15:11:02

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

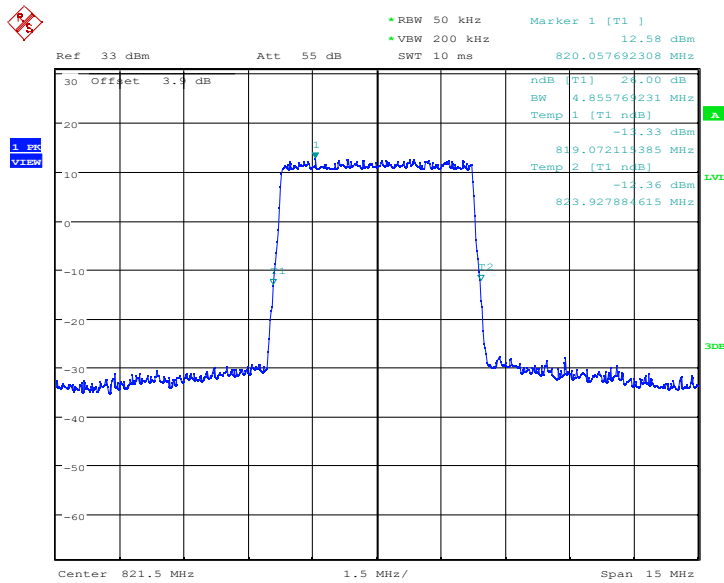


Date: 18.DEC.2024 15:11:31

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

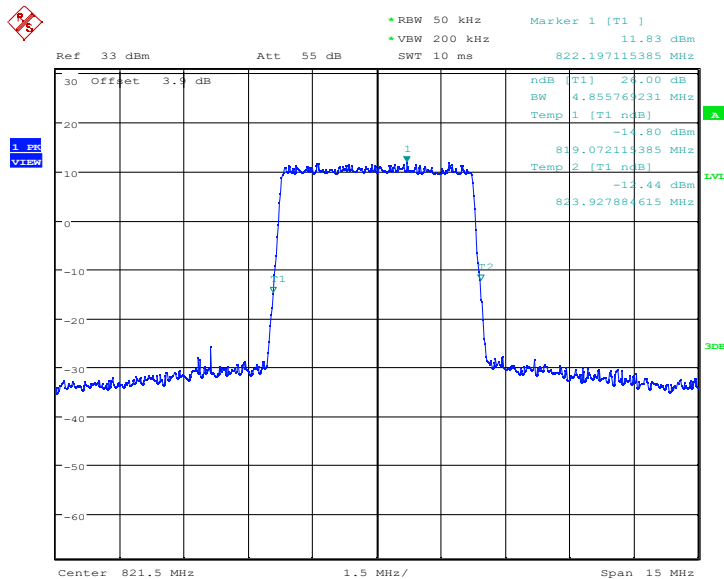
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Date: 18.DEC.2024 17:10:29

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

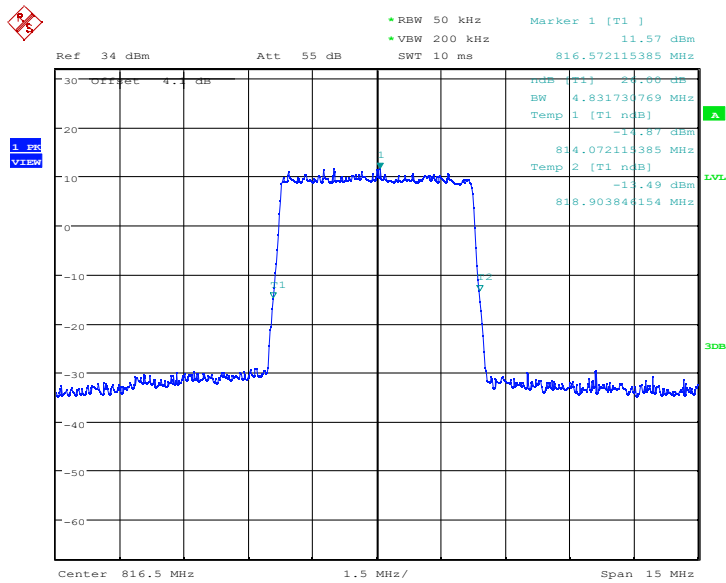


Date: 18.DEC.2024 17:10:54

LTE band 26 , 5MHz Bandwidth,LOW,64QAM (-26dBc BW)

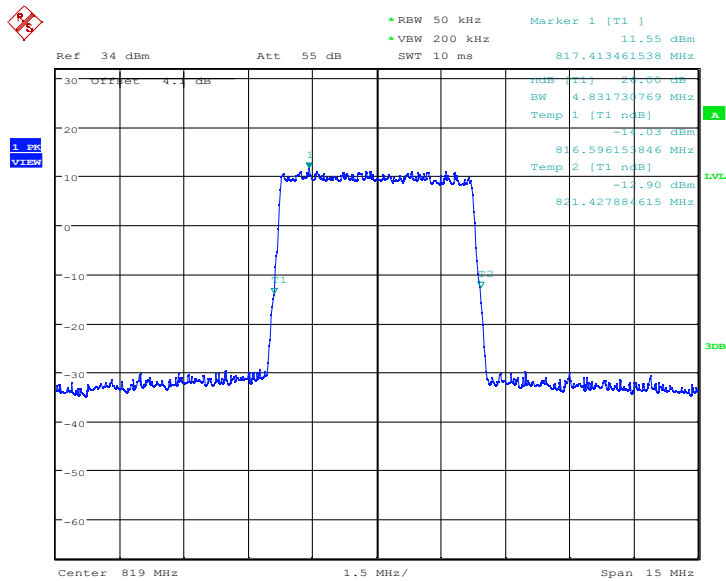
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Date: 3.JAN.2025 14:05:54

LTE band 26 , 5MHz Bandwidth,MID,64QAM (-26dBc BW)

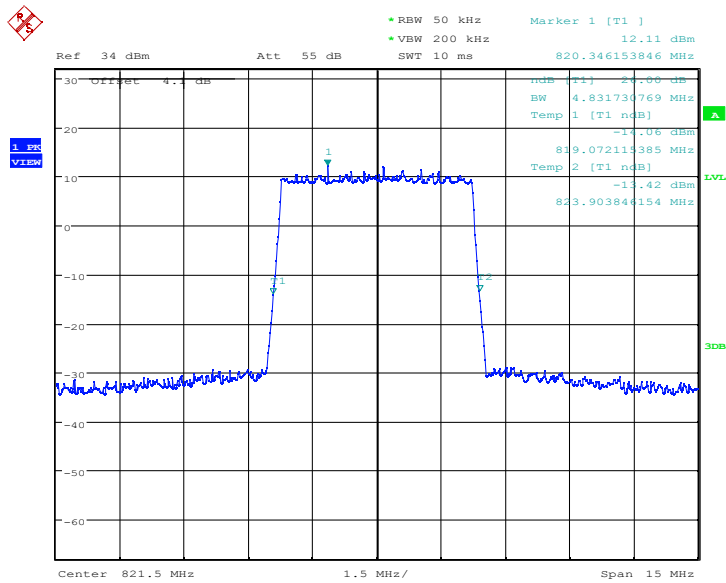


Date: 3.JAN.2025 14:06:20

LTE band 26 , 5MHz Bandwidth,HIGH,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:06:47

LTE band 26_Part90,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
819	9.615	9.567	9.567

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

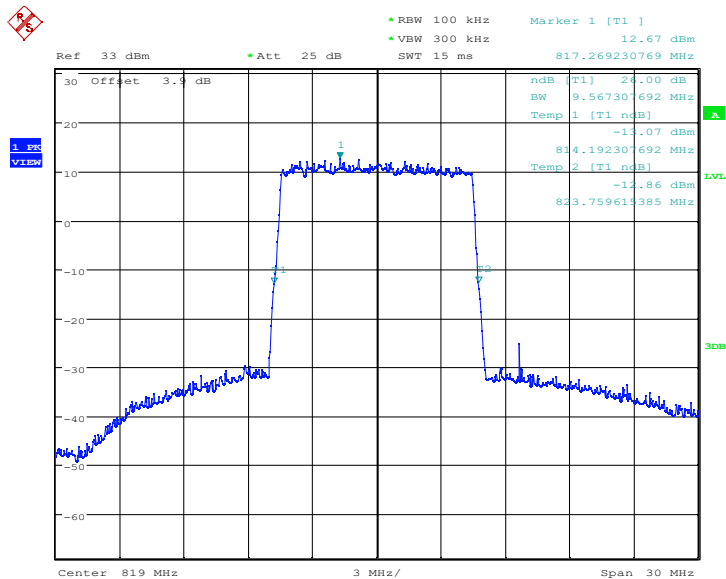


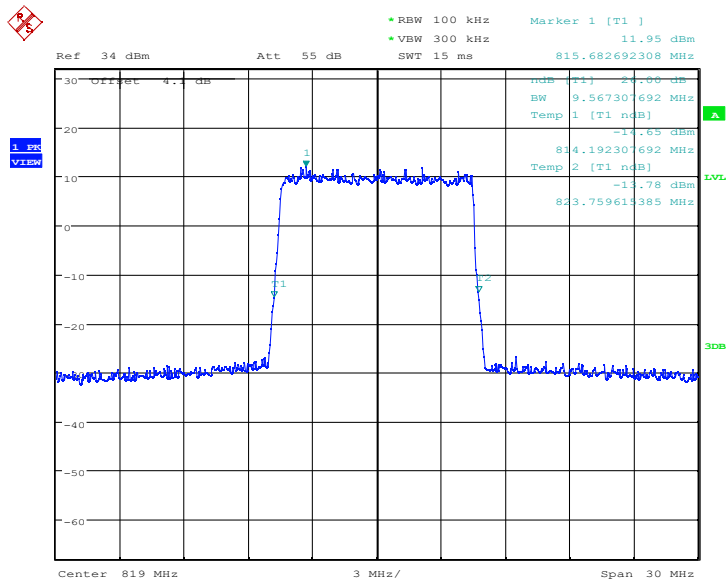
* RBW 100 kHz
 * VBW 300 kHz
 Ref 33 dBm
 Att 25 dB
 SWT 15 ms
 Marker 1 [T1]
 13.75 dBm
 819.000000000 MHz

30 OffSet 3.0 dB
 ndB [T1] 24.00 dB
 BW 9.615384615 MHz
 Temp 1 [T1 ndB] -10.99 dBm
 814.192307692 MHz
 Temp 2 [T1 ndB] -1.22 dBm
 823.807692308 MHz

L 500
 V 1000

Center 819 MHz
 3 MHz/
 Span 30 MHz





Date: 3.JAN.2025 14:07:49

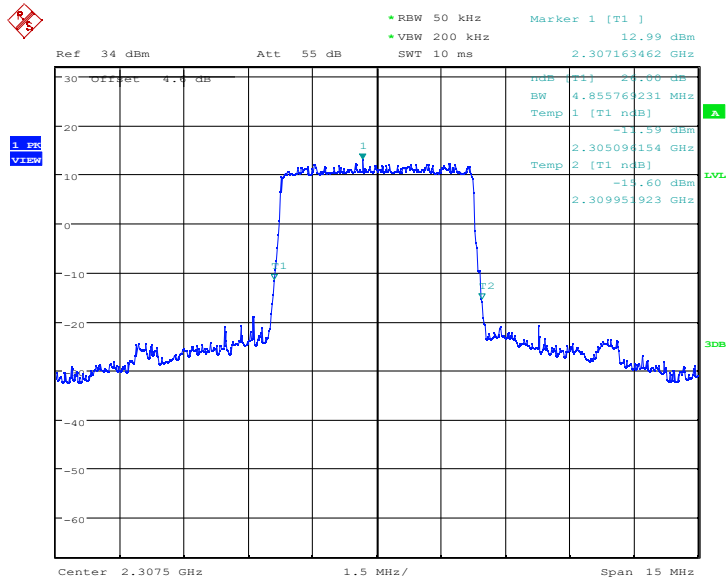
LTE band 30,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
2307.5	4.856	4.856	4.856
2310	4.856	4.856	4.832
2312.5	4.832	4.856	4.832

LTE band 30 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)

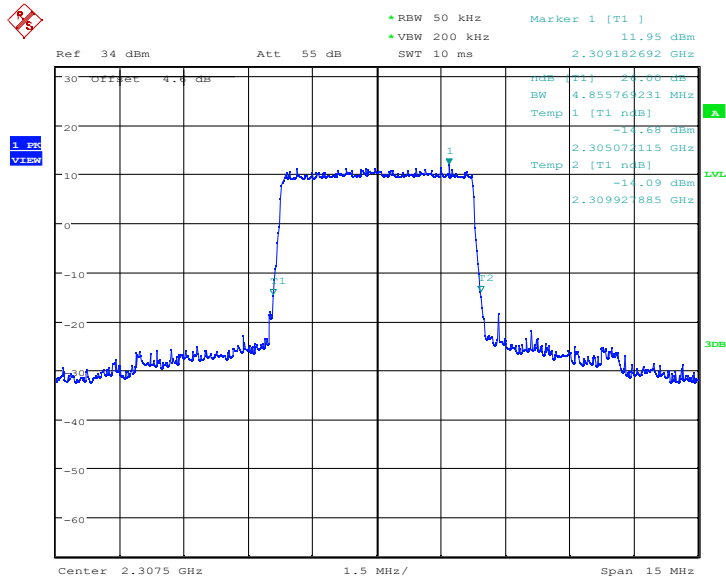
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Date: 18.DEC.2024 17:13:30

LTE band 30 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)

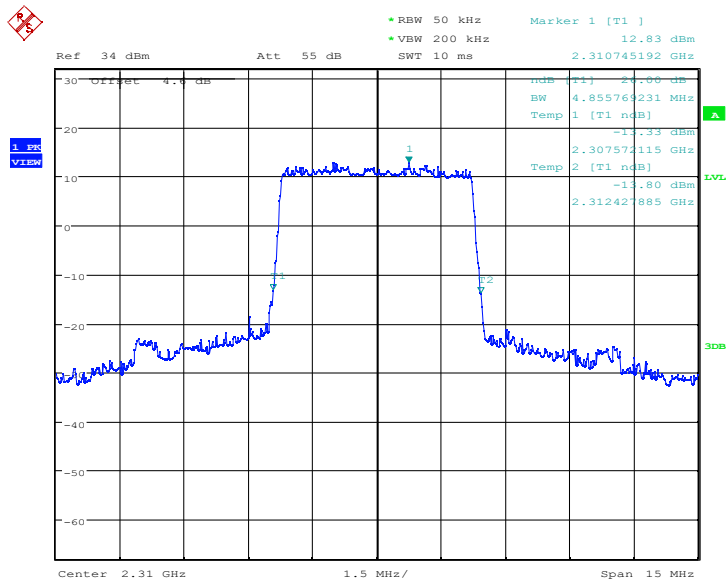


Date: 18.DEC.2024 17:13:54

LTE band 30 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

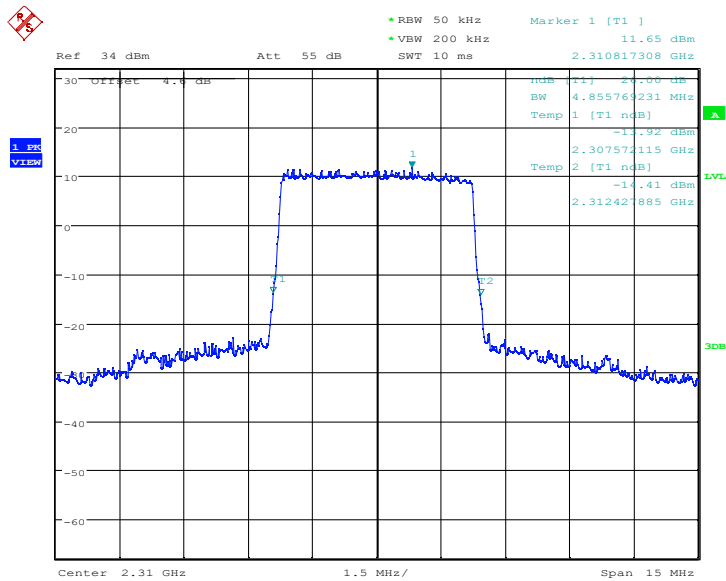
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 18.DEC.2024 17:14:23

LTE band 30 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

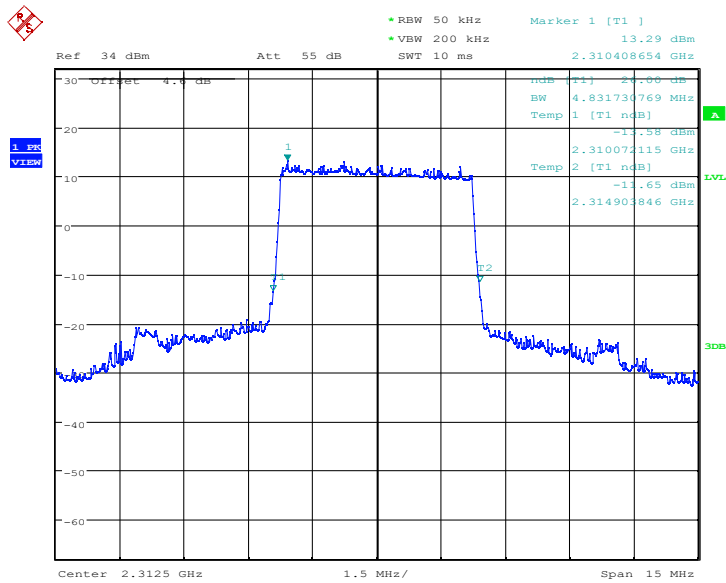


Date: 18.DEC.2024 17:14:45

LTE band 30 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

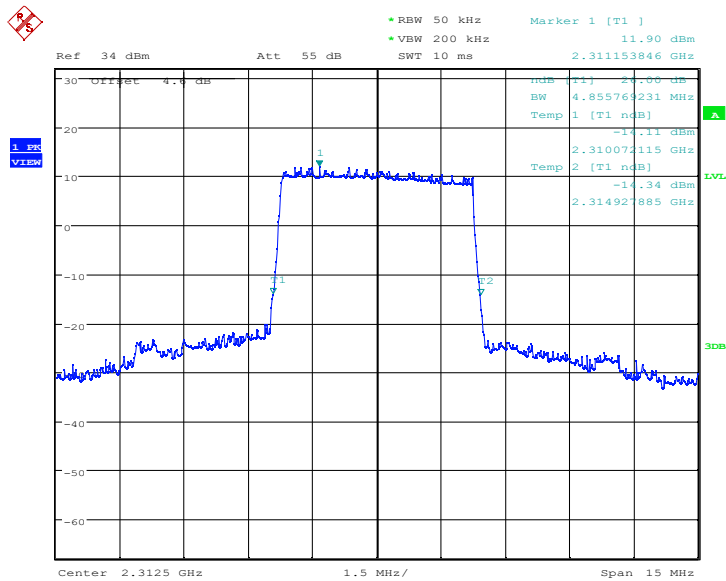
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 18.DEC.2024 17:15:14

LTE band 30 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 18.DEC.2024 17:15:37

LTE band 30 , 5MHz Bandwidth,LOW,64QAM (-26dBc BW)

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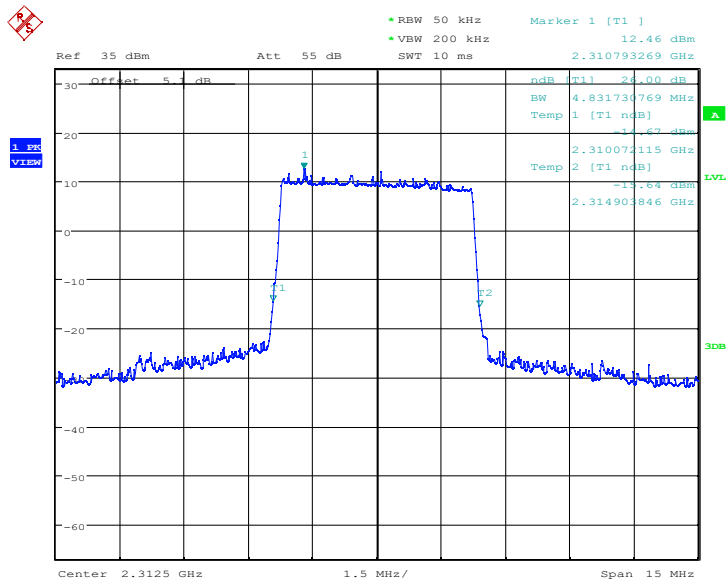
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 3.JAN.2025 15:22:19

Date: 3.JAN.2025 14:09:56

Page 123 of 278

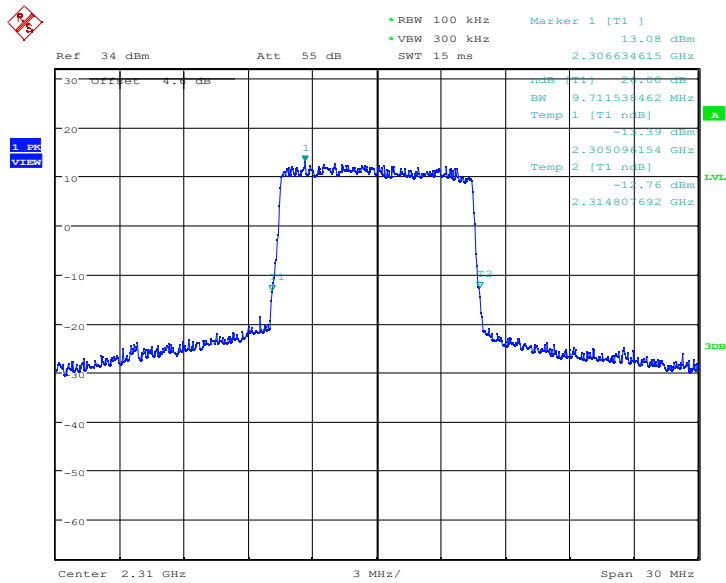


Date: 3.JAN.2025 14:10:24

LTE band 30,10MHz(-26dBc)

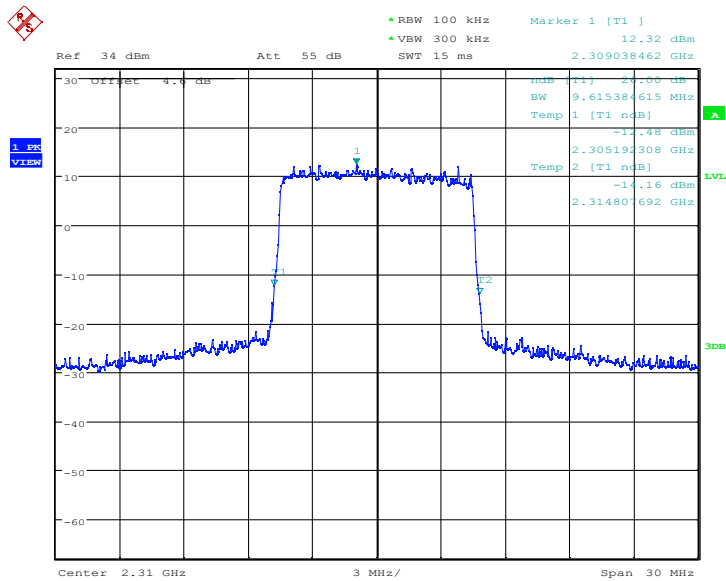
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
2310	9.712	9.615	9.567

LTE band 30 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 18.DEC.2024 17:18:34

LTE band 30 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)

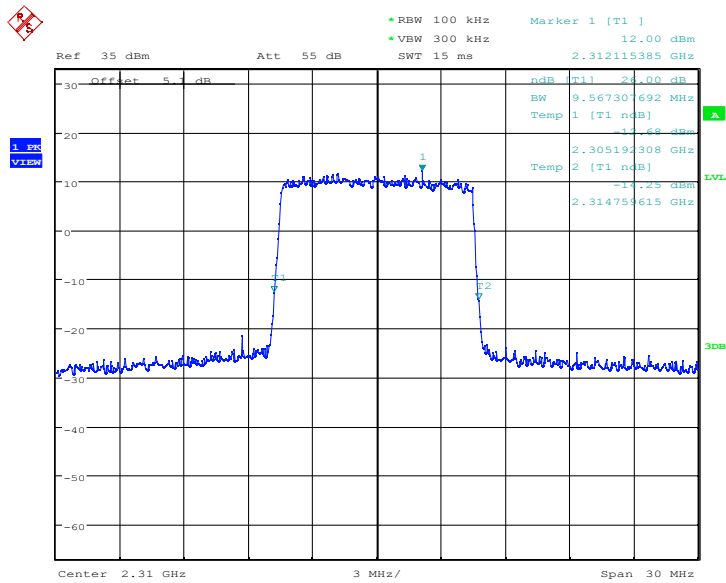


Date: 18.DEC.2024 17:19:00

LTE band 30 , 10MHz Bandwidth,MID,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:12:18

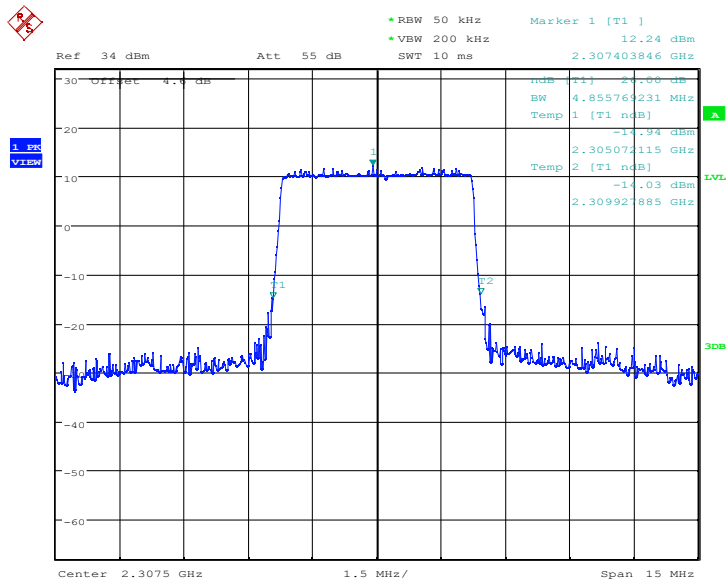
LTE band 40L,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
2307.5	4.856	4.856	4.856
2310	4.808	4.832	4.880
2312.5	4.784	4.832	4.832

LTE band 40 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)

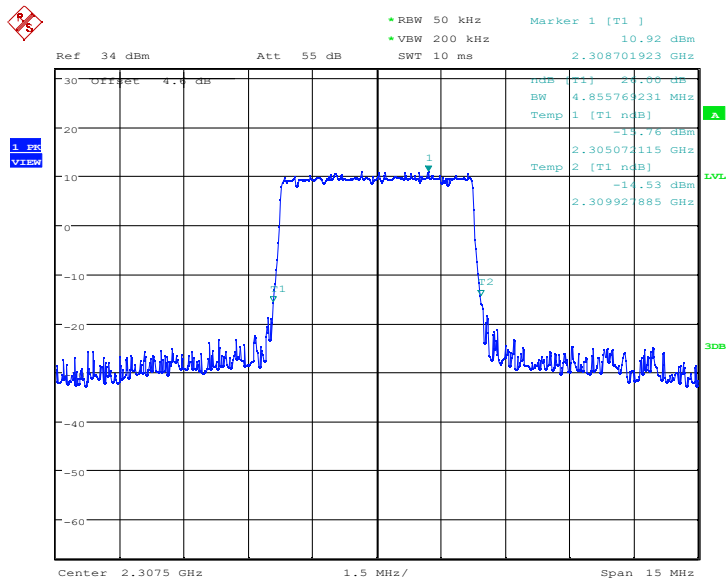
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Date: 18.DEC.2024 17:20:44

LTE band 40 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)

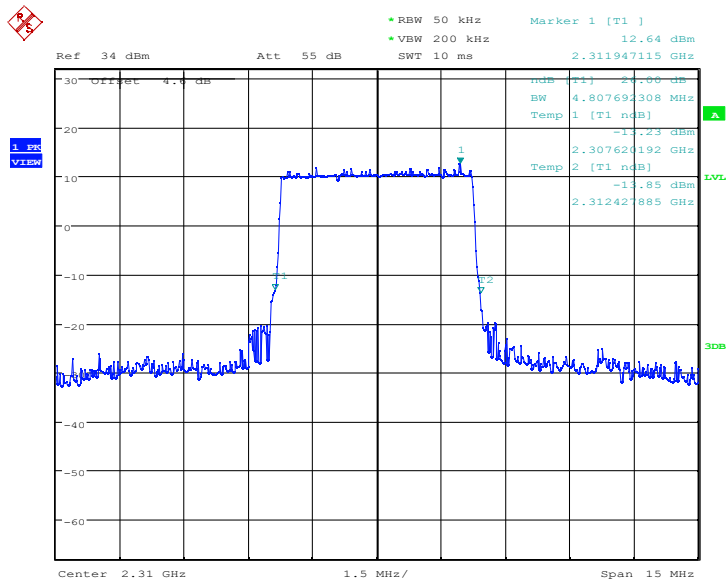


Date: 18.DEC.2024 17:21:09

LTE band 40 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

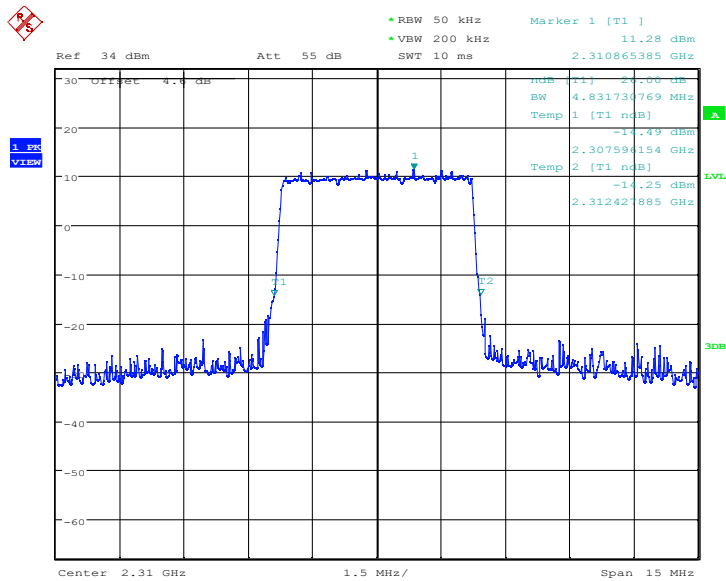
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Date: 18.DEC.2024 17:21:38

LTE band 40 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

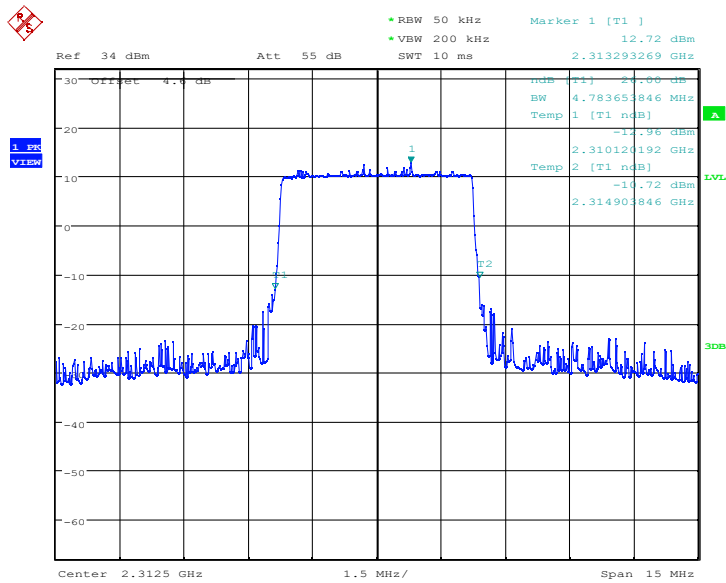


Date: 18.DEC.2024 17:22:00

LTE band 40 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

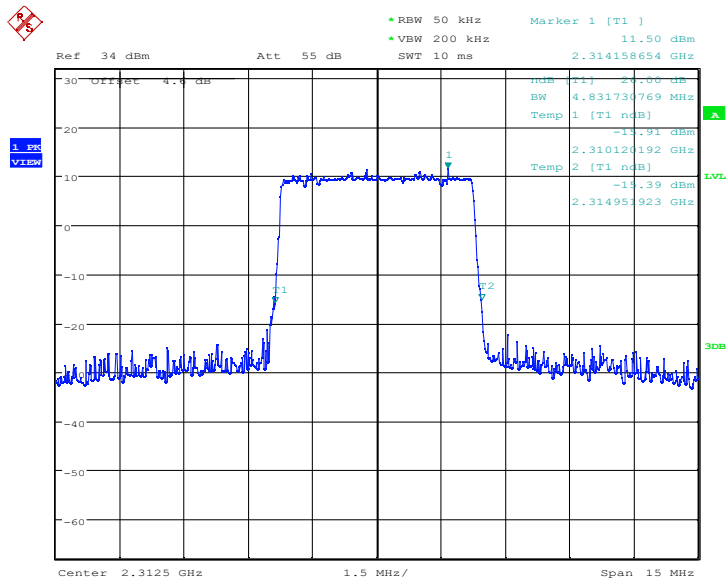
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Date: 18.DEC.2024 17:22:35

LTE band 40 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 18.DEC.2024 17:22:57

LTE band 40 , 5MHz Bandwidth,LOW,64QAM (-26dBc BW)

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* RBW 50 kHz
 * VBW 200 kHz
 * SWT 10 ms

Ref 35 dBm
 Att 55 dB

Marker 1 [T1]
 2.305072115 GHz
 -10.75 dBm

Marker 2 [T1]
 2.305072115 GHz
 -10.75 dBm

Center 2.3075 GHz
 1.5 MHz/
 Span 15 MHz

Ref 35 dBm Att 55 dB

Marker 1 [T1]

• RBW 50 kHz 11.13 dBm

• VBW 200 kHz

SWT 10 ms 2.310817308 GHz

Offset 5.0 dB

dB [T1] 24.00 dB

BW 4.879807692 MHz

Temp 1 [T1 dB]

1 11.13 dBm

2 2.307572115 GHz

Temp 2 [T1 dB]

2 -12.50 dBm

2.312451923 GHz

Center 2.31 GHz

1.5 MHz/

Span 15 MHz

Page 130 of 278



Ref 35 dBm Att 55 dB

• RBW 50 kHz • VBW 200 kHz

SWT 10 ms

Marker 1 [T1]

11.31 dBm

2.313533654 GHz

Offset 5 dB

dB T1 2.3100 dB

BW 4.831734769 MHz

Temp 1 [T1 dB]

1.84 dB

2.310094154 GHz

Temp 2 [T1 dB]

-1.76 dBm

2.314927885 GHz

Center 2.3125 GHz

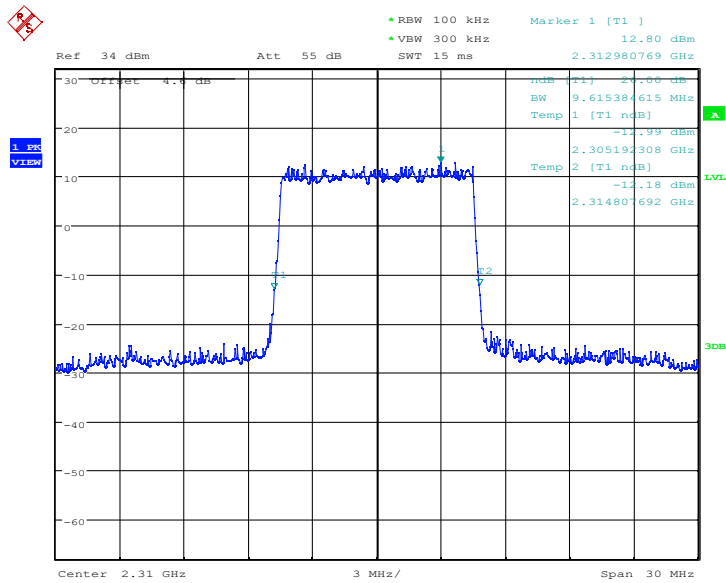
1.5 MHz/

Span 15 MHz

LTE band 40L,10MHz(-26dBc)

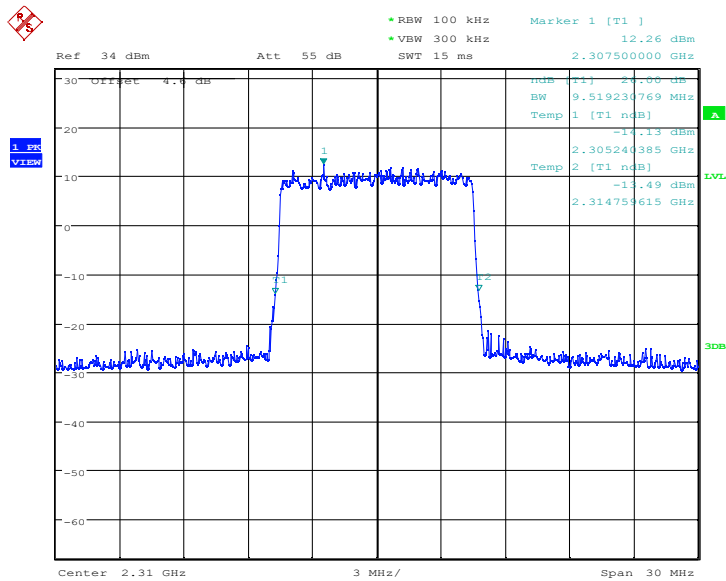
LTE band 40 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)

Page 131 of 278



Date: 18.DEC.2024 17:24:24

LTE band 40 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)

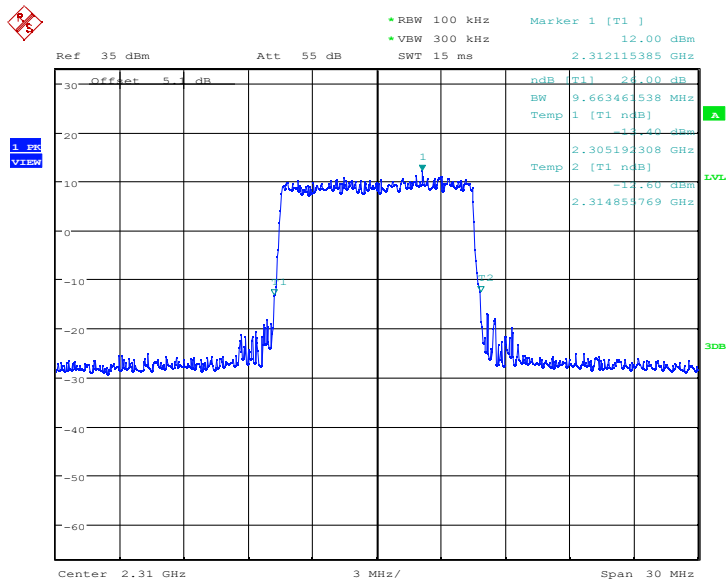


Date: 18.DEC.2024 17:37:37

LTE band 40 , 10MHz Bandwidth,MID,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:15:28

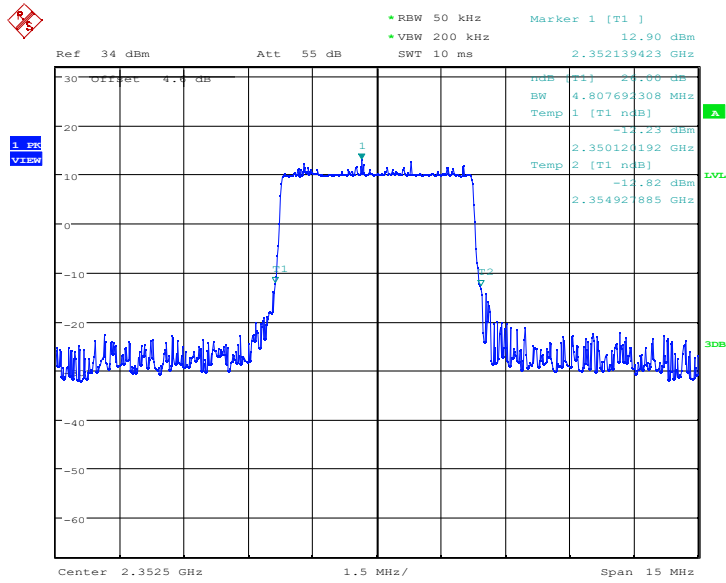
LTE band 40H,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)		
	QPSK	16QAM	64QAM
2352.5	4.808	4.832	4.856
2355	4.832	4.832	4.832
2357.5	4.808	4.832	4.856

LTE band 40 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)

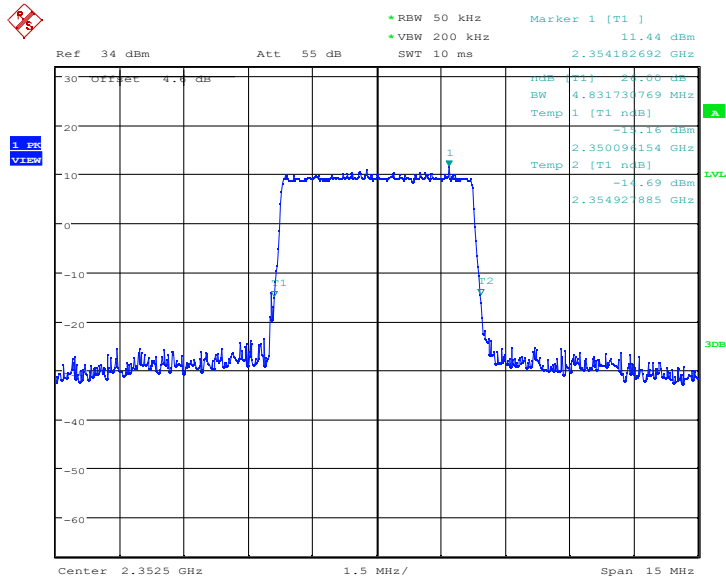
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Date: 18.DEC.2024 17:26:16

LTE band 40 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)

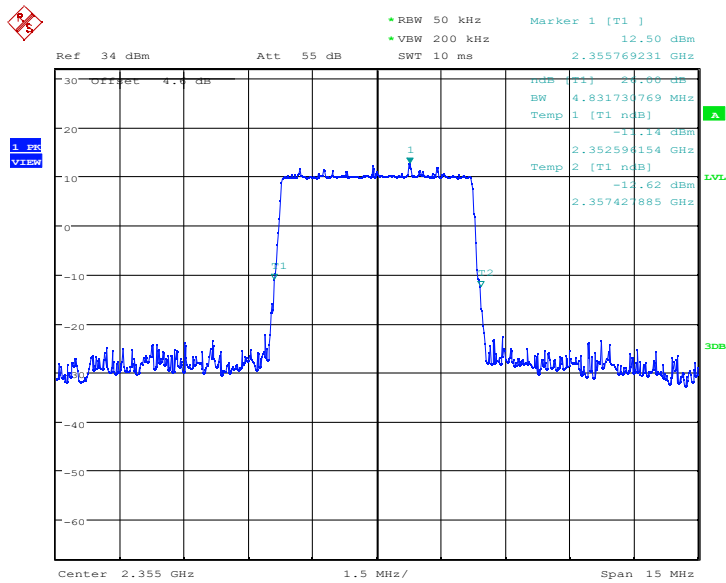


Date: 18.DEC.2024 17:26:37

LTE band 40 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

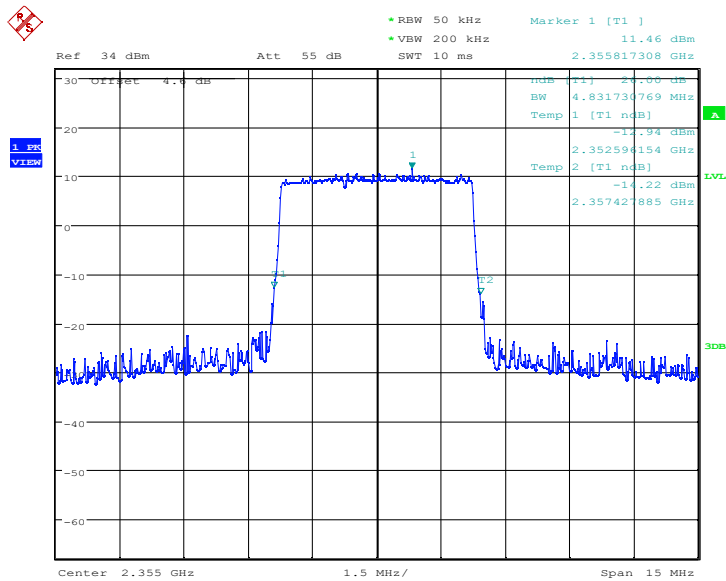
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Date: 18.DEC.2024 17:27:04

LTE band 40 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

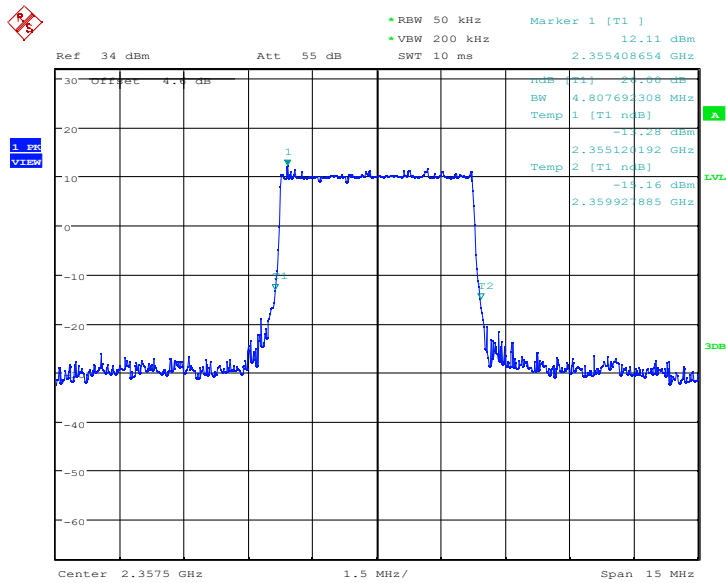


Date: 18.DEC.2024 17:27:25

LTE band 40 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

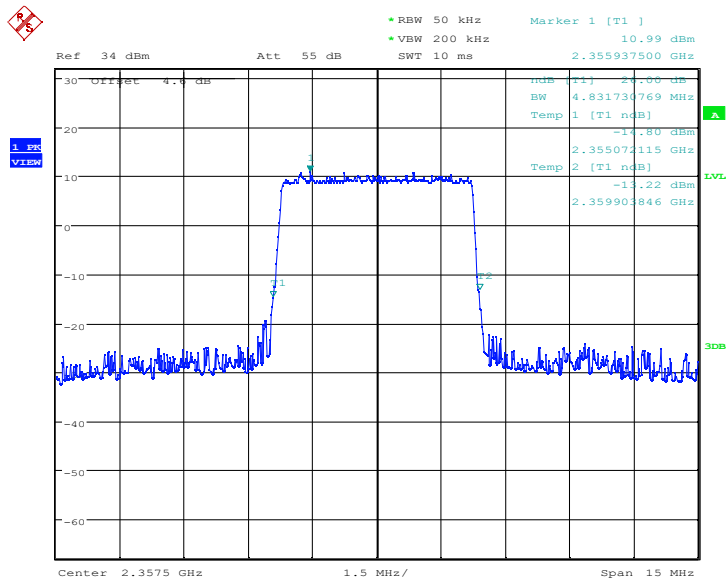
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Date: 18.DEC.2024 17:27:51

LTE band 40 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 18.DEC.2024 17:28:13

LTE band 40 , 5MHz Bandwidth,LOW,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:16:45

Date: 3.JAN.2025 15:10:33

Page 137 of 278



S21
 FREQ VIEW
 MAG VIEW
 A
 LVL

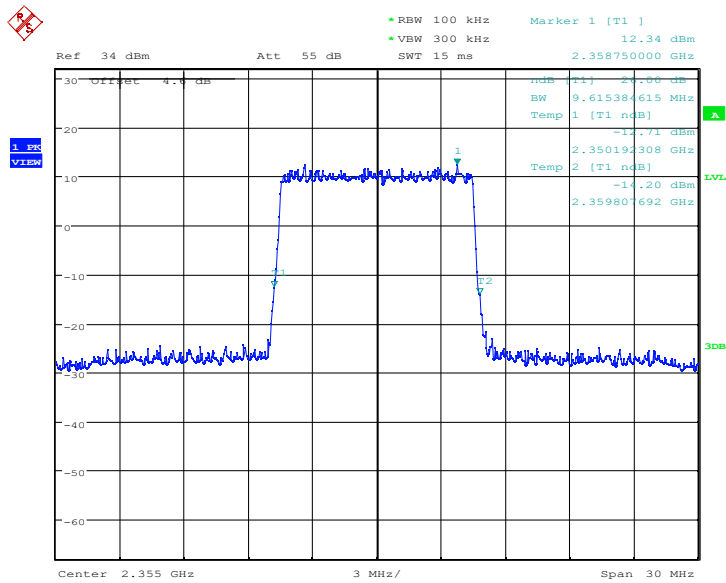
Ref 35 dBm Att 55 dB
 RBW 50 kHz VBW 200 kHz
 Marker 1 [T1]
 11.49 dBm
 2.357596154 GHz
 2.357596154 GHz
 4.855769231 MHz
 1 [T1 dBm]
 -11.49 dBm
 2.355096154 GHz
 2 [T1 dBm]
 -17.81 dBm
 2.359951923 GHz

Center 2.3575 GHz Span 15 MHz
 1.5 MHz/

LTE band 40H,10MHz(-26dBc)

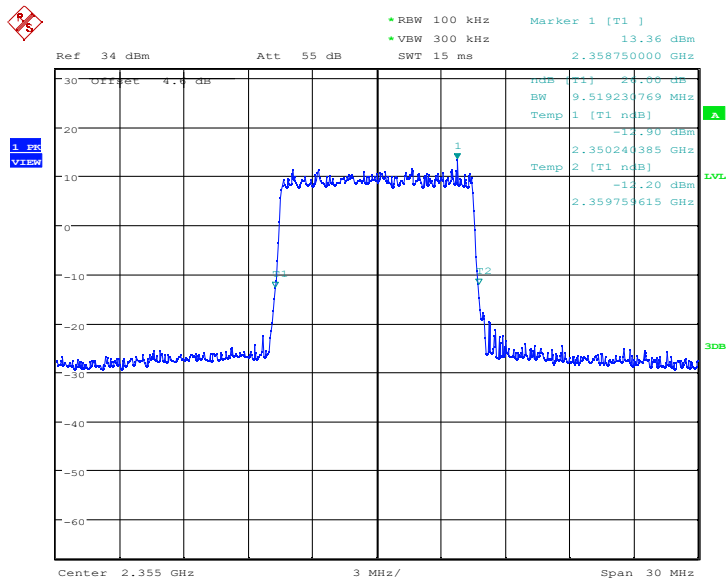
LTE band 40 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)

Page 138 of 278



Date: 18.DEC.2024 17:29:44

LTE band 40 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)

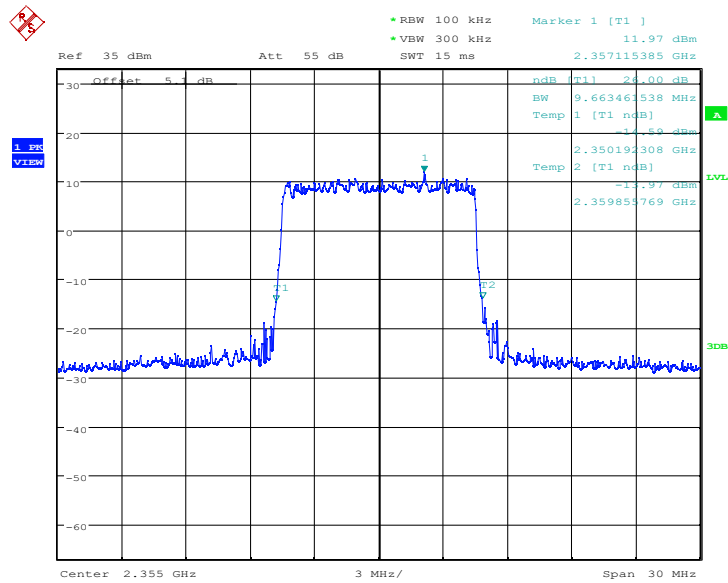


Date: 18.DEC.2024 17:30:06

LTE band 40 , 10MHz Bandwidth,MID,64QAM (-26dBc BW)

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Date: 3.JAN.2025 14:18:50

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6.5. Conducted spurious emissions

Specifications:	FCC Part 27.53(a)/90.691/90.543(e)/90.543(f) RSS 140 4.4,RSS-195 5.6
DUT Serial Number:	IMEI:862072070026816'862072070026824
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 27.53(a):For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

According to Part 90.691:(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than

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37.5 kHz.

According to Part 90.543(e)(f):For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

According to RSS-140 4.4:The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

- a. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. $76 + 10 \log (p)$, dB in a 6.25 kHz band for fixed and base station equipment
 - ii. $65 + 10 \log (p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- b. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz:

$43 + 10 \log (p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

Measurement Uncertainty:

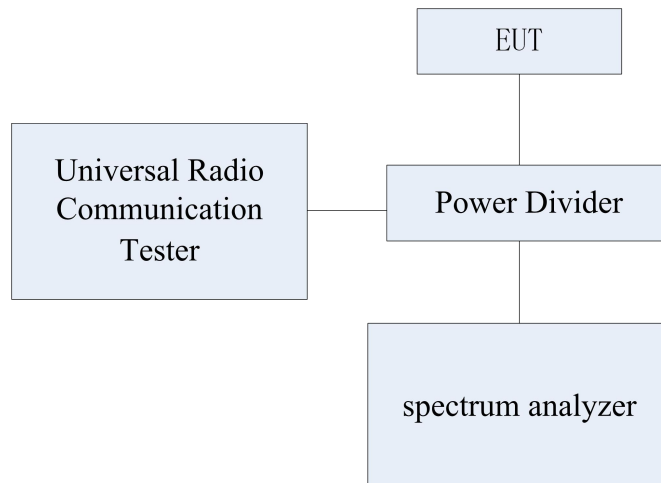
Item	Uncertainty
Expanded Uncertainty	1.54 dB (k=2)

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.

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**Test Method:**

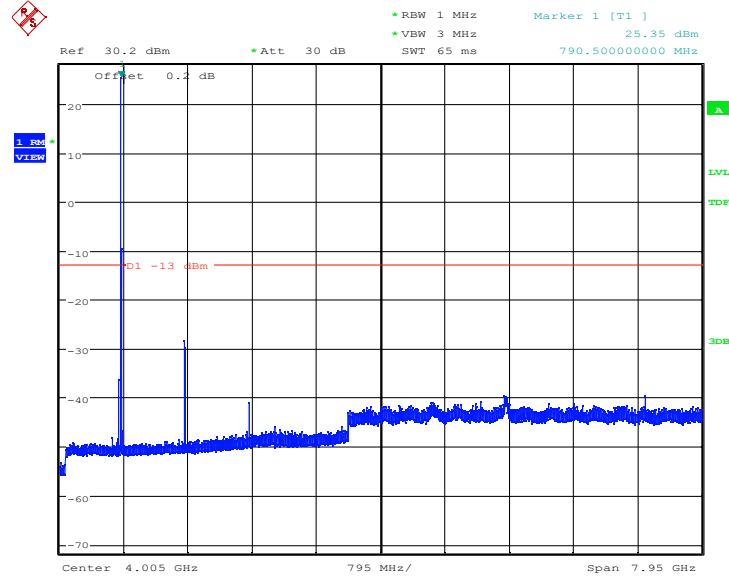
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution.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

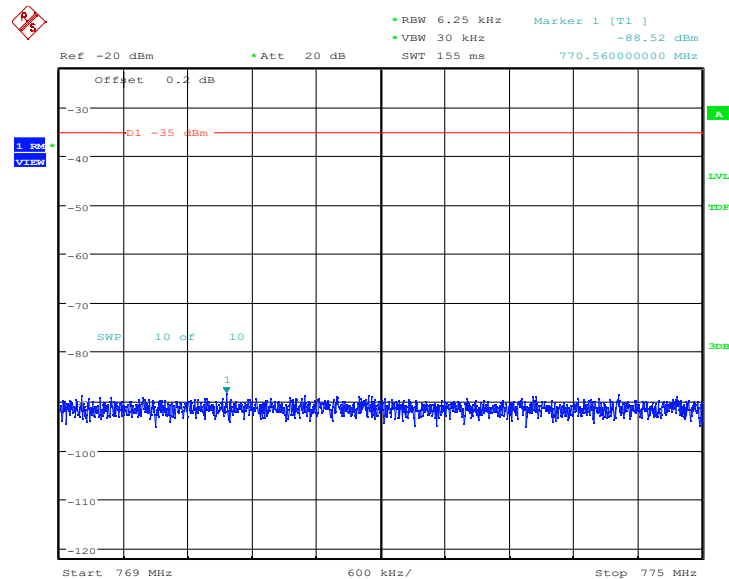
6.5.1 Conducted Spurious Emission Results

LTE band 14-5MHz-QPSK-LOW

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



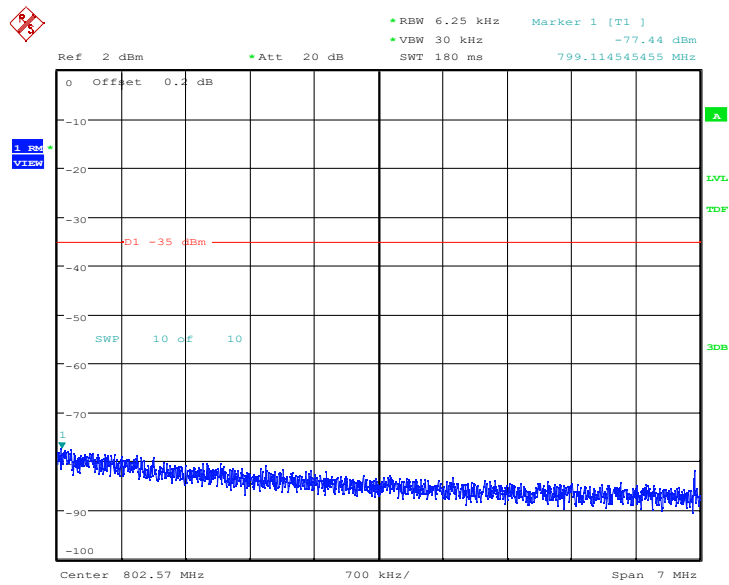
Date: 20.DEC.2024 09:49:08



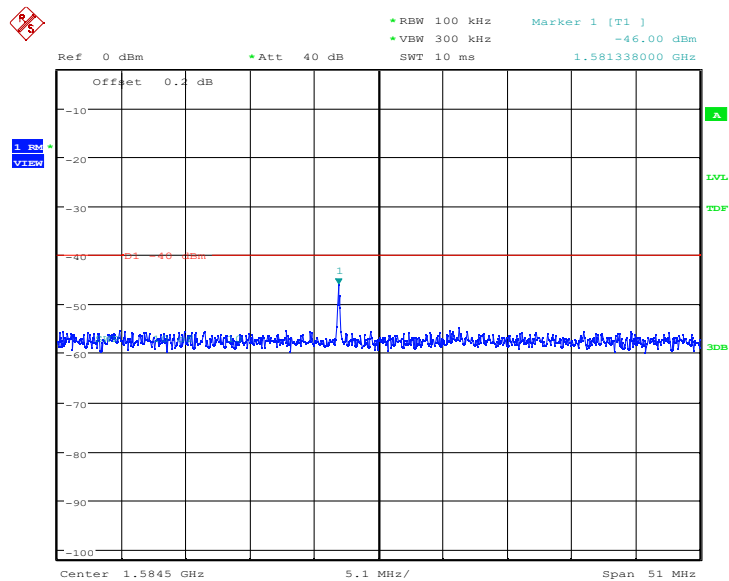
Date: 20.DEC.2024 09:49:43

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Date: 20.DEC.2024 09:50:21



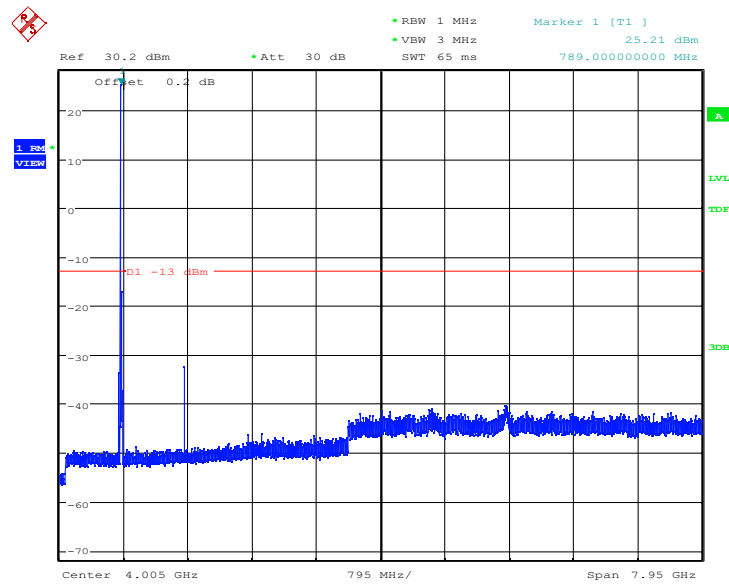
Date: 20.DEC.2024 09:50:58

LTE band 14-10MHz-QPSK-MID

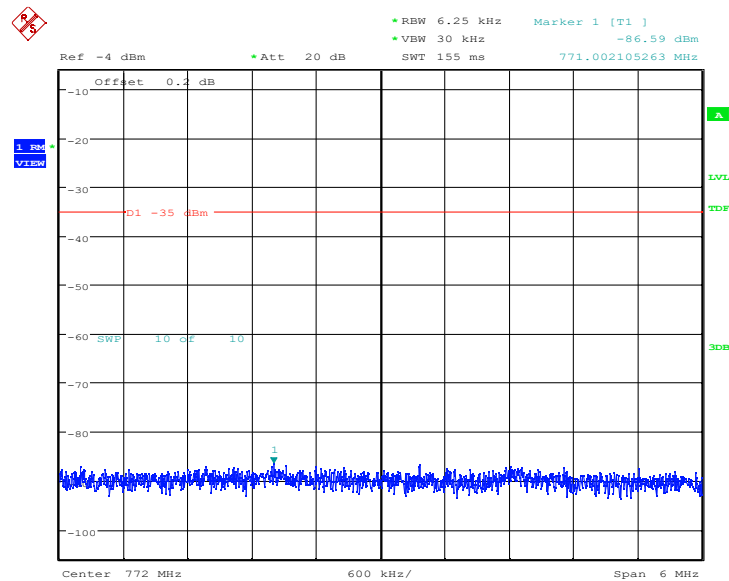
NOTE: peak above the limit line is the carrier frequency.

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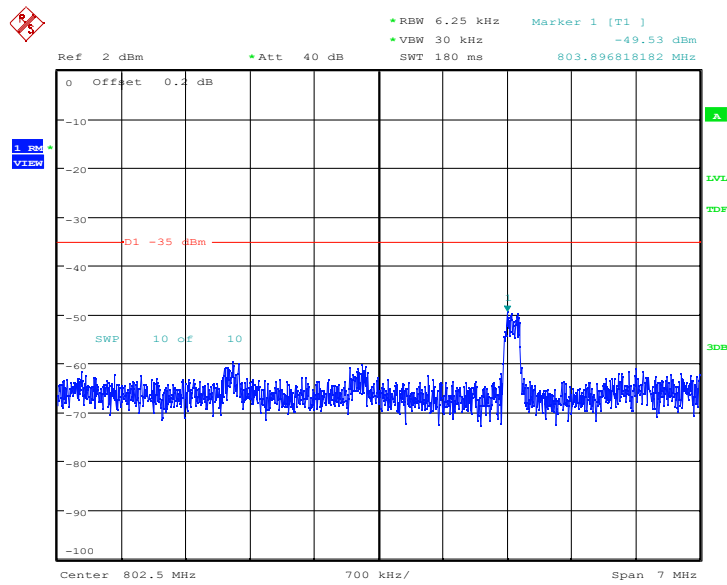
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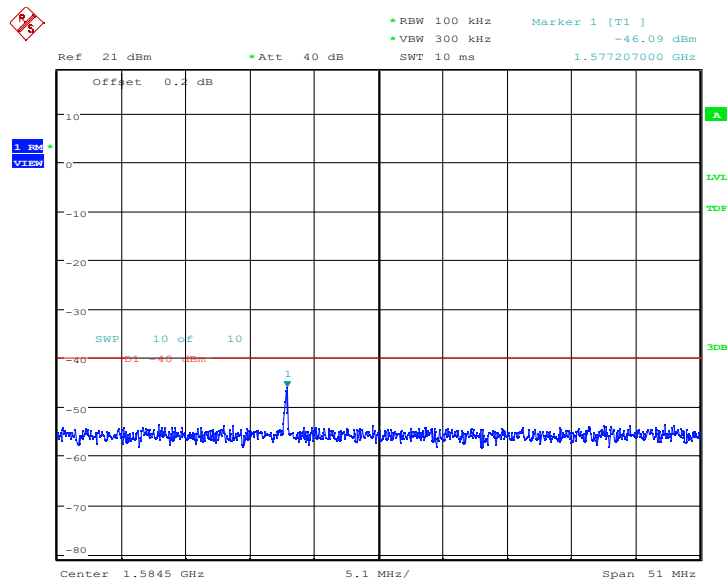
Date: 20.DEC.2024 09:52:12



Date: 20.DEC.2024 09:52:46



Date: 20.DEC.2024 09:53:39



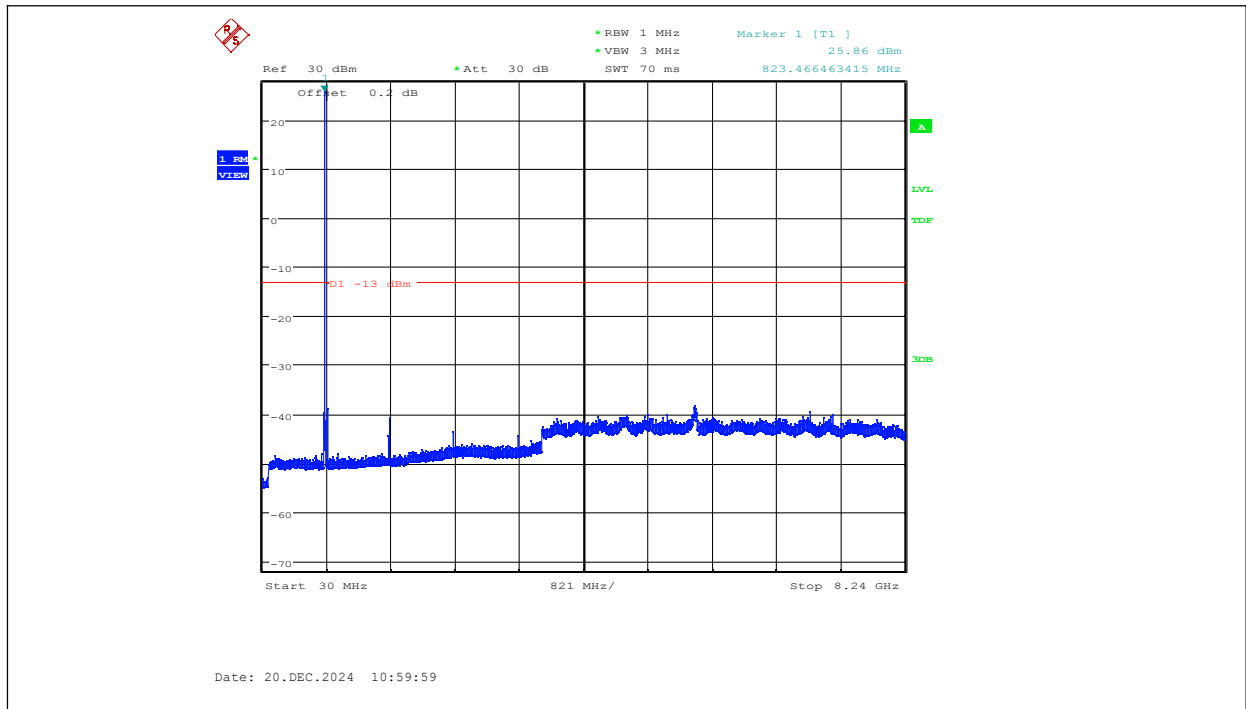
Date: 20.DEC.2024 09:54:14

LTE band 26_Part90-1.4MHz-QPSK-HIGH

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

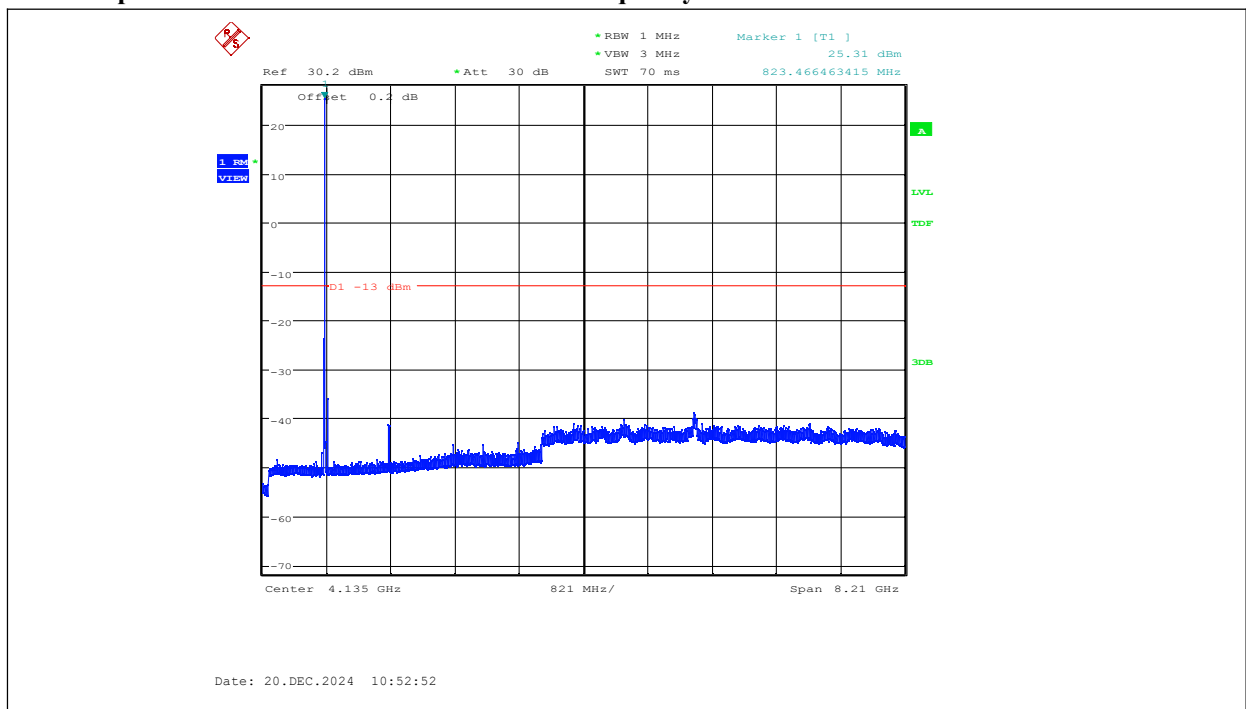
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LTE band 26_Part90-3MHz-QPSK-HIGH

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

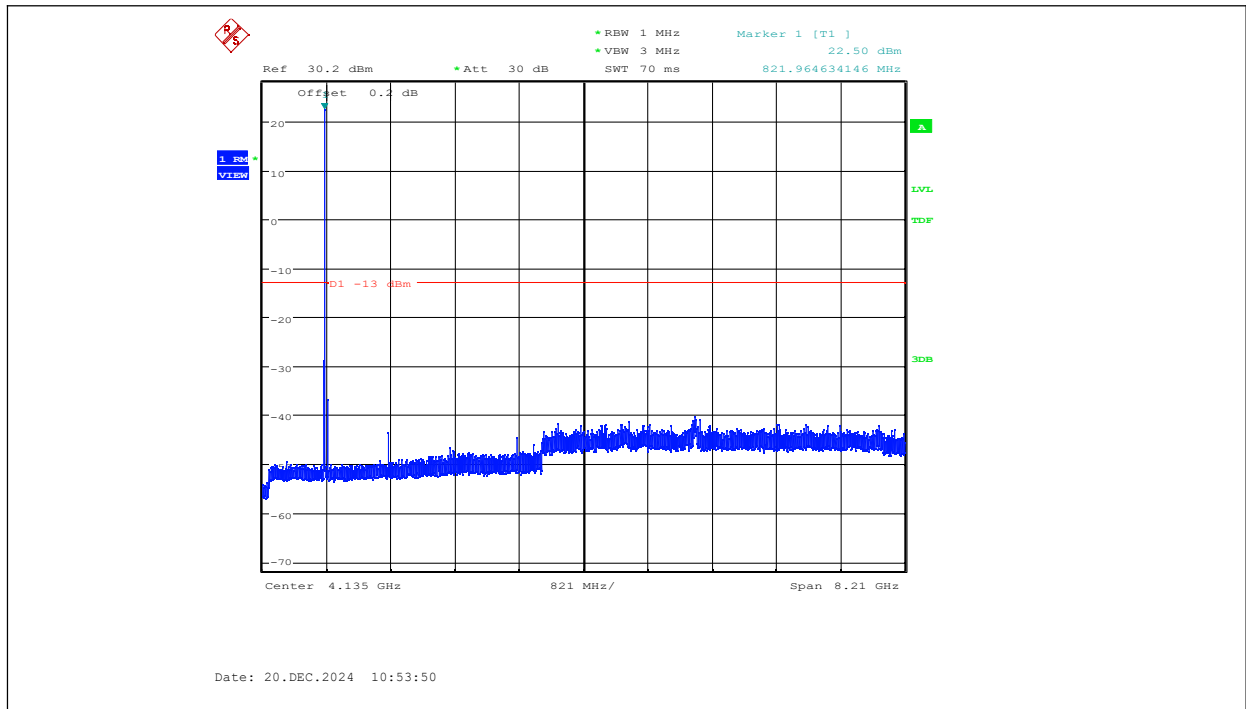


LTE band 26_Part90-5MHz-QPSK-HIGH

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

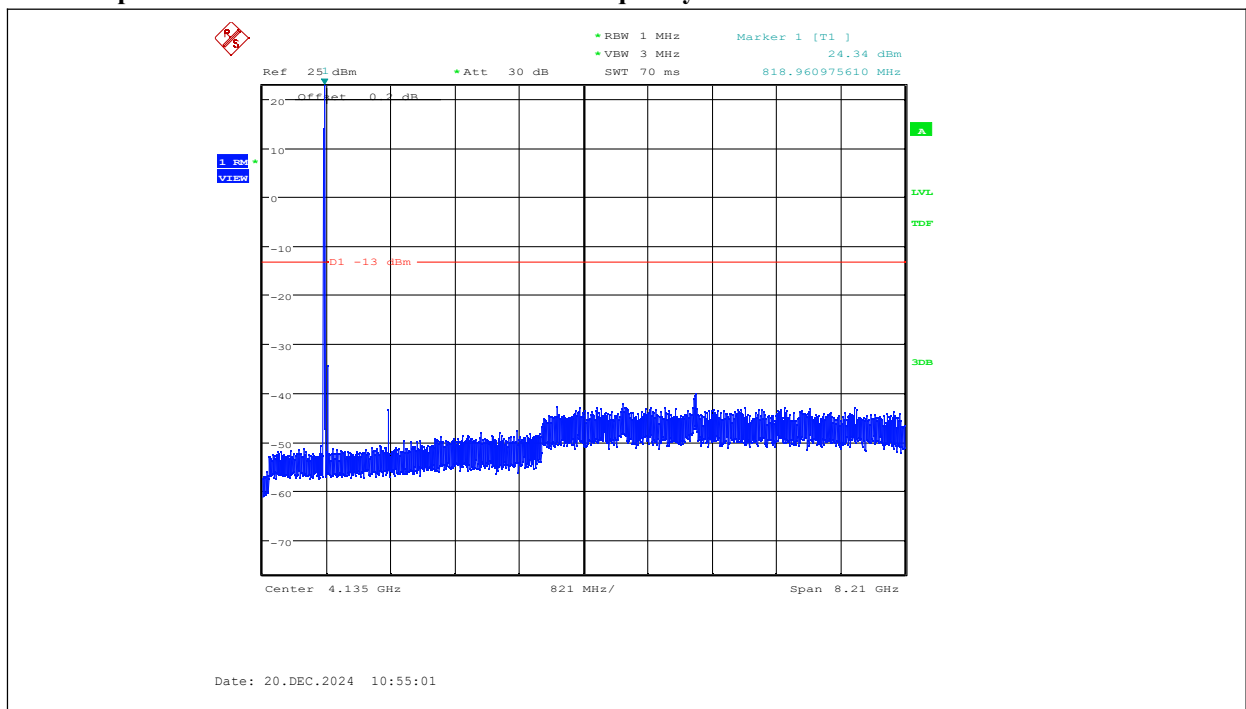
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LTE band 26_Part90-10MHz-QPSK-MID

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

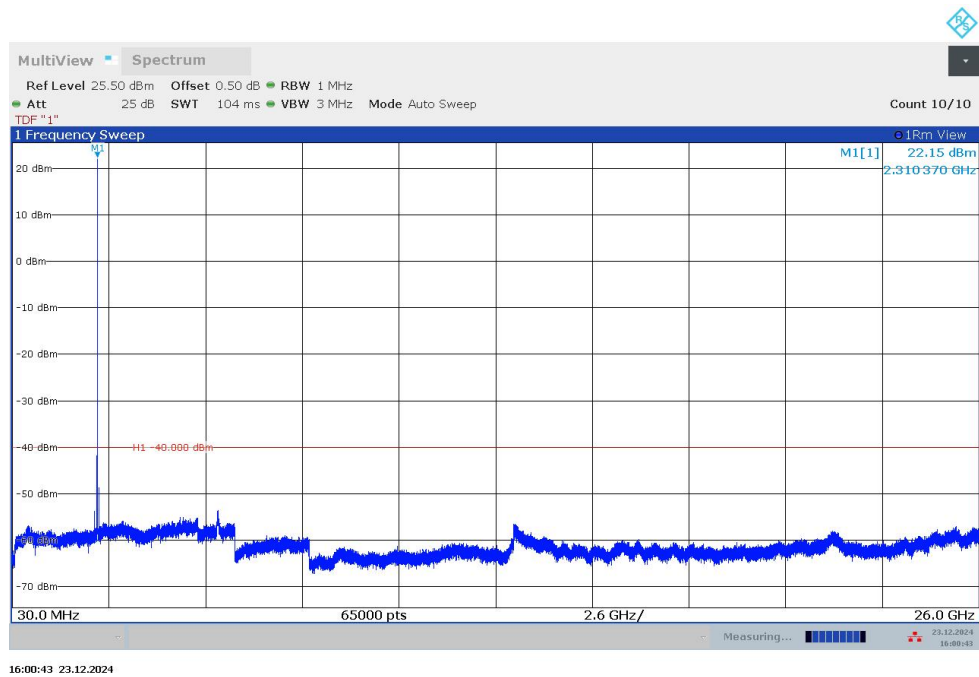


LTE band 30-5MHz-QPSK-MID

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

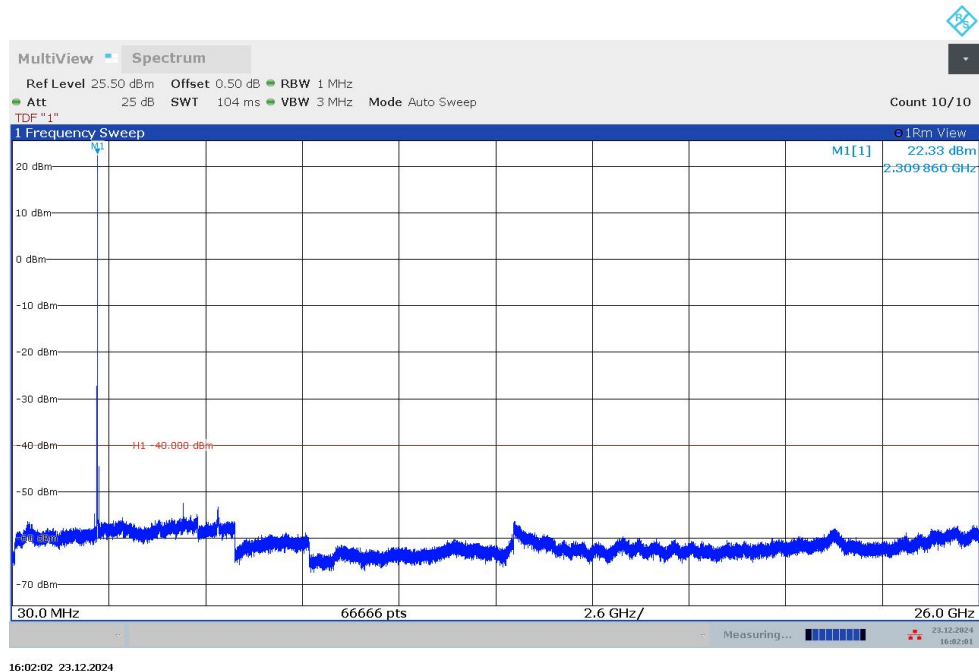
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LTE band 30-10MHz-QPSK-MID

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

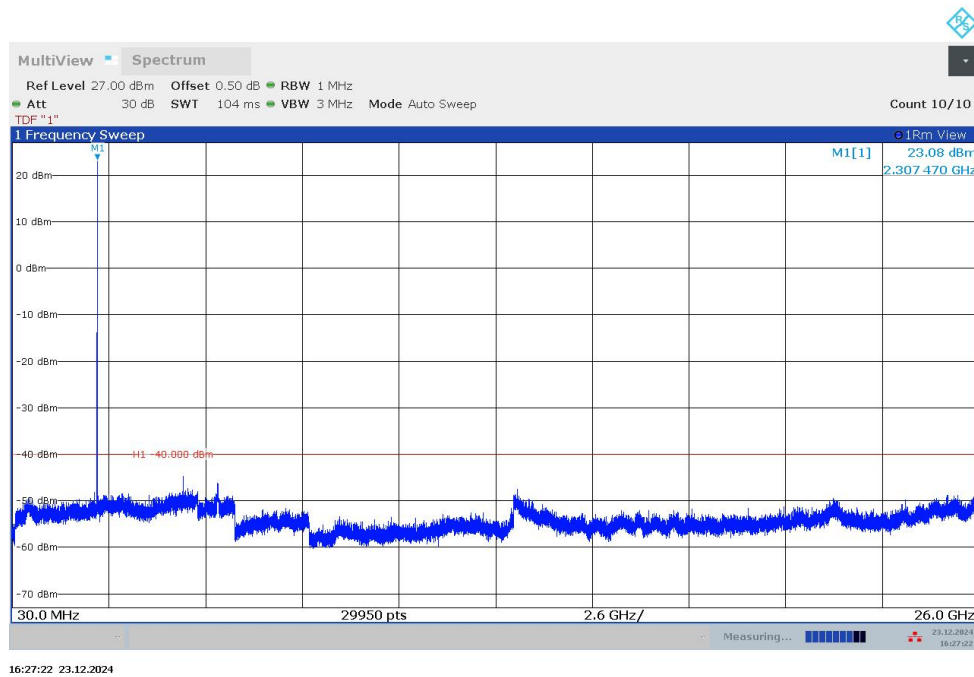


LTE band 40L-5MHz-QPSK-LOW

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

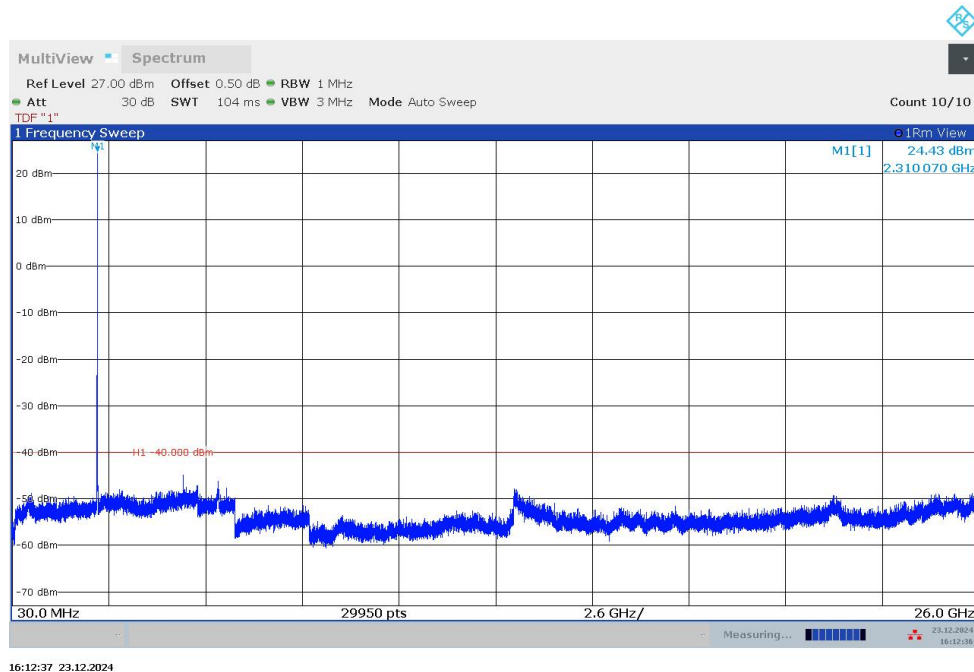
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LTE band 40L-10MHz-QPSK-MID

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

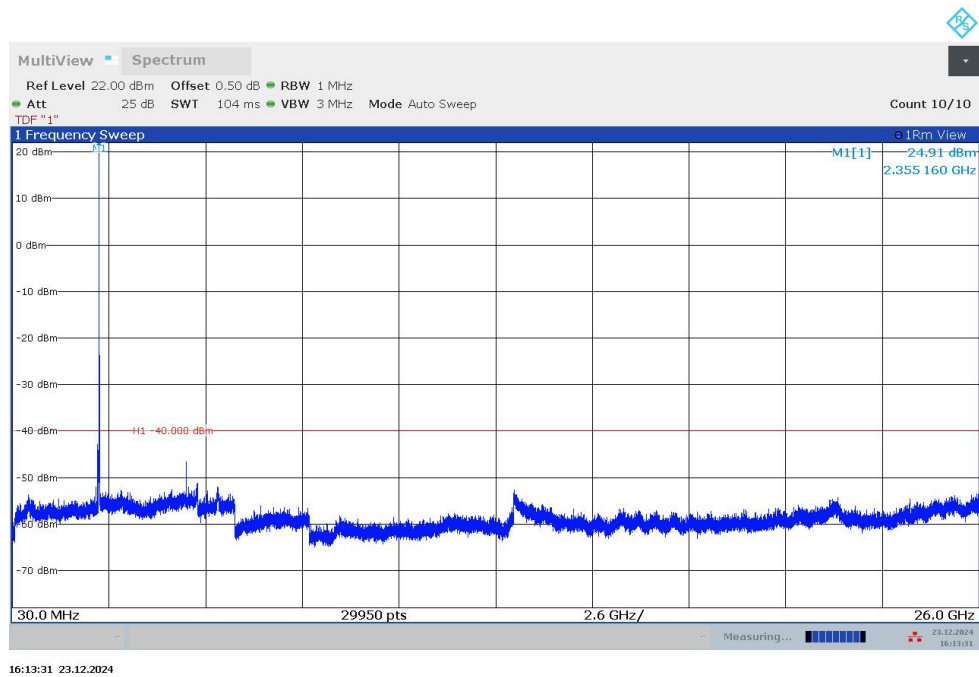


LTE band 40H-5MHz-QPSK-HIGH

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

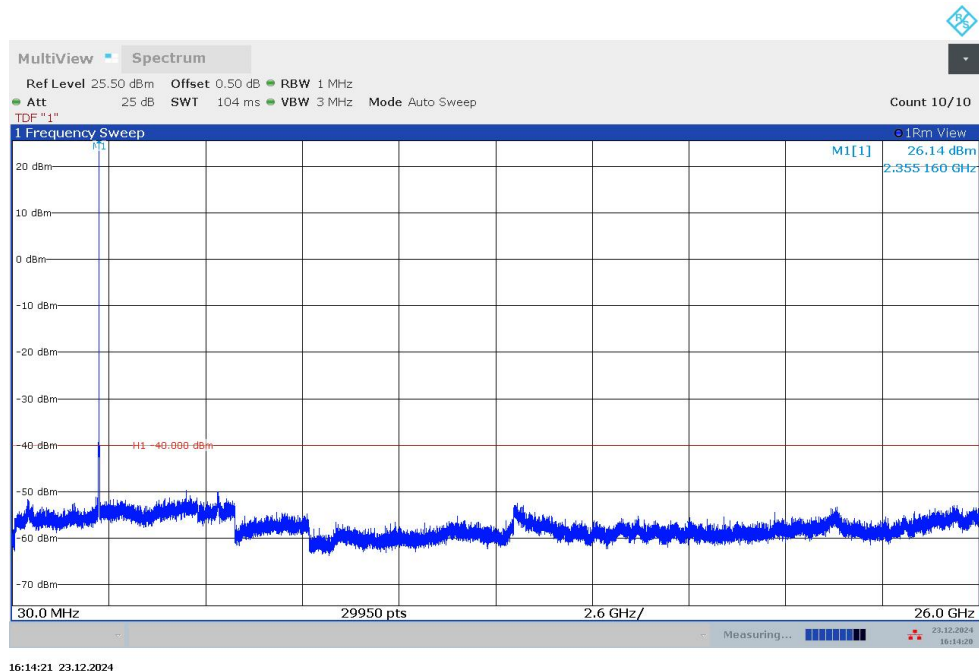
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LTE band 40H-10MHz-QPSK-MID

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



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6.6. Radiated Spurious Emission

Specifications:	FCC Part 27.53(a)/90.691/90.543(e)/90.543(f) RSS 140 4.4,RSS-195 5.6
DUT Serial Number:	IMEI:862072070026931 862072070026949
Test conditions:	Ambient Temperature:19.3°C-20.2°C Relative Humidity:50.0%-51.0% Air pressure: 96.7kPa
Test Results:	Pass

Limit Level Construction:

According to Part 27.53(a):For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

According to Part 90.691:(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency

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removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

According to Part 90.543(e)(f): For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

According to RSS-140 4.4: The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

- c. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. $76 + 10 \log(p)$, dB in a 6.25 kHz band for fixed and base station equipment
 - ii. $65 + 10 \log(p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- d. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz:
 $43 + 10 \log(p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

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Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	3.8 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.0dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	3.1dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	3.2dB (k=2)
Expanded Uncertainty (6GHz-20GHz)	3.9dB (k=2)

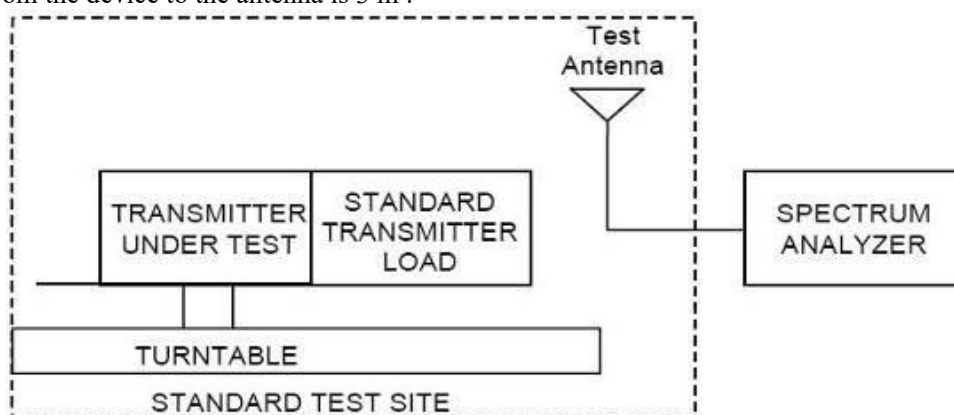
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

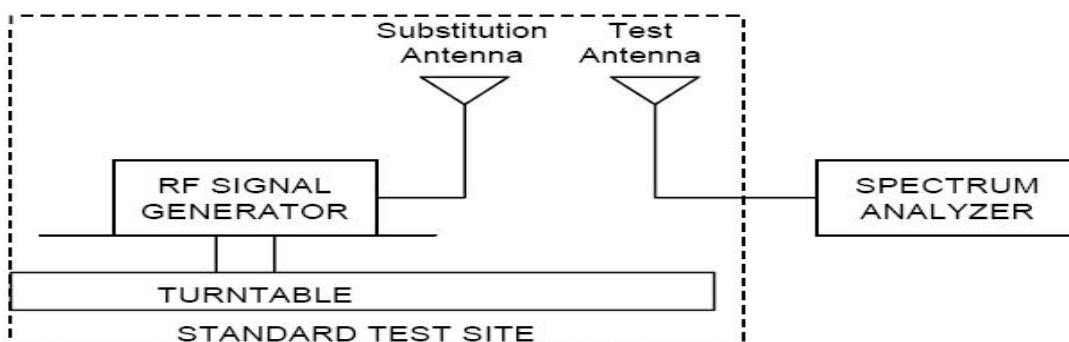
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna

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should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

Test frequency: 30MHz- 20GHz

All modes were tested,only the worst case was reported.

6.6.1 LTE Radiated Spurious Emission Results

LTE B14 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 23305 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
65.490000	-73.34	0.1	-2.3	-75.74	62.74	-13	V
1581.000000	-66.14	1.0	7.2	-59.94	19.94	-40	H
2372.000000	-62.76	1.2	10.3	-53.66	40.66	-13	H
6536.612903	-70.01	2.2	12.5	-59.71	46.71	-13	H
8775.000000	-68.47	2.8	11.9	-59.37	46.37	-13	H
10921.500000	-64.18	3.3	11.8	-55.68	42.68	-13	V

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1581.000000	-66.14	1.0	7.2	-59.94	H

The max radiated power of 1559-1610 MHz is -59.94dBm<-40dBm (-70dBW/MHz) .

There is no signal that bandwidth is less than 700 Hz bandwidth

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LTE B14 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 23330 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
65.784000	-70.79	0.1	-2.3	-73.19	60.19	-13	V
1586.000000	-66.11	1.0	7.2	-59.91	19.91	-40	H
2379.500000	-62.66	1.2	10.3	-53.56	40.56	-13	H
6543.387097	-70.00	2.2	12.5	-59.70	46.70	-13	H
8745.967742	-68.75	2.8	11.9	-59.65	46.65	-13	H
10984.500000	-64.18	3.3	11.8	-55.68	42.68	-13	H

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1586.000000	-66.11	1.0	7.2	-59.91	H

The max radiated power of 1559-1610 MHz is -59.91dBm<-40dBm (-70dBW/MHz) .

There is no signal that bandwidth is less than 700 Hz bandwidth

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LTE B14 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 23355 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
597.350000	-67.79	0.6	6.8	-61.59	48.59	-13	H
1591.500000	-67.06	0.9	7.2	-60.76	20.76	-40	H
2915.500000	-64.22	1.3	11.4	-54.12	41.12	-13	V
6528.387097	-69.79	2.2	12.5	-59.49	46.49	-13	H
7242.580645	-70.98	2.2	12.2	-60.98	47.98	-13	H
11521.500000	-64.25	2.8	11.6	-55.45	42.45	-13	H

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1591.500000	-67.06	0.9	7.2	-60.76	H

The max radiated power of 1559-1610 MHz is -60.76dBm<-40dBm (-70dBW/MHz) .

There is no signal that bandwidth is less than 700 Hz bandwidth

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LTE B26 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 26715 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
68.640000	-75.62	0.1	-2.3	-78.02	65.02	-13	V
1633.500000	-66.78	1.0	7.2	-60.58	47.58	-13	H
2450.000000	-61.69	1.3	10.3	-52.69	39.69	-13	H
3266.612903	-72.21	1.6	12.1	-61.71	48.71	-13	H
4083.387097	-72.57	2.2	12.6	-62.17	49.17	-13	H
4900.161290	-66.96	2.1	12.8	-56.26	43.26	-13	H

LTE B26 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 26740 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1638.500000	-65.92	1.0	7.2	-59.72	46.72	-13	H
2589.500000	-63.40	1.2	10.3	-54.30	41.3	-13	H
2915.500000	-64.27	1.2	11.4	-54.07	41.07	-13	V
3276.774194	-73.38	1.6	12.1	-62.88	49.88	-13	H
4915.161290	-67.41	2.1	12.8	-56.71	43.71	-13	H
11017.000000	-64.35	2.8	11.8	-55.35	42.35	-13	V

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LTE B26 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 26765 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
64.734000	-71.47	0.1	-5.6	-77.17	64.17	-13	V
1643.000000	-65.53	1.0	7.2	-59.33	46.33	-13	H
2914.500000	-64.16	1.3	11.4	-54.06	41.06	-13	V
3286.451613	-71.05	1.6	12.1	-60.55	47.55	-13	H
4108.064516	-72.48	2.2	12.6	-62.08	49.08	-13	H
4930.161290	-63.88	2.3	12.8	-53.38	40.38	-13	H

LTE B30 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 27685 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1102.800000	-71.96	0.7	4.4	-68.26	28.26	-40	V
2071.500000	-69.61	1.2	10.0	-60.81	20.81	-40	V
2633.500000	-63.19	1.3	10.3	-54.19	14.19	-40	H
3517.741936	-75.98	1.7	12.1	-65.58	25.58	-40	V
6538.548387	-69.89	2.2	12.5	-59.59	19.59	-40	H
10985.500000	-63.93	3.3	11.8	-55.43	15.43	-40	V

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LTE B30 Radiated Spurious Emission Results
Test Data (5MHz bandwidth 27710 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1101.600000	-72.08	0.7	4.4	-68.38	28.38	-40	V
1545.500000	-68.74	0.9	7.2	-62.44	22.44	-40	H
2069.000000	-69.69	1.2	10.0	-60.89	20.89	-40	V
4615.645161	-64.20	1.8	12.6	-53.40	13.40	-40	H
6923.709677	-65.44	2.5	12.2	-55.74	15.74	-40	V
9231.000000	-65.38	3.3	11.9	-56.78	16.78	-40	V

LTE B30 Radiated Spurious Emission Results
Test Data (5MHz bandwidth 27735 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
70.194000	-83.10	0.1	-2.3	-85.50	45.50	-40	V
149.532000	-92.61	0.3	5.0	-87.91	47.91	-40	V
837.520000	-84.55	0.6	7.4	-77.75	37.75	-40	V
4625.322581	-69.43	1.8	12.6	-58.63	18.63	-40	H
6528.870968	-69.92	2.2	12.5	-59.62	19.62	-40	H
11514.000000	-64.19	2.8	11.6	-55.39	15.39	-40	H

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LTE B40 Radiated Spurious Emission Results
Test Data (5MHz bandwidth 39175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
62.508000	-71.26	0.1	-5.6	-76.96	36.96	-40	V
1102.400000	-72.05	0.7	4.4	-68.35	28.35	-40	V
1844.500000	-70.26	1.0	10.0	-61.26	21.26	-40	V
4705.161290	-72.19	2.1	12.6	-61.69	21.69	-40	V
6529.838710	-69.86	2.2	12.5	-59.56	19.56	-40	H
10870.500000	-63.90	3.0	11.0	-55.90	15.90	-40	V

LTE B40 Radiated Spurious Emission Results
Test Data (5MHz bandwidth 39200 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
63.222000	-70.67	0.1	-5.6	-76.37	36.37	-40	V
150.120000	-87.26	0.3	5.0	-82.56	42.56	-40	V
1844.500000	-70.28	1.0	10.0	-61.28	21.28	-40	V
4708.548387	-72.58	2.1	12.6	-62.08	22.08	-40	V
6535.645161	-69.91	2.2	12.5	-59.61	19.61	-40	H
10927.500000	-64.05	3.3	11.8	-55.55	15.55	-40	H

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LTE B40 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 39225 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1102.400000	-72.04	0.7	4.4	-68.34	28.34	-40	V
1848.500000	-70.21	1.0	10.0	-61.21	21.21	-40	V
2602.500000	-62.29	1.3	10.3	-53.29	13.29	-40	V
4713.870968	-73.14	2.1	12.6	-62.64	22.64	-40	V
6526.935484	-69.97	2.2	12.5	-59.67	19.67	-40	H
10919.500000	-63.72	3.3	11.8	-55.22	15.22	-40	V

LTE B40 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 38725 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1544.500000	-53.32	1.0	7.2	-47.12	7.12	-40	H
1843.500000	-70.41	1.0	10.0	-61.41	21.41	-40	V
2648.000000	-63.60	1.2	10.3	-54.50	14.50	-40	H
4615.161290	-74.81	1.8	12.6	-64.01	24.01	-40	H
6516.290323	-70.13	2.2	12.5	-59.83	19.83	-40	H
10926.500000	-63.35	3.3	11.8	-54.85	14.85	-40	V

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LTE B40 Radiated Spurious Emission Results
Test Data (5MHz bandwidth 38750 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1100.000000	-72.26	0.7	4.4	-68.56	28.56	-40	V
1552.500000	-64.76	1.0	7.2	-58.56	18.56	-40	H
2610.500000	-63.23	1.2	10.3	-54.13	14.13	-40	H
4620.483871	-67.99	1.8	12.6	-57.19	17.19	-40	H
6533.225807	-69.83	2.2	12.5	-59.53	19.53	-40	H
10929.000000	-63.61	3.3	11.8	-55.11	15.11	-40	V

LTE B40 Radiated Spurious Emission Results
Test Data (10MHz bandwidth 38750 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Margin (dB)	Limit(dBm)	Antenna Polarization [H/V]
1107.200000	-72.08	0.7	4.4	-68.38	28.38	-40	V
1843.000000	-70.39	1.0	10.0	-61.39	21.39	-40	V
2635.000000	-63.40	1.2	10.3	-54.30	14.30	-40	H
4625.322581	-75.03	1.8	12.6	-64.23	24.23	-40	H
6526.935484	-70.01	2.2	12.5	-59.71	19.71	-40	H
11047.000000	-63.67	2.8	11.8	-54.67	14.67	-40	H

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6.7. Band Edge

Specifications:	FCC Part 27.53(a)/90.691/90.543(e)/90.543(f) RSS 140 4.4,RSS-195 5.6
DUT Serial Number:	IMEI:862072070026816*862072070026824
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 27.53(a):For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

According to Part 90.691:(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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According to Part 90.543(e)(f):For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

According to RSS-140 4.4:The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

- e. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. $76 + 10 \log (p)$, dB in a 6.25 kHz band for fixed and base station equipment
 - ii. $65 + 10 \log (p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- f. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz:
 $43 + 10 \log (p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.32 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.

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