



LTE TEST REPORT

No.24T04Z101721-013

for

HMD Global Oy

Mobile Phone

Model Name: TA-1658

FCC ID: 2AJOTTA-1658

with

Hardware Version: V1.0

Software Version: 000T_0_362

Issued Date: 2024-09-12

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:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z101721-013	Rev.0	1 st edition	2024-09-05
24T04Z101721-013	Rev.1	Changed the max EIRP for LTE Band 25 to 22.10dBm	2024-09-12

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°C

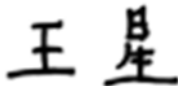
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2024-07-29

Testing End Date: 2024-09-03

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: HMD Global Oy
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Contact: Reza Serafat
Email: reza.serafat@hmdglobal.com
Telephone: +491735287964

2.2. Manufacturer Information

Company Name: HMD Global Oy
Address /Post: Bertel Jungin aukio 9, 02600 Espoo, Finland
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Telephone: +491735287964

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

3.1. About EUT

Description	Mobile Phone
Model Name	TA-1658
FCC ID	2AJOTTA-1658
Antenna	Embedded
Output power	25.05dBm maximum EIRP measured for LTE Band 41
Extreme Voltage	3.6VDC to 4.45VDC (nominal: 3.87VDC)
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
UT16a	353401640000488/	V1.0	000T_0_362	2024-07-22
	353401640000496			
UT21a	353401640000769/	V1.0	000T_0_362	2024-07-31
	353401640000777			

UT21a was used for emission limit test and UT16a 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
AE2	Battery

AE1

Model	HBA5033AA
Manufacturer	Huizhou Highpower Technology Co., Ltd.
Capacitance	4900mAh

AE2

Model	HBA5033AA
Manufacturer	HuiZhou GanFeng LiEnergy Battery Technology Co., Ltd.
Capacitance	4900mAh

*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
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

5. Summary of Test Result

LTE Band 7

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

LTE Band 12 (17)

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

LTE Band 25 (2)

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

LTE Band 26(814MHz~824MHz)

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

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

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

LTE Band 41

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

LTE Band 66 (4)

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

LTE Band 71

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

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

LTE Band 41 is tested by power class 2.



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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.

6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-12-28	1 year
Spectrum Analyzer	FSU	200030	R&S	2025-05-08	1 year
Climate chamber	SH-241	92004642	ESPEC	2024-10-15	1 year
Spectrum Analyzer	FSV30	101576	R&S	2025-05-08	1 year
Spectrum Analyzer	FSV30	101525	R&S	2025-01-18	1 year
Antenna	VULB9163	9163-485	Schwarzbeck	2025-05-19	1 year
Antenna	9117	167	Schwarzbeck	2024-10-15	1 year
Antenna	LB-7180-NF	J203001300005	A-INFO	2025-05-16	1 year
Antenna	3115	00146404	ETS-Lindgren	2025-05-16	1 year
EMI Antenna	LB-180400-25-C-KF	2110084000006	A-INFO	2025-05-15	1 year
EMI Antenna	3116	2663	ETS-Lindgren	2025-01-05	1 year
Signal generator	N5183A	MY49060052	Agilent	2024-09-14	1 year
Radio Communication Analyzer	CMW500	143008	R&S	2025-01-18	1 year

Test Item	Test Software	Software Vendor
Emission Limit	ELEKTRA 5.00.2	R&S

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

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.30	22.71	21.60	18.34
		2535.0	23.28	22.48	21.38	18.21
		2502.5	23.24	22.56	21.53	18.24
	1 RB low	2567.5	23.33	22.68	21.46	18.38
		2535.0	23.26	22.54	21.52	18.42
		2502.5	23.24	22.48	21.39	18.48
	50% RB mid	2567.5	22.45	21.56	20.43	18.21
		2535.0	22.31	21.30	20.42	18.23
		2502.5	22.30	21.29	20.44	18.39
	100% RB	2567.5	22.41	21.46	20.48	18.27
		2535.0	22.29	21.30	20.42	18.20
		2502.5	22.29	21.28	20.41	18.45
10MHz	1 RB high	2565.0	23.52	22.79	21.51	18.24
		2535.0	23.27	22.53	21.29	18.46
		2505.0	23.21	22.31	21.52	18.36
	1 RB low	2565.0	23.45	22.52	21.59	18.48
		2535.0	23.33	22.60	21.55	18.30
		2505.0	23.22	22.47	21.47	18.31
	50% RB mid	2565.0	22.43	21.35	20.43	18.20
		2535.0	22.38	21.39	20.50	18.41
		2505.0	22.36	21.39	20.50	18.50
	100% RB	2565.0	22.43	21.45	20.44	18.22

		2535.0	22.39	21.32	20.43	18.39
		2505.0	22.34	21.29	20.41	18.31
15MHz	1 RB high	2562.5	23.11	22.55	21.24	18.39
		2535.0	23.15	22.38	21.36	18.31
		2507.5	23.18	22.25	21.27	18.20
	1 RB low	2562.5	23.17	22.50	21.23	18.44
		2535.0	23.10	22.46	21.33	18.31
		2507.5	23.19	22.49	21.33	18.44
	50% RB mid	2562.5	22.31	21.27	20.33	18.24
		2535.0	22.22	21.20	20.26	18.47
		2507.5	22.17	21.18	20.29	18.42
	100% RB	2562.5	22.33	21.32	20.34	18.47
		2535.0	22.13	21.21	20.23	18.30
		2507.5	22.15	21.16	20.15	18.50
20MHz	1 RB high	2560.0	23.21	22.59	21.46	18.39
		2535.0	23.10	22.35	21.20	18.24
		2510.0	23.03	22.56	21.32	18.41
	1 RB low	2560.0	23.25	22.48	21.42	18.26
		2535.0	23.07	22.50	21.26	18.25
		2510.0	22.95	22.15	21.26	18.47
	50% RB mid	2560.0	22.21	21.14	20.33	18.40
		2535.0	22.24	21.24	20.29	18.30
		2510.0	22.14	21.22	20.21	18.41
	100% RB	2560.0	22.31	21.16	20.33	18.33
		2535.0	22.20	21.21	20.28	18.25
		2510.0	22.18	21.15	20.28	18.35

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.31	22.58	21.44	18.40
		707.5	23.34	22.65	21.64	18.54
		699.7	23.39	22.74	21.66	18.46
	1 RB low	715.3	23.33	22.67	21.58	18.39
		707.5	23.30	22.52	21.55	18.52
		699.7	23.36	22.74	21.79	18.58
	50% RB mid	715.3	23.32	22.41	21.50	18.43
		707.5	23.34	22.52	21.65	18.55
		699.7	23.36	22.58	21.64	18.35
	100% RB	715.3	22.35	21.46	20.51	18.48
		707.5	22.32	21.37	20.35	18.48
		699.7	22.39	21.44	20.59	18.58
3MHz	1 RB high	714.5	23.33	22.60	21.43	18.56
		707.5	23.38	22.52	21.71	18.45
		700.5	23.36	22.80	21.64	18.49
	1 RB low	714.5	23.34	22.66	21.71	18.53
		707.5	23.36	22.78	21.48	18.44
		700.5	23.36	22.69	21.58	18.35
	50% RB mid	714.5	22.35	21.34	20.45	18.49
		707.5	22.49	21.55	20.54	18.37
		700.5	22.51	21.58	20.55	18.37
	100% RB	714.5	22.38	21.31	20.35	18.35
		707.5	22.37	21.38	20.54	18.54
		700.5	22.49	21.46	20.60	18.60
5MHz	1 RB high	713.5	23.41	22.57	21.61	18.47
		707.5	23.33	22.87	21.37	18.58
		701.5	23.31	22.73	21.49	18.38
	1 RB low	713.5	23.37	22.69	21.69	18.49
		707.5	23.37	22.66	21.63	18.38
		701.5	23.30	22.76	21.70	18.58
	50% RB mid	713.5	23.41	21.37	20.53	18.50
		707.5	22.38	21.37	20.48	18.43
		701.5	22.43	21.57	20.60	18.38
	100% RB	713.5	22.41	21.39	20.42	18.38
		707.5	22.33	21.36	20.49	18.43
		701.5	22.42	21.54	20.55	18.45
10MHz	1 RB high	711.0	23.21	22.37	21.83	18.35
		707.5	23.20	22.50	21.37	18.45
		704.0	23.31	22.42	21.50	18.60
	1 RB low	711.0	23.46	22.71	22.39	18.59



		707.5	23.32	22.65	21.56	18.51
		704.0	23.48	22.53	21.64	18.47
	50% RB mid	711.0	22.41	21.40	20.70	18.53
		707.5	22.31	21.28	20.40	18.35
		704.0	22.41	21.41	20.47	18.55
	100% RB	711.0	22.30	21.43	20.39	18.37
		707.5	22.28	21.24	20.37	18.56
		704.0	22.42	21.44	20.32	18.42

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.60	22.69	21.61	18.96
		1882.5	23.34	22.67	21.47	18.54
		1850.7	23.34	22.54	21.68	18.59
	1 RB low	1914.3	23.36	22.72	21.47	17.86
		1882.5	23.36	22.58	21.48	17.82
		1850.7	23.30	22.81	21.54	18.52
	50% RB mid	1914.3	23.36	22.54	21.54	18.94
		1882.5	23.47	22.43	21.57	19.12
		1850.7	23.38	22.61	21.54	19.04
	100% RB	1914.3	22.46	21.58	20.51	18.80
		1882.5	22.41	21.46	20.60	19.04
		1850.7	22.42	21.44	20.56	18.74
3MHz	1 RB high	1913.5	23.32	22.94	21.57	18.52
		1882.5	23.41	22.67	21.62	17.98
		1851.5	23.37	22.65	21.58	18.16
	1 RB low	1913.5	23.38	22.68	21.62	18.36
		1882.5	23.39	22.75	21.55	18.77
		1851.5	23.28	22.76	21.58	19.18
	50% RB mid	1913.5	22.47	21.64	20.60	18.81
		1882.5	22.45	21.53	20.62	18.35
		1851.5	22.47	21.51	20.59	19.06
	100% RB	1913.5	22.49	21.46	20.50	19.24
		1882.5	22.47	21.41	20.46	17.81
		1851.5	22.45	21.45	20.53	17.87
5MHz	1 RB high	1912.5	23.38	22.93	21.78	18.15
		1882.5	23.37	22.75	21.73	17.96
		1852.5	23.37	22.69	21.61	17.98
	1 RB low	1912.5	23.35	22.83	21.59	18.05
		1882.5	23.32	23.01	21.58	18.50
		1852.5	23.28	22.66	21.62	18.68
	50% RB mid	1912.5	22.52	21.57	20.63	19.21
		1882.5	22.46	21.46	20.55	19.12
		1852.5	22.46	21.47	20.62	18.86
	100% RB	1912.5	22.54	21.52	20.58	17.91
		1882.5	22.46	21.46	20.57	18.86
		1852.5	22.44	21.46	20.57	18.35
10MHz	1 RB high	1910.0	23.41	22.53	21.75	18.47
		1882.5	23.34	22.65	21.69	18.07
		1855.0	23.34	22.80	21.59	19.14
	1 RB low	1910.0	23.41	22.79	21.66	18.37

		1882.5	23.41	22.79	21.58	18.50
		1855.0	23.32	22.64	21.68	19.14
	50% RB mid	1910.0	22.50	21.59	20.64	18.14
		1882.5	22.43	21.52	20.55	18.56
		1855.0	22.42	21.55	20.56	18.60
	100% RB	1910.0	22.50	21.53	20.60	18.06
		1882.5	22.32	21.39	20.49	18.49
1855.0		22.39	21.44	20.57	19.28	
15MHz	1 RB high	1907.5	23.25	22.46	21.75	18.46
		1882.5	23.27	22.41	21.46	19.04
		1857.5	23.27	22.42	21.43	18.42
	1 RB low	1907.5	23.19	22.54	21.31	18.95
		1882.5	23.16	22.61	21.56	18.28
		1857.5	23.24	22.47	21.41	18.04
	50% RB mid	1907.5	22.26	21.23	20.38	17.98
		1882.5	22.29	21.28	20.39	19.02
		1857.5	22.28	21.32	20.40	19.30
	100% RB	1907.5	22.22	21.28	20.42	19.27
		1882.5	22.16	21.29	20.30	19.24
		1857.5	22.27	21.29	20.39	18.67
20MHz	1 RB high	1905.0	23.15	22.53	21.42	18.82
		1882.5	23.26	22.35	21.30	18.44
		1860.0	23.21	22.29	21.30	18.60
	1 RB low	1905.0	23.34	22.58	21.48	17.84
		1882.5	23.35	22.33	21.34	18.41
		1860.0	23.22	22.21	21.42	18.54
	50% RB mid	1905.0	22.26	21.30	20.30	18.98
		1882.5	22.19	21.25	20.19	18.01
		1860.0	22.27	21.35	20.30	19.13
	100% RB	1905.0	22.31	21.29	20.27	18.42
		1882.5	22.30	21.28	20.36	18.50
		1860.0	22.36	21.35	20.30	19.22

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	22.92	22.09	21.04	18.04
		819.0	22.94	22.08	21.07	18.03
		814.7	22.94	22.04	21.03	18.11
	1 RB low	823.3	22.91	22.04	20.94	18.08
		819.0	22.87	22.00	20.67	18.02
		814.7	22.91	21.96	20.65	17.99
	50% RB mid	823.3	22.91	22.05	21.02	18.03
		819.0	22.93	22.07	21.12	18.01
		814.7	22.91	22.05	21.07	17.98
	100% RB	823.3	21.93	21.03	19.89	17.94
		819.0	21.95	21.06	20.03	17.97
		814.7	21.91	21.03	19.98	18.00
3MHz	1 RB high	822.5	22.88	21.96	21.02	17.97
		819.0	22.87	21.98	21.19	18.08
		815.5	22.91	21.98	20.93	18.12
	1 RB low	822.5	22.89	21.95	20.88	17.98
		819.0	22.88	21.99	20.97	17.96
		815.5	22.91	22.05	21.00	18.08
	50% RB mid	822.5	21.93	21.00	19.95	18.02
		819.0	21.92	21.01	19.97	17.97
		815.5	21.90	20.97	19.98	17.99
	100% RB	822.5	21.93	21.00	19.93	17.98
		819.0	21.93	20.93	20.01	18.02
		815.5	21.96	20.97	19.97	17.95
5MHz	1 RB high	821.5	22.94	22.14	21.02	18.18
		819.0	22.93	22.11	21.07	18.15
		816.5	22.94	22.14	21.02	18.11
	1 RB low	821.5	22.92	22.06	21.18	17.98
		819.0	22.93	22.08	21.05	17.88
		816.5	22.90	22.11	21.26	18.06
	50% RB mid	821.5	21.97	21.04	20.05	18.03
		819.0	21.95	20.98	20.02	17.99
		816.5	21.96	21.05	20.00	18.03
	100% RB	821.5	21.96	21.01	19.99	18.01
		819.0	21.96	20.97	19.97	17.98
		816.5	21.97	20.98	19.97	17.97
10MHz	1 RB high	819.0	22.96	22.09	21.16	18.12
	1 RB low	819.0	22.95	22.16	20.77	18.04
	50% RB mid	819.0	22.02	21.08	19.97	18.06
	100% RB	819.0	22.00	21.05	20.02	18.03

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.86	22.01	21.01	18.02
		836.5	22.97	22.08	21.36	18.08
		824.7	22.99	22.18	21.09	17.95
	1 RB low	848.3	22.87	21.96	20.92	18.02
		836.5	22.96	22.02	20.74	17.97
		824.7	22.98	22.11	21.00	17.97
	50% RB mid	848.3	22.85	21.98	20.96	17.90
		836.5	22.93	22.06	21.02	17.93
		824.7	22.96	22.09	21.02	18.09
	100% RB	848.3	21.83	20.92	19.88	17.87
		836.5	21.92	20.96	19.94	18.02
		824.7	21.94	21.03	19.98	17.97
3MHz	1 RB high	847.5	22.83	21.92	21.03	17.96
		836.5	22.90	22.01	21.20	18.03
		825.5	22.91	22.02	20.97	18.12
	1 RB low	847.5	22.82	21.98	21.03	17.91
		836.5	22.89	22.07	20.90	17.95
		825.5	22.92	21.98	21.21	18.05
	50% RB mid	847.5	21.86	20.94	19.90	17.93
		836.5	21.92	21.02	19.91	17.96
		825.5	21.93	20.98	19.93	17.97
	100% RB	847.5	21.82	20.89	19.85	17.88
		836.5	21.94	20.97	19.97	17.96
		825.5	21.93	20.94	20.00	18.01
5MHz	1 RB high	846.5	22.87	22.06	21.00	18.08
		836.5	22.91	22.16	21.04	18.09
		826.5	22.92	22.18	20.94	18.16
	1 RB low	846.5	22.90	22.01	21.15	18.08
		836.5	22.95	22.08	21.24	18.10
		826.5	22.90	22.14	21.22	18.16
	50% RB mid	846.5	21.88	20.90	19.93	17.99
		836.5	21.93	20.95	19.98	17.98
		826.5	21.97	20.98	20.09	18.06
	100% RB	846.5	21.87	20.90	19.93	17.94
		836.5	21.94	20.98	19.96	17.96
		826.5	21.93	21.01	19.99	18.01
10MHz	1 RB high	844.0	22.92	22.05	21.16	18.13
		836.5	22.97	22.07	21.17	18.14
		829.0	22.90	22.12	21.15	18.17
	1 RB low	844.0	22.95	22.13	20.84	18.10

		836.5	22.99	22.14	21.13	18.05
		829.0	22.94	22.14	21.17	18.15
	50% RB mid	844.0	21.96	21.04	19.96	18.01
		836.5	21.95	20.97	20.00	18.01
		829.0	22.03	21.10	20.11	18.10
	100% RB	844.0	21.93	20.99	19.99	18.02
		836.5	21.98	20.99	20.01	18.03
		829.0	22.00	21.00	20.04	18.05
	15MHz	1 RB high	841.5	22.59	21.70	20.83
836.5			22.61	21.77	20.95	17.97
831.5			22.63	21.82	20.93	18.05
1 RB low		841.5	22.74	21.97	20.75	17.84
		836.5	22.75	21.88	20.93	17.92
		831.5	22.69	21.89	20.79	17.88
50% RB mid		841.5	21.81	20.76	19.84	17.80
		836.5	21.82	20.79	19.85	17.81
		831.5	21.86	20.83	19.88	17.81
100% RB		841.5	21.86	20.84	19.93	17.87
		836.5	21.85	20.86	19.87	17.89
		831.5	21.78	20.81	19.80	17.86

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.12	24.56	23.36	20.24
		2593.0	25.66	24.99	23.90	20.46
		2498.5	25.26	24.72	23.60	20.46
	1 RB low	2687.5	25.23	24.72	23.64	20.46
		2593.0	25.49	24.89	23.62	20.30
		2498.5	25.63	25.01	23.89	20.36
	50% RB mid	2687.5	24.34	23.41	22.41	20.55
		2593.0	24.73	23.81	22.85	20.39
		2498.5	24.63	23.62	22.71	20.20
	100% RB	2687.5	24.31	23.40	22.40	20.22
		2593.0	24.70	23.71	22.80	20.20
		2498.5	24.59	23.58	22.67	20.36
10MHz	1 RB high	2685.0	25.18	24.51	23.33	20.27
		2593.0	25.66	25.02	23.96	20.41
		2501.0	25.04	24.37	23.82	20.17
	1 RB low	2685.0	25.41	24.77	23.58	20.49
		2593.0	25.47	24.79	23.55	20.19
		2501.0	25.67	24.88	23.68	20.39
	50% RB mid	2685.0	24.45	23.40	22.57	20.43
		2593.0	24.79	23.73	22.73	20.39
		2501.0	24.37	23.48	22.27	20.19
	100% RB	2685.0	24.39	23.39	22.51	20.42
		2593.0	24.69	23.65	22.63	20.50
		2501.0	24.41	23.43	22.25	20.30
15MHz	1 RB high	2682.5	25.09	24.43	23.26	20.22
		2593.0	25.51	24.94	23.89	20.29
		2503.5	25.54	24.88	23.75	20.33
	1 RB low	2682.5	25.38	24.73	23.51	20.45
		2593.0	25.33	24.88	23.48	20.36
		2503.5	25.42	24.83	23.61	20.38
	50% RB mid	2682.5	24.35	23.41	22.50	20.34
		2593.0	24.58	23.63	22.66	20.33
		2503.5	24.10	23.13	22.20	20.47
	100% RB	2682.5	24.37	23.38	22.44	20.21
		2593.0	24.50	23.55	22.56	20.18
		2503.5	24.13	23.10	22.18	20.47
20MHz	1 RB high	2680.0	25.12	24.31	23.31	20.36
		2593.0	25.57	24.90	23.85	20.25
		2506.0	25.40	24.74	23.66	20.55
	1 RB low	2680.0	25.46	24.90	23.80	20.15



		2593.0	25.20	24.58	23.63	20.50
		2506.0	25.37	24.83	23.71	20.16
	50% RB mid	2680.0	24.33	23.37	22.45	20.47
		2593.0	24.53	23.54	22.65	20.27
		2506.0	24.98	24.01	23.10	20.25
	100% RB	2680.0	24.32	23.37	22.46	20.22
		2593.0	24.50	23.51	22.60	20.54
		2506.0	24.02	23.00	22.17	20.37

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.41	22.75	21.62	18.12
		1745.0	23.25	22.67	21.33	18.16
		1710.7	23.38	22.65	21.51	18.09
	1 RB low	1779.3	23.46	22.77	21.54	18.20
		1745.0	23.39	22.68	21.35	18.10
		1710.7	23.35	22.61	21.38	18.22
	50% RB mid	1779.3	23.46	22.55	21.47	18.29
		1745.0	23.41	22.46	21.33	18.23
		1710.7	23.46	22.49	21.48	18.18
	100% RB	1779.3	22.44	21.49	20.39	18.18
		1745.0	22.37	21.38	20.42	18.35
		1710.7	22.43	21.56	20.48	18.17
3MHz	1 RB high	1778.5	23.38	22.77	21.50	18.16
		1745.0	23.34	22.64	21.51	18.08
		1711.5	23.34	22.74	21.55	18.23
	1 RB low	1778.5	23.40	22.72	21.49	18.13
		1745.0	23.29	22.60	21.43	18.15
		1711.5	23.35	22.72	21.50	18.13
	50% RB mid	1778.5	22.49	21.50	20.47	18.16
		1745.0	22.35	21.43	20.48	18.11
		1711.5	22.48	21.61	20.44	18.14
	100% RB	1778.5	22.50	21.47	20.44	18.21
		1745.0	22.48	21.46	20.43	18.33
		1711.5	22.55	21.54	20.49	18.02
5MHz	1 RB high	1777.5	23.34	22.74	21.66	18.24
		1745.0	23.31	22.48	21.38	18.06
		1712.5	23.37	22.78	21.72	18.00
	1 RB low	1777.5	23.37	22.70	21.40	18.04
		1745.0	23.29	22.54	21.51	18.13
		1712.5	23.46	22.85	21.41	18.29
	50% RB mid	1777.5	22.51	21.51	20.46	18.35
		1745.0	22.50	21.39	20.46	18.14
		1712.5	22.52	21.57	20.53	18.20
	100% RB	1777.5	22.42	21.45	20.40	18.00
		1745.0	22.36	21.42	20.41	18.18
		1712.5	22.49	21.49	20.51	18.19
10MHz	1 RB high	1775.0	23.40	22.69	21.47	18.12
		1745.0	23.50	22.61	21.41	18.13
		1715.0	23.40	22.81	21.56	18.26
	1 RB low	1775.0	23.39	22.54	21.55	18.20

		1745.0	23.36	22.64	21.44	18.01
		1715.0	23.45	22.57	21.58	18.12
	50% RB mid	1775.0	22.52	21.54	20.47	18.33
		1745.0	22.48	21.52	20.49	18.09
		1715.0	22.52	21.57	20.50	18.19
	100% RB	1775.0	22.46	21.46	20.46	18.34
		1745.0	22.42	21.40	20.40	18.20
1715.0		22.44	21.41	20.43	18.15	
15MHz	1 RB high	1772.5	22.99	22.42	21.07	18.23
		1745.0	23.11	22.32	21.12	18.25
		1717.5	23.13	22.40	21.30	18.13
	1 RB low	1772.5	23.06	22.29	21.23	18.18
		1745.0	22.96	22.32	21.10	18.13
		1717.5	23.13	22.42	21.18	18.20
	50% RB mid	1772.5	22.09	21.18	20.16	18.27
		1745.0	22.11	21.13	20.17	18.14
		1717.5	22.25	21.18	20.21	18.17
	100% RB	1772.5	22.13	21.25	20.17	18.31
		1745.0	22.13	21.14	20.18	18.07
		1717.5	22.19	21.27	20.25	18.02
20MHz	1 RB high	1770.0	22.99	22.23	21.27	18.02
		1745.0	23.01	22.54	21.04	18.27
		1720.0	23.01	22.59	21.44	18.03
	1 RB low	1770.0	22.98	22.15	21.20	18.04
		1745.0	23.05	22.26	21.22	18.07
		1720.0	23.00	22.56	21.12	18.35
	50% RB mid	1770.0	22.05	21.10	20.04	18.33
		1745.0	22.05	21.05	20.15	18.10
		1720.0	22.14	21.08	20.08	18.14
	100% RB	1770.0	22.06	21.09	20.09	18.15
		1745.0	22.07	21.09	20.05	18.15
		1720.0	22.10	21.09	20.14	18.31

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.20	21.78	21.06	18.20
		680.5	23.28	21.84	21.00	18.14
		665.5	23.33	21.84	21.17	18.30
	1 RB low	695.5	23.29	21.81	20.99	18.13
		680.5	23.35	21.94	21.02	18.16
		665.5	22.74	21.59	20.66	17.52
	50% RB mid	695.5	22.33	20.66	20.02	18.23
		680.5	22.37	20.82	19.94	18.16
		665.5	22.51	20.96	20.08	18.29
	100% RB	695.5	22.28	20.55	19.79	18.02
		680.5	22.44	20.73	19.97	18.18
		665.5	22.50	20.81	20.03	18.24
10MHz	1 RB high	693.0	23.28	21.95	20.88	18.05
		680.5	23.23	21.95	20.93	18.09
		668.0	22.57	21.77	20.95	18.05
	1 RB low	693.0	22.72	21.58	20.52	17.73
		680.5	23.53	21.99	20.66	17.66
		668.0	23.02	21.68	20.58	17.70
	50% RB mid	693.0	22.37	20.70	19.92	18.14
		680.5	22.34	20.78	19.93	18.15
		668.0	22.44	20.83	20.06	18.27
	100% RB	693.0	22.35	20.67	19.91	18.13
		680.5	22.34	20.63	20.01	18.22
		668.0	22.62	20.63	20.04	18.25
15MHz	1 RB high	690.5	23.10	21.51	20.81	17.98
		680.5	22.63	21.57	20.56	17.77
		670.5	23.21	21.94	20.88	18.05
	1 RB low	690.5	23.22	21.68	20.78	17.96
		680.5	22.99	21.56	20.67	17.86
		670.5	23.39	21.87	20.84	18.01
	50% RB mid	690.5	22.24	20.51	19.80	18.03
		680.5	22.32	20.56	19.79	18.02
		670.5	21.93	20.55	19.66	17.91
	100% RB	690.5	22.32	20.59	19.67	17.92
		680.5	22.26	20.62	19.94	18.16
		670.5	22.51	20.73	20.08	18.29
20MHz	1 RB high	688.0	23.27	21.87	20.62	17.82
		680.5	23.08	21.85	20.70	17.89
		673.0	23.08	21.79	21.15	18.28
	1 RB low	688.0	23.27	21.76	21.05	18.19



		680.5	23.15	21.97	21.03	18.18
		673.0	23.05	22.04	21.01	18.15
	50% RB mid	688.0	22.27	20.60	19.87	18.09
		680.5	22.32	20.62	19.85	18.08
		673.0	22.26	20.78	19.99	18.20
	100% RB	688.0	22.33	20.57	19.88	18.10
		680.5	22.20	20.68	19.76	18.00
		673.0	22.28	20.72	20.01	18.22

LTE CA band 2C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	1870.8	1882.5	QPSK	1	24	1	0	23.58
			QPSK	25	0	100	0	21.61
			16QAM	1	24	1	0	22.61
			16QAM	25	0	100	0	20.58
			64QAM	1	24	1	0	21.59
			64QAM	25	0	100	0	20.60
			256QAM	1	24	1	0	18.50
			256QAM	25	0	100	0	18.61
10MHz/15MHz	1872.9	1884.9	QPSK	1	49	1	0	23.53
			QPSK	50	0	75	0	21.64
			16QAM	1	49	1	0	22.44
			16QAM	50	0	75	0	20.65
			64QAM	1	49	1	0	21.58
			64QAM	50	0	75	0	20.67
			256QAM	1	49	1	0	18.53
			256QAM	50	0	75	0	18.67
10MHz/20MHz	1870.6	1885.0	QPSK	1	49	1	0	23.58
			QPSK	50	0	100	0	21.70
			16QAM	1	49	1	0	22.51
			16QAM	50	0	100	0	20.72
			64QAM	1	49	1	0	21.62
			64QAM	50	0	100	0	20.70
			256QAM	1	49	1	0	18.62
			256QAM	50	0	100	0	18.69
15MHz/10MHz	1875.1	1887.1	QPSK	1	74	1	0	23.60
			QPSK	75	0	50	0	21.71
			16QAM	1	74	1	0	22.59
			16QAM	75	0	50	0	20.70
			64QAM	1	74	1	0	21.63
			64QAM	75	0	50	0	20.72
			256QAM	1	74	1	0	18.53
			256QAM	75	0	50	0	18.71
15MHz/15MHz	1872.5	1887.5	QPSK	1	74	1	0	23.61
			QPSK	75	0	75	0	21.72
			16QAM	1	74	1	0	22.64
			16QAM	75	0	75	0	20.74
			64QAM	1	74	1	0	21.63
			64QAM	75	0	75	0	20.73
			256QAM	1	74	1	0	18.54
			256QAM	75	0	75	0	18.70

15MHz/20MHz	1870.3	1887.4	QPSK	1	74	1	0	23.66
			QPSK	75	0	100	0	21.73
			16QAM	1	74	1	0	22.48
			16QAM	75	0	100	0	20.72
			64QAM	1	74	1	0	21.67
			64QAM	75	0	100	0	20.75
			256QAM	1	74	1	0	18.52
			256QAM	75	0	100	0	18.70
20MHz/5MHz	1877.5	1889.2	QPSK	1	99	1	0	23.70
			QPSK	100	0	25	0	21.76
			16QAM	1	99	1	0	22.51
			16QAM	100	0	25	0	20.74
			64QAM	1	99	1	0	21.72
			64QAM	100	0	25	0	20.72
			256QAM	1	99	1	0	18.61
			256QAM	100	0	25	0	18.73
20MHz/10MHz	1875.1	1889.5	QPSK	1	99	1	0	23.62
			QPSK	100	0	50	0	21.76
			16QAM	1	99	1	0	22.54
			16QAM	100	0	50	0	20.74
			64QAM	1	99	1	0	21.71
			64QAM	100	0	50	0	20.74
			256QAM	1	99	1	0	18.59
			256QAM	100	0	50	0	18.74
20MHz/15MHz	1872.6	1889.7	QPSK	1	99	1	0	23.64
			QPSK	100	0	75	0	21.74
			16QAM	1	99	1	0	22.53
			16QAM	100	0	75	0	20.74
			64QAM	1	99	1	0	21.58
			64QAM	100	0	75	0	20.75
			256QAM	1	99	1	0	18.59
			256QAM	100	0	75	0	18.70
20MHz/20MHz	1870.1	1889.9	QPSK	1	99	1	0	23.68
			QPSK	100	0	100	0	21.73
			16QAM	1	99	1	0	22.57
			16QAM	100	0	100	0	20.72
			64QAM	1	99	1	0	21.68
			64QAM	100	0	100	0	20.73
			256QAM	1	99	1	0	18.58
			256QAM	100	0	100	0	18.66

LTE CA band 66B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.85
			QPSK	25	0	25	0	21.91
			16QAM	1	24	1	0	22.72
			16QAM	25	0	25	0	20.92
			64QAM	1	24	1	0	21.74
			64QAM	25	0	25	0	20.90
			256QAM	1	24	1	0	18.85
			256QAM	25	0	25	0	18.88
5MHz/10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.75
			QPSK	25	0	50	0	21.74
			16QAM	1	24	1	0	22.70
			16QAM	25	0	50	0	20.76
			64QAM	1	24	1	0	21.75
			64QAM	25	0	50	0	20.75
			256QAM	1	24	1	0	18.72
			256QAM	25	0	50	0	18.73
5MHz/15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.75
			QPSK	25	0	75	0	21.75
			16QAM	1	24	1	0	22.64
			16QAM	25	0	75	0	20.74
			64QAM	1	24	1	0	21.69
			64QAM	25	0	75	0	20.73
			256QAM	1	24	1	0	18.68
			256QAM	25	0	75	0	18.69
10MHz/5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.61
			QPSK	50	0	25	0	21.74
			16QAM	1	49	1	0	22.59
			16QAM	50	0	25	0	20.73
			64QAM	1	49	1	0	21.73
			64QAM	50	0	25	0	20.74
			256QAM	1	49	1	0	18.63
			256QAM	50	0	25	0	18.73
10MHz/10MHz	1750.1	1760.0	QPSK	1	49	1	0	23.67
			QPSK	50	0	50	0	21.75
			16QAM	1	49	1	0	22.50
			16QAM	50	0	50	0	20.74
			64QAM	1	49	1	0	21.64
			64QAM	50	0	50	0	20.74
			256QAM	1	49	1	0	18.51
			256QAM	50	0	50	0	18.73



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15MHz/5MHz	1752.6	1761.9	QPSK	1	74	1	0	23.76
			QPSK	75	0	25	0	21.77
			16QAM	1	74	1	0	22.69
			16QAM	75	0	25	0	20.72
			64QAM	1	74	1	0	21.65
			64QAM	75	0	25	0	20.74
			256QAM	1	74	1	0	18.74
			256QAM	75	0	25	0	18.71

LTE CA band 66C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.64
			QPSK	25	0	100	0	21.73
			16QAM	1	24	1	0	22.63
			16QAM	25	0	100	0	20.70
			64QAM	1	24	1	0	21.53
			64QAM	25	0	100	0	20.71
			256QAM	1	24	1	0	18.64
			256QAM	25	0	100	0	18.69
10MHz/15MHz	1747.9	1759.9	QPSK	1	49	1	0	23.63
			QPSK	50	0	75	0	21.72
			16QAM	1	49	1	0	22.56
			16QAM	50	0	75	0	20.73
			64QAM	1	49	1	0	21.65
			64QAM	50	0	75	0	20.72
			256QAM	1	49	1	0	18.51
			256QAM	50	0	75	0	18.69
10MHz/20MHz	1745.6	1760.0	QPSK	1	49	1	0	23.71
			QPSK	50	0	100	0	21.73
			16QAM	1	49	1	0	22.58
			16QAM	50	0	100	0	20.74
			64QAM	1	49	1	0	21.69
			64QAM	50	0	100	0	20.71
			256QAM	1	49	1	0	18.56
			256QAM	50	0	100	0	18.70
15MHz/10MHz	1750.1	1762.1	QPSK	1	74	1	0	23.60
			QPSK	75	0	50	0	21.73
			16QAM	1	74	1	0	22.57
			16QAM	75	0	50	0	20.71
			64QAM	1	74	1	0	21.64
			64QAM	75	0	50	0	20.73
			256QAM	1	74	1	0	18.63
			256QAM	75	0	50	0	18.68
15MHz/15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.64
			QPSK	75	0	75	0	21.73
			16QAM	1	74	1	0	22.48
			16QAM	75	0	75	0	20.70
			64QAM	1	74	1	0	21.66
			64QAM	75	0	75	0	20.75
			256QAM	1	74	1	0	18.60
			256QAM	75	0	75	0	18.75

15MHz/20MHz	1745.3	1762.4	QPSK	1	74	1	0	23.68
			QPSK	75	0	100	0	21.73
			16QAM	1	74	1	0	22.55
			16QAM	75	0	100	0	20.74
			64QAM	1	74	1	0	21.64
			64QAM	75	0	100	0	20.73
			256QAM	1	74	1	0	18.58
			256QAM	75	0	100	0	18.72
20MHz/5MHz	1752.5	1764.2	QPSK	1	99	1	0	23.57
			QPSK	100	0	25	0	21.73
			16QAM	1	99	1	0	22.43
			16QAM	100	0	25	0	20.72
			64QAM	1	99	1	0	21.65
			64QAM	100	0	25	0	20.71
			256QAM	1	99	1	0	18.63
			256QAM	100	0	25	0	18.68
20MHz/10MHz	1750.1	1764.5	QPSK	1	99	1	0	23.69
			QPSK	100	0	50	0	21.75
			16QAM	1	99	1	0	22.64
			16QAM	100	0	50	0	20.76
			64QAM	1	99	1	0	21.65
			64QAM	100	0	50	0	20.73
			256QAM	1	99	1	0	18.67
			256QAM	100	0	50	0	18.77
20MHz/15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.58
			QPSK	100	0	75	0	21.73
			16QAM	1	99	1	0	22.61
			16QAM	100	0	75	0	20.74
			64QAM	1	99	1	0	21.64
			64QAM	100	0	75	0	20.75
			256QAM	1	99	1	0	18.64
			256QAM	100	0	75	0	18.72
20MHz/20MHz	1745.1	1764.9	QPSK	1	99	1	0	23.67
			QPSK	100	0	100	0	21.76
			16QAM	1	99	1	0	22.63
			16QAM	100	0	100	0	20.74
			64QAM	1	99	1	0	21.67
			64QAM	100	0	100	0	20.74
			256QAM	1	99	1	0	18.68
			256QAM	100	0	100	0	18.72

A.1.3 Radiated

A.1.3.1 Description

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

FDD Band 7: 27.50(h)(2) specifies " Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power".

FDD Band 12: 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 25: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

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

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

FDD Band 41: 27.50(h)(2) specifies " *Mobile and other user stations.* Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power".

FDD Band 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".

FDD Band 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".

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.

LTE band 7- EIRP
Limits: ≤33 dBm (2W)

Max EIRP: 22.65dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.87dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	23.3	22.71	21.6	18.34	22.43	21.84	20.73	17.47
		2535.0	23.28	22.48	21.38	18.21	22.41	21.61	20.51	17.34
		2502.5	23.24	22.56	21.53	18.24	22.37	21.69	20.66	17.37
	1 RB low	2567.5	23.33	22.68	21.46	18.38	22.46	21.81	20.59	17.51
		2535.0	23.26	22.54	21.52	18.42	22.39	21.67	20.65	17.55
		2502.5	23.24	22.48	21.39	18.48	22.37	21.61	20.52	17.61
	50% RB mid	2567.5	22.45	21.56	20.43	18.21	21.58	20.69	19.56	17.34
		2535.0	22.31	21.3	20.42	18.23	21.44	20.43	19.55	17.36
		2502.5	22.3	21.29	20.44	18.39	21.43	20.42	19.57	17.52
	100% RB	2567.5	22.41	21.46	20.48	18.27	21.54	20.59	19.61	17.40
		2535.0	22.29	21.3	20.42	18.2	21.42	20.43	19.55	17.33
		2502.5	22.29	21.28	20.41	18.45	21.42	20.41	19.54	17.58
10MHz	1 RB high	2565.0	23.52	22.79	21.51	18.24	22.65	21.92	20.64	17.37
		2535.0	23.27	22.53	21.29	18.46	22.40	21.66	20.42	17.59
		2505.0	23.21	22.31	21.52	18.36	22.34	21.44	20.65	17.49
	1 RB low	2565.0	23.45	22.52	21.59	18.48	22.58	21.65	20.72	17.61
		2535.0	23.33	22.6	21.55	18.3	22.46	21.73	20.68	17.43
		2505.0	23.22	22.47	21.47	18.31	22.35	21.60	20.60	17.44
	50% RB mid	2565.0	22.43	21.35	20.43	18.2	21.56	20.48	19.56	17.33
		2535.0	22.38	21.39	20.5	18.41	21.51	20.52	19.63	17.54
		2505.0	22.36	21.39	20.5	18.5	21.49	20.52	19.63	17.63
	100% RB	2565.0	22.43	21.45	20.44	18.22	21.56	20.58	19.57	17.35
		2535.0	22.39	21.32	20.43	18.39	21.52	20.45	19.56	17.52
		2505.0	22.34	21.29	20.41	18.31	21.47	20.42	19.54	17.44
15MHz	1 RB high	2562.5	23.11	22.55	21.24	18.39	22.24	21.68	20.37	17.52
		2535.0	23.15	22.38	21.36	18.31	22.28	21.51	20.49	17.44
		2507.5	23.18	22.25	21.27	18.2	22.31	21.38	20.40	17.33
	1 RB low	2562.5	23.17	22.5	21.23	18.44	22.30	21.63	20.36	17.57
		2535.0	23.1	22.46	21.33	18.31	22.23	21.59	20.46	17.44
		2507.5	23.19	22.49	21.33	18.44	22.32	21.62	20.46	17.57
	50% RB mid	2562.5	22.31	21.27	20.33	18.24	21.44	20.40	19.46	17.37
		2535.0	22.22	21.2	20.26	18.47	21.35	20.33	19.39	17.60
		2507.5	22.17	21.18	20.29	18.42	21.30	20.31	19.42	17.55
	100% RB	2562.5	22.33	21.32	20.34	18.47	21.46	20.45	19.47	17.60
		2535.0	22.13	21.21	20.23	18.3	21.26	20.34	19.36	17.43
		2507.5	22.15	21.16	20.15	18.5	21.28	20.29	19.28	17.63

20MH z	1 RB high	2560.0	23.21	22.59	21.46	18.39	22.34	21.72	20.59	17.52
		2535.0	23.1	22.35	21.2	18.24	22.23	21.48	20.33	17.37
		2510.0	23.03	22.56	21.32	18.41	22.16	21.69	20.45	17.54
	1 RB low	2560.0	23.25	22.48	21.42	18.26	22.38	21.61	20.55	17.39
		2535.0	23.07	22.5	21.26	18.25	22.20	21.63	20.39	17.38
		2510.0	22.95	22.15	21.26	18.47	22.08	21.28	20.39	17.60
	50% RB mid	2560.0	22.21	21.14	20.33	18.4	21.34	20.27	19.46	17.53
		2535.0	22.24	21.24	20.29	18.3	21.37	20.37	19.42	17.43
		2510.0	22.14	21.22	20.21	18.41	21.27	20.35	19.34	17.54
	100% RB	2560.0	22.31	21.16	20.33	18.33	21.44	20.29	19.46	17.46
		2535.0	22.2	21.21	20.28	18.25	21.33	20.34	19.41	17.38
		2510.0	22.18	21.15	20.28	18.35	21.31	20.28	19.41	17.48

LTE band 12-ERP
Limits: ≤34.77dBm (3W)

Max ERP: 17.43dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -3.9dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	715.3	23.31	22.58	21.44	18.4	17.26	16.53	15.39	12.35
		707.5	23.34	22.65	21.64	18.54	17.29	16.60	15.59	12.49
		699.7	23.39	22.74	21.66	18.46	17.34	16.69	15.61	12.41
	1 RB low	715.3	23.33	22.67	21.58	18.39	17.28	16.62	15.53	12.34
		707.5	23.3	22.52	21.55	18.52	17.25	16.47	15.50	12.47
		699.7	23.36	22.74	21.79	18.58	17.31	16.69	15.74	12.53
	50% RB mid	715.3	23.32	22.41	21.5	18.43	17.27	16.36	15.45	12.38
		707.5	23.34	22.52	21.65	18.55	17.29	16.47	15.60	12.50
		699.7	23.36	22.58	21.64	18.35	17.31	16.53	15.59	12.30
	100% RB	715.3	22.35	21.46	20.51	18.48	16.30	15.41	14.46	12.43
		707.5	22.32	21.37	20.35	18.48	16.27	15.32	14.30	12.43
		699.7	22.39	21.44	20.59	18.58	16.34	15.39	14.54	12.53
3MHz	1 RB high	714.5	23.33	22.6	21.43	18.56	17.28	16.55	15.38	12.51
		707.5	23.38	22.52	21.71	18.45	17.33	16.47	15.66	12.40
		700.5	23.36	22.8	21.64	18.49	17.31	16.75	15.59	12.44
	1 RB low	714.5	23.34	22.66	21.71	18.53	17.29	16.61	15.66	12.48
		707.5	23.36	22.78	21.48	18.44	17.31	16.73	15.43	12.39
		700.5	23.36	22.69	21.58	18.35	17.31	16.64	15.53	12.30
	50% RB mid	714.5	22.35	21.34	20.45	18.49	16.30	15.29	14.40	12.44
		707.5	22.49	21.55	20.54	18.37	16.44	15.50	14.49	12.32
		700.5	22.51	21.58	20.55	18.37	16.46	15.53	14.50	12.32
	100% RB	714.5	22.38	21.31	20.35	18.35	16.33	15.26	14.30	12.30
		707.5	22.37	21.38	20.54	18.54	16.32	15.33	14.49	12.49
		700.5	22.49	21.46	20.6	18.6	16.44	15.41	14.55	12.55
5MHz	1 RB high	713.5	23.41	22.57	21.61	18.47	17.36	16.52	15.56	12.42
		707.5	23.33	22.87	21.37	18.58	17.28	16.82	15.32	12.53
		701.5	23.31	22.73	21.49	18.38	17.26	16.68	15.44	12.33
	1 RB low	713.5	23.37	22.69	21.69	18.49	17.32	16.64	15.64	12.44
		707.5	23.37	22.66	21.63	18.38	17.32	16.61	15.58	12.33
		701.5	23.3	22.76	21.7	18.58	17.25	16.71	15.65	12.53
	50% RB mid	713.5	23.41	21.37	20.53	18.5	17.36	15.32	14.48	12.45
		707.5	22.38	21.37	20.48	18.43	16.33	15.32	14.43	12.38
		701.5	22.43	21.57	20.6	18.38	16.38	15.52	14.55	12.33
	100% RB	713.5	22.41	21.39	20.42	18.38	16.36	15.34	14.37	12.33
		707.5	22.33	21.36	20.49	18.43	16.28	15.31	14.44	12.38
		701.5	22.42	21.54	20.55	18.45	16.37	15.49	14.50	12.40

10MH z	1 RB high	711	23.21	22.37	21.83	18.35	17.16	16.32	15.78	12.30
		707.5	23.2	22.5	21.37	18.45	17.15	16.45	15.32	12.40
		704	23.31	22.42	21.5	18.6	17.26	16.37	15.45	12.55
	1 RB low	711	23.46	22.71	22.39	18.59	17.41	16.66	16.34	12.54
		707.5	23.32	22.65	21.56	18.51	17.27	16.60	15.51	12.46
		704	23.48	22.53	21.64	18.47	17.43	16.48	15.59	12.42
	50% RB mid	711	22.41	21.4	20.7	18.53	16.36	15.35	14.65	12.48
		707.5	22.31	21.28	20.4	18.35	16.26	15.23	14.35	12.30
		704	22.41	21.41	20.47	18.55	16.36	15.36	14.42	12.50
	100% RB	711	22.3	21.43	20.39	18.37	16.25	15.38	14.34	12.32
		707.5	22.28	21.24	20.37	18.56	16.23	15.19	14.32	12.51
		704	22.42	21.44	20.32	18.42	16.37	15.39	14.27	12.37

LTE band 25- EIRP
Limits: ≤33dBm (2W)

Max ERP: 22.10dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -1.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.6	22.69	21.61	18.96	22.10	21.19	20.11	17.46
		1882.5	23.34	22.67	21.47	18.54	21.84	21.17	19.97	17.04
		1850.7	23.34	22.54	21.68	18.59	21.84	21.04	20.18	17.09
	1 RB low	1914.3	23.36	22.72	21.47	17.86	21.86	21.22	19.97	16.36
		1882.5	23.36	22.58	21.48	17.82	21.86	21.08	19.98	16.32
		1850.7	23.3	22.81	21.54	18.52	21.80	21.31	20.04	17.02
	50% RB mid	1914.3	23.36	22.54	21.54	18.94	21.86	21.04	20.04	17.44
		1882.5	23.47	22.43	21.57	19.12	21.97	20.93	20.07	17.62
		1850.7	23.38	22.61	21.54	19.04	21.88	21.11	20.04	17.54
	100% RB	1914.3	22.46	21.58	20.51	18.8	20.96	20.08	19.01	17.30
		1882.5	22.41	21.46	20.6	19.04	20.91	19.96	19.10	17.54
		1850.7	22.42	21.44	20.56	18.74	20.92	19.94	19.06	17.24
3MHz	1 RB high	1913.5	23.32	22.94	21.57	18.52	21.82	21.44	20.07	17.02
		1882.5	23.41	22.67	21.62	17.98	21.91	21.17	20.12	16.48
		1851.5	23.37	22.65	21.58	18.16	21.87	21.15	20.08	16.66
	1 RB low	1913.5	23.38	22.68	21.62	18.36	21.88	21.18	20.12	16.86
		1882.5	23.39	22.75	21.55	18.77	21.89	21.25	20.05	17.27
		1851.5	23.28	22.76	21.58	19.18	21.78	21.26	20.08	17.68
	50% RB mid	1913.5	22.47	21.64	20.6	18.81	20.97	20.14	19.10	17.31
		1882.5	22.45	21.53	20.62	18.35	20.95	20.03	19.12	16.85
		1851.5	22.47	21.51	20.59	19.06	20.97	20.01	19.09	17.56
	100% RB	1913.5	22.49	21.46	20.5	19.24	20.99	19.96	19.00	17.74
		1882.5	22.47	21.41	20.46	17.81	20.97	19.91	18.96	16.31
		1851.5	22.45	21.45	20.53	17.87	20.95	19.95	19.03	16.37
5MHz	1 RB high	1912.5	23.38	22.93	21.78	18.15	21.88	21.43	20.28	16.65
		1882.5	23.37	22.75	21.73	17.96	21.87	21.25	20.23	16.46
		1852.5	23.37	22.69	21.61	17.98	21.87	21.19	20.11	16.48
	1 RB low	1912.5	23.35	22.83	21.59	18.05	21.85	21.33	20.09	16.55
		1882.5	23.32	23.01	21.58	18.5	21.82	21.51	20.08	17.00
		1852.5	23.28	22.66	21.62	18.68	21.78	21.16	20.12	17.18
	50% RB mid	1912.5	22.52	21.57	20.63	19.21	21.02	20.07	19.13	17.71
		1882.5	22.46	21.46	20.55	19.12	20.96	19.96	19.05	17.62
		1852.5	22.46	21.47	20.62	18.86	20.96	19.97	19.12	17.36
	100% RB	1912.5	22.54	21.52	20.58	17.91	21.04	20.02	19.08	16.41
		1882.5	22.46	21.46	20.57	18.86	20.96	19.96	19.07	17.36
		1852.5	22.44	21.46	20.57	18.35	20.94	19.96	19.07	16.85

10MH z	1 RB high	1910	23.41	22.53	21.75	18.47	21.91	21.03	20.25	16.97
		1882.5	23.34	22.65	21.69	18.07	21.84	21.15	20.19	16.57
		1855	23.34	22.8	21.59	19.14	21.84	21.30	20.09	17.64
	1 RB low	1910	23.41	22.79	21.66	18.37	21.91	21.29	20.16	16.87
		1882.5	23.41	22.79	21.58	18.5	21.91	21.29	20.08	17.00
		1855	23.32	22.64	21.68	19.14	21.82	21.14	20.18	17.64
	50% RB mid	1910	22.5	21.59	20.64	18.14	21.00	20.09	19.14	16.64
		1882.5	22.43	21.52	20.55	18.56	20.93	20.02	19.05	17.06
		1855	22.42	21.55	20.56	18.6	20.92	20.05	19.06	17.10
	100 % RB	1910	22.5	21.53	20.6	18.06	21.00	20.03	19.10	16.56
		1882.5	22.32	21.39	20.49	18.49	20.82	19.89	18.99	16.99
		1855	22.39	21.44	20.57	19.28	20.89	19.94	19.07	17.78
15MH z	1 RB high	1907.5	23.25	22.46	21.75	18.46	21.75	20.96	20.25	16.96
		1882.5	23.27	22.41	21.46	19.04	21.77	20.91	19.96	17.54
		1857.5	23.27	22.42	21.43	18.42	21.77	20.92	19.93	16.92
	1 RB low	1907.5	23.19	22.54	21.31	18.95	21.69	21.04	19.81	17.45
		1882.5	23.16	22.61	21.56	18.28	21.66	21.11	20.06	16.78
		1857.5	23.24	22.47	21.41	18.04	21.74	20.97	19.91	16.54
	50% RB mid	1907.5	22.26	21.23	20.38	17.98	20.76	19.73	18.88	16.48
		1882.5	22.29	21.28	20.39	19.02	20.79	19.78	18.89	17.52
		1857.5	22.28	21.32	20.4	19.3	20.78	19.82	18.90	17.80
	100 % RB	1907.5	22.22	21.28	20.42	19.27	20.72	19.78	18.92	17.77
		1882.5	22.16	21.29	20.3	19.24	20.66	19.79	18.80	17.74
		1857.5	22.27	21.29	20.39	18.67	20.77	19.79	18.89	17.17
20MH z	1 RB high	1905	23.15	22.53	21.42	18.82	21.65	21.03	19.92	17.32
		1882.5	23.26	22.35	21.3	18.44	21.76	20.85	19.80	16.94
		1860	23.21	22.29	21.3	18.6	21.71	20.79	19.80	17.10
	1 RB low	1905	23.34	22.58	21.48	17.84	21.84	21.08	19.98	16.34
		1882.5	23.35	22.33	21.34	18.41	21.85	20.83	19.84	16.91
		1860	23.22	22.21	21.42	18.54	21.72	20.71	19.92	17.04
	50% RB mid	1905	22.26	21.3	20.3	18.98	20.76	19.80	18.80	17.48
		1882.5	22.19	21.25	20.19	18.01	20.69	19.75	18.69	16.51
		1860	22.27	21.35	20.3	19.13	20.77	19.85	18.80	17.63
	100 % RB	1905	22.31	21.29	20.27	18.42	20.81	19.79	18.77	16.92
		1882.5	22.3	21.28	20.36	18.5	20.80	19.78	18.86	17.00
		1860	22.36	21.35	20.3	19.22	20.86	19.85	18.80	17.72

LTE Band 26(814MHz~824MHz)-ERP
Limits: ≤50dBm (100W)

Max ERP: 16.91dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -3.9dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	823.3	22.92	22.09	21.04	18.04	16.87	16.04	14.99	11.99
		819	22.94	22.08	21.07	18.03	16.89	16.03	15.02	11.98
		814.7	22.94	22.04	21.03	18.11	16.89	15.99	14.98	12.06
	1 RB low	823.3	22.91	22.04	20.94	18.08	16.86	15.99	14.89	12.03
		819	22.87	22	20.67	18.02	16.82	15.95	14.62	11.97
		814.7	22.91	21.96	20.65	17.99	16.86	15.91	14.60	11.94
	50% RB mid	823.3	22.91	22.05	21.02	18.03	16.86	16.00	14.97	11.98
		819	22.93	22.07	21.12	18.01	16.88	16.02	15.07	11.96
		814.7	22.91	22.05	21.07	17.98	16.86	16.00	15.02	11.93
	100% RB	823.3	21.93	21.03	19.89	17.94	15.88	14.98	13.84	11.89
		819	21.95	21.06	20.03	17.97	15.90	15.01	13.98	11.92
		814.7	21.91	21.03	19.98	18	15.86	14.98	13.93	11.95
3MHz	1 RB high	822.5	22.88	21.96	21.02	17.97	16.83	15.91	14.97	11.92
		819	22.87	21.98	21.19	18.08	16.82	15.93	15.14	12.03
		815.5	22.91	21.98	20.93	18.12	16.86	15.93	14.88	12.07
	1 RB low	822.5	22.89	21.95	20.88	17.98	16.84	15.90	14.83	11.93
		819	22.88	21.99	20.97	17.96	16.83	15.94	14.92	11.91
		815.5	22.91	22.05	21	18.08	16.86	16.00	14.95	12.03
	50% RB mid	822.5	21.93	21	19.95	18.02	15.88	14.95	13.90	11.97
		819	21.92	21.01	19.97	17.97	15.87	14.96	13.92	11.92
		815.5	21.9	20.97	19.98	17.99	15.85	14.92	13.93	11.94
	100% RB	822.5	21.93	21	19.93	17.98	15.88	14.95	13.88	11.93
		819	21.93	20.93	20.01	18.02	15.88	14.88	13.96	11.97
		815.5	21.96	20.97	19.97	17.95	15.91	14.92	13.92	11.90
5MHz	1 RB high	821.5	22.94	22.14	21.02	18.18	16.89	16.09	14.97	12.13
		819	22.93	22.11	21.07	18.15	16.88	16.06	15.02	12.10
		816.5	22.94	22.14	21.02	18.11	16.89	16.09	14.97	12.06
	1 RB low	821.5	22.92	22.06	21.18	17.98	16.87	16.01	15.13	11.93
		819	22.93	22.08	21.05	17.88	16.88	16.03	15.00	11.83
		816.5	22.9	22.11	21.26	18.06	16.85	16.06	15.21	12.01
	50% RB mid	821.5	21.97	21.04	20.05	18.03	15.92	14.99	14.00	11.98
		819	21.95	20.98	20.02	17.99	15.90	14.93	13.97	11.94
		816.5	21.96	21.05	20	18.03	15.91	15.00	13.95	11.98
	100% RB	821.5	21.96	21.01	19.99	18.01	15.91	14.96	13.94	11.96
		819	21.96	20.97	19.97	17.98	15.91	14.92	13.92	11.93
		816.5	21.97	20.98	19.97	17.97	15.92	14.93	13.92	11.92



10MH z	1 RB high	819	22.96	22.09	21.16	18.12	16.91	16.04	15.11	12.07
	1 RB low	819	22.95	22.16	20.77	18.04	16.90	16.11	14.72	11.99
	50% RB mid	819	22.02	21.08	19.97	18.06	15.97	15.03	13.92	12.01
	100% RB	819	22	21.05	20.02	18.03	15.95	15.00	13.97	11.98

LTE band 26(824MHz~849MHz)- ERP
Limits: ≤38.45dBm (7W)

Max ERP: 16.94dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -3.9dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	848.3	22.86	22.01	21.01	18.02	16.81	15.96	14.96	11.97
		836.5	22.97	22.08	21.36	18.08	16.92	16.03	15.31	12.03
		824.7	22.99	22.18	21.09	17.95	16.94	16.13	15.04	11.90
	1 RB low	848.3	22.87	21.96	20.92	18.02	16.82	15.91	14.87	11.97
		836.5	22.96	22.02	20.74	17.97	16.91	15.97	14.69	11.92
		824.7	22.98	22.11	21	17.97	16.93	16.06	14.95	11.92
	50% RB mid	848.3	22.85	21.98	20.96	17.9	16.80	15.93	14.91	11.85
		836.5	22.93	22.06	21.02	17.93	16.88	16.01	14.97	11.88
		824.7	22.96	22.09	21.02	18.09	16.91	16.04	14.97	12.04
	100% RB	848.3	21.83	20.92	19.88	17.87	15.78	14.87	13.83	11.82
		836.5	21.92	20.96	19.94	18.02	15.87	14.91	13.89	11.97
		824.7	21.94	21.03	19.98	17.97	15.89	14.98	13.93	11.92
3MHz	1 RB high	847.5	22.83	21.92	21.03	17.96	16.78	15.87	14.98	11.91
		836.5	22.9	22.01	21.2	18.03	16.85	15.96	15.15	11.98
		825.5	22.91	22.02	20.97	18.12	16.86	15.97	14.92	12.07
	1 RB low	847.5	22.82	21.98	21.03	17.91	16.77	15.93	14.98	11.86
		836.5	22.89	22.07	20.9	17.95	16.84	16.02	14.85	11.90
		825.5	22.92	21.98	21.21	18.05	16.87	15.93	15.16	12.00
	50% RB mid	847.5	21.86	20.94	19.9	17.93	15.81	14.89	13.85	11.88
		836.5	21.92	21.02	19.91	17.96	15.87	14.97	13.86	11.91
		825.5	21.93	20.98	19.93	17.97	15.88	14.93	13.88	11.92
	100% RB	847.5	21.82	20.89	19.85	17.88	15.77	14.84	13.80	11.83
		836.5	21.94	20.97	19.97	17.96	15.89	14.92	13.92	11.91
		825.5	21.93	20.94	20	18.01	15.88	14.89	13.95	11.96
5MHz	1 RB high	846.5	22.87	22.06	21	18.08	16.82	16.01	14.95	12.03
		836.5	22.91	22.16	21.04	18.09	16.86	16.11	14.99	12.04
		826.5	22.92	22.18	20.94	18.16	16.87	16.13	14.89	12.11
	1 RB low	846.5	22.9	22.01	21.15	18.08	16.85	15.96	15.10	12.03
		836.5	22.95	22.08	21.24	18.1	16.90	16.03	15.19	12.05
		826.5	22.9	22.14	21.22	18.16	16.85	16.09	15.17	12.11
	50% RB mid	846.5	21.88	20.9	19.93	17.99	15.83	14.85	13.88	11.94
		836.5	21.93	20.95	19.98	17.98	15.88	14.90	13.93	11.93
		826.5	21.97	20.98	20.09	18.06	15.92	14.93	14.04	12.01
	100% RB	846.5	21.87	20.9	19.93	17.94	15.82	14.85	13.88	11.89
		836.5	21.94	20.98	19.96	17.96	15.89	14.93	13.91	11.91
		826.5	21.93	21.01	19.99	18.01	15.88	14.96	13.94	11.96

10MH z	1 RB high	844.0	22.92	22.05	21.16	18.13	16.87	16.00	15.11	12.08
		836.5	22.97	22.07	21.17	18.14	16.92	16.02	15.12	12.09
		829.0	22.9	22.12	21.15	18.17	16.85	16.07	15.10	12.12
	1 RB low	844.0	22.95	22.13	20.84	18.1	16.90	16.08	14.79	12.05
		836.5	22.99	22.14	21.13	18.05	16.94	16.09	15.08	12.00
		829.0	22.94	22.14	21.17	18.15	16.89	16.09	15.12	12.10
	50% RB mid	844.0	21.96	21.04	19.96	18.01	15.91	14.99	13.91	11.96
		836.5	21.95	20.97	20	18.01	15.90	14.92	13.95	11.96
		829.0	22.03	21.1	20.11	18.1	15.98	15.05	14.06	12.05
	100% RB	844.0	21.93	20.99	19.99	18.02	15.88	14.94	13.94	11.97
		836.5	21.98	20.99	20.01	18.03	15.93	14.94	13.96	11.98
		829.0	22	21	20.04	18.05	15.95	14.95	13.99	12.00
15MH z	1 RB high	841.5	22.59	21.7	20.83	17.94	16.54	15.65	14.78	11.89
		836.5	22.61	21.77	20.95	17.97	16.56	15.72	14.90	11.92
		831.5	22.63	21.82	20.93	18.05	16.58	15.77	14.88	12.00
	1 RB low	841.5	22.74	21.97	20.75	17.84	16.69	15.92	14.70	11.79
		836.5	22.75	21.88	20.93	17.92	16.70	15.83	14.88	11.87
		831.5	22.69	21.89	20.79	17.88	16.64	15.84	14.74	11.83
	50% RB mid	841.5	21.81	20.76	19.84	17.8	15.76	14.71	13.79	11.75
		836.5	21.82	20.79	19.85	17.81	15.77	14.74	13.80	11.76
		831.5	21.86	20.83	19.88	17.81	15.81	14.78	13.83	11.76
	100% RB	841.5	21.86	20.84	19.93	17.87	15.81	14.79	13.88	11.82
		836.5	21.85	20.86	19.87	17.89	15.80	14.81	13.82	11.84
		831.5	21.78	20.81	19.8	17.86	15.73	14.76	13.75	11.81

LTE band 41- EIRP
Limits: ≤33 dBm (2W)

Max EIRP: 25.05dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -0.62dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.12	24.56	23.36	20.24	24.50	23.94	22.74	19.62
		2593	25.66	24.99	23.9	20.46	25.04	24.37	23.28	19.84
		2498.5	25.26	24.72	23.6	20.46	24.64	24.10	22.98	19.84
	1 RB low	2687.5	25.23	24.72	23.64	20.46	24.61	24.10	23.02	19.84
		2593	25.49	24.89	23.62	20.3	24.87	24.27	23.00	19.68
		2498.5	25.63	25.01	23.89	20.36	25.01	24.39	23.27	19.74
	50% RB mid	2687.5	24.34	23.41	22.41	20.55	23.72	22.79	21.79	19.93
		2593	24.73	23.81	22.85	20.39	24.11	23.19	22.23	19.77
		2498.5	24.63	23.62	22.71	20.2	24.01	23.00	22.09	19.58
	100% RB	2687.5	24.31	23.4	22.4	20.22	23.69	22.78	21.78	19.60
		2593	24.7	23.71	22.8	20.2	24.08	23.09	22.18	19.58
		2498.5	24.59	23.58	22.67	20.36	23.97	22.96	22.05	19.74
10MHz	1 RB high	2685	25.18	24.51	23.33	20.27	24.56	23.89	22.71	19.65
		2593	25.66	25.02	23.96	20.41	25.04	24.40	23.34	19.79
		2501	25.04	24.37	23.82	20.17	24.42	23.75	23.20	19.55
	1 RB low	2685	25.41	24.77	23.58	20.49	24.79	24.15	22.96	19.87
		2593	25.47	24.79	23.55	20.19	24.85	24.17	22.93	19.57
		2501	25.67	24.88	23.68	20.39	25.05	24.26	23.06	19.77
	50% RB mid	2685	24.45	23.4	22.57	20.43	23.83	22.78	21.95	19.81
		2593	24.79	23.73	22.73	20.39	24.17	23.11	22.11	19.77
		2501	24.37	23.48	22.27	20.19	23.75	22.86	21.65	19.57
	100% RB	2685	24.39	23.39	22.51	20.42	23.77	22.77	21.89	19.80
		2593	24.69	23.65	22.63	20.5	24.07	23.03	22.01	19.88
		2501	24.41	23.43	22.25	20.3	23.79	22.81	21.63	19.68
15MHz	1 RB high	2682.5	25.09	24.43	23.26	20.22	24.47	23.81	22.64	19.60
		2593	25.51	24.94	23.89	20.29	24.89	24.32	23.27	19.67
		2503.5	25.54	24.88	23.75	20.33	24.92	24.26	23.13	19.71
	1 RB low	2682.5	25.38	24.73	23.51	20.45	24.76	24.11	22.89	19.83
		2593	25.33	24.88	23.48	20.36	24.71	24.26	22.86	19.74
		2503.5	25.42	24.83	23.61	20.38	24.80	24.21	22.99	19.76
	50% RB mid	2682.5	24.35	23.41	22.5	20.34	23.73	22.79	21.88	19.72
		2593	24.58	23.63	22.66	20.33	23.96	23.01	22.04	19.71
		2503.5	24.1	23.13	22.2	20.47	23.48	22.51	21.58	19.85
	100% RB	2682.5	24.37	23.38	22.44	20.21	23.75	22.76	21.82	19.59
		2593	24.5	23.55	22.56	20.18	23.88	22.93	21.94	19.56
		2503.5	24.13	23.1	22.18	20.47	23.51	22.48	21.56	19.85

20MHz z	1 RB high	2680	25.12	24.31	23.31	20.36	24.50	23.69	22.69	19.74
		2593	25.57	24.9	23.85	20.25	24.95	24.28	23.23	19.63
		2506	25.4	24.74	23.66	20.55	24.78	24.12	23.04	19.93
	1 RB low	2680	25.46	24.9	23.8	20.15	24.84	24.28	23.18	19.53
		2593	25.2	24.58	23.63	20.5	24.58	23.96	23.01	19.88
		2506	25.37	24.83	23.71	20.16	24.75	24.21	23.09	19.54
	50% RB mid	2680	24.33	23.37	22.45	20.47	23.71	22.75	21.83	19.85
		2593	24.53	23.54	22.65	20.27	23.91	22.92	22.03	19.65
		2506	24.98	24.01	23.1	20.25	24.36	23.39	22.48	19.63
	100% RB	2680	24.32	23.37	22.46	20.22	23.70	22.75	21.84	19.60
		2593	24.5	23.51	22.6	20.54	23.88	22.89	21.98	19.92
		2506	24.02	23	22.17	20.37	23.40	22.38	21.55	19.75

LTE band 66- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 22.22dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -1.28dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	1779.3	23.41	22.75	21.62	18.12	22.13	21.47	20.34	16.84
		1745	23.25	22.67	21.33	18.16	21.97	21.39	20.05	16.88
		1710.7	23.38	22.65	21.51	18.09	22.10	21.37	20.23	16.81
	1 RB low	1779.3	23.46	22.77	21.54	18.2	22.18	21.49	20.26	16.92
		1745	23.39	22.68	21.35	18.1	22.11	21.40	20.07	16.82
		1710.7	23.35	22.61	21.38	18.22	22.07	21.33	20.10	16.94
	50% RB mid	1779.3	23.46	22.55	21.47	18.29	22.18	21.27	20.19	17.01
		1745	23.41	22.46	21.33	18.23	22.13	21.18	20.05	16.95
		1710.7	23.46	22.49	21.48	18.18	22.18	21.21	20.20	16.90
	100% RB	1779.3	22.44	21.49	20.39	18.18	21.16	20.21	19.11	16.90
		1745	22.37	21.38	20.42	18.35	21.09	20.10	19.14	17.07
		1710.7	22.43	21.56	20.48	18.17	21.15	20.28	19.20	16.89
3MHz	1 RB high	1778.5	23.38	22.77	21.5	18.16	22.10	21.49	20.22	16.88
		1745	23.34	22.64	21.51	18.08	22.06	21.36	20.23	16.80
		1711.5	23.34	22.74	21.55	18.23	22.06	21.46	20.27	16.95
	1 RB low	1778.5	23.4	22.72	21.49	18.13	22.12	21.44	20.21	16.85
		1745	23.29	22.6	21.43	18.15	22.01	21.32	20.15	16.87
		1711.5	23.35	22.72	21.5	18.13	22.07	21.44	20.22	16.85
	50% RB mid	1778.5	22.49	21.5	20.47	18.16	21.21	20.22	19.19	16.88
		1745	22.35	21.43	20.48	18.11	21.07	20.15	19.20	16.83
		1711.5	22.48	21.61	20.44	18.14	21.20	20.33	19.16	16.86
	100% RB	1778.5	22.5	21.47	20.44	18.21	21.22	20.19	19.16	16.93
		1745	22.48	21.46	20.43	18.33	21.20	20.18	19.15	17.05
		1711.5	22.55	21.54	20.49	18.02	21.27	20.26	19.21	16.74
5MHz	1 RB high	1777.5	23.34	22.74	21.66	18.24	22.06	21.46	20.38	16.96
		1745	23.31	22.48	21.38	18.06	22.03	21.20	20.10	16.78
		1712.5	23.37	22.78	21.72	18	22.09	21.50	20.44	16.72
	1 RB low	1777.5	23.37	22.7	21.4	18.04	22.09	21.42	20.12	16.76
		1745	23.29	22.54	21.51	18.13	22.01	21.26	20.23	16.85
		1712.5	23.46	22.85	21.41	18.29	22.18	21.57	20.13	17.01
	50% RB mid	1777.5	22.51	21.51	20.46	18.35	21.23	20.23	19.18	17.07
		1745	22.5	21.39	20.46	18.14	21.22	20.11	19.18	16.86
		1712.5	22.52	21.57	20.53	18.2	21.24	20.29	19.25	16.92
	100% RB	1777.5	22.42	21.45	20.4	18	21.14	20.17	19.12	16.72
		1745	22.36	21.42	20.41	18.18	21.08	20.14	19.13	16.90
		1712.5	22.49	21.49	20.51	18.19	21.21	20.21	19.23	16.91

10MH z	1 RB high	1775	23.4	22.69	21.47	18.12	22.12	21.41	20.19	16.84
		1745	23.5	22.61	21.41	18.13	22.22	21.33	20.13	16.85
		1715	23.4	22.81	21.56	18.26	22.12	21.53	20.28	16.98
	1 RB low	1775	23.39	22.54	21.55	18.2	22.11	21.26	20.27	16.92
		1745	23.36	22.64	21.44	18.01	22.08	21.36	20.16	16.73
		1715	23.45	22.57	21.58	18.12	22.17	21.29	20.30	16.84
	50% RB mid	1775	22.52	21.54	20.47	18.33	21.24	20.26	19.19	17.05
		1745	22.48	21.52	20.49	18.09	21.20	20.24	19.21	16.81
		1715	22.52	21.57	20.5	18.19	21.24	20.29	19.22	16.91
	100% RB	1775	22.46	21.46	20.46	18.34	21.18	20.18	19.18	17.06
		1745	22.42	21.4	20.4	18.2	21.14	20.12	19.12	16.92
		1715	22.44	21.41	20.43	18.15	21.16	20.13	19.15	16.87
15MH z	1 RB high	1772.5	22.99	22.42	21.07	18.23	21.71	21.14	19.79	16.95
		1745	23.11	22.32	21.12	18.25	21.83	21.04	19.84	16.97
		1717.5	23.13	22.4	21.3	18.13	21.85	21.12	20.02	16.85
	1 RB low	1772.5	23.06	22.29	21.23	18.18	21.78	21.01	19.95	16.90
		1745	22.96	22.32	21.1	18.13	21.68	21.04	19.82	16.85
		1717.5	23.13	22.42	21.18	18.2	21.85	21.14	19.90	16.92
	50% RB mid	1772.5	22.09	21.18	20.16	18.27	20.81	19.90	18.88	16.99
		1745	22.11	21.13	20.17	18.14	20.83	19.85	18.89	16.86
		1717.5	22.25	21.18	20.21	18.17	20.97	19.90	18.93	16.89
	100% RB	1772.5	22.13	21.25	20.17	18.31	20.85	19.97	18.89	17.03
		1745	22.13	21.14	20.18	18.07	20.85	19.86	18.90	16.79
		1717.5	22.19	21.27	20.25	18.02	20.91	19.99	18.97	16.74
20MH z	1 RB high	1770	22.99	22.23	21.27	18.02	21.71	20.95	19.99	16.74
		1745	23.01	22.54	21.04	18.27	21.73	21.26	19.76	16.99
		1720	23.01	22.59	21.44	18.03	21.73	21.31	20.16	16.75
	1 RB low	1770	22.98	22.15	21.2	18.04	21.70	20.87	19.92	16.76
		1745	23.05	22.26	21.22	18.07	21.77	20.98	19.94	16.79
		1720	23	22.56	21.12	18.35	21.72	21.28	19.84	17.07
	50% RB mid	1770	22.05	21.1	20.04	18.33	20.77	19.82	18.76	17.05
		1745	22.05	21.05	20.15	18.1	20.77	19.77	18.87	16.82
		1720	22.14	21.08	20.08	18.14	20.86	19.80	18.80	16.86
	100% RB	1770	22.06	21.09	20.09	18.15	20.78	19.81	18.81	16.87
		1745	22.07	21.09	20.05	18.15	20.79	19.81	18.77	16.87
		1720	22.1	21.09	20.14	18.31	20.82	19.81	18.86	17.03

LTE band 71- ERP
Limits: ≤34.77dBm (3W)

Max ERP: 17.18dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -4.2dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.2	21.78	21.06	18.2	16.85	15.43	14.71	11.85
		680.5	23.28	21.84	21	18.14	16.93	15.49	14.65	11.79
		665.5	23.33	21.84	21.17	18.3	16.98	15.49	14.82	11.95
	1 RB low	695.5	23.29	21.81	20.99	18.13	16.94	15.46	14.64	11.78
		680.5	23.35	21.94	21.02	18.16	17.00	15.59	14.67	11.81
		665.5	22.74	21.59	20.66	17.52	16.39	15.24	14.31	11.17
	50% RB mid	695.5	22.33	20.66	20.02	18.23	15.98	14.31	13.67	11.88
		680.5	22.37	20.82	19.94	18.16	16.02	14.47	13.59	11.81
		665.5	22.51	20.96	20.08	18.29	16.16	14.61	13.73	11.94
	100% RB	695.5	22.28	20.55	19.79	18.02	15.93	14.20	13.44	11.67
		680.5	22.44	20.73	19.97	18.18	16.09	14.38	13.62	11.83
		665.5	22.5	20.81	20.03	18.24	16.15	14.46	13.68	11.89
10MHz	1 RB high	693	23.28	21.95	20.88	18.05	16.93	15.60	14.53	11.70
		680.5	23.23	21.95	20.93	18.09	16.88	15.60	14.58	11.74
		668	22.57	21.77	20.95	18.05	16.22	15.42	14.60	11.70
	1 RB low	693	22.72	21.58	20.52	17.73	16.37	15.23	14.17	11.38
		680.5	23.53	21.99	20.66	17.66	17.18	15.64	14.31	11.31
		668	23.02	21.68	20.58	17.7	16.67	15.33	14.23	11.35
	50% RB mid	693	22.37	20.7	19.92	18.14	16.02	14.35	13.57	11.79
		680.5	22.34	20.78	19.93	18.15	15.99	14.43	13.58	11.80
		668	22.44	20.83	20.06	18.27	16.09	14.48	13.71	11.92
	100% RB	693	22.35	20.67	19.91	18.13	16.00	14.32	13.56	11.78
		680.5	22.34	20.63	20.01	18.22	15.99	14.28	13.66	11.87
		668	22.62	20.63	20.04	18.25	16.27	14.28	13.69	11.90
15MHz	1 RB high	690.5	23.1	21.51	20.81	17.98	16.75	15.16	14.46	11.63
		680.5	22.63	21.57	20.56	17.77	16.28	15.22	14.21	11.42
		670.5	23.21	21.94	20.88	18.05	16.86	15.59	14.53	11.70
	1 RB low	690.5	23.22	21.68	20.78	17.96	16.87	15.33	14.43	11.61
		680.5	22.99	21.56	20.67	17.86	16.64	15.21	14.32	11.51
		670.5	23.39	21.87	20.84	18.01	17.04	15.52	14.49	11.66
	50% RB mid	690.5	22.24	20.51	19.8	18.03	15.89	14.16	13.45	11.68
		680.5	22.32	20.56	19.79	18.02	15.97	14.21	13.44	11.67
		670.5	21.93	20.55	19.66	17.91	15.58	14.20	13.31	11.56
	100% RB	690.5	22.32	20.59	19.67	17.92	15.97	14.24	13.32	11.57
		680.5	22.26	20.62	19.94	18.16	15.91	14.27	13.59	11.81
		670.5	22.51	20.73	20.08	18.29	16.16	14.38	13.73	11.94

20MHz z	1 RB high	688	23.27	21.87	20.62	17.82	16.92	15.52	14.27	11.47
		680.5	23.08	21.85	20.7	17.89	16.73	15.50	14.35	11.54
		673	23.08	21.79	21.15	18.28	16.73	15.44	14.80	11.93
	1 RB low	688	23.27	21.76	21.05	18.19	16.92	15.41	14.70	11.84
		680.5	23.15	21.97	21.03	18.18	16.80	15.62	14.68	11.83
		673	23.05	22.04	21.01	18.15	16.70	15.69	14.66	11.80
	50% RB mid	688	22.27	20.6	19.87	18.09	15.92	14.25	13.52	11.74
		680.5	22.32	20.62	19.85	18.08	15.97	14.27	13.50	11.73
		673	22.26	20.78	19.99	18.2	15.91	14.43	13.64	11.85
	100% RB	688	22.33	20.57	19.88	18.1	15.98	14.22	13.53	11.75
		680.5	22.2	20.68	19.76	18	15.85	14.33	13.41	11.65
		673	22.28	20.72	20.01	18.22	15.93	14.37	13.66	11.87

LTE CA band 2C- EIRP
Limits: ≤33 dBm (2W)

Max EIRP: 22.20dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -1.5dBi
				Size	Offset	Size	Offset		
5MHz/20MHz	1870.8	1882.5	QPSK	1	24	1	0	23.58	22.08
				25	0	100	0	21.61	20.11
			16QAM	1	24	1	0	22.61	21.11
				25	0	100	0	20.58	19.08
			64QAM	1	24	1	0	21.59	20.09
				25	0	100	0	20.6	19.1
256QAM	1	24	1	0	18.5	17			
	25	0	100	0	18.61	17.11			
10MHz/15MHz	1872.9	1884.9	QPSK	1	49	1	0	23.53	22.03
				50	0	75	0	21.64	20.14
			16QAM	1	49	1	0	22.44	20.94
				50	0	75	0	20.65	19.15
			64QAM	1	49	1	0	21.58	20.08
				50	0	75	0	20.67	19.17
256QAM	1	49	1	0	18.53	17.03			
	50	0	75	0	18.67	17.17			
10MHz/20MHz	1870.6	1885	QPSK	1	49	1	0	23.58	22.08
				50	0	100	0	21.7	20.2
			16QAM	1	49	1	0	22.51	21.01
				50	0	100	0	20.72	19.22
			64QAM	1	49	1	0	21.62	20.12
				50	0	100	0	20.7	19.2
256QAM	1	49	1	0	18.62	17.12			
	50	0	100	0	18.69	17.19			
15MHz/10MHz	1875.1	1887.1	QPSK	1	74	1	0	23.6	22.1
				75	0	50	0	21.71	20.21
			16QAM	1	74	1	0	22.59	21.09
				75	0	50	0	20.7	19.2
			64QAM	1	74	1	0	21.63	20.13
				75	0	50	0	20.72	19.22
256QAM	1	74	1	0	18.53	17.03			
	75	0	50	0	18.71	17.21			
15MHz/15MHz	1872.5	1887.5	QPSK	1	74	1	0	23.61	22.11
				75	0	75	0	21.72	20.22
			16QAM	1	74	1	0	22.64	21.14
				75	0	75	0	20.74	19.24

			64QAM	1	74	1	0	21.63	20.13
				75	0	75	0	20.73	19.23
			256QAM	1	74	1	0	18.54	17.04
				75	0	75	0	18.7	17.2
15MHz/20MHz	1870.3	1887.4	QPSK	1	74	1	0	23.66	22.16
				75	0	100	0	21.73	20.23
			16QAM	1	74	1	0	22.48	20.98
				75	0	100	0	20.72	19.22
			64QAM	1	74	1	0	21.67	20.17
				75	0	100	0	20.75	19.25
			256QAM	1	74	1	0	18.52	17.02
				75	0	100	0	18.7	17.2
20MHz/5MHz	1877.5	1889.2	QPSK	1	99	1	0	23.7	22.2
				100	0	25	0	21.76	20.26
			16QAM	1	99	1	0	22.51	21.01
				100	0	25	0	20.74	19.24
			64QAM	1	99	1	0	21.72	20.22
				100	0	25	0	20.72	19.22
			256QAM	1	99	1	0	18.61	17.11
				100	0	25	0	18.73	17.23
20MHz/10MHz	1875.1	1889.5	QPSK	1	99	1	0	23.62	22.12
				100	0	50	0	21.76	20.26
			16QAM	1	99	1	0	22.54	21.04
				100	0	50	0	20.74	19.24
			64QAM	1	99	1	0	21.71	20.21
				100	0	50	0	20.74	19.24
			256QAM	1	99	1	0	18.59	17.09
				100	0	50	0	18.74	17.24
20MHz/15MHz	1872.6	1889.7	QPSK	1	99	1	0	23.64	22.14
				100	0	75	0	21.74	20.24
			16QAM	1	99	1	0	22.53	21.03
				100	0	75	0	20.74	19.24
			64QAM	1	99	1	0	21.58	20.08
				100	0	75	0	20.75	19.25
			256QAM	1	99	1	0	18.59	17.09
				100	0	75	0	18.7	17.2
20MHz/20MHz	1870.1	1889.9	QPSK	1	99	1	0	23.68	22.18
				100	0	100	0	21.73	20.23
			16QAM	1	99	1	0	22.57	21.07
				100	0	100	0	20.72	19.22
			64QAM	1	99	1	0	21.68	20.18
				100	0	100	0	20.73	19.23
			256QAM	1	99	1	0	18.58	17.08



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				100	0	100	0	18.66	17.16
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LTE CA band 66B- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 22.57dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -1.28dBi
				Size	Offset	Size	Offset		
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.85	22.57
				25	0	25	0	21.91	20.63
			16QAM	1	24	1	0	22.72	21.44
				25	0	25	0	20.92	19.64
			64QAM	1	24	1	0	21.74	20.46
				25	0	25	0	20.9	19.62
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	18.85	17.57
				25	0	50	0	18.88	17.6
			16QAM	1	24	1	0	23.75	22.47
				25	0	50	0	21.74	20.46
			64QAM	1	24	1	0	22.7	21.42
				25	0	50	0	20.76	19.48
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	21.75	20.47
				25	0	75	0	20.75	19.47
			16QAM	1	24	1	0	18.72	17.44
				25	0	75	0	18.73	17.45
			64QAM	1	24	1	0	23.75	22.47
				25	0	75	0	21.75	20.47
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	22.64	21.36
				50	0	25	0	20.74	19.46
			16QAM	1	49	1	0	21.69	20.41
				50	0	25	0	20.73	19.45
			64QAM	1	49	1	0	18.68	17.4
				50	0	25	0	18.69	17.41
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.61	22.33
				50	0	50	0	21.74	20.46
			16QAM	1	49	1	0	22.59	21.31
				50	0	50	0	20.73	19.45
			64QAM	1	49	1	0	21.73	20.45
				50	0	50	0	20.74	19.46
15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	18.63	17.35
				75	0	25	0	18.73	17.45
			16QAM	1	74	1	0	23.67	22.39
				75	0	25	0	21.75	20.47
			64QAM	1	74	1	0	22.5	21.22
				75	0	25	0	20.74	19.46

LTE CA band 66C- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 22.43dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -1.28dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	23.64	22.36
				25	0	100	0	21.73	20.45
			16QAM	1	24	1	0	22.63	21.35
				25	0	100	0	20.7	19.42
			64QAM	1	24	1	0	21.53	20.25
				25	0	100	0	20.71	19.43
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	18.64	17.36
				50	0	75	0	18.69	17.41
			16QAM	1	49	1	0	23.63	22.35
				50	0	75	0	21.72	20.44
			64QAM	1	49	1	0	22.56	21.28
				50	0	75	0	20.73	19.45
10MHz/ 20MHz	1745.6	1760	QPSK	1	49	1	0	21.65	20.37
				50	0	100	0	20.72	19.44
			16QAM	1	49	1	0	18.51	17.23
				50	0	100	0	18.69	17.41
			64QAM	1	49	1	0	23.71	22.43
				50	0	100	0	21.73	20.45
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	22.58	21.3
				75	0	50	0	20.74	19.46
			16QAM	1	74	1	0	21.69	20.41
				75	0	50	0	20.71	19.43
			64QAM	1	74	1	0	18.56	17.28
				75	0	50	0	18.7	17.42
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	23.6	22.32
				75	0	75	0	21.73	20.45
			16QAM	1	74	1	0	22.57	21.29
				75	0	75	0	20.71	19.43
			64QAM	1	74	1	0	21.64	20.36
				75	0	75	0	20.73	19.45
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	18.63	17.35
				75	0	100	0	18.68	17.4
			16QAM	1	74	1	0	23.64	22.36
				75	0	100	0	21.73	20.45
			64QAM	1	74	1	0	22.48	21.2
				75	0	100	0	20.7	19.42

20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	21.66	20.38
				100	0	25	0	20.75	19.47
			16QAM	1	99	1	0	18.6	17.32
				100	0	25	0	18.75	17.47
			64QAM	1	99	1	0	23.68	22.4
				100	0	25	0	21.73	20.45
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	22.55	21.27
				100	0	50	0	20.74	19.46
			16QAM	1	99	1	0	21.64	20.36
				100	0	50	0	20.73	19.45
			64QAM	1	99	1	0	18.58	17.3
				100	0	50	0	18.72	17.44
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	23.57	22.29
				100	0	75	0	21.73	20.45
			16QAM	1	99	1	0	22.43	21.15
				100	0	75	0	20.72	19.44
			64QAM	1	99	1	0	21.65	20.37
				100	0	75	0	20.71	19.43
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	18.63	17.35
				100	0	100	0	18.68	17.4
			16QAM	1	99	1	0	23.69	22.41
				100	0	100	0	21.75	20.47
			64QAM	1	99	1	0	22.64	21.36
				100	0	100	0	20.76	19.48

Note: Expanded measurement uncertainty is $U = 0.578$ dB, $k = 2$.

A.2 Emission Limit

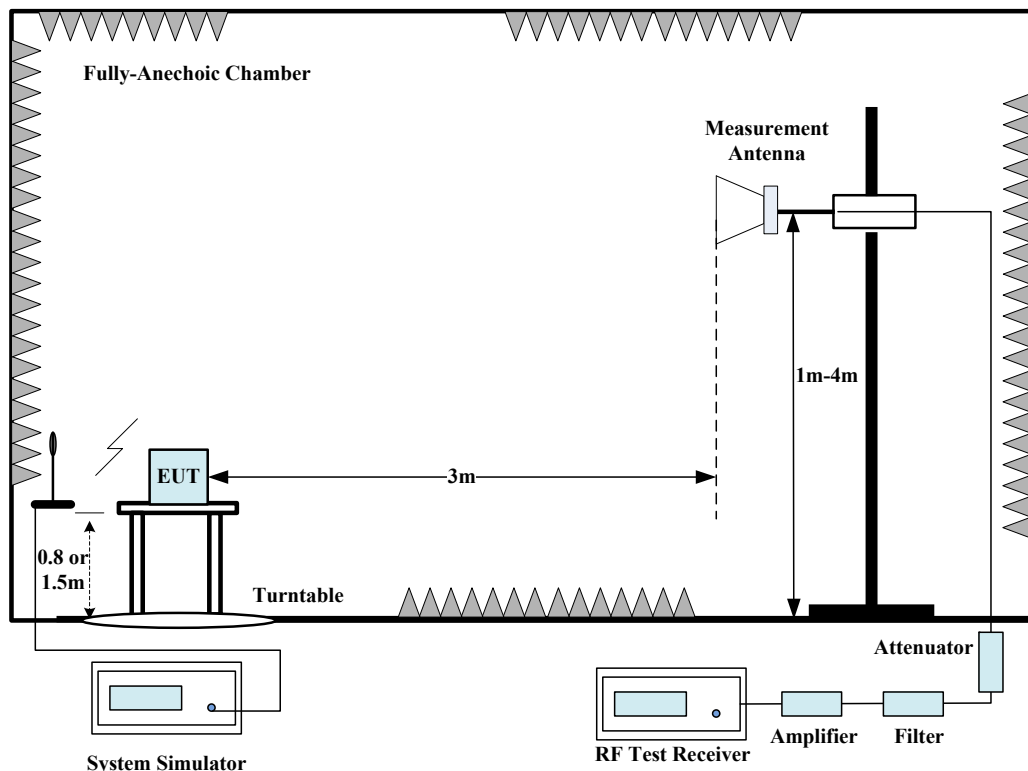
A.2.1 Measurement Method

The measurement procedures in C63.26 are used.

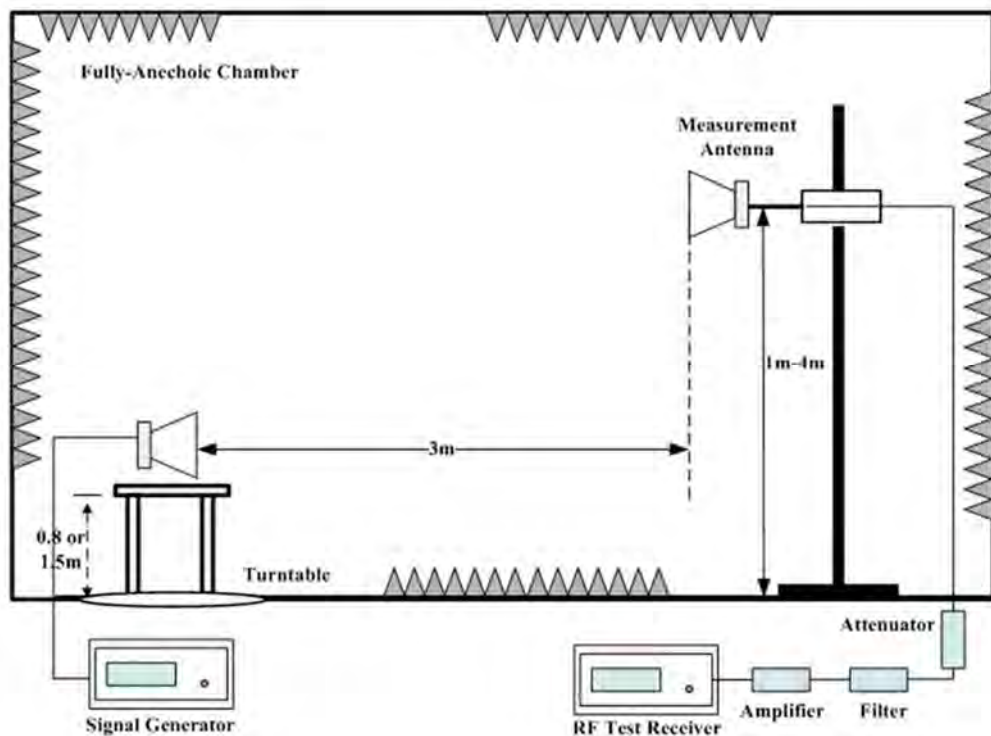
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and 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 7: 27.53(m)(4) specifies that For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all

frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 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 12/71: 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.

FDD Band 25: Part 24.238 specify 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 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 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.

TDD Band 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 than $43 + 10 \log (P)$ 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 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.

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

Test note

Investigation has been done on all modes and modulations/data rates. In total, three EUT elevation positions are measured. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

A.2.6 Measurement Result
LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-55.38	5.15	11.33	-49.20	-25.00	24.20	H
7520.50	-49.93	7.71	10.24	-47.40	-25.00	22.40	V
10014.50	-49.08	9.35	11.79	-46.64	-25.00	21.64	V
12513.50	-47.74	12.37	13.56	-46.55	-25.00	21.55	H
15001.00	-46.93	14.76	14.60	-47.09	-25.00	22.09	H
17519.50	-35.47	19.70	13.12	-42.05	-25.00	17.05	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-53.86	5.30	11.60	-47.56	-25.00	22.56	H
7592.00	-50.45	7.56	10.30	-47.71	-25.00	22.71	H
10146.50	-49.50	9.72	11.79	-47.43	-25.00	22.43	H
12679.50	-48.92	11.71	13.14	-47.49	-25.00	22.49	H
15216.50	-45.67	15.69	15.03	-46.33	-25.00	21.33	H
17748.50	-36.59	19.56	13.45	-42.70	-25.00	17.70	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.50	-55.51	5.55	11.60	-49.46	-25.00	24.46	H
7703.00	-53.40	6.72	10.61	-49.51	-25.00	24.51	H
10270.50	-46.41	10.76	11.90	-45.27	-25.00	20.27	H
12845.50	-47.48	12.99	12.91	-47.56	-25.00	22.56	V
15418.50	-47.44	14.92	15.44	-46.92	-25.00	21.92	H
17964.00	-35.35	20.01	13.47	-41.89	-25.00	16.89	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2109.50	-53.12	3.69	7.95	2.15	-51.01	-13.00	38.01	H
2810.50	-48.88	5.20	10.42	2.15	-45.81	-13.00	32.81	V
4911.00	-56.95	4.93	11.04	2.15	-52.99	-13.00	39.99	V
5590.00	-56.18	5.49	11.28	2.15	-52.54	-13.00	39.54	H
6290.50	-55.44	6.08	10.80	2.15	-52.87	-13.00	39.87	V
7008.00	-49.89	7.68	10.42	2.15	-49.30	-13.00	36.30	H

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2123.50	-52.99	3.72	8.18	2.15	-50.68	-13.00	37.68	H
2835.00	-49.38	5.04	10.47	2.15	-46.10	-13.00	33.10	H
3538.00	-55.71	3.28	10.25	2.15	-50.89	-13.00	37.89	H
4941.00	-57.59	4.90	11.16	2.15	-53.48	-13.00	40.48	H
6363.00	-55.15	5.95	10.93	2.15	-52.32	-13.00	39.32	V
7061.00	-51.42	6.81	10.46	2.15	-49.92	-13.00	36.92	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2146.50	-52.58	3.71	8.54	2.15	-49.90	-13.00	36.90	H
2873.50	-48.74	5.41	10.64	2.15	-45.66	-13.00	32.66	H
3577.00	-55.68	3.07	10.41	2.15	-50.49	-13.00	37.49	H
5708.50	-56.63	5.66	11.38	2.15	-53.06	-13.00	40.06	H
6424.50	-55.85	5.85	10.90	2.15	-52.95	-13.00	39.95	V
7162.00	-52.03	6.73	10.13	2.15	-50.78	-13.00	37.78	H

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3698.50	-62.25	3.46	10.40	-55.31	-13.00	42.31	H
5552.00	-50.55	5.32	11.20	-44.67	-13.00	31.67	V
7414.50	-50.74	8.01	10.10	-48.65	-13.00	35.65	H
9267.00	-49.84	8.85	11.70	-46.99	-13.00	33.99	H
11101.00	-47.97	9.72	12.60	-45.09	-13.00	32.09	H
12947.50	-48.69	12.48	12.75	-48.42	-13.00	35.42	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3773.50	-62.20	3.91	10.11	-56.00	-13.00	43.00	H
5647.00	-50.99	5.60	11.39	-45.20	-13.00	32.20	V
7541.50	-50.61	7.47	10.28	-47.80	-13.00	34.80	V
9413.50	-49.97	9.06	11.55	-47.48	-13.00	34.48	V
11297.00	-47.83	10.61	12.60	-45.84	-13.00	32.84	H
13166.50	-45.24	13.19	12.53	-45.90	-13.00	32.90	V

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3835.50	-61.59	3.91	9.93	-55.57	-13.00	42.57	V
5743.00	-52.62	5.86	11.31	-47.17	-13.00	34.17	H
7648.50	-53.39	6.84	10.40	-49.83	-13.00	36.83	V
9573.00	-50.69	8.64	11.90	-47.43	-13.00	34.43	V
11471.00	-48.11	12.33	12.53	-47.91	-13.00	34.91	H
13396.00	-45.27	12.45	12.40	-45.32	-13.00	32.32	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2481.00	-52.10	4.34	10.34	2.15	-48.25	-13.00	35.25	V
4935.00	-57.06	4.89	11.14	2.15	-52.96	-13.00	39.96	V
5759.00	-55.98	5.82	11.25	2.15	-52.70	-13.00	39.70	H
6602.50	-52.05	7.07	10.31	2.15	-50.96	-13.00	37.96	V
7435.00	-47.32	7.89	10.10	2.15	-47.26	-13.00	34.26	V
8232.50	-50.56	7.60	11.20	2.15	-49.11	-13.00	36.11	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2520.00	-52.21	4.31	10.30	2.15	-48.37	-13.00	35.37	V
4173.00	-55.98	4.01	10.05	2.15	-52.09	-13.00	39.09	H
5859.00	-56.75	5.61	10.96	2.15	-53.55	-13.00	40.55	V
6679.00	-52.82	6.36	10.46	2.15	-50.87	-13.00	37.87	V
7543.00	-48.08	7.47	10.29	2.15	-47.41	-13.00	34.41	H
8370.00	-50.20	8.18	11.30	2.15	-49.23	-13.00	36.23	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2559.00	-51.32	4.52	10.30	2.15	-47.69	-13.00	34.69	V
5095.00	-58.22	5.30	11.60	2.15	-54.07	-13.00	41.07	H
5927.00	-55.55	6.07	10.75	2.15	-53.02	-13.00	40.02	H
6781.00	-52.86	6.40	10.36	2.15	-51.05	-13.00	38.05	H
7631.00	-50.32	6.72	10.36	2.15	-48.83	-13.00	35.83	H
8472.50	-49.10	8.03	11.30	2.15	-47.98	-13.00	34.98	V

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26697

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2453.00	-52.05	4.46	10.39	2.15	-48.27	-13.00	35.27	H
4900.50	-57.72	4.87	11.00	2.15	-53.74	-13.00	40.74	H
5707.50	-56.50	5.67	11.38	2.15	-52.94	-13.00	39.94	H
6524.00	-54.18	6.27	10.60	2.15	-52.00	-13.00	39.00	V
7340.00	-49.05	7.66	9.90	2.15	-48.96	-13.00	35.96	V
8149.50	-49.49	8.18	11.10	2.15	-48.72	-13.00	35.72	V

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26740

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2456.50	-51.49	4.43	10.39	2.15	-47.68	-13.00	34.68	V
4915.50	-57.35	4.96	11.06	2.15	-53.40	-13.00	40.40	V
5734.00	-56.68	5.88	11.33	2.15	-53.38	-13.00	40.38	H
6562.00	-53.67	7.42	10.53	2.15	-52.71	-13.00	39.71	H
7366.50	-48.99	7.47	9.97	2.15	-48.64	-13.00	35.64	V
8186.50	-50.59	7.29	11.17	2.15	-48.86	-13.00	35.86	V

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26783

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2469.50	-51.78	4.32	10.36	2.15	-47.89	-13.00	34.89	V
4945.00	-57.24	4.90	11.18	2.15	-53.11	-13.00	40.11	H
5766.00	-57.00	5.67	11.20	2.15	-53.62	-13.00	40.62	H
6576.50	-53.20	7.30	10.44	2.15	-52.21	-13.00	39.21	H
7417.00	-48.42	8.00	10.10	2.15	-48.47	-13.00	35.47	V
8222.50	-51.13	7.53	11.20	2.15	-49.61	-13.00	36.61	H

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-44.24	5.17	11.29	-38.12	-25.00	13.12	V
7499.50	-50.49	7.70	10.20	-47.99	-25.00	22.99	V
10004.00	-49.56	9.36	11.80	-47.12	-25.00	22.12	H
12506.00	-48.13	12.36	13.58	-46.91	-25.00	21.91	H
14995.00	-47.13	14.76	14.58	-47.31	-25.00	22.31	V
17496.00	-35.67	19.73	13.10	-42.30	-25.00	17.30	V

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.50	-53.62	5.75	11.67	-47.70	-25.00	22.70	V
7793.50	-52.88	7.31	10.79	-49.40	-25.00	24.40	V
10384.50	-46.01	10.69	11.98	-44.72	-25.00	19.72	V
12954.00	-48.64	12.50	12.75	-48.39	-25.00	23.39	V
15565.00	-46.89	16.67	15.60	-47.96	-25.00	22.96	H
17995.50	-35.54	19.94	13.41	-42.07	-25.00	17.07	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.50	-51.21	5.74	11.65	-45.30	-25.00	20.30	H
8063.00	-49.11	7.86	11.13	-45.84	-25.00	20.84	H
10739.00	-48.82	9.87	12.14	-46.55	-25.00	21.55	V
13444.00	-44.59	12.57	12.36	-44.80	-25.00	19.80	V
16112.50	-44.51	17.09	15.10	-46.50	-25.00	21.50	H
17990.00	-36.15	19.96	13.42	-42.69	-25.00	17.69	H

LTE Band 66, 1.4MHz, QPSK, Channel 131979

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.00	-65.32	5.38	8.01	-62.69	-13.00	49.69	H
5132.00	-60.04	6.85	10.08	-56.81	-13.00	43.81	V
6851.50	-64.50	7.82	11.42	-60.90	-13.00	47.90	H
8573.00	-62.48	8.54	13.01	-58.01	-13.00	45.01	V
10317.50	-59.48	9.67	13.03	-56.12	-13.00	43.12	V
11923.00	-58.70	10.41	13.02	-56.09	-13.00	43.09	H

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-62.55	5.50	8.18	-59.87	-13.00	46.87	H
5235.00	-58.28	7.00	10.23	-55.05	-13.00	42.05	H
7004.00	-62.71	8.29	11.60	-59.40	-13.00	46.40	V
8743.50	-62.17	8.49	13.05	-57.61	-13.00	44.61	H
10453.50	-58.30	9.72	13.08	-54.94	-13.00	41.94	H
12256.00	-59.93	10.02	13.10	-56.85	-13.00	43.85	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.50	-63.43	5.91	8.28	-61.06	-13.00	48.06	H
5338.00	-58.03	6.96	10.37	-54.62	-13.00	41.62	V
7079.00	-63.57	8.19	11.69	-60.07	-13.00	47.07	V
8857.00	-62.37	8.77	13.07	-58.07	-13.00	45.07	V
10725.00	-61.11	9.37	13.15	-57.33	-13.00	44.33	H
12438.50	-60.35	10.34	13.18	-57.51	-13.00	44.51	V

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1331.50	-50.49	1.84	7.45	2.15	-47.03	-13.00	34.03	H
1995.50	-54.25	3.38	7.74	2.15	-52.04	-13.00	39.04	V
2648.00	-50.29	4.79	10.20	2.15	-47.03	-13.00	34.03	V
4658.50	-58.01	5.02	10.92	2.15	-54.26	-13.00	41.26	H
6001.00	-54.86	6.21	10.69	2.15	-52.53	-13.00	39.53	H
6657.50	-53.70	6.22	10.42	2.15	-51.65	-13.00	38.65	V

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2056.00	-53.23	3.60	7.71	2.15	-51.27	-13.00	38.27	V
2728.50	-49.49	4.88	10.26	2.15	-46.26	-13.00	33.26	V
4758.50	-57.19	4.81	10.98	2.15	-53.17	-13.00	40.17	H
5434.50	-57.68	5.31	11.39	2.15	-53.75	-13.00	40.75	H
6135.50	-54.91	6.13	10.67	2.15	-52.52	-13.00	39.52	V
6790.50	-53.31	6.39	10.38	2.15	-51.47	-13.00	38.47	V

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2079.50	-53.28	3.53	7.76	2.15	-51.20	-13.00	38.20	V
2781.50	-49.24	4.89	10.36	2.15	-45.92	-13.00	32.92	H
4169.50	-57.20	3.99	10.04	2.15	-53.30	-13.00	40.30	H
5565.50	-57.27	5.38	11.23	2.15	-53.57	-13.00	40.57	V
6252.00	-55.69	6.15	10.80	2.15	-53.19	-13.00	40.19	V
6952.00	-53.05	6.47	10.40	2.15	-51.27	-13.00	38.27	H

LTE Band 2C, QPSK, Channel 18675+18825

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3732.19	-70.61	6.35	10.37	-66.59	-13.00	53.59	V
5598.28	-67.12	7.23	11.20	-63.15	-13.00	50.15	H
7460.63	-60.69	8.28	10.22	-58.75	-13.00	45.75	V
9329.53	-59.51	9.12	11.66	-56.97	-13.00	43.97	H
11197.50	-59.86	9.41	12.80	-56.47	-13.00	43.47	H
13062.66	-57.71	10.76	12.70	-55.77	-13.00	42.77	V

LTE Band 2C, QPSK, Channel 18825+18975

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3764.06	-69.90	6.25	10.30	-65.85	-13.00	52.85	V
5639.06	-67.04	7.27	11.20	-63.11	-13.00	50.11	H
7524.38	-60.83	8.29	10.30	-58.82	-13.00	45.82	V
9398.44	-59.85	9.04	11.60	-57.29	-13.00	44.29	H
11280.47	-58.68	9.88	12.80	-55.76	-13.00	42.76	V
13163.44	-57.33	10.66	12.64	-55.35	-13.00	42.35	H

LTE Band 2C, QPSK, Channel 18975+19125

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3790.31	-69.47	6.17	10.30	-65.34	-13.00	52.34	H
5682.66	-67.08	7.28	11.20	-63.16	-13.00	50.16	V
7582.50	-61.31	8.05	10.37	-58.99	-13.00	45.99	H
9476.25	-59.93	9.42	11.70	-57.65	-13.00	44.65	V
11366.72	-58.26	10.04	12.73	-55.57	-13.00	42.57	V
13269.38	-56.63	10.55	12.60	-54.58	-13.00	41.58	H

LTE Band 66B, QPSK, Channel 131997+132045

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5142.66	-57.65	5.53	11.60	-51.58	-13.00	38.58	V
10263.28	-58.24	10.81	11.90	-57.15	-13.00	44.15	H
11986.88	-58.06	12.22	13.07	-57.21	-13.00	44.21	H
13693.12	-54.29	13.03	12.20	-55.12	-13.00	42.12	H
15426.56	-57.26	14.94	15.45	-56.75	-13.00	43.75	H
17135.62	-45.03	20.07	13.46	-51.64	-13.00	38.64	H

LTE Band 66B, QPSK, Channel 132398+132446

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
8731.88	-61.37	8.44	11.10	-58.71	-13.00	45.71	H
10479.38	-57.87	10.36	11.92	-56.31	-13.00	43.31	H
12216.56	-58.52	12.17	13.40	-57.29	-13.00	44.29	V
13951.41	-53.43	14.68	12.15	-55.96	-13.00	42.96	H
15715.78	-54.82	16.62	15.52	-55.92	-13.00	42.92	V
17437.03	-44.56	19.25	13.04	-50.77	-13.00	37.77	H

LTE Band 66B, QPSK, Channel 132599+132647

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5323.59	-58.61	5.08	11.75	-51.94	-13.00	38.94	H
10661.25	-59.90	10.08	12.06	-57.92	-13.00	44.92	V
12438.28	-58.00	13.03	13.48	-57.55	-13.00	44.55	V
14207.81	-55.32	13.00	12.61	-55.71	-13.00	42.71	H
15987.66	-53.51	17.57	15.42	-55.66	-13.00	42.66	V
17785.78	-44.83	19.55	13.49	-50.89	-13.00	37.89	H

LTE Band 66C, QPSK, Channel 132047+132197

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3435.00	-68.01	5.40	8.04	-65.37	-13.00	52.37	V
5167.97	-48.90	6.91	10.14	-45.67	-13.00	32.67	V
6850.78	-64.00	7.82	11.42	-60.40	-13.00	47.40	V
8598.75	-62.62	8.50	13.02	-58.10	-13.00	45.10	H
10402.03	-59.29	9.80	13.06	-56.03	-13.00	43.03	V
12036.56	-59.95	10.16	13.01	-57.10	-13.00	44.10	H

LTE Band 66C, QPSK, Channel 132497+132497

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3527.81	-67.80	5.59	8.24	-65.15	-13.00	52.15	V
5257.97	-56.15	7.00	10.26	-52.89	-13.00	39.89	V
7072.03	-63.26	8.20	11.69	-59.77	-13.00	46.77	H
8812.03	-62.32	8.68	13.06	-57.94	-13.00	44.94	V
10479.38	-59.20	9.68	13.09	-55.79	-13.00	42.79	V
12247.03	-59.19	10.03	13.10	-56.12	-13.00	43.12	V

LTE Band 66C, QPSK, Channel 132447+132597

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3583.13	-67.30	6.16	8.32	-65.14	-13.00	52.14	V
5287.97	-53.88	6.99	10.30	-50.57	-13.00	37.57	H
7050.47	-63.05	8.23	11.66	-59.62	-13.00	46.62	H
8787.66	-62.28	8.62	13.06	-57.84	-13.00	44.84	V
10587.19	-60.12	9.33	13.12	-56.33	-13.00	43.33	V
12375.00	-59.06	10.33	13.15	-56.24	-13.00	43.24	H

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

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Test item	Frequency ranges	Measurement uncertainty (k=2)
Radiated Emission	30MHz-1GHz	2.12dB
	1GHz-18GHz	3.10dB
	18GHz-40GHz	3.44dB

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

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	3.87	2500.545	2569.423	9.47	0.0037
50					
40					
30					
10					
0					
-10					
-20					
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.545	2569.423	0.86	0.0003
4.45				8.77	0.0035

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	3.87	699.481	715.519	-0.66	0.0009
50					
40					
30					
10					
0					
-10					
-20					
-30					

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	4.11	0.0058
4.45				-0.11	0.0002

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	3.87	1850.801	1914.167		
50				6.67	0.0035
40				6.34	0.0034
30				7.40	0.0039
10				6.08	0.0032
0				6.62	0.0035
-10				6.78	0.0036
-20				8.17	0.0043
-30				6.52	0.0035

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.801	1914.167	0.20	0.0001
4.45				6.91	0.0037

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	3.87	814.385	823.611		
50				-0.36	0.0004
40				-0.54	0.0007
30				-0.17	0.0002
10				0.80	0.0010
0				-0.37	0.0005
-10				0.20	0.0002
-20				-4.45	0.0054
-30				-0.47	0.0006

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.385	823.611	0.04	0.0000
4.45				-4.89	0.0060

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	3.87	824.553	848.447		
50				-1.10	0.0013
40				4.26	0.0051
30				-0.49	0.0006
10				5.12	0.0061
0				-0.49	0.0006
-10				-0.72	0.0009
-20				4.42	0.0053
-30				4.06	0.0049

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.553	848.447	-0.72	0.0009
4.45				-0.79	0.0009

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	3.87	2496.353	2689.551		
50				0.56	0.0002
40				9.18	0.0035
30				-1.82	0.0007
10				-0.23	0.0001
0				9.00	0.0035
-10				-0.41	0.0002
-20				-0.44	0.0002
-30				10.17	0.0039

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.353	2689.551	10.46	0.0040
4.45				-3.53	0.0014

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	3.87	1710.801	1779.199		
50				-6.21	0.0036
40				0.24	0.0001
30				0.24	0.0001
10				-7.31	0.0042
0				0.24	0.0001
-10				-0.83	0.0005
-20				0.07	0.0000
-30				0.00	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.801	1779.199	-6.44	0.0037
4.45				-5.87	0.0034

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	3.87	663.994	697.006		
50				5.01	0.0074
40				0.43	0.0006
30				0.00	0.0000
10				6.11	0.0090
0				0.14	0.0002
-10				0.43	0.0006
-20				4.65	0.0068
-30				0.66	0.0010

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	5.16	0.0076
4.45				5.15	0.0076

LTE CA band 2C, 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	3.87	1850.520	1909.480		
50				0.06	0.0000
40				0.07	0.0000
30				-0.64	0.0003
10				0.90	0.0005
0				0.66	0.0003
-10				0.87	0.0005
-20				0.46	0.0002
-30				0.79	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.520	1909.480	0.56	0.0003
4.45				1.36	0.0007

LTE CA band 66B, 10MHz+10MHz 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	3.87	1710.300	1779.700		
50				0.01	0.0000
40				-0.63	0.0004
30				-0.06	0.0000
10				-0.86	0.0005
0				-0.31	0.0002
-10				-0.31	0.0002
-20				-0.36	0.0002
-30				0.37	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.300	1779.700	-0.52	0.0003
4.45				-0.74	0.0004

LTE CA band 66C, 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	3.87	1710.460	1779.360		
50				0.14	0.0001
40				0.36	0.0002
30				0.77	0.0004
10				0.54	0.0003
0				0.53	0.0003
-10				0.64	0.0004
-20				0.20	0.0001
-30				0.73	0.0004

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.460	1779.360	0.90	0.0005
4.45				0.66	0.0004

Note: Expanded measurement uncertainty is $U = 0.01 \text{ PPM}$, $k = 2$.

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.

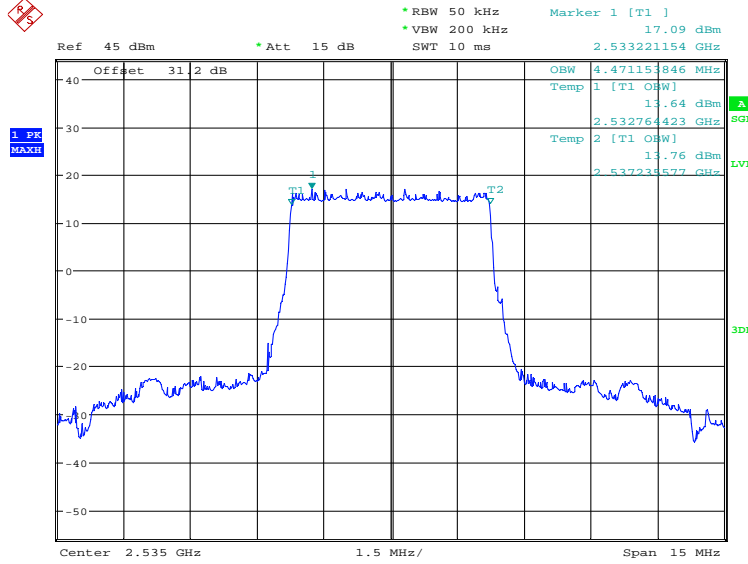
The measurement method is from ANSI C63.26:

- 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.

LTE band 7, 5MHz (99%)

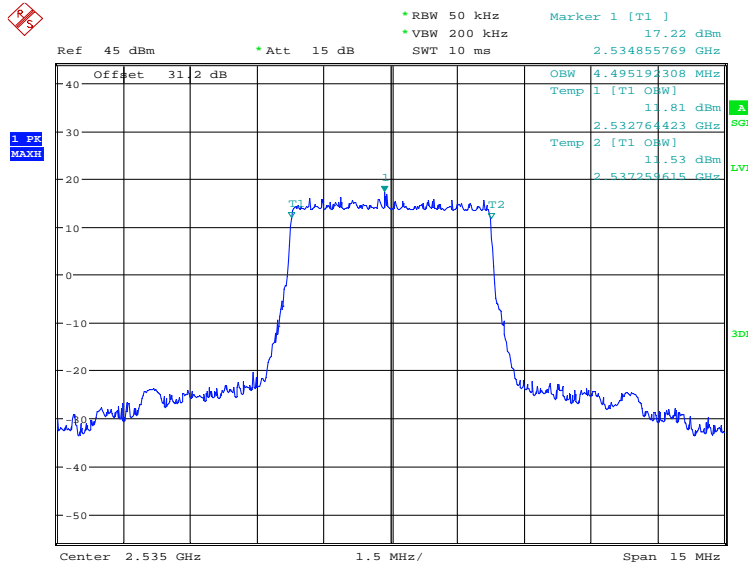
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 1.AUG.2024 11:06:16

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

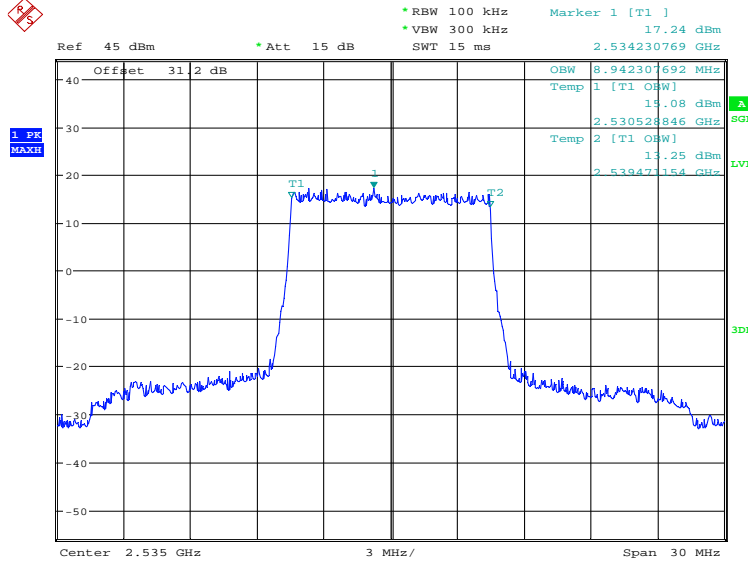


Date: 1.AUG.2024 11:06:56

LTE band 7, 10MHz (99%)

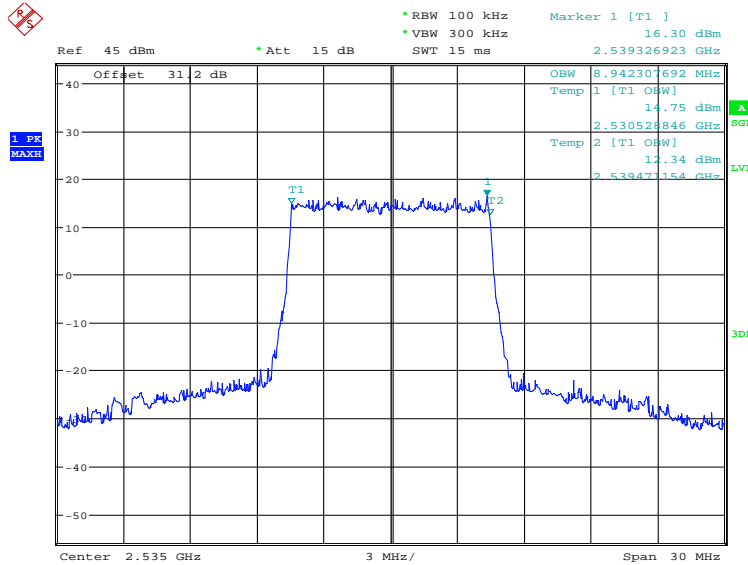
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 1.AUG.2024 11:07:39

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

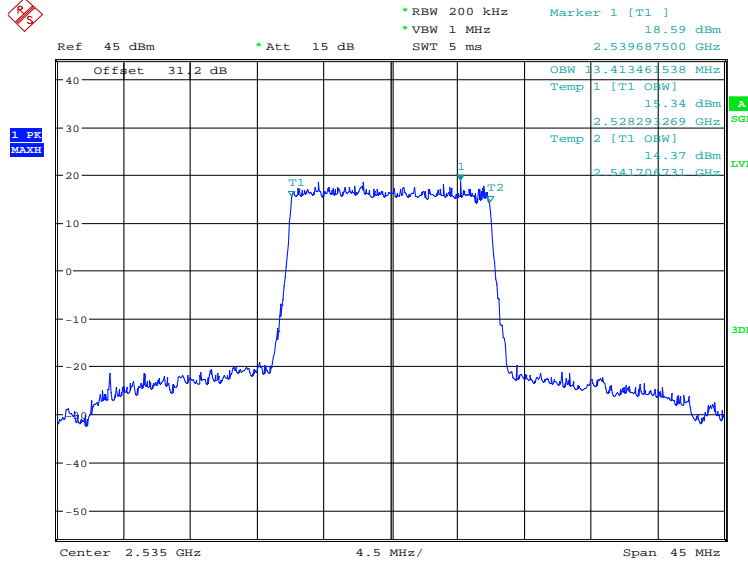


Date: 1.AUG.2024 11:08:19

LTE band 7, 15MHz (99%)

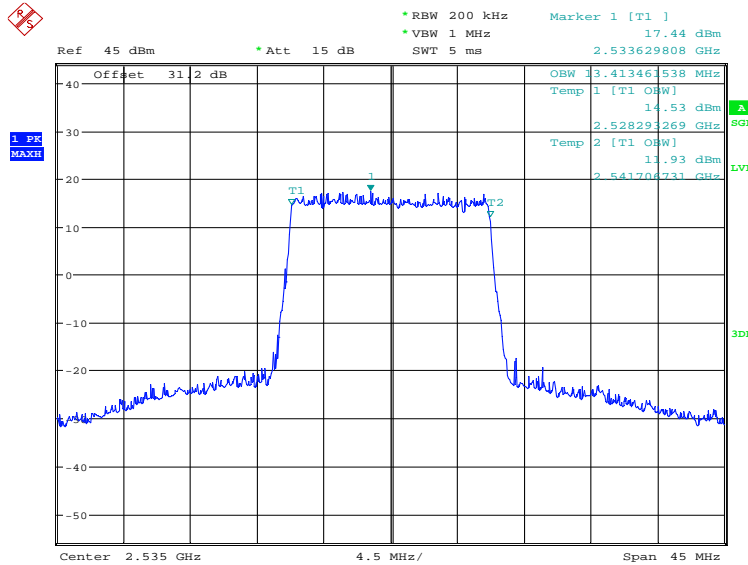
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13413.46	13413.46

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



Date: 1.AUG.2024 11:09:03

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

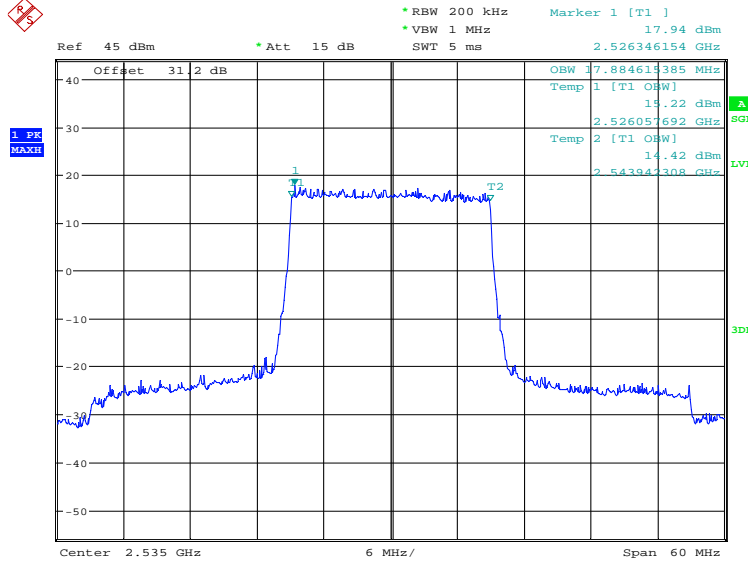


Date: 1.AUG.2024 11:09:43

LTE band 7, 20MHz (99%)

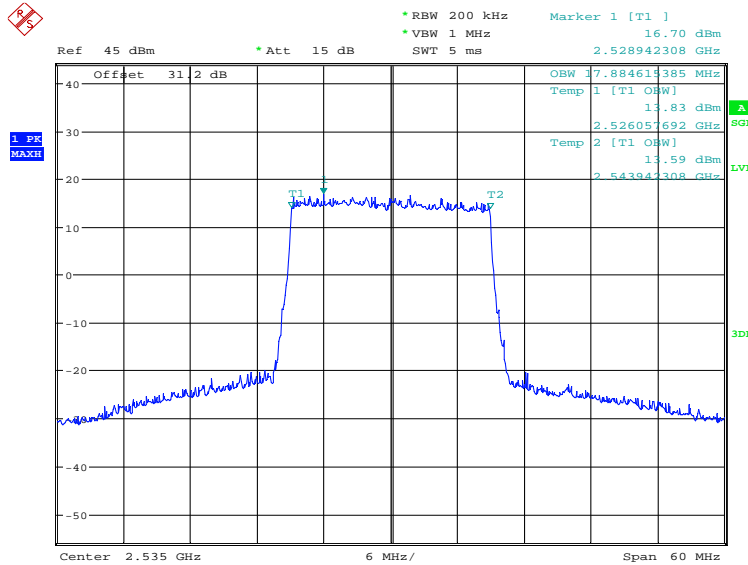
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17884.62	17884.62

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



Date: 1.AUG.2024 11:10:26

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

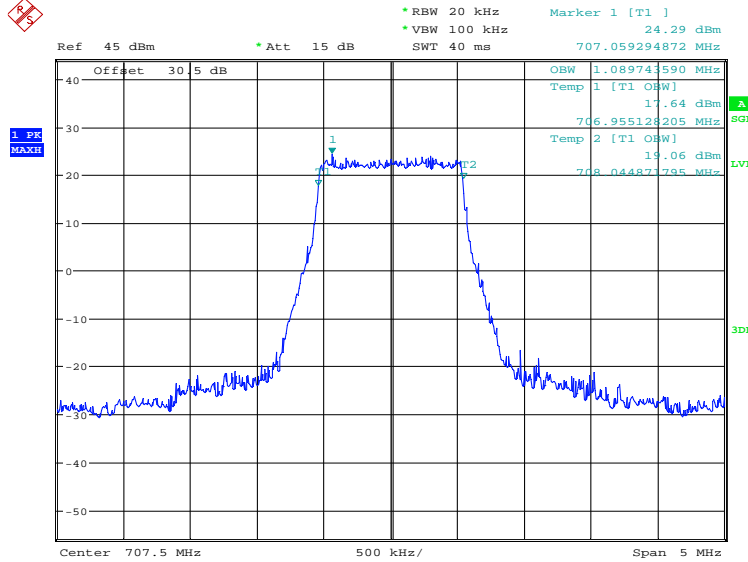


Date: 1.AUG.2024 11:11:06

LTE band 12, 1.4MHz (99%)

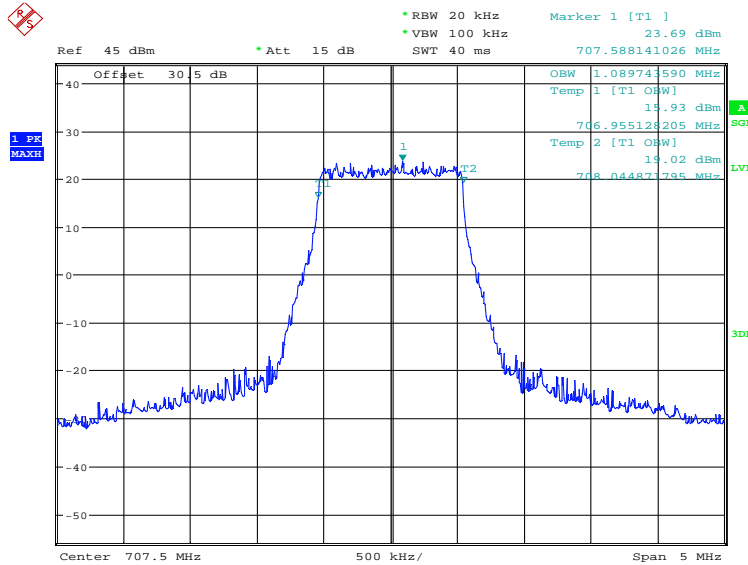
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1089.74

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



Date: 29.JUL.2024 14:36:24

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

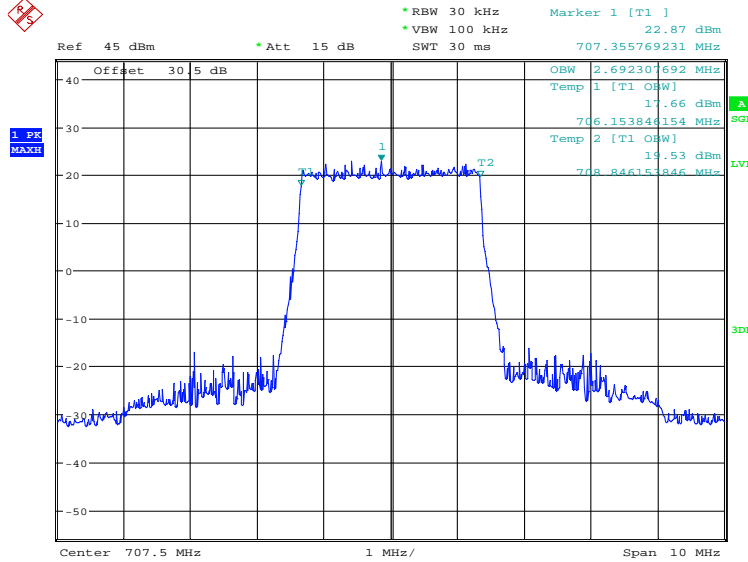


Date: 29.JUL.2024 14:37:04

LTE band 12, 3MHz (99%)

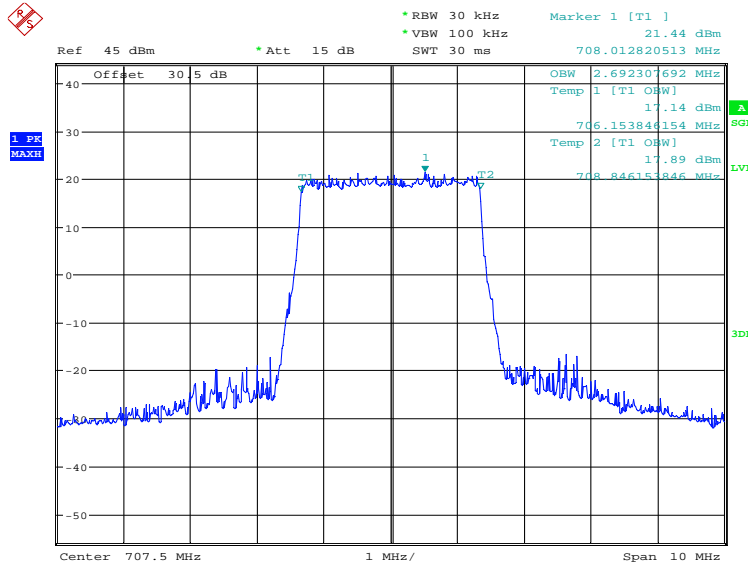
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 29.JUL.2024 14:37:45

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

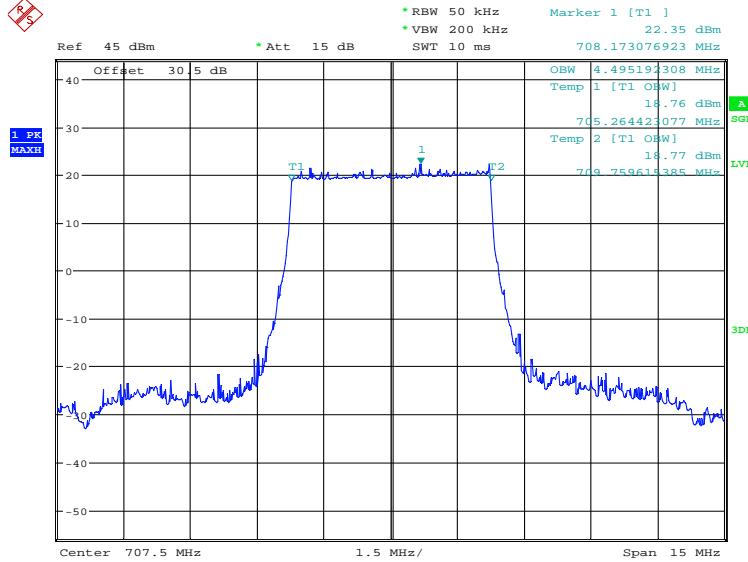


Date: 29.JUL.2024 14:38:25

LTE band 12, 5MHz (99%)

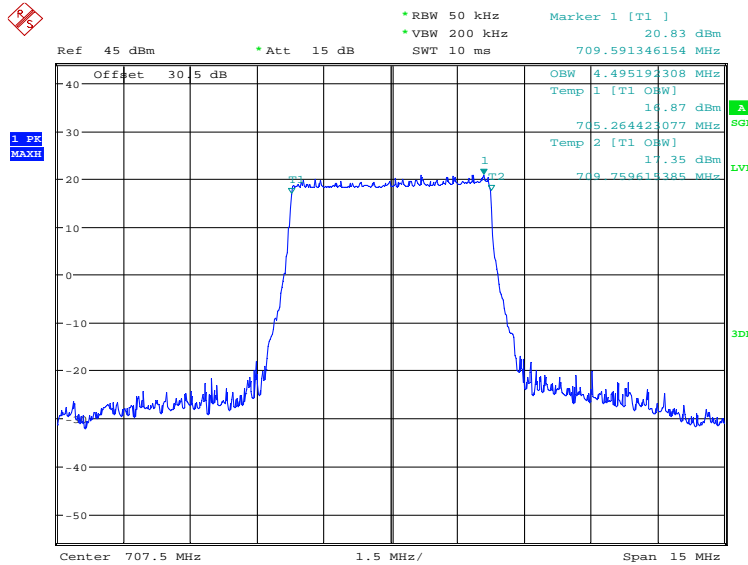
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 29.JUL.2024 14:39:07

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

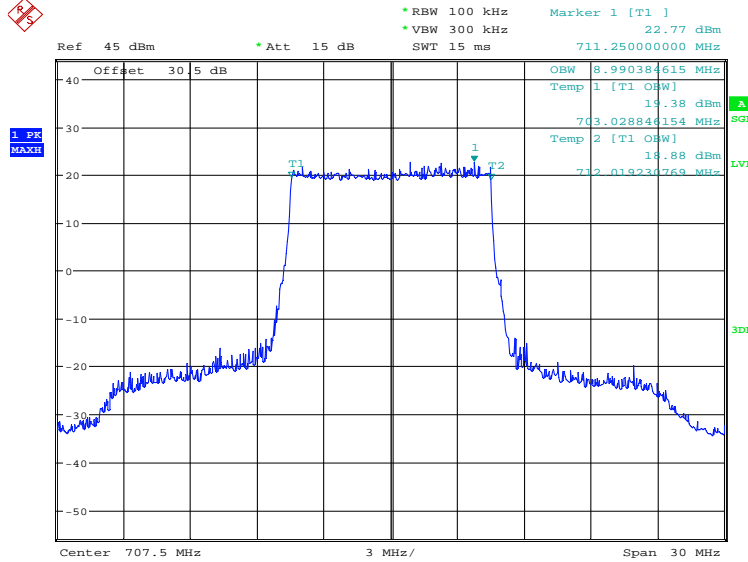


Date: 29.JUL.2024 14:39:47

LTE band 12, 10MHz (99%)

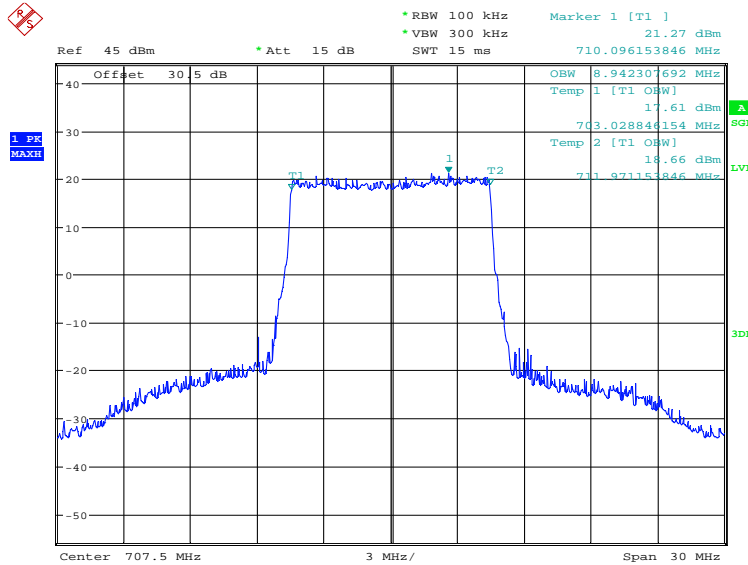
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 29.JUL.2024 14:40:29

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

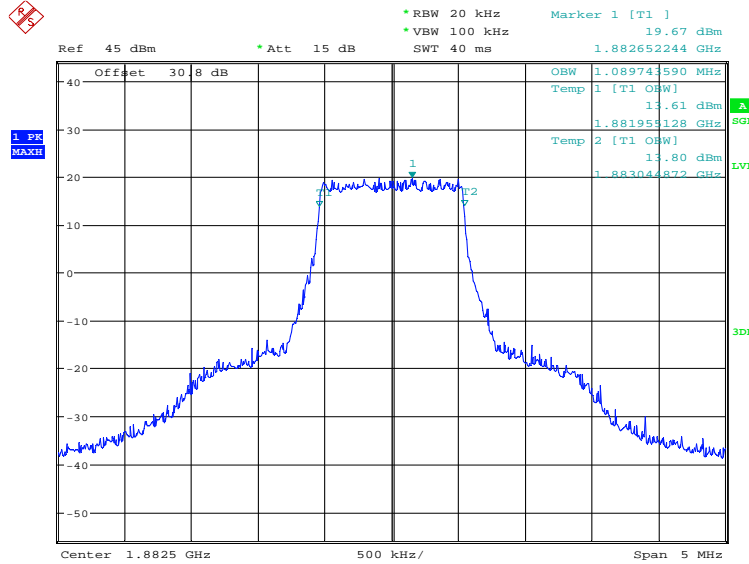


Date: 29.JUL.2024 14:41:09

LTE band 25, 1.4MHz (99%)

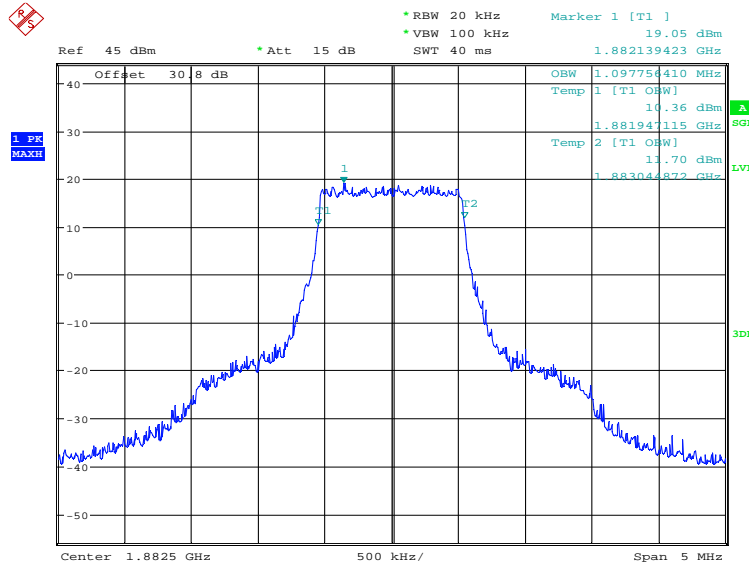
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 30.JUL.2024 08:42:05

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

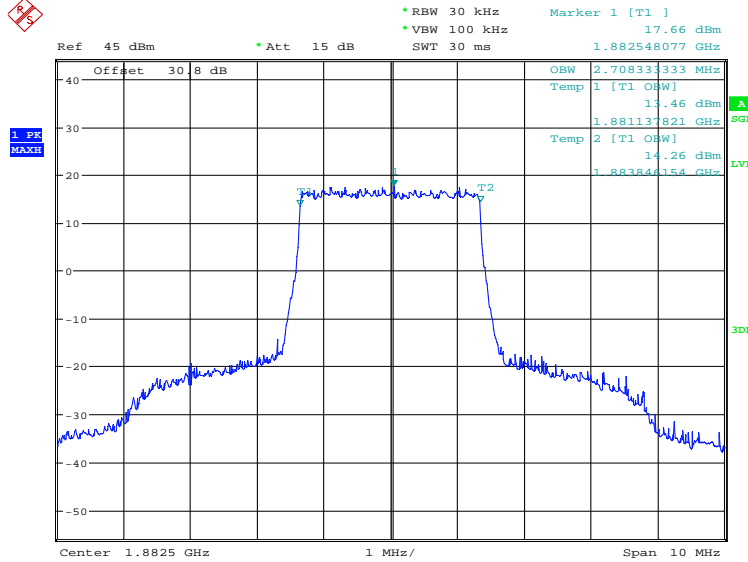


Date: 30.JUL.2024 08:42:45

LTE band 25, 3MHz (99%)

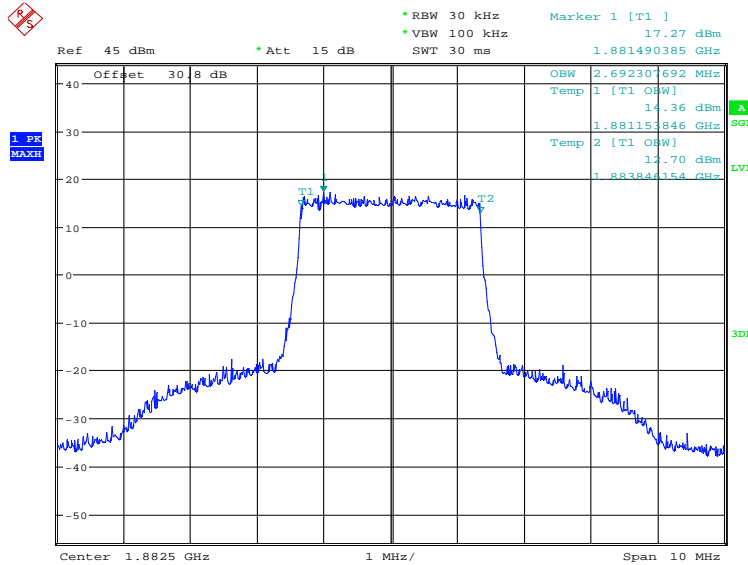
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2708.33	2692.31

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



Date: 30.JUL.2024 08:43:26

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

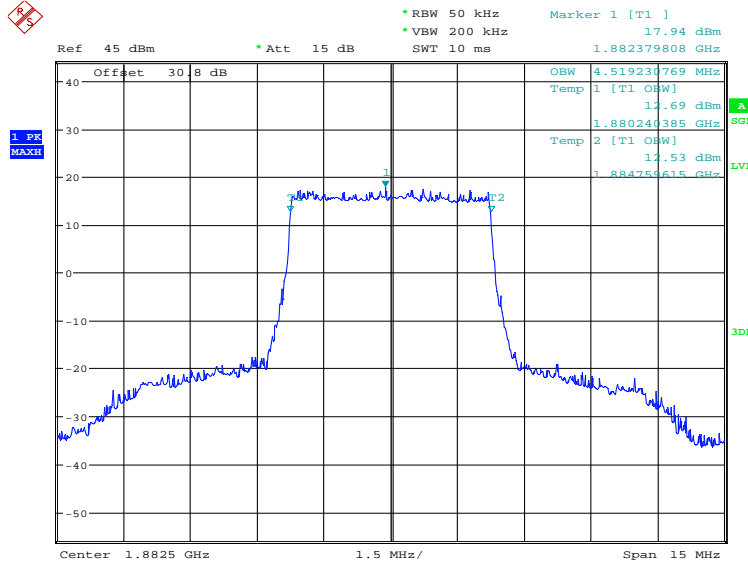


Date: 30.JUL.2024 08:44:06

LTE band 25, 5MHz (99%)

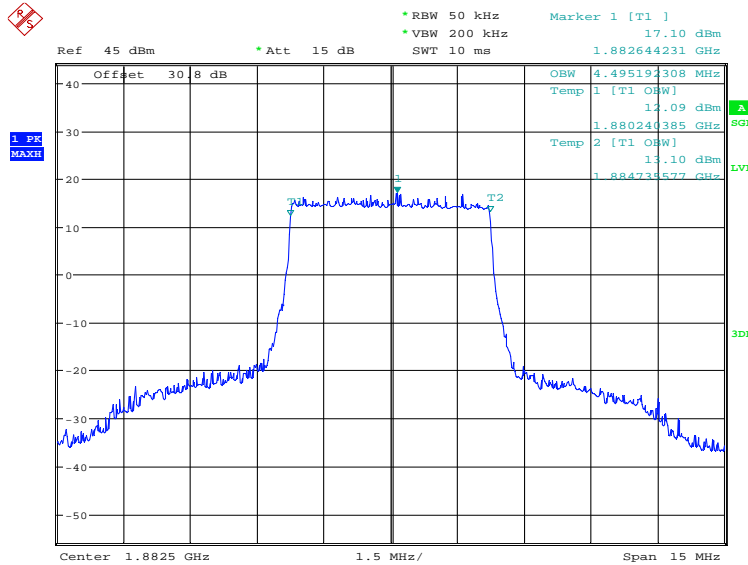
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4519.23	4495.19

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



Date: 30.JUL.2024 08:44:48

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

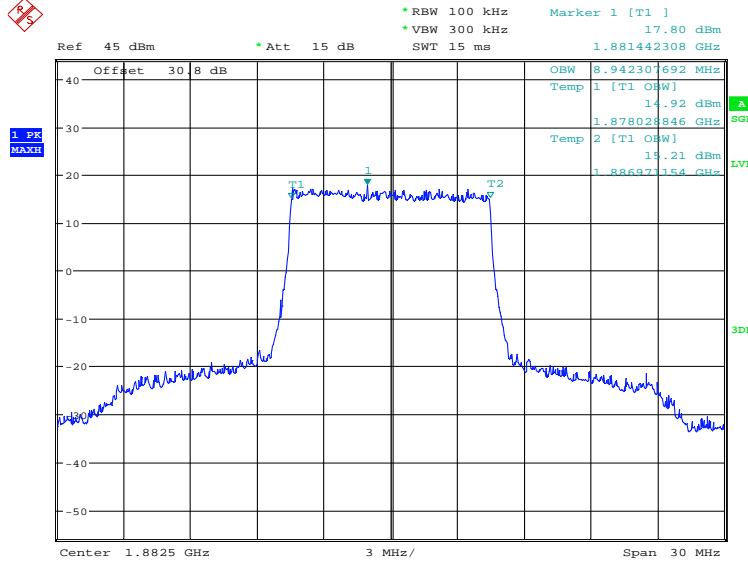


Date: 30.JUL.2024 08:45:28

LTE band 25, 10MHz (99%)

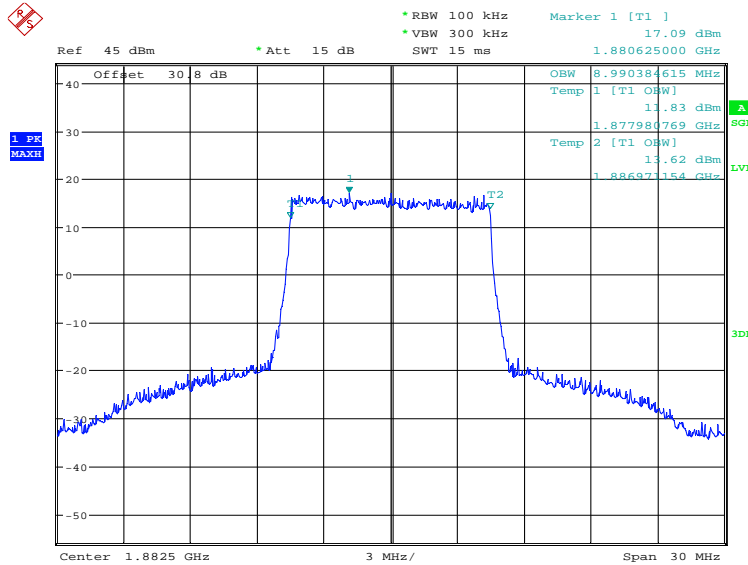
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8942.31	8990.38

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



Date: 30.JUL.2024 08:46:10

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

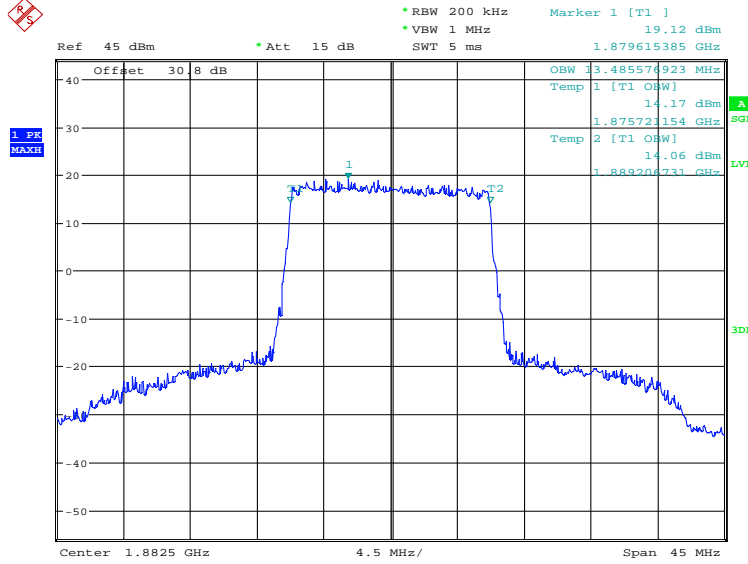


Date: 30.JUL.2024 08:46:49

LTE band 25, 15MHz (99%)

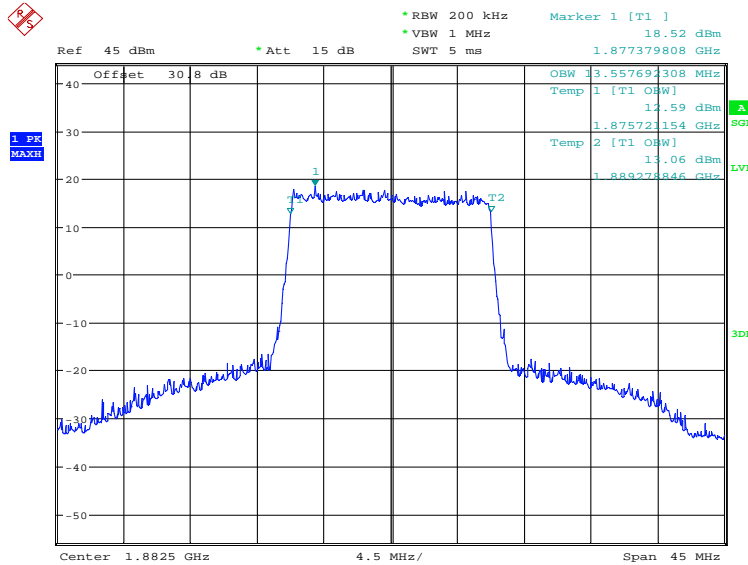
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13557.69

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



Date: 30.JUL.2024 08:47:31

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

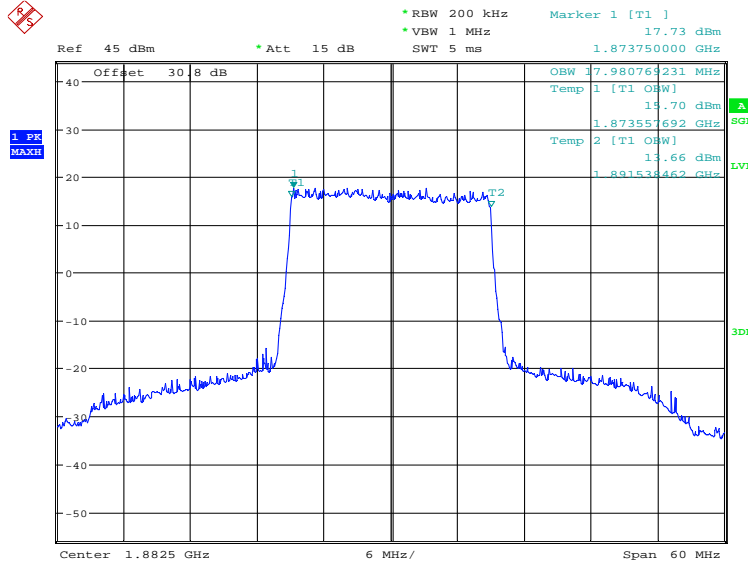


Date: 30.JUL.2024 08:48:11

LTE band 25, 20MHz (99%)

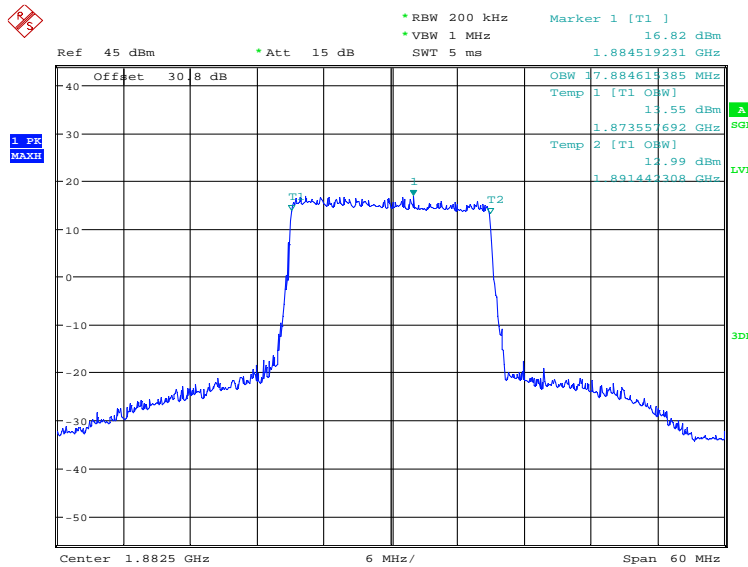
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17884.62

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



Date: 30.JUL.2024 08:48:53

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

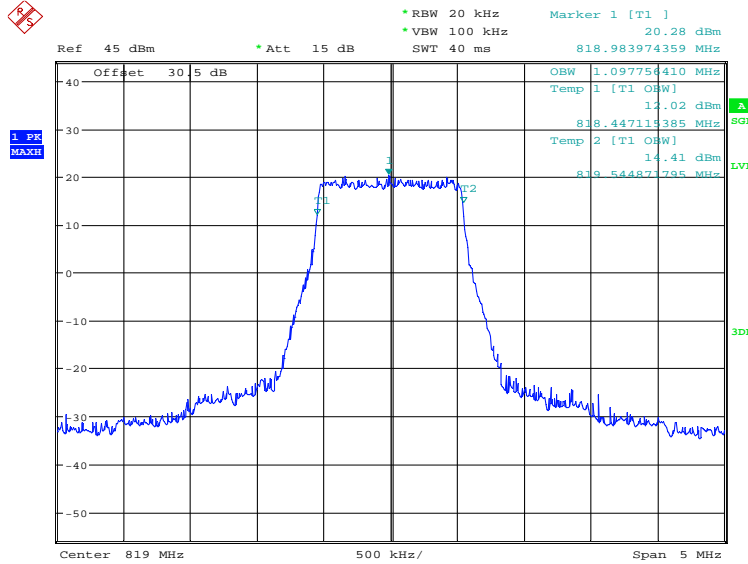


Date: 30.JUL.2024 08:49:33

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

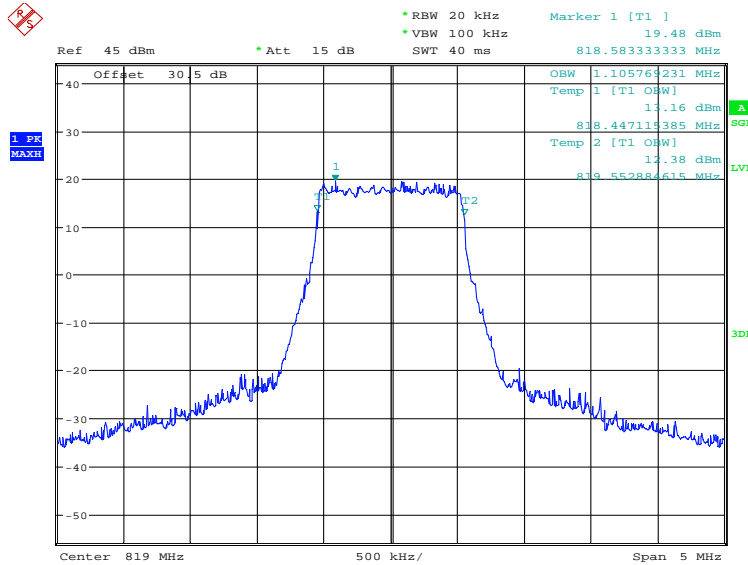
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1097.76	1105.77

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



Date: 29.JUL.2024 14:50:19

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

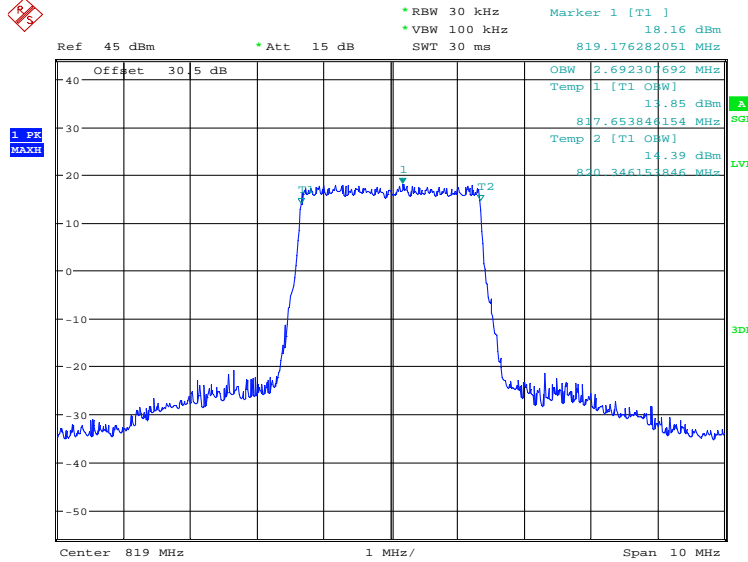


Date: 29.JUL.2024 14:50:59

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

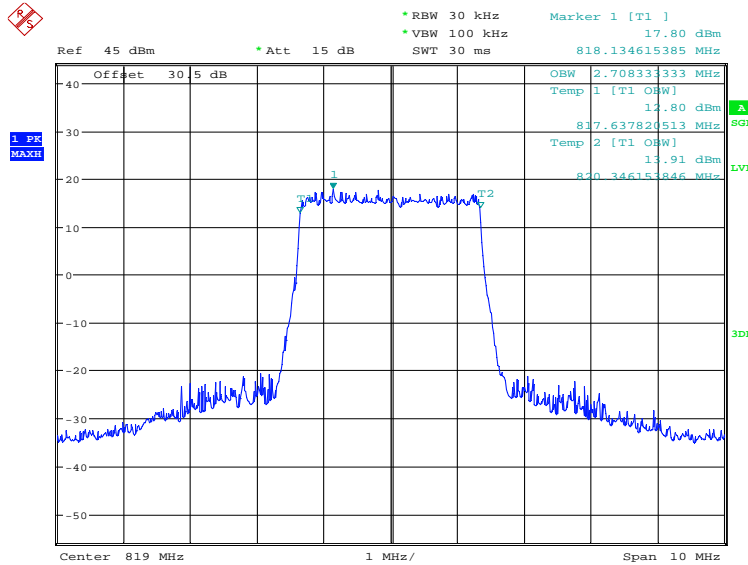
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2708.33

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



Date: 29.JUL.2024 14:51:41

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

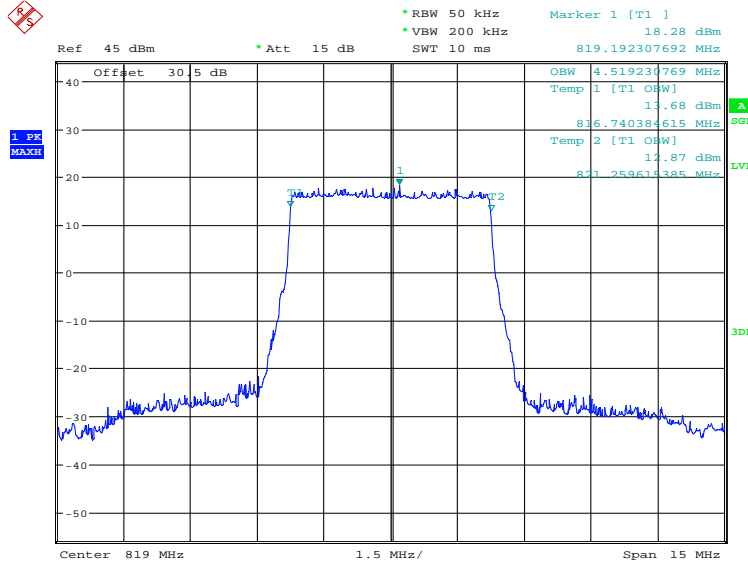


Date: 29.JUL.2024 14:52:21

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

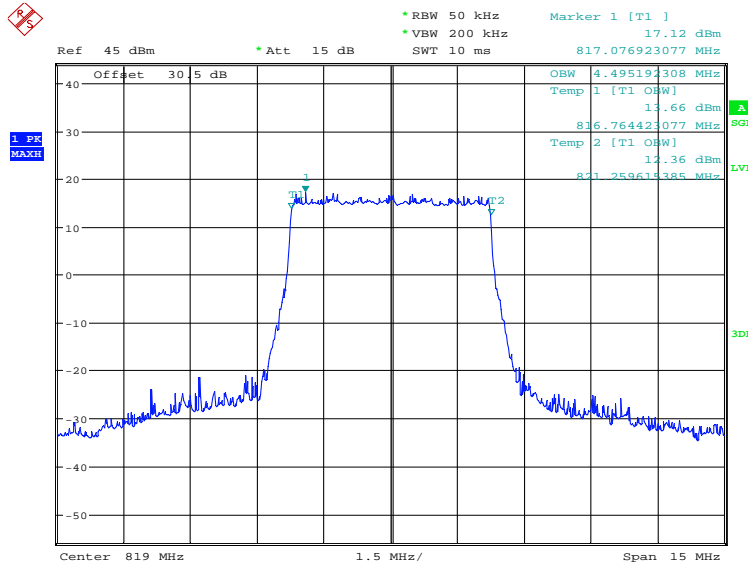
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4519.23	4495.19

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



Date: 29.JUL.2024 14:53:03

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

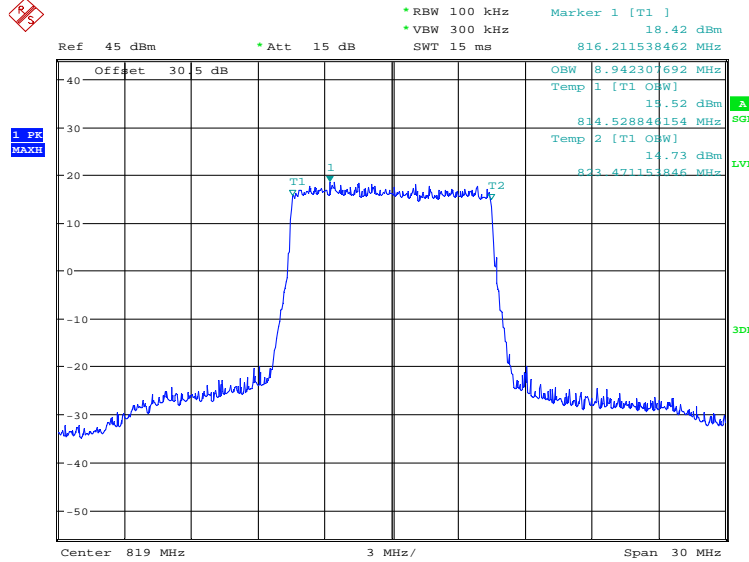


Date: 29.JUL.2024 14:53:43

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

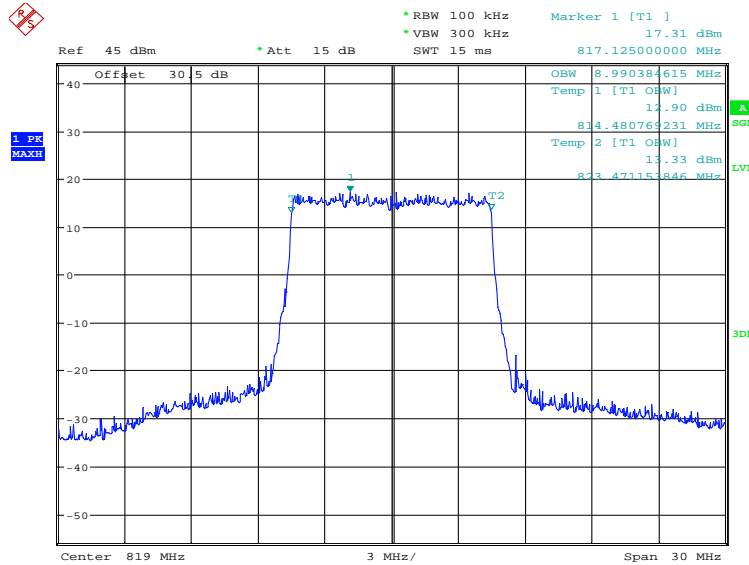
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 29.JUL.2024 14:54:25

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

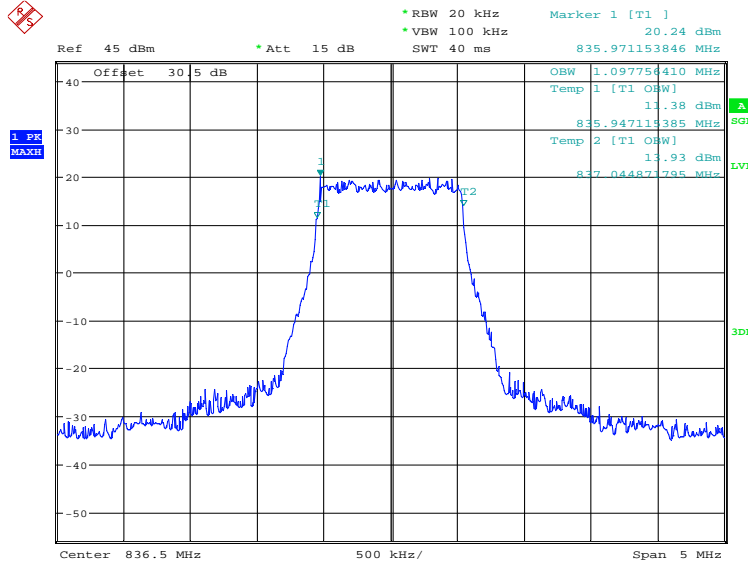


Date: 29.JUL.2024 14:55:05

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

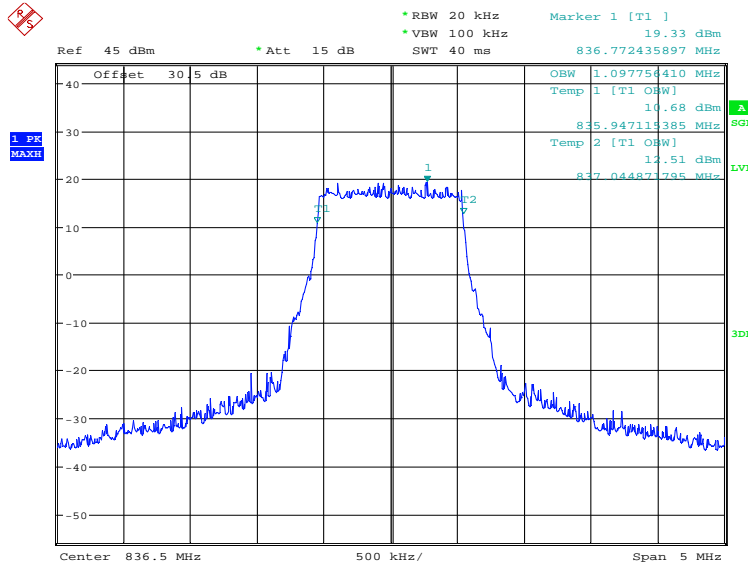
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1097.76	1097.76

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



Date: 29.JUL.2024 14:41:52

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

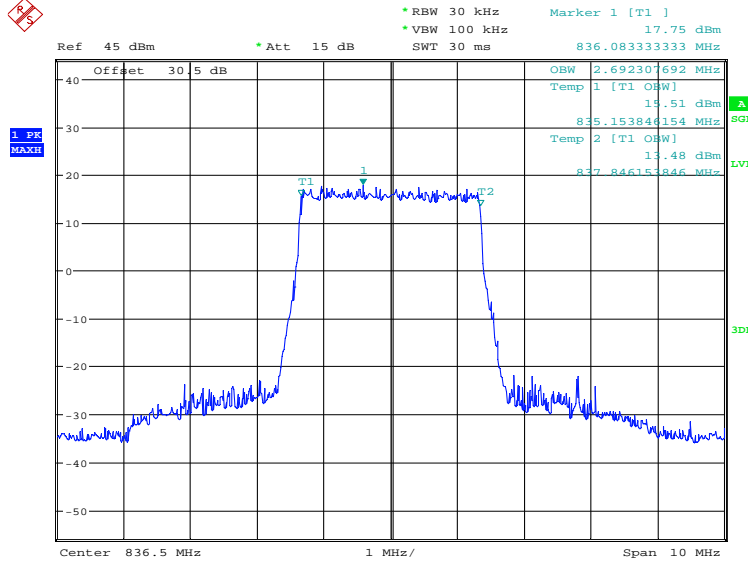


Date: 29.JUL.2024 14:42:32

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

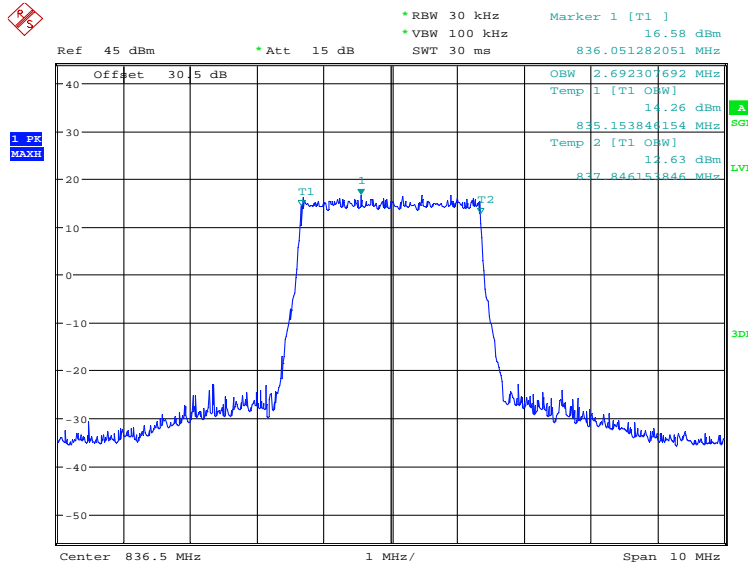
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 29.JUL.2024 14:43:14

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

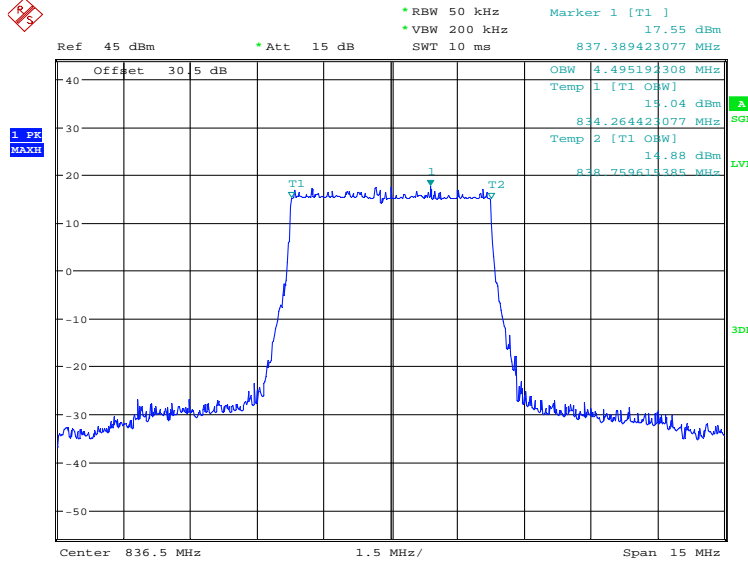


Date: 29.JUL.2024 14:43:54

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

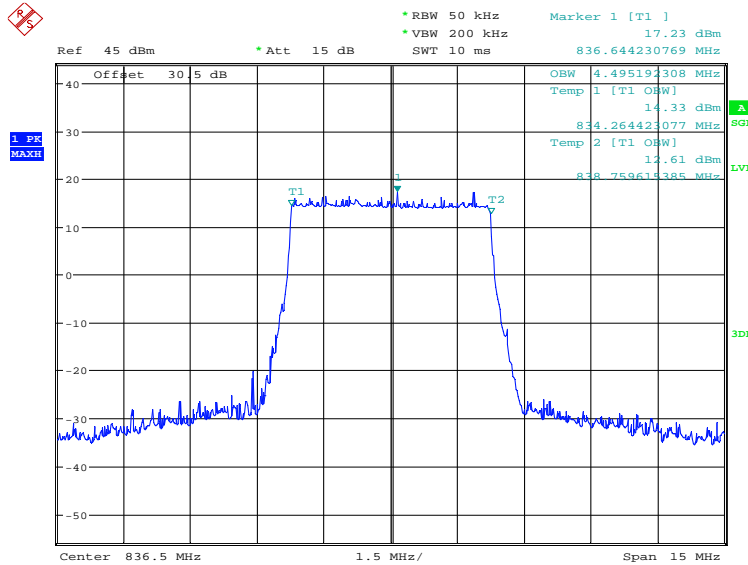
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 29.JUL.2024 14:44:35

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

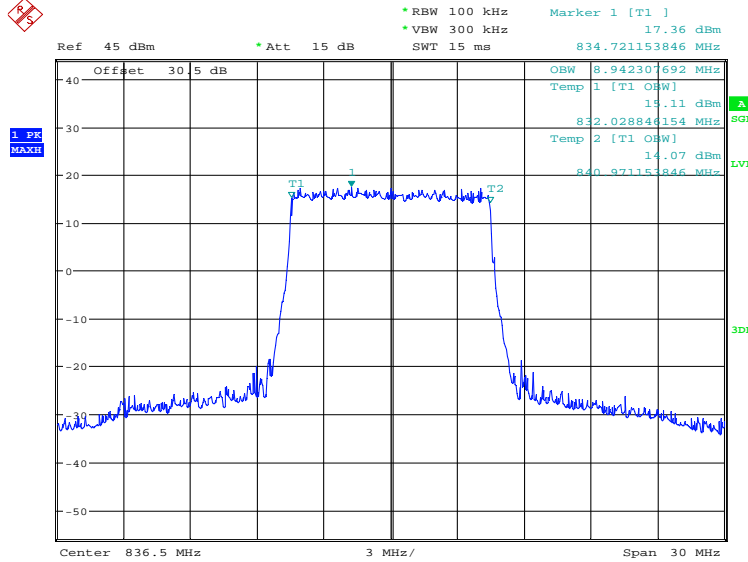


Date: 29.JUL.2024 14:45:15

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

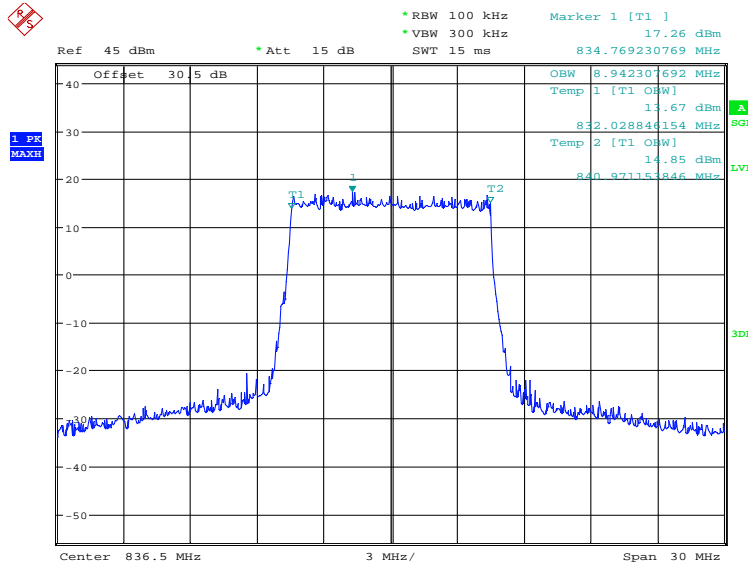
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 29.JUL.2024 14:45:57

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

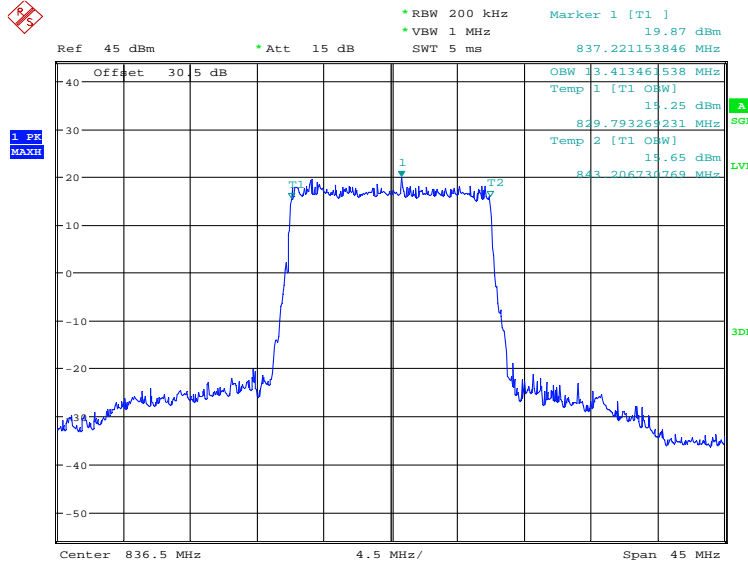


Date: 29.JUL.2024 14:46:37

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

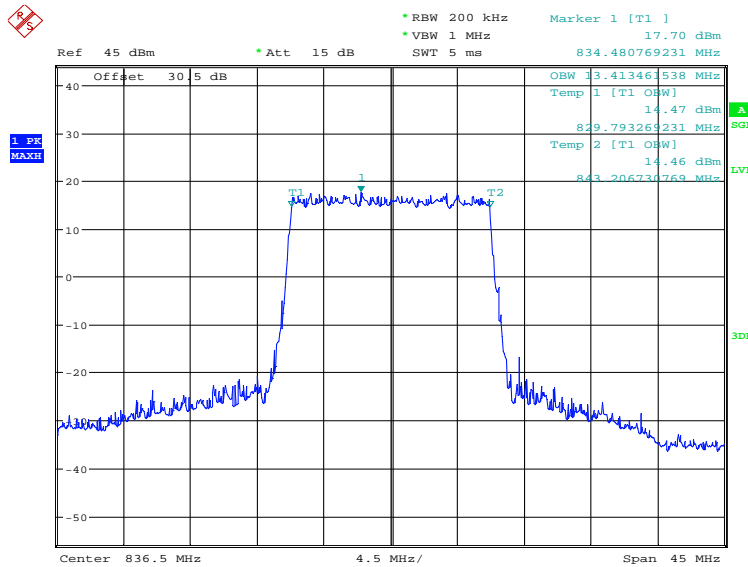
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13413.46	13413.46

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



Date: 29.JUL.2024 14:48:16

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

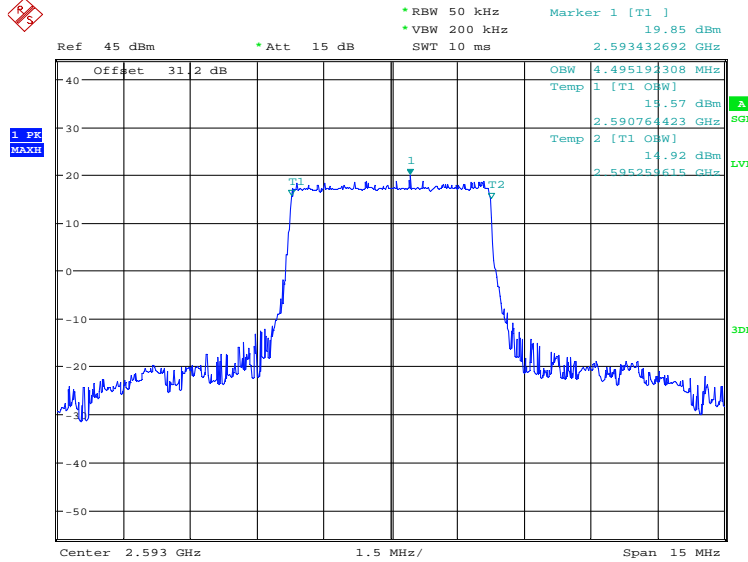


Date: 29.JUL.2024 14:48:56

LTE band 41, 5MHz (99%)

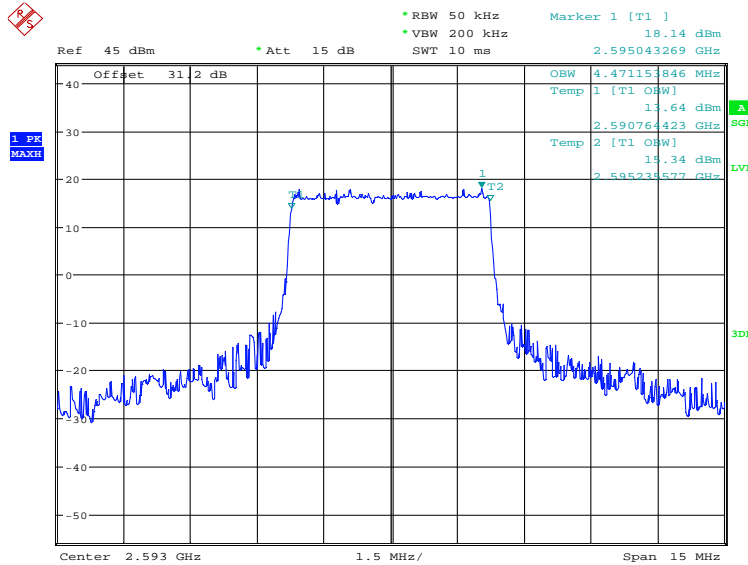
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 1.AUG.2024 11:12:33

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

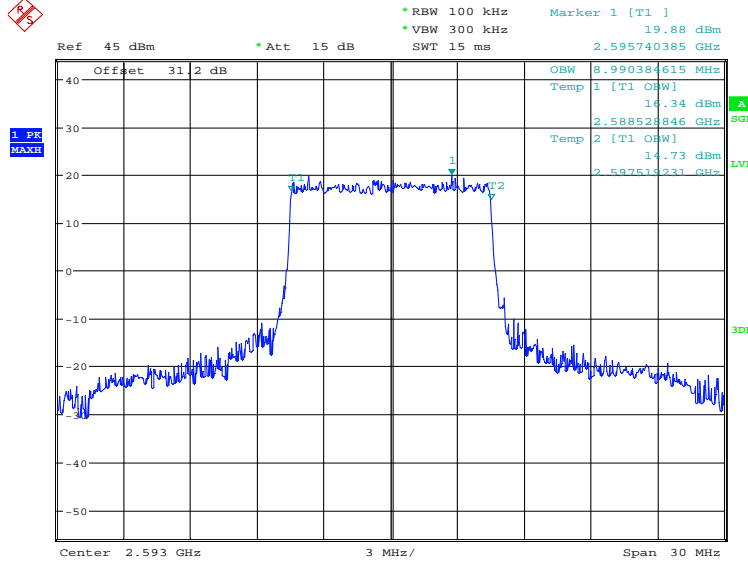


Date: 1.AUG.2024 11:13:13

LTE band 41, 10MHz (99%)

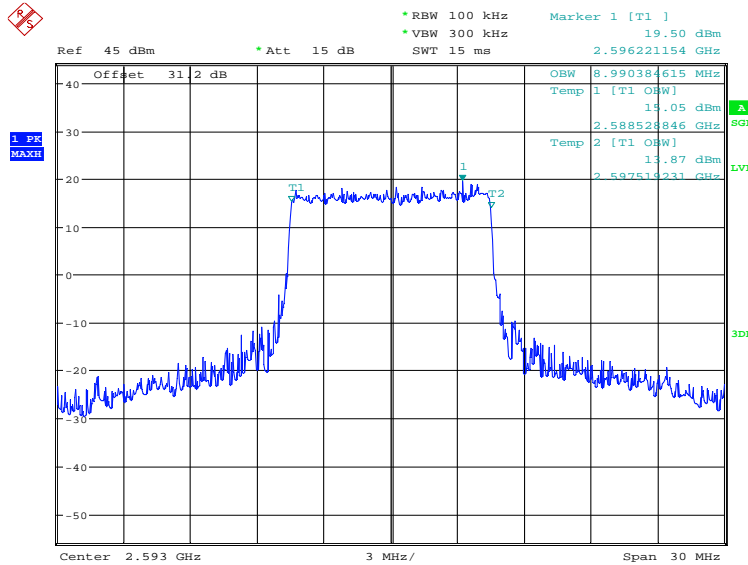
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 1.AUG.2024 11:13:56

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

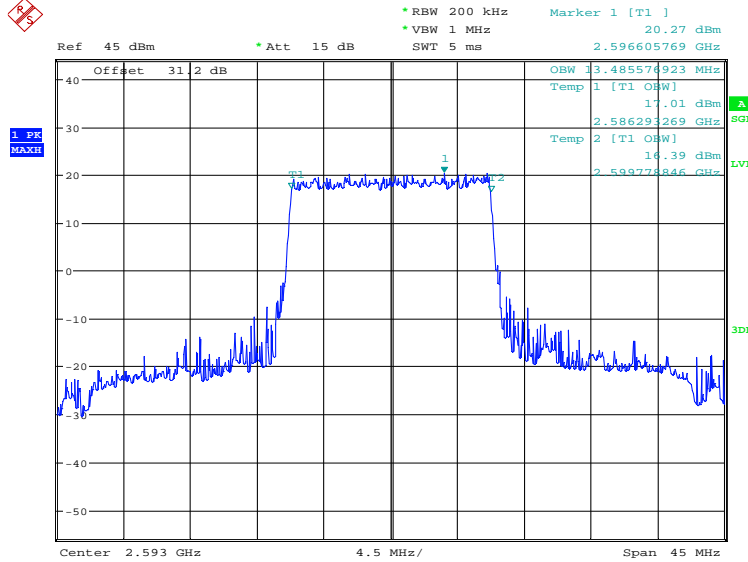


Date: 1.AUG.2024 11:14:36

LTE band 41, 15MHz (99%)

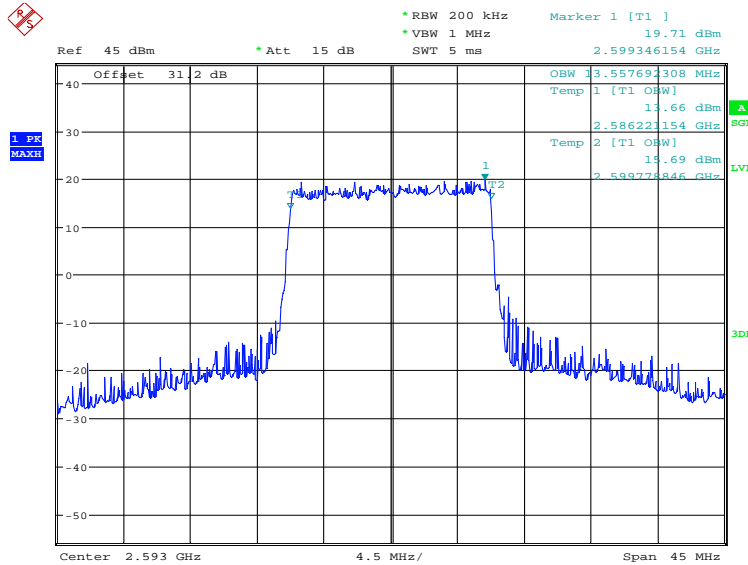
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13557.69

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



Date: 1.AUG.2024 11:15:20

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

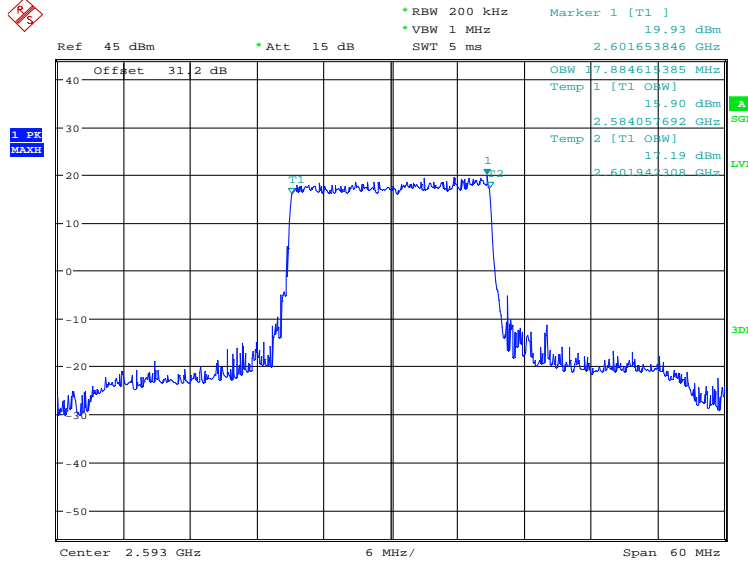


Date: 1.AUG.2024 11:16:00

LTE band 41, 20MHz (99%)

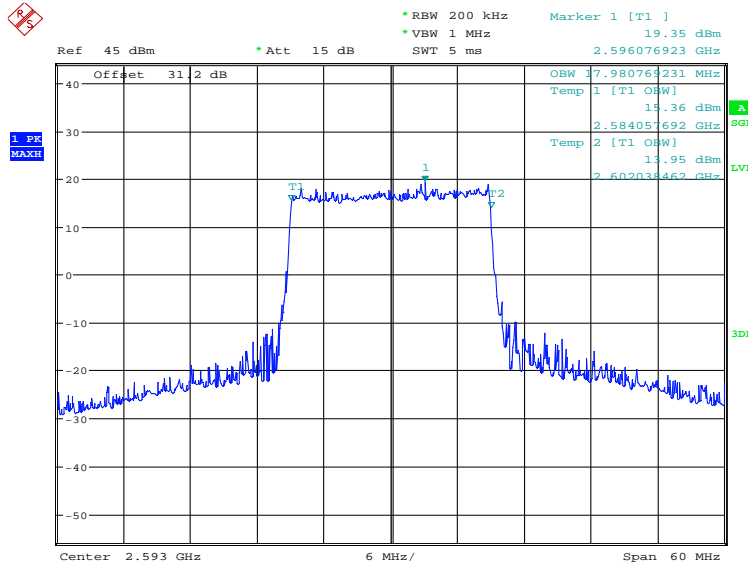
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17884.62	17980.77

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



Date: 1.AUG.2024 11:16:43

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

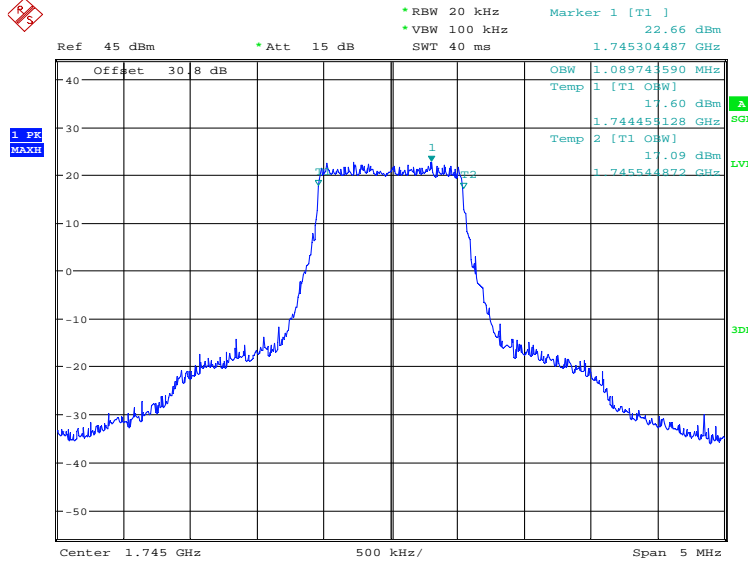


Date: 1.AUG.2024 11:17:23

LTE band 66, 1.4MHz (99%)

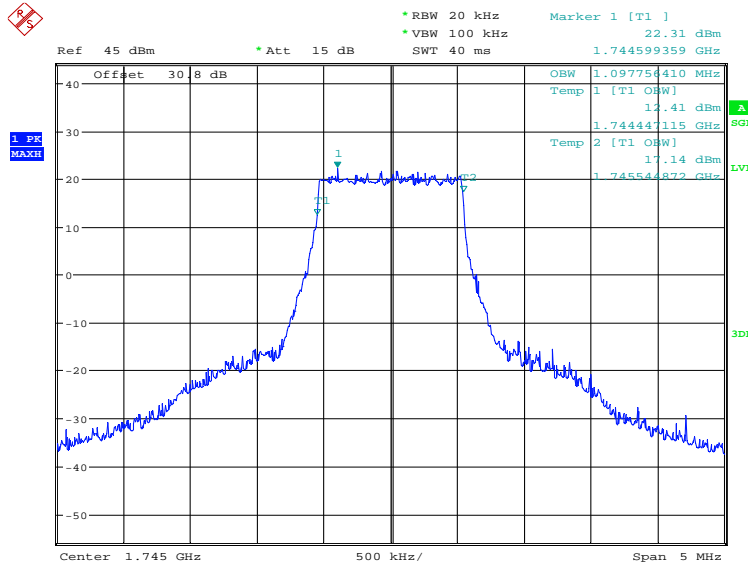
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 30.JUL.2024 08:50:16

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

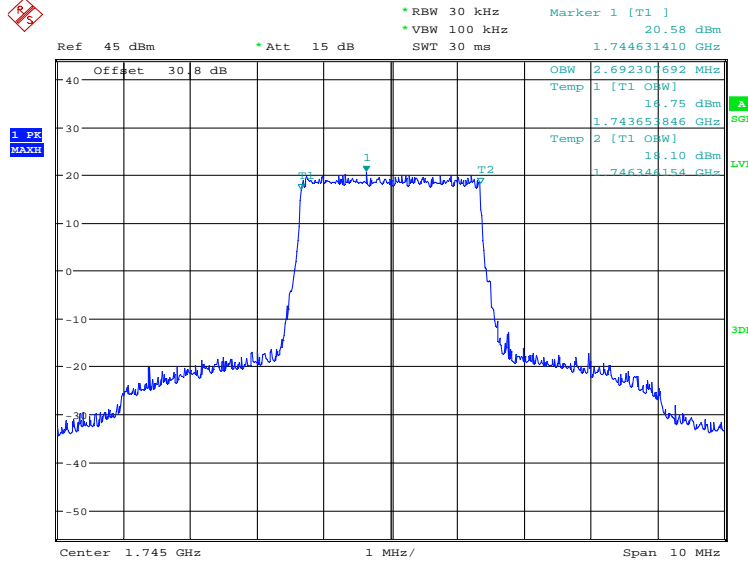


Date: 30.JUL.2024 08:50:56

LTE band 66, 3MHz (99%)

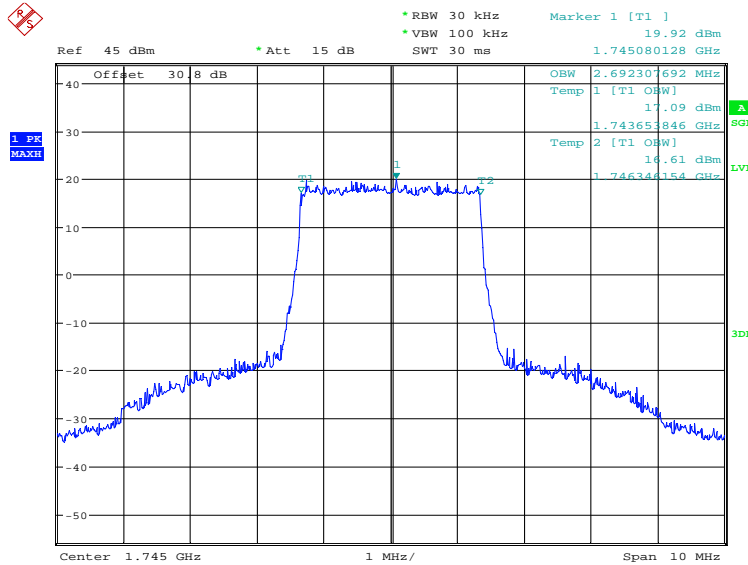
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 30.JUL.2024 08:51:38

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

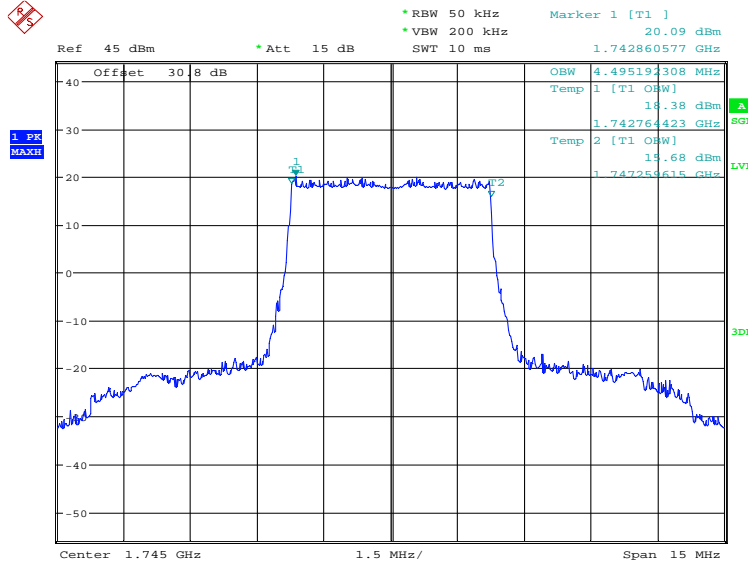


Date: 30.JUL.2024 08:52:17

LTE band 66, 5MHz (99%)

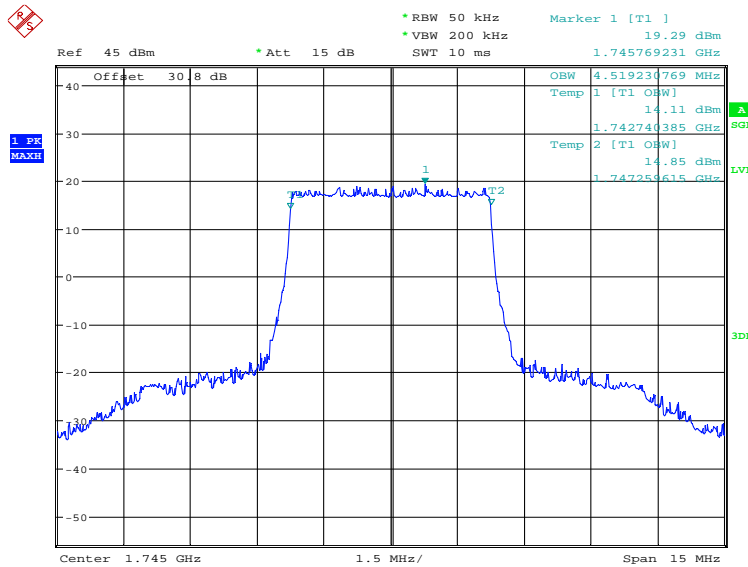
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4495.19	4519.23

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



Date: 30.JUL.2024 08:52:59

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

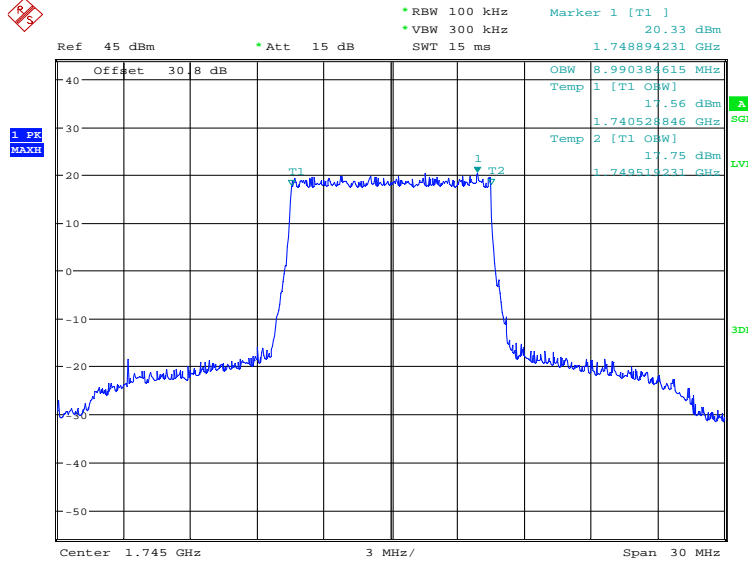


Date: 30.JUL.2024 08:53:39

LTE band 66, 10MHz (99%)

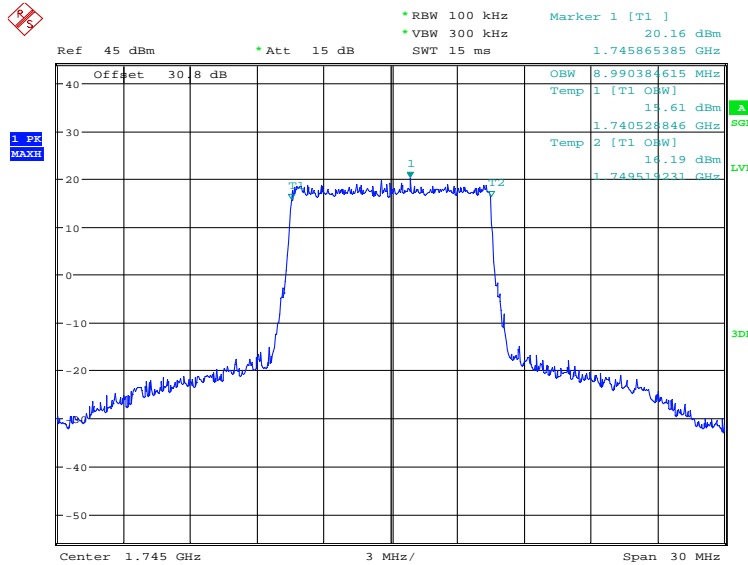
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 30.JUL.2024 08:54:21

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

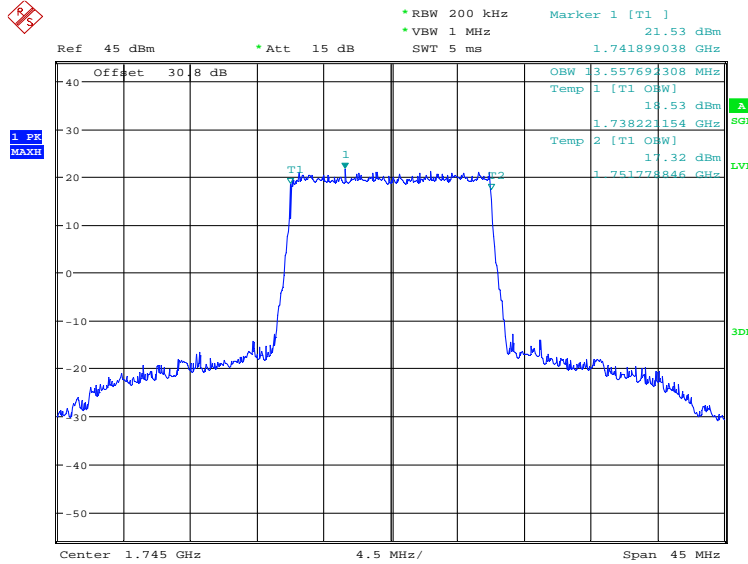


Date: 30.JUL.2024 08:55:01

LTE band 66, 15MHz (99%)

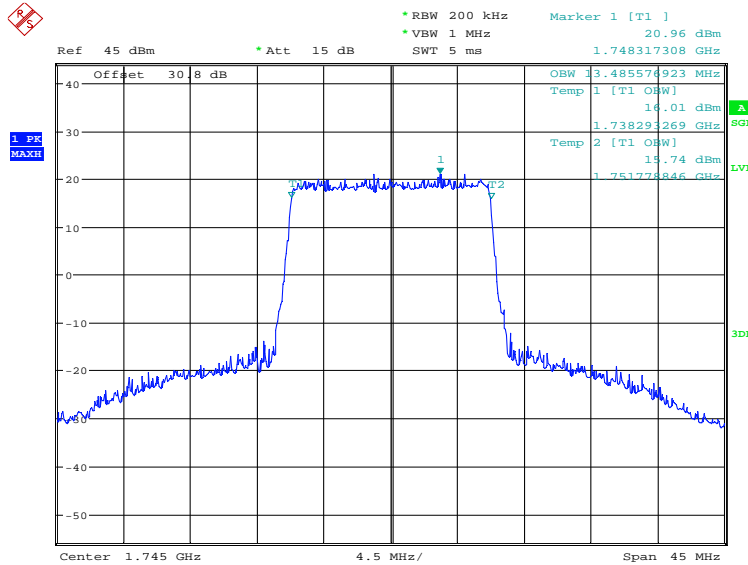
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13557.69	13485.58

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



Date: 30.JUL.2024 08:55:43

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

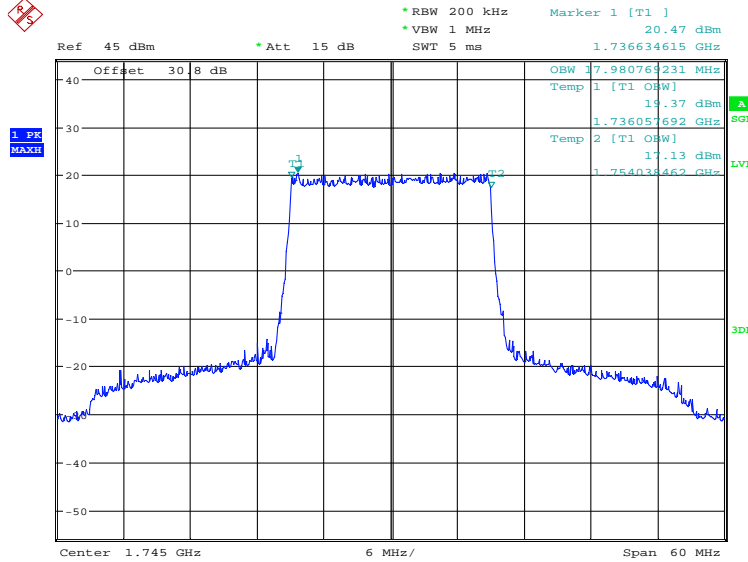


Date: 30.JUL.2024 08:56:23

LTE band 66, 20MHz (99%)

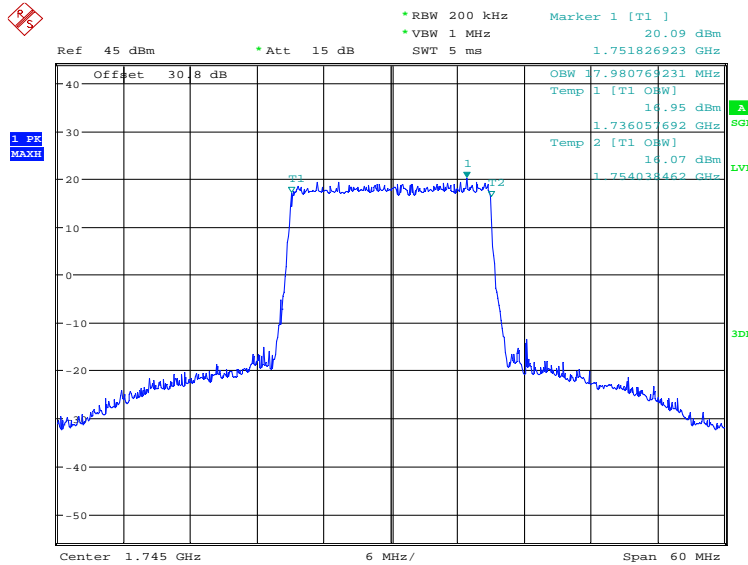
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 30.JUL.2024 08:57:05

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

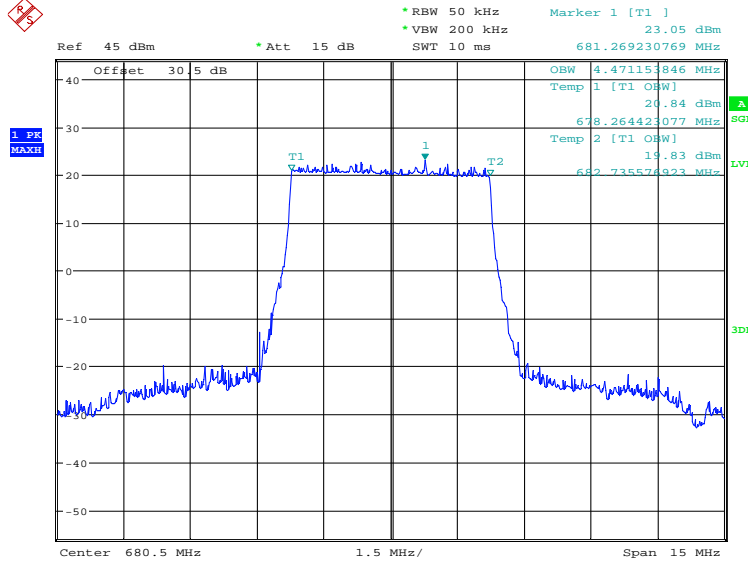


Date: 30.JUL.2024 08:57:44

LTE band 71, 5MHz (99%)

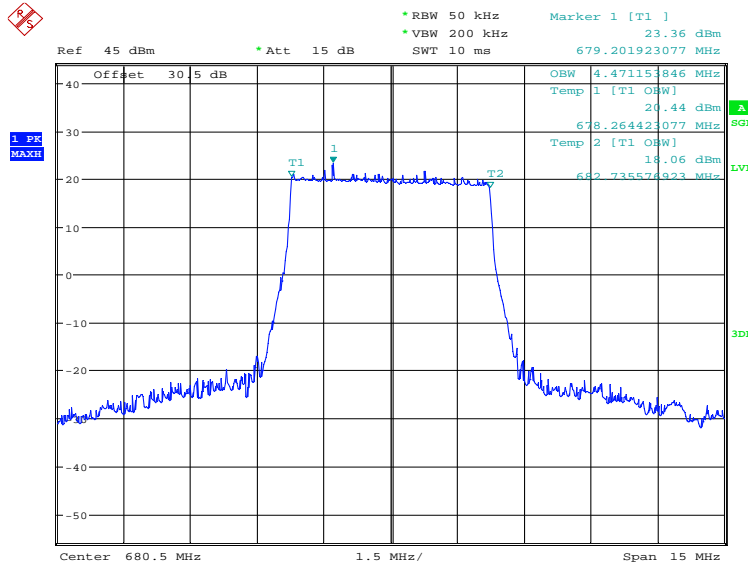
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4471.15	4471.15

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



Date: 29.JUL.2024 14:29:01

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

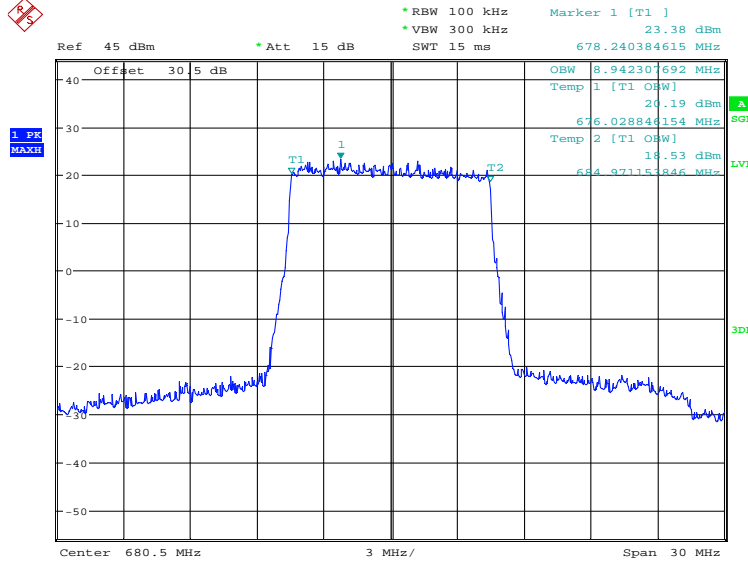


Date: 29.JUL.2024 14:29:41

LTE band 71, 10MHz (99%)

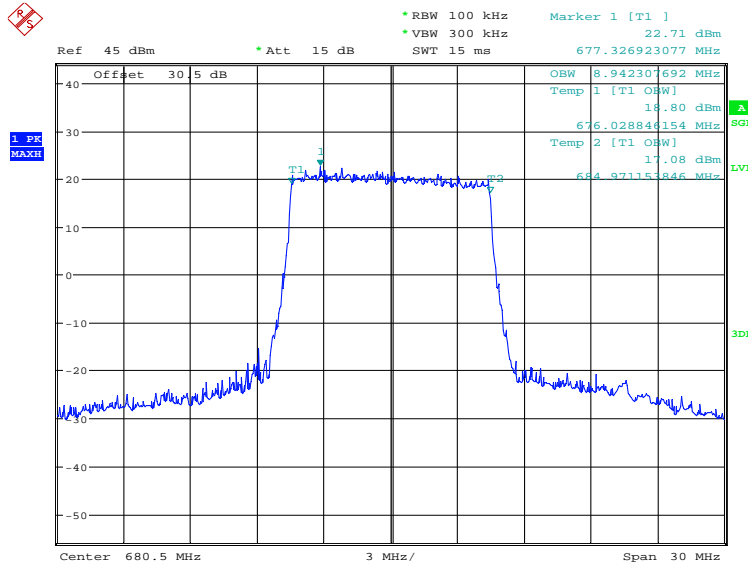
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8942.31	8942.31

LTE band 71, 10MHz Bandwidth, QPSK (99% BW)



Date: 29.JUL.2024 14:30:33

LTE band 71, 10MHz Bandwidth, 16QAM (99% BW)

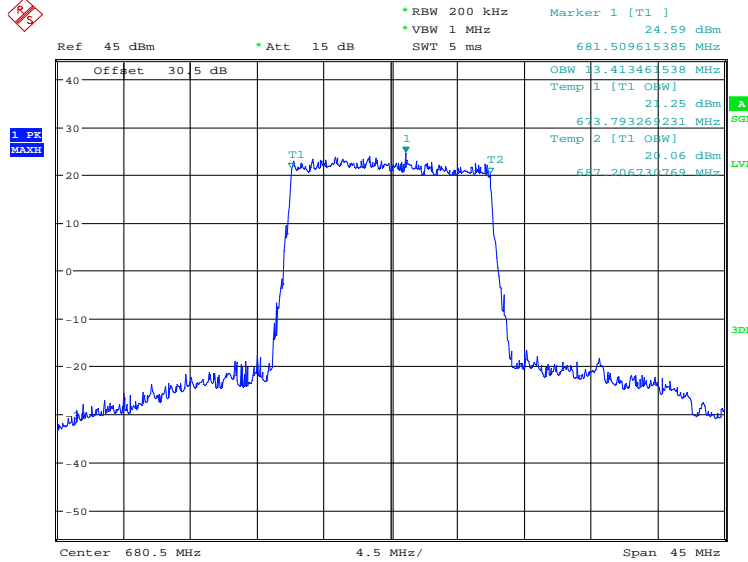


Date: 29.JUL.2024 14:31:13

LTE band 71, 15MHz (99%)

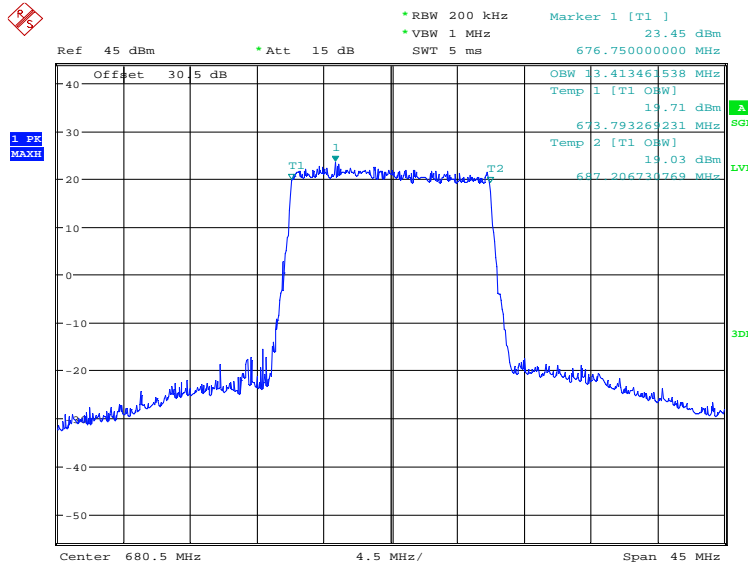
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13413.46	13413.46

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



Date: 29.JUL.2024 14:31:54

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

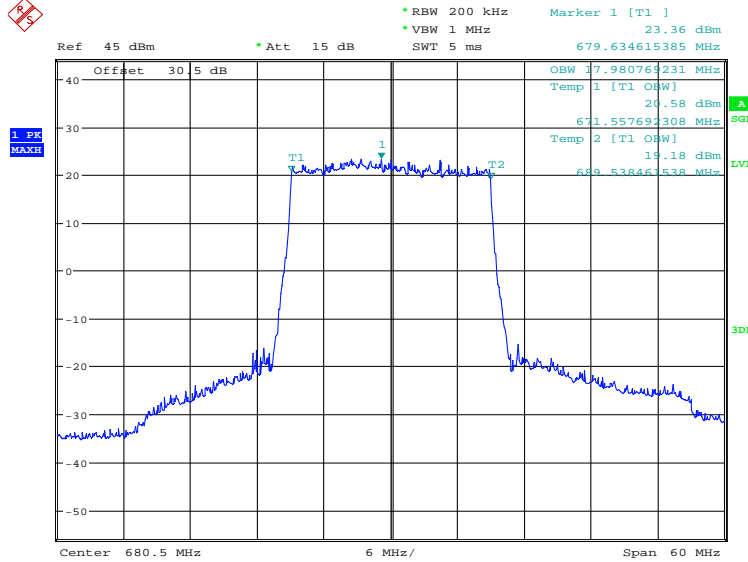


Date: 29.JUL.2024 14:32:34

LTE band 71, 20MHz (99%)

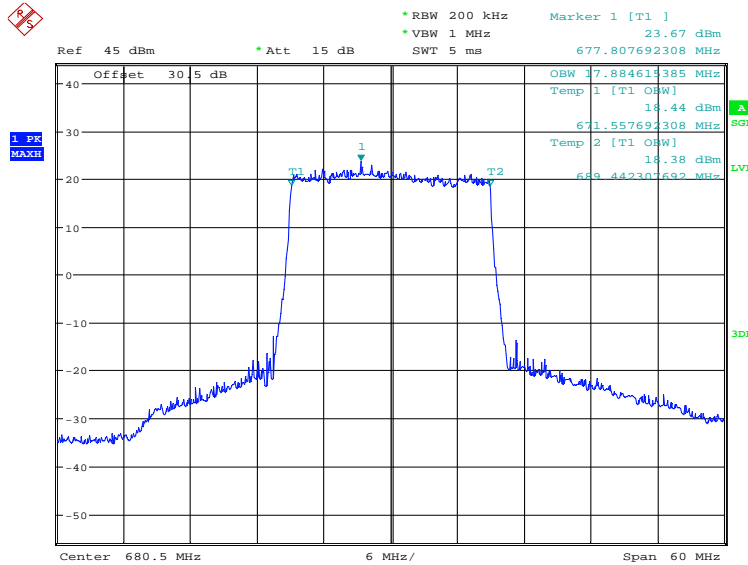
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17980.77	17884.62

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



Date: 29.JUL.2024 14:34:12

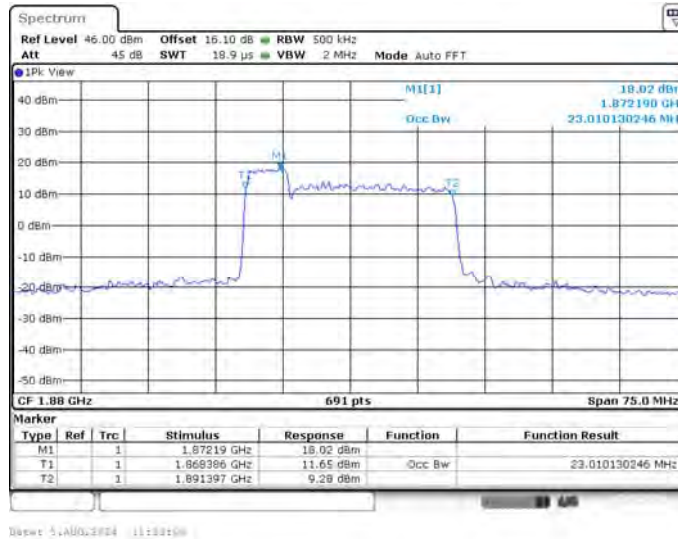
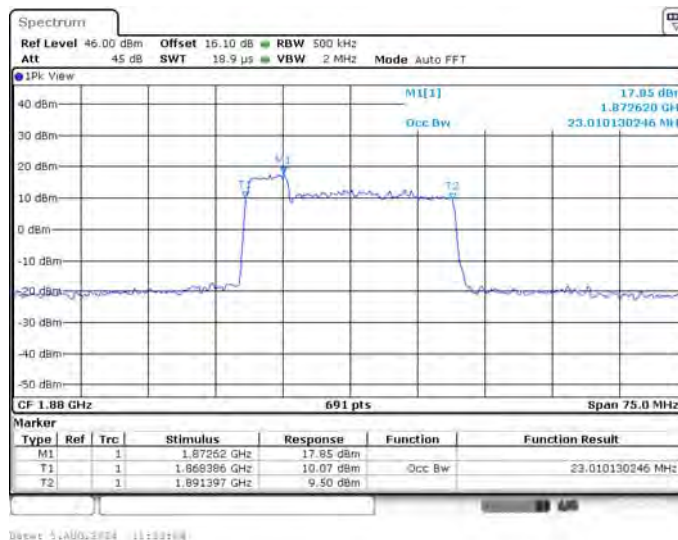
LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)



Date: 29.JUL.2024 14:34:52

LTE CA band 2C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	23.010	23.010

LTE CA band 2C , 5MHz+20MHz Bandwidth,QPSK (99% BW)

LTE CA band 2C , 5MHz+20MHz Bandwidth,16QAM (99% BW)


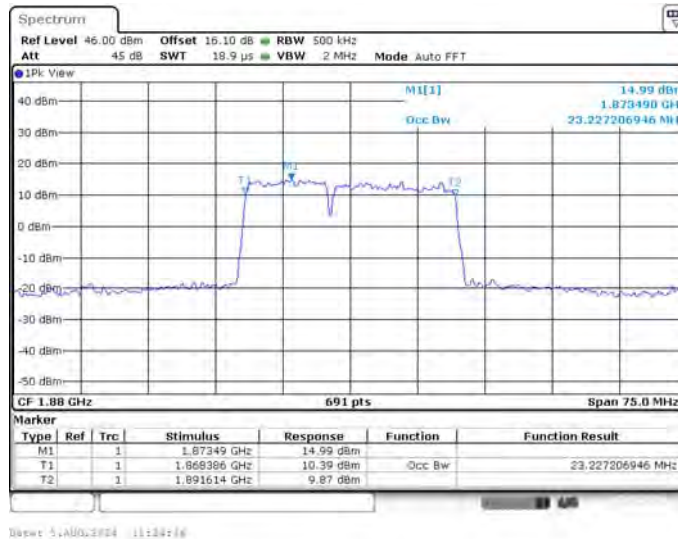
LTE CA band 2C, 10MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	23.227	23.227

LTE CA band 2C , 10MHz+15MHz Bandwidth,QPSK (99% BW)



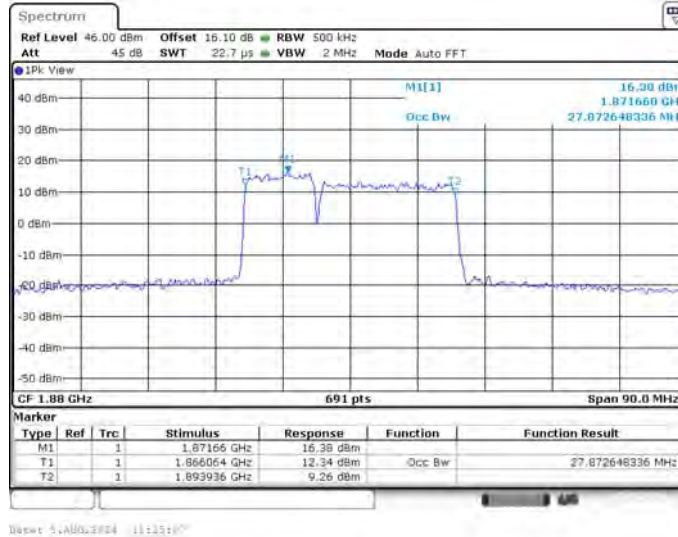
LTE CA band 2C , 10MHz+15MHz Bandwidth,16QAM (99% BW)



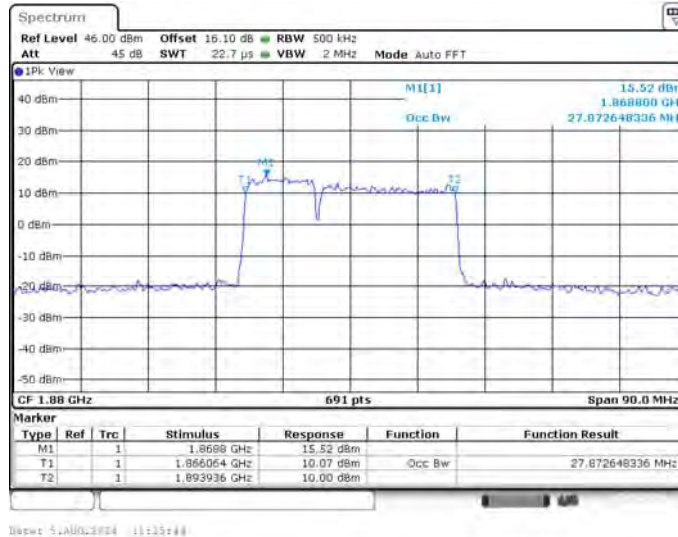
LTE CA band 2C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	27.873	27.873

LTE CA band 2C , 10MHz+20MHz Bandwidth,QPSK (99% BW)

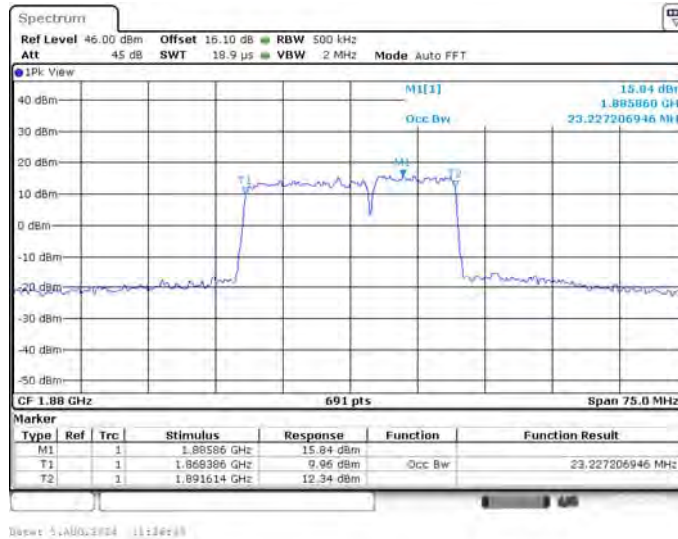


LTE CA band 2C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



LTE CA band 2C, 15MHz+10MHz(99%)

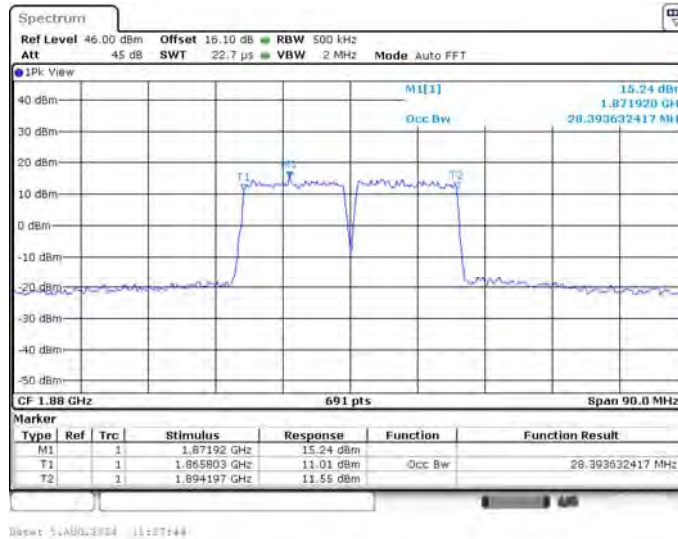
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	23.227	23.227

LTE CA band 2C , 15MHz+10MHz Bandwidth,QPSK (99% BW)

LTE CA band 2C , 15MHz+10MHz Bandwidth,16QAM (99% BW)

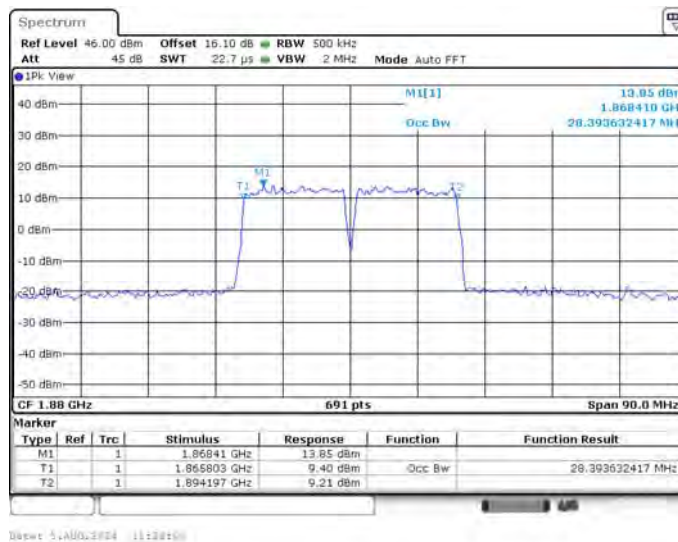

LTE CA band 2C, 15MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	28.394	28.394

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



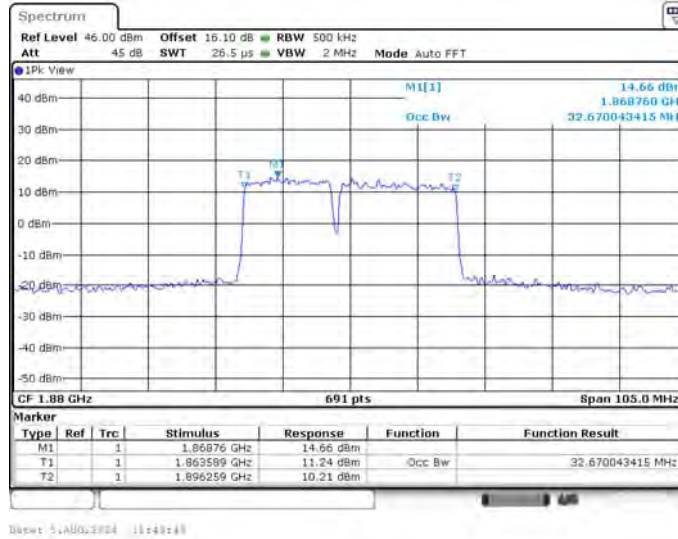
LTE CA band 2C , 15MHz+15MHz Bandwidth,16QAM (99% BW)



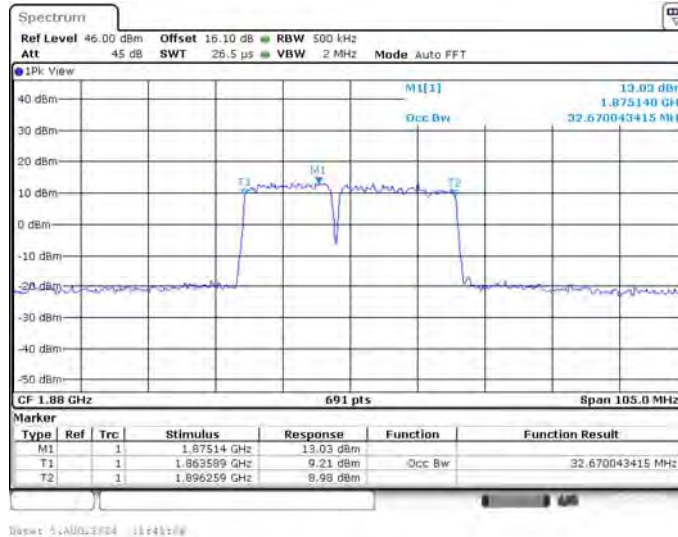
LTE CA band 2C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	32.670	32.670

LTE CA band 2C , 15MHz+20MHz Bandwidth,QPSK (99% BW)



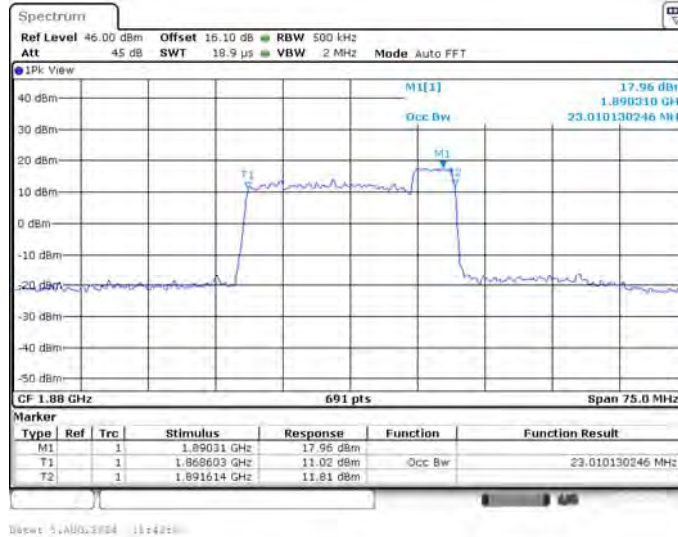
LTE CA band 2C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



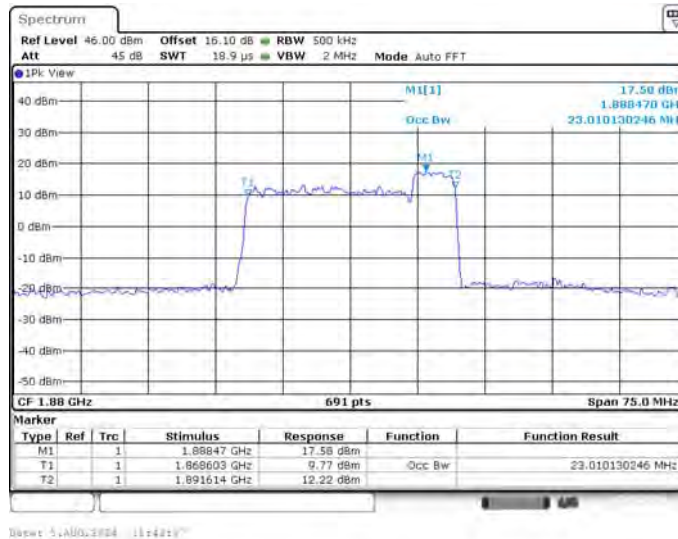
LTE CA band 2C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	23.010	23.010

LTE CA band 2C , 20MHz+5MHz Bandwidth,QPSK (99% BW)



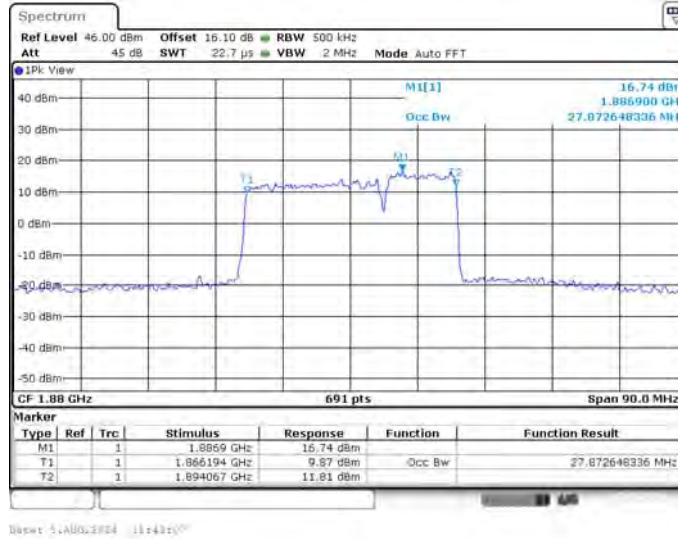
LTE CA band 2C , 20MHz+5MHz Bandwidth,16QAM (99% BW)



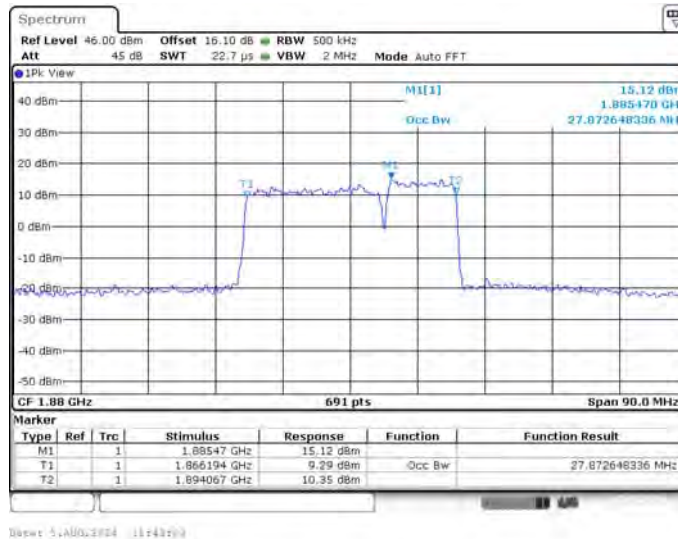
LTE CA band 2C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	27.873	27.873

LTE CA band 2C , 20MHz+10MHz Bandwidth,QPSK (99% BW)



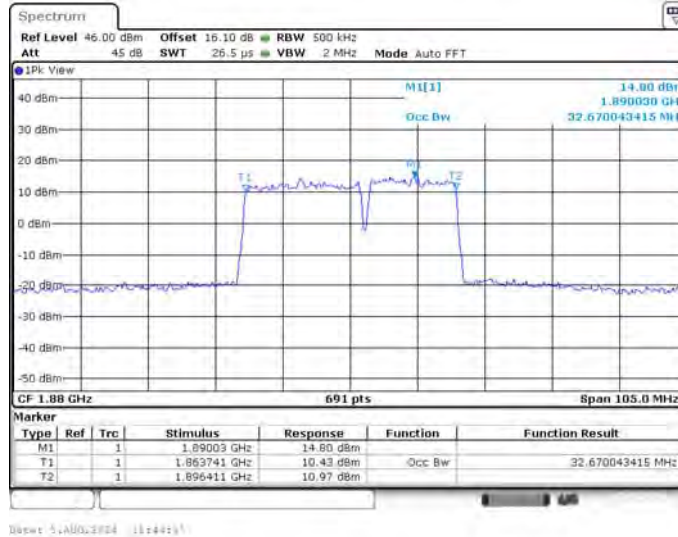
LTE CA band 2C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



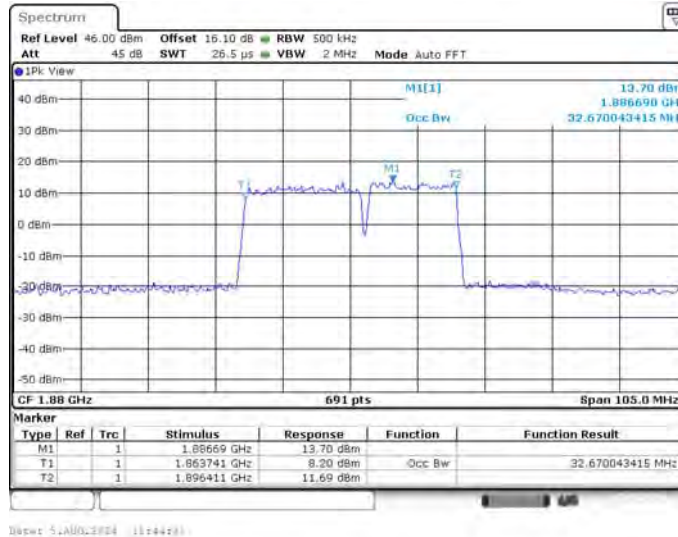
LTE CA band 2C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	32.670	32.670

LTE CA band 2C , 20MHz+15MHz Bandwidth,QPSK (99% BW)



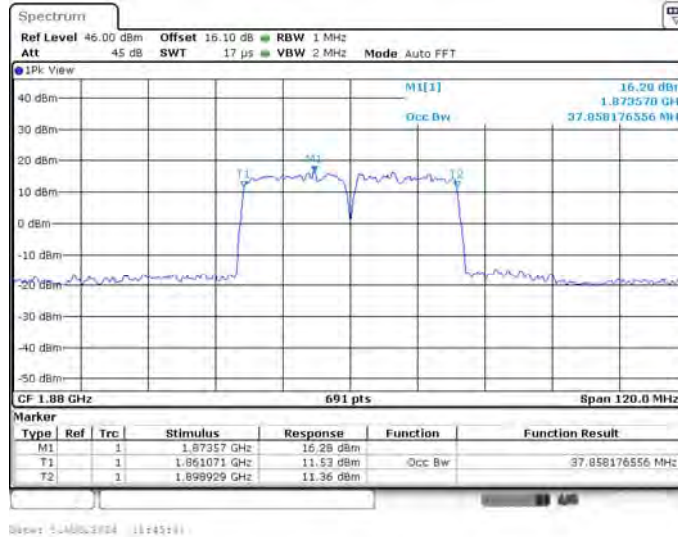
LTE CA band 2C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



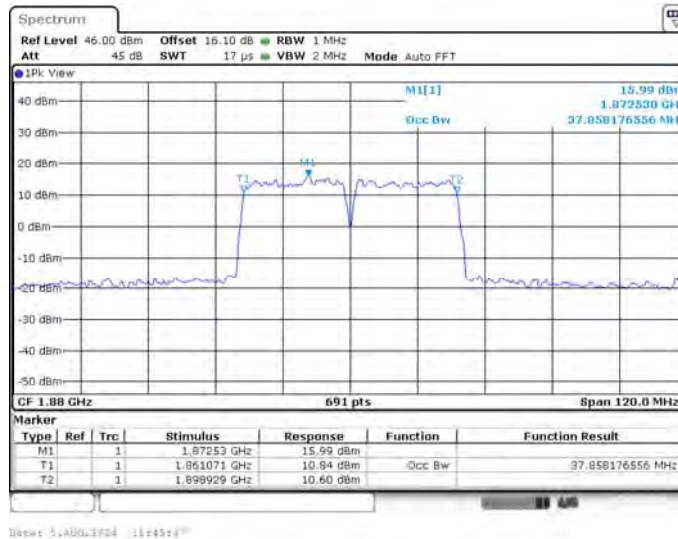
LTE CA band 2C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1880.0	37.858	37.858

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



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



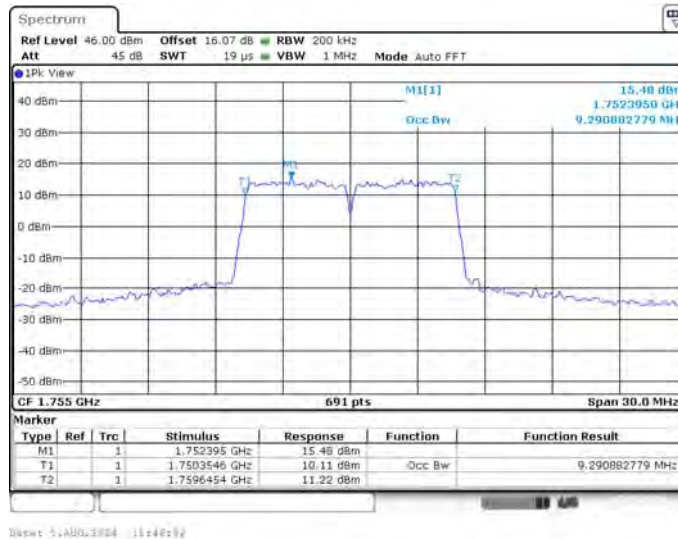
LTE CA band 66B, 5MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	9.291	9.291

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



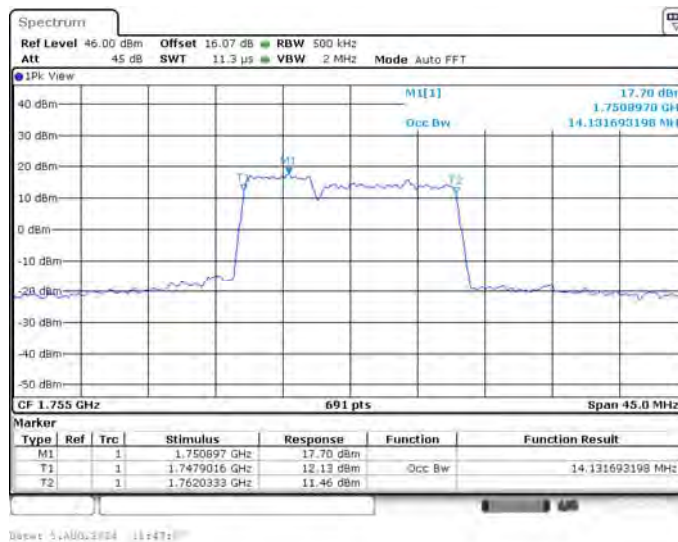
LTE CA band 66B , 5MHz+5MHz Bandwidth,16QAM (99% BW)



LTE CA band 66B, 5MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.132	14.132

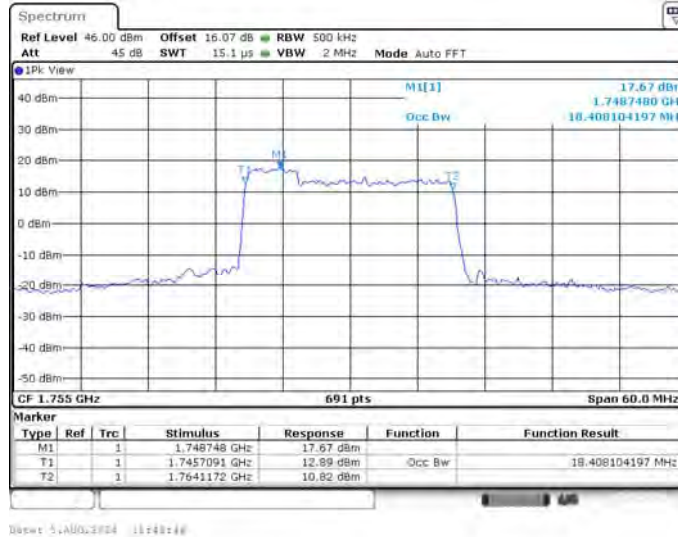
LTE CA band 66B , 5MHz+10MHz Bandwidth,QPSK (99% BW)

LTE CA band 66B , 5MHz+10MHz Bandwidth,16QAM (99% BW)


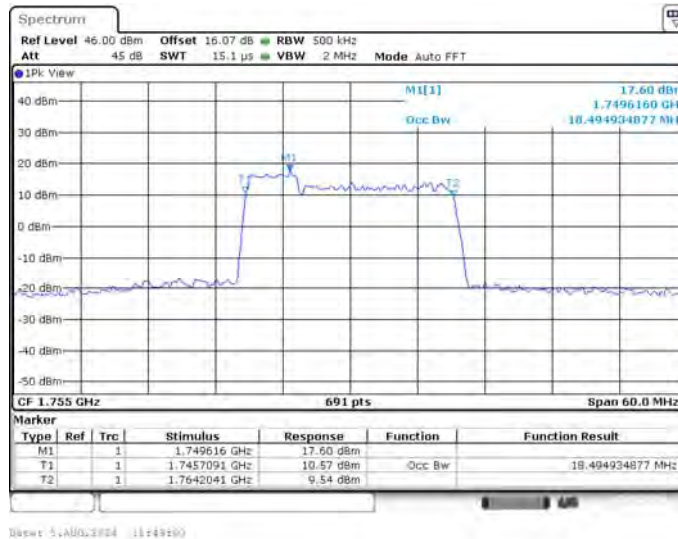
LTE CA band 66B, 5MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.408	18.495

LTE CA band 66B , 5MHz+15MHz Bandwidth,QPSK (99% BW)



LTE CA band 66B , 5MHz+15MHz Bandwidth,16QAM (99% BW)



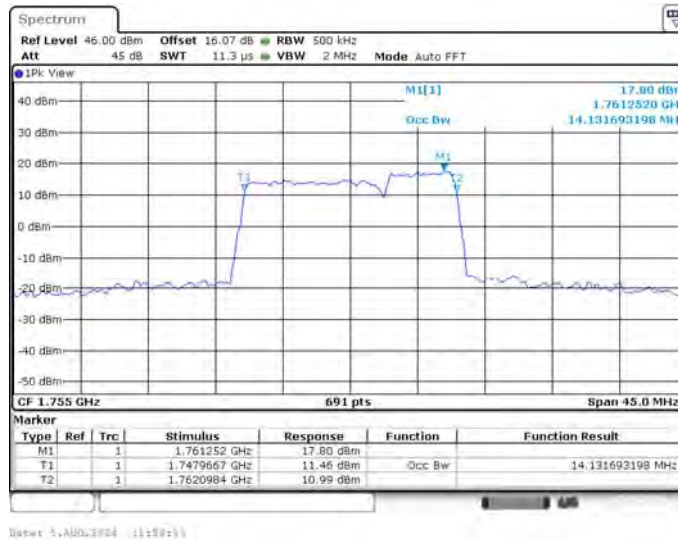
LTE CA band 66B, 10MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.132	14.132

LTE CA band 66B , 10MHz+5MHz Bandwidth,QPSK (99% BW)



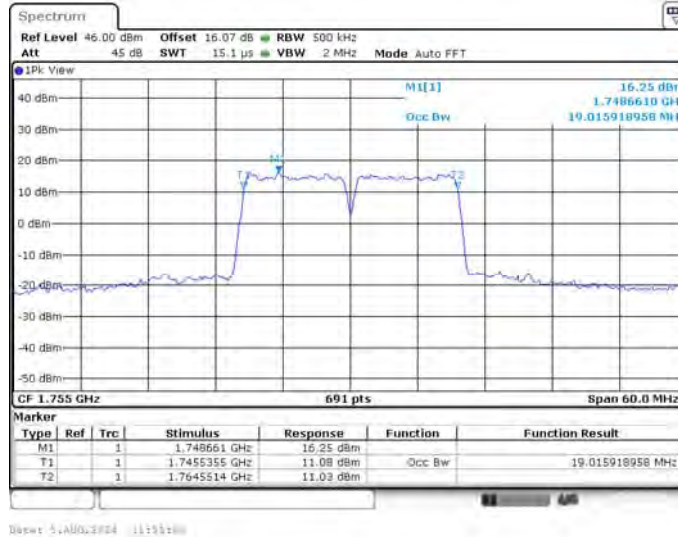
LTE CA band 66B , 10MHz+5MHz Bandwidth,16QAM (99% BW)



LTE CA band 66B, 10MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	19.016	18.842

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

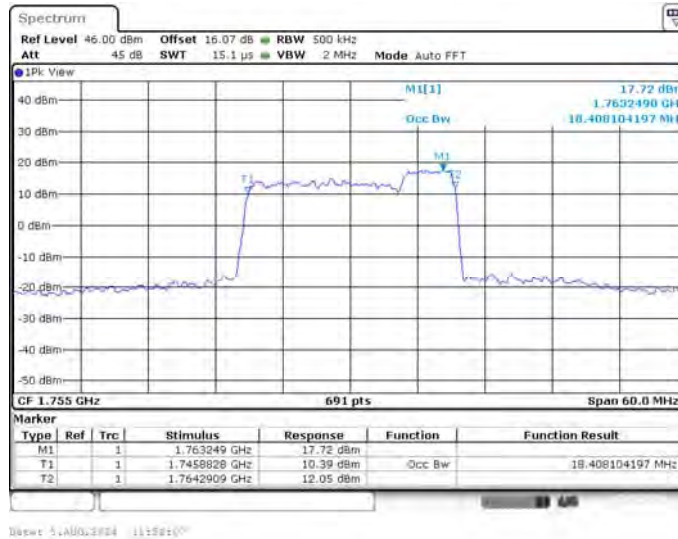
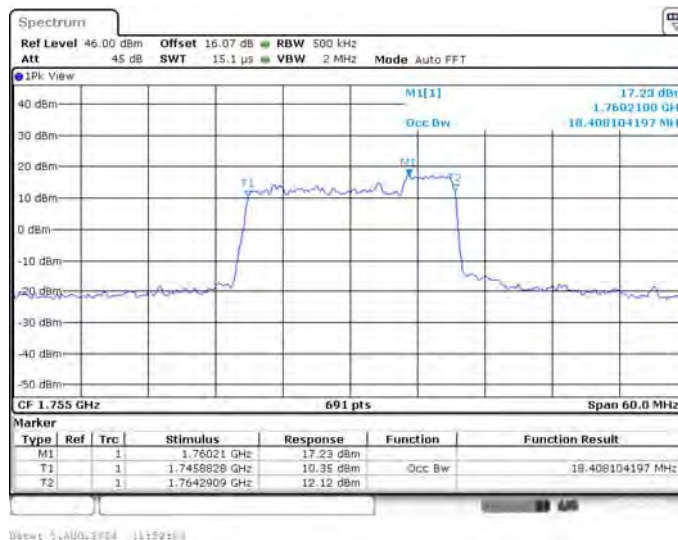


LTE CA band 66B , 10MHz+10MHz Bandwidth,16QAM (99% BW)



LTE CA band 66B, 15MHz+5MHz(99%)

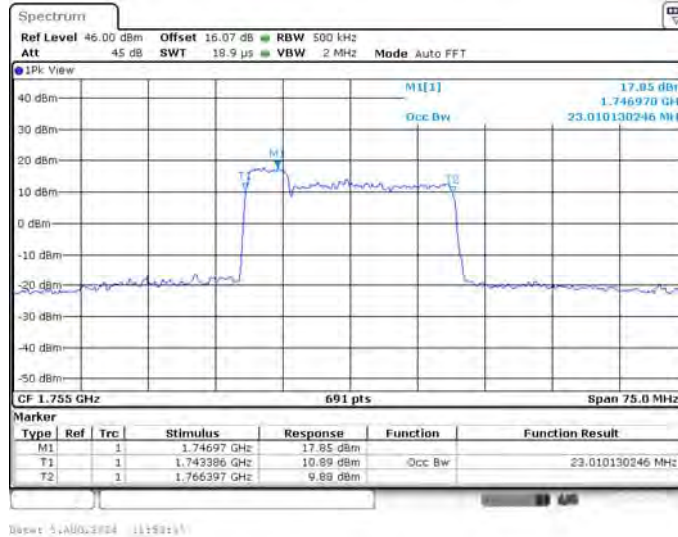
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.408	18.408

LTE CA band 66B , 15MHz+5MHz Bandwidth,QPSK (99% BW)

LTE CA band 66B , 15MHz+5MHz Bandwidth,16QAM (99% BW)


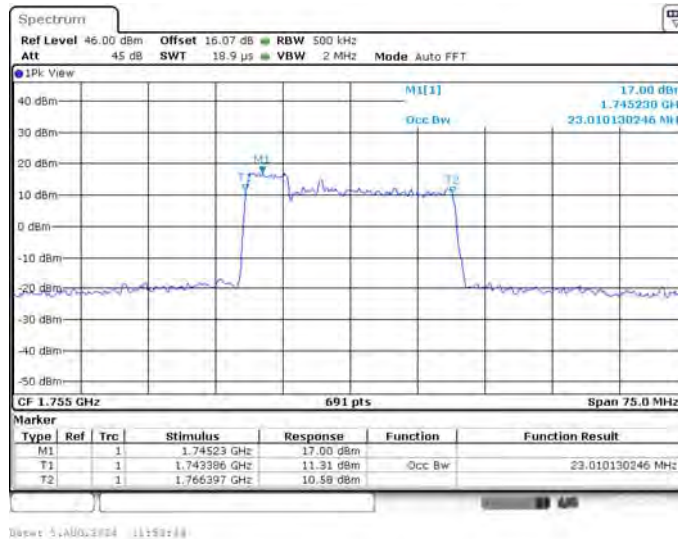
LTE CA band 66C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.010	23.010

LTE CA band 66C , 5MHz+20MHz Bandwidth,QPSK (99% BW)



LTE CA band 66C , 5MHz+20MHz Bandwidth,16QAM (99% BW)



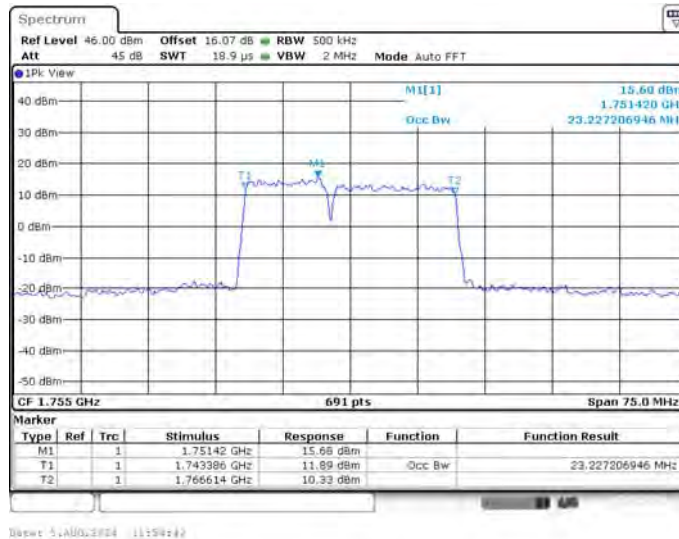
LTE CA band 66C, 10MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.227	23.227

LTE CA band 66C , 10MHz+15MHz Bandwidth,QPSK (99% BW)



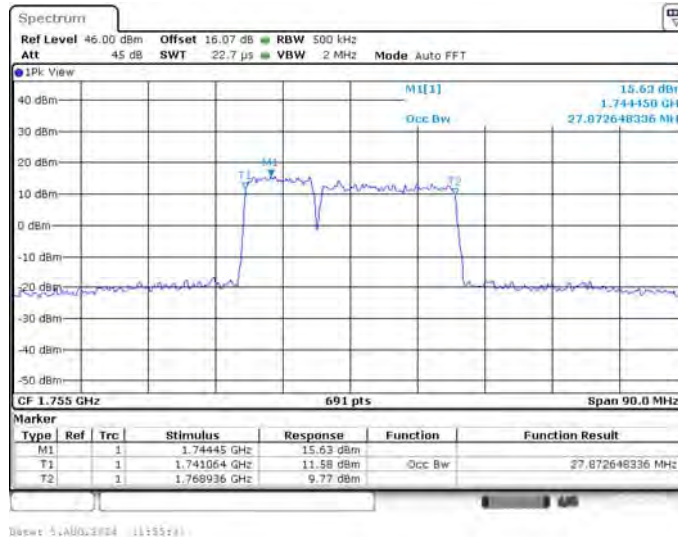
LTE CA band 66C , 10MHz+15MHz Bandwidth,16QAM (99% BW)



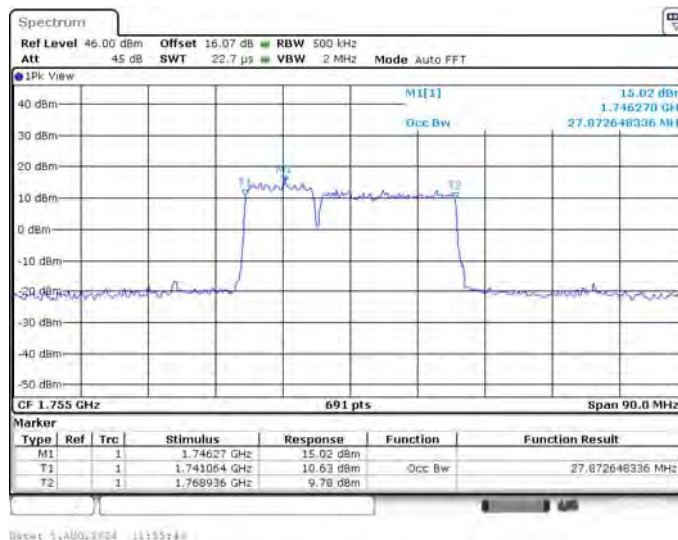
LTE CA band 66C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.873	27.873

LTE CA band 66C , 10MHz+20MHz Bandwidth,QPSK (99% BW)

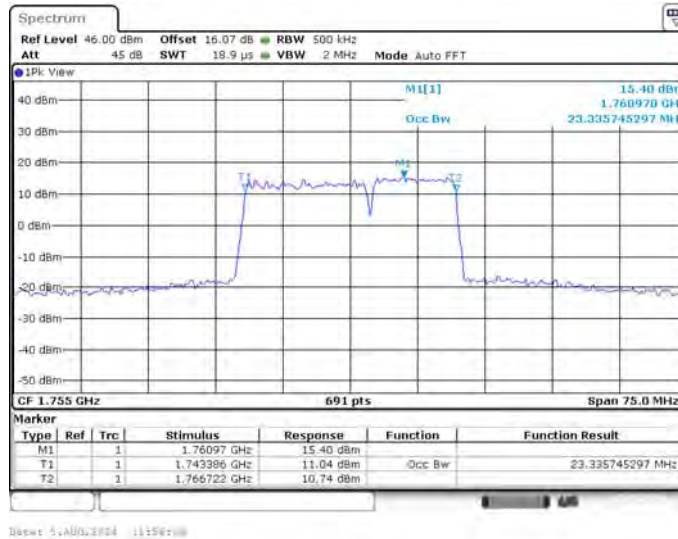
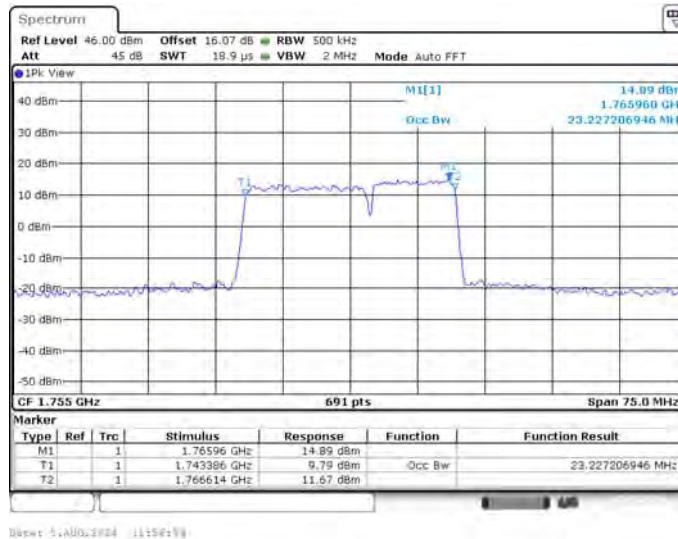


LTE CA band 66C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



LTE CA band 66C, 15MHz+10MHz(99%)

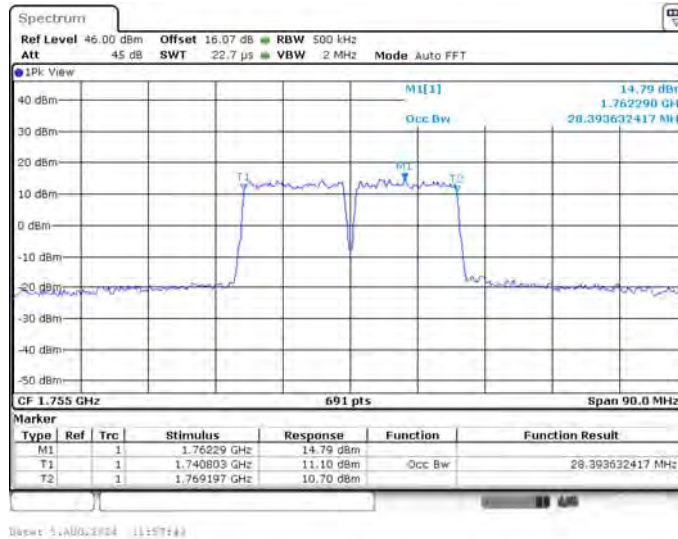
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.336	23.227

LTE CA band 66C , 15MHz+10MHz Bandwidth,QPSK (99% BW)

LTE CA band 66C , 15MHz+10MHz Bandwidth,16QAM (99% BW)


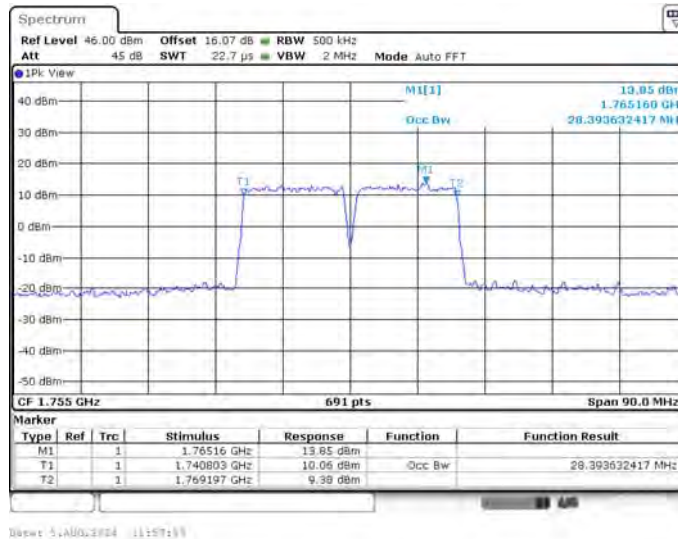
LTE CA band 66C, 15MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	28.394	28.394

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



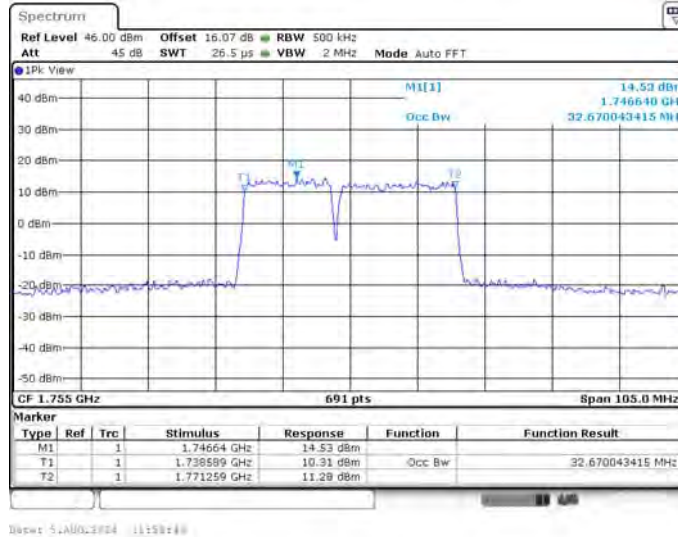
LTE CA band 66C , 15MHz+15MHz Bandwidth,16QAM (99% BW)



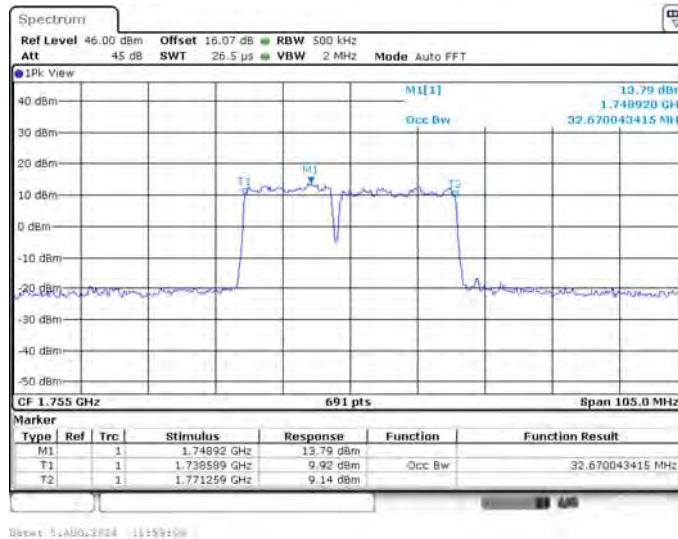
LTE CA band 66C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.670	32.670

LTE CA band 66C , 15MHz+20MHz Bandwidth,QPSK (99% BW)



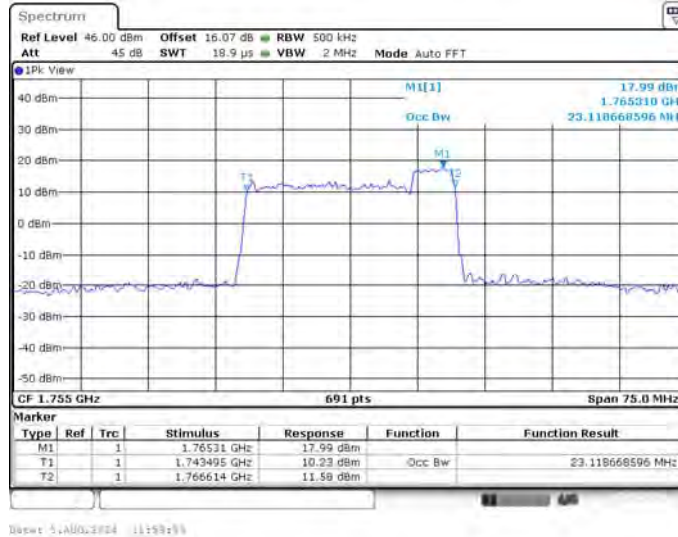
LTE CA band 66C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



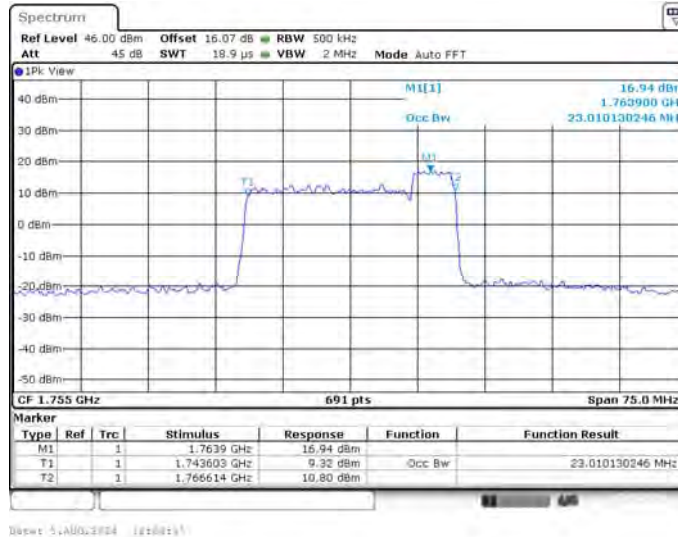
LTE CA band 66C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.119	23.010

LTE CA band 66C , 20MHz+5MHz Bandwidth,QPSK (99% BW)

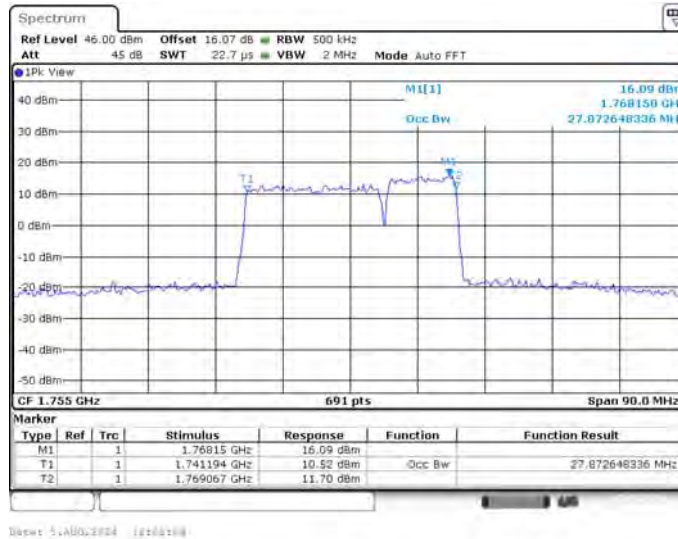
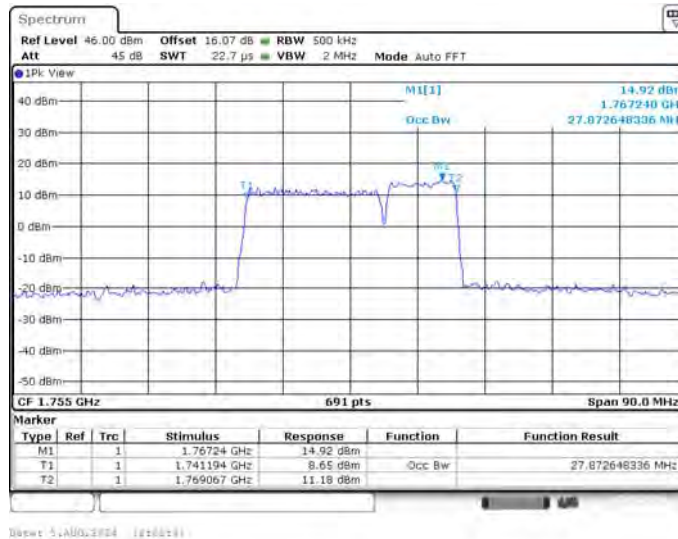


LTE CA band 66C , 20MHz+5MHz Bandwidth,16QAM (99% BW)



LTE CA band 66C, 20MHz+10MHz(99%)

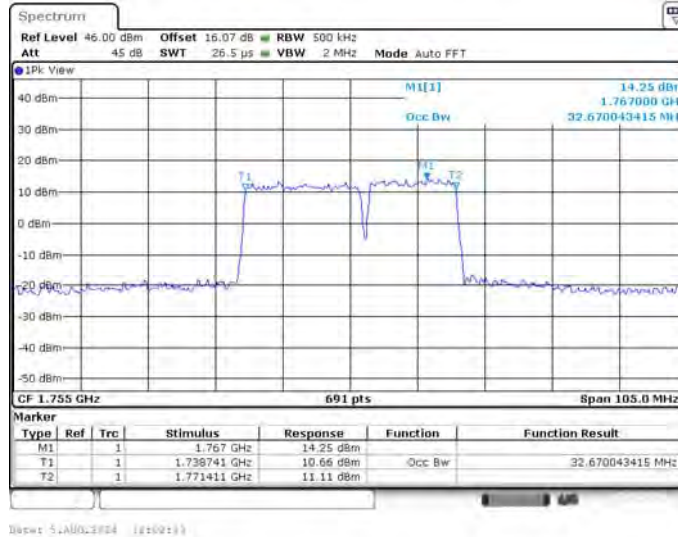
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.873	27.873

LTE CA band 66C , 20MHz+10MHz Bandwidth,QPSK (99% BW)

LTE CA band 66C , 20MHz+10MHz Bandwidth,16QAM (99% BW)


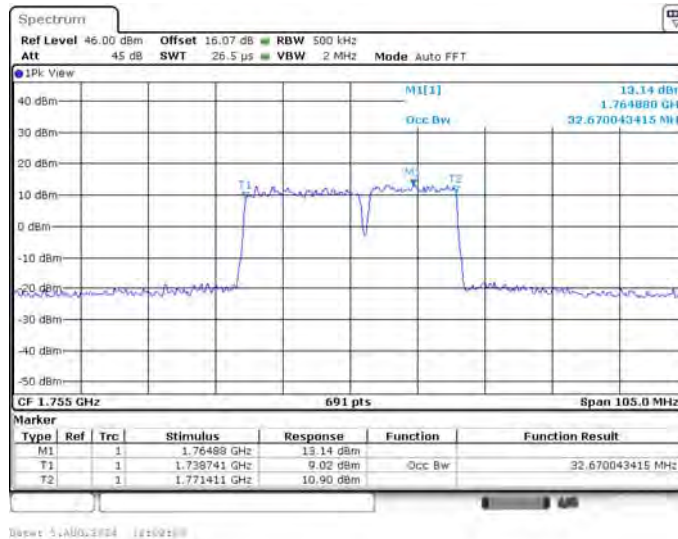
LTE CA band 66C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.670	32.670

LTE CA band 66C , 20MHz+15MHz Bandwidth,QPSK (99% BW)

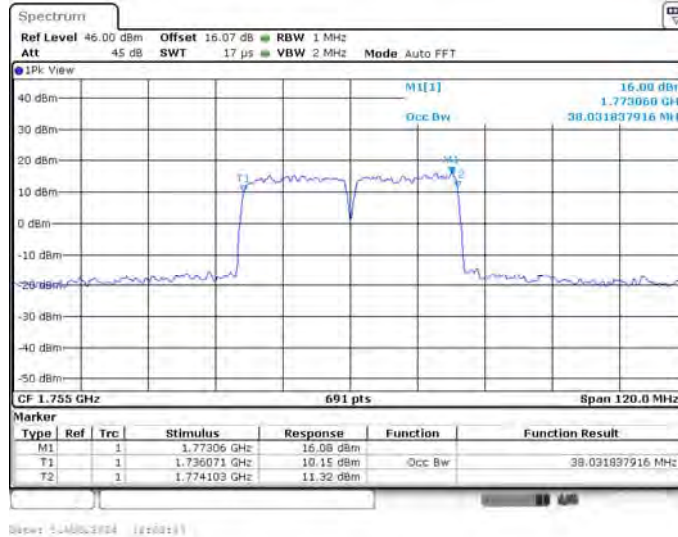
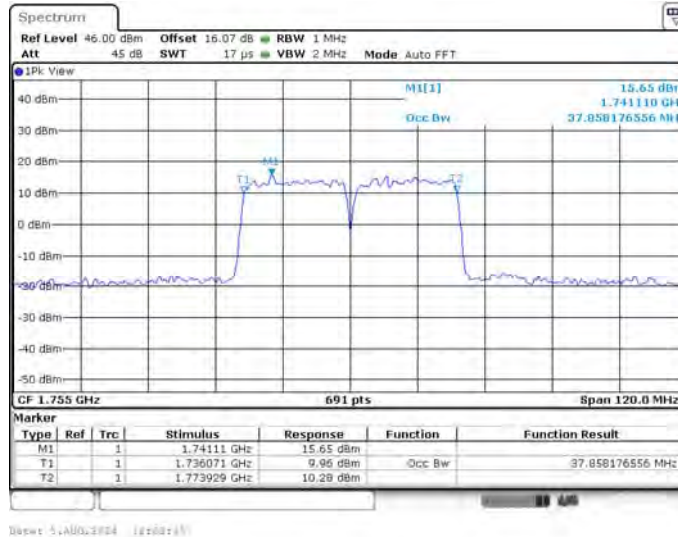


LTE CA band 66C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



LTE CA band 66C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	38.032	37.858

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

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


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.

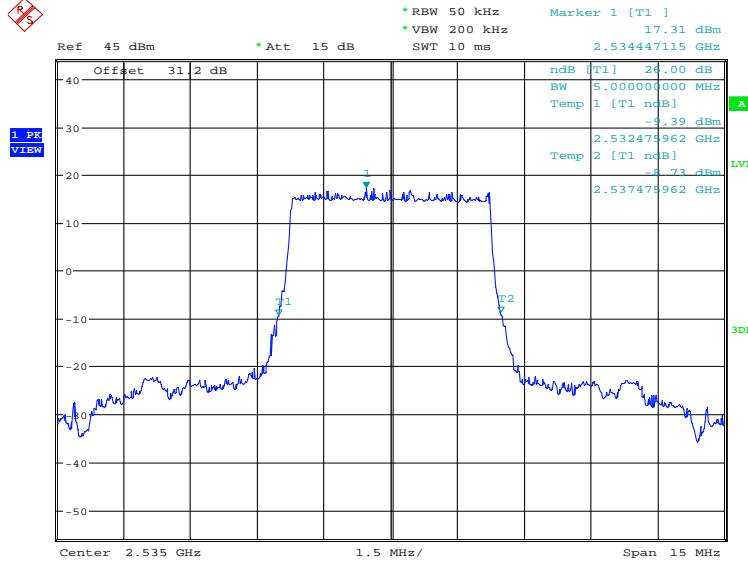
The measurement method is from ANSI C63.26:

- 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.

LTE band 7, 5MHz (-26dBc)

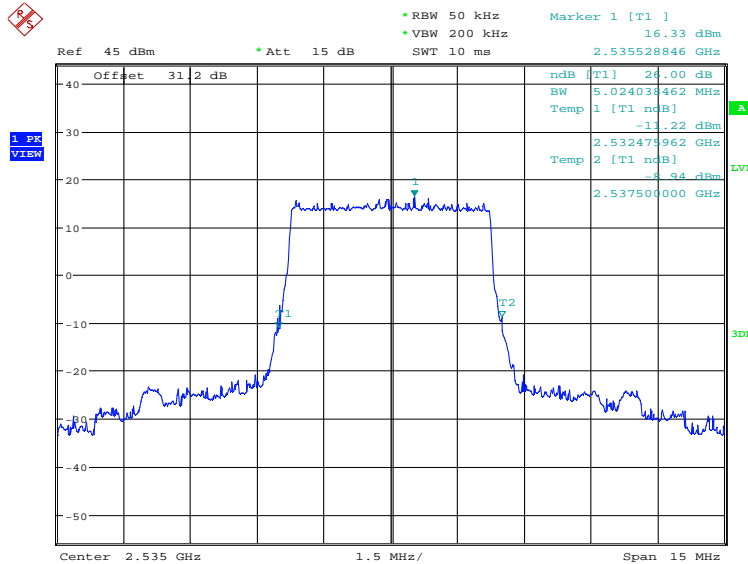
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	5000.00	5024.04

LTE band 7, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 1.AUG.2024 11:18:44

LTE band 7, 5MHz Bandwidth,16QAM (-26dBc BW)

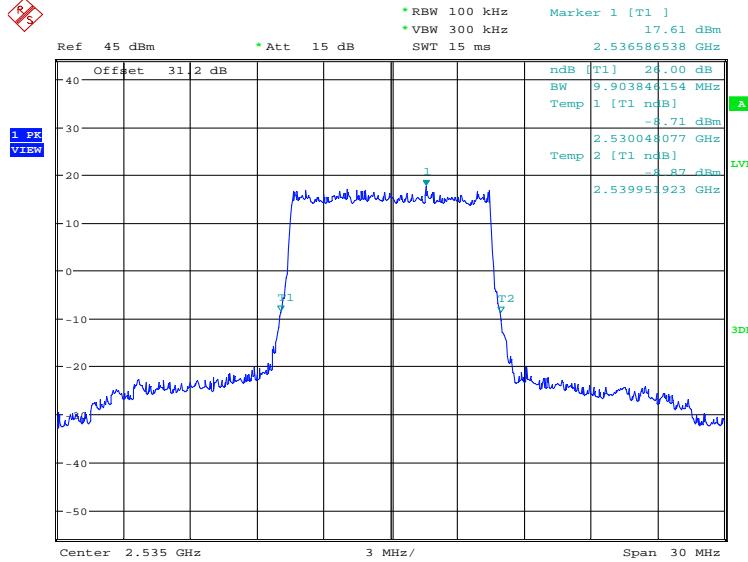


Date: 1.AUG.2024 11:19:24

LTE band 7, 10MHz (-26dBc)

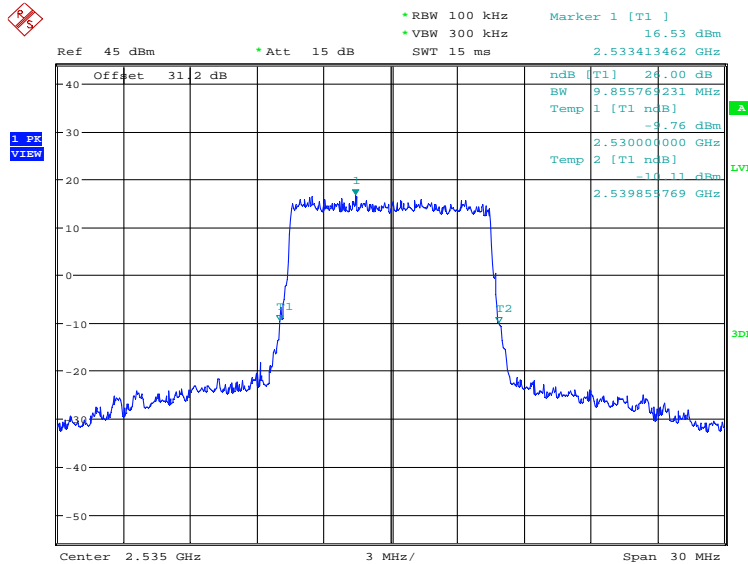
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9903.85	9855.77

LTE band 7, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 1.AUG.2024 11:20:08

LTE band 7, 10MHz Bandwidth, 16QAM (-26dBc BW)

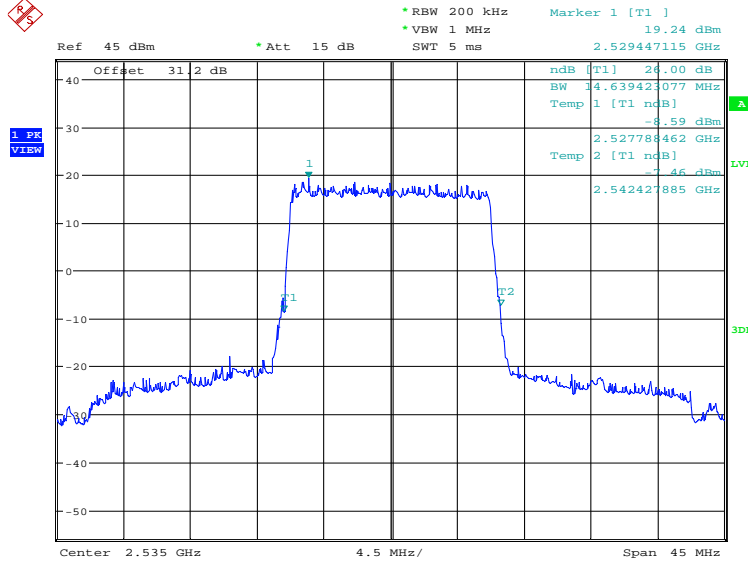


Date: 1.AUG.2024 11:20:48

LTE band 7, 15MHz (-26dBc)

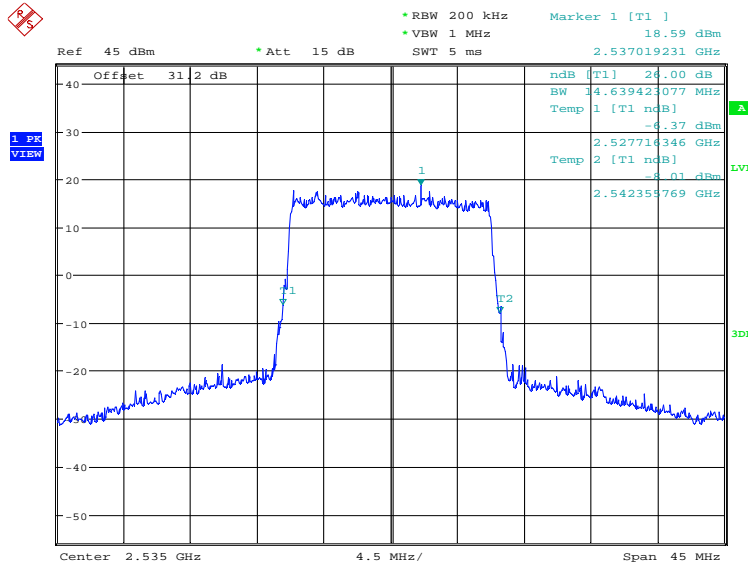
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14639.42	14639.42

LTE band 7, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 1.AUG.2024 11:21:32

LTE band 7, 15MHz Bandwidth, 16QAM (-26dBc BW)

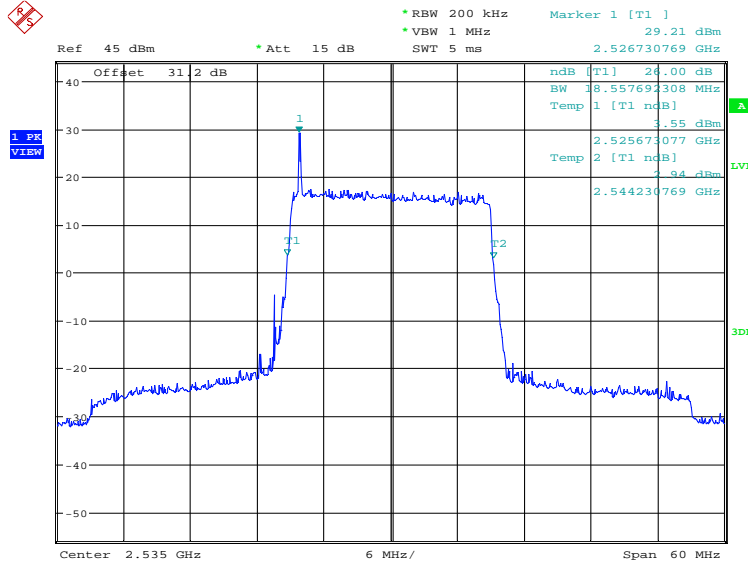


Date: 1.AUG.2024 11:22:12

LTE band 7, 20MHz (-26dBc)

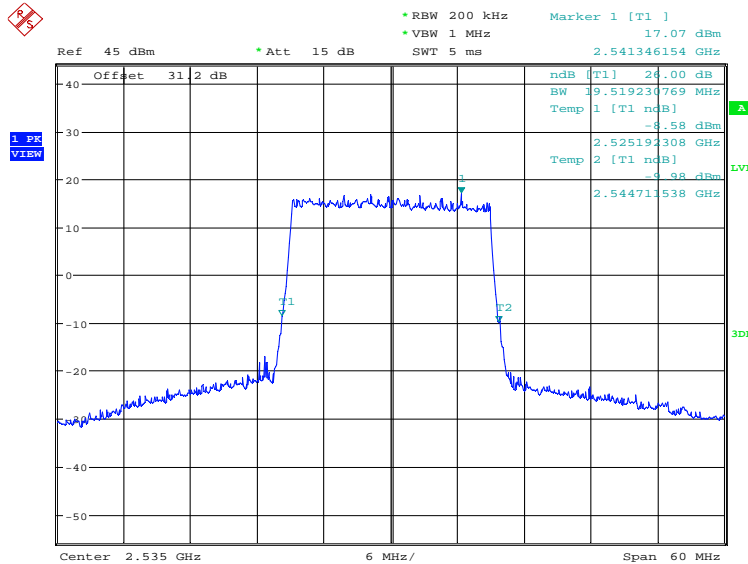
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	1857.69	19519.23

LTE band 7, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 1.AUG.2024 11:22:56

LTE band 7, 20MHz Bandwidth, 16QAM (-26dBc BW)

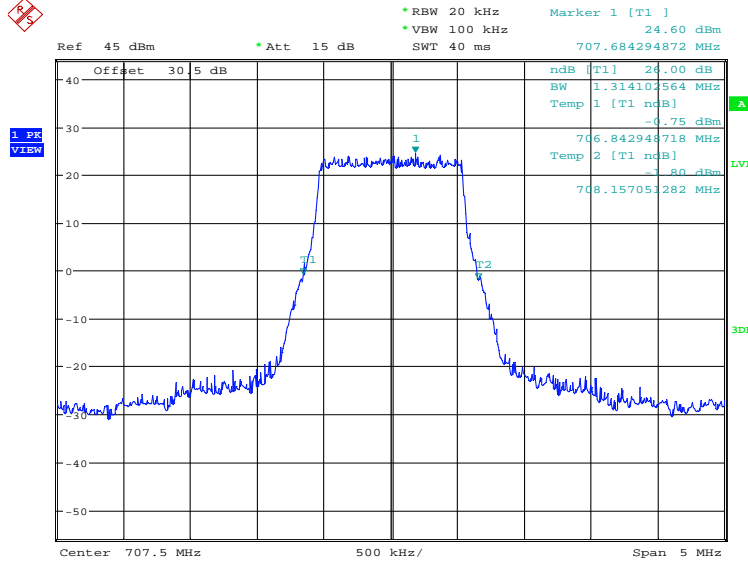


Date: 1.AUG.2024 11:23:36

LTE band 12, 1.4MHz (-26dBc)

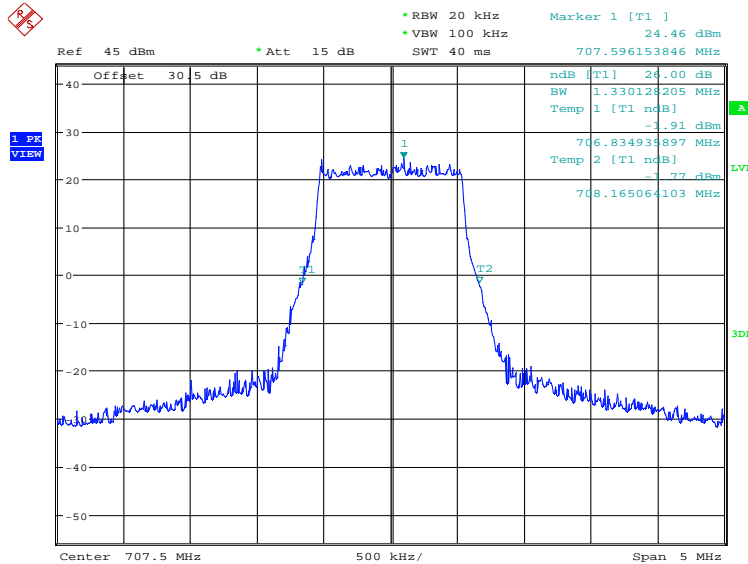
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1314.10	1330.13

LTE band 12, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:03:57

LTE band 12, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

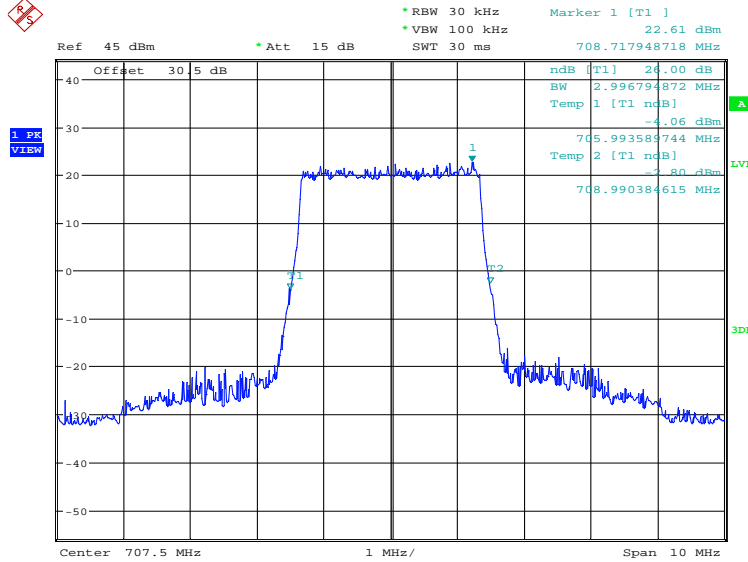


Date: 29.JUL.2024 15:04:37

LTE band 12, 3MHz (-26dBc)

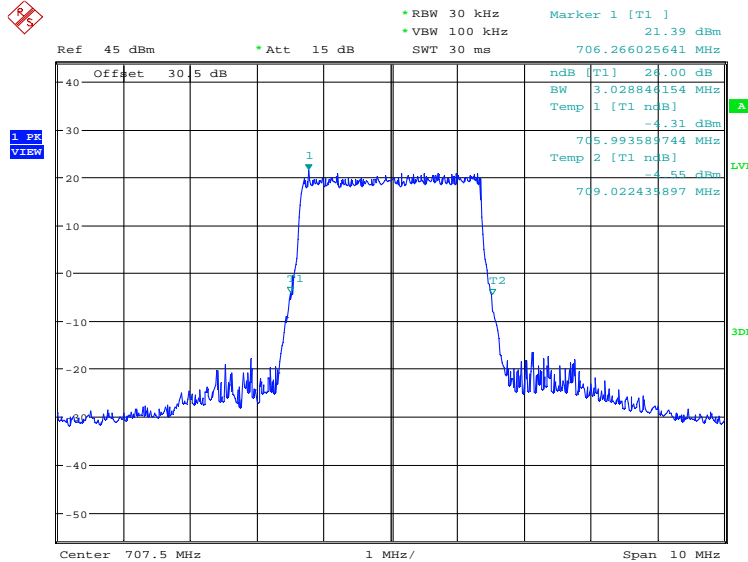
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2996.79	3028.85

LTE band 12, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:05:19

LTE band 12, 3MHz Bandwidth, 16QAM (-26dBc BW)

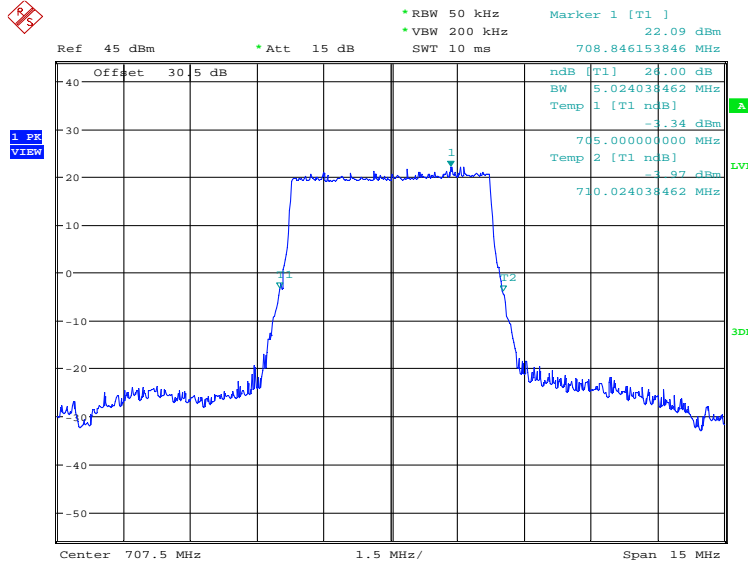


Date: 29.JUL.2024 15:05:59

LTE band 12, 5MHz (-26dBc)

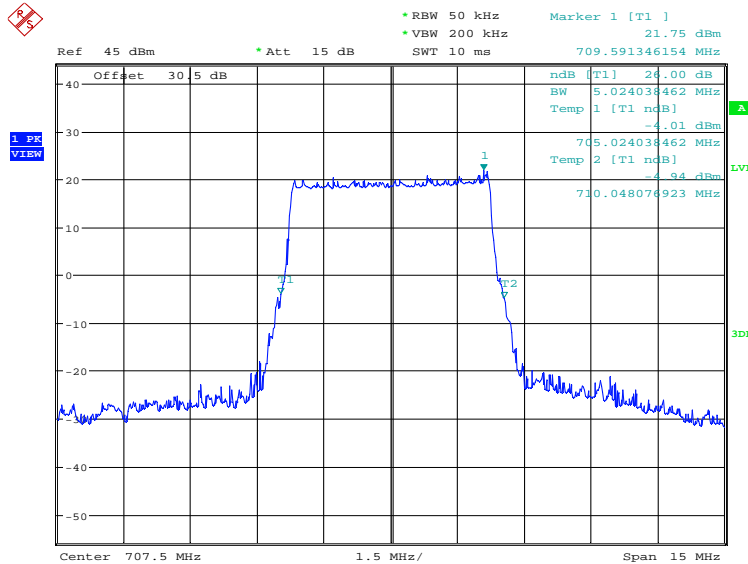
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	5024.04	5024.04

LTE band 12, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:06:41

LTE band 12, 5MHz Bandwidth, 16QAM (-26dBc BW)

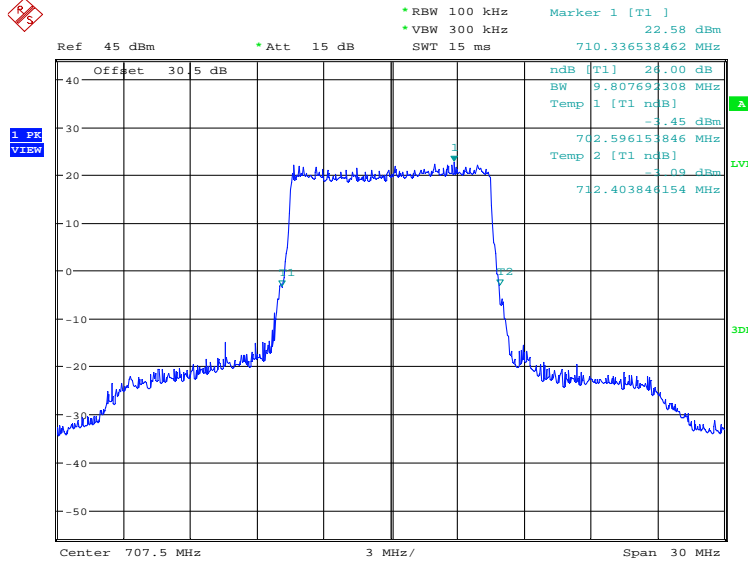


Date: 29.JUL.2024 15:07:22

LTE band 12, 10MHz (-26dBc)

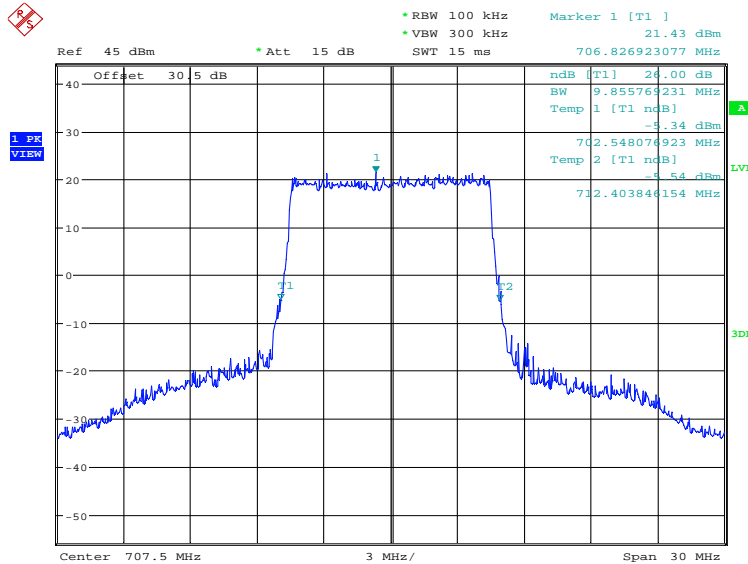
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9807.69	9855.77

LTE band 12, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:08:04

LTE band 12, 10MHz Bandwidth, 16QAM (-26dBc BW)

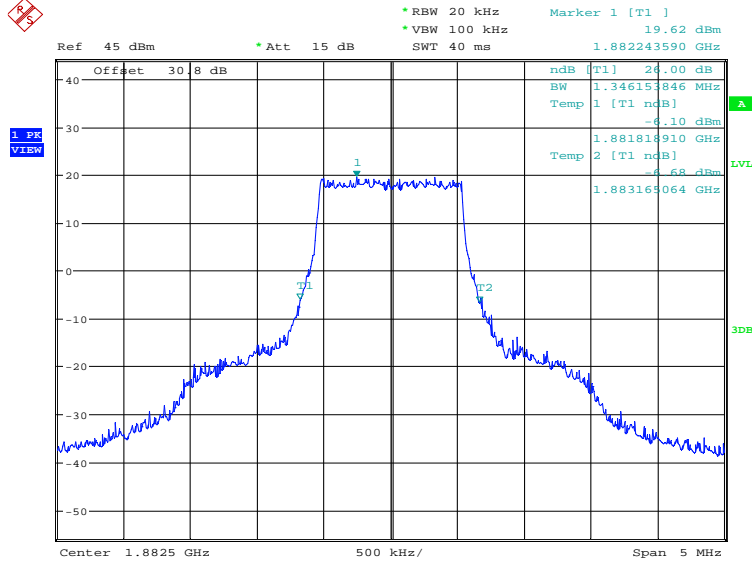


Date: 29.JUL.2024 15:08:44

LTE band 25, 1.4MHz (-26dBc)

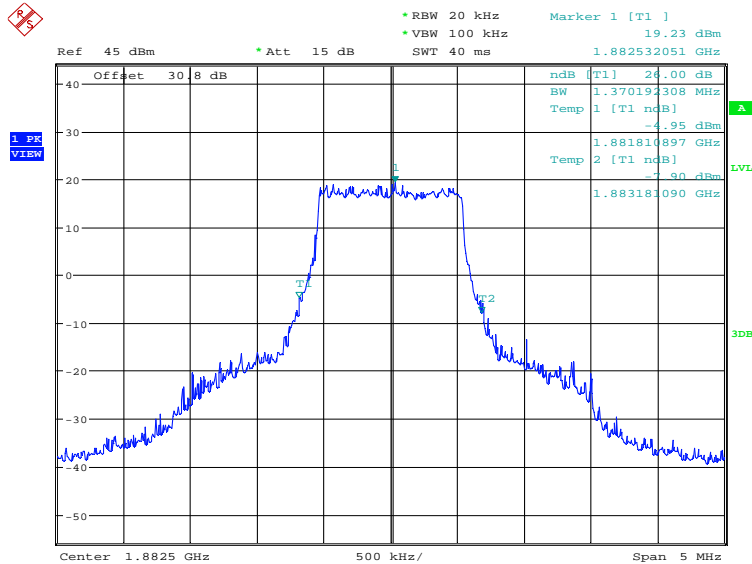
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1346.15	1370.19

LTE band 25, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 30.JUL.2024 08:59:03

LTE band 25, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

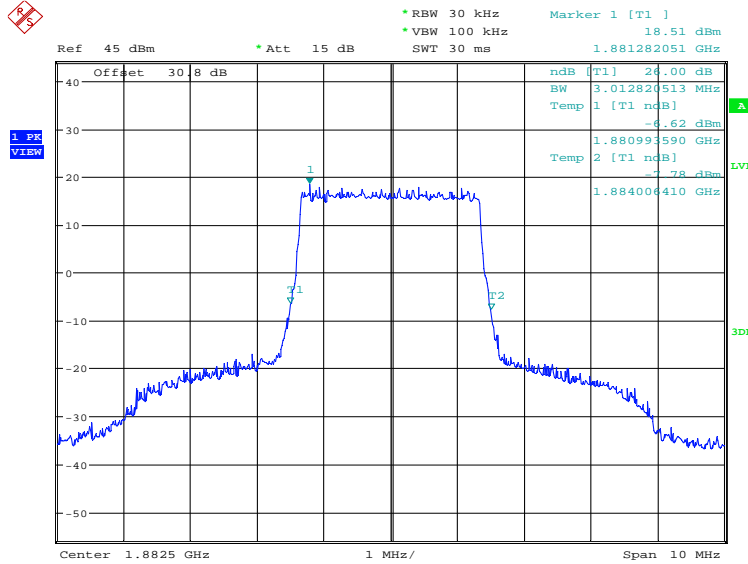


Date: 30.JUL.2024 08:59:43

LTE band 25, 3MHz (-26dBc)

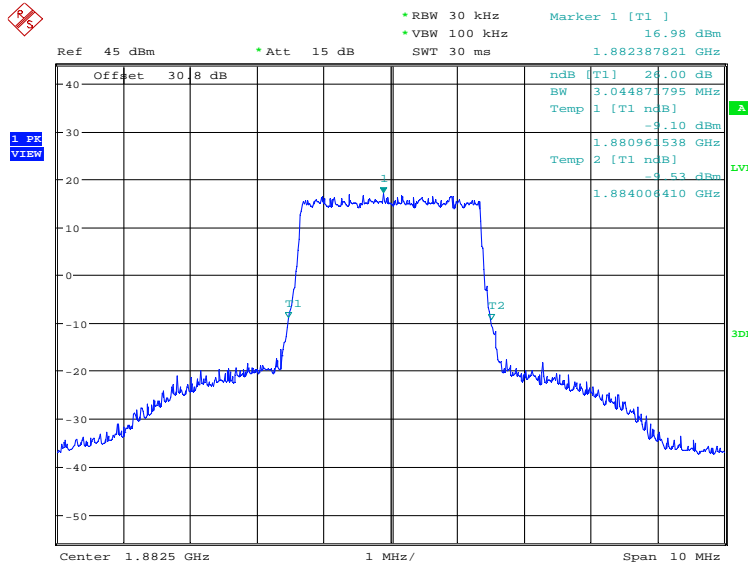
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	3012.82	3044.87

LTE band 25, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 30.JUL.2024 09:00:25

LTE band 25, 3MHz Bandwidth, 16QAM (-26dBc BW)

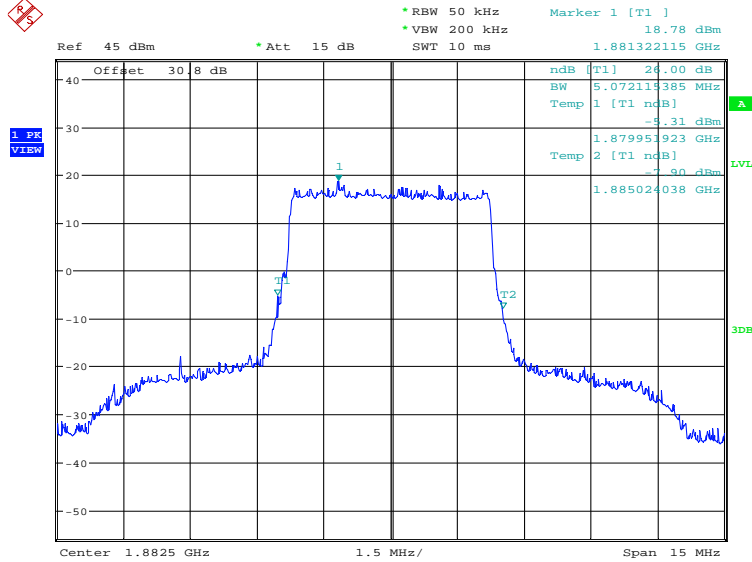


Date: 30.JUL.2024 09:01:05

LTE band 25, 5MHz (-26dBc)

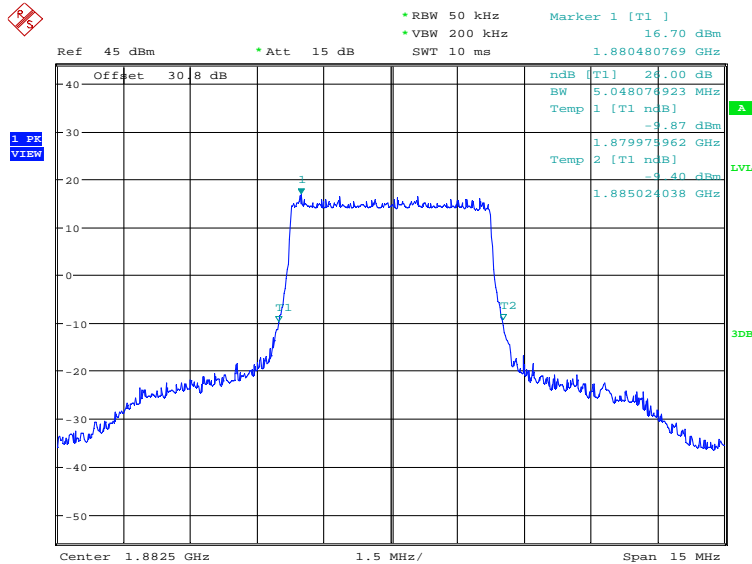
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	5072.12	5048.08

LTE band 25, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 30.JUL.2024 09:01:47

LTE band 25, 5MHz Bandwidth, 16QAM (-26dBc BW)

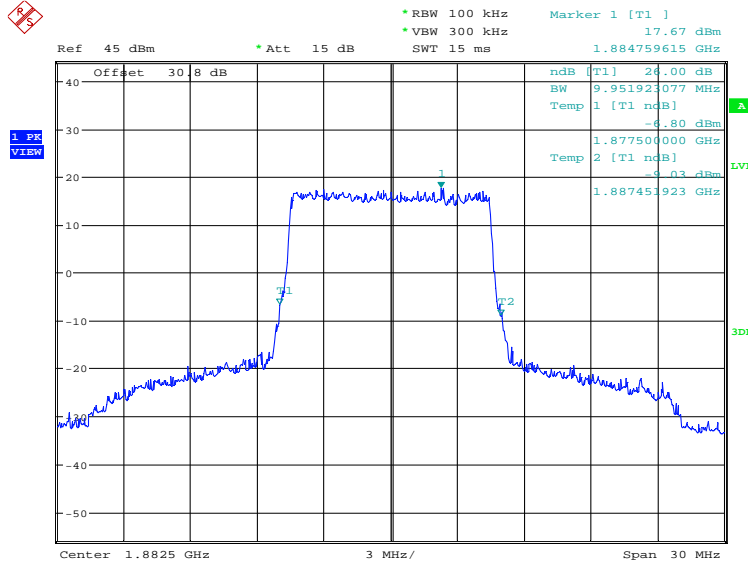


Date: 30.JUL.2024 09:02:27

LTE band 25, 10MHz (-26dBc)

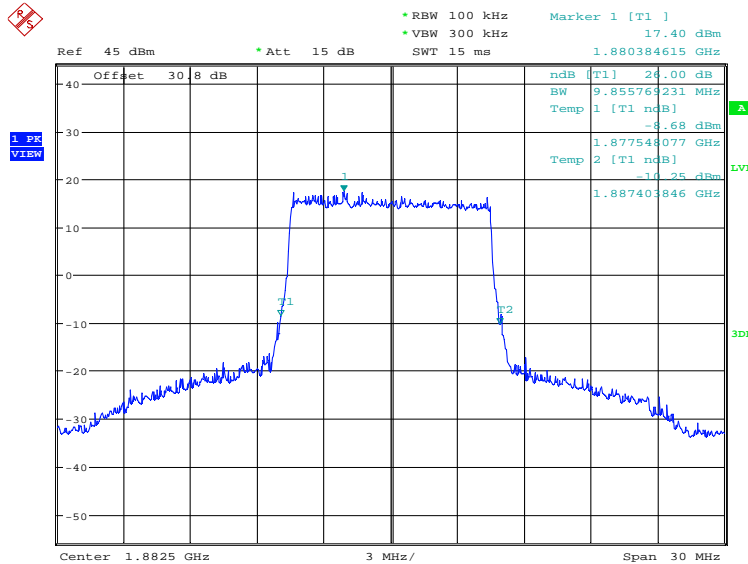
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9951.92	9855.77

LTE band 25, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 30.JUL.2024 09:03:09

LTE band 25, 10MHz Bandwidth, 16QAM (-26dBc BW)

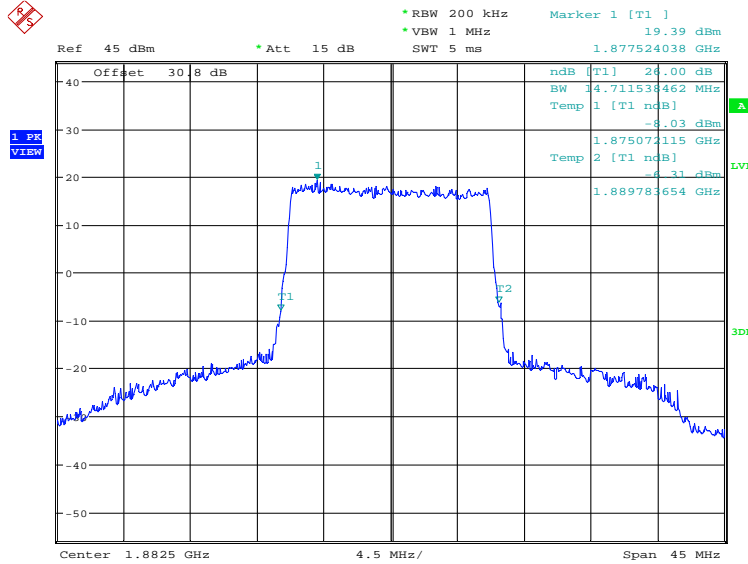


Date: 30.JUL.2024 09:03:50

LTE band 25, 15MHz (-26dBc)

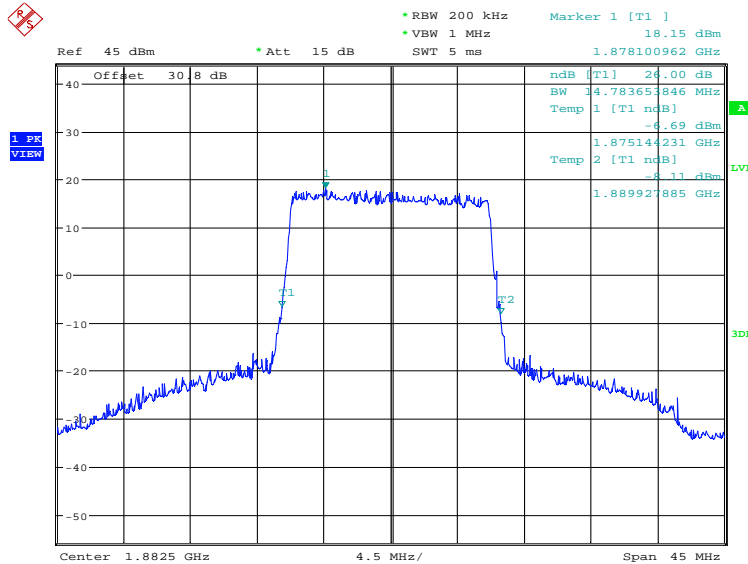
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14711.54	14783.65

LTE band 25, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 30.JUL.2024 09:04:31

LTE band 25, 15MHz Bandwidth, 16QAM (-26dBc BW)

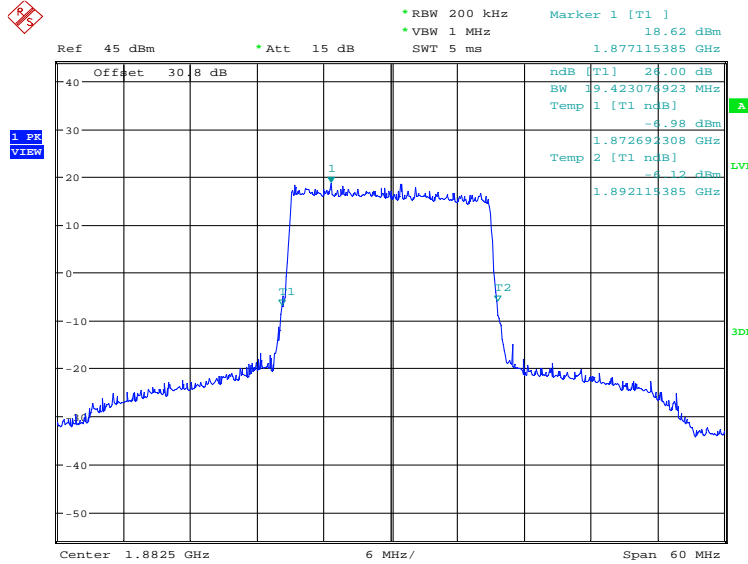


Date: 30.JUL.2024 09:05:11

LTE band 25, 20MHz (-26dBc)

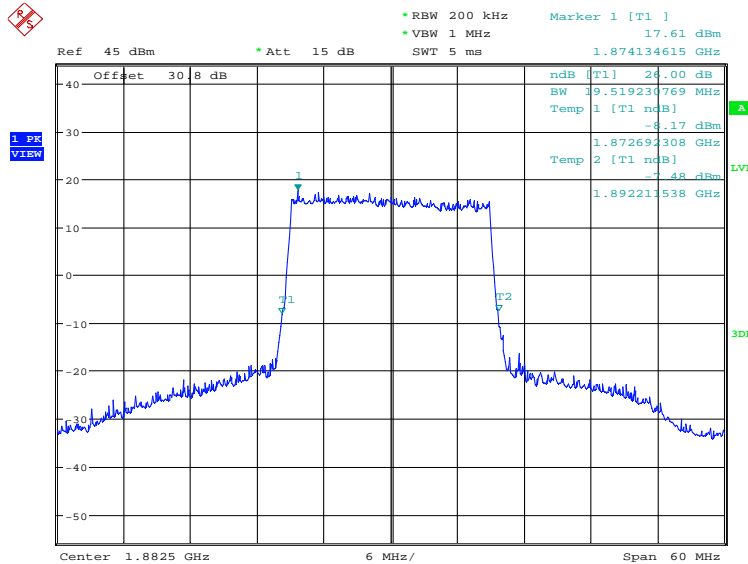
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19423.08	19519.23

LTE band 25, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 30.JUL.2024 09:05:54

LTE band 25, 20MHz Bandwidth, 16QAM (-26dBc BW)

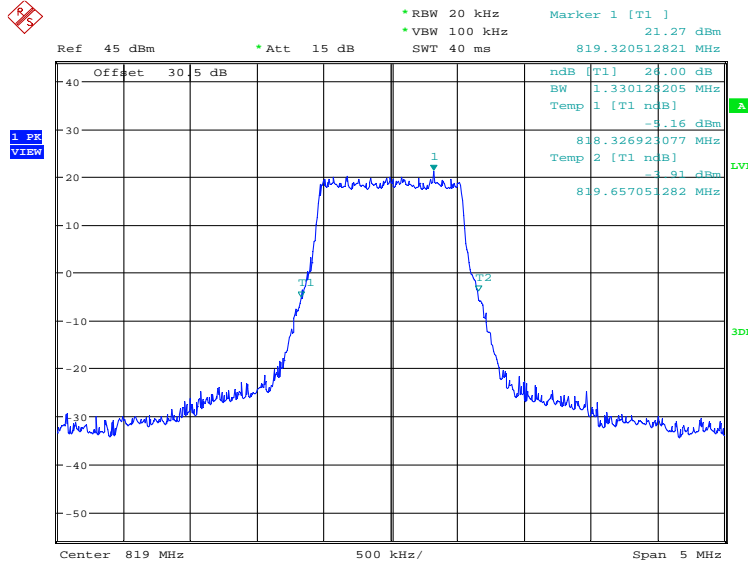


Date: 30.JUL.2024 09:06:34

LTE band 26(814MHz~824MHz), 1.4MHz (-26dBc)

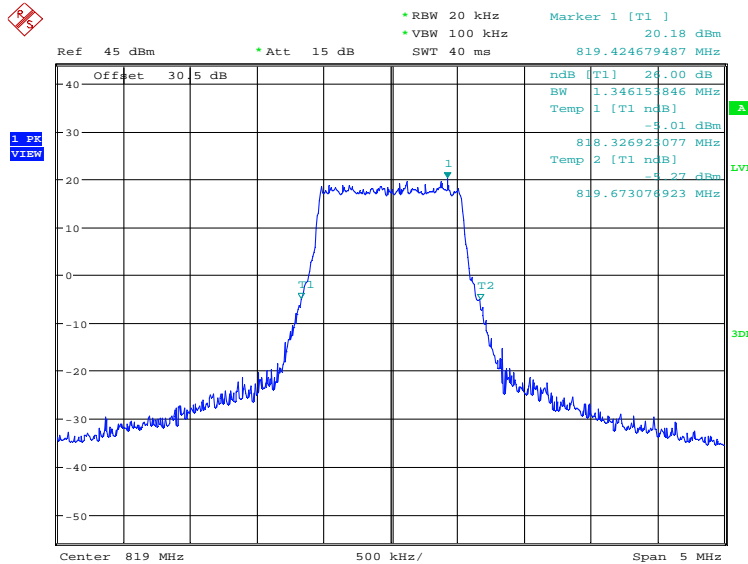
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1330.13	1346.15

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:17:58

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)

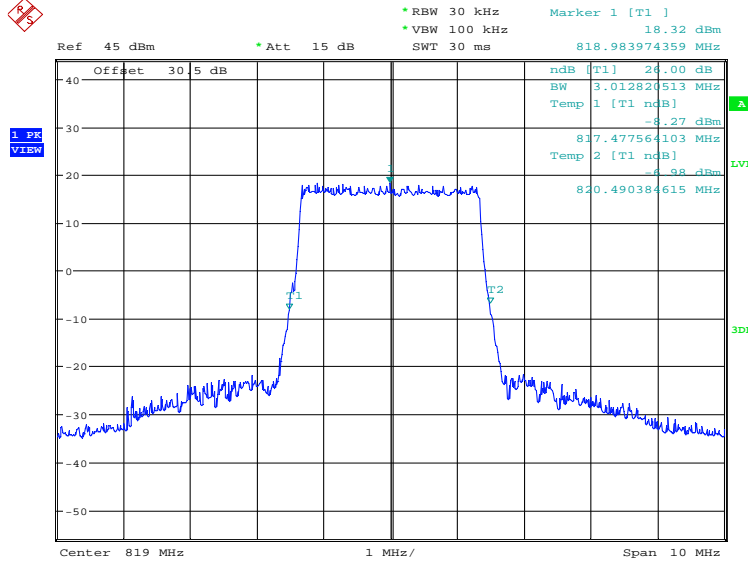


Date: 29.JUL.2024 15:18:39

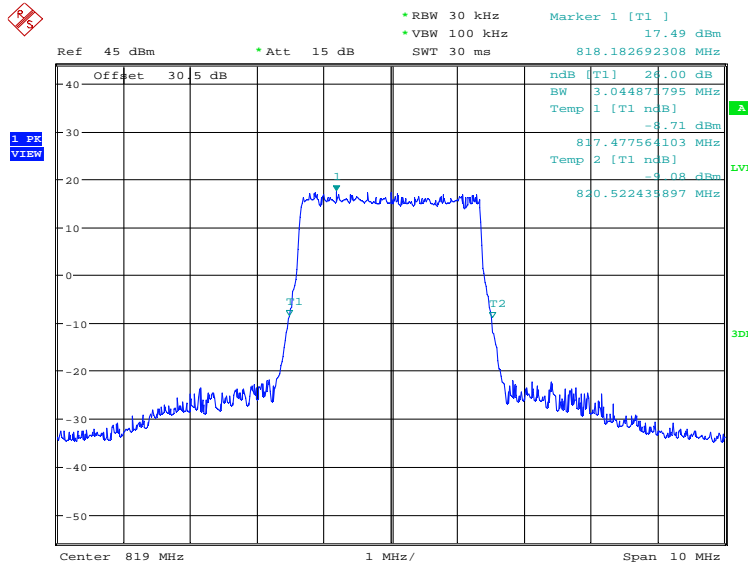
LTE band 26(814MHz~824MHz), 3MHz (-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	3012.82	3044.87

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



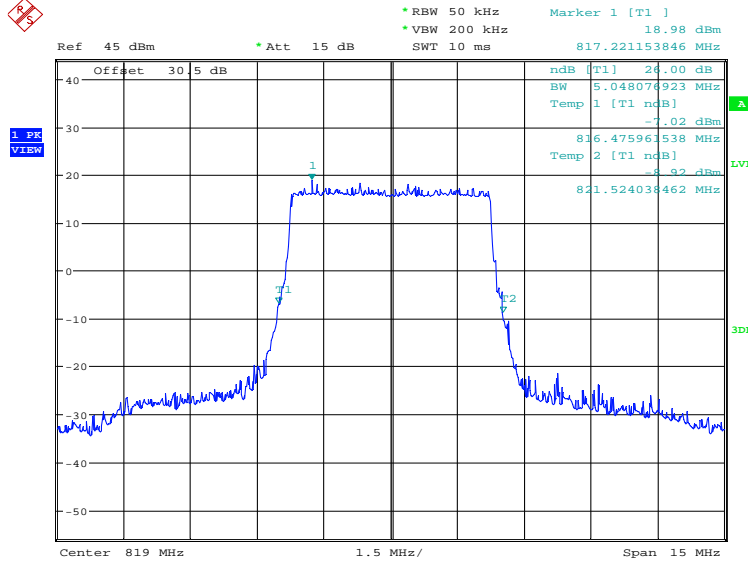
LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)



LTE band 26(814MHz~824MHz), 5MHz (-26dBc)

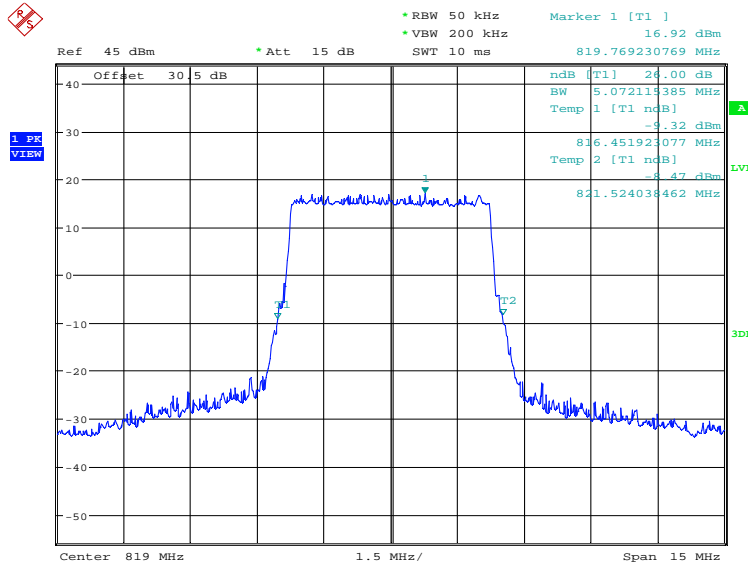
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	5048.08	5072.12

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:20:43

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

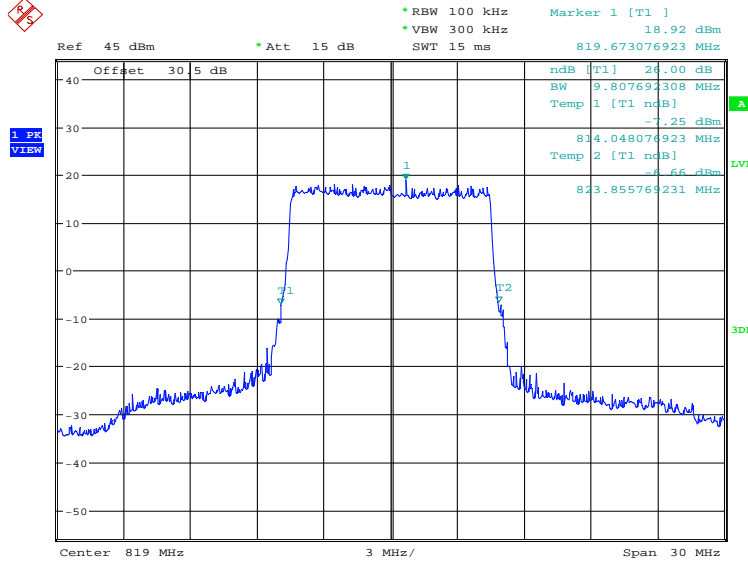


Date: 29.JUL.2024 15:21:23

LTE band 26(814MHz~824MHz), 10MHz (-26dBc)

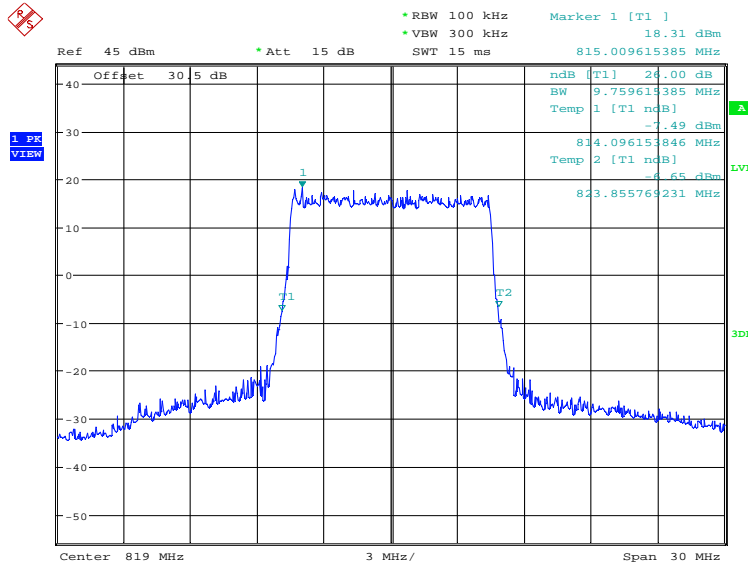
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9807.69	9759.62

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:22:06

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

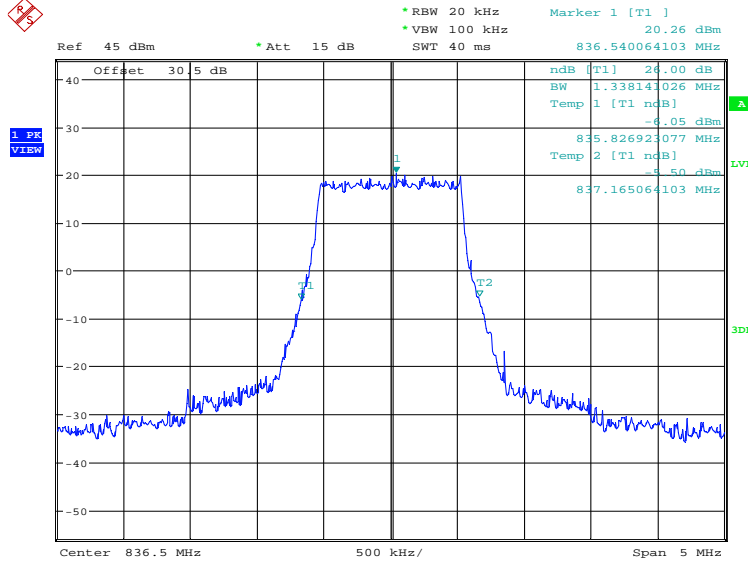


Date: 29.JUL.2024 15:22:46

LTE band 26(824MHz~849MHz), 1.4MHz (-26dBc)

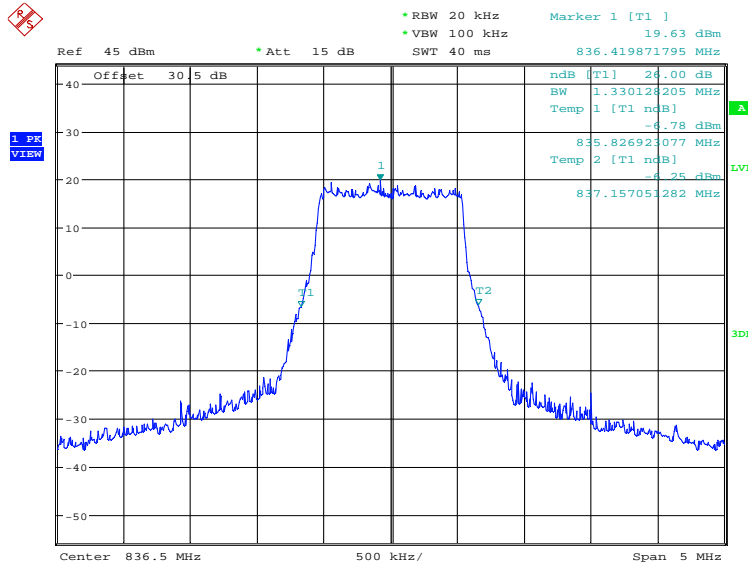
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1338.14	1330.13

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:09:28

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)

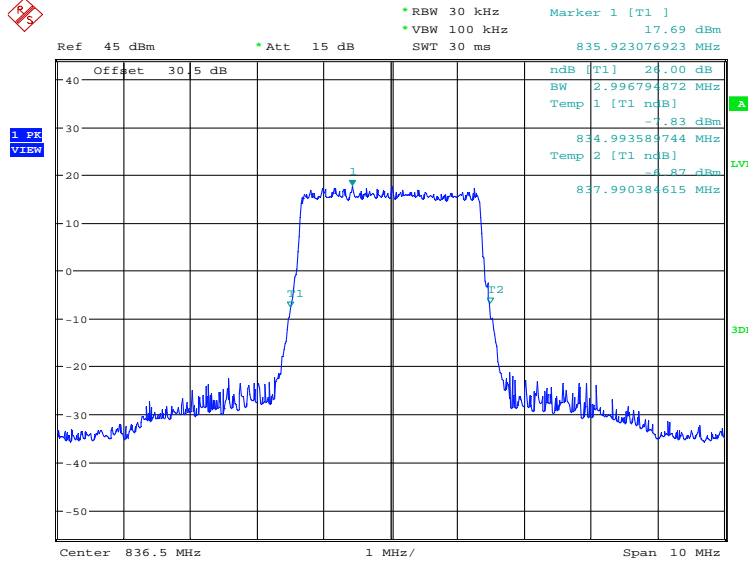


Date: 29.JUL.2024 15:10:08

LTE band 26(824MHz~849MHz), 3MHz (-26dBc)

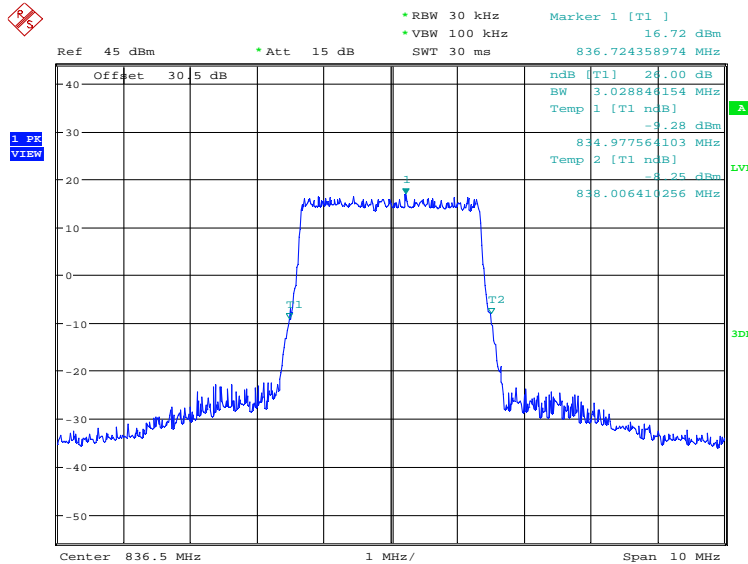
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2996.79	3028.85

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:10:50

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)

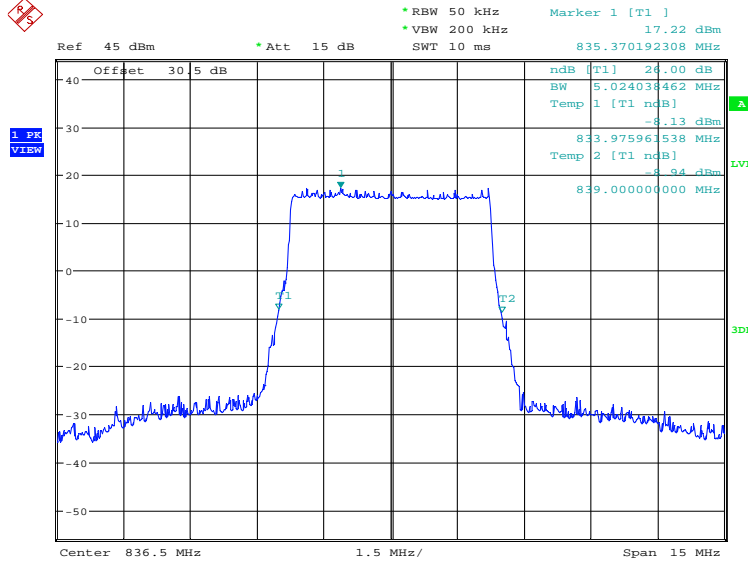


Date: 29.JUL.2024 15:11:30

LTE band 26(824MHz~849MHz), 5MHz (-26dBc)

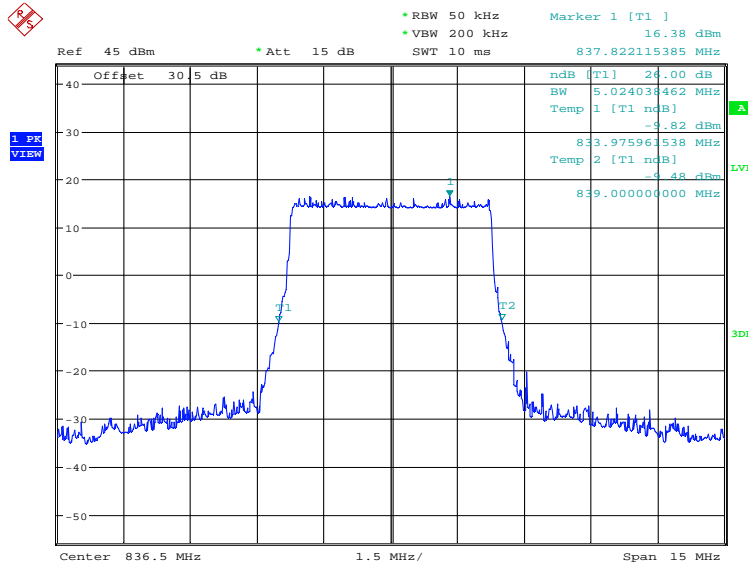
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	5024.04	5024.04

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:12:12

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)

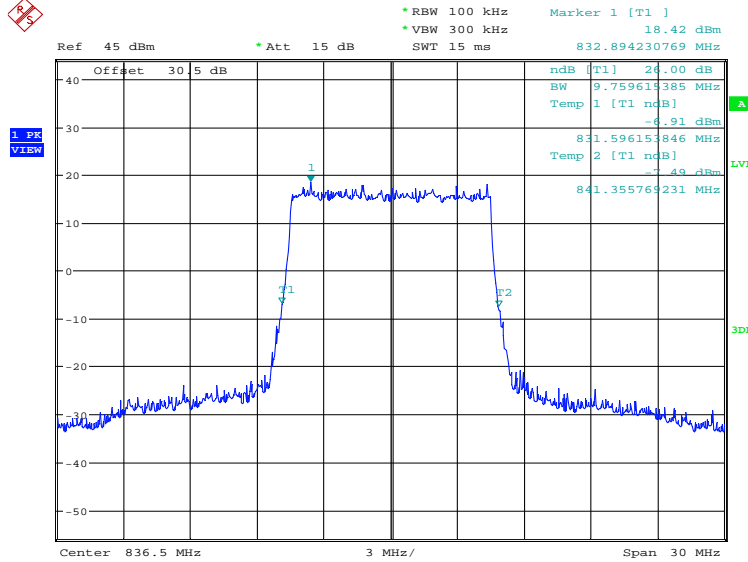


Date: 29.JUL.2024 15:12:52

LTE band 26(824MHz~849MHz), 10MHz (-26dBc)

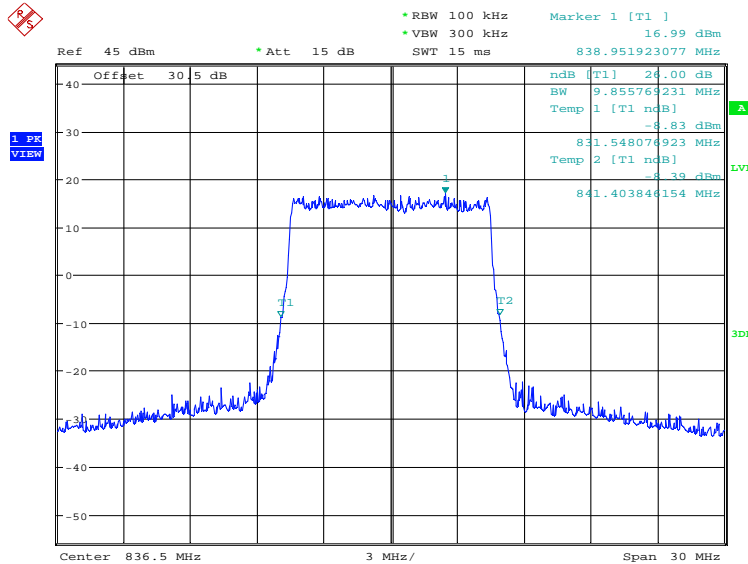
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9759.62	9855.77

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:13:34

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)

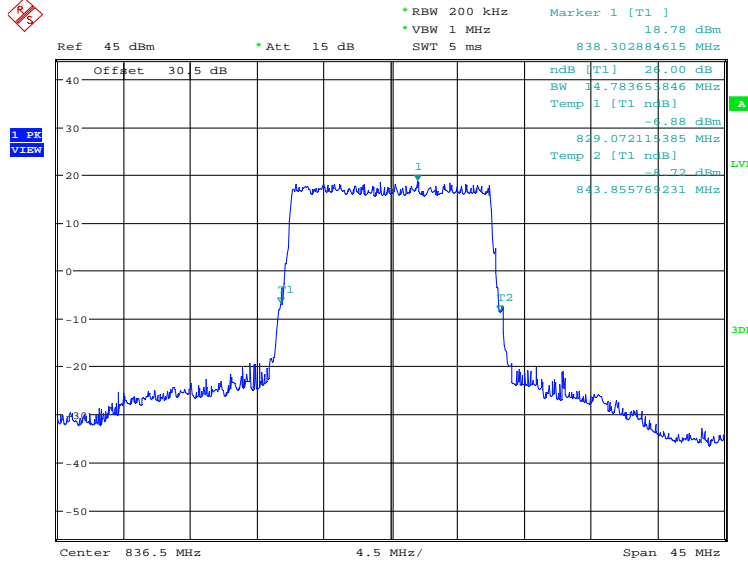


Date: 29.JUL.2024 15:14:15

LTE band 26(824MHz~849MHz), 15MHz (-26dBc)

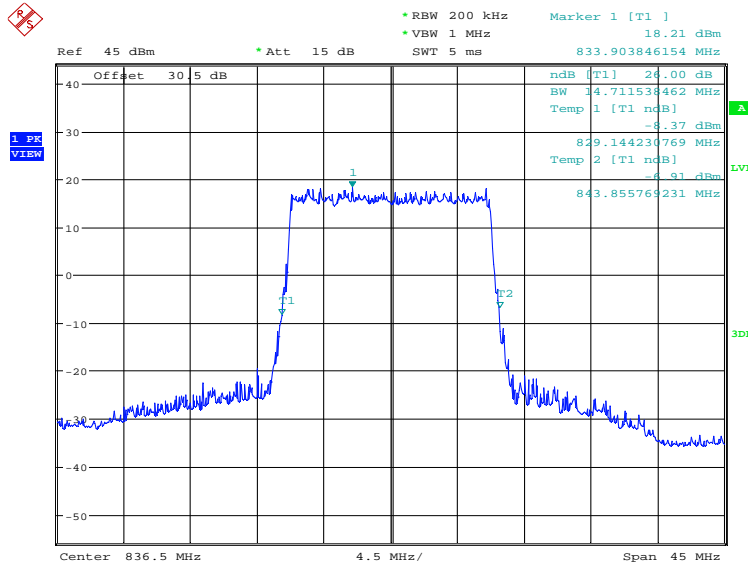
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14783.65	14711.54

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:15:55

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (-26dBc BW)

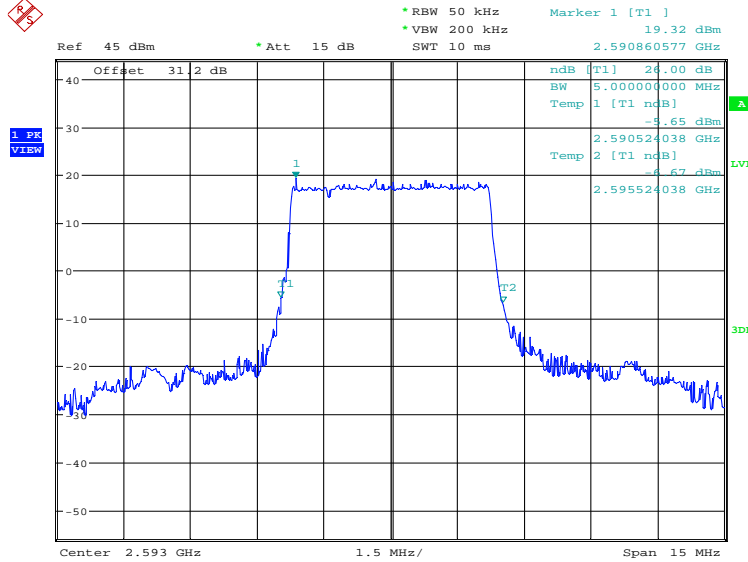


Date: 29.JUL.2024 15:16:35

LTE band 41, 5MHz (-26dBc)

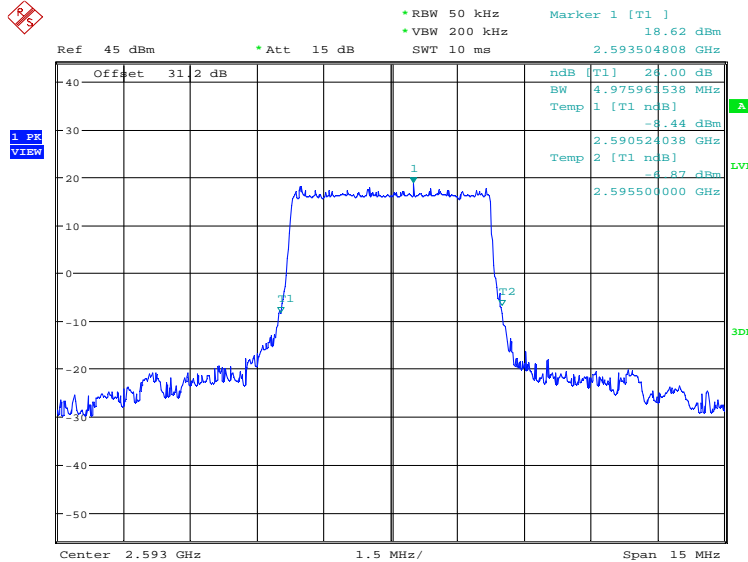
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	5000.00	4975.96

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



Date: 1.AUG.2024 11:25:03

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

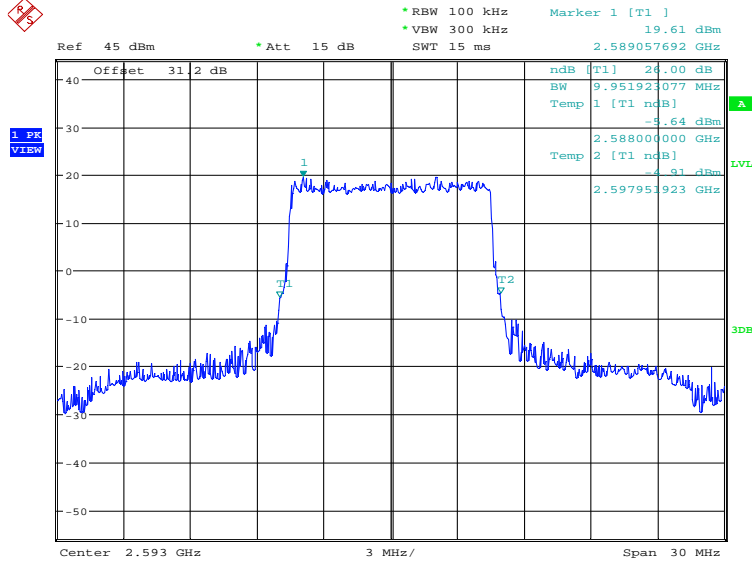


Date: 1.AUG.2024 11:25:43

LTE band 41, 10MHz (-26dBc)

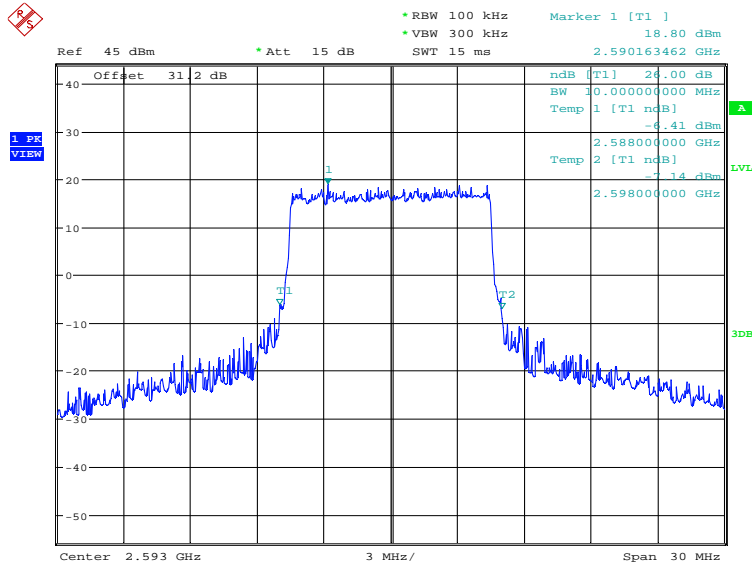
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9951.92	10000.00

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



Date: 1.AUG.2024 11:26:26

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

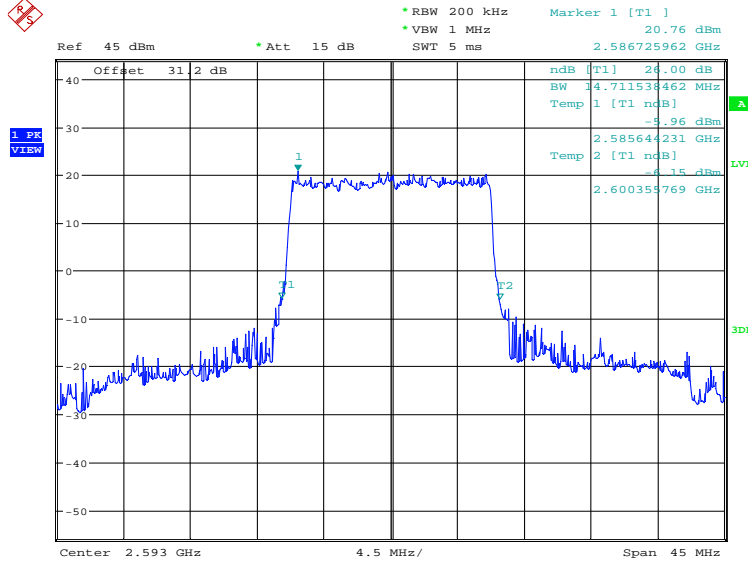


Date: 1.AUG.2024 11:27:06

LTE band 41, 15MHz (-26dBc)

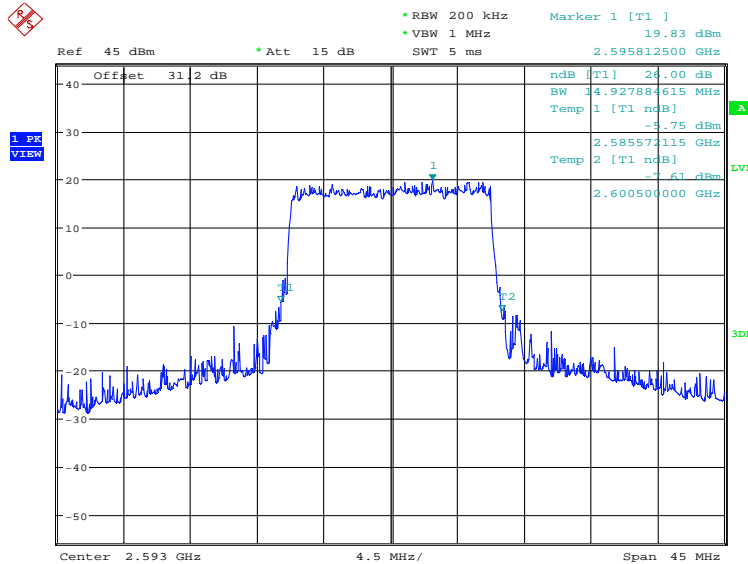
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14711.54	14927.88

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



Date: 1.AUG.2024 11:27:50

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

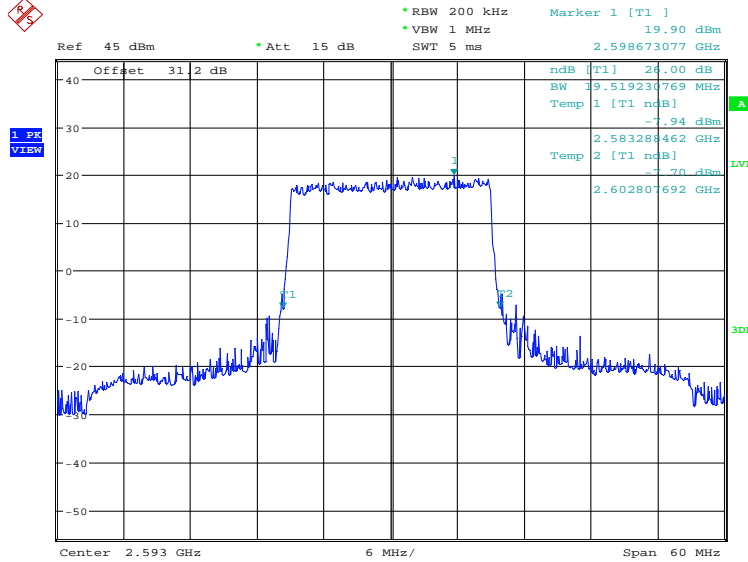


Date: 1.AUG.2024 11:28:30

LTE band 41, 20MHz (-26dBc)

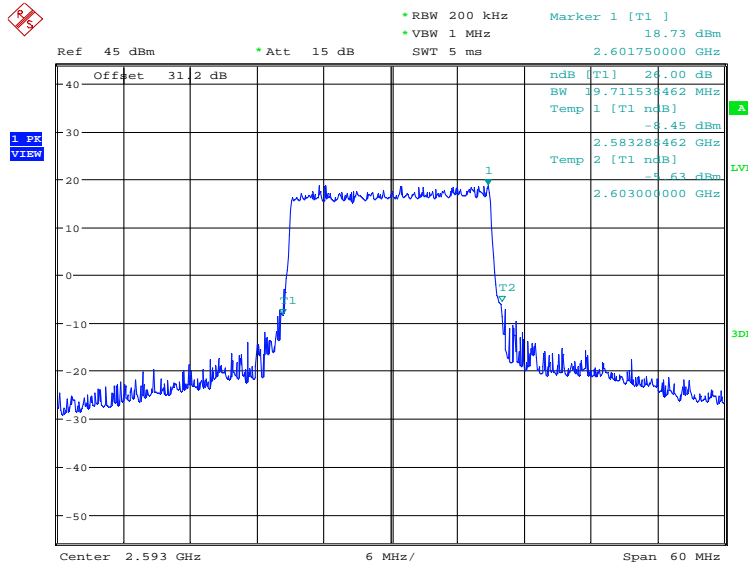
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19519.23	19711.54

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



Date: 1.AUG.2024 11:29:14

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

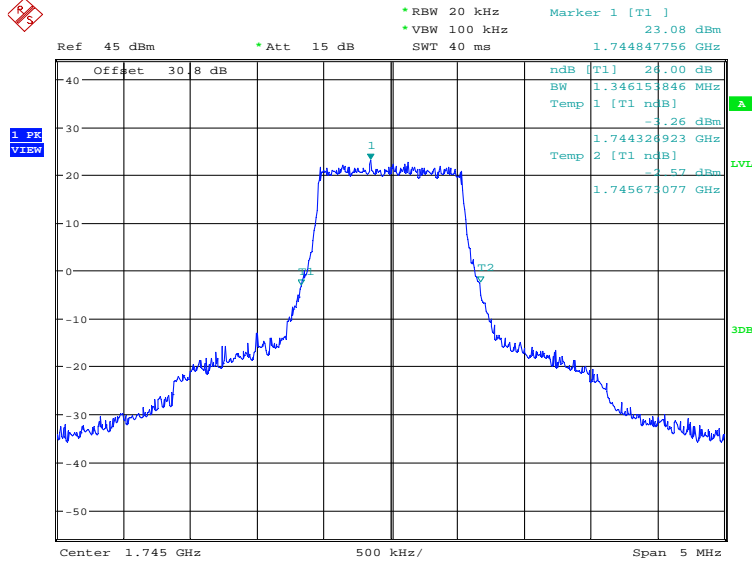


Date: 1.AUG.2024 11:29:54

LTE band 66, 1.4MHz (-26dBc)

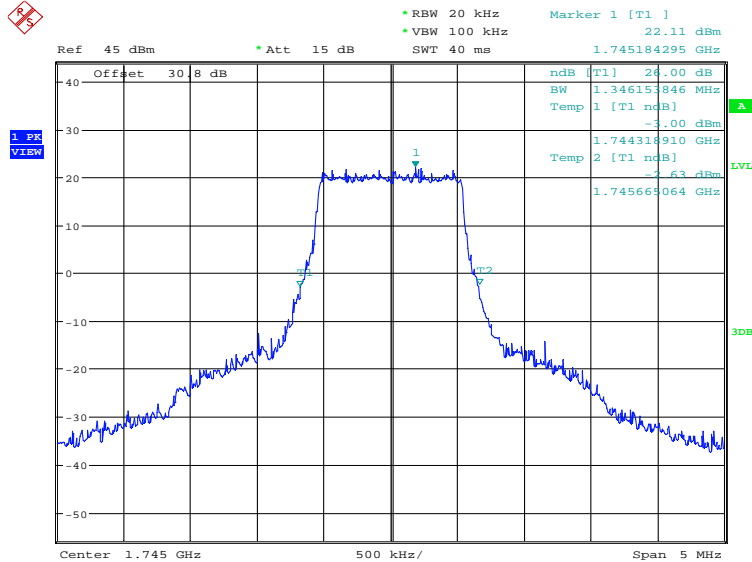
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1346.15	1346.15

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



Date: 30.JUL.2024 09:07:17

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

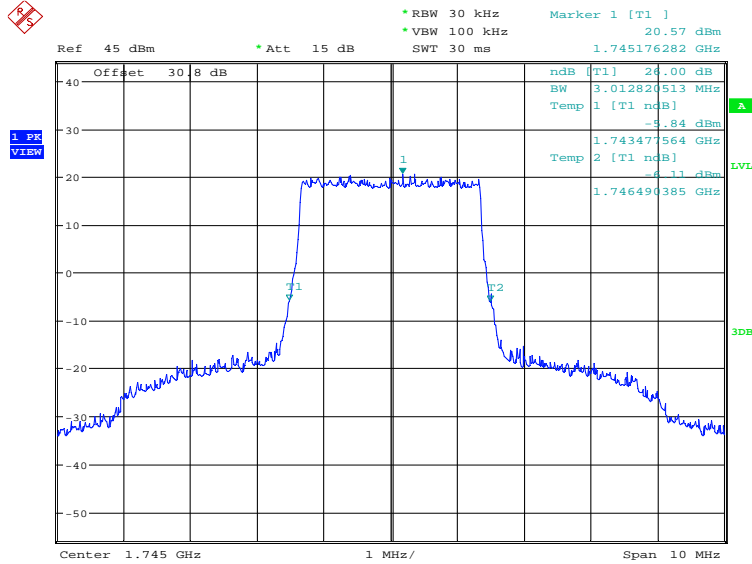


Date: 30.JUL.2024 09:07:57

LTE band 66, 3MHz (-26dBc)

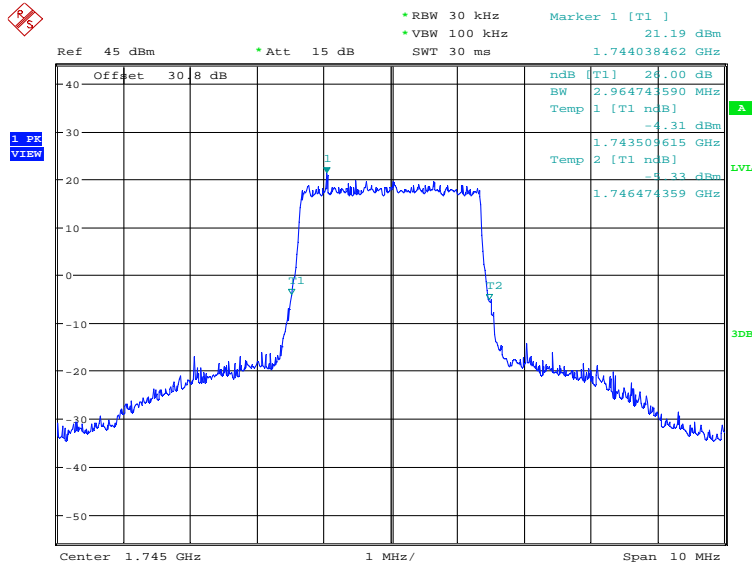
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	3012.82	2964.74

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



Date: 30.JUL.2024 09:08:39

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

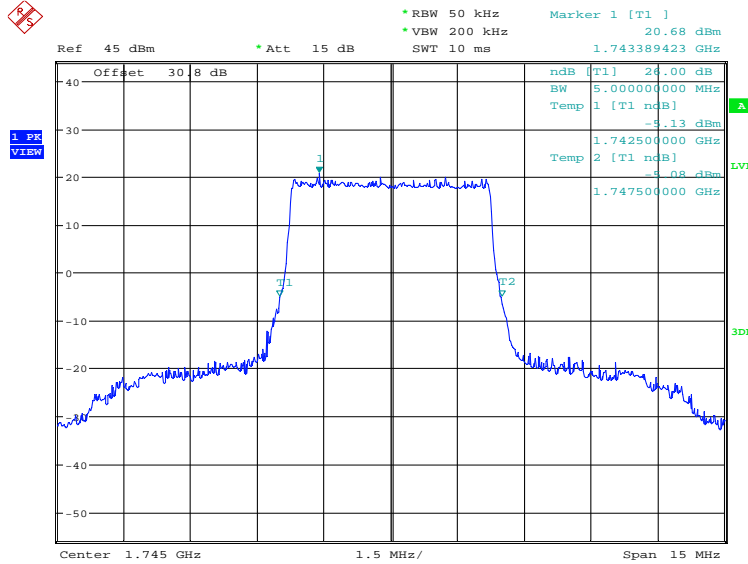


Date: 30.JUL.2024 09:09:19

LTE band 66, 5MHz (-26dBc)

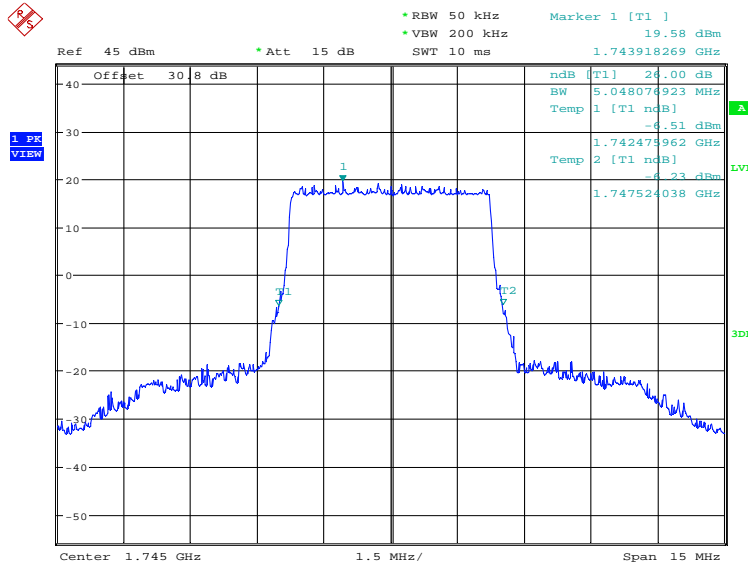
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	5000.00	5048.08

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



Date: 30.JUL.2024 09:10:01

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

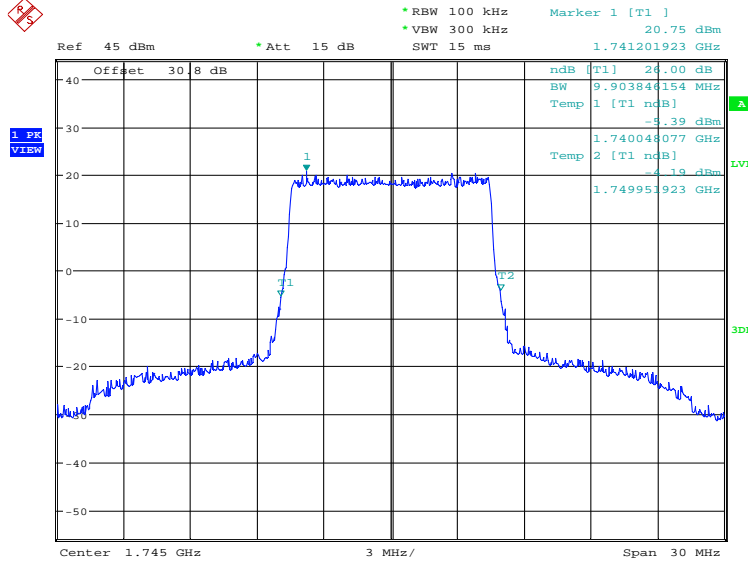


Date: 30.JUL.2024 09:10:41

LTE band 66, 10MHz (-26dBc)

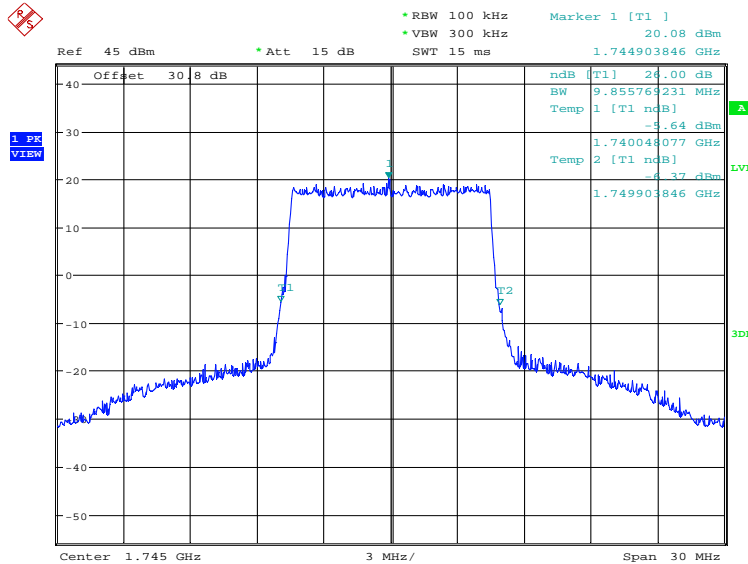
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9903.85	9855.77

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



Date: 30.JUL.2024 09:11:24

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

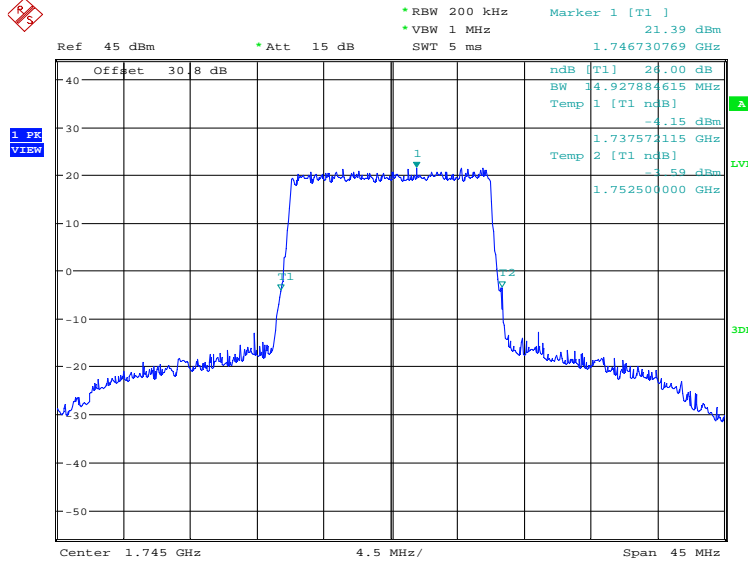


Date: 30.JUL.2024 09:12:04

LTE band 66, 15MHz (-26dBc)

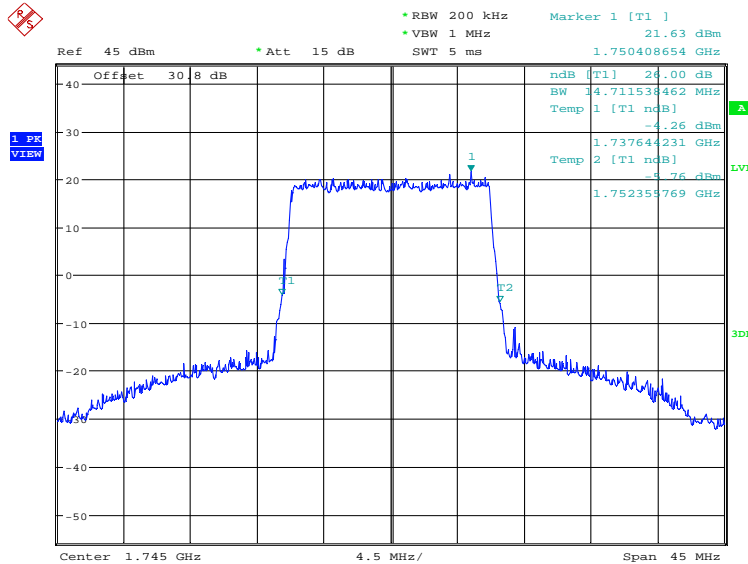
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14927.88	14711.54

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



Date: 30.JUL.2024 09:12:46

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

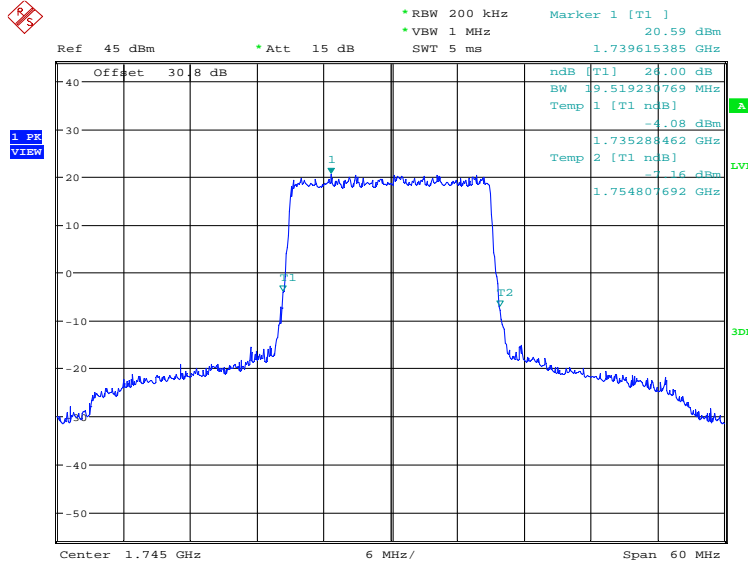


Date: 30.JUL.2024 09:13:26

LTE band 66, 20MHz (-26dBc)

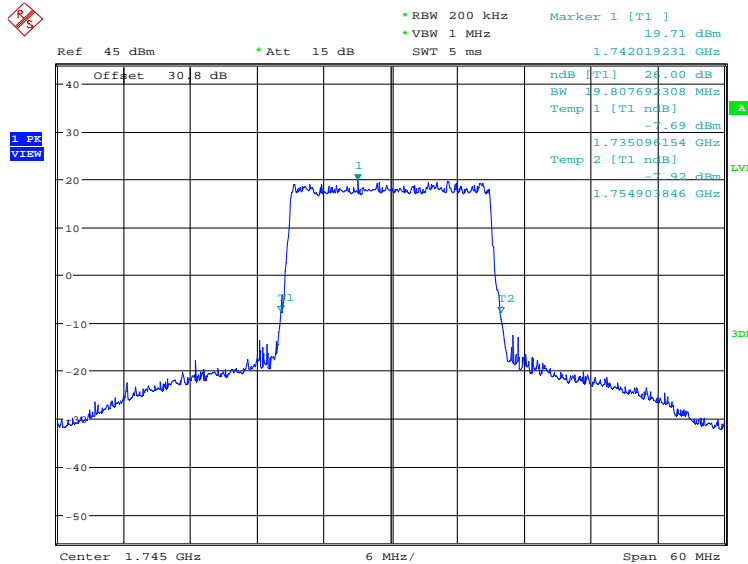
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19519.23	19807.69

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



Date: 30.JUL.2024 09:14:09

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

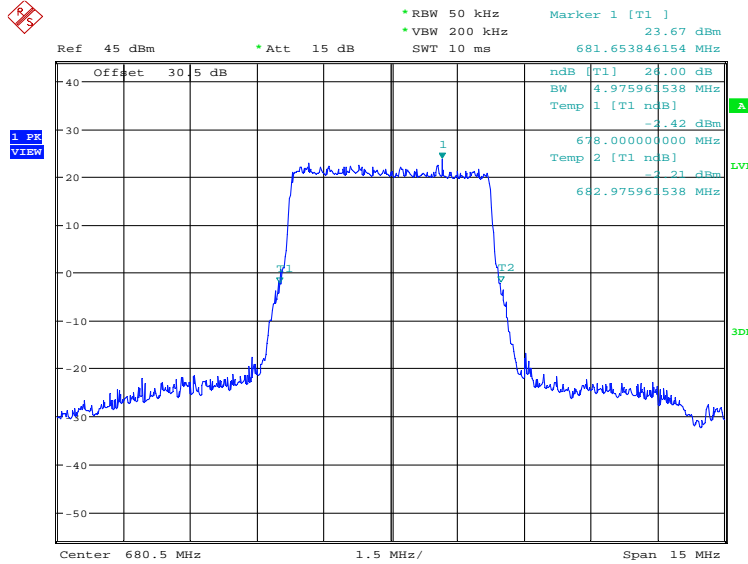


Date: 30.JUL.2024 09:14:49

LTE band 71, 5MHz (-26dBc)

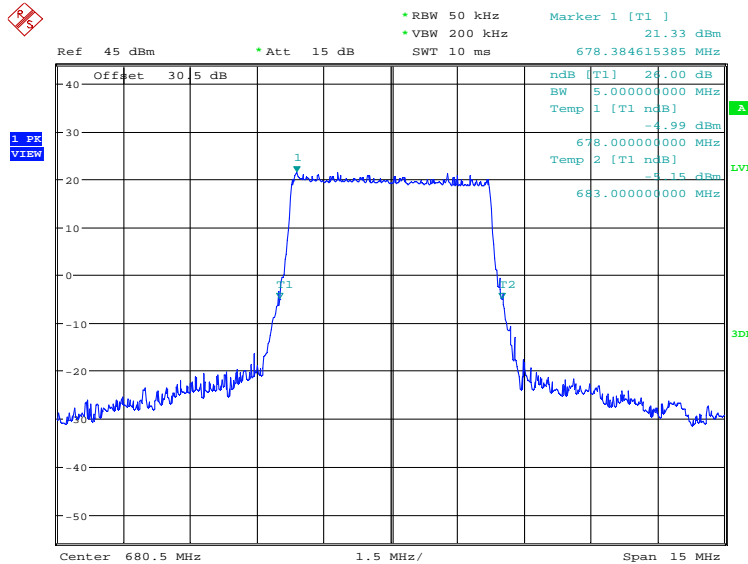
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	4975.96	5000.00

LTE band 71, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 14:56:43

LTE band 71, 5MHz Bandwidth, 16QAM (-26dBc BW)

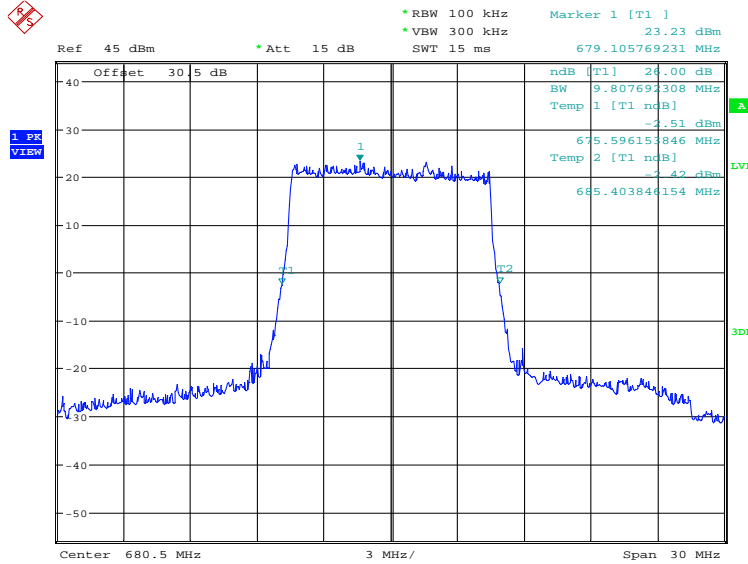


Date: 29.JUL.2024 14:57:23

LTE band 71, 10MHz (-26dBc)

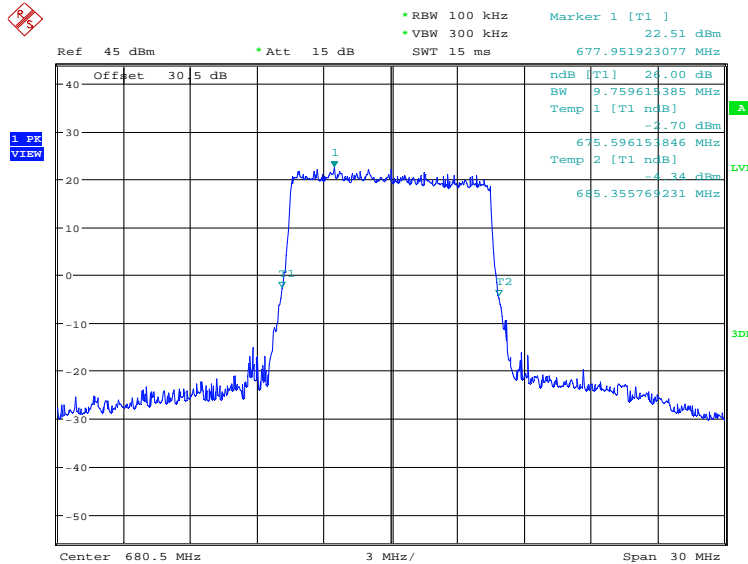
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9807.69	9759.62

LTE band 71, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 14:58:05

LTE band 71, 10MHz Bandwidth, 16QAM (-26dBc BW)

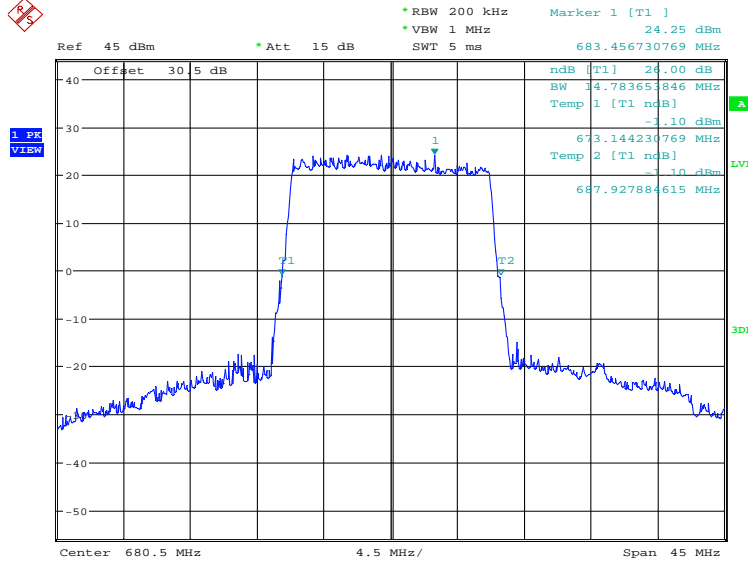


Date: 29.JUL.2024 14:58:45

LTE band 71, 15MHz (-26dBc)

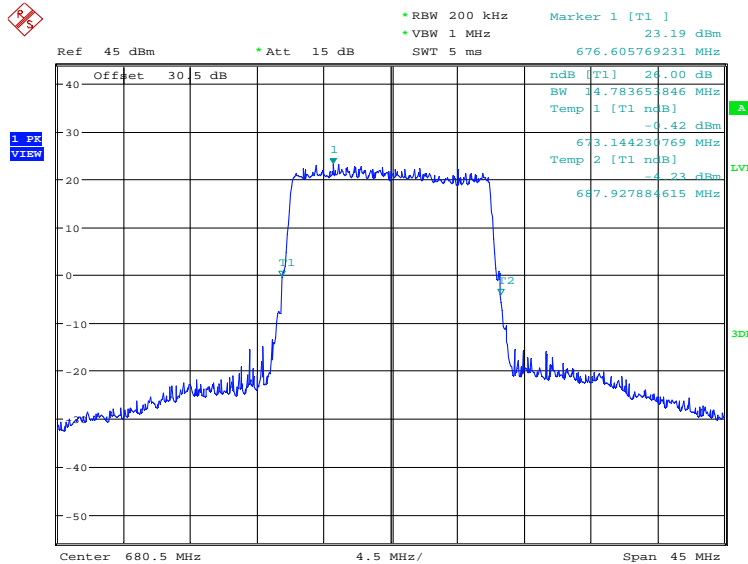
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	14783.65	14783.65

LTE band 71, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 14:59:27

LTE band 71, 15MHz Bandwidth, 16QAM (-26dBc BW)

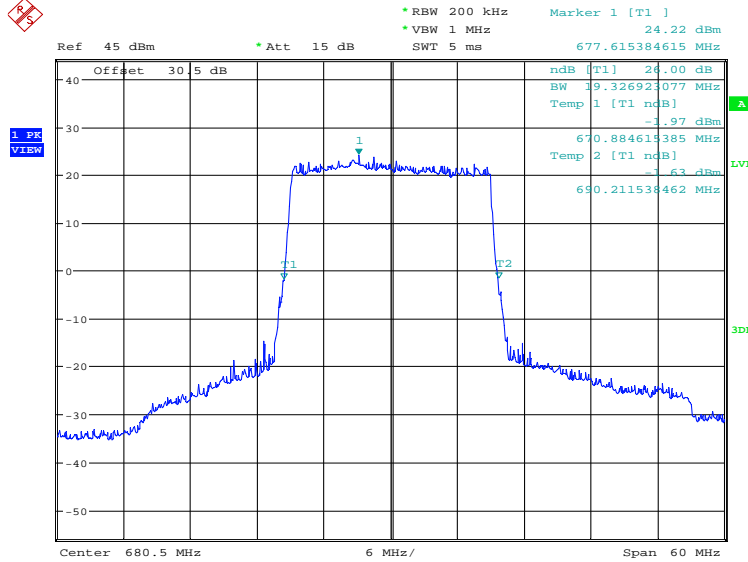


Date: 29.JUL.2024 15:00:07

LTE band 71, 20MHz (-26dBc)

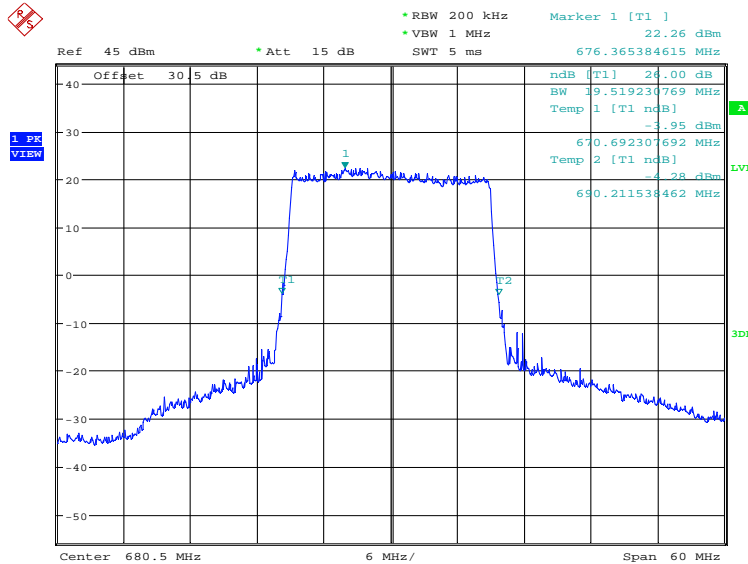
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19326.92	19519.23

LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 29.JUL.2024 15:01:45

LTE band 71, 20MHz Bandwidth, 16QAM (-26dBc BW)

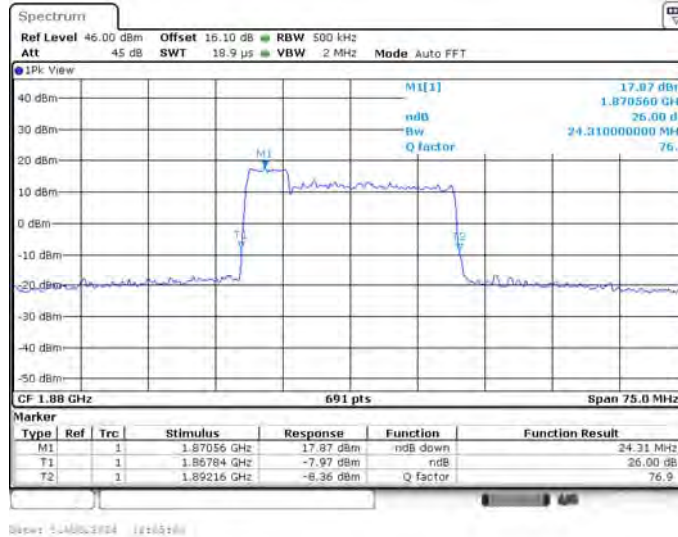


Date: 29.JUL.2024 15:02:25

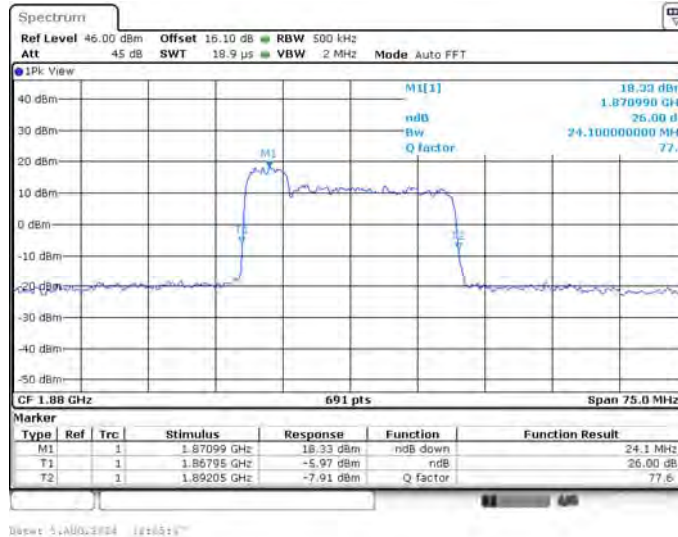
LTE CA band 2C, 5MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	24.310	24.100

LTE CA band 2C , 5MHz+20MHz Bandwidth,QPSK (-26dBc BW)

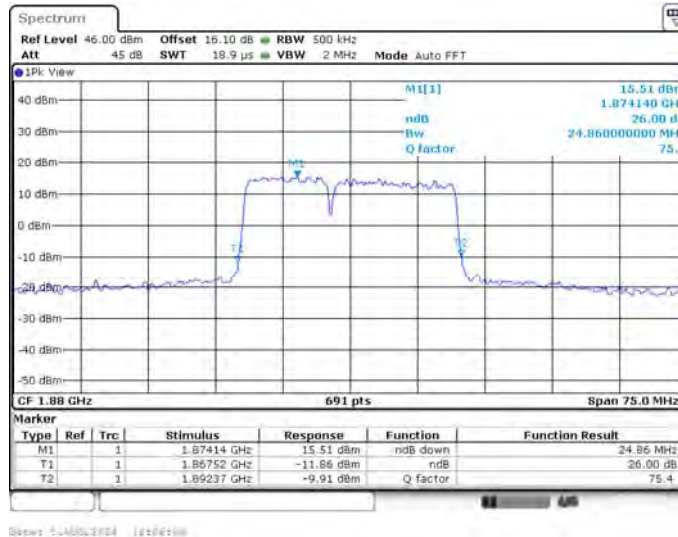
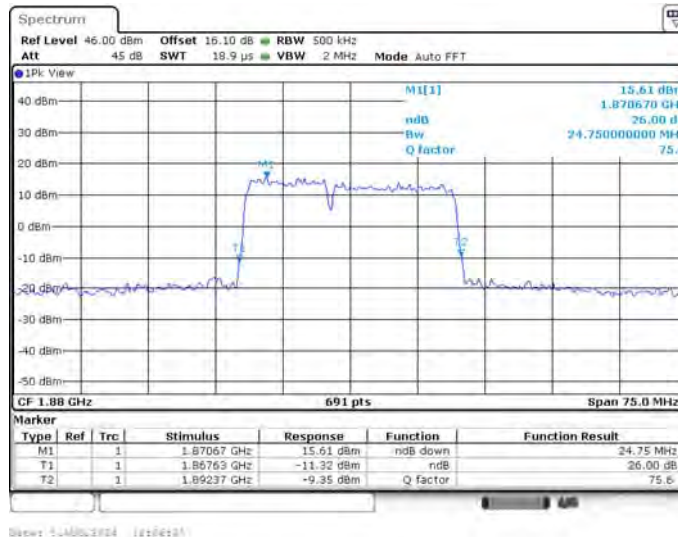


LTE CA band 2C , 5MHz+20MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 2C, 10MHz+15MHz(-26dBc)

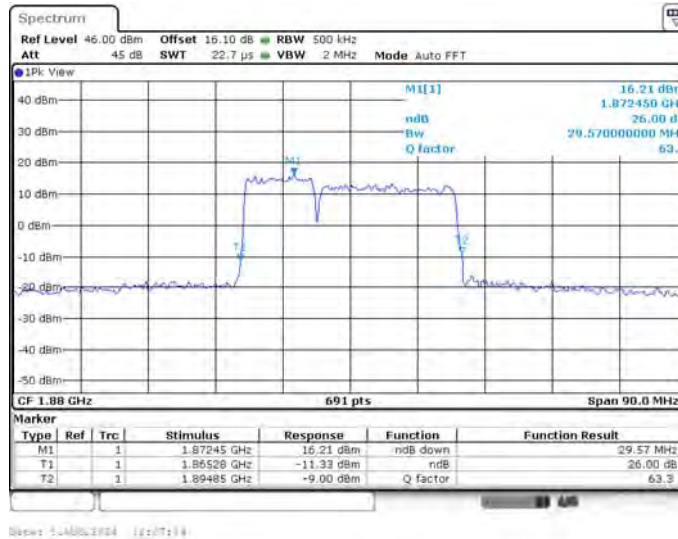
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	24.860	24.750

LTE CA band 2C , 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 2C , 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)


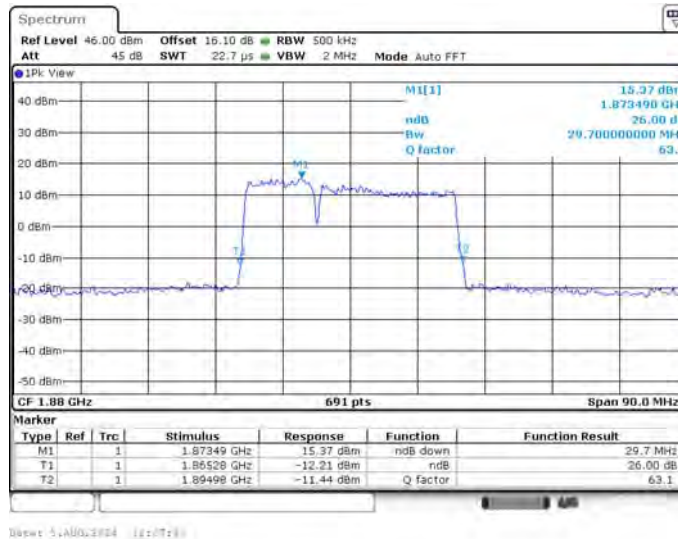
LTE CA band 2C, 10MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	29.570	29.700

LTE CA band 2C , 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)



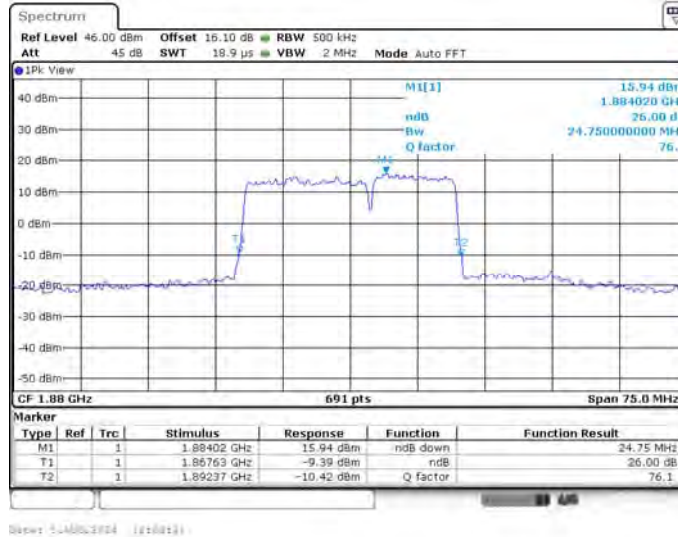
LTE CA band 2C , 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)



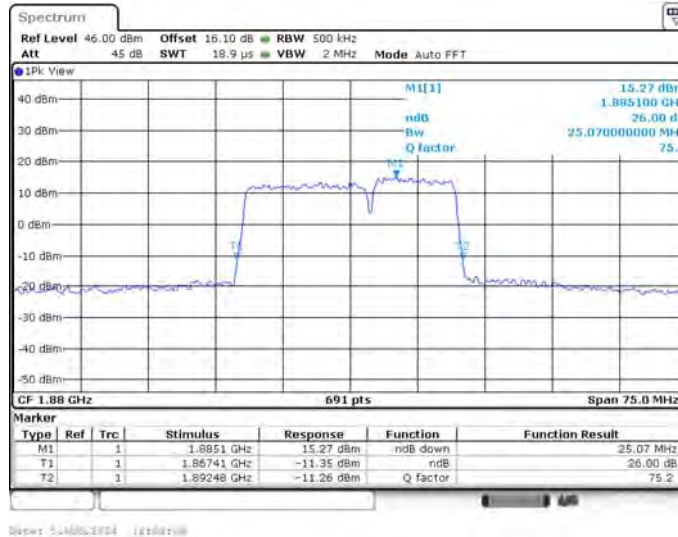
LTE CA band 2C, 15MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	24.750	25.070

LTE CA band 2C , 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)



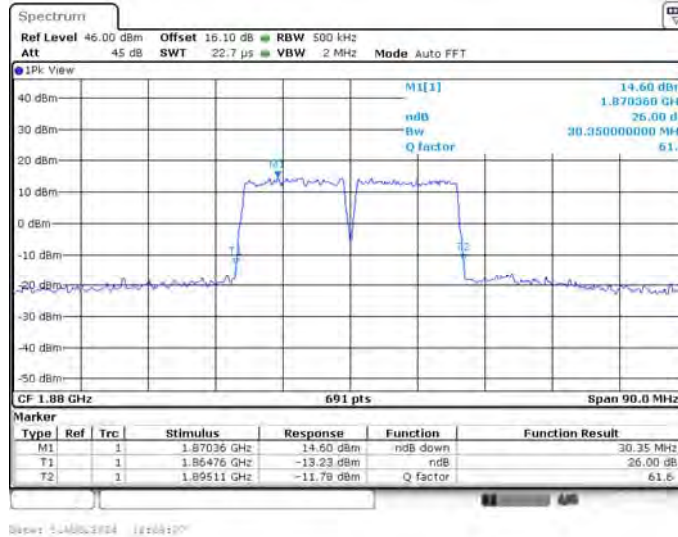
LTE CA band 2C , 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)



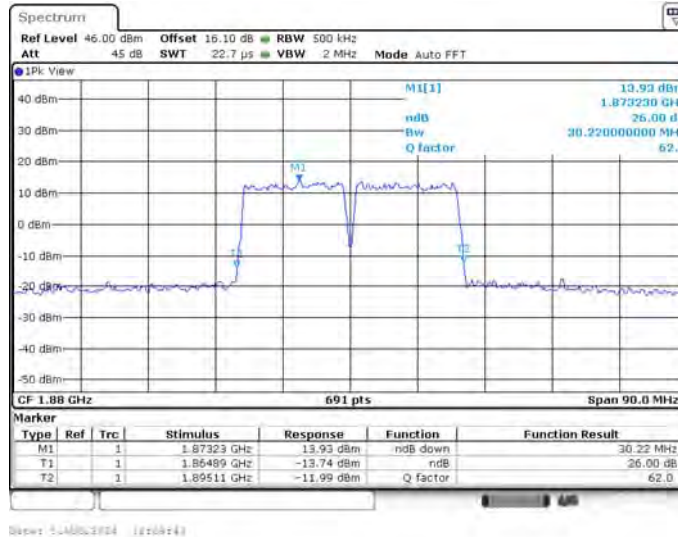
LTE CA band 2C, 15MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	30.350	30.220

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



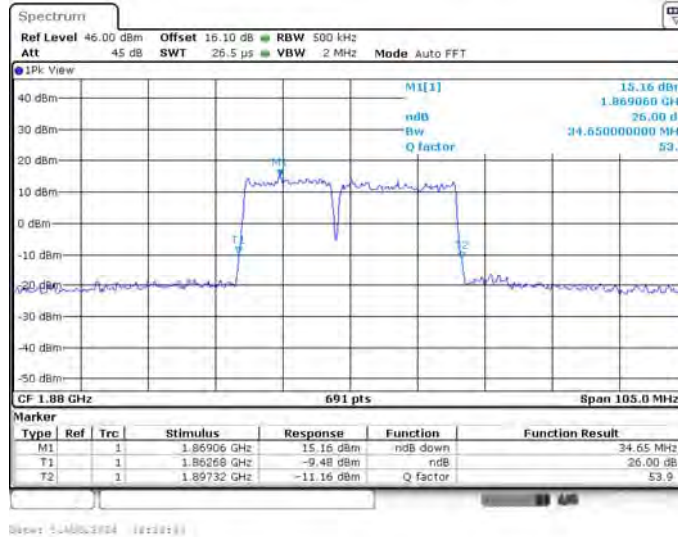
LTE CA band 2C , 15MHz+15MHz Bandwidth,16QAM (-26dBc BW)



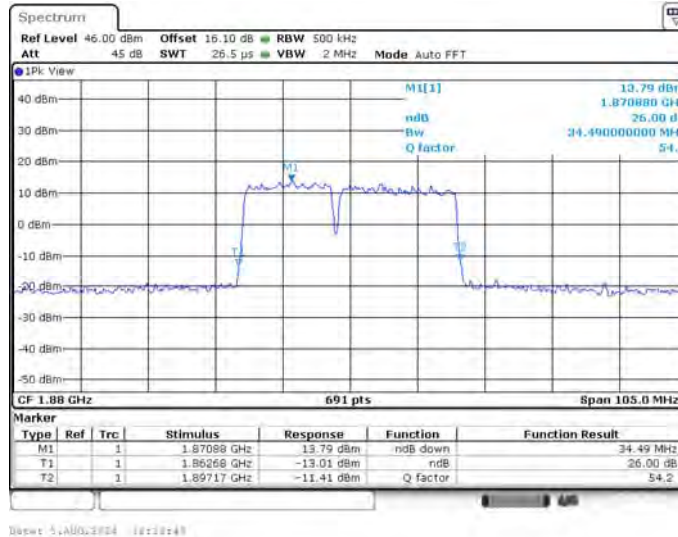
LTE CA band 2C, 15MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	34.650	34.490

LTE CA band 2C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)

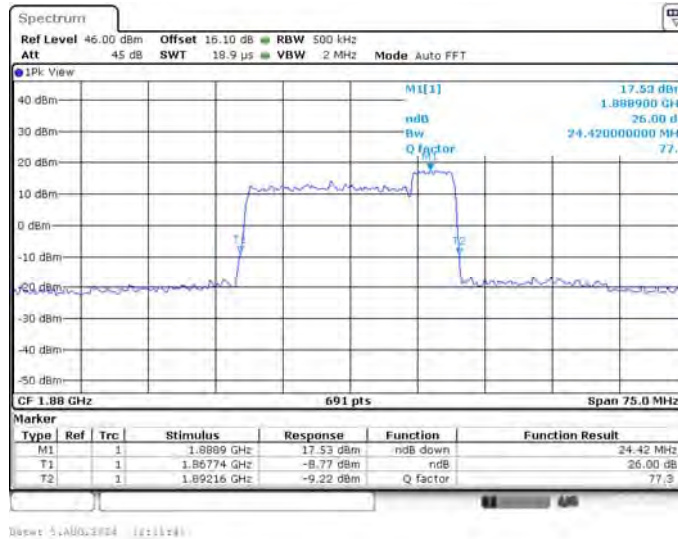
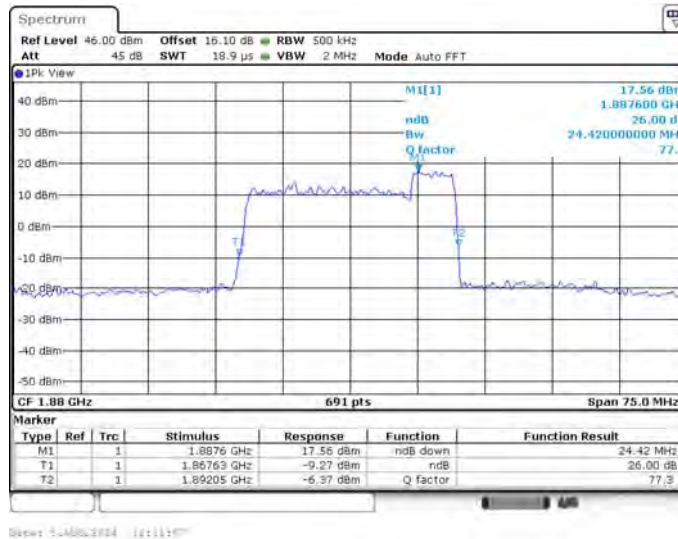


LTE CA band 2C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 2C, 20MHz+5MHz(-26dBc)

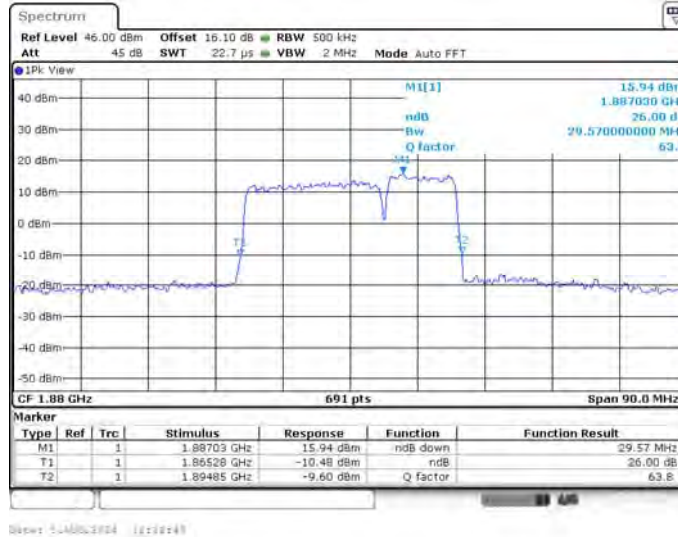
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	24.420	24.420

LTE CA band 2C , 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 2C , 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)


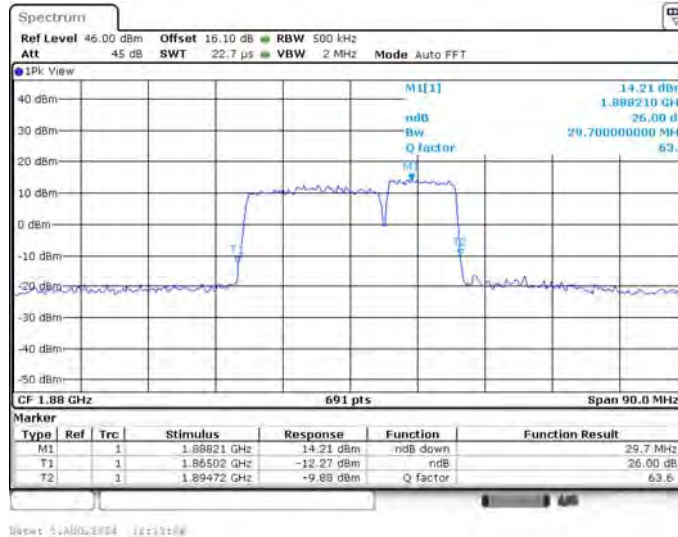
LTE CA band 2C, 20MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	29.570	29.700

LTE CA band 2C , 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)



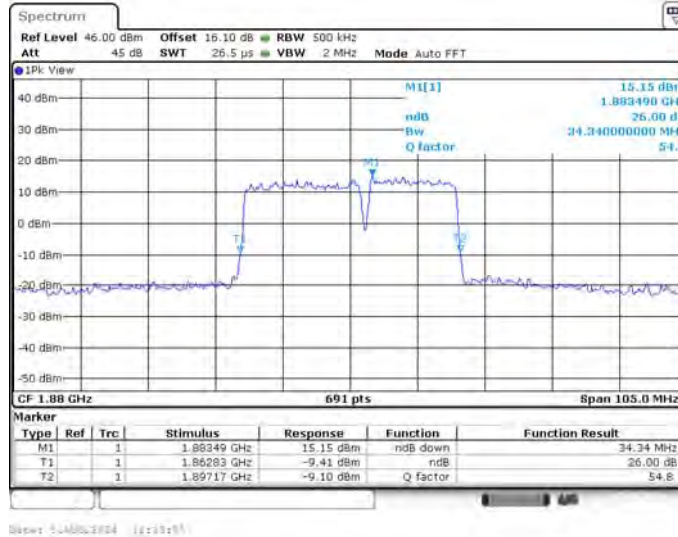
LTE CA band 2C , 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)



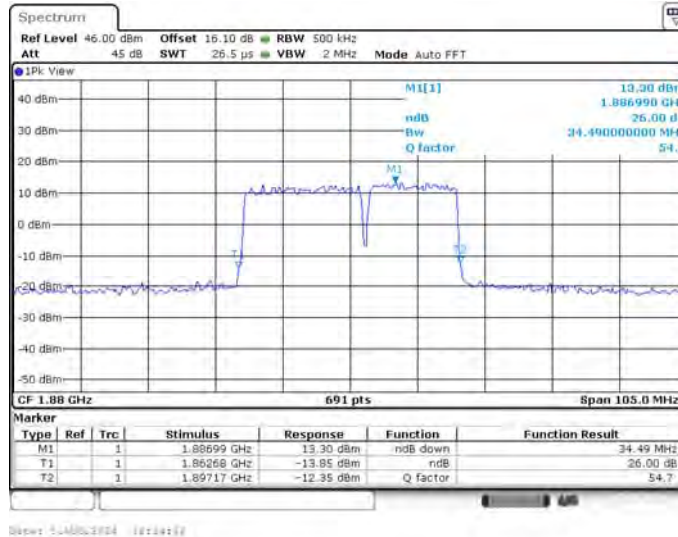
LTE CA band 2C, 20MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	34.340	34.490

LTE CA band 2C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



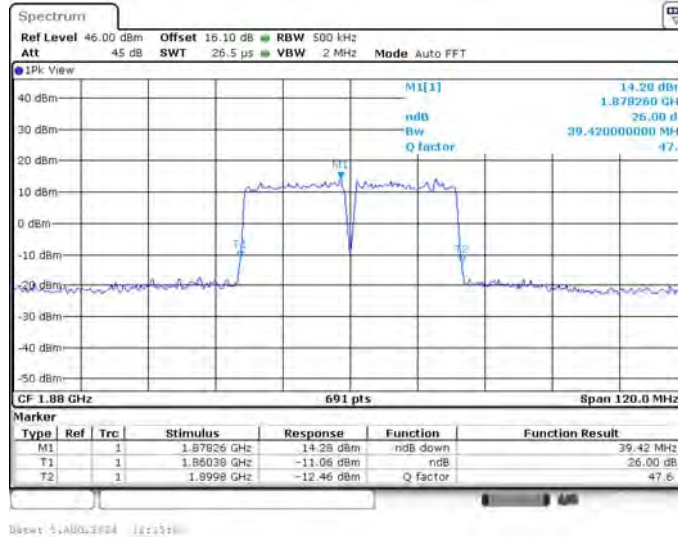
LTE CA band 2C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)



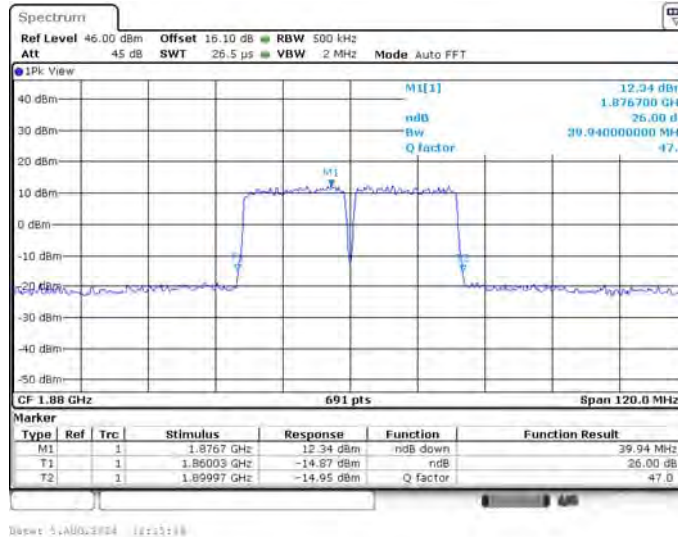
LTE CA band 2C, 20MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1880.0	39.420	39.940

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

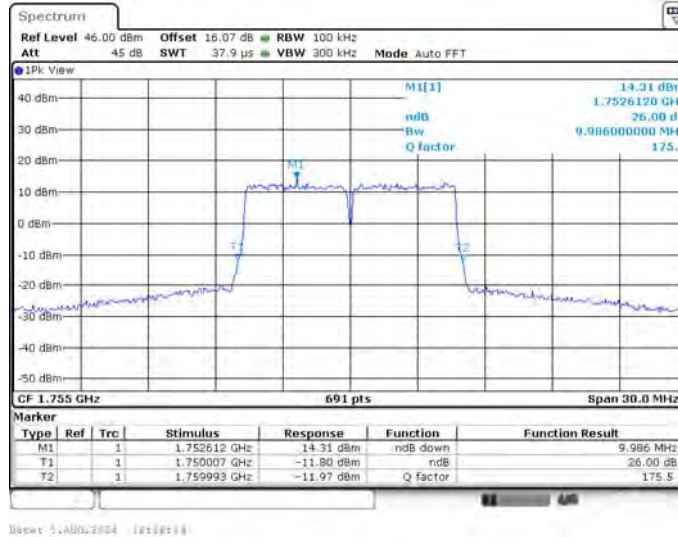
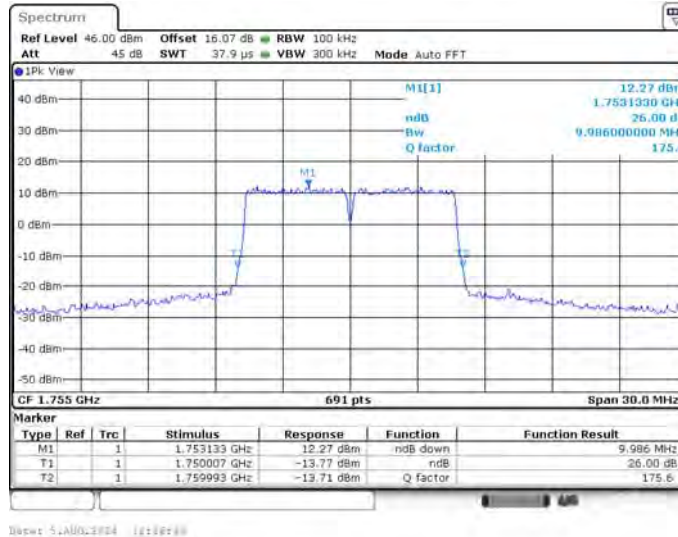


LTE CA band 2C , 20MHz+20MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 66B, 5MHz+5MHz(-26dBc)

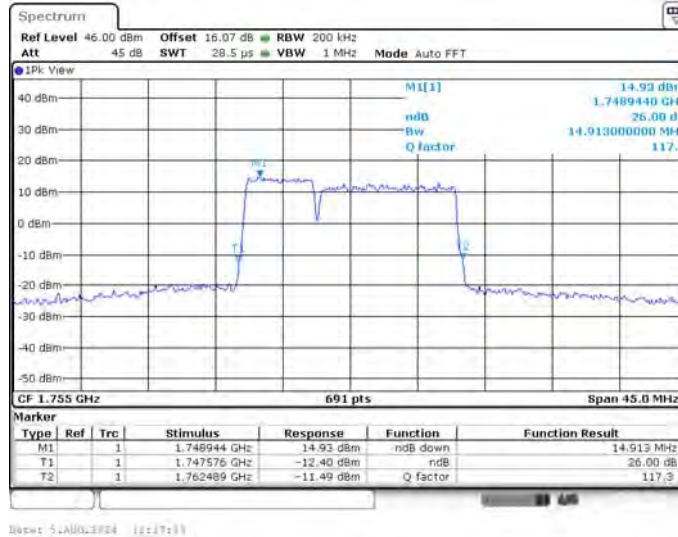
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	9.986	9.986

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

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


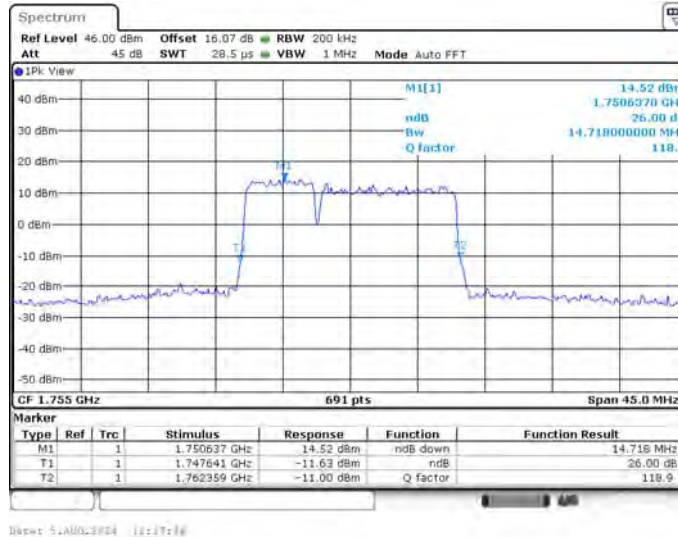
LTE CA band 66B, 5MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	14.913	14.718

LTE CA band 66B , 5MHz+10MHz Bandwidth,QPSK (-26dBc BW)

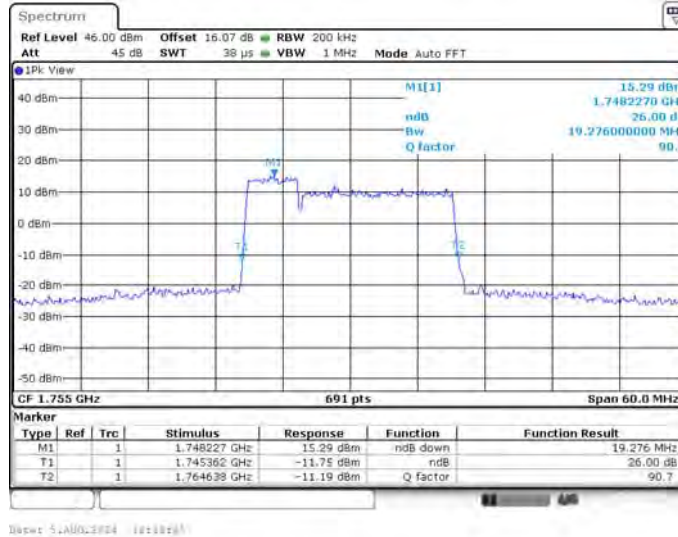
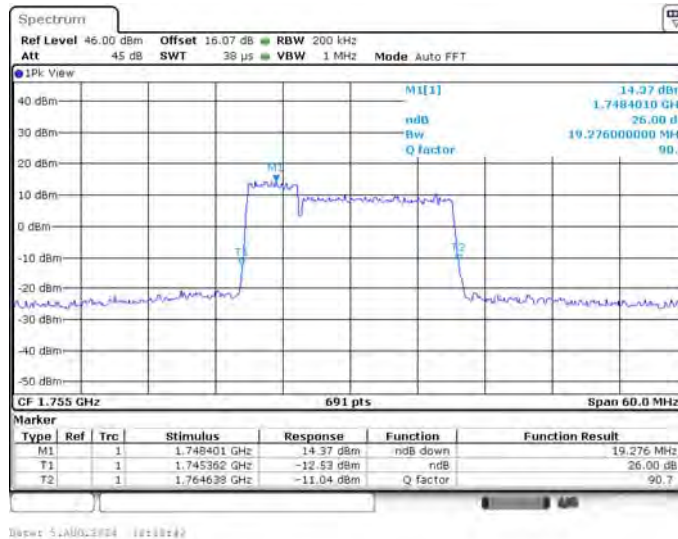


LTE CA band 66B , 5MHz+10MHz Bandwidth,16QAM (-26dBc BW)



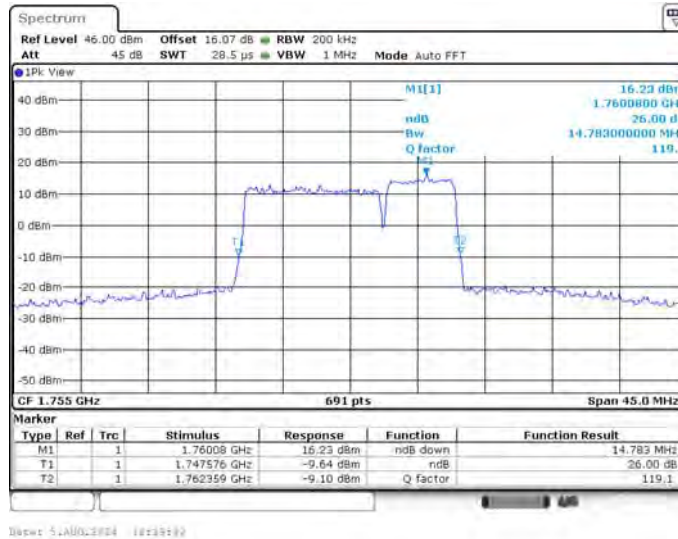
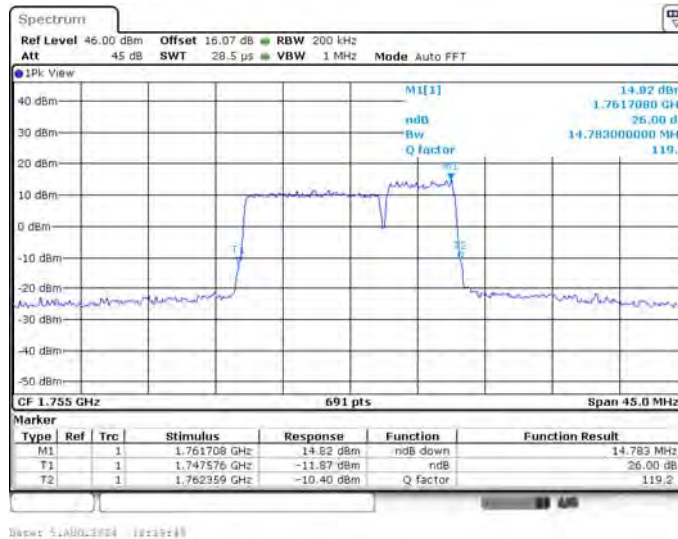
LTE CA band 66B, 5MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.276	19.276

LTE CA band 66B , 5MHz+15MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66B , 5MHz+15MHz Bandwidth,16QAM (-26dBc BW)


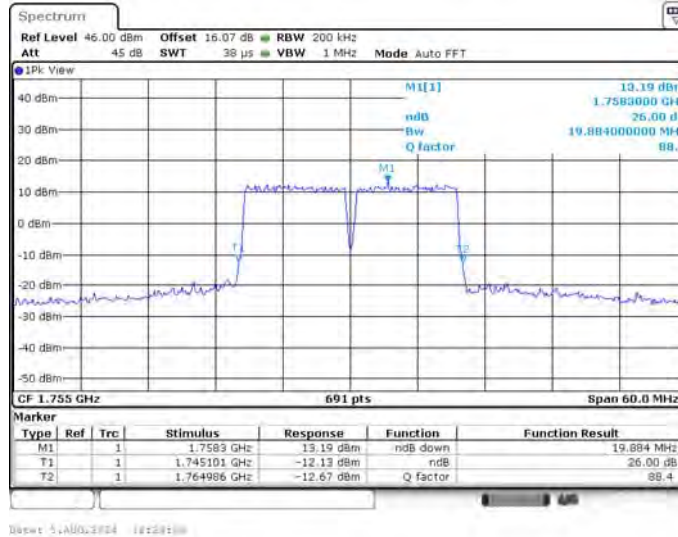
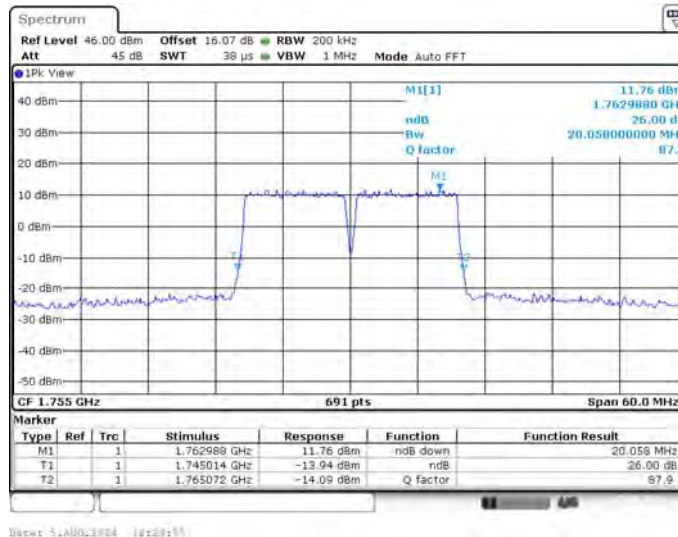
LTE CA band 66B, 10MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	14.783	14.783

LTE CA band 66B , 10MHz+5MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66B , 10MHz+5MHz Bandwidth,16QAM (-26dBc BW)


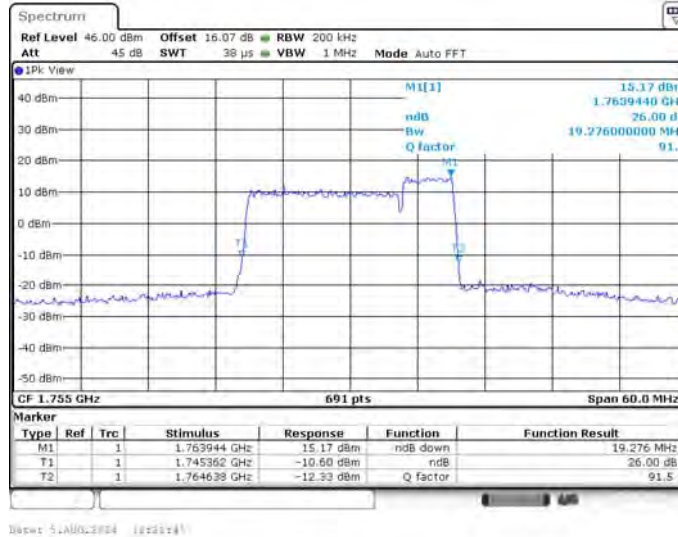
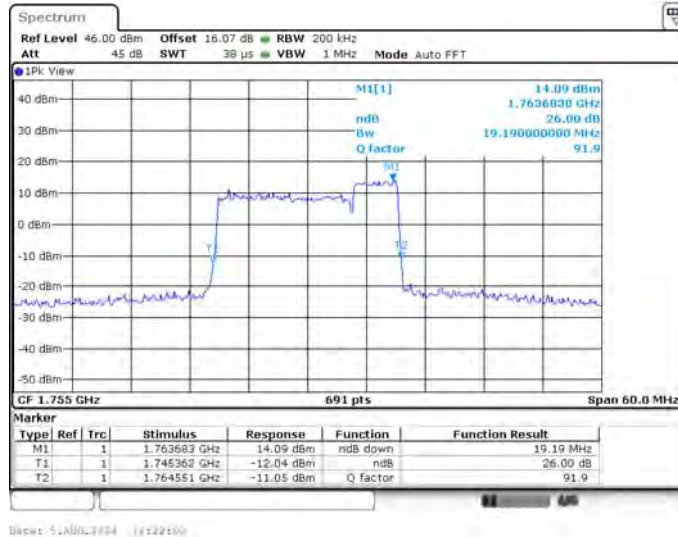
LTE CA band 66B, 10MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.884	20.058

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

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


LTE CA band 66B, 15MHz+5MHz(-26dBc)

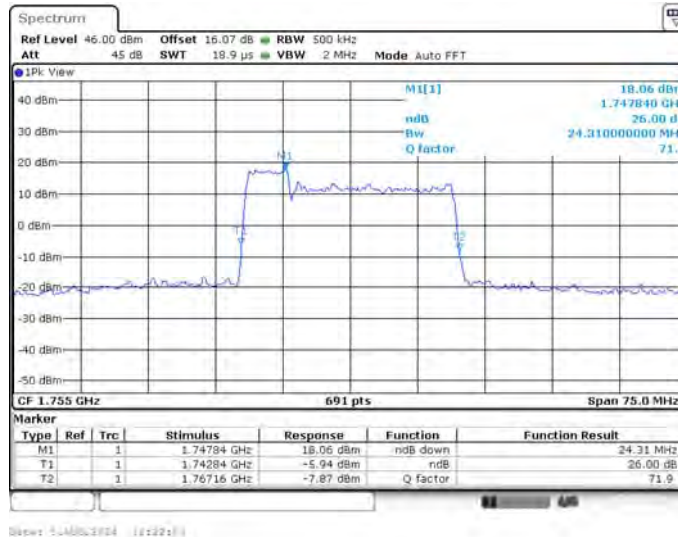
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	19.276	19.190

LTE CA band 66B , 15MHz+5MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66B , 15MHz+5MHz Bandwidth,16QAM (-26dBc BW)


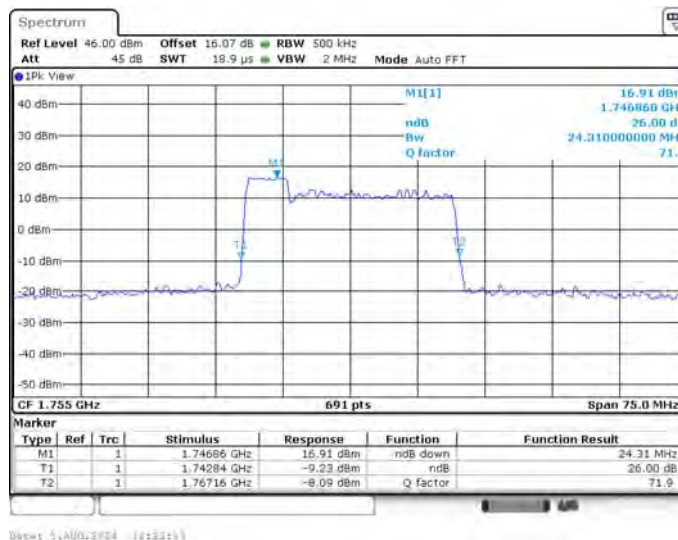
LTE CA band 66C, 5MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.310	24.310

LTE CA band 66C , 5MHz+20MHz Bandwidth,QPSK (-26dBc BW)



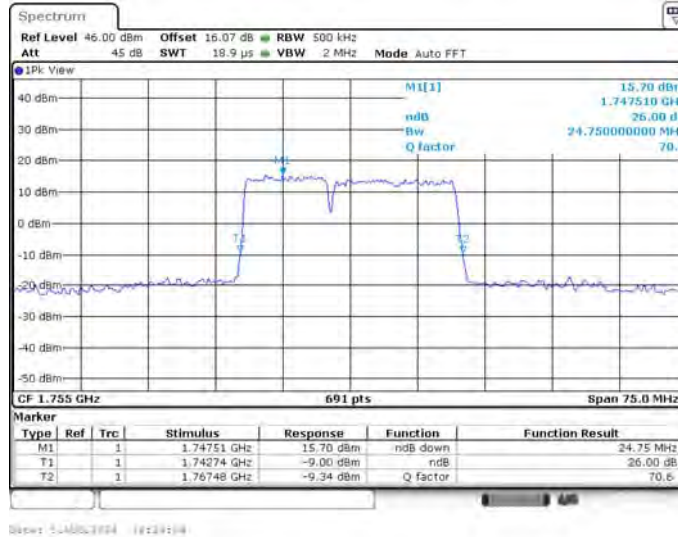
LTE CA band 66C , 5MHz+20MHz Bandwidth,16QAM (-26dBc BW)



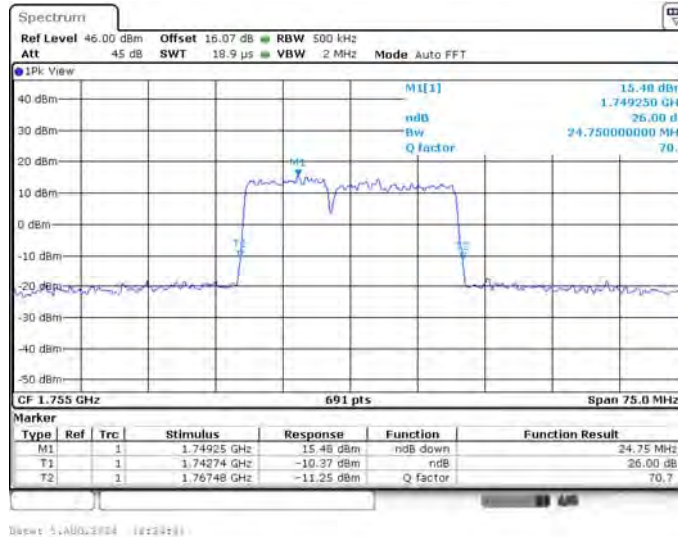
LTE CA band 66C, 10MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.750	24.750

LTE CA band 66C , 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)



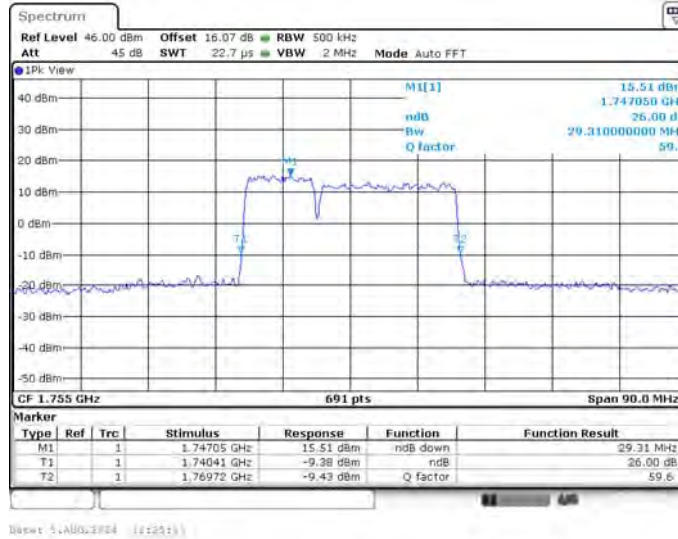
LTE CA band 66C , 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)



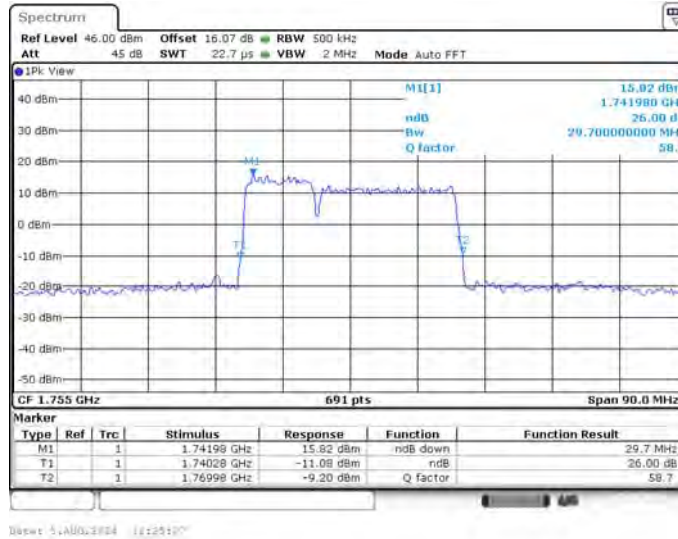
LTE CA band 66C, 10MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.310	29.700

LTE CA band 66C , 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)

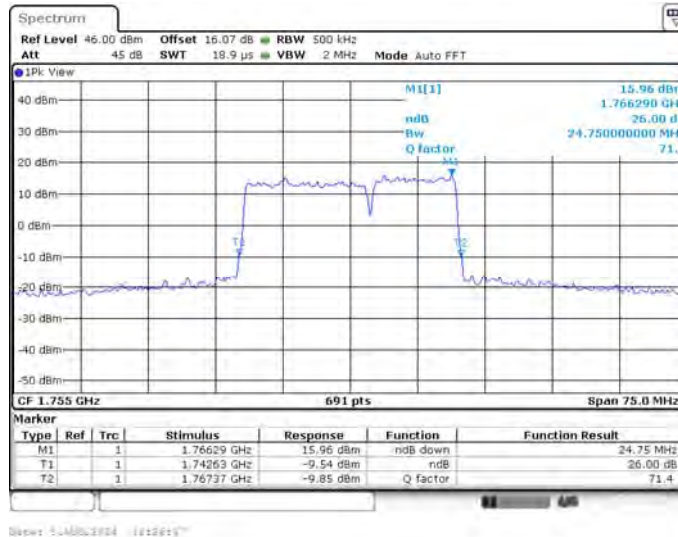
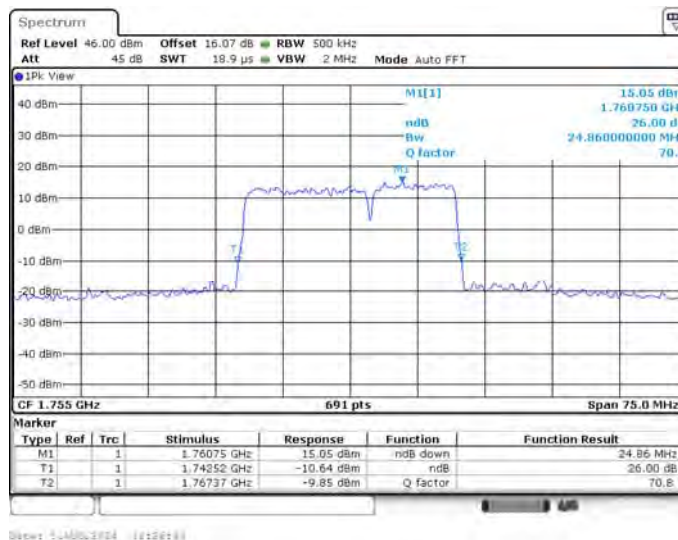


LTE CA band 66C , 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 66C, 15MHz+10MHz(-26dBc)

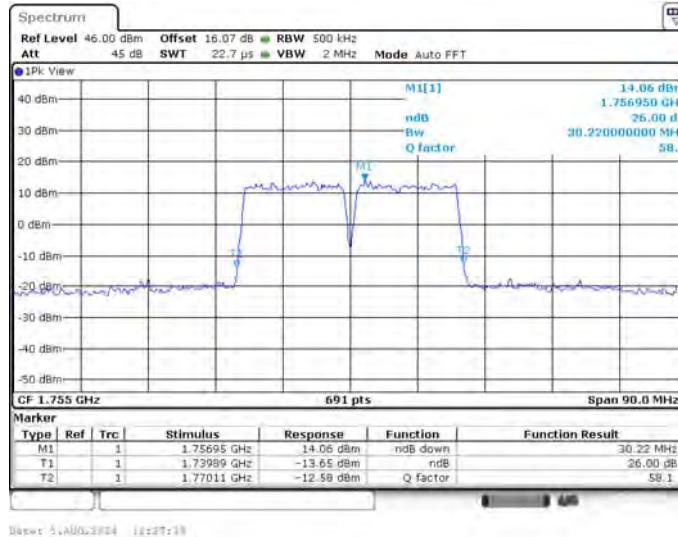
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.750	24.860

LTE CA band 66C , 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66C , 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)


LTE CA band 66C, 15MHz+15MHz(-26dBc)

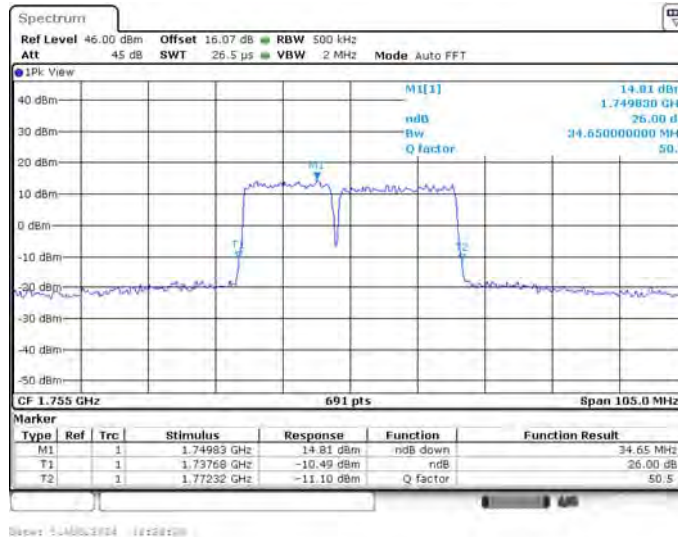
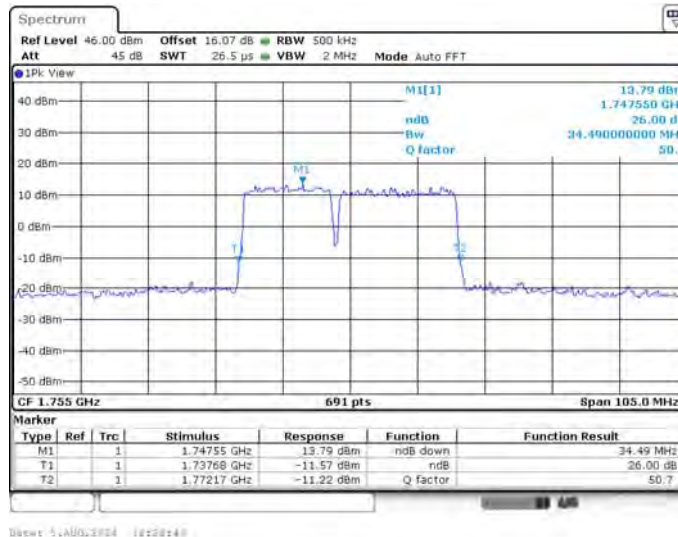
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	30.220	30.220

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

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


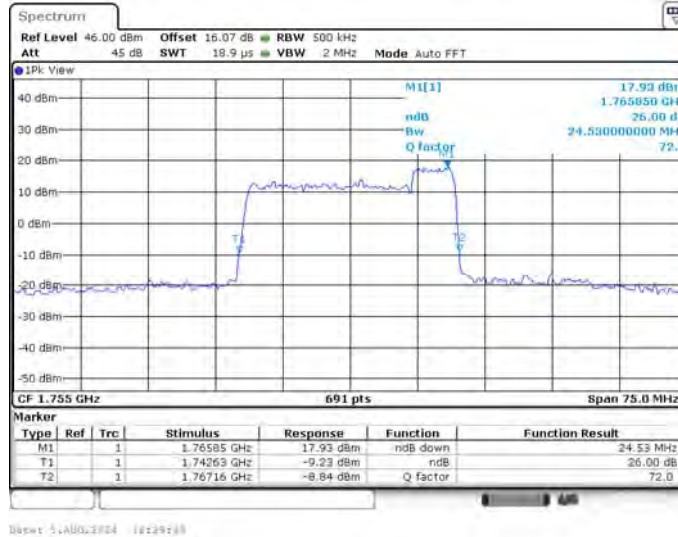
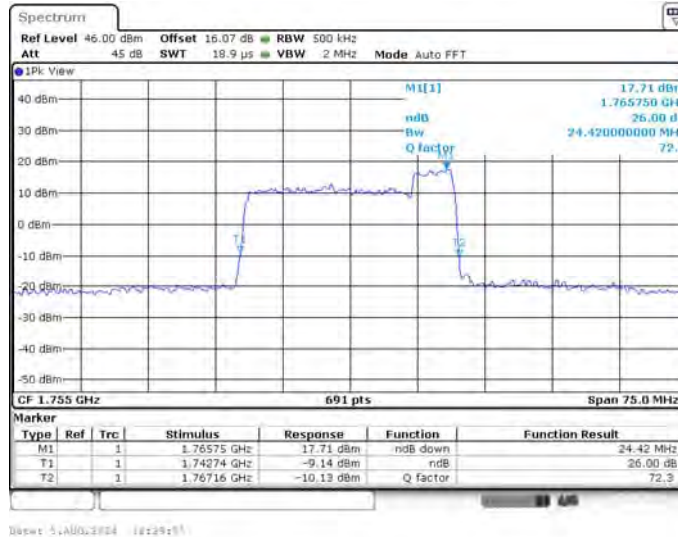
LTE CA band 66C, 15MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	34.650	34.490

LTE CA band 66C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)


LTE CA band 66C, 20MHz+5MHz(-26dBc)

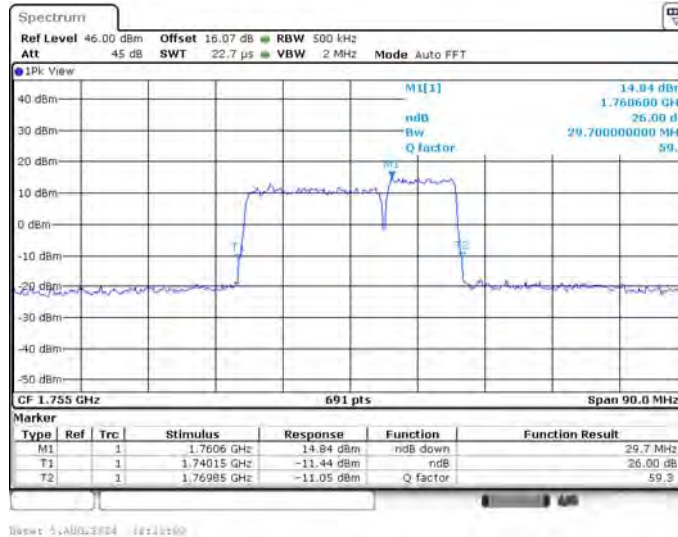
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	24.530	24.420

LTE CA band 66C , 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66C , 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)


LTE CA band 66C, 20MHz+10MHz(-26dBc)

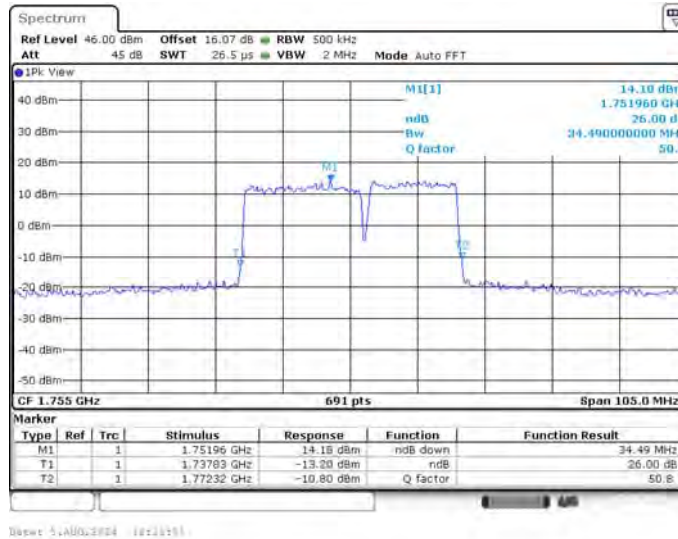
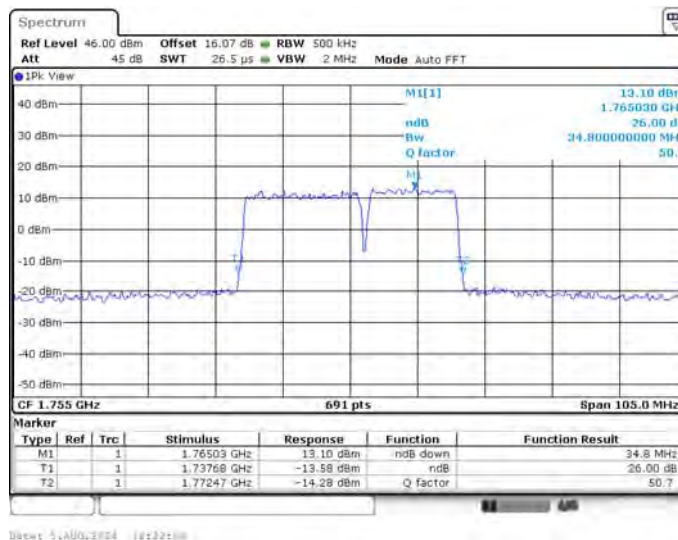
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	29.440	29.700

LTE CA band 66C , 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66C , 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)


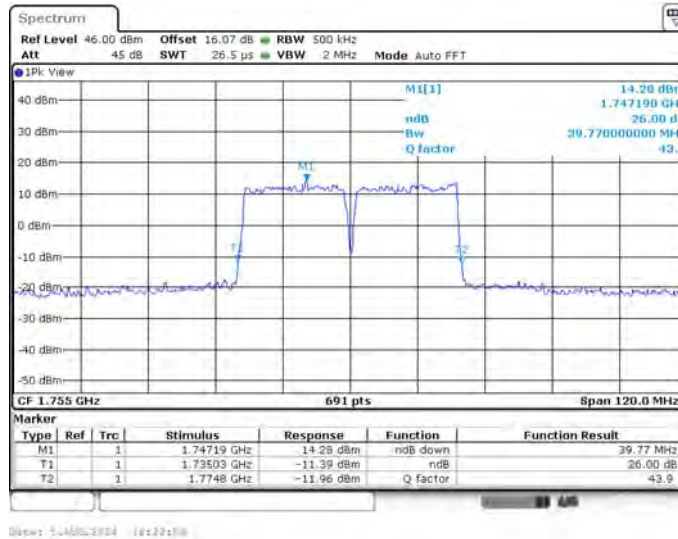
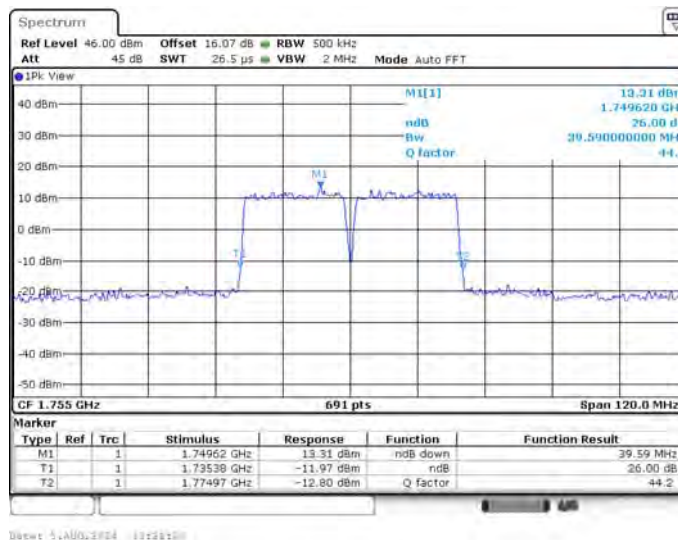
LTE CA band 66C, 20MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	34.490	34.800

LTE CA band 66C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)

LTE CA band 66C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)


LTE CA band 66C, 20MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
1755.0	39.770	39.590

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

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


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

A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify 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.

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 than $43 + 10 \log(P)$ 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.

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.

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.

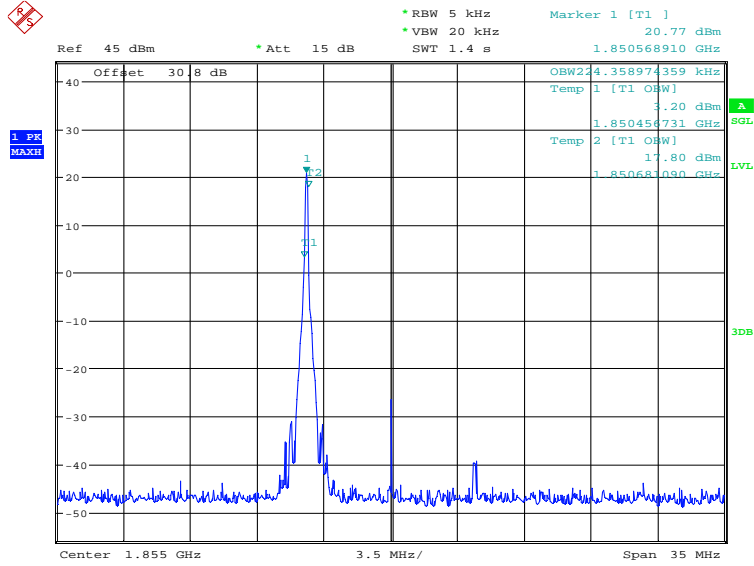
The spectrum analyzer readings are corrected by $[10 \log(1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

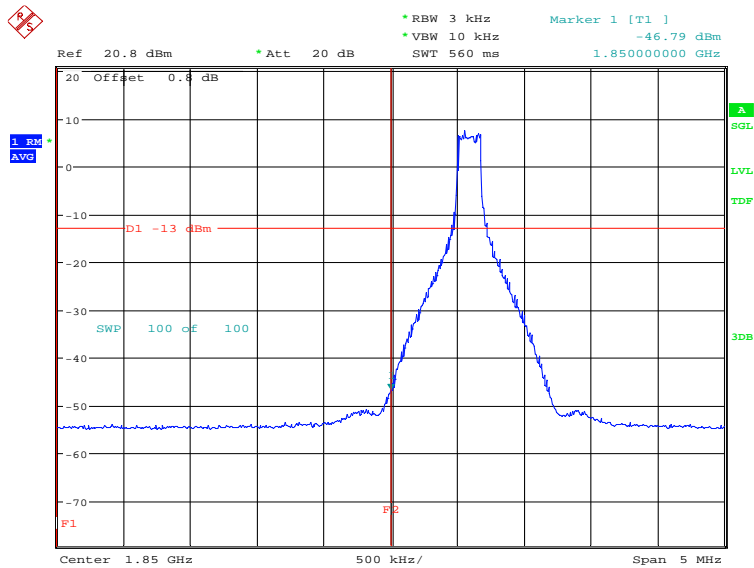
LTE band 2

OBW: 1RB-low_offset



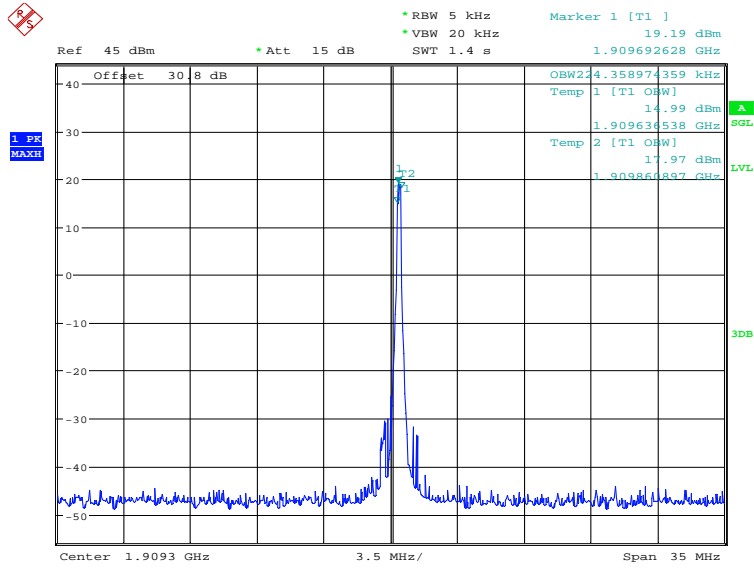
Date: 29.AUG.2024 09:52:57

LOW BAND EDGE BLOCK-1RB-low_offset



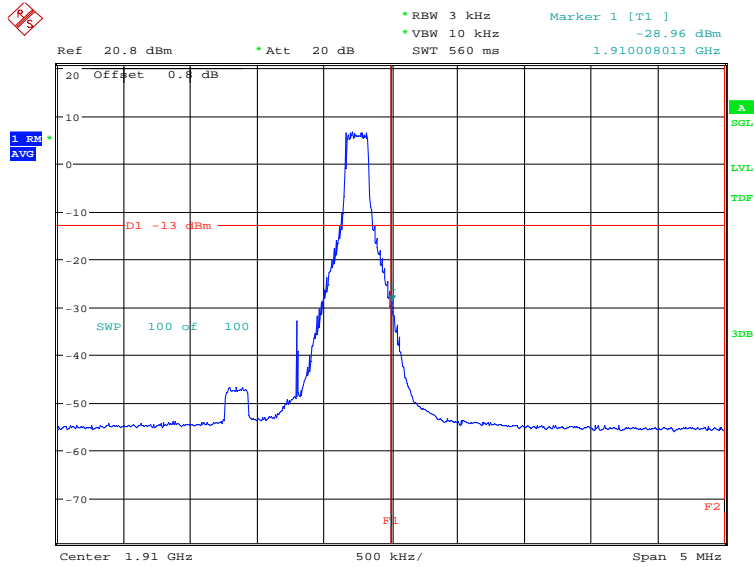
Date: 29.AUG.2024 09:54:12

OBW: 1RB-high_offset



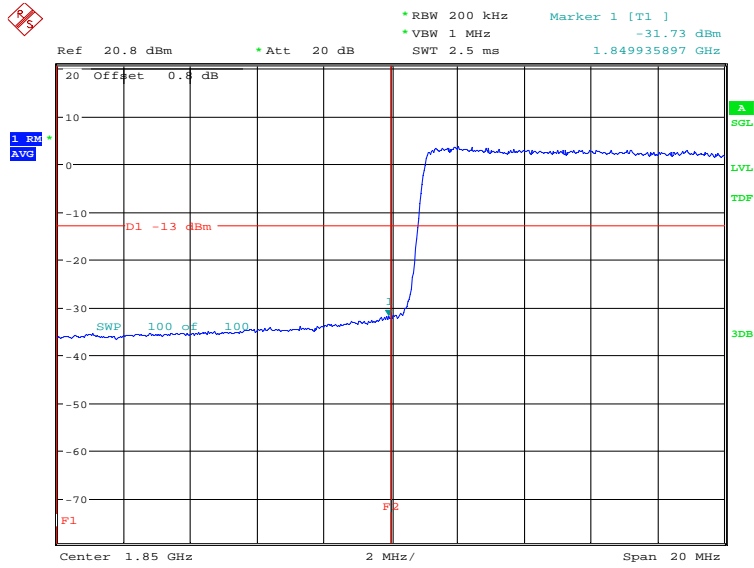
Date: 29.AUG.2024 09:57:06

HIGH BAND EDGE BLOCK-1RB-high_offset



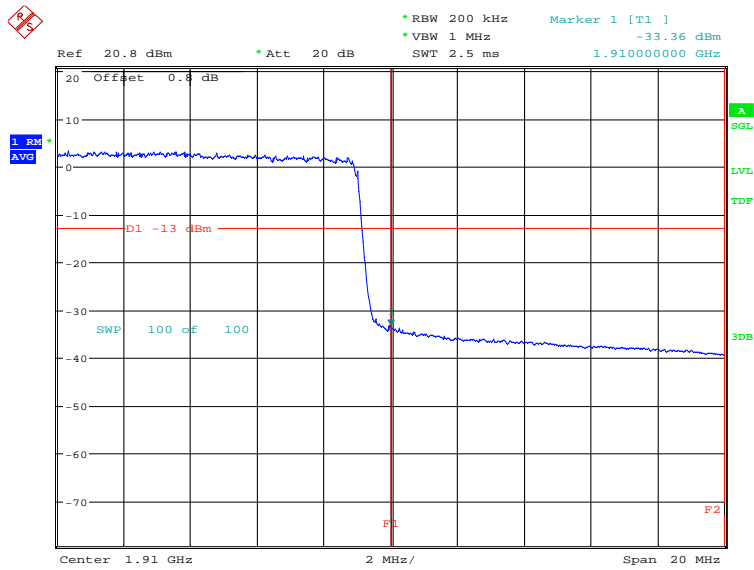
Date: 29.AUG.2024 09:58:20

LOW BAND EDGE BLOCK-20MHz-100%RB



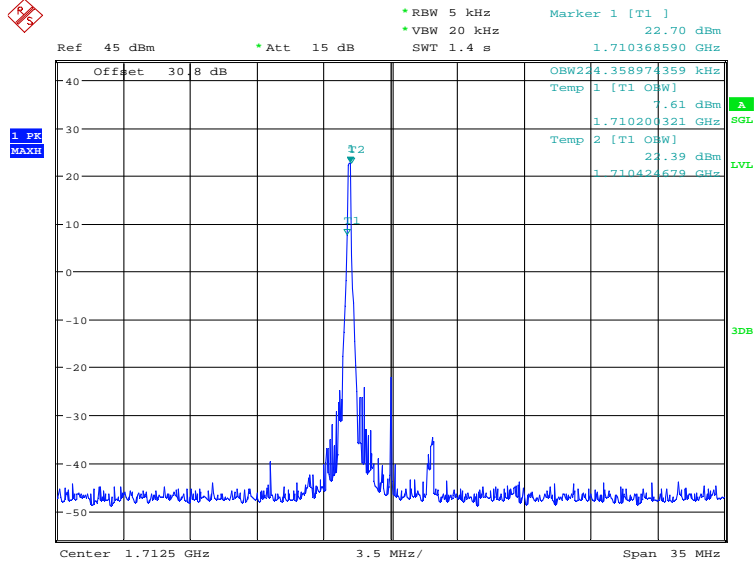
Date: 29.AUG.2024 09:54:50

HIGH BAND EDGE BLOCK-20MHz-100%RB



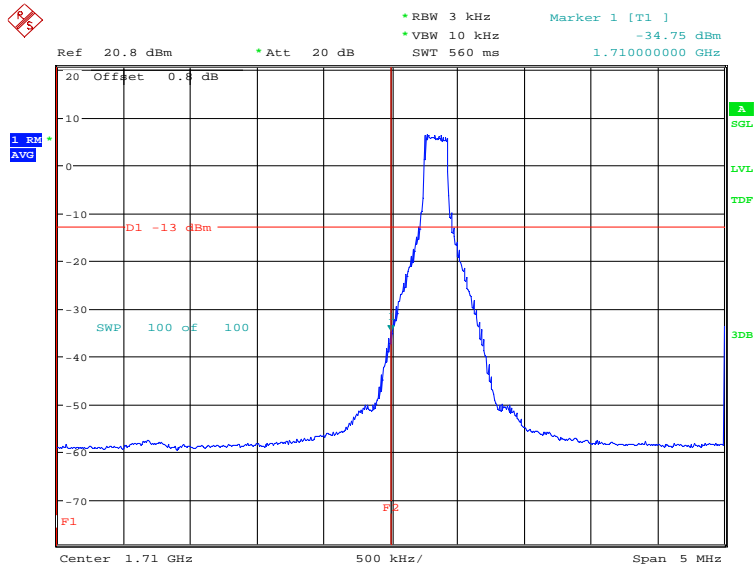
Date: 29.AUG.2024 09:58:58

LTE band 4
OBW: 1RB-low_offset



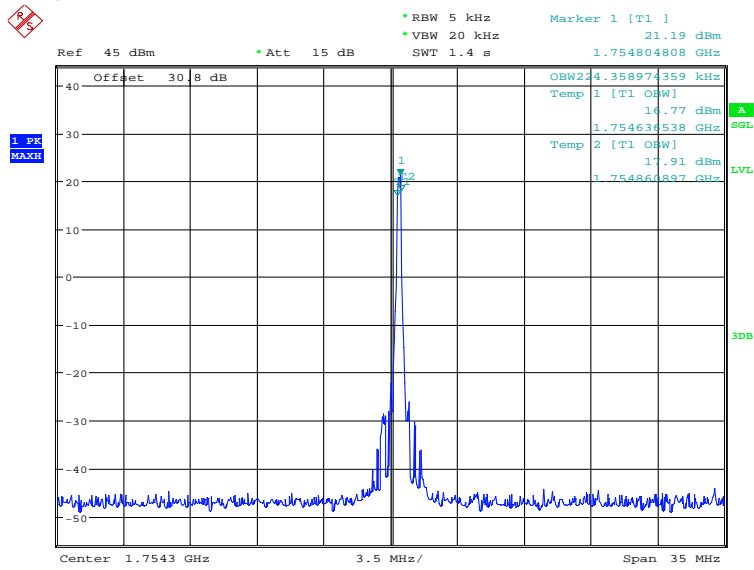
Date: 29.AUG.2024 10:01:18

LOW BAND EDGE BLOCK-1RB-low_offset



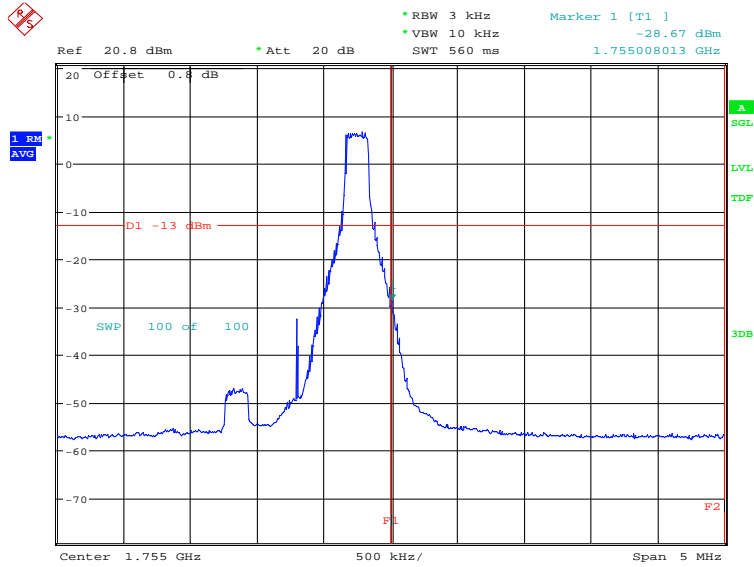
Date: 29.AUG.2024 10:02:32

OBW: 1RB-high_offset



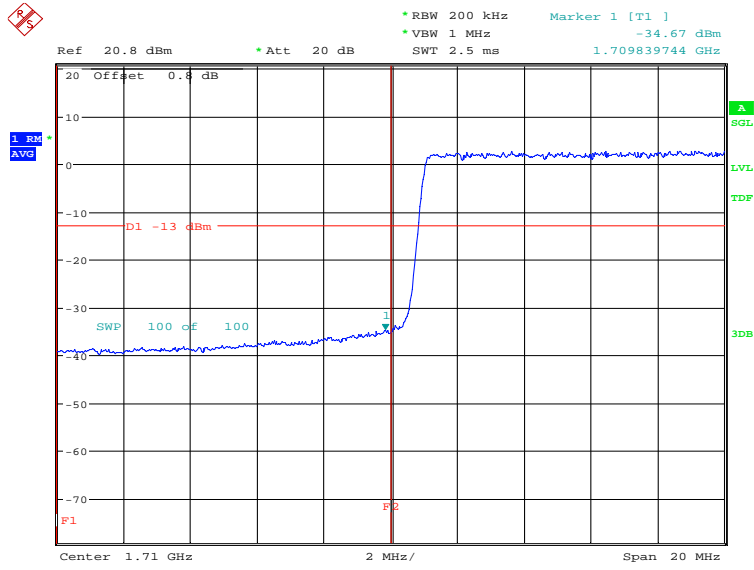
Date: 29.AUG.2024 10:05:26

HIGH BAND EDGE BLOCK-1RB-high_offset



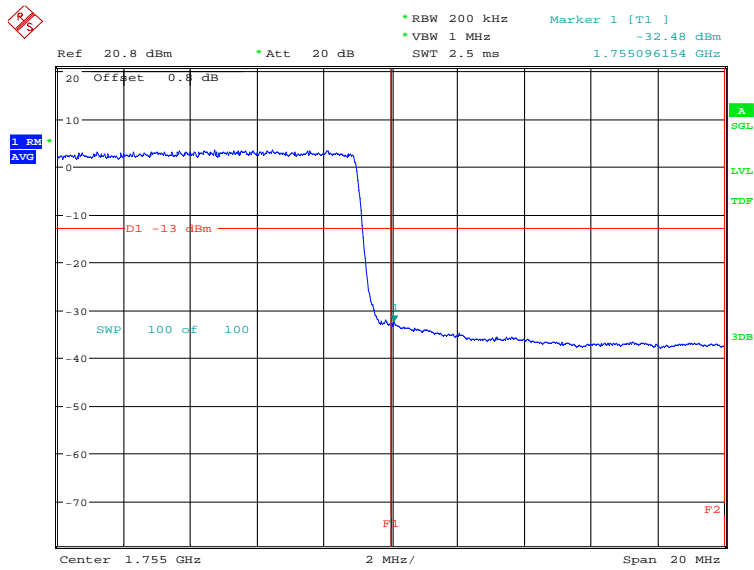
Date: 29.AUG.2024 10:06:41

LOW BAND EDGE BLOCK-20MHz-100%RB



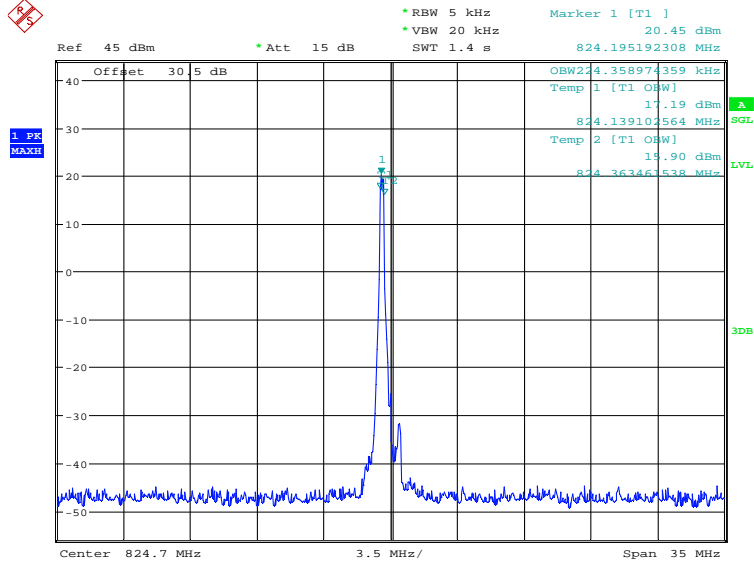
Date: 29.AUG.2024 10:03:10

HIGH BAND EDGE BLOCK-20MHz-100%RB



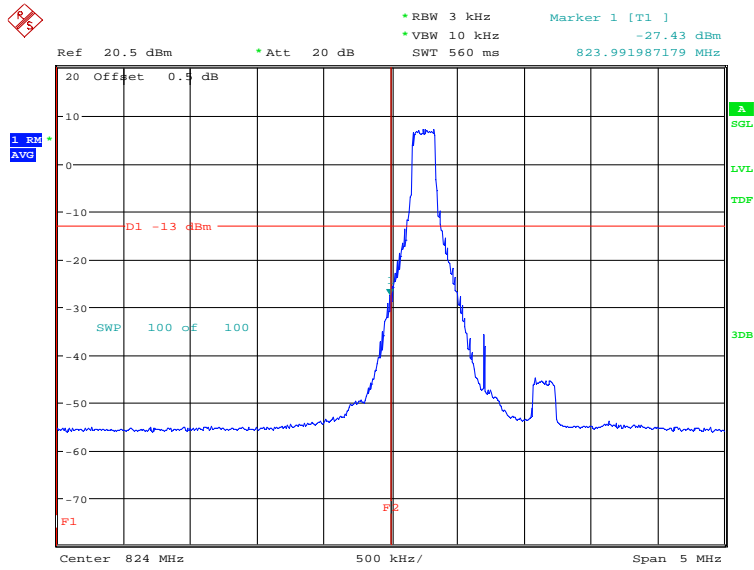
Date: 29.AUG.2024 10:07:29

LTE band 5
OBW: 1RB-low_offset



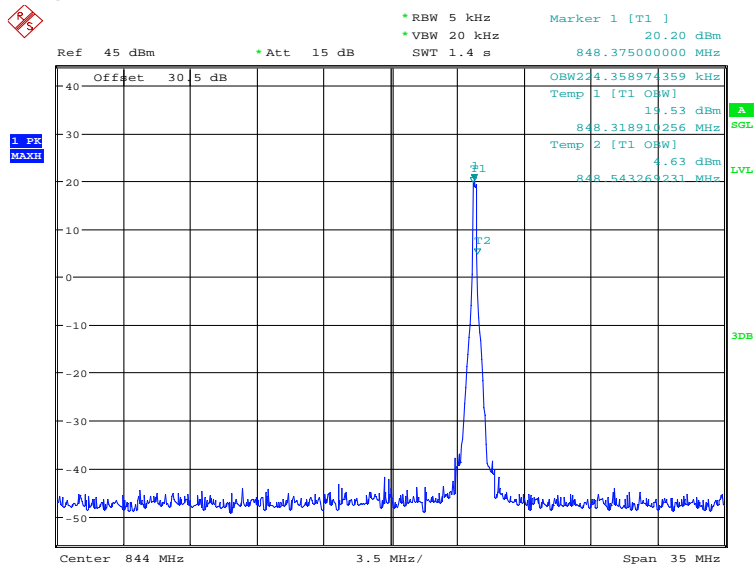
Date: 29.AUG.2024 09:02:11

LOW BAND EDGE BLOCK-1RB-low_offset



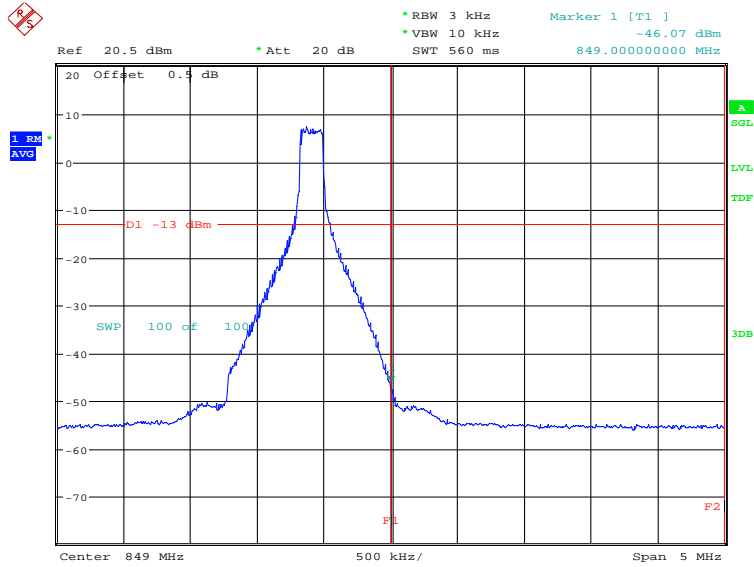
Date: 29.AUG.2024 09:03:25

OBW: 1RB-high_offset



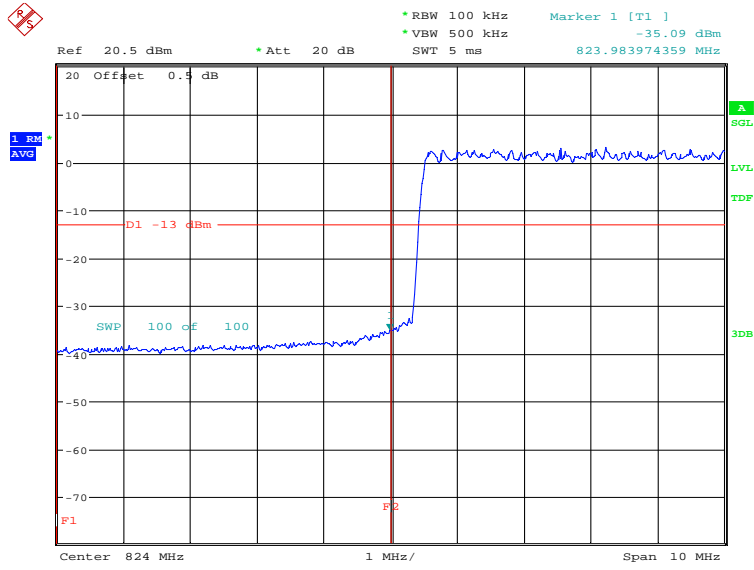
Date: 29.AUG.2024 09:05:47

HIGH BAND EDGE BLOCK-1RB-high_offset



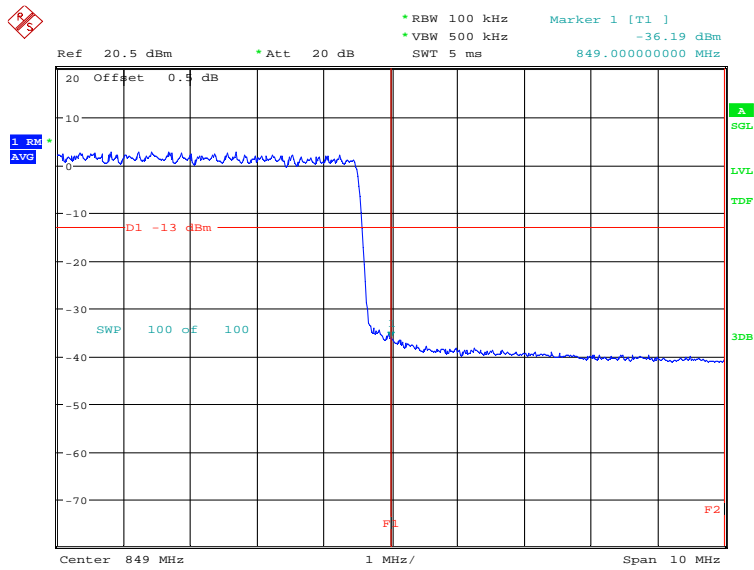
Date: 29.AUG.2024 09:07:01

LOW BAND EDGE BLOCK-10MHz-100%RB



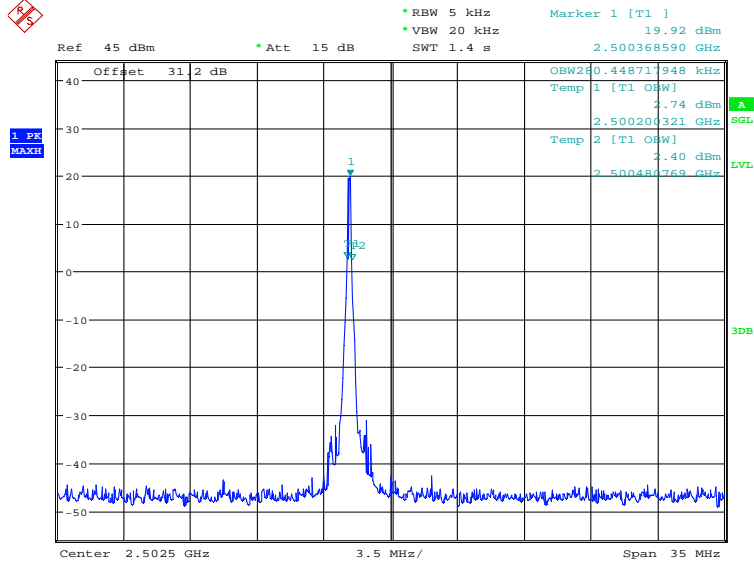
Date: 29.AUG.2024 09:04:13

HIGH BAND EDGE BLOCK-10MHz-100%RB



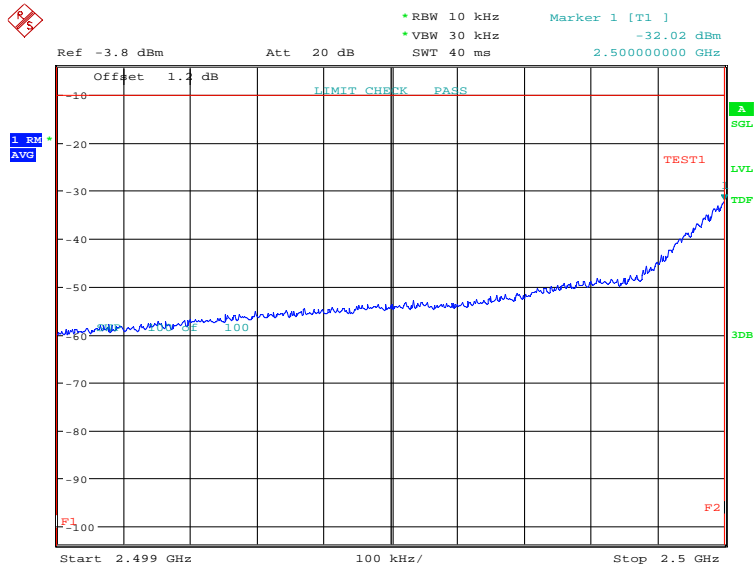
Date: 29.AUG.2024 09:07:35

LTE band 7
OBW: 1RB-low_offset

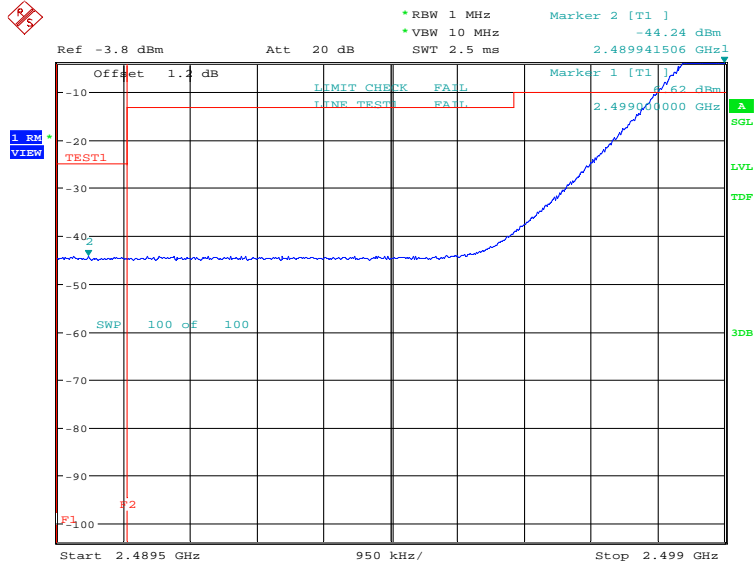


Date: 29.AUG.2024 08:39:21

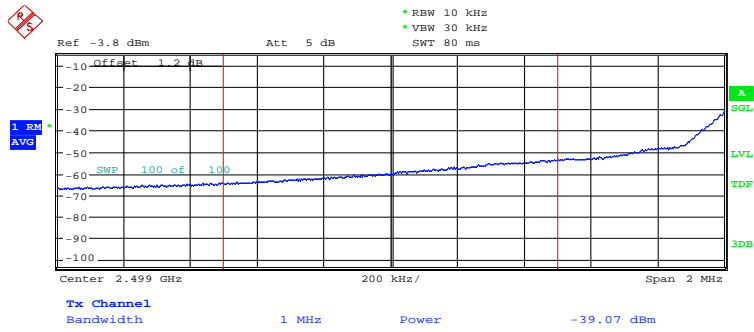
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 29.AUG.2024 08:40:43

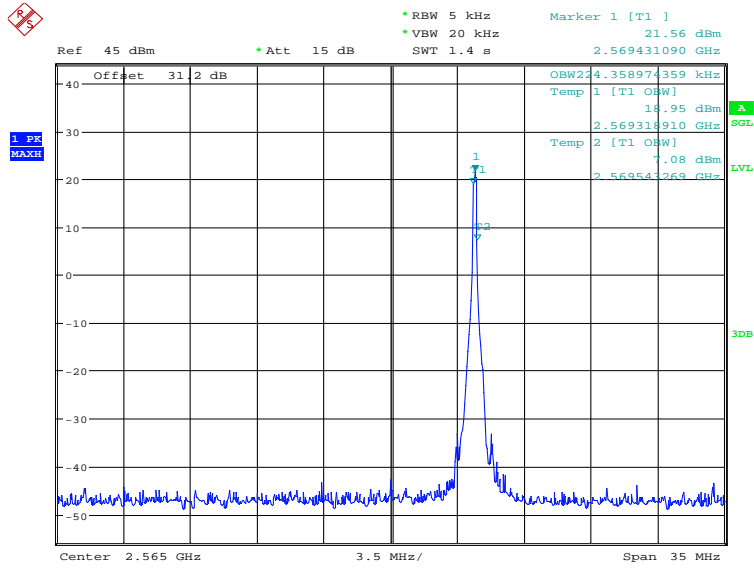


Date: 29.AUG.2024 08:42:32



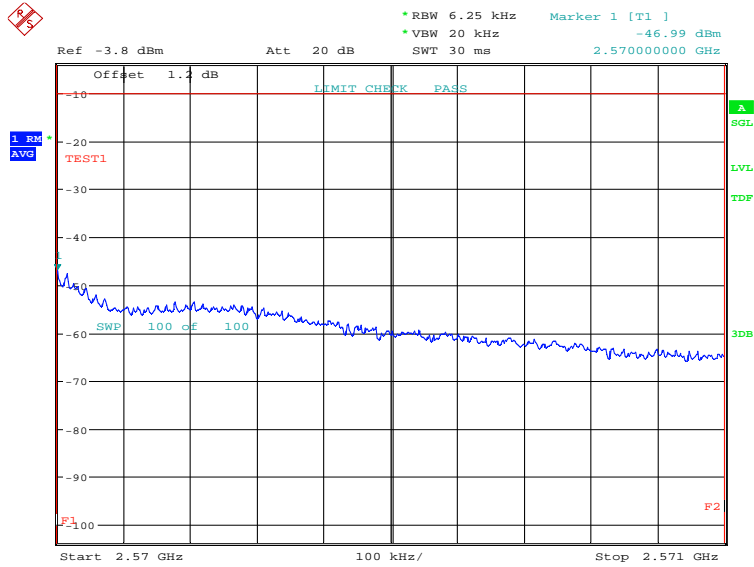
Date: 29.AUG.2024 08:43:00

OBW: 1RB-high_offset

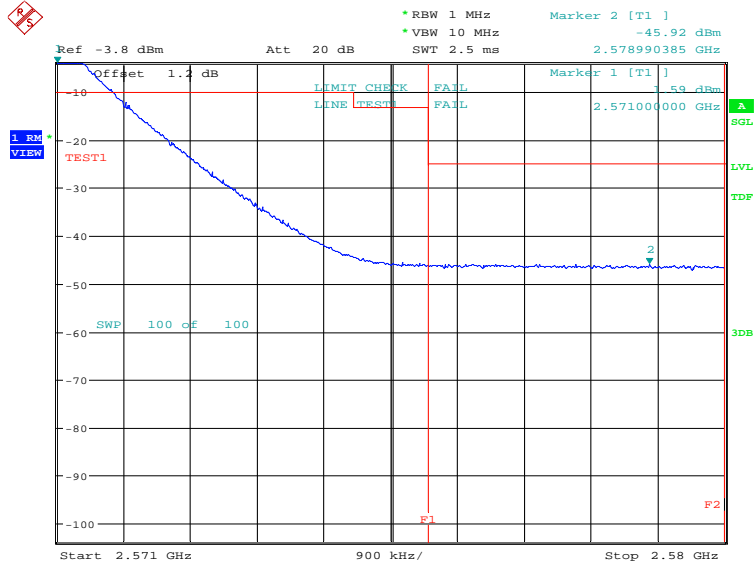


Date: 29.AUG.2024 08:43:38

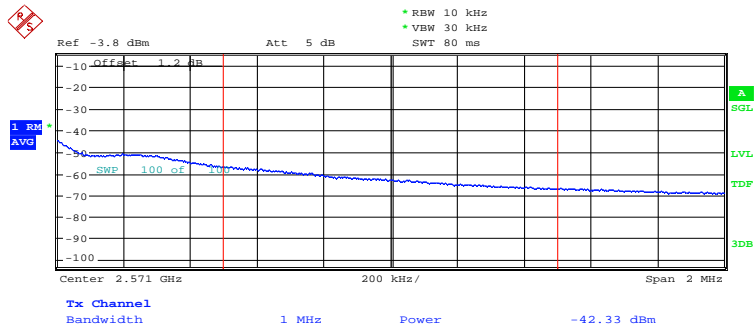
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 29.AUG.2024 08:44:59

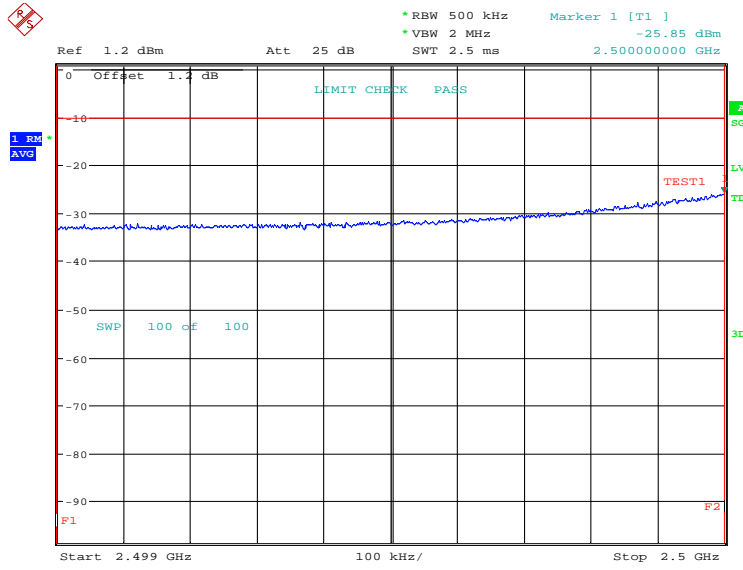


Date: 29.AUG.2024 08:46:48

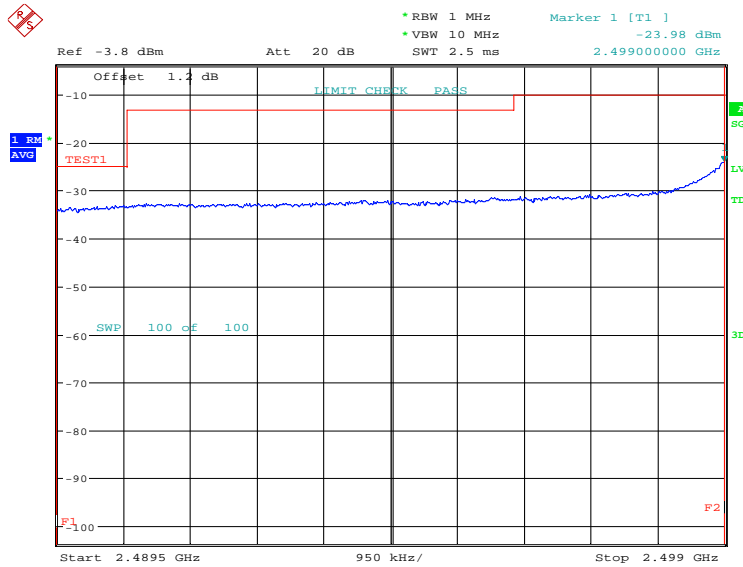


Date: 29.AUG.2024 08:47:16

LOW BAND EDGE BLOCK-20MHz-100%RB

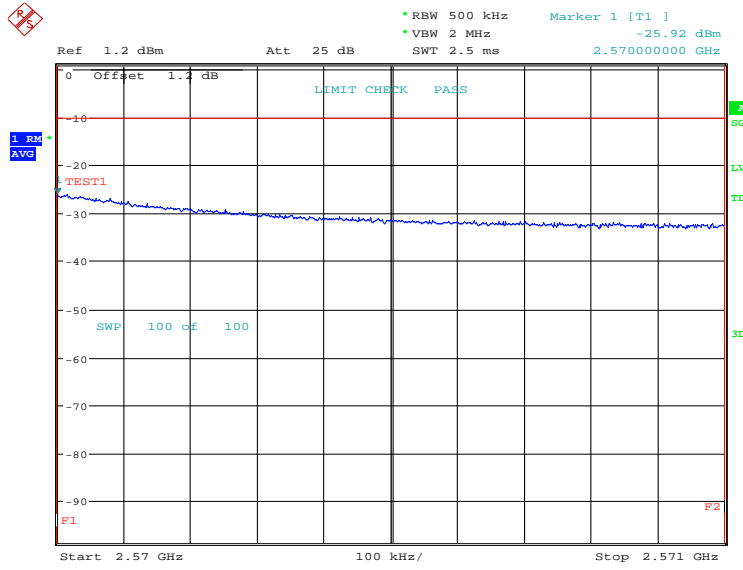


Date: 1.AUG.2024 11:33:01

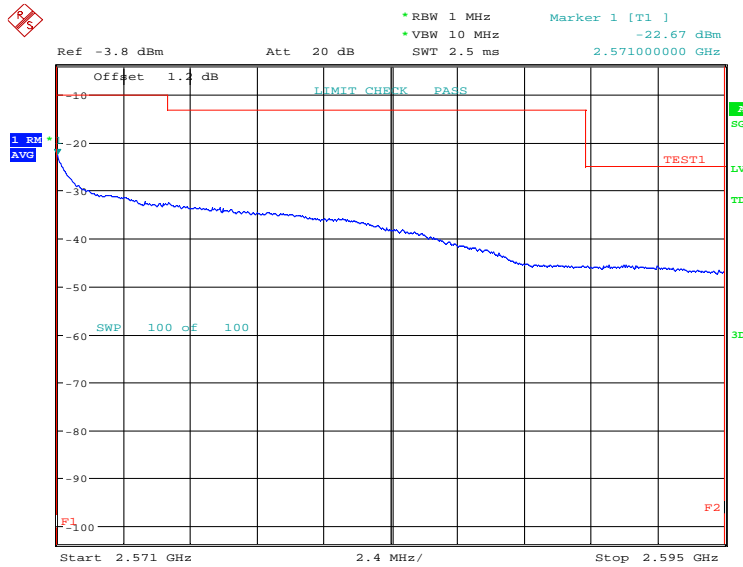


Date: 1.AUG.2024 11:34:42

HIGH BAND EDGE BLOCK-20MHz-100%RB

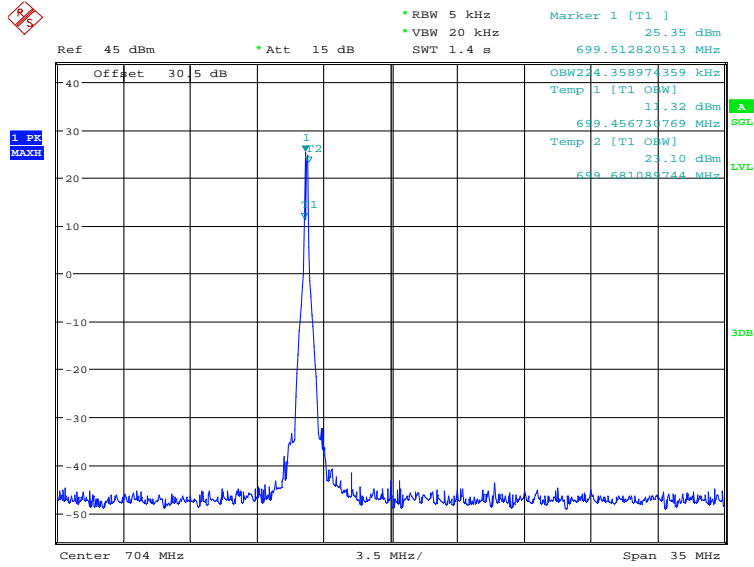


Date: 1.AUG.2024 11:37:40



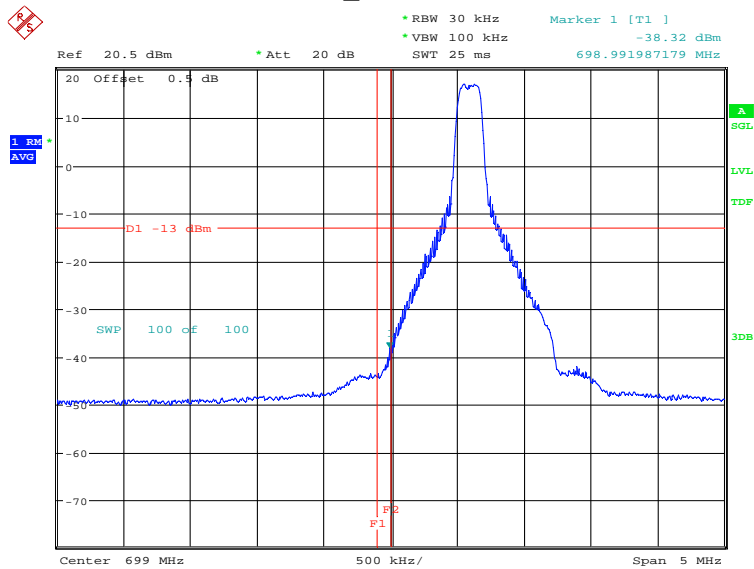
Date: 1.AUG.2024 11:39:21

LTE band 12
OBW: 1RB-low_offset



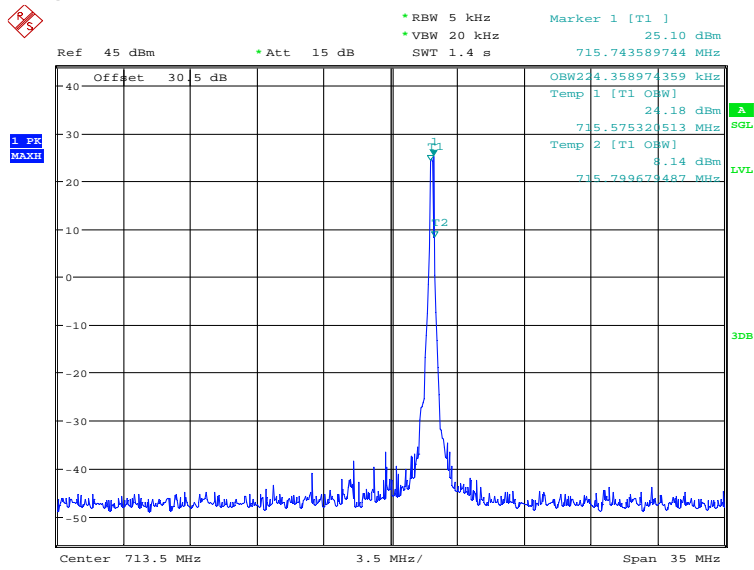
Date: 29.AUG.2024 09:09:11

LOW BAND EDGE BLOCK-1RB-low_offset



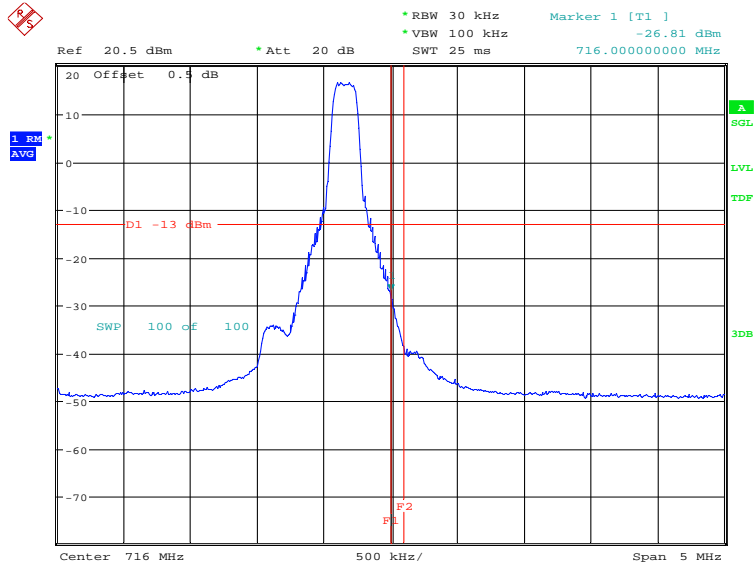
Date: 29.AUG.2024 09:09:31

OBW: 1RB-high_offset



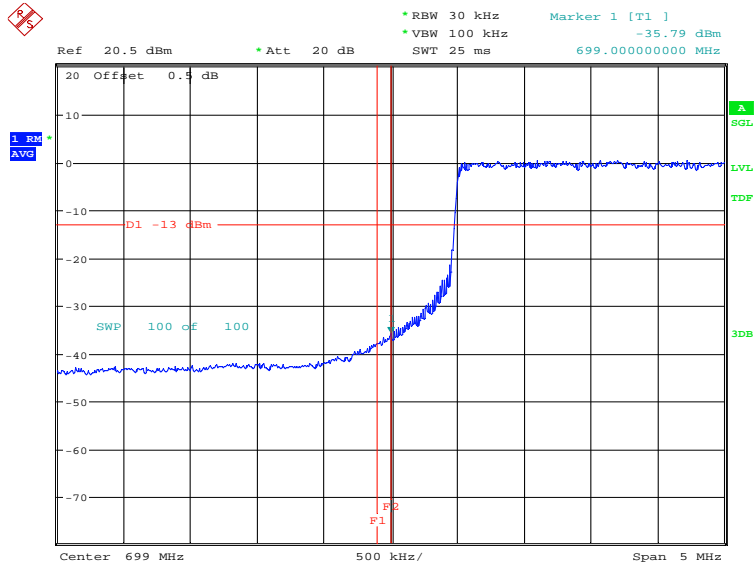
Date: 29.AUG.2024 09:10:50

HIGH BAND EDGE BLOCK-1RB-high_offset



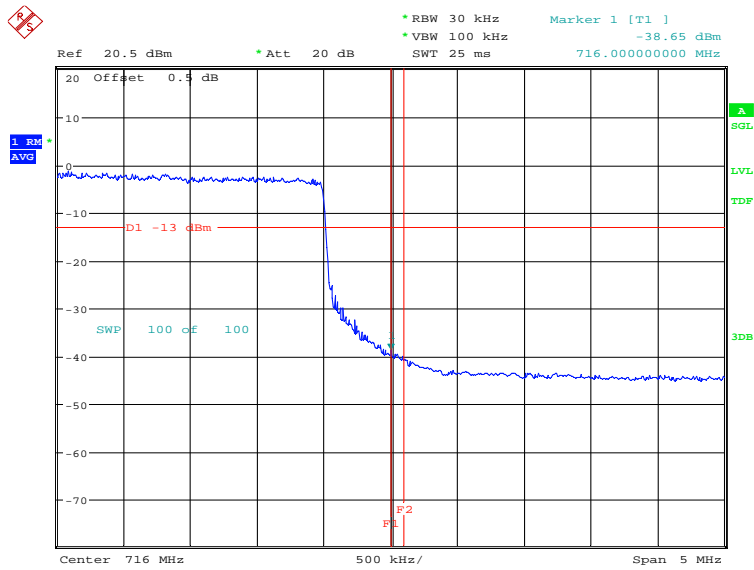
Date: 29.AUG.2024 09:11:09

LOW BAND EDGE BLOCK-10MHz-100%RB



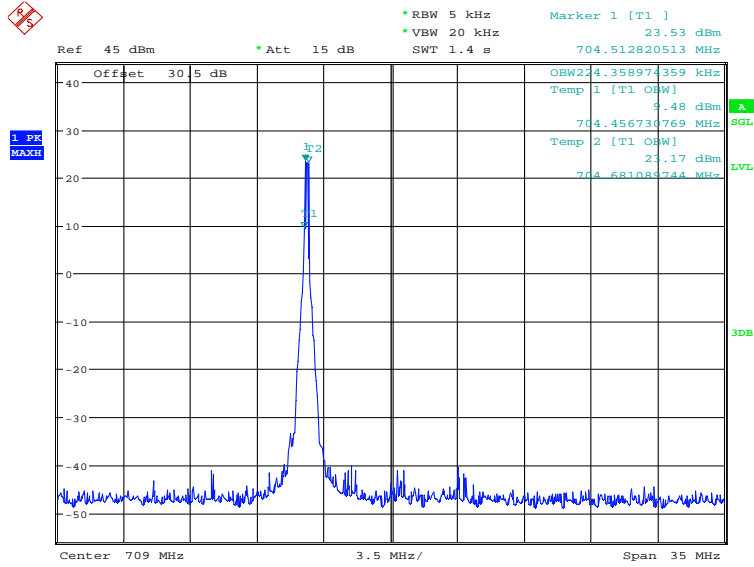
Date: 29.JUL.2024 15:28:57

HIGH BAND EDGE BLOCK-10MHz-100%RB



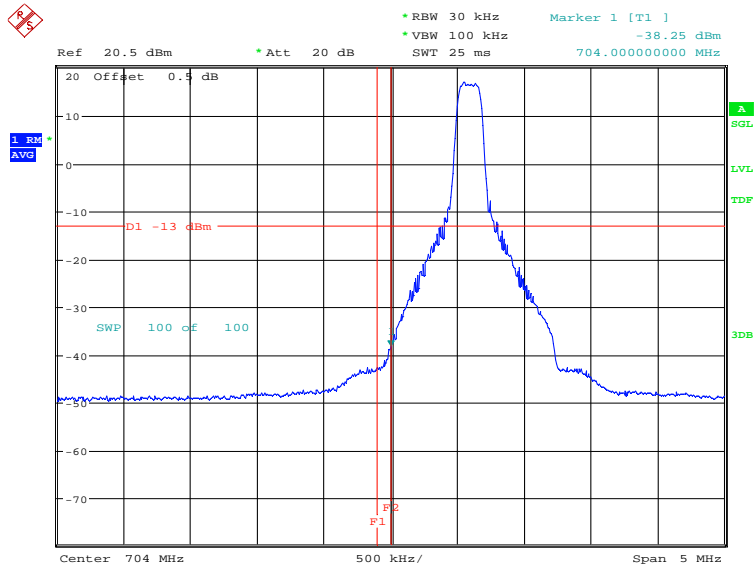
Date: 29.JUL.2024 15:30:29

LTE band 17
OBW: 1RB-low_offset



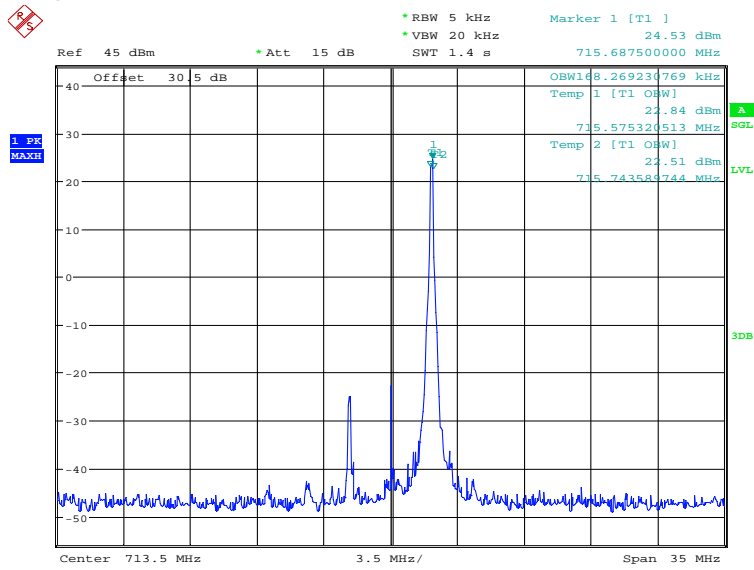
Date: 29.AUG.2024 09:11:52

LOW BAND EDGE BLOCK-1RB-low_offset



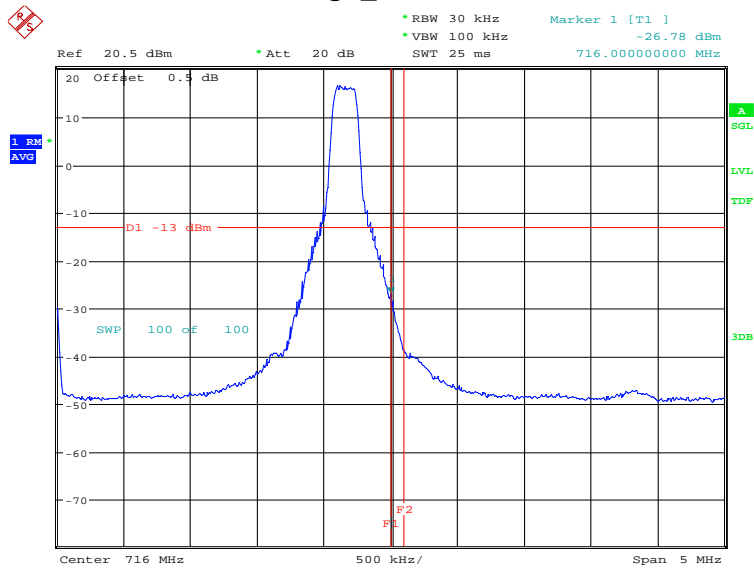
Date: 29.AUG.2024 09:12:11

OBW: 1RB-high_offset



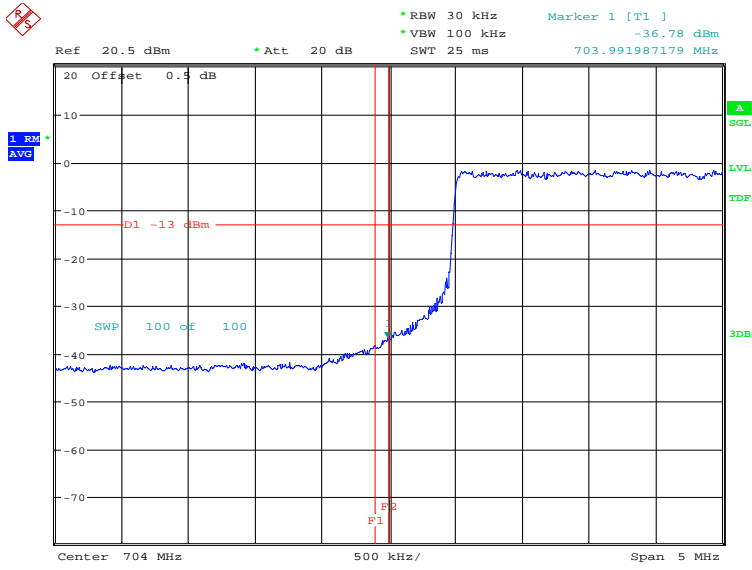
Date: 29.AUG.2024 09:15:01

HIGH BAND EDGE BLOCK-1RB-high_offset



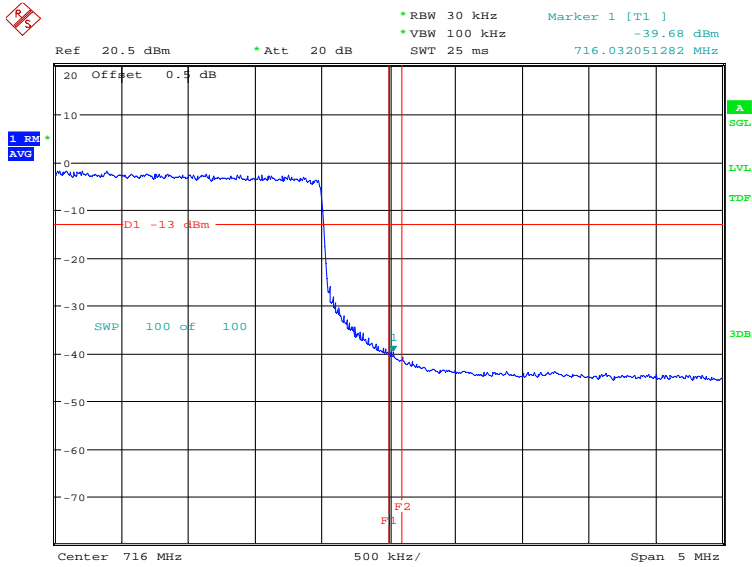
Date: 29.AUG.2024 09:15:21

LOW BAND EDGE BLOCK-10MHz-100%RB



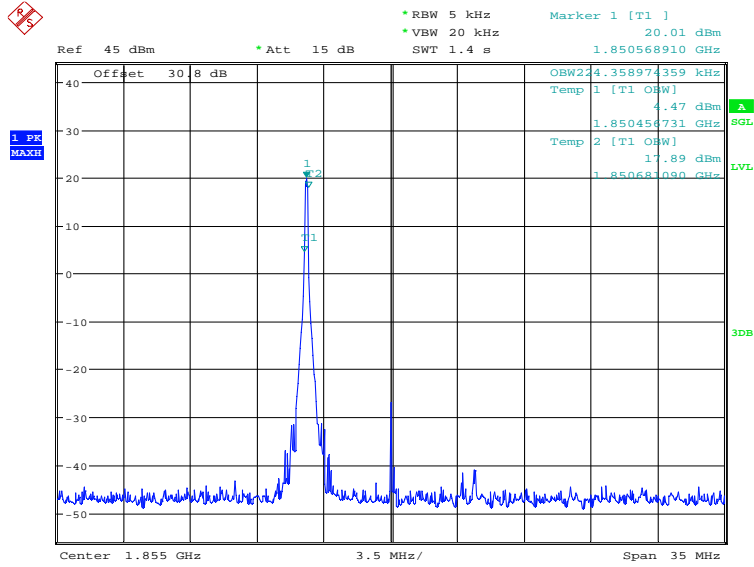
Date: 29.AUG.2024 09:12:45

HIGH BAND EDGE BLOCK-10MHz-100%RB



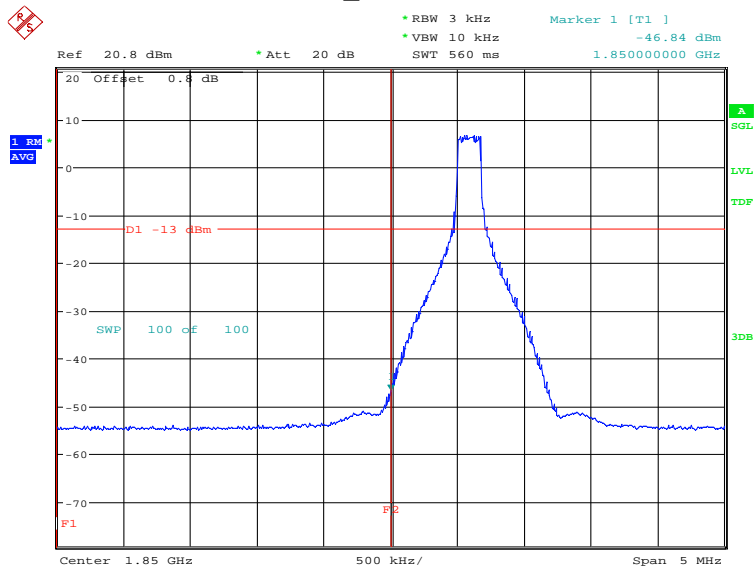
Date: 29.AUG.2024 09:15:59

LTE band 25
OBW: 1RB-low_offset



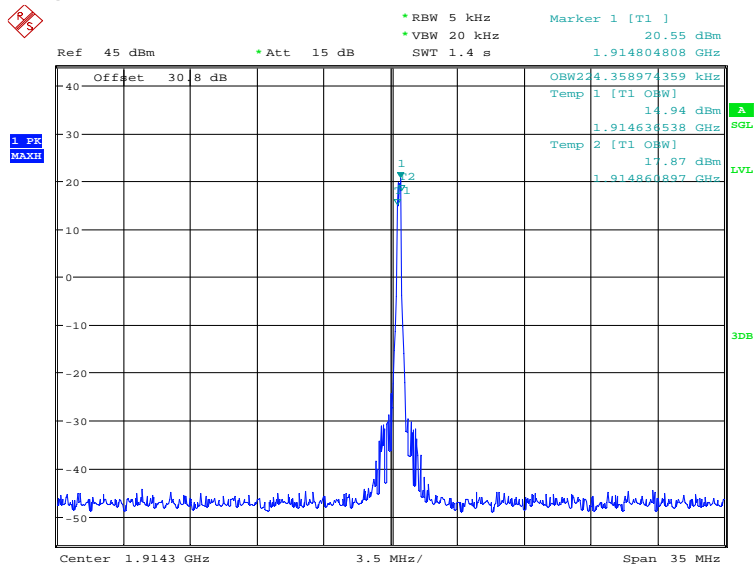
Date: 29.AUG.2024 10:09:52

LOW BAND EDGE BLOCK-1RB-low_offset



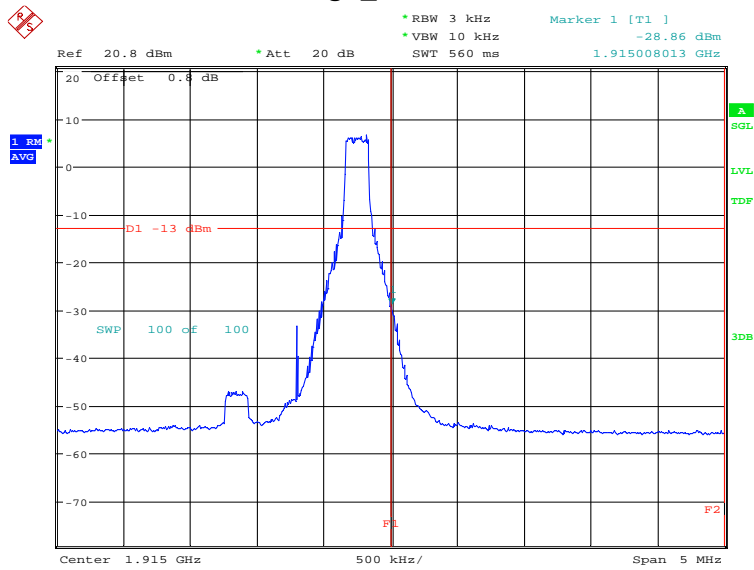
Date: 29.AUG.2024 10:11:07

OBW: 1RB-high_offset



Date: 29.AUG.2024 10:12:28

HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 29.AUG.2024 10:13:42