



LTE TEST REPORT

No.24T04Z102996-005

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T705M

FCC ID: 2ACCJH184

with

Hardware Version: 03

Software Version: 8K3H

Issued Date: 2025-01-20

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 CTTL.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z102996-005	Rev.0	1 st edition	2025-01-20

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

Location 2: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35℃

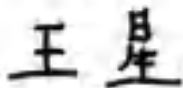
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2024-12-19

Testing End Date: 2025-01-16

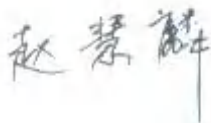
1.5. Signature



Wang Xing
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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Email: ting.wang.hz@tcl.com
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
Contact: Ting Wang
Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091

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

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T705M
FCC ID	2ACCJH184
Antenna	Embedded
Output power	24.57 dBm maximum EIRP measured for LTE B41
Extreme Voltage	3.6VDC to 4.4VDC (nominal: 3.85VDC)
Extreme Temperature	-10°C to +55°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT14a	016658000010337/	03	8K3H	2024-12-19
	016658000010428			
UT47a	016658000010634/	03	8K3H	2025-01-03
	016658000010642			

UT47a were used for emission limit test and UT14a was used for other testing cases.

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE1	
Model	TLp049F7(CAC4900013C7)
Manufacturer	VEKEN
Capacitance	5010mAh

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

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-23 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-23 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-23 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-23 Edition
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-23 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR CITIZENS BROADBAND RADIO SERVICE DEVICES AUTHORIZED UNDER PART 96	v03

5. Summary of Test Result

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 12 (17)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 13

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 14

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.542	P
2	Emission Limit	2.1051/90.543	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	2.1049	P
6	Band Edge Compliance	90.543	P
7	Conducted Spurious Emission	90.543	P

LTE Band 25 (2)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232	BR
2	Emission Limit	2.1051/24.238	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	24.238	BR
6	Band Edge Compliance	24.238	BR
7	Conducted Spurious Emission	24.238	BR
8	Peak-to-Average Power Ratio	24.232	BR

LTE Band 26(814MHz~824MHz)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.635	BR
2	Emission Limit	2.1051/90.691	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	2.1049	BR
6	Band Edge Compliance	90.691	BR
7	Conducted Spurious Emission	90.691	BR

LTE Band 26(824MHz~849MHz) (5)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	22.913	BR
2	Emission Limit	2.1051/22.917	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	22.917	BR
6	Band Edge Compliance	22.917	BR
7	Conducted Spurious Emission	22.917	BR

LTE Band 30

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 41 (38)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 48

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	96.41	P
2	Emission Limit	96.41	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	96.41	P
6	Band Edge Compliance	96.41	P
7	Conducted Spurious Emission	96.41	P
8	Peak-to-Average Power Ratio	96.41	P

LTE Band 66 (4)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 71

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
2	Emission Limit	2.1051/27.53	BR
3	Frequency Stability	2.1055	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

All the test results are based on normal power.

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

LTE Band 25, Band 66, Band 26, Band 12 and Band 41 overlaps the entire frequency range of LTE Band 2, Band 4, Band 5, Band 17 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 17, Band 38 as well as Band 25, Band 66, Band 26, Band 12, Band 41.

LTE Band 41 is tested by power class 2.

LTE Band 48 is tested by power class 3.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM, 64QAM and 256QAM 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.

The Equipment Under Test (EUT) model T705M (FCC ID: 2ACCJH184) is a variant product of T705J (FCC ID: 2ACCJH184), according to the declaration of changes provided by the applicant and FCC KDB publication 178919 D01, Band 41C, 48C and newly added UL-CA were tested, other test results are derived from test report No. 24T04Z102806-003. Please refer Annex A for detail spot check verification data and reference data. The spot check test results are consistent with basic model.

For detail differences between two models please refer the Declaration of Changes document.

6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2025-12-03	1 year
Spectrum Analyzer	FSU	200030	R&S	2025-05-08	1 year
Test Receiver	FSV30	101576	R&S	2025-05-08	1 Year
Signal&Spectrum Analyzer	FSW	104038	R&S	2025-07-02	1 year
Climate chamber	SH-241	92004642	ESPEC	2025-10-29	1 year
Test Receiver	FSV30	101525	R&S	2025-01-18	1 year
EMI Antenna	VULB 9163	9163-482	Schwarzbeck	2025-05-19	1 year
EMI Antenna	9117	167	Schwarzbeck	2025-10-15	1 year
EMI Antenna	LB-7180-NF	J2030013000005	A-INFO	2025-05-16	1 year
EMI Antenna	3115	00146404	ETS-Lindgren	2025-05-16	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2025-01-18	1 year
Signal Generator	SMF100A	101295	R&S	2025-02-04	1 year

Note: Only the latest Cal Due Dates of equipment are listed above and all equipment is in valid calibration period when used.

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.2.2 Measurement Result

Measurement Results from UT14a:

LTE band 14

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	795.5	23.11	22.07	21.31	18.20
		793.0	23.10	22.16	21.31	18.20
		790.5	23.11	21.98	21.08	17.82
	1 RB low	795.5	23.09	22.12	21.35	18.26
		793.0	23.14	22.10	21.37	18.19
		790.5	23.22	22.01	21.02	17.92
	50% RB mid	795.5	22.08	21.14	20.27	18.19
		793.0	22.05	21.19	20.26	18.22
		790.5	22.08	21.16	20.19	18.22
	100% RB	795.5	22.14	21.06	20.16	18.16
		793.0	22.12	21.08	20.20	18.18
		790.5	22.16	21.09	20.24	18.21
10MHz	1 RB high	793.0	23.12	22.11	21.08	18.20
	1 RB low	793.0	23.23	22.19	20.89	18.30
	50% RB mid	793.0	22.17	21.24	20.22	18.22
	100% RB	793.0	22.19	21.21	20.19	18.17

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.32	22.70	21.99	18.64
		3625.0	22.94	22.36	21.61	18.23
		3552.5	22.76	21.85	20.82	18.05
	1 RB low	3697.5	23.32	22.67	21.94	18.62
		3625.0	22.93	22.32	21.54	18.23
		3552.5	22.75	21.83	21.00	18.03
	50% RB mid	3697.5	22.47	21.59	20.49	18.41
		3625.0	22.03	21.12	20.04	17.99
		3552.5	21.80	20.90	19.75	17.75
	100% RB	3697.5	22.50	21.50	20.39	18.41
		3625.0	22.06	21.06	19.94	17.96
		3552.5	21.83	20.82	19.71	17.75
10MHz	1 RB high	3695.0	23.35	22.58	21.45	18.57
		3625.0	23.05	22.26	21.10	18.20
		3555.0	22.77	22.04	20.86	17.98
	1 RB low	3695.0	23.31	22.56	21.58	18.51
		3625.0	22.94	22.25	21.20	18.20
		3555.0	22.73	22.00	20.98	17.94
	50% RB mid	3695.0	22.43	21.45	20.35	18.38
		3625.0	22.05	21.04	19.97	18.00
		3555.0	21.84	20.87	19.71	17.80
	100% RB	3695.0	22.42	21.46	20.38	18.38
		3625.0	22.04	21.07	19.98	17.97
		3555.0	21.84	20.86	19.79	17.79
15MHz	1 RB high	3692.5	23.33	22.63	21.71	18.65
		3625.0	23.03	22.29	21.34	18.30
		3557.5	22.80	22.07	21.12	18.09
	1 RB low	3692.5	23.23	22.52	21.71	18.54
		3625.0	22.87	22.21	21.36	18.23
		3557.5	22.69	21.97	21.17	17.99
	50% RB mid	3692.5	22.38	21.40	20.37	18.33
		3625.0	21.99	21.02	19.97	17.96
		3557.5	21.80	20.83	19.78	17.75
	100% RB	3692.5	22.38	21.41	20.41	18.38
		3625.0	22.00	21.02	20.01	18.03
		3557.5	21.81	20.82	19.81	17.84
20MHz	1 RB high	3690.0	23.40	22.70	21.72	18.87
		3625.0	23.10	22.37	21.39	18.51

	1 RB low	3560.0	22.85	22.17	21.17	18.29
		3690.0	23.27	22.61	21.63	18.73
		3625.0	22.95	22.32	21.29	18.46
		3560.0	22.77	22.09	21.09	18.20
	50% RB mid	3690.0	22.42	21.42	20.42	18.38
		3625.0	22.06	21.08	20.02	18.02
		3560.0	21.89	20.90	19.89	17.86
	100% RB	3690.0	22.38	21.37	20.39	18.38
		3625.0	22.02	21.01	20.02	18.02
		3560.0	21.85	20.85	19.87	17.86

LTE CA band 41C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	23.36
			QPSK	25	0	100	0	21.46
			16QAM	1	24	1	0	22.42
			16QAM	25	0	100	0	20.45
			64QAM	1	24	1	0	20.30
			64QAM	25	0	100	0	20.44
			256QAM	1	24	1	0	18.42
			256QAM	25	0	100	0	18.42
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.45
			QPSK	50	0	75	0	21.50
			16QAM	1	49	1	0	22.48
			16QAM	50	0	75	0	20.50
			64QAM	1	49	1	0	20.21
			64QAM	50	0	75	0	20.51
			256QAM	1	49	1	0	18.40
			256QAM	50	0	75	0	18.50
10MHz/20MHz	2583.6	2598.0	QPSK	1	49	1	0	23.48
			QPSK	50	0	100	0	21.49
			16QAM	1	49	1	0	22.50
			16QAM	50	0	100	0	20.50
			64QAM	1	49	1	0	20.23
			64QAM	50	0	100	0	20.48
			256QAM	1	49	1	0	18.43
			256QAM	50	0	100	0	18.52
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.51
			QPSK	75	0	50	0	21.51
			16QAM	1	74	1	0	22.63
			16QAM	75	0	50	0	20.46
			64QAM	1	74	1	0	20.26
			64QAM	75	0	50	0	20.47
			256QAM	1	74	1	0	18.53
			256QAM	75	0	50	0	18.49
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.51
			QPSK	75	0	75	0	21.46
			16QAM	1	74	1	0	22.29
			16QAM	75	0	75	0	20.49
			64QAM	1	74	1	0	20.52
			64QAM	75	0	75	0	20.46
			256QAM	1	74	1	0	18.51

			256QAM	75	0	75	0	18.48
15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.50
			QPSK	75	0	100	0	21.46
			16QAM	1	74	1	0	22.52
			16QAM	75	0	100	0	20.50
			64QAM	1	74	1	0	20.58
			64QAM	75	0	100	0	20.51
			256QAM	1	74	1	0	18.71
			256QAM	75	0	100	0	18.45
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	23.44
			QPSK	100	0	25	0	21.51
			16QAM	1	99	1	0	22.33
			16QAM	100	0	25	0	20.45
			64QAM	1	99	1	0	20.22
			64QAM	100	0	25	0	20.39
			256QAM	1	99	1	0	18.67
			256QAM	100	0	25	0	18.50
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.51
			QPSK	100	0	50	0	21.53
			16QAM	1	99	1	0	22.44
			16QAM	100	0	50	0	20.54
			64QAM	1	99	1	0	20.64
			64QAM	100	0	50	0	20.51
			256QAM	1	99	1	0	18.39
			256QAM	100	0	50	0	18.49
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	23.55
			QPSK	100	0	75	0	21.53
			16QAM	1	99	1	0	22.69
			16QAM	100	0	75	0	20.48
			64QAM	1	99	1	0	20.66
			64QAM	100	0	75	0	20.55
			256QAM	1	99	1	0	18.52
			256QAM	100	0	75	0	18.47
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	23.58
			QPSK	100	0	100	0	21.49
			16QAM	1	99	1	0	22.58
			16QAM	100	0	100	0	20.53
			64QAM	1	99	1	0	20.68
			64QAM	100	0	100	0	20.47
			256QAM	1	99	1	0	18.45
			256QAM	100	0	100	0	18.52

LTE CA band 48C

Bandwidth	Frequency(MHz)	Frequency(MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	3615.8	3627.5	QPSK	1	24	1	0	22.13
			QPSK	25	0	100	0	20.21
			16QAM	1	24	1	0	21.21
			16QAM	25	0	100	0	19.21
			64QAM	1	24	1	0	19.14
			64QAM	25	0	100	0	19.20
			256QAM	1	24	1	0	17.21
			256QAM	25	0	100	0	17.19
10MHz/20MHz	3615.6	3630.0	QPSK	1	49	1	0	22.13
			QPSK	50	0	100	0	20.22
			16QAM	1	49	1	0	21.19
			16QAM	50	0	100	0	19.23
			64QAM	1	49	1	0	18.91
			64QAM	50	0	100	0	19.25
			256QAM	1	49	1	0	17.17
			256QAM	50	0	100	0	17.26
15MHz/20MHz	3615.3	3632.4	QPSK	1	74	1	0	22.12
			QPSK	75	0	100	0	20.20
			16QAM	1	74	1	0	21.24
			16QAM	75	0	100	0	19.21
			64QAM	1	74	1	0	18.88
			64QAM	75	0	100	0	19.26
			256QAM	1	74	1	0	17.17
			256QAM	75	0	100	0	17.23
20MHz/5MHz	3622.5	3634.2	QPSK	1	99	1	0	22.01
			QPSK	100	0	25	0	20.14
			16QAM	1	99	1	0	21.17
			16QAM	100	0	25	0	19.14
			64QAM	1	99	1	0	19.15
			64QAM	100	0	25	0	19.18
			256QAM	1	99	1	0	16.95
			256QAM	100	0	25	0	17.11
20MHz/10MHz	3620.1	3634.5	QPSK	1	99	1	0	22.07
			QPSK	100	0	50	0	20.18
			16QAM	1	99	1	0	20.96
			16QAM	100	0	50	0	19.20
			64QAM	1	99	1	0	19.20
			64QAM	100	0	50	0	19.19
			256QAM	1	99	1	0	16.98

			256QAM	100	0	50	0	17.14
20MHz/15MHz	3617.6	3634.7	QPSK	1	99	1	0	22.06
			QPSK	100	0	75	0	20.23
			16QAM	1	99	1	0	20.96
			16QAM	100	0	75	0	19.22
			64QAM	1	99	1	0	18.91
			64QAM	100	0	75	0	19.18
			256QAM	1	99	1	0	17.30
			256QAM	100	0	75	0	17.22
20MHz/20MHz	3615.1	3634.9	QPSK	1	99	1	0	22.10
			QPSK	100	0	100	0	20.27
			16QAM	1	99	1	0	21.04
			16QAM	100	0	100	0	19.23
			64QAM	1	99	1	0	18.97
			64QAM	100	0	100	0	19.23
			256QAM	1	99	1	0	17.38
			256QAM	100	0	100	0	17.26

Reference Measurement Results from 24T04Z102259:
LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	21.95	20.95	20.08	16.95
		2535.0	22.21	21.21	20.37	17.20
		2502.5	21.82	20.73	19.98	16.82
	1 RB low	2567.5	21.95	20.98	20.14	16.96
		2535.0	22.19	21.19	20.41	17.21
		2502.5	21.68	20.54	20.01	16.63
	50% RB mid	2567.5	20.97	20.00	19.10	17.03
		2535.0	21.17	20.21	19.30	17.23
		2502.5	20.77	19.82	18.83	16.83
	100% RB	2567.5	21.00	19.95	19.02	16.99
		2535.0	21.19	20.13	19.22	17.18
		2502.5	20.80	19.73	18.80	16.81
10MHz	1 RB high	2565.0	21.94	21.01	19.84	17.07
		2535.0	22.27	21.24	20.11	17.32
		2505.0	21.91	20.88	19.83	17.00
	1 RB low	2565.0	21.95	20.96	19.74	17.06
		2535.0	22.22	21.18	20.00	17.25
		2505.0	21.64	20.61	19.69	16.70
	50% RB mid	2565.0	21.04	20.09	19.11	17.07
		2535.0	21.30	20.32	19.32	17.29
		2505.0	20.90	19.91	18.99	16.92
	100% RB	2565.0	21.03	20.07	19.03	17.02
		2535.0	21.26	20.28	19.22	17.22
		2505.0	20.87	19.89	18.86	16.86
15MHz	1 RB high	2562.5	21.95	21.34	20.39	17.29
		2535.0	22.28	21.64	20.65	17.54
		2507.5	21.98	21.40	20.34	17.30
	1 RB low	2562.5	22.07	21.48	20.38	17.39
		2535.0	22.16	21.52	20.64	17.47
		2507.5	21.72	21.14	20.31	17.01
	50% RB mid	2562.5	21.04	20.02	19.02	17.04
		2535.0	21.27	20.24	19.24	17.24
		2507.5	20.97	19.94	19.00	16.97
	100% RB	2562.5	21.04	20.05	19.05	17.07
		2535.0	21.25	20.30	19.27	17.28
		2507.5	20.93	19.95	18.97	16.95
20MHz	1 RB high	2560.0	22.01	21.58	19.96	16.99
		2535.0	22.31	21.97	20.24	17.28
		2510.0	21.99	21.63	19.87	16.98

	1 RB low	2560.0	22.09	21.69	20.22	17.08
		2535.0	22.11	21.78	20.53	17.07
		2510.0	21.65	21.27	20.21	16.58
	50% RB mid	2560.0	21.12	20.11	19.12	17.12
		2535.0	21.33	20.28	19.35	17.32
		2510.0	21.06	19.99	19.09	17.02
	100% RB	2560.0	21.13	20.11	19.11	17.11
		2535.0	21.30	20.30	19.30	17.29
		2510.0	21.03	20.01	19.03	17.02

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.44	22.48	21.30	18.41
		707.5	23.41	22.50	21.30	18.38
		699.7	23.32	22.41	21.29	18.38
	1 RB low	715.3	23.43	22.46	21.22	18.41
		707.5	23.39	22.50	21.15	18.40
		699.7	23.25	22.34	21.13	18.28
	50% RB mid	715.3	23.50	22.62	21.23	18.37
		707.5	23.50	22.61	21.23	18.37
		699.7	23.53	22.61	21.26	18.38
	100% RB	715.3	22.45	21.65	20.32	18.41
		707.5	22.42	21.63	20.35	18.40
		699.7	22.43	21.65	20.34	18.38
3MHz	1 RB high	714.5	23.42	22.49	21.26	18.43
		707.5	23.43	22.51	21.26	18.43
		700.5	23.35	22.39	21.12	18.34
	1 RB low	714.5	23.42	22.46	21.19	18.41
		707.5	23.46	22.50	21.20	18.42
		700.5	23.38	22.46	21.14	18.33
	50% RB mid	714.5	22.43	21.50	20.43	18.37
		707.5	22.42	21.51	20.43	18.40
		700.5	22.45	21.54	20.32	18.38
	100% RB	714.5	22.47	21.43	20.40	18.37
		707.5	22.48	21.43	20.45	18.40
		700.5	22.49	21.45	20.40	18.38
5MHz	1 RB high	713.5	23.57	22.56	21.71	18.58
		707.5	23.61	22.64	21.66	18.54
		701.5	23.54	22.60	21.65	18.58
	1 RB low	713.5	23.55	22.59	21.75	18.58
		707.5	23.63	22.67	21.71	18.57
		701.5	23.49	22.53	21.76	18.48
	50% RB mid	713.5	22.52	21.60	20.56	18.51
		707.5	22.51	21.62	20.61	18.54
		701.5	22.47	21.58	20.49	18.50
	100% RB	713.5	22.58	21.52	20.52	18.48
		707.5	22.58	21.50	20.58	18.53
		701.5	22.55	21.52	20.54	18.50
10MHz	1 RB high	711.0	23.58	22.57	21.36	18.59
		707.5	23.60	22.59	21.41	18.57
		704.0	23.47	22.54	21.38	18.53
	1 RB low	711.0	23.52	22.59	21.24	18.56

		707.5	23.53	22.52	21.26	18.53
		704.0	23.40	22.50	21.19	18.42
	50% RB mid	711.0	22.54	21.63	20.50	18.52
		707.5	22.56	21.65	20.53	18.54
		704.0	22.55	21.63	20.53	18.52
	100% RB	711.0	22.57	21.58	20.47	18.43
		707.5	22.59	21.62	20.53	18.49
		704.0	22.53	21.56	20.46	18.43

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.12	22.13	21.28	18.19
		782.0	23.13	22.16	21.31	18.19
		779.5	23.19	22.03	21.33	18.24
	1 RB low	784.5	23.20	22.21	21.32	18.23
		782.0	23.14	22.17	21.33	18.24
		779.5	23.20	22.15	21.40	18.18
	50% RB mid	784.5	22.04	21.17	20.21	18.18
		782.0	22.09	21.20	20.25	18.20
		779.5	22.12	21.18	20.25	18.23
	100% RB	784.5	22.11	21.07	20.17	18.15
		782.0	22.15	21.09	20.19	18.16
		779.5	22.15	21.11	20.22	18.21
10MHz	1 RB high	782.0	23.16	22.12	21.05	18.20
	1 RB low	782.0	23.10	22.22	21.19	18.18
	50% RB mid	782.0	22.16	21.29	20.20	18.24
	100% RB	782.0	22.16	21.16	20.12	18.09

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.48	22.63	21.45	18.53
		1882.5	23.62	22.76	21.54	18.61
		1850.7	23.55	22.60	21.96	18.67
	1 RB low	1914.3	23.47	22.65	21.30	18.50
		1882.5	23.61	22.78	21.42	18.58
		1850.7	23.56	22.60	21.90	18.68
	50% RB mid	1914.3	23.60	22.70	21.40	18.50
		1882.5	23.64	22.77	21.49	18.61
		1850.7	23.65	22.79	21.52	18.55
	100% RB	1914.3	22.54	21.71	20.49	18.54
		1882.5	22.57	21.75	20.56	18.60
		1850.7	22.62	21.84	20.57	18.65
3MHz	1 RB high	1913.5	23.51	22.55	21.44	18.54
		1882.5	23.57	22.62	21.49	18.62
		1851.5	23.58	22.60	21.50	18.64
	1 RB low	1913.5	23.49	22.54	21.28	18.50
		1882.5	23.62	22.66	21.35	18.64
		1851.5	23.62	22.65	21.38	18.63
	50% RB mid	1913.5	22.51	21.57	20.61	18.53
		1882.5	22.56	21.68	20.67	18.62
		1851.5	22.58	21.69	20.56	18.65
	100% RB	1913.5	22.53	21.51	20.47	18.45
		1882.5	22.58	21.54	20.62	18.60
		1851.5	22.63	21.60	20.65	18.61
5MHz	1 RB high	1912.5	23.69	22.70	21.81	18.67
		1882.5	23.68	22.71	21.82	18.75
		1852.5	23.69	22.72	21.82	18.74
	1 RB low	1912.5	23.63	22.64	21.86	18.69
		1882.5	23.71	22.74	21.88	18.74
		1852.5	23.75	22.80	21.89	18.77
	50% RB mid	1912.5	22.55	21.65	20.73	18.66
		1882.5	22.64	21.75	20.80	18.73
		1852.5	22.61	21.73	20.71	18.75
	100% RB	1912.5	22.63	21.57	20.66	18.66
		1882.5	22.68	21.61	20.68	18.68
		1852.5	22.69	21.63	20.73	18.71
10MHz	1 RB high	1910.0	23.60	22.68	21.52	18.71
		1882.5	23.67	22.70	21.61	18.79
		1855.0	23.70	22.69	21.58	18.77
	1 RB low	1910.0	23.64	22.68	21.35	18.71

		1882.5	23.63	22.67	21.47	18.73
		1855.0	23.70	22.68	21.44	18.78
	50% RB mid	1910.0	22.57	21.69	20.62	18.68
		1882.5	22.65	21.74	20.74	18.75
		1855.0	22.65	21.67	20.72	18.72
	100% RB	1910.0	22.63	21.68	20.67	18.63
		1882.5	22.64	21.67	20.68	18.67
		1855.0	22.68	21.69	20.68	18.66
15MHz	1 RB high	1907.5	23.59	22.94	22.01	18.94
		1882.5	23.65	23.06	22.06	18.98
		1857.5	23.66	23.06	22.09	19.02
	1 RB low	1907.5	23.57	22.98	22.01	18.95
		1882.5	23.62	23.02	22.02	18.98
		1857.5	23.70	23.08	22.03	19.06
	50% RB mid	1907.5	22.61	21.63	20.65	18.68
		1882.5	22.66	21.69	20.67	18.72
		1857.5	22.63	21.65	20.67	18.67
	100% RB	1907.5	22.64	21.67	20.71	18.72
		1882.5	22.66	21.69	20.71	18.72
		1857.5	22.71	21.71	20.75	18.76
20MHz	1 RB high	1905.0	23.60	23.14	21.55	18.65
		1882.5	23.65	23.29	21.59	18.68
		1860.0	23.64	23.29	21.58	18.69
	1 RB low	1905.0	23.66	23.27	21.80	18.72
		1882.5	23.62	23.28	21.93	18.64
		1860.0	23.66	23.27	21.88	18.68
	50% RB mid	1905.0	22.64	21.69	20.69	18.75
		1882.5	22.70	21.72	20.73	18.77
		1860.0	22.72	21.74	20.74	18.76
	100% RB	1905.0	22.62	21.64	20.69	18.65
		1882.5	22.68	21.68	20.71	18.69
		1860.0	22.77	21.76	20.76	18.76

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.31	22.82	21.99	18.72
		819.0	23.27	22.53	21.49	18.55
		814.7	23.20	22.59	21.83	18.59
	1 RB low	823.3	23.29	22.83	21.93	18.73
		819.0	23.23	22.53	21.30	18.54
		814.7	23.17	22.44	21.83	18.60
	50% RB mid	823.3	23.31	22.77	21.74	18.62
		819.0	23.36	22.66	21.67	18.56
		814.7	23.40	22.66	21.79	18.53
	100% RB	823.3	22.60	21.50	20.66	18.59
		819.0	22.51	21.76	20.59	18.54
		814.7	22.52	21.43	20.55	18.47
3MHz	1 RB high	822.5	23.27	22.62	21.41	18.62
		819.0	23.23	22.51	21.44	18.56
		815.5	23.31	22.50	21.39	18.51
	1 RB low	822.5	23.26	22.66	21.28	18.58
		819.0	23.28	22.49	21.24	18.47
		815.5	23.30	22.50	21.20	18.49
	50% RB mid	822.5	22.58	21.67	20.67	18.65
		819.0	22.51	21.59	20.59	18.53
		815.5	22.45	21.57	20.42	18.55
	100% RB	822.5	22.64	21.60	20.64	18.61
		819.0	22.56	21.51	20.54	18.51
		815.5	22.53	21.52	20.54	18.52
5MHz	1 RB high	821.5	23.45	22.67	21.82	18.74
		819.0	23.45	22.68	21.93	18.74
		816.5	23.43	22.67	21.85	18.70
	1 RB low	821.5	23.47	22.56	21.88	18.61
		819.0	23.51	22.56	21.90	18.62
		816.5	23.50	22.60	21.87	18.67
	50% RB mid	821.5	22.65	21.75	20.85	18.74
		819.0	22.61	21.67	20.79	18.64
		816.5	22.56	21.67	20.65	18.64
	100% RB	821.5	22.70	21.67	20.72	18.69
		819.0	22.66	21.64	20.68	18.64
		816.5	22.65	21.61	20.66	18.62
10MHz	1 RB high	819.0	23.46	22.70	21.51	18.76
	1 RB low	819.0	23.50	22.57	21.41	18.61
	50% RB mid	819.0	22.73	21.74	20.80	18.73
	100% RB	819.0	22.73	21.76	20.72	18.70

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.15	22.59	21.37	18.50
		836.5	23.31	22.58	21.61	18.36
		824.7	23.19	22.60	21.99	18.72
	1 RB low	848.3	23.13	22.54	21.38	18.47
		836.5	23.33	22.67	21.52	18.39
		824.7	23.19	22.60	21.93	18.69
	50% RB mid	848.3	23.22	22.62	21.74	18.56
		836.5	23.37	22.68	21.70	18.50
		824.7	23.35	22.68	21.63	18.57
	100% RB	848.3	22.46	21.40	20.58	18.51
		836.5	22.51	21.38	20.75	18.46
		824.7	22.52	21.70	20.65	18.52
3MHz	1 RB high	847.5	23.15	22.45	21.28	18.48
		836.5	23.36	22.45	21.33	18.51
		825.5	23.31	22.56	21.41	18.62
	1 RB low	847.5	23.22	22.47	21.28	18.48
		836.5	23.37	22.49	21.30	18.52
		825.5	23.29	22.63	21.39	18.59
	50% RB mid	847.5	22.50	21.55	20.59	18.52
		836.5	22.48	21.58	20.56	18.53
		825.5	22.55	21.63	20.53	18.58
	100% RB	847.5	22.52	21.50	20.44	18.49
		836.5	22.55	21.48	20.54	18.52
		825.5	22.58	21.55	20.62	18.58
5MHz	1 RB high	846.5	23.44	22.54	21.67	18.63
		836.5	23.59	22.58	21.83	18.68
		826.5	23.64	22.77	22.00	18.84
	1 RB low	846.5	23.47	22.52	21.81	18.58
		836.5	23.65	22.63	21.85	18.73
		826.5	23.52	22.74	22.02	18.78
	50% RB mid	846.5	22.55	21.63	20.72	18.60
		836.5	22.59	21.68	20.70	18.65
		826.5	22.63	21.74	20.75	18.71
	100% RB	846.5	22.63	21.57	20.64	18.61
		836.5	22.64	21.57	20.65	18.61
		826.5	22.70	21.64	20.71	18.69
10MHz	1 RB high	844.0	23.35	22.55	21.30	18.64
		836.5	23.53	22.56	21.51	18.66
		829.0	23.57	22.65	21.44	18.69
	1 RB low	844.0	23.54	22.56	21.38	18.61

		836.5	23.62	22.74	21.42	18.78
		829.0	23.40	22.67	21.47	18.67
		844.0	22.58	21.65	20.61	18.60
	50% RB mid	836.5	22.65	21.76	20.70	18.70
		829.0	22.76	21.84	20.80	18.80
		844.0	22.59	21.62	20.58	18.55
	100% RB	836.5	22.67	21.70	20.64	18.63
		829.0	22.74	21.79	20.75	18.70
		844.0	22.59	21.62	20.58	18.55
15MHz	1 RB high	841.5	23.38	22.83	21.97	18.88
		836.5	23.49	22.84	21.91	18.80
		831.5	23.54	22.90	21.96	18.84
	1 RB low	841.5	23.54	22.94	21.91	18.95
		836.5	23.61	23.00	21.92	18.98
		831.5	23.42	22.97	21.90	18.97
	50% RB mid	841.5	22.54	21.57	20.54	18.58
		836.5	22.58	21.62	20.58	18.62
		831.5	22.63	21.70	20.63	18.70
	100% RB	841.5	22.58	21.61	20.63	18.61
		836.5	22.64	21.64	20.66	18.65
		831.5	22.71	21.72	20.71	18.68

LTE band 30

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	23.31	22.32	21.81	18.67
		2310.0	23.42	22.44	21.79	18.67
		2307.5	23.37	22.24	21.48	18.27
	1 RB low	2312.5	23.39	22.42	21.78	18.70
		2310.0	23.44	22.48	21.83	18.66
		2307.5	23.44	22.30	21.49	18.27
	50% RB mid	2312.5	22.33	21.67	20.74	18.67
		2310.0	22.38	21.67	20.78	18.68
		2307.5	22.37	21.69	20.67	18.67
	100% RB	2312.5	22.39	21.60	20.66	18.64
		2310.0	22.42	21.59	20.66	18.63
		2307.5	22.43	21.60	20.64	18.65
10MHz	1 RB high	2310.0	23.38	22.37	21.51	18.73
	1 RB low	2310.0	23.43	22.44	21.30	18.64
	50% RB mid	2310.0	22.47	21.77	20.73	18.70
	100% RB	2310.0	22.47	21.71	20.64	18.62

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.14	24.35	23.99	20.59
		2593.0	25.63	24.82	24.22	20.82
		2498.5	25.44	24.29	23.89	20.50
	1 RB low	2687.5	25.12	24.30	23.85	20.63
		2593.0	25.61	24.77	24.10	20.78
		2498.5	25.37	24.25	23.78	20.43
	50% RB mid	2687.5	24.03	23.54	22.48	20.42
		2593.0	24.52	23.68	22.62	20.54
		2498.5	24.27	23.41	22.26	20.27
	100% RB	2687.5	24.07	23.45	22.38	20.38
		2593.0	24.56	23.60	22.52	20.52
		2498.5	24.27	23.35	22.26	20.26
10MHz	1 RB high	2685.0	25.10	24.21	23.35	20.49
		2593.0	25.54	24.67	23.50	20.68
		2501.0	25.41	24.55	23.37	20.50
	1 RB low	2685.0	25.11	24.21	23.43	20.66
		2593.0	25.55	24.66	23.64	20.68
		2501.0	25.22	24.37	23.45	20.33
	50% RB mid	2685.0	24.06	23.49	22.40	20.41
		2593.0	24.53	23.60	22.47	20.53
		2501.0	24.39	23.36	22.31	20.28
	100% RB	2685.0	24.10	23.46	22.44	20.41
		2593.0	24.55	23.59	22.55	20.50
		2501.0	24.28	23.39	22.31	20.29
15MHz	1 RB high	2682.5	25.15	24.32	23.68	20.57
		2593.0	25.61	24.77	23.85	20.77
		2503.5	25.48	24.63	23.70	20.66
	1 RB low	2682.5	25.23	24.38	23.61	20.85
		2593.0	25.60	24.76	23.82	20.81
		2503.5	25.27	24.40	23.72	20.44
	50% RB mid	2682.5	24.08	23.54	22.45	20.46
		2593.0	24.53	23.61	22.50	20.51
		2503.5	24.41	23.41	22.36	20.30
	100% RB	2682.5	24.12	23.53	22.53	20.53
		2593.0	24.54	23.56	22.59	20.54
		2503.5	24.39	23.39	22.40	20.35
20MHz	1 RB high	2680.0	25.15	24.47	23.70	20.81
		2593.0	25.67	24.96	23.90	21.04
		2506.0	25.57	24.85	23.84	21.00
	1 RB low	2680.0	25.22	24.53	23.59	21.02

		2593.0	25.61	24.88	23.81	21.01
		2506.0	25.25	24.57	23.76	20.63
	50% RB mid	2680.0	24.09	23.65	22.45	20.52
		2593.0	24.56	23.63	22.48	20.47
		2506.0	24.51	23.49	22.54	20.42
	100% RB	2680.0	24.15	23.58	22.55	20.50
		2593.0	24.58	23.60	22.48	20.49
		2506.0	24.43	23.43	22.42	20.41

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.30	22.32	21.22	18.29
		1745.0	23.32	22.35	21.25	18.33
		1710.7	23.26	22.38	21.64	18.37
	1 RB low	1779.3	23.28	22.29	21.09	18.28
		1745.0	23.30	22.33	21.14	18.36
		1710.7	23.27	22.41	21.04	18.26
	50% RB mid	1779.3	23.35	22.52	21.18	18.28
		1745.0	23.32	22.50	21.12	18.27
		1710.7	23.34	22.48	21.18	18.25
	100% RB	1779.3	22.32	21.22	20.21	18.29
		1745.0	22.34	21.23	20.22	18.27
		1710.7	22.27	21.45	20.32	18.26
3MHz	1 RB high	1778.5	23.29	22.31	21.55	18.74
		1745.0	23.34	22.36	21.58	18.77
		1711.5	23.29	22.33	21.18	18.29
	1 RB low	1778.5	23.30	22.34	21.91	18.71
		1745.0	23.32	22.36	21.95	18.74
		1711.5	23.28	22.33	21.04	18.27
	50% RB mid	1778.5	22.27	21.35	20.38	18.29
		1745.0	22.27	21.34	20.34	18.27
		1711.5	22.29	21.33	20.25	18.24
	100% RB	1778.5	22.33	21.28	20.37	18.25
		1745.0	22.31	21.26	20.33	18.26
		1711.5	22.30	21.26	20.30	18.27
5MHz	1 RB high	1777.5	23.47	22.49	21.57	18.43
		1745.0	23.43	22.46	21.57	18.44
		1712.5	23.42	22.43	21.55	18.48
	1 RB low	1777.5	23.41	22.44	21.60	18.42
		1745.0	23.42	22.46	21.62	18.44
		1712.5	23.40	22.42	21.61	18.45
	50% RB mid	1777.5	22.36	21.44	20.52	18.43
		1745.0	22.35	21.45	20.51	18.43
		1712.5	22.32	21.39	20.40	18.42
	100% RB	1777.5	22.40	21.35	20.43	18.41
		1745.0	22.41	21.33	20.41	18.39
		1712.5	22.38	21.32	20.41	18.39
10MHz	1 RB high	1775.0	23.43	22.38	21.65	18.86
		1745.0	23.41	22.44	21.67	18.89
		1715.0	23.34	22.41	21.64	18.83
	1 RB low	1775.0	23.37	22.41	21.62	18.84

		1745.0	23.35	22.38	21.62	18.85
		1715.0	23.32	22.34	21.57	18.80
	50% RB mid	1775.0	22.41	21.45	20.46	18.38
		1745.0	22.37	21.42	20.42	18.35
		1715.0	22.38	21.39	20.41	18.30
	100% RB	1775.0	22.43	21.45	20.42	18.41
		1745.0	22.37	21.40	20.38	18.41
		1715.0	22.36	21.40	20.36	18.40
15MHz	1 RB high	1772.5	23.32	22.74	21.78	18.70
		1745.0	23.40	22.80	21.81	18.74
		1717.5	23.34	22.67	21.62	18.82
	1 RB low	1772.5	23.30	22.70	21.75	18.68
		1745.0	23.29	22.68	21.77	18.63
		1717.5	23.32	22.74	21.89	18.83
	50% RB mid	1772.5	22.40	21.40	20.40	18.38
		1745.0	22.38	21.37	20.37	18.37
		1717.5	22.35	21.36	20.39	18.35
	100% RB	1772.5	22.43	21.44	20.47	18.47
		1745.0	22.39	21.41	20.45	18.42
		1717.5	22.38	21.43	20.42	18.43
20MHz	1 RB high	1770.0	23.42	22.99	21.24	18.38
		1745.0	23.46	23.09	21.32	18.42
		1720.0	23.33	22.92	21.20	18.28
	1 RB low	1770.0	23.33	22.88	21.55	18.33
		1745.0	23.24	22.85	21.68	18.27
		1720.0	23.28	22.94	21.61	18.24
	50% RB mid	1770.0	22.38	21.41	20.42	18.46
		1745.0	22.46	21.42	20.45	18.45
		1720.0	22.48	21.39	20.46	18.44
	100% RB	1770.0	22.39	21.40	20.39	18.39
		1745.0	22.44	21.45	20.45	18.45
		1720.0	22.43	21.39	20.42	18.40

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.66	21.61	20.81	17.69
		680.5	22.68	21.68	20.83	17.70
		665.5	22.61	21.56	20.69	17.58
	1 RB low	695.5	22.63	21.68	20.85	17.73
		680.5	22.66	21.67	20.87	17.69
		665.5	22.62	21.64	20.74	17.58
	50% RB mid	695.5	21.55	20.63	19.71	17.66
		680.5	21.53	20.62	19.70	17.65
		665.5	21.59	20.65	19.69	17.66
	100% RB	695.5	21.59	20.53	19.60	17.60
		680.5	21.56	20.51	19.58	17.59
		665.5	21.65	20.62	19.69	17.64
10MHz	1 RB high	693.0	22.51	21.53	20.49	17.68
		680.5	22.56	21.64	20.58	17.74
		668.0	22.36	21.46	20.32	17.51
	1 RB low	693.0	22.60	21.63	20.38	17.73
		680.5	22.41	21.47	20.40	17.55
		668.0	22.47	21.60	20.17	17.56
	50% RB mid	693.0	21.60	20.68	19.69	17.68
		680.5	21.55	20.61	19.65	17.63
		668.0	21.48	20.65	19.63	17.64
	100% RB	693.0	21.59	20.65	19.63	17.63
		680.5	21.52	20.54	19.54	17.52
		668.0	21.50	20.53	19.52	17.53
15MHz	1 RB high	690.5	22.48	21.84	20.96	17.90
		680.5	22.51	21.96	21.00	17.98
		670.5	22.35	21.78	20.83	17.72
	1 RB low	690.5	22.51	21.90	20.84	17.91
		680.5	22.36	21.77	20.99	17.76
		670.5	22.51	21.79	20.80	17.79
	50% RB mid	690.5	21.55	20.49	19.57	17.55
		680.5	21.49	20.46	19.55	17.54
		670.5	21.39	20.42	19.49	17.50
	100% RB	690.5	21.57	20.59	19.64	17.67
		680.5	21.48	20.51	19.53	17.55
		670.5	21.45	20.49	19.54	17.53
20MHz	1 RB high	688.0	22.56	22.15	20.52	17.58
		680.5	22.65	22.31	20.59	17.73
		673.0	22.49	22.12	20.48	17.58
	1 RB low	688.0	22.47	22.12	20.90	17.51

		680.5	22.38	22.02	20.92	17.48
		673.0	22.46	22.01	20.78	17.44
	50% RB mid	688.0	21.63	20.53	19.70	17.60
		680.5	21.51	20.47	19.59	17.59
		673.0	21.54	20.40	19.61	17.51
	100% RB	688.0	21.60	20.59	19.64	17.65
		680.5	21.44	20.45	19.54	17.52
		673.0	21.51	20.51	19.57	17.56

A.1.3 Radiated

A.1.3.1 Description

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

FDD Band 7/TDD Band 38/41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

FDD Band 12/71: Part 27.50(c)(10) specifies "Portable stations(hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

FDD Band 13: Part 27.50(b) specifies "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".

FDD Band 14: Part 90.542(a)(7) specifies " Portable stations (hand-held de-vices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP".

FDD Band 26(814MHz~824MHz): Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

FDD Band 5/26(824MHz~849MHz): Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

FDD Band 30: Part 27.50(a) specifies "For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth".

FDD Band 4/66: Part 27.50(d)(4) specifies "Fixed, mobile, and portable(handheld) 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".

TDD Band 48: Part 96.11(b) specifies "Maximum EIRP of End User Device is 23dBm/10megahertz".

A.1.3.2 Method of Measurement

According to KDB 412172 D01 and ANSI C63.26 the relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{ERP or EIRP} = P_T + G_T - L_C$$

where;

- **ERP or EIRP** = effective radiated power or equivalent isotropically radiated power(expressed in the same units as P_T).
- P_T = transmitter output power, in this report the unit express as dBm;
- G_T = gain of the transmitting antenna, in dBd(ERP) or dBi(EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Alternatively, the EIRP can be determined from Equation above and then converted to ERP based on the maximum antenna gain relationship by applying the following equation:

$$\text{ERP} = \text{EIRP} - 2.15\text{dB}$$

Note: The antenna gain information was provided by the client. The laboratory is not responsible for identifying its authenticity during the test.

A.1.3.3 Limits and Measurement Results

Measurement Results from UT14a:

LTE Band 14-ERP

Limits: $\leq 34.77\text{dBm}(3\text{W})$

Max ERP: 18.28dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) (Gt-Lc = -2.8)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	795.5	23.11	22.07	21.31	18.2	18.16	17.12	16.36	13.25
		793	23.1	22.16	21.31	18.2	18.15	17.21	16.36	13.25
		790.5	23.11	21.98	21.08	17.82	18.16	17.03	16.13	12.87
	1 RB low	795.5	23.09	22.12	21.35	18.26	18.14	17.17	16.40	13.31
		793	23.14	22.1	21.37	18.19	18.19	17.15	16.42	13.24
		790.5	23.22	22.01	21.02	17.92	18.27	17.06	16.07	12.97
	50% RB mid	795.5	22.08	21.14	20.27	18.19	17.13	16.19	15.32	13.24
		793	22.05	21.19	20.26	18.22	17.10	16.24	15.31	13.27
		790.5	22.08	21.16	20.19	18.22	17.13	16.21	15.24	13.27
	100% RB	795.5	22.14	21.06	20.16	18.16	17.19	16.11	15.21	13.21
		793	22.12	21.08	20.2	18.18	17.17	16.13	15.25	13.23
		790.5	22.16	21.09	20.24	18.21	17.21	16.14	15.29	13.26
10MHz	1 RB high	793	23.12	22.11	21.08	18.2	18.17	17.16	16.13	13.25
	1 RB low	793	23.23	22.19	20.89	18.3	18.28	17.24	15.94	13.35
	50% RB mid	793	22.17	21.24	20.22	18.22	17.22	16.29	15.27	13.27
	100% RB	793	22.19	21.21	20.19	18.17	17.24	16.26	15.24	13.22

LTE Band 48-EIRP

Limits: $\leq 23(\text{dBm}/10\text{MHz})$

Max ERP: 22.71(dBm/10MHz)

BW(M Hz)	Frequency (MHz)	Modulation	RB Allocation	Conducted Power (dBm/10MHz)	Antenna Gain	EIRP (dBm/10MHz)	LIMIT (dBm/10MHz)	Margin
5	3552.5	QPSK	1 RB low	23.39	-1.1	22.29	23	0.71
5	3552.5	QPSK	1 RB high	23.29	-1.1	22.19	23	0.81
5	3552.5	QPSK	100% RB	21.91	-1.1	20.81	23	2.19
5	3552.5	16QAM	1 RB low	22.37	-1.1	21.27	23	1.73
5	3552.5	16QAM	1 RB high	22.41	-1.1	21.31	23	1.69
5	3552.5	16QAM	100% RB	20.96	-1.1	19.86	23	3.14
5	3552.5	64QAM	1 RB low	21.79	-1.1	20.69	23	2.31
5	3552.5	64QAM	1 RB high	21.50	-1.1	20.40	23	2.60
5	3552.5	64QAM	100% RB	19.92	-1.1	18.82	23	4.18
5	3552.5	256QAM	1 RB low	18.51	-1.1	17.41	23	5.59
5	3552.5	256QAM	1 RB high	18.39	-1.1	17.29	23	5.71
5	3552.5	256QAM	100% RB	17.93	-1.1	16.83	23	6.17
5	3625	QPSK	1 RB low	23.67	-1.1	22.57	23	0.43
5	3625	QPSK	1 RB high	23.48	-1.1	22.38	23	0.62
5	3625	QPSK	100% RB	21.90	-1.1	20.80	23	2.20
5	3625	16QAM	1 RB low	23.03	-1.1	21.93	23	1.07
5	3625	16QAM	1 RB high	22.40	-1.1	21.30	23	1.70
5	3625	16QAM	100% RB	21.39	-1.1	20.29	23	2.71
5	3625	64QAM	1 RB low	21.35	-1.1	20.25	23	2.75
5	3625	64QAM	1 RB high	21.20	-1.1	20.10	23	2.90
5	3625	64QAM	100% RB	20.15	-1.1	19.05	23	3.95
5	3625	256QAM	1 RB low	18.18	-1.1	17.08	23	5.92
5	3625	256QAM	1 RB high	18.02	-1.1	16.92	23	6.08
5	3625	256QAM	100% RB	18.77	-1.1	17.67	23	5.33
5	3697.5	QPSK	1 RB low	23.38	-1.1	22.28	23	0.72
5	3697.5	QPSK	1 RB high	23.81	-1.1	22.71	23	0.29
5	3697.5	QPSK	100% RB	22.25	-1.1	21.15	23	1.85
5	3697.5	16QAM	1 RB low	22.51	-1.1	21.41	23	1.59
5	3697.5	16QAM	1 RB high	22.78	-1.1	21.68	23	1.32
5	3697.5	16QAM	100% RB	21.23	-1.1	20.13	23	2.87
5	3697.5	64QAM	1 RB low	21.57	-1.1	20.47	23	2.53
5	3697.5	64QAM	1 RB high	22.16	-1.1	21.06	23	1.94
5	3697.5	64QAM	100% RB	20.24	-1.1	19.14	23	3.86
5	3697.5	256QAM	1 RB low	18.45	-1.1	17.35	23	5.65
5	3697.5	256QAM	1 RB high	18.93	-1.1	17.83	23	5.17
5	3697.5	256QAM	100% RB	18.23	-1.1	17.13	23	5.87
10	3555	QPSK	1 RB low	23.17	-1.1	22.07	23	0.93

10	3555	QPSK	1 RB high	23.24	-1.1	22.14	23	0.86
10	3555	QPSK	100% RB	21.21	-1.1	20.11	23	2.89
10	3555	16QAM	1 RB low	22.36	-1.1	21.26	23	1.74
10	3555	16QAM	1 RB high	22.44	-1.1	21.34	23	1.66
10	3555	16QAM	100% RB	20.14	-1.1	19.04	23	3.96
10	3555	64QAM	1 RB low	21.30	-1.1	20.20	23	2.80
10	3555	64QAM	1 RB high	21.36	-1.1	20.26	23	2.74
10	3555	64QAM	100% RB	19.11	-1.1	18.01	23	4.99
10	3555	256QAM	1 RB low	18.29	-1.1	17.19	23	5.81
10	3555	256QAM	1 RB high	18.31	-1.1	17.21	23	5.79
10	3555	256QAM	100% RB	17.08	-1.1	15.98	23	7.02
10	3625	QPSK	1 RB low	23.07	-1.1	21.97	23	1.03
10	3625	QPSK	1 RB high	22.91	-1.1	21.81	23	1.19
10	3625	QPSK	100% RB	22.16	-1.1	21.06	23	1.94
10	3625	16QAM	1 RB low	22.57	-1.1	21.47	23	1.53
10	3625	16QAM	1 RB high	22.00	-1.1	20.90	23	2.10
10	3625	16QAM	100% RB	19.97	-1.1	18.87	23	4.13
10	3625	64QAM	1 RB low	21.23	-1.1	20.13	23	2.87
10	3625	64QAM	1 RB high	20.92	-1.1	19.82	23	3.18
10	3625	64QAM	100% RB	18.86	-1.1	17.76	23	5.24
10	3625	256QAM	1 RB low	18.19	-1.1	17.09	23	5.91
10	3625	256QAM	1 RB high	17.90	-1.1	16.80	23	6.20
10	3625	256QAM	100% RB	18.00	-1.1	16.90	23	6.10
10	3695	QPSK	1 RB low	23.15	-1.1	22.05	23	0.95
10	3695	QPSK	1 RB high	23.52	-1.1	22.42	23	0.58
10	3695	QPSK	100% RB	21.34	-1.1	20.24	23	2.76
10	3695	16QAM	1 RB low	22.13	-1.1	21.03	23	1.97
10	3695	16QAM	1 RB high	22.59	-1.1	21.49	23	1.51
10	3695	16QAM	100% RB	20.33	-1.1	19.23	23	3.77
10	3695	64QAM	1 RB low	22.29	-1.1	21.19	23	1.81
10	3695	64QAM	1 RB high	21.98	-1.1	20.88	23	2.12
10	3695	64QAM	100% RB	19.27	-1.1	18.17	23	4.83
10	3695	256QAM	1 RB low	18.35	-1.1	17.25	23	5.75
10	3695	256QAM	1 RB high	18.60	-1.1	17.50	23	5.50
10	3695	256QAM	100% RB	17.20	-1.1	16.10	23	6.90
15	3557.5	QPSK	1 RB low	23.22	-1.1	22.12	23	0.88
15	3557.5	QPSK	1 RB high	23.29	-1.1	22.19	23	0.81
15	3557.5	QPSK	100% RB	19.93	-1.1	18.83	23	4.17
15	3557.5	16QAM	1 RB low	22.40	-1.1	21.30	23	1.70
15	3557.5	16QAM	1 RB high	22.45	-1.1	21.35	23	1.65
15	3557.5	16QAM	100% RB	18.82	-1.1	17.72	23	5.28
15	3557.5	64QAM	1 RB low	21.68	-1.1	20.58	23	2.42
15	3557.5	64QAM	1 RB high	21.56	-1.1	20.46	23	2.54

15	3557.5	64QAM	100% RB	17.83	-1.1	16.73	23	6.27
15	3557.5	256QAM	1 RB low	18.32	-1.1	17.22	23	5.78
15	3557.5	256QAM	1 RB high	18.44	-1.1	17.34	23	5.66
15	3557.5	256QAM	100% RB	15.81	-1.1	14.71	23	8.29
15	3625	QPSK	1 RB low	23.10	-1.1	22.00	23	1.00
15	3625	QPSK	1 RB high	22.91	-1.1	21.81	23	1.19
15	3625	QPSK	100% RB	19.55	-1.1	18.45	23	4.55
15	3625	16QAM	1 RB low	22.32	-1.1	21.22	23	1.78
15	3625	16QAM	1 RB high	22.06	-1.1	20.96	23	2.04
15	3625	16QAM	100% RB	18.53	-1.1	17.43	23	5.57
15	3625	64QAM	1 RB low	21.24	-1.1	20.14	23	2.86
15	3625	64QAM	1 RB high	20.88	-1.1	19.78	23	3.22
15	3625	64QAM	100% RB	17.49	-1.1	16.39	23	6.61
15	3625	256QAM	1 RB low	18.24	-1.1	17.14	23	5.86
15	3625	256QAM	1 RB high	17.93	-1.1	16.83	23	6.17
15	3625	256QAM	100% RB	15.48	-1.1	14.38	23	8.62
15	3692.5	QPSK	1 RB low	22.91	-1.1	21.81	23	1.19
15	3692.5	QPSK	1 RB high	23.60	-1.1	22.50	23	0.50
15	3692.5	QPSK	100% RB	19.95	-1.1	18.85	23	4.15
15	3692.5	16QAM	1 RB low	22.04	-1.1	20.94	23	2.06
15	3692.5	16QAM	1 RB high	22.69	-1.1	21.59	23	1.41
15	3692.5	16QAM	100% RB	18.84	-1.1	17.74	23	5.26
15	3692.5	64QAM	1 RB low	20.94	-1.1	19.84	23	3.16
15	3692.5	64QAM	1 RB high	21.58	-1.1	20.48	23	2.52
15	3692.5	64QAM	100% RB	17.79	-1.1	16.69	23	6.31
15	3692.5	256QAM	1 RB low	17.95	-1.1	16.85	23	6.15
15	3692.5	256QAM	1 RB high	18.59	-1.1	17.49	23	5.51
15	3692.5	256QAM	100% RB	15.81	-1.1	14.71	23	8.29
20	3560	QPSK	1 RB low	23.21	-1.1	22.11	23	0.89
20	3560	QPSK	1 RB high	23.19	-1.1	22.09	23	0.91
20	3560	QPSK	100% RB	18.83	-1.1	17.73	23	5.27
20	3560	16QAM	1 RB low	22.25	-1.1	21.15	23	1.85
20	3560	16QAM	1 RB high	22.28	-1.1	21.18	23	1.82
20	3560	16QAM	100% RB	17.74	-1.1	16.64	23	6.36
20	3560	64QAM	1 RB low	21.32	-1.1	20.22	23	2.78
20	3560	64QAM	1 RB high	21.33	-1.1	20.23	23	2.77
20	3560	64QAM	100% RB	16.75	-1.1	15.65	23	7.35
20	3560	256QAM	1 RB low	18.18	-1.1	17.08	23	5.92
20	3560	256QAM	1 RB high	18.18	-1.1	17.08	23	5.92
20	3560	256QAM	100% RB	14.75	-1.1	13.65	23	9.35
20	3625	QPSK	1 RB low	23.14	-1.1	22.04	23	0.96
20	3625	QPSK	1 RB high	22.92	-1.1	21.82	23	1.18
20	3625	QPSK	100% RB	18.53	-1.1	17.43	23	5.57

20	3625	16QAM	1 RB low	22.40	-1.1	21.30	23	1.70
20	3625	16QAM	1 RB high	22.16	-1.1	21.06	23	1.94
20	3625	16QAM	100% RB	17.43	-1.1	16.33	23	6.67
20	3625	64QAM	1 RB low	21.34	-1.1	20.24	23	2.76
20	3625	64QAM	1 RB high	21.04	-1.1	19.94	23	3.06
20	3625	64QAM	100% RB	16.38	-1.1	15.28	23	7.72
20	3625	256QAM	1 RB low	18.31	-1.1	17.21	23	5.79
20	3625	256QAM	1 RB high	18.04	-1.1	16.94	23	6.06
20	3625	256QAM	100% RB	14.42	-1.1	13.32	23	9.68
20	3690	QPSK	1 RB low	22.84	-1.1	21.74	23	1.26
20	3690	QPSK	1 RB high	23.58	-1.1	22.48	23	0.52
20	3690	QPSK	100% RB	18.74	-1.1	17.64	23	5.36
20	3690	16QAM	1 RB low	22.09	-1.1	20.99	23	2.01
20	3690	16QAM	1 RB high	22.81	-1.1	21.71	23	1.29
20	3690	16QAM	100% RB	17.64	-1.1	16.54	23	6.46
20	3690	64QAM	1 RB low	21.11	-1.1	20.01	23	2.99
20	3690	64QAM	1 RB high	21.74	-1.1	20.64	23	2.36
20	3690	64QAM	100% RB	16.61	-1.1	15.51	23	7.49
20	3690	256QAM	1 RB low	18.00	-1.1	16.90	23	6.10
20	3690	256QAM	1 RB high	18.71	-1.1	17.61	23	5.39
20	3690	256QAM	100% RB	14.57	-1.1	13.47	23	9.53

LTE Band 41C-EIRP
Limits: $\leq 2W(33dBm)$
Max EIRP: 22.48dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power (dBm) (Gt-Lc =-1.1)
				Size	Offset	Size	Offset		
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	23.36	22.26
				25	0	100	0	21.46	20.36
			16QAM	1	24	1	0	22.42	21.32
				25	0	100	0	20.45	19.35
			64QAM	1	24	1	0	20.3	19.2
				25	0	100	0	20.44	19.34
			256QAM	1	24	1	0	18.42	17.32
				25	0	100	0	18.42	17.32
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.45	22.35
				50	0	75	0	21.5	20.4
			16QAM	1	49	1	0	22.48	21.38
				50	0	75	0	20.5	19.4
			64QAM	1	49	1	0	20.21	19.11
				50	0	75	0	20.51	19.41
			256QAM	1	49	1	0	18.4	17.3
				50	0	75	0	18.5	17.4
10MHz/20MHz	2583.6	2598	QPSK	1	49	1	0	23.48	22.38
				50	0	100	0	21.49	20.39
			16QAM	1	49	1	0	22.5	21.4
				50	0	100	0	20.5	19.4
			64QAM	1	49	1	0	20.23	19.13
				50	0	100	0	20.48	19.38
			256QAM	1	49	1	0	18.43	17.33
				50	0	100	0	18.52	17.42
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.51	22.41
				75	0	50	0	21.51	20.41
			16QAM	1	74	1	0	22.63	21.53
				75	0	50	0	20.46	19.36
			64QAM	1	74	1	0	20.26	19.16
				75	0	50	0	20.47	19.37
			256QAM	1	74	1	0	18.53	17.43
				75	0	50	0	18.49	17.39
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.51	22.41
				75	0	75	0	21.46	20.36
			16QAM	1	74	1	0	22.29	21.19

			64QAM	75	0	75	0	20.49	19.39
				1	74	1	0	20.52	19.42
				75	0	75	0	20.46	19.36
			256QAM	1	74	1	0	18.51	17.41
				75	0	75	0	18.48	17.38
15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.5	22.4
				75	0	100	0	21.46	20.36
			16QAM	1	74	1	0	22.52	21.42
				75	0	100	0	20.5	19.4
			64QAM	1	74	1	0	20.58	19.48
				75	0	100	0	20.51	19.41
			256QAM	1	74	1	0	18.71	17.61
				75	0	100	0	18.45	17.35
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	23.44	22.34
				100	0	25	0	21.51	20.41
			16QAM	1	99	1	0	22.33	21.23
				100	0	25	0	20.45	19.35
			64QAM	1	99	1	0	20.22	19.12
				100	0	25	0	20.39	19.29
			256QAM	1	99	1	0	18.67	17.57
				100	0	25	0	18.5	17.4
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.51	22.41
				100	0	50	0	21.53	20.43
			16QAM	1	99	1	0	22.44	21.34
				100	0	50	0	20.54	19.44
			64QAM	1	99	1	0	20.64	19.54
				100	0	50	0	20.51	19.41
			256QAM	1	99	1	0	18.39	17.29
				100	0	50	0	18.49	17.39
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	23.55	22.45
				100	0	75	0	21.53	20.43
			16QAM	1	99	1	0	22.69	21.59
				100	0	75	0	20.48	19.38
			64QAM	1	99	1	0	20.66	19.56
				100	0	75	0	20.55	19.45
			256QAM	1	99	1	0	18.52	17.42
				100	0	75	0	18.47	17.37
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	23.58	22.48
				100	0	100	0	21.49	20.39
			16QAM	1	99	1	0	22.58	21.48
				100	0	100	0	20.53	19.43
			64QAM	1	99	1	0	20.68	19.58
				100	0	100	0	20.47	19.37



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			256QAM	1	99	1	0	18.45	17.35
				100	0	100	0	18.52	17.42

LTE Band 48C-EIRP
Limits: $\leq 23(\text{dBm}/10\text{MHz})$
Max ERP: 22.72(dBm/10MHz)

BW	PCC Freq (MHz)	SCC Freq (MHz)	Modulation	PCC RB	SCC RB	Conducted Power (dBm/ 10MHz)	Antenna Gain	EIRP (dBm/ 10MHz)	LIMIT (dBm/ 10MHz)	Margin
5MHz/ 20MHz	3615.8	3627.5	QPSK	1 RB high	1 RB low	23.81	-1.1	22.71	23	0.29
			QPSK	100% RB	100% RB	19.00	-1.1	17.90	23	5.10
			16QAM	1 RB high	1 RB low	22.82	-1.1	21.72	23	1.28
			16QAM	100% RB	100% RB	17.95	-1.1	16.85	23	6.15
			64QAM	1 RB high	1 RB low	20.83	-1.1	19.73	23	3.27
			64QAM	100% RB	100% RB	18.00	-1.1	16.90	23	6.10
			256QAM	1 RB high	1 RB low	18.81	-1.1	17.71	23	5.29
			256QAM	100% RB	100% RB	15.98	-1.1	14.88	23	8.12
10MHz/ 20MHz	3615.6	3630	QPSK	1 RB high	1 RB low	23.82	-1.1	22.72	23	0.28
			QPSK	100% RB	100% RB	18.06	-1.1	16.96	23	6.04
			16QAM	1 RB high	1 RB low	22.87	-1.1	21.77	23	1.23
			16QAM	100% RB	100% RB	17.00	-1.1	15.90	23	7.10
			64QAM	1 RB high	1 RB low	20.71	-1.1	19.61	23	3.39
			64QAM	100% RB	100% RB	16.97	-1.1	15.87	23	7.13
			256QAM	1 RB high	1 RB low	18.84	-1.1	17.74	23	5.26
			256QAM	100% RB	100% RB	14.99	-1.1	13.89	23	9.11
15MHz/ 20MHz	3615.3	3632.4	QPSK	1 RB high	1 RB low	23.70	-1.1	22.60	23	0.40
			QPSK	100% RB	100% RB	16.66	-1.1	15.56	23	7.44
			16QAM	1 RB high	1 RB low	22.73	-1.1	21.63	23	1.37
			16QAM	100% RB	100% RB	15.58	-1.1	14.48	23	8.52
			64QAM	1 RB high	1 RB low	20.57	-1.1	19.47	23	3.53
			64QAM	100% RB	100% RB	15.55	-1.1	14.45	23	8.55
			256QAM	1 RB high	1 RB low	18.74	-1.1	17.64	23	5.36
			256QAM	100% RB	100% RB	13.59	-1.1	12.49	23	10.51
20MHz/ 5MHz	3622.5	3634.2	QPSK	1 RB high	1 RB low	23.66	-1.1	22.56	23	0.44
			QPSK	100% RB	100% RB	18.83	-1.1	17.73	23	5.27
			16QAM	1 RB high	1 RB low	22.65	-1.1	21.55	23	1.45
			16QAM	100% RB	100% RB	17.82	-1.1	16.72	23	6.28
			64QAM	1 RB high	1 RB low	20.55	-1.1	19.45	23	3.55
			64QAM	100% RB	100% RB	17.85	-1.1	16.75	23	6.25
			256QAM	1 RB high	1 RB low	18.55	-1.1	17.45	23	5.55
			256QAM	100% RB	100% RB	15.83	-1.1	14.73	23	8.27
20MHz/ 10MHz	3620.1	3634.5	QPSK	1 RB high	1 RB low	23.66	-1.1	22.56	23	0.44
			QPSK	100% RB	100% RB	17.75	-1.1	16.65	23	6.35
			16QAM	1 RB high	1 RB low	22.67	-1.1	21.57	23	1.43

			16QAM	100% RB	100% RB	16.70	-1.1	15.60	23	7.40
			64QAM	1 RB high	1 RB low	20.54	-1.1	19.44	23	3.56
			64QAM	100% RB	100% RB	16.71	-1.1	15.61	23	7.39
			256QAM	1 RB high	1 RB low	18.57	-1.1	17.47	23	5.53
			256QAM	100% RB	100% RB	14.68	-1.1	13.58	23	9.42
20MHz/ 15MHz	3617.6	3634.7	QPSK	1 RB high	1 RB low	23.56	-1.1	22.46	23	0.54
			QPSK	100% RB	100% RB	16.53	-1.1	15.43	23	7.57
			16QAM	1 RB high	1 RB low	22.60	-1.1	21.50	23	1.50
			16QAM	100% RB	100% RB	15.43	-1.1	14.33	23	8.67
			64QAM	1 RB high	1 RB low	20.58	-1.1	19.48	23	3.52
			64QAM	100% RB	100% RB	15.36	-1.1	14.26	23	8.74
			256QAM	1 RB high	1 RB low	18.57	-1.1	17.47	23	5.53
			256QAM	100% RB	100% RB	13.41	-1.1	12.31	23	10.69
20MHz/ 20MHz	3615.1	3634.9	QPSK	1 RB high	1 RB low	23.48	-1.1	22.38	23	0.62
			QPSK	100% RB	100% RB	15.57	-1.1	14.47	23	8.53
			16QAM	1 RB high	1 RB low	22.51	-1.1	21.41	23	1.59
			16QAM	100% RB	100% RB	14.51	-1.1	13.41	23	9.59
			64QAM	1 RB high	1 RB low	20.63	-1.1	19.53	23	3.47
			64QAM	100% RB	100% RB	14.44	-1.1	13.34	23	9.66
			256QAM	1 RB high	1 RB low	18.54	-1.1	17.44	23	5.56
			256QAM	100% RB	100% RB	12.46	-1.1	11.36	23	11.64

Reference Measurement Results from 24T04Z102259:

LTE Band 7-EIRP

Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-1.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	21.95	20.95	20.08	16.95	20.45	19.45	18.58	15.45
		2535	22.21	21.21	20.37	17.20	20.71	19.71	18.87	15.70
		2502.5	21.82	20.73	19.98	16.82	20.32	19.23	18.48	15.32
	1 RB low	2567.5	21.95	20.98	20.14	16.96	20.45	19.48	18.64	15.46
		2535	22.19	21.19	20.41	17.21	20.69	19.69	18.91	15.71
		2502.5	21.68	20.54	20.01	16.63	20.18	19.04	18.51	15.13
	50% RB mid	2567.5	20.97	20.00	19.10	17.03	19.47	18.50	17.60	15.53
		2535	21.17	20.21	19.30	17.23	19.67	18.71	17.80	15.73
		2502.5	20.77	19.82	18.83	16.83	19.27	18.32	17.33	15.33
	100% RB	2567.5	21.00	19.95	19.02	16.99	19.50	18.45	17.52	15.49
		2535	21.19	20.13	19.22	17.18	19.69	18.63	17.72	15.68
		2502.5	20.80	19.73	18.80	16.81	19.30	18.23	17.30	15.31
10MHz	1 RB high	2565	21.94	21.01	19.84	17.07	20.44	19.51	18.34	15.57
		2535	22.27	21.24	20.11	17.32	20.77	19.74	18.61	15.82
		2505	21.91	20.88	19.83	17.00	20.41	19.38	18.33	15.50
	1 RB low	2565	21.95	20.96	19.74	17.06	20.45	19.46	18.24	15.56
		2535	22.22	21.18	20.00	17.25	20.72	19.68	18.50	15.75
		2505	21.64	20.61	19.69	16.70	20.14	19.11	18.19	15.20
	50% RB mid	2565	21.04	20.09	19.11	17.07	19.54	18.59	17.61	15.57
		2535	21.30	20.32	19.32	17.29	19.80	18.82	17.82	15.79
		2505	20.90	19.91	18.99	16.92	19.40	18.41	17.49	15.42
	100% RB	2565	21.03	20.07	19.03	17.02	19.53	18.57	17.53	15.52
		2535	21.26	20.28	19.22	17.22	19.76	18.78	17.72	15.72
		2505	20.87	19.89	18.86	16.86	19.37	18.39	17.36	15.36
15MHz	1 RB high	2562.5	21.95	21.34	20.39	17.29	20.45	19.84	18.89	15.79
		2535	22.28	21.64	20.65	17.54	20.78	20.14	19.15	16.04
		2507.5	21.98	21.40	20.34	17.30	20.48	19.90	18.84	15.80
	1 RB low	2562.5	22.07	21.48	20.38	17.39	20.57	19.98	18.88	15.89
		2535	22.16	21.52	20.64	17.47	20.66	20.02	19.14	15.97
		2507.5	21.72	21.14	20.31	17.01	20.22	19.64	18.81	15.51
	50% RB mid	2562.5	21.04	20.02	19.02	17.04	19.54	18.52	17.52	15.54
		2535	21.27	20.24	19.24	17.24	19.77	18.74	17.74	15.74
		2507.5	20.97	19.94	19.00	16.97	19.47	18.44	17.50	15.47
	100% RB	2562.5	21.04	20.05	19.05	17.07	19.54	18.55	17.55	15.57
		2535	21.25	20.30	19.27	17.28	19.75	18.80	17.77	15.78
		2507.5	20.93	19.95	18.97	16.95	19.43	18.45	17.47	15.45

20MHz	1 RB high	2560	22.01	21.58	19.96	16.99	20.51	20.08	18.46	15.49
		2535	22.31	21.97	20.24	17.28	20.81	20.47	18.74	15.78
		2510	21.99	21.63	19.87	16.98	20.49	20.13	18.37	15.48
	1 RB low	2560	22.09	21.69	20.22	17.08	20.59	20.19	18.72	15.58
		2535	22.11	21.78	20.53	17.07	20.61	20.28	19.03	15.57
		2510	21.65	21.27	20.21	16.58	20.15	19.77	18.71	15.08
	50% RB mid	2560	21.12	20.11	19.12	17.12	19.62	18.61	17.62	15.62
		2535	21.33	20.28	19.35	17.32	19.83	18.78	17.85	15.82
		2510	21.06	19.99	19.09	17.02	19.56	18.49	17.59	15.52
	100% RB	2560	21.13	20.11	19.11	17.11	19.63	18.61	17.61	15.61
		2535	21.30	20.30	19.30	17.29	19.80	18.80	17.80	15.79
		2510	21.03	20.01	19.03	17.02	19.53	18.51	17.53	15.52

LTE Band 12-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc = -3.3)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.44	22.48	21.30	18.41	17.99	17.03	15.85	12.96
		707.5	23.41	22.50	21.30	18.38	17.96	17.05	15.85	12.93
		699.7	23.32	22.41	21.29	18.38	17.87	16.96	15.84	12.93
	1 RB low	715.3	23.43	22.46	21.22	18.41	17.98	17.01	15.77	12.96
		707.5	23.39	22.50	21.15	18.40	17.94	17.05	15.70	12.95
		699.7	23.25	22.34	21.13	18.28	17.80	16.89	15.68	12.83
	50% RB mid	715.3	23.50	22.62	21.23	18.37	18.05	17.17	15.78	12.92
		707.5	23.50	22.61	21.23	18.37	18.05	17.16	15.78	12.92
		699.7	23.53	22.61	21.26	18.38	18.08	17.16	15.81	12.93
	100% RB	715.3	22.45	21.65	20.32	18.41	17.00	16.20	14.87	12.96
		707.5	22.42	21.63	20.35	18.40	16.97	16.18	14.90	12.95
		699.7	22.43	21.65	20.34	18.38	16.98	16.20	14.89	12.93
3MHz	1 RB high	714.5	23.42	22.49	21.26	18.43	17.97	17.04	15.81	12.98
		707.5	23.43	22.51	21.26	18.43	17.98	17.06	15.81	12.98
		700.5	23.35	22.39	21.12	18.34	17.90	16.94	15.67	12.89
	1 RB low	714.5	23.42	22.46	21.19	18.41	17.97	17.01	15.74	12.96
		707.5	23.46	22.50	21.20	18.42	18.01	17.05	15.75	12.97
		700.5	23.38	22.46	21.14	18.33	17.93	17.01	15.69	12.88
	50% RB mid	714.5	22.43	21.50	20.43	18.37	16.98	16.05	14.98	12.92
		707.5	22.42	21.51	20.43	18.40	16.97	16.06	14.98	12.95
		700.5	22.45	21.54	20.32	18.38	17.00	16.09	14.87	12.93
	100% RB	714.5	22.47	21.43	20.40	18.37	17.02	15.98	14.95	12.92
		707.5	22.48	21.43	20.45	18.40	17.03	15.98	15.00	12.95
		700.5	22.49	21.45	20.40	18.38	17.04	16.00	14.95	12.93
5MHz	1 RB high	713.5	23.57	22.56	21.71	18.58	18.12	17.11	16.26	13.13
		707.5	23.61	22.64	21.66	18.54	18.16	17.19	16.21	13.09
		701.5	23.54	22.60	21.65	18.58	18.09	17.15	16.20	13.13
	1 RB low	713.5	23.55	22.59	21.75	18.58	18.10	17.14	16.30	13.13
		707.5	23.63	22.67	21.71	18.57	18.18	17.22	16.26	13.12
		701.5	23.49	22.53	21.76	18.48	18.04	17.08	16.31	13.03
	50% RB mid	713.5	22.52	21.60	20.56	18.51	17.07	16.15	15.11	13.06
		707.5	22.51	21.62	20.61	18.54	17.06	16.17	15.16	13.09
		701.5	22.47	21.58	20.49	18.50	17.02	16.13	15.04	13.05
	100% RB	713.5	22.58	21.52	20.52	18.48	17.13	16.07	15.07	13.03
		707.5	22.58	21.50	20.58	18.53	17.13	16.05	15.13	13.08
		701.5	22.55	21.52	20.54	18.50	17.10	16.07	15.09	13.05
10MHz	1 RB high	711	23.58	22.57	21.36	18.59	18.13	17.12	15.91	13.14
		707.5	23.60	22.59	21.41	18.57	18.15	17.14	15.96	13.12

		704	23.47	22.54	21.38	18.53	18.02	17.09	15.93	13.08
	1 RB low	711	23.52	22.59	21.24	18.56	18.07	17.14	15.79	13.11
		707.5	23.53	22.52	21.26	18.53	18.08	17.07	15.81	13.08
		704	23.40	22.50	21.19	18.42	17.95	17.05	15.74	12.97
	50% RB mid	711	22.54	21.63	20.50	18.52	17.09	16.18	15.05	13.07
		707.5	22.56	21.65	20.53	18.54	17.11	16.20	15.08	13.09
		704	22.55	21.63	20.53	18.52	17.10	16.18	15.08	13.07
	100% RB	711	22.57	21.58	20.47	18.43	17.12	16.13	15.02	12.98
		707.5	22.59	21.62	20.53	18.49	17.14	16.17	15.08	13.04
		704	22.53	21.56	20.46	18.43	17.08	16.11	15.01	12.98

LTE Band 13-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc = -3.1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.12	22.13	21.28	18.19	17.87	16.88	16.03	12.94
		782	23.13	22.16	21.31	18.19	17.88	16.91	16.06	12.94
		779.5	23.19	22.03	21.33	18.24	17.94	16.78	16.08	12.99
	1 RB low	784.5	23.20	22.21	21.32	18.23	17.95	16.96	16.07	12.98
		782	23.14	22.17	21.33	18.24	17.89	16.92	16.08	12.99
		779.5	23.20	22.15	21.40	18.18	17.95	16.90	16.15	12.93
	50% RB mid	784.5	22.04	21.17	20.21	18.18	16.79	15.92	14.96	12.93
		782	22.09	21.20	20.25	18.20	16.84	15.95	15.00	12.95
		779.5	22.12	21.18	20.25	18.23	16.87	15.93	15.00	12.98
	100% RB	784.5	22.11	21.07	20.17	18.15	16.86	15.82	14.92	12.90
		782	22.15	21.09	20.19	18.16	16.90	15.84	14.94	12.91
		779.5	22.15	21.11	20.22	18.21	16.90	15.86	14.97	12.96
10MHz	1 RB high	782	23.16	22.12	21.05	18.20	17.91	16.87	15.80	12.95
	1 RB low	782	23.10	22.22	21.19	18.18	17.85	16.97	15.94	12.93
	50% RB mid	782	22.16	21.29	20.20	18.24	16.91	16.04	14.95	12.99
	100% RB	782	22.16	21.16	20.12	18.09	16.91	15.91	14.87	12.84

LTE Band 25-EIRP
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc = -1.6)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.48	22.63	21.45	18.53	21.88	21.03	19.85	16.93
		1882.5	23.62	22.76	21.54	18.61	22.02	21.16	19.94	17.01
		1850.7	23.55	22.60	21.96	18.67	21.95	21.00	20.36	17.07
	1 RB low	1914.3	23.47	22.65	21.30	18.50	21.87	21.05	19.70	16.90
		1882.5	23.61	22.78	21.42	18.58	22.01	21.18	19.82	16.98
		1850.7	23.56	22.60	21.90	18.68	21.96	21.00	20.30	17.08
	50% RB mid	1914.3	23.60	22.70	21.40	18.50	22.00	21.10	19.80	16.90
		1882.5	23.64	22.77	21.49	18.61	22.04	21.17	19.89	17.01
		1850.7	23.65	22.79	21.52	18.55	22.05	21.19	19.92	16.95
	100% RB	1914.3	22.54	21.71	20.49	18.54	20.94	20.11	18.89	16.94
		1882.5	22.57	21.75	20.56	18.60	20.97	20.15	18.96	17.00
		1850.7	22.62	21.84	20.57	18.65	21.02	20.24	18.97	17.05
3MHz	1 RB high	1913.5	23.51	22.55	21.44	18.54	21.91	20.95	19.84	16.94
		1882.5	23.57	22.62	21.49	18.62	21.97	21.02	19.89	17.02
		1851.5	23.58	22.60	21.50	18.64	21.98	21.00	19.90	17.04
	1 RB low	1913.5	23.49	22.54	21.28	18.50	21.89	20.94	19.68	16.90
		1882.5	23.62	22.66	21.35	18.64	22.02	21.06	19.75	17.04
		1851.5	23.62	22.65	21.38	18.63	22.02	21.05	19.78	17.03
	50% RB mid	1913.5	22.51	21.57	20.61	18.53	20.91	19.97	19.01	16.93
		1882.5	22.56	21.68	20.67	18.62	20.96	20.08	19.07	17.02
		1851.5	22.58	21.69	20.56	18.65	20.98	20.09	18.96	17.05
	100% RB	1913.5	22.53	21.51	20.47	18.45	20.93	19.91	18.87	16.85
		1882.5	22.58	21.54	20.62	18.60	20.98	19.94	19.02	17.00
		1851.5	22.63	21.60	20.65	18.61	21.03	20.00	19.05	17.01
5MHz	1 RB high	1912.5	23.69	22.70	21.81	18.67	22.09	21.10	20.21	17.07
		1882.5	23.68	22.71	21.82	18.75	22.08	21.11	20.22	17.15
		1852.5	23.69	22.72	21.82	18.74	22.09	21.12	20.22	17.14
	1 RB low	1912.5	23.63	22.64	21.86	18.69	22.03	21.04	20.26	17.09
		1882.5	23.71	22.74	21.88	18.74	22.11	21.14	20.28	17.14
		1852.5	23.75	22.80	21.89	18.77	22.15	21.20	20.29	17.17
	50% RB mid	1912.5	22.55	21.65	20.73	18.66	20.95	20.05	19.13	17.06
		1882.5	22.64	21.75	20.80	18.73	21.04	20.15	19.20	17.13
		1852.5	22.61	21.73	20.71	18.75	21.01	20.13	19.11	17.15
	100% RB	1912.5	22.63	21.57	20.66	18.66	21.03	19.97	19.06	17.06
		1882.5	22.68	21.61	20.68	18.68	21.08	20.01	19.08	17.08
		1852.5	22.69	21.63	20.73	18.71	21.09	20.03	19.13	17.11
10MHz	1 RB high	1910	23.60	22.68	21.52	18.71	22.00	21.08	19.92	17.11
		1882.5	23.67	22.70	21.61	18.79	22.07	21.10	20.01	17.19

		1855	23.70	22.69	21.58	18.77	22.10	21.09	19.98	17.17
		1910	23.64	22.68	21.35	18.71	22.04	21.08	19.75	17.11
		1882.5	23.63	22.67	21.47	18.73	22.03	21.07	19.87	17.13
		1855	23.70	22.68	21.44	18.78	22.10	21.08	19.84	17.18
		1910	22.57	21.69	20.62	18.68	20.97	20.09	19.02	17.08
		1882.5	22.65	21.74	20.74	18.75	21.05	20.14	19.14	17.15
		1855	22.65	21.67	20.72	18.72	21.05	20.07	19.12	17.12
		1910	22.63	21.68	20.67	18.63	21.03	20.08	19.07	17.03
		1882.5	22.64	21.67	20.68	18.67	21.04	20.07	19.08	17.07
		1855	22.68	21.69	20.68	18.66	21.08	20.09	19.08	17.06
15MHz	1 RB high	1907.5	23.59	22.94	22.01	18.94	21.99	21.34	20.41	17.34
		1882.5	23.65	23.06	22.06	18.98	22.05	21.46	20.46	17.38
		1857.5	23.66	23.06	22.09	19.02	22.06	21.46	20.49	17.42
	1 RB low	1907.5	23.57	22.98	22.01	18.95	21.97	21.38	20.41	17.35
		1882.5	23.62	23.02	22.02	18.98	22.02	21.42	20.42	17.38
		1857.5	23.70	23.08	22.03	19.06	22.10	21.48	20.43	17.46
	50% RB mid	1907.5	22.61	21.63	20.65	18.68	21.01	20.03	19.05	17.08
		1882.5	22.66	21.69	20.67	18.72	21.06	20.09	19.07	17.12
		1857.5	22.63	21.65	20.67	18.67	21.03	20.05	19.07	17.07
	100% RB	1907.5	22.64	21.67	20.71	18.72	21.04	20.07	19.11	17.12
		1882.5	22.66	21.69	20.71	18.72	21.06	20.09	19.11	17.12
		1857.5	22.71	21.71	20.75	18.76	21.11	20.11	19.15	17.16
20MHz	1 RB high	1905	23.60	23.14	21.55	18.65	22.00	21.54	19.95	17.05
		1882.5	23.65	23.29	21.59	18.68	22.05	21.69	19.99	17.08
		1860	23.64	23.29	21.58	18.69	22.04	21.69	19.98	17.09
	1 RB low	1905	23.66	23.27	21.80	18.72	22.06	21.67	20.20	17.12
		1882.5	23.62	23.28	21.93	18.64	22.02	21.68	20.33	17.04
		1860	23.66	23.27	21.88	18.68	22.06	21.67	20.28	17.08
	50% RB mid	1905	22.64	21.69	20.69	18.75	21.04	20.09	19.09	17.15
		1882.5	22.70	21.72	20.73	18.77	21.10	20.12	19.13	17.17
		1860	22.72	21.74	20.74	18.76	21.12	20.14	19.14	17.16
	100% RB	1905	22.62	21.64	20.69	18.65	21.02	20.04	19.09	17.05
		1882.5	22.68	21.68	20.71	18.69	21.08	20.08	19.11	17.09
		1860	22.77	21.76	20.76	18.76	21.17	20.16	19.16	17.16

LTE Band 26(814MHz~824MHz)-ERP
Limits: $\leq 50\text{dBm}(100\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc = -3.8)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.31	22.82	21.99	18.72	17.36	16.87	16.04	12.77
		819	23.27	22.53	21.49	18.55	17.32	16.58	15.54	12.60
		814.7	23.20	22.59	21.83	18.59	17.25	16.64	15.88	12.64
	1 RB low	823.3	23.29	22.83	21.93	18.73	17.34	16.88	15.98	12.78
		819	23.23	22.53	21.30	18.54	17.28	16.58	15.35	12.59
		814.7	23.17	22.44	21.83	18.60	17.22	16.49	15.88	12.65
	50% RB mid	823.3	23.31	22.77	21.74	18.62	17.36	16.82	15.79	12.67
		819	23.36	22.66	21.67	18.56	17.41	16.71	15.72	12.61
		814.7	23.40	22.66	21.79	18.53	17.45	16.71	15.84	12.58
	100% RB	823.3	22.60	21.50	20.66	18.59	16.65	15.55	14.71	12.64
		819	22.51	21.76	20.59	18.54	16.56	15.81	14.64	12.59
		814.7	22.52	21.43	20.55	18.47	16.57	15.48	14.60	12.52
3MHz	1 RB high	822.5	23.27	22.62	21.41	18.62	17.32	16.67	15.46	12.67
		819	23.23	22.51	21.44	18.56	17.28	16.56	15.49	12.61
		815.5	23.31	22.50	21.39	18.51	17.36	16.55	15.44	12.56
	1 RB low	822.5	23.26	22.66	21.28	18.58	17.31	16.71	15.33	12.63
		819	23.28	22.49	21.24	18.47	17.33	16.54	15.29	12.52
		815.5	23.30	22.50	21.20	18.49	17.35	16.55	15.25	12.54
	50% RB mid	822.5	22.58	21.67	20.67	18.65	16.63	15.72	14.72	12.70
		819	22.51	21.59	20.59	18.53	16.56	15.64	14.64	12.58
		815.5	22.45	21.57	20.42	18.55	16.50	15.62	14.47	12.60
	100% RB	822.5	22.64	21.60	20.64	18.61	16.69	15.65	14.69	12.66
		819	22.56	21.51	20.54	18.51	16.61	15.56	14.59	12.56
		815.5	22.53	21.52	20.54	18.52	16.58	15.57	14.59	12.57
5MHz	1 RB high	821.5	23.45	22.67	21.82	18.74	17.50	16.72	15.87	12.79
		819	23.45	22.68	21.93	18.74	17.50	16.73	15.98	12.79
		816.5	23.43	22.67	21.85	18.70	17.48	16.72	15.90	12.75
	1 RB low	821.5	23.47	22.56	21.88	18.61	17.52	16.61	15.93	12.66
		819	23.51	22.56	21.90	18.62	17.56	16.61	15.95	12.67
		816.5	23.50	22.60	21.87	18.67	17.55	16.65	15.92	12.72
	50% RB mid	821.5	22.65	21.75	20.85	18.74	16.70	15.80	14.90	12.79
		819	22.61	21.67	20.79	18.64	16.66	15.72	14.84	12.69
		816.5	22.56	21.67	20.65	18.64	16.61	15.72	14.70	12.69
	100% RB	821.5	22.70	21.67	20.72	18.69	16.75	15.72	14.77	12.74
		819	22.66	21.64	20.68	18.64	16.71	15.69	14.73	12.69
		816.5	22.65	21.61	20.66	18.62	16.70	15.66	14.71	12.67
10MHz	1 RB high	819	23.46	22.70	21.51	18.76	17.51	16.75	15.56	12.81
	1 RB low	819	23.50	22.57	21.41	18.61	17.55	16.62	15.46	12.66



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	50% RB mid	819	22.73	21.74	20.80	18.73	16.78	15.79	14.85	12.78
	100% RB	819	22.73	21.76	20.72	18.70	16.78	15.81	14.77	12.75

LTE Band 26(824MHz-849MHz) -ERP
Limits: $\leq 38.45\text{dBm}(7\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-3.8)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.15	22.59	21.37	18.50	17.20	16.64	15.42	12.55
		836.5	23.31	22.58	21.61	18.36	17.36	16.63	15.66	12.41
		824.7	23.19	22.60	21.99	18.72	17.24	16.65	16.04	12.77
	1 RB low	848.3	23.13	22.54	21.38	18.47	17.18	16.59	15.43	12.52
		836.5	23.33	22.67	21.52	18.39	17.38	16.72	15.57	12.44
		824.7	23.19	22.60	21.93	18.69	17.24	16.65	15.98	12.74
	50% RB mid	848.3	23.22	22.62	21.74	18.56	17.27	16.67	15.79	12.61
		836.5	23.37	22.68	21.70	18.50	17.42	16.73	15.75	12.55
		824.7	23.35	22.68	21.63	18.57	17.40	16.73	15.68	12.62
	100% RB	848.3	22.46	21.40	20.58	18.51	16.51	15.45	14.63	12.56
		836.5	22.51	21.38	20.75	18.46	16.56	15.43	14.80	12.51
		824.7	22.52	21.70	20.65	18.52	16.57	15.75	14.70	12.57
3MHz	1 RB high	847.5	23.15	22.45	21.28	18.48	17.20	16.50	15.33	12.53
		836.5	23.36	22.45	21.33	18.51	17.41	16.50	15.38	12.56
		825.5	23.31	22.56	21.41	18.62	17.36	16.61	15.46	12.67
	1 RB low	847.5	23.22	22.47	21.28	18.48	17.27	16.52	15.33	12.53
		836.5	23.37	22.49	21.30	18.52	17.42	16.54	15.35	12.57
		825.5	23.29	22.63	21.39	18.59	17.34	16.68	15.44	12.64
	50% RB mid	847.5	22.50	21.55	20.59	18.52	16.55	15.60	14.64	12.57
		836.5	22.48	21.58	20.56	18.53	16.53	15.63	14.61	12.58
		825.5	22.55	21.63	20.53	18.58	16.60	15.68	14.58	12.63
	100% RB	847.5	22.52	21.50	20.44	18.49	16.57	15.55	14.49	12.54
		836.5	22.55	21.48	20.54	18.52	16.60	15.53	14.59	12.57
		825.5	22.58	21.55	20.62	18.58	16.63	15.60	14.67	12.63
5MHz	1 RB high	846.5	23.44	22.54	21.67	18.63	17.49	16.59	15.72	12.68
		836.5	23.59	22.58	21.83	18.68	17.64	16.63	15.88	12.73
		826.5	23.64	22.77	22.00	18.84	17.69	16.82	16.05	12.89
	1 RB low	846.5	23.47	22.52	21.81	18.58	17.52	16.57	15.86	12.63
		836.5	23.65	22.63	21.85	18.73	17.70	16.68	15.90	12.78
		826.5	23.52	22.74	22.02	18.78	17.57	16.79	16.07	12.83
	50% RB mid	846.5	22.55	21.63	20.72	18.60	16.60	15.68	14.77	12.65
		836.5	22.59	21.68	20.70	18.65	16.64	15.73	14.75	12.70
		826.5	22.63	21.74	20.75	18.71	16.68	15.79	14.80	12.76
	100% RB	846.5	22.63	21.57	20.64	18.61	16.68	15.62	14.69	12.66
		836.5	22.64	21.57	20.65	18.61	16.69	15.62	14.70	12.66
		826.5	22.70	21.64	20.71	18.69	16.75	15.69	14.76	12.74
10MHz	1 RB high	844	23.35	22.55	21.30	18.64	17.40	16.60	15.35	12.69
		836.5	23.53	22.56	21.51	18.66	17.58	16.61	15.56	12.71

		829	23.57	22.65	21.44	18.69	17.62	16.70	15.49	12.74
		844	23.54	22.56	21.38	18.61	17.59	16.61	15.43	12.66
		836.5	23.62	22.74	21.42	18.78	17.67	16.79	15.47	12.83
		829	23.40	22.67	21.47	18.67	17.45	16.72	15.52	12.72
		844	22.58	21.65	20.61	18.60	16.63	15.70	14.66	12.65
		836.5	22.65	21.76	20.70	18.70	16.70	15.81	14.75	12.75
		829	22.76	21.84	20.80	18.80	16.81	15.89	14.85	12.85
		844	22.59	21.62	20.58	18.55	16.64	15.67	14.63	12.60
		836.5	22.67	21.70	20.64	18.63	16.72	15.75	14.69	12.68
		829	22.74	21.79	20.75	18.70	16.79	15.84	14.80	12.75
		841.5	23.38	22.83	21.97	18.88	17.43	16.88	16.02	12.93
		836.5	23.49	22.84	21.91	18.80	17.54	16.89	15.96	12.85
15MHz	1 RB high	831.5	23.54	22.90	21.96	18.84	17.59	16.95	16.01	12.89
		841.5	23.54	22.94	21.91	18.95	17.59	16.99	15.96	13.00
		836.5	23.61	23.00	21.92	18.98	17.66	17.05	15.97	13.03
	1 RB low	831.5	23.42	22.97	21.90	18.97	17.47	17.02	15.95	13.02
		841.5	22.54	21.57	20.54	18.58	16.59	15.62	14.59	12.63
		836.5	22.58	21.62	20.58	18.62	16.63	15.67	14.63	12.67
	50% RB mid	831.5	22.63	21.70	20.63	18.70	16.68	15.75	14.68	12.75
		841.5	22.58	21.61	20.63	18.61	16.63	15.66	14.68	12.66
		836.5	22.64	21.64	20.66	18.65	16.69	15.69	14.71	12.70
	100% RB	831.5	22.71	21.72	20.71	18.68	16.76	15.77	14.76	12.73

LTE Band 30
Limits: ≤ 24dBm/5MHz

Bandwidth	Frequency (MHz)	Modulation	RB size/offset	Conducted Power (dBm/5MHz)	EIRP (dBm/5MHz) (Gt-Lc =-3.4)	Margin
5MHz	2307.5	QPSK	1 RB low	23.94	20.54	3.46
			1 RB high	23.99	20.59	3.41
			100% RB	21.96	18.56	5.44
		16QAM	1 RB low	22.94	19.54	4.46
			1 RB high	22.94	19.54	4.46
			100% RB	21.13	17.73	6.27
		64QAM	1 RB low	22.24	18.84	5.16
			1 RB high	22.28	18.88	5.12
			100% RB	20.12	16.72	7.28
		256QAM	1 RB low	19.12	15.72	8.28
			1 RB high	19.14	15.74	8.26
			100% RB	18.09	14.69	9.31
	2310	QPSK	1 RB low	23.89	20.49	3.51
			1 RB high	24.01	20.61	3.39
			100% RB	22.02	18.62	5.38
		16QAM	1 RB low	23.11	19.71	4.29
			1 RB high	23.12	19.72	4.28
			100% RB	21.22	17.82	6.18
		64QAM	1 RB low	22.34	18.94	5.06
			1 RB high	22.41	19.01	4.99
			100% RB	20.18	16.78	7.22
		256QAM	1 RB low	19.35	15.95	8.05
			1 RB high	19.3	15.9	8.1
			100% RB	18.14	14.74	9.26
	2312.5	QPSK	1 RB low	23.92	20.52	3.48
			1 RB high	23.86	20.46	3.54
			100% RB	22.03	18.63	5.37
		16QAM	1 RB low	23.13	19.73	4.27
			1 RB high	23.02	19.62	4.38
			100% RB	21.26	17.86	6.14
		64QAM	1 RB low	22.39	18.99	5.01
			1 RB high	22.29	18.89	5.11
			100% RB	20.22	16.82	7.18
		256QAM	1 RB low	19.35	15.95	8.05
			1 RB high	19.21	15.81	8.19
			100% RB	18.12	14.72	9.28
10MHz	2310	QPSK	1 RB low	23.96	20.56	3.44

			1 RB high	23.93	20.53	3.47
			100% RB	20.21	16.81	7.19
		16QAM	1 RB low	23.15	19.75	4.25
			1 RB high	23.11	19.71	4.29
			100% RB	19.36	15.96	8.04
		64QAM	1 RB low	22.14	18.74	5.26
			1 RB high	22.19	18.79	5.21
			100% RB	18.34	14.94	9.06
		256QAM	1 RB low	19.13	15.73	8.27
			1 RB high	19.1	15.7	8.3
			100% RB	16.27	12.87	11.13

LTE Band 41-EIRP
Limits: $\leq 33\text{dBm}(2\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc = -1.1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.14	24.35	23.99	20.59	24.04	23.25	22.89	19.49
		2593	25.63	24.82	24.22	20.82	24.53	23.72	23.12	19.72
		2498.5	25.44	24.29	23.89	20.50	24.34	23.19	22.79	19.40
	1 RB low	2687.5	25.12	24.30	23.85	20.63	24.02	23.20	22.75	19.53
		2593	25.61	24.77	24.10	20.78	24.51	23.67	23.00	19.68
		2498.5	25.37	24.25	23.78	20.43	24.27	23.15	22.68	19.33
	50% RB mid	2687.5	24.03	23.54	22.48	20.42	22.93	22.44	21.38	19.32
		2593	24.52	23.68	22.62	20.54	23.42	22.58	21.52	19.44
		2498.5	24.27	23.41	22.26	20.27	23.17	22.31	21.16	19.17
	100% RB	2687.5	24.07	23.45	22.38	20.38	22.97	22.35	21.28	19.28
		2593	24.56	23.60	22.52	20.52	23.46	22.50	21.42	19.42
		2498.5	24.27	23.35	22.26	20.26	23.17	22.25	21.16	19.16
10MHz	1 RB high	2685	25.10	24.21	23.35	20.49	24.00	23.11	22.25	19.39
		2593	25.54	24.67	23.50	20.68	24.44	23.57	22.40	19.58
		2501	25.41	24.55	23.37	20.50	24.31	23.45	22.27	19.40
	1 RB low	2685	25.11	24.21	23.43	20.66	24.01	23.11	22.33	19.56
		2593	25.55	24.66	23.64	20.68	24.45	23.56	22.54	19.58
		2501	25.22	24.37	23.45	20.33	24.12	23.27	22.35	19.23
	50% RB mid	2685	24.06	23.49	22.40	20.41	22.96	22.39	21.30	19.31
		2593	24.53	23.60	22.47	20.53	23.43	22.50	21.37	19.43
		2501	24.39	23.36	22.31	20.28	23.29	22.26	21.21	19.18
	100% RB	2685	24.10	23.46	22.44	20.41	23.00	22.36	21.34	19.31
		2593	24.55	23.59	22.55	20.50	23.45	22.49	21.45	19.40
		2501	24.28	23.39	22.31	20.29	23.18	22.29	21.21	19.19
15MHz	1 RB high	2682.5	25.15	24.32	23.68	20.57	24.05	23.22	22.58	19.47
		2593	25.61	24.77	23.85	20.77	24.51	23.67	22.75	19.67
		2503.5	25.48	24.63	23.70	20.66	24.38	23.53	22.60	19.56
	1 RB low	2682.5	25.23	24.38	23.61	20.85	24.13	23.28	22.51	19.75
		2593	25.60	24.76	23.82	20.81	24.50	23.66	22.72	19.71
		2503.5	25.27	24.40	23.72	20.44	24.17	23.30	22.62	19.34
	50% RB mid	2682.5	24.08	23.54	22.45	20.46	22.98	22.44	21.35	19.36
		2593	24.53	23.61	22.50	20.51	23.43	22.51	21.40	19.41
		2503.5	24.41	23.41	22.36	20.30	23.31	22.31	21.26	19.20
	100% RB	2682.5	24.12	23.53	22.53	20.53	23.02	22.43	21.43	19.43
		2593	24.54	23.56	22.59	20.54	23.44	22.46	21.49	19.44
		2503.5	24.39	23.39	22.40	20.35	23.29	22.29	21.30	19.25
20MHz	1 RB high	2680	25.15	24.47	23.70	20.81	24.05	23.37	22.60	19.71
		2593	25.67	24.96	23.90	21.04	24.57	23.86	22.80	19.94

		2506	25.57	24.85	23.84	21.00	24.47	23.75	22.74	19.90
	1 RB low	2680	25.22	24.53	23.59	21.02	24.12	23.43	22.49	19.92
		2593	25.61	24.88	23.81	21.01	24.51	23.78	22.71	19.91
		2506	25.25	24.57	23.76	20.63	24.15	23.47	22.66	19.53
	50% RB mid	2680	24.09	23.65	22.45	20.52	22.99	22.55	21.35	19.42
		2593	24.56	23.63	22.48	20.47	23.46	22.53	21.38	19.37
		2506	24.51	23.49	22.54	20.42	23.41	22.39	21.44	19.32
	100% RB	2680	24.15	23.58	22.55	20.50	23.05	22.48	21.45	19.40
		2593	24.58	23.60	22.48	20.49	23.48	22.50	21.38	19.39
		2506	24.43	23.43	22.42	20.41	23.33	22.33	21.32	19.31

LTE Band 66-EIRP
Limits: $\leq 30\text{dBm}(1\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-2.6)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.30	22.32	21.22	18.29	20.70	19.72	18.62	15.69
		1745	23.32	22.35	21.25	18.33	20.72	19.75	18.65	15.73
		1710.7	23.26	22.38	21.64	18.37	20.66	19.78	19.04	15.77
	1 RB low	1779.3	23.28	22.29	21.09	18.28	20.68	19.69	18.49	15.68
		1745	23.30	22.33	21.14	18.36	20.70	19.73	18.54	15.76
		1710.7	23.27	22.41	21.04	18.26	20.67	19.81	18.44	15.66
	50% RB mid	1779.3	23.35	22.52	21.18	18.28	20.75	19.92	18.58	15.68
		1745	23.32	22.50	21.12	18.27	20.72	19.90	18.52	15.67
		1710.7	23.34	22.48	21.18	18.25	20.74	19.88	18.58	15.65
	100% RB	1779.3	22.32	21.22	20.21	18.29	19.72	18.62	17.61	15.69
		1745	22.34	21.23	20.22	18.27	19.74	18.63	17.62	15.67
		1710.7	22.27	21.45	20.32	18.26	19.67	18.85	17.72	15.66
3MHz	1 RB high	1778.5	23.29	22.31	21.55	18.74	20.69	19.71	18.95	16.14
		1745	23.34	22.36	21.58	18.77	20.74	19.76	18.98	16.17
		1711.5	23.29	22.33	21.18	18.29	20.69	19.73	18.58	15.69
	1 RB low	1778.5	23.30	22.34	21.91	18.71	20.70	19.74	19.31	16.11
		1745	23.32	22.36	21.95	18.74	20.72	19.76	19.35	16.14
		1711.5	23.28	22.33	21.04	18.27	20.68	19.73	18.44	15.67
	50% RB mid	1778.5	22.27	21.35	20.38	18.29	19.67	18.75	17.78	15.69
		1745	22.27	21.34	20.34	18.27	19.67	18.74	17.74	15.67
		1711.5	22.29	21.33	20.25	18.24	19.69	18.73	17.65	15.64
	100% RB	1778.5	22.33	21.28	20.37	18.25	19.73	18.68	17.77	15.65
		1745	22.31	21.26	20.33	18.26	19.71	18.66	17.73	15.66
		1711.5	22.30	21.26	20.30	18.27	19.70	18.66	17.70	15.67
5MHz	1 RB high	1777.5	23.47	22.49	21.57	18.43	20.87	19.89	18.97	15.83
		1745	23.43	22.46	21.57	18.44	20.83	19.86	18.97	15.84
		1712.5	23.42	22.43	21.55	18.48	20.82	19.83	18.95	15.88
	1 RB low	1777.5	23.41	22.44	21.60	18.42	20.81	19.84	19.00	15.82
		1745	23.42	22.46	21.62	18.44	20.82	19.86	19.02	15.84
		1712.5	23.40	22.42	21.61	18.45	20.80	19.82	19.01	15.85
	50% RB mid	1777.5	22.36	21.44	20.52	18.43	19.76	18.84	17.92	15.83
		1745	22.35	21.45	20.51	18.43	19.75	18.85	17.91	15.83
		1712.5	22.32	21.39	20.40	18.42	19.72	18.79	17.80	15.82
	100% RB	1777.5	22.40	21.35	20.43	18.41	19.80	18.75	17.83	15.81
		1745	22.41	21.33	20.41	18.39	19.81	18.73	17.81	15.79
		1712.5	22.38	21.32	20.41	18.39	19.78	18.72	17.81	15.79
10MHz	1 RB high	1775	23.43	22.38	21.65	18.86	20.83	19.78	19.05	16.26
		1745	23.41	22.44	21.67	18.89	20.81	19.84	19.07	16.29

		1715	23.34	22.41	21.64	18.83	20.74	19.81	19.04	16.23
		1775	23.37	22.41	21.62	18.84	20.77	19.81	19.02	16.24
		1745	23.35	22.38	21.62	18.85	20.75	19.78	19.02	16.25
		1715	23.32	22.34	21.57	18.80	20.72	19.74	18.97	16.20
		1775	22.41	21.45	20.46	18.38	19.81	18.85	17.86	15.78
		1745	22.37	21.42	20.42	18.35	19.77	18.82	17.82	15.75
		1715	22.38	21.39	20.41	18.30	19.78	18.79	17.81	15.70
		1775	22.43	21.45	20.42	18.41	19.83	18.85	17.82	15.81
		1745	22.37	21.40	20.38	18.41	19.77	18.80	17.78	15.81
		1715	22.36	21.40	20.36	18.40	19.76	18.80	17.76	15.80
		1772.5	23.32	22.74	21.78	18.70	20.72	20.14	19.18	16.10
		1745	23.40	22.80	21.81	18.74	20.80	20.20	19.21	16.14
15MHz	1 RB high	1717.5	23.34	22.67	21.62	18.82	20.74	20.07	19.02	16.22
		1772.5	23.30	22.70	21.75	18.68	20.70	20.10	19.15	16.08
		1745	23.29	22.68	21.77	18.63	20.69	20.08	19.17	16.03
	1 RB low	1717.5	23.32	22.74	21.89	18.83	20.72	20.14	19.29	16.23
		1772.5	22.40	21.40	20.40	18.38	19.80	18.80	17.80	15.78
		1745	22.38	21.37	20.37	18.37	19.78	18.77	17.77	15.77
	50% RB mid	1717.5	22.35	21.36	20.39	18.35	19.75	18.76	17.79	15.75
		1772.5	22.43	21.44	20.47	18.47	19.83	18.84	17.87	15.87
		1745	22.39	21.41	20.45	18.42	19.79	18.81	17.85	15.82
	100% RB	1717.5	22.38	21.43	20.42	18.43	19.78	18.83	17.82	15.83
		1770	23.42	22.99	21.24	18.38	20.82	20.39	18.64	15.78
		1745	23.46	23.09	21.32	18.42	20.86	20.49	18.72	15.82
		1720	23.33	22.92	21.20	18.28	20.73	20.32	18.60	15.68
20MHz	1 RB high	1770	23.33	22.88	21.55	18.33	20.73	20.28	18.95	15.73
		1745	23.24	22.85	21.68	18.27	20.64	20.25	19.08	15.67
		1720	23.28	22.94	21.61	18.24	20.68	20.34	19.01	15.64
	1 RB low	1770	22.38	21.41	20.42	18.46	19.78	18.81	17.82	15.86
		1745	22.46	21.42	20.45	18.45	19.86	18.82	17.85	15.85
		1720	22.48	21.39	20.46	18.44	19.88	18.79	17.86	15.84
	50% RB mid	1770	22.39	21.40	20.39	18.39	19.79	18.80	17.79	15.79
		1745	22.44	21.45	20.45	18.45	19.84	18.85	17.85	15.85
		1720	22.43	21.39	20.42	18.40	19.83	18.79	17.82	15.80
	100% RB	1770	22.39	21.40	20.39	18.39	19.79	18.80	17.79	15.79
		1745	22.44	21.45	20.45	18.45	19.84	18.85	17.85	15.85
		1720	22.43	21.39	20.42	18.40	19.83	18.79	17.82	15.80

LTE Band 71-ERP
Limits: $\leq 34.77\text{dBm}(3\text{W})$

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-3.4)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.66	21.61	20.81	17.69	17.11	16.06	15.26	12.14
		680.5	22.68	21.68	20.83	17.70	17.13	16.13	15.28	12.15
		665.5	22.61	21.56	20.69	17.58	17.06	16.01	15.14	12.03
	1 RB low	695.5	22.63	21.68	20.85	17.73	17.08	16.13	15.30	12.18
		680.5	22.66	21.67	20.87	17.69	17.11	16.12	15.32	12.14
		665.5	22.62	21.64	20.74	17.58	17.07	16.09	15.19	12.03
	50% RB mid	695.5	21.55	20.63	19.71	17.66	16.00	15.08	14.16	12.11
		680.5	21.53	20.62	19.70	17.65	15.98	15.07	14.15	12.10
		665.5	21.59	20.65	19.69	17.66	16.04	15.10	14.14	12.11
	100% RB	695.5	21.59	20.53	19.60	17.60	16.04	14.98	14.05	12.05
		680.5	21.56	20.51	19.58	17.59	16.01	14.96	14.03	12.04
		665.5	21.65	20.62	19.69	17.64	16.10	15.07	14.14	12.09
10MHz	1 RB high	693	22.51	21.53	20.49	17.68	16.96	15.98	14.94	12.13
		680.5	22.56	21.64	20.58	17.74	17.01	16.09	15.03	12.19
		668	22.36	21.46	20.32	17.51	16.81	15.91	14.77	11.96
	1 RB low	693	22.60	21.63	20.38	17.73	17.05	16.08	14.83	12.18
		680.5	22.41	21.47	20.40	17.55	16.86	15.92	14.85	12.00
		668	22.47	21.60	20.17	17.56	16.92	16.05	14.62	12.01
	50% RB mid	693	21.60	20.68	19.69	17.68	16.05	15.13	14.14	12.13
		680.5	21.55	20.61	19.65	17.63	16.00	15.06	14.10	12.08
		668	21.48	20.65	19.63	17.64	15.93	15.10	14.08	12.09
	100% RB	693	21.59	20.65	19.63	17.63	16.04	15.10	14.08	12.08
		680.5	21.52	20.54	19.54	17.52	15.97	14.99	13.99	11.97
		668	21.50	20.53	19.52	17.53	15.95	14.98	13.97	11.98
15MHz	1 RB high	690.5	22.48	21.84	20.96	17.90	16.93	16.29	15.41	12.35
		680.5	22.51	21.96	21.00	17.98	16.96	16.41	15.45	12.43
		670.5	22.35	21.78	20.83	17.72	16.80	16.23	15.28	12.17
	1 RB low	690.5	22.51	21.90	20.84	17.91	16.96	16.35	15.29	12.36
		680.5	22.36	21.77	20.99	17.76	16.81	16.22	15.44	12.21
		670.5	22.51	21.79	20.80	17.79	16.96	16.24	15.25	12.24
	50% RB mid	690.5	21.55	20.49	19.57	17.55	16.00	14.94	14.02	12.00
		680.5	21.49	20.46	19.55	17.54	15.94	14.91	14.00	11.99
		670.5	21.39	20.42	19.49	17.50	15.84	14.87	13.94	11.95
	100% RB	690.5	21.57	20.59	19.64	17.67	16.02	15.04	14.09	12.12
		680.5	21.48	20.51	19.53	17.55	15.93	14.96	13.98	12.00
		670.5	21.45	20.49	19.54	17.53	15.90	14.94	13.99	11.98
20MHz	1 RB high	688	22.56	22.15	20.52	17.58	17.01	16.60	14.97	12.03
		680.5	22.65	22.31	20.59	17.73	17.10	16.76	15.04	12.18

		673	22.49	22.12	20.48	17.58	16.94	16.57	14.93	12.03
	1 RB low	688	22.47	22.12	20.90	17.51	16.92	16.57	15.35	11.96
		680.5	22.38	22.02	20.92	17.48	16.83	16.47	15.37	11.93
		673	22.46	22.01	20.78	17.44	16.91	16.46	15.23	11.89
	50% RB mid	688	21.63	20.53	19.70	17.60	16.08	14.98	14.15	12.05
		680.5	21.51	20.47	19.59	17.59	15.96	14.92	14.04	12.04
		673	21.54	20.40	19.61	17.51	15.99	14.85	14.06	11.96
	100% RB	688	21.60	20.59	19.64	17.65	16.05	15.04	14.09	12.10
		680.5	21.44	20.45	19.54	17.52	15.89	14.90	13.99	11.97
		673	21.51	20.51	19.57	17.56	15.96	14.96	14.02	12.01

Note: Expanded measurement uncertainty is $U = 0.578 \text{ dB}$, $k = 2$.

A.2 Emission Limit

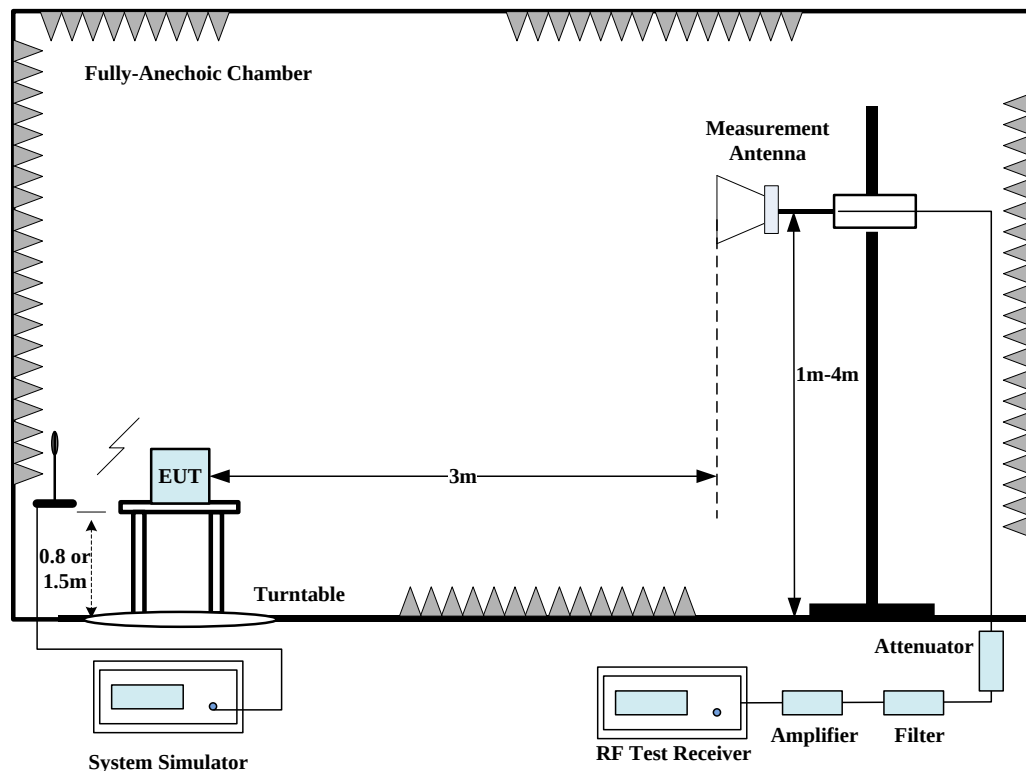
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

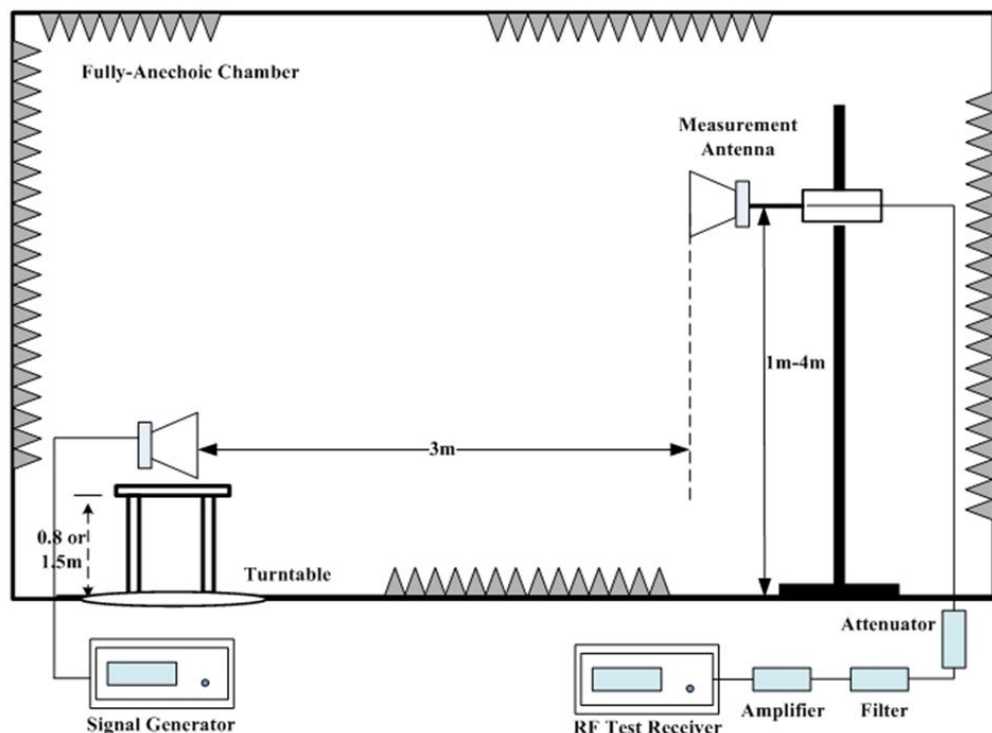
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



1. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
2. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

3. The Path loss (P_{pl}) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain (G_a) were recorded after test. A amplifier was connected in for the test. The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
4. The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

A.2.2 Measurement Limit

FDD Band 2/25: Part 24.238 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 12/13/17/71: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in

watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

LTE Band 14: Part 90.543(e) (3) specifies that On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

LTE Band 26(814MHz~824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FDD Band 5/26(824MHz~849MHz): Part 22.917 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

LTE Band 30: Part 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

FDD Band 7/TDD Band 38/41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent

channel BRS or EBS licensees.

FDD Band 4/66: Part 27.53(h) specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

TDD Band 48: Part 96.41(e)(2) specifies that CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

Note 1: All CA UL combination bands have been tested, only the worst cases are reported.

Note 2: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
LTE Bands	Low	9kHz-26GHz	Pass
	Middle	9kHz-26GHz	Pass
	High	9kHz-26GHz	Pass

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~20 GHz	1 MHz	3 MHz

A.2.6 Measurement Result

Measurement Results from UT47a:

LTE Band 14, 5MHz,CH23305,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2372.02	-47.32	4.48	5.72	2.15	-48.23	-13.00	35.23	V
3162.50	-56.42	5.35	7.39	2.15	-56.53	-13.00	43.53	V
3952.50	-44.67	6.10	8.83	2.15	-44.09	-13.00	31.09	H
4742.50	-40.32	6.56	9.64	2.15	-39.39	-13.00	26.39	V
5535.00	-42.73	7.17	10.59	2.15	-41.46	-13.00	28.46	H
6325.00	-41.38	7.56	10.83	2.15	-40.26	-13.00	27.26	H

LTE Band 14, 5MHz,CH23330,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2379.46	-44.94	4.49	5.74	2.15	-45.84	-13.00	32.84	H
3172.50	-54.88	5.34	7.41	2.15	-54.96	-13.00	41.96	H
3965.00	-40.05	6.09	8.85	2.15	-39.44	-13.00	26.44	V
4757.50	-43.34	6.59	9.66	2.15	-42.42	-13.00	29.42	H
5552.50	-38.99	7.18	10.59	2.15	-37.73	-13.00	24.73	V
6345.00	-36.86	7.56	10.85	2.15	-35.72	-13.00	22.72	V

LTE Band 14, 5MHz,CH23355,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3182.50	-54.94	5.32	7.44	2.15	-54.97	-13.00	41.97	H
3977.50	-39.96	6.08	8.87	2.15	-39.32	-13.00	26.32	V
4772.50	-42.86	6.61	9.67	2.15	-41.95	-13.00	28.95	H
5570.00	-40.43	7.20	10.59	2.15	-39.19	-13.00	26.19	V
6365.00	-36.94	7.56	10.87	2.15	-35.78	-13.00	22.78	V
7162.50	-46.50	8.18	11.80	2.15	-45.03	-13.00	32.03	V

LTE Band 48, 5MHz,CH55266,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7105.13	-54.97	8.16	11.73	-51.40	-40.00	11.40	H
8869.13	-63.66	8.79	13.07	-59.38	-40.00	19.38	V
10657.88	-57.94	9.29	13.13	-54.10	-40.00	14.10	H
12462.75	-59.80	10.27	13.19	-56.88	-40.00	16.88	V
14211.00	-57.36	10.89	14.46	-53.79	-40.00	13.79	V
15990.75	-57.42	11.80	13.70	-55.52	-40.00	15.52	V

LTE Band 48, 5MHz,CH55990,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7249.88	-53.11	8.15	11.90	-49.36	-40.00	9.36	V
9033.38	-63.85	9.11	13.12	-59.84	-40.00	19.84	H
10875.38	-55.54	9.61	13.18	-51.97	-40.00	11.97	V
12672.38	-59.19	10.34	13.30	-56.23	-40.00	16.23	H
14500.50	-58.18	10.93	14.40	-54.71	-40.00	14.71	H
16320.00	-55.75	11.82	13.64	-53.93	-40.00	13.93	V

LTE Band 48, 5MHz,CH56725,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7395.38	-50.87	8.12	12.07	-46.92	-40.00	6.92	V
9264.00	-62.57	9.07	13.26	-58.38	-40.00	18.38	H
11093.63	-53.05	9.85	13.18	-49.72	-40.00	9.72	V
12917.63	-59.57	10.50	13.45	-56.62	-40.00	16.62	H
14790.75	-55.49	11.13	14.17	-52.45	-40.00	12.45	H
16650.38	-56.84	11.87	13.66	-55.05	-40.00	15.05	H

LTE Band 41C, 10MHz+15MHz,CH39703_CH39823,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5002.50	-55.30	5.16	11.32	-49.14	-25.00	24.14	V
7506.09	-48.62	7.70	10.21	-46.11	-25.00	21.11	H
10025.62	-45.07	9.34	11.77	-42.64	-25.00	17.64	H
12488.44	-39.71	12.33	13.58	-38.46	-25.00	13.46	H
14999.53	-34.22	14.76	14.60	-34.38	-25.00	9.38	H
17501.72	-26.61	19.72	13.10	-33.23	-25.00	8.23	H
5002.50	-55.30	5.16	11.32	-49.14	-25.00	24.14	V
7506.09	-48.62	7.70	10.21	-46.11	-25.00	21.11	H
10025.62	-45.07	9.34	11.77	-42.64	-25.00	17.64	H
12520.31	-40.31	12.38	13.54	-39.15	-25.00	14.15	V
14999.53	-34.22	14.76	14.60	-34.38	-25.00	9.38	H
17501.72	-26.61	19.72	13.10	-33.23	-25.00	8.23	H

LTE Band 41C, 10MHz+15MHz, CH40549_CH40669,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5172.19	-54.26	5.79	11.64	-48.41	-25.00	23.41	H
7770.47	-48.80	7.40	10.74	-45.46	-25.00	20.46	V
10369.22	-43.08	10.74	11.97	-41.85	-25.00	16.85	H
12984.38	-38.71	12.42	12.72	-38.41	-25.00	13.41	V
15546.09	-35.62	16.79	15.60	-36.81	-25.00	11.81	V
17994.84	-27.49	19.95	13.41	-34.03	-25.00	9.03	H
5172.19	-54.26	5.79	11.64	-48.41	-25.00	23.41	H
7770.47	-48.80	7.40	10.74	-45.46	-25.00	20.46	V
10369.22	-43.08	10.74	11.97	-41.85	-25.00	16.85	H
12984.38	-38.71	12.42	12.72	-38.41	-25.00	13.41	V
15546.09	-35.62	16.79	15.60	-36.81	-25.00	11.81	V
17994.84	-27.49	19.95	13.41	-34.03	-25.00	9.03	H

LTE Band 41C, 10MHz+15M, CH41395_CH41515,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5389.22	-54.18	5.44	11.62	-48.00	-25.00	23.00	H
8042.81	-47.65	7.77	11.11	-44.31	-25.00	19.31	H
10717.97	-42.59	9.92	12.12	-40.39	-25.00	15.39	H
13422.66	-37.18	12.52	12.38	-37.32	-25.00	12.32	V
16106.72	-33.30	17.11	15.10	-35.31	-25.00	10.31	V
17993.44	-27.60	19.95	13.41	-34.14	-25.00	9.14	H
5389.22	-54.18	5.44	11.62	-48.00	-25.00	23.00	H
8042.81	-47.65	7.77	11.11	-44.31	-25.00	19.31	H
10717.97	-42.59	9.92	12.12	-40.39	-25.00	15.39	H
13392.66	-37.06	12.44	12.41	-37.09	-25.00	12.09	H
16106.72	-33.30	17.11	15.10	-35.31	-25.00	10.31	V
17993.44	-27.60	19.95	13.41	-34.14	-25.00	9.14	H

LTE Band 48C, 5MHz+20MHz, CH55273+55390,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7109.63	-65.85	8.16	11.73	-62.28	-40.00	22.28	H
8868.38	-63.62	8.79	13.07	-59.34	-40.00	19.34	V
10649.25	-61.92	9.29	13.13	-58.08	-40.00	18.08	H
12452.63	-59.48	10.30	13.18	-56.60	-40.00	16.60	V
14194.13	-58.95	10.89	14.46	-55.38	-40.00	15.38	H
16023.75	-57.30	11.83	13.70	-55.43	-40.00	15.43	H

LTE Band 48C, 5MHz+20MHz, CH55898+56015,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7243.13	-58.87	8.15	11.89	-55.13	-40.00	15.13	H
9037.50	-63.66	9.10	13.12	-59.64	-40.00	19.64	V
10847.63	-58.46	9.59	13.17	-54.88	-40.00	14.88	V
12645.38	-59.05	10.39	13.29	-56.15	-40.00	16.15	V
14464.13	-58.93	10.97	14.41	-55.49	-40.00	15.49	V
16300.50	-55.83	11.83	13.64	-54.02	-40.00	14.02	V

LTE Band 48C, 5MHz+20MHz, CH56523+56640,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7356.75	-54.56	8.11	12.03	-50.64	-40.00	10.64	V
9189.00	-63.43	8.93	13.21	-59.15	-40.00	19.15	H
11035.50	-54.95	9.96	13.19	-51.72	-40.00	11.72	V
12896.63	-58.80	10.52	13.44	-55.88	-40.00	15.88	H
14713.88	-55.65	11.20	14.23	-52.62	-40.00	12.62	H
16526.63	-56.32	12.00	13.61	-54.71	-40.00	14.71	H

CA_2A-14A, 5MHz+5MHz, CH18625+23305,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3692.81	-59.07	3.69	10.41	0.00	-52.35	-13.00	39.35	V
5563.59	-54.65	5.37	11.23	0.00	-48.79	-13.00	35.79	H
7410.47	-48.19	8.04	10.10	0.00	-46.13	-13.00	33.13	H
9263.44	-35.54	8.85	11.70	0.00	-32.69	-13.00	19.69	H
11116.88	-38.49	9.85	12.62	0.00	-35.72	-13.00	22.72	H
12963.28	-38.51	12.52	12.74	0.00	-38.29	-13.00	25.29	V
2368.50	-36.11	4.48	5.71	2.15	-37.03	-13.00	24.03	V
3952.97	-47.53	6.10	8.83	2.15	-46.95	-13.00	33.95	V
4743.75	-45.90	6.56	9.64	2.15	-44.97	-13.00	31.97	H
5535.00	-43.90	7.17	10.59	2.15	-42.63	-13.00	29.63	H
6325.78	-42.51	7.56	10.83	2.15	-41.39	-13.00	28.39	H
7115.63	-48.35	8.16	11.74	2.15	-46.92	-13.00	33.92	V

CA_2A-14A, 5MHz+5MHz, CH18900+23330,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.31	-60.65	3.81	10.16	0.00	-54.30	-13.00	41.30	V
5637.19	-53.97	5.61	11.37	0.00	-48.21	-13.00	35.21	V
7534.22	-48.91	7.46	10.27	0.00	-46.10	-13.00	33.10	V
9401.25	-34.41	9.10	11.50	0.00	-32.01	-13.00	19.01	H
11280.94	-36.67	10.63	12.62	0.00	-34.68	-13.00	21.68	H
13151.72	-36.71	13.24	12.55	0.00	-37.40	-13.00	24.40	H
2378.50	-36.47	4.49	5.74	2.15	-37.37	-13.00	24.37	H
3966.09	-45.89	6.09	8.85	2.15	-45.28	-13.00	32.28	H
4758.75	-44.44	6.59	9.66	2.15	-43.52	-13.00	30.52	V
5551.88	-42.92	7.18	10.59	2.15	-41.66	-13.00	28.66	H
6345.47	-39.16	7.56	10.85	2.15	-38.02	-13.00	25.02	V
7138.59	-50.38	8.17	11.77	2.15	-48.93	-13.00	35.93	V

CA_2A-14A, 5MHz+5MHz, CH19175+23355,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.16	-59.13	3.94	9.97	0.00	-53.10	-13.00	40.10	H
5721.09	-52.50	5.91	11.36	0.00	-47.05	-13.00	34.05	V
7630.78	-47.60	6.72	10.36	0.00	-43.96	-13.00	30.96	H
9538.12	-34.19	9.12	11.88	0.00	-31.43	-13.00	18.43	H
11446.41	-32.81	12.40	12.55	0.00	-32.66	-13.00	19.66	H
13354.22	-36.64	13.11	12.45	0.00	-37.30	-13.00	24.30	H
2390.00	-36.91	4.50	5.77	2.15	-37.79	-13.00	24.79	V
3977.81	-47.58	6.08	8.87	2.15	-46.94	-13.00	33.94	H
4773.28	-45.27	6.62	9.67	2.15	-44.37	-13.00	31.37	H
5569.69	-38.46	7.20	10.59	2.15	-37.22	-13.00	24.22	V
6365.16	-38.85	7.56	10.87	2.15	-37.69	-13.00	24.69	V
7156.88	-49.31	8.18	11.79	2.15	-47.85	-13.00	34.85	V

CA_2A-48A, 5MHz+5MHz, CH18625+55265,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7410.75	-52.39	8.15	12.09	-48.45	-40.00	8.45	H
9263.25	-58.72	9.07	13.26	-54.53	-40.00	14.53	V
11116.13	-52.81	9.77	13.18	-49.40	-40.00	9.40	V
12969.00	-59.48	10.48	13.48	-56.48	-40.00	16.48	H
14800.88	-57.97	11.13	14.16	-54.94	-40.00	14.94	H
16664.25	-56.80	11.83	13.67	-54.96	-40.00	14.96	H
7105.50	-56.71	8.16	11.73	-53.14	-40.00	13.14	V
8895.00	-64.01	8.84	13.08	-59.77	-40.00	19.77	V
10658.25	-60.73	9.29	13.13	-56.89	-40.00	16.89	V
12436.50	-59.72	10.34	13.17	-56.89	-40.00	16.89	H
14210.63	-58.26	10.89	14.46	-54.69	-40.00	14.69	V
16016.25	-56.98	11.83	13.70	-55.11	-40.00	15.11	V

CA_2A-48A, 5MHz+5MHz, CH18900+55990,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7520.63	-54.22	8.31	12.22	-50.31	-40.00	10.31	H
9400.88	-58.66	9.04	13.34	-54.36	-40.00	14.36	V
11281.13	-52.54	9.88	13.14	-49.28	-40.00	9.28	V
13161.38	-57.42	10.67	13.73	-54.36	-40.00	14.36	V
15041.25	-56.33	11.27	13.98	-53.62	-40.00	13.62	H
16906.88	-55.53	12.02	13.76	-53.79	-40.00	13.79	H
7250.25	-56.67	8.15	11.90	-52.92	-40.00	12.92	H
9058.13	-63.60	9.05	13.13	-59.52	-40.00	19.52	H
10875.38	-57.18	9.61	13.18	-53.61	-40.00	13.61	H
12671.25	-59.04	10.35	13.30	-56.09	-40.00	16.09	H
14500.88	-58.78	10.93	14.40	-55.31	-40.00	15.31	H
16335.75	-55.10	11.82	13.63	-53.29	-40.00	13.29	H

CA_2A-48A, 5MHz+5MHz, CH19175+56715,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7630.50	-55.01	8.11	12.30	-50.82	-40.00	10.82	H
9538.13	-55.51	9.40	13.36	-51.55	-40.00	11.55	H
11446.13	-52.36	9.95	13.11	-49.20	-40.00	9.20	V
13353.38	-56.76	10.57	13.99	-53.34	-40.00	13.34	H
15261.75	-56.61	11.32	13.84	-54.09	-40.00	14.09	V
17193.75	-55.46	12.37	14.23	-53.60	-40.00	13.60	V
7395.00	-51.94	8.12	12.07	-47.99	-40.00	7.99	V
9258.75	-63.04	9.06	13.26	-58.84	-40.00	18.84	H
11092.88	-53.75	9.85	13.18	-50.42	-40.00	10.42	H
12946.13	-58.99	10.49	13.47	-56.01	-40.00	16.01	V
14791.13	-55.96	11.13	14.17	-52.92	-40.00	12.92	H
16645.50	-56.33	11.89	13.66	-54.56	-40.00	14.56	H

Reference Measurement Results from 24T04Z102259:
LTE Band 7, 5MHz,CH20775,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-56.24	5.15	11.33	-50.06	-25.00	25.06	V
7507.50	-38.67	7.70	10.22	-36.15	-25.00	11.15	V
10010.50	-35.83	9.35	11.79	-33.39	-25.00	8.39	H
12514.00	-30.81	12.37	13.56	-29.62	-25.00	4.62	H
15016.00	-43.02	14.74	14.65	-43.11	-25.00	18.11	V
17519.00	-35.49	19.70	13.12	-42.07	-25.00	17.07	H

LTE Band 7, 5MHz,CH21100,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-58.65	5.30	11.60	-52.35	-25.00	27.35	V
7605.50	-41.70	7.58	10.31	-38.97	-25.00	13.97	H
10140.50	-35.78	9.74	11.78	-33.74	-25.00	8.74	H
12676.00	-35.44	11.70	13.15	-33.99	-25.00	8.99	H
15211.00	-41.56	15.10	15.02	-41.64	-25.00	16.64	V
17749.00	-36.14	19.56	13.45	-42.25	-25.00	17.25	H

LTE Band 7, 5MHz,CH21425,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-53.90	5.55	11.60	-47.85	-25.00	22.85	V
7702.50	-43.71	6.72	10.60	-39.83	-25.00	14.83	H
10270.50	-34.24	10.76	11.90	-33.10	-25.00	8.10	H
12838.50	-32.32	13.04	12.92	-32.44	-25.00	7.44	H
15406.50	-40.72	14.90	15.41	-40.21	-25.00	15.21	H
17974.00	-35.19	19.99	13.45	-41.73	-25.00	16.73	H

LTE Band 12, 1.4MHz,CH23017,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2806.50	-48.68	5.23	10.41	2.15	-45.65	-13.00	32.65	V
4199.00	-52.99	4.16	10.10	2.15	-49.20	-13.00	36.20	V
4898.50	-45.28	4.86	11.00	2.15	-41.29	-13.00	28.29	V
5598.50	-40.03	5.66	11.30	2.15	-36.54	-13.00	23.54	H
6298.00	-40.19	6.07	10.80	2.15	-37.61	-13.00	24.61	H
6997.50	-47.15	7.83	10.40	2.15	-46.73	-13.00	33.73	V

LTE Band 12, 1.4MHz,CH23095,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2822.50	-49.71	5.12	10.44	2.15	-46.54	-13.00	33.54	H
4245.00	-52.19	4.94	10.28	2.15	-49.00	-13.00	36.00	V
4953.50	-46.63	4.91	11.21	2.15	-42.48	-13.00	29.48	V
5661.00	-42.12	5.72	11.40	2.15	-38.59	-13.00	25.59	H
6368.50	-40.30	5.76	10.94	2.15	-37.27	-13.00	24.27	H
7075.50	-44.40	6.89	10.40	2.15	-43.04	-13.00	30.04	H

LTE Band 12, 1.4MHz,CH23173,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2860.50	-48.31	5.53	10.56	2.15	-45.43	-13.00	32.43	H
4292.00	-46.60	4.65	10.55	2.15	-42.85	-13.00	29.85	H
5007.50	-46.82	5.14	11.34	2.15	-42.77	-13.00	29.77	H
5723.00	-35.30	5.90	11.35	2.15	-32.00	-13.00	19.00	H
6438.50	-35.82	6.87	10.85	2.15	-33.99	-13.00	20.99	H
7153.50	-41.55	6.70	10.18	2.15	-40.22	-13.00	27.22	H

LTE Band 13, 5MHz,CH23205,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3117.50	-53.89	5.38	7.28	2.15	-54.14	-13.00	41.14	H
3897.50	-43.14	6.11	8.76	2.15	-42.64	-13.00	29.64	V
4677.50	-42.76	6.49	9.58	2.15	-41.82	-13.00	28.82	V
5457.50	-37.42	6.90	10.54	2.15	-35.93	-13.00	22.93	H
6237.50	-39.45	7.42	10.74	2.15	-38.28	-13.00	25.28	V
7017.50	-35.16	8.27	11.62	2.15	-33.96	-13.00	20.96	H

LTE Band 13, 5MHz,CH23230,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3127.50	-52.12	5.40	7.31	2.15	-52.36	-13.00	39.36	V
3910.00	-44.57	6.12	8.77	2.15	-44.07	-13.00	31.07	H
4692.50	-42.09	6.50	9.59	2.15	-41.15	-13.00	28.15	V
5475.00	-37.86	6.97	10.57	2.15	-36.41	-13.00	23.41	H
6257.50	-38.88	7.45	10.76	2.15	-37.72	-13.00	24.72	H
7040.00	-31.97	8.24	11.65	2.15	-30.71	-13.00	17.71	V

LTE Band 13, 5MHz,CH23255,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3137.50	-53.17	5.39	7.33	2.15	-53.38	-13.00	40.38	V
3922.50	-44.30	6.12	8.79	2.15	-43.78	-13.00	30.78	H
4707.50	-44.78	6.51	9.61	2.15	-43.83	-13.00	30.83	V
5492.50	-41.88	7.03	10.59	2.15	-40.47	-13.00	27.47	V
6277.50	-41.25	7.49	10.78	2.15	-40.11	-13.00	27.11	H
7062.50	-30.99	8.21	11.68	2.15	-29.67	-13.00	16.67	V

LTE Band 25, 1.4MHz,CH26047,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.50	-55.32	3.47	10.39	-48.40	-13.00	35.40	H
5552.00	-42.90	5.32	11.20	-37.02	-13.00	24.02	H
7403.00	-42.59	8.08	10.10	-40.57	-13.00	27.57	H
9253.50	-33.85	8.85	11.70	-31.00	-13.00	18.00	H
11104.50	-30.77	9.75	12.60	-27.92	-13.00	14.92	H
12955.50	-40.47	12.50	12.74	-40.23	-13.00	27.23	H

LTE Band 25, 1.4MHz,CH26365,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-54.69	3.79	10.14	-48.34	-13.00	35.34	H
5647.50	-45.49	5.60	11.40	-39.69	-13.00	26.69	H
7530.50	-41.60	7.72	10.26	-39.06	-13.00	26.06	H
9412.50	-28.96	9.06	11.55	-26.47	-13.00	13.47	H
11295.50	-28.28	10.61	12.60	-26.29	-13.00	13.29	H
13178.00	-37.88	13.15	12.52	-38.51	-13.00	25.51	H

LTE Band 25, 1.4MHz,CH26683,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.50	-52.90	3.92	9.94	-46.88	-13.00	33.88	H
5743.00	-46.77	5.86	11.31	-41.32	-13.00	28.32	V
7657.50	-43.05	6.90	10.43	-39.52	-13.00	26.52	H
9572.00	-27.13	8.64	11.90	-23.87	-13.00	10.87	H
11486.50	-27.44	12.28	12.51	-27.21	-13.00	14.21	H
13401.00	-34.07	12.46	12.40	-34.13	-13.00	21.13	V

LTE Band 26(824MHz~849MHz), 1.4MHz,CH26797,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2474.00	-49.96	4.33	10.35	2.15	-46.09	-13.00	33.09	V
4949.00	-46.58	4.91	11.20	2.15	-42.44	-13.00	29.44	H
5774.00	-39.57	5.68	11.16	2.15	-36.24	-13.00	23.24	H
6599.00	-37.85	7.10	10.31	2.15	-36.79	-13.00	23.79	V
7423.50	-45.49	7.96	10.10	2.15	-45.50	-13.00	32.50	H
8236.00	-49.79	7.59	11.20	2.15	-48.33	-13.00	35.33	H

LTE Band 26(824MHz~849MHz), 1.4MHz,CH26915,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4182.50	-51.93	4.07	10.06	2.15	-48.09	-13.00	35.09	H
5019.50	-44.59	5.10	11.42	2.15	-40.42	-13.00	27.42	H
5856.00	-39.50	5.60	10.98	2.15	-36.27	-13.00	23.27	H
6692.50	-36.81	6.20	10.48	2.15	-34.68	-13.00	21.68	H
7529.50	-44.06	7.72	10.26	2.15	-43.67	-13.00	30.67	H
8358.50	-48.77	8.24	11.30	2.15	-47.86	-13.00	34.86	V

LTE Band 26(824MHz~849MHz), 1.4MHz,CH27033,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2545.50	-51.37	4.61	10.30	2.15	-47.83	-13.00	34.83	V
4242.00	-47.70	4.43	10.27	2.15	-44.01	-13.00	31.01	H
5090.50	-42.82	5.30	11.60	2.15	-38.67	-13.00	25.67	H
5939.00	-35.31	6.00	10.72	2.15	-32.74	-13.00	19.74	H
6787.00	-36.87	6.39	10.37	2.15	-35.04	-13.00	22.04	H
8484.50	-47.37	8.88	11.30	2.15	-47.10	-13.00	34.10	H

LTE Band 26(814MHz~824MHz), 1.4MHz,CH26697,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2459.00	-52.76	4.40	10.38	2.15	-48.93	-13.00	35.93	V
4889.00	-45.00	4.81	10.98	2.15	-40.98	-13.00	27.98	H
5703.50	-36.16	5.67	11.39	2.15	-32.59	-13.00	19.59	H
6518.50	-35.46	6.27	10.60	2.15	-33.28	-13.00	20.28	V
7333.50	-41.29	7.71	9.90	2.15	-41.25	-13.00	28.25	H
8141.50	-48.21	8.21	11.12	2.15	-47.45	-13.00	34.45	H

LTE Band 26(814MHz~824MHz), 1.4MHz,CH26740,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4095.50	-51.28	3.93	10.09	2.15	-47.27	-13.00	34.27	H
4914.50	-42.03	4.95	11.06	2.15	-38.07	-13.00	25.07	H
5733.50	-37.09	5.88	11.33	2.15	-33.79	-13.00	20.79	H
6552.50	-34.93	6.31	10.58	2.15	-32.81	-13.00	19.81	V
7371.50	-38.23	7.43	9.99	2.15	-37.82	-13.00	24.82	V
8191.00	-49.10	7.32	11.18	2.15	-47.39	-13.00	34.39	H

LTE Band 26(814MHz~824MHz), 1.4MHz,CH26783,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2471.00	-51.35	4.32	10.36	2.15	-47.46	-13.00	34.46	V
4940.50	-43.74	4.90	11.16	2.15	-39.63	-13.00	26.63	H
5763.00	-42.30	5.81	11.22	2.15	-39.04	-13.00	26.04	H
6587.00	-45.83	7.21	10.38	2.15	-44.81	-13.00	31.81	H
7410.00	-46.63	8.04	10.10	2.15	-46.72	-13.00	33.72	H
8246.50	-50.22	7.59	11.20	2.15	-48.76	-13.00	35.76	H

LTE Band 30, 5MHz,CH27685,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4615.00	-60.55	4.68	10.97	-54.26	-40.00	14.26	H
6923.00	-59.68	6.47	10.35	-55.80	-40.00	15.80	H
9230.50	-46.26	8.85	11.74	-43.37	-40.00	3.37	H
11538.50	-46.01	10.59	12.54	-44.06	-40.00	4.06	H
13846.00	-47.85	13.08	12.10	-48.83	-40.00	8.83	H
16154.50	-49.60	18.62	15.10	-53.12	-40.00	13.12	H

LTE Band 30, 5MHz,CH27710,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4620.00	-60.61	4.69	10.96	-54.34	-40.00	14.34	H
6930.50	-61.15	6.47	10.36	-57.26	-40.00	17.26	H
9240.50	-44.99	8.85	11.72	-42.12	-40.00	2.12	H
11551.00	-44.91	10.68	12.55	-43.04	-40.00	3.04	H
13861.00	-49.11	13.10	12.10	-50.11	-40.00	10.11	H
16171.50	-48.92	18.53	15.10	-52.35	-40.00	12.35	H

LTE Band 30, 5MHz,CH27735,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4625.00	-58.24	4.71	10.95	-52.00	-40.00	12.00	H
6938.00	-60.95	6.47	10.38	-57.04	-40.00	17.04	V
9250.50	-43.76	8.85	11.70	-40.91	-40.00	0.91	H
11563.50	-42.26	10.77	12.56	-40.47	-40.00	0.47	H
13876.50	-48.26	13.12	12.10	-49.28	-40.00	9.28	H
16189.50	-48.16	18.43	15.10	-51.49	-40.00	11.49	H

LTE Band 41, 5MHz,CH39675,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.50	-50.14	5.17	11.30	-44.01	-25.00	19.01	V
7498.00	-31.30	7.70	10.20	-28.80	-25.00	3.80	V
9994.50	-40.84	9.36	11.79	-38.41	-25.00	13.41	H
12493.50	-39.38	12.34	13.59	-38.13	-25.00	13.13	H
14992.50	-40.40	14.77	14.57	-40.60	-25.00	15.60	V
17483.00	-34.54	19.75	13.08	-41.21	-25.00	16.21	H

LTE Band 41, 5MHz,CH40620,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5183.00	-59.17	5.76	11.67	-53.26	-25.00	28.26	H
7779.00	-49.20	7.37	10.76	-45.81	-25.00	20.81	V
10372.50	-38.68	10.73	11.97	-37.44	-25.00	12.44	H
12966.00	-44.00	12.53	12.73	-43.80	-25.00	18.80	V
15559.00	-41.36	16.71	15.60	-42.47	-25.00	17.47	H
17975.00	-34.55	19.99	13.45	-41.09	-25.00	16.09	H

LTE Band 41, 5MHz,CH41565,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5378.00	-59.83	5.71	11.64	-53.90	-25.00	28.90	V
8063.00	-49.66	7.86	11.13	-46.39	-25.00	21.39	H
10751.00	-48.07	9.83	12.15	-45.75	-25.00	20.75	V
13434.00	-44.67	12.55	12.37	-44.85	-25.00	19.85	V
16113.00	-45.34	17.09	15.10	-47.33	-25.00	22.33	V
17982.50	-36.19	19.97	13.44	-42.72	-25.00	17.72	H

LTE Band 66, 1.4MHz,CH131979,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5132.50	-50.40	5.56	11.60	-44.36	-13.00	31.36	H
8554.00	-50.90	8.52	11.20	-48.22	-13.00	35.22	H
10265.00	-45.26	10.80	11.90	-44.16	-13.00	31.16	H
11975.50	-43.31	12.28	13.05	-42.54	-13.00	29.54	H
13687.00	-52.83	13.01	12.20	-53.64	-13.00	40.64	H
17108.50	-47.78	18.45	13.49	-52.74	-13.00	39.74	H

LTE Band 66, 1.4MHz,CH132322,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5235.00	-57.39	4.70	11.70	-50.39	-13.00	37.39	H
8725.50	-52.16	8.45	11.10	-49.51	-13.00	36.51	V
10470.50	-44.37	10.36	11.93	-42.80	-13.00	29.80	H
12215.00	-47.74	12.17	13.40	-46.51	-13.00	33.51	V
15705.50	-52.93	16.64	15.51	-54.06	-13.00	41.06	H
17444.00	-45.70	19.26	13.04	-51.92	-13.00	38.92	H

LTE Band 66, 1.4MHz,CH132665,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5338.50	-59.10	6.17	11.72	-53.55	-13.00	40.55	H
8897.00	-49.47	8.04	11.59	-45.92	-13.00	32.92	H
10676.00	-41.78	10.04	12.08	-39.74	-13.00	26.74	H
12455.50	-45.22	12.90	13.51	-44.61	-13.00	31.61	H
16014.50	-49.77	17.47	15.36	-51.88	-13.00	38.88	H
17793.50	-46.61	19.55	13.49	-52.67	-13.00	39.67	V

LTE Band 71, 5MHz,CH133147,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1992.50	-55.17	3.40	7.78	2.15	-52.94	-13.00	39.94	H
2667.00	-50.79	4.98	10.20	2.15	-47.72	-13.00	34.72	V
4659.50	-56.17	5.02	10.92	2.15	-52.42	-13.00	39.42	V
5325.50	-56.61	5.08	11.75	2.15	-52.09	-13.00	39.09	H
5991.00	-47.94	5.67	10.70	2.15	-45.06	-13.00	32.06	V
6656.50	-48.61	6.21	10.41	2.15	-46.56	-13.00	33.56	V

LTE Band 71, 5MHz,CH133297,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2043.00	-54.50	3.70	7.70	2.15	-52.65	-13.00	39.65	H
2729.50	-50.36	4.88	10.26	2.15	-47.13	-13.00	34.13	H
4082.50	-57.37	3.84	10.06	2.15	-53.30	-13.00	40.30	H
4765.00	-56.95	4.81	10.97	2.15	-52.94	-13.00	39.94	V
6126.00	-49.05	6.13	10.65	2.15	-46.68	-13.00	33.68	V
6806.50	-52.31	6.38	10.39	2.15	-50.45	-13.00	37.45	V

LTE Band 71, 5MHz,CH133447,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2088.00	-54.22	3.52	7.78	2.15	-52.11	-13.00	39.11	H
2770.50	-50.40	4.95	10.34	2.15	-47.16	-13.00	34.16	H
4175.50	-56.93	4.02	10.05	2.15	-53.05	-13.00	40.05	V
5565.50	-56.09	5.38	11.23	2.15	-52.39	-13.00	39.39	V
6261.00	-46.74	6.13	10.80	2.15	-44.22	-13.00	31.22	V
6957.00	-49.69	6.47	10.40	2.15	-47.91	-13.00	34.91	V

CA_2A_5A, CH18625_CH20450,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.00	-57.93	3.48	10.38	0.00	-51.03	-13.00	38.03	H
5557.97	-43.97	5.35	11.22	0.00	-38.10	-13.00	25.10	H
7410.47	-43.52	8.04	10.10	0.00	-41.46	-13.00	28.46	H
9262.97	-33.69	8.85	11.70	0.00	-30.84	-13.00	17.84	H
11115.94	-33.85	9.84	12.62	0.00	-31.07	-13.00	18.07	H
12968.44	-44.18	12.54	12.73	0.00	-43.99	-13.00	30.99	H
1656.50	-46.81	2.54	9.49	2.15	-42.01	-13.00	29.01	V
2502.50	-39.08	4.44	10.30	2.15	-35.37	-13.00	22.37	H
4145.62	-42.86	4.54	10.01	2.15	-39.54	-13.00	26.54	V
4974.38	-36.53	5.25	11.25	2.15	-32.68	-13.00	19.68	V
5803.59	-37.29	5.71	11.00	2.15	-34.15	-13.00	21.15	H
6632.34	-34.26	6.04	10.36	2.15	-32.09	-13.00	19.09	H

CA_2A_5A, CH18900_CH20525,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.31	-57.45	3.81	10.16	0.00	-51.10	-13.00	38.10	H
5640.47	-50.03	5.61	11.38	0.00	-44.26	-13.00	31.26	H
7520.62	-46.98	7.71	10.24	0.00	-44.45	-13.00	31.45	H
9401.25	-31.60	9.10	11.50	0.00	-29.20	-13.00	16.20	V
11280.94	-28.67	10.63	12.62	0.00	-26.68	-13.00	13.68	H
13161.09	-40.91	13.21	12.54	0.00	-41.58	-13.00	28.58	H
1695.00	-46.11	2.93	9.41	2.15	-41.78	-13.00	28.78	H
2511.00	-39.12	4.28	10.30	2.15	-35.25	-13.00	22.25	V
4182.66	-43.65	4.07	10.07	2.15	-39.80	-13.00	26.80	V
5019.84	-40.39	5.51	11.42	2.15	-36.63	-13.00	23.63	V
5856.09	-38.30	5.61	10.98	2.15	-35.08	-13.00	22.08	H
6692.81	-31.82	6.20	10.49	2.15	-29.68	-13.00	16.68	H

CA_2A_5A, CH19175_CH20600,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.16	-58.61	3.94	9.97	0.00	-52.58	-13.00	39.58	H
5722.97	-47.90	5.90	11.35	0.00	-42.45	-13.00	29.45	V
7631.25	-47.01	6.73	10.36	0.00	-43.38	-13.00	30.38	H
9538.59	-26.20	9.12	11.88	0.00	-23.44	-13.00	10.44	H
11446.41	-26.77	12.40	12.55	0.00	-26.62	-13.00	13.62	H

13354.22	-36.74	13.11	12.45	0.00	-37.40	-13.00	24.40	V
1699.00	-46.01	2.90	9.40	2.15	-41.66	-13.00	28.66	V
2551.00	-38.75	4.58	10.30	2.15	-35.18	-13.00	22.18	V
4220.16	-40.18	4.57	10.18	2.15	-36.72	-13.00	23.72	H
5064.38	-43.97	5.33	11.60	2.15	-39.85	-13.00	26.85	H
5908.59	-37.52	6.18	10.78	2.15	-35.07	-13.00	22.07	H
6752.34	-34.86	6.31	10.30	2.15	-33.02	-13.00	20.02	H

CA_2A_12A, CH18625_CH23035,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3705.00	-57.25	3.48	10.38	0.00	-50.35	-13.00	37.35	H
5558.44	-48.25	5.35	11.22	0.00	-42.38	-13.00	29.38	H
7410.47	-44.79	8.04	10.10	0.00	-42.73	-13.00	29.73	H
9263.44	-34.68	8.85	11.70	0.00	-31.83	-13.00	18.83	H
11115.94	-32.90	9.84	12.62	0.00	-30.12	-13.00	17.12	H
12968.44	-41.57	12.54	12.73	0.00	-41.38	-13.00	28.38	H
1405.00	-47.68	1.93	8.13	2.15	-43.63	-13.00	30.63	H
2113.50	-40.77	3.67	8.02	2.15	-38.57	-13.00	25.57	V
2800.50	-36.14	5.26	10.40	2.15	-33.15	-13.00	20.15	H
4911.56	-49.89	4.93	11.05	2.15	-45.92	-13.00	32.92	H
5613.28	-45.61	5.64	11.33	2.15	-42.07	-13.00	29.07	H
6315.00	-49.51	5.87	10.83	2.15	-46.70	-13.00	33.70	H

CA_2A_12A, CH18900_CH23095,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.31	-59.40	3.81	10.16	0.00	-53.05	-13.00	40.05	H
5640.47	-57.18	5.61	11.38	0.00	-51.41	-13.00	38.41	V
7520.62	-44.18	7.71	10.24	0.00	-41.65	-13.00	28.65	H
9401.25	-32.79	9.10	11.50	0.00	-30.39	-13.00	17.39	H
11280.94	-31.02	10.63	12.62	0.00	-29.03	-13.00	16.03	H
13161.56	-40.58	13.21	12.54	0.00	-41.25	-13.00	28.25	H
1426.00	-47.67	2.16	8.26	2.15	-43.72	-13.00	30.72	V
2122.50	-39.01	3.72	8.16	2.15	-36.72	-13.00	23.72	V
2843.00	-36.23	5.05	10.49	2.15	-32.94	-13.00	19.94	V
4953.75	-50.65	4.91	11.21	2.15	-46.50	-13.00	33.50	H
5661.56	-46.00	5.72	11.40	2.15	-42.47	-13.00	29.47	H
6368.91	-45.19	5.76	10.94	2.15	-42.16	-13.00	29.16	H

CA_2A_12A, CH19175_CH23155,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.62	-58.20	3.94	9.97	0.00	-52.17	-13.00	39.17	H
5709.38	-44.53	5.94	11.38	0.00	-39.09	-13.00	26.09	V
7630.78	-45.38	6.72	10.36	0.00	-41.74	-13.00	28.74	H
9538.59	-29.03	9.12	11.88	0.00	-26.27	-13.00	13.27	H

11445.94	-30.71	12.40	12.55	0.00	-30.56	-13.00	17.56	H
13354.22	-37.73	13.11	12.45	0.00	-38.39	-13.00	25.39	H
1430.50	-47.70	1.89	8.28	2.15	-43.46	-13.00	30.46	H
2151.00	-41.04	3.70	8.61	2.15	-38.28	-13.00	25.28	H
2854.50	-35.77	5.06	10.53	2.15	-32.45	-13.00	19.45	H
4995.47	-46.76	5.18	11.29	2.15	-42.80	-13.00	29.80	H
5709.38	-42.38	5.94	11.38	2.15	-39.09	-13.00	26.09	V
6423.28	-42.07	5.85	10.91	2.15	-39.16	-13.00	26.16	H

CA_4A_12A, CH19975_CH23035,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.16	-64.85	5.38	8.02	0.00	-62.21	-13.00	49.21	H
5138.44	-52.31	6.86	10.09	0.00	-49.08	-13.00	36.08	H
6850.78	-61.47	7.82	11.42	0.00	-57.87	-13.00	44.87	V
8563.13	-58.37	8.56	13.01	0.00	-53.92	-13.00	40.92	H
10276.41	-49.73	9.56	13.01	0.00	-46.28	-13.00	33.28	V
11988.75	-48.41	10.10	13.00	0.00	-45.51	-13.00	32.51	H
1403.50	-55.46	3.24	5.00	2.15	-55.85	-13.00	42.85	H
2112.00	-33.72	4.20	4.94	2.15	-35.13	-13.00	22.13	V
2810.00	-44.90	4.93	6.66	2.15	-45.32	-13.00	32.32	V
3505.78	-65.09	5.53	8.21	2.15	-64.56	-13.00	51.56	H
4209.38	-63.15	6.23	9.11	2.15	-62.42	-13.00	49.42	V
4911.56	-56.33	6.73	9.81	2.15	-55.40	-13.00	42.40	H

CA_4A_12A, CH20175_CH23095,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-67.01	5.46	8.12	0.00	-64.35	-13.00	51.35	H
5197.97	-61.71	6.96	10.18	0.00	-58.49	-13.00	45.49	V
6892.03	-63.11	7.77	11.47	0.00	-59.41	-13.00	46.41	H
8662.97	-60.41	8.41	13.03	0.00	-55.79	-13.00	42.79	V
10395.94	-53.20	9.79	13.06	0.00	-49.93	-13.00	36.93	H
12129.38	-50.14	10.26	13.05	0.00	-47.35	-13.00	34.35	H
1401.00	-55.47	3.24	4.99	2.15	-55.87	-13.00	42.87	V
2132.50	-34.28	4.22	5.00	2.15	-35.65	-13.00	22.65	V
2845.00	-44.72	4.96	6.72	2.15	-45.11	-13.00	32.11	H
3523.13	-65.21	5.56	8.23	2.15	-64.69	-13.00	51.69	H
4245.94	-63.53	6.24	9.15	2.15	-62.77	-13.00	49.77	V
4953.75	-60.81	6.68	9.85	2.15	-59.79	-13.00	46.79	H

CA_4A_12A, CH20375_CH23155,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3505.31	-64.51	5.53	8.21	0.00	-61.83	-13.00	48.83	H
5257.97	-62.02	7.00	10.26	0.00	-58.76	-13.00	45.76	V
7011.09	-62.01	8.28	11.61	0.00	-58.68	-13.00	45.68	H
8763.28	-59.01	8.55	13.05	0.00	-54.51	-13.00	41.51	H

10515.94	-51.86	9.59	13.10	0.00	-48.35	-13.00	35.35	V
12269.06	-52.10	10.01	13.11	0.00	-49.00	-13.00	36.00	V
1442.50	-55.30	3.30	5.20	2.15	-55.55	-13.00	42.55	H
2153.00	-35.25	4.25	5.06	2.15	-36.59	-13.00	23.59	V
2875.50	-44.22	4.97	6.78	2.15	-44.56	-13.00	31.56	H
3588.28	-64.44	6.22	8.32	2.15	-64.49	-13.00	51.49	V
4281.56	-62.97	6.21	9.18	2.15	-62.15	-13.00	49.15	H
4995.47	-59.09	6.61	9.90	2.15	-57.95	-13.00	44.95	V

CA_12A_66A, CH23035_CH132022,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1437.50	-55.02	3.29	5.18	2.15	-55.28	-13.00	42.28	H
2134.00	-48.58	4.23	5.00	2.15	-49.96	-13.00	36.96	V
2876.00	-44.24	4.97	6.78	2.15	-44.58	-13.00	31.58	H
3589.69	-64.49	6.23	8.33	2.15	-64.54	-13.00	51.54	V
4296.09	-63.08	6.20	9.20	2.15	-62.23	-13.00	49.23	V
5017.50	-63.90	6.57	9.92	2.15	-62.70	-13.00	49.70	V
3610.31	-65.79	6.44	8.35	0.00	-63.88	-13.00	50.88	H
5355.47	-66.19	6.92	10.40	0.00	-62.71	-13.00	49.71	H
7081.88	-62.52	8.18	11.70	0.00	-59.00	-13.00	46.00	V
8882.34	-60.67	8.81	13.08	0.00	-56.40	-13.00	43.40	V
10704.38	-59.60	9.32	13.14	0.00	-55.78	-13.00	42.78	V
12504.84	-58.01	10.19	13.20	0.00	-55.00	-13.00	42.00	H

CA_12A_66A, CH23095_CH132322,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1424.50	-55.44	3.27	5.11	2.15	-55.75	-13.00	42.75	H
2131.50	-48.70	4.22	4.99	2.15	-50.08	-13.00	37.08	V
2829.50	-44.71	4.95	6.69	2.15	-45.12	-13.00	32.12	H
3523.59	-65.57	5.56	8.23	2.15	-65.05	-13.00	52.05	V
4260.94	-63.95	6.23	9.16	2.15	-63.17	-13.00	50.17	V
4953.28	-61.55	6.68	9.85	2.15	-60.53	-13.00	47.53	V
3489.84	-66.90	5.50	8.18	0.00	-64.22	-13.00	51.22	V
5235.00	-48.73	7.00	10.23	0.00	-45.50	-13.00	32.50	H
7025.16	-62.06	8.26	11.63	0.00	-58.69	-13.00	45.69	V
8725.31	-59.54	8.44	13.05	0.00	-54.93	-13.00	41.93	H
10470.47	-50.75	9.70	13.09	0.00	-47.36	-13.00	34.36	V
12215.63	-53.25	10.05	13.09	0.00	-50.21	-13.00	37.21	H

CA_12A_66A, CH23155_CH132622,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1435.50	-55.20	3.28	5.16	2.15	-55.47	-13.00	42.47	H
2134.00	-48.61	4.23	5.00	2.15	-49.99	-13.00	36.99	H
2861.50	-44.25	4.96	6.75	2.15	-44.61	-13.00	31.61	H
3556.88	-65.67	5.89	8.28	2.15	-65.43	-13.00	52.43	V
4286.25	-63.41	6.21	9.19	2.15	-62.58	-13.00	49.58	V

4995.47	-62.29	6.61	9.90	2.15	-61.15	-13.00	48.15	H
3514.22	-67.02	5.55	8.22	0.00	-64.35	-13.00	51.35	V
5325.00	-50.84	6.99	10.36	0.00	-47.47	-13.00	34.47	H
7053.28	-62.00	8.22	11.66	0.00	-58.56	-13.00	45.56	V
8875.31	-55.46	8.80	13.08	0.00	-51.18	-13.00	38.18	H
10650.47	-49.55	9.29	13.13	0.00	-45.71	-13.00	32.71	H
12425.63	-50.53	10.37	13.17	0.00	-47.73	-13.00	34.73	V

Note: Peak EIRP (dBm) = P_{Mea}(dBm) - Path Loss(dB) + Antenna Gain(dBi)

Note: Expanded measurement uncertainty is U = 3.44 dB, k = 2.

A.3 Frequency Stability

A.3.1 Method of Measurement

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 F_L and F_H 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.
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 decrements 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.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.3.2 Measurement results

Measurement Results from UT14a:

LTE band 14, 10MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	788.480	797.510		
50				-0.80	0.0010
40				-0.01	0.0000
30				-0.24	0.0003
10				4.71	0.0059
0				1.56	0.0020
-10				1.65	0.0021
-20				0.19	0.0002
-30				-0.70	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	788.480	797.510	0.53	0.0007
4.4				0.33	0.0004

LTE band 48, 20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	3550.966	3699.024		
50				-4.92	0.0014
40				-4.48	0.0012
30				-7.18	0.0020
10				-9.46	0.0026
0				9.23	0.0025
-10				-4.65	0.0013
-20				-2.03	0.0006
-30				-3.38	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.966	3699.024	-7.11	0.0020
4.4				-0.92	0.0003

LTE CA band 41C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2496.920	2689.060		
50				-1.13	0.0004
40				-0.32	0.0001
30				-3.41	0.0013
10				0.40	0.0002
0				0.92	0.0004
-10				-0.19	0.0001
-20				-0.30	0.0001
-30				-2.26	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.920	2689.060	-1.23	0.0005
4.4				-1.20	0.0005

LTE CA band 48C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	3550.640	3699.360		
50				11.66	0.0032
40				11.80	0.0033
30				7.28	0.0020
10				11.46	0.0032
0				11.77	0.0032
-10				6.08	0.0017
-20				9.84	0.0027
-30				12.57	0.0035

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.640	3699.360	5.32	0.0015
4.4				6.34	0.0017

Reference Measurement Results from 24T04Z102259:
LTE Band 7, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2500.577	2569.359		
50				-0.90	0.0004
40				21.43	0.0085
30				-0.20	0.0001
10				-0.33	0.0001
0				0.16	0.0001
-10				1.65	0.0007
-20				21.21	0.0084
-30				16.25	0.0064

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.577	2569.359	-0.93	0.0004
4.4				3.48	0.0014

LTE Band 12, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	699.481	715.519		
50				2.50	0.0035
40				3.30	0.0047
30				2.95	0.0042
10				3.48	0.0049
0				3.66	0.0052
-10				2.66	0.0038
-20				2.43	0.0034
-30				3.49	0.0049

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.481	715.519	4.22	0.0060
4.4				2.90	0.0041

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	777.465	786.535		
50				-2.09	0.0027
40				-1.39	0.0018
30				10.93	0.0140
10				2.03	0.0026
0				9.21	0.0118
-10				9.41	0.0120
-20				2.93	0.0037
-30				1.46	0.0019

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.465	786.535	8.04	0.0103
4.4				1.10	0.0014

LTE Band 25, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1850.833	1914.135		
50				17.34	0.0092
40				-4.56	0.0024
30				-0.40	0.0002
10				0.70	0.0004
0				18.11	0.0096
-10				16.34	0.0087
-20				-21.62	0.0115
-30				-1.75	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.833	1914.135	16.71	0.0089
4.4				17.58	0.0093

LTE Band 26(814MHz~824MHz), 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	814.380	823.615		
50				-0.09	0.0001
40				-1.29	0.0016
30				-0.54	0.0007
10				-1.57	0.0019
0				-1.02	0.0012
-10				-1.13	0.0014
-20				-2.36	0.0029
-30				-1.19	0.0015

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.380	823.615	0.46	0.0006
4.4				-2.86	0.0035

LTE Band 26(824MHz~849MHz), 15MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.529	848.447		
50				-0.64	0.0008
40				-0.90	0.0011
30				-3.00	0.0036
10				-0.86	0.0010
0				-0.40	0.0005
-10				0.39	0.0005
-20				0.64	0.0008
-30				0.03	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.529	848.447	-0.31	0.0004
4.4				2.15	0.0026

LTE Band 30, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2305.417	2314.583		
50				-19.18	0.0083
40				-19.21	0.0083
30				-3.09	0.0013
10				-21.72	0.0094
0				-21.62	0.0094
-10				-21.46	0.0093
-20				-4.42	0.0019
-30				-19.33	0.0084

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2305.417	2314.583	-18.75	0.0081
4.4				-0.44	0.0002

LTE Band 41, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2496.321	2689.487		
50				-1.07	0.0004
40				-3.91	0.0015
30				1.50	0.0006
10				-15.92	0.0061
0				-3.38	0.0013
-10				-3.69	0.0014
-20				-1.02	0.0004
-30				-1.32	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.321	2689.487	-0.14	0.0001
4.4				-3.13	0.0012

LTE Band 66, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.833	1779.167		
50				2.27	0.0013
40				-20.30	0.0116
30				-15.18	0.0087
10				-16.52	0.0095
0				0.06	0.0000
-10				-14.08	0.0081
-20				0.70	0.0004
-30				-13.62	0.0078

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.833	1779.167	-15.36	0.0088
4.4				1.13	0.0006

LTE Band 71, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	663.994	697.006		
50				-2.79	0.0041
40				-0.86	0.0013
30				1.27	0.0019
10				-0.14	0.0002
0				0.01	0.0000
-10				0.41	0.0006
-20				-0.29	0.0004
-30				-0.29	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.994	697.006	-2.86	0.0042
4.4				0.74	0.0011

Note: Expanded measurement uncertainty is U = 0.01 PPM, k = 2.

A.4 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

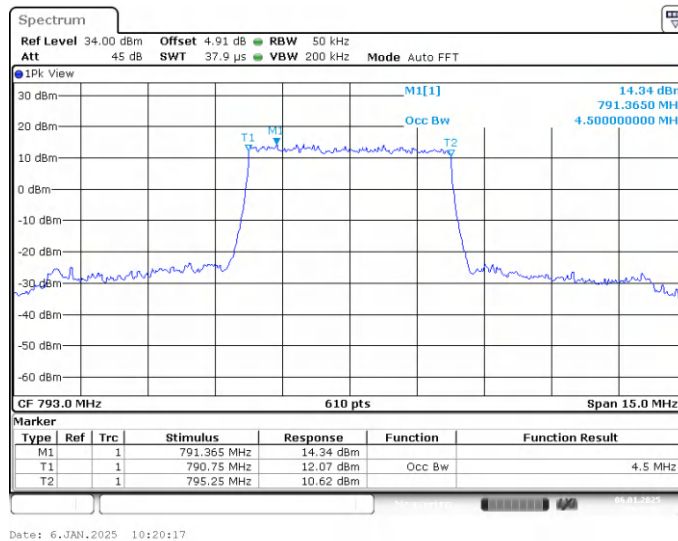
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

Measurement Results from UT14a:

LTE band 14,5MHz(99%)

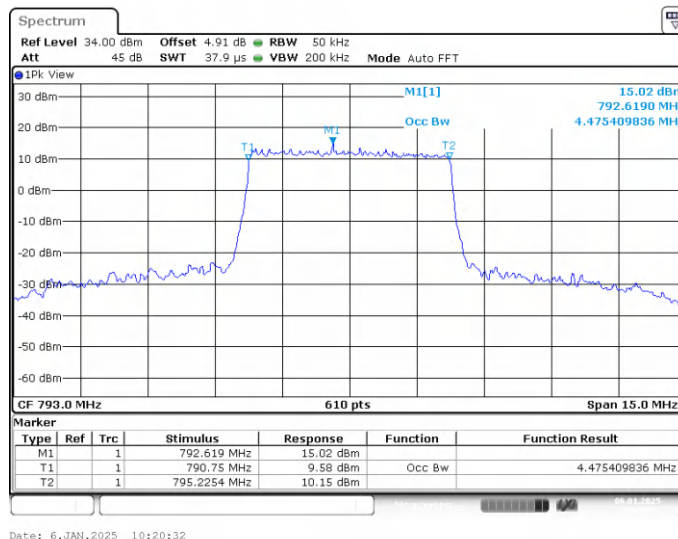
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
793	4.500	4.475

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



Date: 6.JAN.2025 10:20:17

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

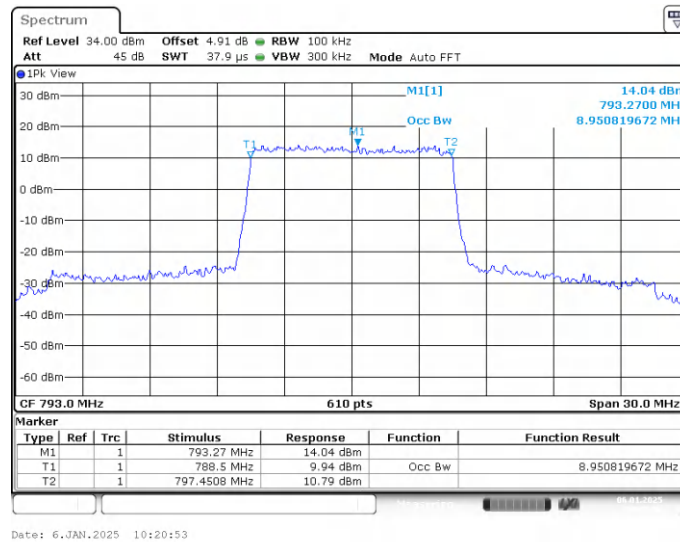


Date: 6.JAN.2025 10:20:32

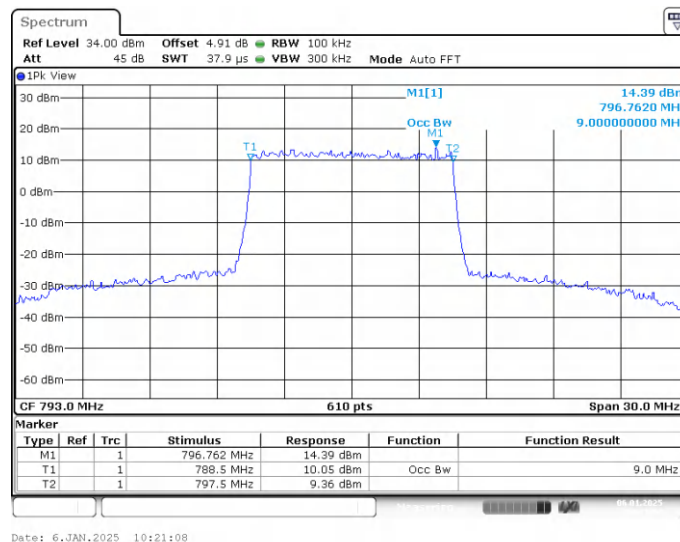
LTE band 14,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
793	8.951	9.000

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



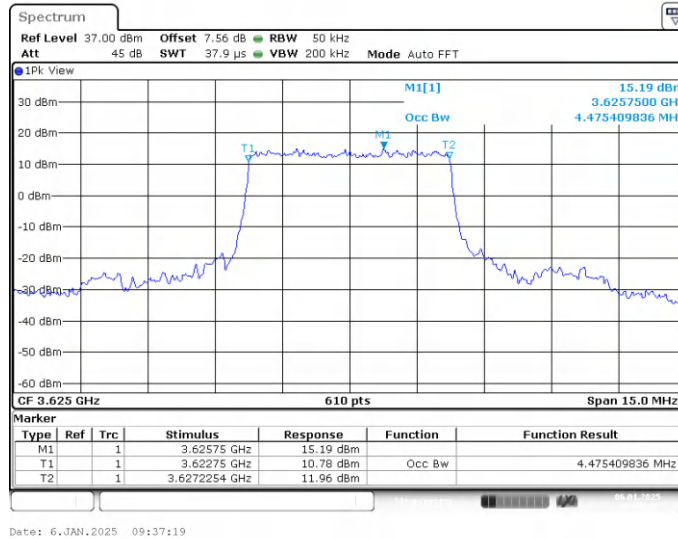
LTE band 14 , 10MHz Bandwidth,MID,16QAM (99% BW)



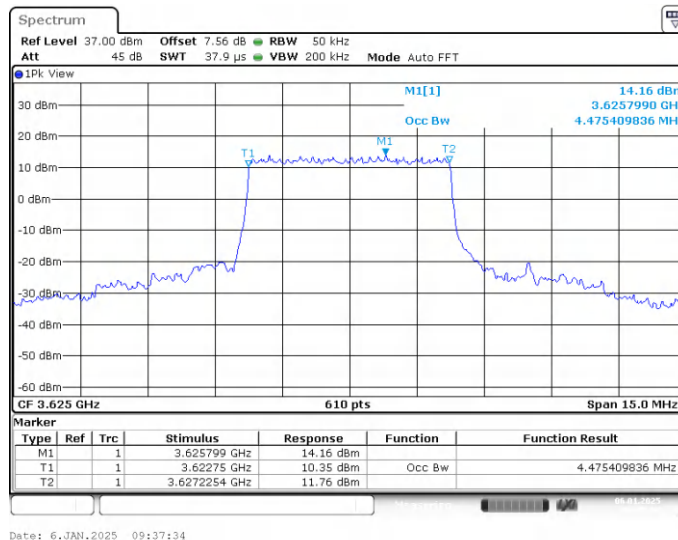
LTE band 48,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	4.475	4.475

LTE band 48 , 5MHz Bandwidth,MID,QPSK (99% BW)



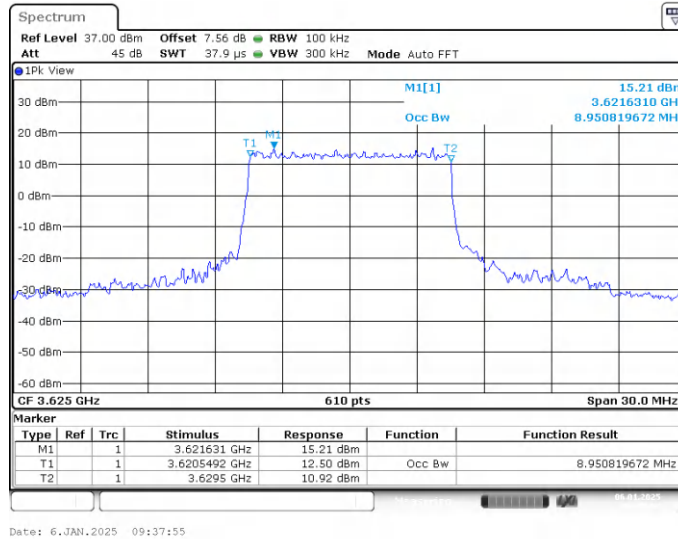
LTE band 48 , 5MHz Bandwidth,MID,16QAM (99% BW)



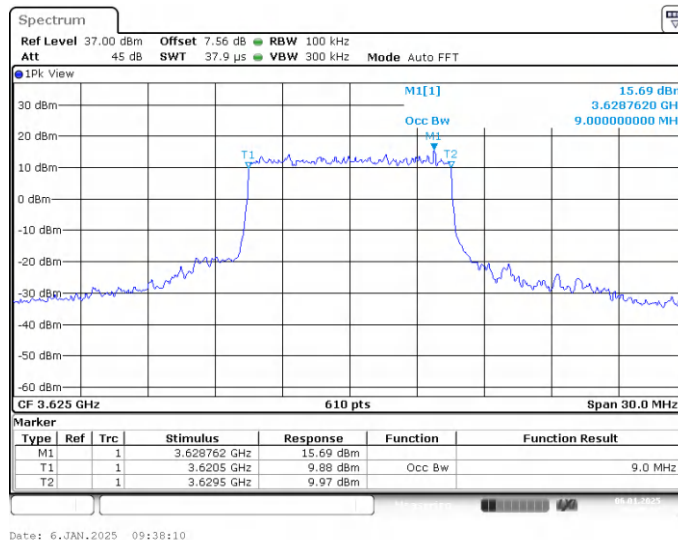
LTE band 48,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	8.951	9.000

LTE band 48 , 10MHz Bandwidth,MID,QPSK (99% BW)



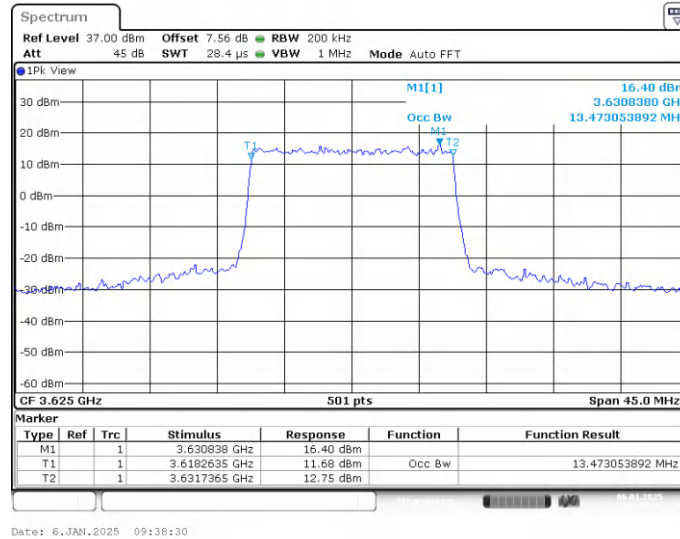
LTE band 48 , 10MHz Bandwidth,MID,16QAM (99% BW)



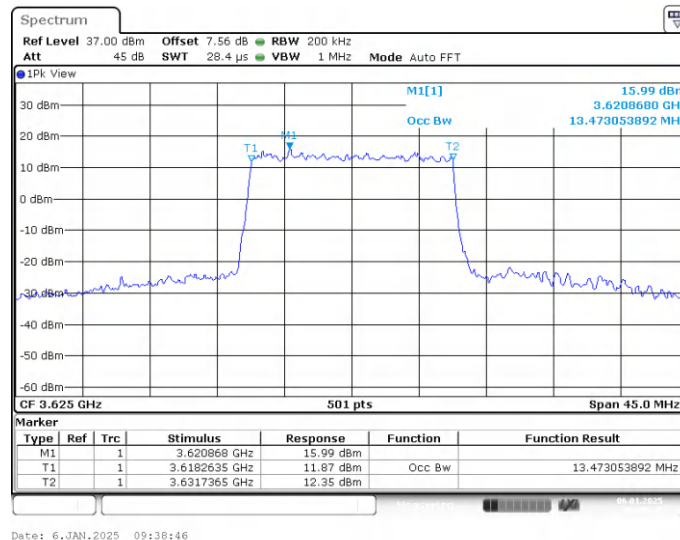
LTE band 48,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	13.473	13.473

LTE band 48 , 15MHz Bandwidth,MID,QPSK (99% BW)



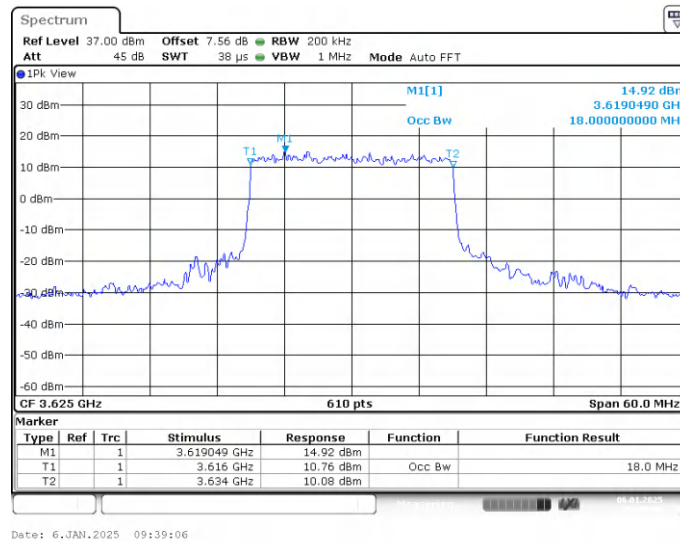
LTE band 48 , 15MHz Bandwidth,MID,16QAM (99% BW)



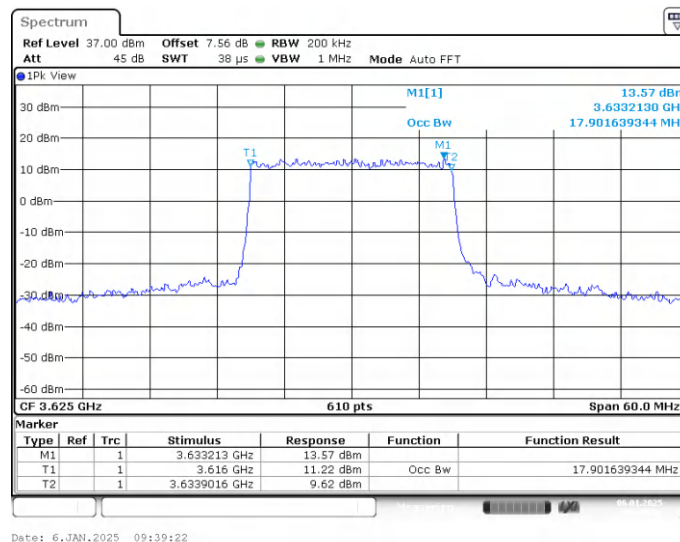
LTE band 48,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	18.000	17.902

LTE band 48 , 20MHz Bandwidth,MID,QPSK (99% BW)



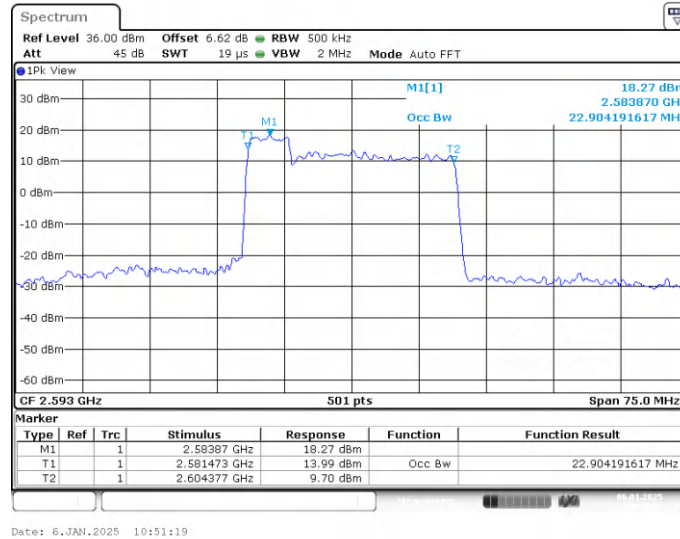
LTE band 48 , 20MHz Bandwidth,MID,16QAM (99% BW)



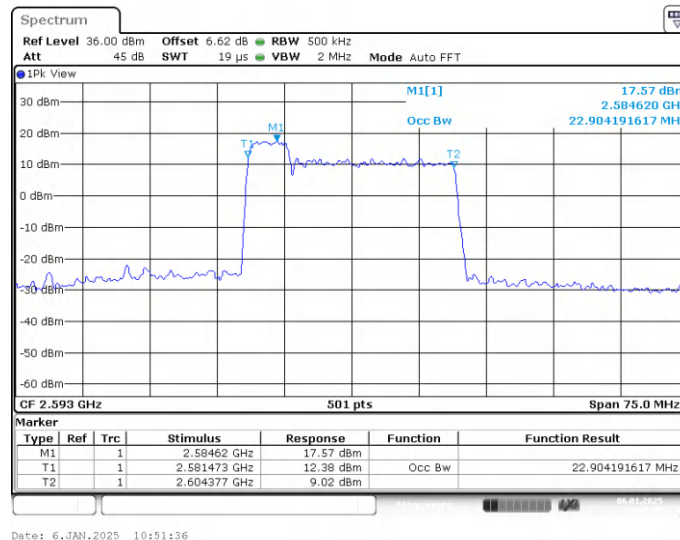
LTE CA band 41C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	22.904	22.904

LTE CA band 41C , 5MHz+20MHz Bandwidth,QPSK (99% BW)



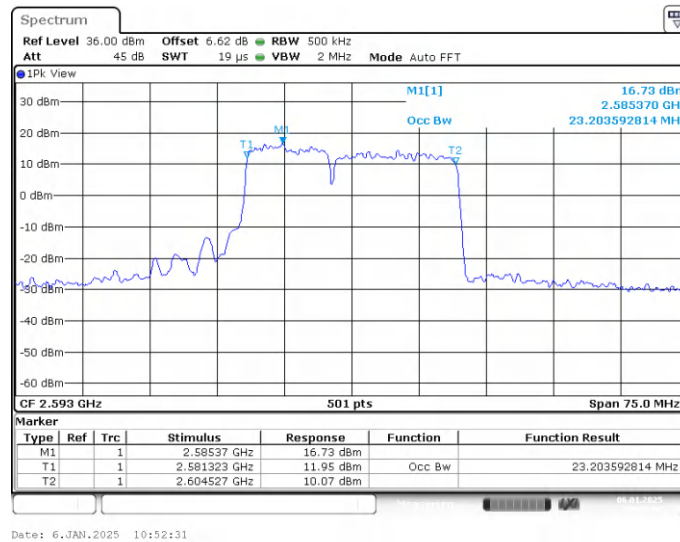
LTE CA band 41C , 5MHz+20MHz Bandwidth,16QAM (99% BW)



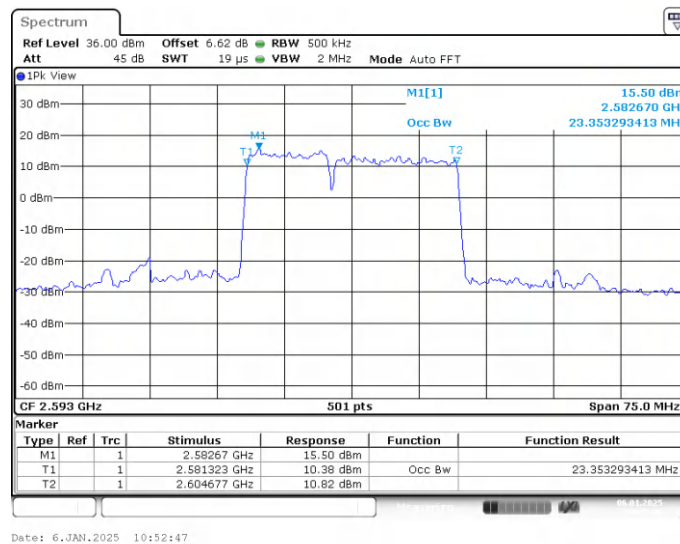
LTE CA band 41C, 10MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.204	23.353

LTE CA band 41C , 10MHz+15MHz Bandwidth,QPSK (99% BW)



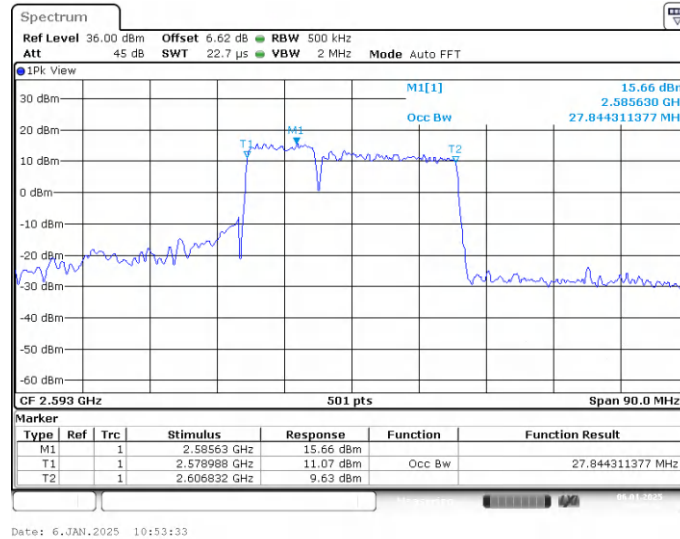
LTE CA band 41C , 10MHz+15MHz Bandwidth,16QAM (99% BW)



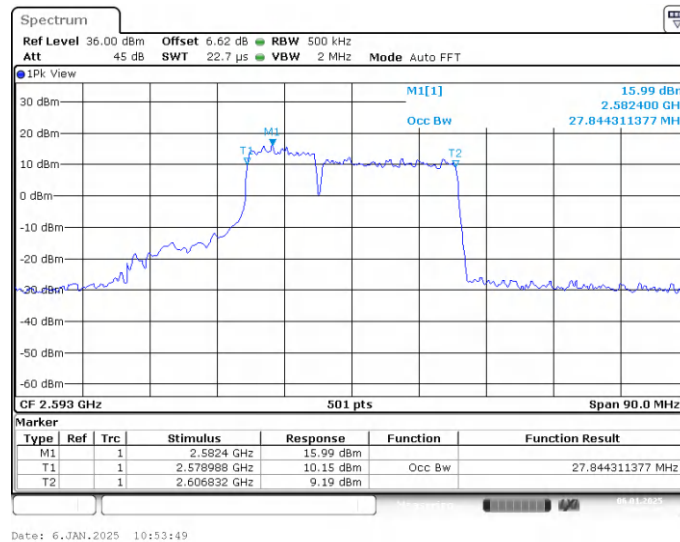
LTE CA band 41C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	27.844	27.844

LTE CA band 41C , 10MHz+20MHz Bandwidth,QPSK (99% BW)



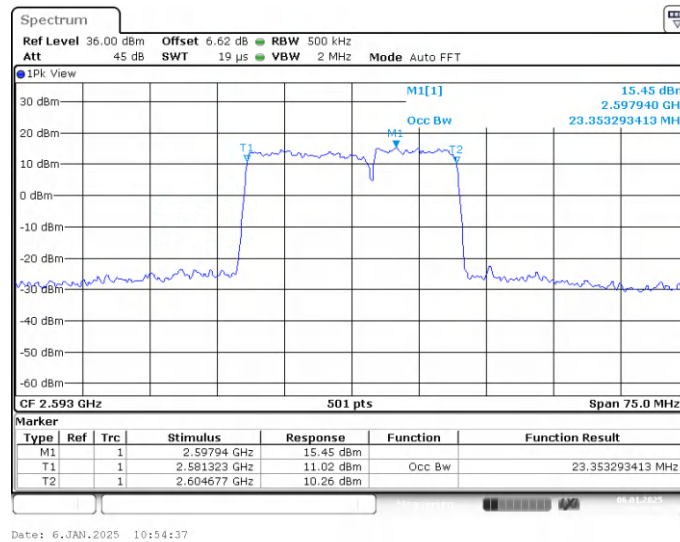
LTE CA band 41C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



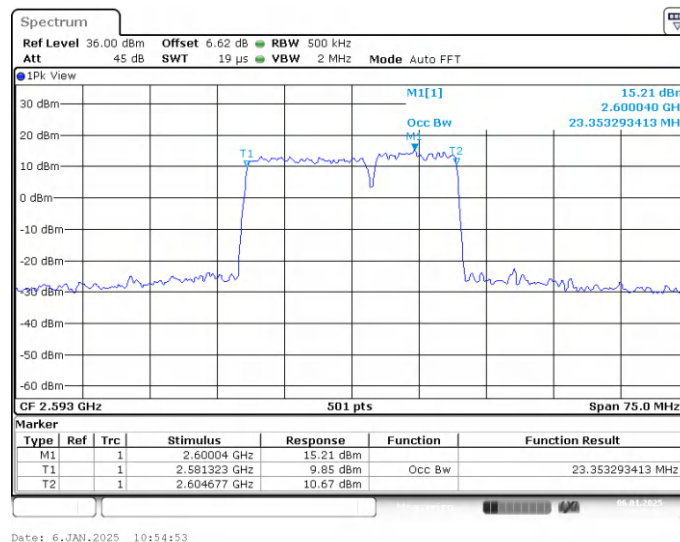
LTE CA band 41C, 15MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.353	23.353

LTE CA band 41C , 15MHz+10MHz Bandwidth,QPSK (99% BW)



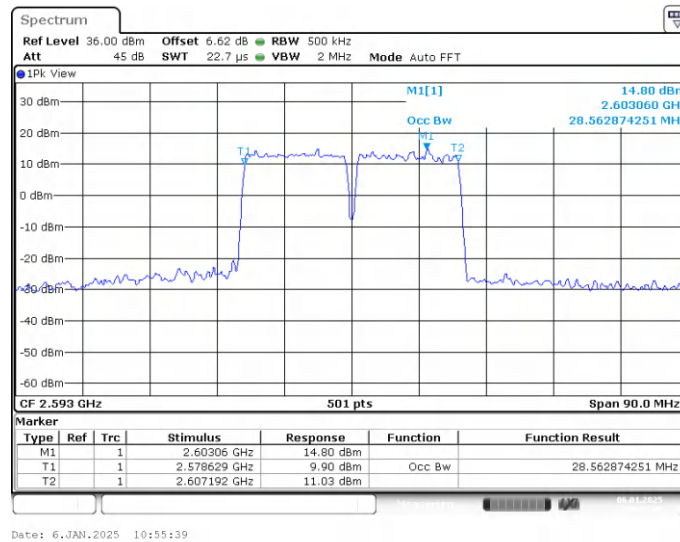
LTE CA band 41C , 15MHz+10MHz Bandwidth,16QAM (99% BW)



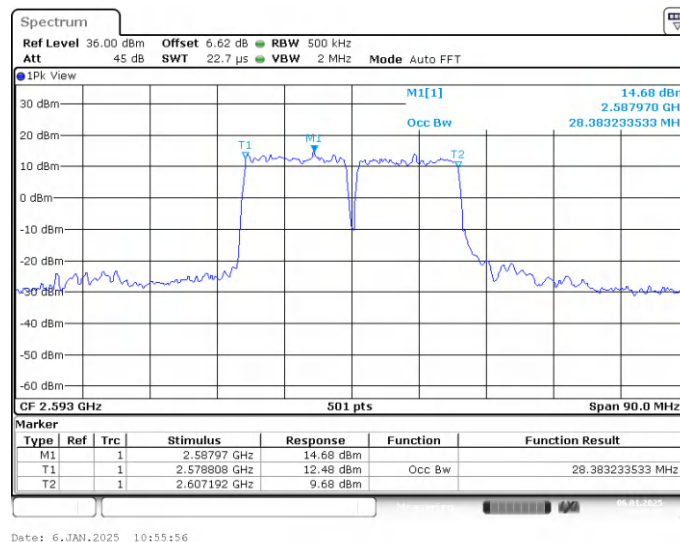
LTE CA band 41C, 15MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	28.563	28.383

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



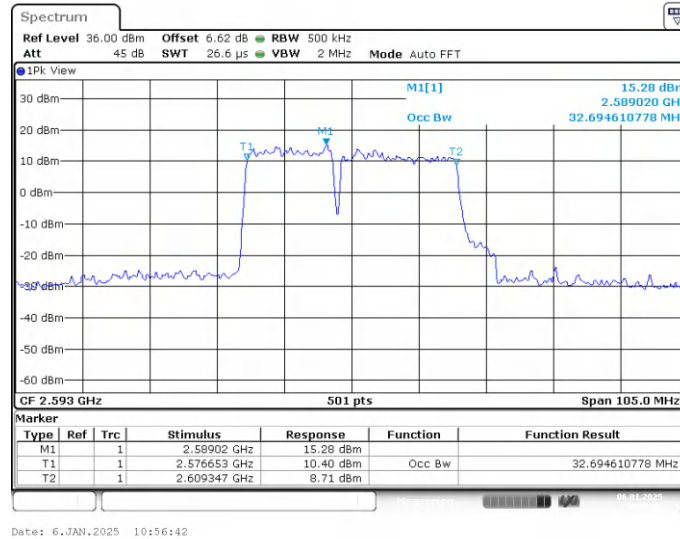
LTE CA band 41C , 15MHz+15MHz Bandwidth,16QAM (99% BW)



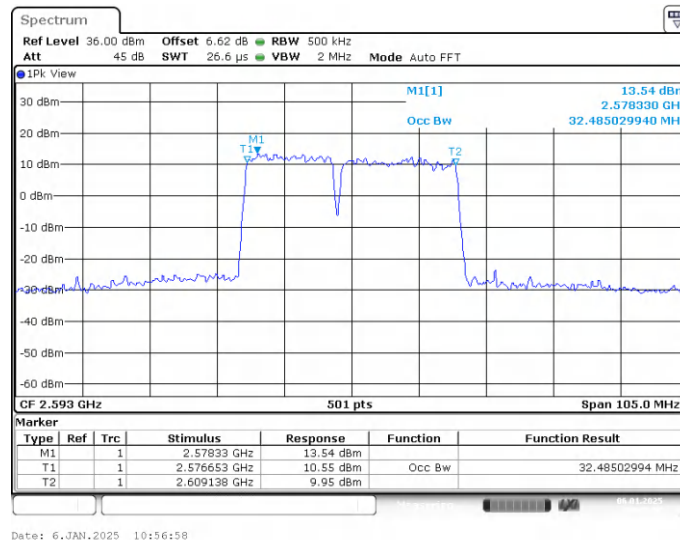
LTE CA band 41C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	32.695	32.485

LTE CA band 41C , 15MHz+20MHz Bandwidth,QPSK (99% BW)



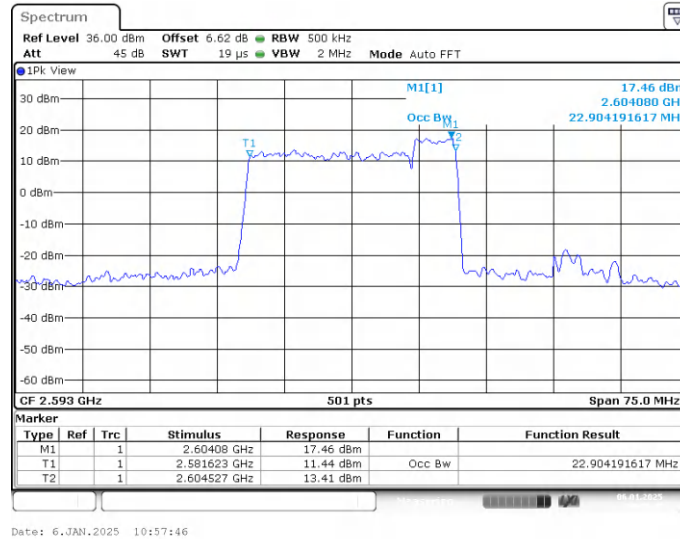
LTE CA band 41C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



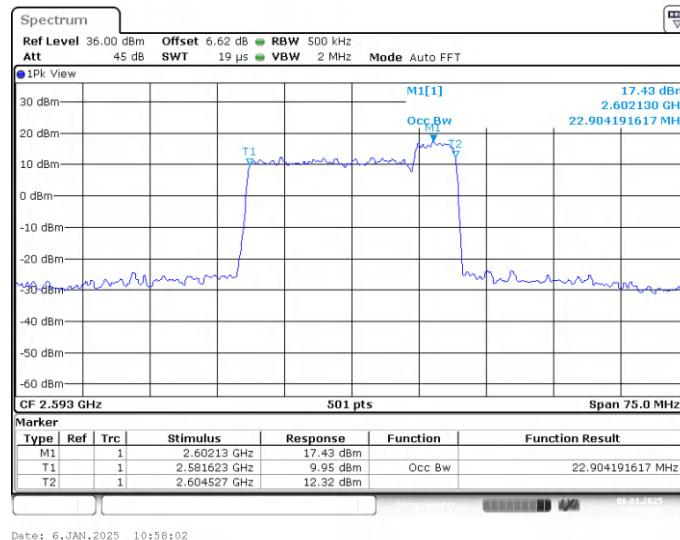
LTE CA band 41C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	22.904	22.904

LTE CA band 41C , 20MHz+5MHz Bandwidth,QPSK (99% BW)



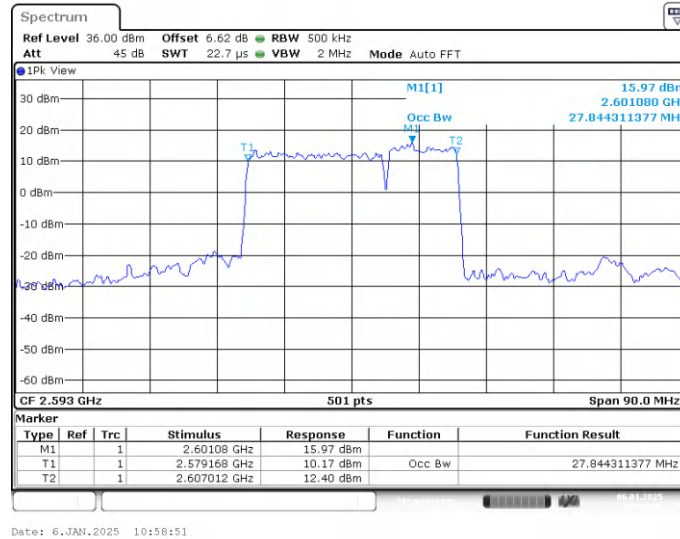
LTE CA band 41C , 20MHz+5MHz Bandwidth,16QAM (99% BW)



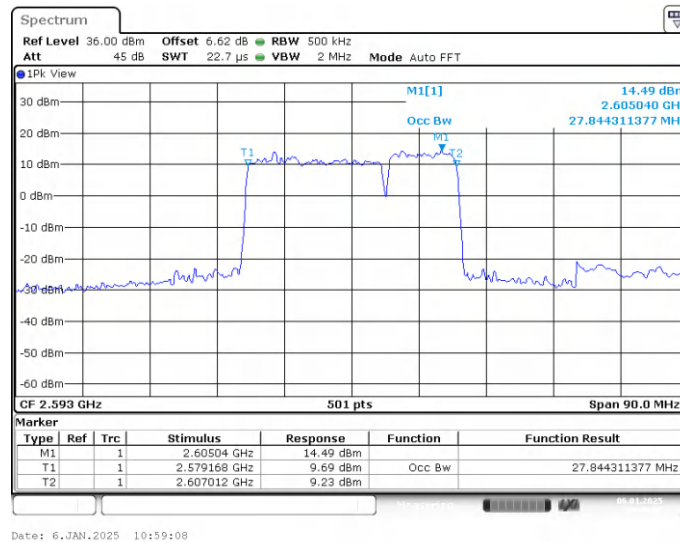
LTE CA band 41C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	27.844	27.844

LTE CA band 41C , 20MHz+10MHz Bandwidth,QPSK (99% BW)



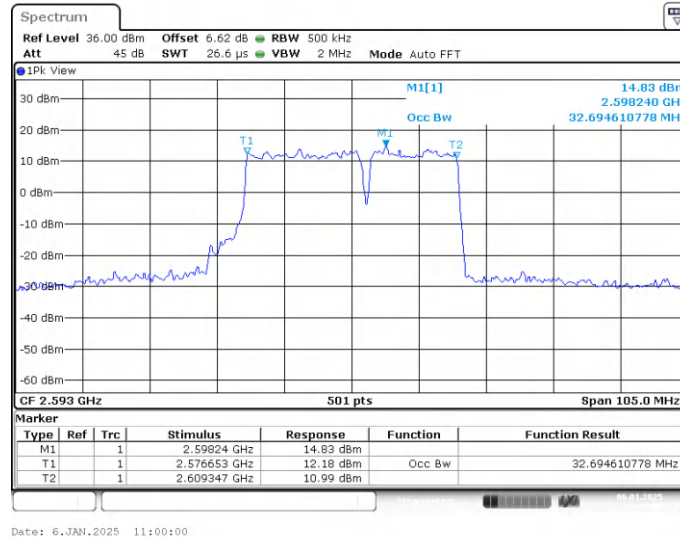
LTE CA band 41C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



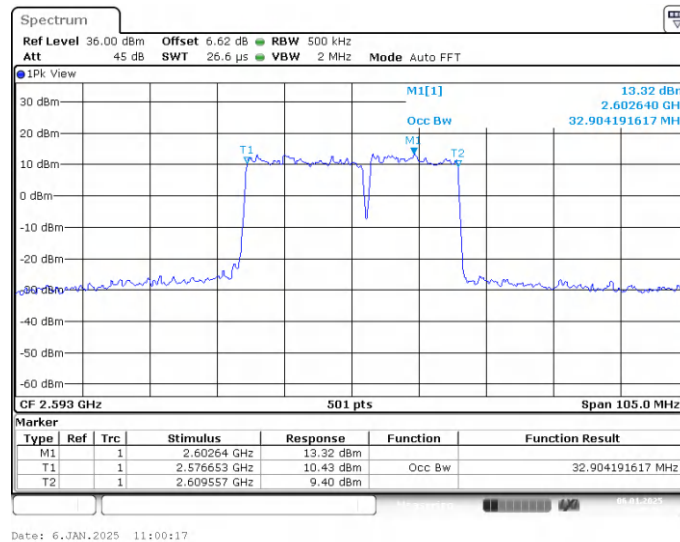
LTE CA band 41C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	32.695	32.904

LTE CA band 41C , 20MHz+15MHz Bandwidth,QPSK (99% BW)



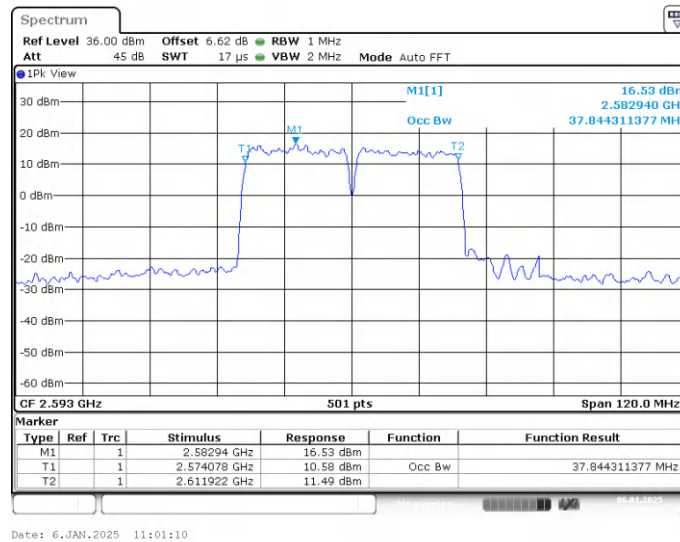
LTE CA band 41C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



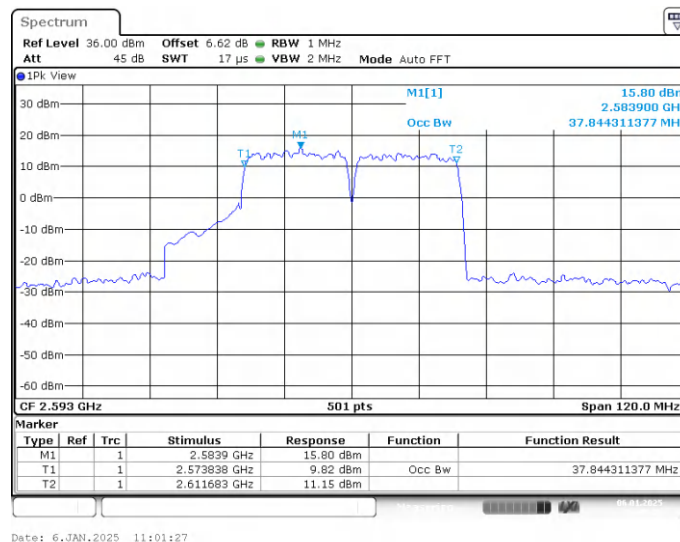
LTE CA band 41C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	37.844	37.844

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



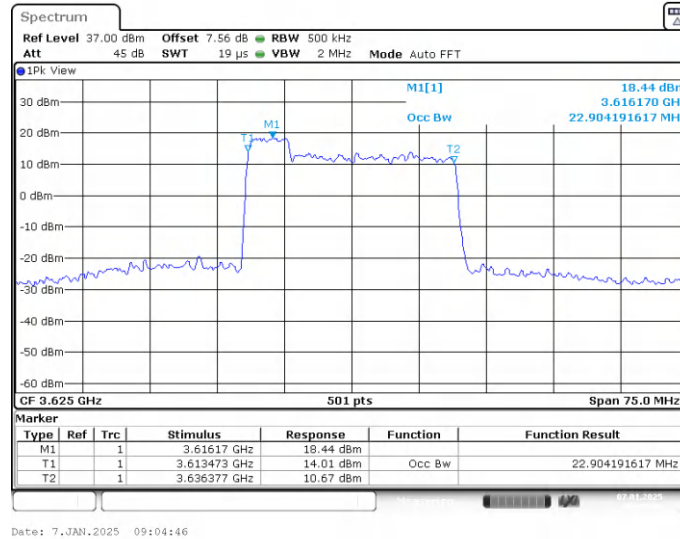
LTE CA band 41C , 20MHz+20MHz Bandwidth,16QAM (99% BW)



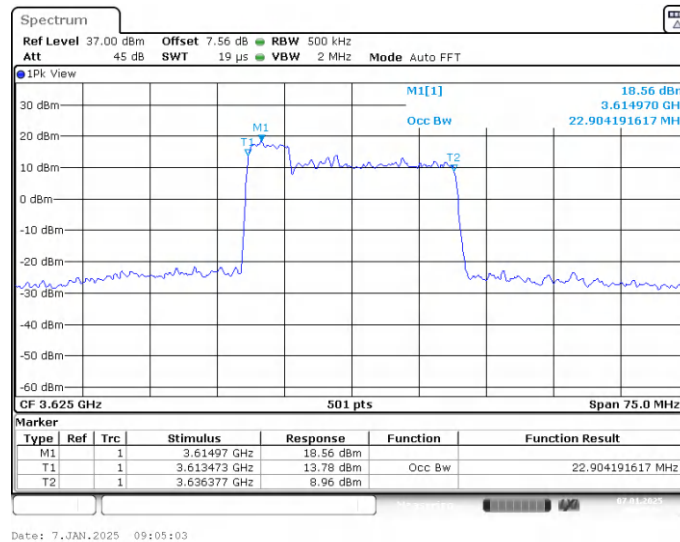
LTE CA band 48C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	22.904	22.904

LTE CA band 48C , 5MHz+20MHz Bandwidth,QPSK (99% BW)



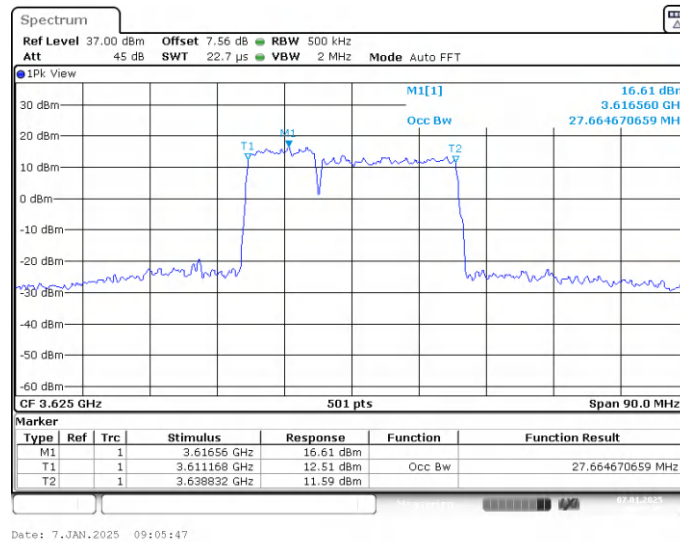
LTE CA band 48C , 5MHz+20MHz Bandwidth,16QAM (99% BW)



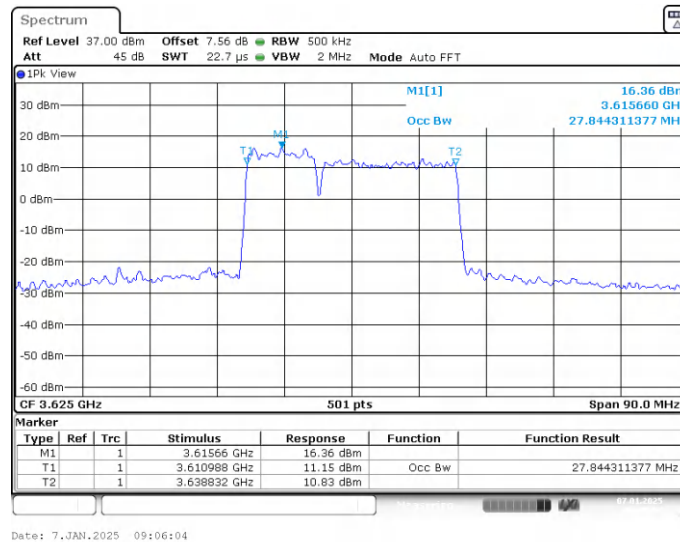
LTE CA band 48C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	27.665	27.844

LTE CA band 48C , 10MHz+20MHz Bandwidth,QPSK (99% BW)



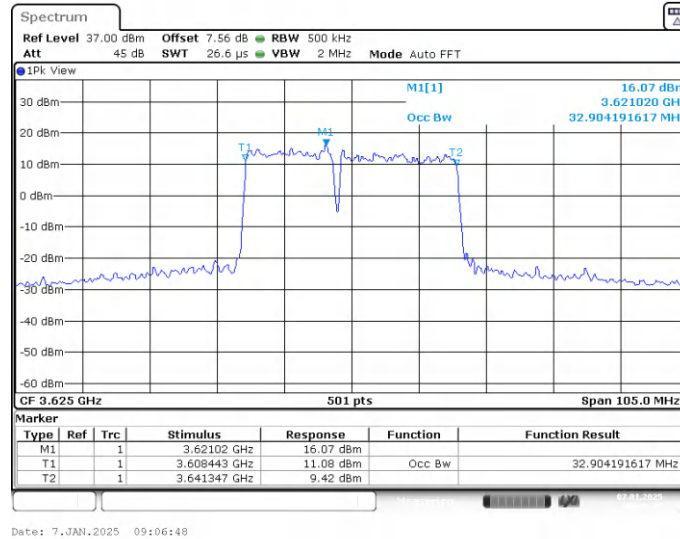
LTE CA band 48C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



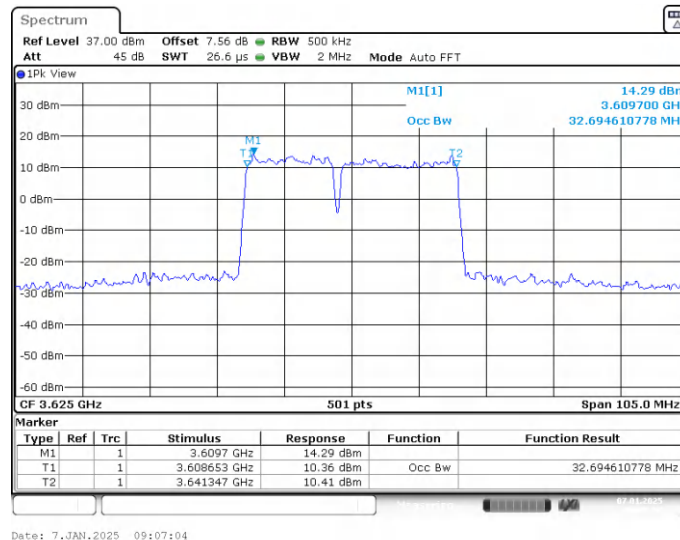
LTE CA band 48C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	32.904	32.695

LTE CA band 48C , 15MHz+20MHz Bandwidth,QPSK (99% BW)



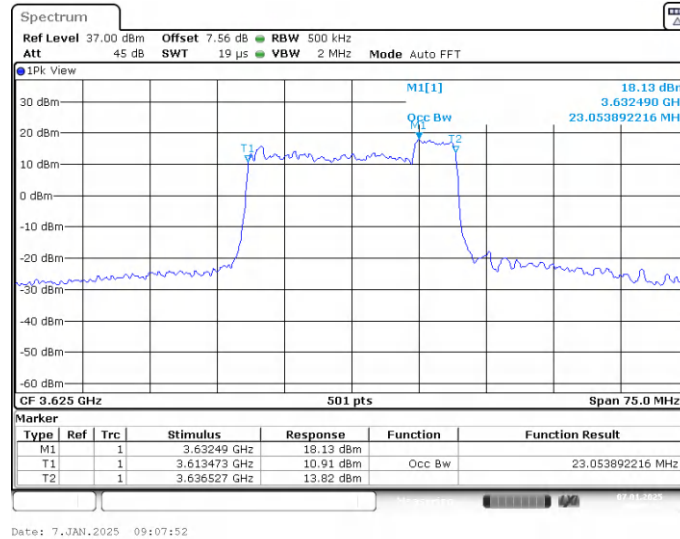
LTE CA band 48C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



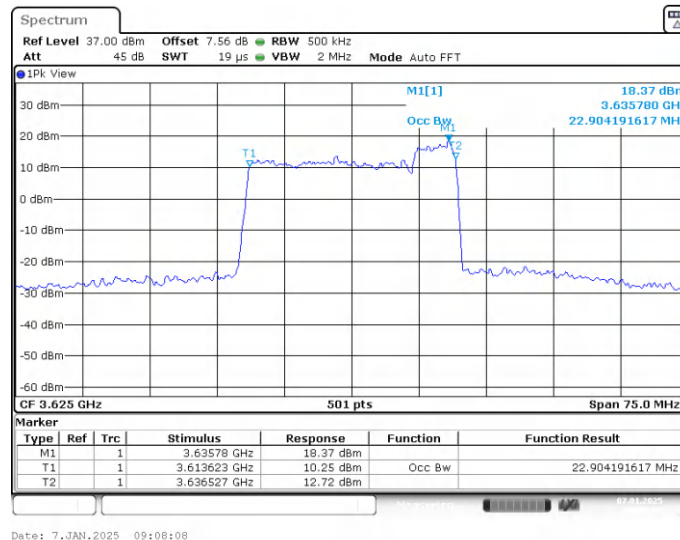
LTE CA band 48C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	23.054	22.904

LTE CA band 48C , 20MHz+5MHz Bandwidth,QPSK (99% BW)



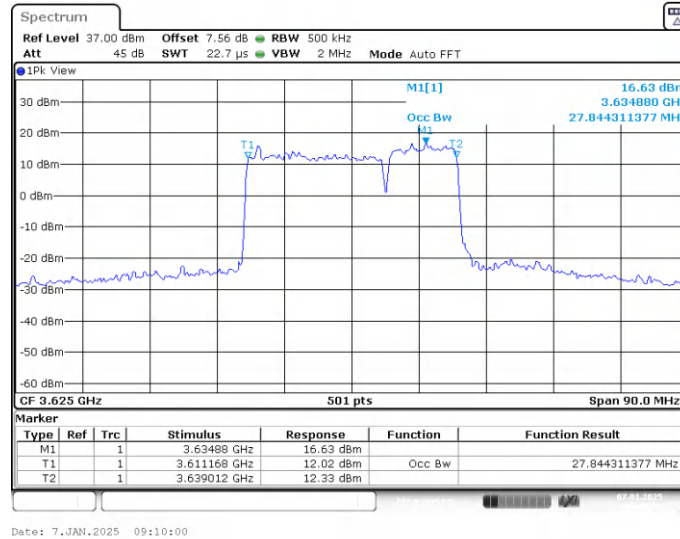
LTE CA band 48C , 20MHz+5MHz Bandwidth,16QAM (99% BW)



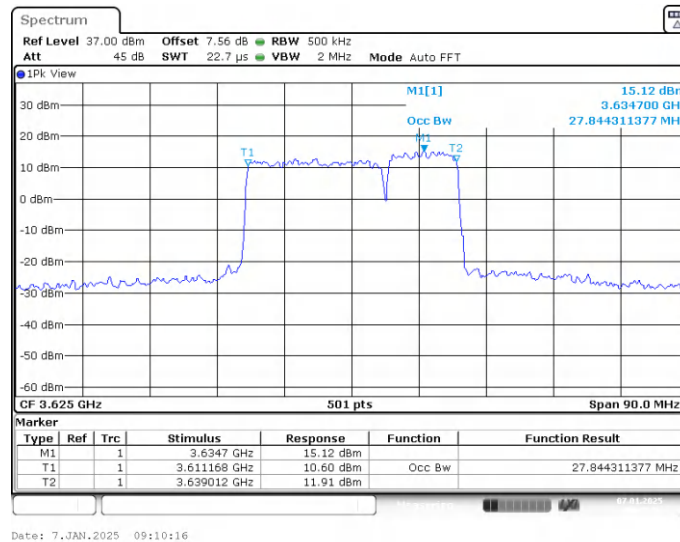
LTE CA band 48C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	27.844	27.844

LTE CA band 48C , 20MHz+10MHz Bandwidth,QPSK (99% BW)



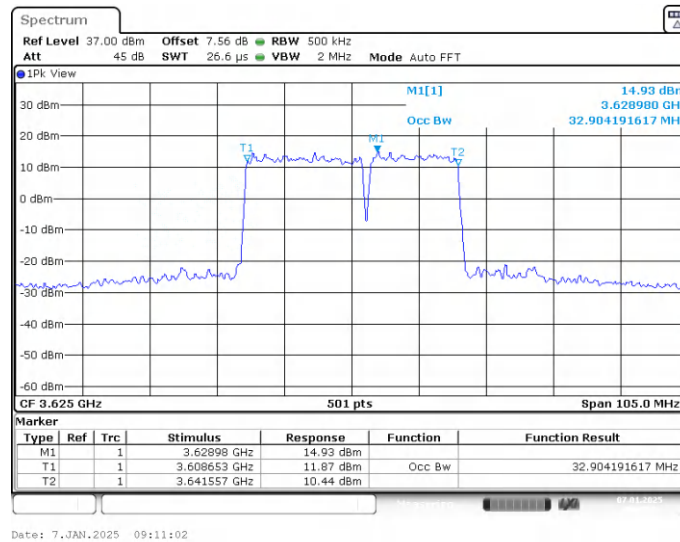
LTE CA band 48C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



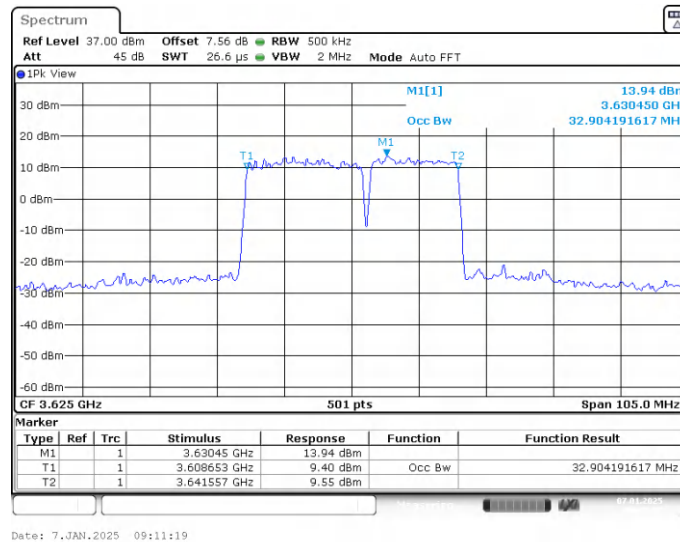
LTE CA band 48C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	32.904	32.904

LTE CA band 48C , 20MHz+15MHz Bandwidth,QPSK (99% BW)



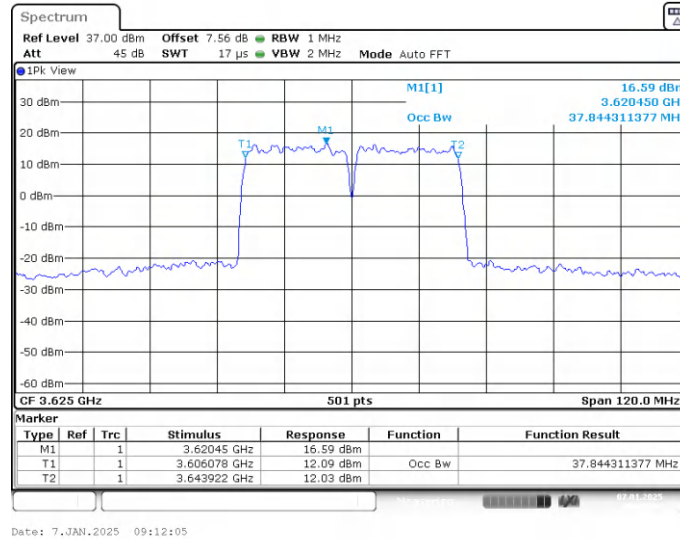
LTE CA band 48C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



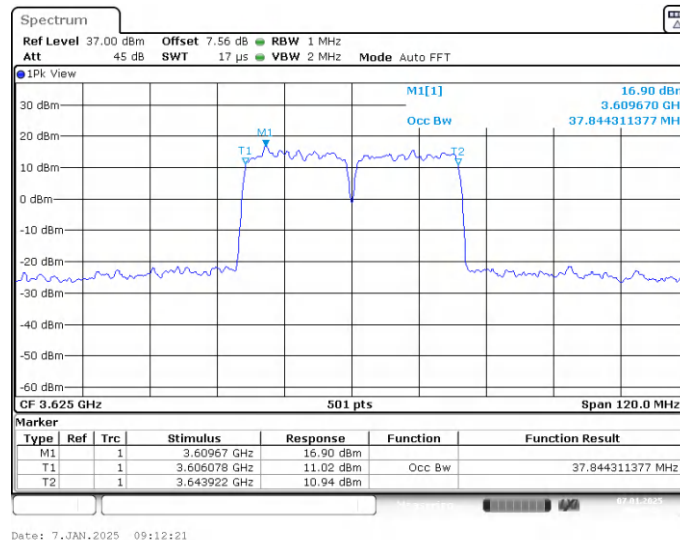
LTE CA band 48C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	37.844	37.844

LTE CA band 48C , 20MHz+20MHz Bandwidth,QPSK (99% BW)



LTE CA band 48C , 20MHz+20MHz Bandwidth,16QAM (99% BW)

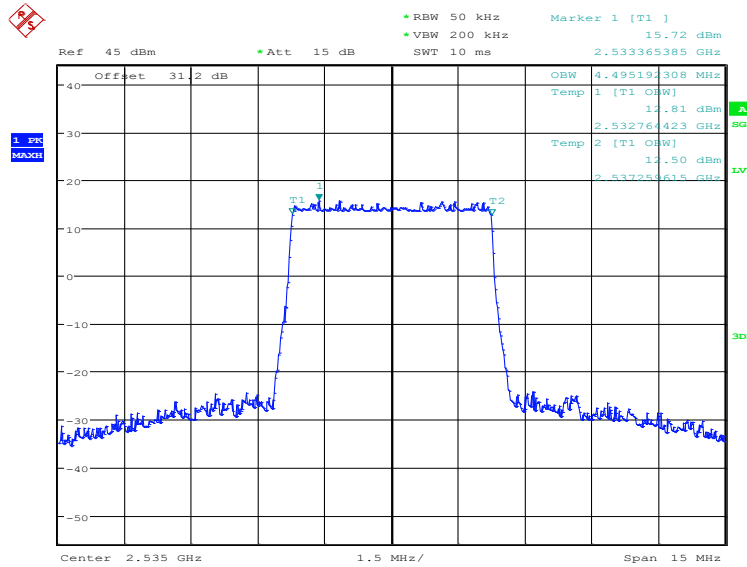


Reference Measurement Results from 24T04Z102259:

LTE band 7, 5MHz (99%)

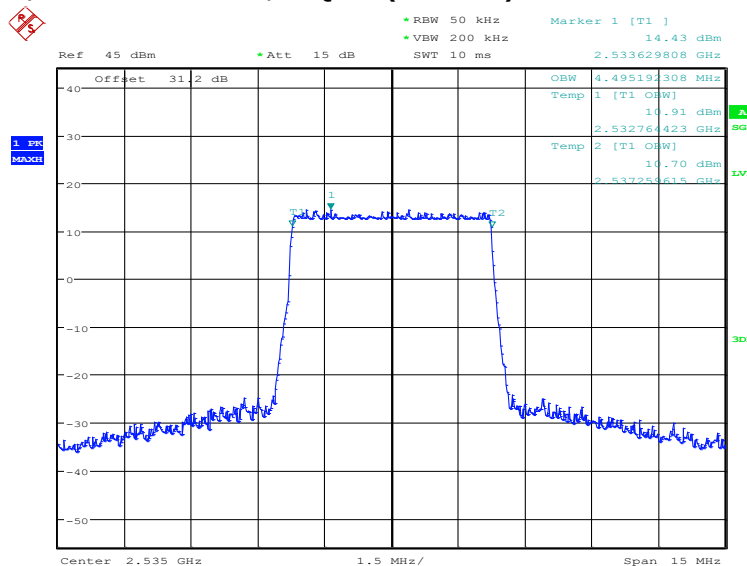
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4495.19

LTE band 7, 5MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 14:14:27

LTE band 7, 5MHz Bandwidth, 16QAM (99% BW)

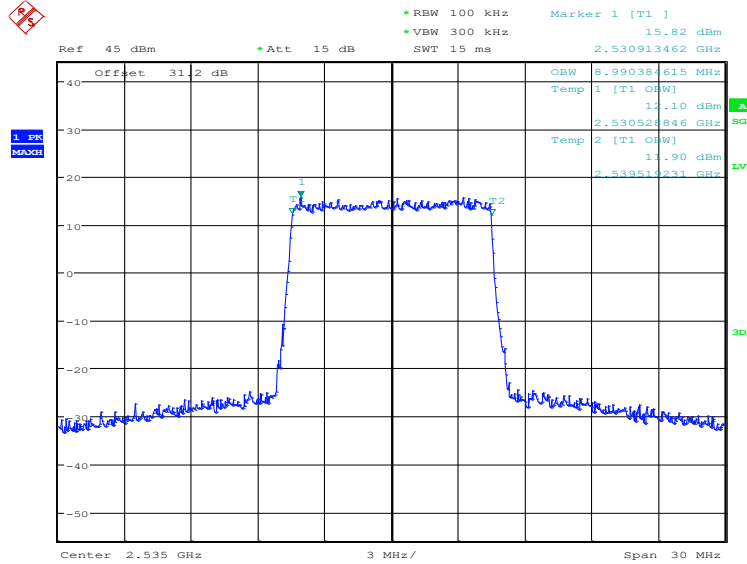


Date: 9.OCT.2024 14:15:07

LTE band 7, 10MHz (99%)

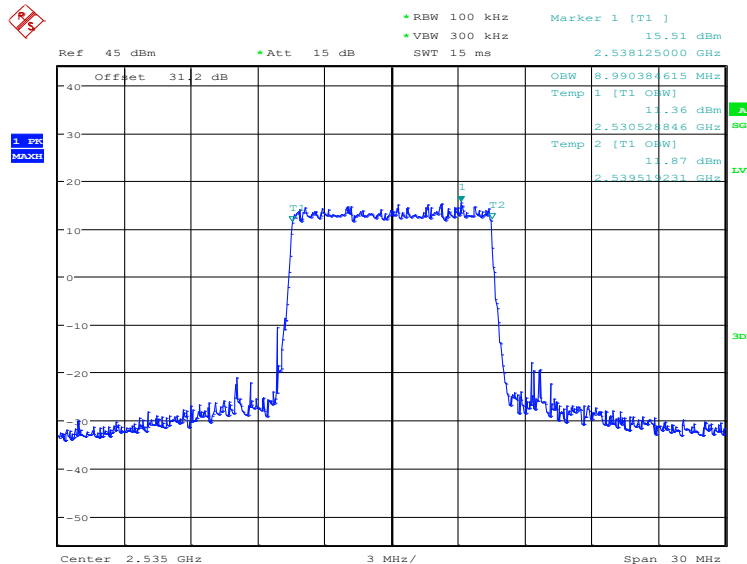
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	8990.38

LTE band 7, 10MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 14:15:49

LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)

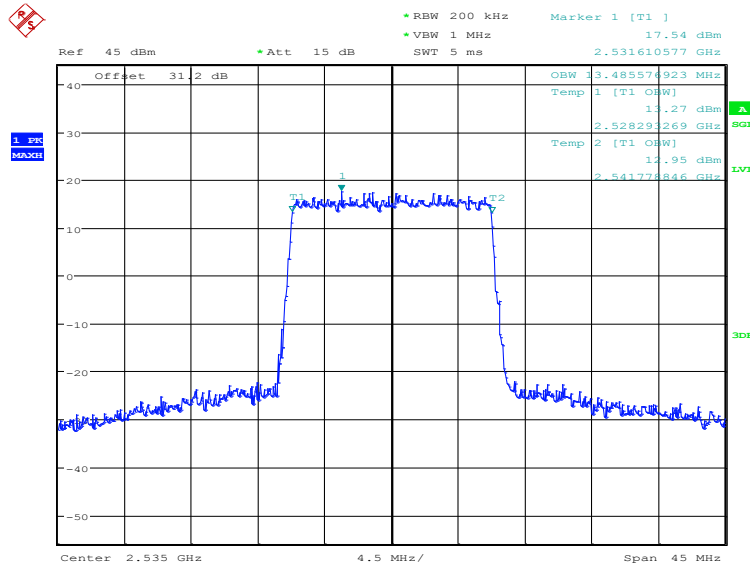


Date: 9.OCT.2024 14:16:29

LTE band 7, 15MHz (99%)

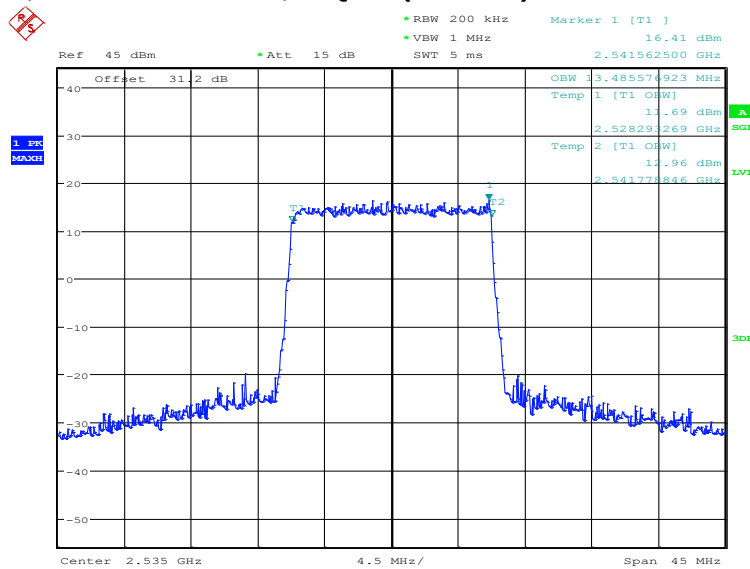
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

LTE band 7, 15MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 14:17:11

LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)

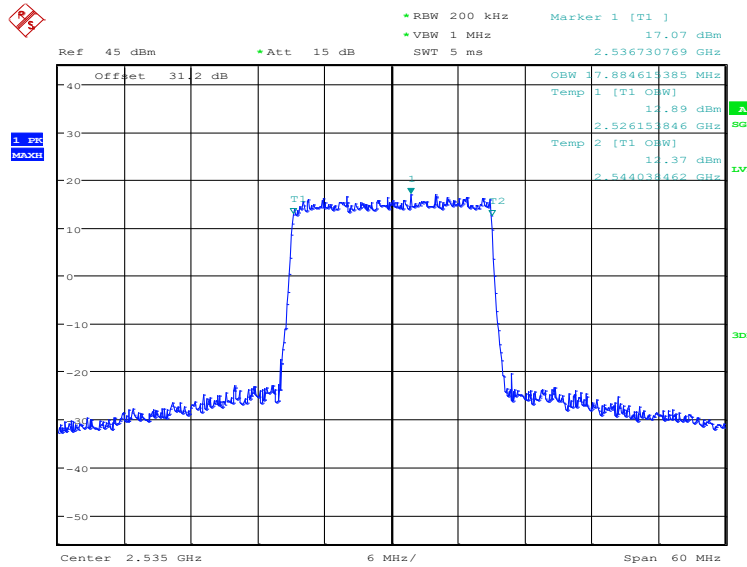


Date: 9.OCT.2024 14:17:51

LTE band 7, 20MHz (99%)

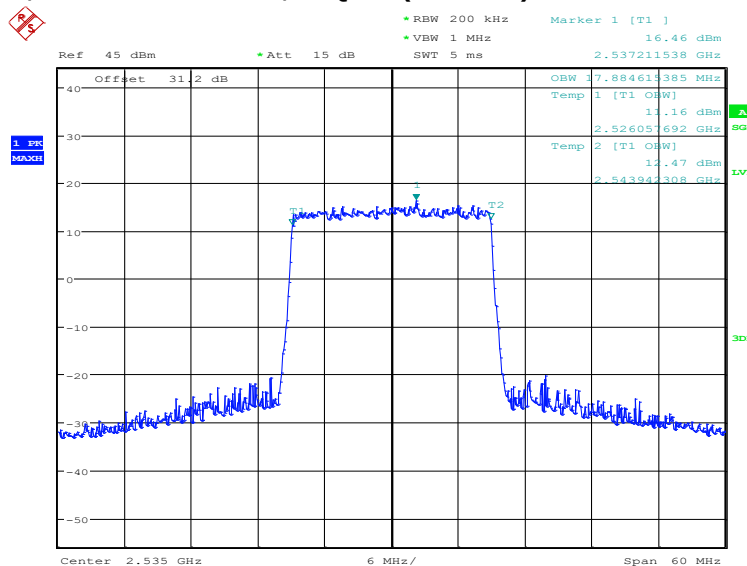
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17884.62	17884.62

LTE band 7, 20MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 14:18:33

LTE band 7, 20MHz Bandwidth, 16QAM (99% BW)

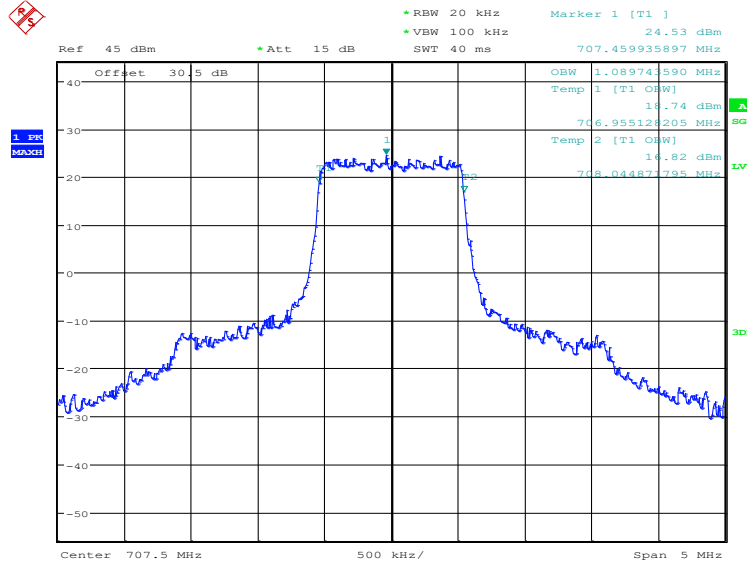


Date: 9.OCT.2024 14:19:13

LTE band 12, 1.4MHz (99%)

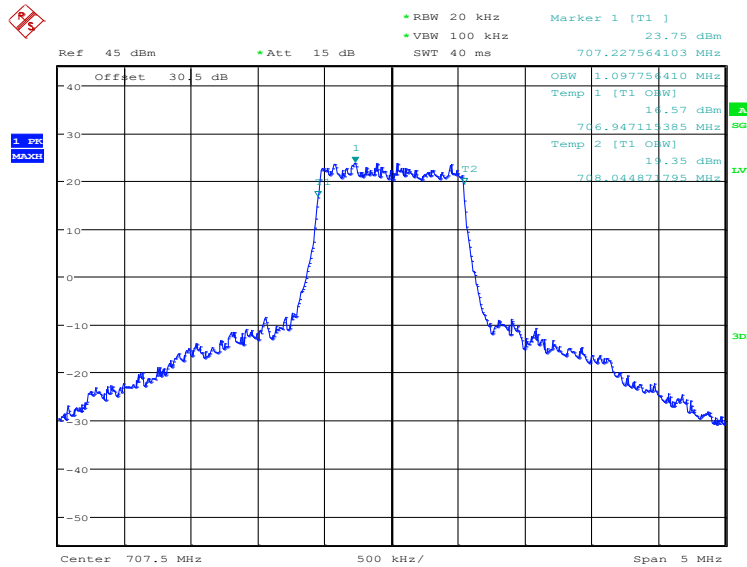
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1097.76

LTE band 12, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:33:39

LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)

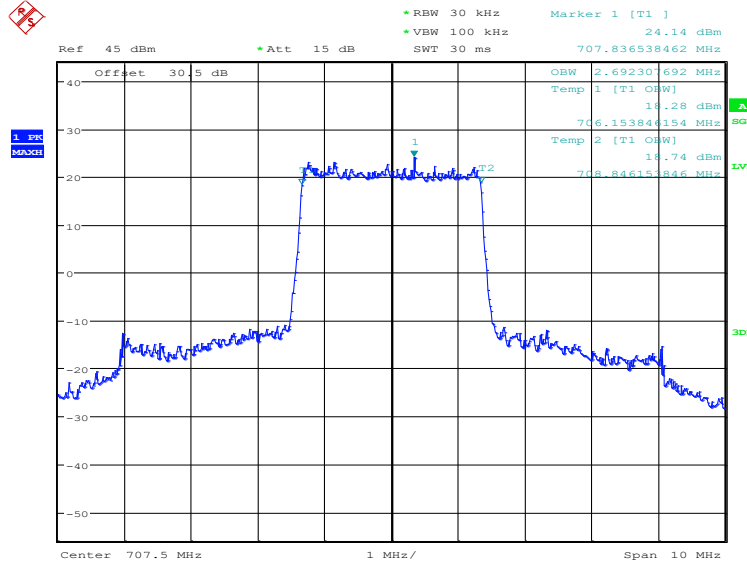


Date: 9.OCT.2024 10:34:19

LTE band 12, 3MHz (99%)

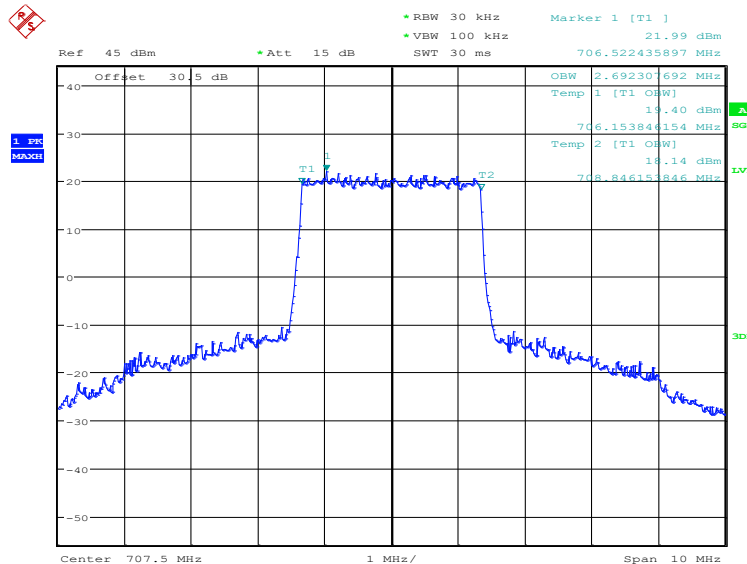
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

LTE band 12, 3MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:35:02

LTE band 12, 3MHz Bandwidth, 16QAM (99% BW)

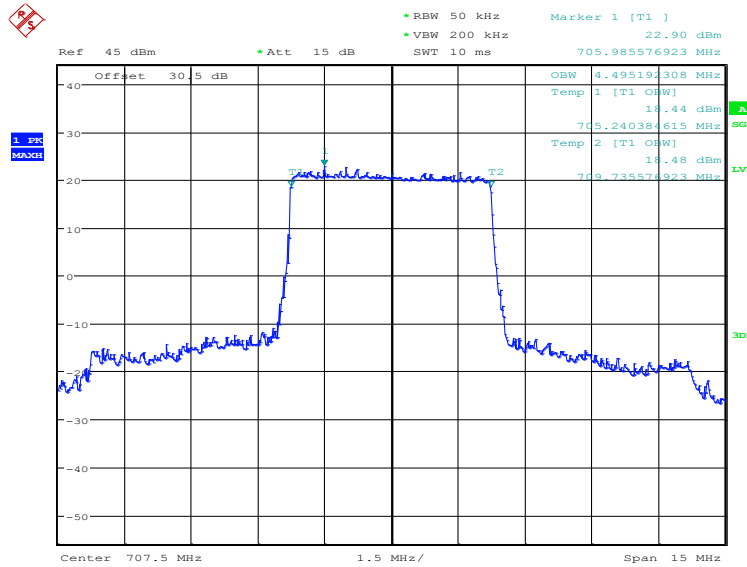


Date: 9.OCT.2024 10:35:42

LTE band 12, 5MHz (99%)

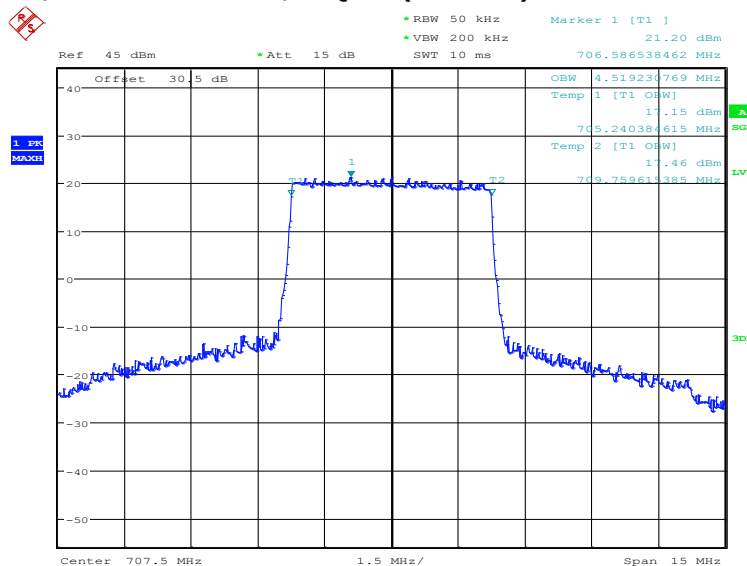
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4519.23

LTE band 12, 5MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:36:24

LTE band 12, 5MHz Bandwidth, 16QAM (99% BW)

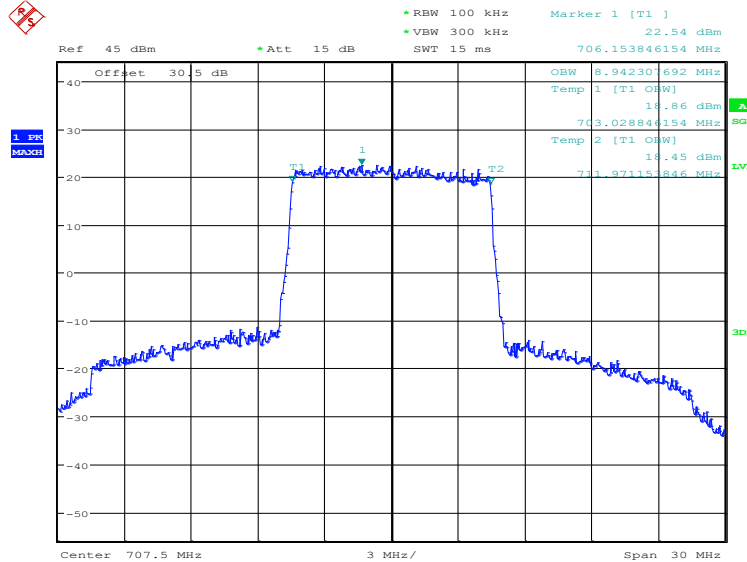


Date: 9.OCT.2024 10:37:04

LTE band 12, 10MHz (99%)

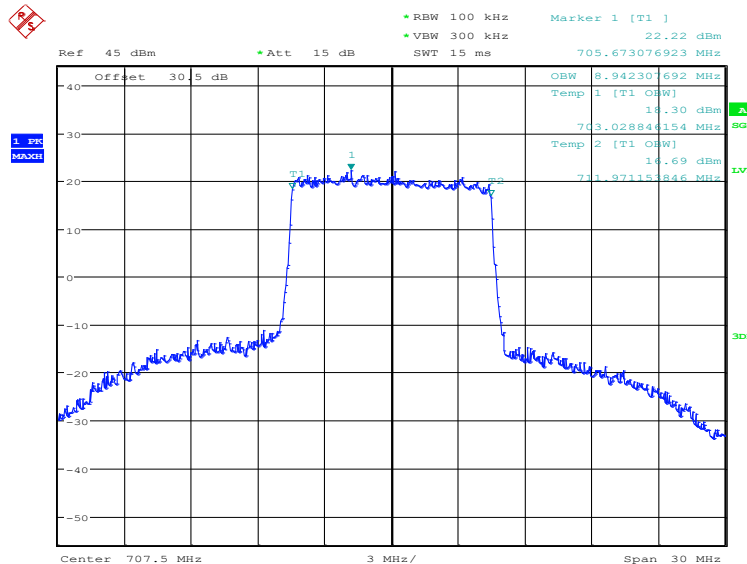
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8942.31	8942.31

LTE band 12, 10MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:37:46

LTE band 12, 10MHz Bandwidth, 16QAM (99% BW)

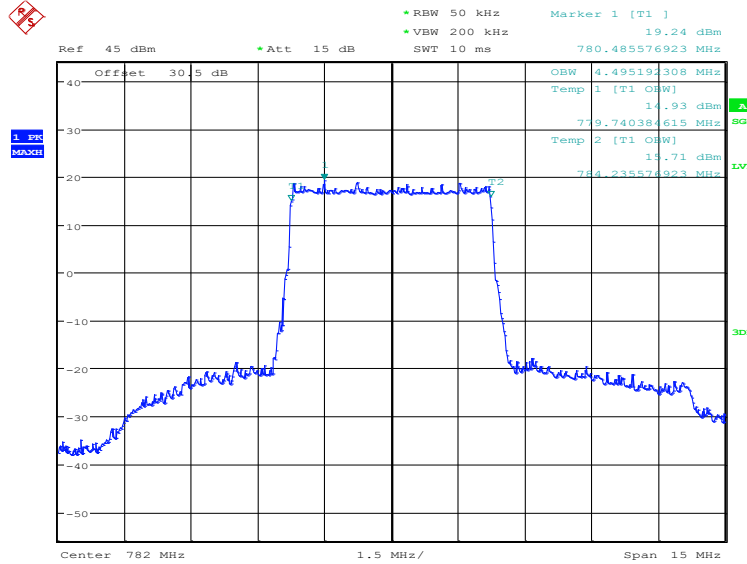


Date: 9.OCT.2024 10:38:26

LTE band 13, 5MHz (99%)

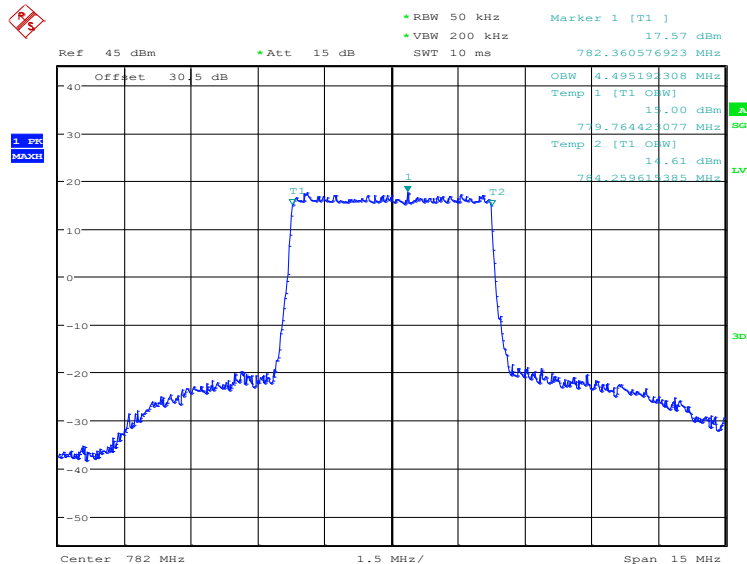
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 9.OCT.2024 10:39:10

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

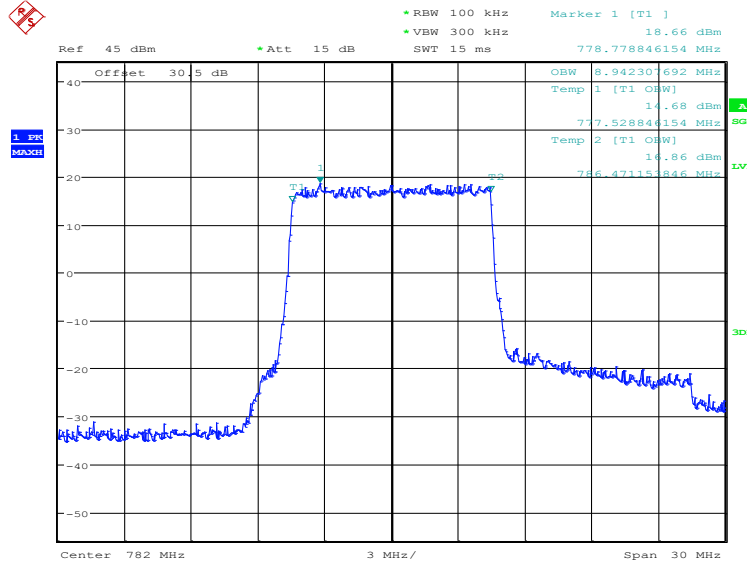


Date: 9.OCT.2024 10:39:50

LTE band 13, 10MHz (99%)

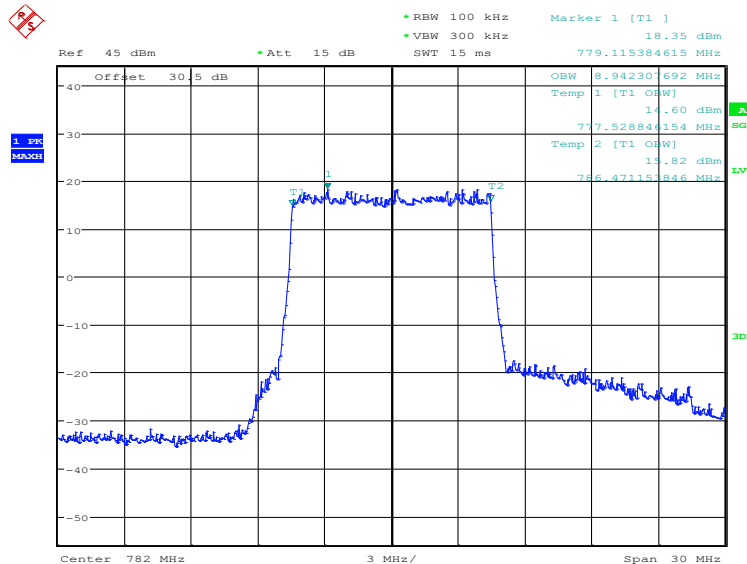
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.OCT.2024 10:40:32

LTE band 13, 10MHz Bandwidth,16QAM (99% BW)

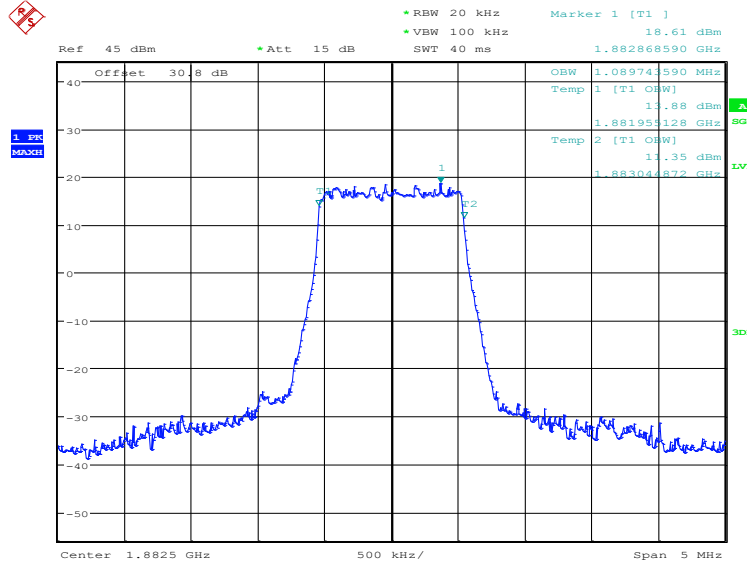


Date: 9.OCT.2024 10:41:12

LTE band 25, 1.4MHz (99%)

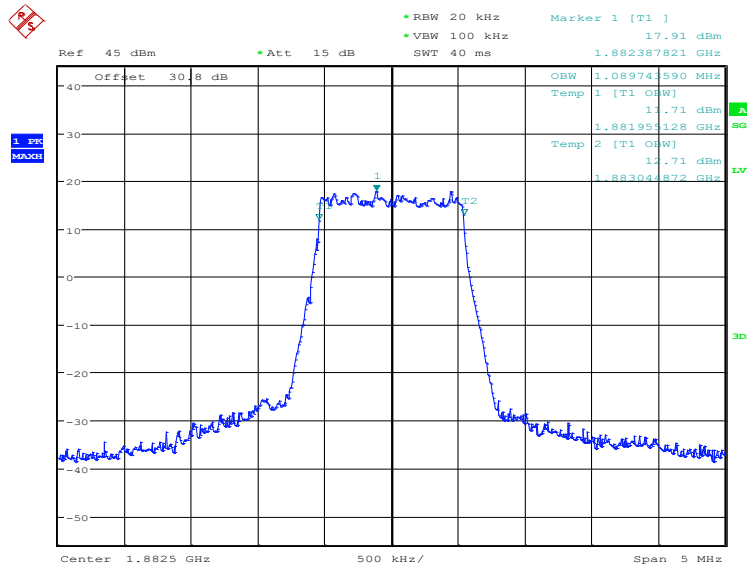
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1089.74	1089.74

LTE band 25, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:08:40

LTE band 25, 1.4MHz Bandwidth, 16QAM (99% BW)

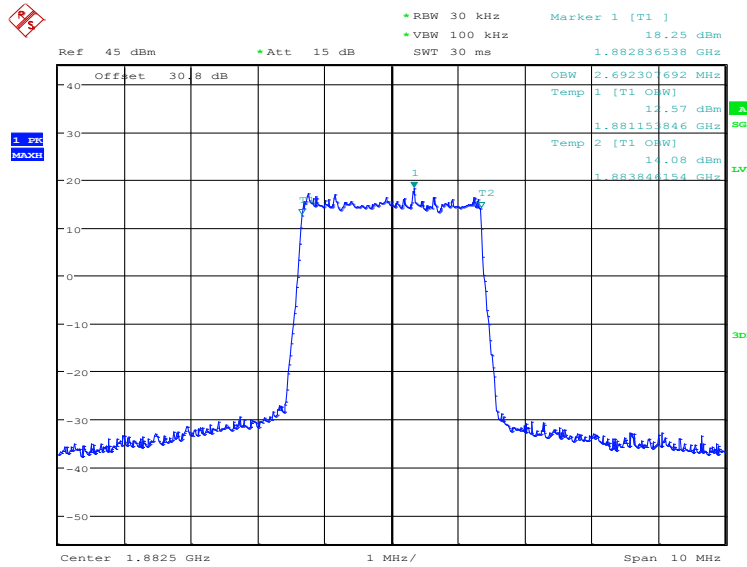


Date: 9.OCT.2024 09:09:20

LTE band 25, 3MHz (99%)

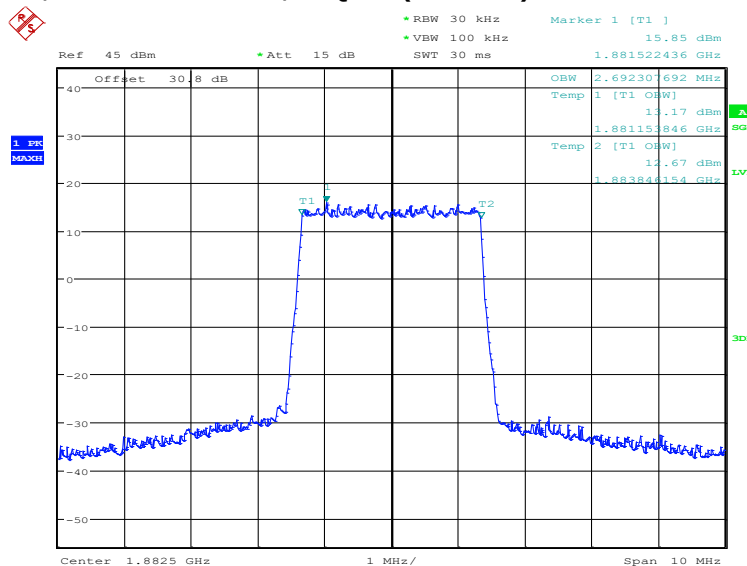
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

LTE band 25, 3MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:10:02

LTE band 25, 3MHz Bandwidth, 16QAM (99% BW)

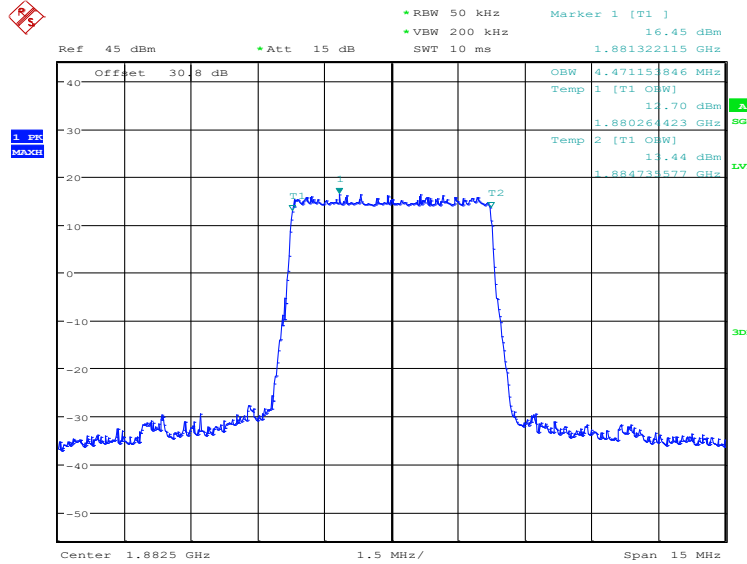


Date: 9.OCT.2024 09:10:42

LTE band 25, 5MHz (99%)

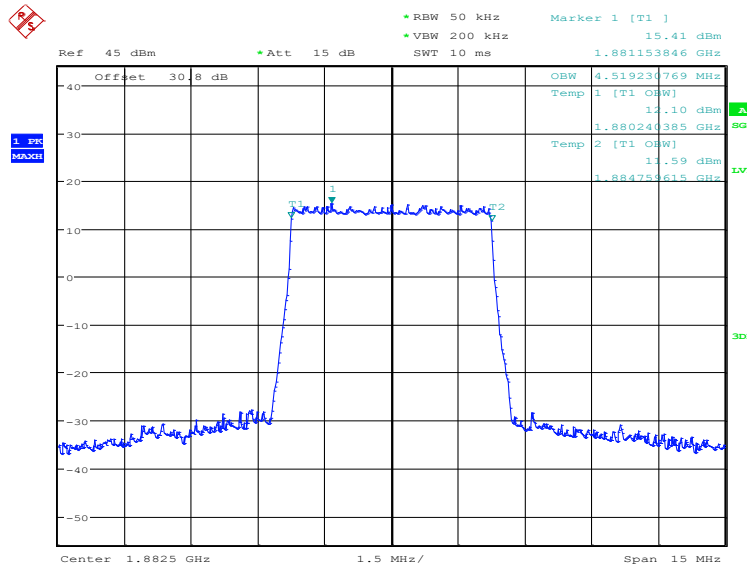
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4471.15	4519.23

LTE band 25, 5MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:11:24

LTE band 25, 5MHz Bandwidth, 16QAM (99% BW)

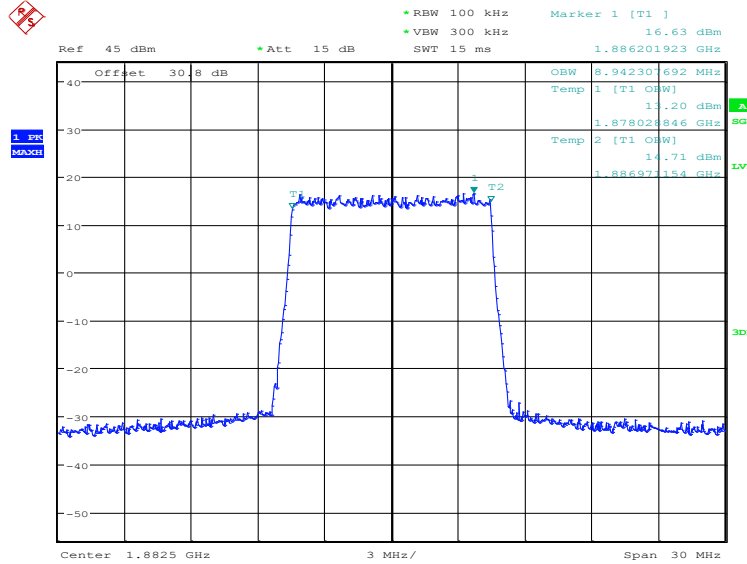


Date: 9.OCT.2024 09:12:04

LTE band 25, 10MHz (99%)

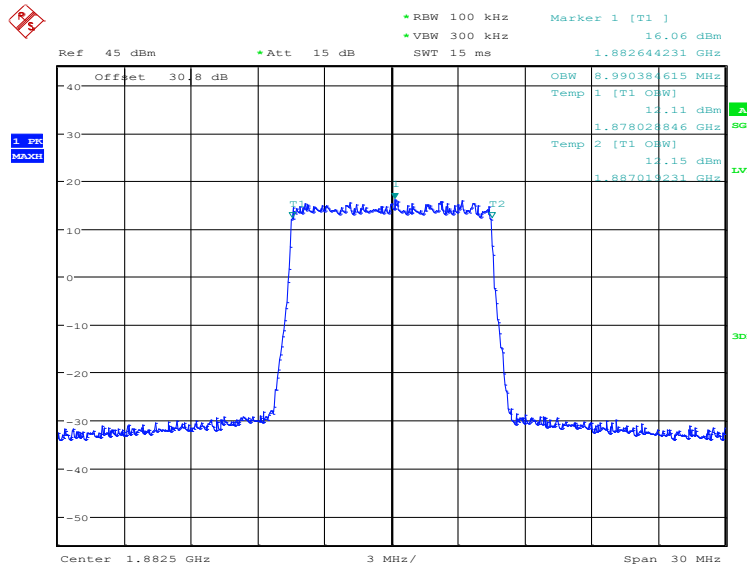
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8942.31	8990.38

LTE band 25, 10MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:12:46

LTE band 25, 10MHz Bandwidth, 16QAM (99% BW)

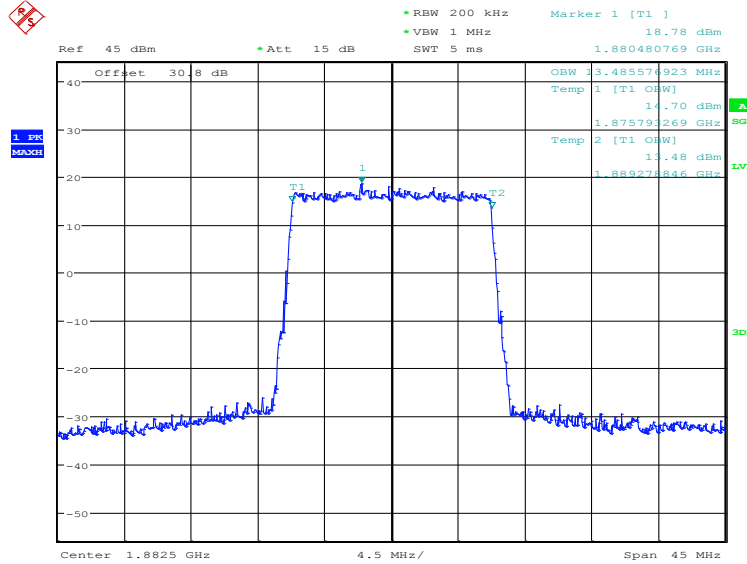


Date: 9.OCT.2024 09:13:26

LTE band 25, 15MHz (99%)

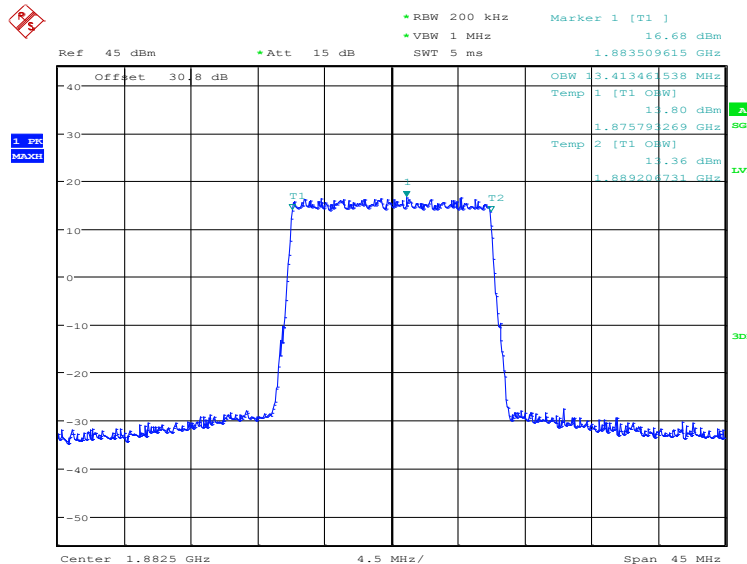
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13413.46

LTE band 25, 15MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:14:08

LTE band 25, 15MHz Bandwidth, 16QAM (99% BW)

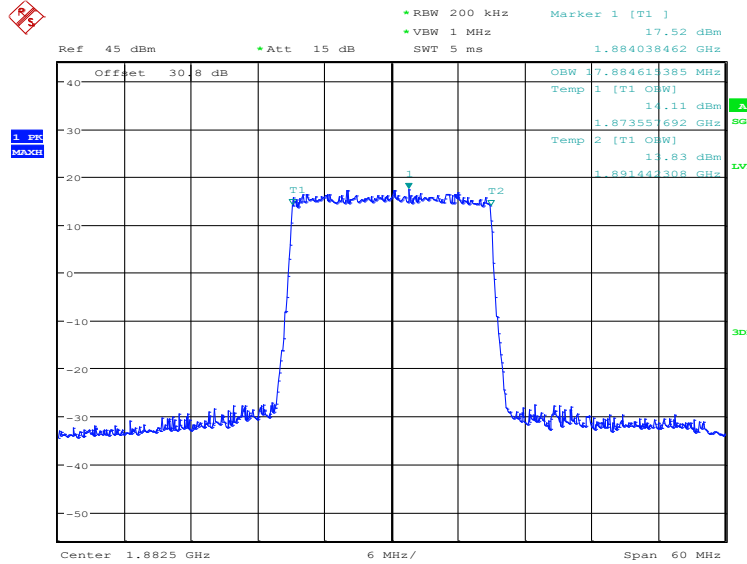


Date: 9.OCT.2024 09:14:48

LTE band 25, 20MHz (99%)

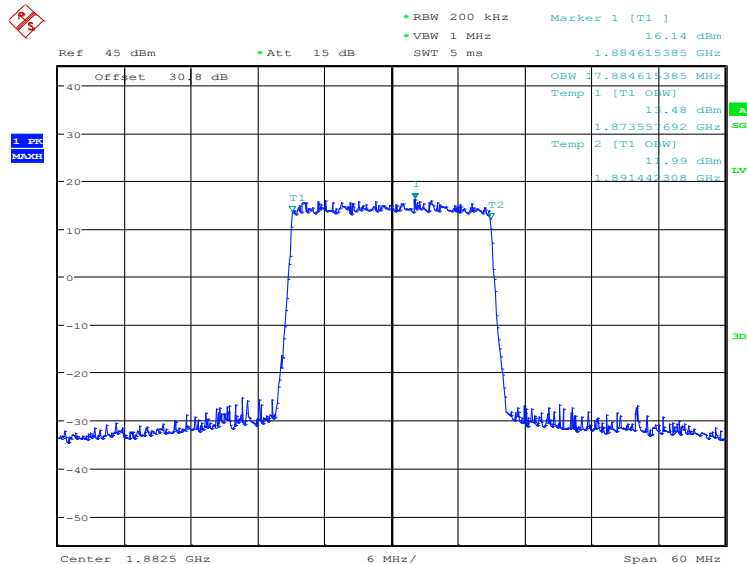
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17884.62	17884.62

LTE band 25, 20MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:15:30

LTE band 25, 20MHz Bandwidth, 16QAM (99% BW)

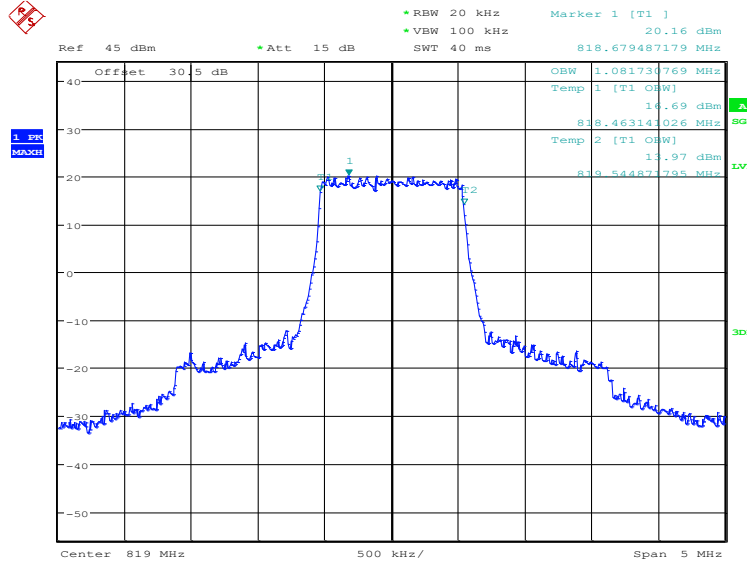


Date: 9.OCT.2024 09:16:10

LTE band 26(814MHz~824MHz), 1.4MHz (99%)

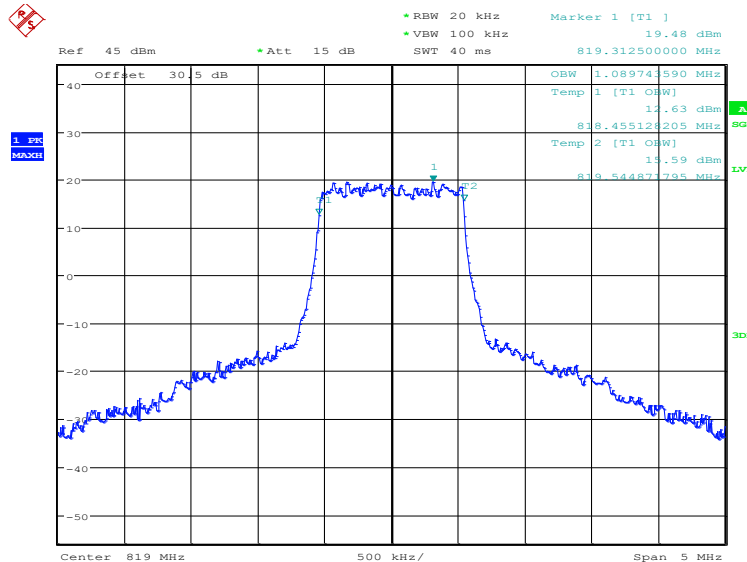
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1081.73	1089.74

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:52:17

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (99% BW)

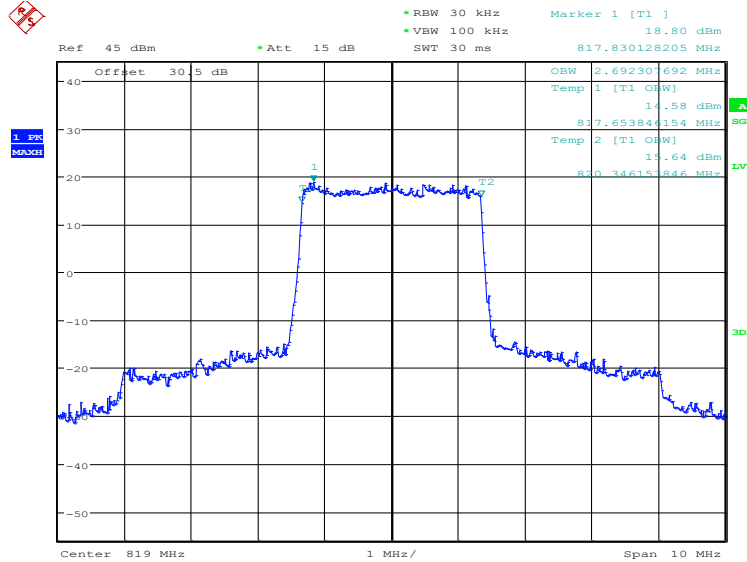


Date: 9.OCT.2024 10:52:57

LTE band 26(814MHz~824MHz), 3MHz (99%)

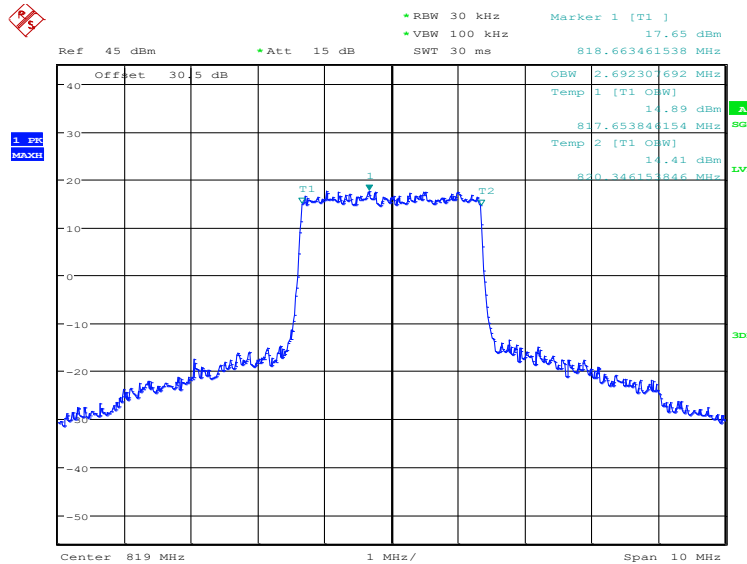
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:53:39

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (99% BW)

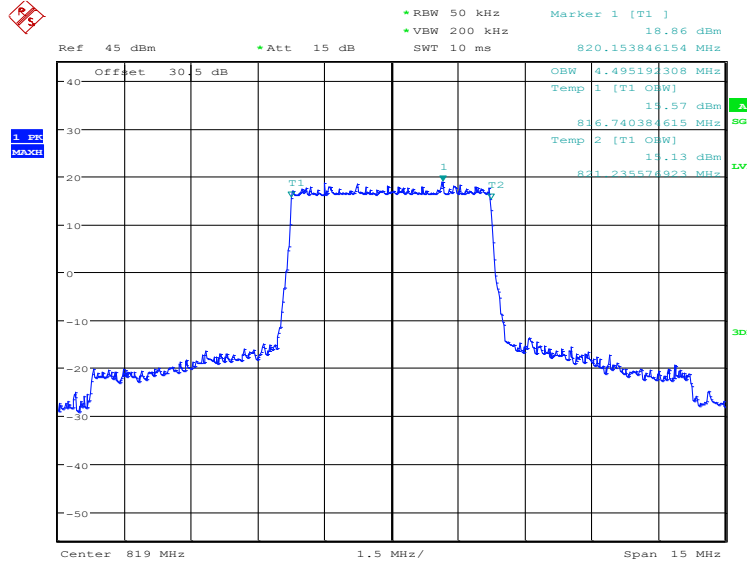


Date: 9.OCT.2024 10:54:19

LTE band 26(814MHz~824MHz), 5MHz (99%)

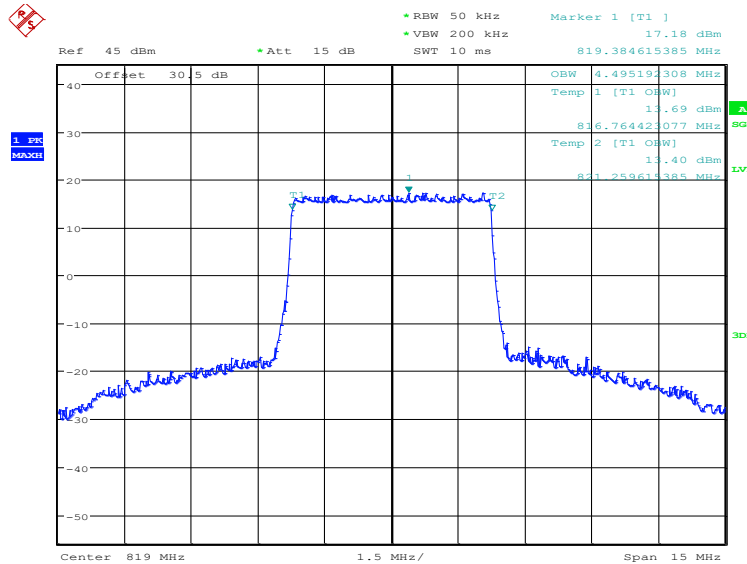
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4495.19

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:55:01

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (99% BW)

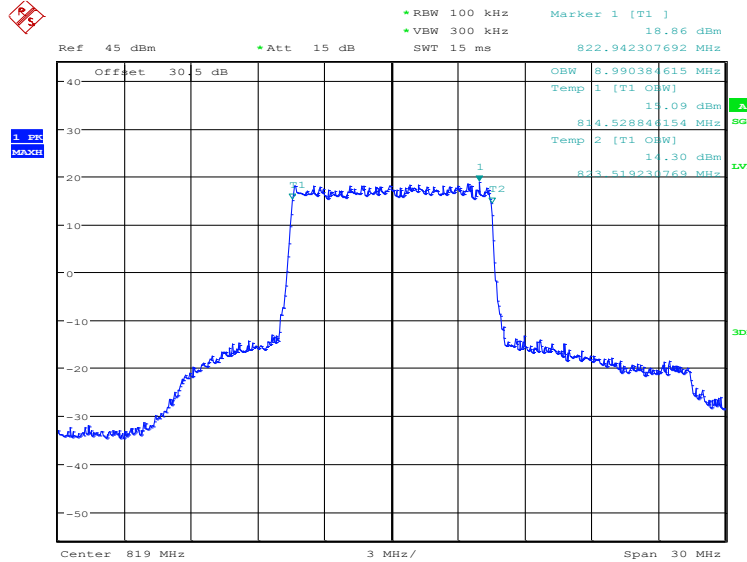


Date: 9.OCT.2024 10:55:42

LTE band 26(814MHz~824MHz), 10MHz (99%)

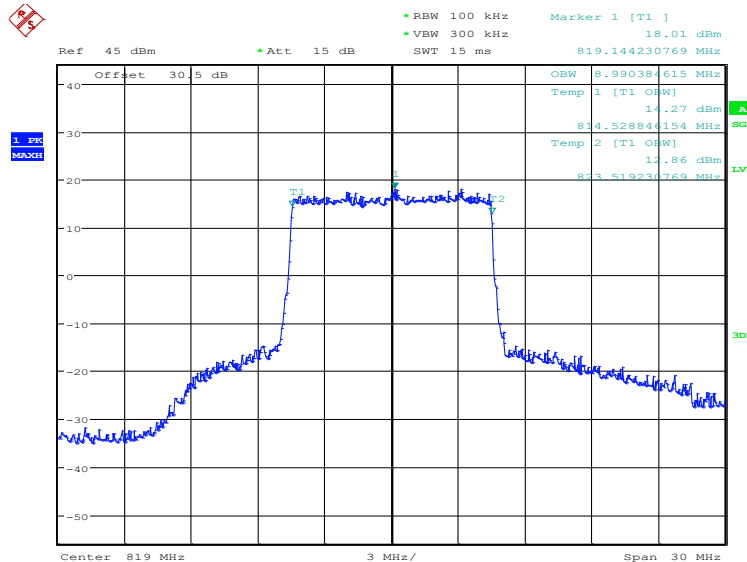
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8990.38	8990.38

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:56:24

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (99% BW)

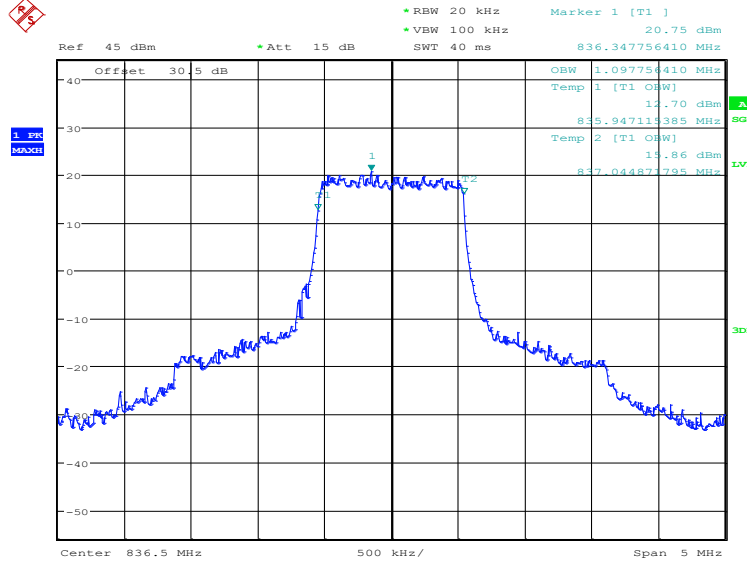


Date: 9.OCT.2024 10:57:04

LTE band 26(824MHz~849MHz), 1.4MHz (99%)

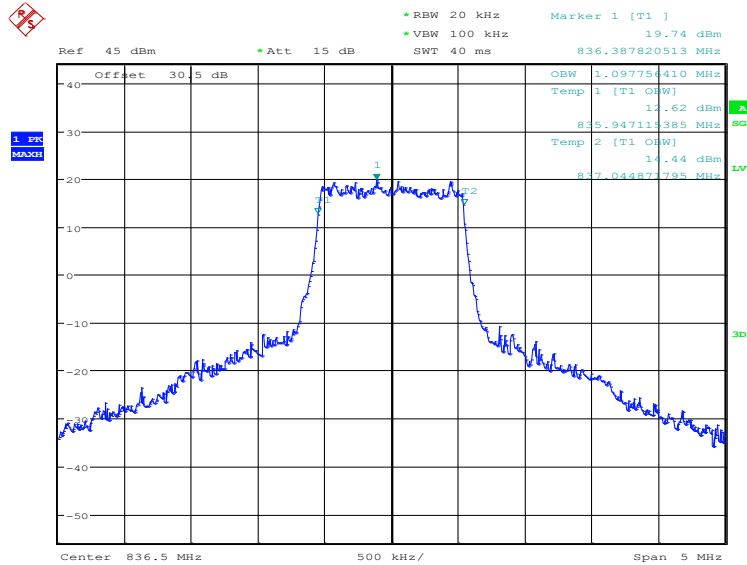
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1097.76	1097.76

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:44:44

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (99% BW)

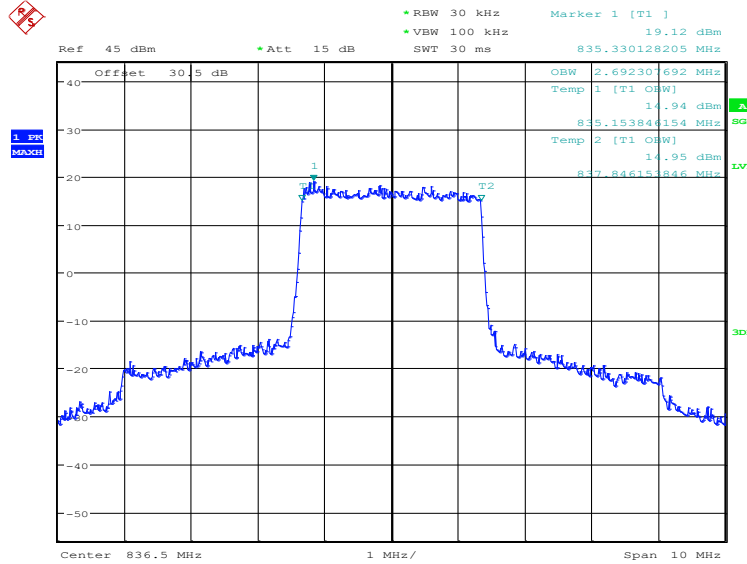


Date: 9.OCT.2024 10:45:24

LTE band 26(824MHz~849MHz), 3MHz (99%)

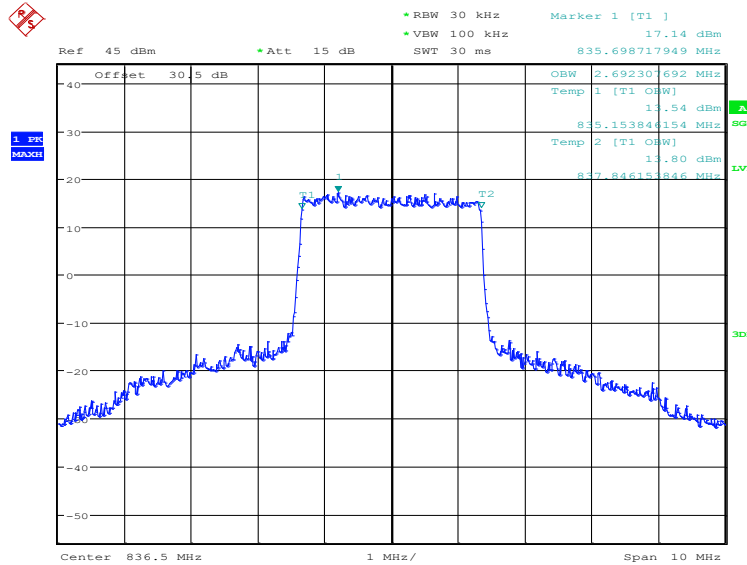
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:46:06

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (99% BW)

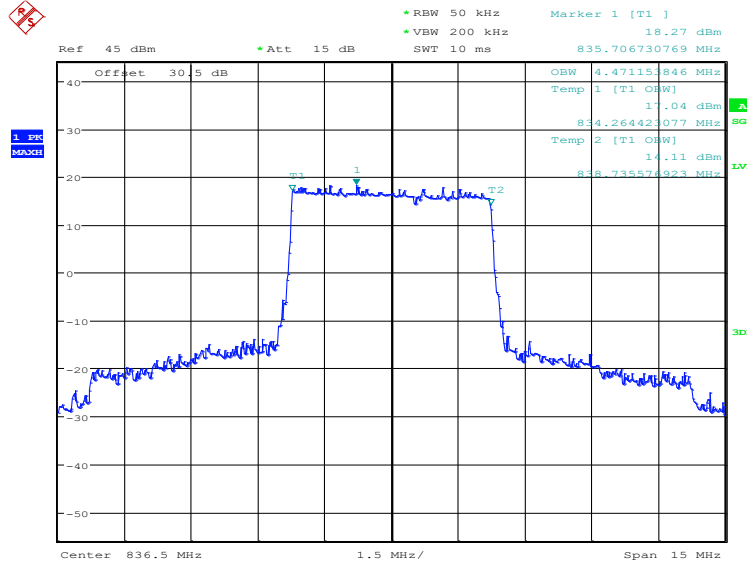


Date: 9.OCT.2024 10:46:46

LTE band 26(824MHz~849MHz), 5MHz (99%)

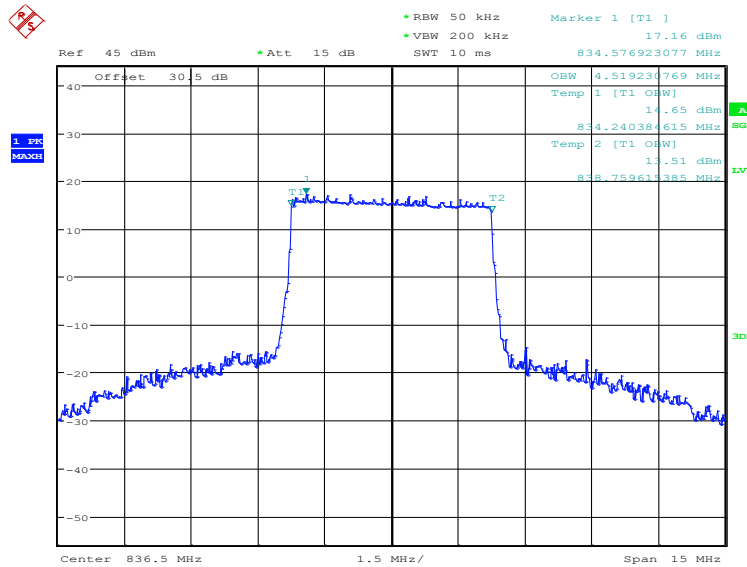
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4471.15	4519.23

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:47:29

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (99% BW)

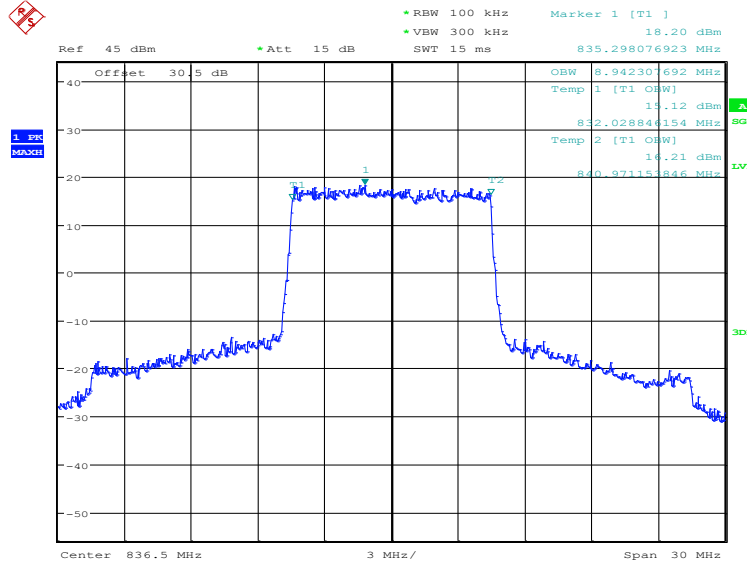


Date: 9.OCT.2024 10:48:09

LTE band 26(824MHz~849MHz), 10MHz (99%)

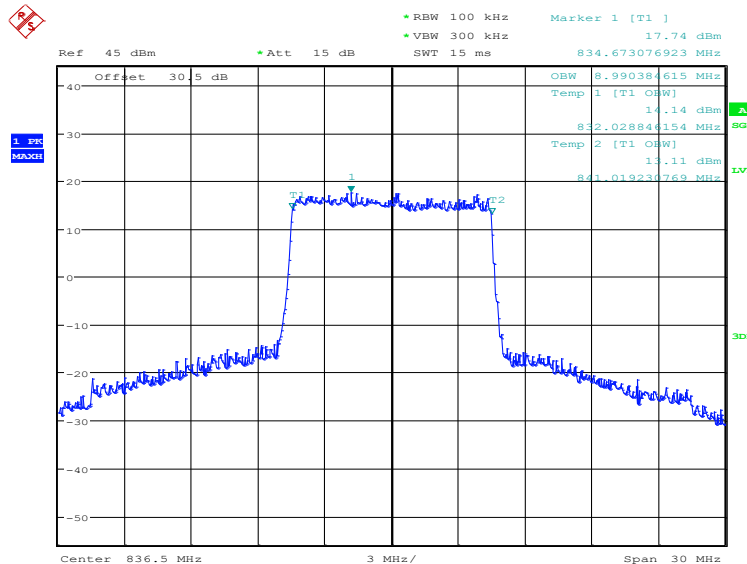
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8990.38

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:48:51

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (99% BW)

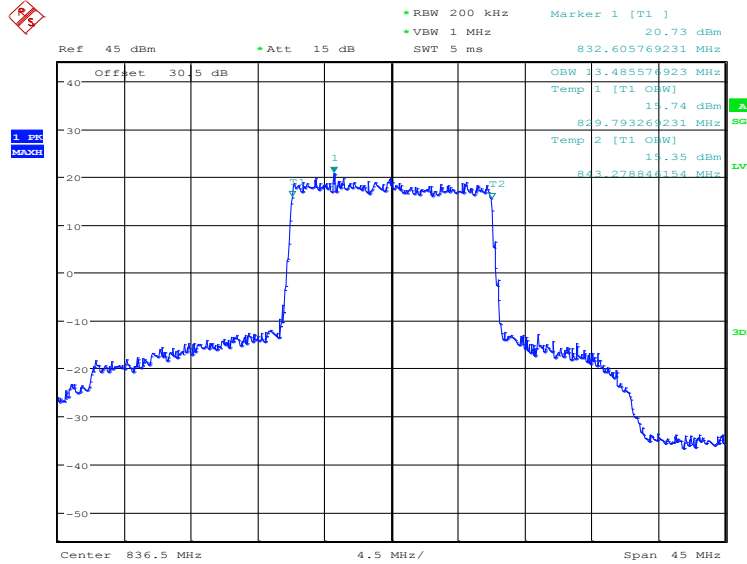


Date: 9.OCT.2024 10:49:31

LTE band 26(824MHz~849MHz), 15MHz (99%)

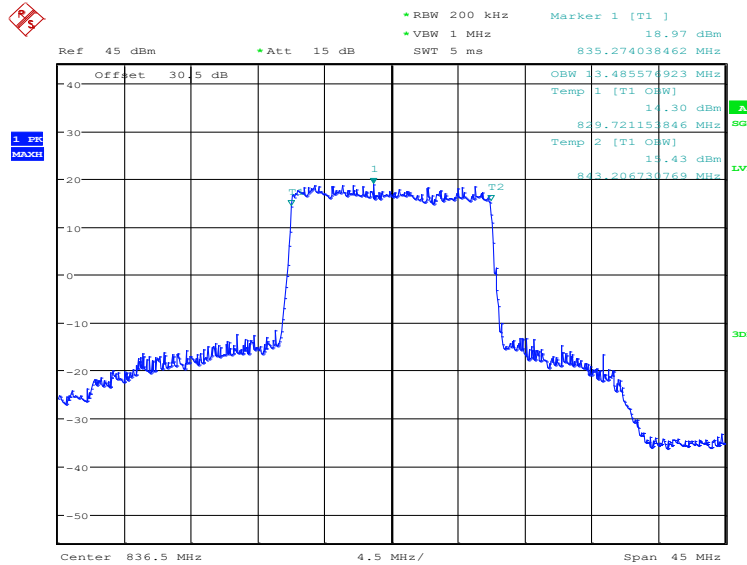
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:50:13

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (99% BW)

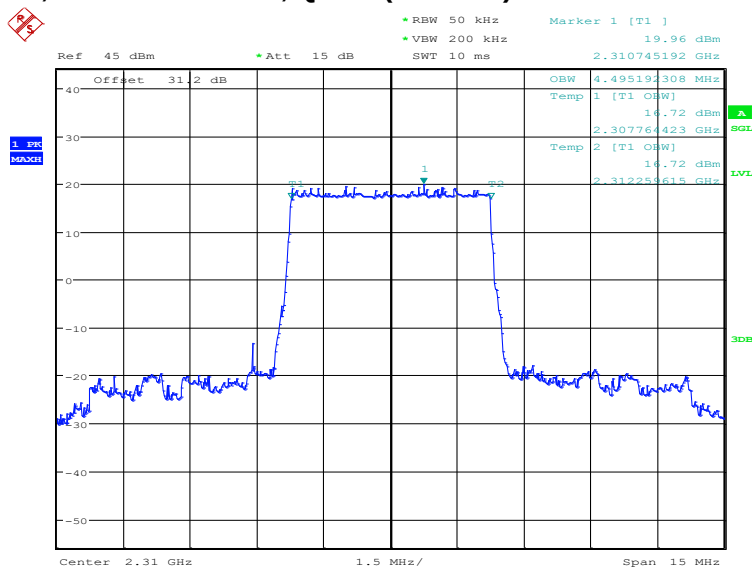


Date: 9.OCT.2024 10:50:53

LTE band 30, 5MHz (99%)

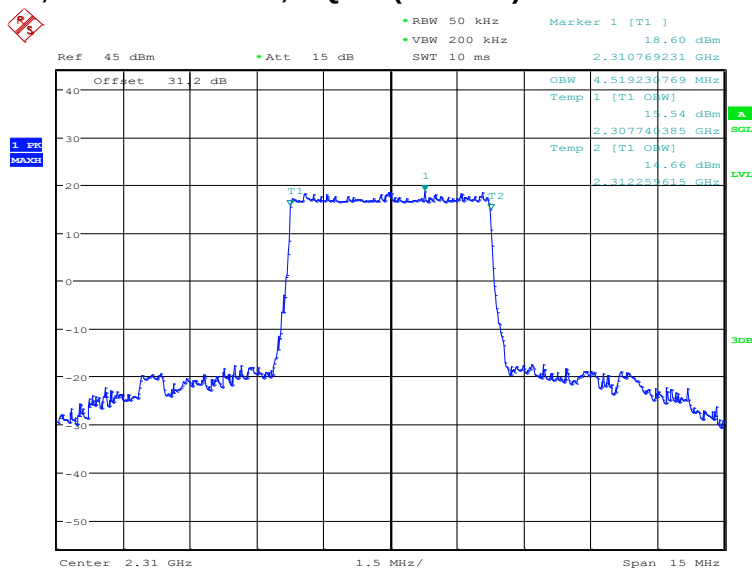
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	4495.19	4519.23

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



Date: 9.OCT.2024 15:39:18

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

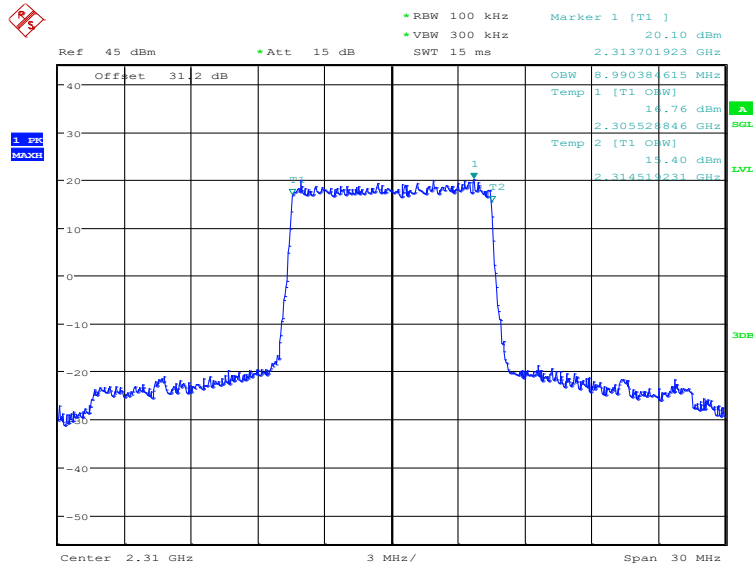


Date: 9.OCT.2024 15:39:59

LTE band 30, 10MHz (99%)

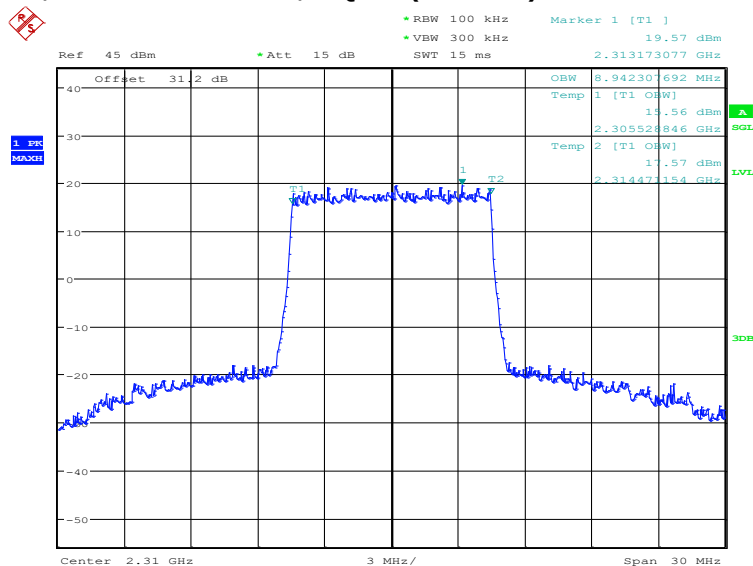
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 9.OCT.2024 15:40:41

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

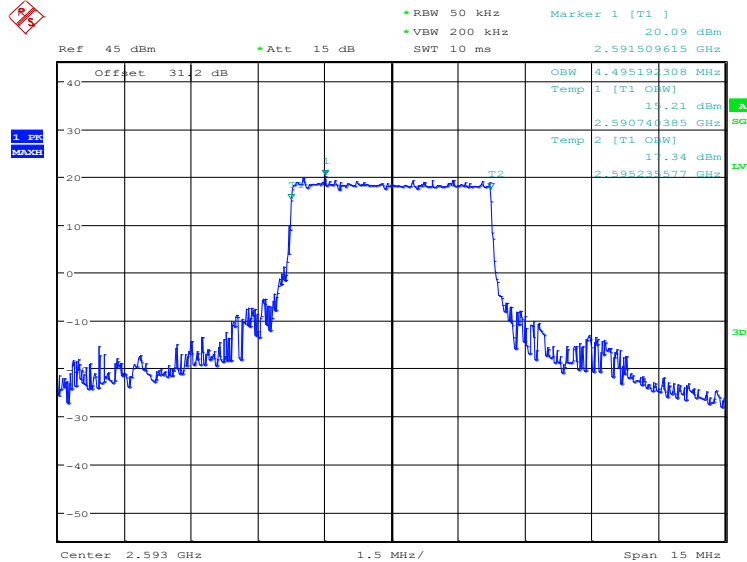


Date: 9.OCT.2024 15:41:21

LTE band 41, 5MHz (99%)

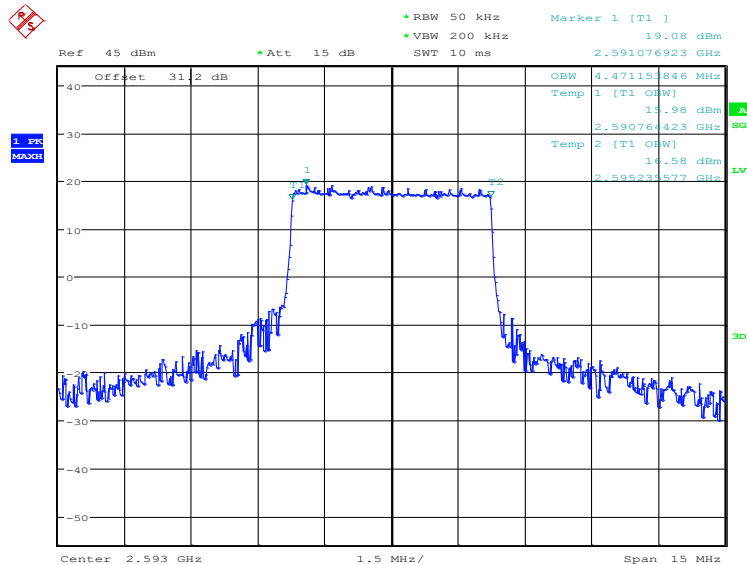
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 9.OCT.2024 14:20:41

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

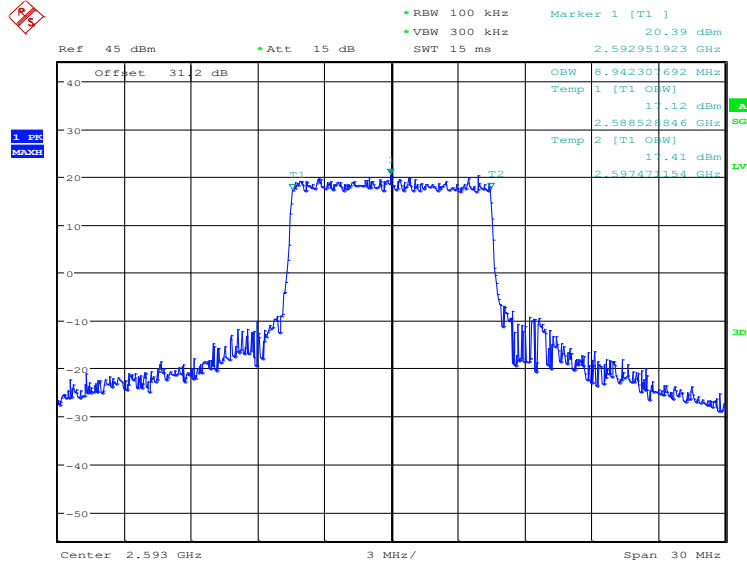


Date: 9.OCT.2024 14:21:21

LTE band 41, 10MHz (99%)

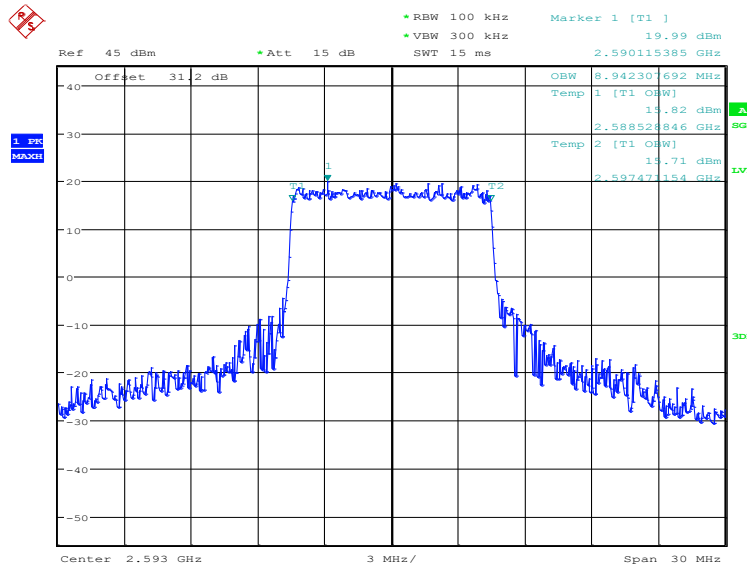
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.OCT.2024 14:22:03

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

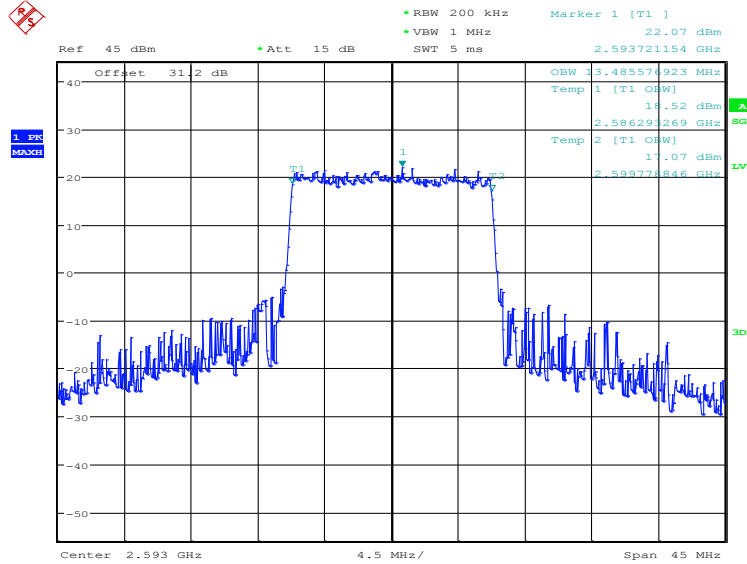


Date: 9.OCT.2024 14:22:43

LTE band 41, 15MHz (99%)

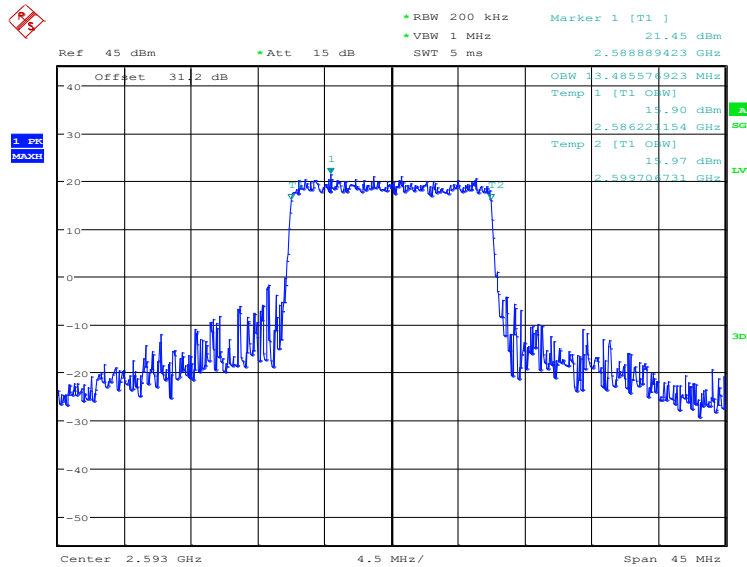
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 9.OCT.2024 14:23:25

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

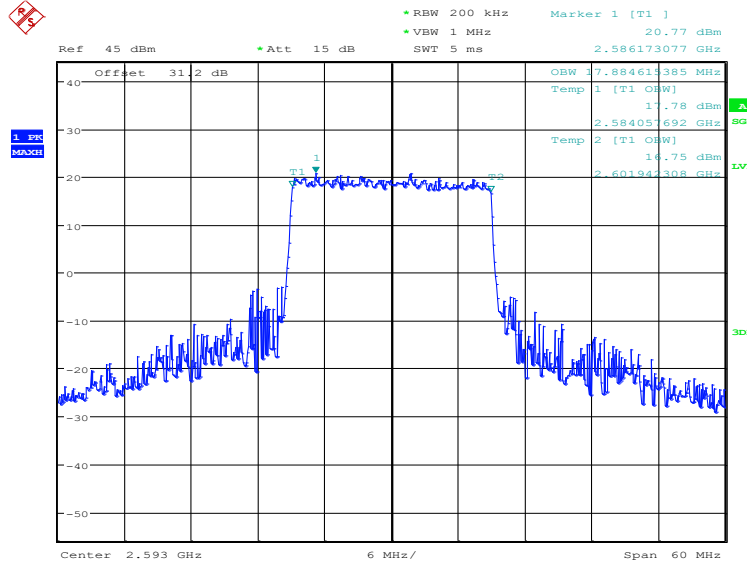


Date: 9.OCT.2024 14:24:05

LTE band 41, 20MHz (99%)

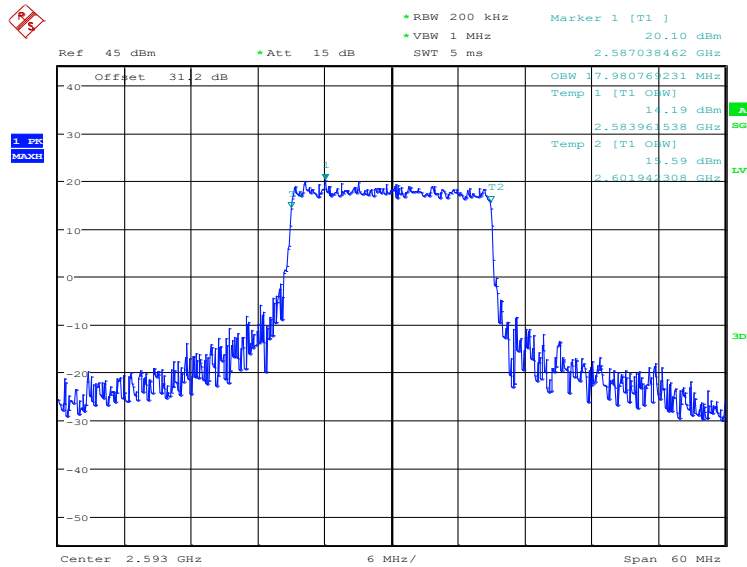
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17884.62	17980.77

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



Date: 9.OCT.2024 14:24:47

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

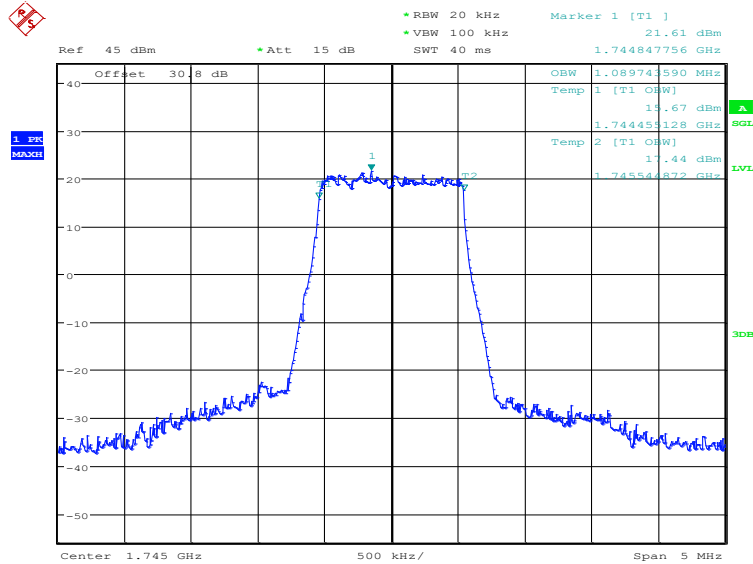


Date: 9.OCT.2024 14:25:27

LTE band 66, 1.4MHz (99%)

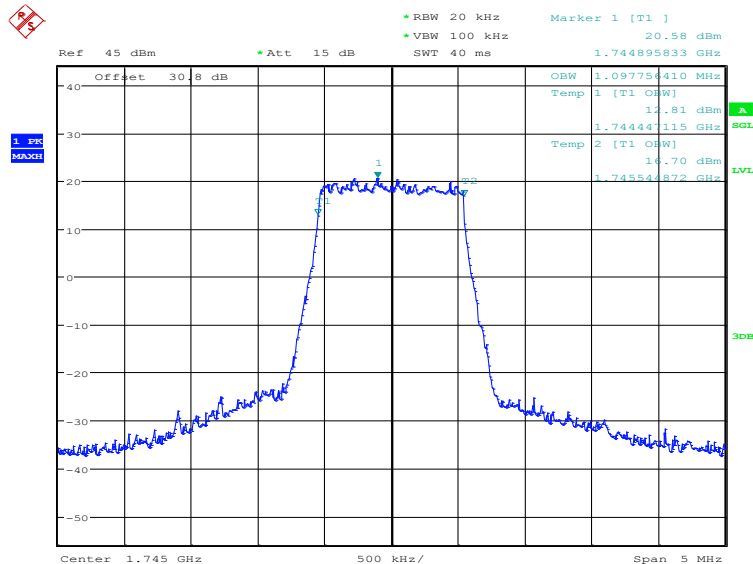
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 9.OCT.2024 09:16:54

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

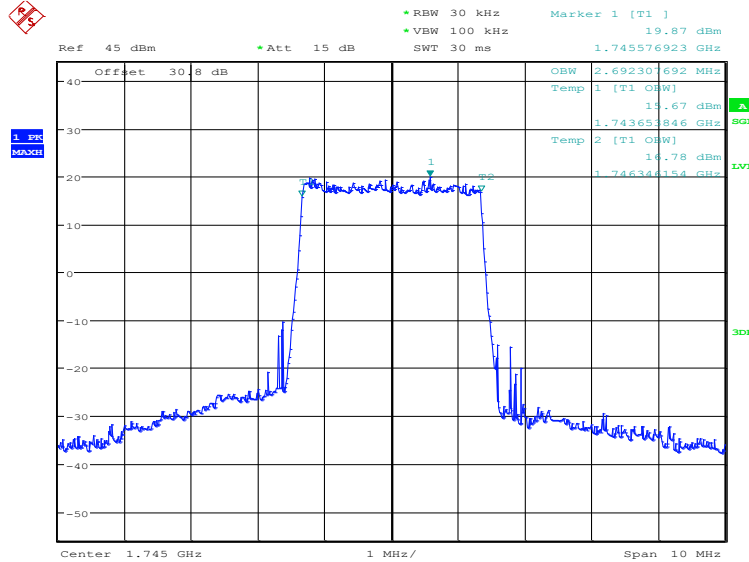


Date: 9.OCT.2024 09:17:34

LTE band 66, 3MHz (99%)

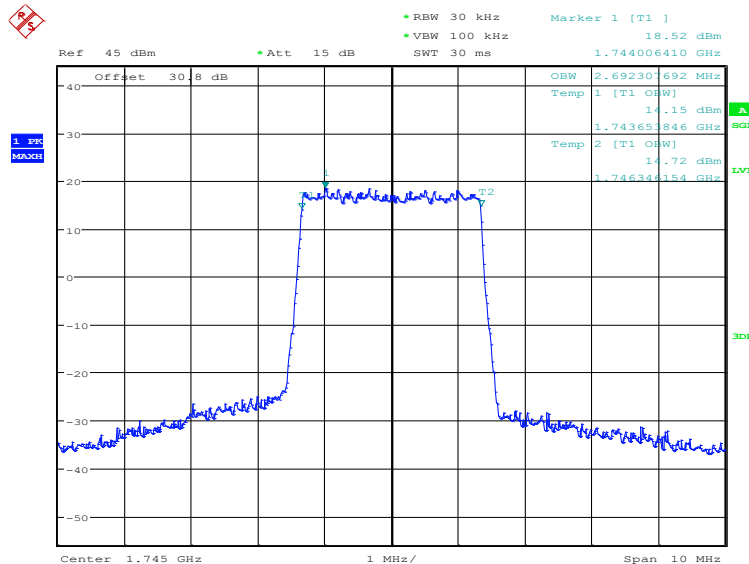
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 9.OCT.2024 09:18:16

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

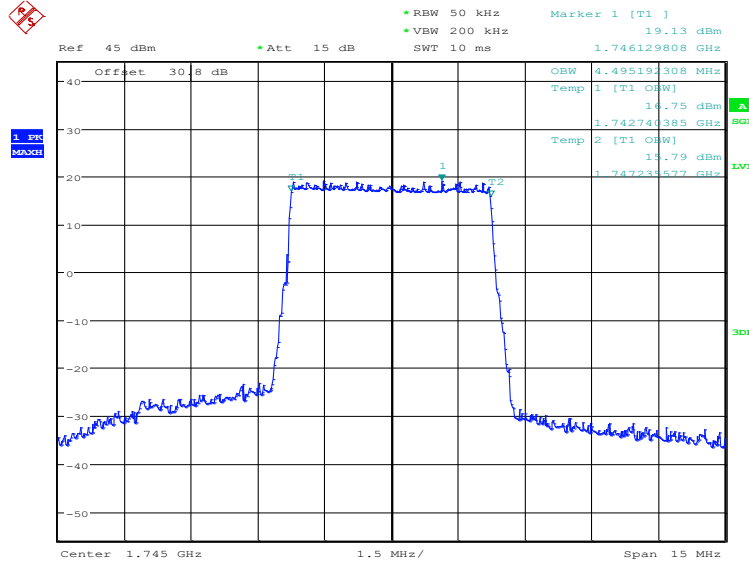


Date: 9.OCT.2024 09:18:56

LTE band 66, 5MHz (99%)

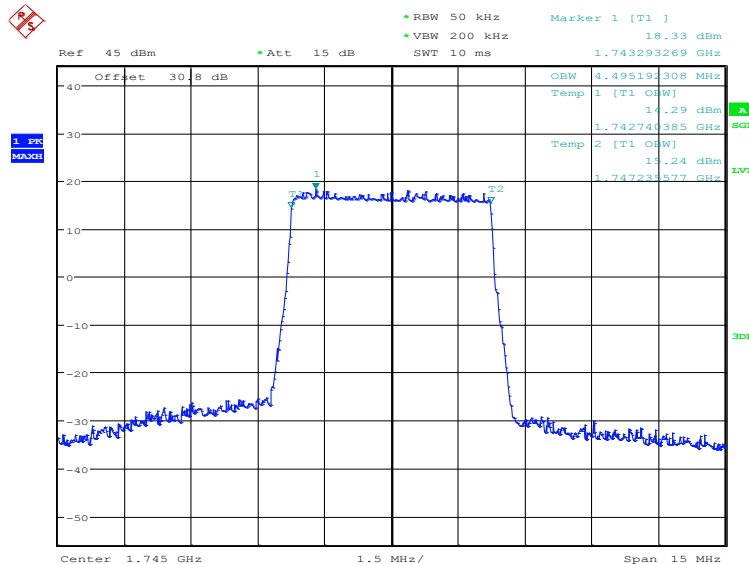
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 9.OCT.2024 09:19:39

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

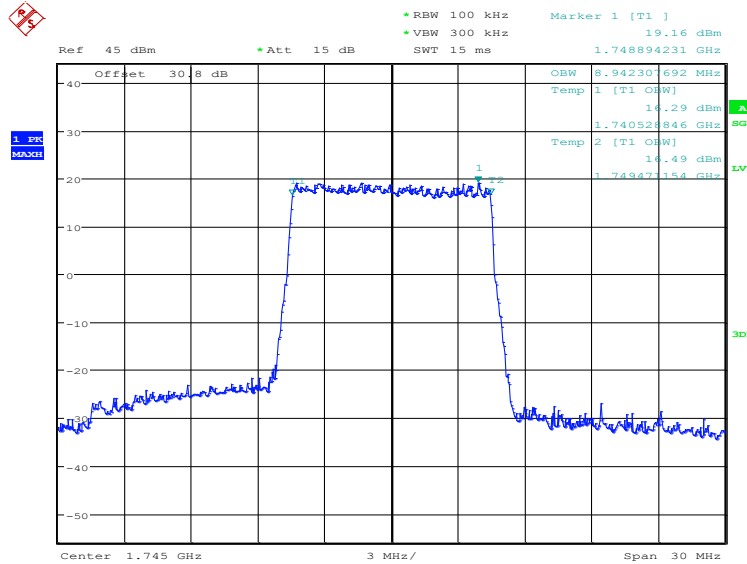


Date: 9.OCT.2024 09:20:19

LTE band 66, 10MHz (99%)

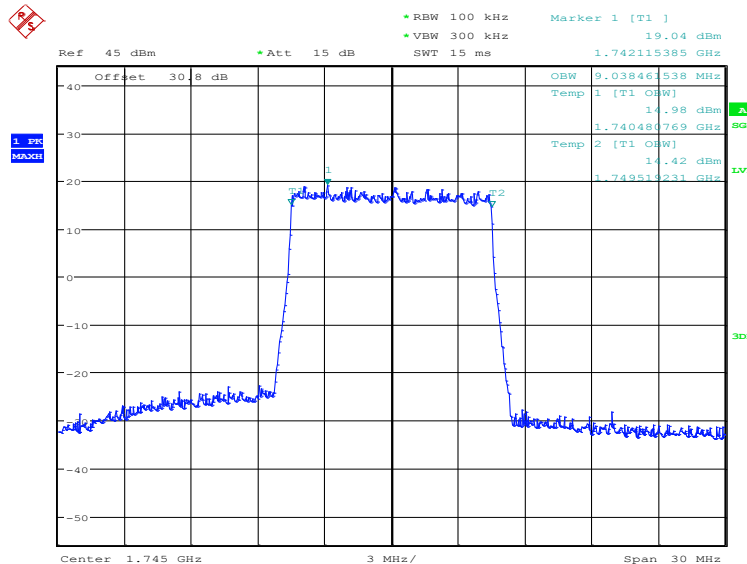
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8942.31	9038.46

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



Date: 9.OCT.2024 09:21:01

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

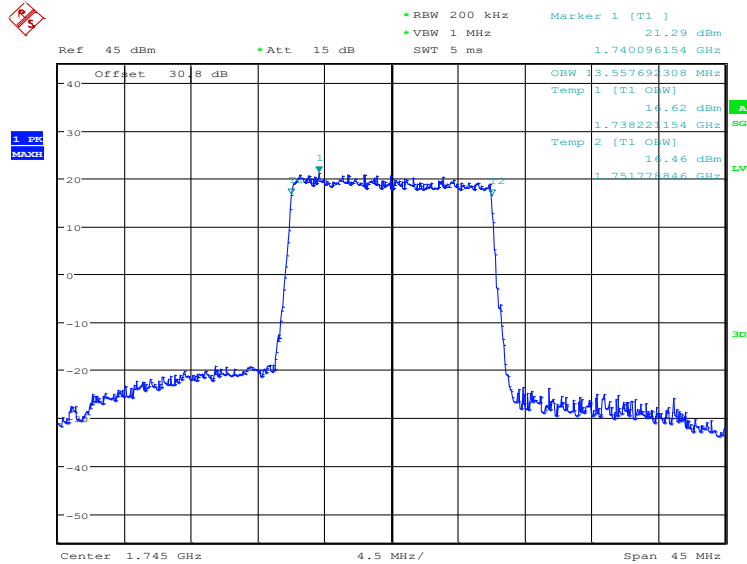


Date: 9.OCT.2024 09:21:41

LTE band 66, 15MHz (99%)

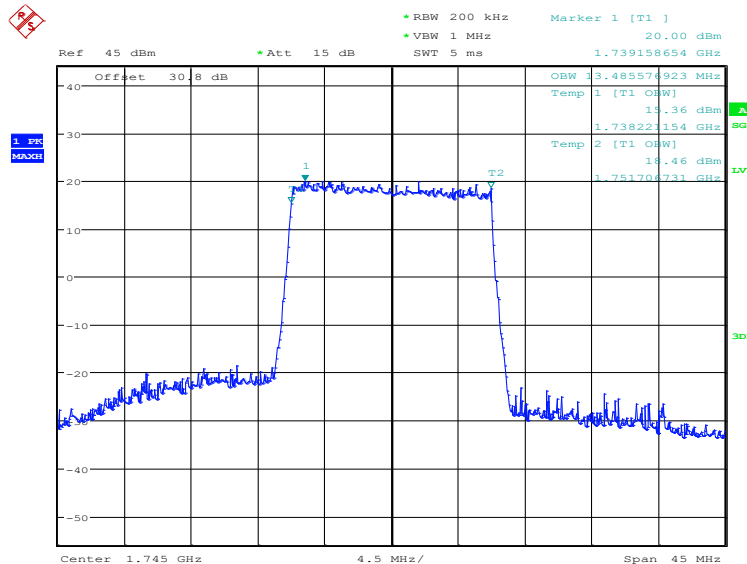
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13557.69	13485.58

LTE band 66, 15MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 09:22:23

LTE band 66, 15MHz Bandwidth, 16QAM (99% BW)

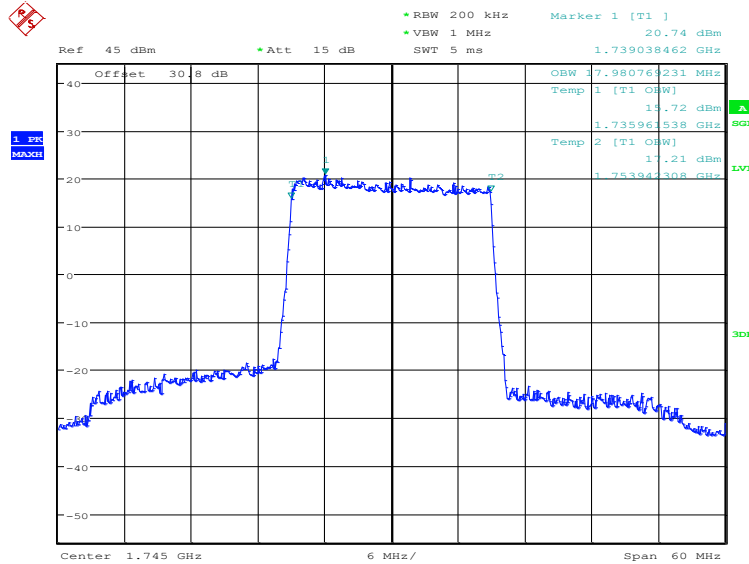


Date: 9.OCT.2024 09:23:03

LTE band 66, 20MHz (99%)

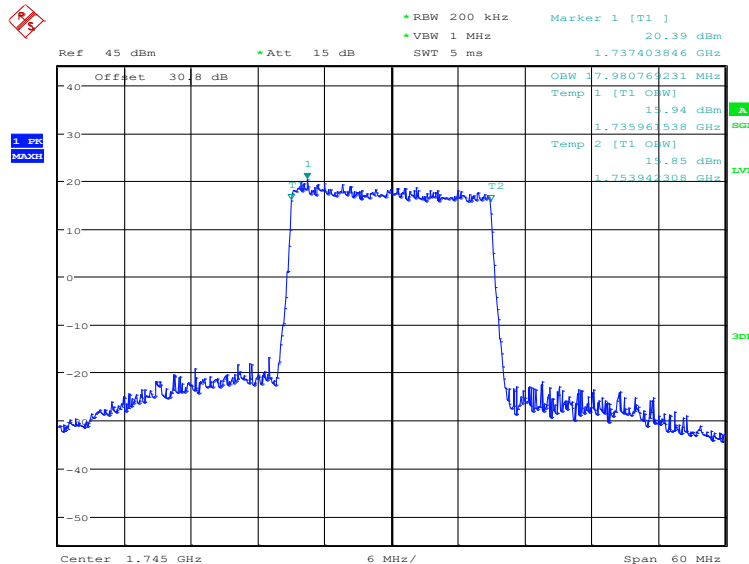
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 9.OCT.2024 09:23:45

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



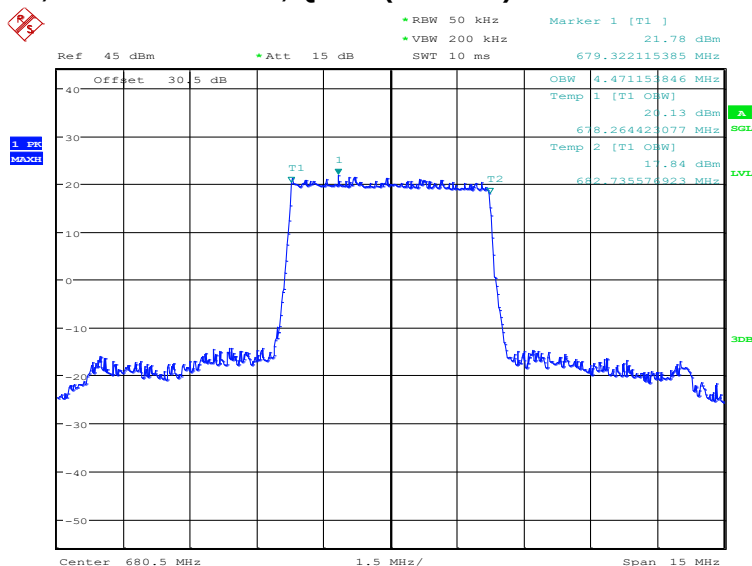
Date: 9.OCT.2024 09:24:25



LTE band 71, 5MHz (99%)

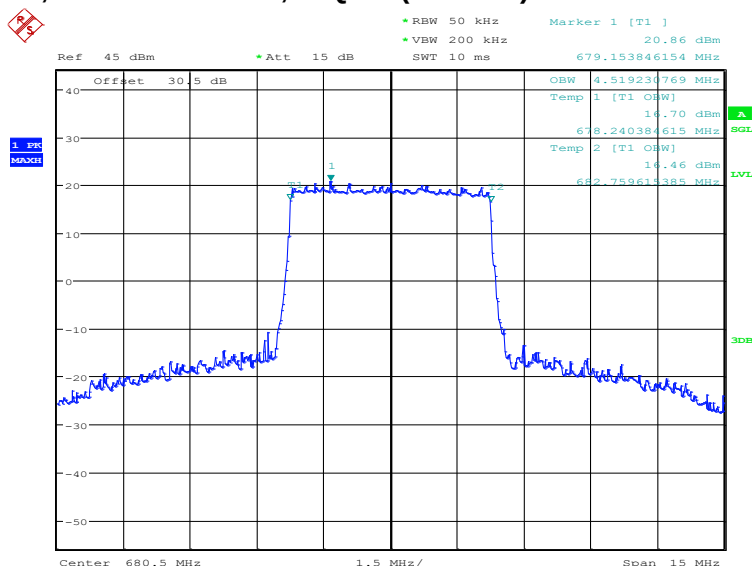
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4471.15	4519.23

LTE band 71, 5MHz Bandwidth, QPSK (99% BW)



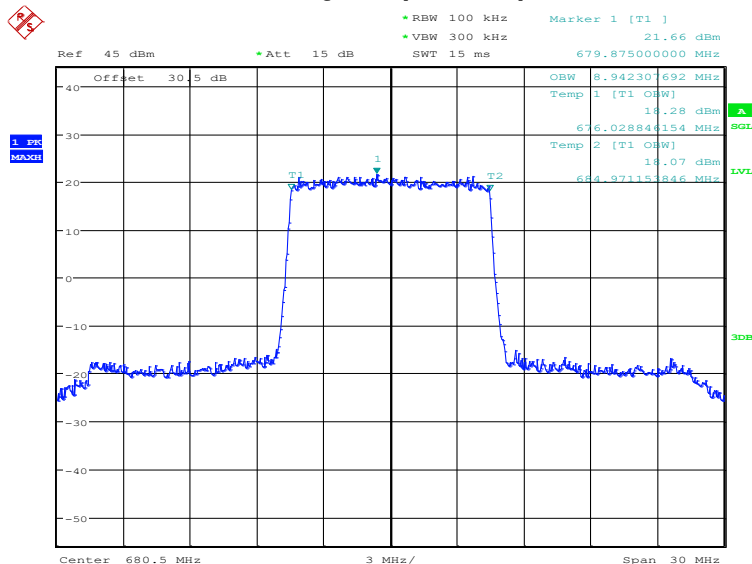
Date: 9.OCT.2024 10:27:05

LTE band 71, 5MHz Bandwidth, 16QAM (99% BW)

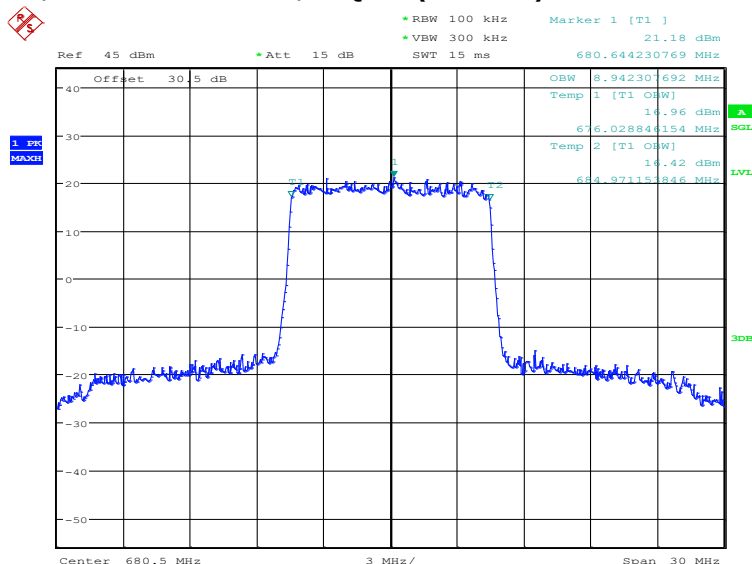


Date: 9.OCT.2024 10:27:45

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8942.31	8942.31



Date: 9.OCT.2024 10:28:27

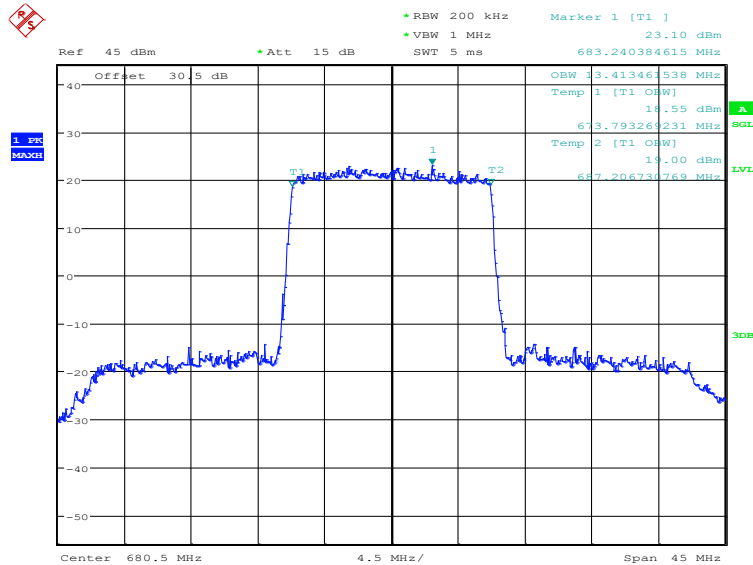


Date: 9.OCT.2024 10:29:07

LTE band 71, 15MHz (99%)

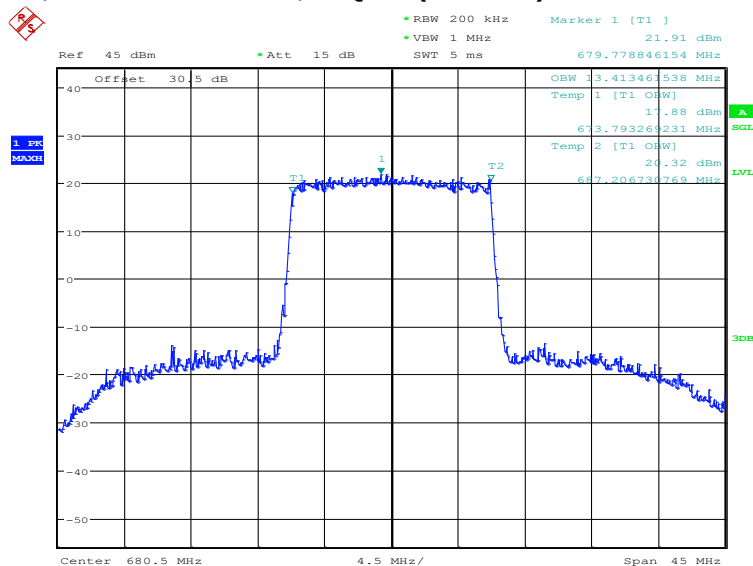
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13413.46	13413.46

LTE band 71, 15MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:29:49

LTE band 71, 15MHz Bandwidth, 16QAM (99% BW)

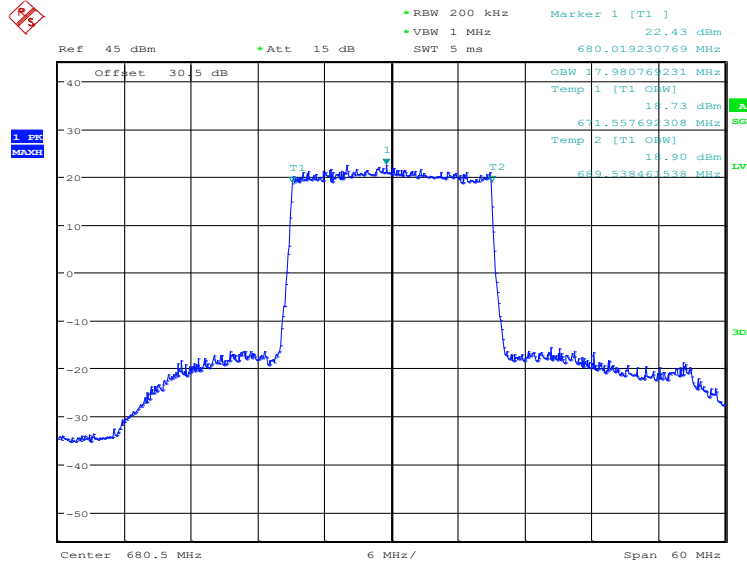


Date: 9.OCT.2024 10:30:29

LTE band 71, 20MHz (99%)

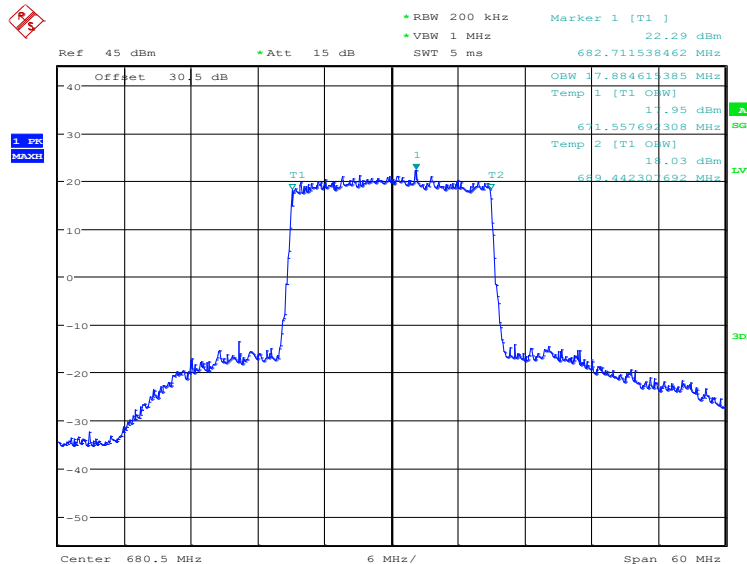
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17980.77	17884.62

LTE band 71, 20MHz Bandwidth, QPSK (99% BW)



Date: 9.OCT.2024 10:31:11

LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)



Date: 9.OCT.2024 10:31:51

Note: Expanded measurement uncertainty is $U = 3428 \text{ Hz}$, $k = 2$.

A.5 Emission Bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

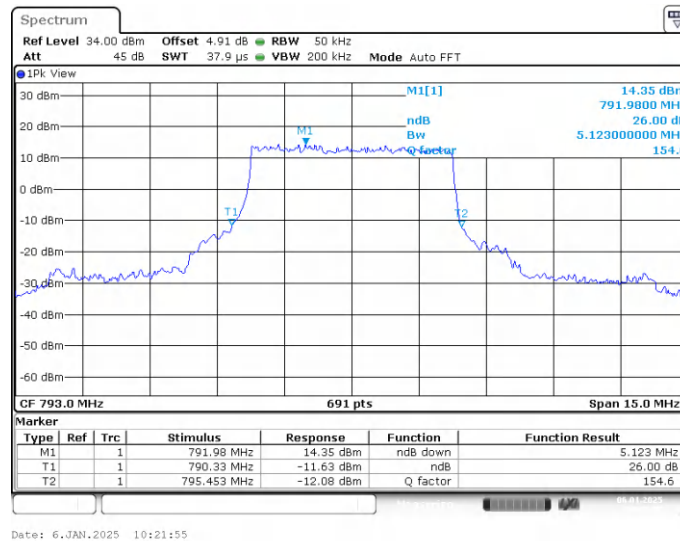
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

Measurement Results from UT14a:

LTE band 14,5MHz(-26dBc)

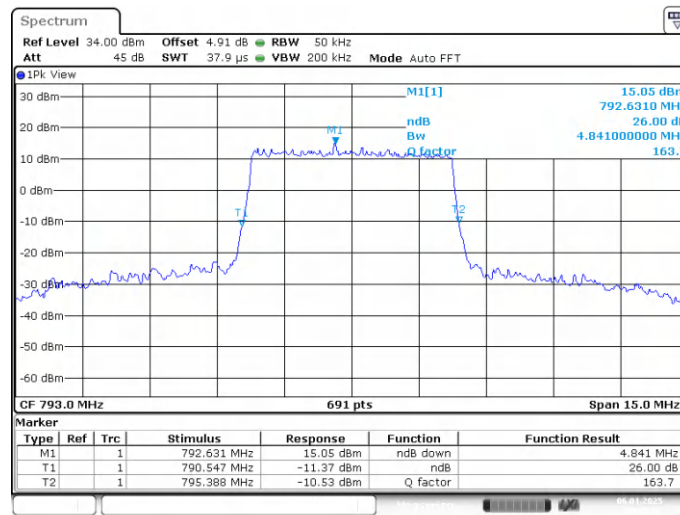
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
793	5.123	4.841

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



Date: 6.JAN.2025 10:21:55

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

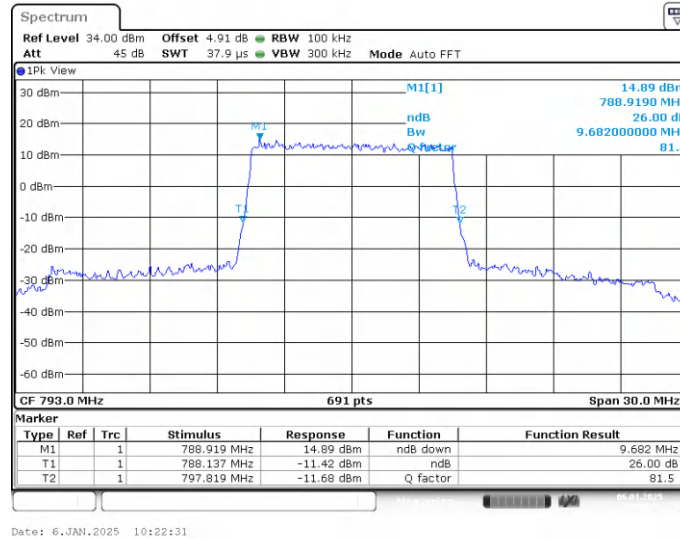


Date: 6.JAN.2025 10:22:11

LTE band 14,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
793	9.682	9.595

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



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

