



TEST REPORT

REPORT NUMBER: 24B02W000008-001

ON

Type of Equipment:	tracker
Type of Designation:	PT102V
Brand Name:	Prime
Manufacturer:	Micron Electronics LLC.
FCC ID:	ZKQ-PT102V

ACCORDING TO

FCC Part 2

FCC part 27

ANSI C63.26-2015

Chongqing Academy of Information and Communications Technology

Month date, year

Mar ,22, 2024

Signature



Jin Zhou

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.: 24B02W000008-001

Revision Version

Report Number	Revision	Date
24B02W000008-001	00	2024-03-22

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
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:	2024-03-04
Testing End Date:	2024-03-08

1.4. Signature



2024-03-22

Junxin Dong
(Prepared this test report)

Date

2024-03-22

Lili Wang
(Reviewed this test report)

Date

2024-03-22

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

Date

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2. Client Information

2.1. Applicant Information

Company name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 888 538 3489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

2.2. Manufacturer Information

Company Name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 888 538 3489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

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

3.1. About EUT

EUT Description	tracker
Model name	PT102V
Brand name	Prime
LTE Frequency Band	4/13
Type of modulation	QPSK/16QAM
Extreme Temperature	-10/+60°C
Nominal Test Voltage	DC 3.8V
Extreme Test High Voltage	DC 4.2V
Extreme Test Low Voltage	DC 3.5V

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

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

3.2. Internal Identification of EUT used during the test

EUT ID	SN or IMEI	HW Version	SW Version	Date of receipt
24B02W000008#S1	IMEI:866484030180649	PT102_V2_PCBA	PT102V03.01 B07	2024-02-29
24B02W000008#S6	IMEI:866484030180465	PT102_V2_PCBA	PT102V03.01 B07	2024-02-29

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

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3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
LTE	B4	1710-1755	2110-2155	16QAM only supports 1.4M, 3M and 5M bandwidth
	B13	777-787	746-756	16QAM only supports 5M bandwidth

3.4. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF cable	B4:1.0 B13:0.8

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

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2024-06-28
2	DC Power Supply	62015L-60-6	L02000001587	--	--	Chroma	2024-06-28
3	Universal Radio Communication Tester	CMW500	166779	--	--	R&S	2024-06-28
4	Splitter	--	--	--	--	--	--

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2024-06-28
2	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2024-06-28
3	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2024-10-28
4	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2024-05-05
5	Ultra-wideband Log Periodic Antenna	VULB 9163	00995	--	--	Schwarzbeck	2025-09-11
6	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2024-12-14
7	High gain horn antenna	DATE 1152	LM7127			ETS	2024-09-06
8	Fully-Anechoic Chamber	FAC5	--	--	--	TDK	2024-09-22
9	Generator	SMU 200A	104517	--	--	R&S	2024-06-28
10	Amplifier1	SCU-08F1	8320027	--	--	R&S	--
11	Amplifier2	SCU-18F	180093	--	--	R&S	--

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5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	VT4002	518602722 023003	KQSN	2024-06-28

5.4. Vibration table

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

5.5. Test software

No.	Name	version	SN	Manufacture
1	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.
2	EMC32	V9.26.01	--	Manufacturer:RS

6. Test Results

6.1. Summary of Test Results

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

FCC Rules	Name of Test	Result
2.1046,27.50	Conducted RF Power Output	Pass
2.1046,27.50	ERP and EIRP	Pass
2.1049	Occupied Bandwidth	*Note 1
2.1051,2.1053,27.53	Conducted spurious emissions	Pass
2.1051,2.1053,27.53	Radiated Spurious Emission	Pass
2.1051,2.1053, 27.53	Band Edge	Pass
2.1055, 27.54	Frequency Stability	Pass
27.50	Peak to Average Ratio	Pass

Note 1: No applicable performance criteria.

Note 2: Explanation of worst-case configuration The worst-case scenario for all measurements is based on the conducted output power. Output power was measured on QPSK,16QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

Note 3: The prototype type is Cat1.

6.2. Conducted RF Power Output

Specifications:	FCC Part 2.1046,27.50
DUT Serial Number:	IMEI:866484030180649
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 27.50(b):Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

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

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.6 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



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 4

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
1.4MHz	1 RB low	1710.7	QPSK	25.57	30.18
1.4MHz	1 RB mid	1710.7	QPSK	25.72	30.15
1.4MHz	1 RB high	1710.7	QPSK	25.57	30.18
1.4MHz	50%,low	1710.7	QPSK	25.51	28.74
1.4MHz	50% RB mid	1710.7	QPSK	25.33	30.15
1.4MHz	50%,high	1710.7	QPSK	25.35	28.58
1.4MHz	100% RB	1710.7	QPSK	24.19	29.74
1.4MHz	1 RB low	1710.7	16QAM	24.45	29.92
1.4MHz	1 RB mid	1710.7	16QAM	24.49	29.86
1.4MHz	1 RB high	1710.7	16QAM	24.43	29.92
1.4MHz	50%,low	1710.7	16QAM	24.92	28.16
1.4MHz	50% RB mid	1710.7	16QAM	24.10	29.81
1.4MHz	50%,high	1710.7	16QAM	24.74	27.98
1.4MHz	100% RB	1710.7	16QAM	22.89	29.38
1.4MHz	1 RB low	1732.5	QPSK	25.36	29.92
1.4MHz	1 RB mid	1732.5	QPSK	25.37	29.78
1.4MHz	1 RB high	1732.5	QPSK	25.25	29.78
1.4MHz	50%,low	1732.5	QPSK	25.21	28.49
1.4MHz	50% RB mid	1732.5	QPSK	25.44	30.04
1.4MHz	50%,high	1732.5	QPSK	25.46	28.73
1.4MHz	100% RB	1732.5	QPSK	24.20	29.52
1.4MHz	1 RB low	1732.5	16QAM	24.52	30.00
1.4MHz	1 RB mid	1732.5	16QAM	24.62	29.96
1.4MHz	1 RB high	1732.5	16QAM	24.52	29.98
1.4MHz	50%,low	1732.5	16QAM	25.28	28.57
1.4MHz	50% RB mid	1732.5	16QAM	24.12	29.77
1.4MHz	50%,high	1732.5	16QAM	25.35	28.62
1.4MHz	100% RB	1732.5	16QAM	23.17	29.40
1.4MHz	1 RB low	1754.3	QPSK	24.97	29.48
1.4MHz	1 RB mid	1754.3	QPSK	25.10	29.46
1.4MHz	1 RB high	1754.3	QPSK	25.33	29.54
1.4MHz	50%,low	1754.3	QPSK	25.26	28.41
1.4MHz	50% RB mid	1754.3	QPSK	25.18	29.61
1.4MHz	50%,high	1754.3	QPSK	25.21	28.35

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1.4MHz	100% RB	1754.3	QPSK	24.09	29.53
1.4MHz	1 RB low	1754.3	16QAM	24.05	29.42
1.4MHz	1 RB mid	1754.3	16QAM	24.28	29.39
1.4MHz	1 RB high	1754.3	16QAM	24.12	29.34
1.4MHz	50%,low	1754.3	16QAM	25.16	28.31
1.4MHz	50% RB mid	1754.3	16QAM	24.15	29.55
1.4MHz	50%,high	1754.3	16QAM	25.03	28.20
1.4MHz	100% RB	1754.3	16QAM	22.95	29.37
3MHz	1 RB low	1711.5	QPSK	25.21	29.80
3MHz	1 RB mid	1711.5	QPSK	25.06	29.67
3MHz	1 RB high	1711.5	QPSK	24.78	29.64
3MHz	50%,low	1711.5	QPSK	24.68	27.88
3MHz	50% RB mid	1711.5	QPSK	23.85	29.07
3MHz	50%,high	1711.5	QPSK	24.71	27.91
3MHz	100% RB	1711.5	QPSK	23.89	29.47
3MHz	1 RB low	1711.5	16QAM	23.87	29.48
3MHz	1 RB mid	1711.5	16QAM	23.83	29.34
3MHz	1 RB high	1711.5	16QAM	23.42	29.29
3MHz	50%,low	1711.5	16QAM	24.58	27.77
3MHz	50% RB mid	1711.5	16QAM	22.70	29.10
3MHz	50%,high	1711.5	16QAM	24.44	27.63
3MHz	100% RB	1711.5	16QAM	22.71	29.35
3MHz	1 RB low	1732.5	QPSK	25.14	29.74
3MHz	1 RB mid	1732.5	QPSK	25.14	29.59
3MHz	1 RB high	1732.5	QPSK	25.10	29.67
3MHz	50%,low	1732.5	QPSK	25.15	28.29
3MHz	50% RB mid	1732.5	QPSK	24.05	29.12
3MHz	50%,high	1732.5	QPSK	25.25	28.39
3MHz	100% RB	1732.5	QPSK	23.99	29.59
3MHz	1 RB low	1732.5	16QAM	23.92	29.43
3MHz	1 RB mid	1732.5	16QAM	23.93	29.30
3MHz	1 RB high	1732.5	16QAM	23.96	29.44
3MHz	50%,low	1732.5	16QAM	24.94	28.09
3MHz	50% RB mid	1732.5	16QAM	22.94	28.84
3MHz	50%,high	1732.5	16QAM	25.13	28.27
3MHz	100% RB	1732.5	16QAM	23.23	29.57
3MHz	1 RB low	1753.5	QPSK	24.89	29.45
3MHz	1 RB mid	1753.5	QPSK	25.05	29.33

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3MHz	1 RB high	1753.5	QPSK	25.12	29.41
3MHz	50%,low	1753.5	QPSK	24.89	28.11
3MHz	50% RB mid	1753.5	QPSK	23.80	28.88
3MHz	50%,high	1753.5	QPSK	24.87	28.08
3MHz	100% RB	1753.5	QPSK	23.80	29.37
3MHz	1 RB low	1753.5	16QAM	23.95	29.46
3MHz	1 RB mid	1753.5	16QAM	24.19	29.40
3MHz	1 RB high	1753.5	16QAM	24.10	29.38
3MHz	50%,low	1753.5	16QAM	25.12	28.30
3MHz	50% RB mid	1753.5	16QAM	22.83	28.99
3MHz	50%,high	1753.5	16QAM	24.83	28.05
3MHz	100% RB	1753.5	16QAM	22.53	29.12
5MHz	1 RB low	1712.5	QPSK	24.99	29.63
5MHz	1 RB mid	1712.5	QPSK	24.99	29.57
5MHz	1 RB high	1712.5	QPSK	24.99	29.70
5MHz	50%,low	1712.5	QPSK	23.78	29.18
5MHz	50% RB mid	1712.5	QPSK	23.83	29.21
5MHz	50%,high	1712.5	QPSK	23.81	29.20
5MHz	100% RB	1712.5	QPSK	23.82	29.71
5MHz	1 RB low	1712.5	16QAM	23.85	29.30
5MHz	1 RB mid	1712.5	16QAM	23.50	28.97
5MHz	1 RB high	1712.5	16QAM	23.54	29.14
5MHz	50%,low	1712.5	16QAM	22.88	28.98
5MHz	50% RB mid	1712.5	16QAM	22.73	28.83
5MHz	50%,high	1712.5	16QAM	22.52	28.63
5MHz	100% RB	1712.5	16QAM	22.68	29.38
5MHz	1 RB low	1732.5	QPSK	25.06	29.61
5MHz	1 RB mid	1732.5	QPSK	24.97	29.40
5MHz	1 RB high	1732.5	QPSK	24.90	29.46
5MHz	50%,low	1732.5	QPSK	23.87	28.95
5MHz	50% RB mid	1732.5	QPSK	23.89	28.89
5MHz	50%,high	1732.5	QPSK	24.00	29.18
5MHz	100% RB	1732.5	QPSK	23.91	29.49
5MHz	1 RB low	1732.5	16QAM	24.13	29.63
5MHz	1 RB mid	1732.5	16QAM	24.18	29.53
5MHz	1 RB high	1732.5	16QAM	24.04	29.54
5MHz	50%,low	1732.5	16QAM	22.95	28.95
5MHz	50% RB mid	1732.5	16QAM	22.86	28.67

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5MHz	50%,high	1732.5	16QAM	22.87	28.88
5MHz	100% RB	1732.5	16QAM	22.89	29.36
5MHz	1 RB low	1752.5	QPSK	24.84	29.42
5MHz	1 RB mid	1752.5	QPSK	25.04	29.32
5MHz	1 RB high	1752.5	QPSK	25.00	29.32
5MHz	50%,low	1752.5	QPSK	23.81	29.01
5MHz	50% RB mid	1752.5	QPSK	23.90	28.94
5MHz	50%,high	1752.5	QPSK	24.02	29.10
5MHz	100% RB	1752.5	QPSK	23.86	29.35
5MHz	1 RB low	1752.5	16QAM	23.85	29.41
5MHz	1 RB mid	1752.5	16QAM	23.91	29.22
5MHz	1 RB high	1752.5	16QAM	24.09	29.34
5MHz	50%,low	1752.5	16QAM	22.82	28.88
5MHz	50% RB mid	1752.5	16QAM	22.61	28.66
5MHz	50%,high	1752.5	16QAM	22.93	28.95
5MHz	100% RB	1752.5	16QAM	22.82	29.41
10MHz	1 RB low	1715	QPSK	24.93	29.65
10MHz	1 RB mid	1715	QPSK	25.17	29.87
10MHz	1 RB high	1715	QPSK	24.76	29.66
10MHz	50%,low	1715	QPSK	23.95	29.32
10MHz	50% RB mid	1715	QPSK	23.87	29.21
10MHz	50%,high	1715	QPSK	23.89	29.30
10MHz	100% RB	1715	QPSK	23.82	30.13
10MHz	1 RB low	1732.5	QPSK	24.87	29.58
10MHz	1 RB mid	1732.5	QPSK	25.11	29.56
10MHz	1 RB high	1732.5	QPSK	24.92	29.58
10MHz	50%,low	1732.5	QPSK	23.96	29.18
10MHz	50% RB mid	1732.5	QPSK	23.97	29.07
10MHz	50%,high	1732.5	QPSK	23.99	29.16
10MHz	100% RB	1732.5	QPSK	23.97	29.17
10MHz	1 RB low	1750	QPSK	25.02	29.59
10MHz	1 RB mid	1750	QPSK	25.14	29.55
10MHz	1 RB high	1750	QPSK	25.19	29.47
10MHz	50%,low	1750	QPSK	23.97	29.10
10MHz	50% RB mid	1750	QPSK	23.99	29.14
10MHz	50%,high	1750	QPSK	23.99	29.07
10MHz	100% RB	1750	QPSK	24.03	29.83
15MHz	1 RB low	1717.5	QPSK	24.87	29.63

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15MHz	1 RB mid	1717.5	QPSK	24.86	29.70
15MHz	1 RB high	1717.5	QPSK	24.79	29.64
15MHz	50%,low	1717.5	QPSK	23.83	29.22
15MHz	50% RB mid	1717.5	QPSK	23.81	29.17
15MHz	50%,high	1717.5	QPSK	23.84	29.17
15MHz	100% RB	1717.5	QPSK	23.76	29.75
15MHz	1 RB low	1732.5	QPSK	24.88	29.63
15MHz	1 RB mid	1732.5	QPSK	24.98	29.52
15MHz	1 RB high	1732.5	QPSK	24.95	29.54
15MHz	50%,low	1732.5	QPSK	23.91	29.15
15MHz	50% RB mid	1732.5	QPSK	23.94	29.13
15MHz	50%,high	1732.5	QPSK	23.84	29.11
15MHz	100% RB	1732.5	QPSK	23.83	29.51
15MHz	1 RB low	1747.5	QPSK	25.10	29.58
15MHz	1 RB mid	1747.5	QPSK	24.80	29.37
15MHz	1 RB high	1747.5	QPSK	24.92	29.25
15MHz	50%,low	1747.5	QPSK	23.93	29.18
15MHz	50% RB mid	1747.5	QPSK	23.82	29.03
15MHz	50%,high	1747.5	QPSK	23.67	28.93
15MHz	100% RB	1747.5	QPSK	23.83	29.49
20MHz	1 RB low	1720	QPSK	24.69	29.43
20MHz	1 RB mid	1720	QPSK	25.03	29.63
20MHz	1 RB high	1720	QPSK	24.99	29.59
20MHz	50%,low	1720	QPSK	23.73	29.21
20MHz	50% RB mid	1720	QPSK	23.76	29.05
20MHz	50%,high	1720	QPSK	23.88	29.22
20MHz	100% RB	1720	QPSK	23.70	29.53
20MHz	1 RB low	1732.5	QPSK	24.64	29.37
20MHz	1 RB mid	1732.5	QPSK	25.23	29.62
20MHz	1 RB high	1732.5	QPSK	24.62	29.25
20MHz	50%,low	1732.5	QPSK	23.95	29.12
20MHz	50% RB mid	1732.5	QPSK	23.94	29.13
20MHz	50%,high	1732.5	QPSK	23.84	29.09
20MHz	100% RB	1732.5	QPSK	23.80	29.52
20MHz	1 RB low	1745	QPSK	24.97	29.56
20MHz	1 RB mid	1745	QPSK	24.96	29.56
20MHz	1 RB high	1745	QPSK	24.75	29.25
20MHz	50%,low	1745	QPSK	24.01	29.26

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20MHz	50% RB mid	1745	QPSK	23.88	28.98
20MHz	50%,high	1745	QPSK	23.82	29.03
20MHz	100% RB	1745	QPSK	23.89	29.66

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Avg Power (dBm)	Peak Power (dBm)
5MHz	1 RB low	779.5	QPSK	25.65	29.15
5MHz	1 RB mid	779.5	QPSK	25.80	29.37
5MHz	1 RB high	779.5	QPSK	25.71	29.71
5MHz	50%,low	779.5	QPSK	24.68	29.03
5MHz	50% RB mid	779.5	QPSK	24.72	29.07
5MHz	50%,high	779.5	QPSK	24.95	29.41
5MHz	100% RB	779.5	QPSK	24.70	29.77
5MHz	1 RB low	779.5	16QAM	24.68	28.96
5MHz	1 RB mid	779.5	16QAM	24.83	29.19
5MHz	1 RB high	779.5	16QAM	24.59	29.40
5MHz	50%,low	779.5	16QAM	23.82	28.94
5MHz	50% RB mid	779.5	16QAM	23.88	29.02
5MHz	50%,high	779.5	16QAM	23.70	29.06
5MHz	100% RB	779.5	16QAM	23.65	29.53
5MHz	1 RB low	782	QPSK	25.66	29.40
5MHz	1 RB mid	782	QPSK	25.63	29.66
5MHz	1 RB high	782	QPSK	25.69	29.86
5MHz	50%,low	782	QPSK	24.75	29.31
5MHz	50% RB mid	782	QPSK	24.72	29.29
5MHz	50%,high	782	QPSK	24.70	29.42
5MHz	100% RB	782	QPSK	24.78	30.00
5MHz	1 RB low	782	16QAM	24.28	29.15
5MHz	1 RB mid	782	16QAM	24.15	29.28
5MHz	1 RB high	782	16QAM	24.11	29.38
5MHz	50%,low	782	16QAM	23.77	29.25
5MHz	50% RB mid	782	16QAM	23.48	29.00
5MHz	50%,high	782	16QAM	23.57	29.22
5MHz	100% RB	782	16QAM	23.90	29.94
5MHz	1 RB low	784.5	QPSK	25.63	29.74
5MHz	1 RB mid	784.5	QPSK	25.77	29.76
5MHz	1 RB high	784.5	QPSK	25.52	29.49
5MHz	50%,low	784.5	QPSK	24.69	29.49

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5MHz	50% RB mid	784.5	QPSK	24.72	29.34
5MHz	50%,high	784.5	QPSK	24.77	29.48
5MHz	100% RB	784.5	QPSK	24.67	29.83
5MHz	1 RB low	784.5	16QAM	24.67	29.76
5MHz	1 RB mid	784.5	16QAM	24.73	29.71
5MHz	1 RB high	784.5	16QAM	25.03	29.74
5MHz	50%,low	784.5	16QAM	23.48	29.22
5MHz	50% RB mid	784.5	16QAM	23.53	29.10
5MHz	50%,high	784.5	16QAM	23.49	29.11
5MHz	100% RB	784.5	16QAM	23.75	29.66
10MHz	1 RB low	782	QPSK	25.50	29.16
10MHz	1 RB mid	782	QPSK	26.01	29.97
10MHz	1 RB high	782	QPSK	25.62	29.74
10MHz	50%,low	782	QPSK	24.65	29.16
10MHz	50% RB mid	782	QPSK	24.73	29.36
10MHz	50%,high	782	QPSK	24.68	29.44
10MHz	100% RB	782	QPSK	24.72	29.96

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6.3. ERP and EIRP

Specifications:	FCC Part 2.1046,27.50
DUT Serial Number:	IMEI:866484030180465
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 27.50(b): Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

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

Conducted RF Power+Antenna Gain(dBi)=EIRP

Conducted RF Power+Antenna Gain(dBd)=ERP

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

Frequency Band	AntennaGain (dBi)	AntennaGain (dBd)
LTE Band 4	-4.0	N/A
LTE Band 13	-3.0	-5.15

Note: Antenna Gain is provided customer.

6.3.1 Measurement result

LTE band 4

EIRP Limits 30dBm(1w)

Max EIRP:21.72dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	Radiated Power(dBm) G _T =-4.0 dBi
1.4MHz	1 RB low	1710.7	QPSK	25.57	21.57
1.4MHz	1 RB mid	1710.7	QPSK	25.72	21.72
1.4MHz	1 RB high	1710.7	QPSK	25.57	21.57
1.4MHz	50%,low	1710.7	QPSK	25.51	21.51
1.4MHz	50% RB mid	1710.7	QPSK	25.33	21.33
1.4MHz	50%,high	1710.7	QPSK	25.35	21.35
1.4MHz	100% RB	1710.7	QPSK	24.19	20.19
1.4MHz	1 RB low	1710.7	16QAM	24.45	20.45
1.4MHz	1 RB mid	1710.7	16QAM	24.49	20.49
1.4MHz	1 RB high	1710.7	16QAM	24.43	20.43
1.4MHz	50%,low	1710.7	16QAM	24.92	20.92
1.4MHz	50% RB mid	1710.7	16QAM	24.10	20.10
1.4MHz	50%,high	1710.7	16QAM	24.74	20.74
1.4MHz	100% RB	1710.7	16QAM	22.89	18.89
1.4MHz	1 RB low	1732.5	QPSK	25.36	21.36
1.4MHz	1 RB mid	1732.5	QPSK	25.37	21.37
1.4MHz	1 RB high	1732.5	QPSK	25.25	21.25
1.4MHz	50%,low	1732.5	QPSK	25.21	21.21
1.4MHz	50% RB mid	1732.5	QPSK	25.44	21.44
1.4MHz	50%,high	1732.5	QPSK	25.46	21.46
1.4MHz	100% RB	1732.5	QPSK	24.20	20.20
1.4MHz	1 RB low	1732.5	16QAM	24.52	20.52
1.4MHz	1 RB mid	1732.5	16QAM	24.62	20.62
1.4MHz	1 RB high	1732.5	16QAM	24.52	20.52
1.4MHz	50%,low	1732.5	16QAM	25.28	21.28
1.4MHz	50% RB mid	1732.5	16QAM	24.12	20.12
1.4MHz	50%,high	1732.5	16QAM	25.35	21.35
1.4MHz	100% RB	1732.5	16QAM	23.17	19.17
1.4MHz	1 RB low	1754.3	QPSK	24.97	20.97
1.4MHz	1 RB mid	1754.3	QPSK	25.10	21.10

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1.4MHz	1 RB high	1754.3	QPSK	25.33	21.33
1.4MHz	50%,low	1754.3	QPSK	25.26	21.26
1.4MHz	50% RB mid	1754.3	QPSK	25.18	21.18
1.4MHz	50%,high	1754.3	QPSK	25.21	21.21
1.4MHz	100% RB	1754.3	QPSK	24.09	20.09
1.4MHz	1 RB low	1754.3	16QAM	24.05	20.05
1.4MHz	1 RB mid	1754.3	16QAM	24.28	20.28
1.4MHz	1 RB high	1754.3	16QAM	24.12	20.12
1.4MHz	50%,low	1754.3	16QAM	25.16	21.16
1.4MHz	50% RB mid	1754.3	16QAM	24.15	20.15
1.4MHz	50%,high	1754.3	16QAM	25.03	21.03
1.4MHz	100% RB	1754.3	16QAM	22.95	18.95
3MHz	1 RB low	1711.5	QPSK	25.21	21.21
3MHz	1 RB mid	1711.5	QPSK	25.06	21.06
3MHz	1 RB high	1711.5	QPSK	24.78	20.78
3MHz	50%,low	1711.5	QPSK	24.68	20.68
3MHz	50% RB mid	1711.5	QPSK	23.85	19.85
3MHz	50%,high	1711.5	QPSK	24.71	20.71
3MHz	100% RB	1711.5	QPSK	23.89	19.89
3MHz	1 RB low	1711.5	16QAM	23.87	19.87
3MHz	1 RB mid	1711.5	16QAM	23.83	19.83
3MHz	1 RB high	1711.5	16QAM	23.42	19.42
3MHz	50%,low	1711.5	16QAM	24.58	20.58
3MHz	50% RB mid	1711.5	16QAM	22.70	18.70
3MHz	50%,high	1711.5	16QAM	24.44	20.44
3MHz	100% RB	1711.5	16QAM	22.71	18.71
3MHz	1 RB low	1732.5	QPSK	25.14	21.14
3MHz	1 RB mid	1732.5	QPSK	25.14	21.14
3MHz	1 RB high	1732.5	QPSK	25.10	21.10
3MHz	50%,low	1732.5	QPSK	25.15	21.15
3MHz	50% RB mid	1732.5	QPSK	24.05	20.05
3MHz	50%,high	1732.5	QPSK	25.25	21.25
3MHz	100% RB	1732.5	QPSK	23.99	19.99
3MHz	1 RB low	1732.5	16QAM	23.92	19.92
3MHz	1 RB mid	1732.5	16QAM	23.93	19.93
3MHz	1 RB high	1732.5	16QAM	23.96	19.96
3MHz	50%,low	1732.5	16QAM	24.94	20.94
3MHz	50% RB mid	1732.5	16QAM	22.94	18.94

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3MHz	50%,high	1732.5	16QAM	25.13	21.13
3MHz	100% RB	1732.5	16QAM	23.23	19.23
3MHz	1 RB low	1753.5	QPSK	24.89	20.89
3MHz	1 RB mid	1753.5	QPSK	25.05	21.05
3MHz	1 RB high	1753.5	QPSK	25.12	21.12
3MHz	50%,low	1753.5	QPSK	24.89	20.89
3MHz	50% RB mid	1753.5	QPSK	23.80	19.80
3MHz	50%,high	1753.5	QPSK	24.87	20.87
3MHz	100% RB	1753.5	QPSK	23.80	19.80
3MHz	1 RB low	1753.5	16QAM	23.95	19.95
3MHz	1 RB mid	1753.5	16QAM	24.19	20.19
3MHz	1 RB high	1753.5	16QAM	24.10	20.10
3MHz	50%,low	1753.5	16QAM	25.12	21.12
3MHz	50% RB mid	1753.5	16QAM	22.83	18.83
3MHz	50%,high	1753.5	16QAM	24.83	20.83
3MHz	100% RB	1753.5	16QAM	22.53	18.53
5MHz	1 RB low	1712.5	QPSK	24.99	20.99
5MHz	1 RB mid	1712.5	QPSK	24.99	20.99
5MHz	1 RB high	1712.5	QPSK	24.99	20.99
5MHz	50%,low	1712.5	QPSK	23.78	19.78
5MHz	50% RB mid	1712.5	QPSK	23.83	19.83
5MHz	50%,high	1712.5	QPSK	23.81	19.81
5MHz	100% RB	1712.5	QPSK	23.82	19.82
5MHz	1 RB low	1712.5	16QAM	23.85	19.85
5MHz	1 RB mid	1712.5	16QAM	23.50	19.50
5MHz	1 RB high	1712.5	16QAM	23.54	19.54
5MHz	50%,low	1712.5	16QAM	22.88	18.88
5MHz	50% RB mid	1712.5	16QAM	22.73	18.73
5MHz	50%,high	1712.5	16QAM	22.52	18.52
5MHz	100% RB	1712.5	16QAM	22.68	18.68
5MHz	1 RB low	1732.5	QPSK	25.06	21.06
5MHz	1 RB mid	1732.5	QPSK	24.97	20.97
5MHz	1 RB high	1732.5	QPSK	24.90	20.90
5MHz	50%,low	1732.5	QPSK	23.87	19.87
5MHz	50% RB mid	1732.5	QPSK	23.89	19.89
5MHz	50%,high	1732.5	QPSK	24.00	20.00
5MHz	100% RB	1732.5	QPSK	23.91	19.91
5MHz	1 RB low	1732.5	16QAM	24.13	20.13

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5MHz	1 RB mid	1732.5	16QAM	24.18	20.18
5MHz	1 RB high	1732.5	16QAM	24.04	20.04
5MHz	50%,low	1732.5	16QAM	22.95	18.95
5MHz	50% RB mid	1732.5	16QAM	22.86	18.86
5MHz	50%,high	1732.5	16QAM	22.87	18.87
5MHz	100% RB	1732.5	16QAM	22.89	18.89
5MHz	1 RB low	1752.5	QPSK	24.84	20.84
5MHz	1 RB mid	1752.5	QPSK	25.04	21.04
5MHz	1 RB high	1752.5	QPSK	25.00	21.00
5MHz	50%,low	1752.5	QPSK	23.81	19.81
5MHz	50% RB mid	1752.5	QPSK	23.90	19.90
5MHz	50%,high	1752.5	QPSK	24.02	20.02
5MHz	100% RB	1752.5	QPSK	23.86	19.86
5MHz	1 RB low	1752.5	16QAM	23.85	19.85
5MHz	1 RB mid	1752.5	16QAM	23.91	19.91
5MHz	1 RB high	1752.5	16QAM	24.09	20.09
5MHz	50%,low	1752.5	16QAM	22.82	18.82
5MHz	50% RB mid	1752.5	16QAM	22.61	18.61
5MHz	50%,high	1752.5	16QAM	22.93	18.93
5MHz	100% RB	1752.5	16QAM	22.82	18.82
10MHz	1 RB low	1715	QPSK	24.93	20.93
10MHz	1 RB mid	1715	QPSK	25.17	21.17
10MHz	1 RB high	1715	QPSK	24.76	20.76
10MHz	50%,low	1715	QPSK	23.95	19.95
10MHz	50% RB mid	1715	QPSK	23.87	19.87
10MHz	50%,high	1715	QPSK	23.89	19.89
10MHz	100% RB	1715	QPSK	23.82	19.82
10MHz	1 RB low	1732.5	QPSK	24.87	20.87
10MHz	1 RB mid	1732.5	QPSK	25.11	21.11
10MHz	1 RB high	1732.5	QPSK	24.92	20.92
10MHz	50%,low	1732.5	QPSK	23.96	19.96
10MHz	50% RB mid	1732.5	QPSK	23.97	19.97
10MHz	50%,high	1732.5	QPSK	23.99	19.99
10MHz	100% RB	1732.5	QPSK	23.97	19.97
10MHz	1 RB low	1750	QPSK	25.02	21.02
10MHz	1 RB mid	1750	QPSK	25.14	21.14
10MHz	1 RB high	1750	QPSK	25.19	21.19
10MHz	50%,low	1750	QPSK	23.97	19.97

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10MHz	50% RB mid	1750	QPSK	23.99	19.99
10MHz	50%,high	1750	QPSK	23.99	19.99
10MHz	100% RB	1750	QPSK	24.03	20.03
15MHz	1 RB low	1717.5	QPSK	24.87	20.87
15MHz	1 RB mid	1717.5	QPSK	24.86	20.86
15MHz	1 RB high	1717.5	QPSK	24.79	20.79
15MHz	50%,low	1717.5	QPSK	23.83	19.83
15MHz	50% RB mid	1717.5	QPSK	23.81	19.81
15MHz	50%,high	1717.5	QPSK	23.84	19.84
15MHz	100% RB	1717.5	QPSK	23.76	19.76
15MHz	1 RB low	1732.5	QPSK	24.88	20.88
15MHz	1 RB mid	1732.5	QPSK	24.98	20.98
15MHz	1 RB high	1732.5	QPSK	24.95	20.95
15MHz	50%,low	1732.5	QPSK	23.91	19.91
15MHz	50% RB mid	1732.5	QPSK	23.94	19.94
15MHz	50%,high	1732.5	QPSK	23.84	19.84
15MHz	100% RB	1732.5	QPSK	23.83	19.83
15MHz	1 RB low	1747.5	QPSK	25.10	21.10
15MHz	1 RB mid	1747.5	QPSK	24.80	20.80
15MHz	1 RB high	1747.5	QPSK	24.92	20.92
15MHz	50%,low	1747.5	QPSK	23.93	19.93
15MHz	50% RB mid	1747.5	QPSK	23.82	19.82
15MHz	50%,high	1747.5	QPSK	23.67	19.67
15MHz	100% RB	1747.5	QPSK	23.83	19.83
20MHz	1 RB low	1720	QPSK	24.69	20.69
20MHz	1 RB mid	1720	QPSK	25.03	21.03
20MHz	1 RB high	1720	QPSK	24.99	20.99
20MHz	50%,low	1720	QPSK	23.73	19.73
20MHz	50% RB mid	1720	QPSK	23.76	19.76
20MHz	50%,high	1720	QPSK	23.88	19.88
20MHz	100% RB	1720	QPSK	23.70	19.70
20MHz	1 RB low	1732.5	QPSK	24.64	20.64
20MHz	1 RB mid	1732.5	QPSK	25.23	21.23
20MHz	1 RB high	1732.5	QPSK	24.62	20.62
20MHz	50%,low	1732.5	QPSK	23.95	19.95
20MHz	50% RB mid	1732.5	QPSK	23.94	19.94
20MHz	50%,high	1732.5	QPSK	23.84	19.84
20MHz	100% RB	1732.5	QPSK	23.80	19.80

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20MHz	1 RB low	1745	QPSK	24.97	20.97
20MHz	1 RB mid	1745	QPSK	24.96	20.96
20MHz	1 RB high	1745	QPSK	24.75	20.75
20MHz	50%,low	1745	QPSK	24.01	20.01
20MHz	50% RB mid	1745	QPSK	23.88	19.88
20MHz	50%,high	1745	QPSK	23.82	19.82
20MHz	100% RB	1745	QPSK	23.89	19.89

LTE band 13
ERP Limits 34.8dBm(3w)
Max ERP:20.86dBm

Bandwidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	Radiated Power(dBm) G _T = -5.15dBd
5MHz	1 RB low	779.5	QPSK	25.65	20.50
5MHz	1 RB mid	779.5	QPSK	25.80	20.65
5MHz	1 RB high	779.5	QPSK	25.71	20.56
5MHz	50%,low	779.5	QPSK	24.68	19.53
5MHz	50% RB mid	779.5	QPSK	24.72	19.57
5MHz	50%,high	779.5	QPSK	24.95	19.80
5MHz	100% RB	779.5	QPSK	24.70	19.55
5MHz	1 RB low	779.5	16QAM	24.68	19.53
5MHz	1 RB mid	779.5	16QAM	24.83	19.68
5MHz	1 RB high	779.5	16QAM	24.59	19.44
5MHz	50%,low	779.5	16QAM	23.82	18.67
5MHz	50% RB mid	779.5	16QAM	23.88	18.73
5MHz	50%,high	779.5	16QAM	23.70	18.55
5MHz	100% RB	779.5	16QAM	23.65	18.50
5MHz	1 RB low	782	QPSK	25.66	20.51
5MHz	1 RB mid	782	QPSK	25.63	20.48
5MHz	1 RB high	782	QPSK	25.69	20.54
5MHz	50%,low	782	QPSK	24.75	19.60
5MHz	50% RB mid	782	QPSK	24.72	19.57
5MHz	50%,high	782	QPSK	24.70	19.55
5MHz	100% RB	782	QPSK	24.78	19.63
5MHz	1 RB low	782	16QAM	24.28	19.13
5MHz	1 RB mid	782	16QAM	24.15	19.00
5MHz	1 RB high	782	16QAM	24.11	18.96
5MHz	50%,low	782	16QAM	23.77	18.62
5MHz	50% RB mid	782	16QAM	23.48	18.33
5MHz	50%,high	782	16QAM	23.57	18.42
5MHz	100% RB	782	16QAM	23.90	18.75
5MHz	1 RB low	784.5	QPSK	25.63	20.48
5MHz	1 RB mid	784.5	QPSK	25.77	20.62
5MHz	1 RB high	784.5	QPSK	25.52	20.37
5MHz	50%,low	784.5	QPSK	24.69	19.54

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5MHz	50% RB mid	784.5	QPSK	24.72	19.57
5MHz	50%,high	784.5	QPSK	24.77	19.62
5MHz	100% RB	784.5	QPSK	24.67	19.52
5MHz	1 RB low	784.5	16QAM	24.67	19.52
5MHz	1 RB mid	784.5	16QAM	24.73	19.58
5MHz	1 RB high	784.5	16QAM	25.03	19.88
5MHz	50%,low	784.5	16QAM	23.48	18.33
5MHz	50% RB mid	784.5	16QAM	23.53	18.38
5MHz	50%,high	784.5	16QAM	23.49	18.34
5MHz	100% RB	784.5	16QAM	23.75	18.60
10MHz	1 RB low	782	QPSK	25.50	20.35
10MHz	1 RB mid	782	QPSK	26.01	20.86
10MHz	1 RB high	782	QPSK	25.62	20.47
10MHz	50%,low	782	QPSK	24.65	19.50
10MHz	50% RB mid	782	QPSK	24.73	19.58
10MHz	50%,high	782	QPSK	24.68	19.53
10MHz	100% RB	782	QPSK	24.72	19.57

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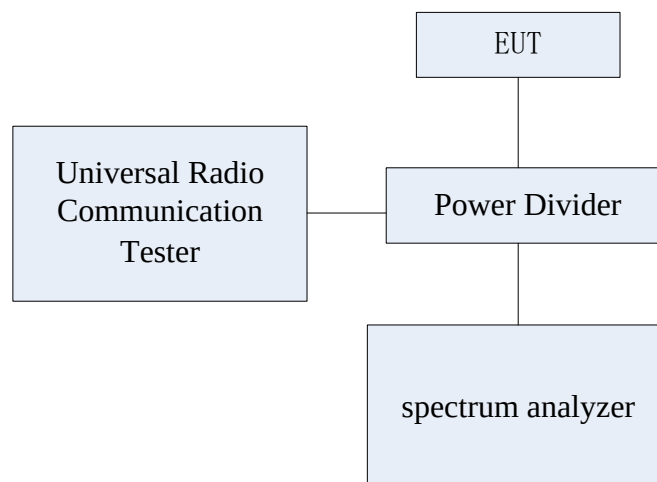
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6.4. Occupied Bandwidth

Specifications:	FCC Part 2.1049
DUT Serial Number:	IMEI:866484030180649
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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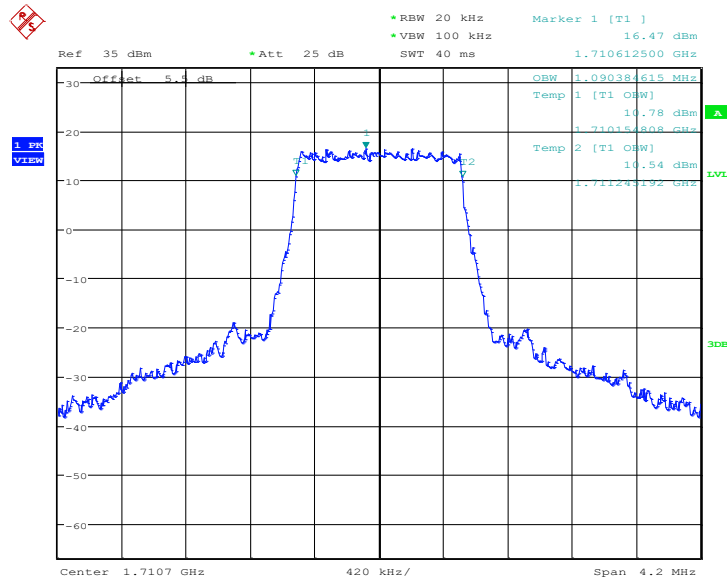
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6.4.1 occupied bandwidth Results

LTE band 4,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1710.7	1.090	1.090
1732.5	1.090	1.090
1754.3	1.097	1.090

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

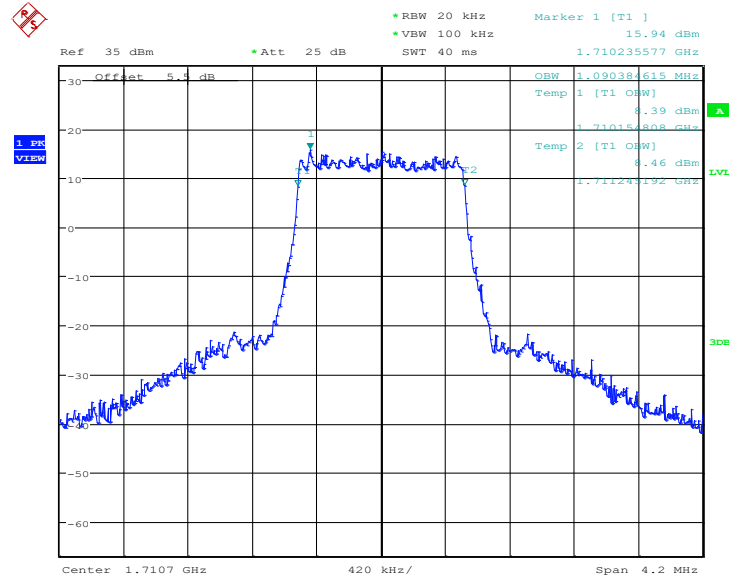


Date: 5.MAR.2024 08:00:53

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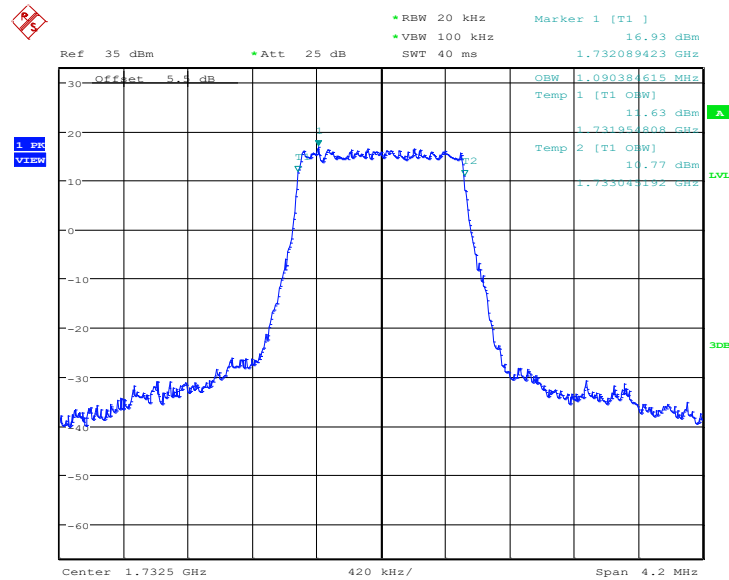
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LTE band 4 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)



Date: 5.MAR.2024 08:01:18

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

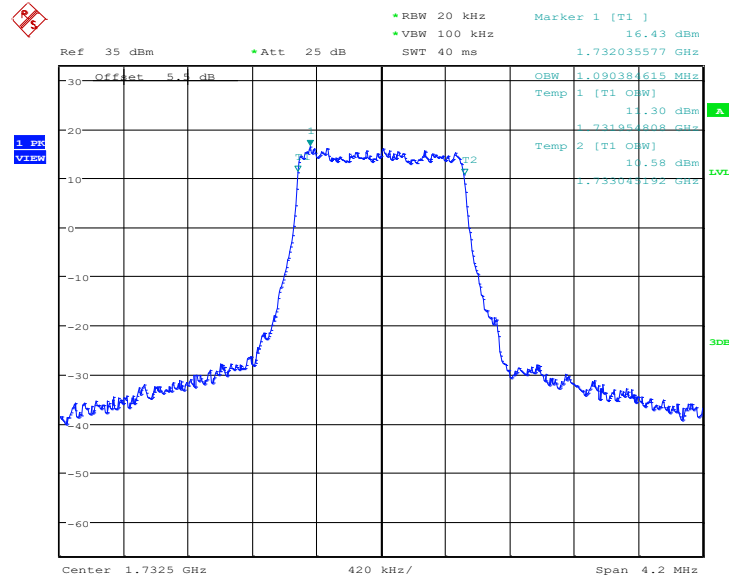


Date: 5.MAR.2024 08:01:49

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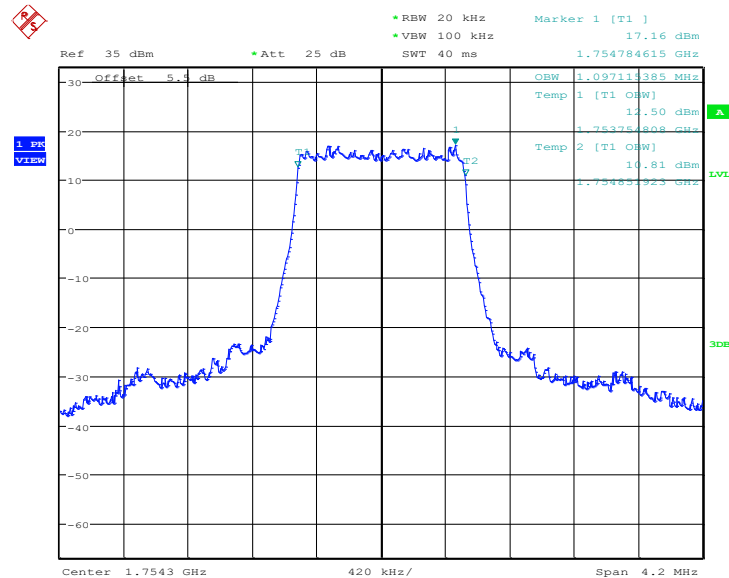
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LTE band 4 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



Date: 5.MAR.2024 08:02:11

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

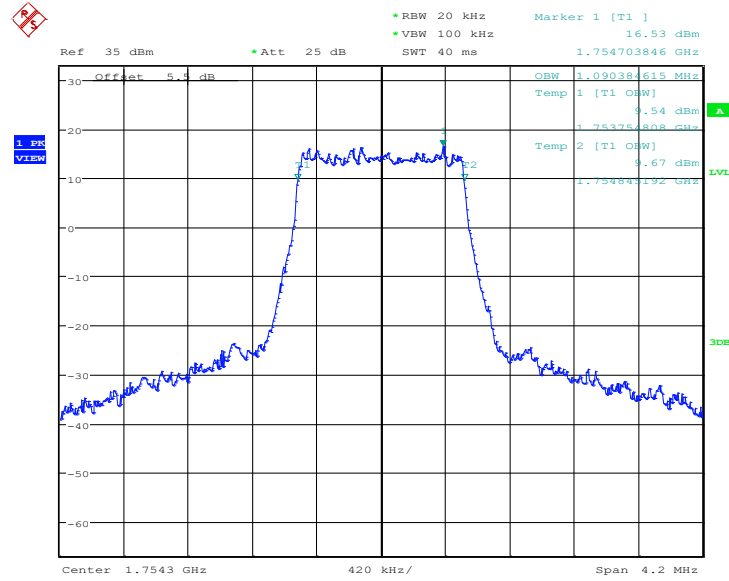


Date: 5.MAR.2024 08:02:37

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



Date: 5.MAR.2024 08:03:01

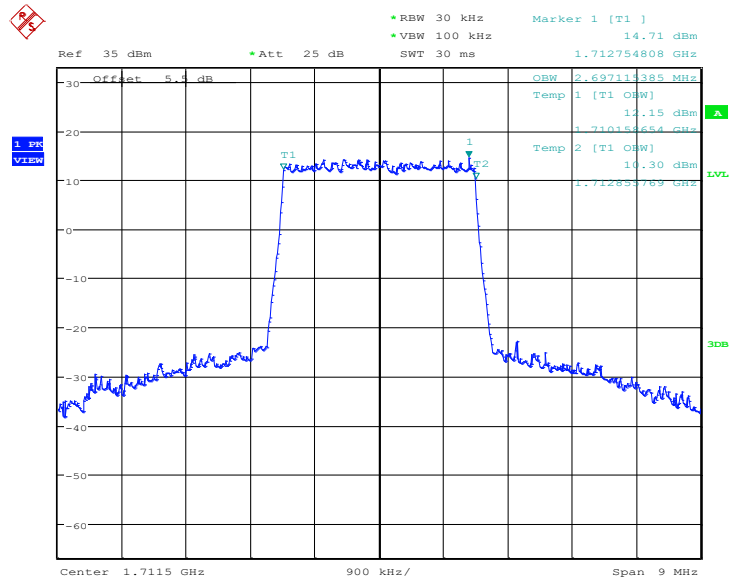
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LTE band 4,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1711.5	2.697	2.683
1732.5	2.697	2.697
1753.5	2.697	2.683

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

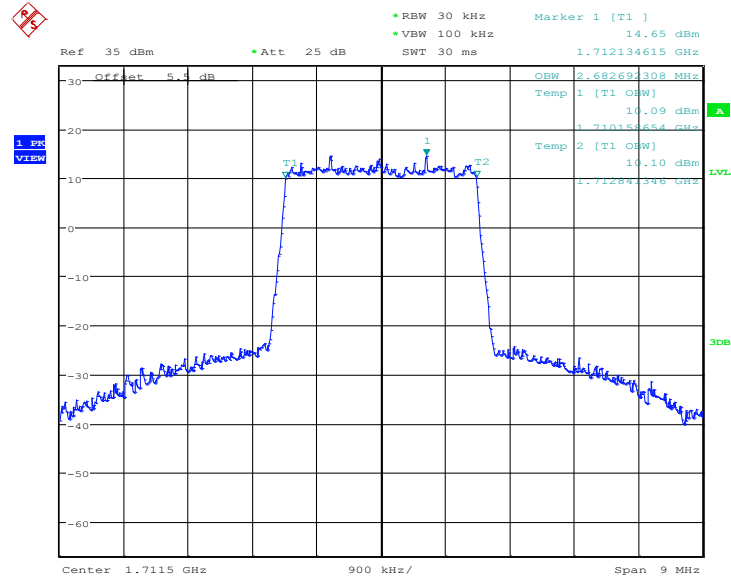


Date: 5.MAR.2024 08:04:12

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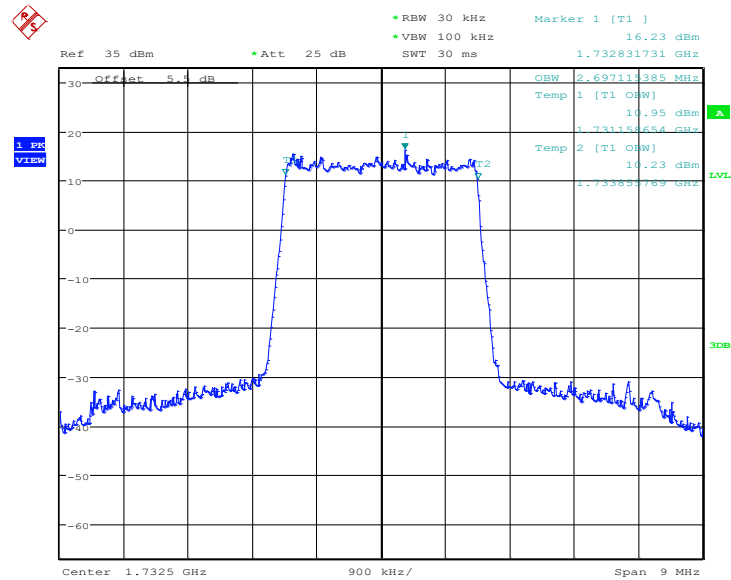
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LTE band 4 , 3MHz Bandwidth,LOW,16QAM (99% BW)



Date: 5.MAR.2024 08:04:40

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

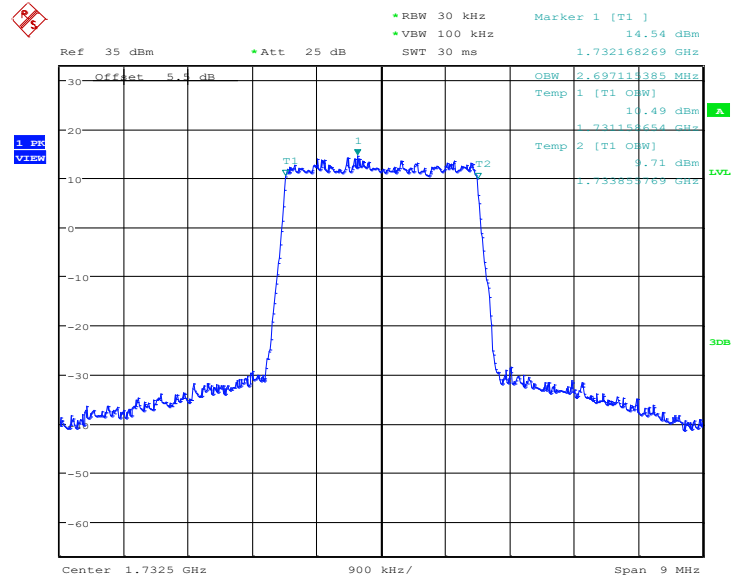


Date: 5.MAR.2024 08:05:06

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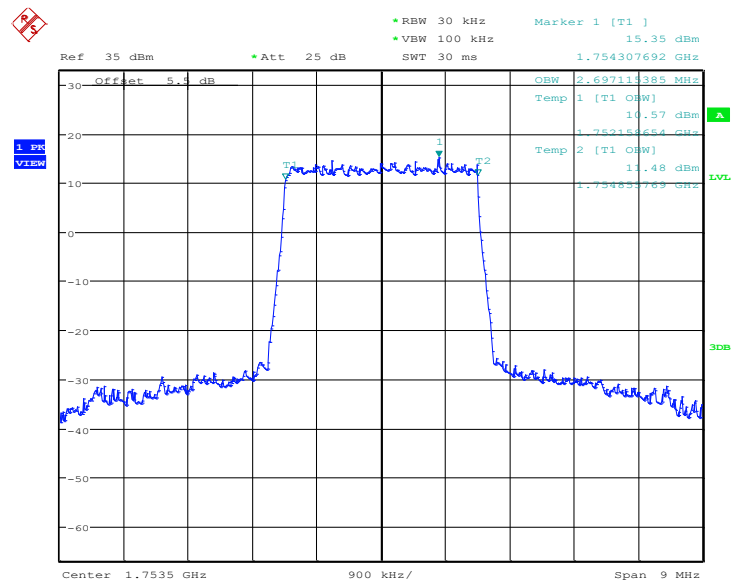
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LTE band 4 , 3MHz Bandwidth,MID,16QAM (99% BW)



Date: 5.MAR.2024 08:05:27

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

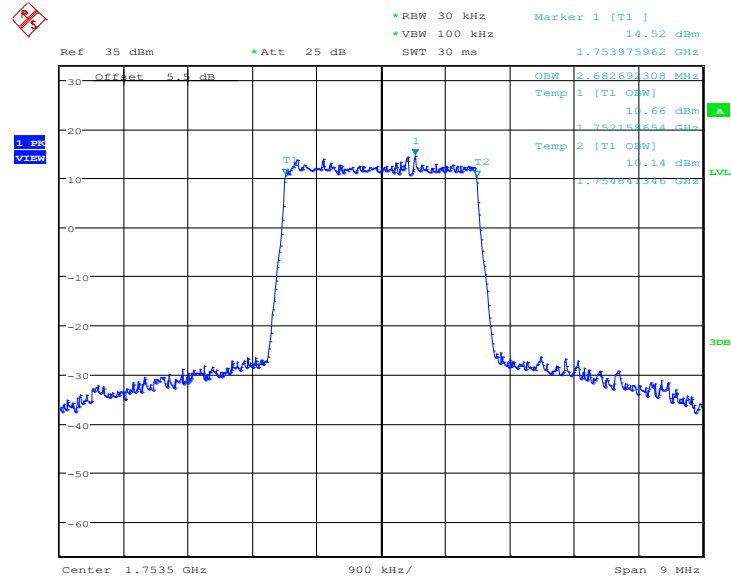


Date: 5.MAR.2024 08:05:56

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



Date: 5.MAR.2024 08:06:18

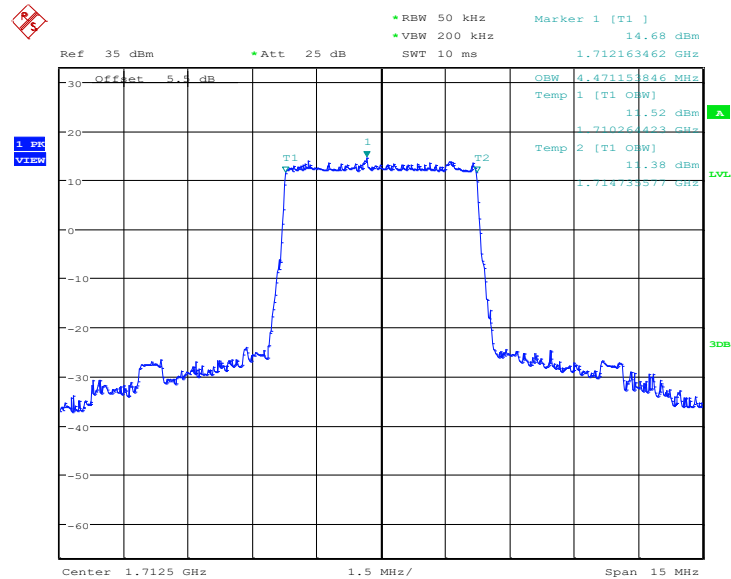
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LTE band 4,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1712.5	4.471	4.495
1732.5	4.495	4.471
1752.5	4.495	4.495

LTE band 4 , 5MHz Bandwidth,LOW,QPSK (99% BW)

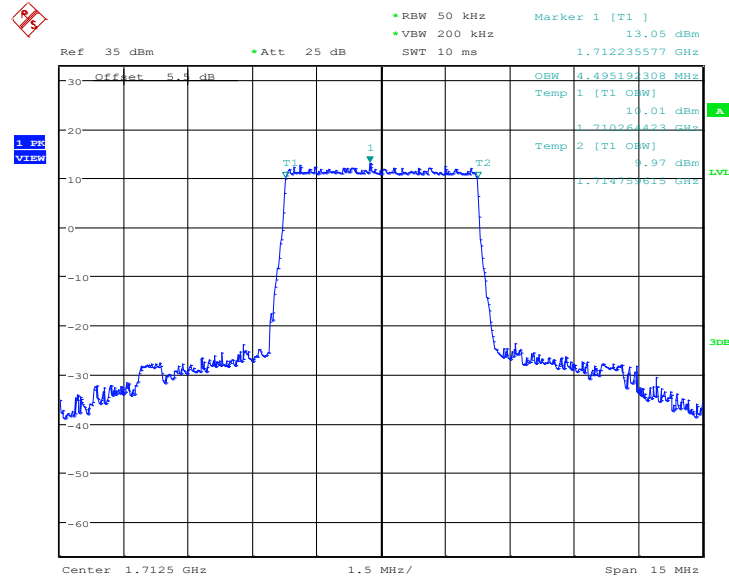


Date: 5.MAR.2024 08:07:29

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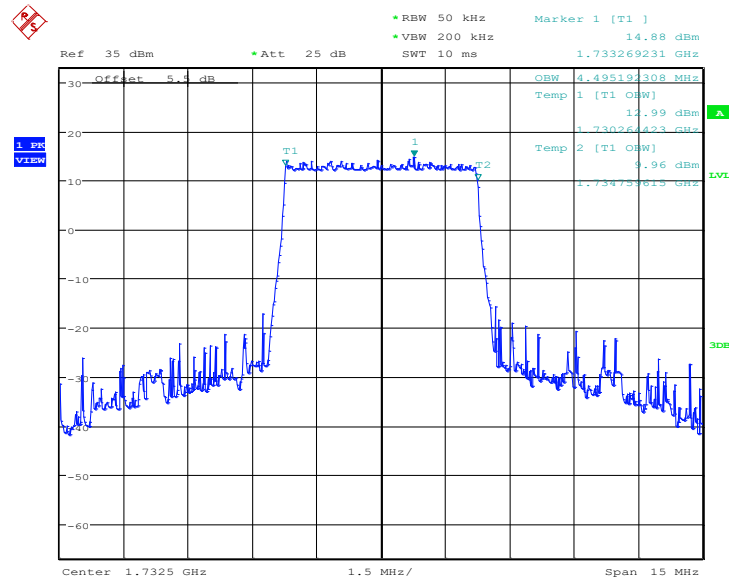
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LTE band 4 , 5MHz Bandwidth,LOW,16QAM (99% BW)



Date: 5.MAR.2024 08:07:50

LTE band 4 , 5MHz Bandwidth,MID,QPSK (99% BW)

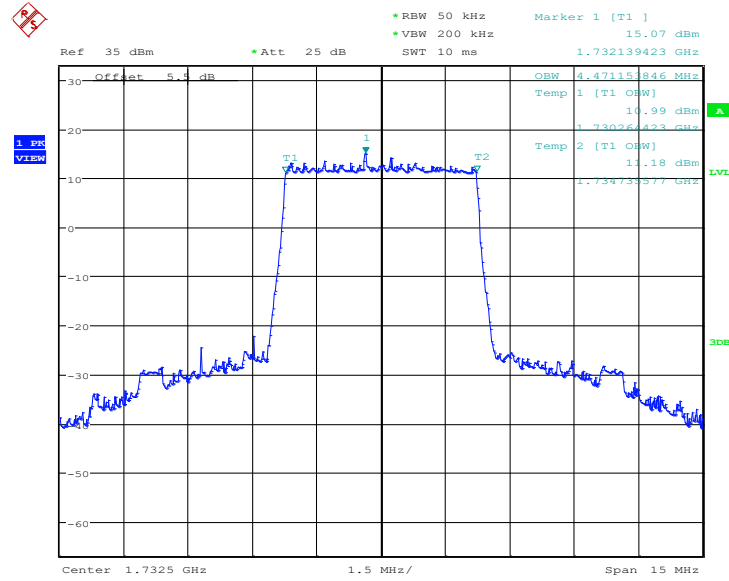


Date: 5.MAR.2024 08:08:16

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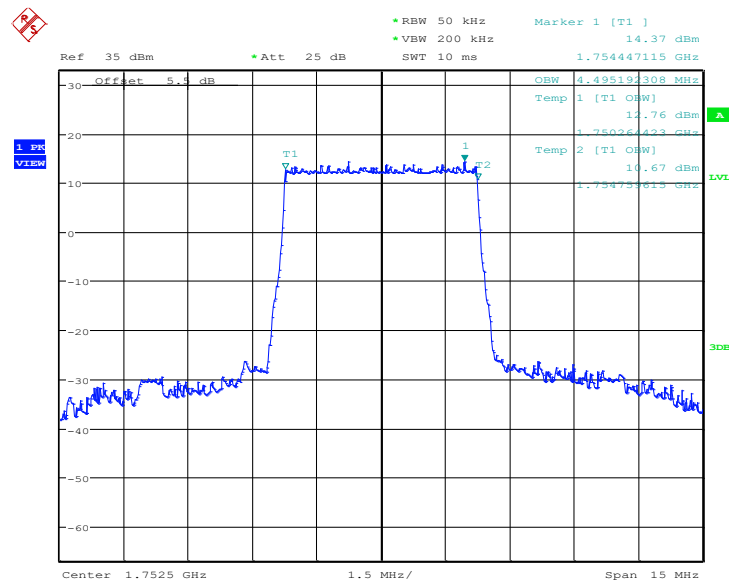
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LTE band 4 , 5MHz Bandwidth,MID,16QAM (99% BW)



Date: 5.MAR.2024 08:08:42

LTE band 4 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

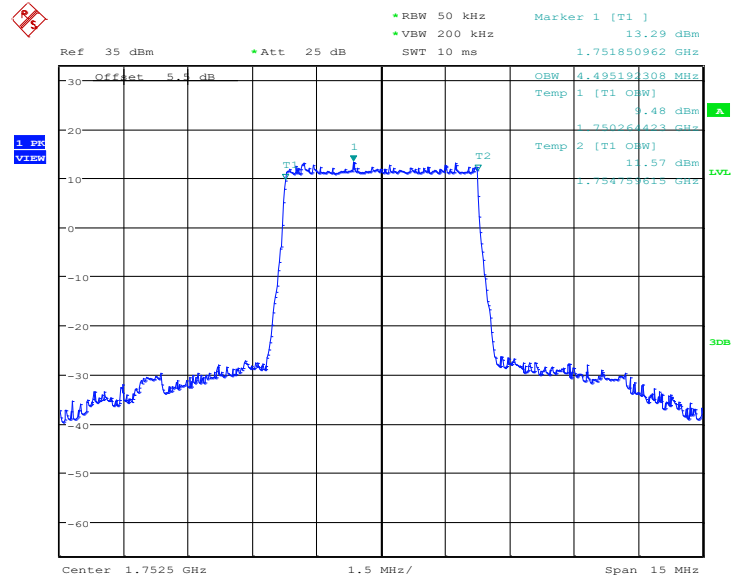


Date: 5.MAR.2024 08:09:10

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



Date: 5.MAR.2024 08:09:34

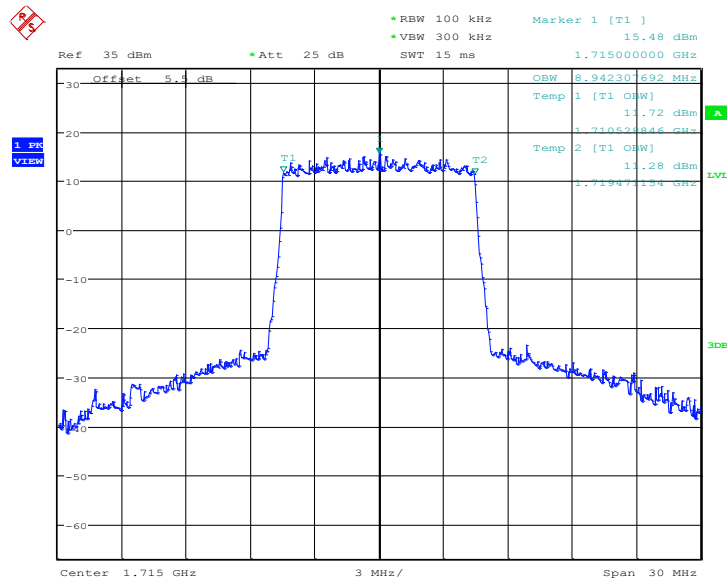
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LTE band 4,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
1715	8.942
1732.5	8.942
1750	8.942

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

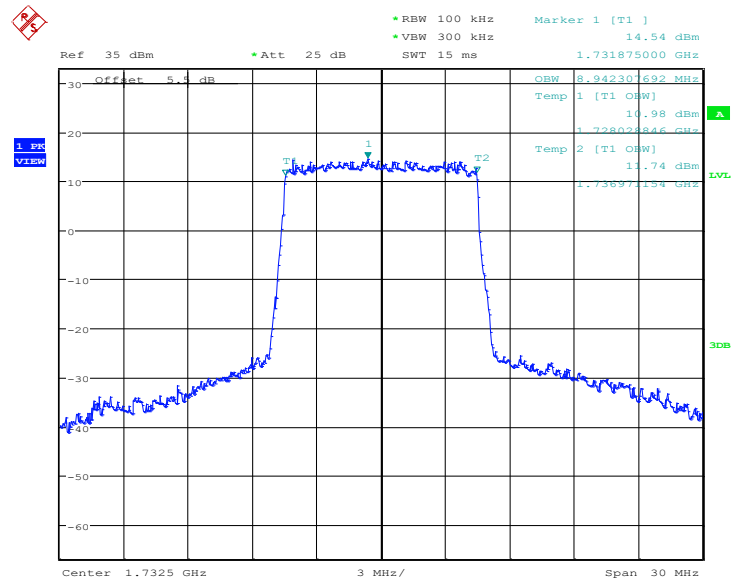


Date: 5.MAR.2024 08:10:43

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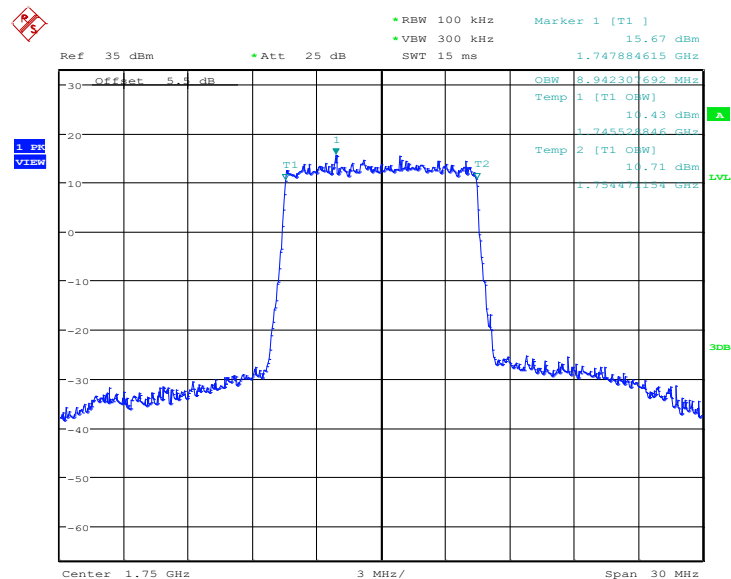
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LTE band 4 , 10MHz Bandwidth,MID,QPSK (99% BW)



Date: 5.MAR.2024 08:11:12

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



Date: 5.MAR.2024 08:11:43

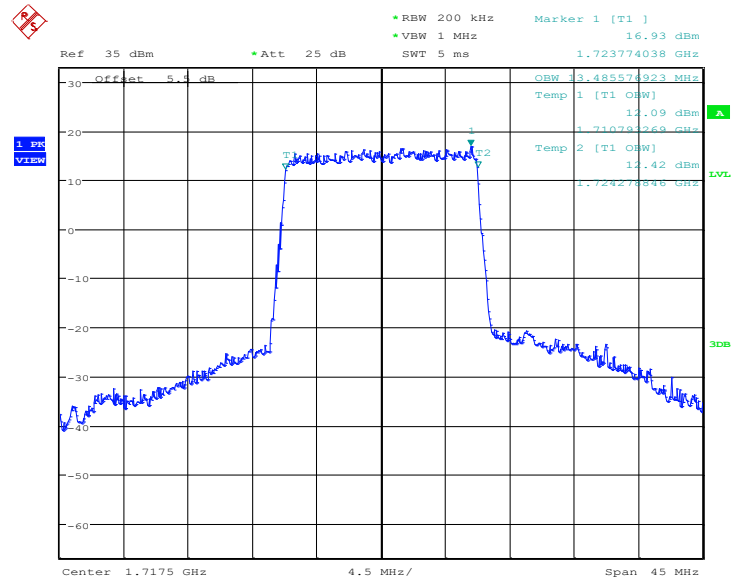
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LTE band 4,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
1717.5	13.486
1732.5	13.413
1747.5	13.413

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

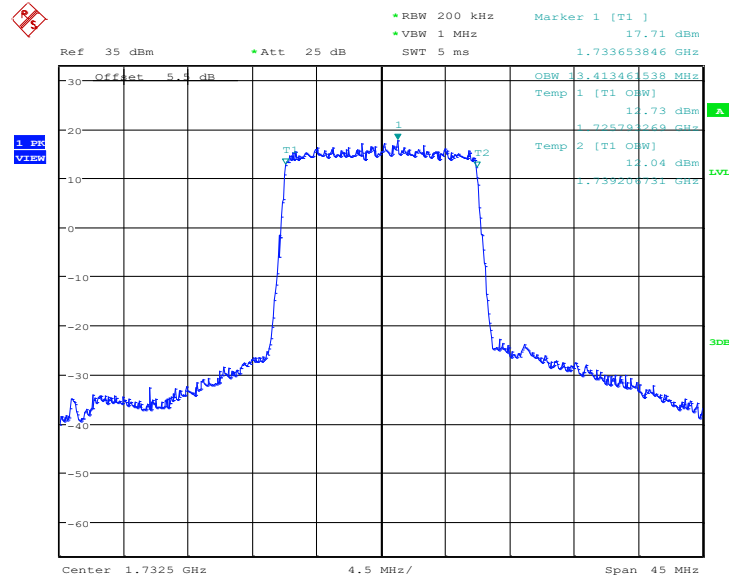


Date: 5.MAR.2024 08:12:52

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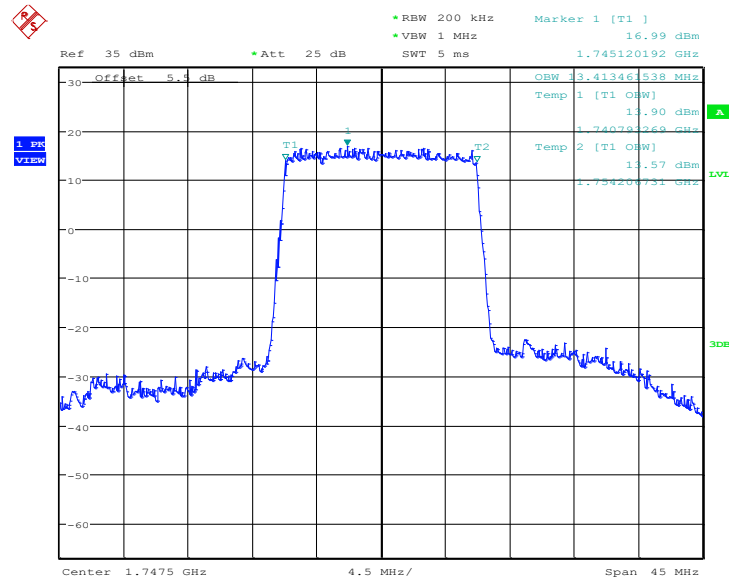
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LTE band 4 , 15MHz Bandwidth,MID,QPSK (99% BW)



Date: 5.MAR.2024 08:13:56

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



Date: 5.MAR.2024 08:14:25

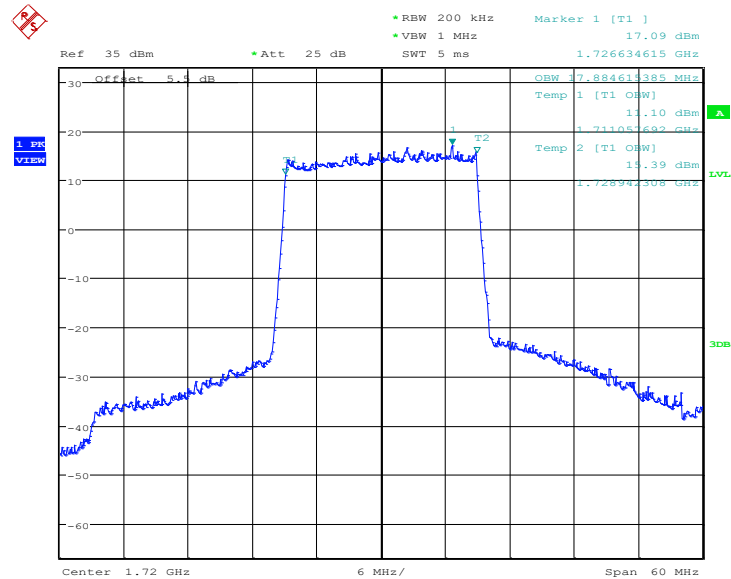
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LTE band 4,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
1720	17.885
1732.5	17.885
1745	17.885

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

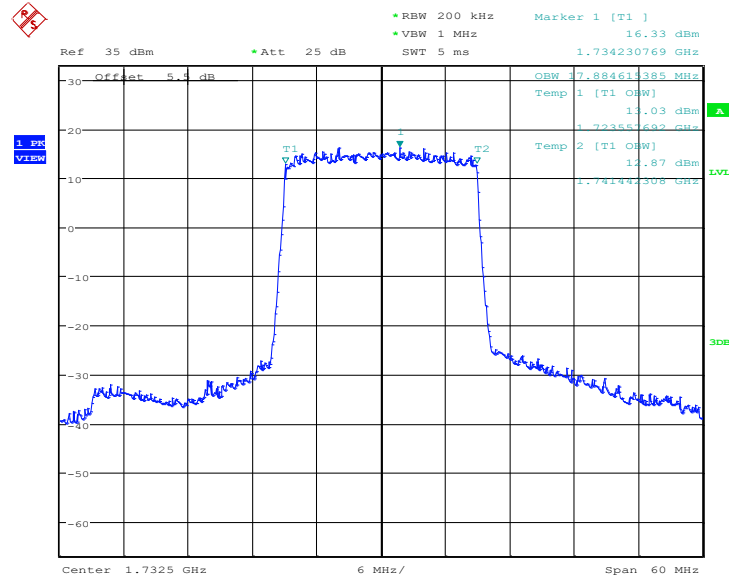


Date: 5.MAR.2024 08:15:29

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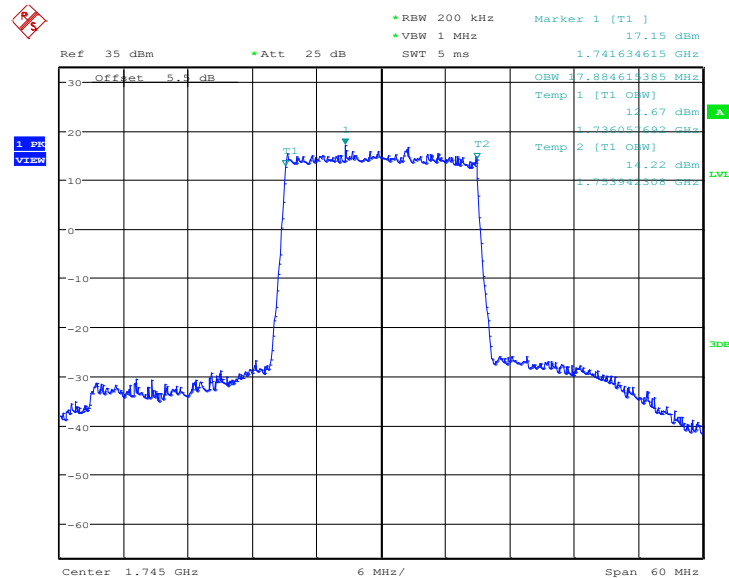
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LTE band 4 , 20MHz Bandwidth,MID,QPSK (99% BW)



Date: 5.MAR.2024 08:16:18

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



Date: 5.MAR.2024 08:17:24

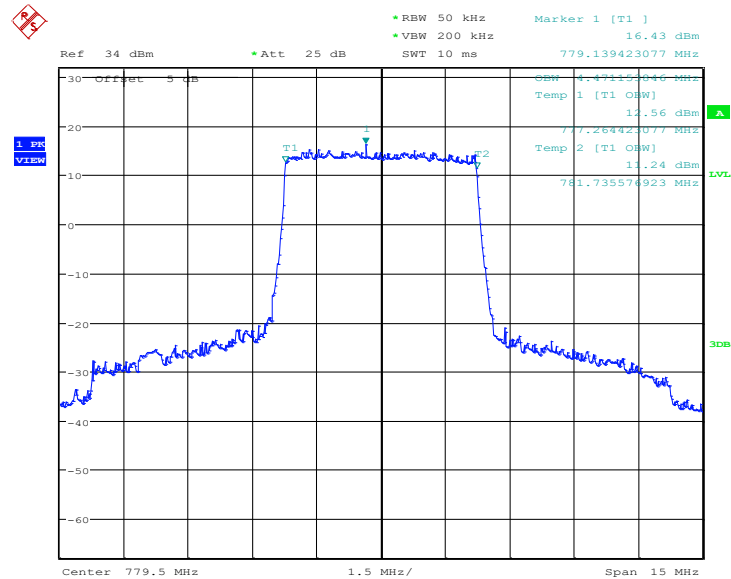
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LTE band 13,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
779.5	4.471	4.471
782	4.519	4.471
784.5	4.495	4.495

LTE band 13 , 5MHz Bandwidth,LOW,QPSK (99% BW)

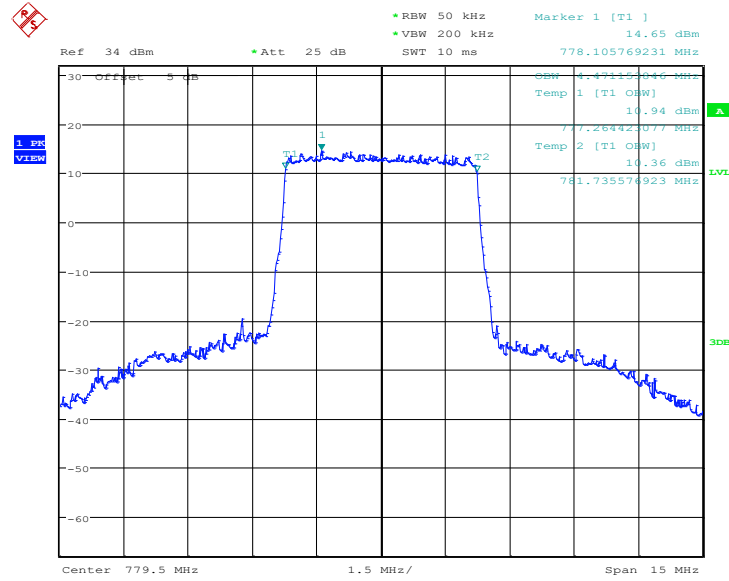


Date: 5.MAR.2024 08:18:22

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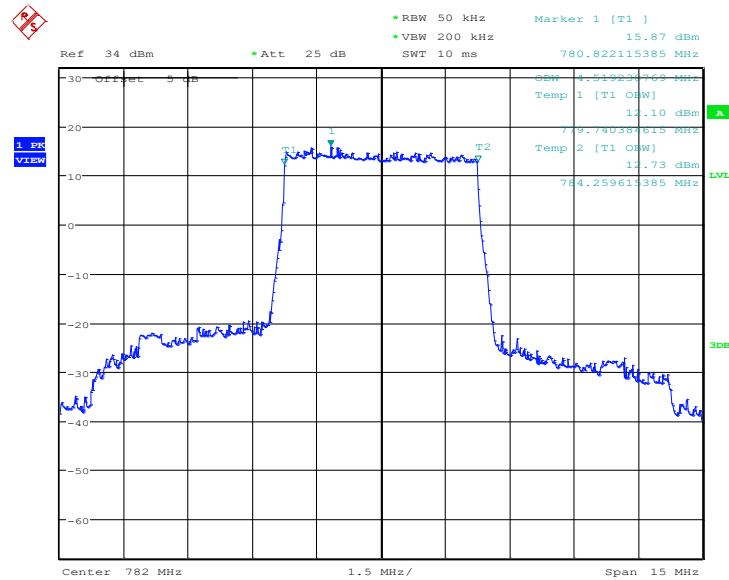
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LTE band 13 , 5MHz Bandwidth,LOW,16QAM (99% BW)



Date: 5.MAR.2024 08:18:47

LTE band 13 , 5MHz Bandwidth,MID,QPSK (99% BW)

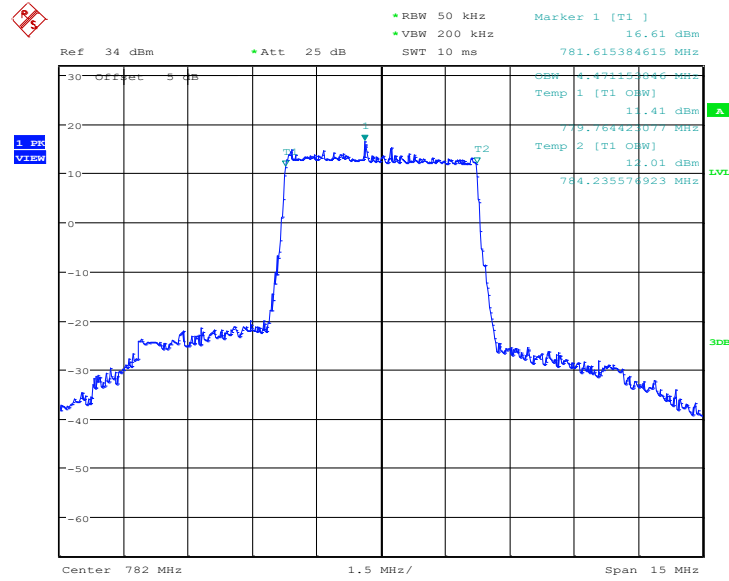


Date: 5.MAR.2024 08:19:13

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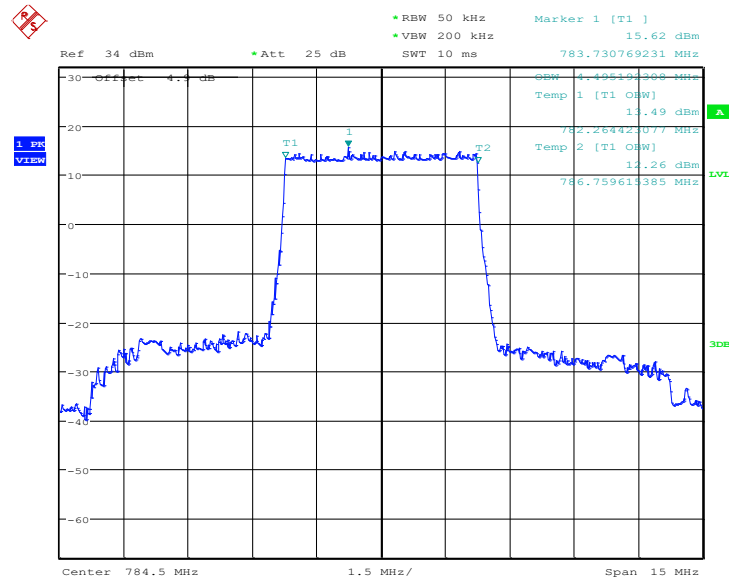
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LTE band 13 , 5MHz Bandwidth,MID,16QAM (99% BW)



Date: 5.MAR.2024 08:19:36

LTE band 13 , 5MHz Bandwidth,HIGH,QPSK (99% BW)

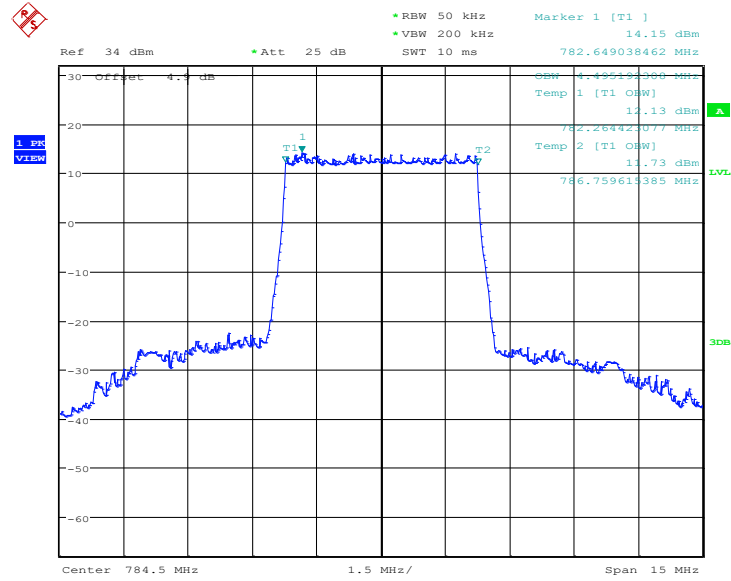


Date: 5.MAR.2024 08:20:04

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LTE band 13 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



Date: 5.MAR.2024 08:20:28

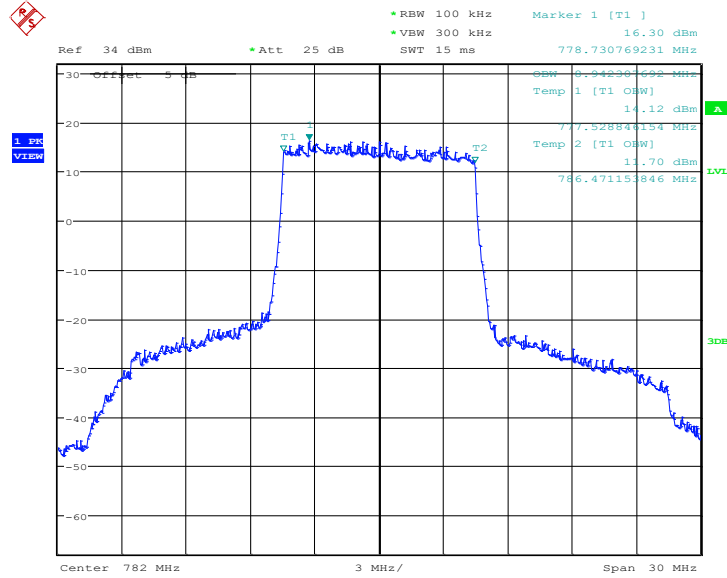
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LTE band 13,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)
	QPSK
782	8.942

LTE band 13 , 10MHz Bandwidth,LOW,QPSK (99% BW)



Date: 5.MAR.2024 08:21:35

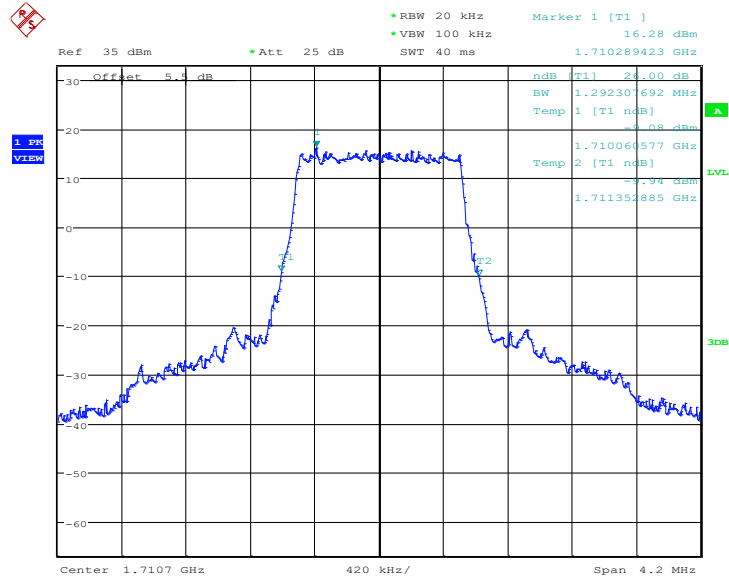
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LTE band 4,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1710.7	1.292	1.272
1732.5	1.272	1.272
1754.3	1.272	1.286

LTE band 4 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc BW)

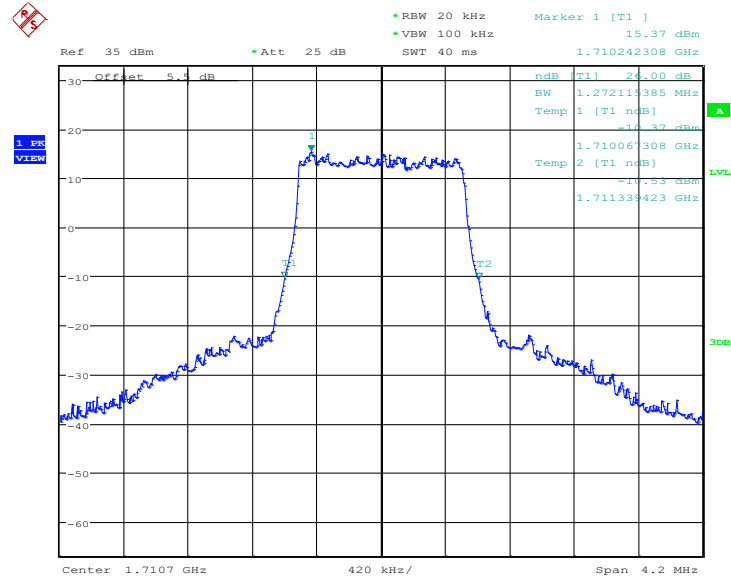


Date: 5.MAR.2024 08:23:26

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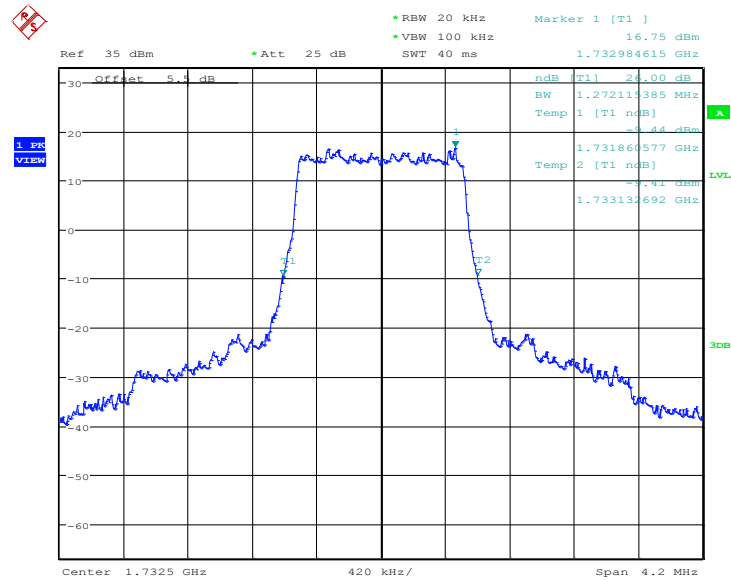
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LTE band 4 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc BW)



Date: 5.MAR.2024 09:49:44

LTE band 4 , 1.4MHz Bandwidth,MID,QPSK (-26dBc BW)

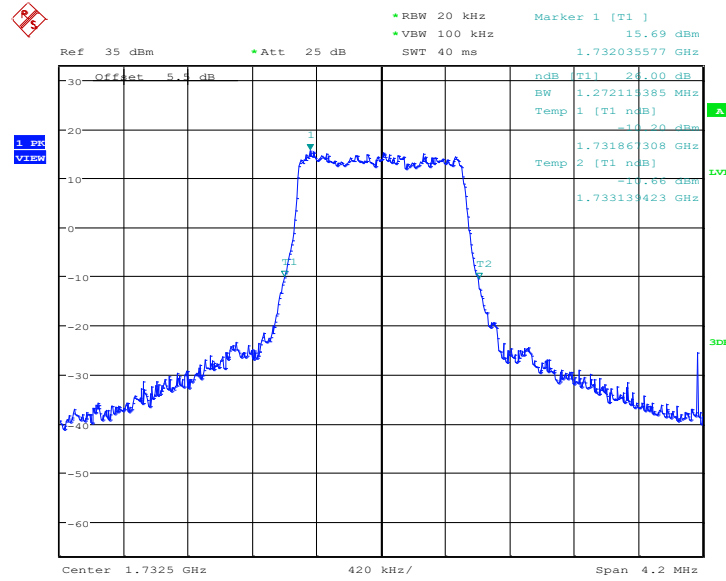


Date: 5.MAR.2024 09:50:10

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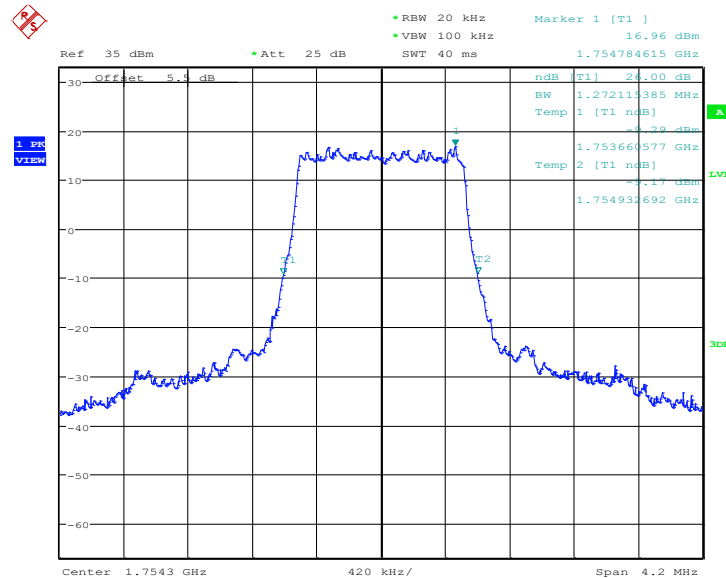
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

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



Date: 5.MAR.2024 08:24:41

LTE band 4 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc BW)

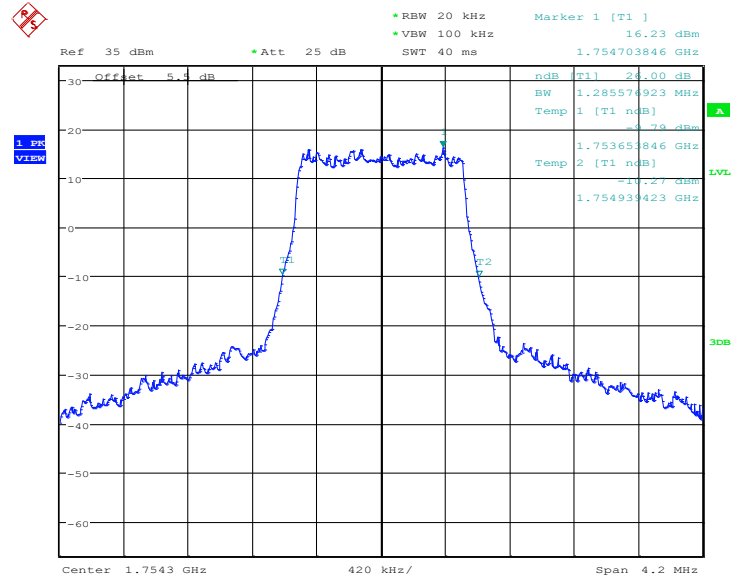


Date: 5.MAR.2024 08:25:09

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



Date: 5.MAR.2024 08:25:31

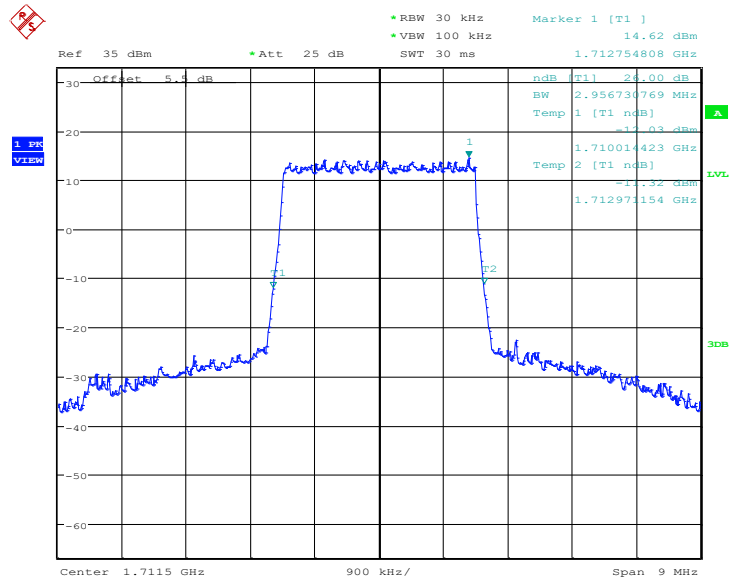
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LTE band 4,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1711.5	2.957	2.942
1732.5	2.957	2.971
1753.5	2.957	2.971

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

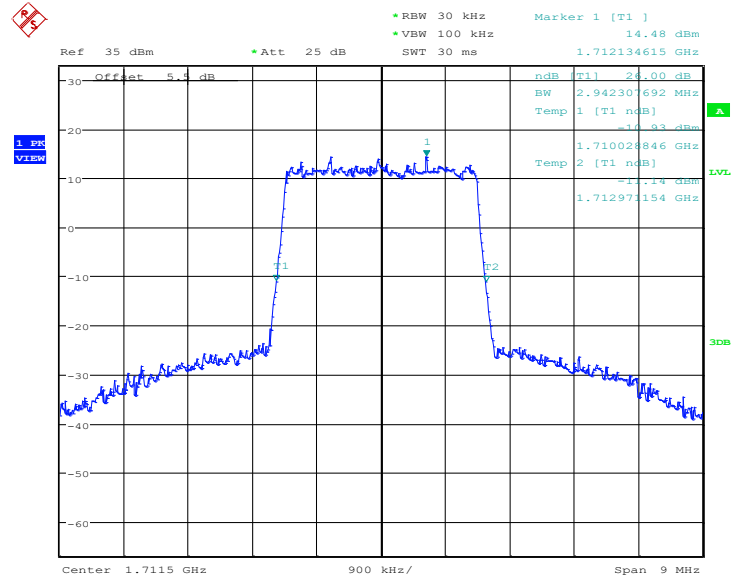


Date: 5.MAR.2024 08:26:40

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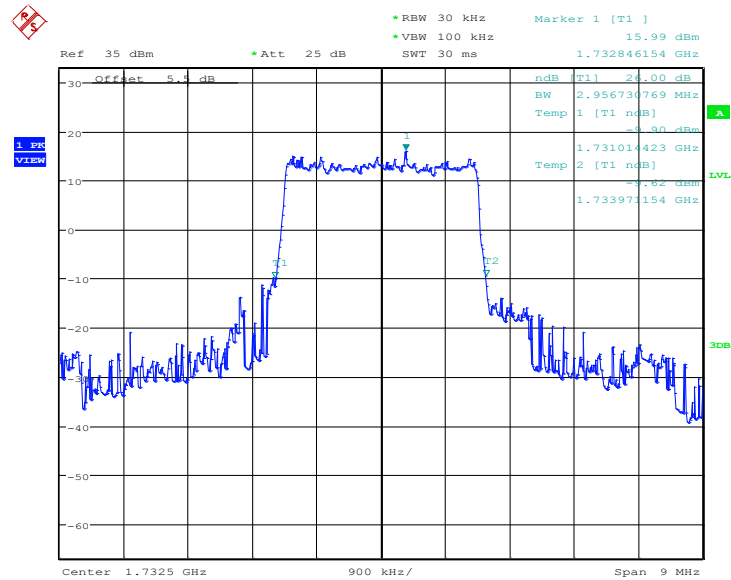
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

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



Date: 5.MAR.2024 08:27:01

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

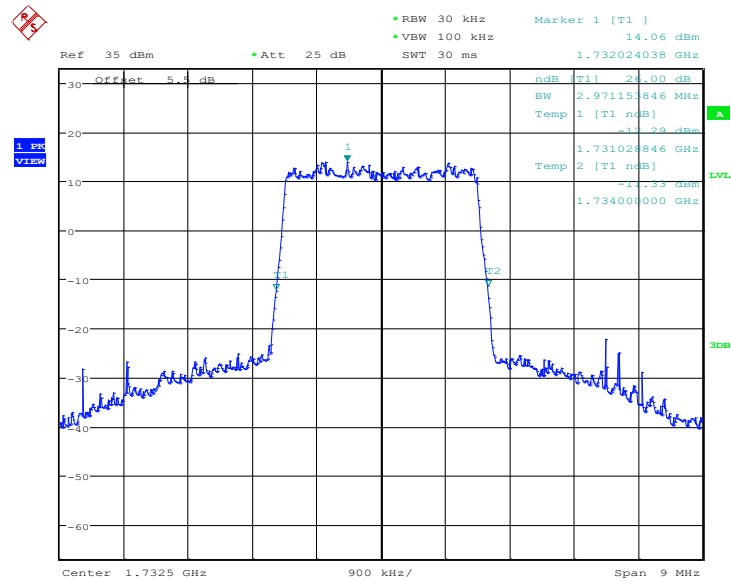


Date: 5.MAR.2024 08:27:27

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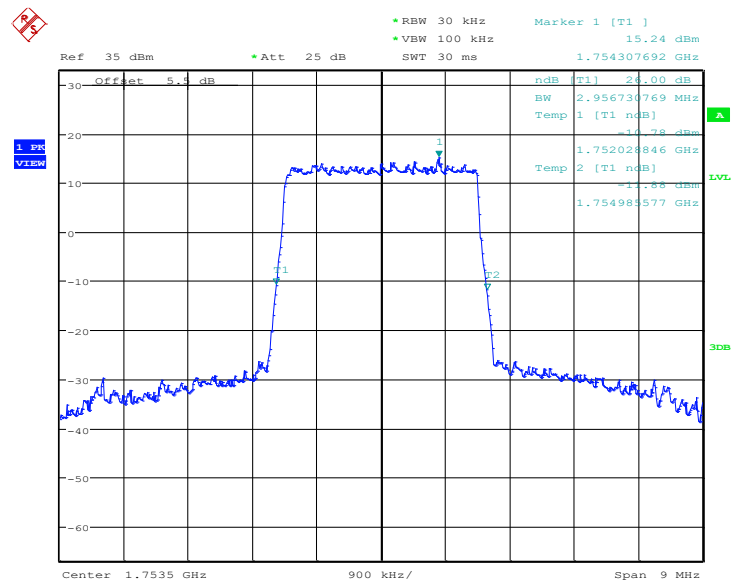
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

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



Date: 5.MAR.2024 08:27:49

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



Date: 5.MAR.2024 08:28:16

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

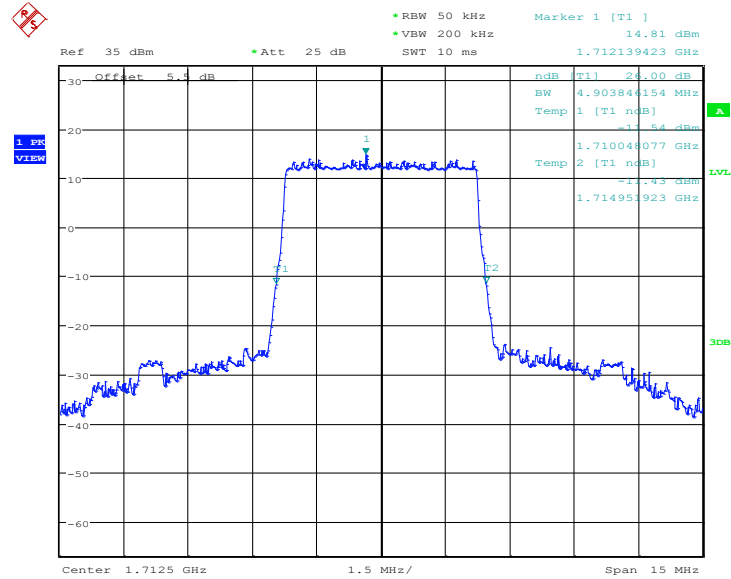


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LTE band 4,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1712.5	4.904	5.000
1732.5	4.952	4.904
1752.5	4.928	4.928

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

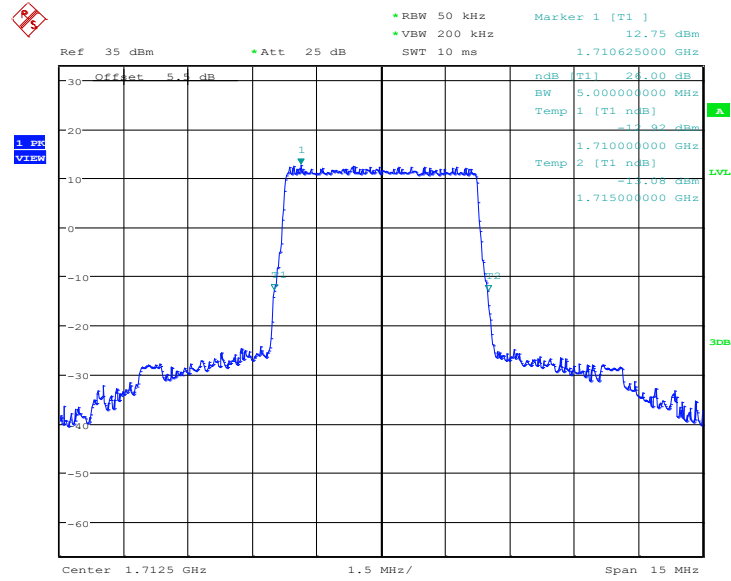


Date: 5.MAR.2024 08:29:48

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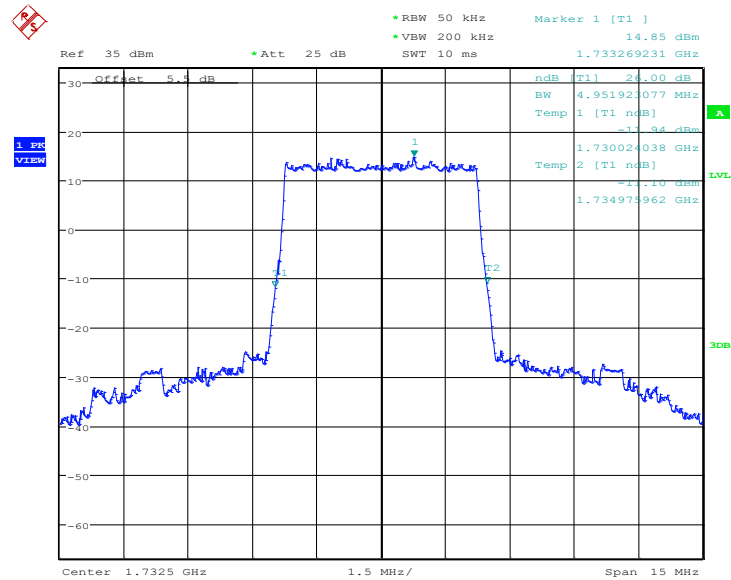
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LTE band 4 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)



Date: 5.MAR.2024 08:30:18

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

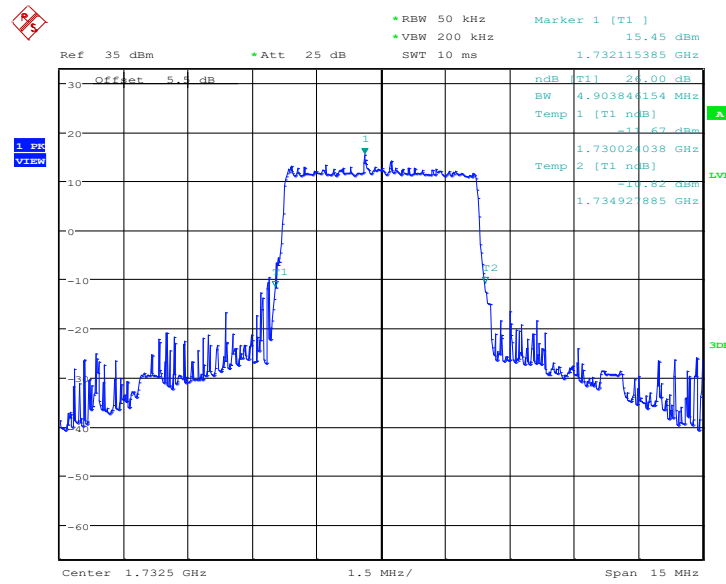


Date: 5.MAR.2024 08:30:44

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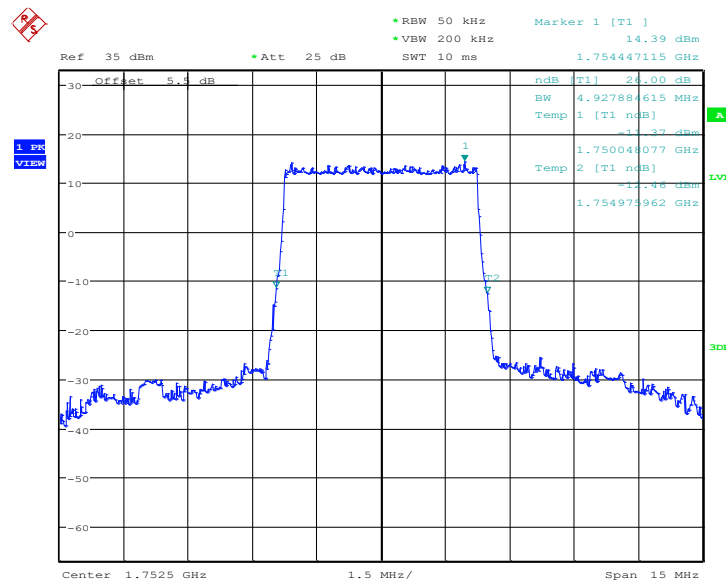
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Tel: 0086-23-88069965 FAX:0086-23-88608777

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



Date: 5.MAR.2024 08:31:10

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

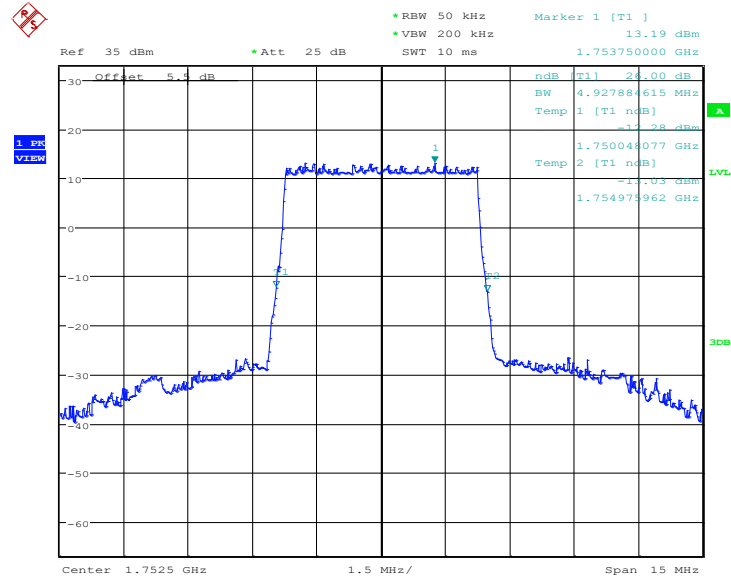


Date: 5.MAR.2024 08:31:37

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



Date: 5.MAR.2024 08:32:02

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LTE band 4,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
1715	9.760
1732.5	9.712
1750	9.712

Ref 35 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 15 ms Marker 1 [T1] 15.60 dBm 1.715000000 GHz

Offset 5.4 dB

dB [T1] 24.00 dB

BW 9.75961385 MHz

Temp 1 [T1 dB] 16.04 dBm

Temp 2 [T1 dB] 1.71014231 GHz

10.00 dBm

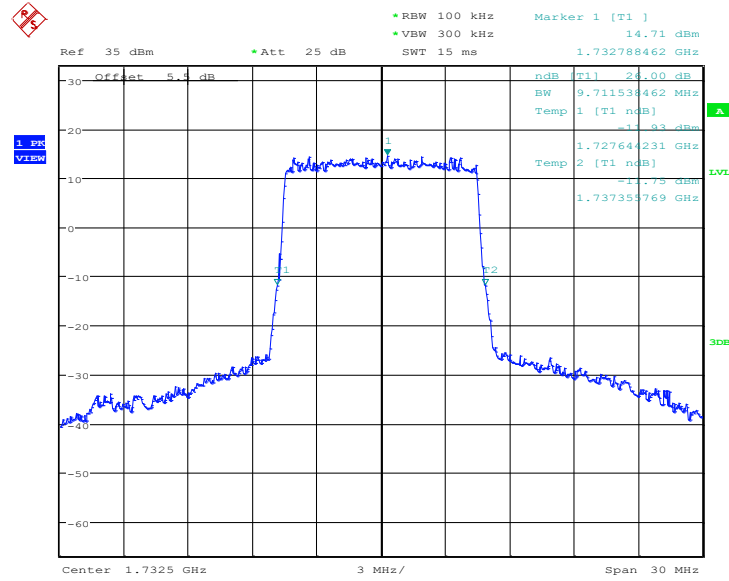
1.719903846 GHz

Center 1.715 GHz 3 MHz/ Span 30 MHz

Date: 5.MAR.2024 08:33:11

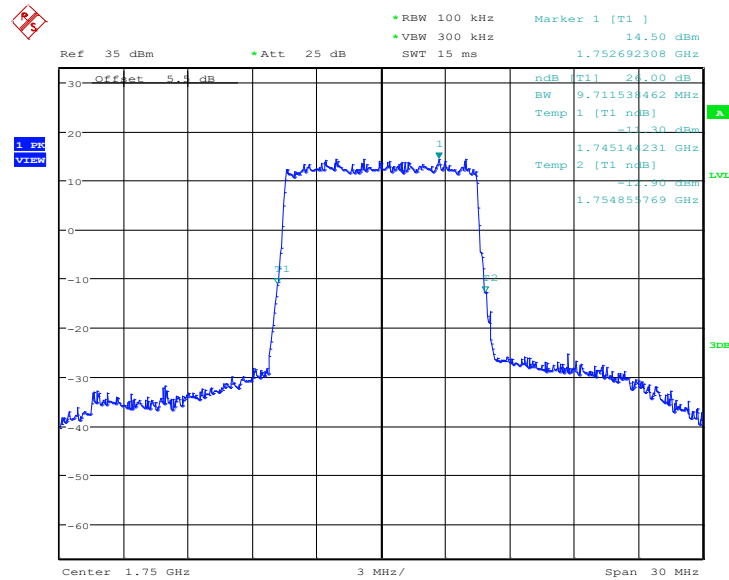
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LTE band 4 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 5.MAR.2024 08:33:37

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



Date: 5.MAR.2024 09:50:50

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LTE band 4,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
1717.5	14.639
1732.5	14.567
1747.5	14.639

1 dB VIEW

Ref 35 dBm Att 25 dB BW 200 kHz VBW 1 MHz SWT 5 ms Marker 1 [T1] 16.65 dBm

Offset 5.4 dB

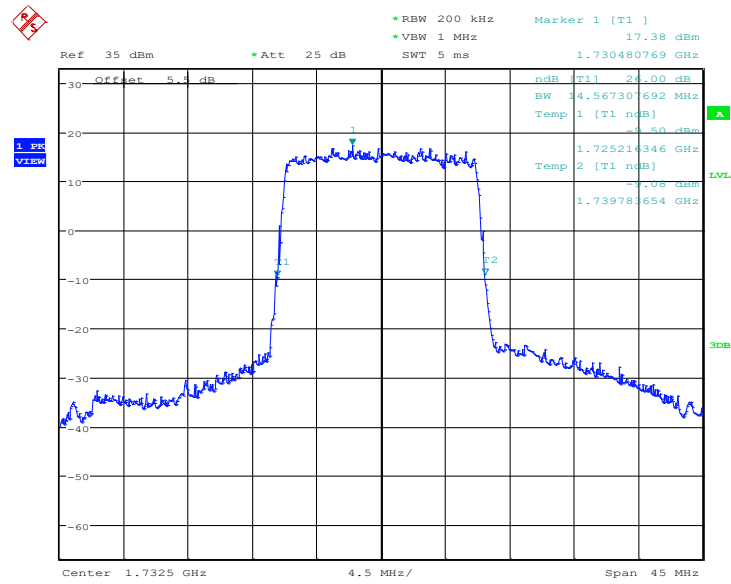
dB [T1] 24.00 dB
BW 14.63942077 MHz
Temp 1 [T1 dB] -7.28 dBm
Temp 2 [T1 dB] -7.28 dBm
1.710214346 GHz
1.724857769 GHz

Center 1.7175 GHz 4.5 MHz/ Span 45 MHz

Date: 5.MAR.2024 09:51:57

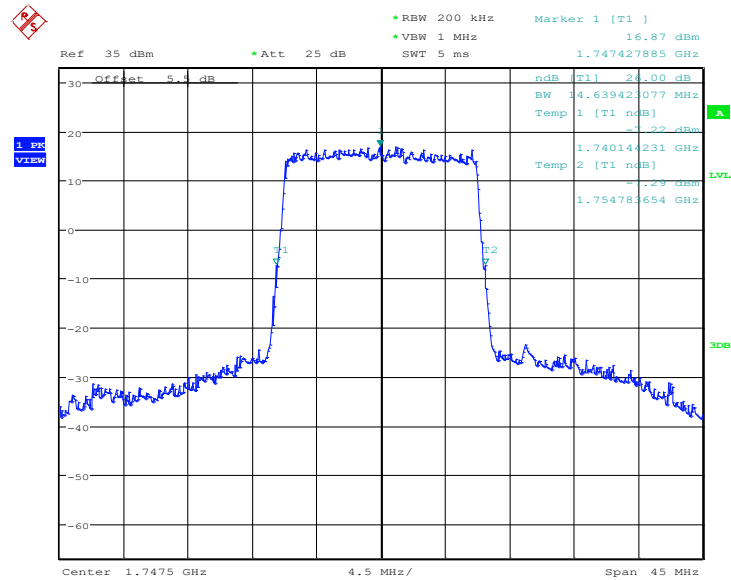
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LTE band 4 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 5.MAR.2024 09:52:23

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



Date: 5.MAR.2024 09:54:56

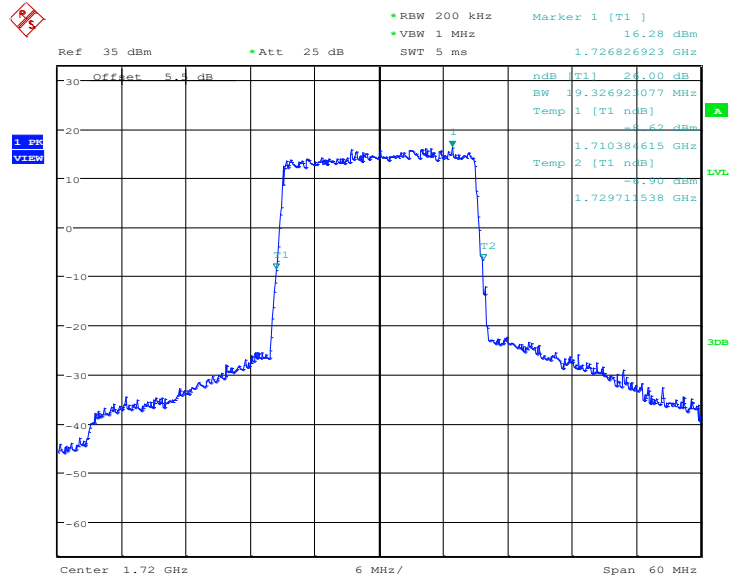
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LTE band 4,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
1720	19.327
1732.5	19.135
1745	19.231

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

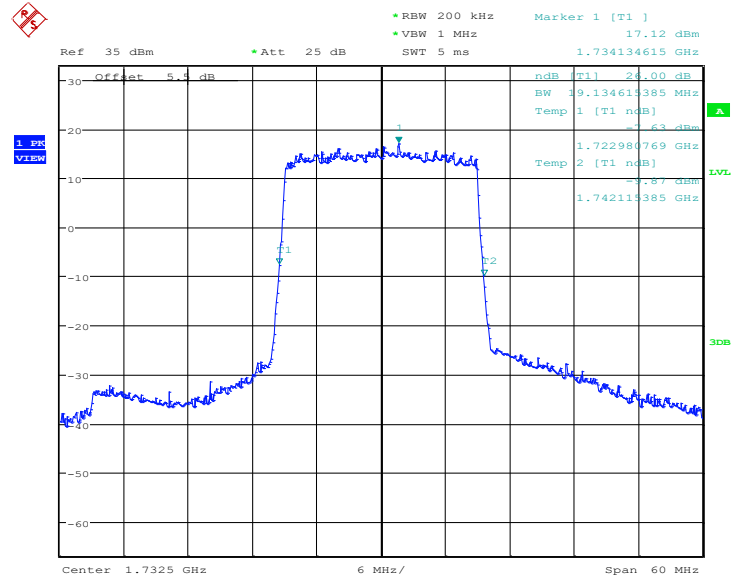


Date: 5.MAR.2024 09:56:03

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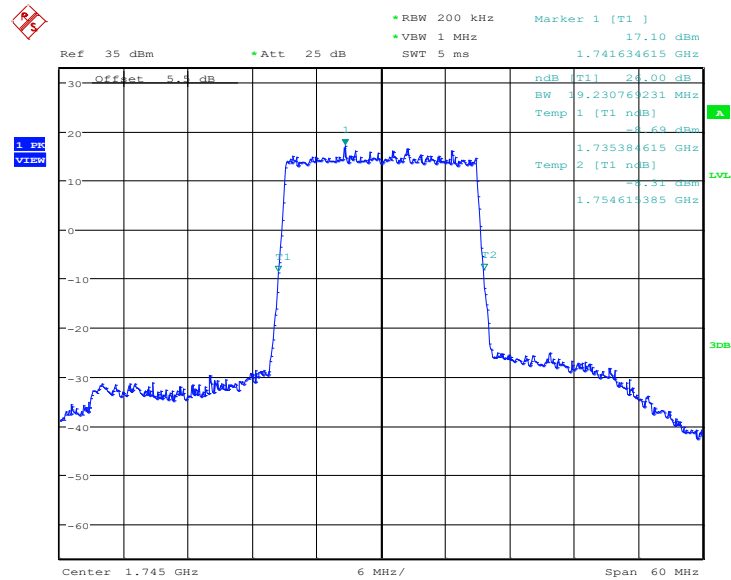
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LTE band 4 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)



Date: 5.MAR.2024 09:56:30

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



Date: 5.MAR.2024 09:56:56

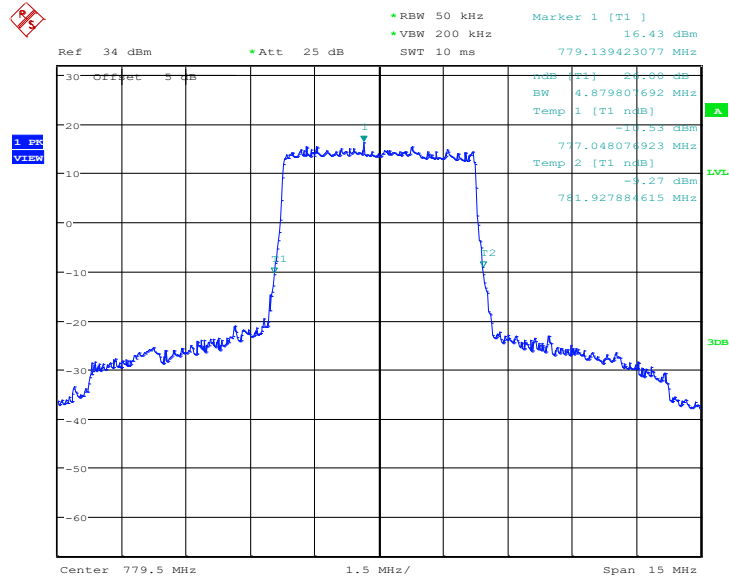
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 13,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
779.5	4.880	4.952
782	4.952	4.928
784.5	4.952	4.952

LTE band 13 , 5MHz Bandwidth,LOW,QPSK (-26dBc BW)

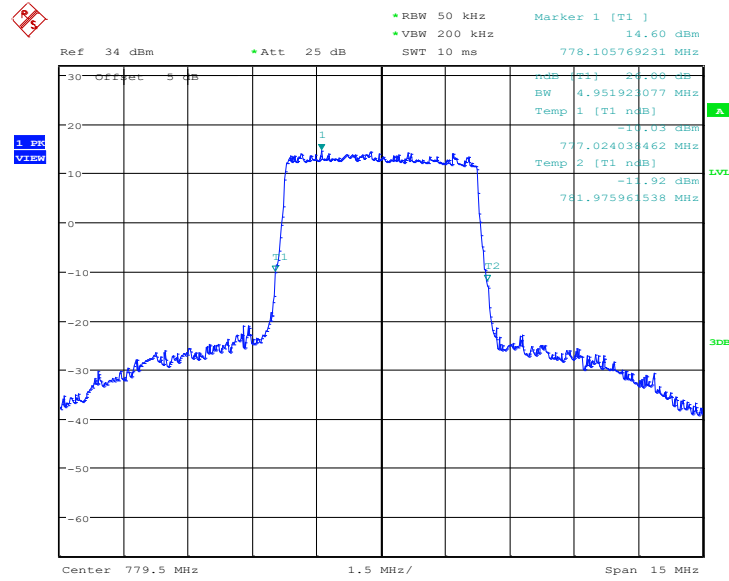


Date: 5.MAR.2024 09:58:05

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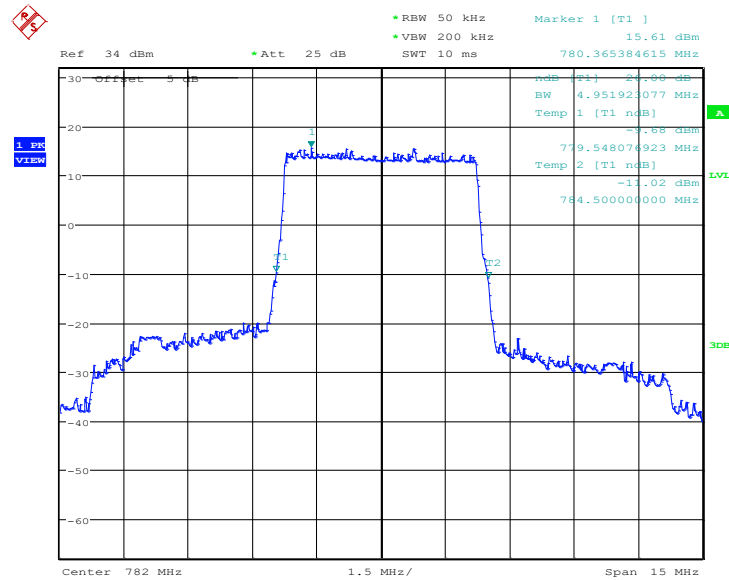
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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LTE band 13 , 5MHz Bandwidth,LOW,16QAM (-26dBc BW)



Date: 5.MAR.2024 09:58:36

LTE band 13 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)

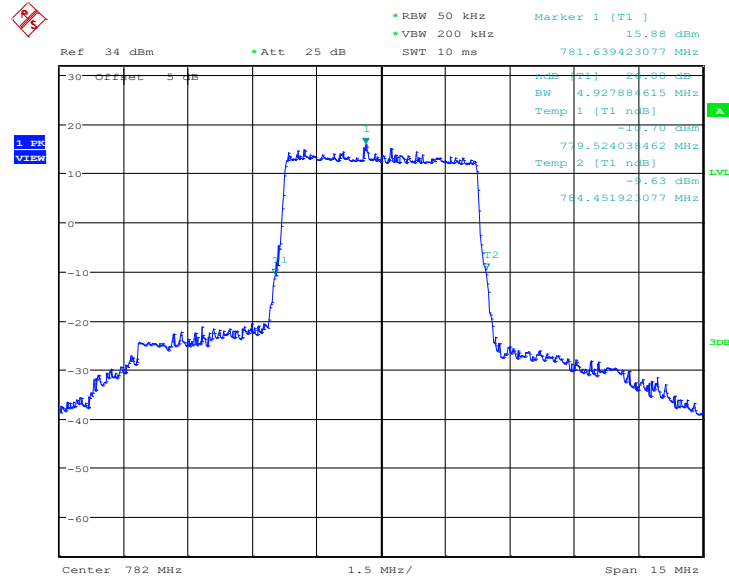


Date: 5.MAR.2024 09:59:06

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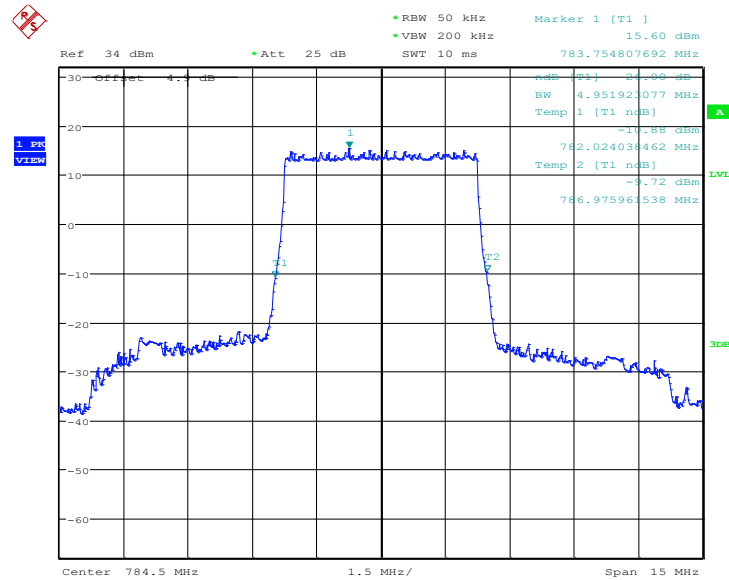
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LTE band 13 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



Date: 5.MAR.2024 09:59:28

LTE band 13 , 5MHz Bandwidth,HIGH,QPSK (-26dBc BW)

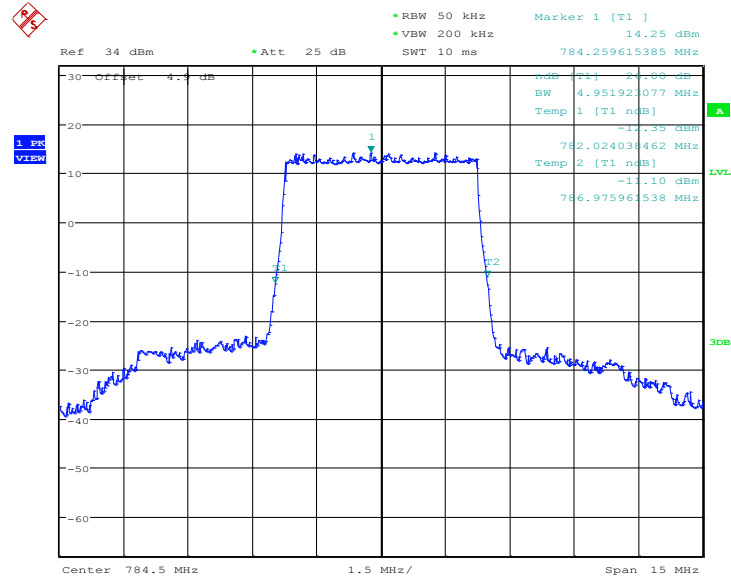


Date: 5.MAR.2024 09:59:56

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LTE band 13 , 5MHz Bandwidth,HIGH,16QAM (-26dBc BW)



Date: 5.MAR.2024 10:00:18

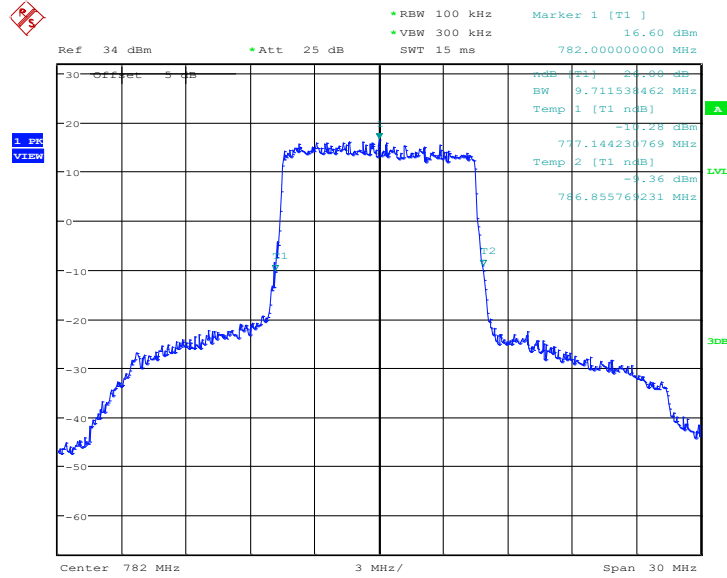
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 13,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
	QPSK
782	9.712

LTE band 13 , 10MHz Bandwidth,LOW,QPSK (-26dBc BW)



Date: 5.MAR.2024 10:01:25

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6.5. Conducted spurious emissions

Specifications:	FCC Part 2.1051,2.1053,27.53
DUT Serial Number:	IMEI:866484030180649
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(c)(f):(c)For operations in the 746 – 758 MHz band and the 776 – 788 MHz band, 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 any frequency outside the 746 – 758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776 – 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763 – 775 MHz and 793 – 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;
- (4) On all frequencies between 763 – 775 MHz and 793 – 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;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) 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 at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4)
- (f) For operations in the 746 – 758 MHz, 775 – 788 MHz, and 805 – 806 MHz bands, emissions 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.

According to Part 27.53(h):for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

Measurement Uncertainty:

Item	Uncertainty
------	-------------

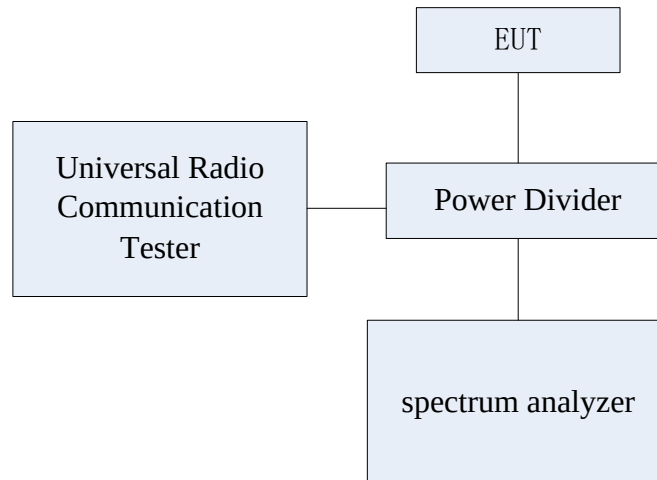
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Expanded Uncertainty	1.74 dB (k=2)
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Test Setup:

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



Test Method:

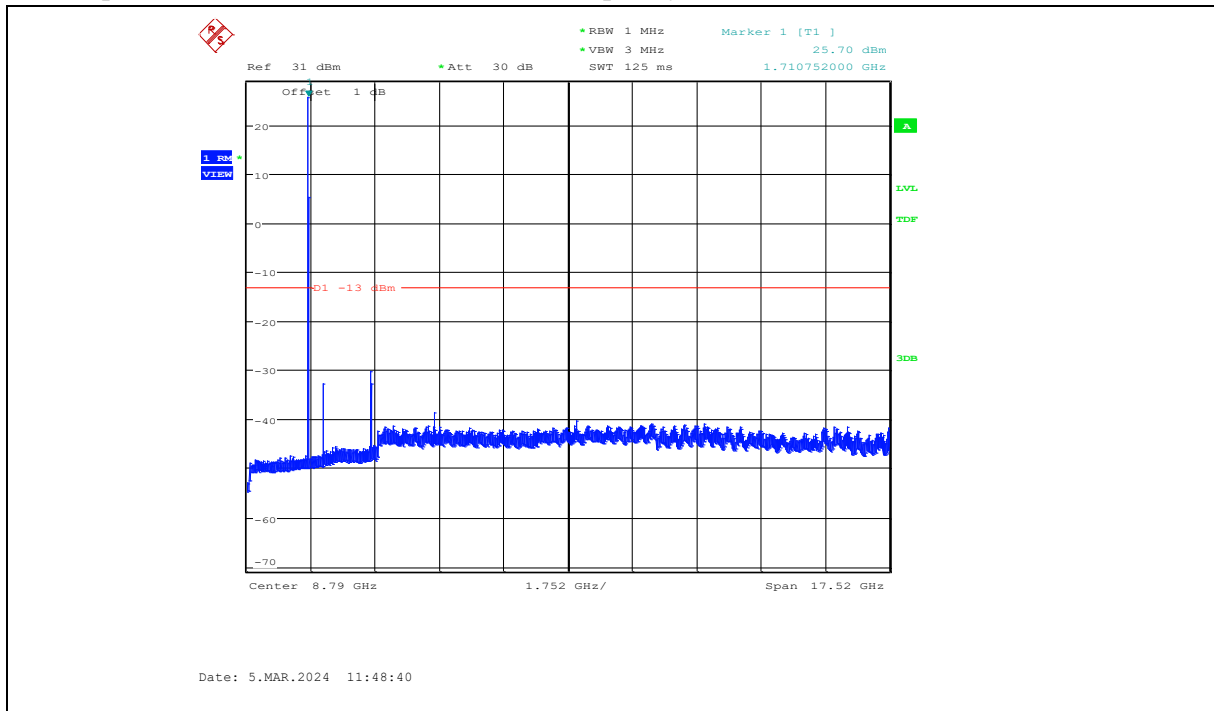
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution.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

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

6.5.1 Conducted Spurious Emission Results

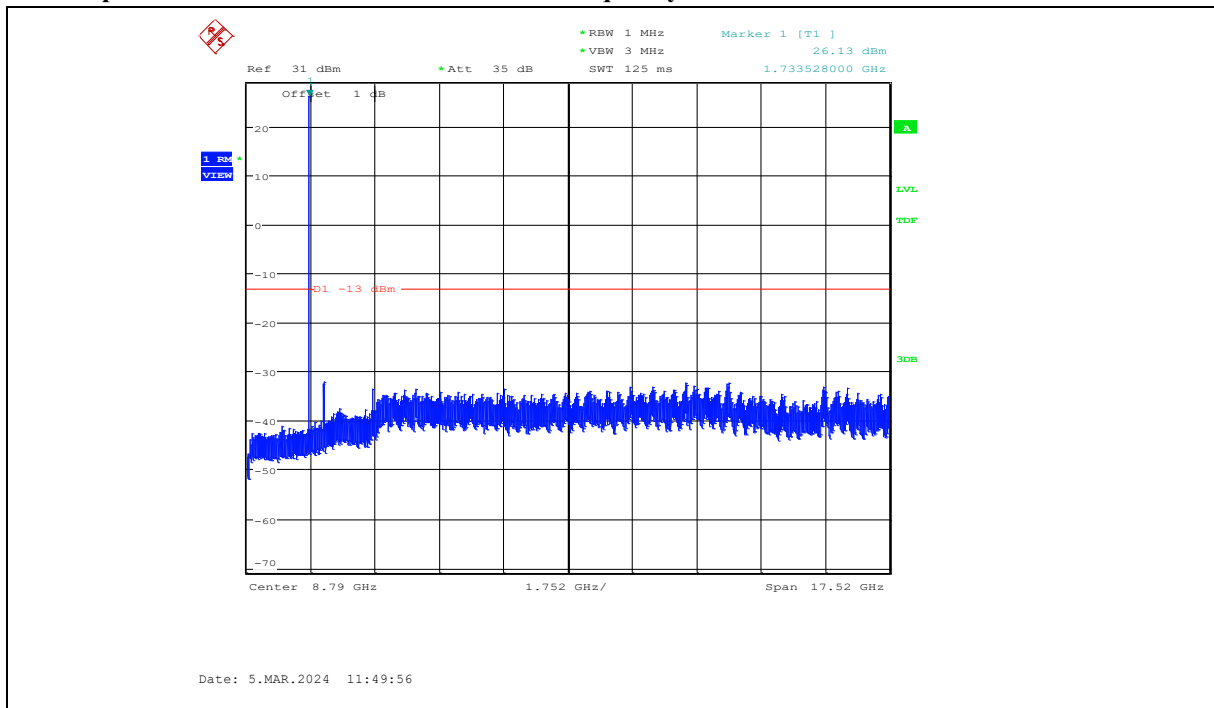
LTE band 4-1.4MHz-QPSK-LOW-1RB

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



LTE band 4-3MHz-QPSK-MID-50% RB

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

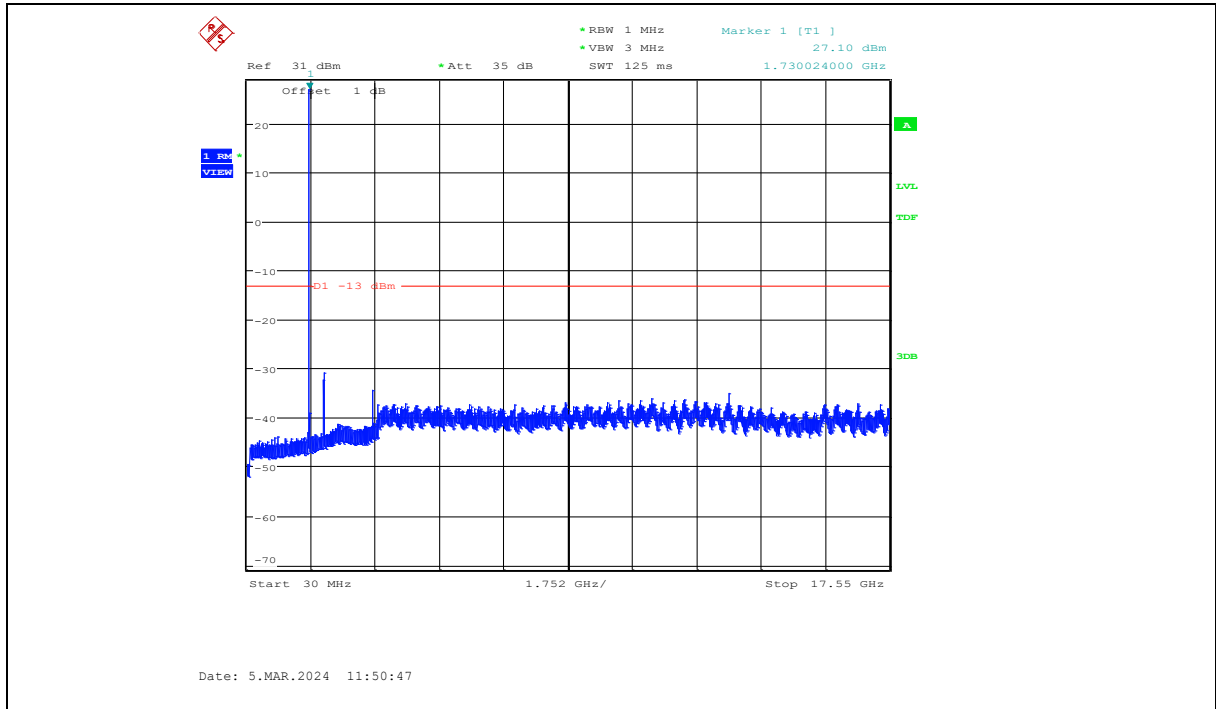


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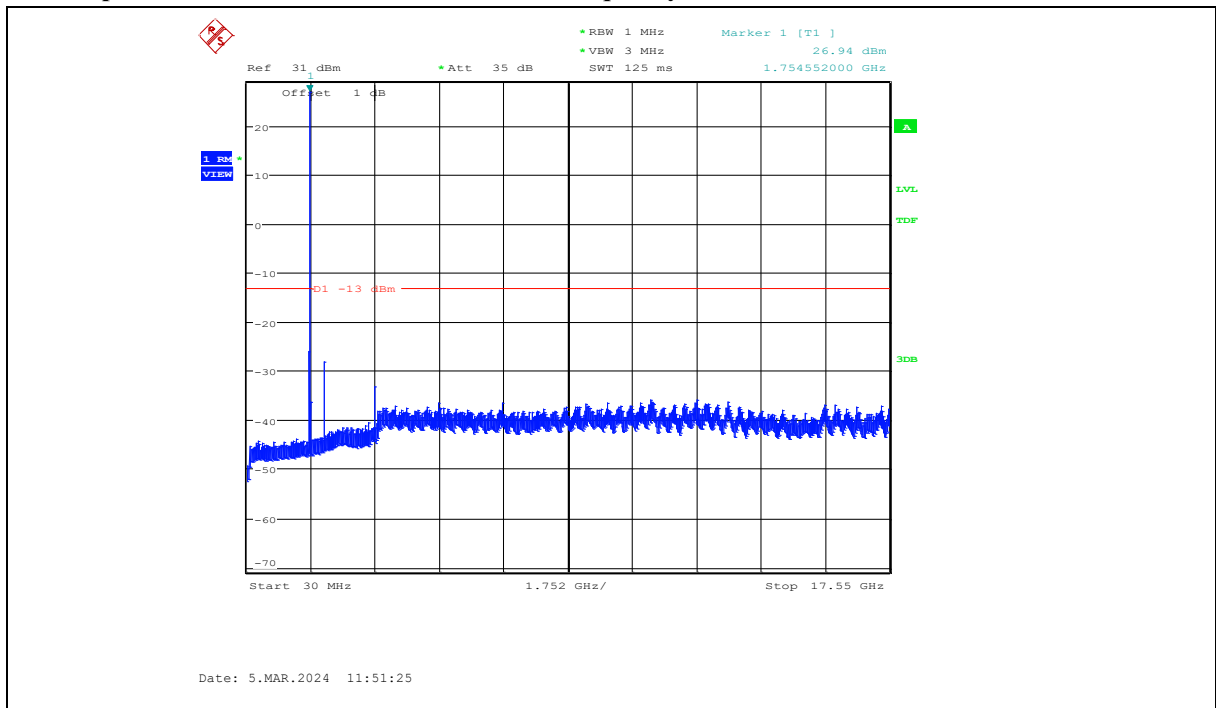
LTE band 4-5MHz-QPSK-MID-1RB

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



LTE band 4-10MHz-QPSK-HIGH-1RB

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

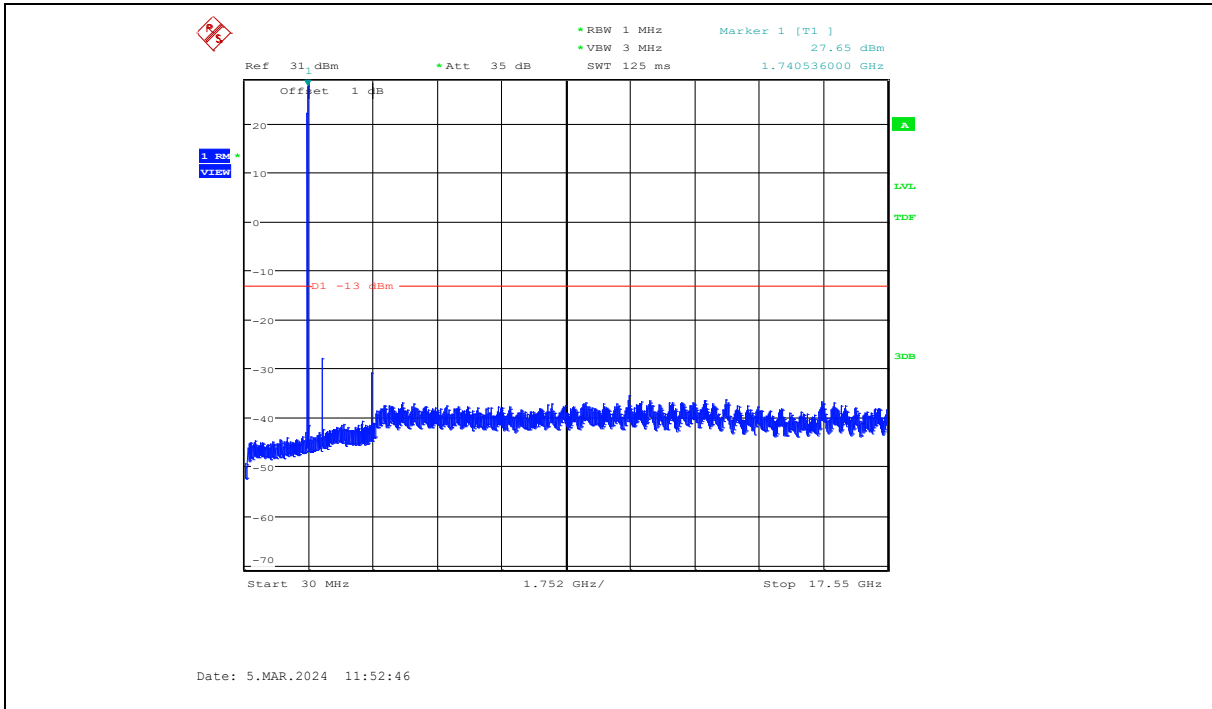


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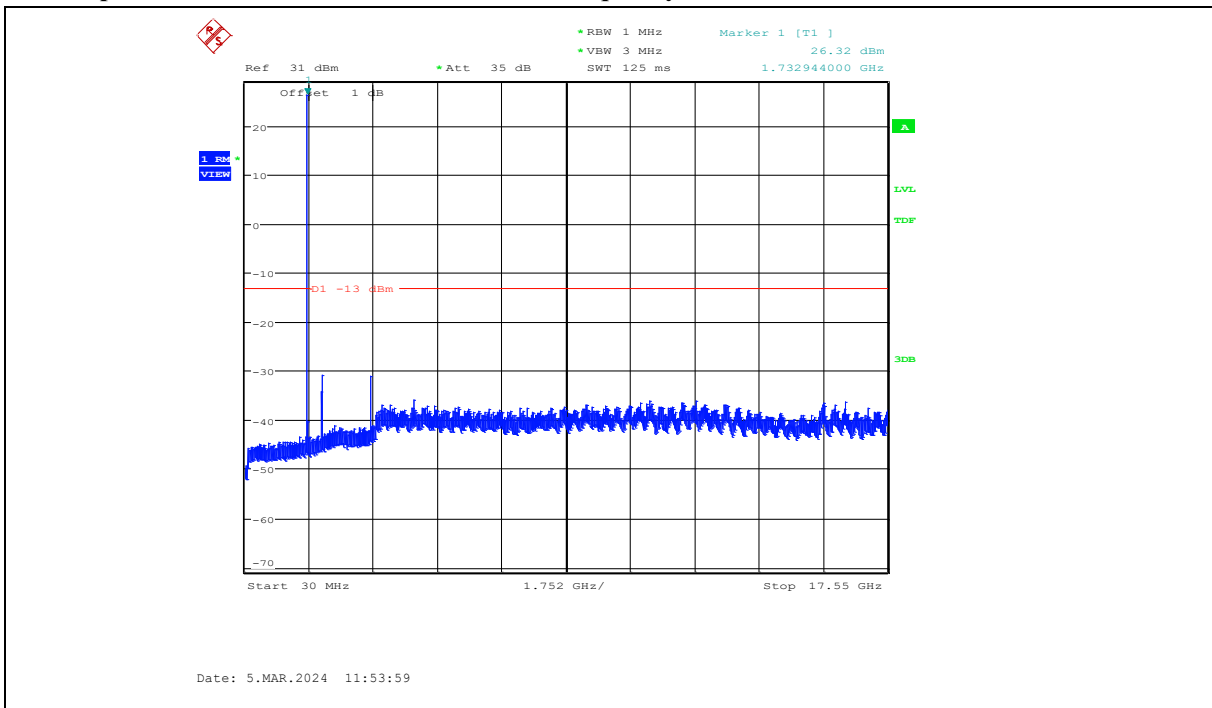
LTE band 4-15MHz-QPSK-HIGH-1RB

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



LTE band 4-20MHz-QPSK-MID-1RB

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

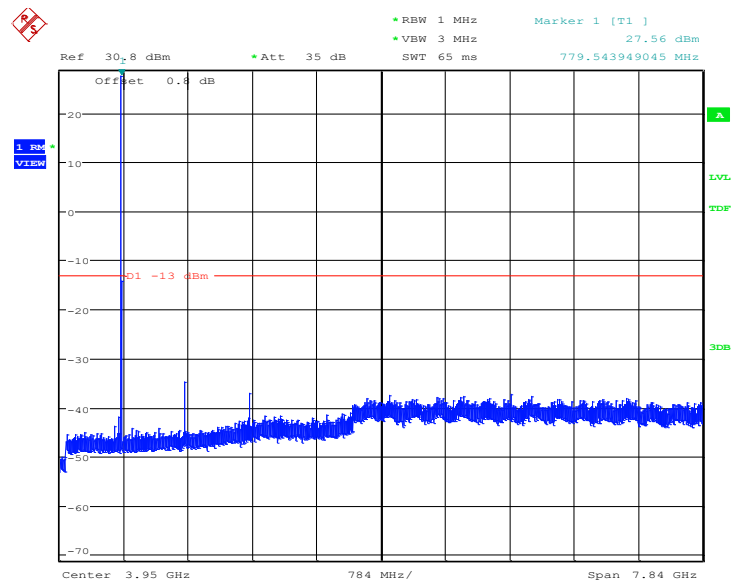


Chongqing Academy of Information and Communication Technology

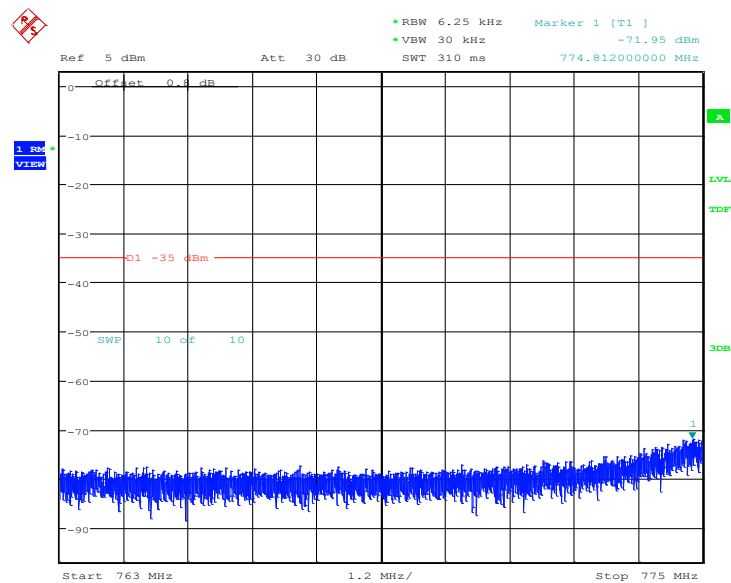
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 13-5MHz-QPSK-LOW-1RB

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



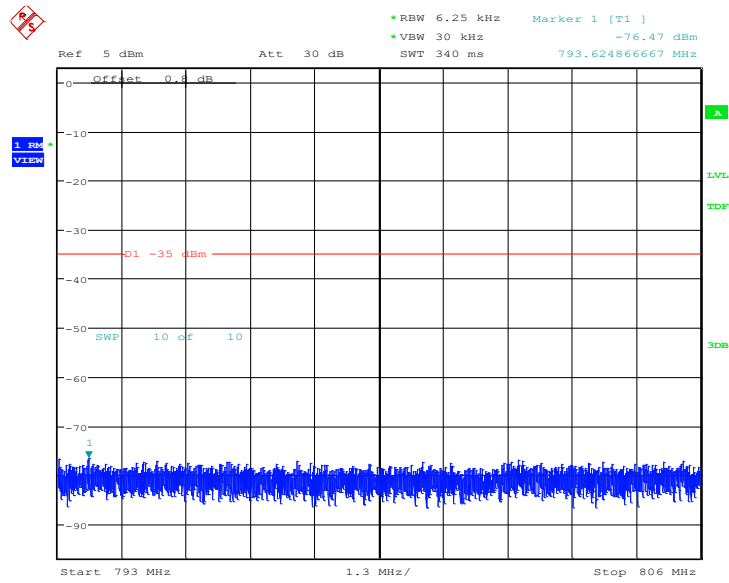
Date: 5.MAR.2024 12:05:28



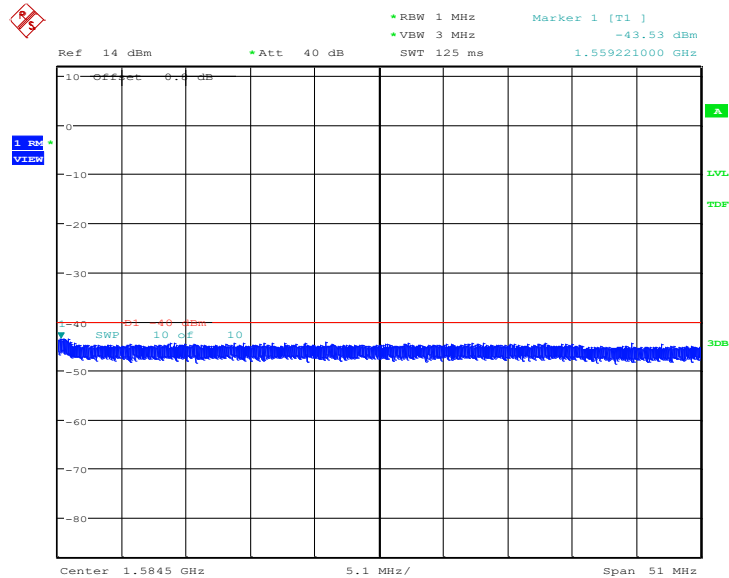
Date: 5.MAR.2024 12:06:03

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Date: 5.MAR.2024 12:06:38



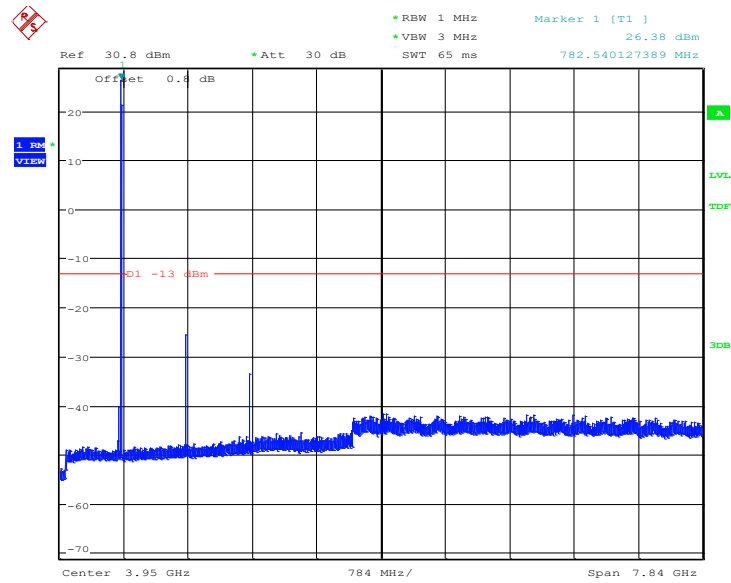
Date: 5.MAR.2024 12:08:07

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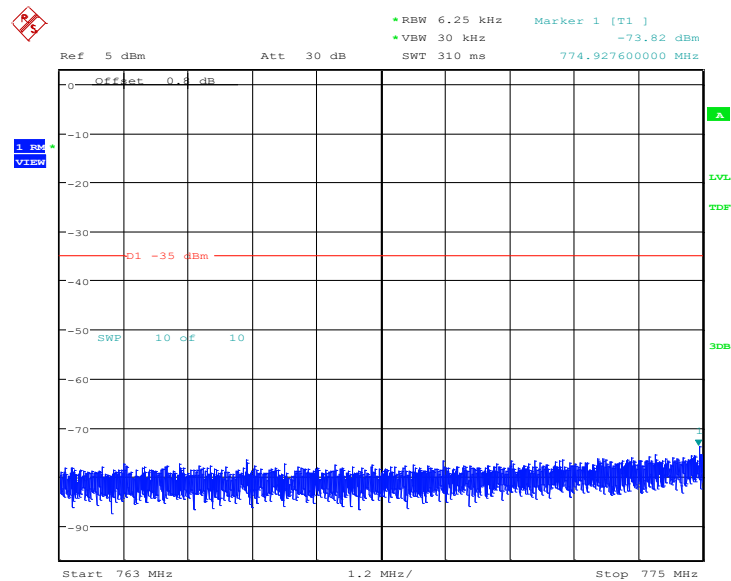
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LTE band 13-10MHz-QPSK-LOW-1RB

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



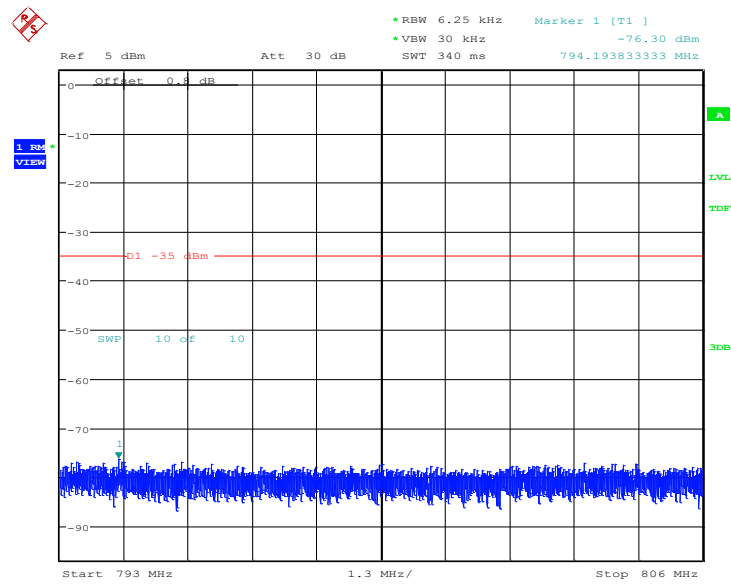
Date: 5.MAR.2024 12:09:23



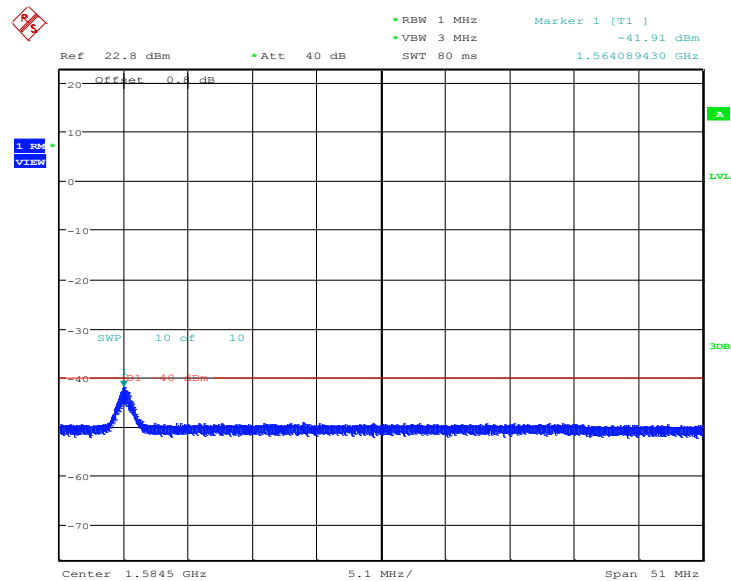
Date: 5.MAR.2024 12:10:00

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Date: 5.MAR.2024 12:10:36



Date: 5.MAR.2024 12:15:39

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6.6. Radiated Spurious Emission

Specifications:	FCC Part 2.1051,2.1053,27.53
DUT Serial Number:	IMEI:866484030180465
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(c)(f):(c)For operations in the 746 – 758 MHz band and the 776 – 788 MHz band, 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 any frequency outside the 746 – 758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776 – 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763 – 775 MHz and 793 – 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;
- (4) On all frequencies between 763 – 775 MHz and 793 – 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;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) 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 at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4)
- (f) For operations in the 746 – 758 MHz, 775 – 788 MHz, and 805 – 806 MHz bands, emissions 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.

According to Part 27.53(h):for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

Limits for Radiated spurious emissions(UE)

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Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

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)

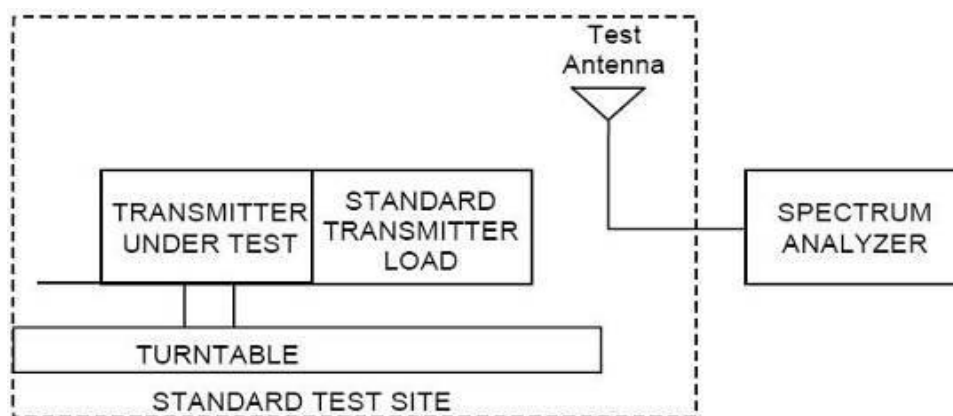
Test Setup:

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.

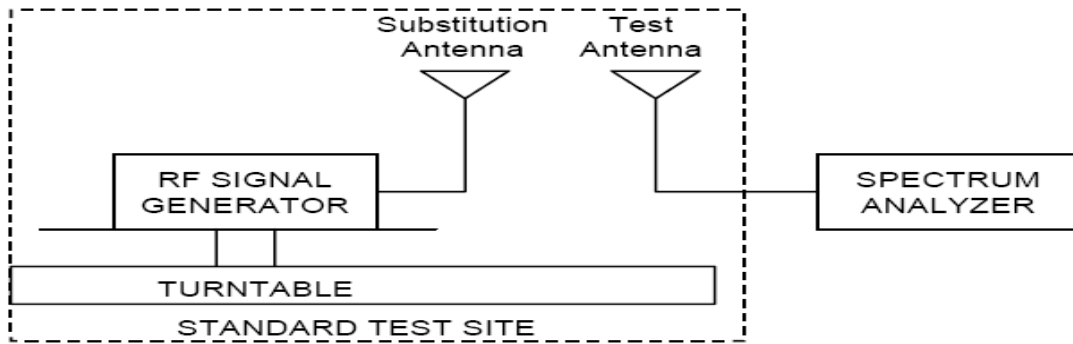
(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.

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(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna 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 B4 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 19957 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
165.954000	-67.59	0.3	-0.1	-67.99	V
272.928000	-69.49	0.3	0.3	-69.49	H
2111.100000	-62.46	1.1	9.6	-53.96	H
3420.967742	-75.41	1.7	12.5	-64.61	V
9228.000000	-65.77	3.3	10.8	-58.27	V
11083.500000	-67.10	2.8	11.6	-58.30	V

LTE B4 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.962000	-68.76	0.3	-0.1	-69.16	V
421.482000	-72.51	0.4	0.5	-72.41	V
2132.800000	-61.74	1.2	9.3	-53.64	H
5103.870968	-77.45	2.1	12.4	-67.15	V
9232.500000	-65.79	3.3	10.8	-58.29	V
11085.500000	-67.27	2.8	11.8	-58.27	V

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LTE B4 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 20392 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
165.996000	-69.05	0.3	-0.1	-69.45	V
274.650000	-69.44	0.3	0.3	-69.44	H
2154.500000	-61.98	1.2	9.3	-53.88	H
5077.741936	-77.46	2.1	12.4	-67.16	V
9202.500000	-65.87	3.3	10.9	-58.27	V
10885.500000	-65.71	3.0	11.0	-57.71	V

LTE B13 Radiated Spurious Emission Results

Test Data (10MHz bandwidth 23230 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
167.298000	-71.2	0.3	-0.1	-71.60	V
298.632000	-70.95	0.3	0.3	-70.95	H
2201.200000	-65.19	1.2	9.0	-57.39	H
5073.387097	-77.54	2.1	12.4	-67.24	V
9050.500000	-67.34	3.2	11.5	-59.04	V
10236.500000	-66.83	2.9	11.1	-58.63	V

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1592.4	-71.40	1.00	6.30	-66.10	H

The max radiated power of 1559-1610 MHz is -66.10dBm<-40dBm (-70dBW/MHz) . There is no signal that bandwidth is less than 700 Hz bandwidth

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6.7. Band Edge

Specifications:	FCC Part 2.1051,2.1053,27.53
DUT Serial Number:	IMEI:866484030180649
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(c)(f):(c)For operations in the 746 – 758 MHz band and the 776 – 788 MHz band, 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 any frequency outside the 746 – 758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776 – 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763 – 775 MHz and 793 – 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;
- (4) On all frequencies between 763 – 775 MHz and 793 – 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;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) 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 at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4)
- (f) For operations in the 746 – 758 MHz, 775 – 788 MHz, and 805 – 806 MHz bands, emissions 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.

According to Part 27.53(h):for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

Measurement Uncertainty:

Item	Uncertainty
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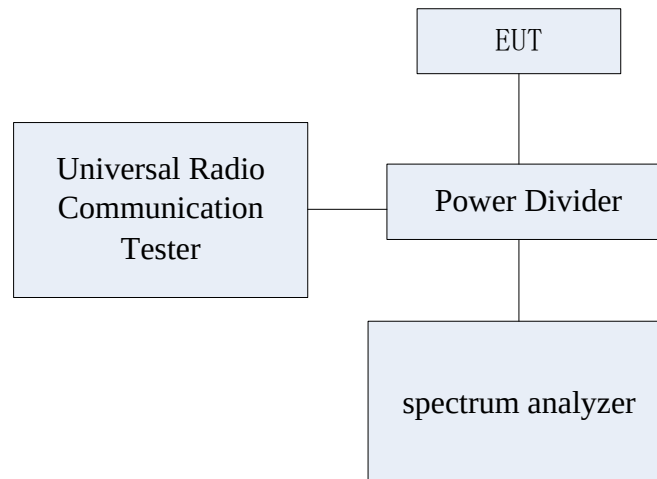
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Expanded Uncertainty	1.28 dB (k=2)
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Test Setup:

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



Test Method:

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The lost of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the emission Bandwidth.

Note1: The Band Edge test data include QPSK and 16QAM. The following test results only reflect the date of the worse mode QPSK.

Note2: In this test item, the OBW test data do only use the OBW values to calculate RBW setting for the 1RB band edge test .

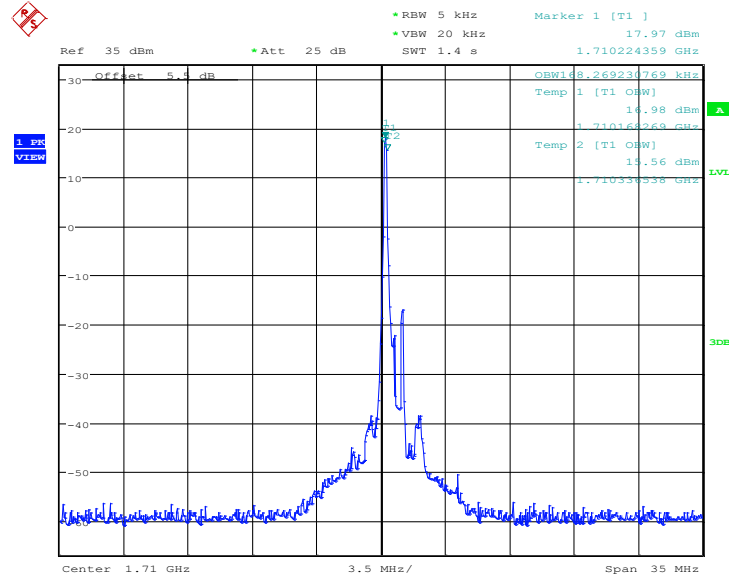
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6.8.1 Band Edge Results

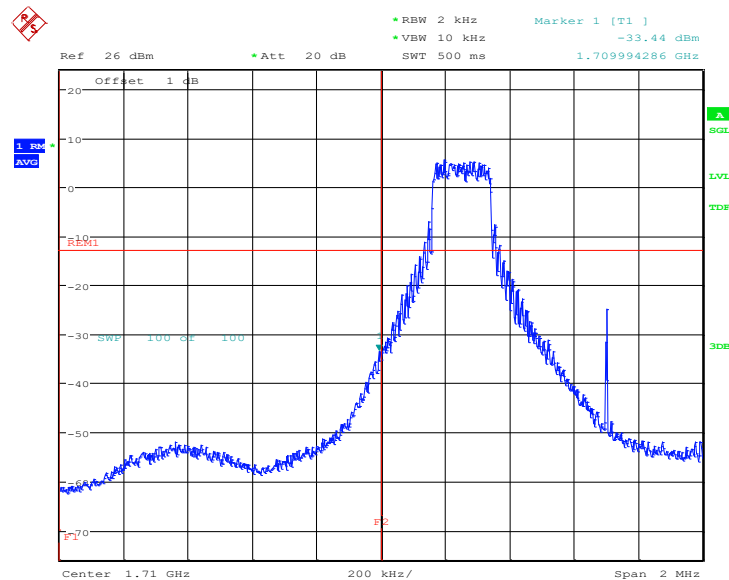
LTE band 4-1.4MHz

OBW: 1RB-LOW_offset



Date: 5.MAR.2024 10:09:11

LOW BAND EDGE BLOCK-1RB-LOW_offset

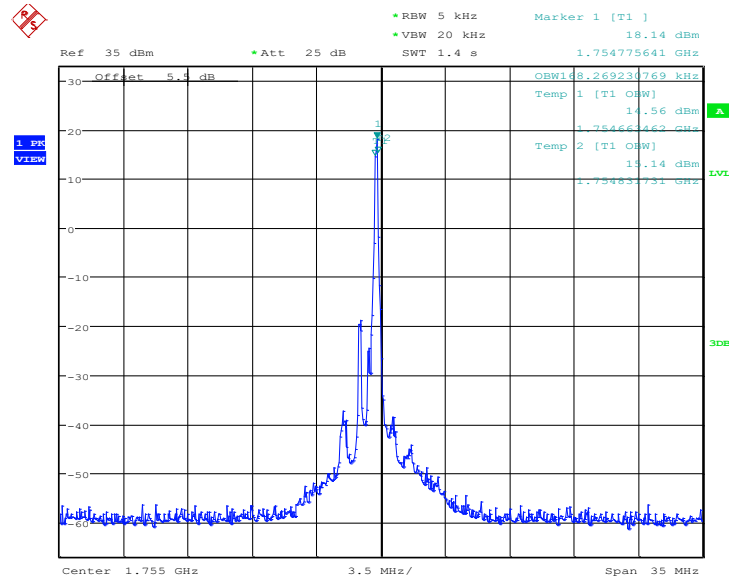


Date: 5.MAR.2024 10:10:42

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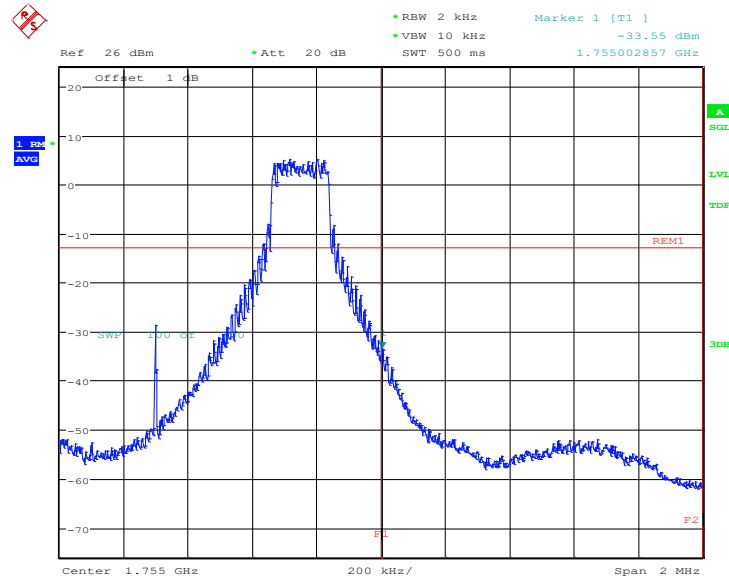
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OBW: 1RB-HIGH_offset



Date: 5.MAR.2024 10:11:56

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

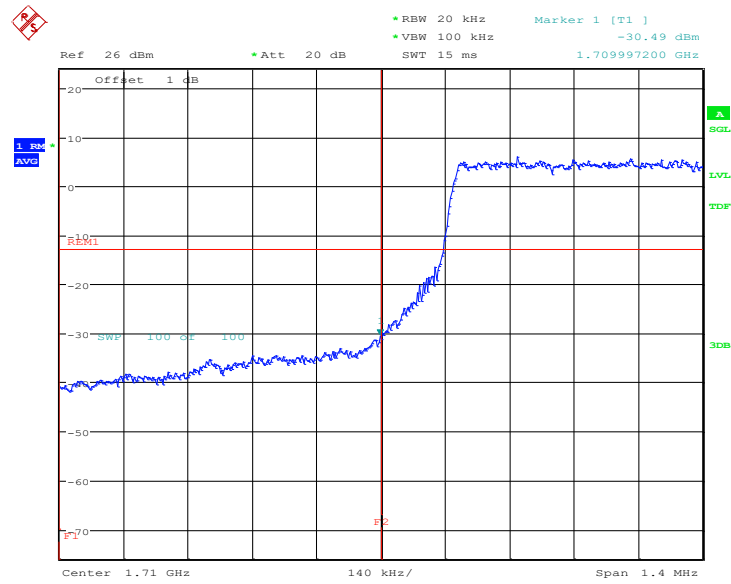


Date: 5.MAR.2024 10:13:25

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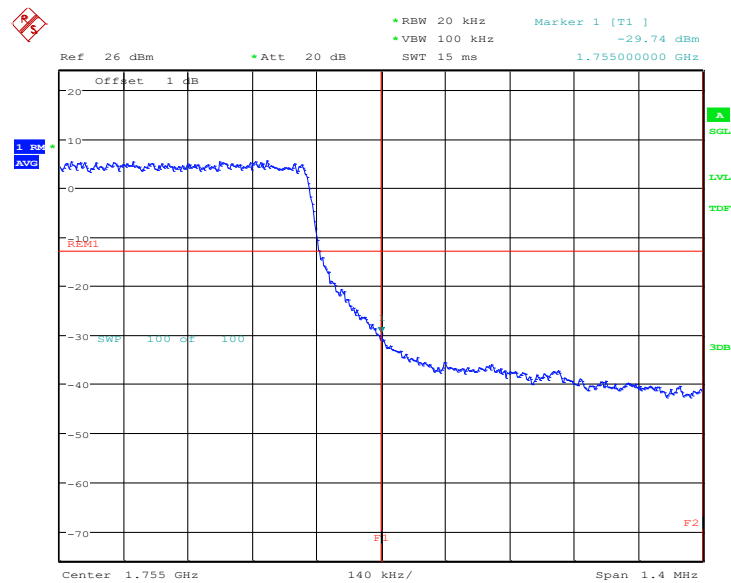
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LOW BAND EDGE BLOCK-1.4M-100%RB



Date: 5.MAR.2024 10:11:30

HIGH BAND EDGE BLOCK-1.4M-100%RB



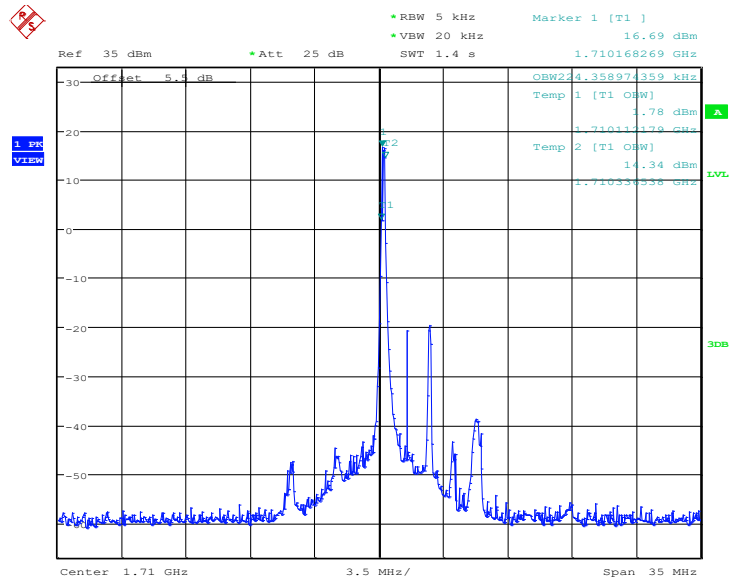
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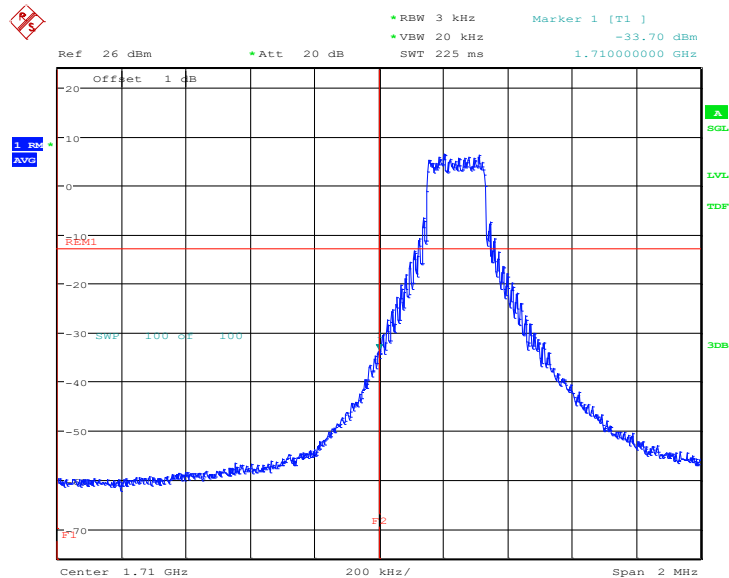
LTE band 4-3MHz

OBW: 1RB-LOW_offset



Date: 5.MAR.2024 10:15:18

LOW BAND EDGE BLOCK-1RB-LOW_offset

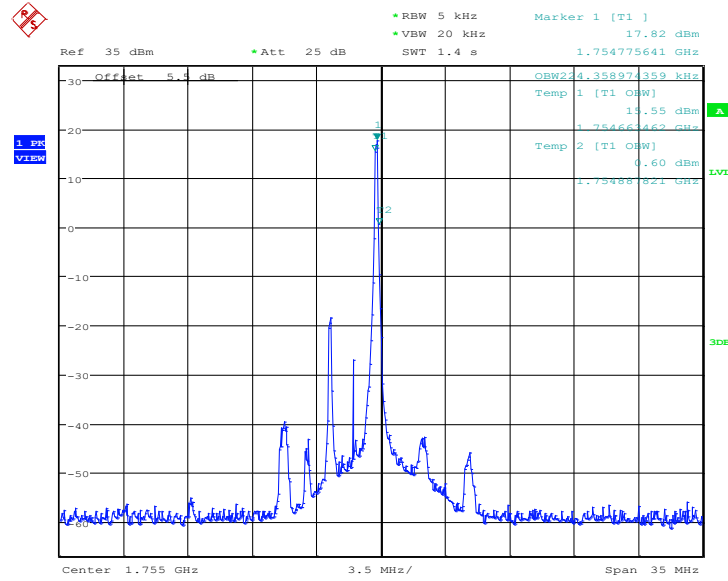


Date: 5.MAR.2024 10:16:21

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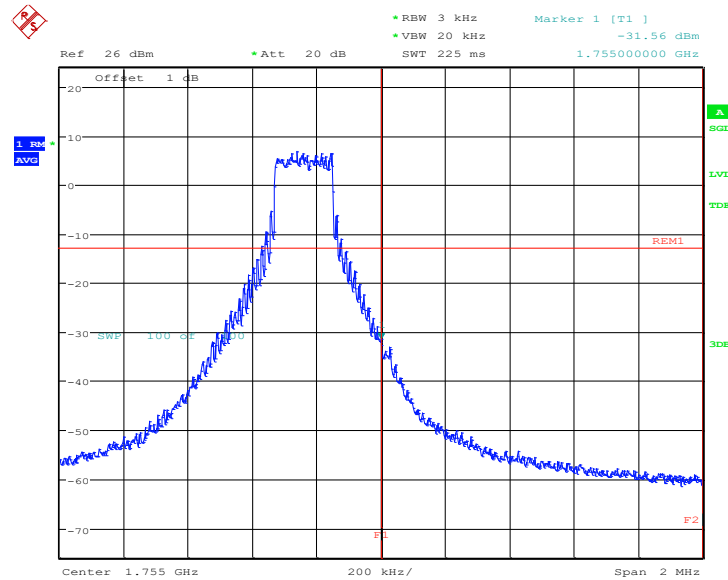
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OBW: 1RB-HIGH_offset



Date: 5.MAR.2024 10:17:32

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

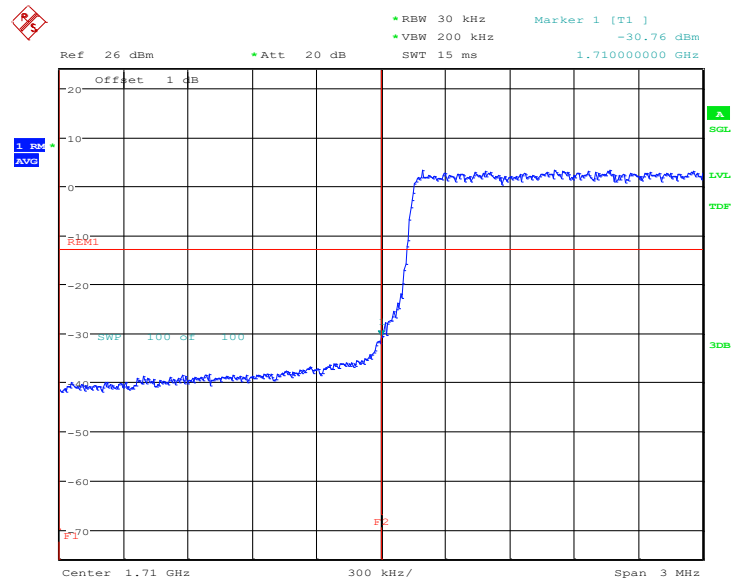


Date: 5.MAR.2024 10:18:33

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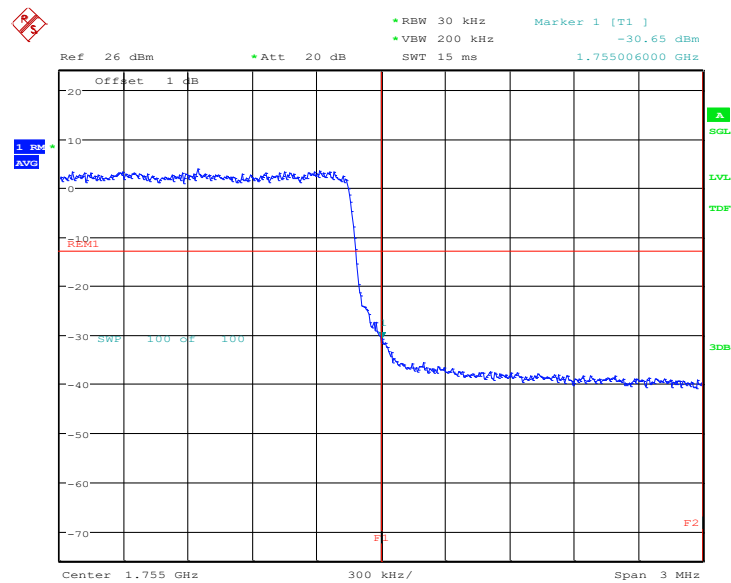
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LOW BAND EDGE BLOCK-3M-100%RB



Date: 5.MAR.2024 10:17:06

HIGH BAND EDGE BLOCK-3M-100%RB



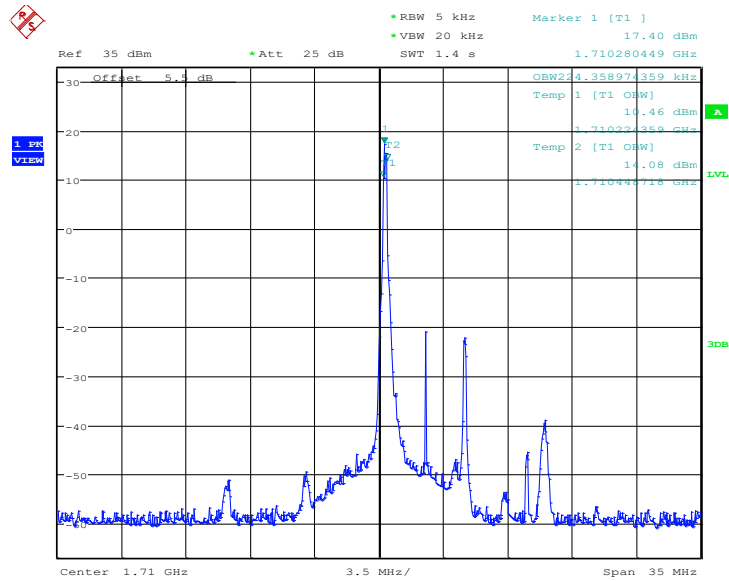
Date: 5.MAR.2024 10:19:16

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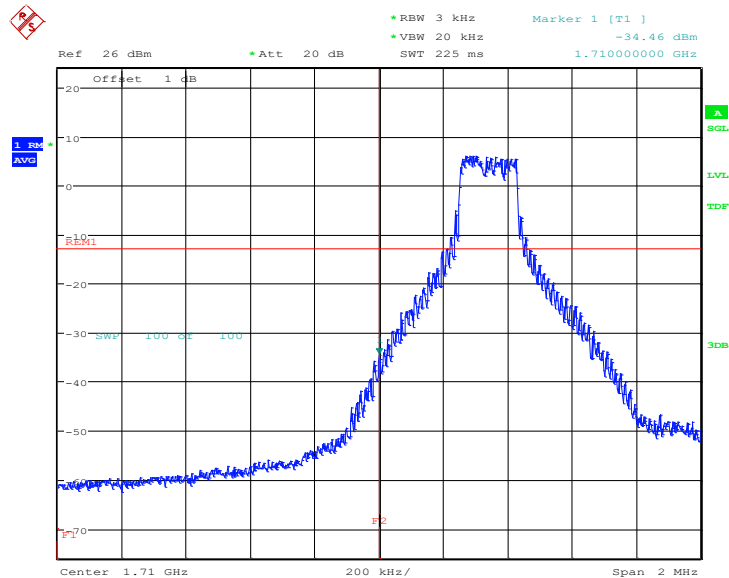
LTE band 4-5MHz

OBW: 1RB-LOW_offset



Date: 5.MAR.2024 10:20:29

LOW BAND EDGE BLOCK-1RB-LOW_offset

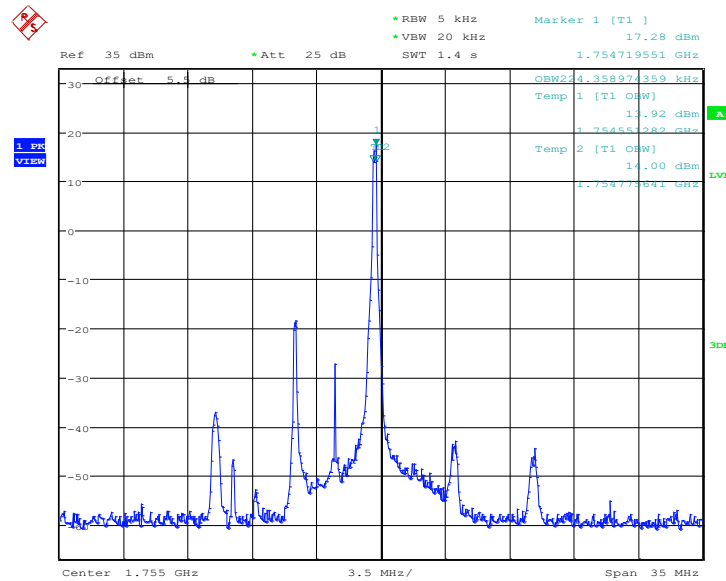


Date: 5.MAR.2024 10:21:32

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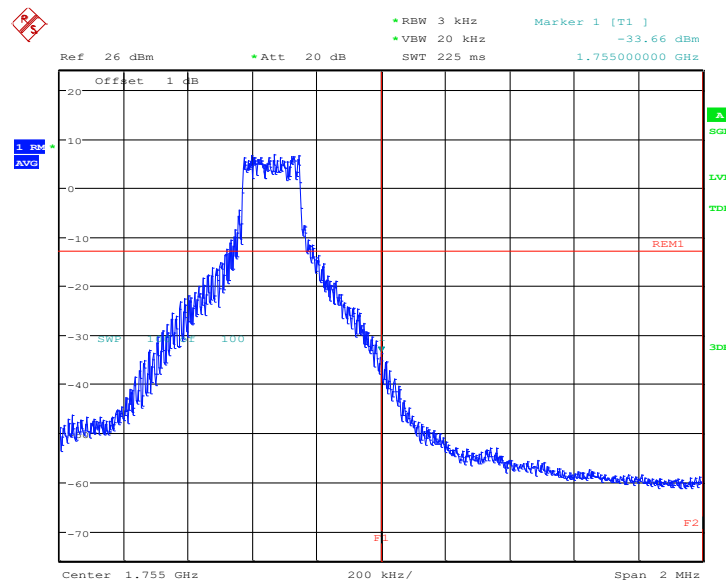
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Tel: 0086-23-88069965 FAX:0086-23-88608777

OBW: 1RB-HIGH_offset



Date: 5.MAR.2024 10:22:42

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

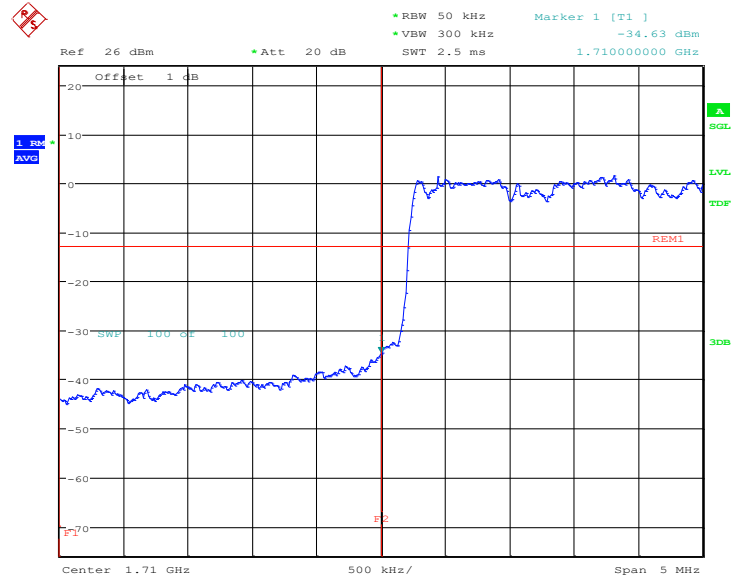


Date: 5.MAR.2024 10:23:46

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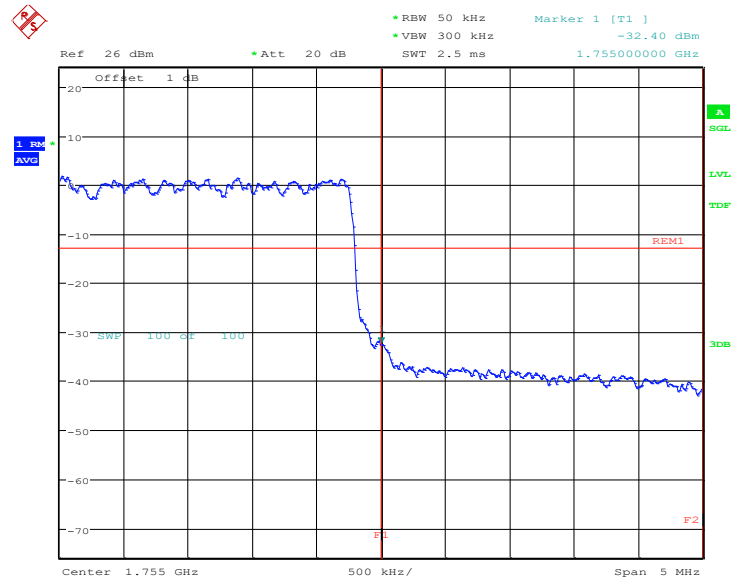
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LOW BAND EDGE BLOCK-5M-100%RB



Date: 5.MAR.2024 10:22:16

HIGH BAND EDGE BLOCK-5M-100%RB



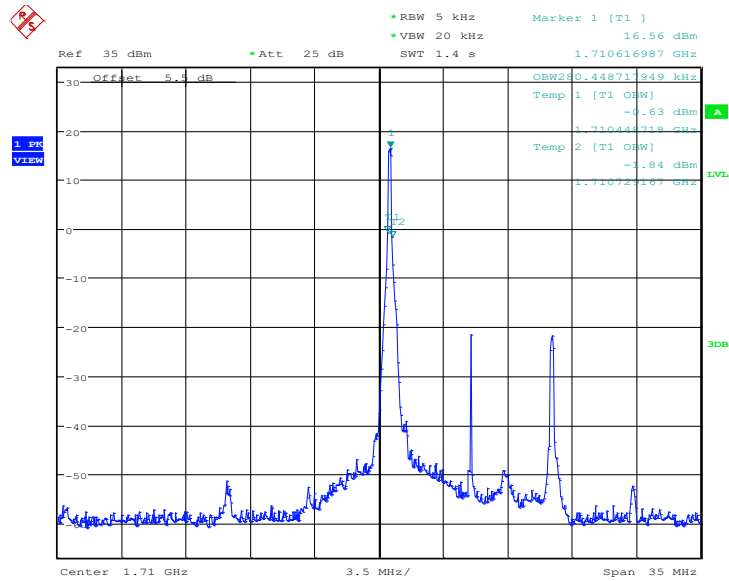
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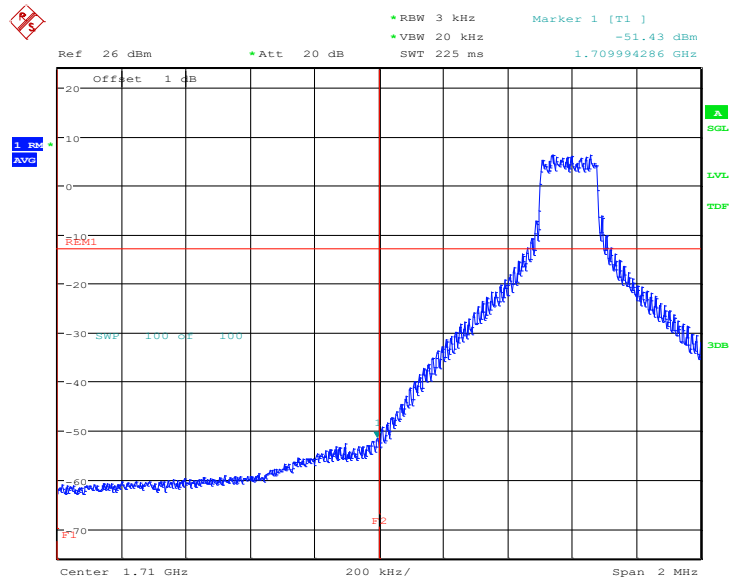
LTE band 4-10MHz

OBW: 1RB-LOW_offset



Date: 5.MAR.2024 10:25:38

LOW BAND EDGE BLOCK-1RB-LOW_offset

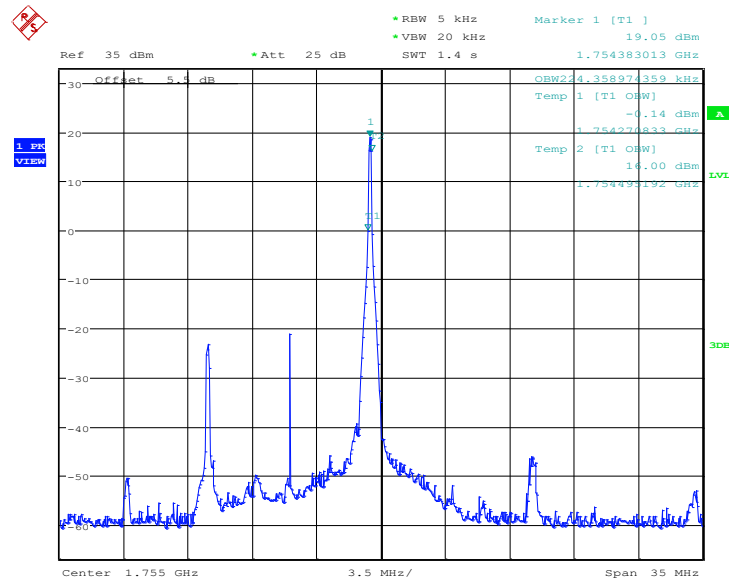


Date: 5.MAR.2024 10:26:41

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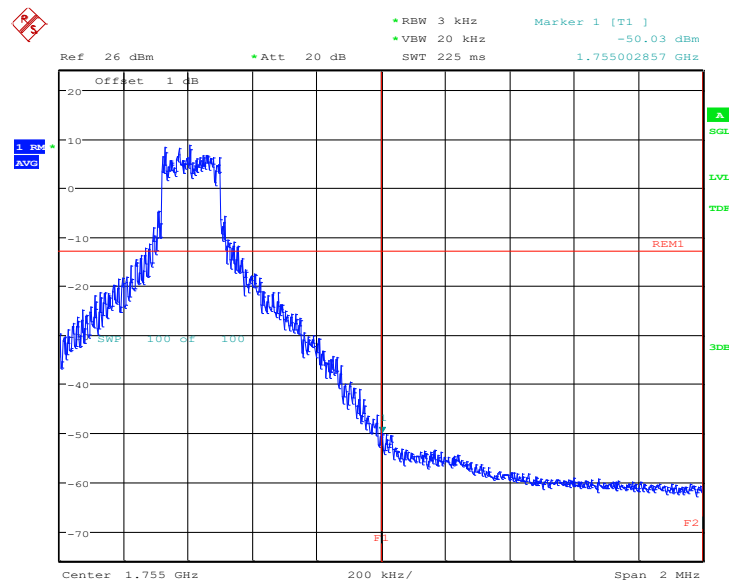
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Tel: 0086-23-88069965 FAX:0086-23-88608777

OBW: 1RB-HIGH_offset



Date: 5.MAR.2024 10:27:51

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

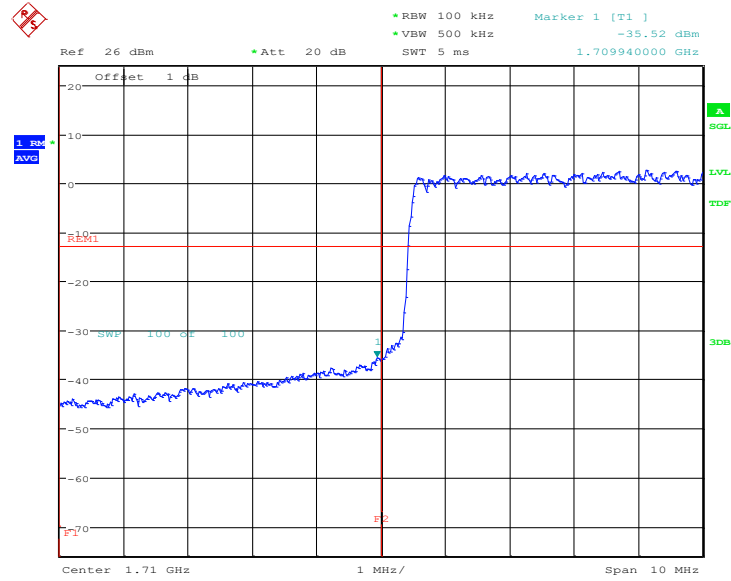


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Chongqing Academy of Information and Communication Technology

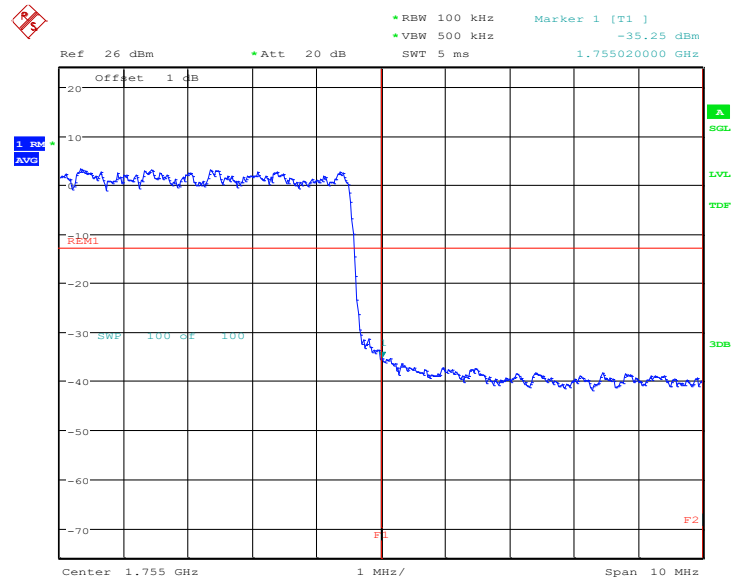
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

LOW BAND EDGE BLOCK-10M-100%RB



Date: 5.MAR.2024 10:27:25

HIGH BAND EDGE BLOCK-10M-100%RB



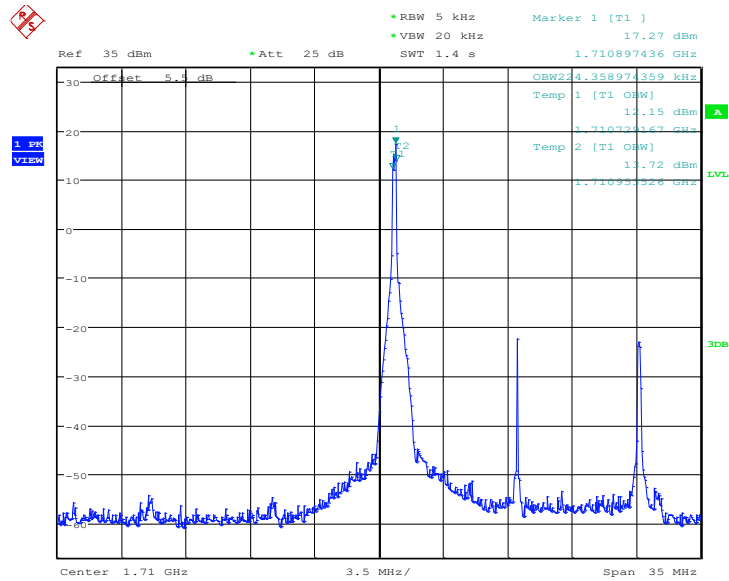
Date: 5.MAR.2024 10:29:40

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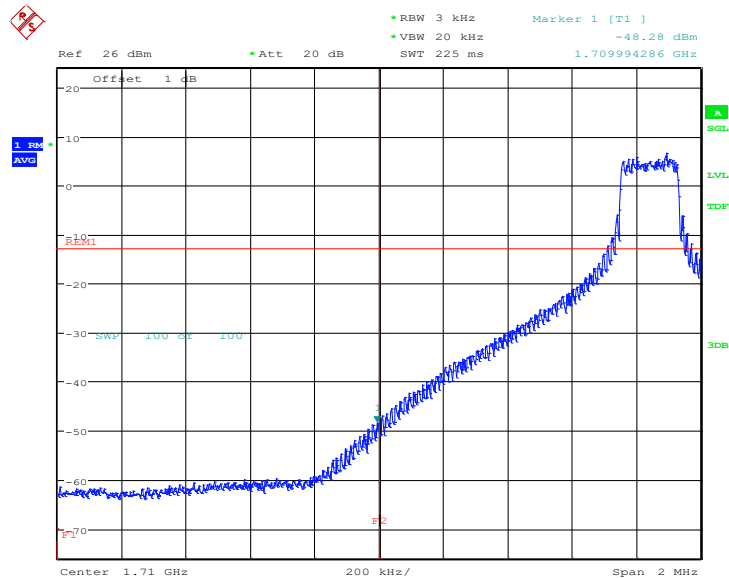
LTE band 4-15MHz

OBW: 1RB-LOW_offset



Date: 5.MAR.2024 10:30:51

LOW BAND EDGE BLOCK-1RB-LOW_offset



Date: 5.MAR.2024 10:31:54

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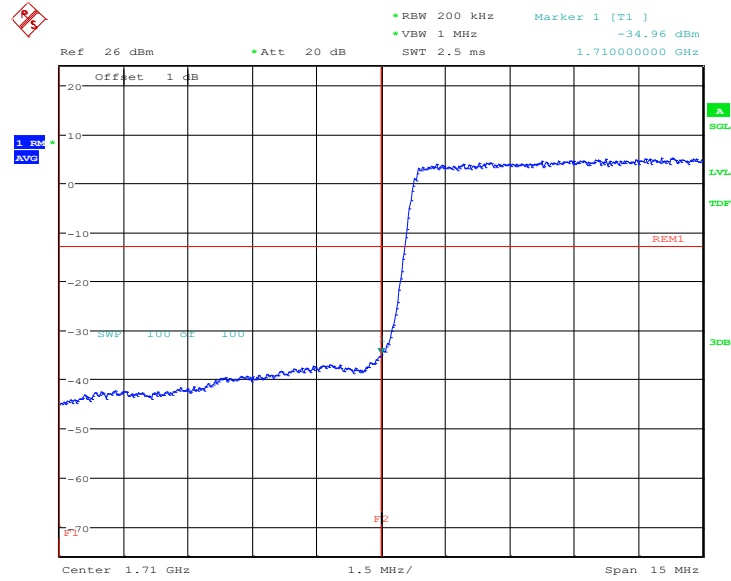
OBW: 1RB-HIGH_offset



Date: 5.MAR.2024 10:34:06

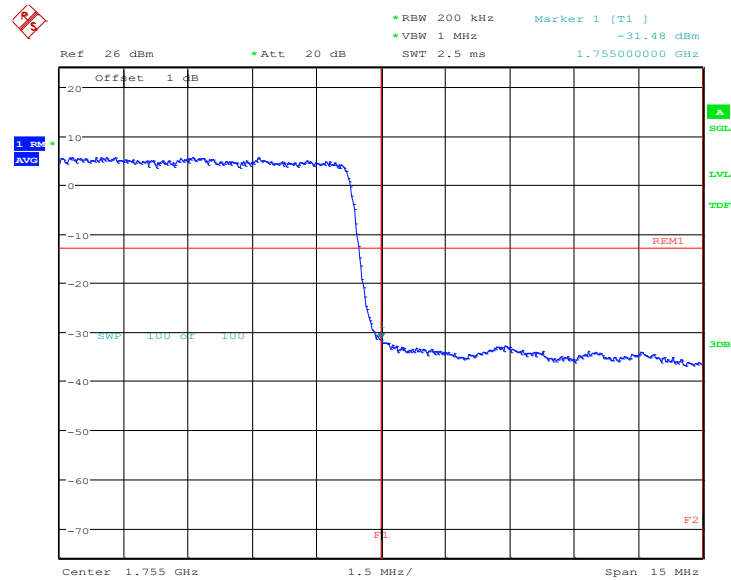
Page 106 of 147

LOW BAND EDGE BLOCK-15M-100%RB



Date: 5.MAR.2024 10:32:39

HIGH BAND EDGE BLOCK-15M-100%RB



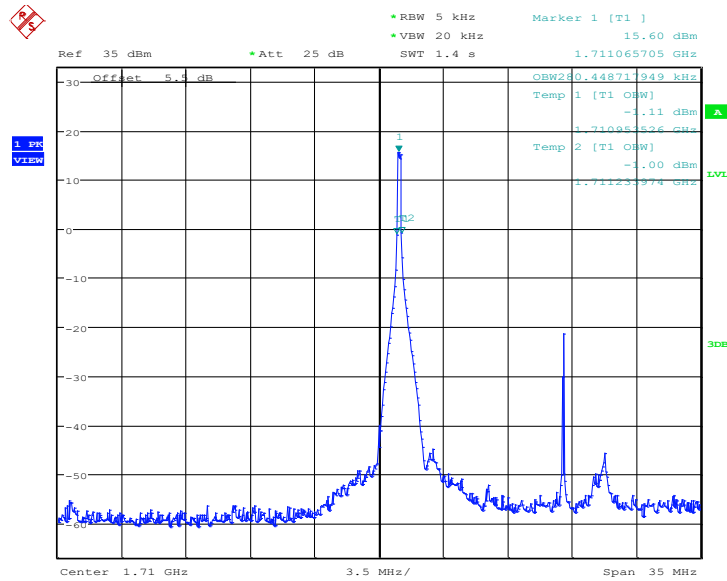
Date: 5.MAR.2024 10:34:50

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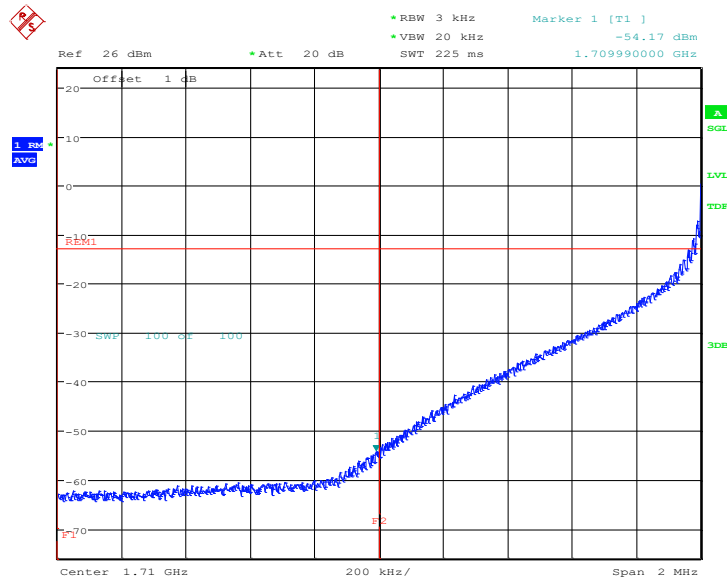
LTE band 4-20MHz

OBW: 1RB-LOW_offset



Date: 5.MAR.2024 10:36:01

LOW BAND EDGE BLOCK-1RB-LOW_offset

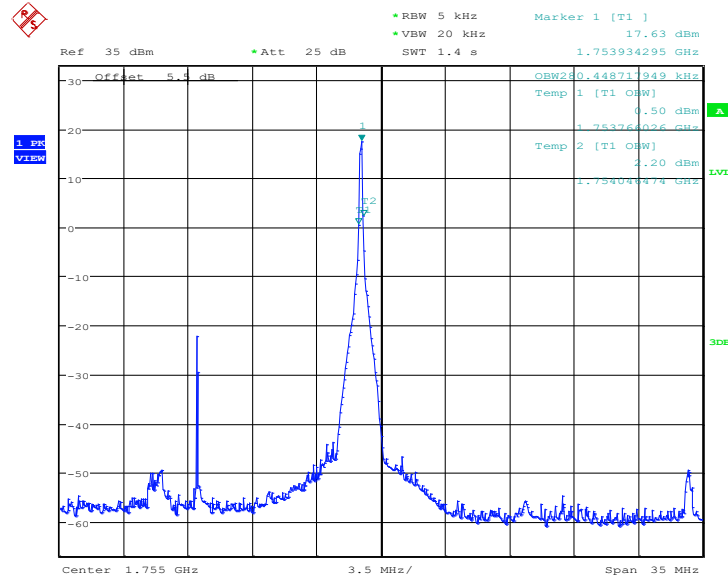


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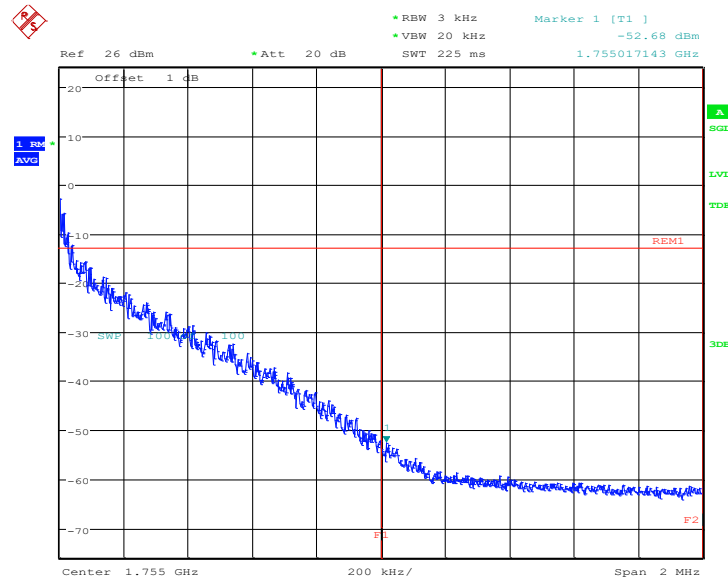
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

OBW: 1RB-HIGH_offset



Date: 5.MAR.2024 10:38:21

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

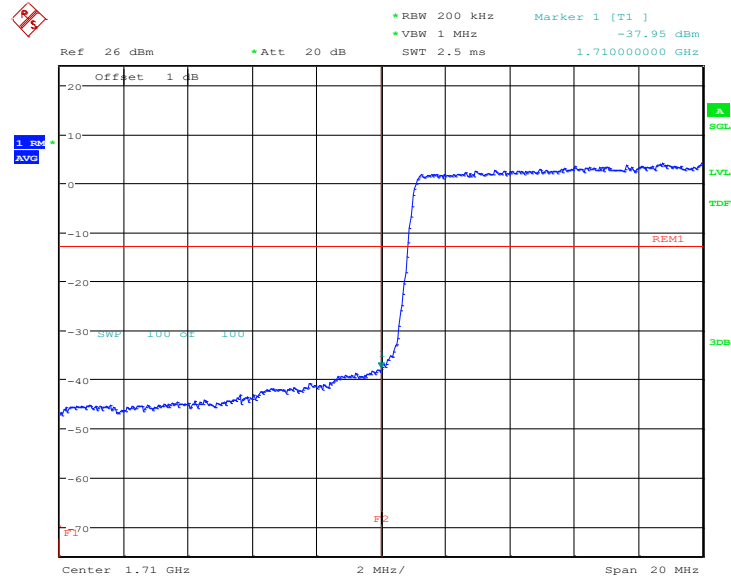


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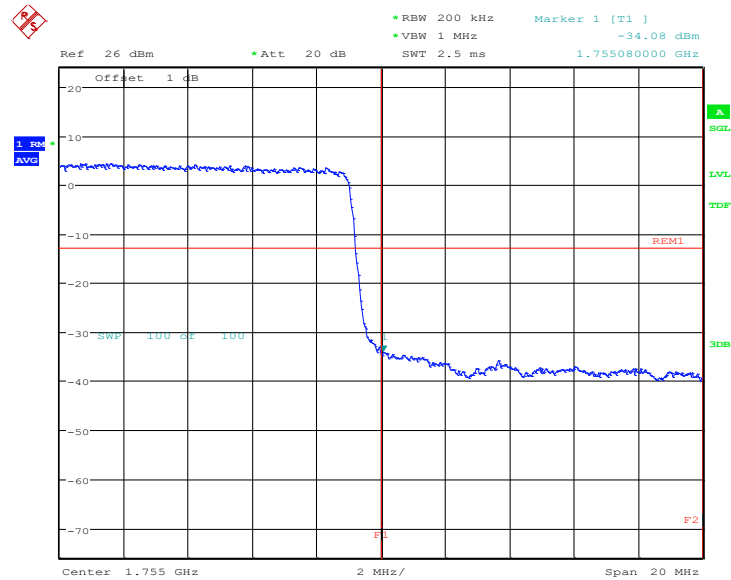
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

LOW BAND EDGE BLOCK-20M-100%RB



Date: 5.MAR.2024 10:37:51

HIGH BAND EDGE BLOCK-20M-100%RB



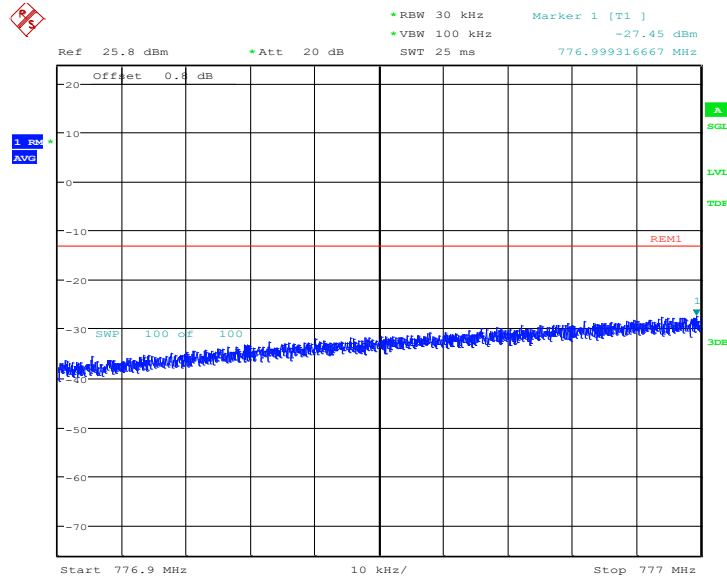
Date: 5.MAR.2024 10:40:11

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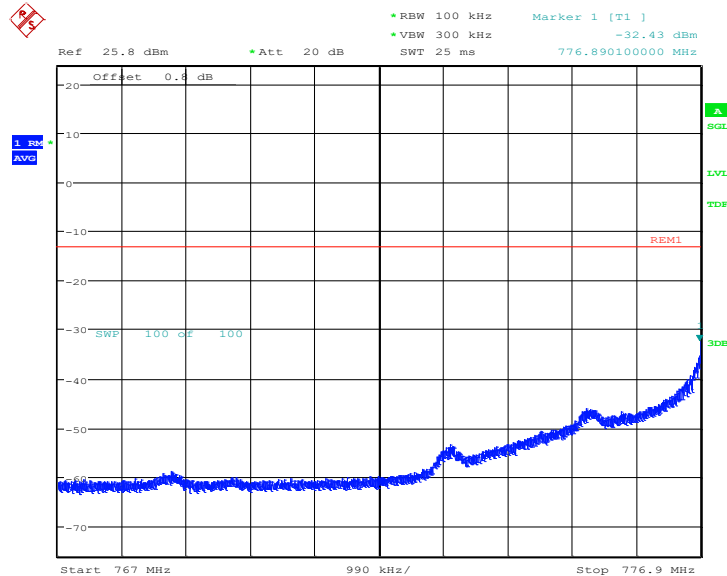
LTE band 13-5MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



Date: 5.MAR.2024 10:41:49

LOW BAND EDGE BLOCK-1RB-LOW_offset

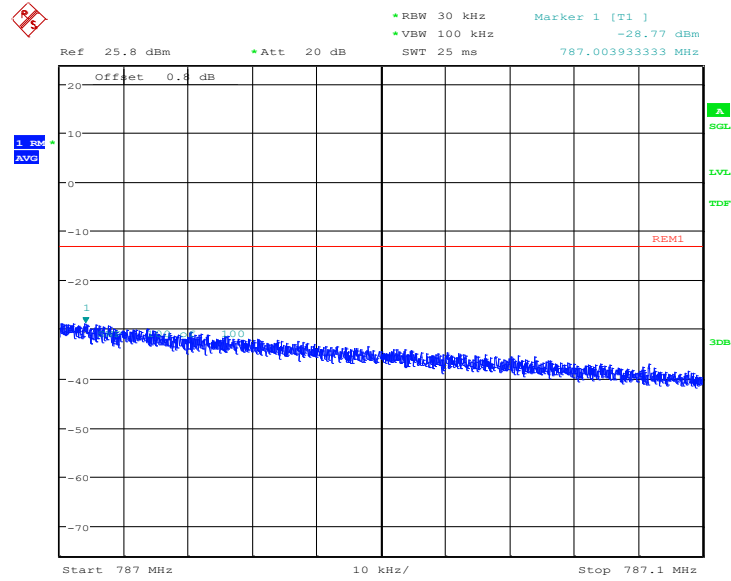


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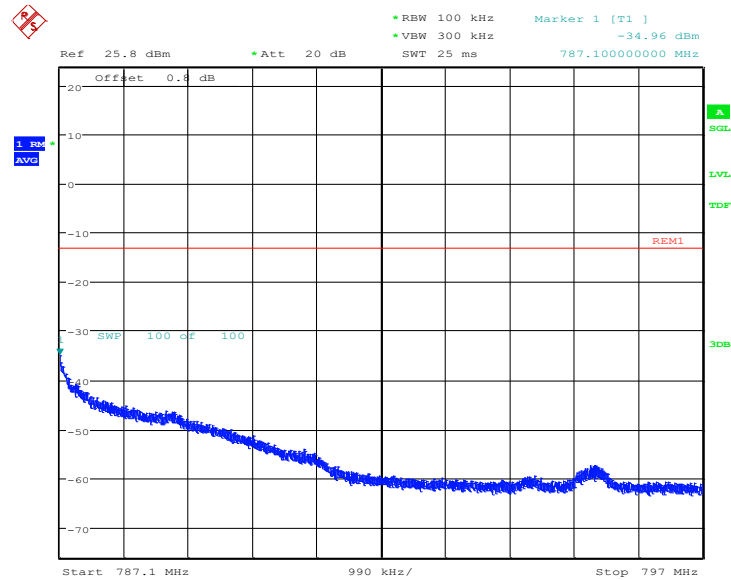
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 5.MAR.2024 10:45:17

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

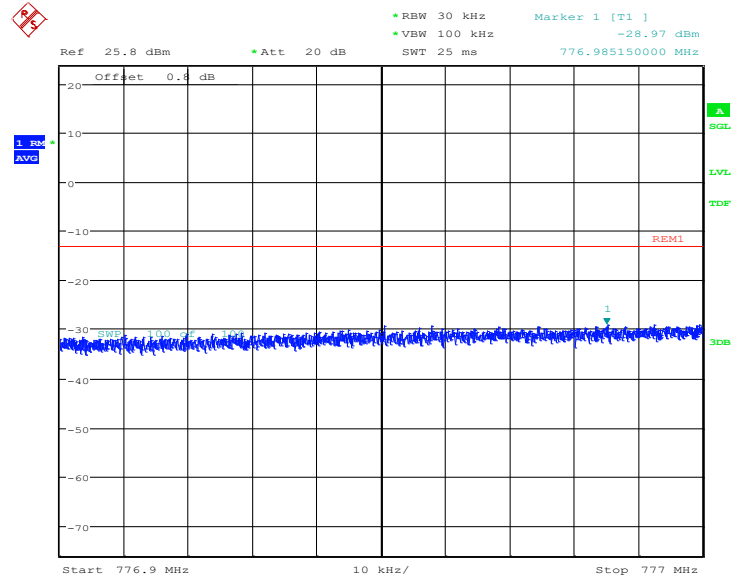


Date: 5.MAR.2024 10:46:07

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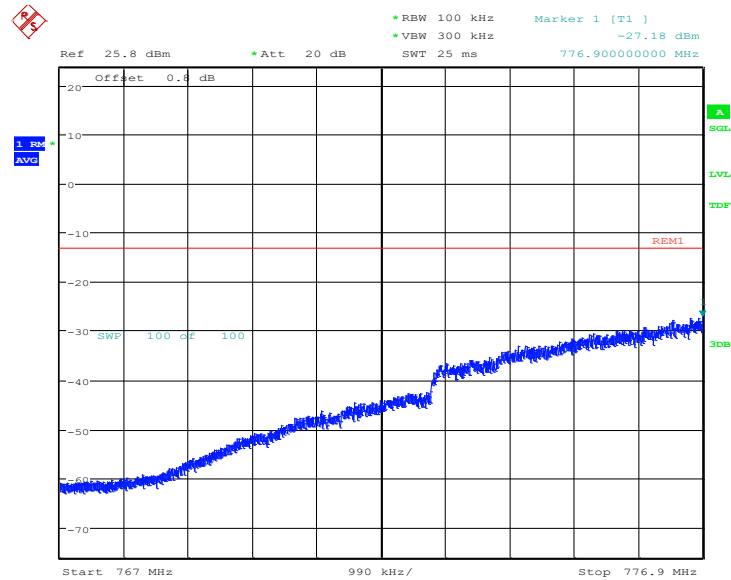
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LOW BAND EDGE BLOCK-5M-100%RB



Date: 5.MAR.2024 10:43:30

LOW BAND EDGE BLOCK-5M-100%RB

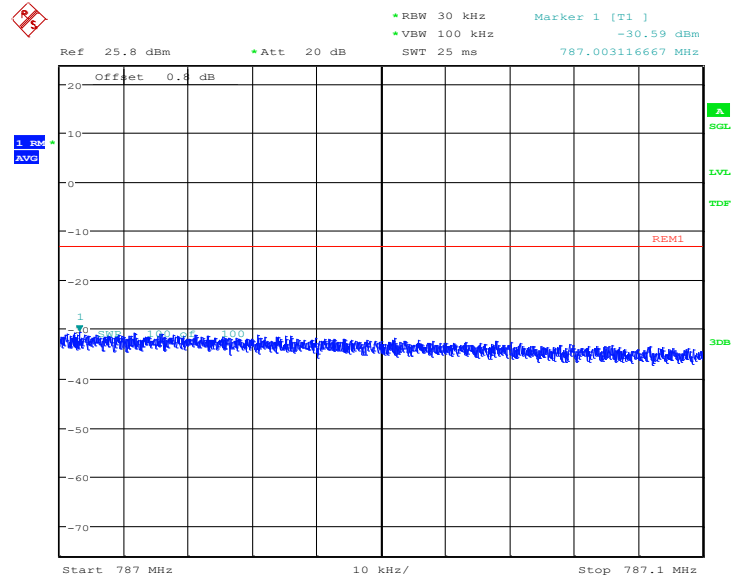


Date: 5.MAR.2024 10:44:21

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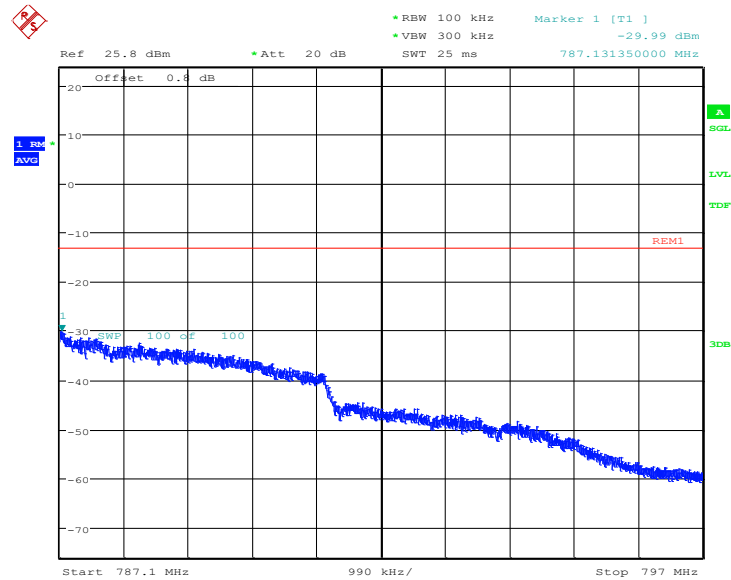
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HIGH BAND EDGE BLOCK-5M-100%RB



Date: 5.MAR.2024 10:46:58

HIGH BAND EDGE BLOCK-5M-100%RB



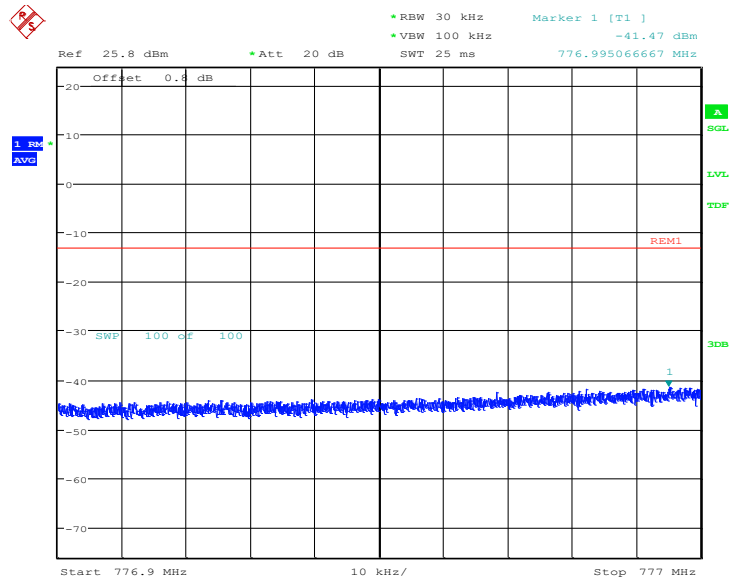
Date: 5.MAR.2024 10:47:48

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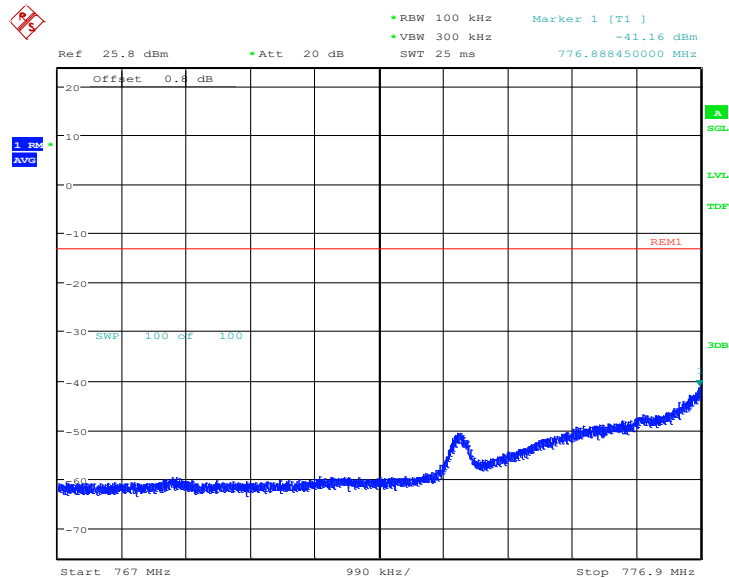
LTE band 13-10MHz

LOW BAND EDGE BLOCK-1RB-LOW_offset



Date: 5.MAR.2024 10:49:26

LOW BAND EDGE BLOCK-1RB-LOW_offset

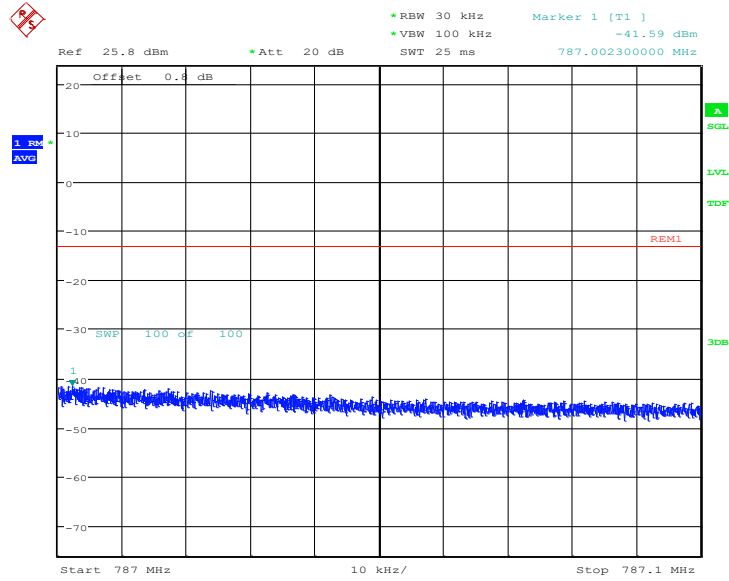


Date: 5.MAR.2024 10:50:16

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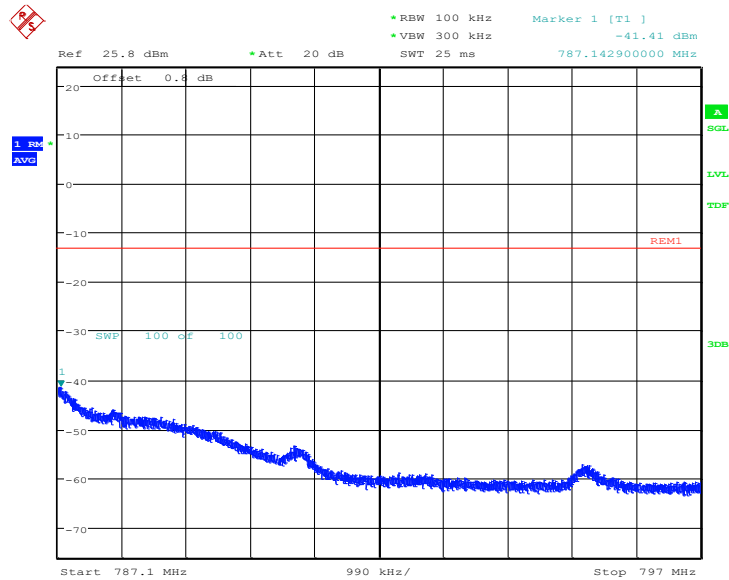
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Date: 5.MAR.2024 10:52:50

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

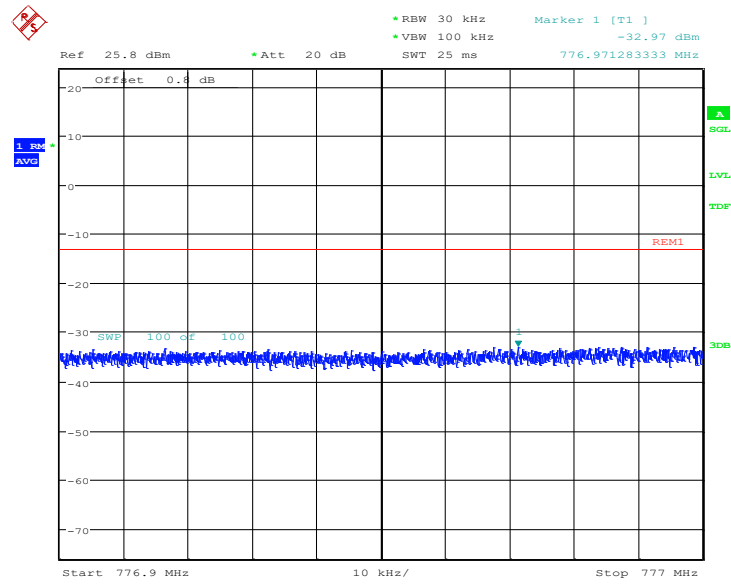


Date: 5.MAR.2024 10:53:40

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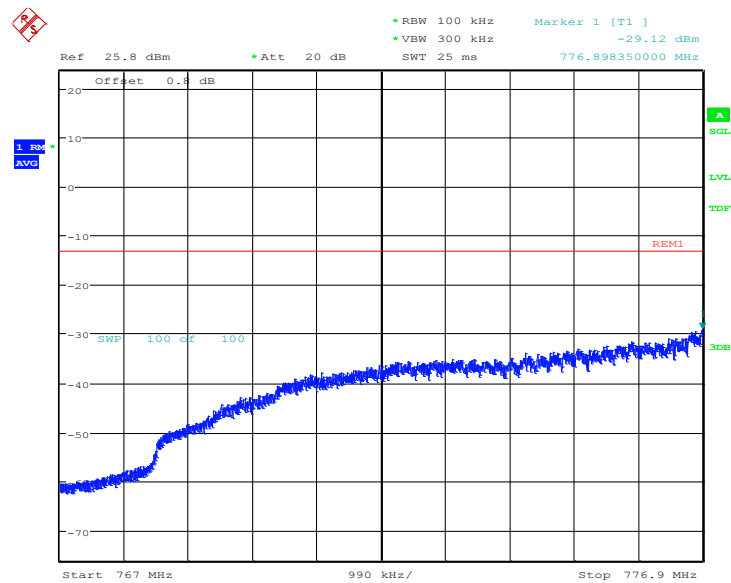
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LOW BAND EDGE BLOCK-10M-100%RB



Date: 5.MAR.2024 10:51:08

LOW BAND EDGE BLOCK-10M-100%RB

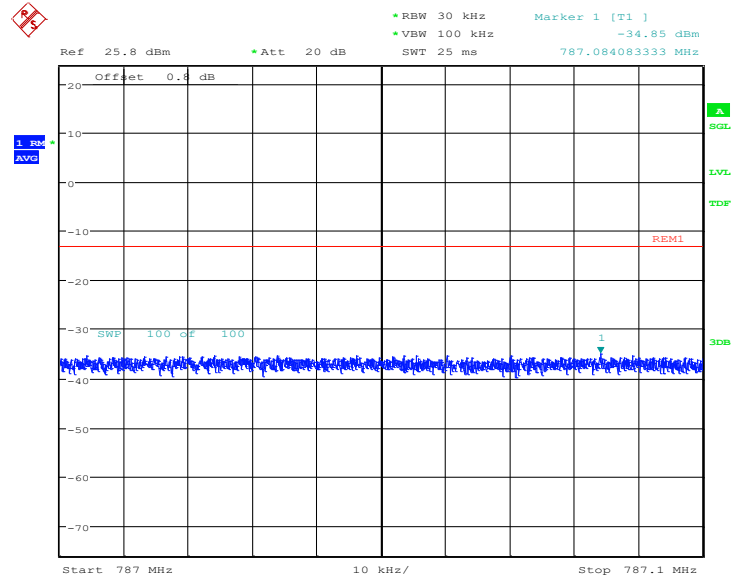


Date: 5.MAR.2024 10:51:58

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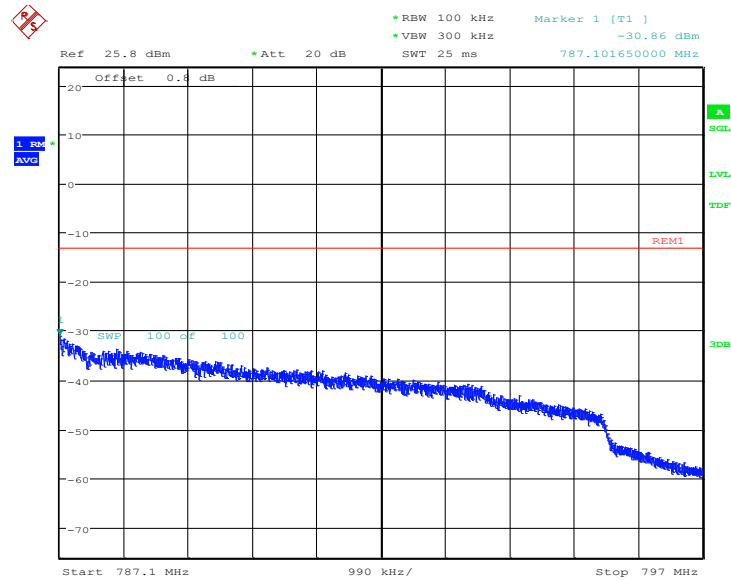
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HIGH BAND EDGE BLOCK-10M-100%RB



Date: 5.MAR.2024 10:54:31

HIGH BAND EDGE BLOCK-10M-100%RB



Date: 5.MAR.2024 10:55:21

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6.8. Frequency Stability

Specifications:	FCC Part 2.1055, 27.54
DUT Serial Number:	IMEI:866484030180649
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit	
Frequency deviation [ppm]	±2.5

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54 Hz (k=2)

Test Method

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as FL and FH respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.

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6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

6.8.1 Frequency Stability over Temperature Variation Results

LTE band 4, 20MHz bandwidth MID,QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1732.5	0.13	0.0001
50			-0.44	0.0003
40			0.10	0.0001
30			-0.17	0.0001
10			0.09	0.0000
0			0.00	0.0000
-10			0.13	0.0001
-20			-0.29	0.0002
-30			0.62	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1732.5	0.09	0.0000
4.2			0.64	0.0004

LTE band 13, 10MHz bandwidth MID,QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	782	-0.57	0.0007
50			-0.87	0.0011
40			-0.80	0.0010
30			-1.20	0.0015
10			-0.76	0.0010
0			-1.20	0.0015
-10			-0.69	0.0009
-20			-1.06	0.0014
-30			-0.24	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	Center frequency(MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	782	-1.30	0.0017
4.2			-0.53	0.0007

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6.9. Peak to Average Ratio

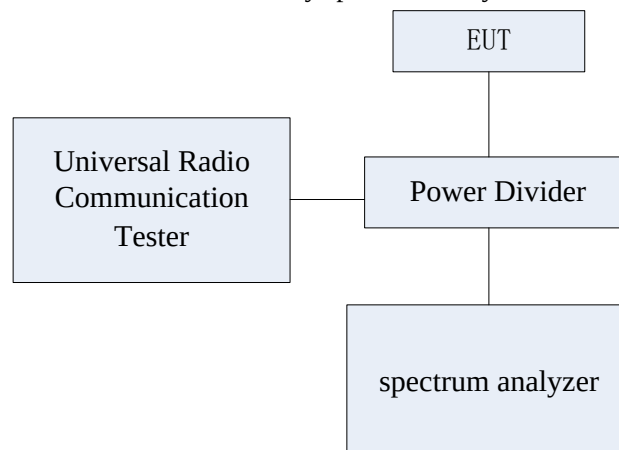
Specifications:	FCC Part 27.50
DUT Serial Number:	IMEI:866484030180649
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 27.50:In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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	0.22 dB (k=2)

Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

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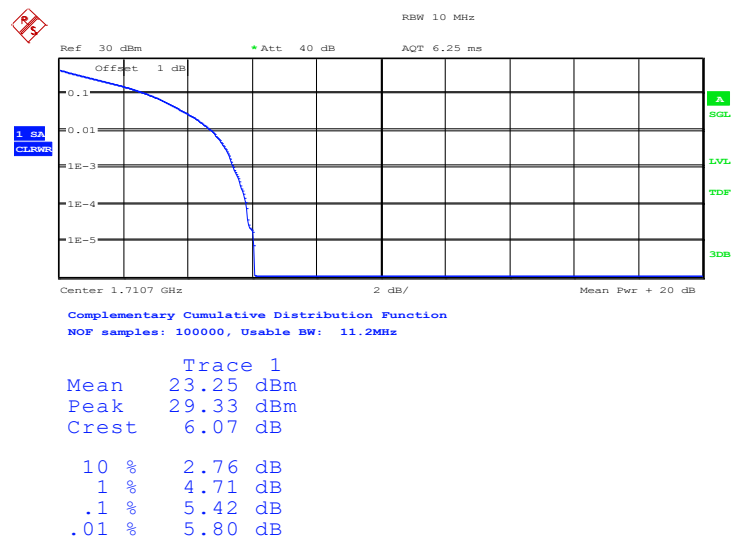
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

6.9.1 Peak to Average Ratio Results

LTE Band 4, BW1_4MHz

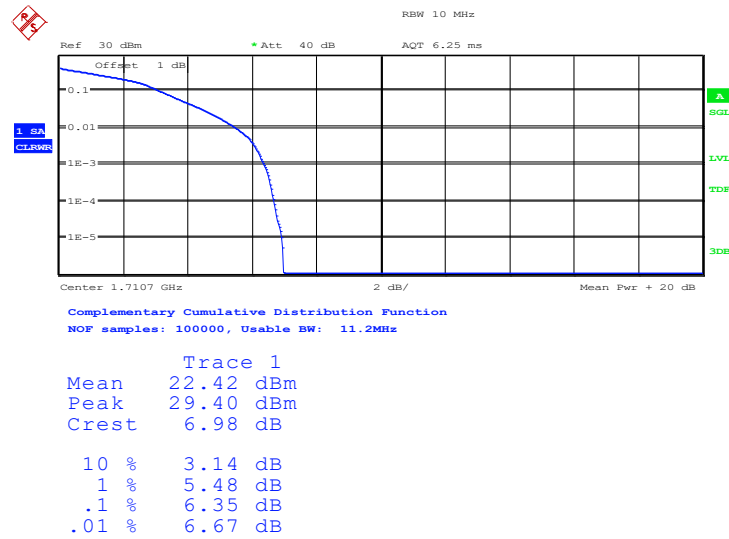
Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1710.7	100%,0	5.42	6.35
1732.5	100%,0	5.32	6.03
1754.3	100%,0	5.10	6.03

LTE band 4 , 1.4MHz Bandwidth,QPSK



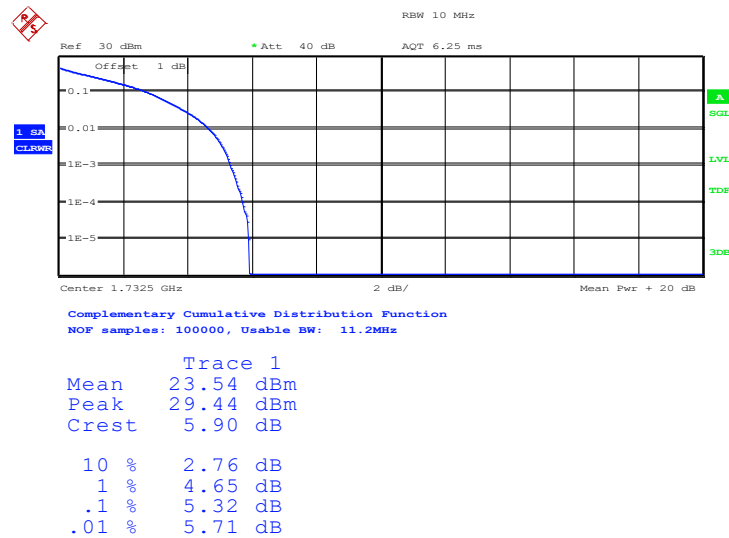
Date: 5.MAR.2024 11:10:26

LTE band 4 , 1.4MHz Bandwidth,16QAM



Date: 5.MAR.2024 12:16:36

LTE band 4 , 1.4MHz Bandwidth,QPSK

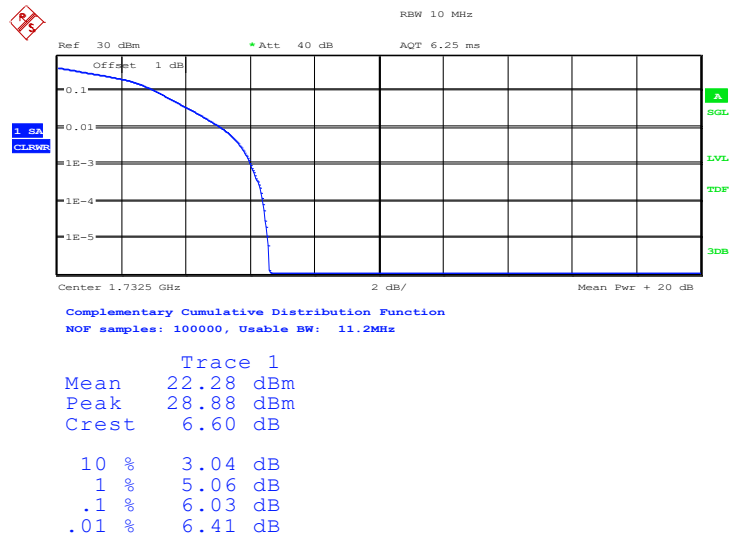


Date: 5.MAR.2024 11:11:05

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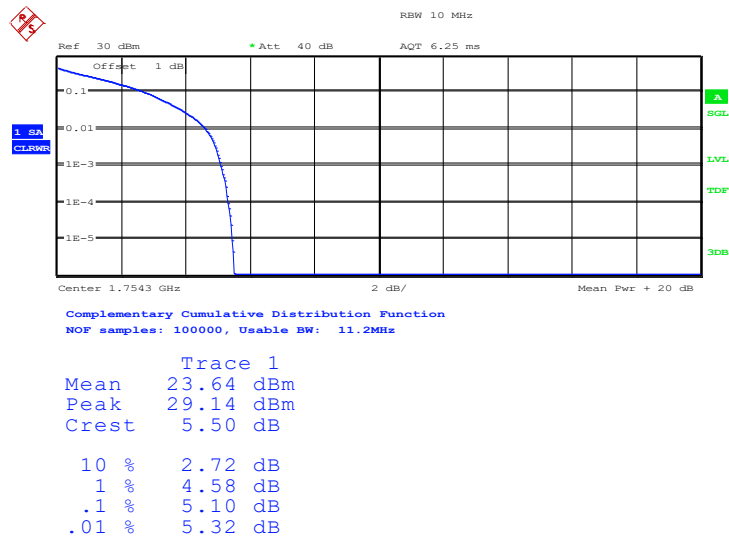
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LTE band 4 , 1.4MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:11:22

LTE band 4 , 1.4MHz Bandwidth,QPSK

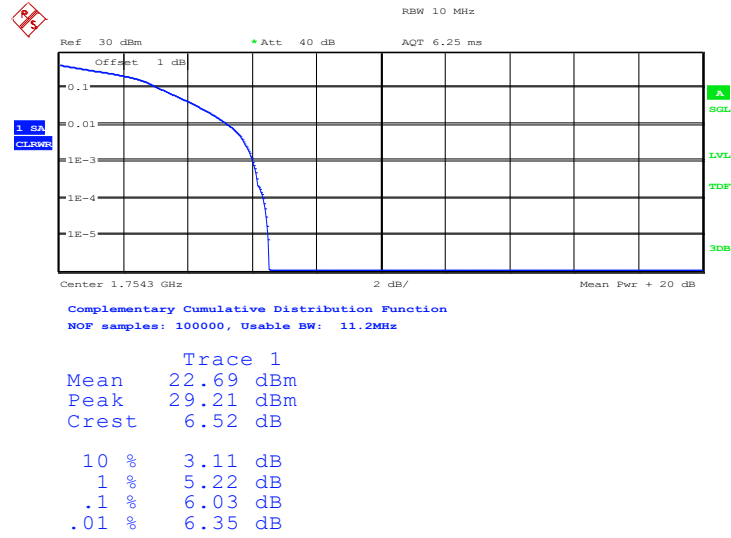


Date: 5.MAR.2024 11:11:40

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LTE band 4 , 1.4MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:11:54

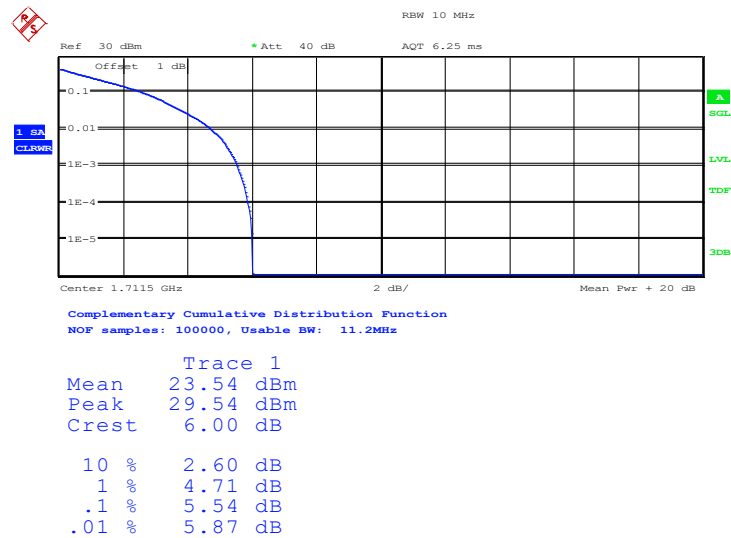
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LTE Band 4, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1711.5	100%,0	5.54	6.41
1732.5	100%,0	5.45	6.09
1753.5	100%,0	5.26	6.19

LTE band 4 , 3MHz Bandwidth,QPSK

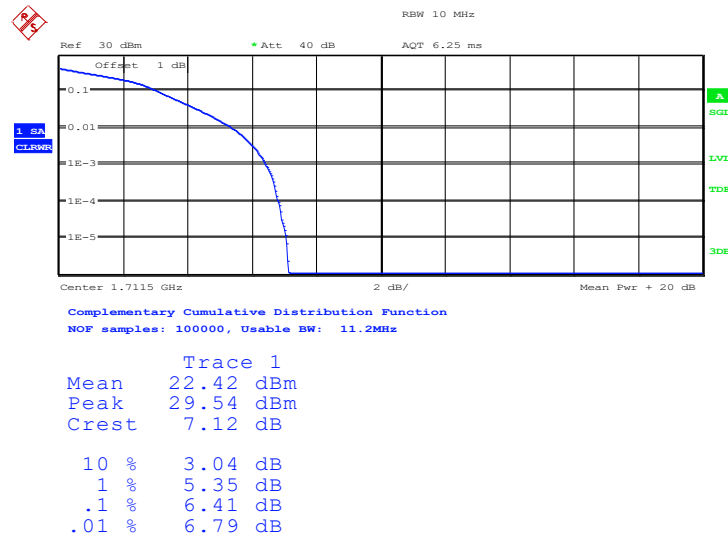


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Chongqing Academy of Information and Communication Technology

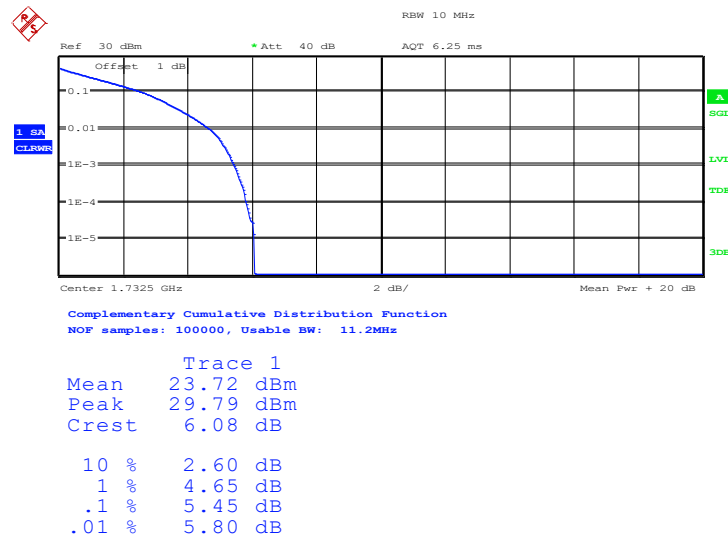
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LTE band 4 , 3MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:13:08

LTE band 4 , 3MHz Bandwidth,QPSK

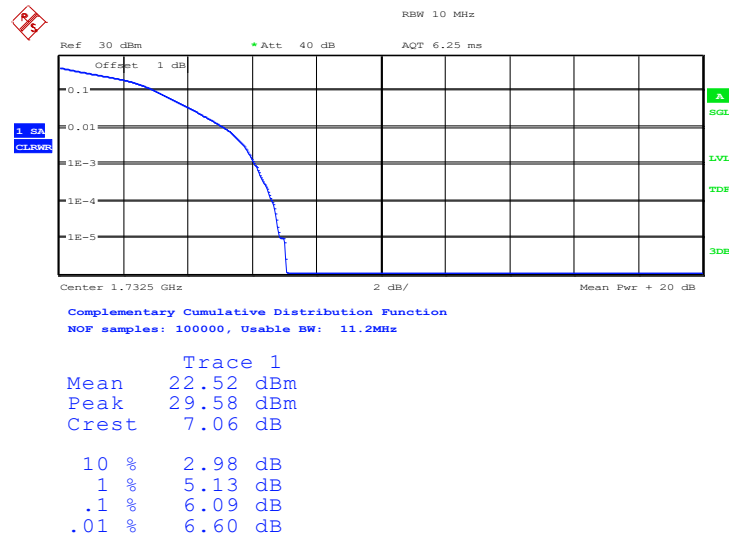


Date: 5.MAR.2024 11:13:29

Chongqing Academy of Information and Communication Technology

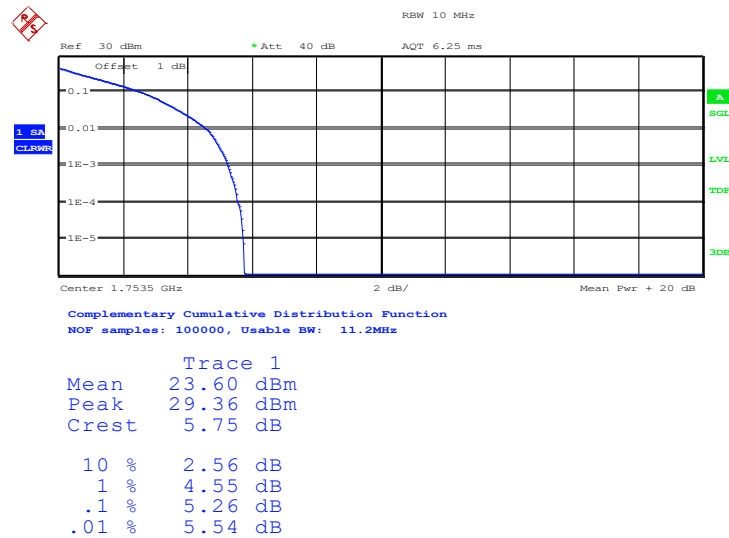
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 4 , 3MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:13:44

LTE band 4 , 3MHz Bandwidth,QPSK

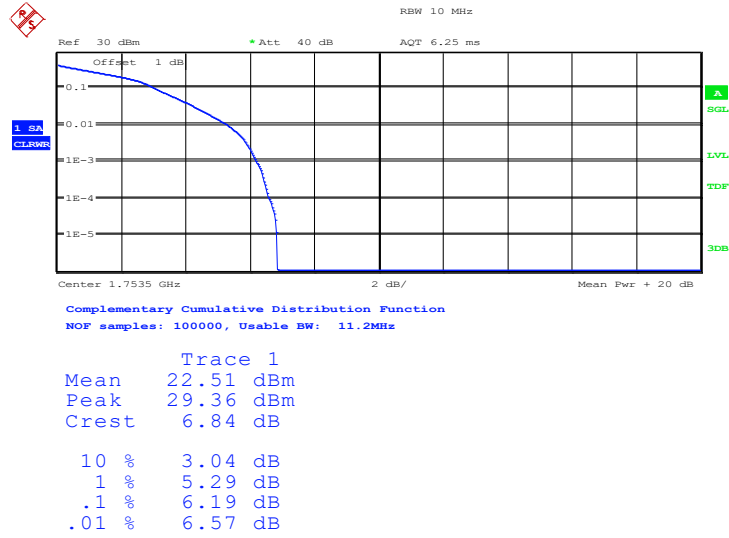


Date: 5.MAR.2024 11:14:04

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LTE band 4 , 3MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:14:19

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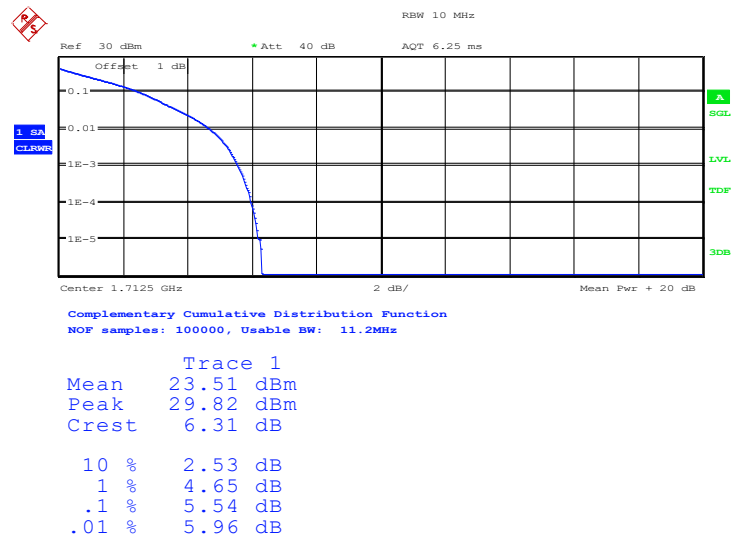
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965

FAX:0086-23-88608777

LTE Band 4, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1712.5	100%,0	5.54	6.38
1732.5	100%,0	5.32	6.03
1752.5	100%,0	5.35	6.22

LTE band 4 , 5MHz Bandwidth,QPSK

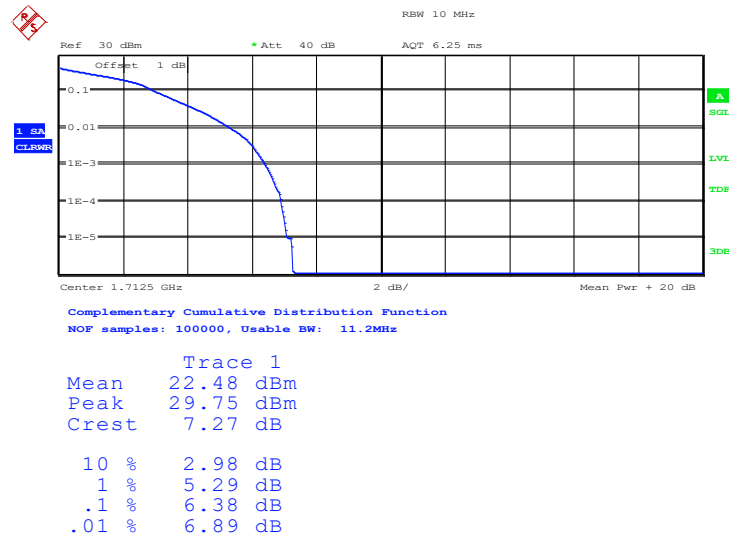


Date: 5.MAR.2024 11:15:22

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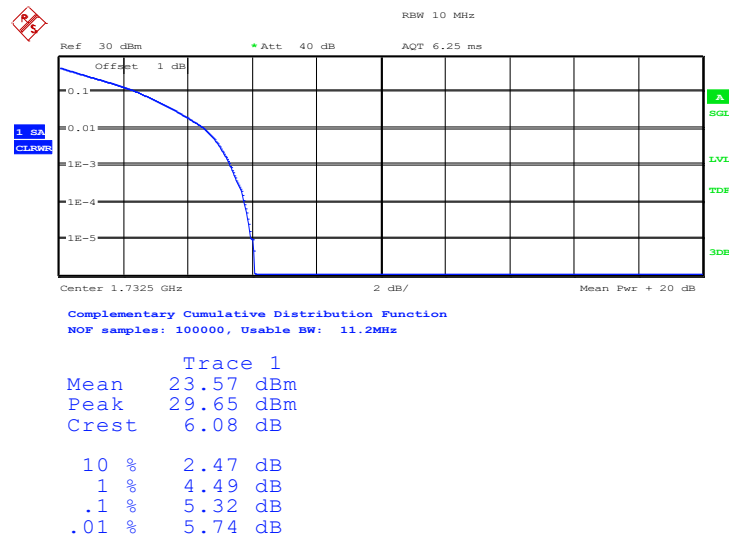
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LTE band 4 , 5MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:15:35

LTE band 4 , 5MHz Bandwidth,QPSK

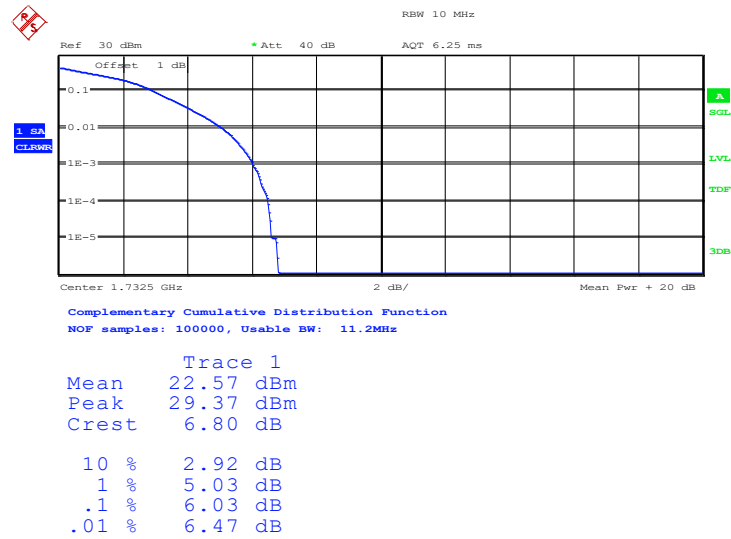


Date: 5.MAR.2024 11:15:52

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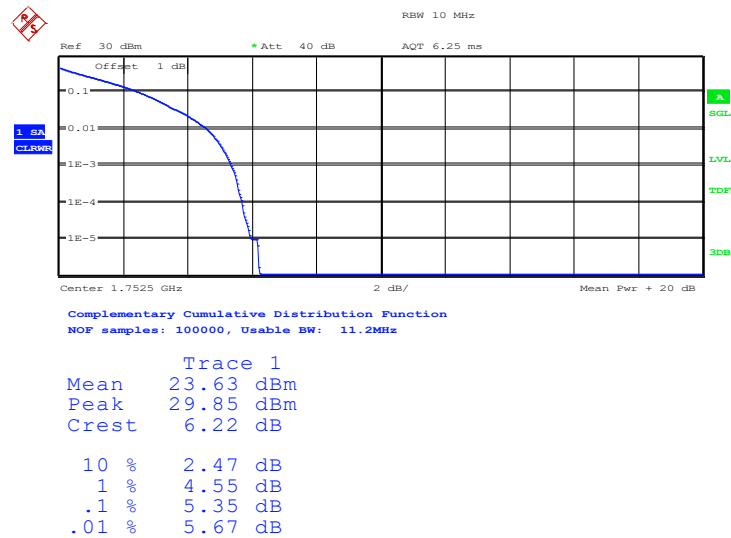
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LTE band 4 , 5MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:16:10

LTE band 4 , 5MHz Bandwidth,QPSK

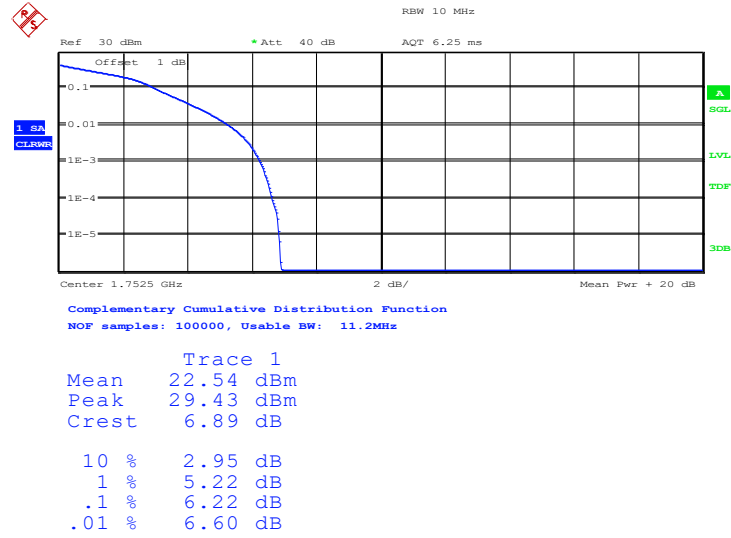


Date: 5.MAR.2024 11:16:28

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LTE band 4 , 5MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:16:47

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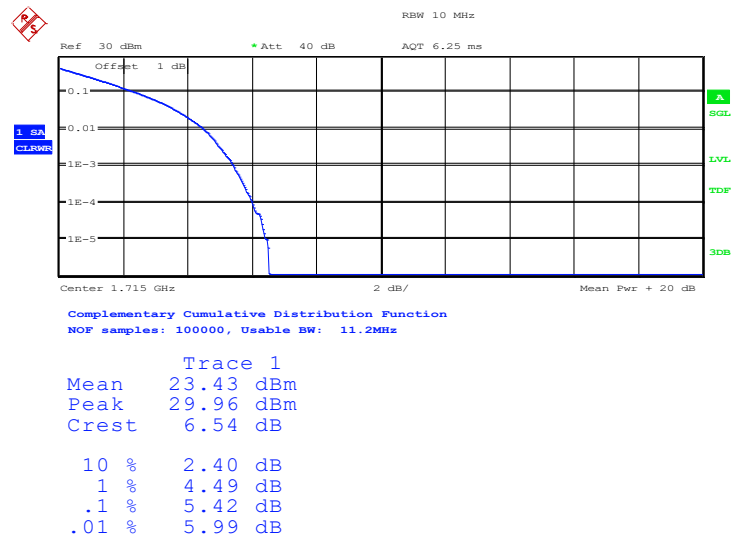
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Tel: 0086-23-88069965

FAX:0086-23-88608777

LTE Band 4, 10MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
1715	100%,0	5.42
1732.5	100%,0	5.22
1750	100%,0	5.22

LTE band 4 , 10MHz Bandwidth,QPSK

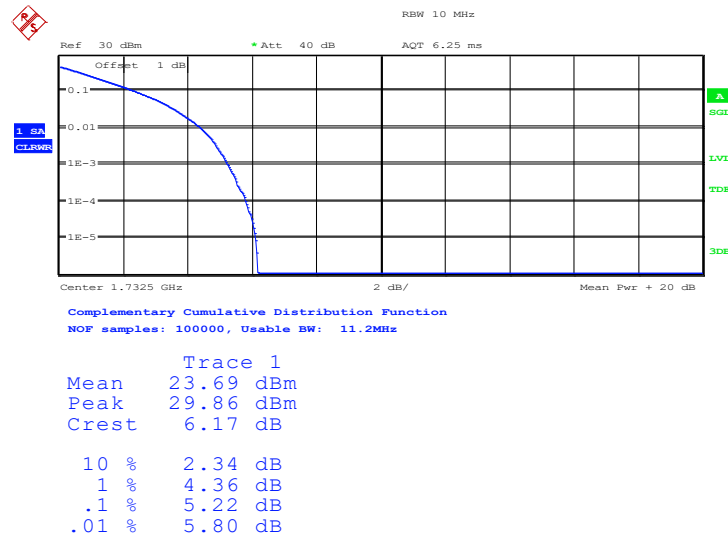


Date: 5.MAR.2024 11:17:46

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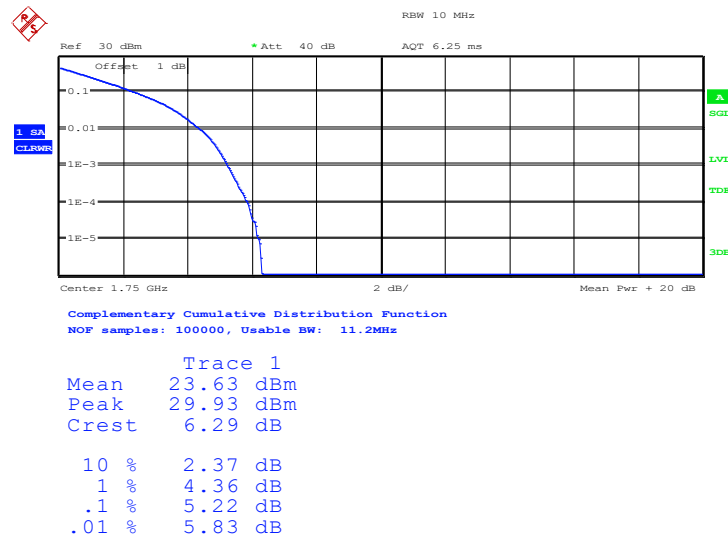
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE band 4 , 10MHz Bandwidth,QPSK



Date: 5.MAR.2024 12:17:35

LTE band 4 , 10MHz Bandwidth,QPSK



Date: 5.MAR.2024 11:18:42

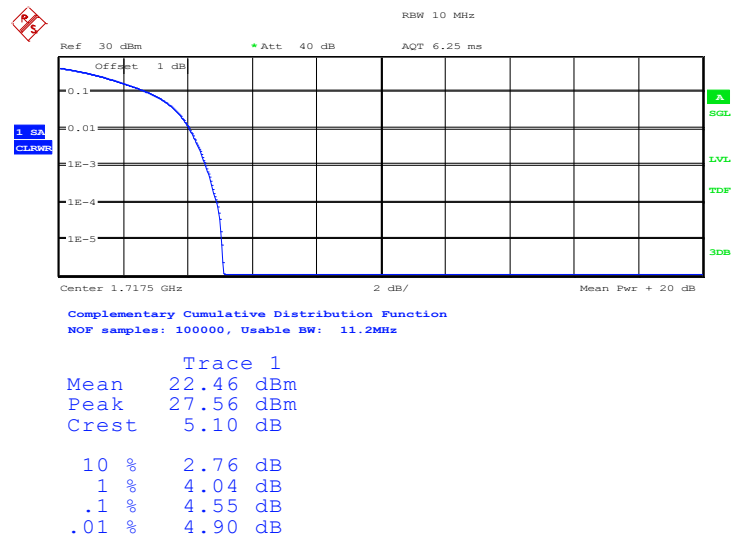
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE Band 4, 15MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
1717.5	100%,0	4.55
1732.5	100%,0	4.46
1747.5	100%,0	4.49

LTE band 4 , 15MHz Bandwidth,QPSK

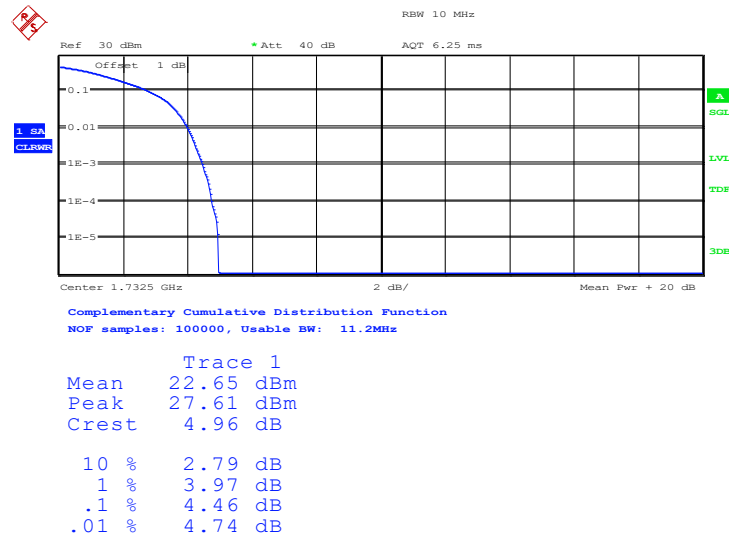


Date: 5.MAR.2024 11:19:41

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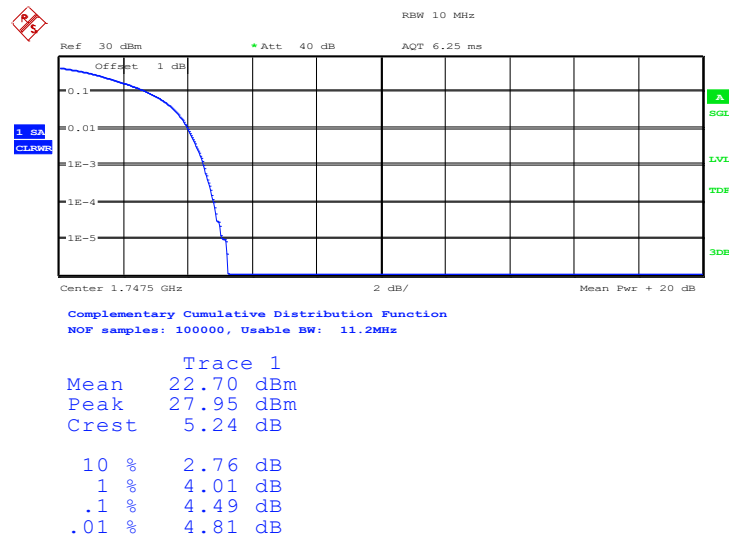
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LTE band 4 , 15MHz Bandwidth,QPSK



Date: 5.MAR.2024 11:20:00

LTE band 4 , 15MHz Bandwidth,QPSK



Date: 5.MAR.2024 11:20:17

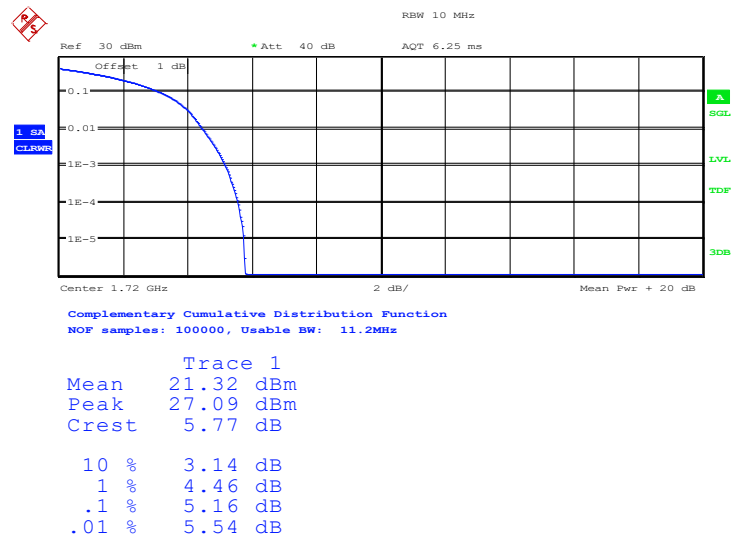
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LTE Band 4, 20MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
1720	100%,0	5.16
1732.5	100%,0	5.10
1745	100%,0	5.13

LTE band 4 , 20MHz Bandwidth,QPSK

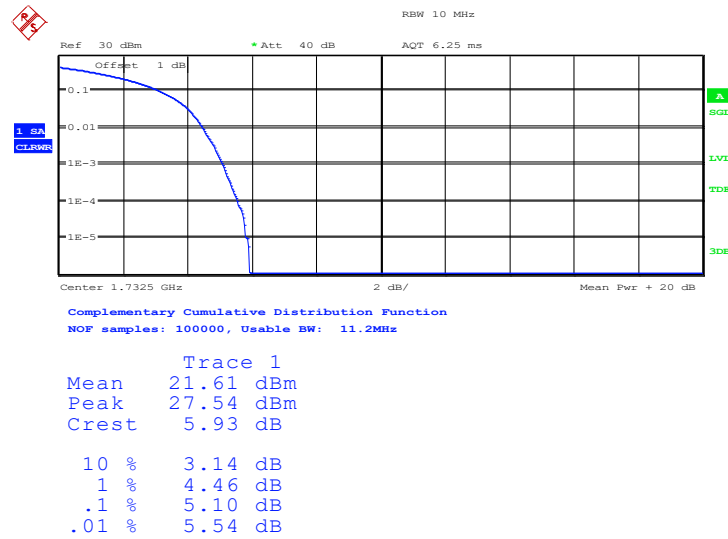


Date: 5.MAR.2024 11:21:21

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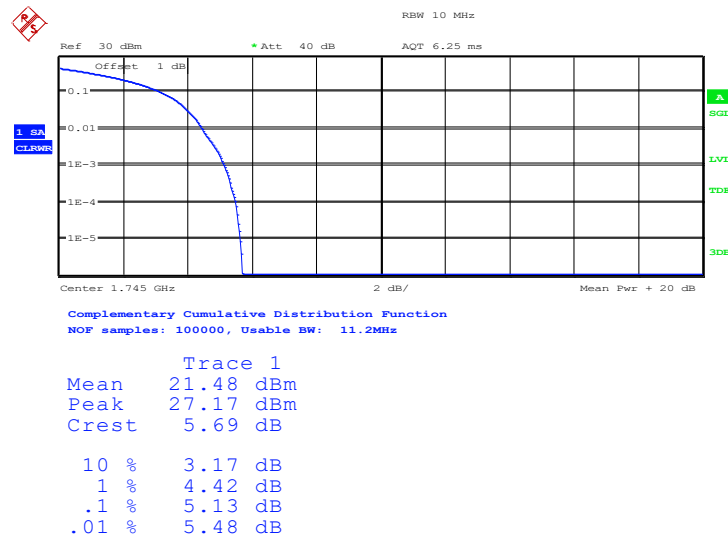
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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LTE band 4 , 20MHz Bandwidth,QPSK



Date: 5.MAR.2024 11:21:39

LTE band 4 , 20MHz Bandwidth,QPSK



Date: 5.MAR.2024 11:21:59

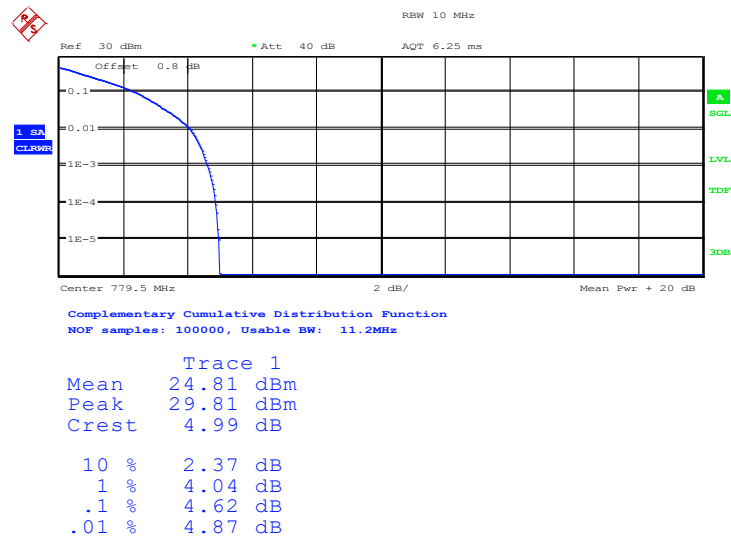
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE Band 13, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
779.5	100%,0	4.62	5.42
782	100%,0	4.87	5.71
784.5	100%,0	4.90	5.71

LTE band 13 , 5MHz Bandwidth,QPSK

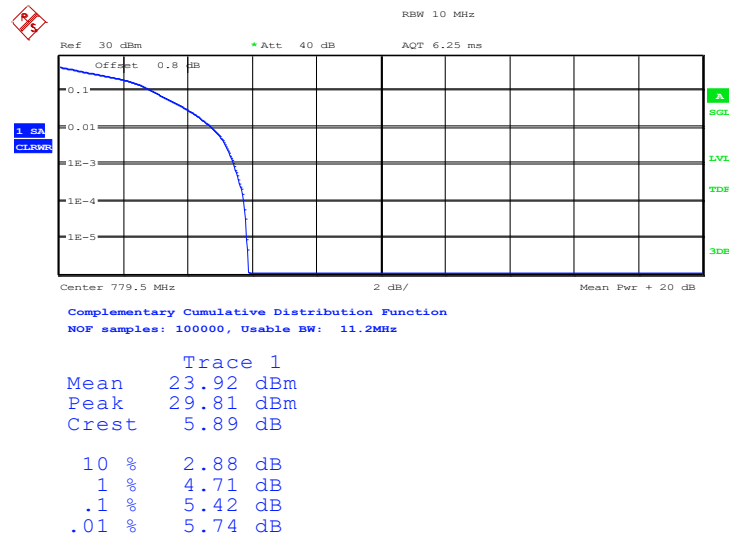


Date: 5.MAR.2024 11:23:00

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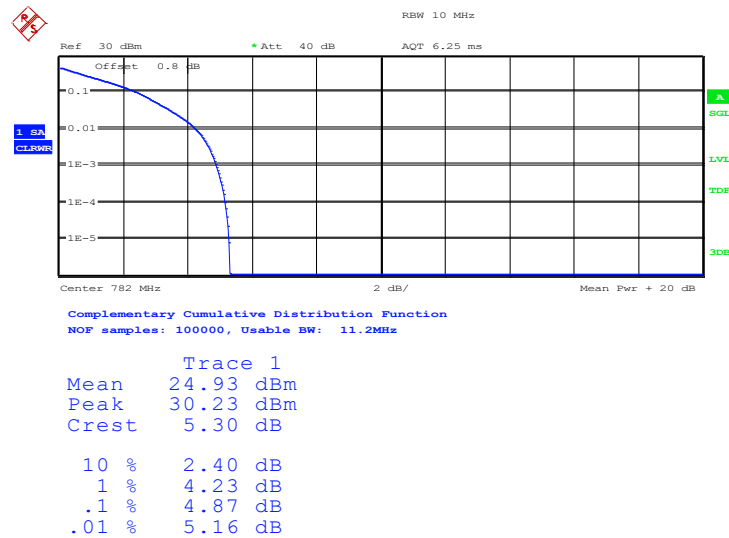
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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LTE band 13 , 5MHz Bandwidth,16QAM



Date: 5.MAR.2024 11:23:18

LTE band 13 , 5MHz Bandwidth,QPSK

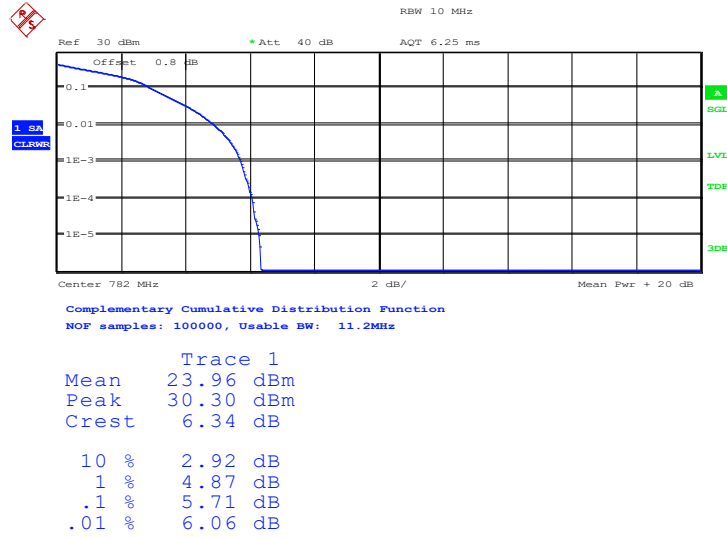


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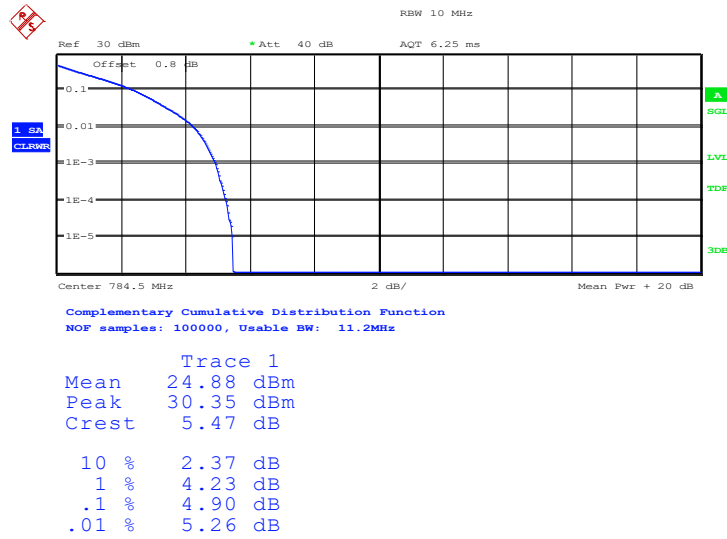
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LTE band 13 , 5MHz Bandwidth,16QAM



Date: 5.MAR.2024 12:26:54

LTE band 13 , 5MHz Bandwidth,QPSK

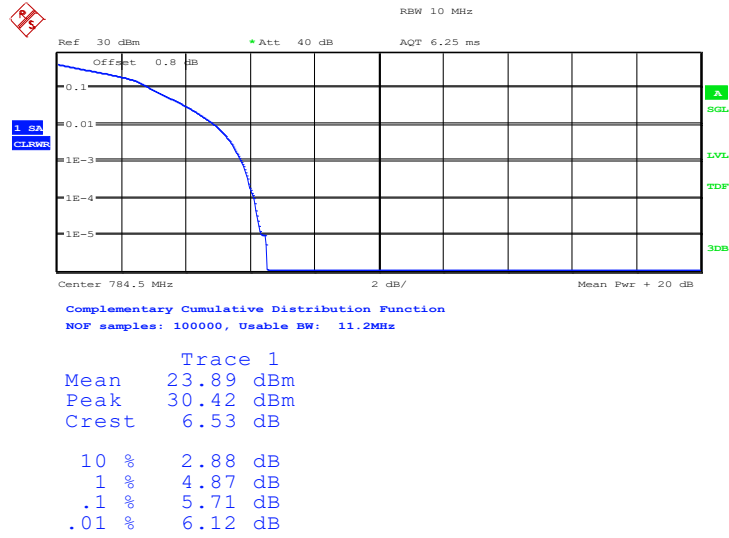


Date: 5.MAR.2024 12:27:11

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LTE band 13 , 5MHz Bandwidth,16QAM



Date: 5.MAR.2024 12:27:26

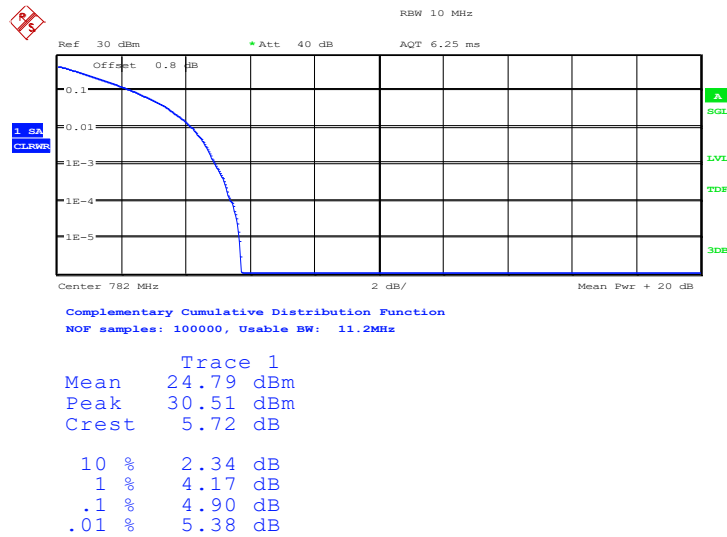
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Tel: 0086-23-88069965 FAX:0086-23-88608777

LTE Band 13, 10MHz

Frequency (MHz)	RB	PAPR (dB)
		QPSK
782	100%,0	4.90

LTE band 13 , 10MHz Bandwidth,QPSK



Date: 5.MAR.2024 12:28:26



Report No.: 24B02W000008-001

ANNEX A EUT Photos

See the document” 24B02W000008-External Photos”.

See the document” 24B02W000008-Internal Photos ”.

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Report No.: 24B02W000008-001

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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