



TEST REPORT

No. I21Z60426-WMD03

for

Wingtech Group (Hong Kong) Limited

5G Mobile Phone

Model Name: WTRVL5G

FCC ID: 2APXW-WTRVL5G

with

Hardware Version: V1.3

Software Version: WTRVL5G_0.01.10

Issued Date: 2021-05-10

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z60426-WMD03	Rev.0	1 st edition	2021-05-10

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 NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP 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(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China 100191

1.3. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2021-03-08
Testing End Date: 2021-04-28

1.5. Signature



Dong Yuan
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
Deputy Director of the laboratory
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Wingtech Group (Hong Kong) Limited
Address /Post: Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui
Kowloon, Hong Kong
Contact: NA
Email: NA
Telephone: NA

2.2. Manufacturer Information

Company Name: Wingtech Group (Hong Kong) Limited
Address /Post: Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui
Kowloon, Hong Kong
Contact: NA
Email: NA
Telephone: NA

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

3.1. About EUT

Description	5G Mobile Phone
Model Name	WTRVL5G
FCC ID	2APXW-WTRVL5G
Antenna	Embedded
Output power	26.97dBm maximum EIRP measured for LTE Band 41
Extreme vol. Limits	3.6VDC to 4.45VDC (nominal: 3.87VDC)
Extreme temp. Tolerance	-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
UT32a	357492490009840	V1.3	WTRVL5G_0.01.10	2021-03-05
UT93a	357492490017504	V1.3	WTRVL5G_0.01.10	2021-03-30

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE1	
Model	TM001
Manufacturer	Jiade Energy Technology (Zhuhai) 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, referring to Annex A for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-19 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-19 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-19 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-19 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. Laboratory Environment

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber SAC-1 (23 meters × 17 meters × 10 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014 MHz - 1 MHz, > 60 dB; 1 MHz - 1000 MHz, > 90 dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1 GHz to 18 GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Fully-anechoic chamber FAC-3 (8.6 meters × 6.1 meters × 3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1 GHz to 18 GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. Summary Of Test Result

LTE Band 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 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 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 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

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 13

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

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)

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

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.

LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, test data provided in this report covers Band 38 as well as Band 41.

LTE Band 41 is tested by power class 2.

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 and 64QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

7. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2021-12-17	1 year
Spectrum Analyzer	FSU	200030	R&S	2021-06-01	1 year
Radio Communication Analyzer	MT8821C	6201763159	Anritsu	2021-08-12	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
EMI Antenna	9117	167	Schwarzbeck	2021-08-19	1 year
EMI Antenna	3117	00058889	ETS-Lindgren	2021-09-22	1 year
EMI Antenna	3117	00119024	ETS-Lindgren	2021-05-08	1 year
Test Receiver	E4440A	MY48250642	Agilent	2022-03-04	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2022-01-01	1 year
EMI Antenna	VULB9163	9163-301	Schwarzbeck	2021-08-04	1 year
Signal Generator	N5183A	MY49060052	Agilent	2021-07-01	1 year

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.

A.1.2.2 Measurement Result

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	23.47	22.69	21.78
		1880.0	23.58	22.82	21.82
		1850.7	23.59	22.85	21.89
	1 RB low	1909.3	23.53	22.80	21.87
		1880.0	23.55	22.76	21.93
		1850.7	23.58	22.83	21.83
	50% RB mid	1909.3	23.54	22.61	21.83
		1880.0	23.55	22.59	21.78
		1850.7	23.61	22.61	21.84
	100% RB	1909.3	22.54	21.78	20.64
		1880.0	22.57	21.73	20.61
		1850.7	22.62	21.85	20.64
3MHz	1 RB high	1908.5	23.48	22.69	21.80
		1880.0	23.55	22.75	21.89
		1851.5	23.62	22.92	21.86
	1 RB low	1908.5	23.50	22.82	21.84
		1880.0	23.57	22.78	21.86
		1851.5	23.60	22.79	21.84
	50% RB mid	1908.5	22.47	21.75	20.74
		1880.0	22.54	21.72	20.67
		1851.5	22.58	21.78	20.72
	100% RB	1908.5	22.53	21.76	20.68

		1880.0	22.50	21.68	20.67
		1851.5	22.57	21.75	20.74
5MHz	1 RB high	1907.5	23.52	22.77	21.78
		1880.0	23.55	22.78	21.82
		1852.5	23.42	22.84	21.85
	1 RB low	1907.5	23.51	22.70	21.77
		1880.0	23.58	22.83	21.89
		1852.5	23.54	22.71	21.85
	50% RB mid	1907.5	22.48	21.66	20.72
		1880.0	22.49	21.59	20.64
		1852.5	22.53	21.64	20.67
	100% RB	1907.5	22.51	21.73	20.68
		1880.0	22.54	21.66	20.67
		1852.5	22.57	21.70	20.69
10MHz	1 RB high	1905.0	23.42	22.74	21.83
		1880.0	23.53	22.70	21.81
		1855.0	23.53	22.72	21.75
	1 RB low	1905.0	23.46	22.67	21.79
		1880.0	23.53	22.68	21.80
		1855.0	23.57	22.77	21.84
	50% RB mid	1905.0	22.51	21.70	20.68
		1880.0	22.47	21.65	20.68
		1855.0	22.56	21.72	20.74
	100% RB	1905.0	22.47	21.67	20.65
		1880.0	22.49	21.61	20.60
		1855.0	22.58	21.67	20.68
15MHz	1 RB high	1902.5	23.44	22.62	21.82
		1880.0	23.44	22.66	21.71
		1857.5	23.45	22.76	21.68
	1 RB low	1902.5	23.45	22.62	21.80
		1880.0	23.42	22.58	21.70
		1857.5	23.53	22.72	21.83
	50% RB mid	1902.5	22.48	21.61	20.61
		1880.0	22.50	21.63	20.62
		1857.5	22.51	21.64	20.67
	100% RB	1902.5	22.50	21.58	20.57
		1880.0	22.49	21.62	20.57
		1857.5	22.55	21.67	20.63
20MHz	1 RB high	1900.0	23.47	22.67	21.68
		1880.0	23.45	22.72	21.70
		1860.0	23.50	22.60	21.66
	1 RB low	1900.0	23.46	22.71	21.68



		1880.0	23.50	22.77	21.66
		1860.0	23.53	22.73	21.76
	50% RB mid	1900.0	22.57	21.66	20.68
		1880.0	22.52	21.64	20.64
		1860.0	22.58	21.67	20.65
	100% RB	1900.0	22.49	21.61	20.59
		1880.0	22.52	21.64	20.61
		1860.0	22.57	21.63	20.62

LTE band 4

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.39	22.74	21.64
		1732.5	23.29	22.69	21.61
		1710.7	23.44	22.78	21.64
	1 RB low	1754.3	23.46	22.60	21.59
		1732.5	23.30	22.72	21.68
		1710.7	23.41	22.77	21.70
	50% RB mid	1754.3	23.29	22.46	21.63
		1732.5	23.36	22.51	21.55
		1710.7	23.40	22.56	21.65
	100% RB	1754.3	22.45	21.53	20.39
		1732.5	22.45	21.50	20.48
		1710.7	22.54	21.60	20.43
3MHz	1 RB high	1753.5	23.47	22.66	21.61
		1732.5	23.31	22.76	21.61
		1711.5	23.42	22.67	21.61
	1 RB low	1753.5	23.50	22.62	21.56
		1732.5	23.32	22.76	21.59
		1711.5	23.42	22.70	21.67
	50% RB mid	1753.5	22.46	21.56	20.48
		1732.5	22.44	21.51	20.46
		1711.5	22.55	21.63	20.56
	100% RB	1753.5	22.48	21.51	20.46
		1732.5	22.47	21.50	20.44
		1711.5	22.56	21.59	20.51
5MHz	1 RB high	1752.5	23.52	22.80	21.59
		1732.5	23.37	22.78	21.69
		1712.5	23.45	22.79	21.72
	1 RB low	1752.5	23.51	22.70	21.57
		1732.5	23.42	22.80	21.68
		1712.5	23.45	22.85	21.69
	50% RB mid	1752.5	22.50	21.49	20.54
		1732.5	22.49	21.50	20.50
		1712.5	22.54	21.55	20.55
	100% RB	1752.5	22.55	21.51	20.49
		1732.5	22.51	21.49	20.48
		1712.5	22.50	21.55	20.54
10MHz	1 RB high	1750.0	23.53	22.73	21.60
		1732.5	23.32	22.65	21.59
		1715.0	23.40	22.67	21.68

	1 RB low	1750.0	23.45	22.71	21.53
		1732.5	23.37	22.78	21.68
		1715.0	23.45	22.74	21.64
	50% RB mid	1750.0	22.47	21.49	20.45
		1732.5	22.43	21.52	20.47
		1715.0	22.46	21.53	20.51
	100% RB	1750.0	22.47	21.44	20.39
		1732.5	22.48	21.48	20.47
		1715.0	22.45	21.49	20.51
15MHz	1 RB high	1747.5	23.23	22.65	21.57
		1732.5	23.24	22.57	21.53
		1717.5	23.33	22.64	21.60
	1 RB low	1747.5	23.29	22.73	21.58
		1732.5	23.31	22.69	21.57
		1717.5	23.40	22.64	21.60
	50% RB mid	1747.5	22.41	21.38	20.37
		1732.5	22.45	21.53	20.45
		1717.5	22.51	21.54	20.51
	100% RB	1747.5	22.43	21.44	20.43
		1732.5	22.44	21.47	20.45
		1717.5	22.49	21.49	20.45
20MHz	1 RB high	1745.0	23.25	22.61	21.49
		1732.5	23.21	22.56	21.43
		1720.0	23.30	22.63	21.50
	1 RB low	1745.0	23.28	22.49	21.54
		1732.5	23.32	22.72	21.45
		1720.0	23.36	22.58	21.55
	50% RB mid	1745.0	22.42	21.40	20.48
		1732.5	22.51	21.44	20.39
		1720.0	22.49	21.51	20.43
	100% RB	1745.0	22.37	21.37	20.42
		1732.5	22.44	21.45	20.39
		1720.0	22.52	21.50	20.46

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	24.00	23.25	22.15
		836.5	24.05	23.36	22.22
		824.7	24.13	23.38	22.21
	1 RB low	848.3	23.99	23.14	22.22
		836.5	24.08	23.31	22.21
		824.7	24.10	23.21	22.20
	50% RB mid	848.3	24.01	23.01	22.08
		836.5	24.10	23.09	22.10
		824.7	24.10	23.15	22.14
	100% RB	848.3	23.02	22.11	20.95
		836.5	23.09	22.15	20.99
		824.7	23.10	22.08	20.99
3MHz	1 RB high	847.5	23.98	23.24	22.13
		836.5	24.01	23.38	22.15
		825.5	24.12	23.23	22.24
	1 RB low	847.5	24.02	23.21	22.12
		836.5	24.07	23.39	22.25
		825.5	24.11	23.27	22.25
	50% RB mid	847.5	23.00	22.10	21.02
		836.5	23.07	22.15	21.08
		825.5	23.13	22.14	21.13
	100% RB	847.5	23.00	22.06	21.00
		836.5	23.05	22.08	21.04
		825.5	23.06	22.06	21.06
5MHz	1 RB high	846.5	24.08	23.26	22.09
		836.5	24.06	23.27	22.20
		826.5	24.17	23.34	22.28
	1 RB low	846.5	24.07	23.20	22.15
		836.5	24.15	23.37	22.29
		826.5	24.13	23.25	22.23
	50% RB mid	846.5	23.02	22.02	21.00
		836.5	23.06	22.09	21.06
		826.5	23.08	22.11	21.12
	100% RB	846.5	23.04	22.03	21.00
		836.5	23.09	22.06	21.02
		826.5	23.13	22.12	21.10
10MHz	1 RB high	844.0	23.98	23.17	22.07
		836.5	24.05	23.15	22.07
		829.0	24.06	23.31	22.15



	1 RB low	844.0	24.07	23.27	22.13
		836.5	24.15	23.45	22.29
		829.0	24.11	23.30	22.17
	50% RB mid	844.0	23.02	22.04	21.03
		836.5	23.03	22.01	21.05
		829.0	23.11	22.08	21.09
	100% RB	844.0	23.04	22.05	21.02
		836.5	23.02	22.02	21.02
		829.0	23.14	22.14	21.10

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	23.13	22.58	21.46
		2535.0	23.15	22.30	21.25
		2502.5	23.40	22.58	21.47
	1 RB low	2567.5	23.14	22.60	21.52
		2535.0	23.14	22.53	21.40
		2502.5	23.39	22.72	21.60
	50% RB mid	2567.5	22.11	21.26	20.45
		2535.0	22.13	21.08	20.24
		2502.5	22.37	21.37	20.51
	100% RB	2567.5	22.10	21.30	20.43
		2535.0	22.14	21.11	20.25
		2502.5	22.38	21.37	20.51
10MHz	1 RB high	2565.0	23.15	22.65	21.40
		2535.0	23.11	22.43	21.32
		2505.0	23.30	22.59	21.45
	1 RB low	2565.0	23.16	22.53	21.38
		2535.0	23.12	22.42	21.24
		2505.0	23.41	22.68	21.48
	50% RB mid	2565.0	22.17	21.37	20.49
		2535.0	22.15	21.13	20.24
		2505.0	22.36	21.36	20.45
	100% RB	2565.0	22.17	21.34	20.44
		2535.0	22.19	21.14	20.23
		2505.0	22.40	21.35	20.43
15MHz	1 RB high	2562.5	23.16	22.50	21.42
		2535.0	23.07	22.44	21.15
		2507.5	23.15	22.38	21.32
	1 RB low	2562.5	23.13	22.50	21.37
		2535.0	23.09	22.41	21.24
		2507.5	23.34	22.55	21.38
	50% RB mid	2562.5	22.10	21.31	20.45
		2535.0	22.10	21.11	20.25
		2507.5	22.26	21.28	20.42
	100% RB	2562.5	22.14	21.26	20.36
		2535.0	22.14	21.10	20.21
		2507.5	22.27	21.32	20.38
20MHz	1 RB high	2560.0	23.27	22.42	21.34
		2535.0	23.06	22.31	21.21
		2510.0	23.09	22.30	21.31



	1 RB low	2560.0	23.12	22.43	21.25
		2535.0	23.06	22.36	21.23
		2510.0	23.32	22.62	21.33
	50% RB mid	2560.0	22.27	21.27	20.38
		2535.0	22.15	21.15	20.31
		2510.0	22.32	21.28	20.43
	100% RB	2560.0	22.26	21.24	20.37
		2535.0	22.13	21.06	20.24
		2510.0	22.28	21.27	20.38

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	24.45	23.77	22.70
		707.5	24.51	23.65	22.63
		699.7	24.54	23.72	22.60
	1 RB low	715.3	24.49	23.77	22.67
		707.5	24.52	23.67	22.59
		699.7	24.52	23.75	22.60
	50% RB mid	715.3	24.48	23.57	22.67
		707.5	24.49	23.43	22.54
		699.7	24.52	23.52	22.58
	100% RB	715.3	23.46	22.60	21.50
		707.5	23.46	22.55	21.43
		699.7	23.53	22.62	21.48
3MHz	1 RB high	714.5	24.46	23.68	22.63
		707.5	24.46	23.71	22.57
		700.5	24.46	23.69	22.61
	1 RB low	714.5	24.44	23.75	22.59
		707.5	24.46	23.66	22.60
		700.5	24.53	23.69	22.64
	50% RB mid	714.5	23.46	22.55	21.50
		707.5	23.47	22.52	21.50
		700.5	23.46	22.53	21.48
	100% RB	714.5	23.43	22.49	21.49
		707.5	23.43	22.50	21.42
		700.5	23.47	22.50	21.50
5MHz	1 RB high	713.5	24.51	23.79	22.64
		707.5	24.52	23.66	22.61
		701.5	24.53	23.78	22.60
	1 RB low	713.5	24.53	23.85	22.63
		707.5	24.53	23.67	22.63
		701.5	24.57	23.81	22.61
	50% RB mid	713.5	23.46	22.49	21.54
		707.5	23.46	22.46	21.48
		701.5	23.50	22.45	21.43
	100% RB	713.5	23.47	22.49	21.47
		707.5	23.46	22.50	21.45
		701.5	23.49	22.43	21.45
10MHz	1 RB high	711.0	24.55	23.70	22.67
		707.5	24.55	23.72	22.59
		704.0	24.49	23.66	22.50



	1 RB low	711.0	24.52	23.65	22.55
		707.5	24.57	23.70	22.63
		704.0	24.62	23.82	22.68
	50% RB mid	711.0	23.59	22.52	21.55
		707.5	23.47	22.48	21.51
		704.0	23.48	22.52	21.51
	100% RB	711.0	23.60	22.55	21.58
		707.5	23.48	22.46	21.44
		704.0	23.49	22.45	21.41

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	22.84	22.21	20.94
		782.0	22.82	22.14	20.94
		779.5	22.86	22.15	20.97
	1 RB low	784.5	22.84	22.15	20.93
		782.0	22.87	22.11	20.90
		779.5	22.87	22.07	20.92
	50% RB mid	784.5	21.84	20.82	19.83
		782.0	21.80	20.78	19.84
		779.5	21.77	20.76	19.78
	100% RB	784.5	21.82	20.82	19.78
		782.0	21.84	20.83	19.78
		779.5	21.75	20.74	19.73
10MHz	1 RB high	782.0	22.80	22.04	20.90
	1 RB low	782.0	22.86	22.11	20.96
	50% RB mid	782.0	21.79	20.84	19.81
	100% RB	782.0	21.79	20.76	19.76

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	23.84	22.86	22.01
		1882.5	23.97	23.15	22.19
		1850.7	24.00	23.16	22.21
	1 RB low	1914.3	23.87	22.94	22.11
		1882.5	23.97	23.09	22.24
		1850.7	23.98	23.09	22.14
	50% RB mid	1914.3	23.92	22.92	22.04
		1882.5	23.94	22.99	22.12
		1850.7	23.97	22.98	22.11
	100% RB	1914.3	22.93	22.11	20.96
		1882.5	22.98	22.11	20.91
		1850.7	22.97	22.17	21.05
3MHz	1 RB high	1913.5	23.90	22.92	22.15
		1882.5	23.96	23.18	22.28
		1851.5	24.02	23.11	22.26
	1 RB low	1913.5	23.91	23.07	22.09
		1882.5	23.99	23.18	22.23
		1851.5	24.00	23.22	22.14
	50% RB mid	1913.5	22.97	22.09	21.05
		1882.5	22.96	22.08	21.06
		1851.5	22.94	22.16	21.07
	100% RB	1913.5	22.91	22.08	21.01
		1882.5	22.92	22.06	21.01
		1851.5	22.96	22.07	21.05
5MHz	1 RB high	1912.5	23.98	23.11	22.16
		1882.5	24.05	23.25	22.18
		1852.5	24.08	23.19	22.19
	1 RB low	1912.5	24.04	23.13	22.18
		1882.5	24.10	23.23	22.23
		1852.5	24.09	23.29	22.20
	50% RB mid	1912.5	23.06	22.10	21.10
		1882.5	23.02	22.13	21.14
		1852.5	23.01	22.15	21.16
	100% RB	1912.5	22.99	22.14	21.06
		1882.5	23.04	22.15	21.11
		1852.5	23.02	22.15	21.11
10MHz	1 RB high	1910.0	24.13	23.17	22.30
		1882.5	24.18	23.28	22.30
		1855.0	24.18	23.25	22.29

	1 RB low	1910.0	24.23	23.26	22.28
		1882.5	24.17	23.25	22.28
		1855.0	24.20	23.31	22.30
	50% RB mid	1910.0	23.17	22.23	21.15
		1882.5	23.15	22.20	21.17
		1855.0	23.16	22.22	21.16
	100% RB	1910.0	23.14	22.20	21.12
		1882.5	23.09	22.24	21.13
		1855.0	23.16	22.22	21.13
15MHz	1 RB high	1907.5	23.82	22.92	22.11
		1882.5	23.85	23.09	22.16
		1857.5	23.86	23.00	22.15
	1 RB low	1907.5	23.88	23.16	22.21
		1882.5	23.87	23.13	22.12
		1857.5	23.94	23.14	22.22
	50% RB mid	1907.5	22.88	22.06	21.05
		1882.5	22.93	22.04	21.02
		1857.5	22.95	22.06	21.07
	100% RB	1907.5	22.85	22.02	20.95
		1882.5	22.89	22.01	21.16
		1857.5	22.94	22.02	21.05
20MHz	1 RB high	1905.0	23.85	22.94	22.03
		1882.5	23.85	23.03	22.03
		1860.0	23.86	23.09	22.08
	1 RB low	1905.0	23.83	23.12	22.10
		1882.5	23.87	23.07	22.07
		1860.0	23.92	23.13	22.16
	50% RB mid	1905.0	22.96	22.08	21.04
		1882.5	22.96	22.06	21.07
		1860.0	22.96	22.06	21.06
	100% RB	1905.0	22.83	21.95	20.95
		1882.5	22.88	22.02	20.98
		1860.0	22.97	22.03	21.06

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	24.08	23.20	22.59
		819.0	24.03	23.14	22.54
		814.7	24.04	23.15	22.57
	1 RB low	823.3	24.07	23.18	22.61
		819.0	24.07	23.17	22.61
		814.7	24.02	23.15	22.57
	50% RB mid	823.3	24.17	23.31	22.52
		819.0	24.06	23.31	22.49
		814.7	24.12	23.34	22.47
	100% RB	823.3	23.18	22.33	21.41
		819.0	23.13	22.03	21.36
		814.7	23.13	22.03	21.34
3MHz	1 RB high	822.5	24.09	23.18	22.57
		819.0	24.04	23.24	22.55
		815.5	24.11	23.18	22.57
	1 RB low	822.5	24.08	23.20	22.58
		819.0	24.08	23.31	22.53
		815.5	24.06	23.19	22.56
	50% RB mid	822.5	23.12	22.20	21.42
		819.0	23.09	22.18	21.40
		815.5	23.14	22.19	21.42
	100% RB	822.5	23.12	22.15	21.41
		819.0	23.11	22.14	21.37
		815.5	23.14	22.16	21.41
5MHz	1 RB high	821.5	24.21	23.21	22.58
		819.0	24.17	23.47	22.53
		816.5	24.22	23.22	22.60
	1 RB low	821.5	24.14	23.17	22.55
		819.0	24.14	23.46	22.54
		816.5	24.19	23.21	22.56
	50% RB mid	821.5	23.16	22.27	21.42
		819.0	23.13	22.25	21.44
		816.5	23.16	22.27	21.45
	100% RB	821.5	23.14	22.21	21.42
		819.0	23.16	22.22	21.40
		816.5	23.17	22.23	21.43
10MHz	1 RB high	819.0	24.16	23.31	22.56
	1 RB low	819.0	24.08	23.26	22.57
	50% RB mid	819.0	23.12	22.18	21.44



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	100% RB	819.0	23.19	22.17	21.40
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LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	24.01	23.12	22.42
		836.5	24.03	23.09	22.53
		824.7	24.02	23.15	22.53
	1 RB low	848.3	23.92	23.15	22.41
		836.5	24.00	23.09	22.55
		824.7	24.01	23.15	22.54
	50% RB mid	848.3	24.08	23.21	22.38
		836.5	24.07	23.29	22.39
		824.7	24.14	23.35	22.52
	100% RB	848.3	23.10	22.28	21.28
		836.5	23.09	22.01	21.29
		824.7	23.13	22.00	21.37
3MHz	1 RB high	847.5	24.06	23.14	22.42
		836.5	24.01	23.20	22.47
		825.5	24.06	23.17	22.53
	1 RB low	847.5	23.97	23.11	22.44
		836.5	24.05	23.27	22.51
		825.5	24.08	23.19	22.55
	50% RB mid	847.5	23.09	22.14	21.29
		836.5	23.03	22.12	21.36
		825.5	23.12	22.19	21.42
	100% RB	847.5	23.07	22.11	21.25
		836.5	23.08	22.11	21.34
		825.5	23.12	22.14	21.36
5MHz	1 RB high	846.5	24.18	23.17	22.39
		836.5	24.15	23.41	22.47
		826.5	24.28	23.22	22.56
	1 RB low	846.5	24.12	23.15	22.43
		836.5	24.18	23.47	22.58
		826.5	24.19	23.19	22.57
	50% RB mid	846.5	23.10	22.18	21.31
		836.5	23.13	22.24	21.38
		826.5	23.12	22.24	21.43
	100% RB	846.5	23.09	22.16	21.29
		836.5	23.13	22.18	21.34
		826.5	23.14	22.18	21.42
10MHz	1 RB high	844.0	24.08	23.13	22.40
		836.5	24.08	23.21	22.46
		829.0	24.12	23.16	22.53

	1 RB low	844.0	24.05	23.06	22.43
		836.5	24.14	23.29	22.57
		829.0	24.09	23.12	22.56
	50% RB mid	844.0	23.14	22.16	21.36
		836.5	23.09	22.14	21.40
		829.0	23.12	22.18	21.42
	100% RB	844.0	23.15	22.15	21.31
		836.5	23.13	22.16	21.38
		829.0	23.20	22.21	21.41
15MHz	1 RB high	841.5	23.95	23.43	22.39
		836.5	24.02	23.16	22.41
		831.5	23.97	23.39	22.38
	1 RB low	841.5	24.02	23.50	22.53
		836.5	24.01	23.20	22.48
		831.5	23.99	23.47	22.57
	50% RB mid	841.5	23.09	22.16	21.35
		836.5	23.09	22.14	21.39
		831.5	23.09	22.16	21.42
	100% RB	841.5	23.07	22.10	21.28
		836.5	23.09	22.09	21.34
		831.5	23.18	22.17	21.42

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.49	25.53	24.32
		2593.0	26.45	25.62	24.39
		2498.5	26.62	25.79	24.58
	1 RB low	2687.5	26.47	25.53	24.35
		2593.0	26.54	25.68	24.47
		2498.5	26.67	25.79	24.58
	50% RB mid	2687.5	25.40	24.41	23.47
		2593.0	25.45	24.45	23.47
		2498.5	25.57	24.56	23.61
	100% RB	2687.5	25.40	24.46	23.51
		2593.0	25.43	24.47	23.50
		2498.5	25.59	24.63	23.61
10MHz	1 RB high	2685.0	26.45	25.52	24.30
		2593.0	26.40	25.60	24.31
		2501.0	26.56	25.75	24.49
	1 RB low	2685.0	26.44	25.54	24.34
		2593.0	26.55	25.75	24.47
		2501.0	26.63	25.79	24.53
	50% RB mid	2685.0	25.44	24.45	23.51
		2593.0	25.48	24.49	23.55
		2501.0	25.56	24.59	23.65
	100% RB	2685.0	25.45	24.48	23.44
		2593.0	25.50	24.52	23.47
		2501.0	25.58	24.60	23.57
15MHz	1 RB high	2682.5	26.36	25.52	24.25
		2593.0	26.33	25.53	24.26
		2503.5	26.43	25.62	24.36
	1 RB low	2682.5	26.40	25.57	24.33
		2593.0	26.51	25.72	24.47
		2503.5	26.57	25.74	24.50
	50% RB mid	2682.5	25.40	24.40	23.42
		2593.0	25.43	24.44	23.45
		2503.5	25.48	24.50	23.49
	100% RB	2682.5	25.39	24.42	23.42
		2593.0	25.47	24.47	23.48
		2503.5	25.50	24.55	23.50
20MHz	1 RB high	2680.0	26.32	25.46	24.23
		2593.0	26.29	25.47	24.20
		2506.0	26.37	25.56	24.28



	1 RB low	2680.0	26.38	25.52	24.27
		2593.0	26.50	25.69	24.43
		2506.0	26.55	25.73	24.49
	50% RB mid	2680.0	25.45	24.47	23.42
		2593.0	25.50	24.49	23.48
		2506.0	25.52	24.54	23.52
	100% RB	2680.0	25.41	24.43	23.42
		2593.0	25.44	24.47	23.47
		2506.0	25.53	24.51	23.46

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.80	23.04	22.12
		1745.0	23.83	23.23	22.09
		1710.7	23.82	23.10	22.06
	1 RB low	1779.3	23.81	23.00	22.07
		1745.0	23.82	23.21	22.12
		1710.7	23.79	23.10	22.10
	50% RB mid	1779.3	23.84	22.86	22.03
		1745.0	23.80	22.92	22.01
		1710.7	23.87	23.00	22.01
	100% RB	1779.3	22.82	21.99	20.90
		1745.0	22.95	21.94	20.90
		1710.7	22.97	22.05	20.91
3MHz	1 RB high	1778.5	23.79	23.02	22.11
		1745.0	23.77	23.09	22.10
		1711.5	23.82	23.19	22.11
	1 RB low	1778.5	23.76	23.08	22.03
		1745.0	23.84	23.11	22.10
		1711.5	23.78	23.18	22.08
	50% RB mid	1778.5	22.79	21.95	20.97
		1745.0	22.91	22.00	20.91
		1711.5	22.94	22.01	20.91
	100% RB	1778.5	22.81	21.98	20.93
		1745.0	22.91	21.92	20.92
		1711.5	22.92	21.96	20.92
5MHz	1 RB high	1777.5	23.83	23.00	21.99
		1745.0	23.84	23.16	22.04
		1712.5	23.90	23.26	22.18
	1 RB low	1777.5	23.81	23.07	22.01
		1745.0	23.86	23.18	22.08
		1712.5	23.85	23.18	22.03
	50% RB mid	1777.5	22.77	21.89	20.93
		1745.0	22.94	21.94	20.94
		1712.5	22.95	21.90	20.97
	100% RB	1777.5	22.82	21.96	20.89
		1745.0	22.95	21.95	20.91
		1712.5	22.94	21.96	20.93
10MHz	1 RB high	1775.0	23.80	23.07	22.02
		1745.0	23.80	23.08	22.06
		1715.0	23.90	23.29	22.08

	1 RB low	1775.0	23.81	23.10	21.97
		1745.0	23.80	23.14	22.12
		1715.0	23.85	23.22	22.07
	50% RB mid	1775.0	22.80	21.93	20.89
		1745.0	22.91	21.96	20.93
		1715.0	22.97	21.97	20.98
	100% RB	1775.0	22.80	21.92	20.91
		1745.0	22.93	21.90	20.90
		1715.0	22.98	21.98	20.90
15MHz	1 RB high	1772.5	23.78	22.95	22.05
		1745.0	23.72	23.03	21.90
		1717.5	23.80	23.28	22.00
	1 RB low	1772.5	23.72	22.96	22.00
		1745.0	23.79	23.22	22.09
		1717.5	23.77	23.14	22.03
	50% RB mid	1772.5	22.75	21.91	20.91
		1745.0	22.94	21.92	20.90
		1717.5	22.94	21.94	20.92
	100% RB	1772.5	22.78	21.86	20.87
		1745.0	22.95	21.91	20.84
		1717.5	22.95	21.91	20.90
20MHz	1 RB high	1770.0	23.73	22.96	21.90
		1745.0	23.75	22.91	22.04
		1720.0	23.79	23.07	22.05
	1 RB low	1770.0	23.73	23.01	21.94
		1745.0	23.74	23.05	21.98
		1720.0	23.77	23.05	21.92
	50% RB mid	1770.0	22.83	21.94	20.93
		1745.0	22.98	21.93	20.92
		1720.0	23.04	21.95	20.93
	100% RB	1770.0	22.82	21.94	20.92
		1745.0	22.93	21.86	20.86
		1720.0	22.99	21.94	20.93

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	24.46	23.69	22.65
		680.5	24.44	23.52	22.45
		665.5	24.44	23.66	22.56
	1 RB low	695.5	24.54	23.66	22.58
		680.5	24.51	23.74	22.56
		665.5	24.53	23.66	22.55
	50% RB mid	695.5	23.45	22.43	21.45
		680.5	23.46	22.45	21.45
		665.5	23.44	22.38	21.37
	100% RB	695.5	23.47	22.49	21.42
		680.5	23.44	22.42	21.36
		665.5	23.40	22.42	21.37
10MHz	1 RB high	693.0	23.46	23.68	22.53
		680.5	24.47	23.68	22.51
		668.0	24.48	23.66	22.46
	1 RB low	693.0	23.48	23.61	22.39
		680.5	24.55	23.69	22.51
		668.0	24.65	23.63	22.58
	50% RB mid	693.0	23.48	22.47	21.46
		680.5	23.46	22.41	21.40
		668.0	23.41	22.42	21.40
	100% RB	693.0	23.48	22.42	21.39
		680.5	23.50	22.41	21.41
		668.0	23.45	22.39	21.35
15MHz	1 RB high	690.5	24.53	23.69	22.59
		680.5	24.43	23.60	22.47
		670.5	24.48	23.61	22.50
	1 RB low	690.5	24.47	23.75	22.52
		680.5	24.55	23.71	22.62
		670.5	24.55	23.71	22.59
	50% RB mid	690.5	23.48	22.48	21.44
		680.5	23.51	22.47	21.48
		670.5	23.50	22.42	21.45
	100% RB	690.5	23.52	22.49	21.40
		680.5	23.52	22.46	21.42
		670.5	23.45	22.40	21.40
20MHz	1 RB high	688.0	24.26	23.34	22.35
		680.5	24.26	23.48	22.27
		673.0	24.26	23.46	22.45



	1 RB low	688.0	24.31	23.54	22.43
		680.5	24.30	23.42	22.41
		673.0	24.29	23.54	22.34
	50% RB mid	688.0	23.38	22.37	21.31
		680.5	23.39	22.37	21.37
		673.0	23.36	22.39	21.31
	100% RB	688.0	23.37	22.32	21.31
		680.5	23.33	22.32	21.27
		673.0	23.34	22.31	21.30

A.1.3.3 Measurement result

LTE Band 2-EIRP

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

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-0.6)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	23.47	22.69	21.78	22.87	22.09	21.18
		1880.0	23.58	22.82	21.82	22.98	22.22	21.22
		1850.7	23.59	22.85	21.89	22.99	22.25	21.29
	1 RB low	1909.3	23.53	22.80	21.87	22.93	22.20	21.27
		1880.0	23.55	22.76	21.93	22.95	22.16	21.33
		1850.7	23.58	22.83	21.83	22.98	22.23	21.23
	50% RB mid	1909.3	23.54	22.61	21.83	22.94	22.01	21.23
		1880.0	23.55	22.59	21.78	22.95	21.99	21.18
		1850.7	23.61	22.61	21.84	23.01	22.01	21.24
	100% RB	1909.3	22.54	21.78	20.64	21.94	21.18	20.04
		1880.0	22.57	21.73	20.61	21.97	21.13	20.01
		1850.7	22.62	21.85	20.64	22.02	21.25	20.04
3MHz	1 RB high	1908.5	23.48	22.69	21.80	22.88	22.09	21.20
		1880.0	23.55	22.75	21.89	22.95	22.15	21.29
		1851.5	23.62	22.92	21.86	23.02	22.32	21.26
	1 RB low	1908.5	23.50	22.82	21.84	22.90	22.22	21.24
		1880.0	23.57	22.78	21.86	22.97	22.18	21.26
		1851.5	23.60	22.79	21.84	23.00	22.19	21.24
	50% RB mid	1908.5	22.47	21.75	20.74	21.87	21.15	20.14
		1880.0	22.54	21.72	20.67	21.94	21.12	20.07
		1851.5	22.58	21.78	20.72	21.98	21.18	20.12
	100% RB	1908.5	22.53	21.76	20.68	21.93	21.16	20.08
		1880.0	22.50	21.68	20.67	21.9	21.08	20.07
		1851.5	22.57	21.75	20.74	21.97	21.15	20.14
5MHz	1 RB high	1907.5	23.52	22.77	21.78	22.92	22.17	21.18
		1880.0	23.55	22.78	21.82	22.95	22.18	21.22
		1852.5	23.42	22.84	21.85	22.82	22.24	21.25
	1 RB low	1907.5	23.51	22.70	21.77	22.91	22.10	21.17
		1880.0	23.58	22.83	21.89	22.98	22.23	21.29
		1852.5	23.54	22.71	21.85	22.94	22.11	21.25
	50% RB mid	1907.5	22.48	21.66	20.72	21.88	21.06	20.12
		1880.0	22.49	21.59	20.64	21.89	20.99	20.04
		1852.5	22.53	21.64	20.67	21.93	21.04	20.07
	100% RB	1907.5	22.51	21.73	20.68	21.91	21.13	20.08
		1880.0	22.54	21.66	20.67	21.94	21.06	20.07
		1852.5	22.57	21.70	20.69	21.97	21.10	20.09

10MHz	1 RB high	1905.0	23.42	22.74	21.83	22.82	22.14	21.23
		1880.0	23.53	22.70	21.81	22.93	22.10	21.21
		1855.0	23.53	22.72	21.75	22.93	22.12	21.15
	1 RB low	1905.0	23.46	22.67	21.79	22.86	22.07	21.19
		1880.0	23.53	22.68	21.80	22.93	22.08	21.20
		1855.0	23.57	22.77	21.84	22.97	22.17	21.24
	50% RB mid	1905.0	22.51	21.70	20.68	21.91	21.10	20.08
		1880.0	22.47	21.65	20.68	21.87	21.05	20.08
		1855.0	22.56	21.72	20.74	21.96	21.12	20.14
	100% RB	1905.0	22.47	21.67	20.65	21.87	21.07	20.05
		1880.0	22.49	21.61	20.60	21.89	21.01	20.00
		1855.0	22.58	21.67	20.68	21.98	21.07	20.08
15MHz	1 RB high	1902.5	23.44	22.62	21.82	22.84	22.02	21.22
		1880.0	23.44	22.66	21.71	22.84	22.06	21.11
		1857.5	23.45	22.76	21.68	22.85	22.16	21.08
	1 RB low	1902.5	23.45	22.62	21.80	22.85	22.02	21.20
		1880.0	23.42	22.58	21.70	22.82	21.98	21.10
		1857.5	23.53	22.72	21.83	22.93	22.12	21.23
	50% RB mid	1902.5	22.48	21.61	20.61	21.88	21.01	20.01
		1880.0	22.50	21.63	20.62	21.90	21.03	20.02
		1857.5	22.51	21.64	20.67	21.91	21.04	20.07
	100% RB	1902.5	22.50	21.58	20.57	21.90	20.98	19.97
		1880.0	22.49	21.62	20.57	21.89	21.02	19.97
		1857.5	22.55	21.67	20.63	21.95	21.07	20.03
20MHz	1 RB high	1900.0	23.47	22.67	21.68	22.87	22.07	21.08
		1880.0	23.45	22.72	21.70	22.85	22.12	21.10
		1860.0	23.50	22.60	21.66	22.90	22.00	21.06
	1 RB low	1900.0	23.46	22.71	21.68	22.86	22.11	21.08
		1880.0	23.50	22.77	21.66	22.90	22.17	21.06
		1860.0	23.53	22.73	21.76	22.93	22.13	21.16
	50% RB mid	1900.0	22.57	21.66	20.68	21.97	21.06	20.08
		1880.0	22.52	21.64	20.64	21.92	21.04	20.04
		1860.0	22.58	21.67	20.65	21.98	21.07	20.05
	100% RB	1900.0	22.49	21.61	20.59	21.89	21.01	19.99
		1880.0	22.52	21.64	20.61	21.92	21.04	20.01
		1860.0	22.57	21.63	20.62	21.97	21.03	20.02

LTE Band 4- EIRP
Limits: ≤30dBm (1W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-1.5)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.39	22.74	21.64	21.89	21.24	20.14
		1732.5	23.29	22.69	21.61	21.79	21.19	20.11
		1710.7	23.44	22.78	21.64	21.94	21.28	20.14
	1 RB low	1754.3	23.46	22.60	21.59	21.96	21.10	20.09
		1732.5	23.30	22.72	21.68	21.80	21.22	20.18
		1710.7	23.41	22.77	21.70	21.91	21.27	20.20
	50% RB mid	1754.3	23.29	22.46	21.63	21.79	20.96	20.13
		1732.5	23.36	22.51	21.55	21.86	21.01	20.05
		1710.7	23.40	22.56	21.65	21.90	21.06	20.15
	100% RB	1754.3	22.45	21.53	20.39	20.95	20.03	18.89
		1732.5	22.45	21.50	20.48	20.95	20.00	18.98
		1710.7	22.54	21.60	20.43	21.04	20.10	18.93
3MHz	1 RB high	1753.5	23.47	22.66	21.61	21.97	21.16	20.11
		1732.5	23.31	22.76	21.61	21.81	21.26	20.11
		1711.5	23.42	22.67	21.61	21.92	21.17	20.11
	1 RB low	1753.5	23.50	22.62	21.56	22.00	21.12	20.06
		1732.5	23.32	22.76	21.59	21.82	21.26	20.09
		1711.5	23.42	22.70	21.67	21.92	21.20	20.17
	50% RB mid	1753.5	22.46	21.56	20.48	20.96	20.06	18.98
		1732.5	22.44	21.51	20.46	20.94	20.01	18.96
		1711.5	22.55	21.63	20.56	21.05	20.13	19.06
	100% RB	1753.5	22.48	21.51	20.46	20.98	20.01	18.96
		1732.5	22.47	21.50	20.44	20.97	20.00	18.94
		1711.5	22.56	21.59	20.51	21.06	20.09	19.01
5MHz	1 RB high	1752.5	23.52	22.80	21.59	22.02	21.30	20.09
		1732.5	23.37	22.78	21.69	21.87	21.28	20.19
		1712.5	23.45	22.79	21.72	21.95	21.29	20.22
	1 RB low	1752.5	23.51	22.70	21.57	22.01	21.20	20.07
		1732.5	23.42	22.80	21.68	21.92	21.30	20.18
		1712.5	23.45	22.85	21.69	21.95	21.35	20.19
	50% RB mid	1752.5	22.50	21.49	20.54	21.00	19.99	19.04
		1732.5	22.49	21.50	20.50	20.99	20.00	19.00
		1712.5	22.54	21.55	20.55	21.04	20.05	19.05
	100% RB	1752.5	22.55	21.51	20.49	21.05	20.01	18.99
		1732.5	22.51	21.49	20.48	21.01	19.99	18.98
		1712.5	22.50	21.55	20.54	21.00	20.05	19.04
10MHz	1 RB high	1750.0	23.53	22.73	21.60	22.03	21.23	20.10
		1732.5	23.32	22.65	21.59	21.82	21.15	20.09



	1 RB low	1715.0	23.40	22.67	21.68	21.90	21.17	20.18	
		1750.0	23.45	22.71	21.53	21.95	21.21	20.03	
		1732.5	23.37	22.78	21.68	21.87	21.28	20.18	
	50% RB mid	1715.0	23.45	22.74	21.64	21.95	21.24	20.14	
		1750.0	22.47	21.49	20.45	20.97	19.99	18.95	
		1732.5	22.43	21.52	20.47	20.93	20.02	18.97	
	100% RB	1715.0	22.46	21.53	20.51	20.96	20.03	19.01	
		1750.0	22.47	21.44	20.39	20.97	19.94	18.89	
		1732.5	22.48	21.48	20.47	20.98	19.98	18.97	
	15MHz	1 RB high	1715.0	22.45	21.49	20.51	20.95	19.99	19.01
			1750.0	22.47	21.44	20.39	20.97	19.94	18.89
			1732.5	22.48	21.48	20.47	20.98	19.98	18.97
1 RB low		1747.5	23.23	22.65	21.57	21.73	21.15	20.07	
		1732.5	23.24	22.57	21.53	21.74	21.07	20.03	
		1717.5	23.33	22.64	21.60	21.83	21.14	20.10	
50% RB mid		1747.5	23.29	22.73	21.58	21.79	21.23	20.08	
		1732.5	23.31	22.69	21.57	21.81	21.19	20.07	
		1717.5	23.40	22.64	21.60	21.90	21.14	20.10	
100% RB		1747.5	22.41	21.38	20.37	20.91	19.88	18.87	
		1732.5	22.45	21.53	20.45	20.95	20.03	18.95	
		1717.5	22.51	21.54	20.51	21.01	20.04	19.01	
20MHz	1 RB high	1747.5	22.43	21.44	20.43	20.93	19.94	18.93	
		1732.5	22.44	21.47	20.45	20.94	19.97	18.95	
		1717.5	22.49	21.49	20.45	20.99	19.99	18.95	
	1 RB low	1745.0	23.25	22.61	21.49	21.75	21.11	19.99	
		1732.5	23.21	22.56	21.43	21.71	21.06	19.93	
		1720.0	23.30	22.63	21.50	21.80	21.13	20.00	
	50% RB mid	1745.0	23.28	22.49	21.54	21.78	20.99	20.04	
		1732.5	23.32	22.72	21.45	21.82	21.22	19.95	
		1720.0	23.36	22.58	21.55	21.86	21.08	20.05	
	100% RB	1745.0	22.42	21.40	20.48	20.92	19.90	18.98	
		1732.5	22.51	21.44	20.39	21.01	19.94	18.89	
		1720.0	22.49	21.51	20.43	20.99	20.01	18.93	
		1745.0	22.37	21.37	20.42	20.87	19.87	18.92	
		1732.5	22.44	21.45	20.39	20.94	19.95	18.89	
		1720.0	22.52	21.50	20.46	21.02	20.00	18.96	

LTE Band 5-ERP
Limits: ≤38.45dBm (7W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-2.13)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	24.00	23.25	22.15	19.72	18.97	17.87
		836.5	24.05	23.36	22.22	19.77	19.08	17.94
		824.7	24.13	23.38	22.21	19.85	19.10	17.93
	1 RB low	848.3	23.99	23.14	22.22	19.71	18.86	17.94
		836.5	24.08	23.31	22.21	19.80	19.03	17.93
		824.7	24.10	23.21	22.20	19.82	18.93	17.92
	50% RB mid	848.3	24.01	23.01	22.08	19.73	18.73	17.80
		836.5	24.10	23.09	22.10	19.82	18.81	17.82
		824.7	24.10	23.15	22.14	19.82	18.87	17.86
	100% RB	848.3	23.02	22.11	20.95	18.74	17.83	16.67
		836.5	23.09	22.15	20.99	18.81	17.87	16.71
		824.7	23.10	22.08	20.99	18.82	17.80	16.71
3MHz	1 RB high	847.5	23.98	23.24	22.13	19.70	18.96	17.85
		836.5	24.01	23.38	22.15	19.73	19.10	17.87
		825.5	24.12	23.23	22.24	19.84	18.95	17.96
	1 RB low	847.5	24.02	23.21	22.12	19.74	18.93	17.84
		836.5	24.07	23.39	22.25	19.79	19.11	17.97
		825.5	24.11	23.27	22.25	19.83	18.99	17.97
	50% RB mid	847.5	23.00	22.10	21.02	18.72	17.82	16.74
		836.5	23.07	22.15	21.08	18.79	17.87	16.80
		825.5	23.13	22.14	21.13	18.85	17.86	16.85
	100% RB	847.5	23.00	22.06	21.00	18.72	17.78	16.72
		836.5	23.05	22.08	21.04	18.77	17.80	16.76
		825.5	23.06	22.06	21.06	18.78	17.78	16.78
5MHz	1 RB high	846.5	24.08	23.26	22.09	19.80	18.98	17.81
		836.5	24.06	23.27	22.20	19.78	18.99	17.92
		826.5	24.17	23.34	22.28	19.89	19.06	18.00
	1 RB low	846.5	24.07	23.20	22.15	19.79	18.92	17.87
		836.5	24.15	23.37	22.29	19.87	19.09	18.01
		826.5	24.13	23.25	22.23	19.85	18.97	17.95
	50% RB mid	846.5	23.02	22.02	21.00	18.74	17.74	16.72
		836.5	23.06	22.09	21.06	18.78	17.81	16.78
		826.5	23.08	22.11	21.12	18.80	17.83	16.84
	100% RB	846.5	23.04	22.03	21.00	18.76	17.75	16.72
		836.5	23.09	22.06	21.02	18.81	17.78	16.74
		826.5	23.13	22.12	21.10	18.85	17.84	16.82
10MHz	1 RB high	844.0	23.98	23.17	22.07	19.70	18.89	17.79
		836.5	24.05	23.15	22.07	19.77	18.87	17.79



		829.0	24.06	23.31	22.15	19.78	19.03	17.87
1 RB low		844.0	24.07	23.27	22.13	19.79	18.99	17.85
		836.5	24.15	23.45	22.29	19.87	19.17	18.01
		829.0	24.11	23.30	22.17	19.83	19.02	17.89
50% RB mid		844.0	23.02	22.04	21.03	18.74	17.76	16.75
		836.5	23.03	22.01	21.05	18.75	17.73	16.77
		829.0	23.11	22.08	21.09	18.83	17.80	16.81
100% RB		844.0	23.04	22.05	21.02	18.76	17.77	16.74
		836.5	23.02	22.02	21.02	18.74	17.74	16.74
		829.0	23.14	22.14	21.10	18.86	17.86	16.82

LTE Band 7- EIRP
Limits: ≤33 dBm (2W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-0.2)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	23.13	22.58	21.46	22.93	22.38	21.26
		2535.0	23.15	22.30	21.25	22.95	22.10	21.05
		2502.5	23.40	22.58	21.47	23.20	22.38	21.27
	1 RB low	2567.5	23.14	22.60	21.52	22.94	22.40	21.32
		2535.0	23.14	22.53	21.40	22.94	22.33	21.20
		2502.5	23.39	22.72	21.60	23.19	22.52	21.40
	50% RB mid	2567.5	22.11	21.26	20.45	21.91	21.06	20.25
		2535.0	22.13	21.08	20.24	21.93	20.88	20.04
		2502.5	22.37	21.37	20.51	22.17	21.17	20.31
	100% RB	2567.5	22.10	21.30	20.43	21.90	21.10	20.23
		2535.0	22.14	21.11	20.25	21.94	20.91	20.05
		2502.5	22.38	21.37	20.51	22.18	21.17	20.31
10MHz	1 RB high	2565.0	23.15	22.65	21.40	22.95	22.45	21.20
		2535.0	23.11	22.43	21.32	22.91	22.23	21.12
		2505.0	23.30	22.59	21.45	23.10	22.39	21.25
	1 RB low	2565.0	23.16	22.53	21.38	22.96	22.33	21.18
		2535.0	23.12	22.42	21.24	22.92	22.22	21.04
		2505.0	23.41	22.68	21.48	23.21	22.48	21.28
	50% RB mid	2565.0	22.17	21.37	20.49	21.97	21.17	20.29
		2535.0	22.15	21.13	20.24	21.95	20.93	20.04
		2505.0	22.36	21.36	20.45	22.16	21.16	20.25
	100% RB	2565.0	22.17	21.34	20.44	21.97	21.14	20.24
		2535.0	22.19	21.14	20.23	21.99	20.94	20.03
		2505.0	22.40	21.35	20.43	22.20	21.15	20.23
15MHz	1 RB high	2562.5	23.16	22.50	21.42	22.96	22.30	21.22
		2535.0	23.07	22.44	21.15	22.87	22.24	20.95
		2507.5	23.15	22.38	21.32	22.95	22.18	21.12
	1 RB low	2562.5	23.13	22.50	21.37	22.93	22.30	21.17
		2535.0	23.09	22.41	21.24	22.89	22.21	21.04
		2507.5	23.34	22.55	21.38	23.14	22.35	21.18
	50% RB mid	2562.5	22.10	21.31	20.45	21.90	21.11	20.25
		2535.0	22.10	21.11	20.25	21.90	20.91	20.05
		2507.5	22.26	21.28	20.42	22.06	21.08	20.22
	100% RB	2562.5	22.14	21.26	20.36	21.94	21.06	20.16
		2535.0	22.14	21.10	20.21	21.94	20.90	20.01
		2507.5	22.27	21.32	20.38	22.07	21.12	20.18
20MHz	1 RB high	2560.0	23.27	22.42	21.34	23.07	22.22	21.14
		2535.0	23.06	22.31	21.21	22.86	22.11	21.01



		2510.0	23.09	22.30	21.31	22.89	22.10	21.11
1 RB low		2560.0	23.12	22.43	21.25	22.92	22.23	21.05
		2535.0	23.06	22.36	21.23	22.86	22.16	21.03
		2510.0	23.32	22.62	21.33	23.12	22.42	21.13
50% RB mid		2560.0	22.27	21.27	20.38	22.07	21.07	20.18
		2535.0	22.15	21.15	20.31	21.95	20.95	20.11
		2510.0	22.32	21.28	20.43	22.12	21.08	20.23
100% RB		2560.0	22.26	21.24	20.37	22.06	21.04	20.17
		2535.0	22.13	21.06	20.24	21.93	20.86	20.04
		2510.0	22.28	21.27	20.38	22.08	21.07	20.18

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

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-4.0)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	24.45	23.77	22.70	18.30	17.62	16.55
		707.5	24.51	23.65	22.63	18.36	17.50	16.48
		699.7	24.54	23.72	22.60	18.39	17.57	16.45
	1 RB low	715.3	24.49	23.77	22.67	18.34	17.62	16.52
		707.5	24.52	23.67	22.59	18.37	17.52	16.44
		699.7	24.52	23.75	22.60	18.37	17.60	16.45
	50% RB mid	715.3	24.48	23.57	22.67	18.33	17.42	16.52
		707.5	24.49	23.43	22.54	18.34	17.28	16.39
		699.7	24.52	23.52	22.58	18.37	17.37	16.43
	100% RB	715.3	23.46	22.60	21.50	17.31	16.45	15.35
		707.5	23.46	22.55	21.43	17.31	16.40	15.28
		699.7	23.53	22.62	21.48	17.38	16.47	15.33
3MHz	1 RB high	714.5	24.46	23.68	22.63	18.31	17.53	16.48
		707.5	24.46	23.71	22.57	18.31	17.56	16.42
		700.5	24.46	23.69	22.61	18.31	17.54	16.46
	1 RB low	714.5	24.44	23.75	22.59	18.29	17.60	16.44
		707.5	24.46	23.66	22.60	18.31	17.51	16.45
		700.5	24.53	23.69	22.64	18.38	17.54	16.49
	50% RB mid	714.5	23.46	22.55	21.50	17.31	16.40	15.35
		707.5	23.47	22.52	21.50	17.32	16.37	15.35
		700.5	23.46	22.53	21.48	17.31	16.38	15.33
	100% RB	714.5	23.43	22.49	21.49	17.28	16.34	15.34
		707.5	23.43	22.50	21.42	17.28	16.35	15.27
		700.5	23.47	22.50	21.50	17.32	16.35	15.35
5MHz	1 RB high	713.5	24.51	23.79	22.64	18.36	17.64	16.49
		707.5	24.52	23.66	22.61	18.37	17.51	16.46
		701.5	24.53	23.78	22.60	18.38	17.63	16.45
	1 RB low	713.5	24.53	23.85	22.63	18.38	17.70	16.48
		707.5	24.53	23.67	22.63	18.38	17.52	16.48
		701.5	24.57	23.81	22.61	18.42	17.66	16.46
	50% RB mid	713.5	23.46	22.49	21.54	17.31	16.34	15.39
		707.5	23.46	22.46	21.48	17.31	16.31	15.33
		701.5	23.50	22.45	21.43	17.35	16.30	15.28
	100% RB	713.5	23.47	22.49	21.47	17.32	16.34	15.32
		707.5	23.46	22.50	21.45	17.31	16.35	15.30
		701.5	23.49	22.43	21.45	17.34	16.28	15.30
10MHz	1 RB high	711.0	24.55	23.70	22.67	18.40	17.55	16.52
		707.5	24.55	23.72	22.59	18.40	17.57	16.44



		704.0	24.49	23.66	22.50	18.34	17.51	16.35
1 RB low		711.0	24.52	23.65	22.55	18.37	17.50	16.40
		707.5	24.57	23.70	22.63	18.42	17.55	16.48
		704.0	24.62	23.82	22.68	18.47	17.67	16.53
50% RB mid		711.0	23.59	22.52	21.55	17.44	16.37	15.40
		707.5	23.47	22.48	21.51	17.32	16.33	15.36
		704.0	23.48	22.52	21.51	17.33	16.37	15.36
100% RB		711.0	23.60	22.55	21.58	17.45	16.40	15.43
		707.5	23.48	22.46	21.44	17.33	16.31	15.29
		704.0	23.49	22.45	21.41	17.34	16.30	15.26



LTE Band 13- ERP

Limits: ≤34.77 dBm (3W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-4.0)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	22.84	22.21	20.94	16.69	16.06	14.79
		782.0	22.82	22.14	20.94	16.67	15.99	14.79
		779.5	22.86	22.15	20.97	16.71	16.00	14.82
	1 RB low	784.5	22.84	22.15	20.93	16.69	16.00	14.78
		782.0	22.87	22.11	20.90	16.72	15.96	14.75
		779.5	22.87	22.07	20.92	16.72	15.92	14.77
	50% RB mid	784.5	21.84	20.82	19.83	15.69	14.67	13.68
		782.0	21.80	20.78	19.84	15.65	14.63	13.69
		779.5	21.77	20.76	19.78	15.62	14.61	13.63
	100% RB	784.5	21.82	20.82	19.78	15.67	14.67	13.63
		782.0	21.84	20.83	19.78	15.69	14.68	13.63
		779.5	21.75	20.74	19.73	15.60	14.59	13.58
10MHz	1 RB high	782.0	22.80	22.04	20.90	16.65	15.89	14.75
	1 RB low	782.0	22.86	22.11	20.96	16.71	15.96	14.81
	50%RBmid	782.0	21.79	20.84	19.81	15.64	14.69	13.66
	100% RB	782.0	21.79	20.76	19.76	15.64	14.61	13.61

LTE Band 25- EIRP
Limits: ≤33dBm (2W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-0.6)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	23.84	22.86	22.01	23.24	22.26	21.41
		1882.5	23.97	23.15	22.19	23.37	22.55	21.59
		1850.7	24.00	23.16	22.21	23.40	22.56	21.61
	1 RB low	1914.3	23.87	22.94	22.11	23.27	22.34	21.51
		1882.5	23.97	23.09	22.24	23.37	22.49	21.64
		1850.7	23.98	23.09	22.14	23.38	22.49	21.54
	50% RB mid	1914.3	23.92	22.92	22.04	23.32	22.32	21.44
		1882.5	23.94	22.99	22.12	23.34	22.39	21.52
		1850.7	23.97	22.98	22.11	23.37	22.38	21.51
	100% RB	1914.3	22.93	22.11	20.96	22.33	21.51	20.36
		1882.5	22.98	22.11	20.91	22.38	21.51	20.31
		1850.7	22.97	22.17	21.05	22.37	21.57	20.45
3MHz	1 RB high	1913.5	23.90	22.92	22.15	23.30	22.32	21.55
		1882.5	23.96	23.18	22.28	23.36	22.58	21.68
		1851.5	24.02	23.11	22.26	23.42	22.51	21.66
	1 RB low	1913.5	23.91	23.07	22.09	23.31	22.47	21.49
		1882.5	23.99	23.18	22.23	23.39	22.58	21.63
		1851.5	24.00	23.22	22.14	23.40	22.62	21.54
	50% RB mid	1913.5	22.97	22.09	21.05	22.37	21.49	20.45
		1882.5	22.96	22.08	21.06	22.36	21.48	20.46
		1851.5	22.94	22.16	21.07	22.34	21.56	20.47
	100% RB	1913.5	22.91	22.08	21.01	22.31	21.48	20.41
		1882.5	22.92	22.06	21.01	22.32	21.46	20.41
		1851.5	22.96	22.07	21.05	22.36	21.47	20.45
5MHz	1 RB high	1912.5	23.98	23.11	22.16	23.38	22.51	21.56
		1882.5	24.05	23.25	22.18	23.45	22.65	21.58
		1852.5	24.08	23.19	22.19	23.48	22.59	21.59
	1 RB low	1912.5	24.04	23.13	22.18	23.44	22.53	21.58
		1882.5	24.10	23.23	22.23	23.50	22.63	21.63
		1852.5	24.09	23.29	22.20	23.49	22.69	21.60
	50% RB mid	1912.5	23.06	22.10	21.10	22.46	21.50	20.50
		1882.5	23.02	22.13	21.14	22.42	21.53	20.54
		1852.5	23.01	22.15	21.16	22.41	21.55	20.56
	100% RB	1912.5	22.99	22.14	21.06	22.39	21.54	20.46
		1882.5	23.04	22.15	21.11	22.44	21.55	20.51
		1852.5	23.02	22.15	21.11	22.42	21.55	20.51
10MHz	1 RB high	1910.0	24.13	23.17	22.30	23.53	22.57	21.70
		1882.5	24.18	23.28	22.30	23.58	22.68	21.70

	1 RB low	1855.0	24.18	23.25	22.29	23.58	22.65	21.69	
		1910.0	24.23	23.26	22.28	23.63	22.66	21.68	
		1882.5	24.17	23.25	22.28	23.57	22.65	21.68	
		1855.0	24.20	23.31	22.30	23.60	22.71	21.70	
	50% RB mid	1910.0	23.17	22.23	21.15	22.57	21.63	20.55	
		1882.5	23.15	22.20	21.17	22.55	21.60	20.57	
		1855.0	23.16	22.22	21.16	22.56	21.62	20.56	
	100% RB	1910.0	23.14	22.20	21.12	22.54	21.60	20.52	
		1882.5	23.09	22.24	21.13	22.49	21.64	20.53	
		1855.0	23.16	22.22	21.13	22.56	21.62	20.53	
	15MHz	1 RB high	1907.5	23.82	22.92	22.11	23.22	22.32	21.51
			1882.5	23.85	23.09	22.16	23.25	22.49	21.56
1857.5			23.86	23.00	22.15	23.26	22.40	21.55	
1 RB low		1907.5	23.88	23.16	22.21	23.28	22.56	21.61	
		1882.5	23.87	23.13	22.12	23.27	22.53	21.52	
		1857.5	23.94	23.14	22.22	23.34	22.54	21.62	
50% RB mid		1907.5	22.88	22.06	21.05	22.28	21.46	20.45	
		1882.5	22.93	22.04	21.02	22.33	21.44	20.42	
		1857.5	22.95	22.06	21.07	22.35	21.46	20.47	
100% RB		1907.5	22.85	22.02	20.95	22.25	21.42	20.35	
		1882.5	22.89	22.01	21.16	22.29	21.41	20.56	
		1857.5	22.94	22.02	21.05	22.34	21.42	20.45	
20MHz	1 RB high	1905.0	23.85	22.94	22.03	23.25	22.34	21.43	
		1882.5	23.85	23.03	22.03	23.25	22.43	21.43	
		1860.0	23.86	23.09	22.08	23.26	22.49	21.48	
	1 RB low	1905.0	23.83	23.12	22.10	23.23	22.52	21.50	
		1882.5	23.87	23.07	22.07	23.27	22.47	21.47	
		1860.0	23.92	23.13	22.16	23.32	22.53	21.56	
	50% RB mid	1905.0	22.96	22.08	21.04	22.36	21.48	20.44	
		1882.5	22.96	22.06	21.07	22.36	21.46	20.47	
		1860.0	22.96	22.06	21.06	22.36	21.46	20.46	
	100% RB	1905.0	22.83	21.95	20.95	22.23	21.35	20.35	
		1882.5	22.88	22.02	20.98	22.28	21.42	20.38	
		1860.0	22.97	22.03	21.06	22.37	21.43	20.46	

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

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-2.13)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	24.08	23.20	22.59	19.80	18.92	18.31
		819.0	24.03	23.14	22.54	19.75	18.86	18.26
		814.7	24.04	23.15	22.57	19.76	18.87	18.29
	1 RB low	823.3	24.07	23.18	22.61	19.79	18.90	18.33
		819.0	24.07	23.17	22.61	19.79	18.89	18.33
		814.7	24.02	23.15	22.57	19.74	18.87	18.29
	50% RB mid	823.3	24.17	23.31	22.52	19.89	19.03	18.24
		819.0	24.06	23.31	22.49	19.78	19.03	18.21
		814.7	24.12	23.34	22.47	19.84	19.06	18.19
	100% RB	823.3	23.18	22.33	21.41	18.90	18.05	17.13
		819.0	23.13	22.03	21.36	18.85	17.75	17.08
		814.7	23.13	22.03	21.34	18.85	17.75	17.06
3MHz	1 RB high	822.5	24.09	23.18	22.57	19.81	18.90	18.29
		819.0	24.04	23.24	22.55	19.76	18.96	18.27
		815.5	24.11	23.18	22.57	19.83	18.90	18.29
	1 RB low	822.5	24.08	23.20	22.58	19.80	18.92	18.30
		819.0	24.08	23.31	22.53	19.80	19.03	18.25
		815.5	24.06	23.19	22.56	19.78	18.91	18.28
	50% RB mid	822.5	23.12	22.20	21.42	18.84	17.92	17.14
		819.0	23.09	22.18	21.40	18.81	17.90	17.12
		815.5	23.14	22.19	21.42	18.86	17.91	17.14
	100% RB	822.5	23.12	22.15	21.41	18.84	17.87	17.13
		819.0	23.11	22.14	21.37	18.83	17.86	17.09
		815.5	23.14	22.16	21.41	18.86	17.88	17.13
5MHz	1 RB high	821.5	24.21	23.21	22.58	19.93	18.93	18.30
		819.0	24.17	23.47	22.53	19.89	19.19	18.25
		816.5	24.22	23.22	22.60	19.94	18.94	18.32
	1 RB low	821.5	24.14	23.17	22.55	19.86	18.89	18.27
		819.0	24.14	23.46	22.54	19.86	19.18	18.26
		816.5	24.19	23.21	22.56	19.91	18.93	18.28
	50% RB mid	821.5	23.16	22.27	21.42	18.88	17.99	17.14
		819.0	23.13	22.25	21.44	18.85	17.97	17.16
		816.5	23.16	22.27	21.45	18.88	17.99	17.17
	100% RB	821.5	23.14	22.21	21.42	18.86	17.93	17.14
		819.0	23.16	22.22	21.40	18.88	17.94	17.12
		816.5	23.17	22.23	21.43	18.89	17.95	17.15
10MHz	1 RB high	819.0	24.16	23.31	22.56	19.88	19.03	18.28
	1 RB low	819.0	24.08	23.26	22.57	19.80	18.98	18.29



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	50% RB mid	819.0	23.12	22.18	21.44	18.84	17.90	17.16
	100% RB	819.0	23.19	22.17	21.40	18.91	17.89	17.12

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

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-2.13)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	24.01	23.12	22.42	19.73	18.84	18.14
		836.5	24.03	23.09	22.53	19.75	18.81	18.25
		824.7	24.02	23.15	22.53	19.74	18.87	18.25
	1 RB low	848.3	23.92	23.15	22.41	19.64	18.87	18.13
		836.5	24.00	23.09	22.55	19.72	18.81	18.27
		824.7	24.01	23.15	22.54	19.73	18.87	18.26
	50% RB mid	848.3	24.08	23.21	22.38	19.80	18.93	18.10
		836.5	24.07	23.29	22.39	19.79	19.01	18.11
		824.7	24.14	23.35	22.52	19.86	19.07	18.24
	100% RB	848.3	23.10	22.28	21.28	18.82	18.00	17.00
		836.5	23.09	22.01	21.29	18.81	17.73	17.01
		824.7	23.13	22.00	21.37	18.85	17.72	17.09
3MHz	1 RB high	847.5	24.06	23.14	22.42	19.78	18.86	18.14
		836.5	24.01	23.20	22.47	19.73	18.92	18.19
		825.5	24.06	23.17	22.53	19.78	18.89	18.25
	1 RB low	847.5	23.97	23.11	22.44	19.69	18.83	18.16
		836.5	24.05	23.27	22.51	19.77	18.99	18.23
		825.5	24.08	23.19	22.55	19.80	18.91	18.27
	50% RB mid	847.5	23.09	22.14	21.29	18.81	17.86	17.01
		836.5	23.03	22.12	21.36	18.75	17.84	17.08
		825.5	23.12	22.19	21.42	18.84	17.91	17.14
	100% RB	847.5	23.07	22.11	21.25	18.79	17.83	16.97
		836.5	23.08	22.11	21.34	18.80	17.83	17.06
		825.5	23.12	22.14	21.36	18.84	17.86	17.08
5MHz	1 RB high	846.5	24.18	23.17	22.39	19.90	18.89	18.11
		836.5	24.15	23.41	22.47	19.87	19.13	18.19
		826.5	24.28	23.22	22.56	20.00	18.94	18.28
	1 RB low	846.5	24.12	23.15	22.43	19.84	18.87	18.15
		836.5	24.18	23.47	22.58	19.90	19.19	18.30
		826.5	24.19	23.19	22.57	19.91	18.91	18.29
	50% RB mid	846.5	23.10	22.18	21.31	18.82	17.90	17.03
		836.5	23.13	22.24	21.38	18.85	17.96	17.10
		826.5	23.12	22.24	21.43	18.84	17.96	17.15
	100% RB	846.5	23.09	22.16	21.29	18.81	17.88	17.01
		836.5	23.13	22.18	21.34	18.85	17.90	17.06
		826.5	23.14	22.18	21.42	18.86	17.90	17.14
10MHz	1 RB high	844.0	24.08	23.13	22.40	19.80	18.85	18.12
		836.5	24.08	23.21	22.46	19.80	18.93	18.18



	1 RB low	829.0	24.12	23.16	22.53	19.84	18.88	18.25	
		844.0	24.05	23.06	22.43	19.77	18.78	18.15	
		836.5	24.14	23.29	22.57	19.86	19.01	18.29	
		829.0	24.09	23.12	22.56	19.81	18.84	18.28	
	50% RB mid	844.0	23.14	22.16	21.36	18.86	17.88	17.08	
		836.5	23.09	22.14	21.40	18.81	17.86	17.12	
		829.0	23.12	22.18	21.42	18.84	17.90	17.14	
	100% RB	844.0	23.15	22.15	21.31	18.87	17.87	17.03	
		836.5	23.13	22.16	21.38	18.85	17.88	17.10	
		829.0	23.20	22.21	21.41	18.92	17.93	17.13	
	15MHz	1 RB high	841.5	23.95	23.43	22.39	19.67	19.15	18.11
			836.5	24.02	23.16	22.41	19.74	18.88	18.13
831.5			23.97	23.39	22.38	19.69	19.11	18.10	
1 RB low		841.5	24.02	23.50	22.53	19.74	19.22	18.25	
		836.5	24.01	23.20	22.48	19.73	18.92	18.20	
		831.5	23.99	23.47	22.57	19.71	19.19	18.29	
50% RB mid		841.5	23.09	22.16	21.35	18.81	17.88	17.07	
		836.5	23.09	22.14	21.39	18.81	17.86	17.11	
		831.5	23.09	22.16	21.42	18.81	17.88	17.14	
100% RB		841.5	23.07	22.10	21.28	18.79	17.82	17.00	
		836.5	23.09	22.09	21.34	18.81	17.81	17.06	
		831.5	23.18	22.17	21.42	18.90	17.89	17.14	

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

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =0.3)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.49	25.53	24.32	26.79	25.83	24.62
		2593.0	26.45	25.62	24.39	26.75	25.92	24.69
		2498.5	26.62	25.79	24.58	26.92	26.09	24.88
	1 RB low	2687.5	26.47	25.53	24.35	26.77	25.83	24.65
		2593.0	26.54	25.68	24.47	26.84	25.98	24.77
		2498.5	26.67	25.79	24.58	26.97	26.09	24.88
	50% RB mid	2687.5	25.40	24.41	23.47	25.70	24.71	23.77
		2593.0	25.45	24.45	23.47	25.75	24.75	23.77
		2498.5	25.57	24.56	23.61	25.87	24.86	23.91
	100% RB	2687.5	25.40	24.46	23.51	25.70	24.76	23.81
		2593.0	25.43	24.47	23.50	25.73	24.77	23.80
		2498.5	25.59	24.63	23.61	25.89	24.93	23.91
10MHz	1 RB high	2685.0	26.45	25.52	24.30	26.75	25.82	24.60
		2593.0	26.40	25.60	24.31	26.70	25.90	24.61
		2501.0	26.56	25.75	24.49	26.86	26.05	24.79
	1 RB low	2685.0	26.44	25.54	24.34	26.74	25.84	24.64
		2593.0	26.55	25.75	24.47	26.85	26.05	24.77
		2501.0	26.63	25.79	24.53	26.93	26.09	24.83
	50% RB mid	2685.0	25.44	24.45	23.51	25.74	24.75	23.81
		2593.0	25.48	24.49	23.55	25.78	24.79	23.85
		2501.0	25.56	24.59	23.65	25.86	24.89	23.95
	100% RB	2685.0	25.45	24.48	23.44	25.75	24.78	23.74
		2593.0	25.50	24.52	23.47	25.8	24.82	23.77
		2501.0	25.58	24.60	23.57	25.88	24.90	23.87
15MHz	1 RB high	2682.5	26.36	25.52	24.25	26.66	25.82	24.55
		2593.0	26.33	25.53	24.26	26.63	25.83	24.56
		2503.5	26.43	25.62	24.36	26.73	25.92	24.66
	1 RB low	2682.5	26.40	25.57	24.33	26.70	25.87	24.63
		2593.0	26.51	25.72	24.47	26.81	26.02	24.77
		2503.5	26.57	25.74	24.50	26.87	26.04	24.80
	50% RB mid	2682.5	25.40	24.40	23.42	25.70	24.70	23.72
		2593.0	25.43	24.44	23.45	25.73	24.74	23.75
		2503.5	25.48	24.50	23.49	25.78	24.80	23.79
	100% RB	2682.5	25.39	24.42	23.42	25.69	24.72	23.72
		2593.0	25.47	24.47	23.48	25.77	24.77	23.78
		2503.5	25.50	24.55	23.50	25.80	24.85	23.80
20MHz	1 RB high	2680.0	26.32	25.46	24.23	26.62	25.76	24.53
		2593.0	26.29	25.47	24.20	26.59	25.77	24.50



		2506.0	26.37	25.56	24.28	26.67	25.86	24.58
1 RB low		2680.0	26.38	25.52	24.27	26.68	25.82	24.57
		2593.0	26.50	25.69	24.43	26.80	25.99	24.73
		2506.0	26.55	25.73	24.49	26.85	26.03	24.79
50% RB mid		2680.0	25.45	24.47	23.42	25.75	24.77	23.72
		2593.0	25.50	24.49	23.48	25.80	24.79	23.78
		2506.0	25.52	24.54	23.52	25.82	24.84	23.82
100% RB		2680.0	25.41	24.43	23.42	25.71	24.73	23.72
		2593.0	25.44	24.47	23.47	25.74	24.77	23.77
		2506.0	25.53	24.51	23.46	25.83	24.81	23.76

LTE Band 66- EIRP
Limits: ≤30dBm (1W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-1.4)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.80	23.04	22.12	22.40	21.64	20.72
		1745.0	23.83	23.23	22.09	22.43	21.83	20.69
		1710.7	23.82	23.10	22.06	22.42	21.70	20.66
	1 RB low	1779.3	23.81	23.00	22.07	22.41	21.60	20.67
		1745.0	23.82	23.21	22.12	22.42	21.81	20.72
		1710.7	23.79	23.10	22.10	22.39	21.70	20.70
	50% RB mid	1779.3	23.84	22.86	22.03	22.44	21.46	20.63
		1745.0	23.80	22.92	22.01	22.40	21.52	20.61
		1710.7	23.87	23.00	22.01	22.47	21.60	20.61
	100% RB	1779.3	22.82	21.99	20.90	21.42	20.59	19.50
		1745.0	22.95	21.94	20.90	21.55	20.54	19.50
		1710.7	22.97	22.05	20.91	21.57	20.65	19.51
3MHz	1 RB high	1778.5	23.79	23.02	22.11	22.39	21.62	20.71
		1745.0	23.77	23.09	22.10	22.37	21.69	20.70
		1711.5	23.82	23.19	22.11	22.42	21.79	20.71
	1 RB low	1778.5	23.76	23.08	22.03	22.36	21.68	20.63
		1745.0	23.84	23.11	22.10	22.44	21.71	20.70
		1711.5	23.78	23.18	22.08	22.38	21.78	20.68
	50% RB mid	1778.5	22.79	21.95	20.97	21.39	20.55	19.57
		1745.0	22.91	22.00	20.91	21.51	20.60	19.51
		1711.5	22.94	22.01	20.91	21.54	20.61	19.51
	100% RB	1778.5	22.81	21.98	20.93	21.41	20.58	19.53
		1745.0	22.91	21.92	20.92	21.51	20.52	19.52
		1711.5	22.92	21.96	20.92	21.52	20.56	19.52
5MHz	1 RB high	1777.5	23.83	23.00	21.99	22.43	21.60	20.59
		1745.0	23.84	23.16	22.04	22.44	21.76	20.64
		1712.5	23.90	23.26	22.18	22.50	21.86	20.78
	1 RB low	1777.5	23.81	23.07	22.01	22.41	21.67	20.61
		1745.0	23.86	23.18	22.08	22.46	21.78	20.68
		1712.5	23.85	23.18	22.03	22.45	21.78	20.63
	50% RB mid	1777.5	22.77	21.89	20.93	21.37	20.49	19.53
		1745.0	22.94	21.94	20.94	21.54	20.54	19.54
		1712.5	22.95	21.90	20.97	21.55	20.50	19.57
	100% RB	1777.5	22.82	21.96	20.89	21.42	20.56	19.49
		1745.0	22.95	21.95	20.91	21.55	20.55	19.51
		1712.5	22.94	21.96	20.93	21.54	20.56	19.53
10MHz	1 RB high	1775.0	23.80	23.07	22.02	22.40	21.67	20.62
		1745.0	23.80	23.08	22.06	22.40	21.68	20.66



	1 RB low	1715.0	23.90	23.29	22.08	22.5	21.89	20.68
		1775.0	23.81	23.10	21.97	22.41	21.7	20.57
		1745.0	23.80	23.14	22.12	22.40	21.74	20.72
	50% RB mid	1715.0	23.85	23.22	22.07	22.45	21.82	20.67
		1775.0	22.80	21.93	20.89	21.40	20.53	19.49
		1745.0	22.91	21.96	20.93	21.51	20.56	19.53
	100% RB	1715.0	22.97	21.97	20.98	21.57	20.57	19.58
		1775.0	22.80	21.92	20.91	21.40	20.52	19.51
		1745.0	22.93	21.90	20.90	21.53	20.50	19.50
15MHz	1 RB high	1715.0	22.98	21.98	20.90	21.58	20.58	19.50
		1775.0	22.80	21.92	20.91	21.40	20.52	19.51
		1745.0	22.93	21.90	20.90	21.53	20.50	19.50
	1 RB low	1772.5	23.78	22.95	22.05	22.38	21.55	20.65
		1745.0	23.72	23.03	21.90	22.32	21.63	20.50
		1717.5	23.80	23.28	22.00	22.40	21.88	20.60
	50% RB mid	1772.5	23.72	22.96	22.00	22.32	21.56	20.60
		1745.0	23.79	23.22	22.09	22.39	21.82	20.69
		1717.5	23.77	23.14	22.03	22.37	21.74	20.63
100% RB	1772.5	22.75	21.91	20.91	21.35	20.51	19.51	
	1745.0	22.94	21.92	20.90	21.54	20.52	19.50	
	1717.5	22.94	21.94	20.92	21.54	20.54	19.52	
20MHz	1 RB high	1772.5	22.78	21.86	20.87	21.38	20.46	19.47
		1745.0	22.95	21.91	20.84	21.55	20.51	19.44
		1717.5	22.95	21.91	20.90	21.55	20.51	19.50
	1 RB low	1770.0	23.73	22.96	21.90	22.33	21.56	20.50
		1745.0	23.75	22.91	22.04	22.35	21.51	20.64
		1720.0	23.79	23.07	22.05	22.39	21.67	20.65
	50% RB mid	1770.0	23.73	23.01	21.94	22.33	21.61	20.54
		1745.0	23.74	23.05	21.98	22.34	21.65	20.58
		1720.0	23.77	23.05	21.92	22.37	21.65	20.52
100% RB	1770.0	22.83	21.94	20.93	21.43	20.54	19.53	
	1745.0	22.98	21.93	20.92	21.58	20.53	19.52	
	1720.0	23.04	21.95	20.93	21.64	20.55	19.53	
	1 RB high	1770.0	22.82	21.94	20.92	21.42	20.54	19.52
		1745.0	22.93	21.86	20.86	21.53	20.46	19.46
		1720.0	22.99	21.94	20.93	21.59	20.54	19.53

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

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-5.0)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	24.46	23.69	22.65	17.31	16.54	15.50
		680.5	24.44	23.52	22.45	17.29	16.37	15.30
		665.5	24.44	23.66	22.56	17.29	16.51	15.41
	1 RB low	695.5	24.54	23.66	22.58	17.39	16.51	15.43
		680.5	24.51	23.74	22.56	17.36	16.59	15.41
		665.5	24.53	23.66	22.55	17.38	16.51	15.40
	50% RB mid	695.5	23.45	22.43	21.45	16.30	15.28	14.30
		680.5	23.46	22.45	21.45	16.31	15.30	14.30
		665.5	23.44	22.38	21.37	16.29	15.23	14.22
	100% RB	695.5	23.47	22.49	21.42	16.32	15.34	14.27
		680.5	23.44	22.42	21.36	16.29	15.27	14.21
		665.5	23.40	22.42	21.37	16.25	15.27	14.22
10MHz	1 RB high	693.0	23.46	23.68	22.53	16.31	16.53	15.38
		680.5	24.47	23.68	22.51	17.32	16.53	15.36
		668.0	24.48	23.66	22.46	17.33	16.51	15.31
	1 RB low	693.0	23.48	23.61	22.39	16.33	16.46	15.24
		680.5	24.55	23.69	22.51	17.40	16.54	15.36
		668.0	24.65	23.63	22.58	17.50	16.48	15.43
	50% RB mid	693.0	23.48	22.47	21.46	16.33	15.32	14.31
		680.5	23.46	22.41	21.40	16.31	15.26	14.25
		668.0	23.41	22.42	21.40	16.26	15.27	14.25
	100% RB	693.0	23.48	22.42	21.39	16.33	15.27	14.24
		680.5	23.50	22.41	21.41	16.35	15.26	14.26
		668.0	23.45	22.39	21.35	16.30	15.24	14.20
15MHz	1 RB high	690.5	24.53	23.69	22.59	17.38	16.54	15.44
		680.5	24.43	23.60	22.47	17.28	16.45	15.32
		670.5	24.48	23.61	22.50	17.33	16.46	15.35
	1 RB low	690.5	24.47	23.75	22.52	17.32	16.6	15.37
		680.5	24.55	23.71	22.62	17.40	16.56	15.47
		670.5	24.55	23.71	22.59	17.40	16.56	15.44
	50% RB mid	690.5	23.48	22.48	21.44	16.33	15.33	14.29
		680.5	23.51	22.47	21.48	16.36	15.32	14.33
		670.5	23.50	22.42	21.45	16.35	15.27	14.30
	100% RB	690.5	23.52	22.49	21.40	16.37	15.34	14.25
		680.5	23.52	22.46	21.42	16.37	15.31	14.27
		670.5	23.45	22.40	21.40	16.30	15.25	14.25
20MHz	1 RB high	688.0	24.26	23.34	22.35	17.11	16.19	15.20
		680.5	24.26	23.48	22.27	17.11	16.33	15.12



		673.0	24.26	23.46	22.45	17.11	16.31	15.30
1 RB low		688.0	24.31	23.54	22.43	17.16	16.39	15.28
		680.5	24.30	23.42	22.41	17.15	16.27	15.26
		673.0	24.29	23.54	22.34	17.14	16.39	15.19
50% RB mid		688.0	23.38	22.37	21.31	16.23	15.22	14.16
		680.5	23.39	22.37	21.37	16.24	15.22	14.22
		673.0	23.36	22.39	21.31	16.21	15.24	14.16
100% RB		688.0	23.37	22.32	21.31	16.22	15.17	14.16
		680.5	23.33	22.32	21.27	16.18	15.17	14.12
		673.0	23.34	22.31	21.30	16.19	15.16	14.15

A.2 Emission Limit

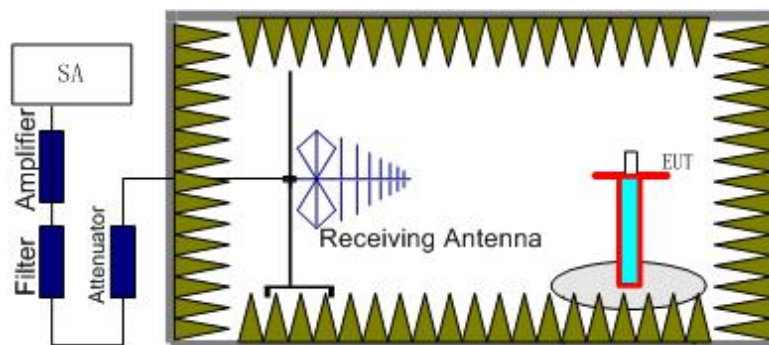
A.2.1 Measurement Method

The measurements procedures in TIA-603E-2016 are used. This measurement is carried out in fully anechoic chamber FAC-3.

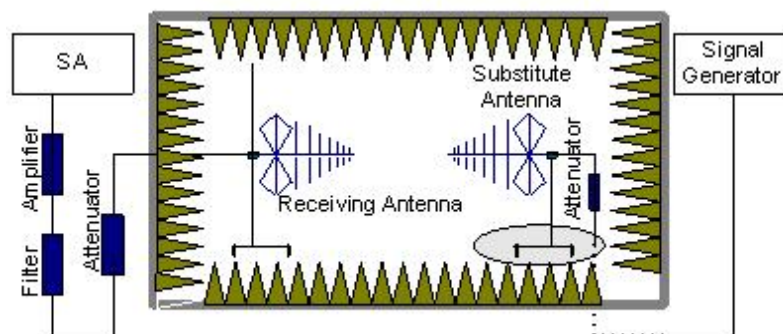
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5-meter-high non-conductive stand at a 3-meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. 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.



2. 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).
3. 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. A power (P_{Mea}) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

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

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

A.2.2 Measurement Limit

FDD Band 2/25: 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.

FDD Band 4/66: 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.

FDD Band 5/26(824MHz~849MHz): Part 22.917 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.

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

FDD Band 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.

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.

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 9 kHz to 26GHz. Measurement value show only up to 6 maximum emissions noted.

LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3734.02	-55.12	6.34	8.53	-52.93	-13.00	39.93	V
5570.02	-55.57	7.20	10.59	-52.18	-13.00	39.18	H
7405.01	-54.65	8.13	12.09	-50.69	-13.00	37.69	V
9250.01	-53.53	9.04	13.25	-49.32	-13.00	36.32	V
11101.01	-50.85	9.83	13.18	-47.50	-13.00	34.50	V
12953.01	-48.58	10.49	13.47	-45.60	-13.00	32.60	V

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3733.02	-54.20	6.35	8.53	-52.02	-13.00	39.02	V
5633.02	-55.84	7.27	10.57	-52.54	-13.00	39.54	H
7475.01	-54.05	8.32	12.17	-50.20	-13.00	37.20	H
9447.01	-53.76	9.27	13.37	-49.66	-13.00	36.66	H
11253.01	-50.49	9.72	13.15	-47.06	-13.00	34.06	V
13142.01	-47.84	10.75	13.70	-44.89	-13.00	31.89	H

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3819.02	-55.33	6.08	8.65	-52.76	-13.00	39.76	H
5731.02	-54.82	7.29	10.55	-51.56	-13.00	38.56	H
7667.01	-53.89	8.28	12.33	-49.84	-13.00	36.84	V
9584.01	-53.33	9.24	13.32	-49.25	-13.00	36.25	V
11505.01	-50.67	9.81	13.10	-47.38	-13.00	34.38	V
13375.01	-48.63	10.57	14.03	-45.17	-13.00	32.17	V

LTE Band 4, 1.4MHz, QPSK, Channel 19957

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-67.19	5.38	8.01	-64.56	-13.00	51.56	V
5138.02	-66.38	6.86	10.09	-63.15	-13.00	50.15	H
6805.01	-64.74	7.89	11.37	-61.26	-13.00	48.26	V
8571.01	-64.92	8.54	13.01	-60.45	-13.00	47.45	V
10310.01	-62.19	9.66	13.02	-58.83	-13.00	45.83	V
11951.01	-60.20	10.28	13.01	-57.47	-13.00	44.47	V

LTE Band 4, 1.4MHz, QPSK, Channel 20175

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3465.02	-66.27	5.46	8.12	-63.61	-13.00	50.61	H
5149.02	-66.25	6.88	10.11	-63.02	-13.00	50.02	V
6880.01	-64.97	7.78	11.46	-61.29	-13.00	48.29	V
8626.01	-64.88	8.46	13.03	-60.31	-13.00	47.31	V
10379.01	-62.25	9.77	13.05	-58.97	-13.00	45.97	V
12150.01	-60.07	10.20	13.06	-57.21	-13.00	44.21	V

LTE Band 4, 1.4MHz, QPSK, Channel 20393

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3509.02	-67.33	5.54	8.21	-64.66	-13.00	51.66	H
5269.02	-65.99	6.99	10.28	-62.70	-13.00	49.70	H
6982.01	-64.71	8.16	11.58	-61.29	-13.00	48.29	V
8768.01	-65.00	8.56	13.05	-60.51	-13.00	47.51	V
10489.01	-61.91	9.67	13.10	-58.48	-13.00	45.48	V
12247.01	-60.23	10.03	13.10	-57.16	-13.00	44.16	V

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1650.01	-59.18	3.57	5.23	2.15	-59.67	-13.00	46.67	H
2474.00	-53.37	4.60	6.02	2.15	-54.10	-13.00	41.10	V
3306.02	-54.51	5.29	7.73	2.15	-54.22	-13.00	41.22	H
4132.02	-55.18	6.05	9.03	2.15	-54.35	-13.00	41.35	H
4940.01	-54.65	6.71	9.84	2.15	-53.67	-13.00	40.67	H
5777.01	-54.09	7.22	10.54	2.15	-52.92	-13.00	39.92	V

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1673.01	-59.17	3.58	5.19	2.15	-59.71	-13.00	46.71	H
2514.00	-52.76	4.64	6.13	2.15	-53.42	-13.00	40.42	V
3343.02	-54.78	5.31	7.82	2.15	-54.42	-13.00	41.42	H
4188.02	-54.56	6.18	9.09	2.15	-53.80	-13.00	40.80	V
5023.01	-54.12	6.56	9.93	2.15	-52.90	-13.00	39.90	V
5858.01	-53.15	7.26	10.53	2.15	-52.03	-13.00	39.03	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1697.01	-59.20	3.60	5.15	2.15	-59.80	-13.00	46.80	H
2547.00	-52.62	4.67	6.18	2.15	-53.26	-13.00	40.26	H
3398.02	-55.38	5.36	7.96	2.15	-54.93	-13.00	41.93	H
4238.02	-54.50	6.25	9.14	2.15	-53.76	-13.00	40.76	V
5088.01	-54.24	6.74	10.02	2.15	-53.11	-13.00	40.11	H
5951.01	-53.45	7.47	10.51	2.15	-52.56	-13.00	39.56	V

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4985.02	-55.85	6.63	9.89	-52.59	-25.00	27.59	V
7514.01	-52.96	8.34	12.21	-49.09	-25.00	24.09	V
10021.01	-52.22	9.24	12.91	-48.55	-25.00	23.55	V
12524.01	-48.49	10.24	13.21	-45.52	-25.00	20.52	V
15011.00	-45.92	11.23	13.99	-43.16	-25.00	18.16	H
17501.00	-44.80	12.73	14.90	-42.63	-25.00	17.63	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5086.02	-56.52	6.73	10.02	-53.23	-25.00	28.23	V
7612.01	-51.31	8.03	12.29	-47.05	-25.00	22.05	V
10121.01	-52.97	9.43	12.95	-49.45	-25.00	24.45	V
12672.01	-48.21	10.35	13.30	-45.26	-25.00	20.26	H
15224.00	-45.33	11.37	13.87	-42.83	-25.00	17.83	H
17752.00	-44.46	12.47	15.25	-41.68	-25.00	16.68	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5125.02	-55.62	6.84	10.08	-52.38	-25.00	27.38	H
7684.01	-53.89	8.35	12.35	-49.89	-25.00	24.89	H
10274.01	-51.73	9.55	13.01	-48.27	-25.00	23.27	V
12854.01	-46.08	10.63	13.41	-43.30	-25.00	18.30	H
15402.00	-45.09	11.40	13.76	-42.73	-25.00	17.73	V
17989.00	-44.10	12.90	15.58	-41.42	-25.00	16.42	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1387.01	-47.79	3.22	4.91	2.15	-48.25	-13.00	35.25	V
2099.00	-53.97	4.19	4.90	2.15	-55.41	-13.00	42.41	V
2797.00	-51.91	4.91	6.63	2.15	-52.34	-13.00	39.34	H
3502.02	-55.11	5.52	8.20	2.15	-54.58	-13.00	41.58	H
4200.02	-54.40	6.21	9.10	2.15	-53.66	-13.00	40.66	H
4894.01	-54.49	6.73	9.79	2.15	-53.58	-13.00	40.58	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1412.01	-50.44	3.25	5.04	2.15	-50.80	-13.00	37.80	H
2123.00	-54.11	4.21	4.97	2.15	-55.50	-13.00	42.50	H
2836.00	-52.81	4.95	6.70	2.15	-53.21	-13.00	40.21	V
3530.02	-55.16	5.62	8.24	2.15	-54.69	-13.00	41.69	V
4244.02	-54.72	6.25	9.14	2.15	-53.98	-13.00	40.98	H
4960.01	-53.63	6.67	9.86	2.15	-52.59	-13.00	39.59	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1431.01	-55.73	3.28	5.14	2.15	-56.02	-13.00	43.02	H
2146.00	-55.12	4.24	5.04	2.15	-56.47	-13.00	43.47	H
2873.00	-52.28	4.97	6.77	2.15	-52.63	-13.00	39.63	H
3590.02	-53.75	6.24	8.33	2.15	-53.81	-13.00	40.81	H
4296.02	-54.81	6.20	9.20	2.15	-53.96	-13.00	40.96	V
5009.01	-54.14	6.59	9.91	2.15	-52.97	-13.00	39.97	V

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1550.01	-59.32	3.46	5.41	2.15	-59.52	-13.00	46.52	H
2334.00	-53.92	4.44	5.60	2.15	-54.91	-13.00	41.91	H
3131.02	-53.23	5.39	7.31	2.15	-53.46	-13.00	40.46	H
3906.02	-54.42	6.11	8.77	2.15	-53.91	-13.00	40.91	V
4670.02	-53.61	6.48	9.57	2.15	-52.67	-13.00	39.67	V
5470.01	-53.85	6.95	10.56	2.15	-52.39	-13.00	39.39	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1566.01	-57.28	3.48	5.38	2.15	-57.53	-13.00	44.53	H
2350.00	-55.09	4.46	5.65	2.15	-56.05	-13.00	43.05	V
3134.02	-52.75	5.39	7.32	2.15	-52.97	-13.00	39.97	V
3903.02	-54.94	6.11	8.76	2.15	-54.44	-13.00	41.44	V
4678.02	-54.19	6.49	9.58	2.15	-53.25	-13.00	40.25	V
5484.01	-54.72	7.00	10.58	2.15	-53.29	-13.00	40.29	H

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1555.01	-60.09	3.47	5.40	2.15	-60.31	-13.00	47.31	H
2343.00	-53.63	4.45	5.63	2.15	-54.60	-13.00	41.60	V
3137.02	-52.11	5.39	7.33	2.15	-52.32	-13.00	39.32	V
3908.02	-54.97	6.11	8.77	2.15	-54.46	-13.00	41.46	V
4699.02	-54.09	6.50	9.60	2.15	-53.14	-13.00	40.14	V
5500.01	-53.78	7.06	10.60	2.15	-52.39	-13.00	39.39	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
7674.01	-53.64	8.31	12.34	-49.61	-13.00	36.61	V
9445.01	-52.63	9.26	13.37	-48.52	-13.00	35.52	V
11392.01	-48.69	10.06	13.12	-45.63	-13.00	32.63	V
13050.01	-47.39	10.70	13.57	-44.52	-13.00	31.52	H
15160.00	-44.17	11.38	13.90	-41.65	-13.00	28.65	H
16822.00	-41.63	12.09	13.73	-39.99	-13.00	26.99	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
7567.01	-54.32	8.11	12.25	-50.18	-13.00	37.18	H
9421.01	-53.74	9.14	13.35	-49.53	-13.00	36.53	V
11308.01	-50.69	10.00	13.14	-47.55	-13.00	34.55	V
13154.01	-48.11	10.70	13.72	-45.09	-13.00	32.09	H
15102.00	-45.14	11.35	13.94	-42.55	-13.00	29.55	V
16952.00	-41.62	12.19	13.78	-40.03	-13.00	27.03	V

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5746.02	-51.08	7.27	10.55	-47.80	-13.00	34.80	H
9552.01	-53.20	9.35	13.35	-49.20	-13.00	36.20	V
11457.01	-50.35	9.92	13.11	-47.16	-13.00	34.16	H
13408.01	-47.45	10.57	14.07	-43.95	-13.00	30.95	H
15350.00	-44.59	11.34	13.79	-42.14	-13.00	29.14	H
17261.00	-42.61	12.36	14.37	-40.60	-13.00	27.60	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1651.01	-56.90	3.57	5.23	2.15	-57.39	-13.00	44.39	H
2455.00	-53.65	4.58	5.97	2.15	-54.41	-13.00	41.41	V
3297.02	-49.28	5.29	7.71	2.15	-49.01	-13.00	36.01	H
4126.02	-54.25	6.04	9.03	2.15	-53.41	-13.00	40.41	V
4935.01	-53.76	6.72	9.84	2.15	-52.79	-13.00	39.79	H
5766.01	-53.65	7.24	10.55	2.15	-52.49	-13.00	39.49	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1691.01	-59.80	3.59	5.16	2.15	-60.38	-13.00	47.38	V
2519.00	-53.34	4.64	6.13	2.15	-54.00	-13.00	41.00	V
3347.02	-45.52	5.32	7.83	2.15	-45.16	-13.00	32.16	H
4185.02	-54.68	6.17	9.09	2.15	-53.91	-13.00	40.91	H
5031.01	-54.41	6.58	9.94	2.15	-53.20	-13.00	40.20	V
5871.01	-53.18	7.30	10.53	2.15	-52.10	-13.00	39.10	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1711.01	-57.88	3.61	5.12	2.15	-58.52	-13.00	45.52	V
2535.00	-52.81	4.66	6.16	2.15	-53.46	-13.00	40.46	H
3398.02	-50.71	5.36	7.96	2.15	-50.26	-13.00	37.26	H
4251.02	-54.51	6.24	9.15	2.15	-53.75	-13.00	40.75	H
5104.01	-53.44	6.78	10.05	2.15	-52.32	-13.00	39.32	V
5929.01	-51.97	7.47	10.51	2.15	-51.08	-13.00	38.08	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5702.01	-53.07	7.29	10.56	2.15	-51.95	-13.00	38.95	H
6523.01	-52.97	7.50	11.03	2.15	-51.59	-13.00	38.59	V
7319.01	-51.85	8.10	11.98	2.15	-50.12	-13.00	37.12	V
8153.01	-52.16	8.42	12.72	2.15	-50.01	-13.00	37.01	V
8967.00	-51.13	9.08	13.09	2.15	-49.27	-13.00	36.27	H
9770.00	-51.18	8.97	13.13	2.15	-49.17	-13.00	36.17	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1657.01	-59.89	3.57	5.22	2.15	-60.39	-13.00	47.39	V
2457.00	-52.41	4.58	5.97	2.15	-53.17	-13.00	40.17	V
3289.02	-54.31	5.29	7.69	2.15	-54.06	-13.00	41.06	V
4083.02	-55.13	6.04	8.98	2.15	-54.34	-13.00	41.34	V
4910.01	-54.31	6.73	9.81	2.15	-53.38	-13.00	40.38	H
5717.01	-53.19	7.30	10.56	2.15	-52.08	-13.00	39.08	V

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

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5085.01	-50.93	6.73	10.02	2.15	-49.79	-13.00	36.79	H
6779.01	-51.83	7.92	11.33	2.15	-50.57	-13.00	37.57	V
7572.01	-51.27	8.09	12.26	2.15	-49.25	-13.00	36.25	V
8079.01	-50.94	8.32	12.66	2.15	-48.75	-13.00	35.75	V
9035.00	-50.46	9.11	13.12	2.15	-48.60	-13.00	35.60	V
9925.00	-49.57	9.11	12.97	2.15	-47.86	-13.00	34.86	V

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4994.02	-56.76	6.61	9.89	-53.48	-25.00	28.48	H
7500.01	-53.43	8.39	12.20	-49.62	-25.00	24.62	V
9989.01	-53.25	9.17	12.91	-49.51	-25.00	24.51	V
12491.01	-50.26	10.20	13.20	-47.26	-25.00	22.26	V
14995.00	-46.47	11.21	14.00	-43.68	-25.00	18.68	H
17485.00	-44.88	12.69	14.87	-42.70	-25.00	17.70	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
6504.02	-55.00	7.52	11.00	-51.52	-25.00	26.52	H
7784.01	-51.79	8.31	12.43	-47.67	-25.00	22.67	V
10352.01	-51.28	9.73	13.04	-47.97	-25.00	22.97	V
12935.01	-48.76	10.49	13.46	-45.79	-25.00	20.79	H
15587.00	-43.94	11.49	13.70	-41.73	-25.00	16.73	H
16877.00	-42.47	12.02	13.75	-40.74	-25.00	15.74	V

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5356.02	-56.34	6.92	10.40	-52.86	-25.00	27.86	V
8069.01	-51.99	8.32	12.66	-47.65	-25.00	22.65	V
10745.01	-51.38	9.42	13.15	-47.65	-25.00	22.65	V
12095.01	-48.32	10.33	13.04	-45.61	-25.00	20.61	V
16117.00	-42.16	11.83	13.68	-40.31	-25.00	15.31	V
17466.00	-44.37	12.65	14.83	-42.19	-25.00	17.19	V

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3422.02	-67.14	5.38	8.01	-64.51	-13.00	51.51	H
5150.02	-66.31	6.88	10.11	-63.08	-13.00	50.08	V
6880.01	-64.94	7.78	11.46	-61.26	-13.00	48.26	V
8561.01	-64.82	8.56	13.01	-60.37	-13.00	47.37	V
10316.01	-62.22	9.67	13.03	-58.86	-13.00	45.86	V
12014.01	-60.27	10.09	13.01	-57.35	-13.00	44.35	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3490.02	-66.16	5.50	8.18	-63.48	-13.00	50.48	H
5242.02	-66.31	7.00	10.24	-63.07	-13.00	50.07	H
6991.01	-64.51	8.23	11.59	-61.15	-13.00	48.15	V
8760.01	-64.82	8.54	13.05	-60.31	-13.00	47.31	V
10497.01	-61.76	9.66	13.10	-58.32	-13.00	45.32	V
12219.01	-59.80	10.05	13.09	-56.76	-13.00	43.76	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3600.02	-66.39	6.34	8.34	-64.39	-13.00	51.39	V
5284.02	-66.48	6.99	10.30	-63.17	-13.00	50.17	V
7123.01	-64.39	8.16	11.75	-60.80	-13.00	47.80	H
8951.01	-64.31	9.03	13.09	-60.25	-13.00	47.25	V
10674.01	-61.78	9.30	13.13	-57.95	-13.00	44.95	V
12469.01	-59.72	10.26	13.19	-56.79	-13.00	43.79	V

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1331.01	-57.11	3.15	4.62	2.15	-57.79	-13.00	44.79	H
1967.01	-55.83	3.96	4.66	2.15	-57.28	-13.00	44.28	H
2640.00	-52.47	4.73	6.35	2.15	-53.00	-13.00	40.00	V
3349.02	-54.32	5.32	7.84	2.15	-53.95	-13.00	40.95	V
3973.02	-54.58	6.09	8.86	2.15	-53.96	-13.00	40.96	V
4640.02	-52.64	6.46	9.54	2.15	-51.71	-13.00	38.71	V

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1365.01	-59.22	3.19	4.80	2.15	-59.76	-13.00	46.76	H
2044.00	-55.85	4.14	4.73	2.15	-57.41	-13.00	44.41	V
2713.00	-52.92	4.80	6.48	2.15	-53.39	-13.00	40.39	H
3405.02	-55.20	5.37	7.97	2.15	-54.75	-13.00	41.75	V
4096.02	-54.78	6.04	9.00	2.15	-53.97	-13.00	40.97	V
4760.01	-54.09	6.59	9.66	2.15	-53.17	-13.00	40.17	V

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1417.01	-41.72	3.26	5.07	2.15	-42.06	-13.00	29.06	V
2094.00	-55.55	4.19	4.88	2.15	-57.01	-13.00	44.01	H
2772.00	-52.04	4.87	6.59	2.15	-52.47	-13.00	39.47	H
3483.02	-54.48	5.49	8.16	2.15	-53.96	-13.00	40.96	H
4174.02	-54.50	6.15	9.07	2.15	-53.73	-13.00	40.73	V
4878.01	-54.13	6.72	9.78	2.15	-53.22	-13.00	40.22	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 5.16 dB, k = 2.

A.3 Frequency Stability

A.3.1 Method of Measurement

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

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

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from -30°C to +50°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 2, 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	1850.833	1909.199		
50				-2.36	0.0013
40				-2.07	0.0011
30				-0.17	0.0001
10				-3.63	0.0019
0				-2.79	0.0015
-10				-2.60	0.0014
-20				-21.87	0.0116
-30				-2.40	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1850.833	1909.199	0.13	0.0001
4.45				-0.33	0.0002

LTE Band 4, 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	1710.833	1754.199		
50				0.26	0.0002
40				0.39	0.0002
30				1.65	0.0010
10				4.52	0.0026
0				1.40	0.0008
-10				3.42	0.0020
-20				4.79	0.0028
-30				3.73	0.0022

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1710.833	1754.199	-14.31	0.0083
4.45				-14.72	0.0085

LTE Band 5, 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	824.401	848.583		
50				-13.46	0.0161
40				-14.55	0.0174
30				-13.29	0.0159
10				-13.62	0.0163
0				-13.09	0.0156
-10				-12.06	0.0144
-20				-14.51	0.0173
-30				2.03	0.0024

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	824.401	848.583	0.57	0.0007
4.45				-12.45	0.0149

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	2500.897	2569.103		
50				-31.09	0.0123
40				-36.64	0.0145
30				-31.40	0.0124
10				-31.90	0.0126
0				-26.02	0.0103
-10				-28.08	0.0111
-20				-1.24	0.0005
-30				-1.67	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2500.897	2569.103	0.07	0.0000
4.45				-29.83	0.0118

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	699.465	715.519		
50				2.22	0.0031
40				14.05	0.0199
30				13.89	0.0196
10				4.02	0.0057
0				3.50	0.0049
-10				11.63	0.0164
-20				14.16	0.0200
-30				15.38	0.0217

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	699.465	715.519	13.10	0.0185
4.45				3.63	0.0051

LTE Band 13, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	777.433	786.567		
50				-2.05	0.0026
40				-2.37	0.0030
30				9.53	0.0122
10				-1.77	0.0023
0				12.33	0.0158
-10				-0.89	0.0011
-20				0.14	0.0002
-30				0.62	0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	777.433	786.567	0.50	0.0006
4.45				-0.94	0.0012

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	1850.833	1914.199		
50				23.90	0.0127
40				20.27	0.0108
30				20.51	0.0109
10				18.15	0.0096
0				18.67	0.0099
-10				-1.80	0.0010
-20				-0.44	0.0002
-30				24.12	0.0128

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1850.833	1914.199	21.90	0.0116
4.45				20.30	0.0108

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				-1.76	0.0021
40				0.49	0.0006
30				-0.94	0.0011
10				0.00	0.0000
0				-14.36	0.0175
-10				-15.98	0.0195
-20				-2.56	0.0031
-30				-16.09	0.0196

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	814.385	823.611	3.88	0.0047
4.45				-12.89	0.0157

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	848.471		
50				-2.56	0.0031
40				-1.79	0.0021
30				-0.20	0.0002
10				-1.52	0.0018
0				-0.51	0.0006
-10				11.59	0.0139
-20				-1.29	0.0015
-30				-0.62	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	824.553	848.471	-1.30	0.0016
4.45				-1.03	0.0012

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	2496.385	2689.551		
50				42.01	0.0162
40				0.64	0.0002
30				4.06	0.0016
10				5.92	0.0023
0				1.42	0.0005
-10				4.88	0.0019
-20				5.06	0.0020
-30				4.35	0.0017

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	2496.385	2689.551	10.99	0.0042
4.45				10.81	0.0042

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				-1.87	0.0011
40				-0.67	0.0004
30				2.45	0.0014
10				-3.49	0.0020
0				2.19	0.0013
-10				-2.15	0.0012
-20				3.56	0.0020
-30				-1.24	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	1710.801	1779.199	-0.70	0.0004
4.45				0.00	0.0000

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				-0.74	0.0011
40				-0.60	0.0009
30				-3.36	0.0049
10				-9.64	0.0142
0				-3.75	0.0055
-10				-1.13	0.0017
-20				-0.66	0.0010
-30				-1.36	0.0020

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.60	20	663.994	697.006	-0.67	0.0010
4.45				-1.24	0.0018

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.

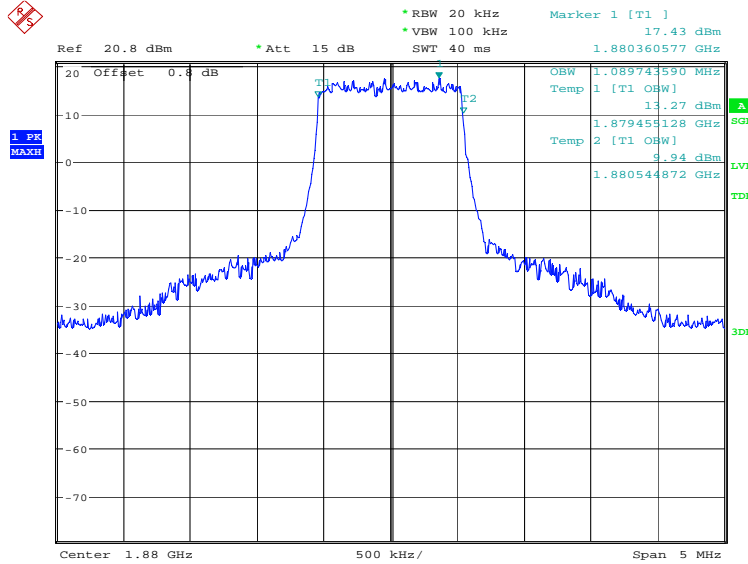
The measurement method is from ANSI C63.26:

- 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 2, 1.4MHz (99%)

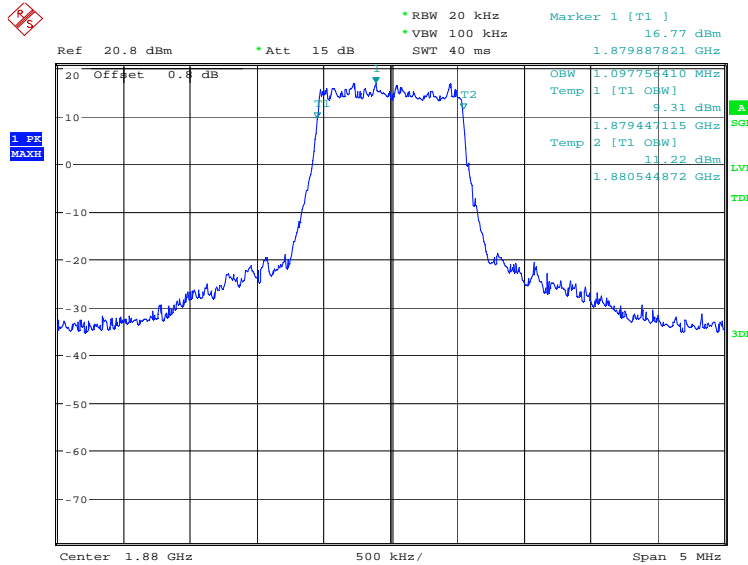
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1097.76

LTE band 2, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 29.MAR.2021 09:48:51

LTE band 2, 1.4MHz Bandwidth, 16QAM (99% BW)

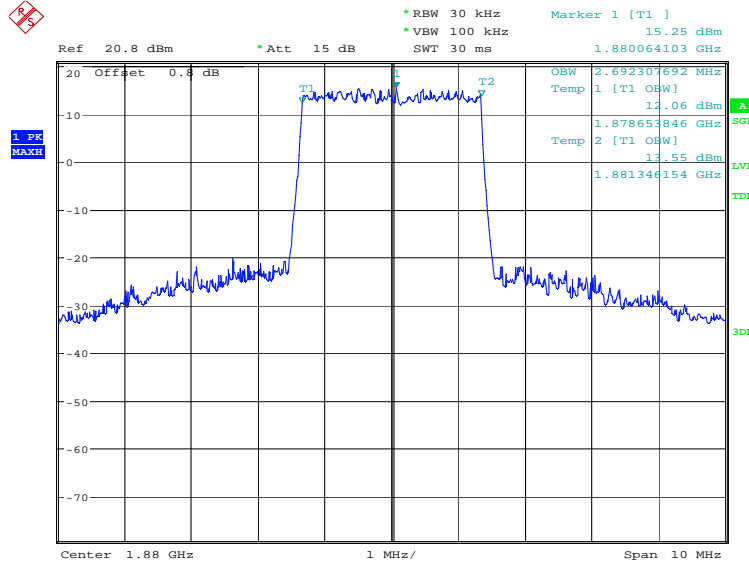


Date: 29.MAR.2021 09:49:30

LTE band 2, 3MHz (99%)

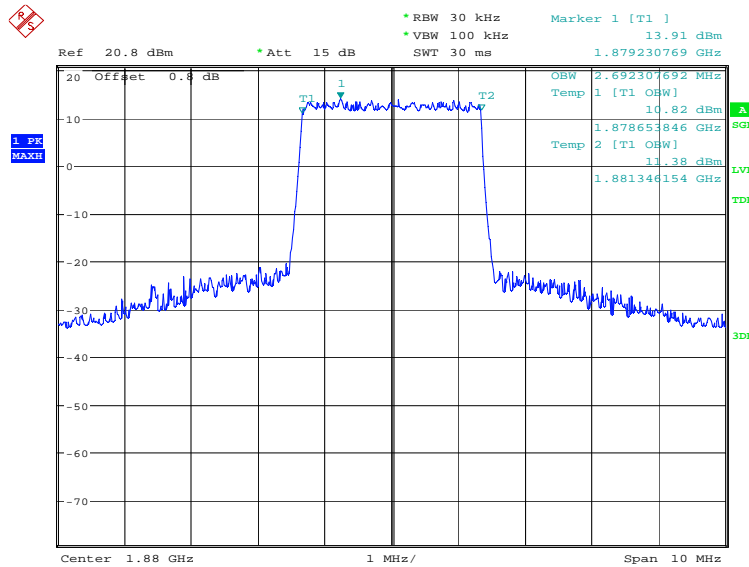
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 29.MAR.2021 09:50:59

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

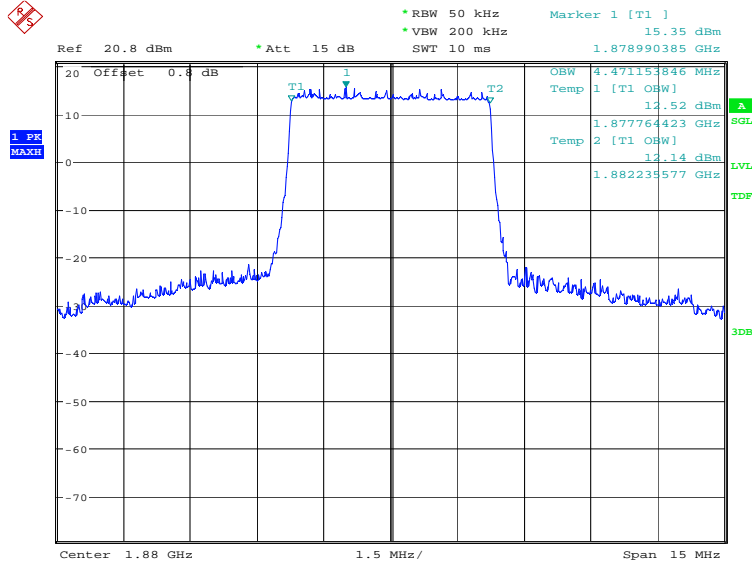


Date: 29.MAR.2021 09:51:38

LTE band 2, 5MHz (99%)

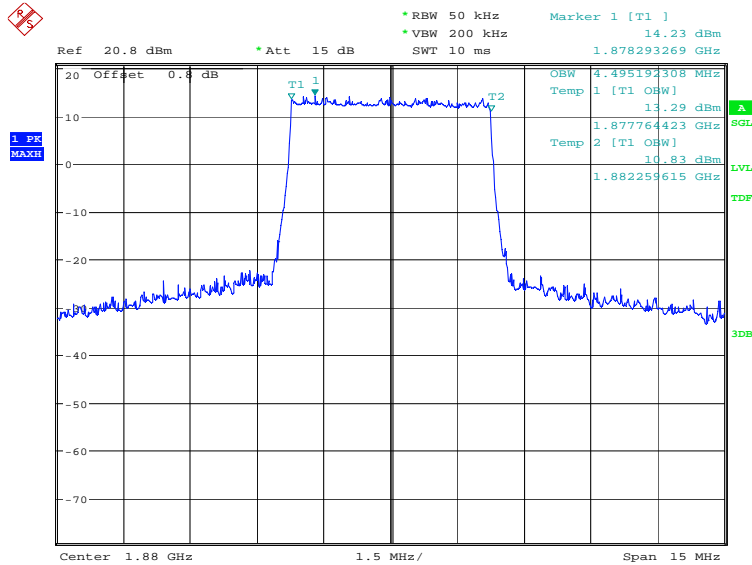
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 29.MAR.2021 09:53:06

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

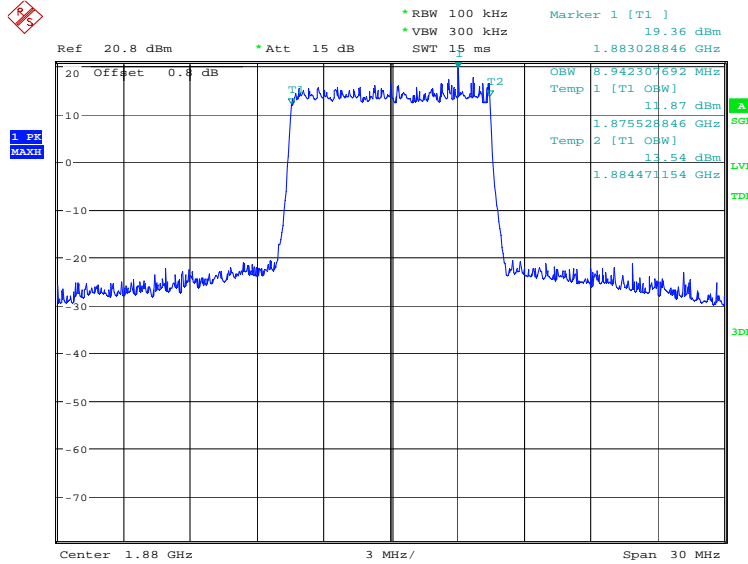


Date: 29.MAR.2021 09:53:45

LTE band 2, 10MHz (99%)

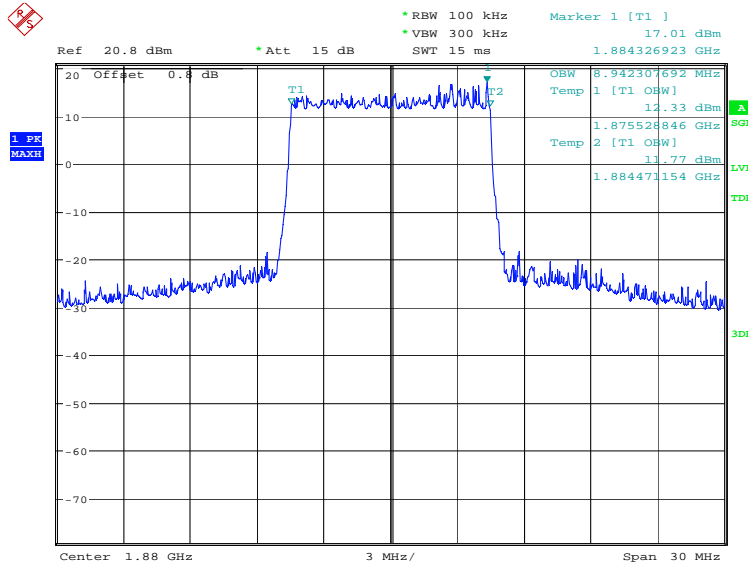
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 29.MAR.2021 09:55:13

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

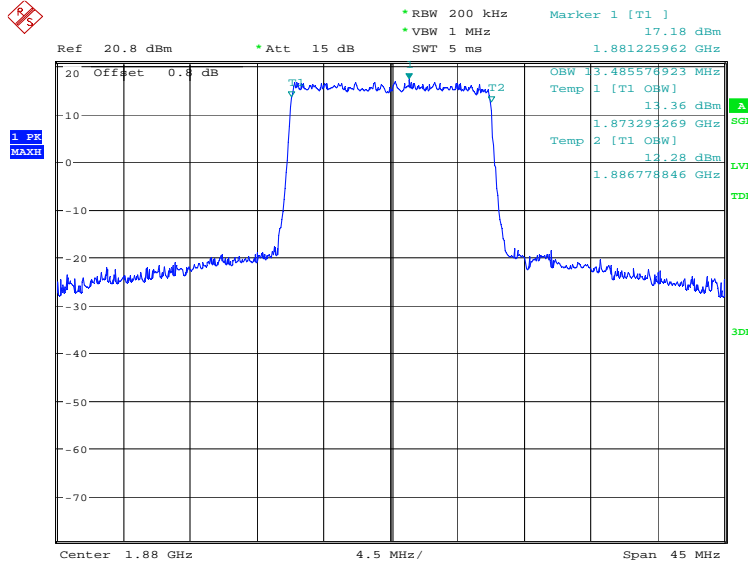


Date: 29.MAR.2021 09:55:52

LTE band 2, 15MHz (99%)

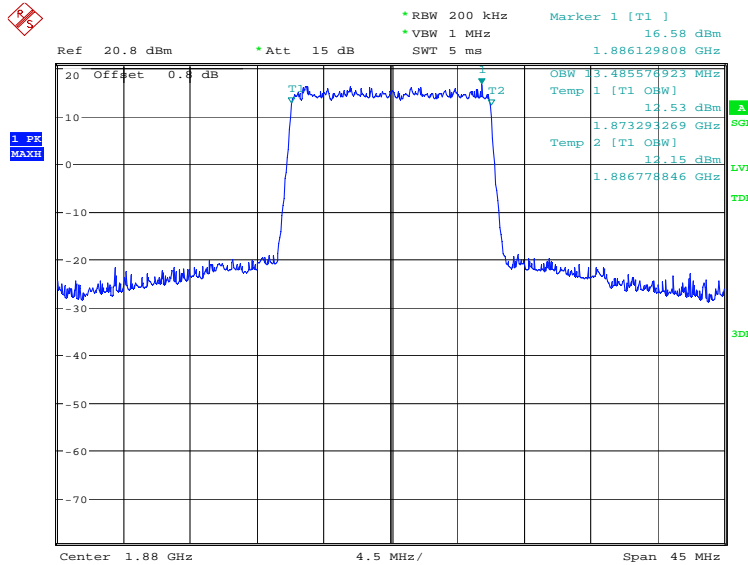
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 29.MAR.2021 09:57:20

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

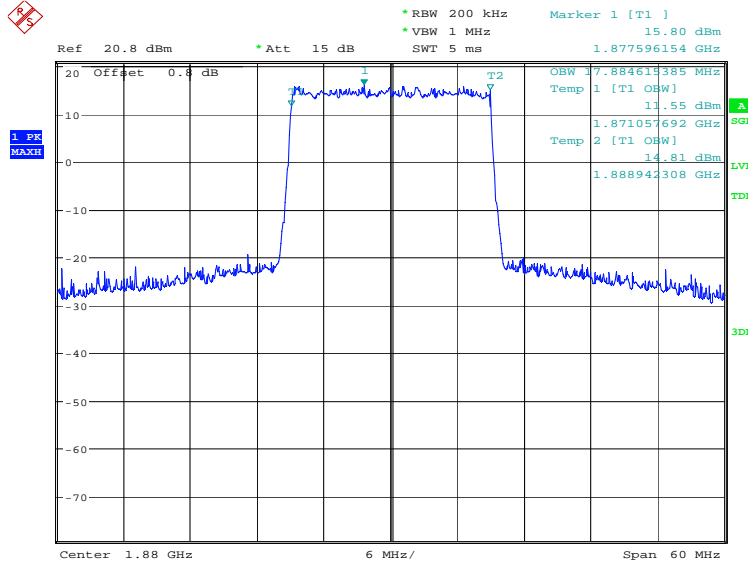


Date: 29.MAR.2021 09:57:58

LTE band 2, 20MHz (99%)

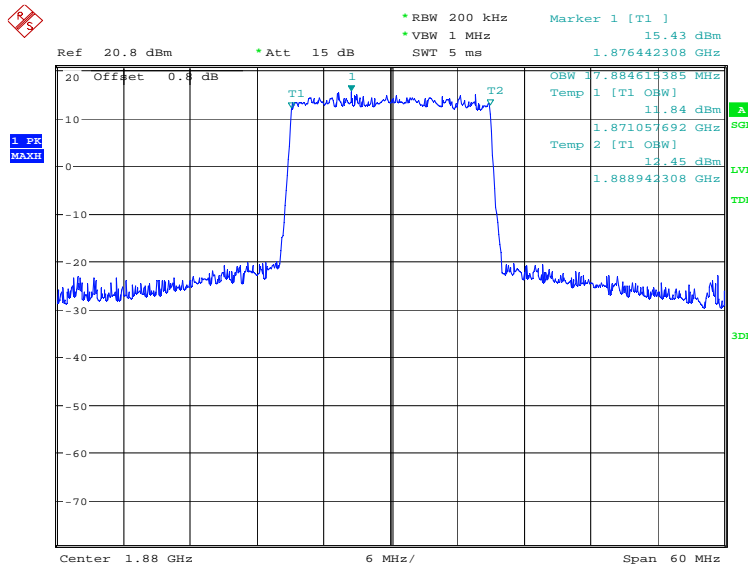
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17884.62	17884.62

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



Date: 29.MAR.2021 09:59:26

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

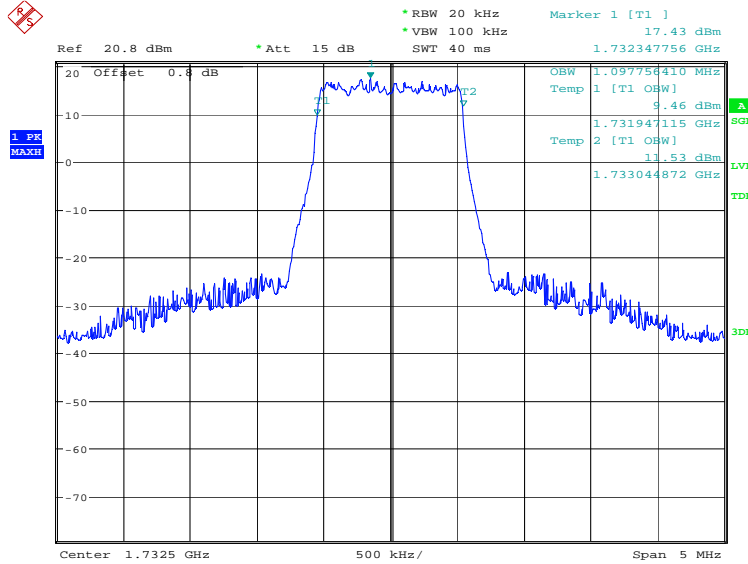


Date: 29.MAR.2021 10:00:05

LTE band 4, 1.4MHz (99%)

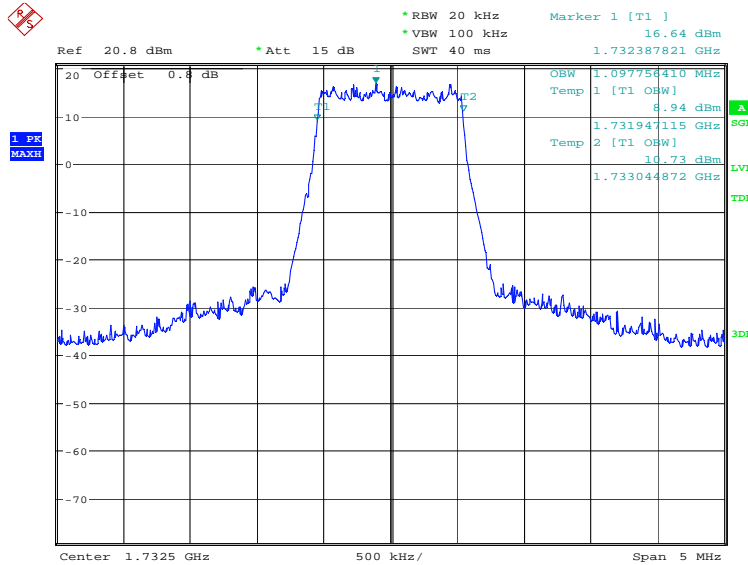
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	1097.76	1097.76

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



Date: 29.MAR.2021 10:01:34

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

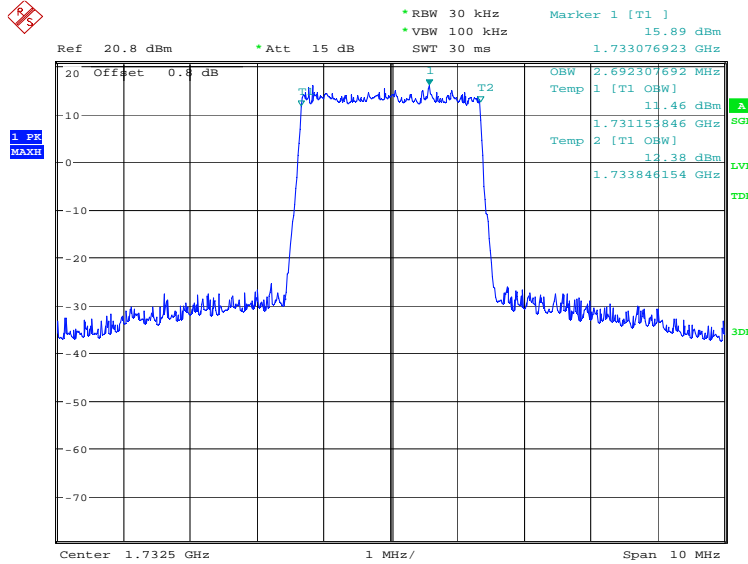


Date: 29.MAR.2021 10:02:13

LTE band 4, 3MHz (99%)

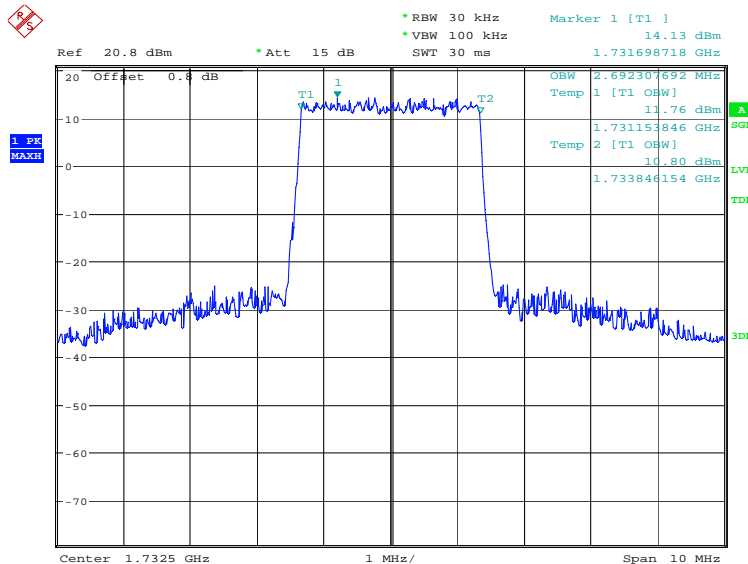
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 29.MAR.2021 10:03:41

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

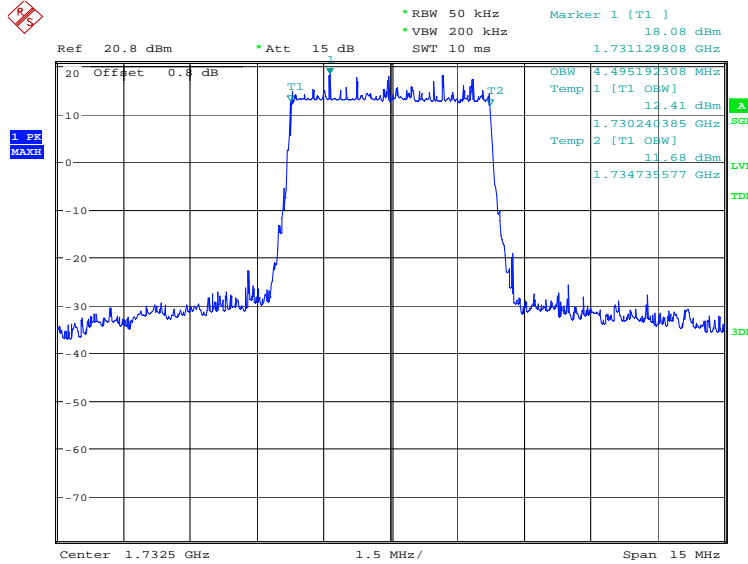


Date: 29.MAR.2021 10:04:19

LTE band 4, 5MHz (99%)

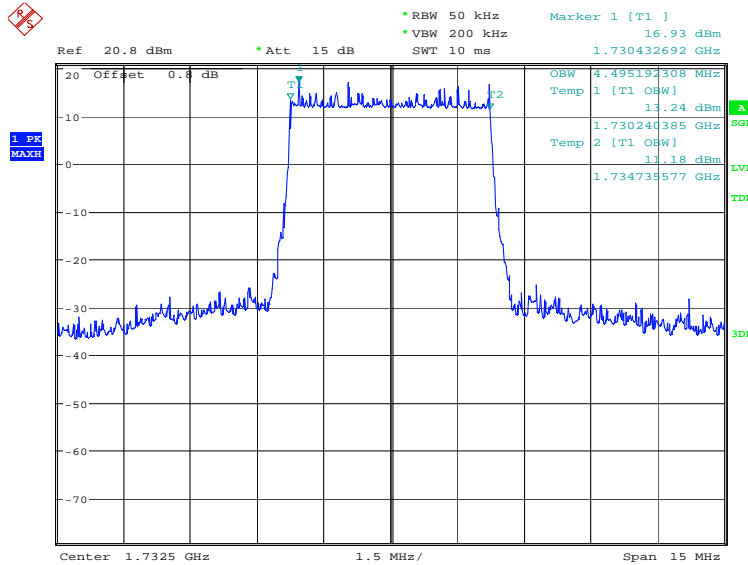
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 29.MAR.2021 10:05:47

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

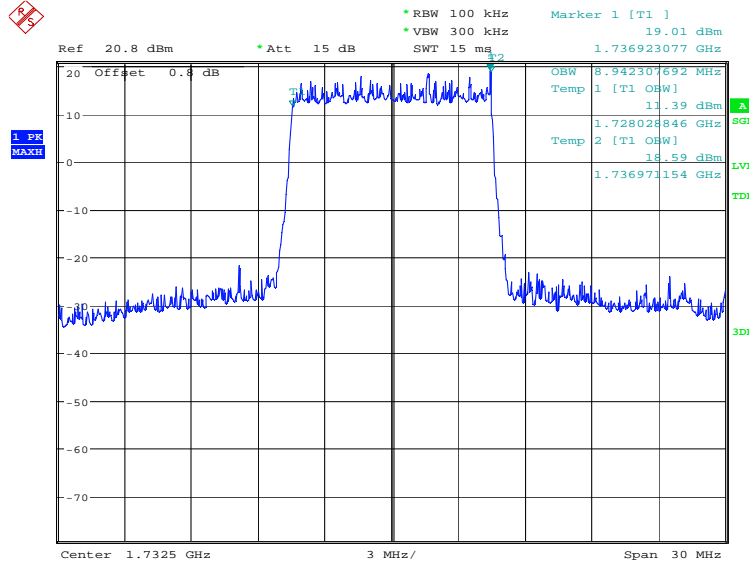


Date: 29.MAR.2021 10:06:25

LTE band 4, 10MHz (99%)

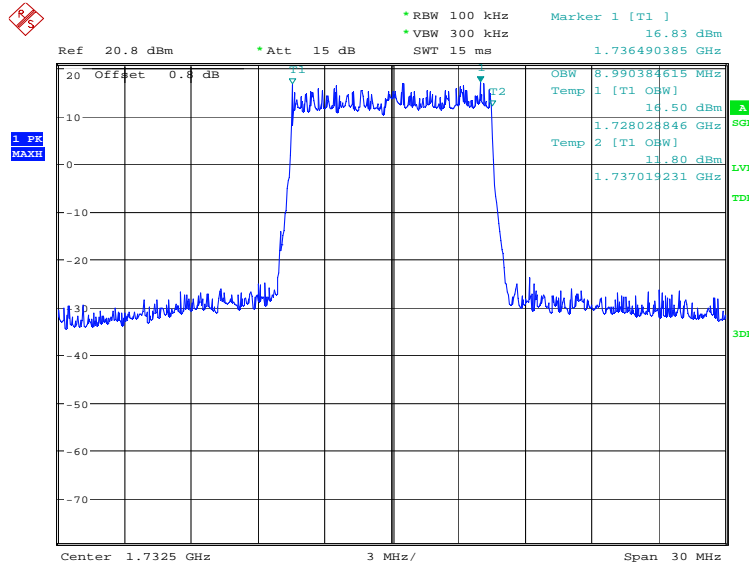
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	8942.31	8990.38

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



Date: 29.MAR.2021 10:07:53

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

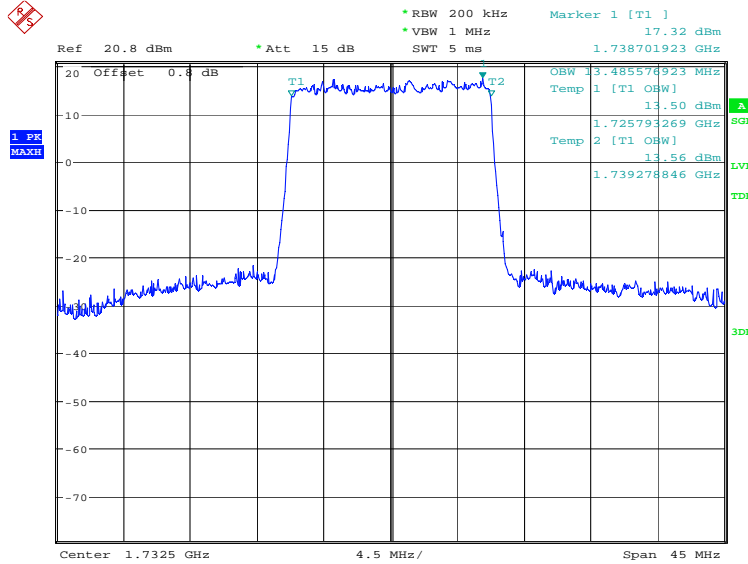


Date: 29.MAR.2021 10:08:32

LTE band 4, 15MHz (99%)

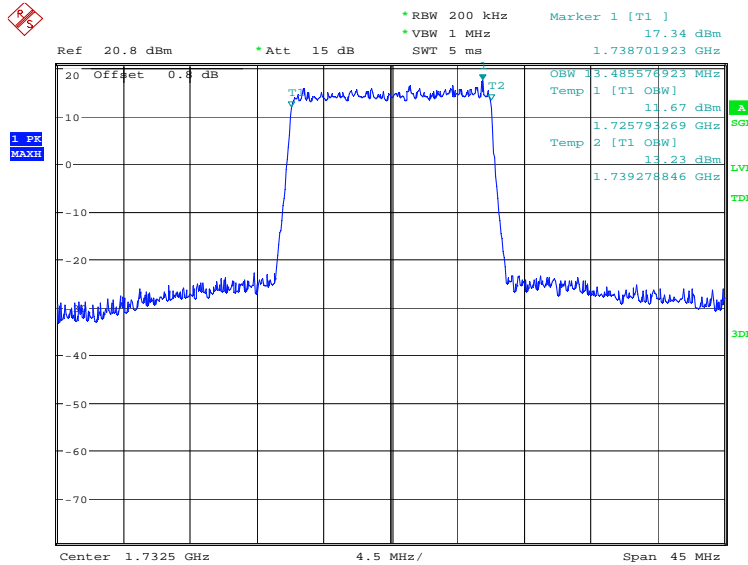
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 29.MAR.2021 10:10:00

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

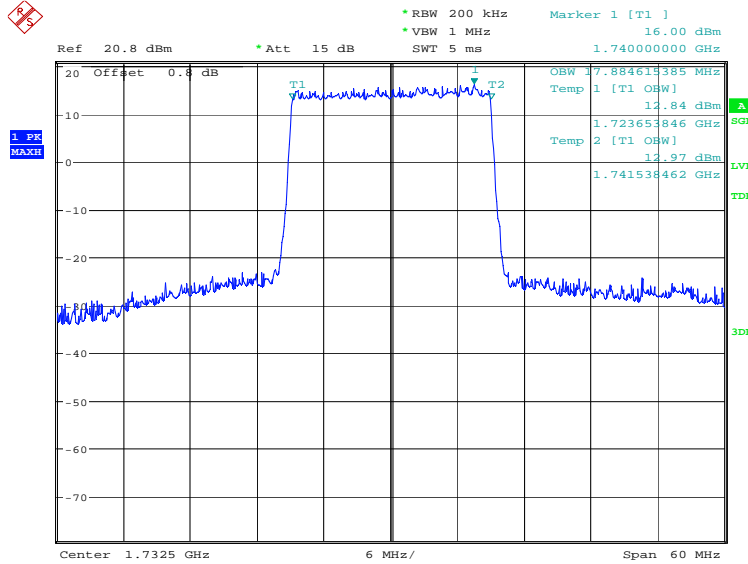


Date: 29.MAR.2021 10:10:39

LTE band 4, 20MHz (99%)

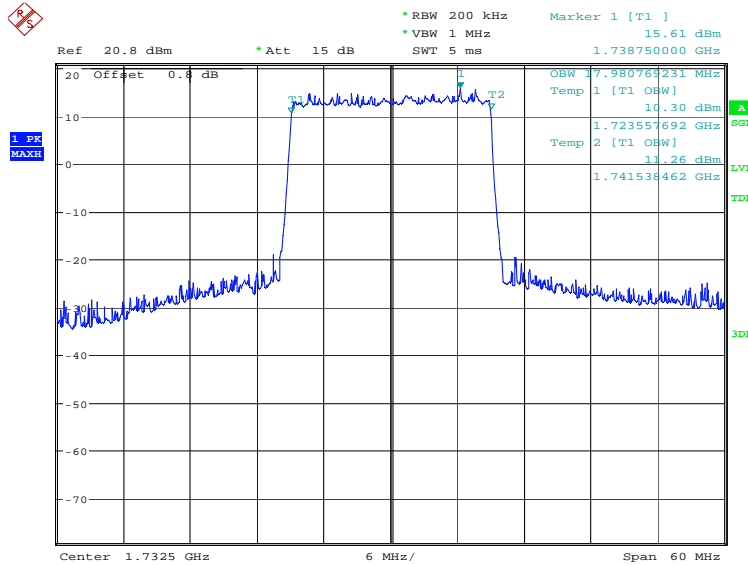
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	17884.62	17980.77

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



Date: 29.MAR.2021 10:12:07

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

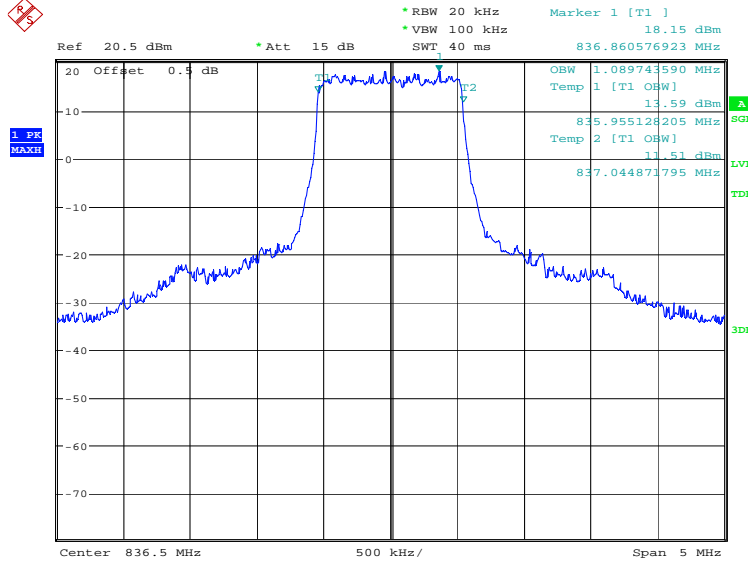


Date: 29.MAR.2021 10:12:45

LTE band 5, 1.4MHz (99%)

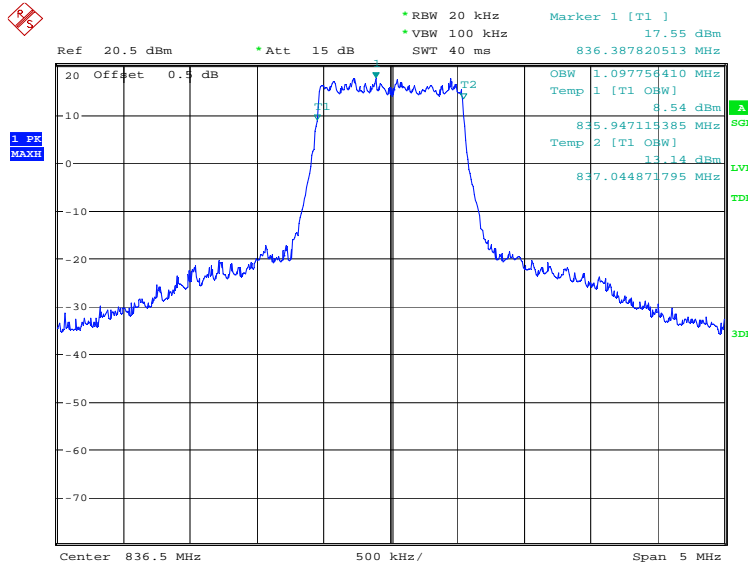
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 29.MAR.2021 11:57:59

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

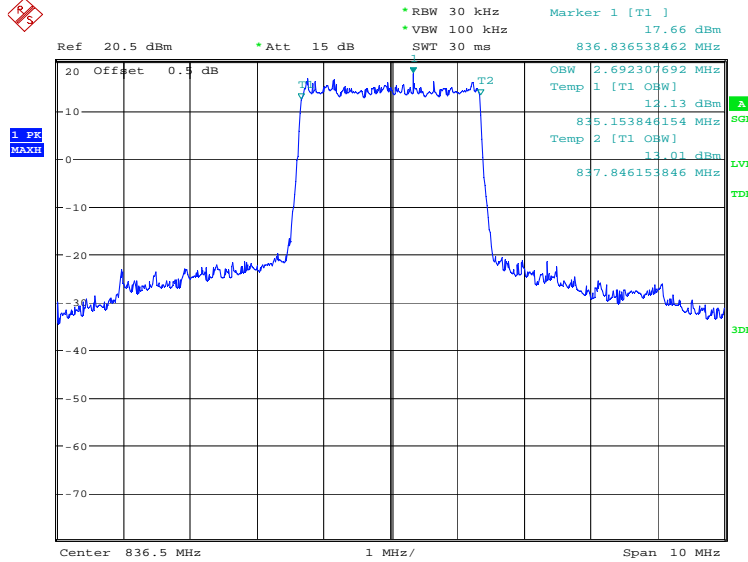


Date: 29.MAR.2021 11:58:39

LTE band 5, 3MHz (99%)

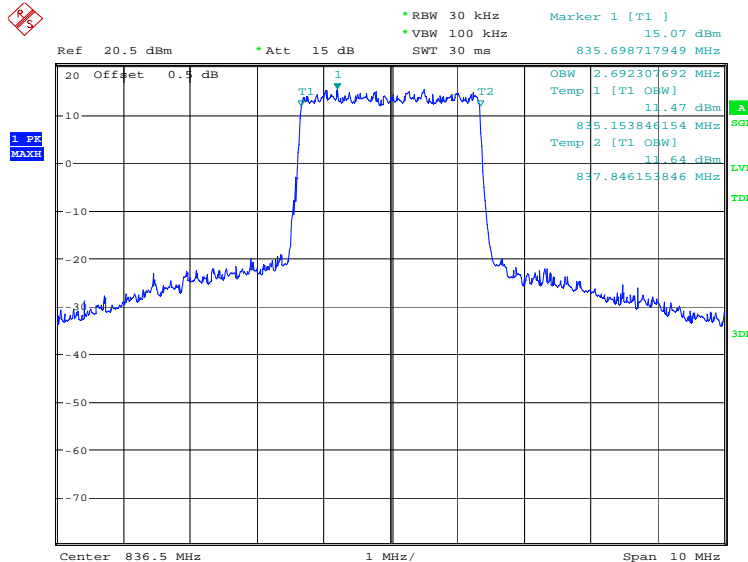
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 29.MAR.2021 12:00:07

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

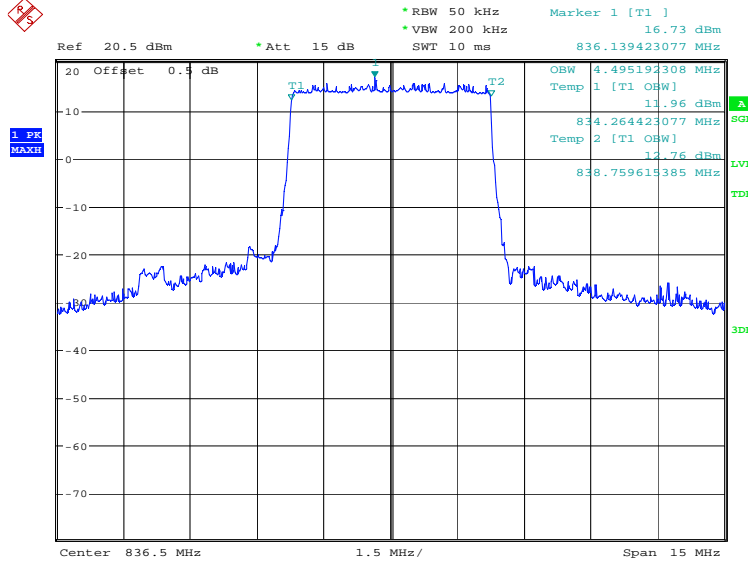


Date: 29.MAR.2021 12:00:46

LTE band 5, 5MHz (99%)

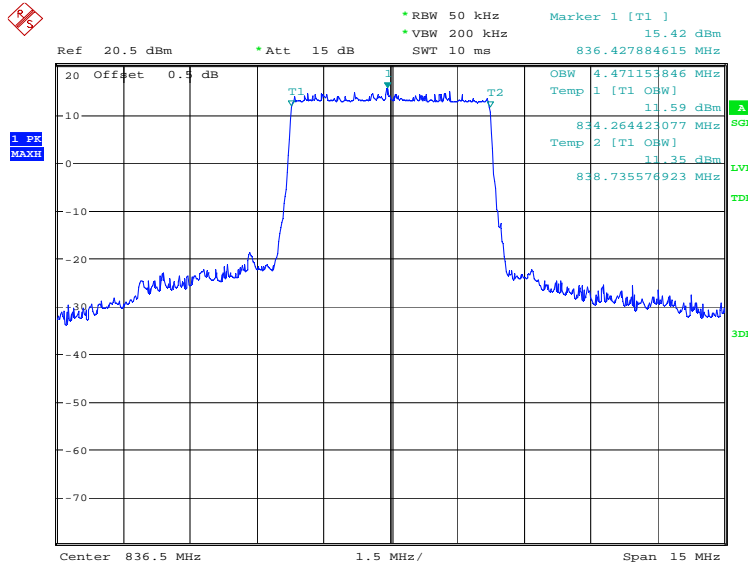
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4471.15

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



Date: 29.MAR.2021 12:02:14

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

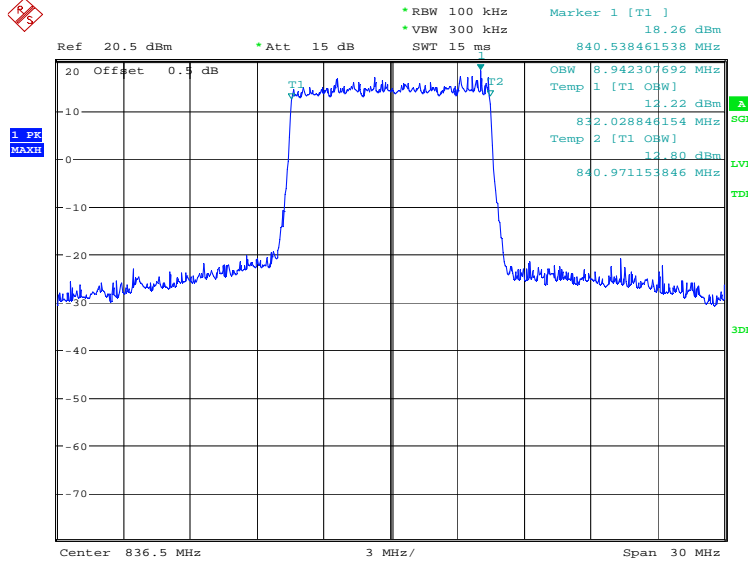


Date: 29.MAR.2021 12:02:53

LTE band 5, 10MHz (99%)

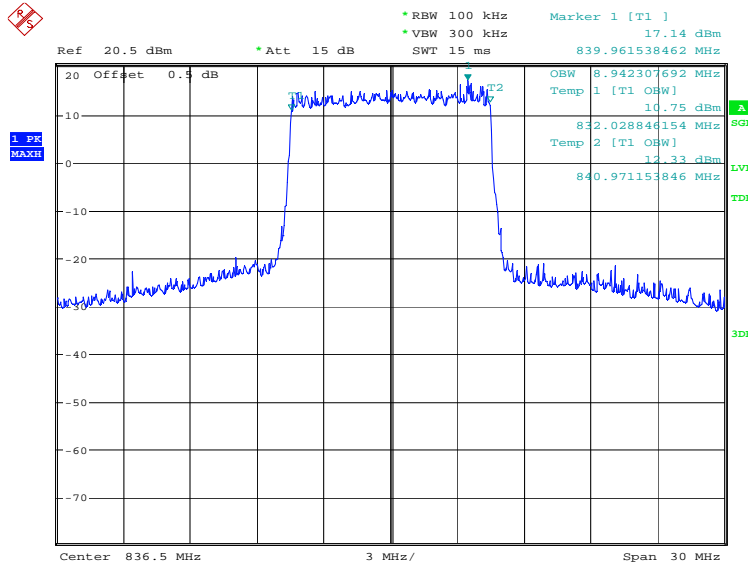
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 29.MAR.2021 12:04:21

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

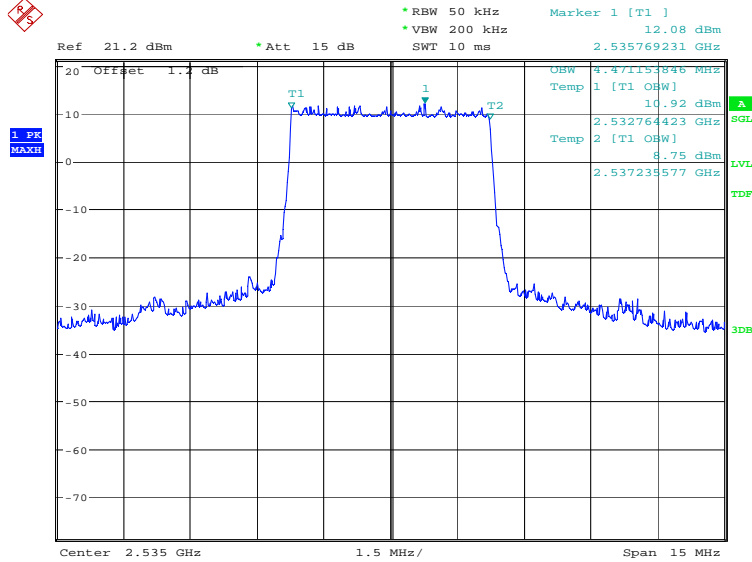


Date: 29.MAR.2021 12:05:00

LTE band 7, 5MHz (99%)

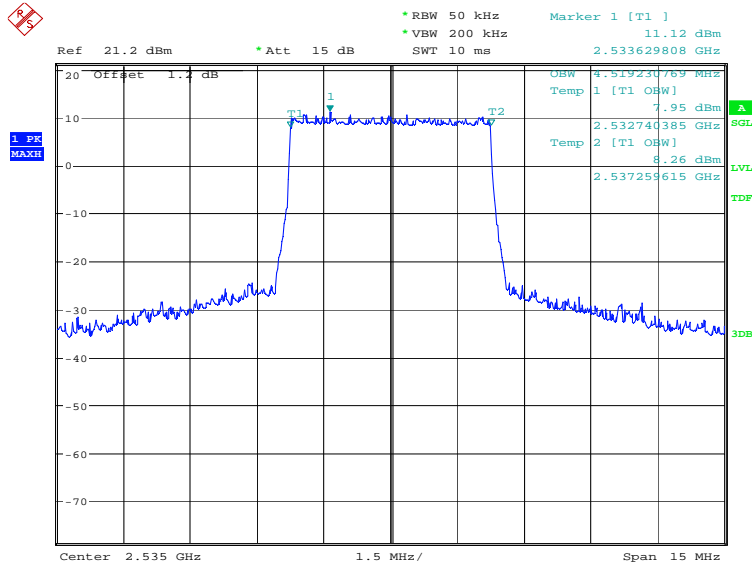
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4471.15	4519.23

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



Date: 9.MAR.2021 09:45:03

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

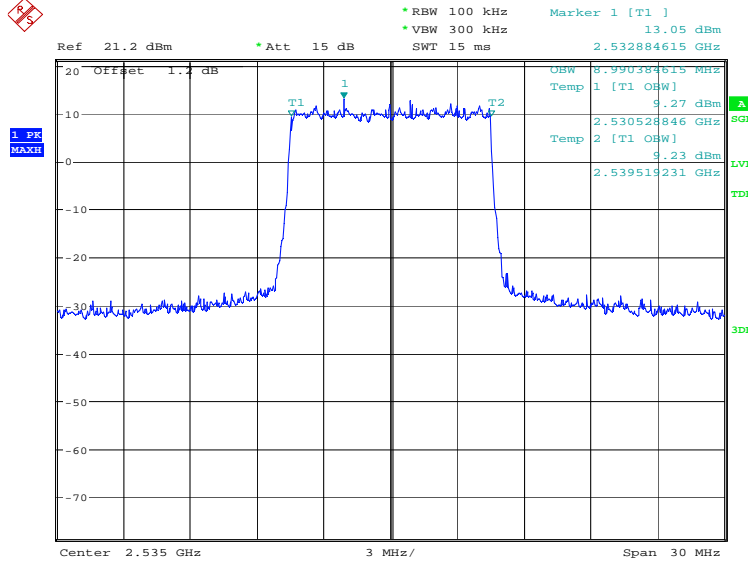


Date: 9.MAR.2021 09:45:42

LTE band 7, 10MHz (99%)

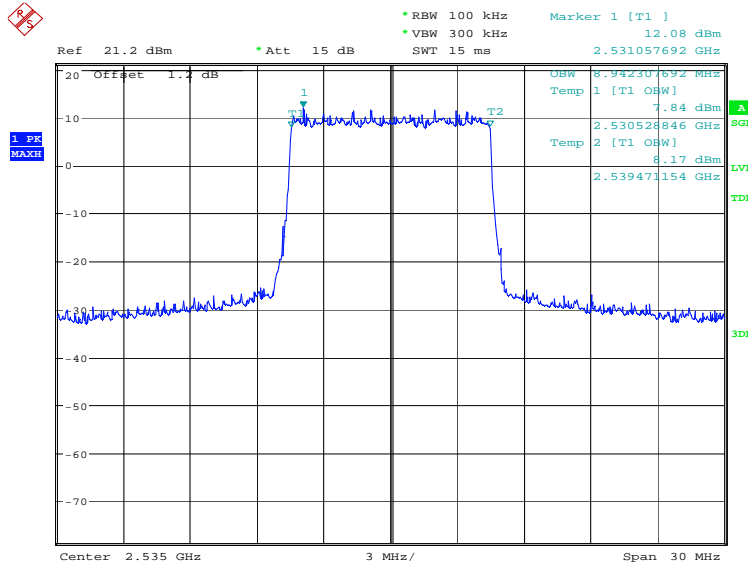
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 9.MAR.2021 09:47:11

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

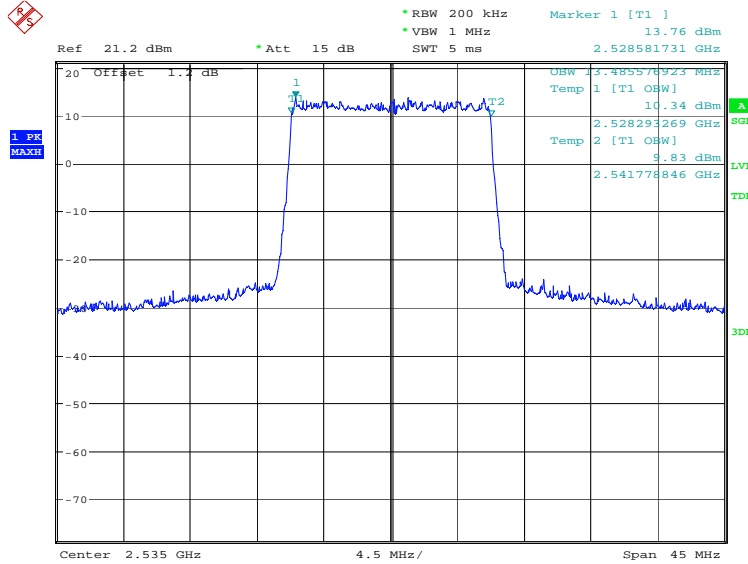


Date: 9.MAR.2021 09:47:50

LTE band 7, 15MHz (99%)

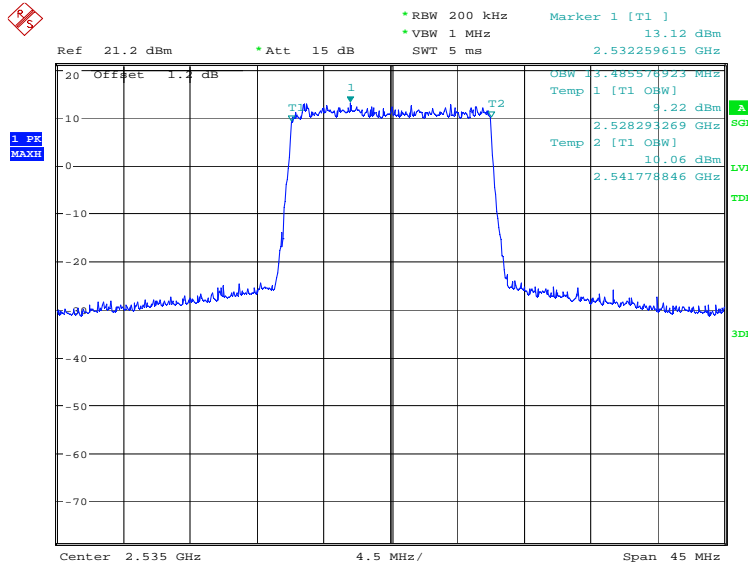
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 9.MAR.2021 09:49:19

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

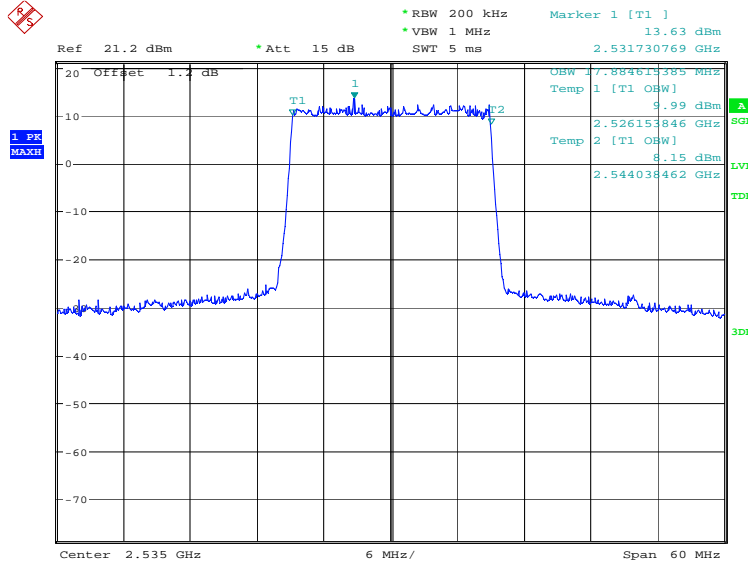


Date: 9.MAR.2021 09:49:58

LTE band 7, 20MHz (99%)

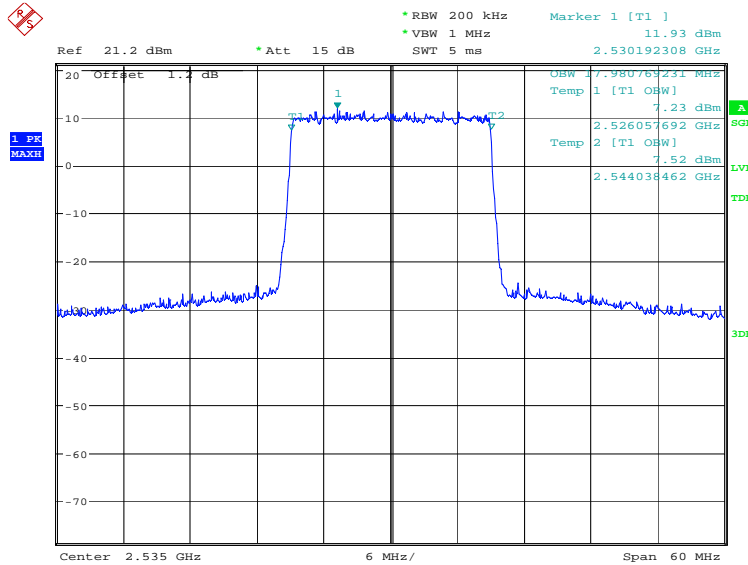
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17884.62	17980.77

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



Date: 9.MAR.2021 09:51:27

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

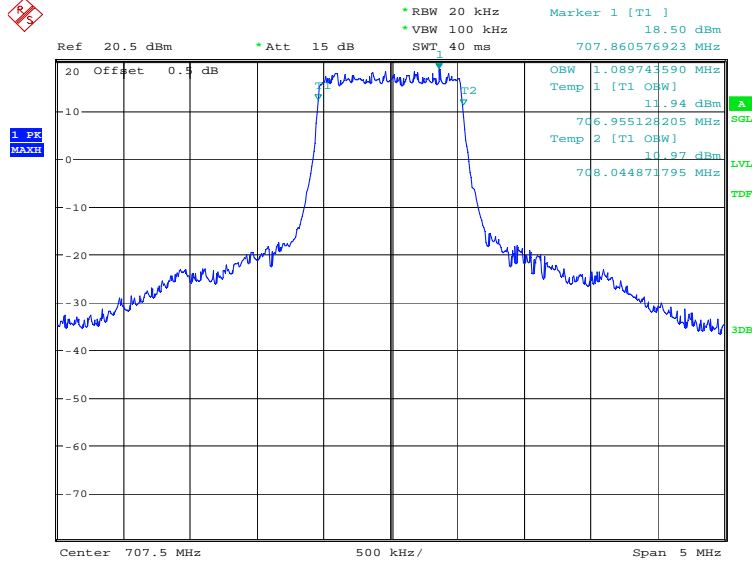


Date: 9.MAR.2021 09:52:06

LTE band 12, 1.4MHz (99%)

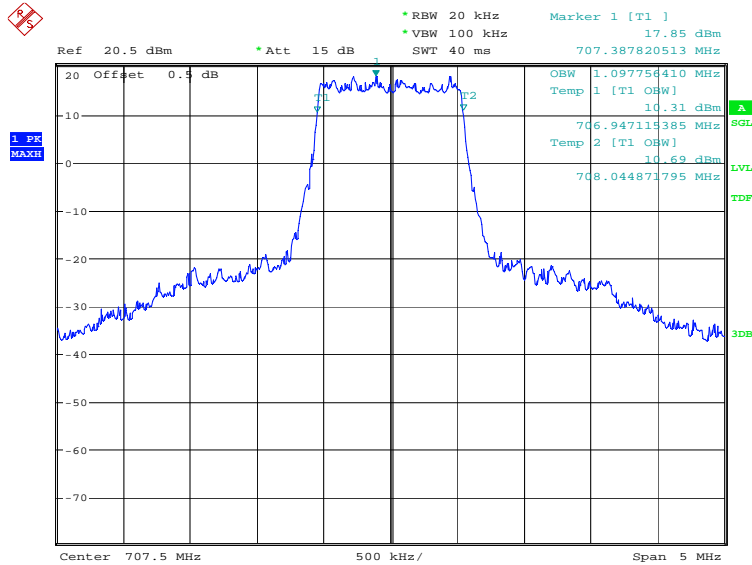
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 8.MAR.2021 17:45:55

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

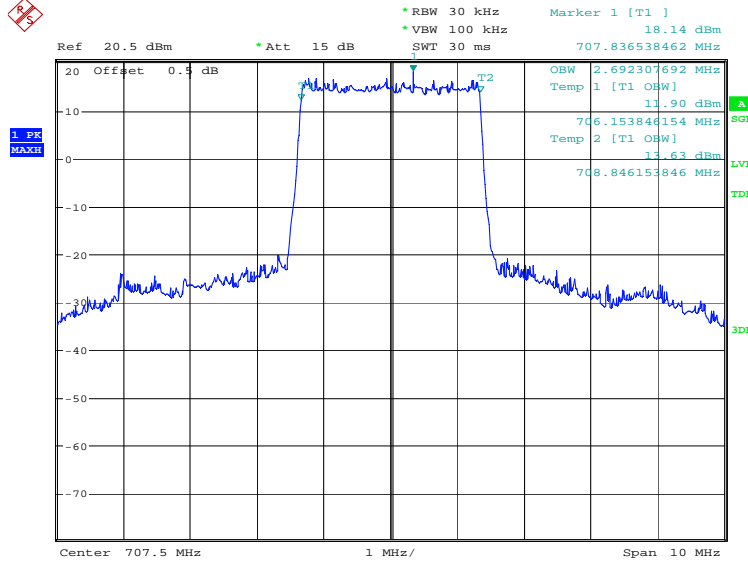


Date: 8.MAR.2021 17:46:34

LTE band 12, 3MHz (99%)

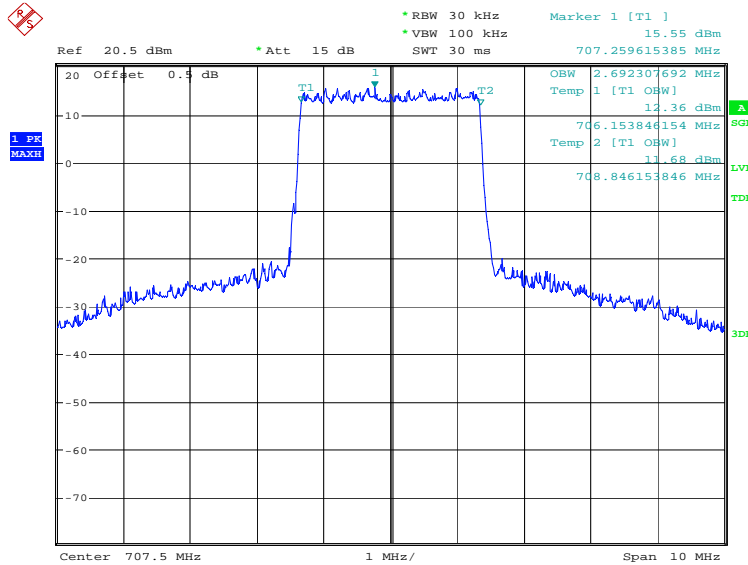
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 8.MAR.2021 17:47:15

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

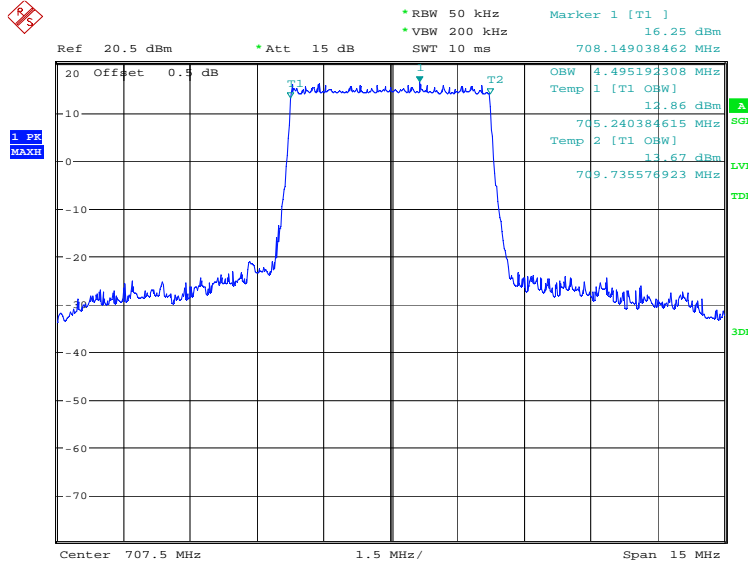


Date: 8.MAR.2021 17:47:54

LTE band 12, 5MHz (99%)

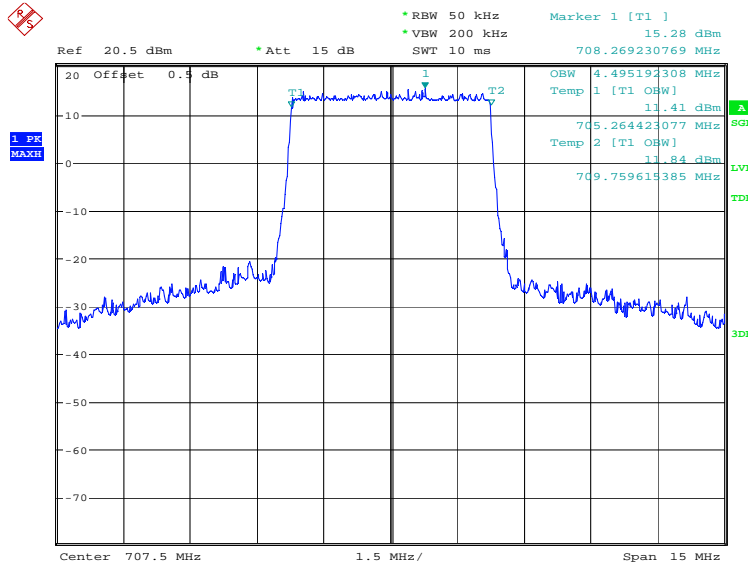
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 8.MAR.2021 17:48:35

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

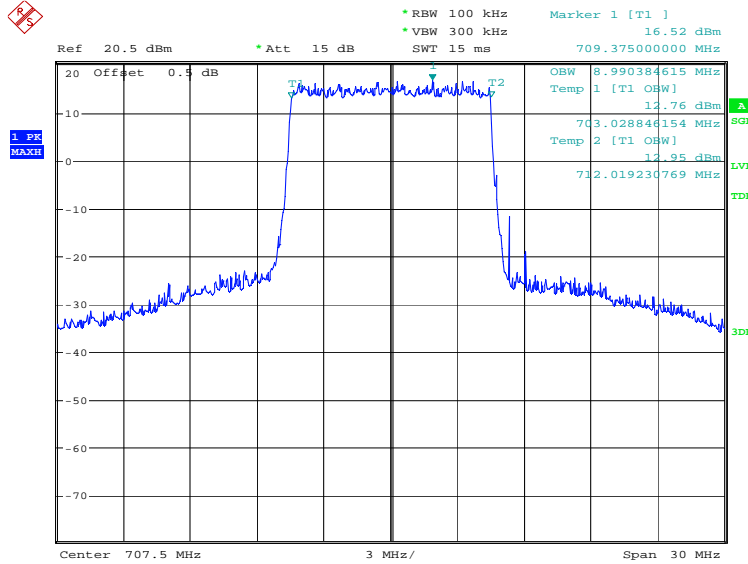


Date: 8.MAR.2021 17:49:14

LTE band 12, 10MHz (99%)

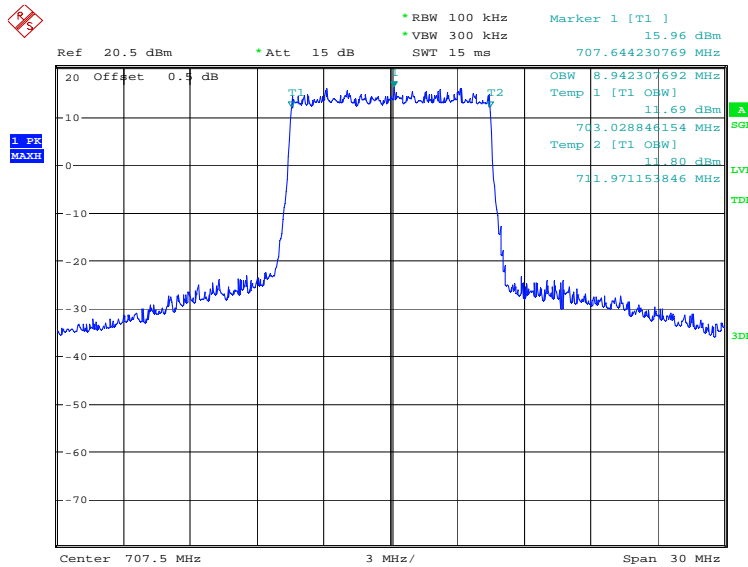
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 8.MAR.2021 17:49:55

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

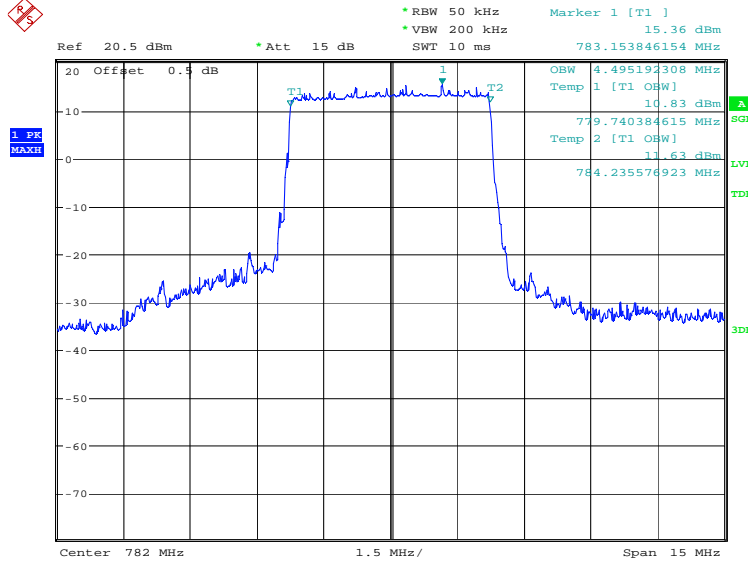


Date: 8.MAR.2021 17:50:35

LTE band 13, 5MHz (99%)

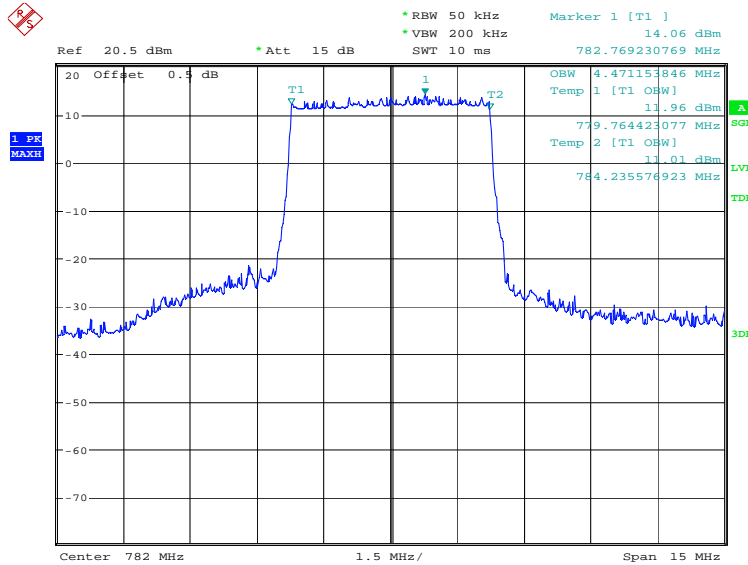
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 8.MAR.2021 17:51:17

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

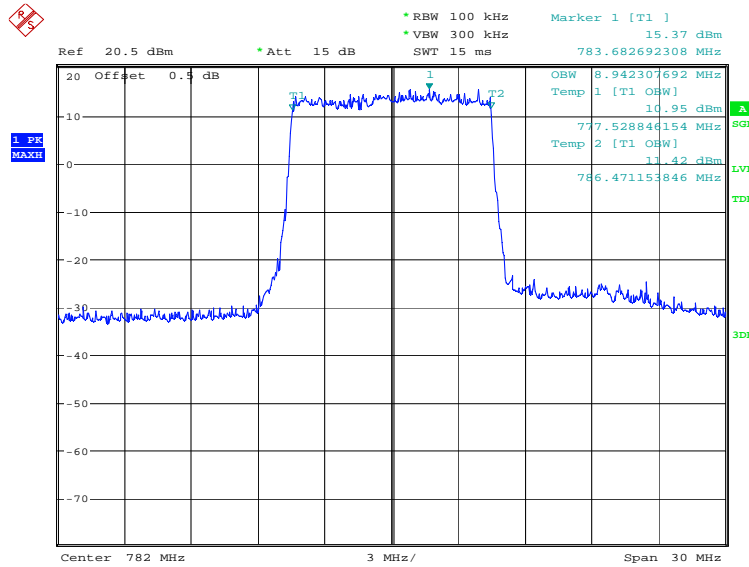


Date: 8.MAR.2021 17:51:57

LTE band 13, 10MHz (99%)

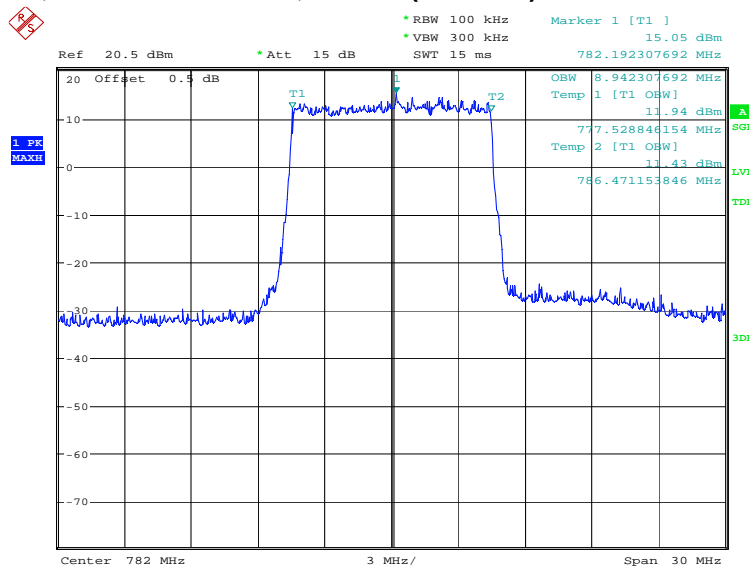
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 8.MAR.2021 17:52:38

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

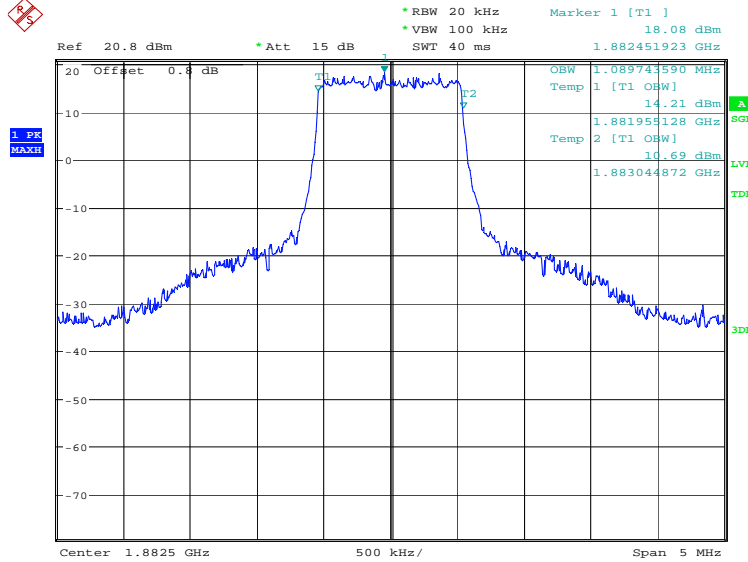


Date: 8.MAR.2021 17:53:17

LTE band 25, 1.4MHz (99%)

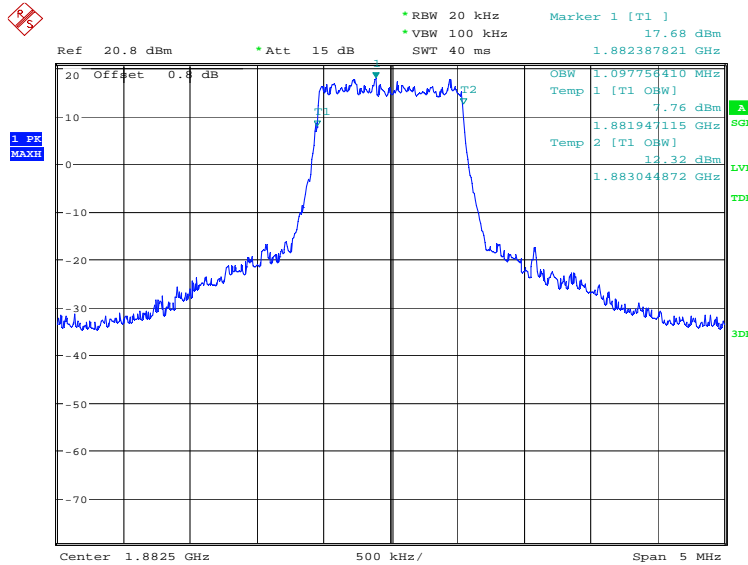
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 8.MAR.2021 16:26:20

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

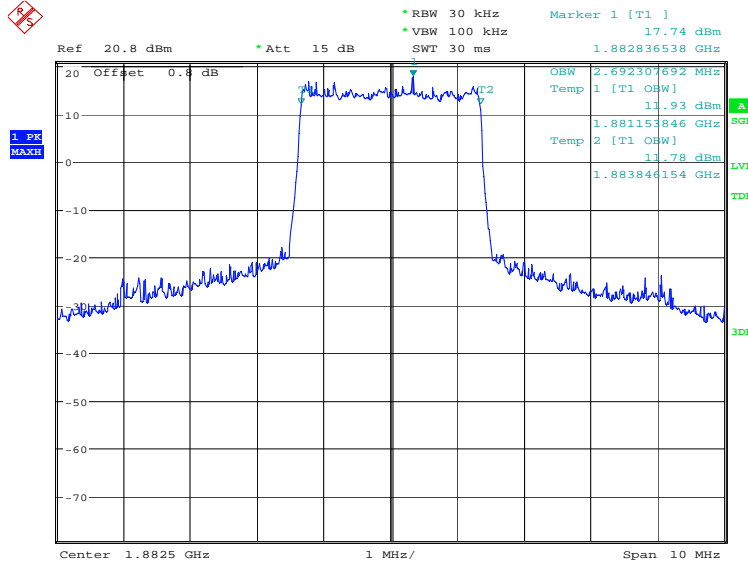


Date: 8.MAR.2021 16:26:59

LTE band 25, 3MHz (99%)

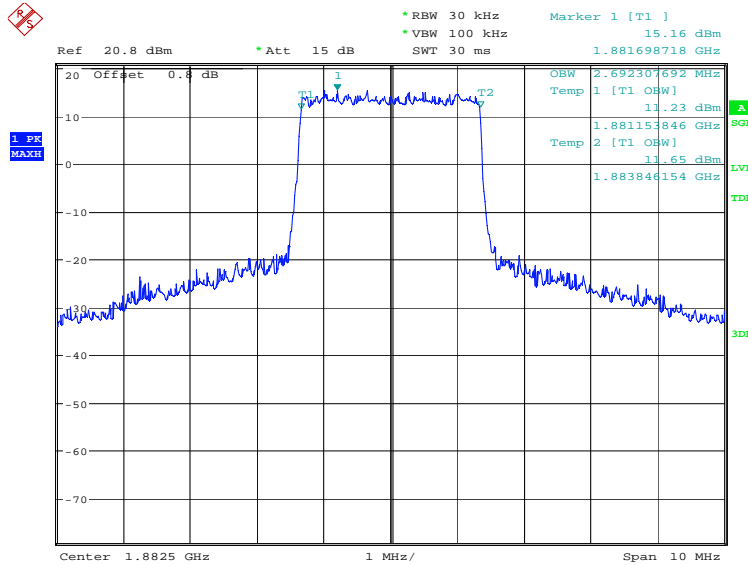
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 8.MAR.2021 16:27:40

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

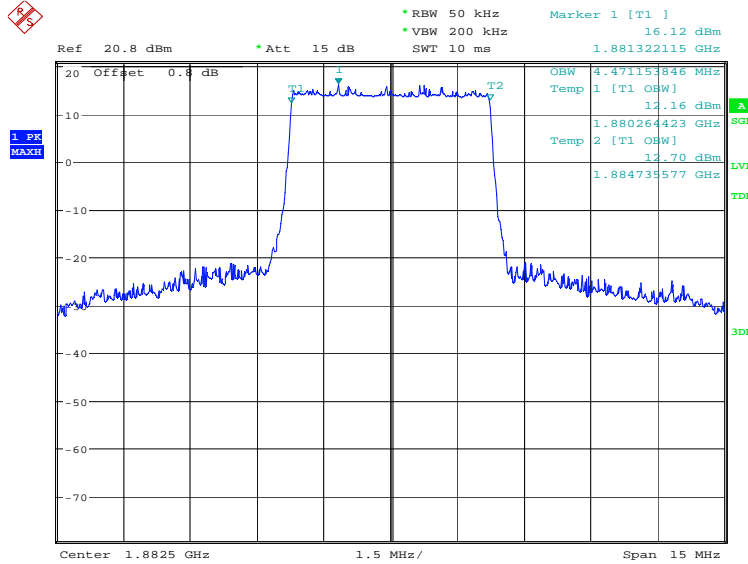


Date: 8.MAR.2021 16:28:19

LTE band 25, 5MHz (99%)

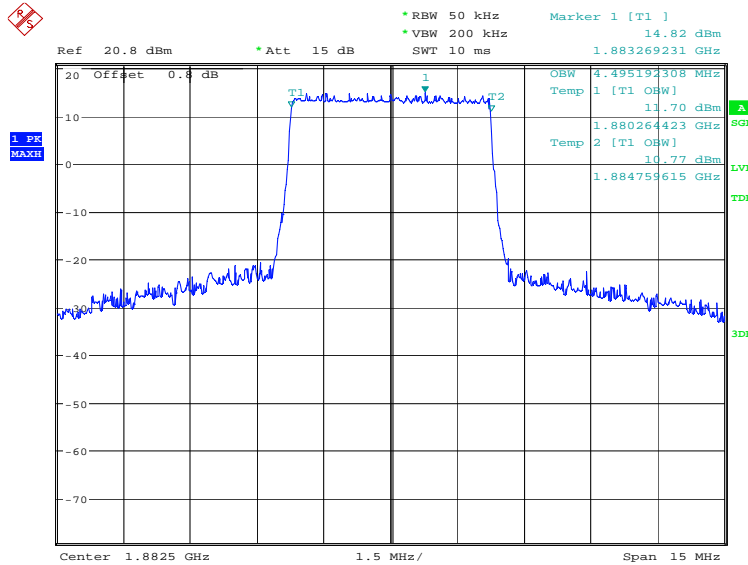
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4471.15	4495.19

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



Date: 8.MAR.2021 16:29:00

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

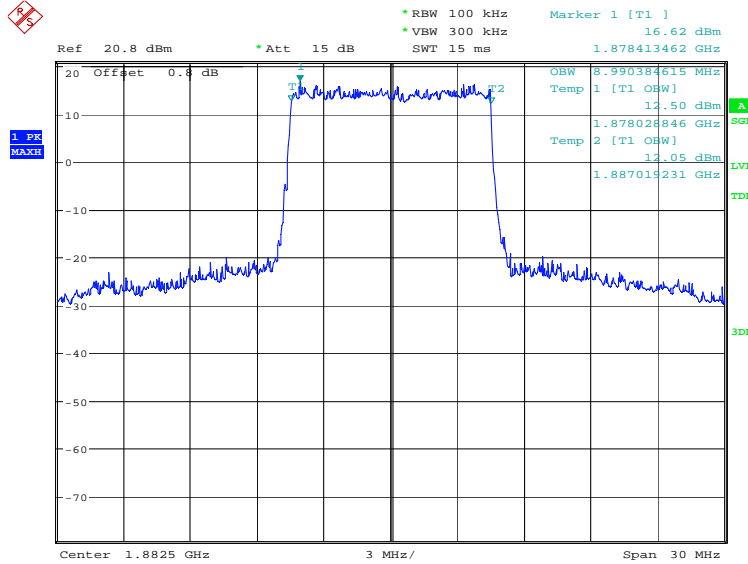


Date: 8.MAR.2021 16:29:39

LTE band 25, 10MHz (99%)

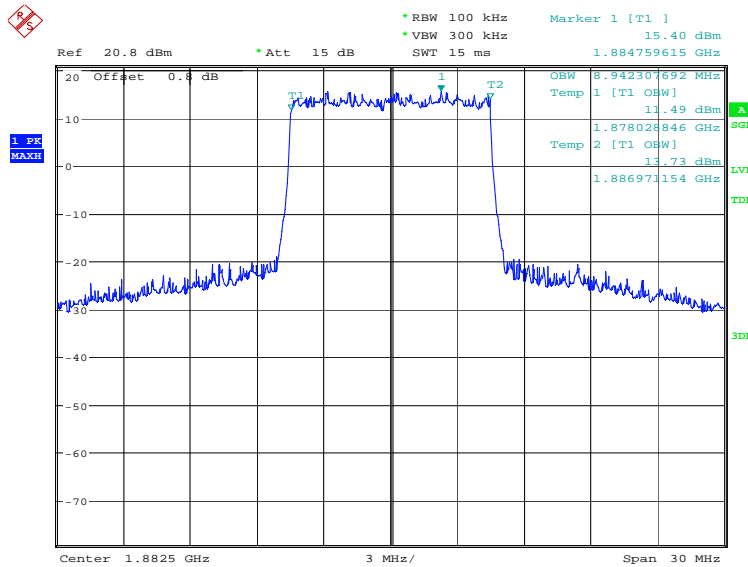
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8990.38	8942.31

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



Date: 8.MAR.2021 16:30:20

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

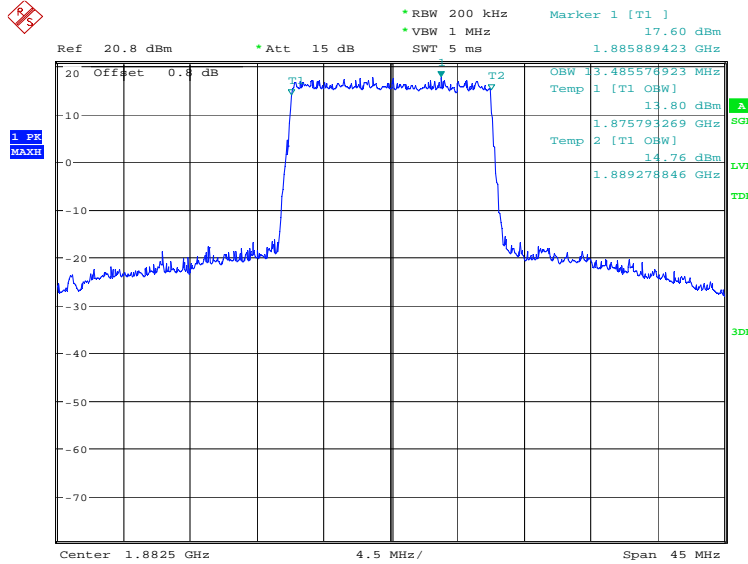


Date: 8.MAR.2021 16:30:59

LTE band 25, 15MHz (99%)

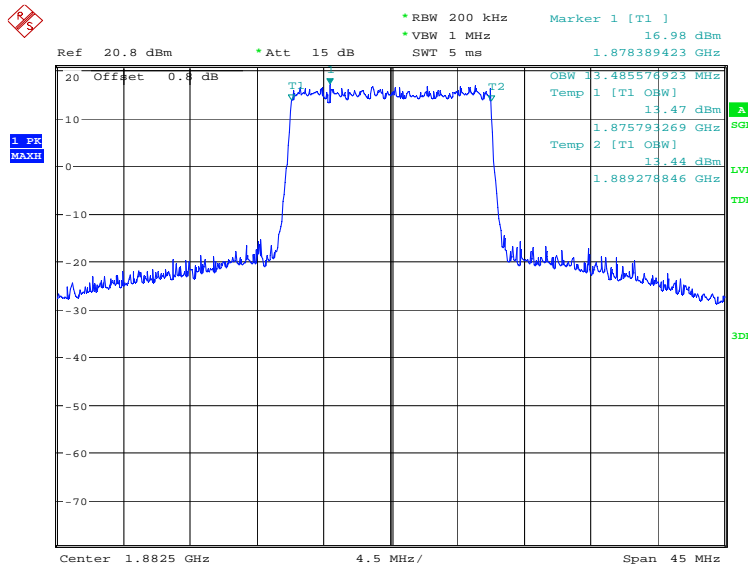
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 8.MAR.2021 16:31:40

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

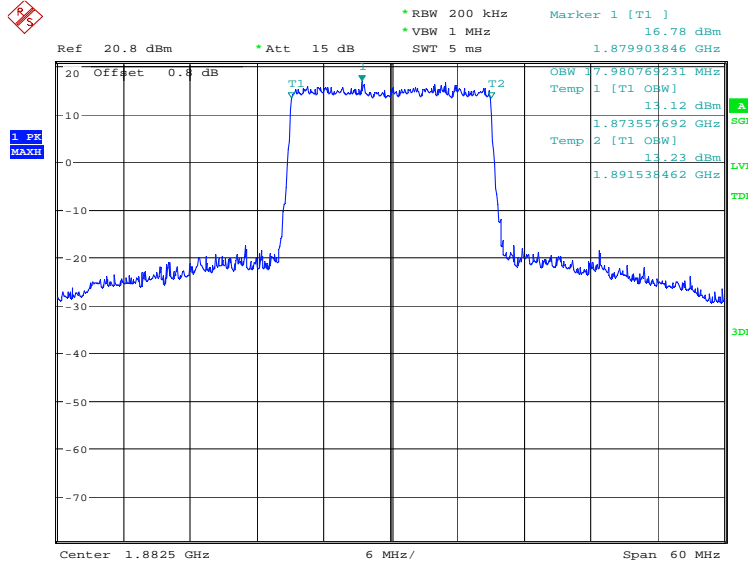


Date: 8.MAR.2021 16:32:20

LTE band 25, 20MHz (99%)

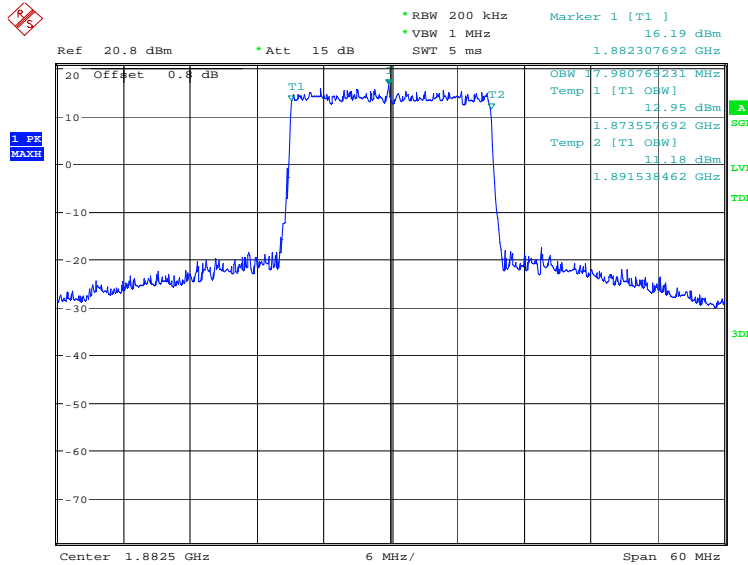
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 8.MAR.2021 16:33:48

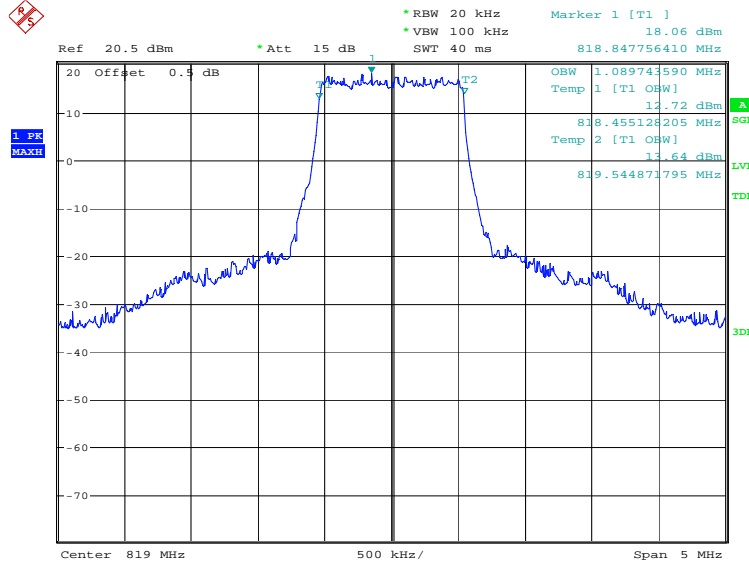
LTE band 25, 20MHz Bandwidth, 16QAM (99% BW)



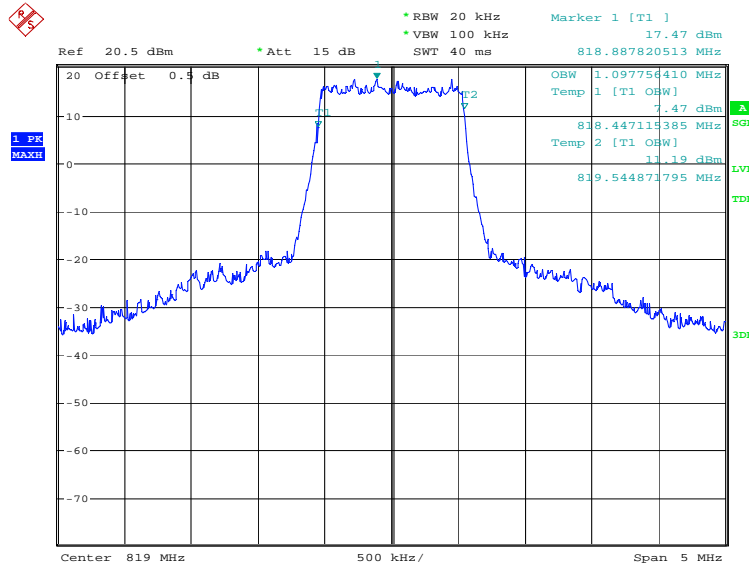
Date: 8.MAR.2021 16:34:28

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

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

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


Date: 8.MAR.2021 18:05:18

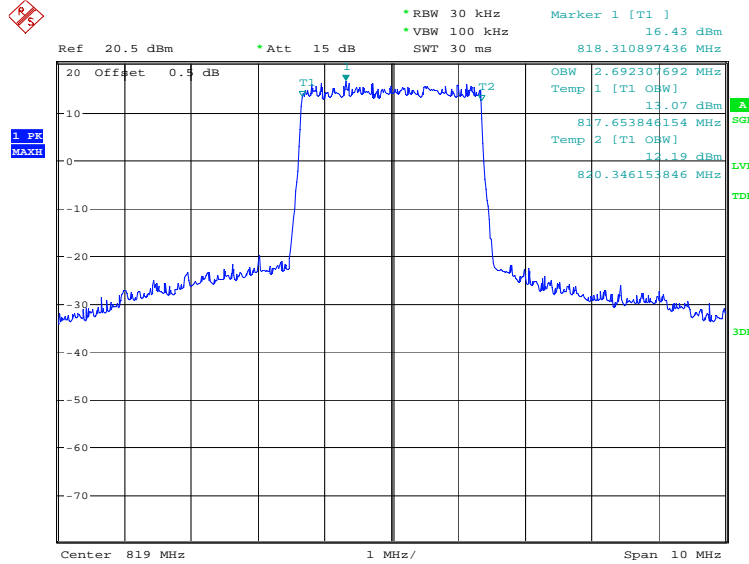
LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (99% BW)


Date: 8.MAR.2021 18:05:57

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

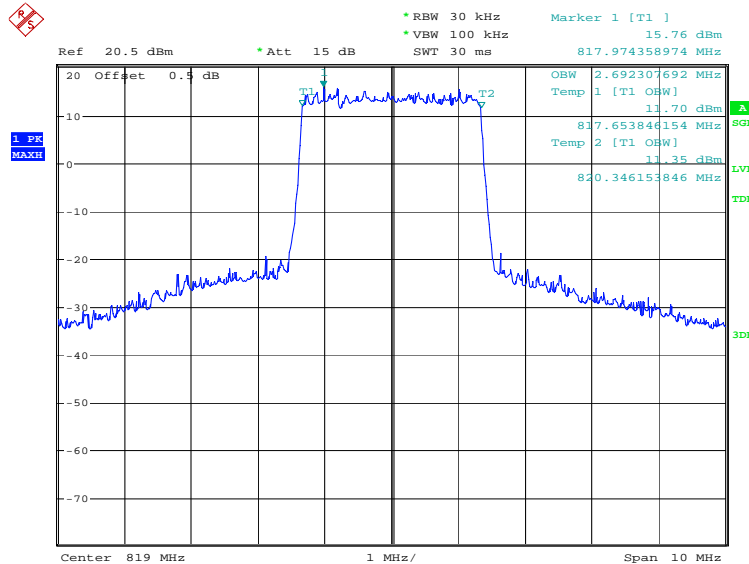
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 8.MAR.2021 18:07:26

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

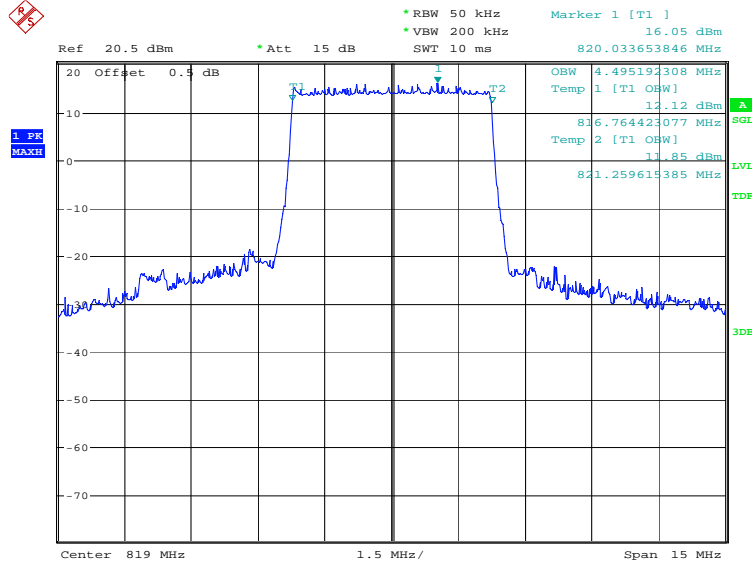


Date: 8.MAR.2021 18:08:05

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

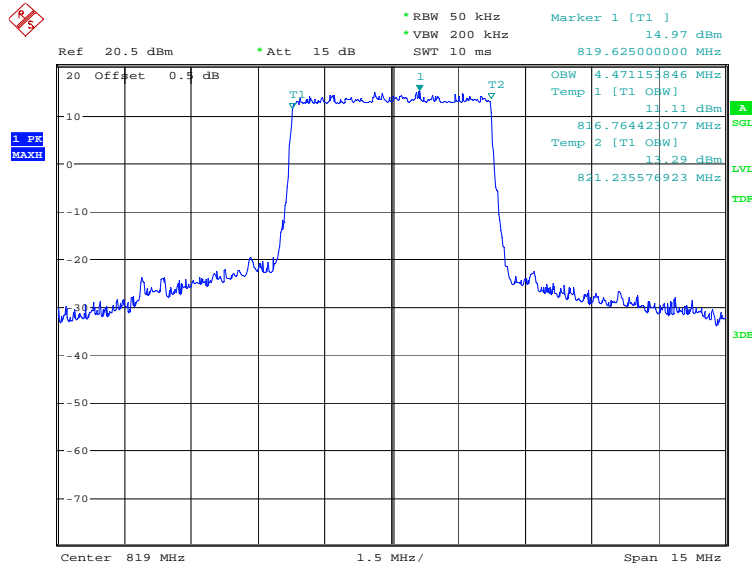
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4471.15

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



Date: 8.MAR.2021 18:09:34

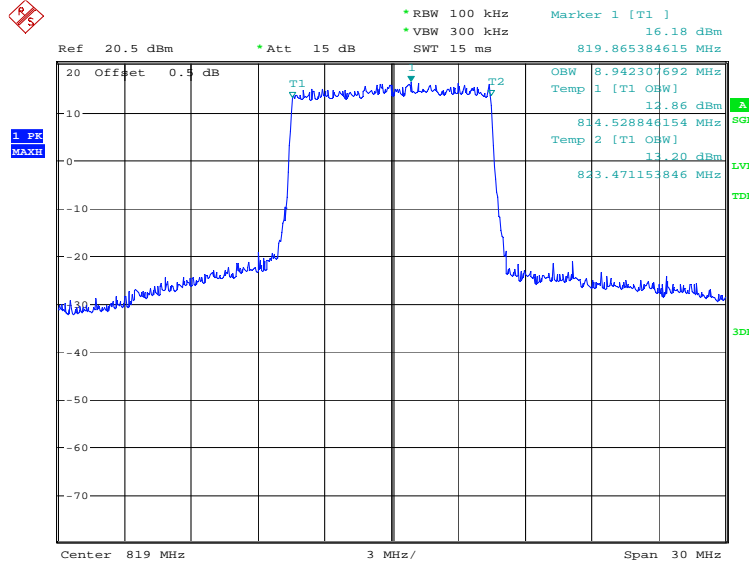
LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (99% BW)



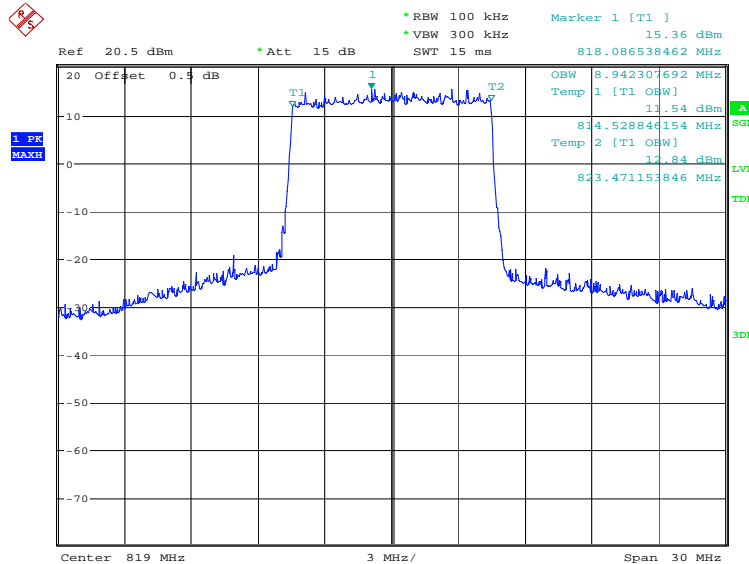
Date: 8.MAR.2021 18:10:13

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

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

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


Date: 8.MAR.2021 18:11:42

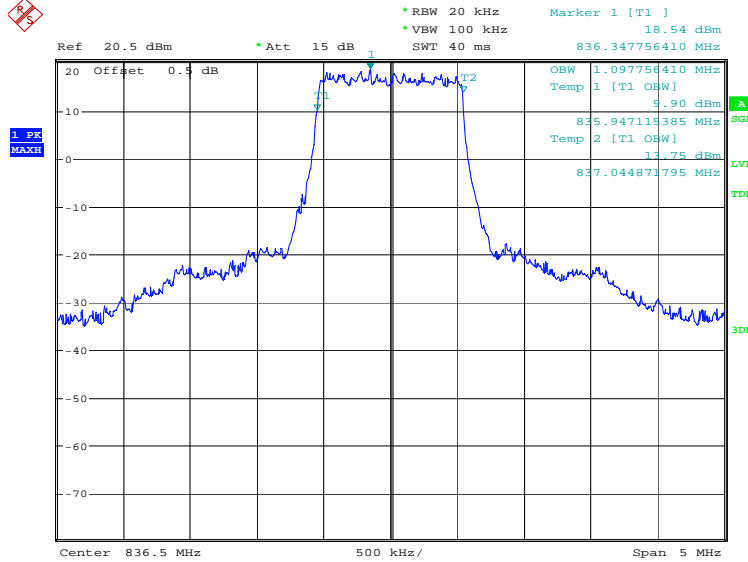
LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (99% BW)


Date: 8.MAR.2021 18:12:22

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

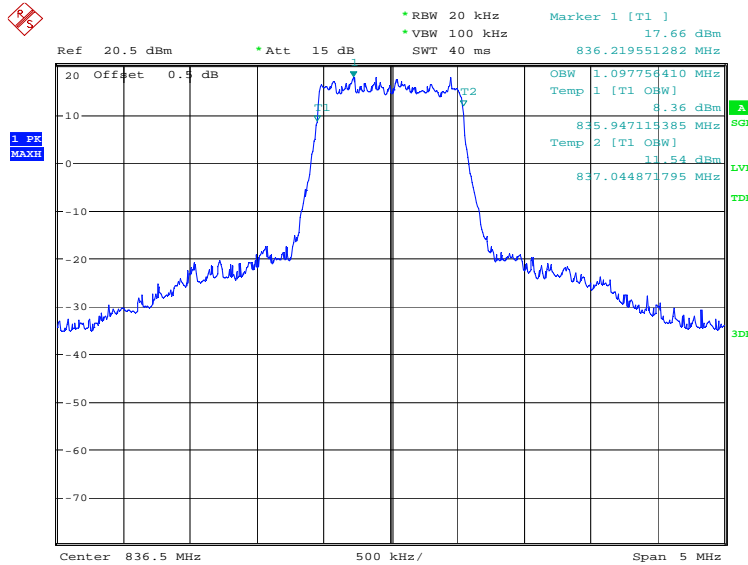
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1097.76	1097.76

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



Date: 8.MAR.2021 17:54:46

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

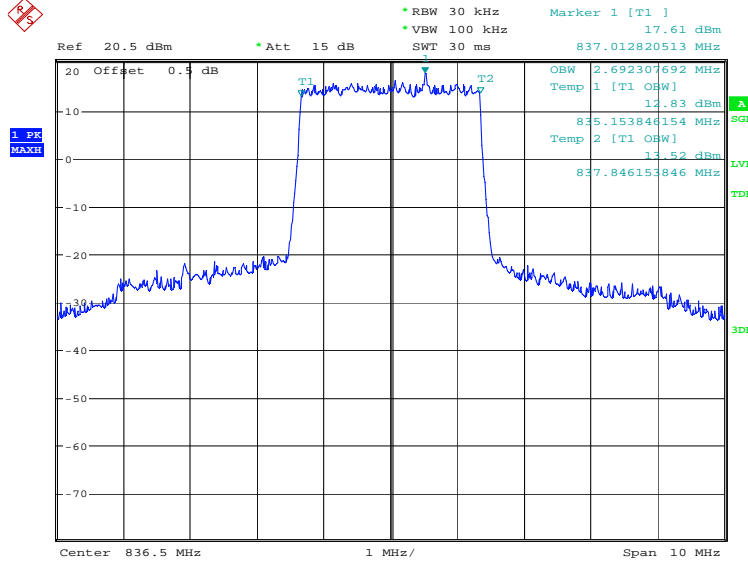


Date: 8.MAR.2021 17:55:26

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

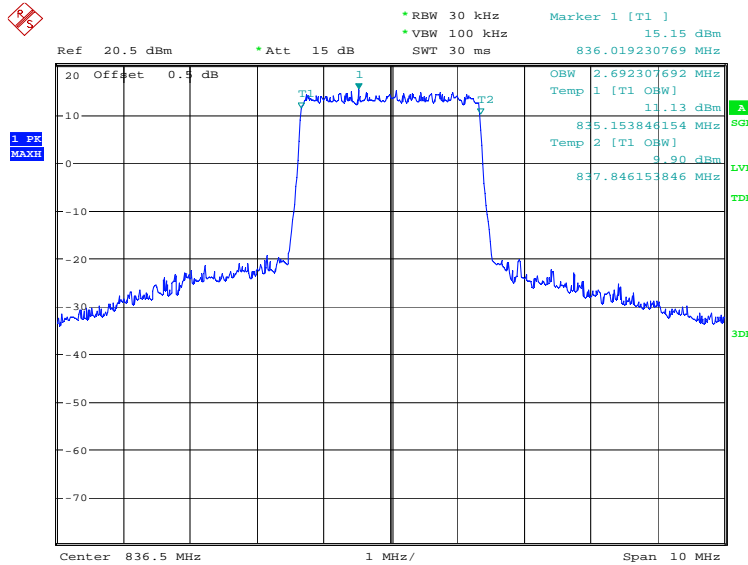
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 8.MAR.2021 17:56:55

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

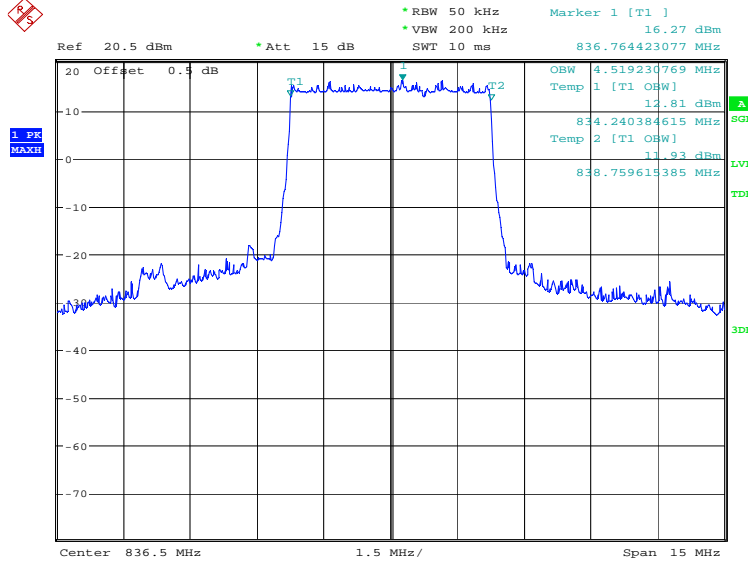


Date: 8.MAR.2021 17:57:34

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

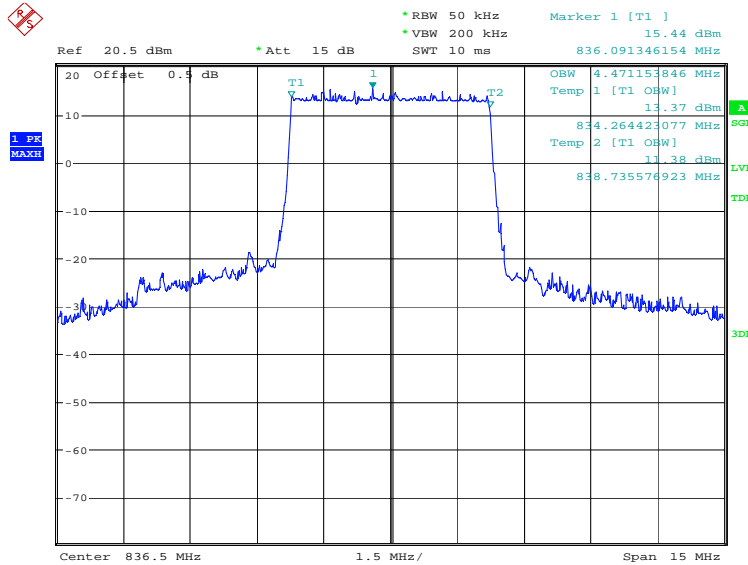
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4519.23	4471.15

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



Date: 8.MAR.2021 17:59:03

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

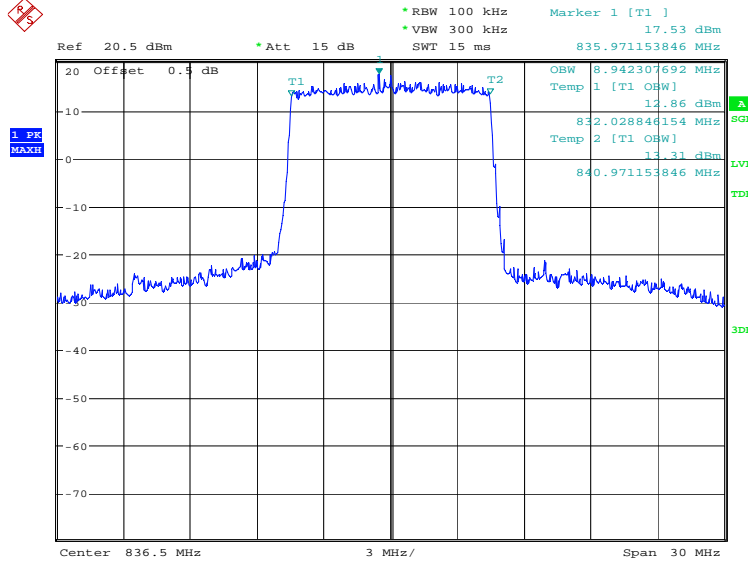


Date: 8.MAR.2021 17:59:42

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

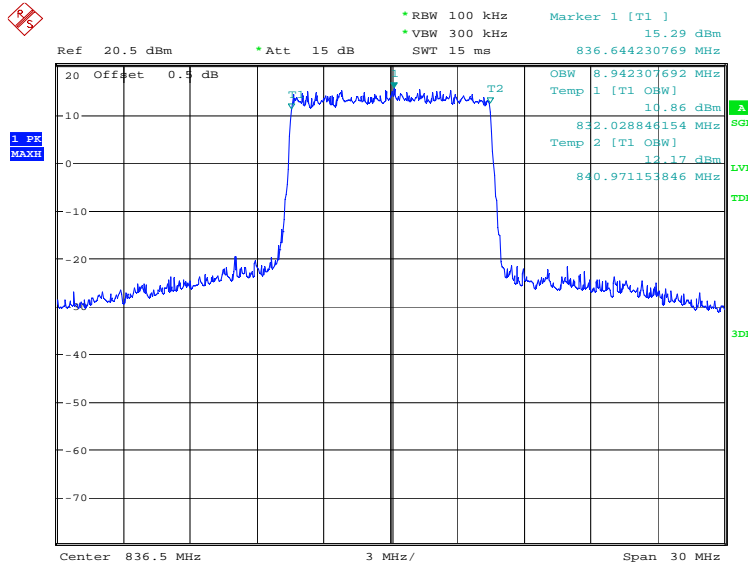
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 8.MAR.2021 18:01:11

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

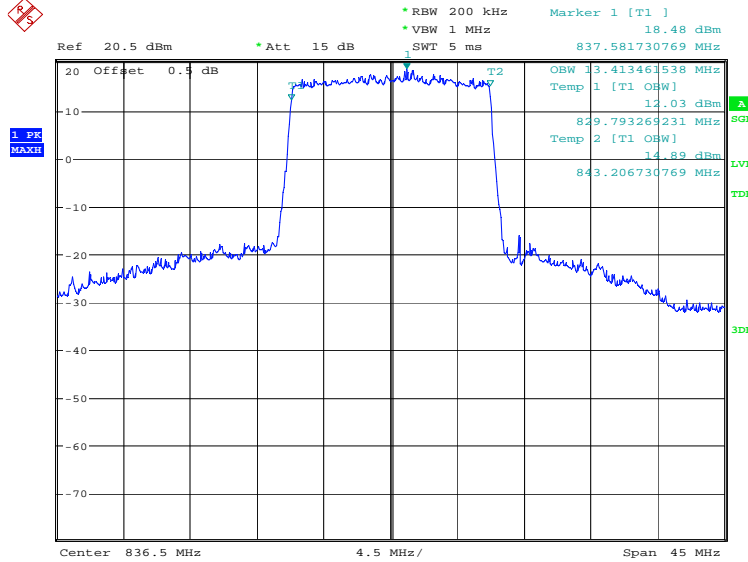


Date: 8.MAR.2021 18:01:50

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

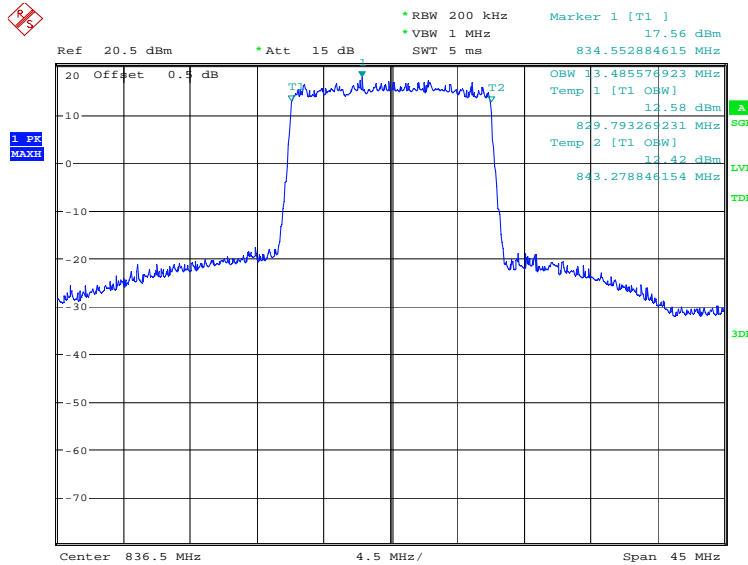
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13413.46	13485.58

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



Date: 8.MAR.2021 18:03:19

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

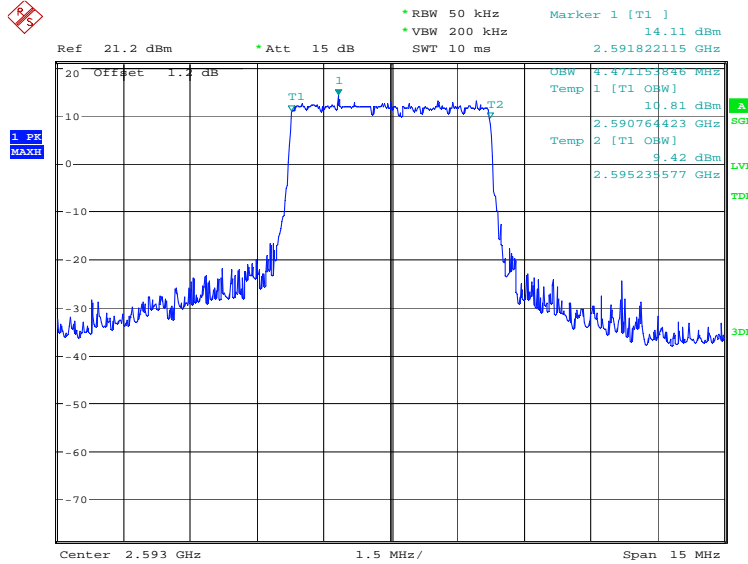


Date: 8.MAR.2021 18:03:58

LTE band 41, 5MHz (99%)

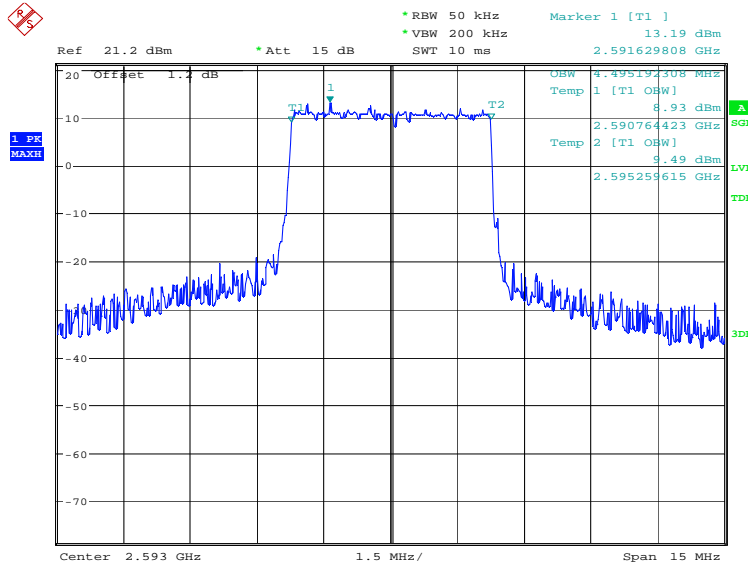
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 9.MAR.2021 10:27:43

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

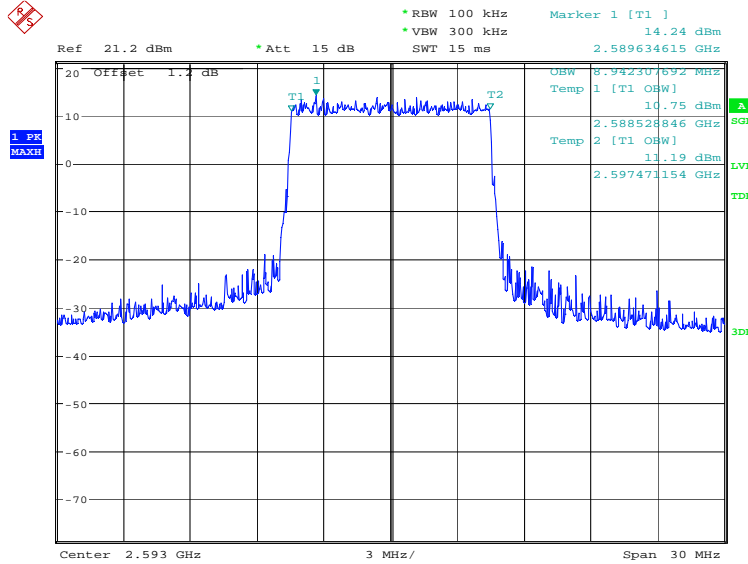


Date: 9.MAR.2021 10:28:22

LTE band 41, 10MHz (99%)

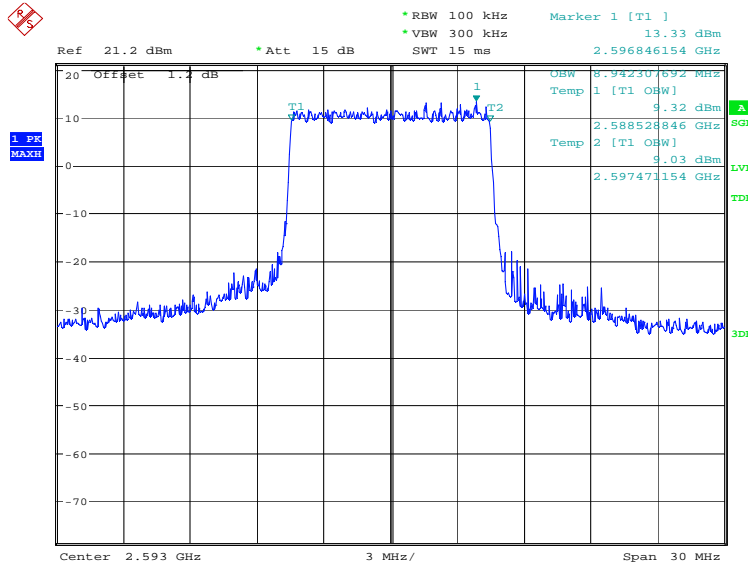
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.MAR.2021 10:29:03

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

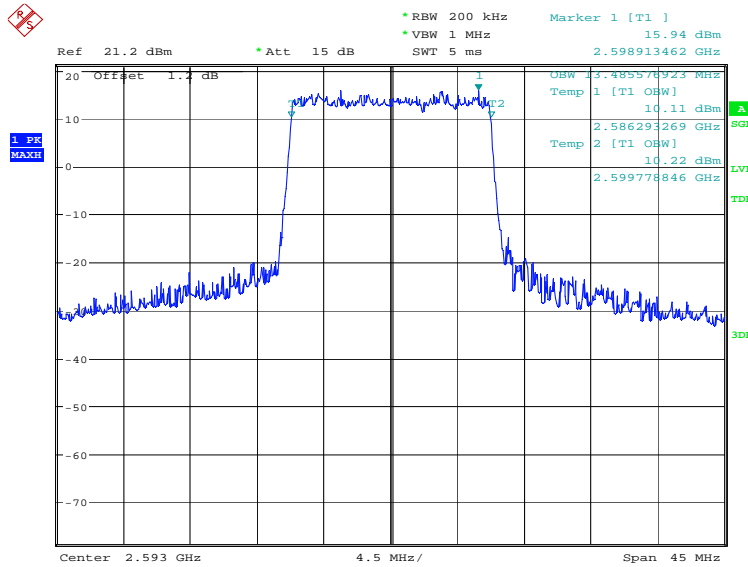


Date: 9.MAR.2021 10:29:42

LTE band 41, 15MHz (99%)

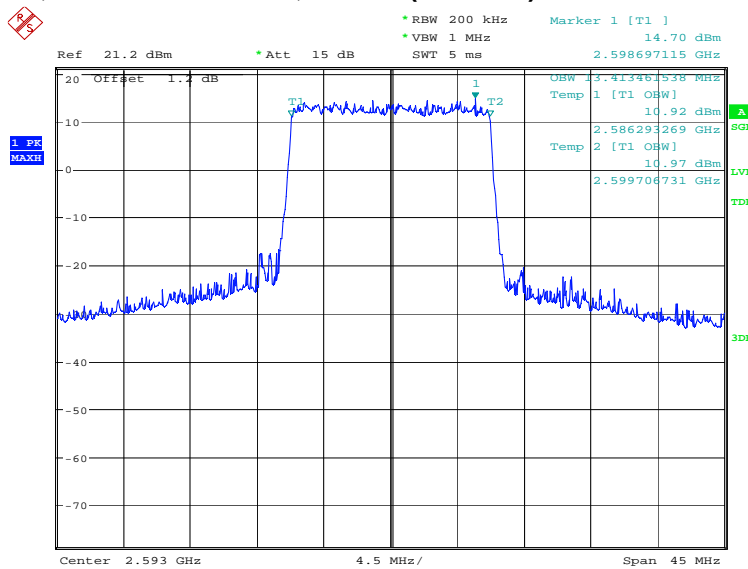
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13413.46

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



Date: 9.MAR.2021 10:30:23

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

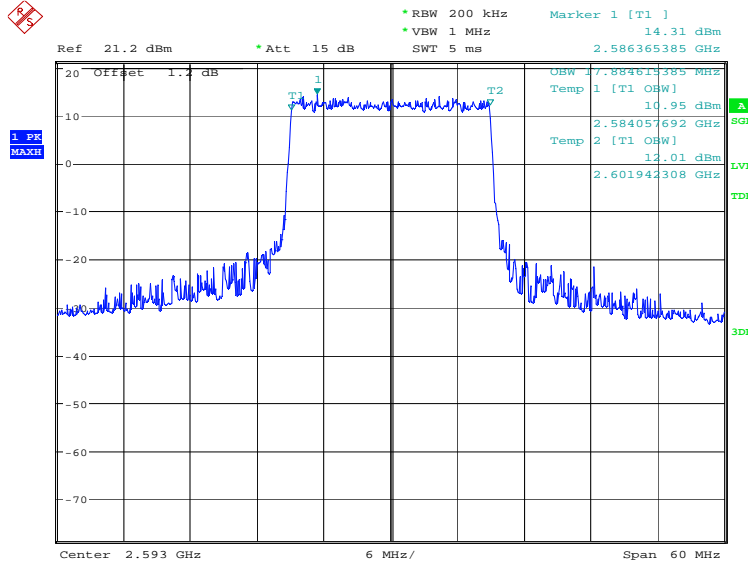


Date: 9.MAR.2021 10:31:03

LTE band 41, 20MHz (99%)

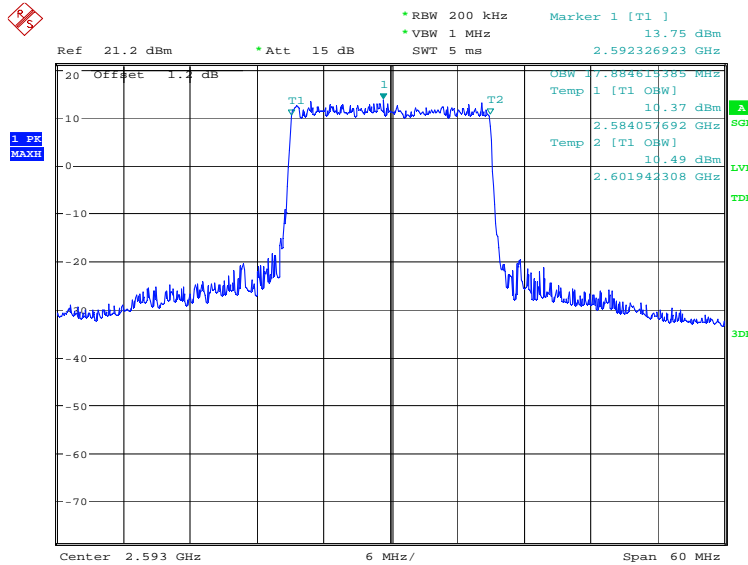
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17884.62	17884.62

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



Date: 9.MAR.2021 10:32:31

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

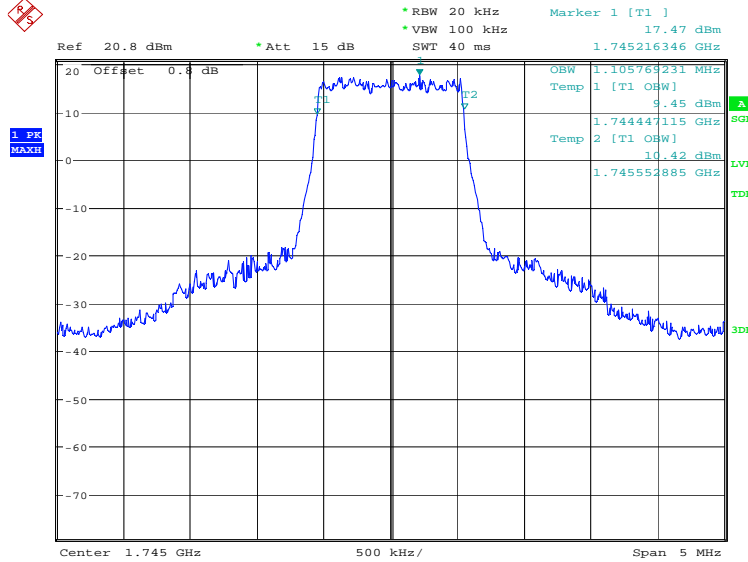


Date: 9.MAR.2021 10:33:11

LTE band 66, 1.4MHz (99%)

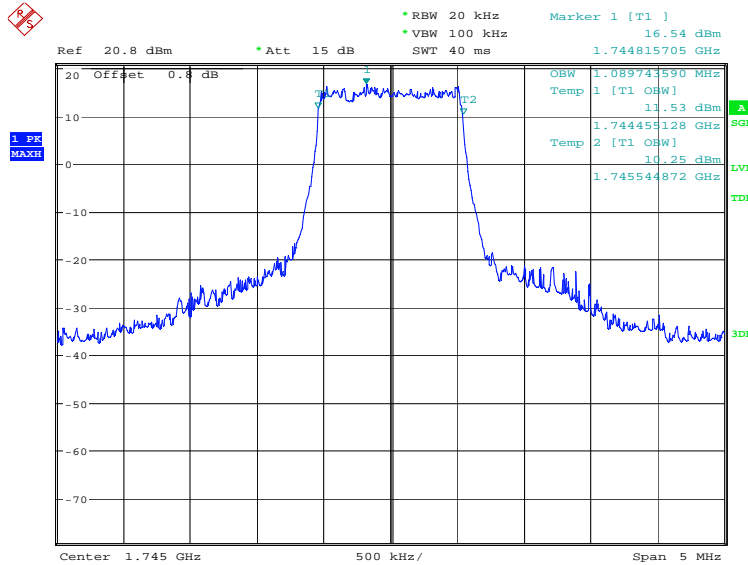
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1105.77	1089.74

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



Date: 8.MAR.2021 16:35:57

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

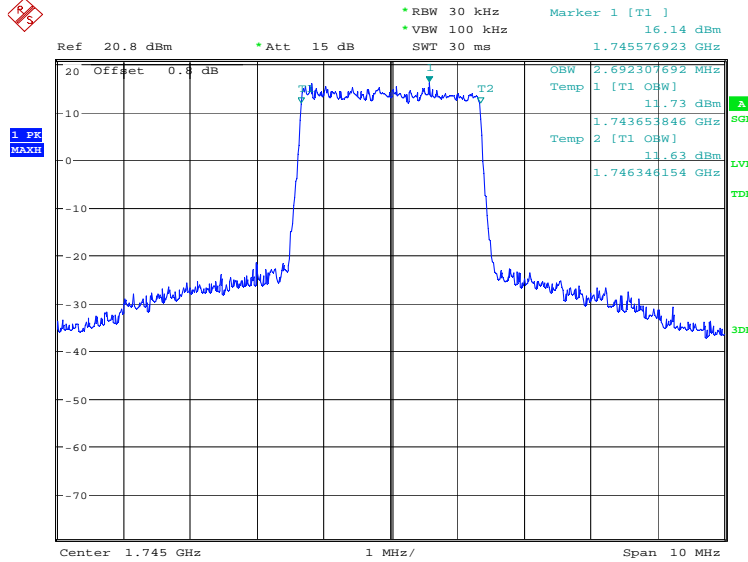


Date: 8.MAR.2021 16:36:37

LTE band 66, 3MHz (99%)

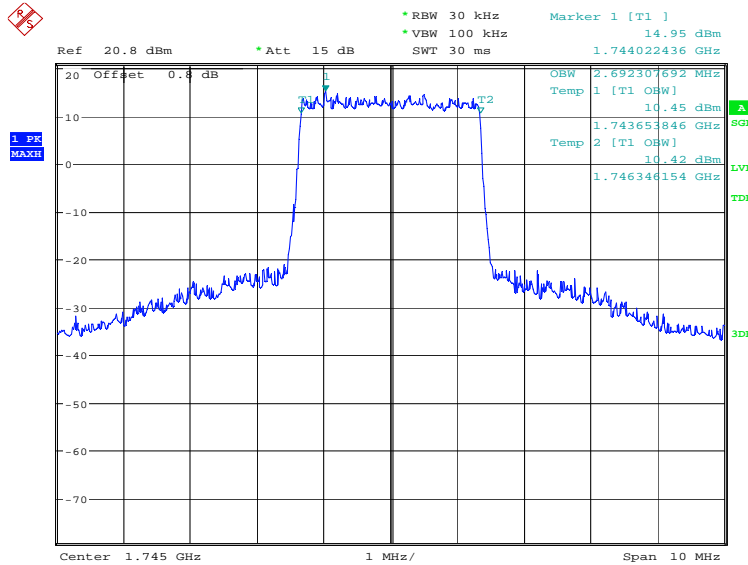
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 8.MAR.2021 16:38:05

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

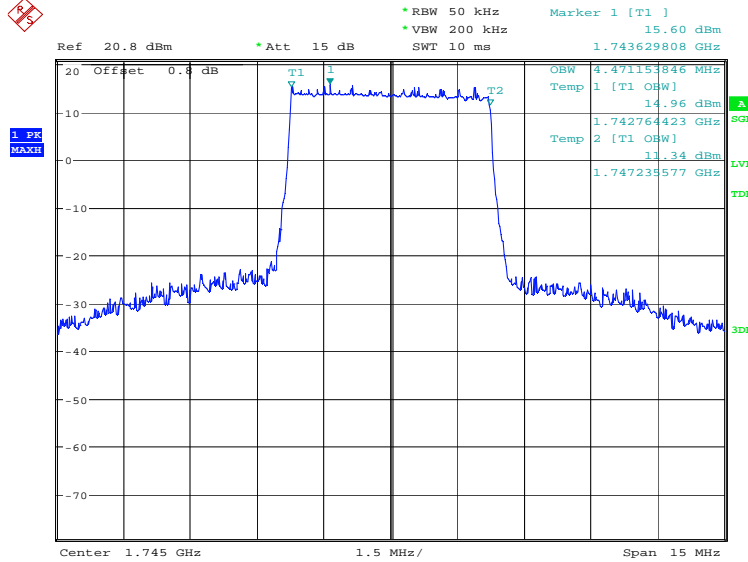


Date: 8.MAR.2021 16:38:45

LTE band 66, 5MHz (99%)

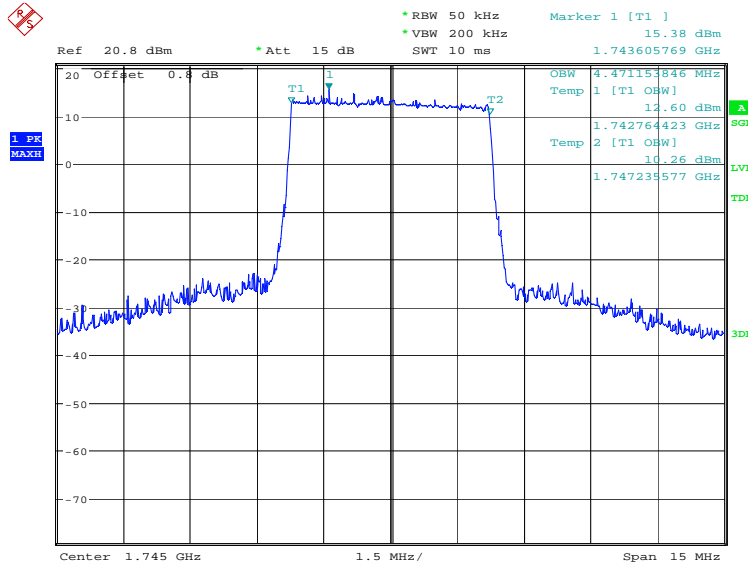
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 8.MAR.2021 16:40:13

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

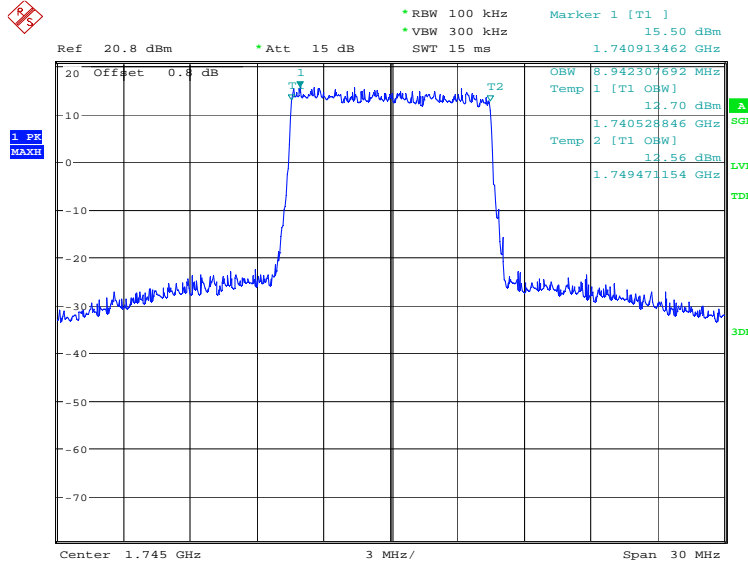


Date: 8.MAR.2021 16:40:53

LTE band 66, 10MHz (99%)

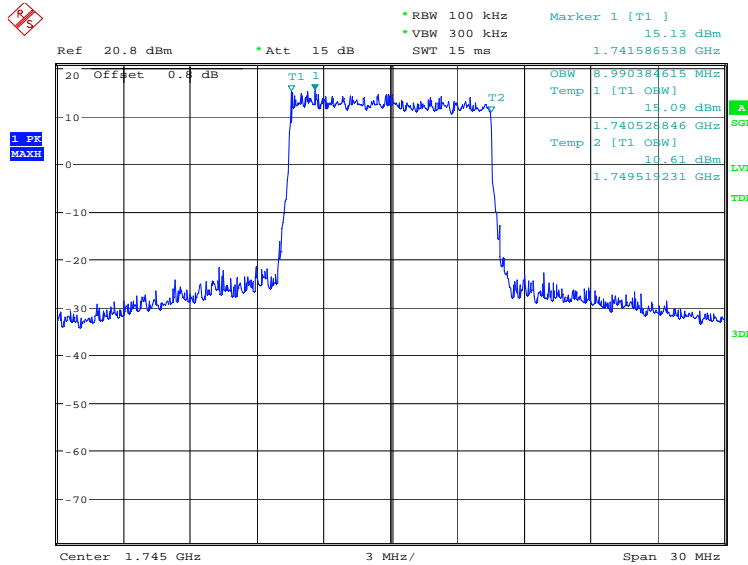
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 8.MAR.2021 16:42:21

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

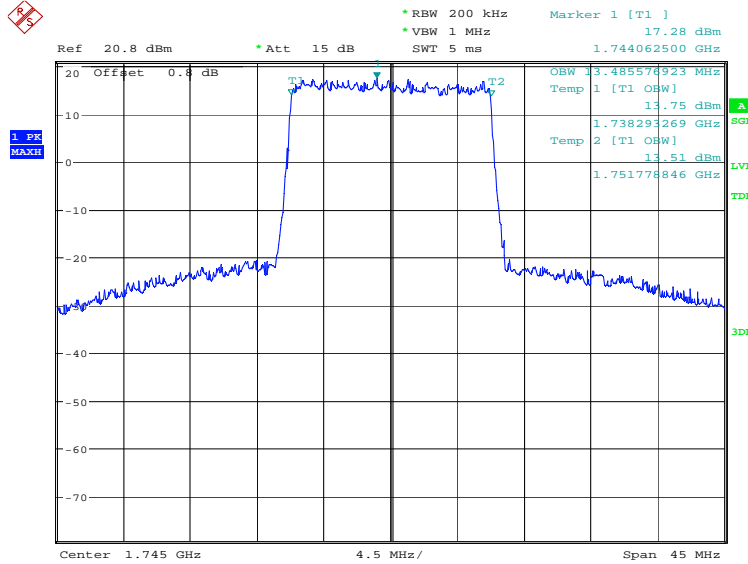


Date: 8.MAR.2021 16:43:01

LTE band 66, 15MHz (99%)

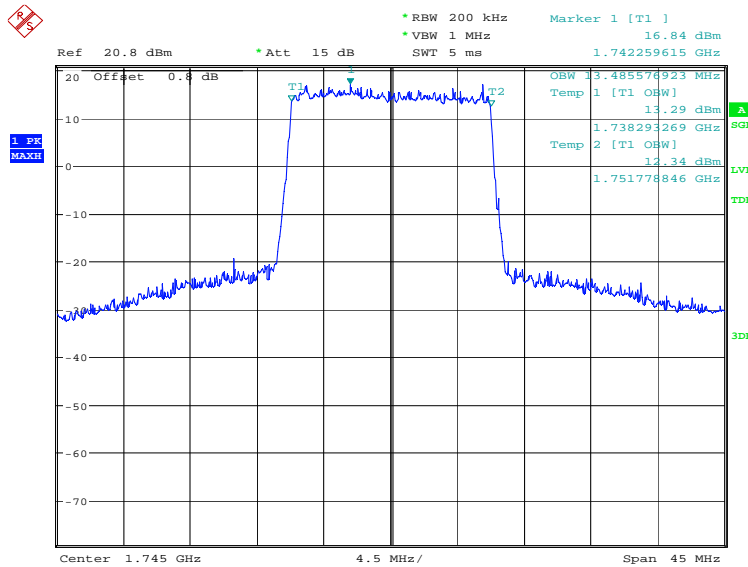
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 8.MAR.2021 16:44:29

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

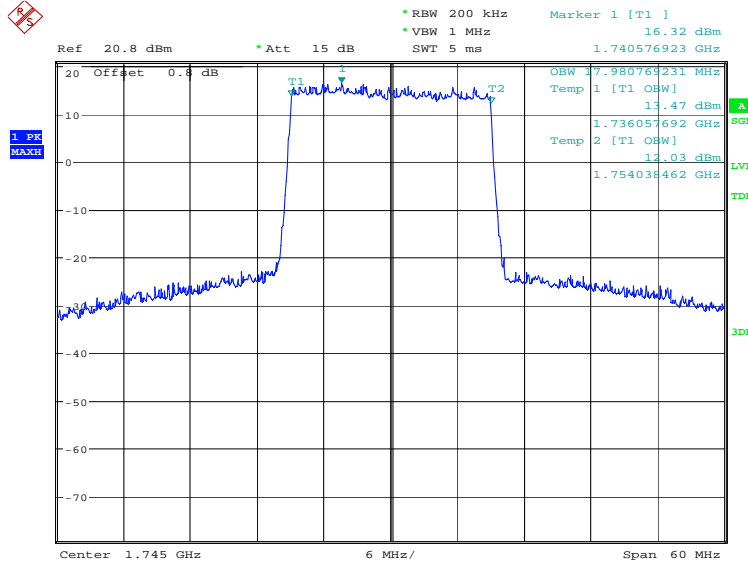


Date: 8.MAR.2021 16:45:09

LTE band 66, 20MHz (99%)

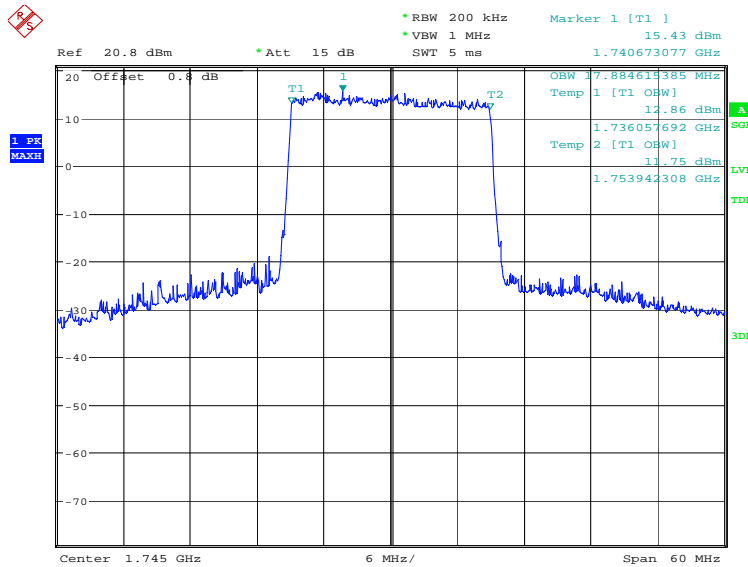
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 8.MAR.2021 16:46:38

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

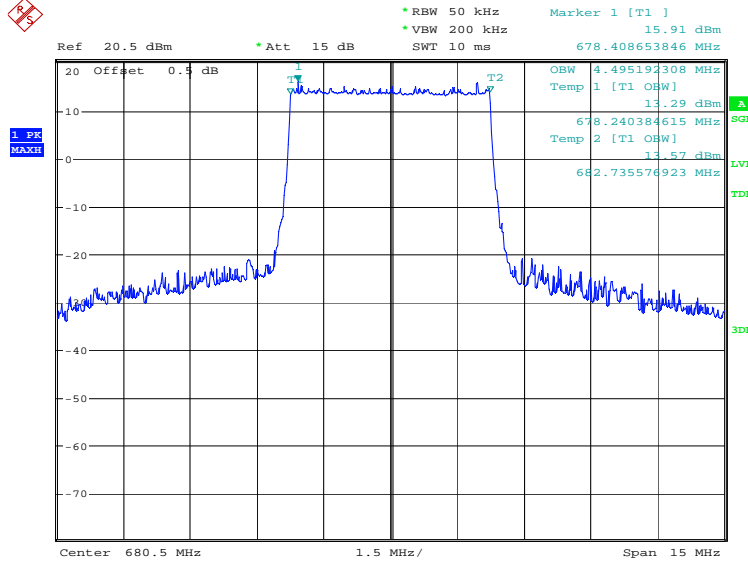


Date: 8.MAR.2021 16:47:17

LTE band 71, 5MHz (99%)

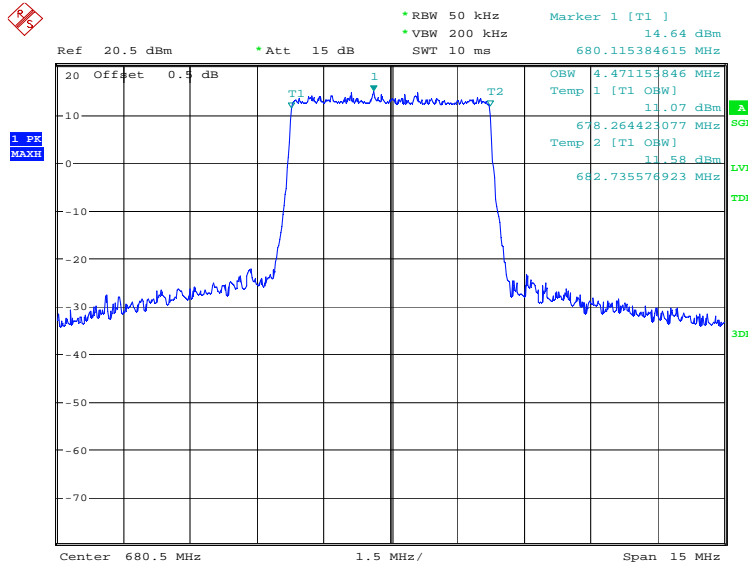
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4495.19	4471.15

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



Date: 8.MAR.2021 15:51:11

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

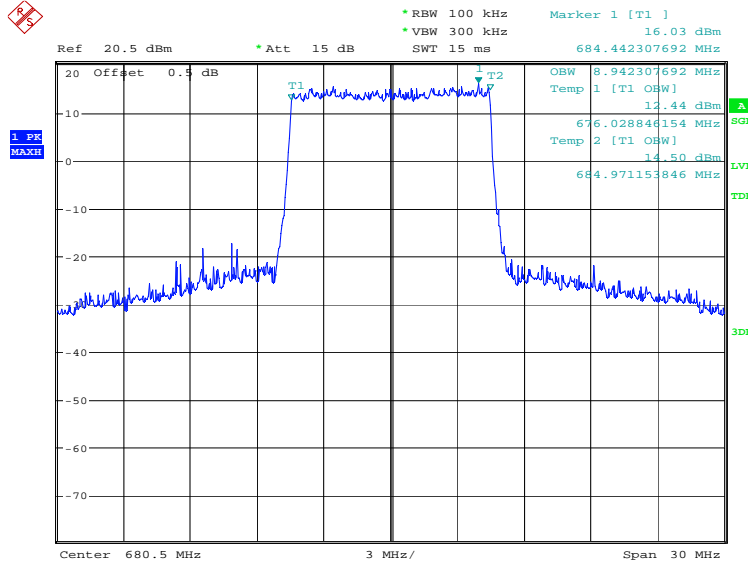


Date: 8.MAR.2021 15:51:50

LTE band 71, 10MHz (99%)

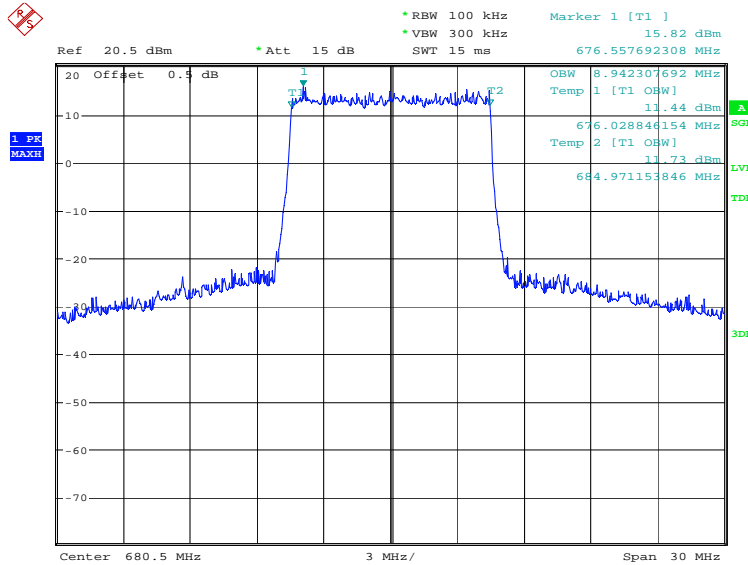
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 8.MAR.2021 15:53:19

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

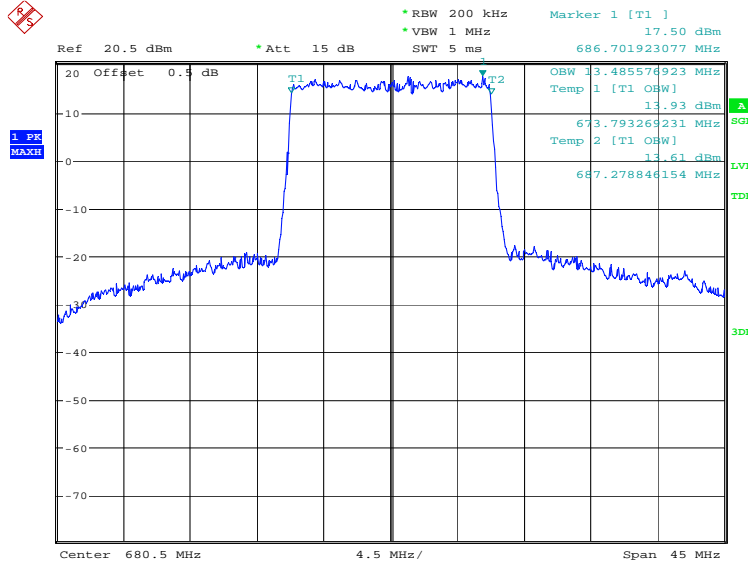


Date: 8.MAR.2021 15:53:58

LTE band 71, 15MHz (99%)

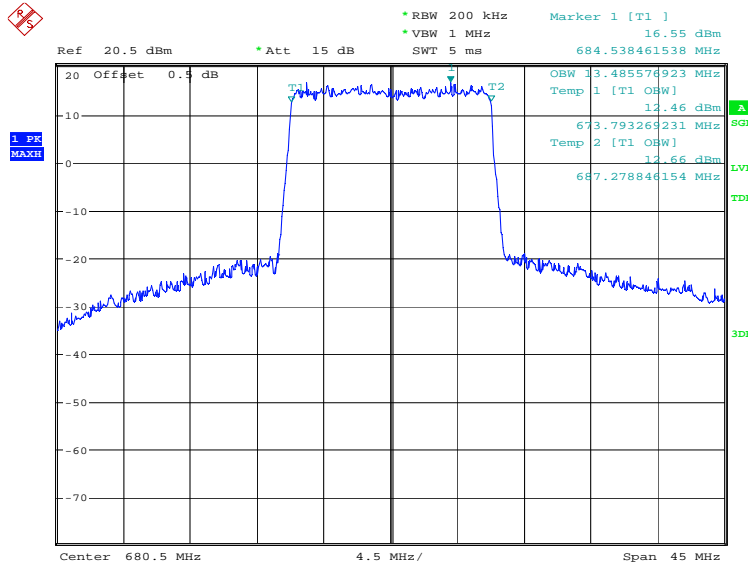
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 8.MAR.2021 15:55:27

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

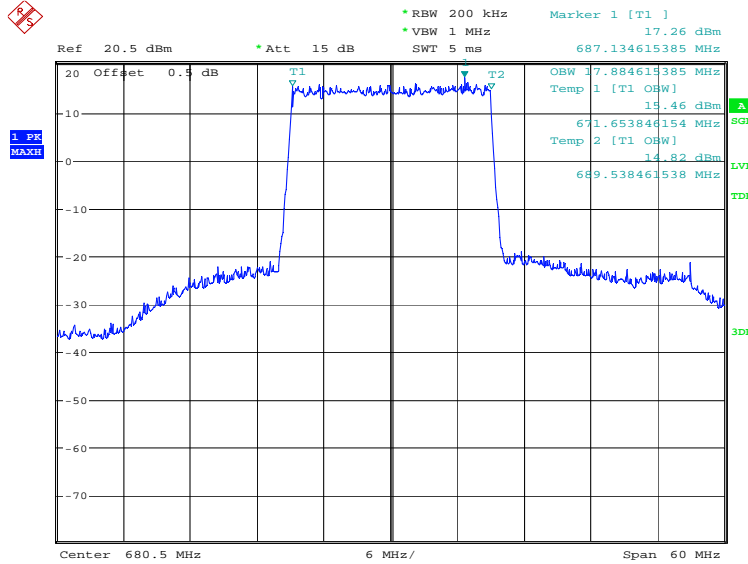


Date: 8.MAR.2021 15:56:06

LTE band 71, 20MHz (99%)

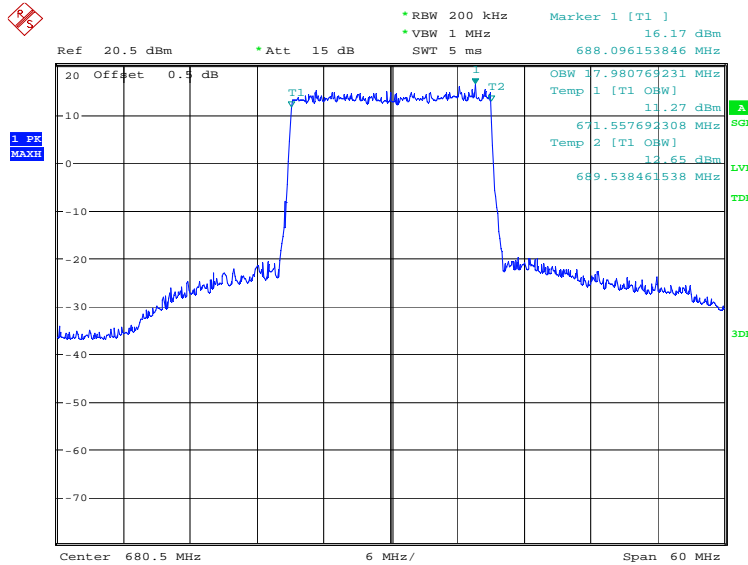
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17884.62	17980.77

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



Date: 8.MAR.2021 15:57:35

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



Date: 8.MAR.2021 15:58:14

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.

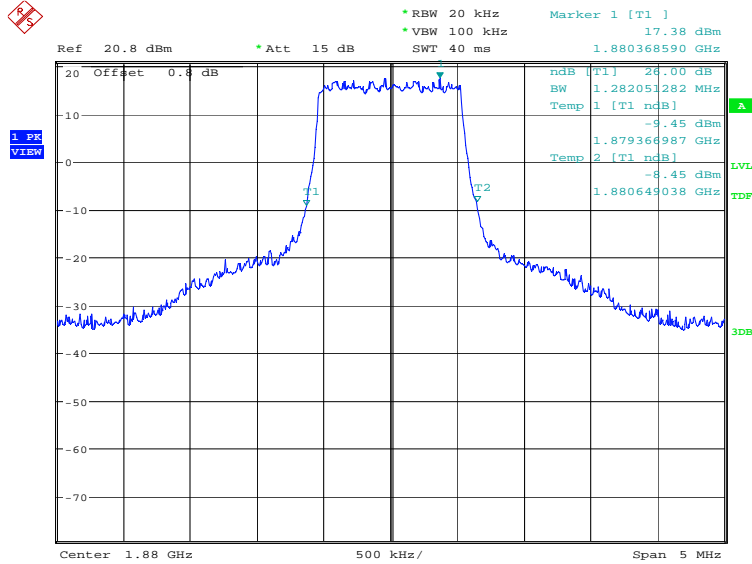
The measurement method is from ANSI C63.26:

- 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 $\geq 3 \times$ 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 2, 1.4MHz (-26dBc)

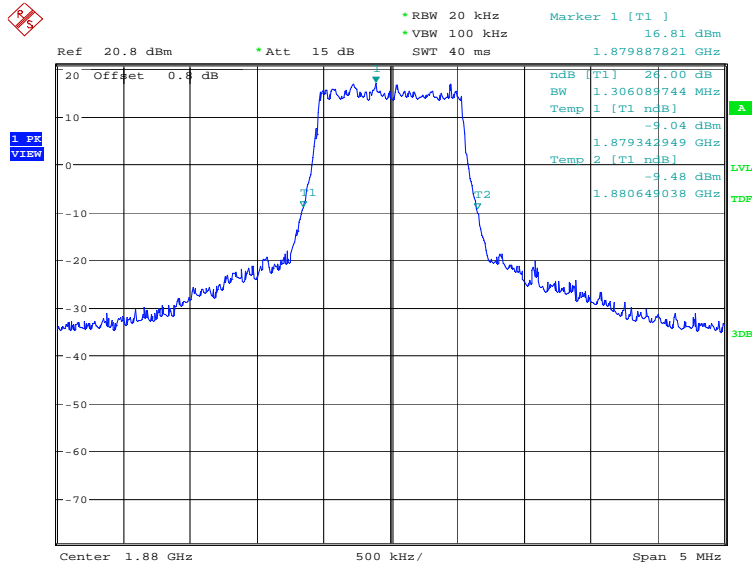
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	1282.05	1306.09

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



Date: 29.MAR.2021 10:28:41

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

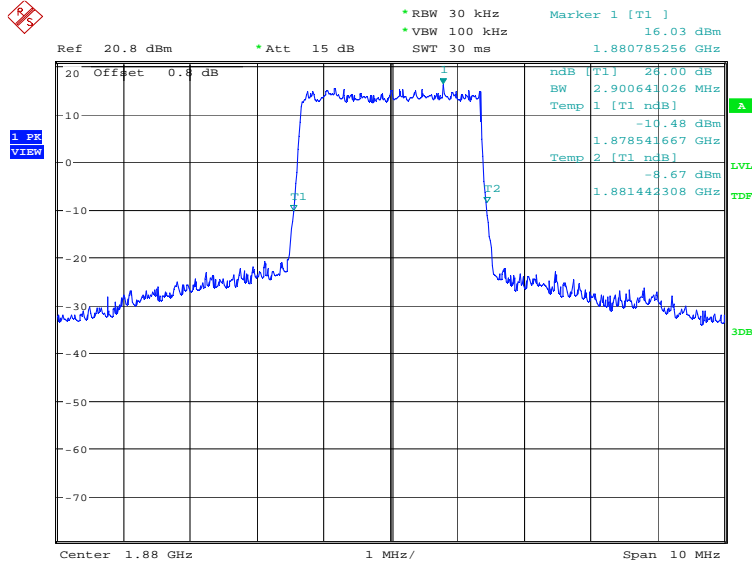


Date: 29.MAR.2021 10:29:20

LTE band 2, 3MHz (-26dBc)

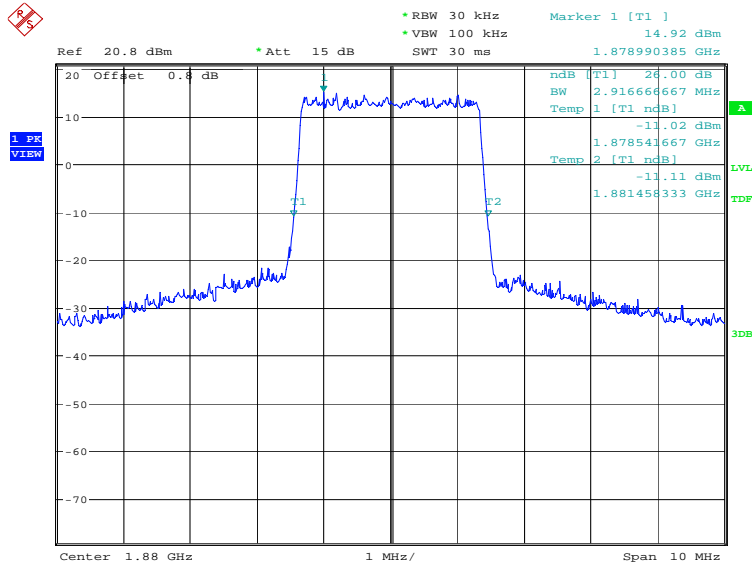
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	2900.64	2916.67

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



Date: 29.MAR.2021 10:30:48

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

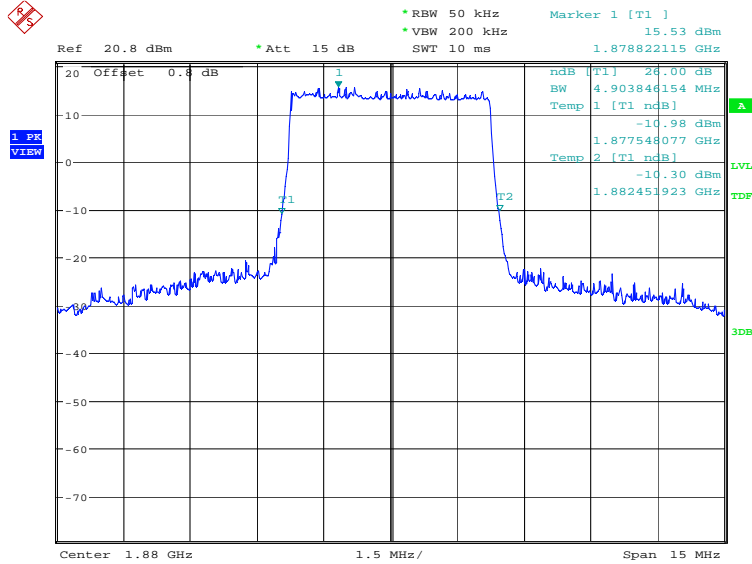


Date: 29.MAR.2021 10:31:27

LTE band 2, 5MHz (-26dBc)

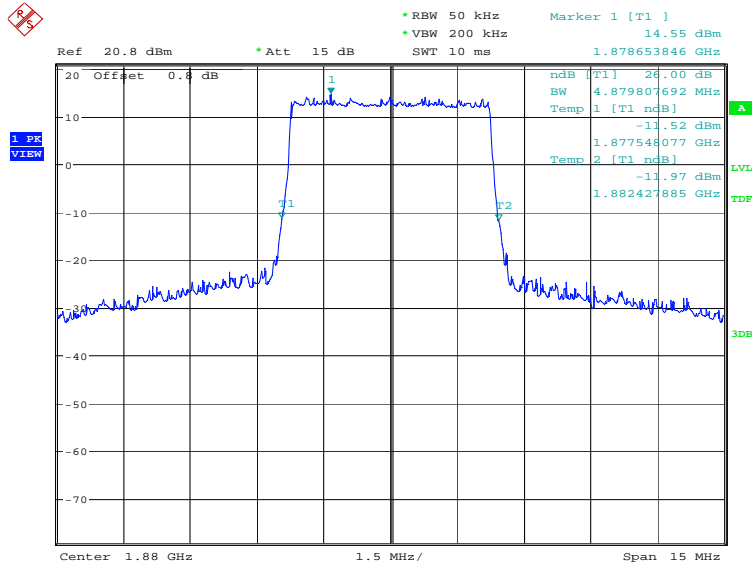
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	4903.85	4879.81

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



Date: 29.MAR.2021 10:32:56

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

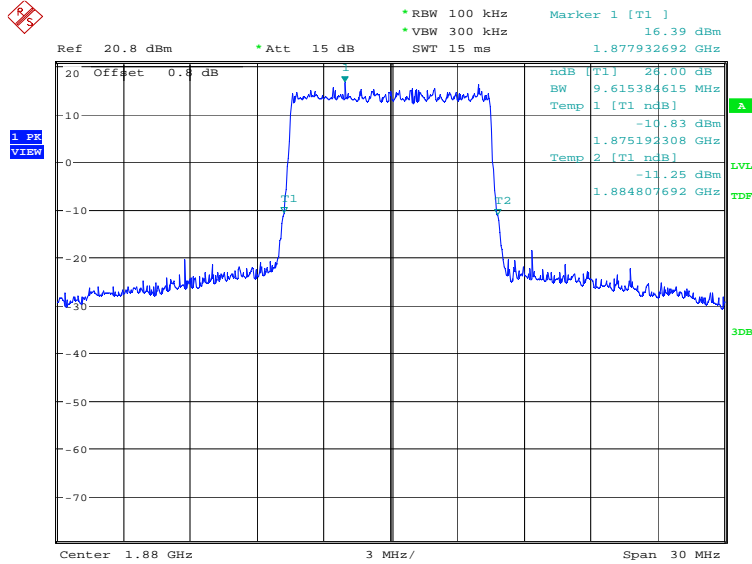


Date: 29.MAR.2021 10:33:35

LTE band 2, 10MHz (-26dBc)

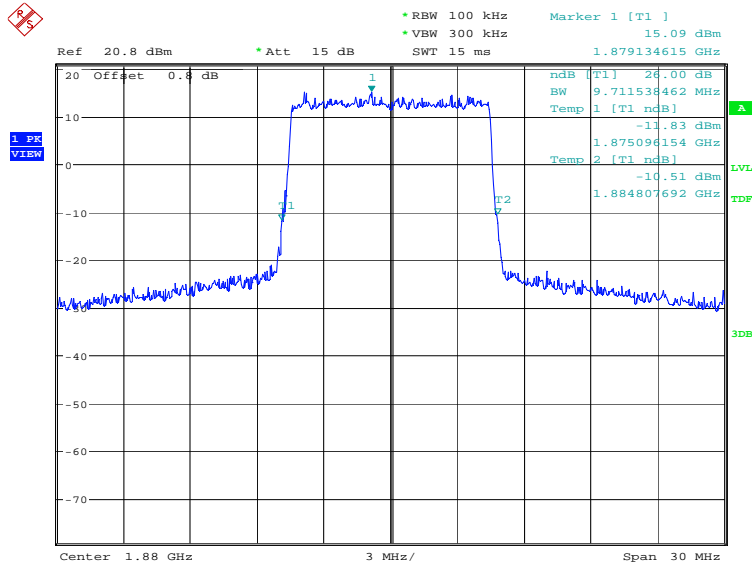
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	9615.38	9711.54

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



Date: 29.MAR.2021 10:35:03

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

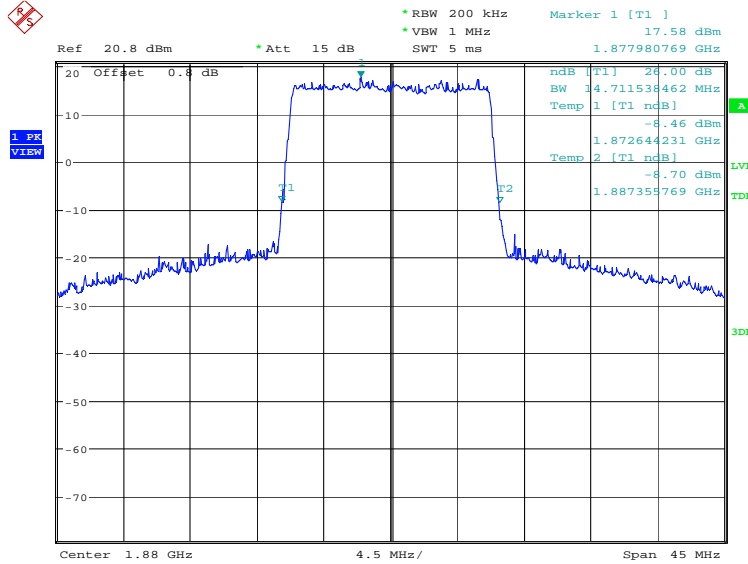


Date: 29.MAR.2021 10:35:42

LTE band 2, 15MHz (-26dBc)

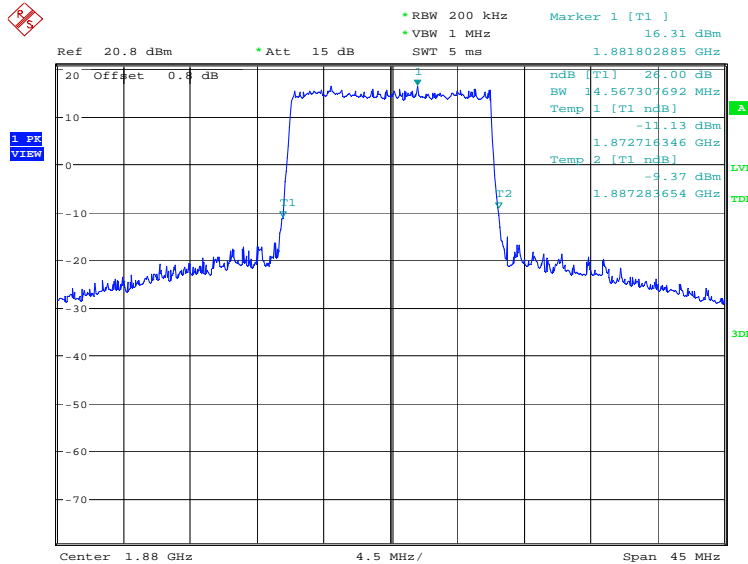
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	14711.54	14567.31

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



Date: 29.MAR.2021 10:37:11

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

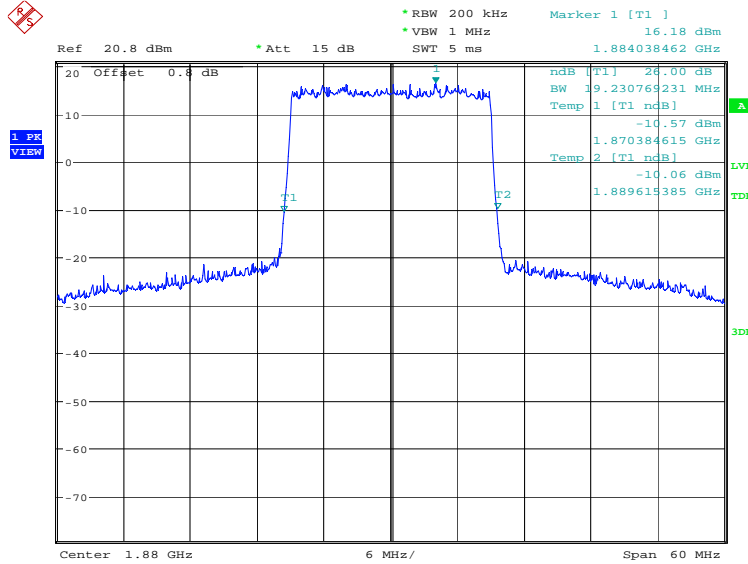


Date: 29.MAR.2021 10:37:50

LTE band 2, 20MHz (-26dBc)

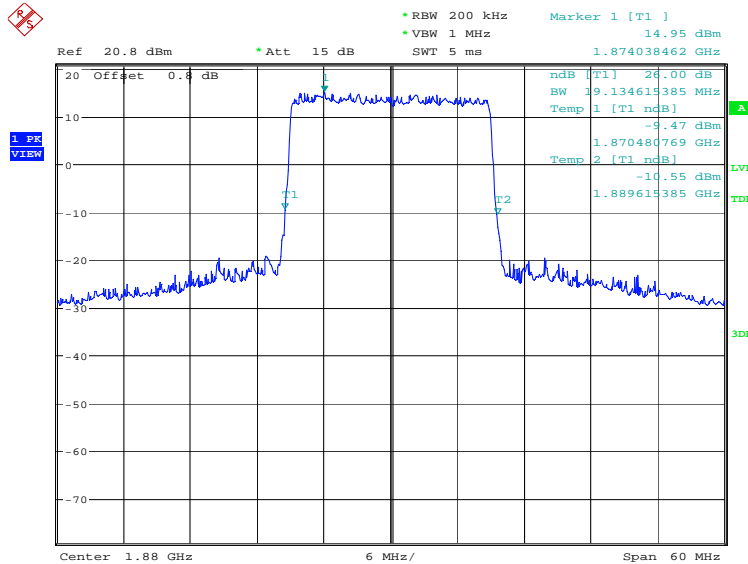
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	19230.77	19134.62

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



Date: 29.MAR.2021 10:39:18

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

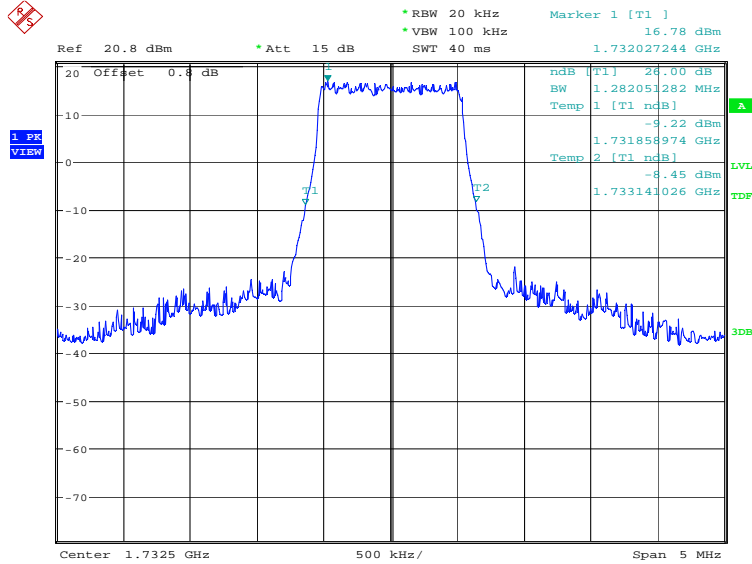


Date: 29.MAR.2021 10:39:57

LTE band 4, 1.4MHz (-26dBc)

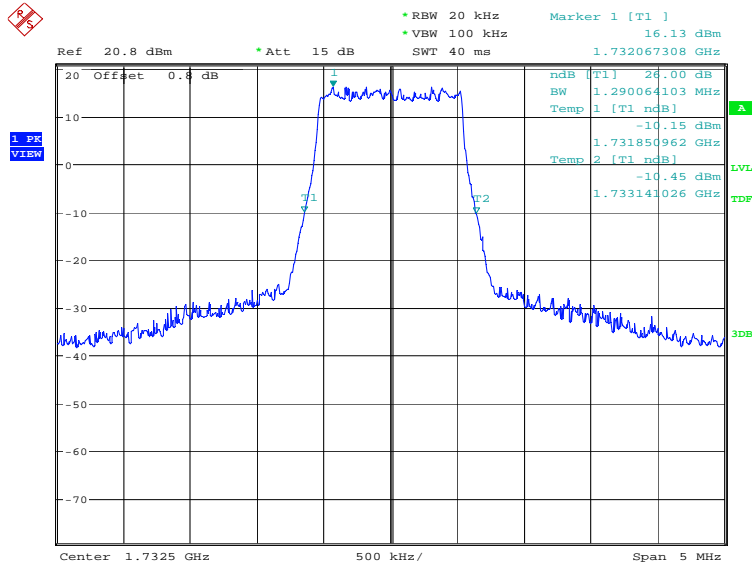
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	1282.05	1290.06

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



Date: 29.MAR.2021 10:41:27

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

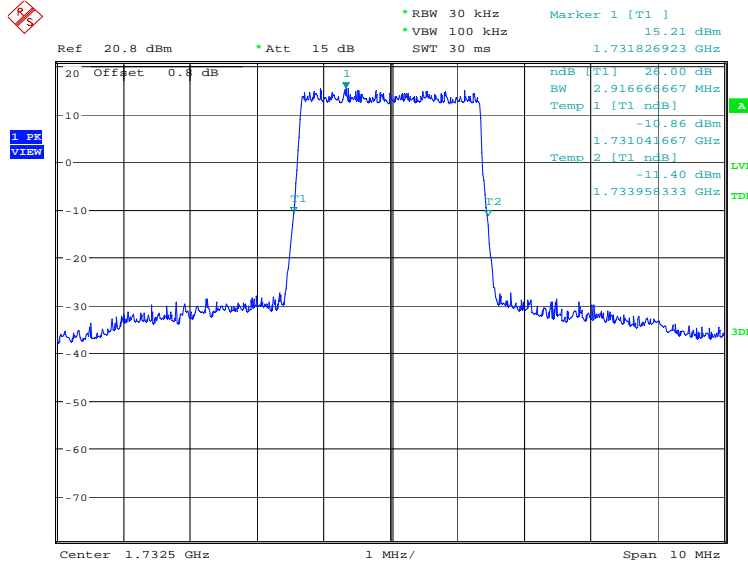


Date: 29.MAR.2021 10:42:06

LTE band 4, 3MHz (-26dBc)

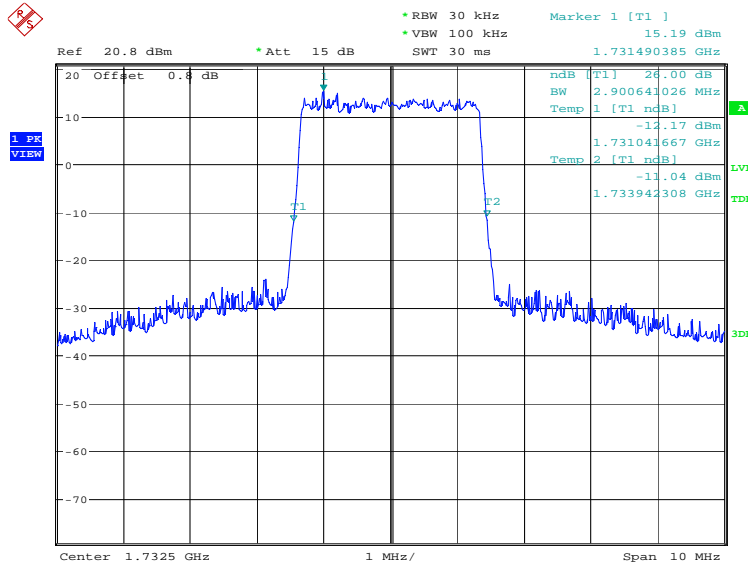
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	2916.67	2900.64

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



Date: 29.MAR.2021 10:43:34

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

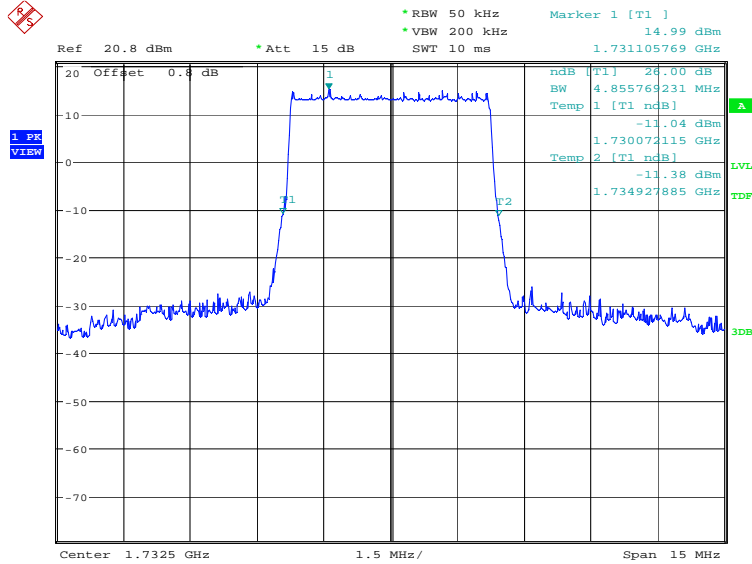


Date: 29.MAR.2021 10:44:13

LTE band 4, 5MHz (-26dBc)

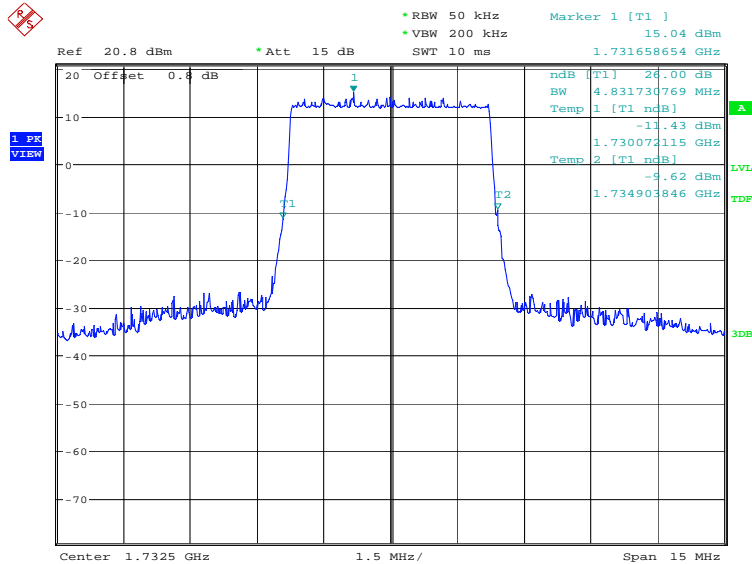
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	4855.77	4831.73

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



Date: 29.MAR.2021 10:45:41

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

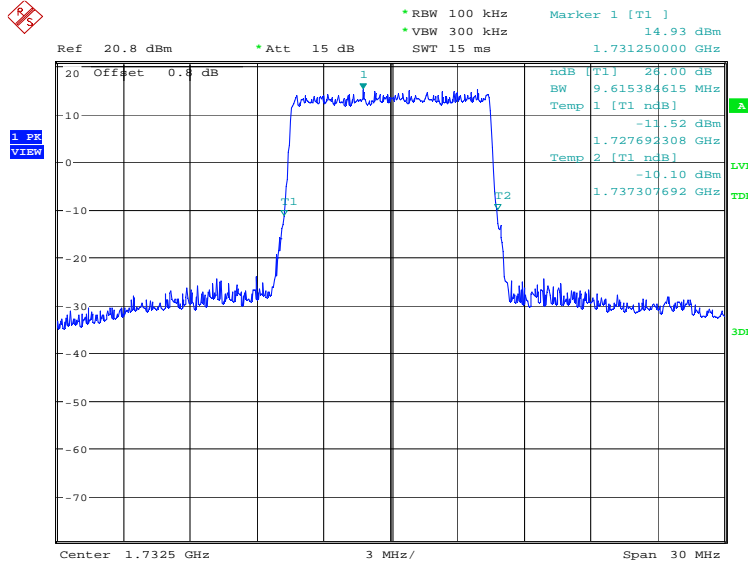


Date: 29.MAR.2021 10:46:20

LTE band 4, 10MHz (-26dBc)

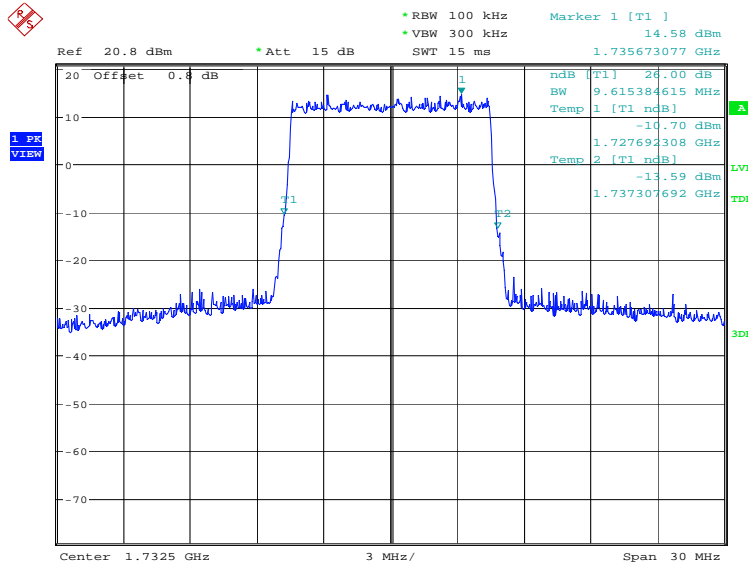
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	9615.38	9615.38

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



Date: 29.MAR.2021 10:47:48

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

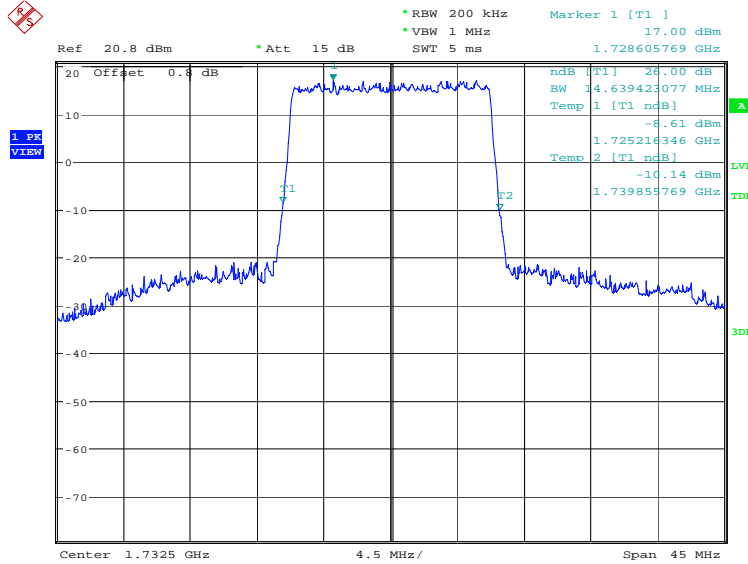


Date: 29.MAR.2021 10:48:28

LTE band 4, 15MHz (-26dBc)

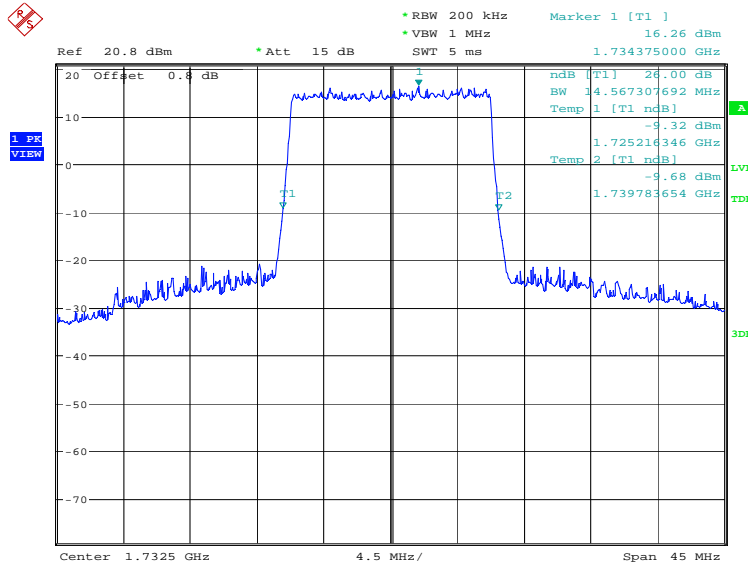
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	14639.42	14567.31

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



Date: 29.MAR.2021 10:49:56

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

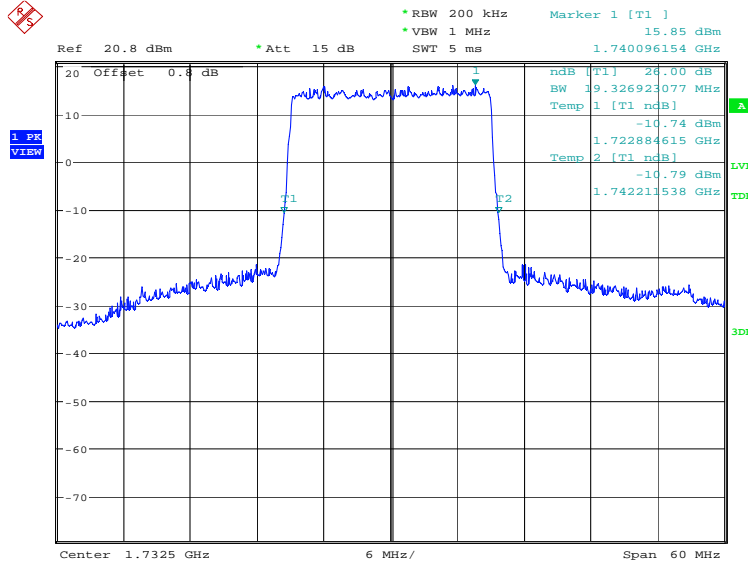


Date: 29.MAR.2021 10:50:35

LTE band 4, 20MHz (-26dBc)

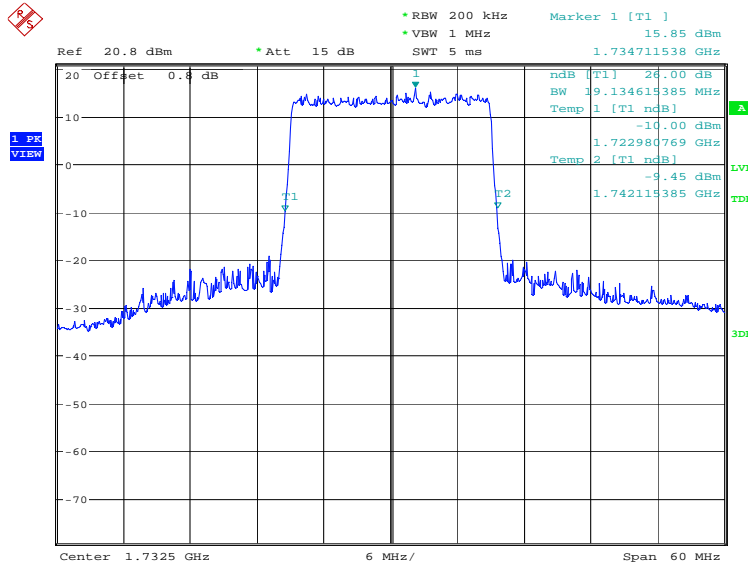
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	19326.92	19134.62

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



Date: 29.MAR.2021 10:52:03

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

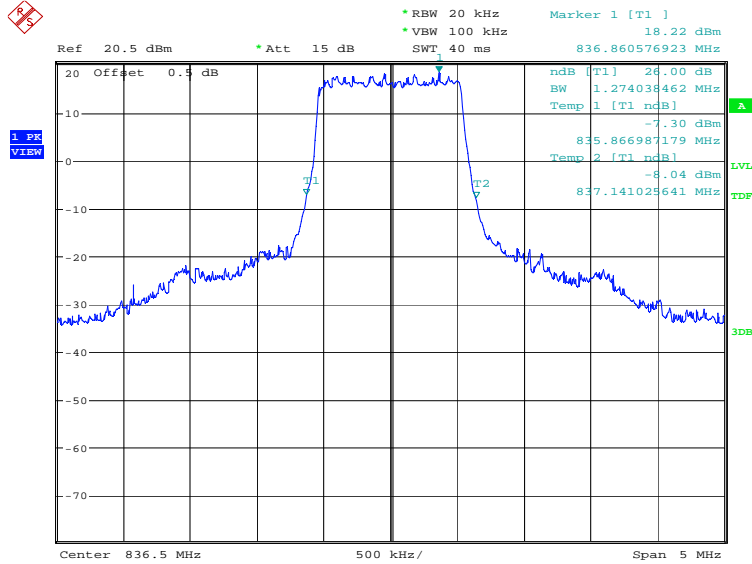


Date: 29.MAR.2021 10:52:42

LTE band 5, 1.4MHz (-26dBc)

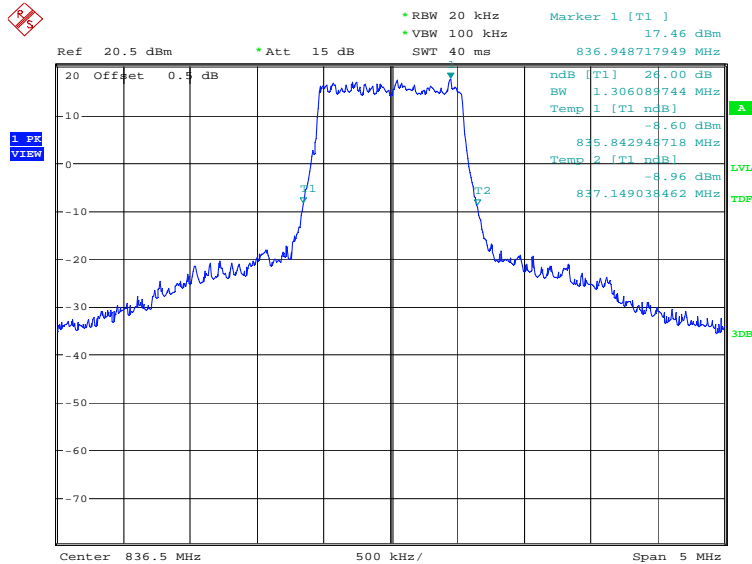
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1274.04	1306.09

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



Date: 29.MAR.2021 12:06:15

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

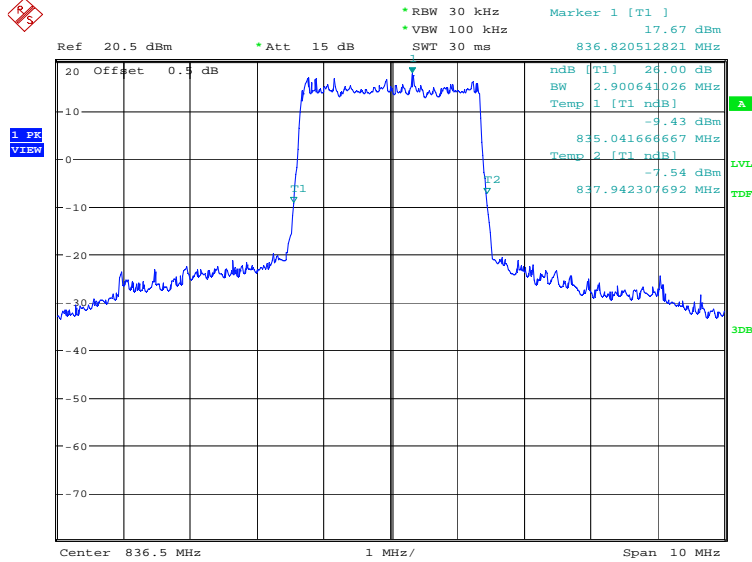


Date: 29.MAR.2021 12:06:54

LTE band 5, 3MHz (-26dBc)

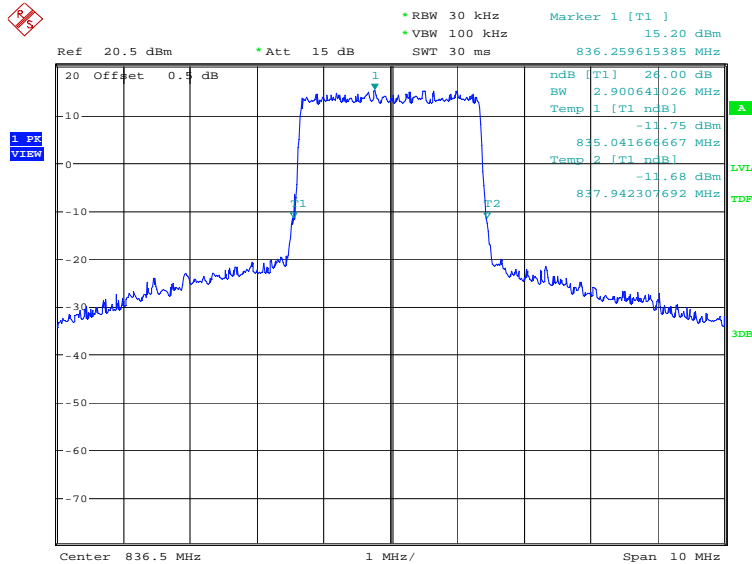
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2900.64	2900.64

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



Date: 29.MAR.2021 12:08:23

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

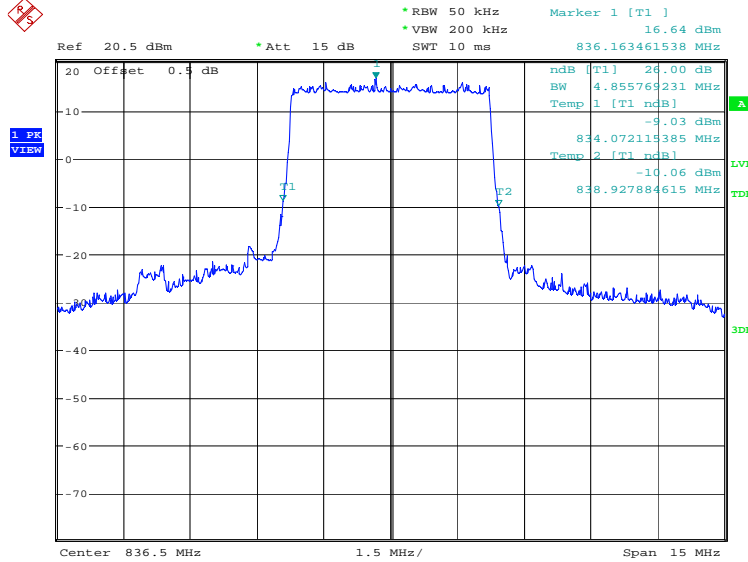


Date: 29.MAR.2021 12:09:02

LTE band 5, 5MHz (-26dBc)

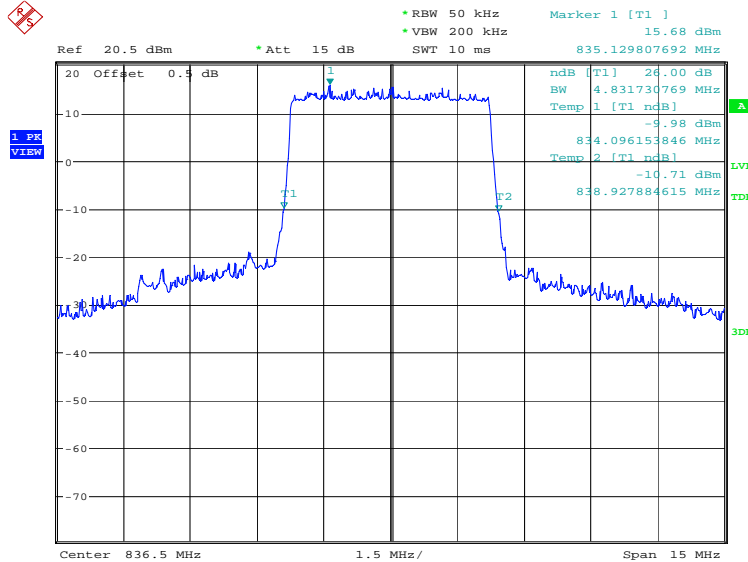
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4855.77	4831.73

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



Date: 29.MAR.2021 12:10:31

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

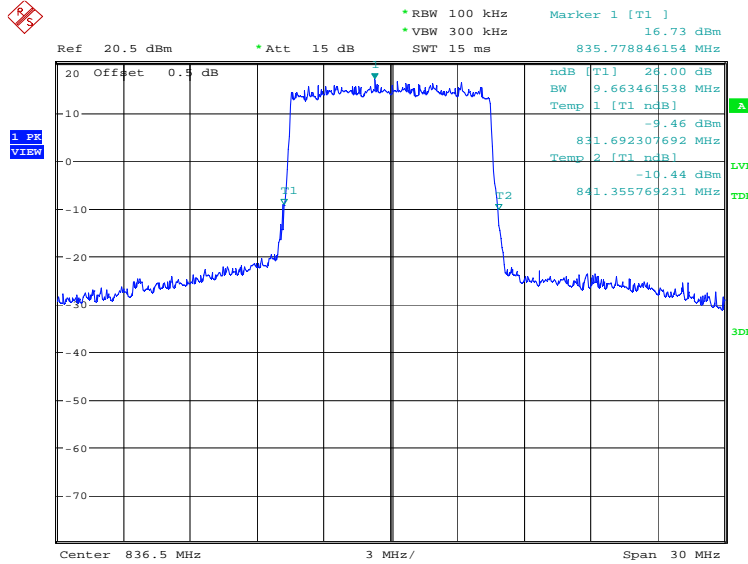


Date: 29.MAR.2021 12:11:11

LTE band 5, 10MHz (-26dBc)

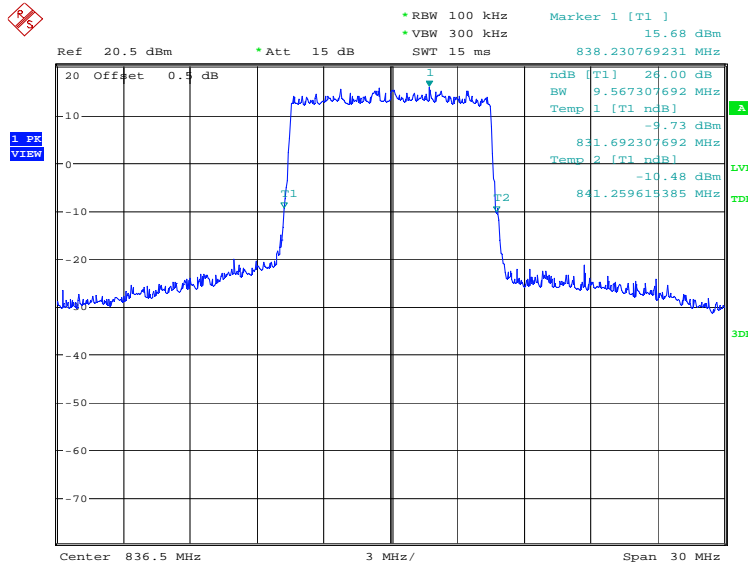
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9663.46	9567.31

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



Date: 29.MAR.2021 12:12:40

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

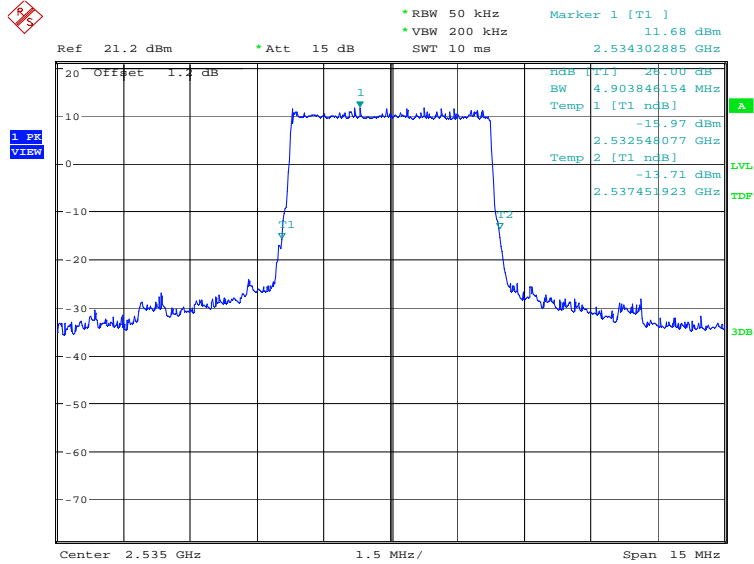


Date: 29.MAR.2021 12:13:19

LTE band 7, 5MHz (-26dBc)

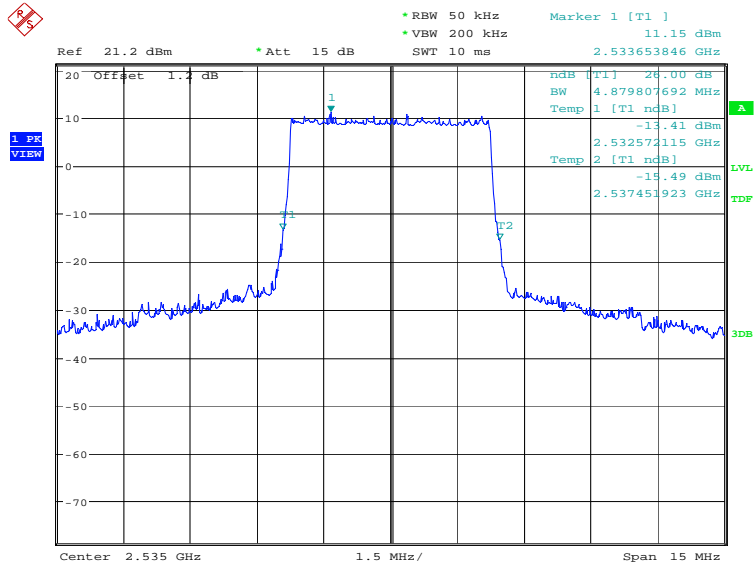
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	4903.85	4879.81

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



Date: 9.MAR.2021 09:54:20

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

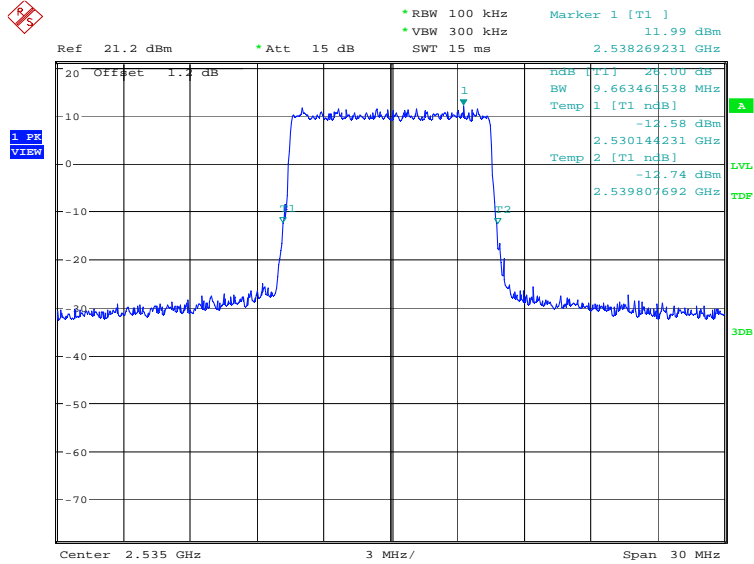


Date: 9.MAR.2021 09:55:00

LTE band 7, 10MHz (-26dBc)

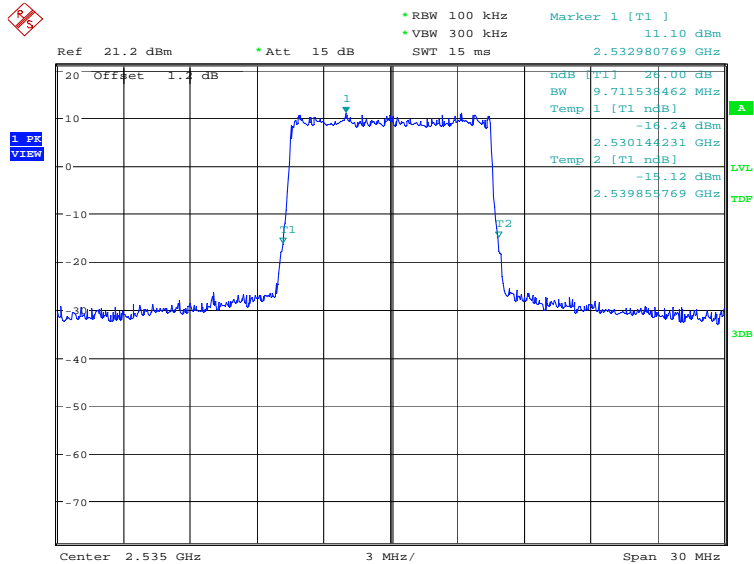
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9663.46	9711.54

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



Date: 9.MAR.2021 09:56:29

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

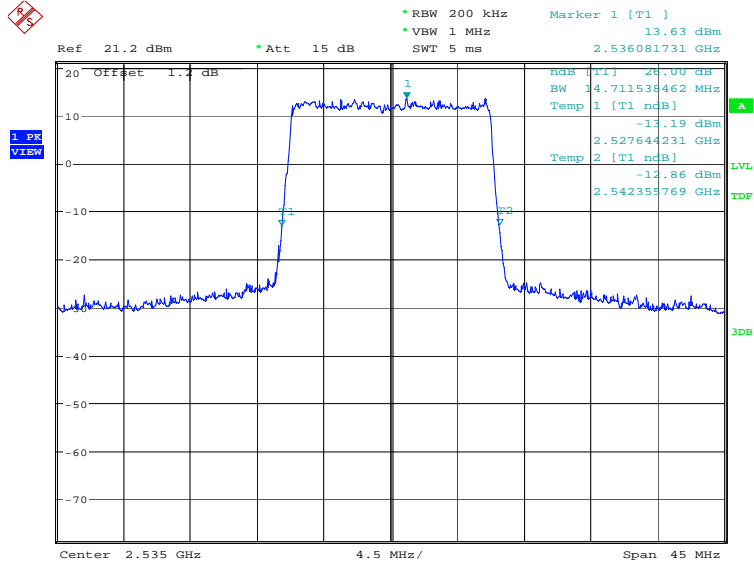


Date: 9.MAR.2021 09:57:08

LTE band 7, 15MHz (-26dBc)

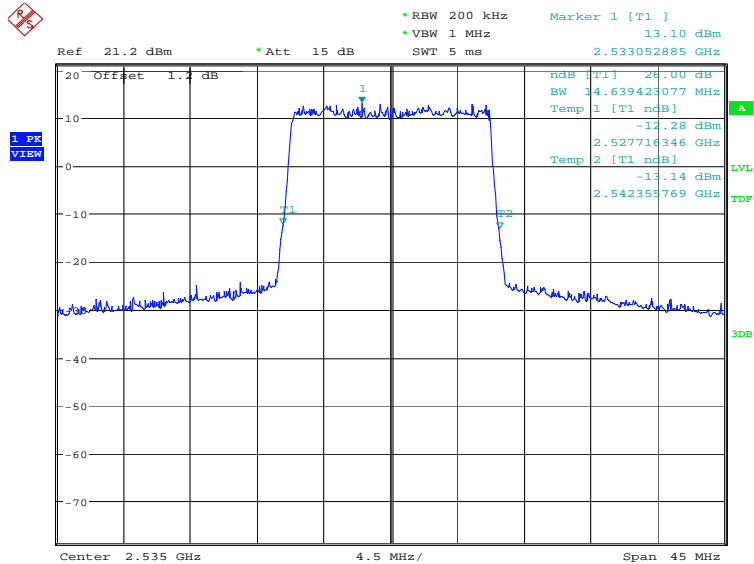
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14711.54	14639.42

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



Date: 9.MAR.2021 09:58:37

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

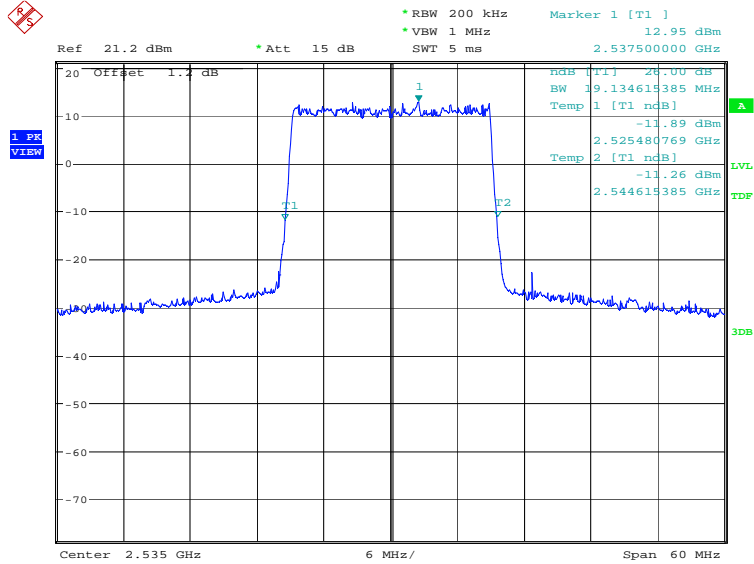


Date: 9.MAR.2021 09:59:17

LTE band 7, 20MHz (-26dBc)

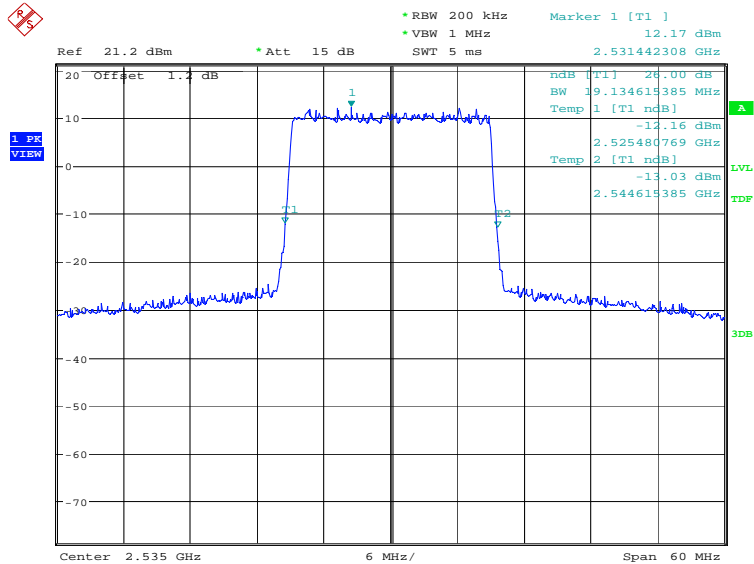
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	19134.62	19134.62

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



Date: 9.MAR.2021 10:00:46

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

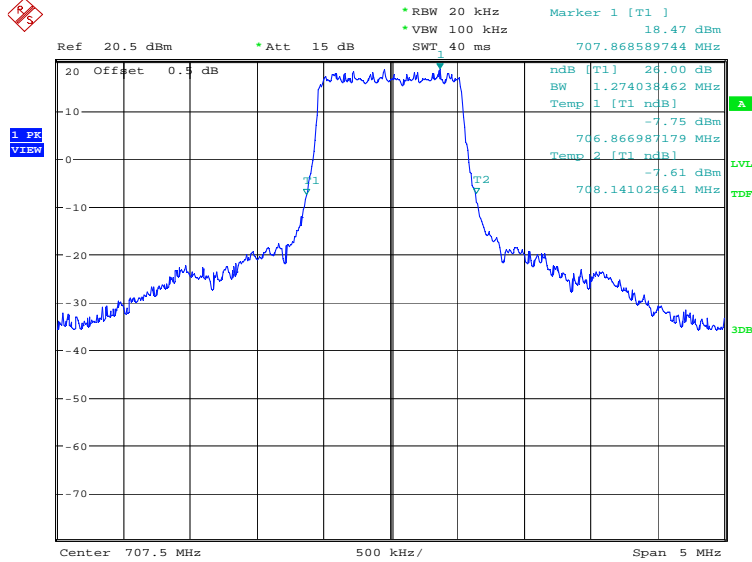


Date: 9.MAR.2021 10:01:25

LTE band 12, 1.4MHz (-26dBc)

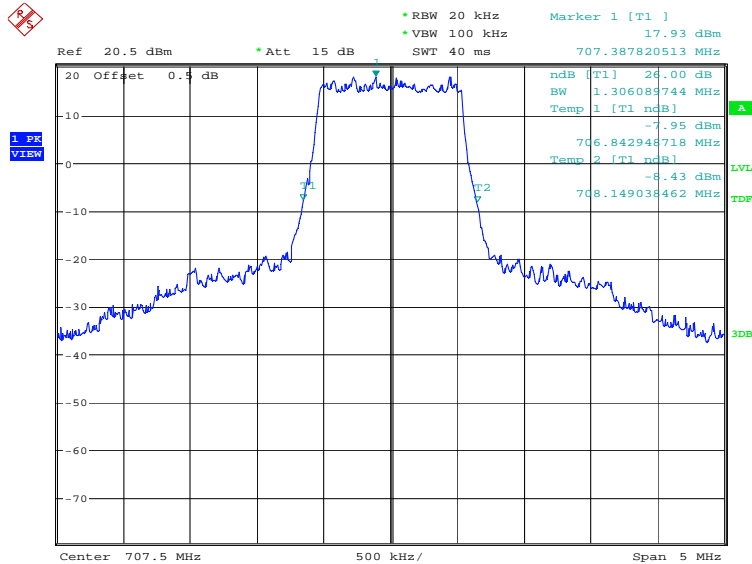
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1274.04	1306.09

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



Date: 8.MAR.2021 18:13:37

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

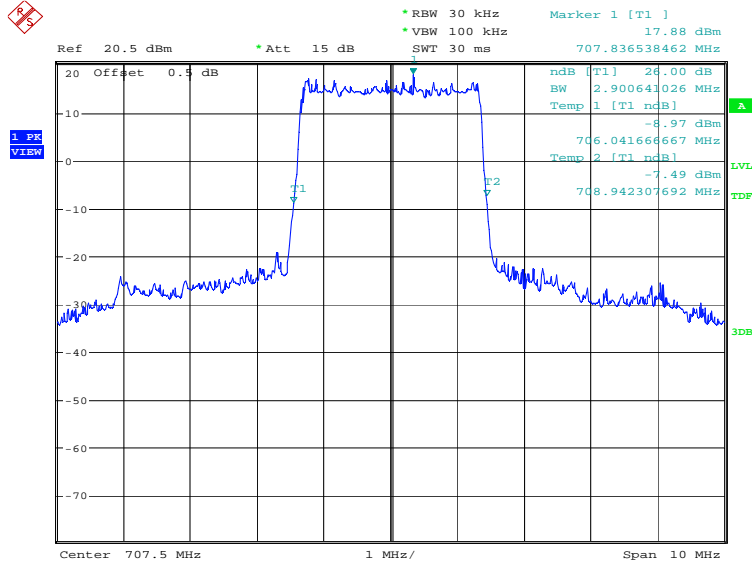


Date: 8.MAR.2021 18:14:17

LTE band 12, 3MHz (-26dBc)

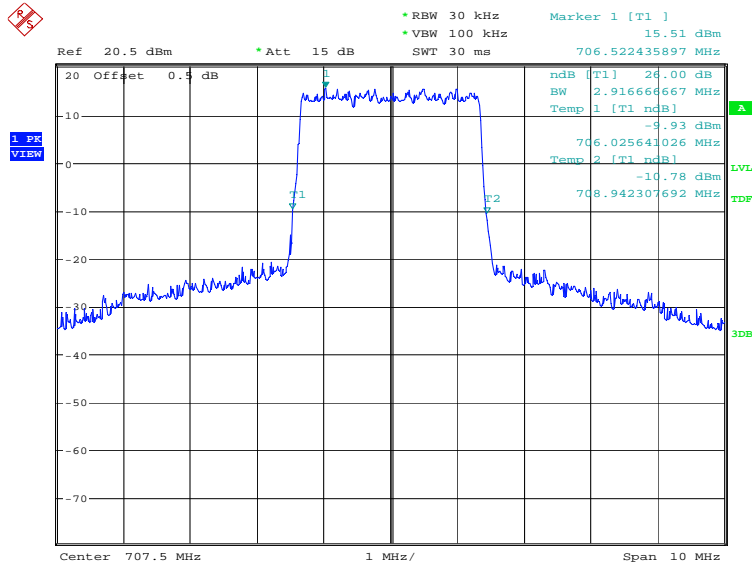
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2900.64	2916.67

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



Date: 8.MAR.2021 18:15:46

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

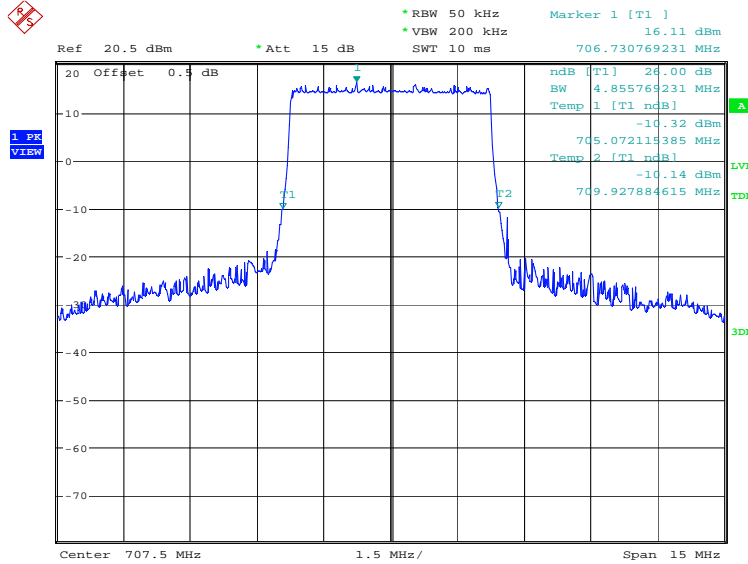


Date: 8.MAR.2021 18:16:25

LTE band 12, 5MHz (-26dBc)

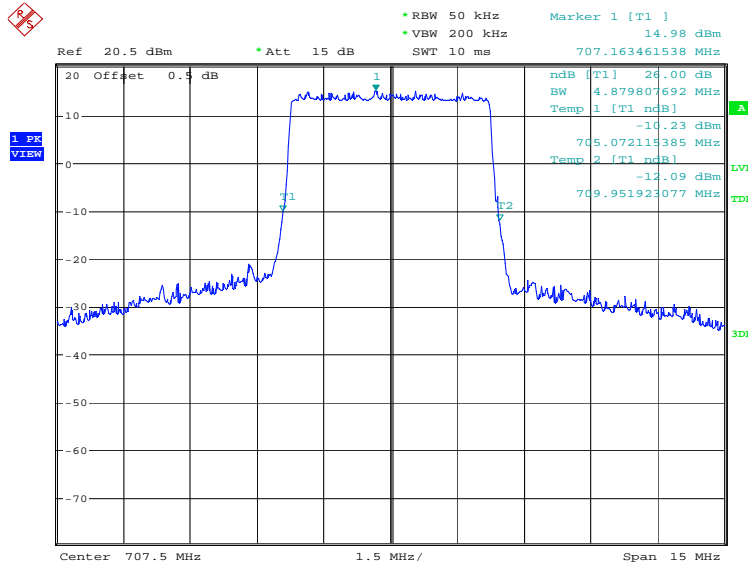
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	4855.77	4879.81

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



Date: 8.MAR.2021 18:17:54

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

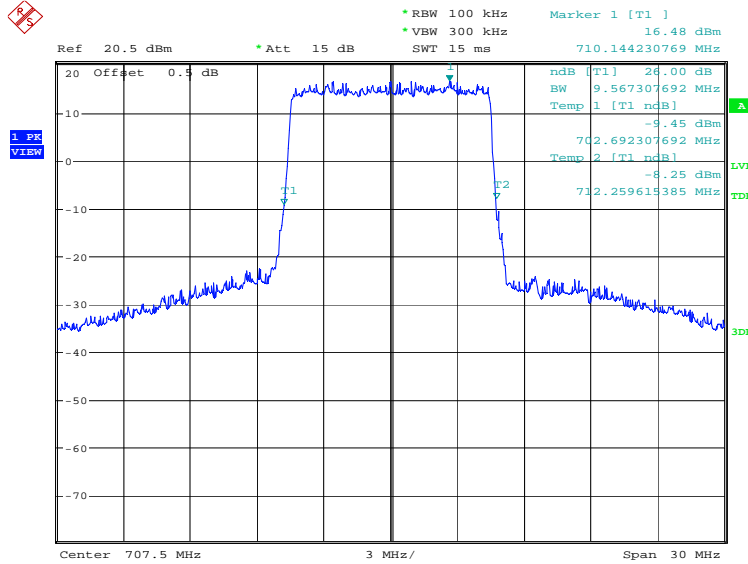


Date: 8.MAR.2021 18:18:34

LTE band 12, 10MHz (-26dBc)

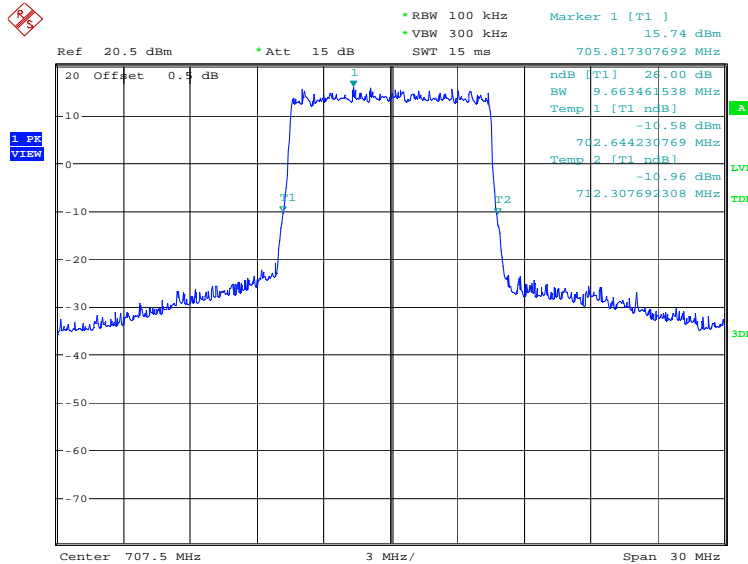
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9567.31	9663.46

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



Date: 8.MAR.2021 18:20:03

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

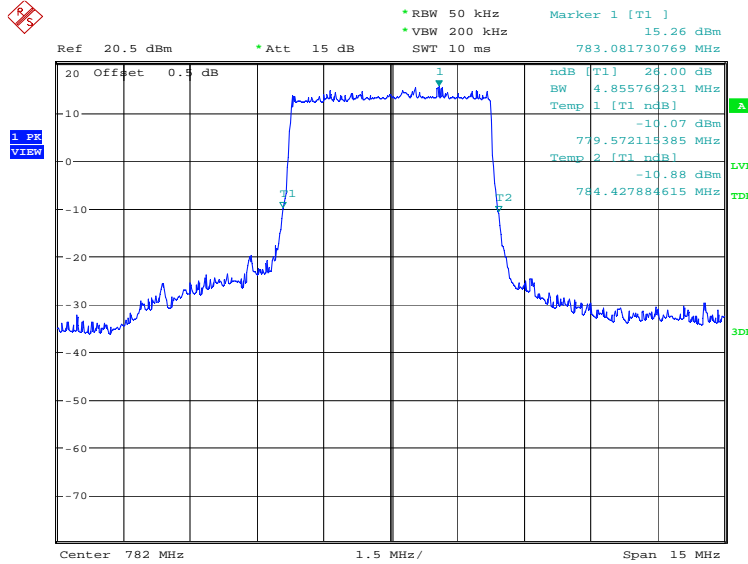


Date: 8.MAR.2021 18:20:43

LTE band 13, 5MHz (-26dBc)

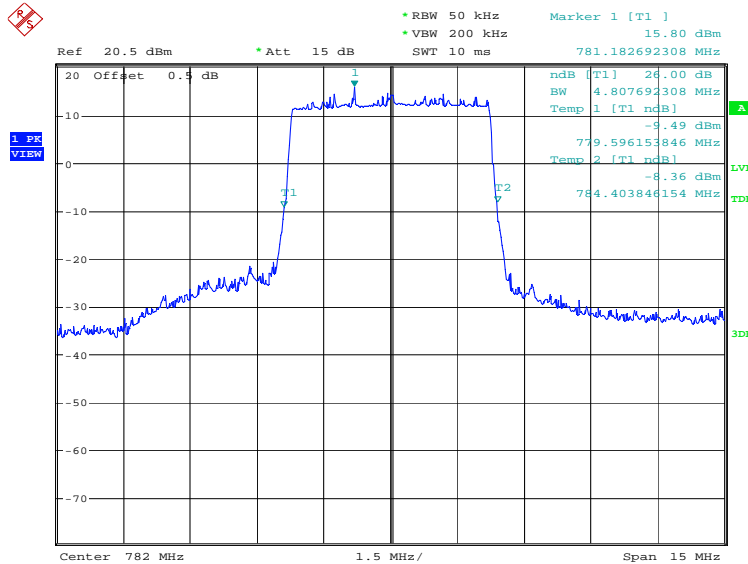
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	4855.77	4807.69

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



Date: 8.MAR.2021 18:22:13

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

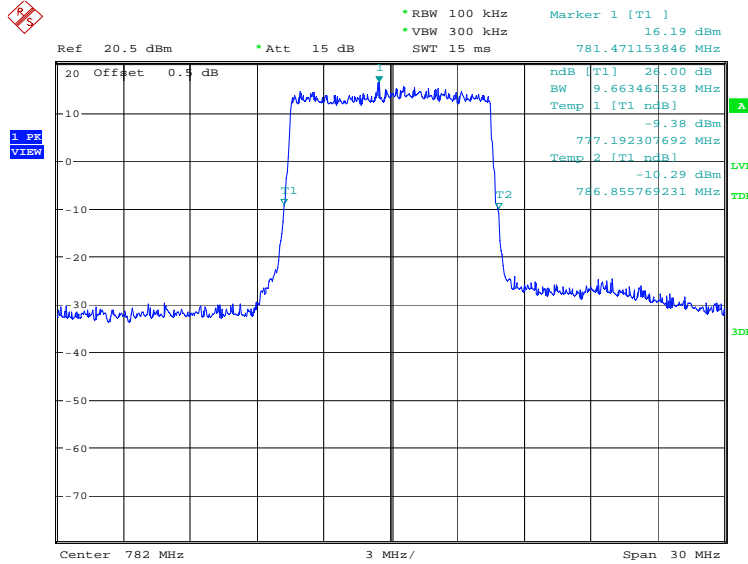


Date: 8.MAR.2021 18:22:53

LTE band 13, 10MHz (-26dBc)

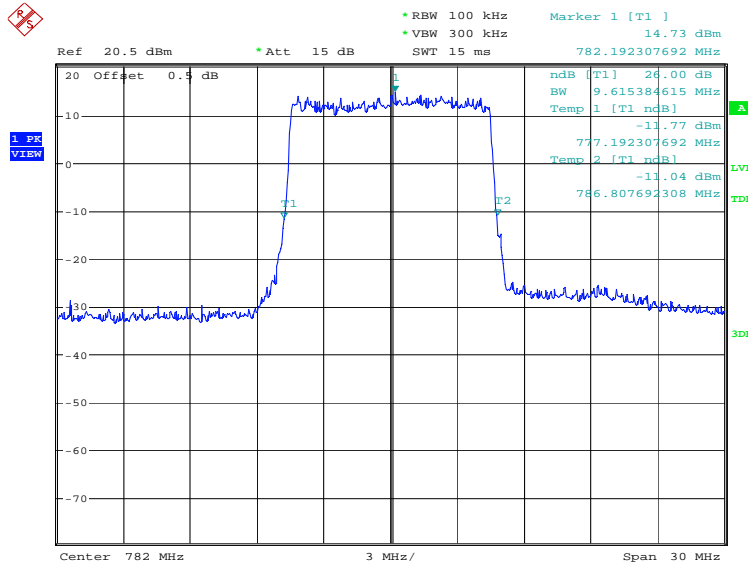
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9663.46	9615.38

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



Date: 8.MAR.2021 18:24:22

LTE band 13, 10MHz Bandwidth,16QAM (-26dBc BW)

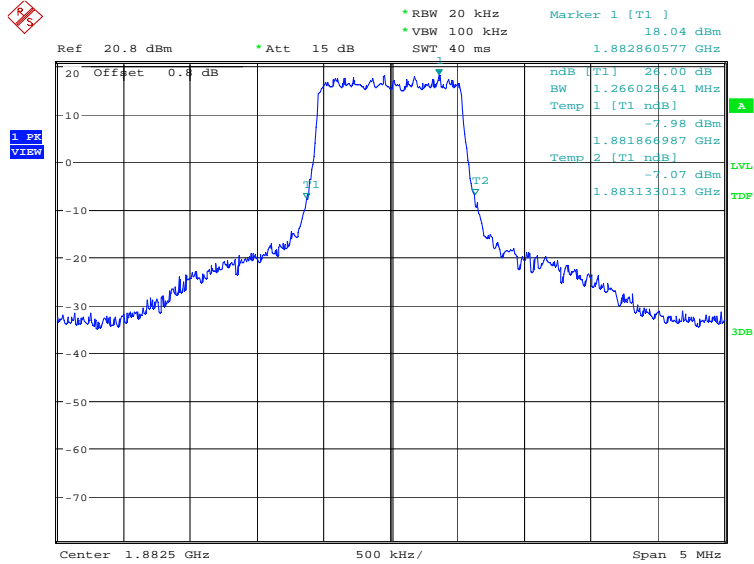


Date: 8.MAR.2021 18:25:02

LTE band 25, 1.4MHz (-26dBc)

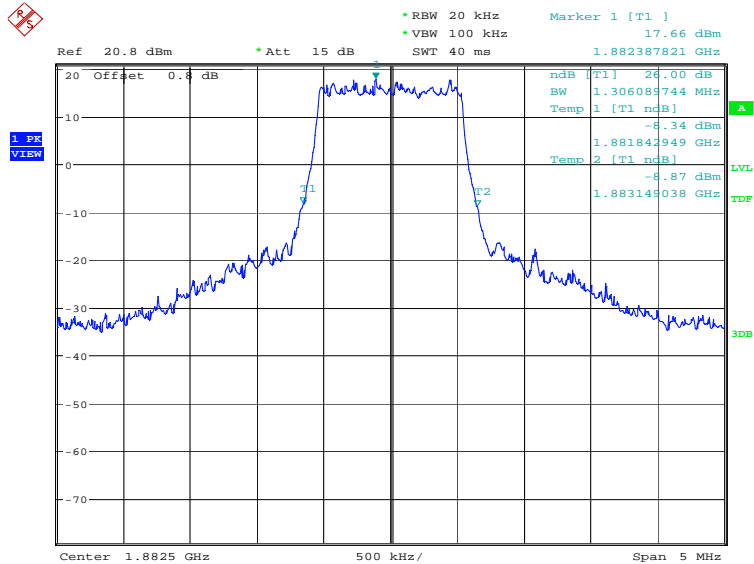
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1266.03	1306.09

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



Date: 8.MAR.2021 16:48:32

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

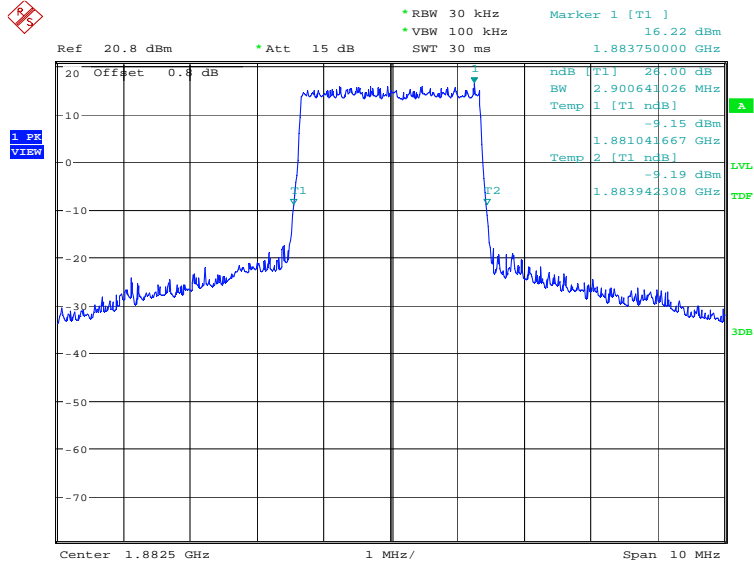


Date: 8.MAR.2021 16:49:12

LTE band 25, 3MHz (-26dBc)

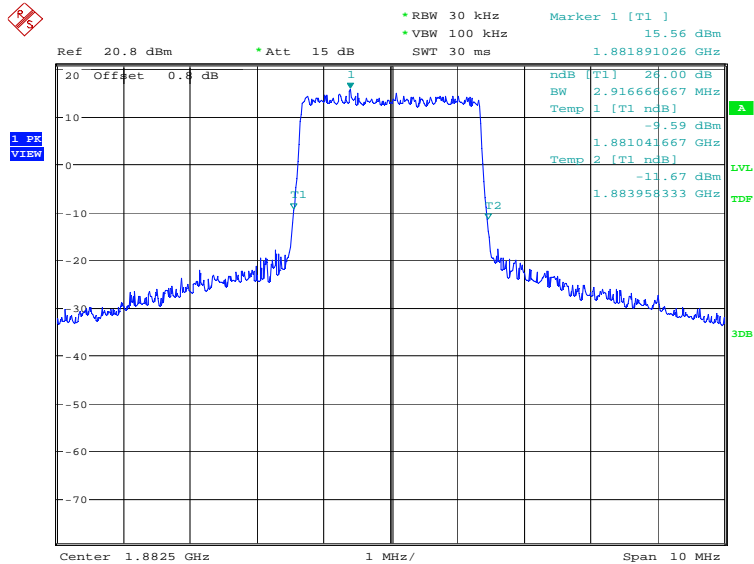
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2900.64	2916.67

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



Date: 8.MAR.2021 16:50:41

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

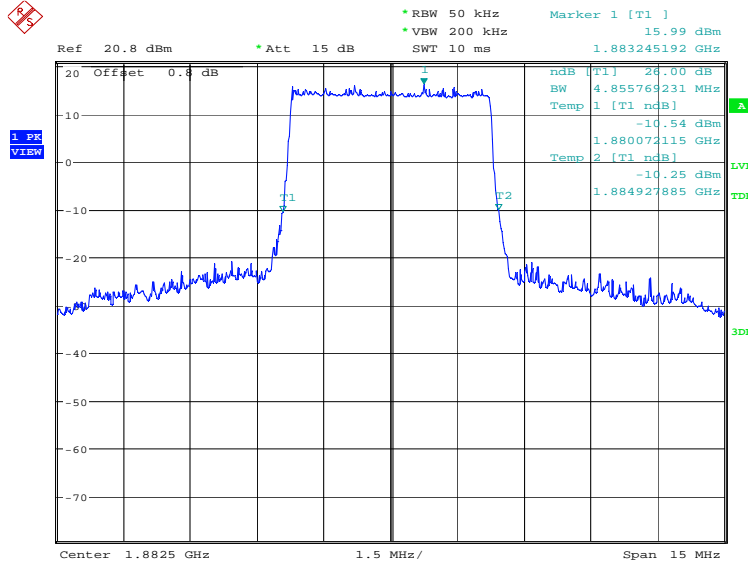


Date: 8.MAR.2021 16:51:21

LTE band 25, 5MHz (-26dBc)

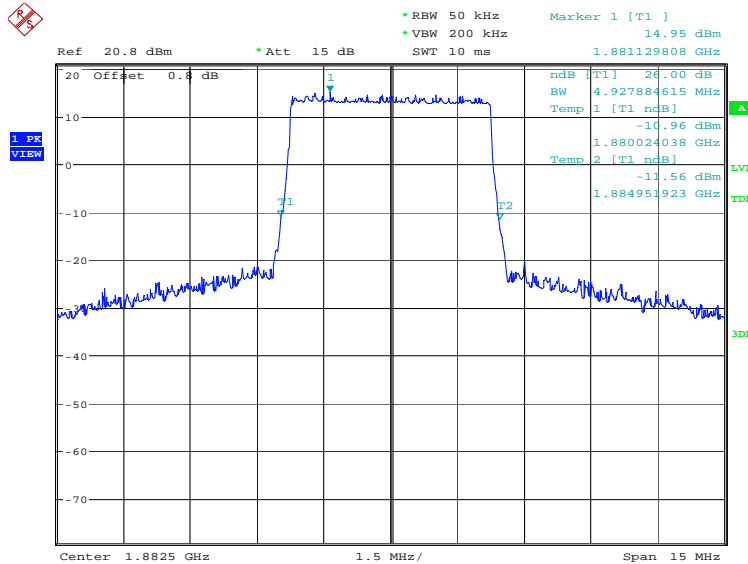
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	4855.77	4927.88

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



Date: 8.MAR.2021 16:52:49

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

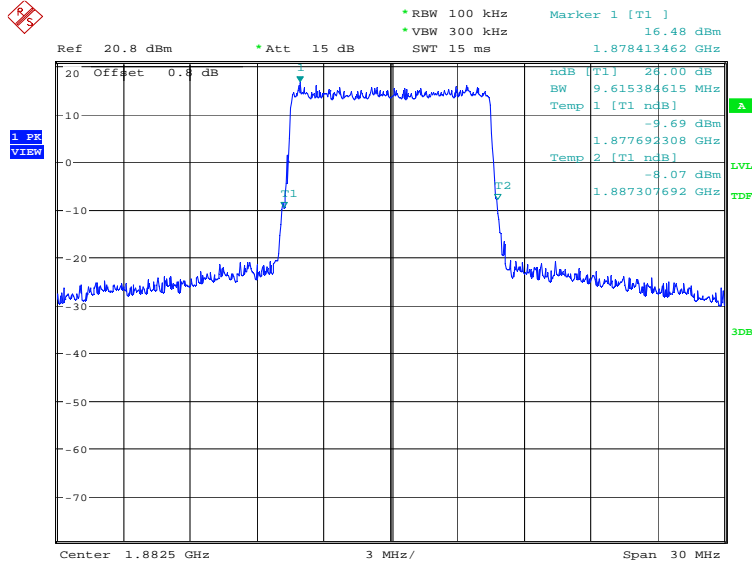


Date: 8.MAR.2021 16:53:29

LTE band 25, 10MHz (-26dBc)

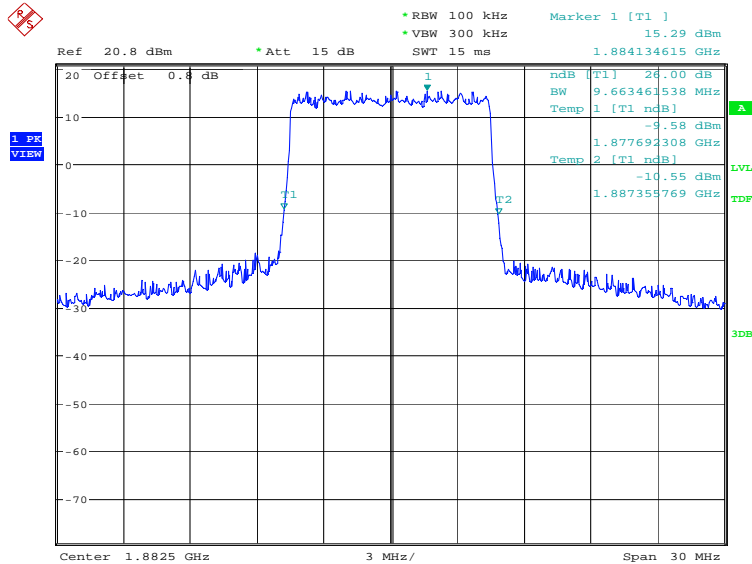
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9615.38	9663.46

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



Date: 8.MAR.2021 16:54:58

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

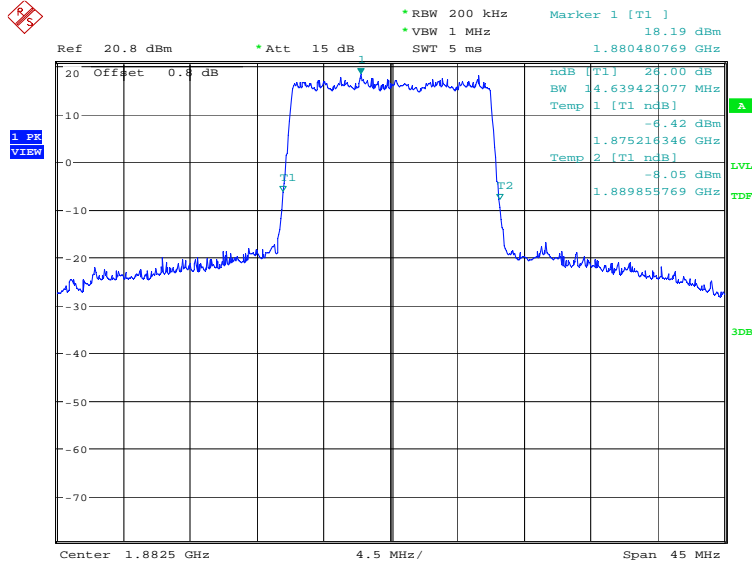


Date: 8.MAR.2021 16:55:37

LTE band 25, 15MHz (-26dBc)

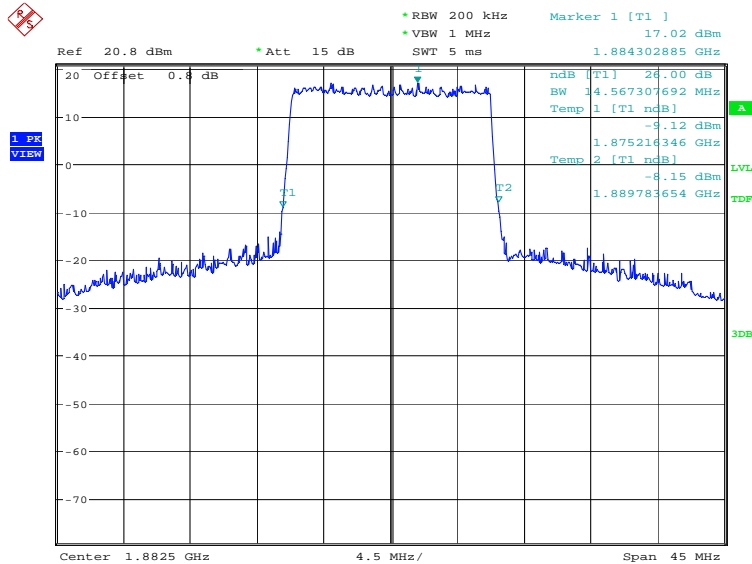
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14639.42	14567.31

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



Date: 8.MAR.2021 16:57:06

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

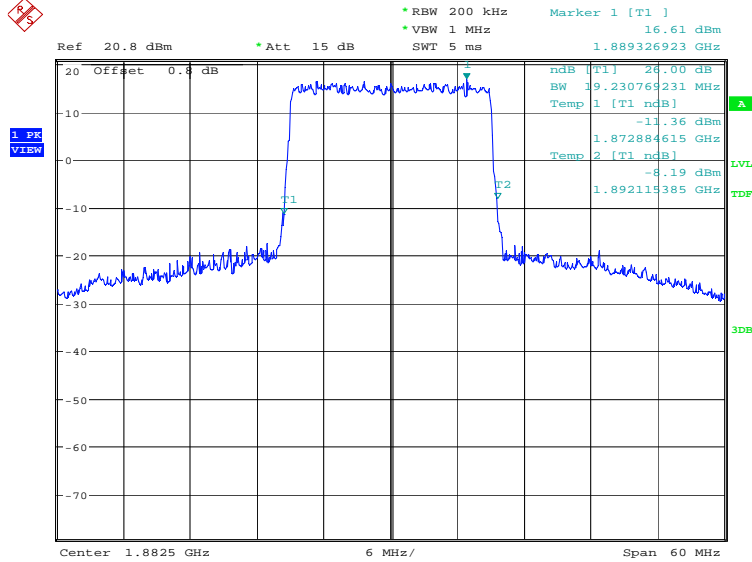


Date: 8.MAR.2021 16:57:46

LTE band 25, 20MHz (-26dBc)

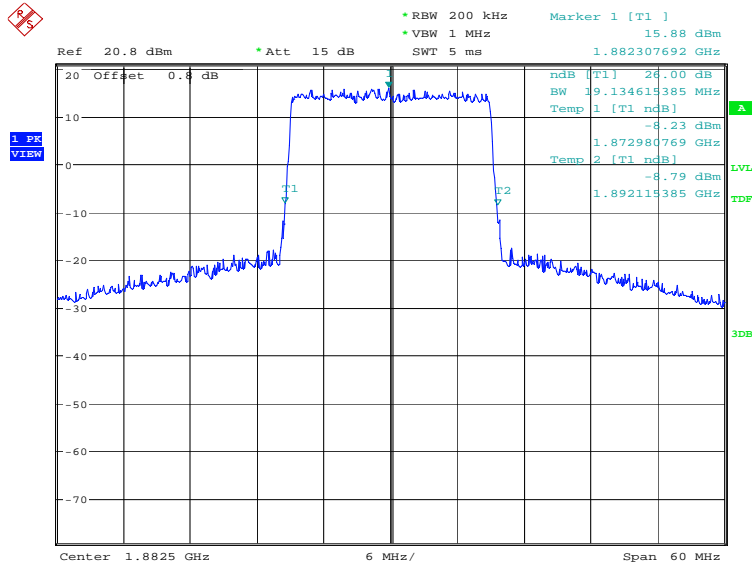
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19230.77	19134.62

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



Date: 8.MAR.2021 16:59:15

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

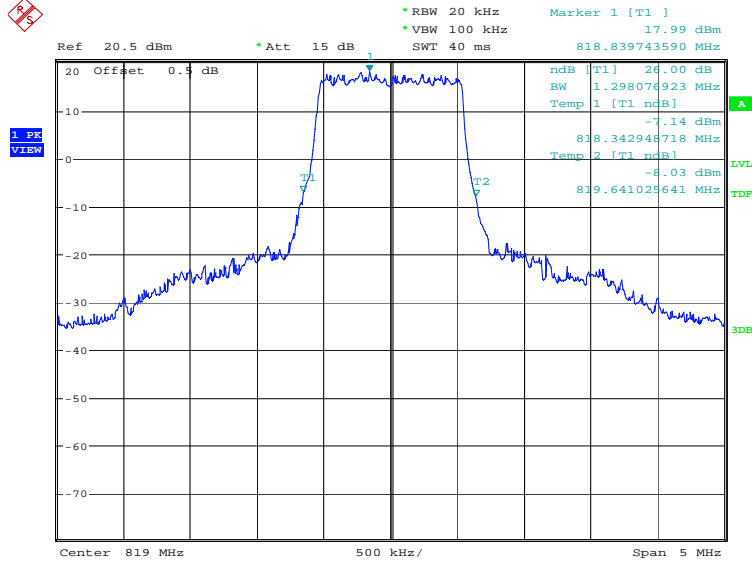


Date: 8.MAR.2021 16:59:55

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

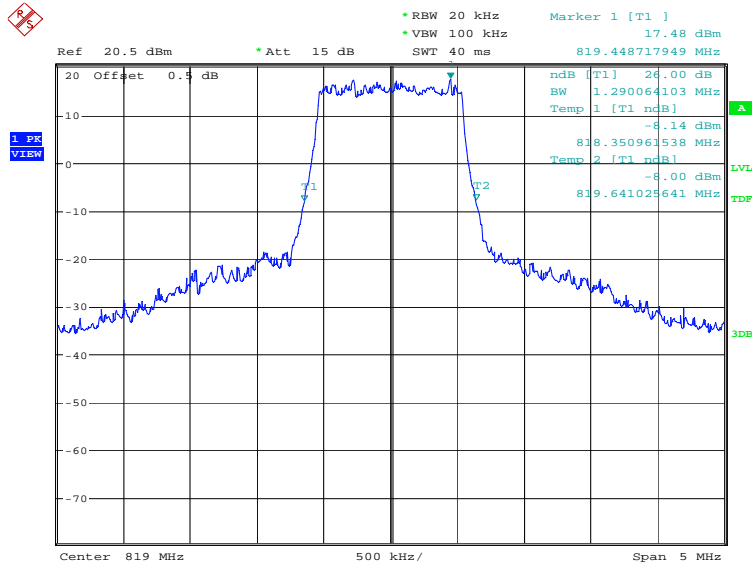
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1298.08	1290.06

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



Date: 8.MAR.2021 18:36:30

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

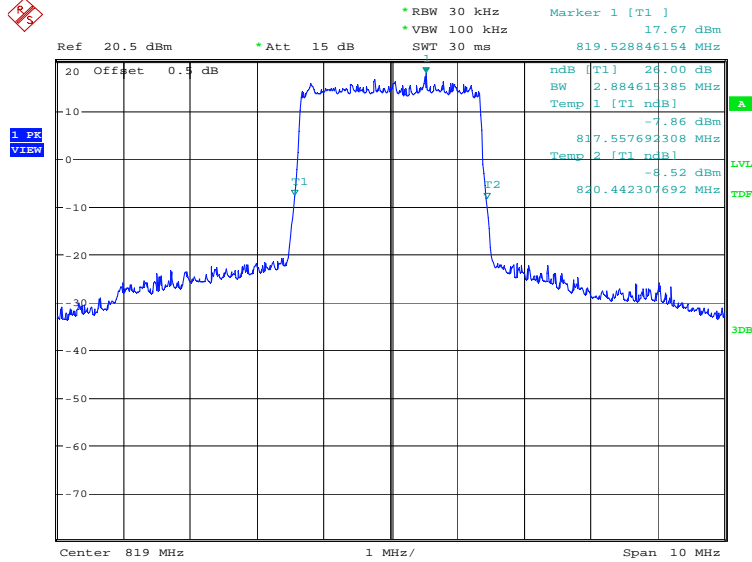


Date: 8.MAR.2021 18:37:10

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

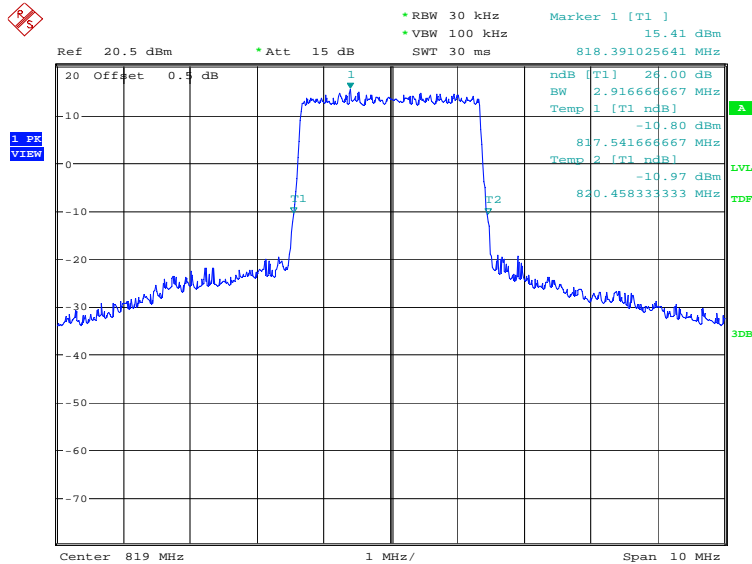
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2884.62	2916.67

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



Date: 8.MAR.2021 18:38:39

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

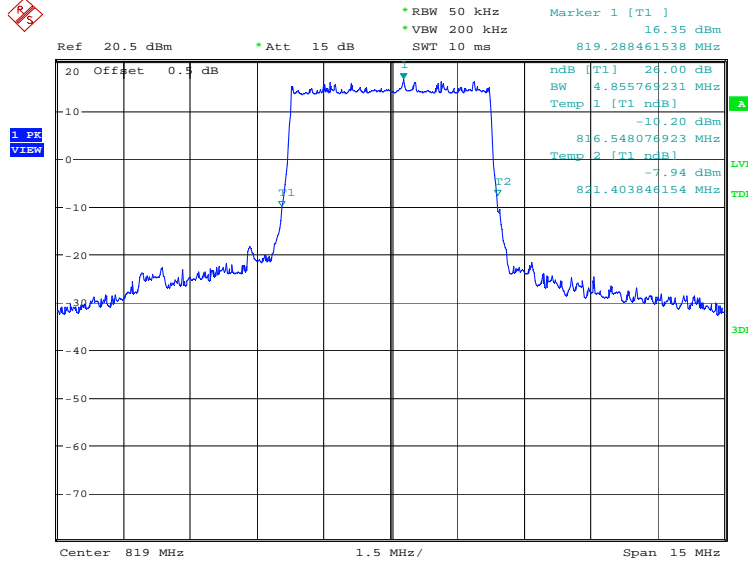


Date: 8.MAR.2021 18:39:19

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

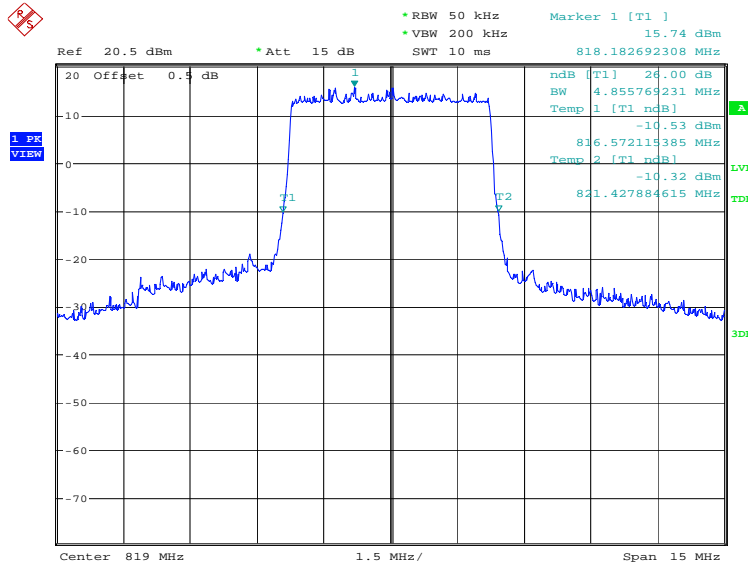
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4855.77	4855.77

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



Date: 8.MAR.2021 18:40:48

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

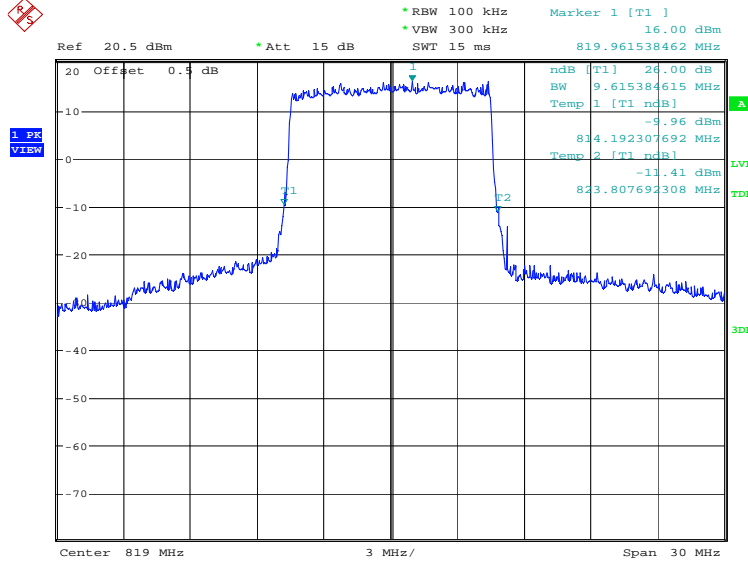


Date: 8.MAR.2021 18:41:28

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

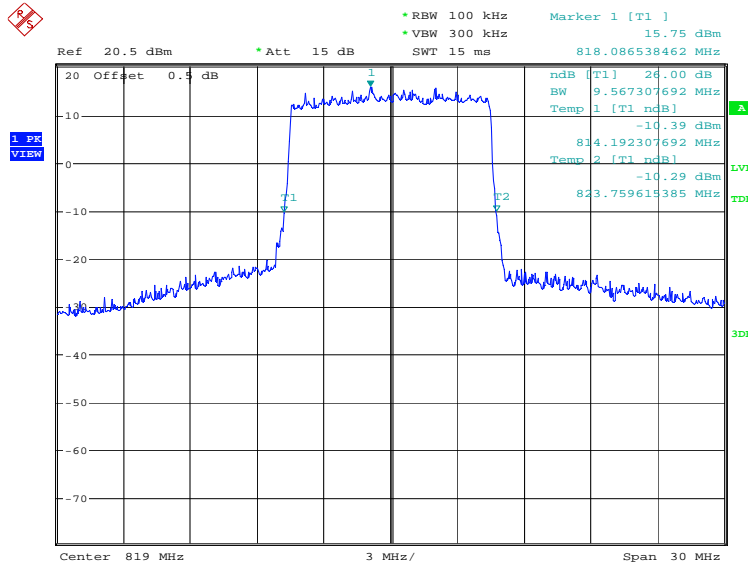
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9615.38	9567.31

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



Date: 8.MAR.2021 18:42:57

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

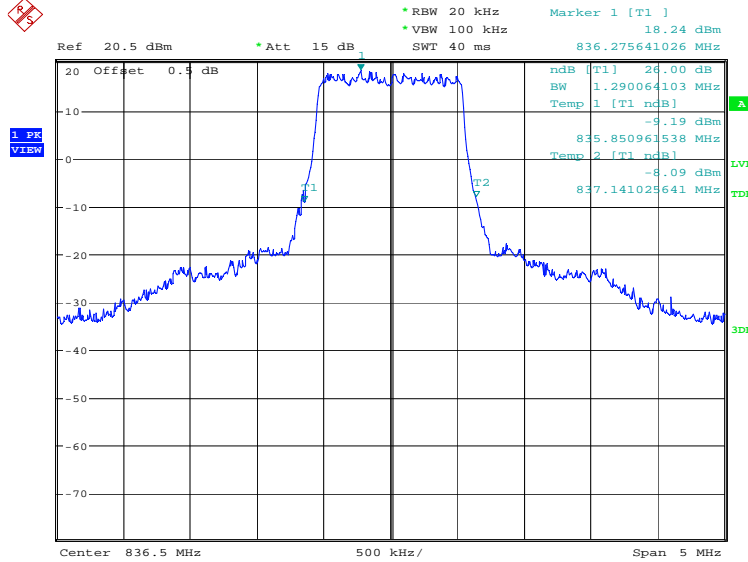


Date: 8.MAR.2021 18:43:37

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

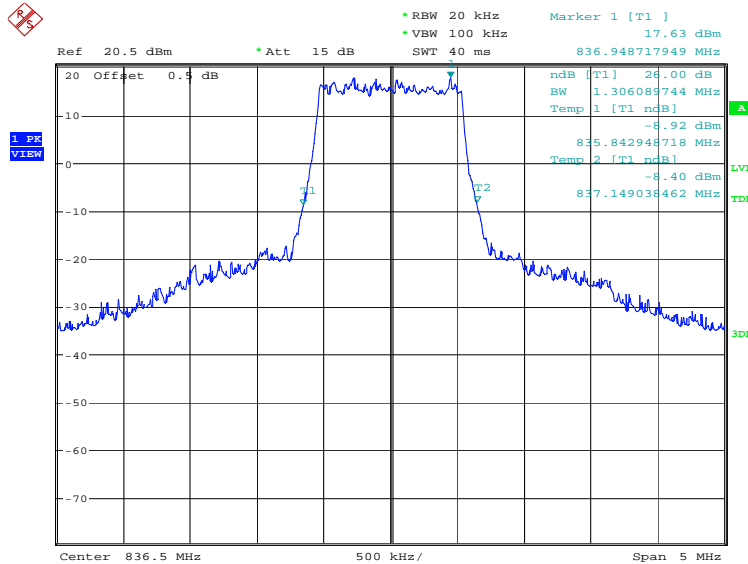
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1290.06	1306.09

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



Date: 8.MAR.2021 18:25:55

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

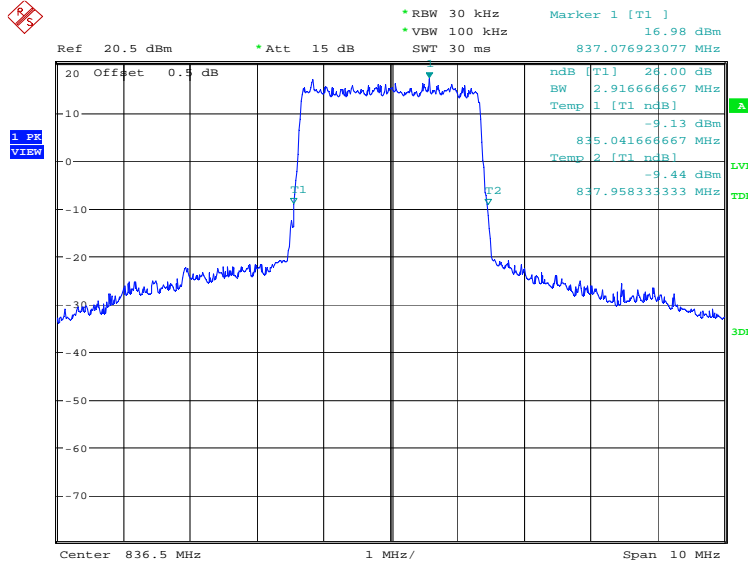


Date: 8.MAR.2021 18:26:35

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

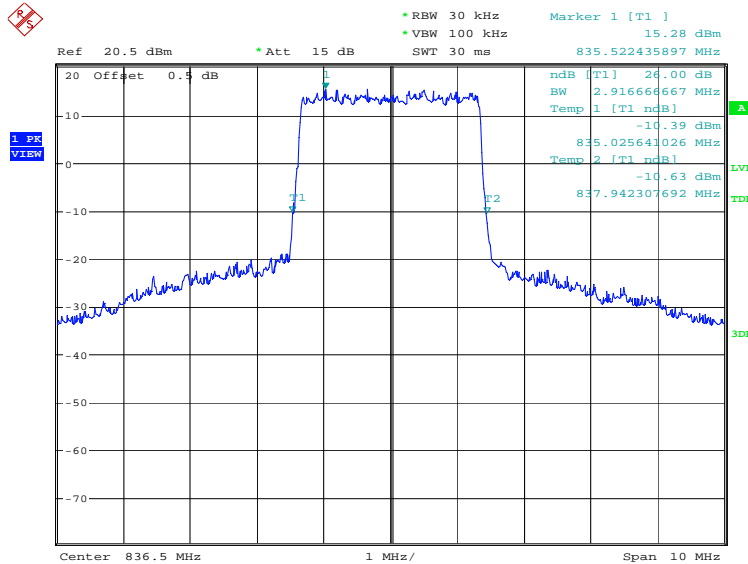
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2916.67	2916.67

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



Date: 8.MAR.2021 18:28:04

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

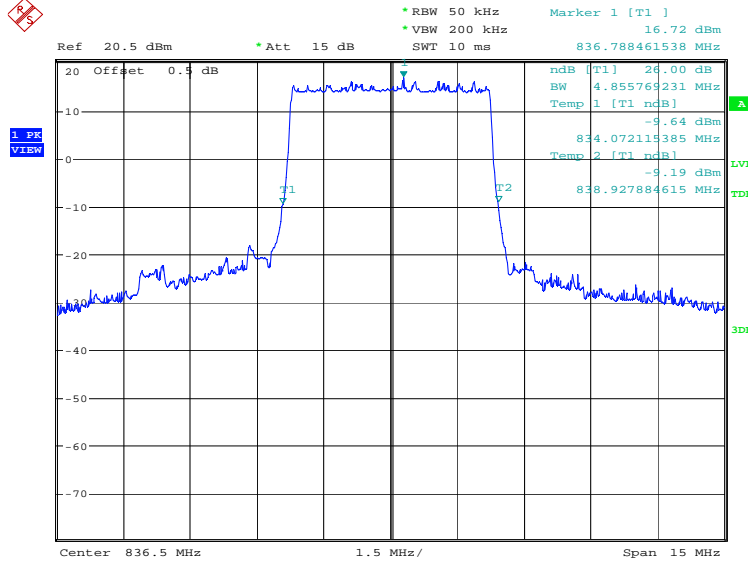


Date: 8.MAR.2021 18:28:44

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

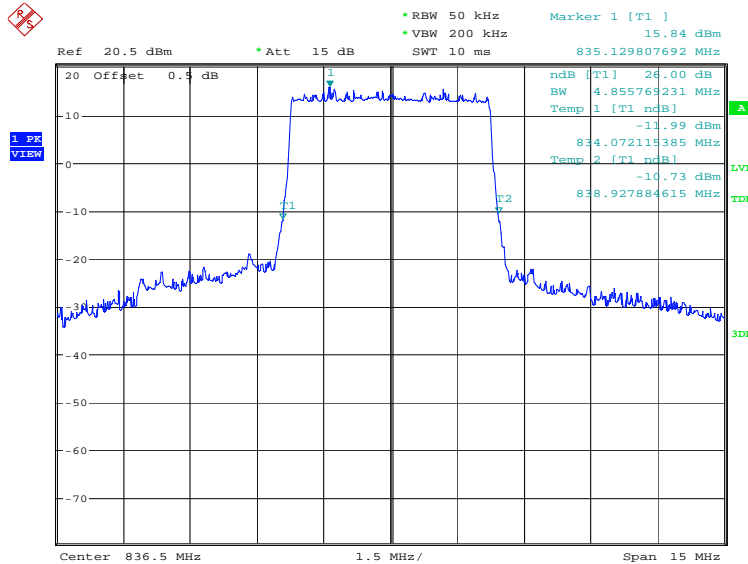
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4855.77	4855.77

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



Date: 8.MAR.2021 18:30:13

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

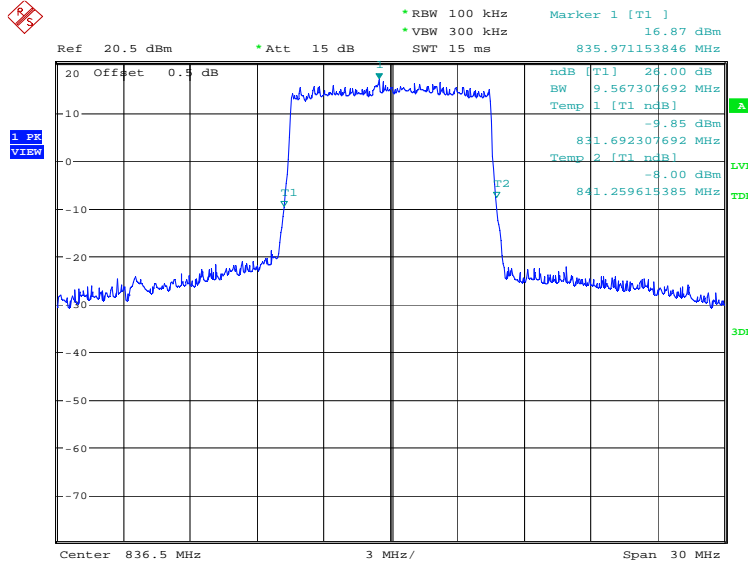


Date: 8.MAR.2021 18:30:52

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

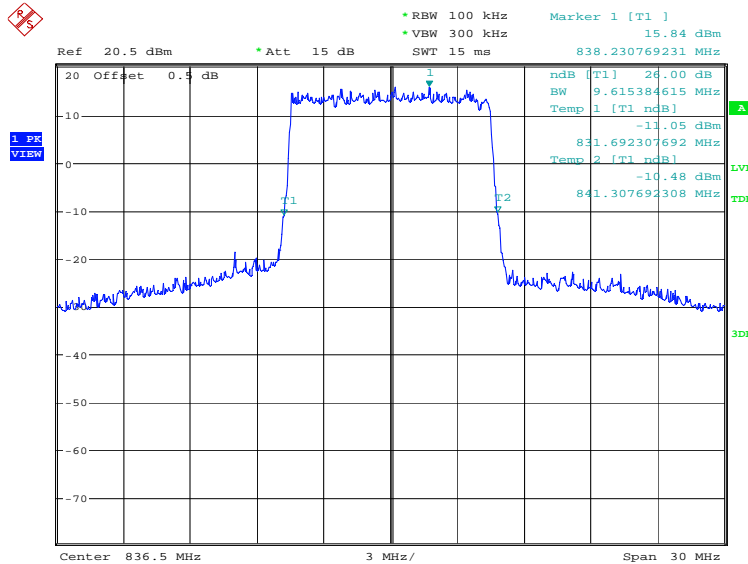
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9567.31	9615.38

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



Date: 8.MAR.2021 18:32:21

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

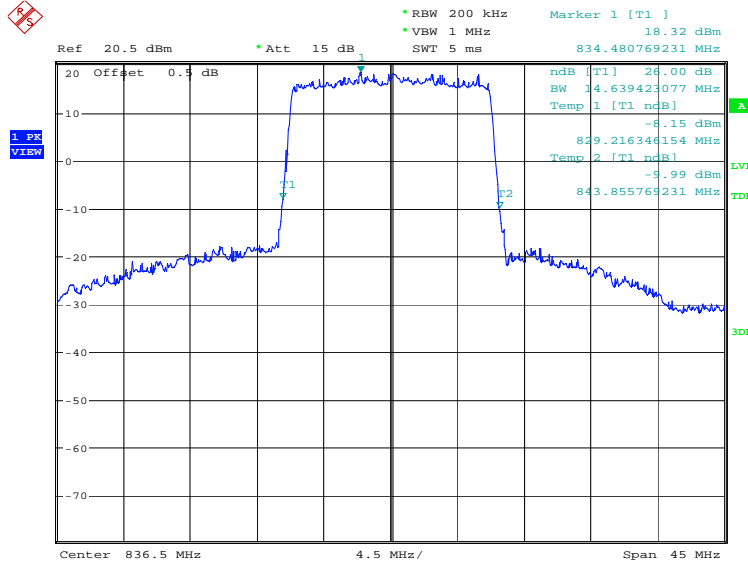


Date: 8.MAR.2021 18:33:01

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

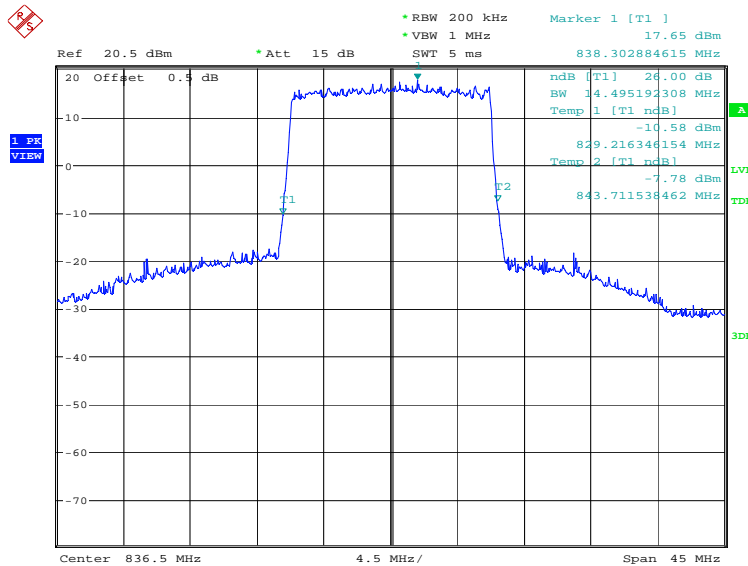
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14639.42	14495.19

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



Date: 8.MAR.2021 18:34:31

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

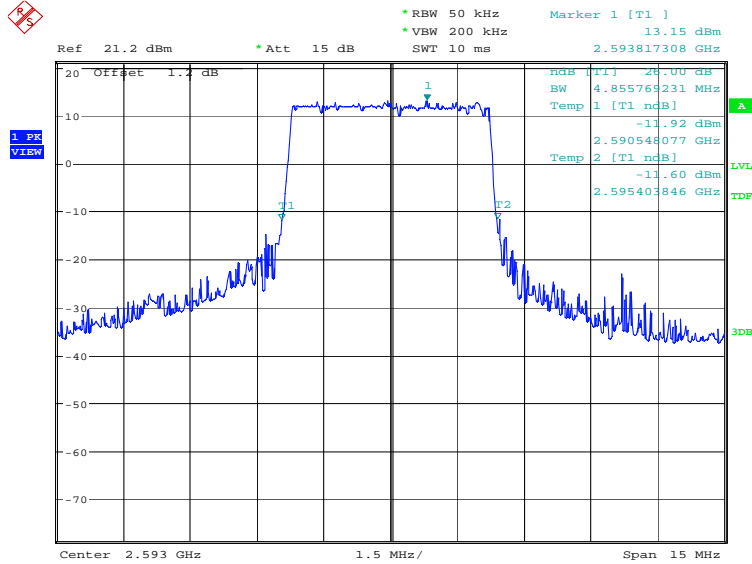


Date: 8.MAR.2021 18:35:10

LTE band 41, 5MHz (-26dBc)

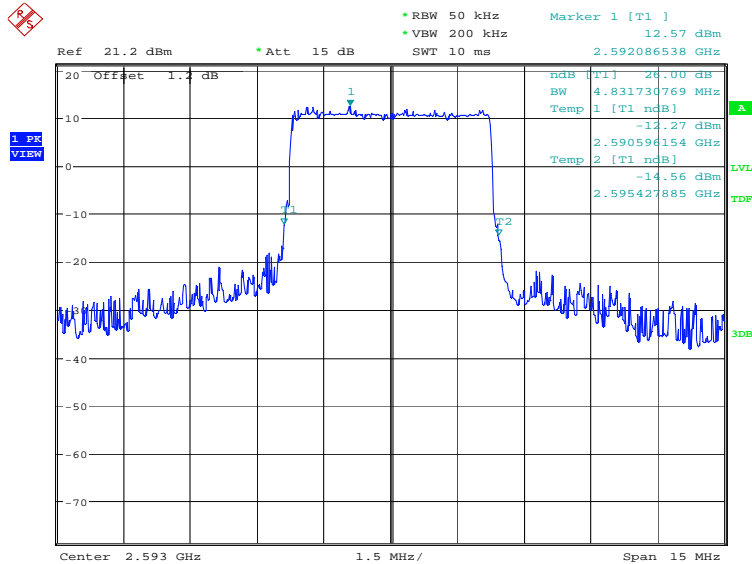
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4855.77	4831.73

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



Date: 9.MAR.2021 10:34:38

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

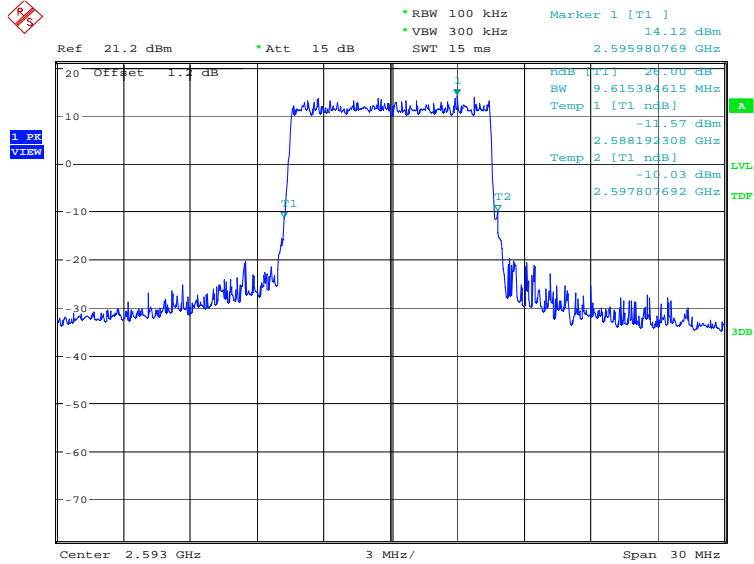


Date: 9.MAR.2021 10:35:17

LTE band 41, 10MHz (-26dBc)

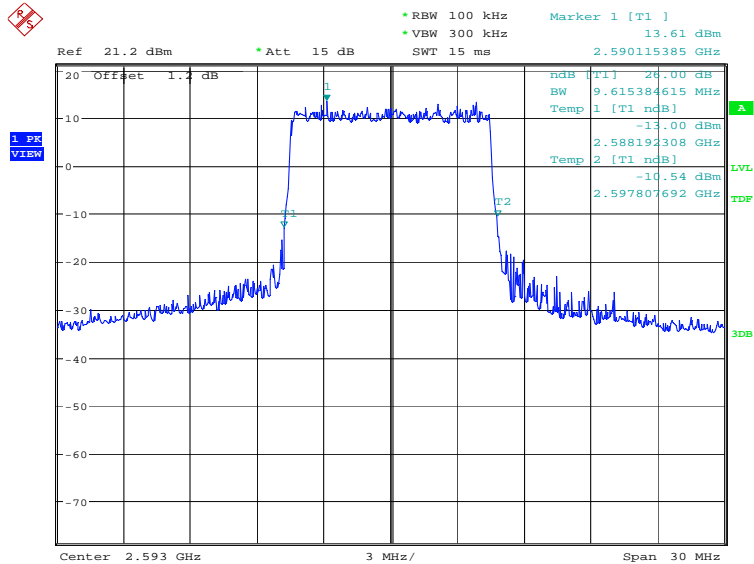
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9615.38	9615.38

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



Date: 9.MAR.2021 10:36:46

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

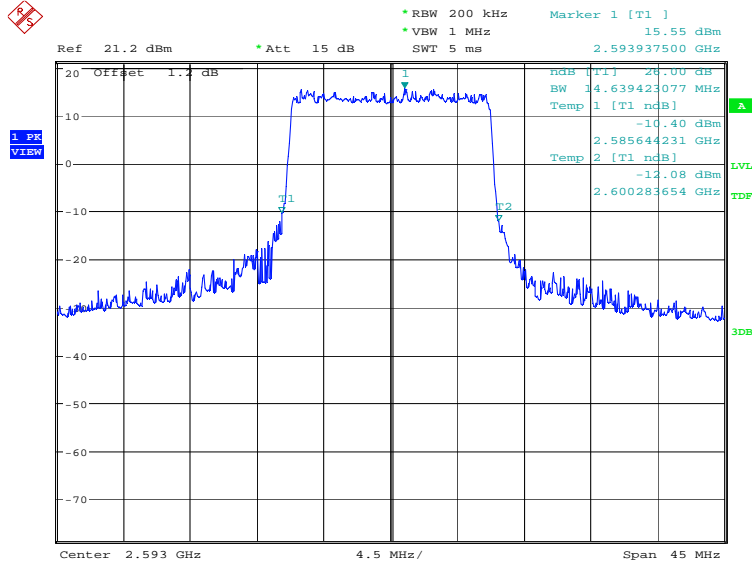


Date: 9.MAR.2021 10:37:26

LTE band 41, 15MHz (-26dBc)

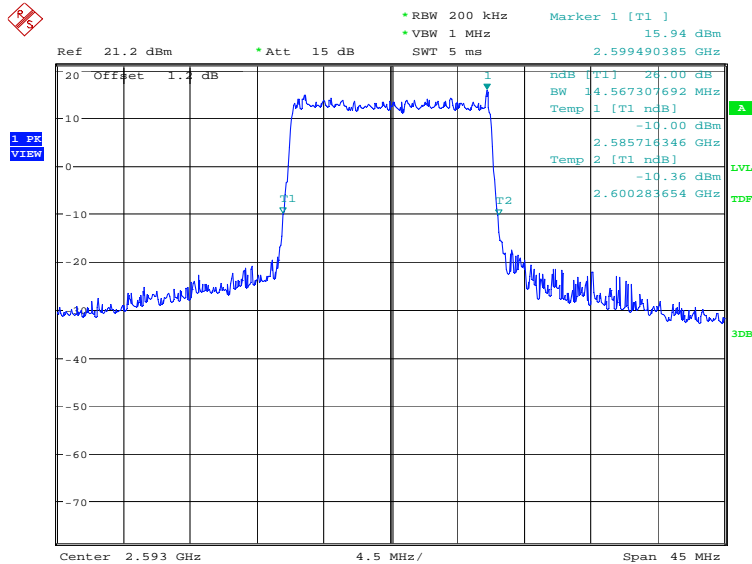
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14639.42	14567.31

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



Date: 9.MAR.2021 10:38:54

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

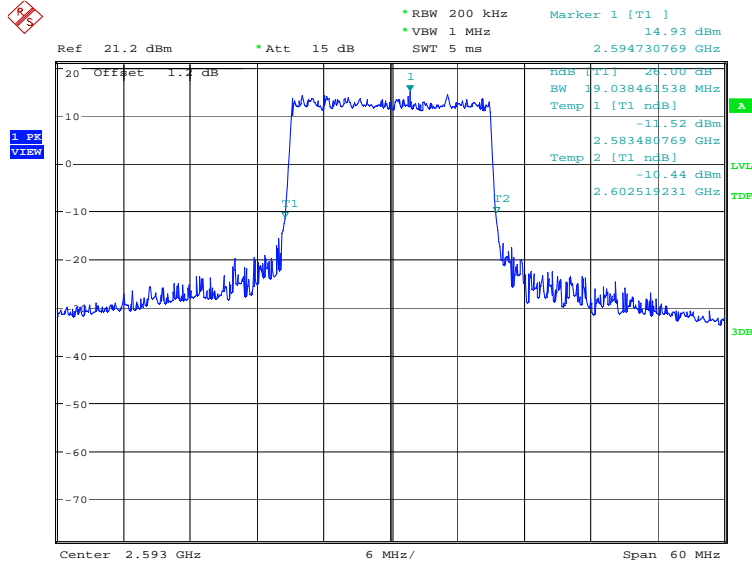


Date: 9.MAR.2021 10:39:34

LTE band 41, 20MHz (-26dBc)

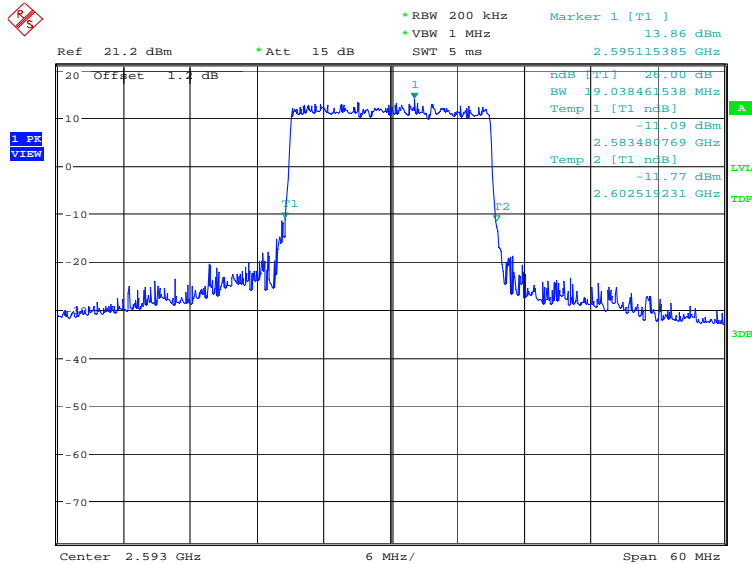
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19038.46	19038.46

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



Date: 9.MAR.2021 10:41:03

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

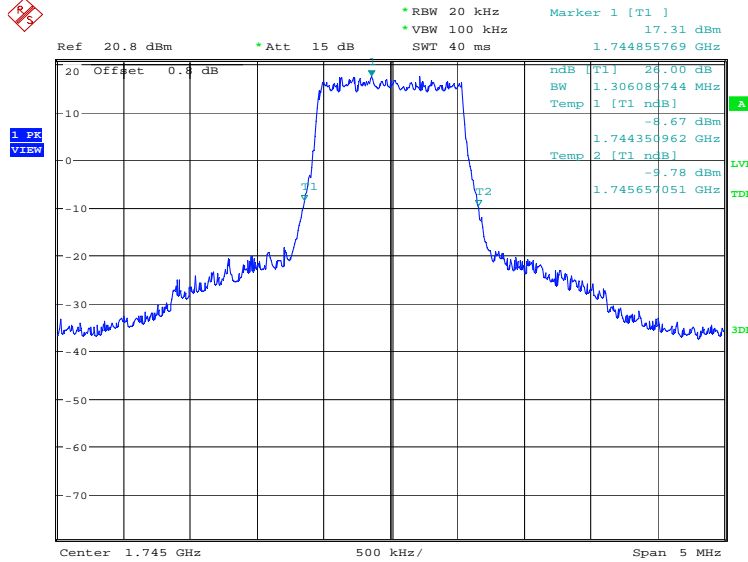


Date: 9.MAR.2021 10:41:42

LTE band 66, 1.4MHz (-26dBc)

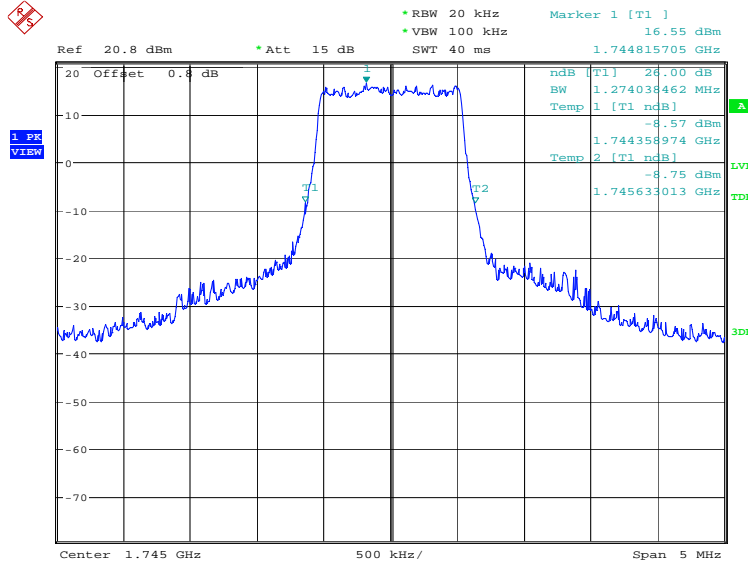
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1306.09	1274.04

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



Date: 8.MAR.2021 17:01:25

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

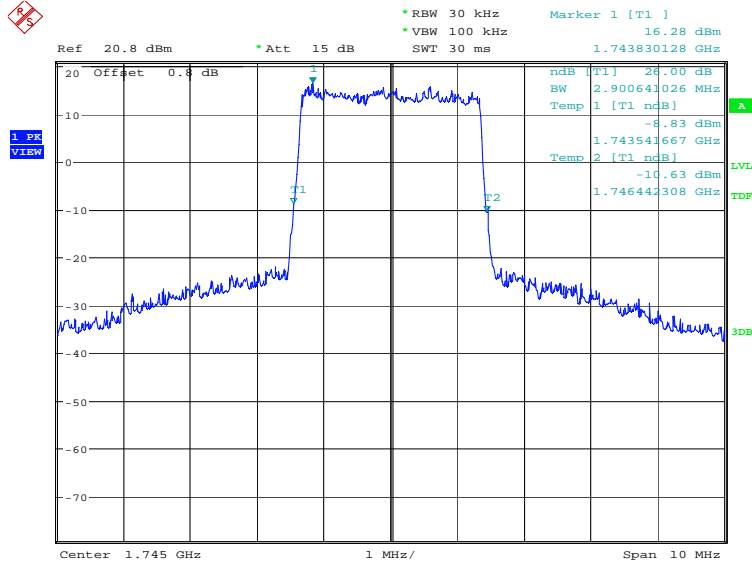


Date: 8.MAR.2021 17:02:05

LTE band 66, 3MHz (-26dBc)

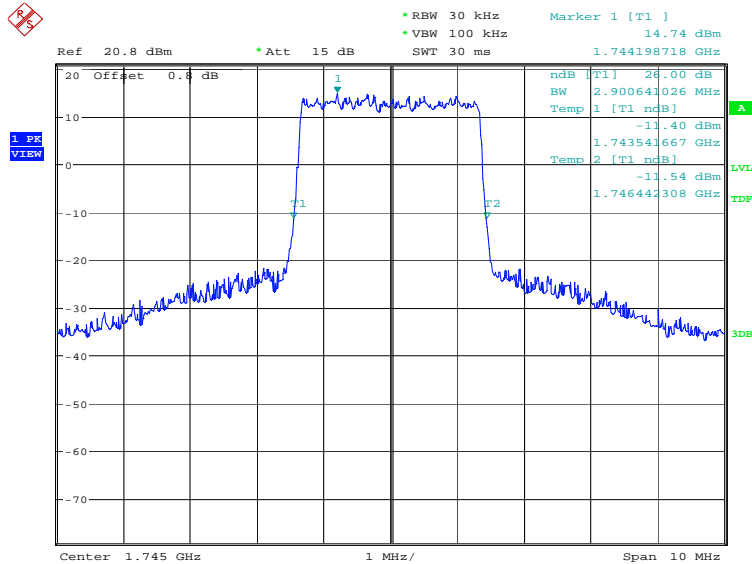
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2900.64	2900.64

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



Date: 8.MAR.2021 17:03:34

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

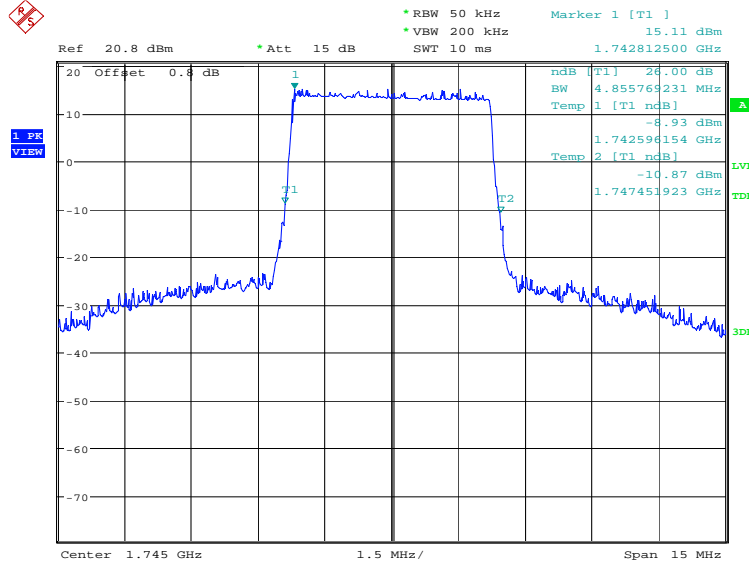


Date: 8.MAR.2021 17:04:13

LTE band 66, 5MHz (-26dBc)

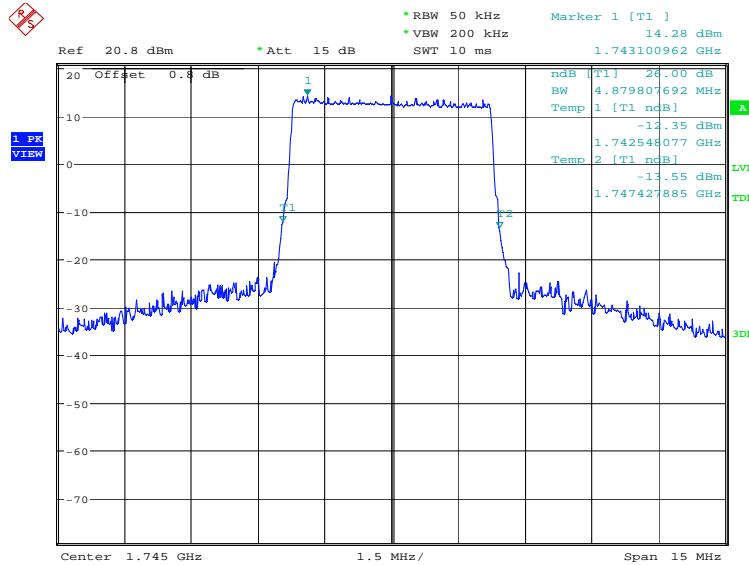
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4855.77	4879.81

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



Date: 8.MAR.2021 17:05:42

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

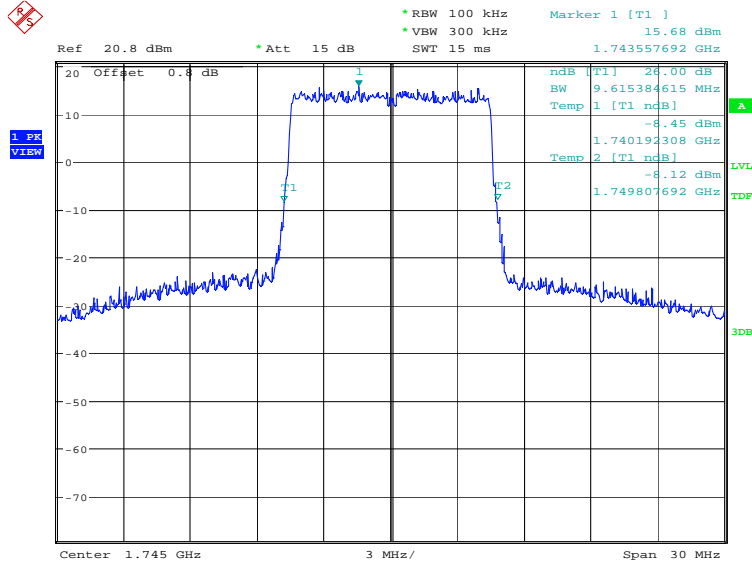


Date: 8.MAR.2021 17:06:22

LTE band 66, 10MHz (-26dBc)

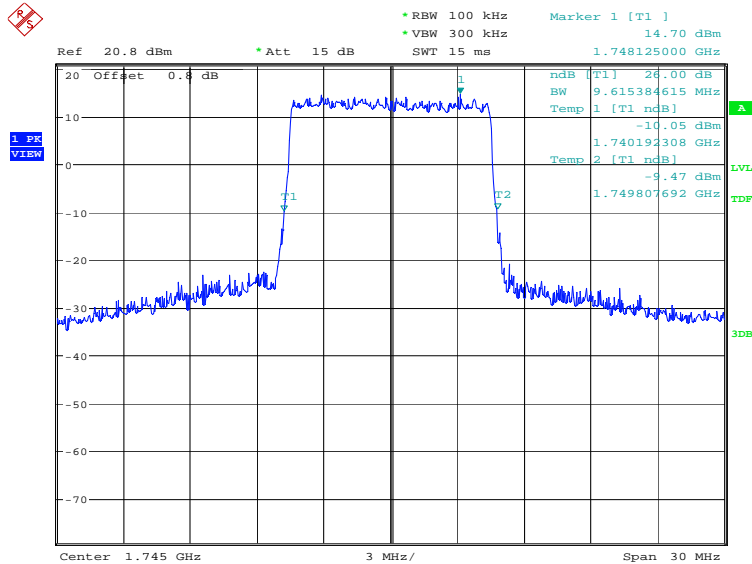
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9615.38	9615.38

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



Date: 8.MAR.2021 17:07:51

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

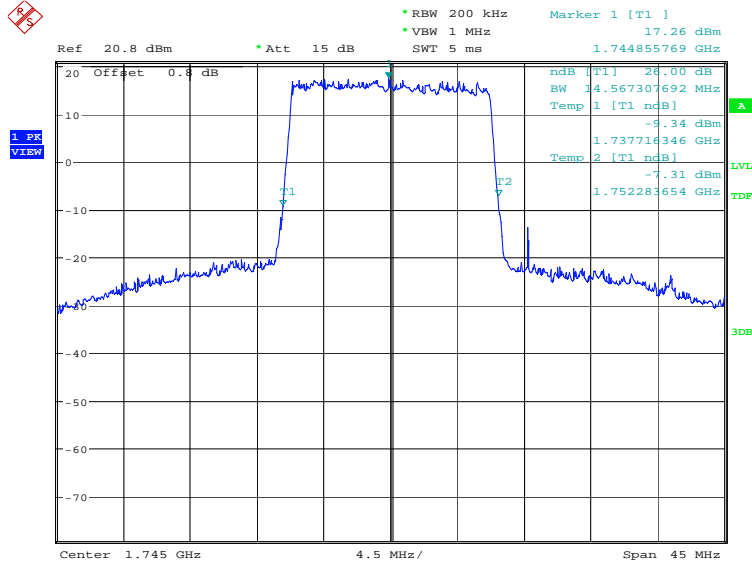


Date: 8.MAR.2021 17:08:31

LTE band 66, 15MHz (-26dBc)

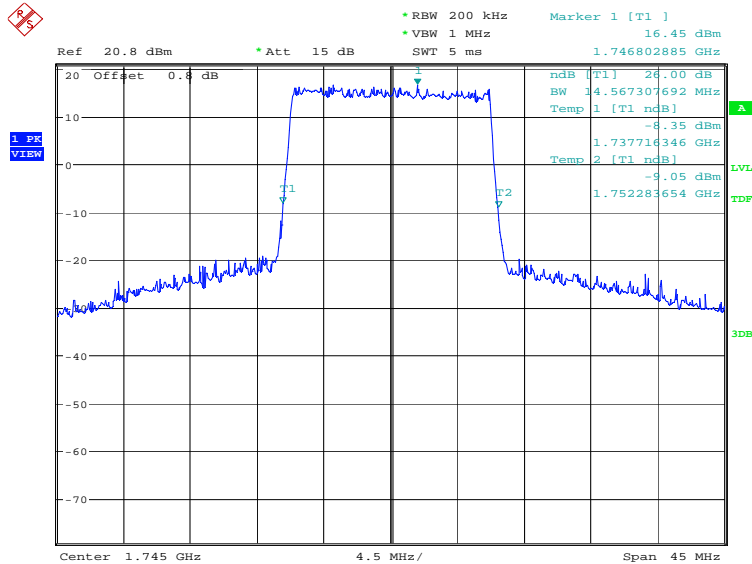
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14567.31	14567.31

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



Date: 8.MAR.2021 17:10:00

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

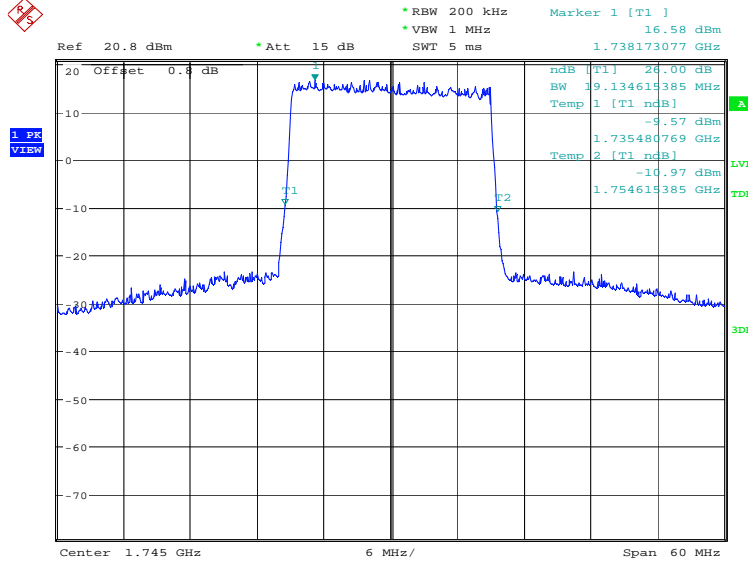


Date: 8.MAR.2021 17:10:40

LTE band 66, 20MHz (-26dBc)

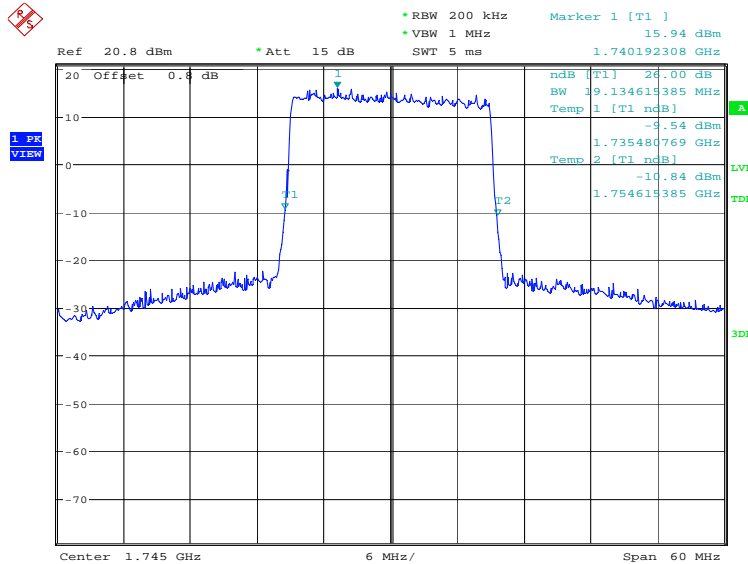
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19134.62	19134.62

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



Date: 8.MAR.2021 17:12:09

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

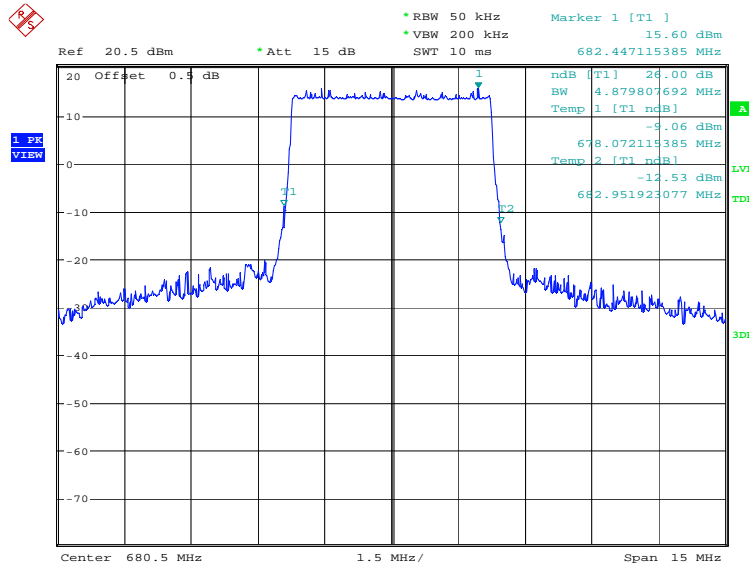


Date: 8.MAR.2021 17:12:49

LTE band 71, 5MHz (-26dBc)

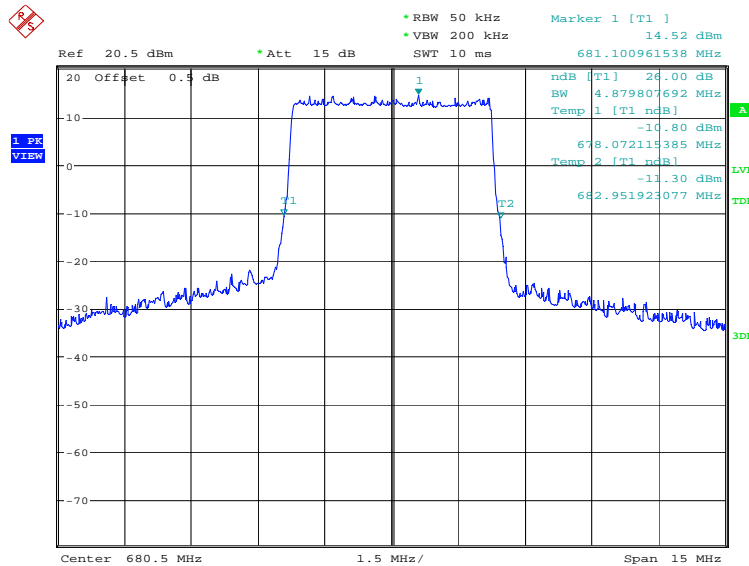
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	4879.81	4879.81

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



Date: 8.MAR.2021 15:59:41

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

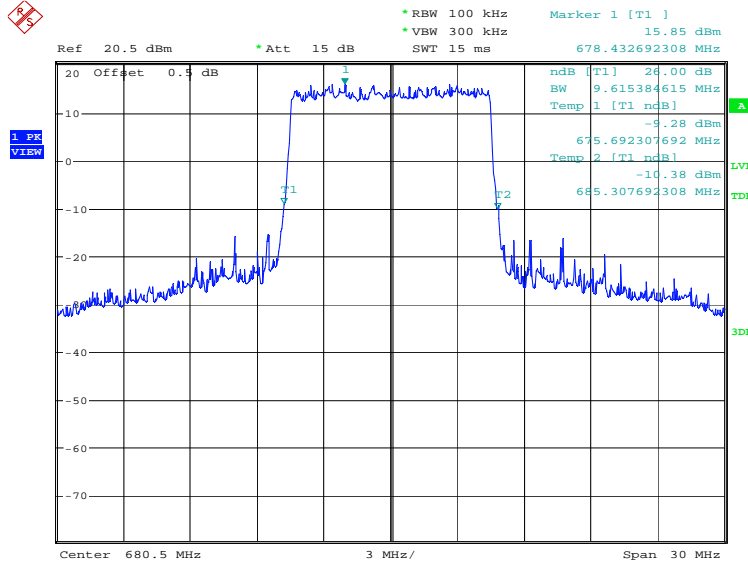


Date: 8.MAR.2021 16:00:21

LTE band 71, 10MHz (-26dBc)

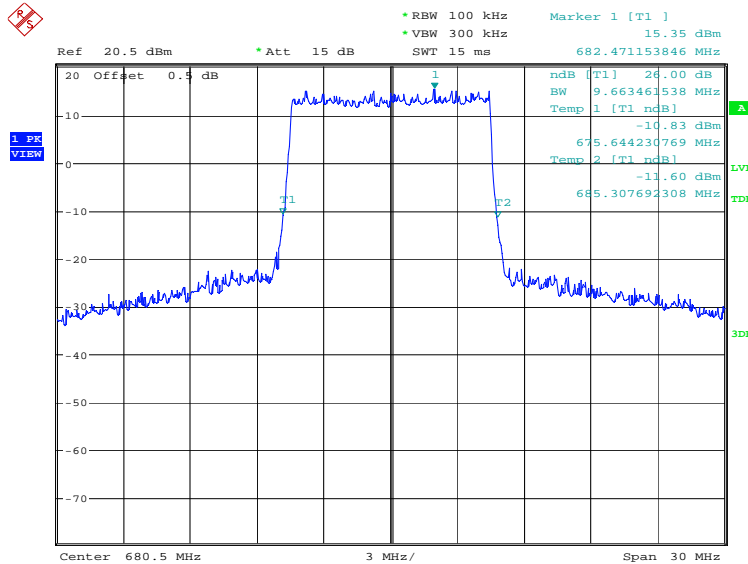
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9615.38	9663.46

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



Date: 8.MAR.2021 16:01:50

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

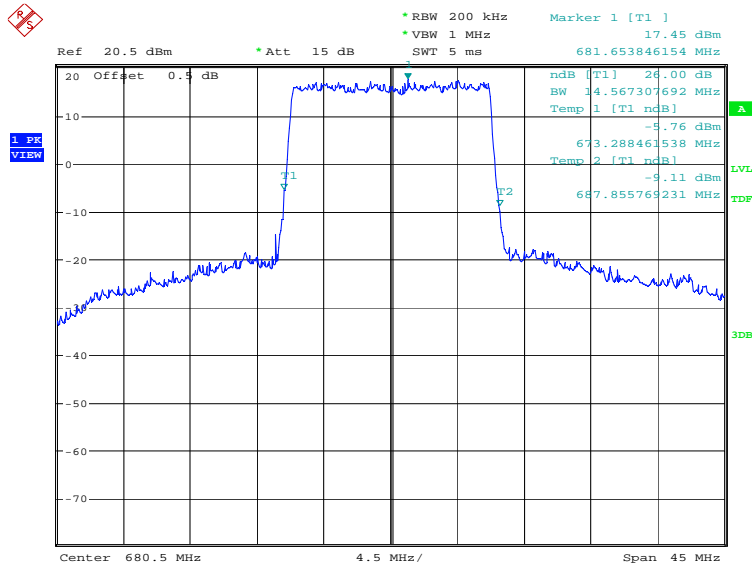


Date: 8.MAR.2021 16:02:29

LTE band 71, 15MHz (-26dBc)

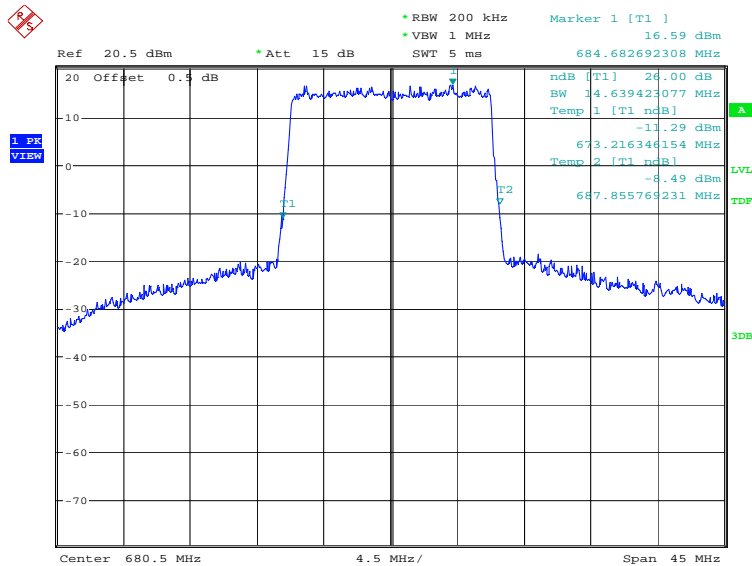
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	14567.31	14639.42

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



Date: 8.MAR.2021 16:03:58

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

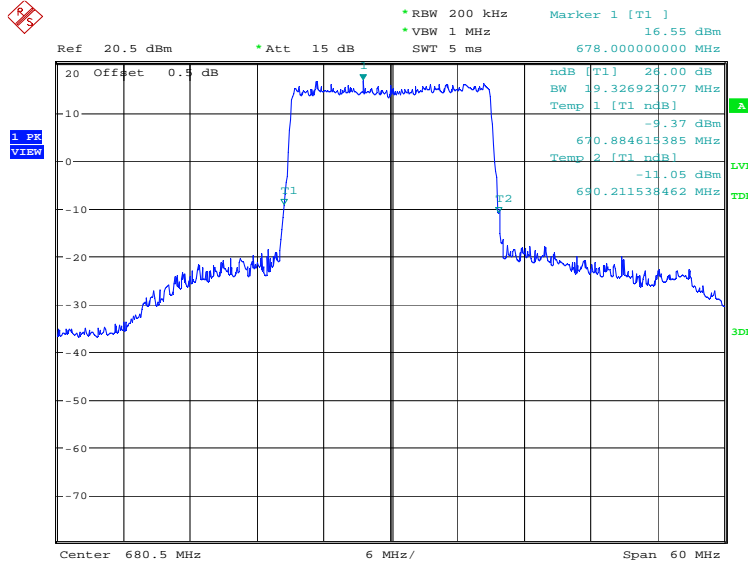


Date: 8.MAR.2021 16:04:38

LTE band 71, 20MHz (-26dBc)

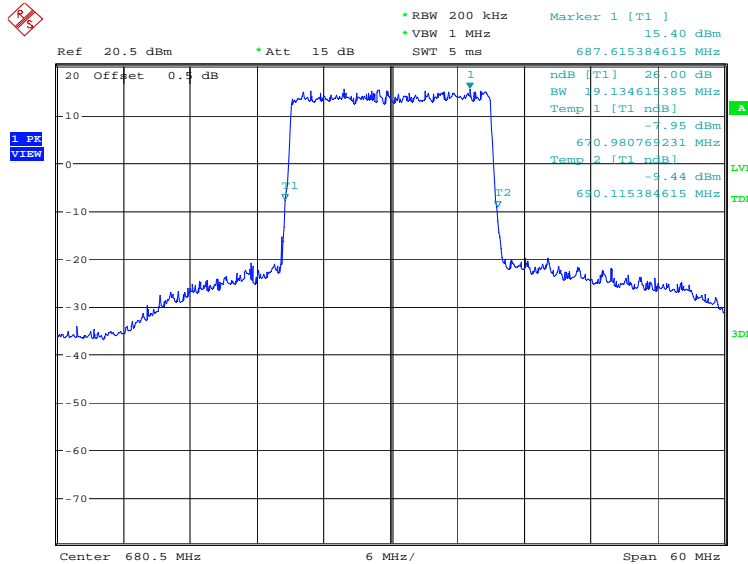
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19326.92	19134.62

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



Date: 8.MAR.2021 16:06:07

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



Date: 8.MAR.2021 16:06:46

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(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

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.

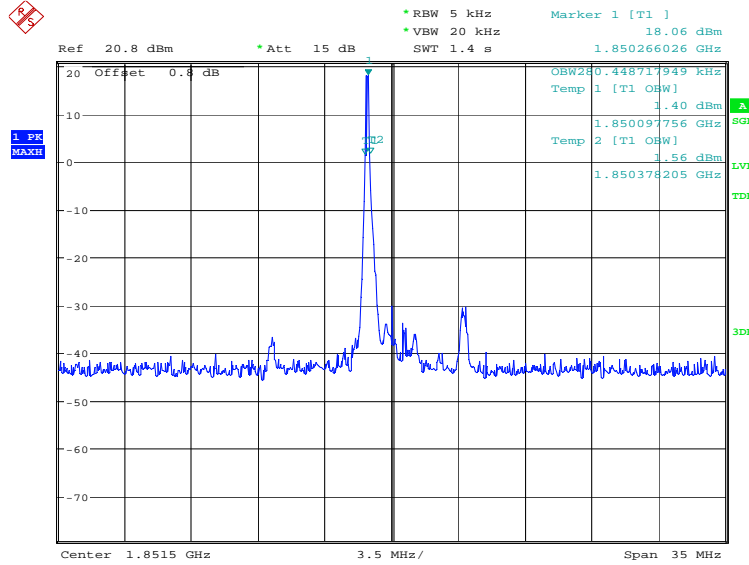
The spectrum analyzer readings are corrected by $[10 \log (1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

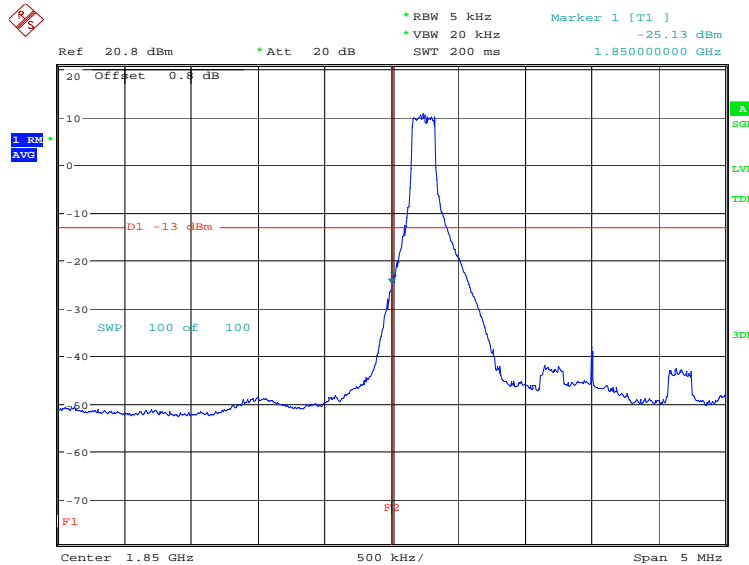
LTE band 2

OBW: 1RB-low_offset



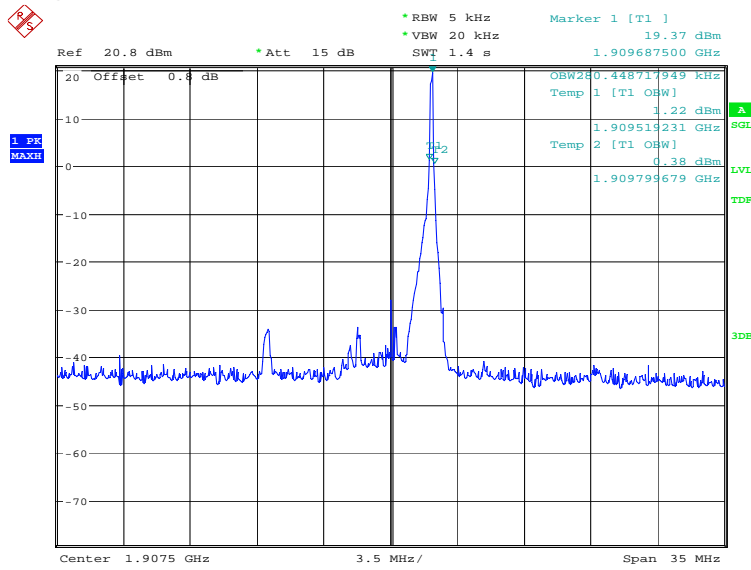
Date: 27.APR.2021 09:09:11

LOW BAND EDGE BLOCK-1RB-low_offset



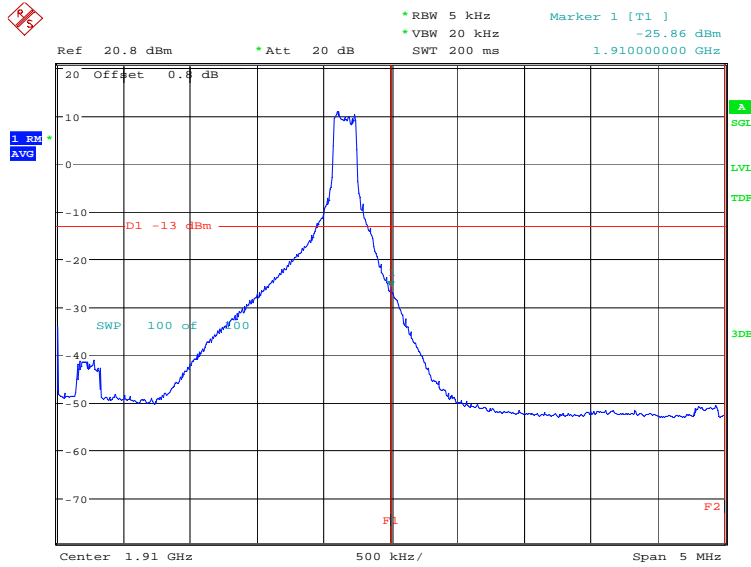
Date: 27.APR.2021 09:10:25

OBW: 1RB-high_offset



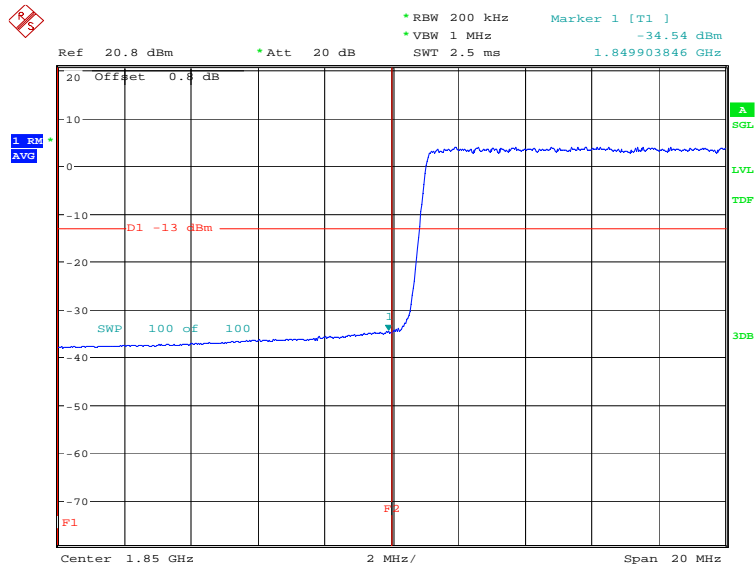
Date: 27.APR.2021 09:11:11

HIGH BAND EDGE BLOCK-1RB-high_offset



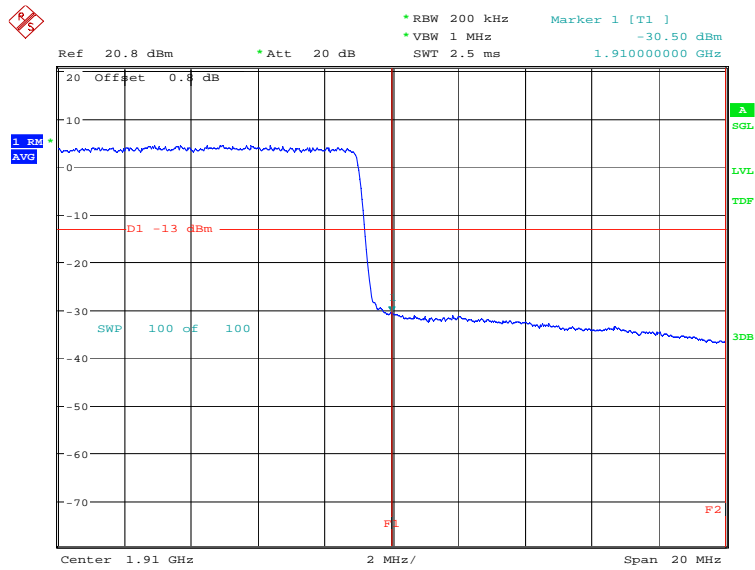
Date: 27.APR.2021 09:12:25

LOW BAND EDGE BLOCK-20MHz-100%RB



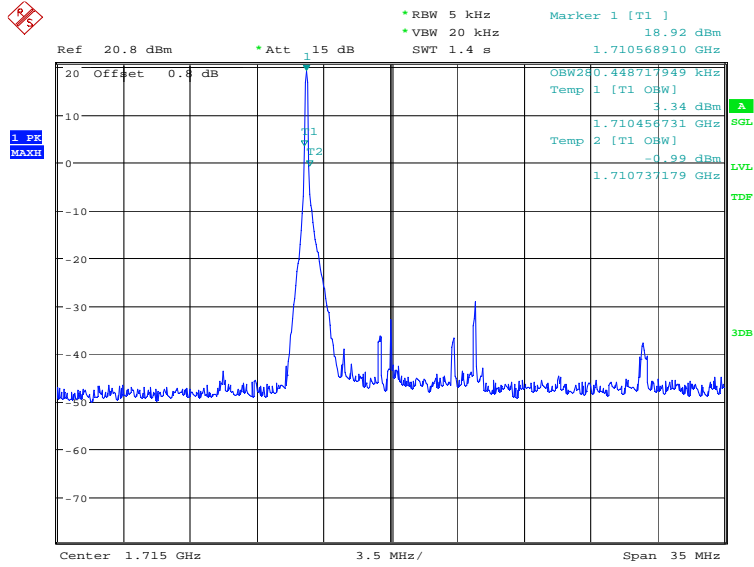
Date: 29.MAR.2021 10:53:50

HIGH BAND EDGE BLOCK-20MHz-100%RB



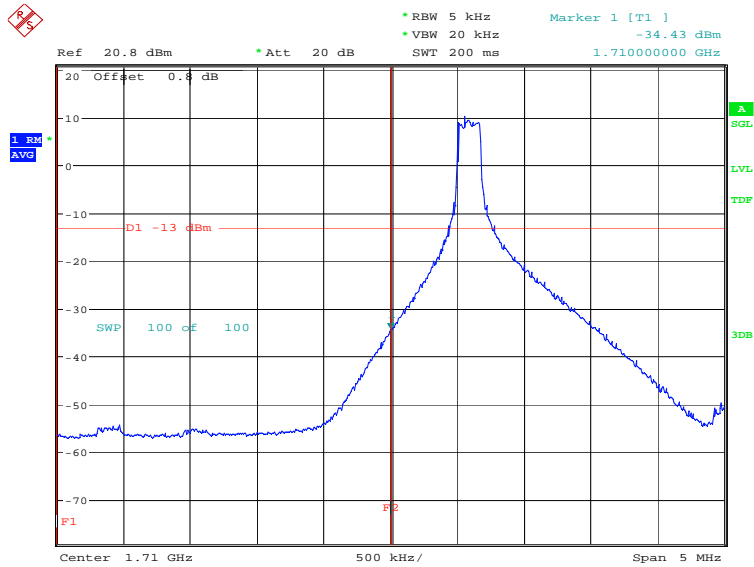
Date: 29.MAR.2021 10:55:18

LTE band 4
OBW: 1RB-low_offset



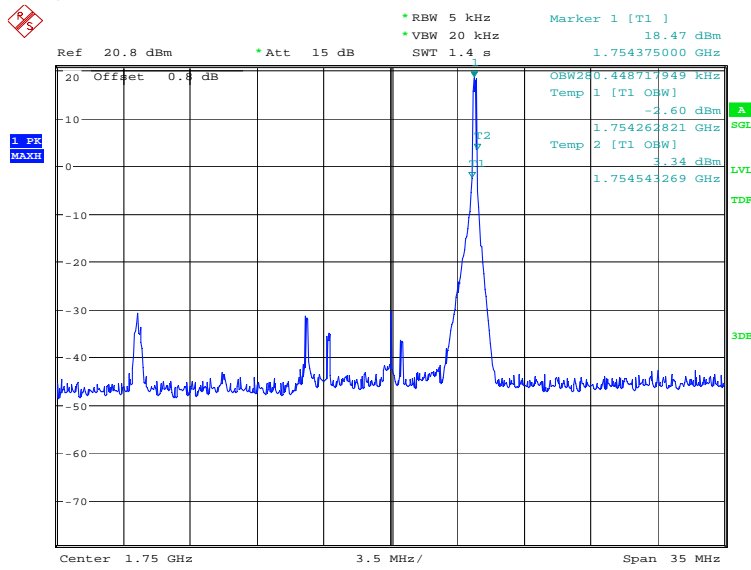
Date: 27.APR.2021 09:13:03

LOW BAND EDGE BLOCK-1RB-low_offset



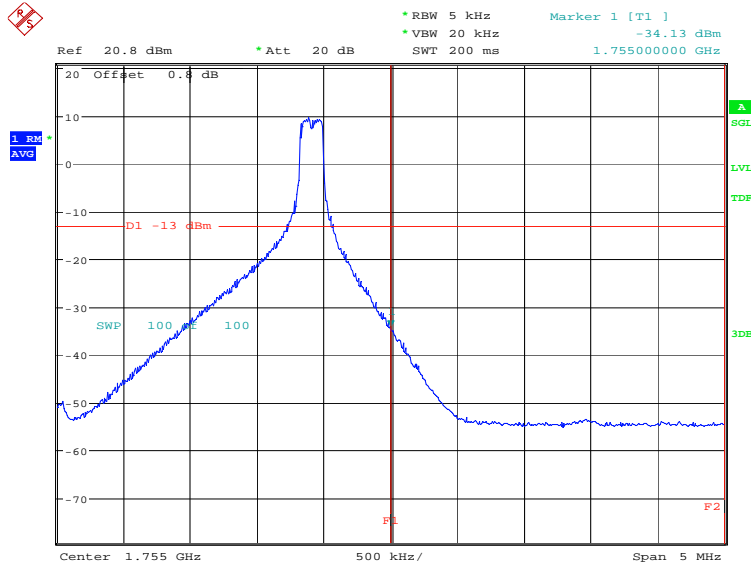
Date: 27.APR.2021 09:14:16

OBW: 1RB-high_offset



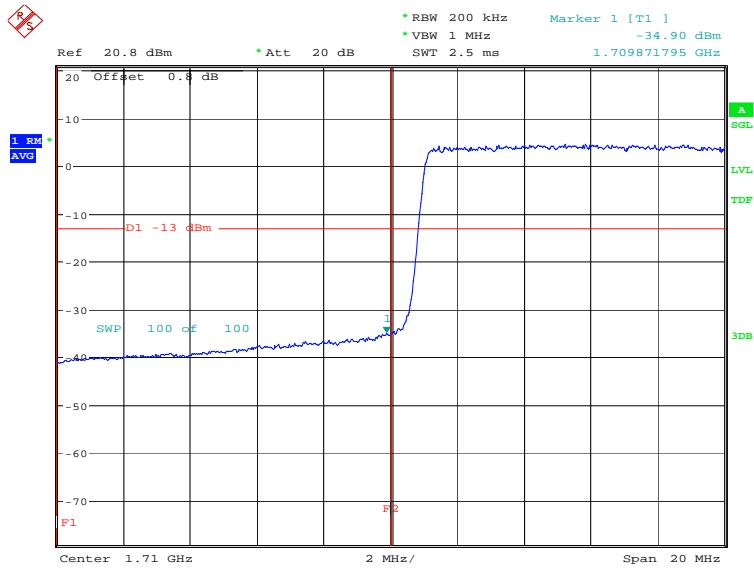
Date: 27.APR.2021 09:14:51

HIGH BAND EDGE BLOCK-1RB-high_offset



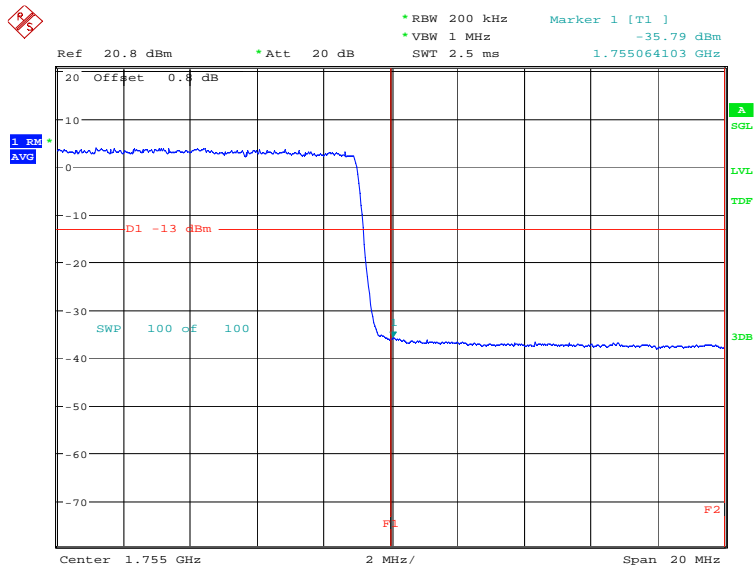
Date: 27.APR.2021 09:16:05

LOW BAND EDGE BLOCK-20MHz-100%RB



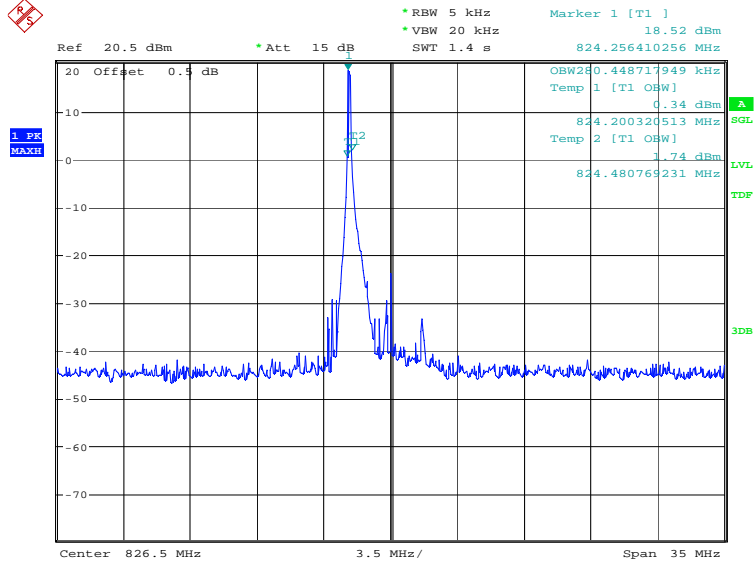
Date: 29.MAR.2021 10:56:49

HIGH BAND EDGE BLOCK-20MHz-100%RB



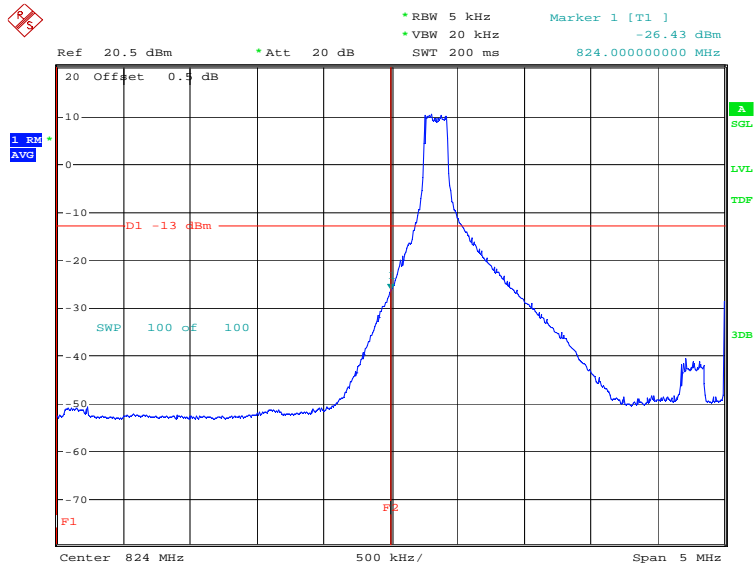
Date: 29.MAR.2021 10:58:18

LTE band 5
OBW: 1RB-low_offset



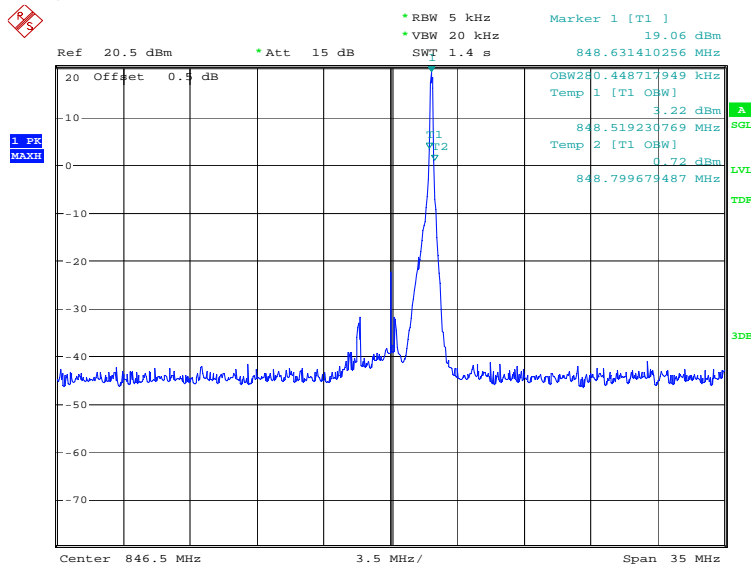
Date: 27.APR.2021 09:51:08

LOW BAND EDGE BLOCK-1RB-low_offset



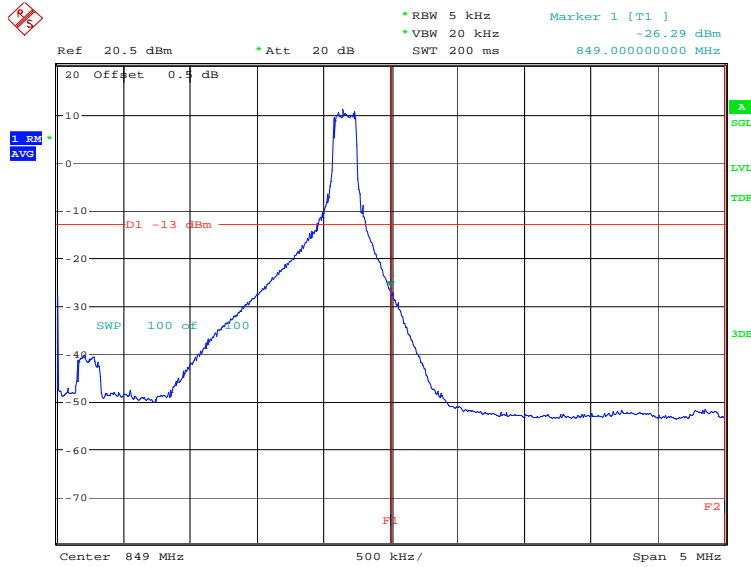
Date: 27.APR.2021 09:52:21

OBW: 1RB-high_offset



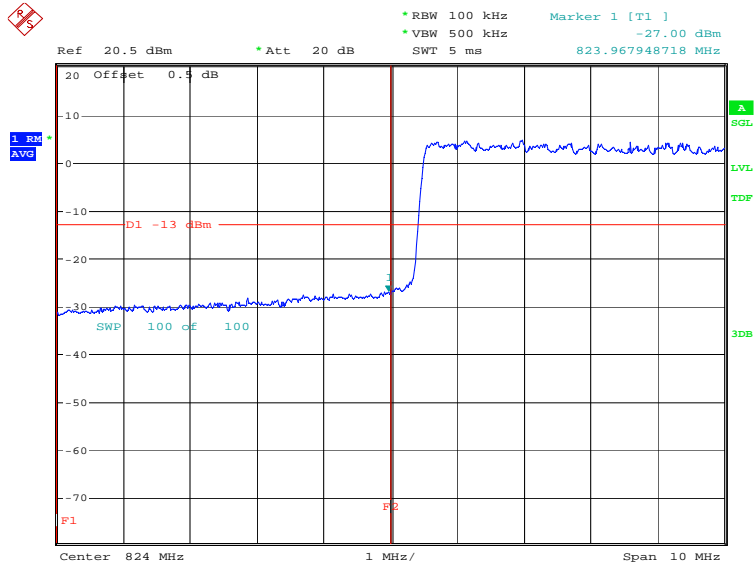
Date: 27.APR.2021 09:52:56

HIGH BAND EDGE BLOCK-1RB-high_offset



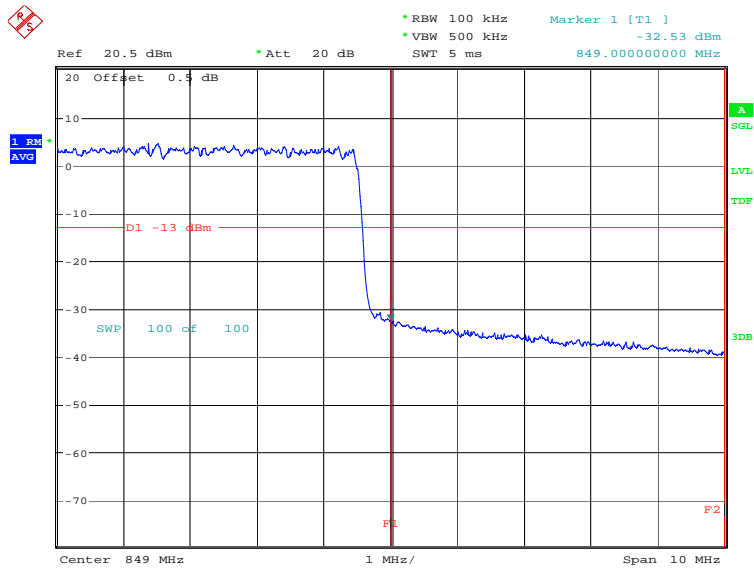
Date: 27.APR.2021 09:54:10

LOW BAND EDGE BLOCK-10MHz-100%RB



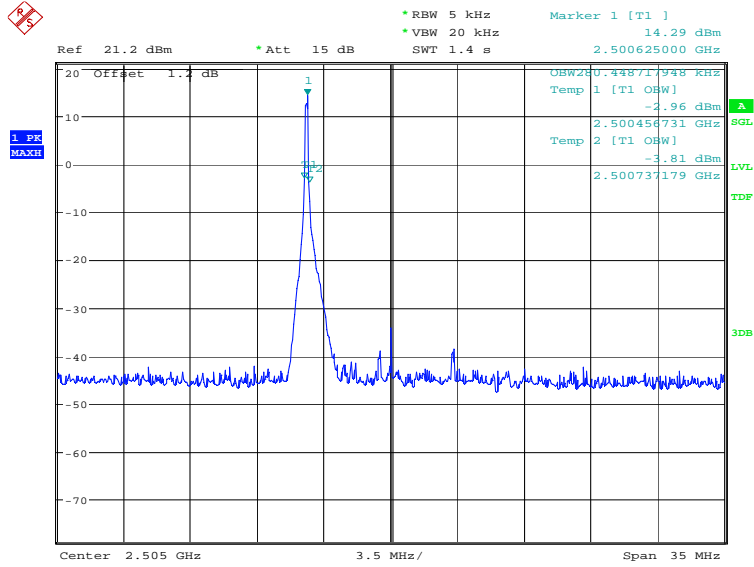
Date: 29.MAR.2021 12:14:29

HIGH BAND EDGE BLOCK-10MHz-100%RB



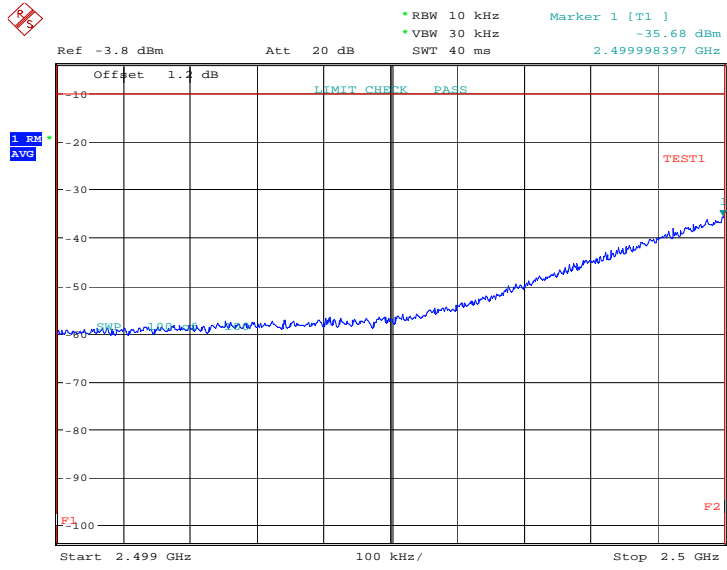
Date: 29.MAR.2021 12:15:58

LTE band 7
OBW: 1RB-low_offset

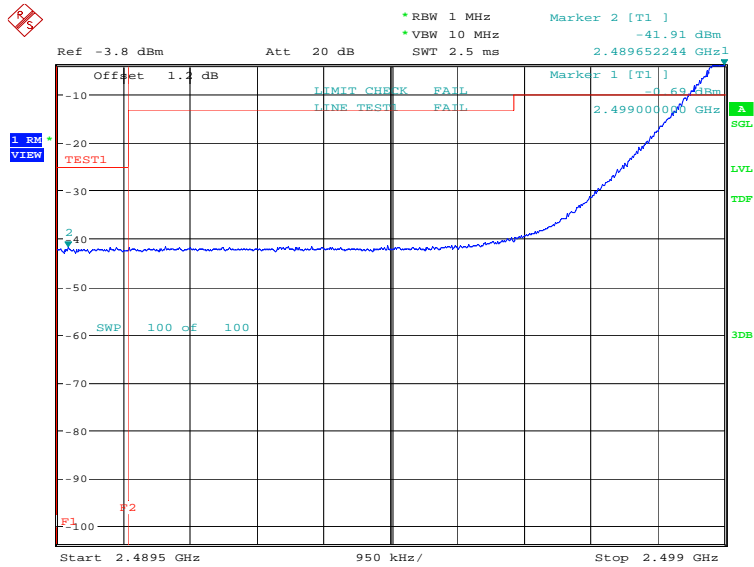


Date: 27.APR.2021 09:54:58

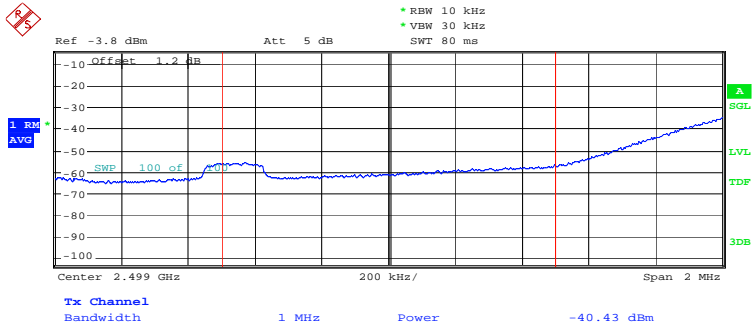
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 27.APR.2021 09:56:19



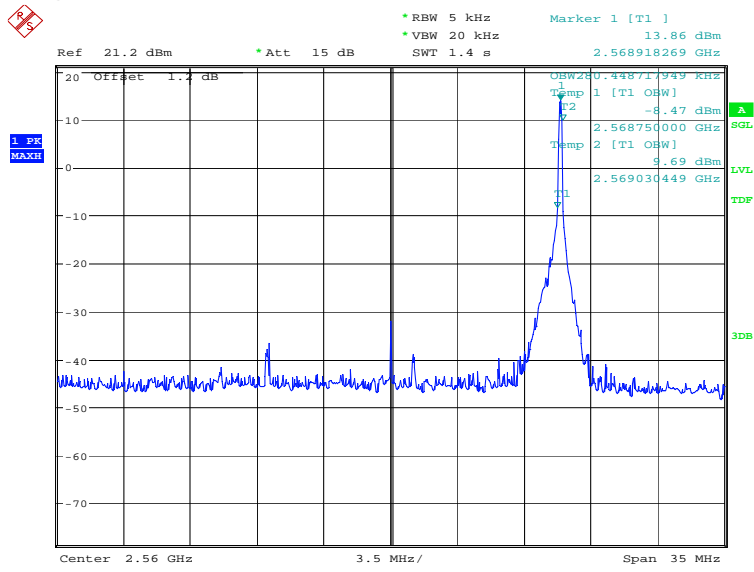
Date: 27.APR.2021 09:58:07



Date: 27.APR.2021 09:58:34

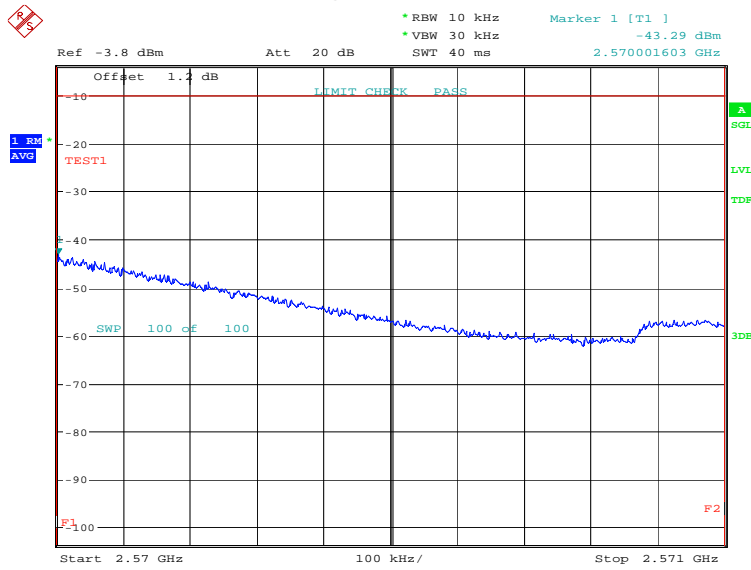


OBW: 1RB-high_offset

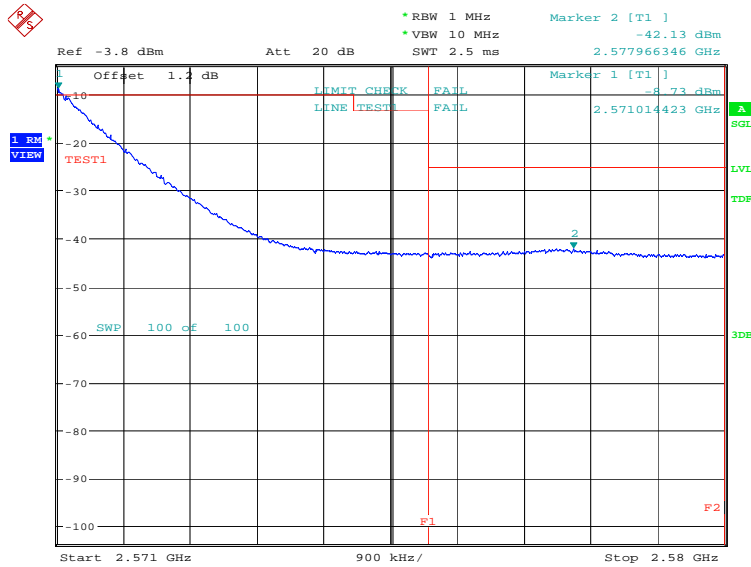


Date: 27.APR.2021 09:59:21

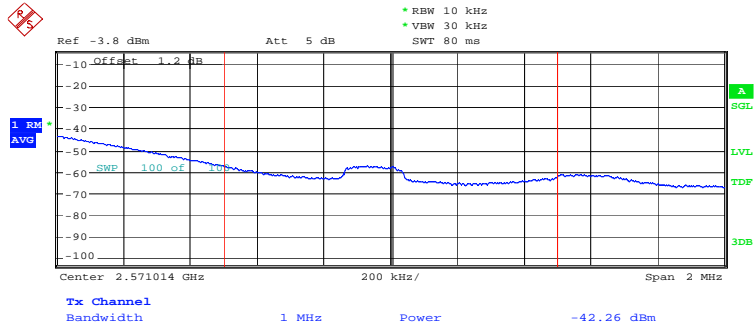
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 27.APR.2021 10:00:41

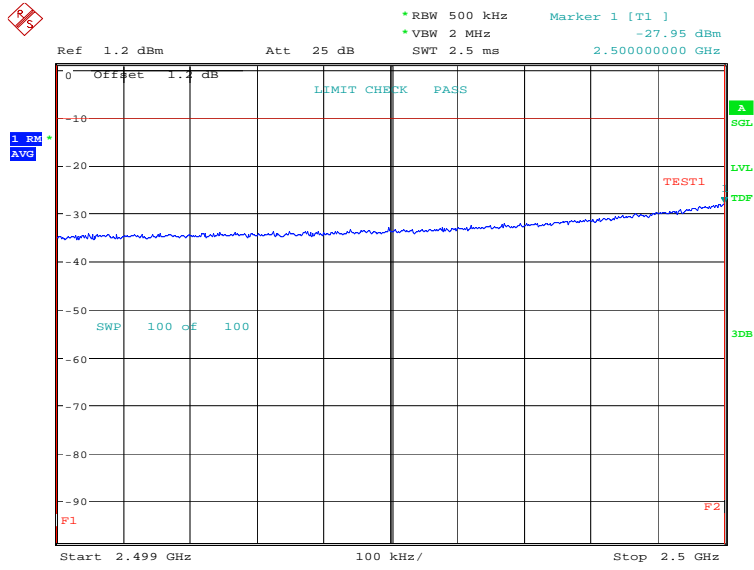


Date: 27.APR.2021 10:02:29

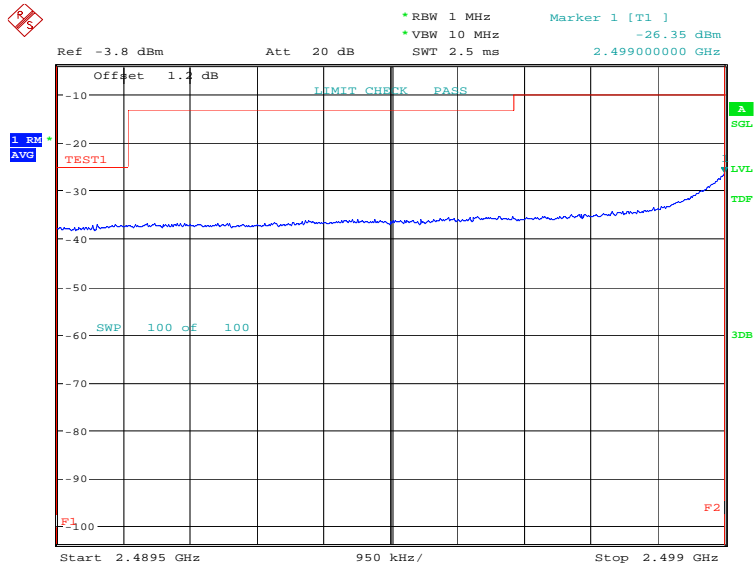


Date: 27.APR.2021 10:02:57

LOW BAND EDGE BLOCK-20MHz-100%RB

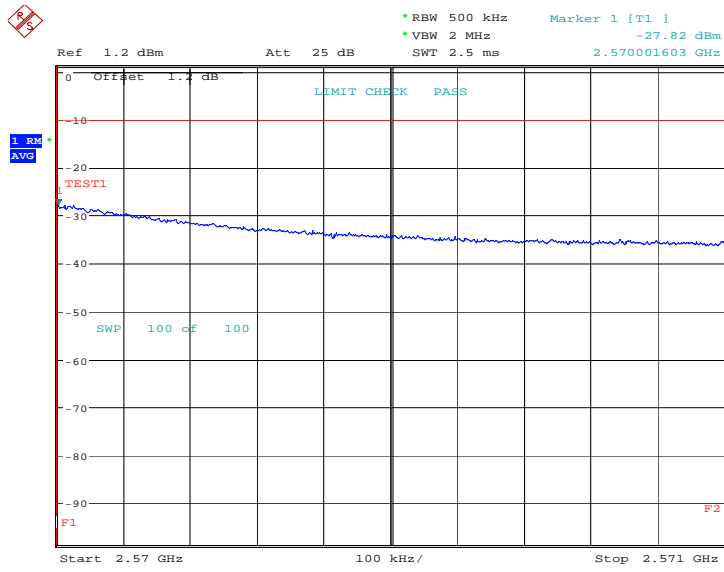


Date: 9.MAR.2021 10:08:42

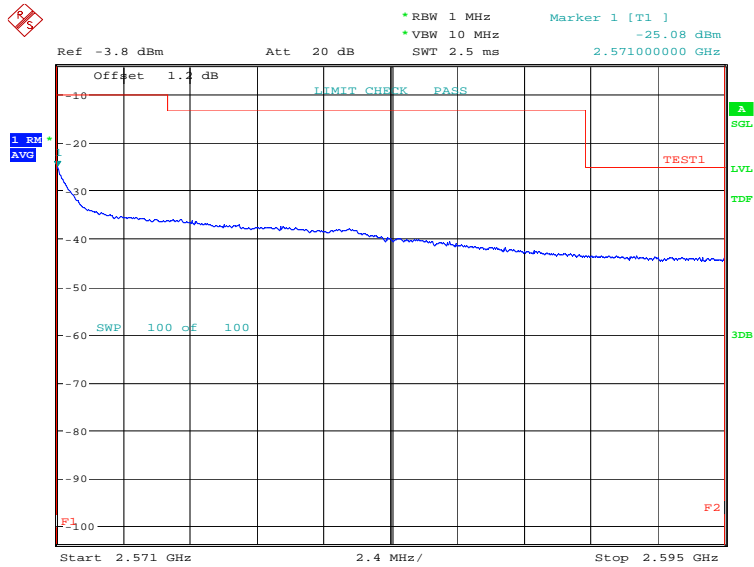


Date: 9.MAR.2021 10:09:02

HIGH BAND EDGE BLOCK-20MHz-100%RB

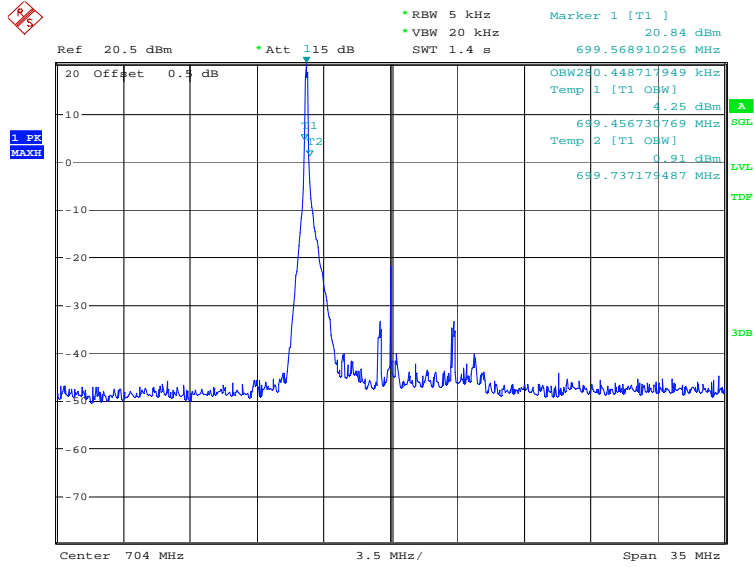


Date: 9.MAR.2021 10:17:30



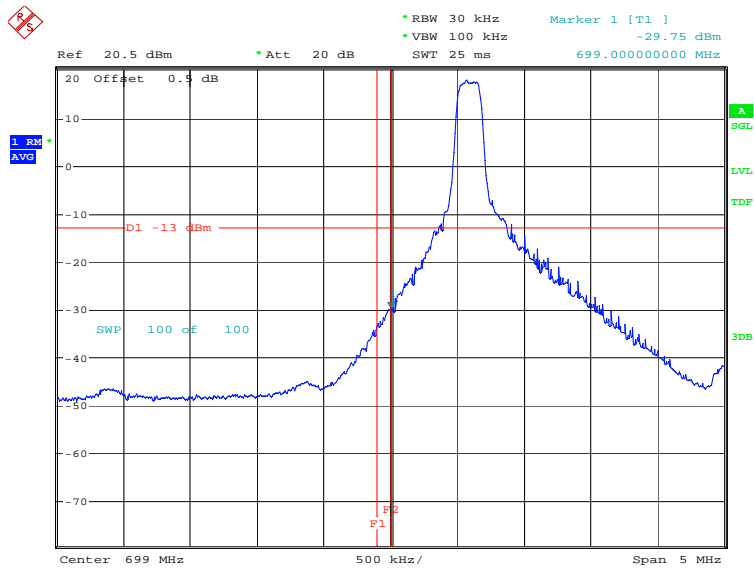
Date: 9.MAR.2021 10:17:50

LTE band 12
OBW: 1RB-low_offset



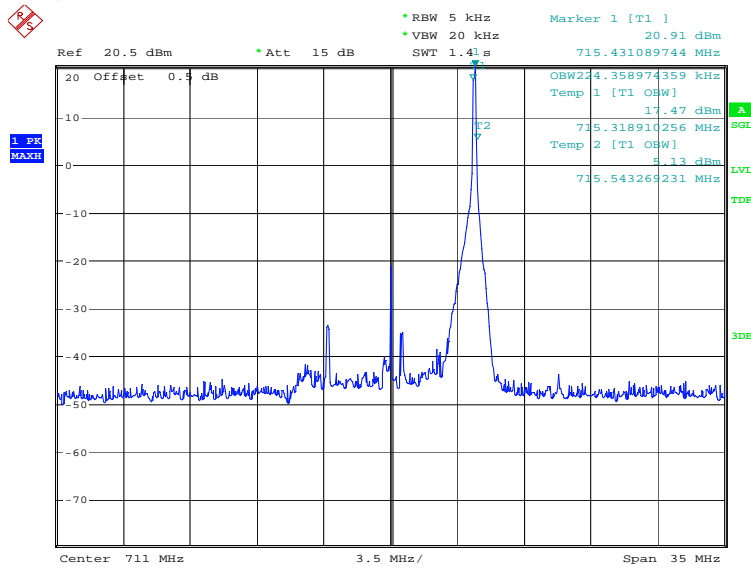
Date: 27.APR.2021 10:07:05

LOW BAND EDGE BLOCK-1RB-low_offset



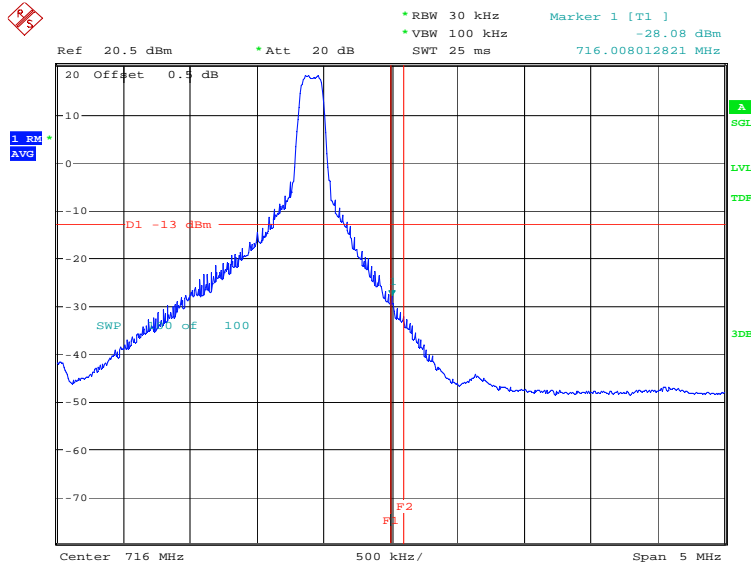
Date: 27.APR.2021 10:07:24

OBW: 1RB-high_offset



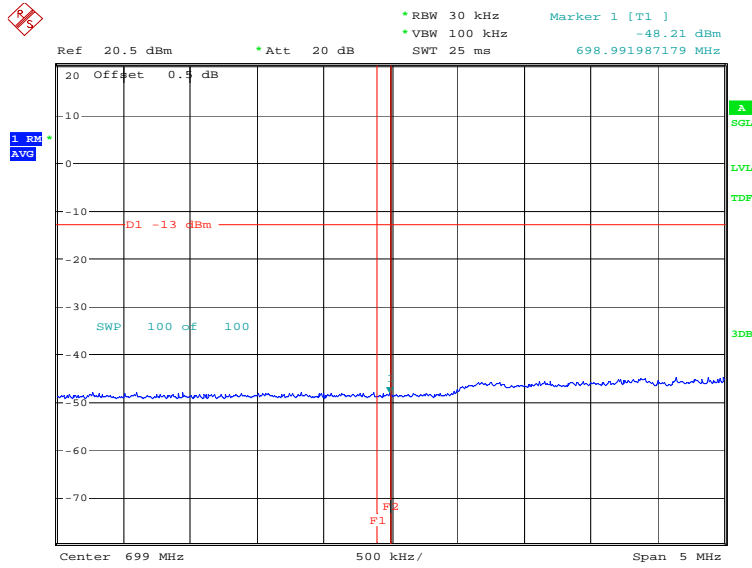
Date: 27.APR.2021 10:07:59

HIGH BAND EDGE BLOCK-1RB-high_offset



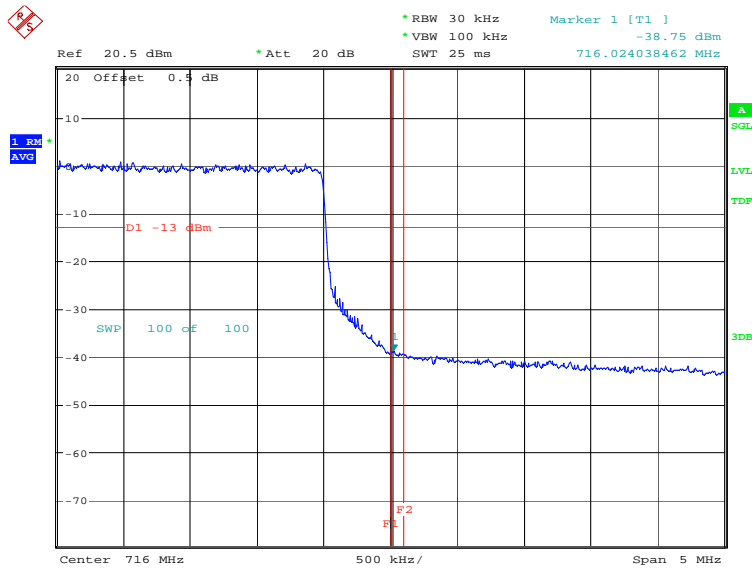
Date: 27.APR.2021 10:08:17

LOW BAND EDGE BLOCK-10MHz-100%RB



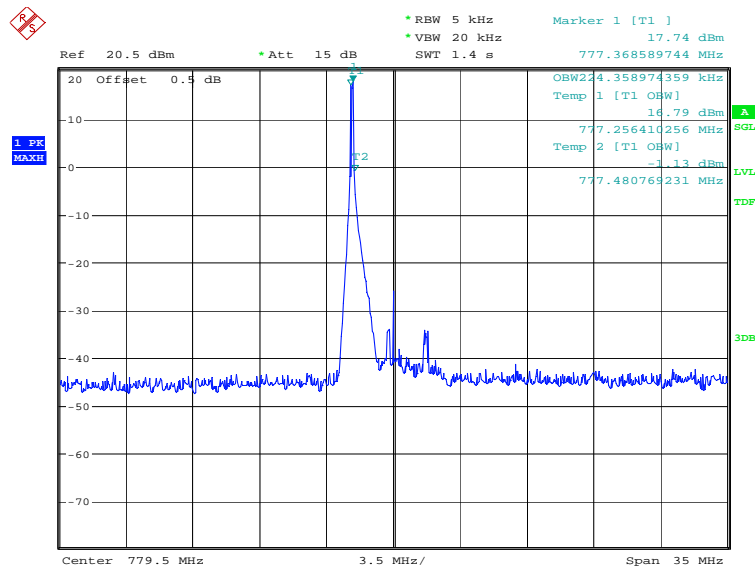
Date: 9.MAR.2021 08:12:57

HIGH BAND EDGE BLOCK-10MHz-100%RB



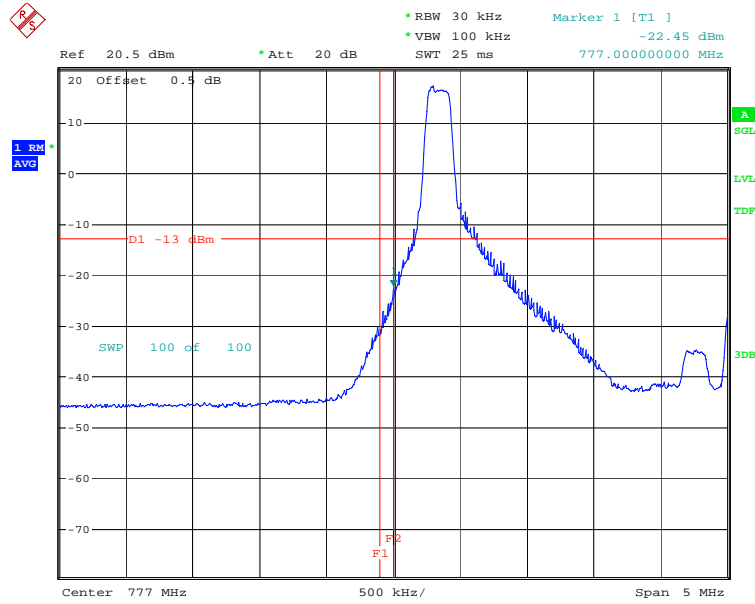
Date: 8.MAR.2021 18:46:01

LTE band 13
OBW: 1RB-low_offset

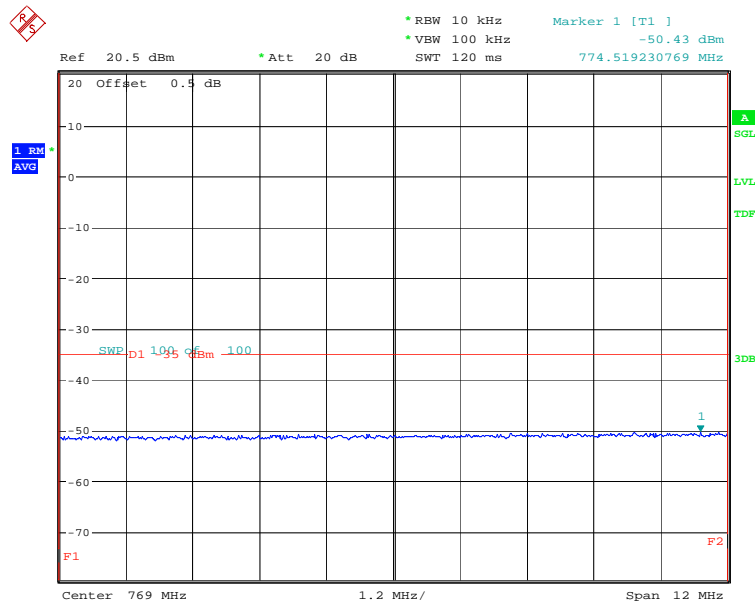


Date: 27.APR.2021 14:02:42

LOW BAND EDGE BLOCK-1RB-low_offset

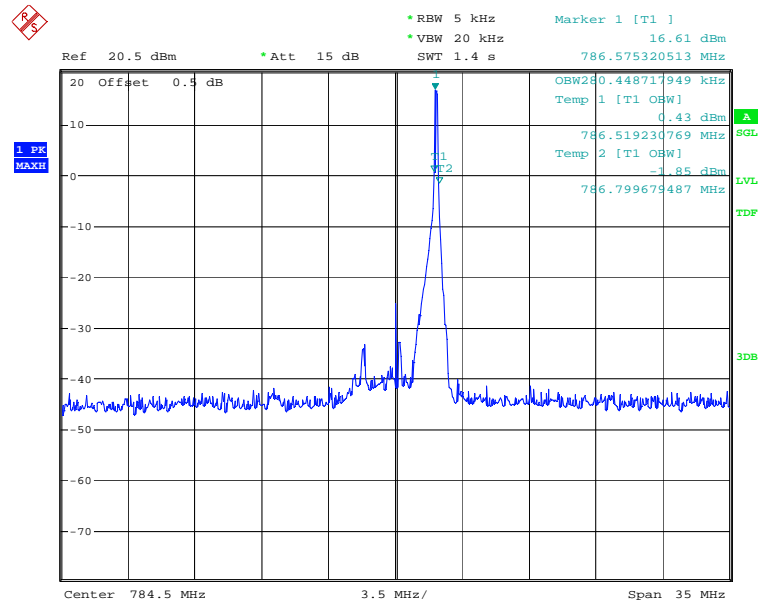


Date: 27.APR.2021 14:03:01



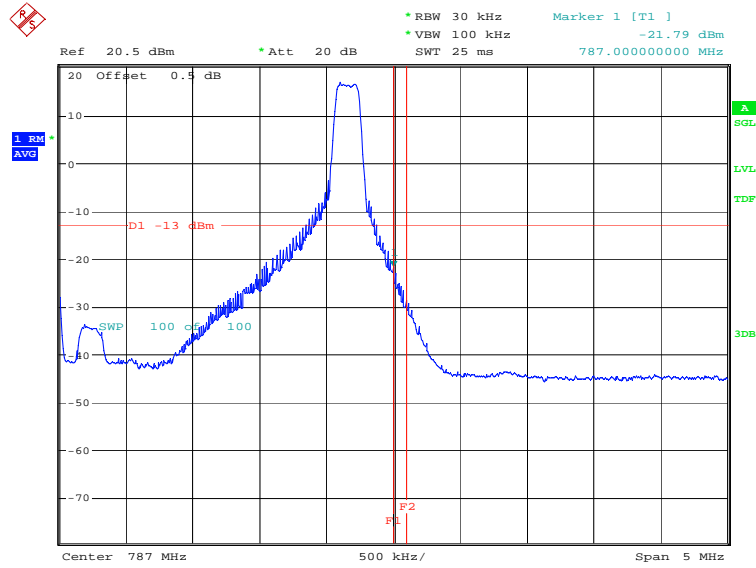
Date: 27.APR.2021 14:03:42

OBW: 1RB-high_offset

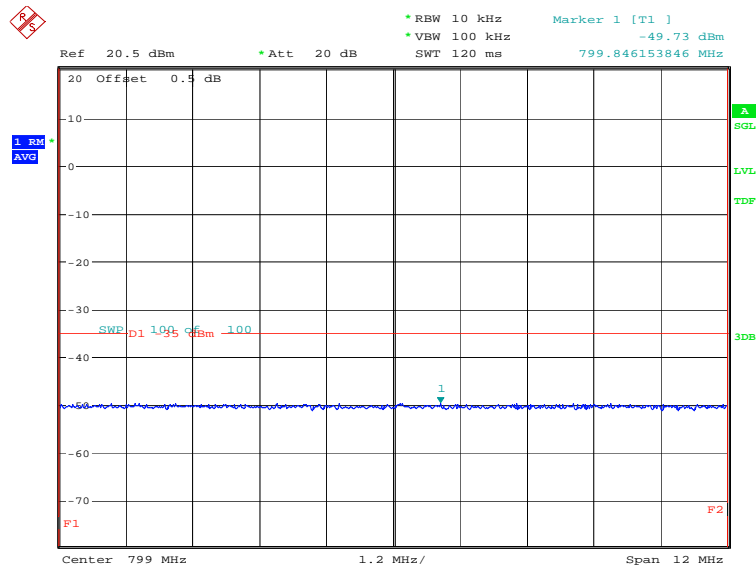


Date: 27.APR.2021 14:05:08

HIGH BAND EDGE BLOCK-1RB-high_offset

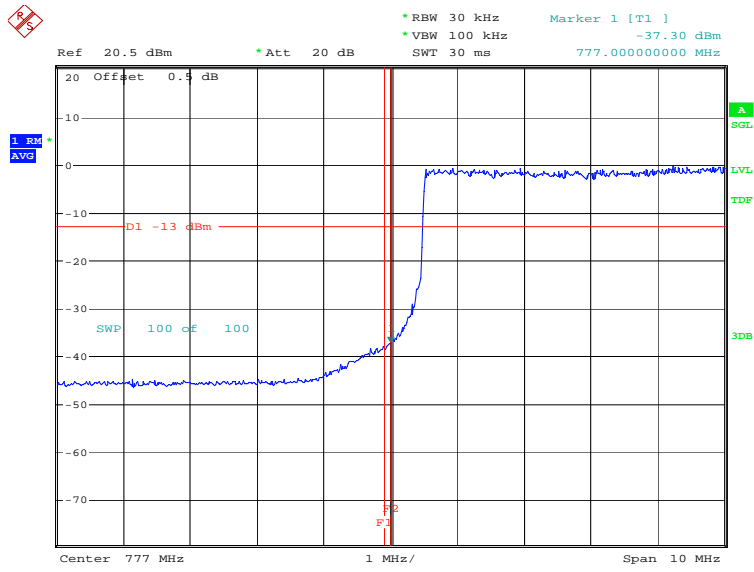


Date: 27.APR.2021 14:05:27

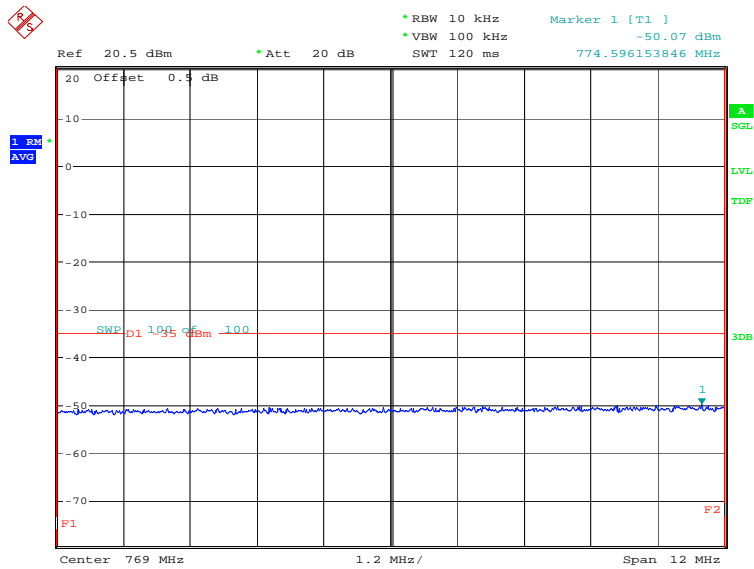


Date: 27.APR.2021 14:05:52

LOW BAND EDGE BLOCK-10MHz-100%RB

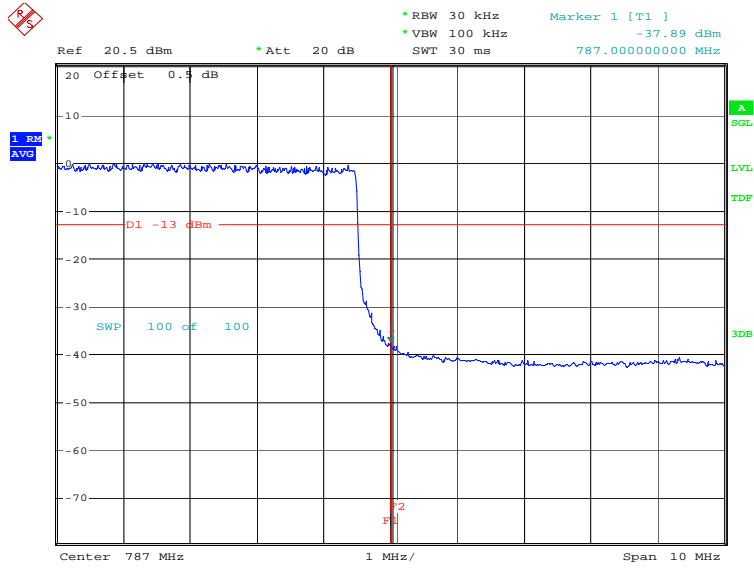


Date: 9.MAR.2021 11:02:31

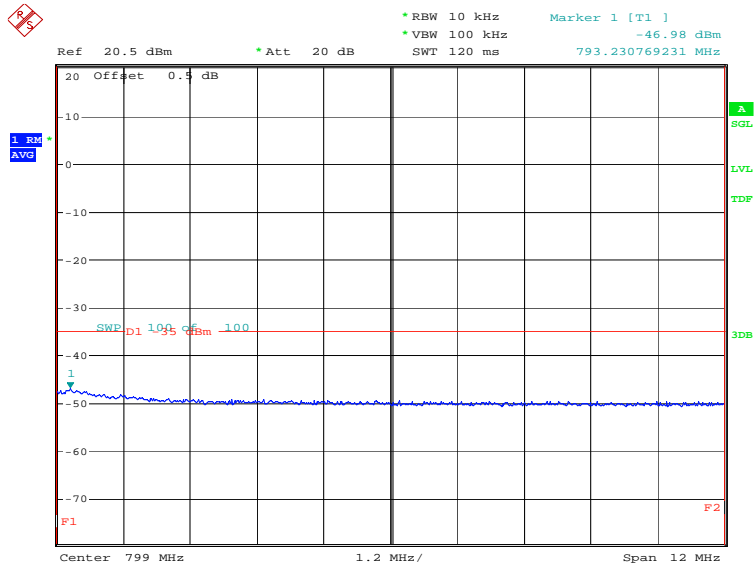


Date: 9.MAR.2021 11:02:54

HIGH BAND EDGE BLOCK-10MHz-100%RB

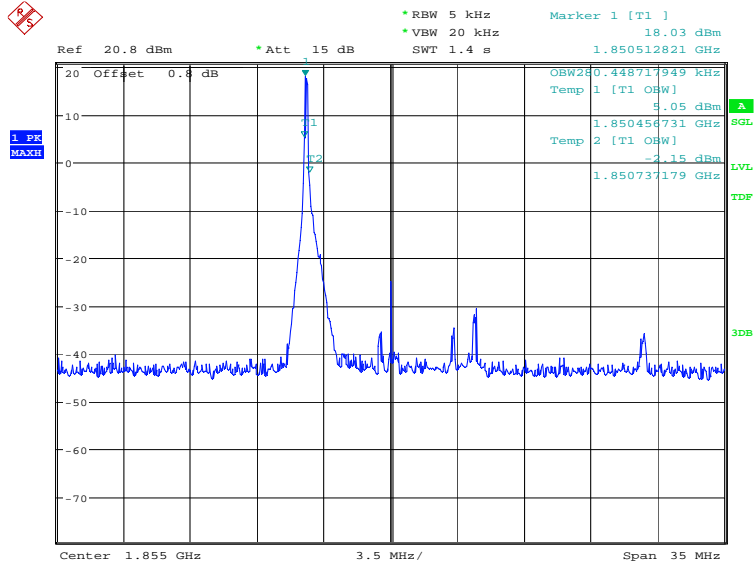


Date: 9.MAR.2021 11:04:16



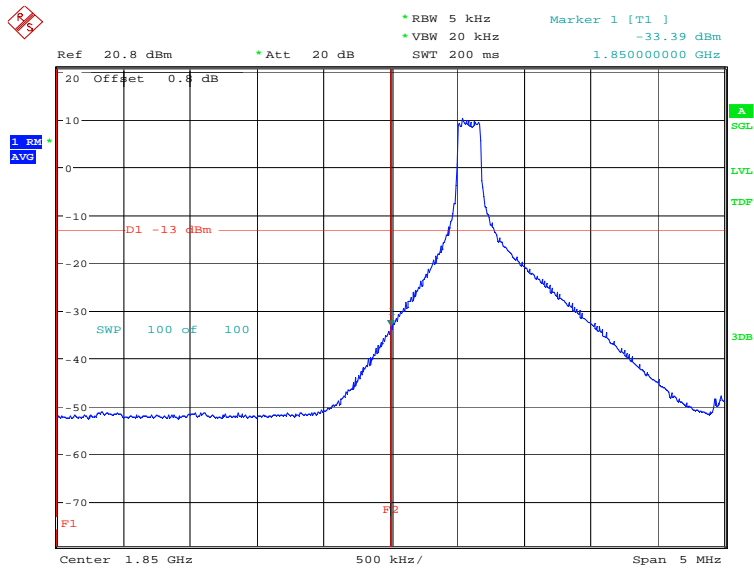
Date: 9.MAR.2021 11:04:50

LTE band 25
OBW: 1RB-low_offset



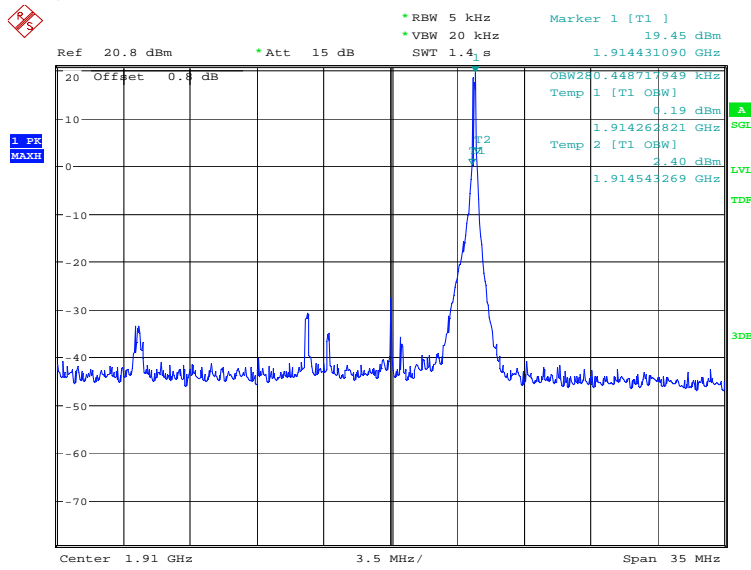
Date: 27.APR.2021 09:16:41

LOW BAND EDGE BLOCK-1RB-low_offset



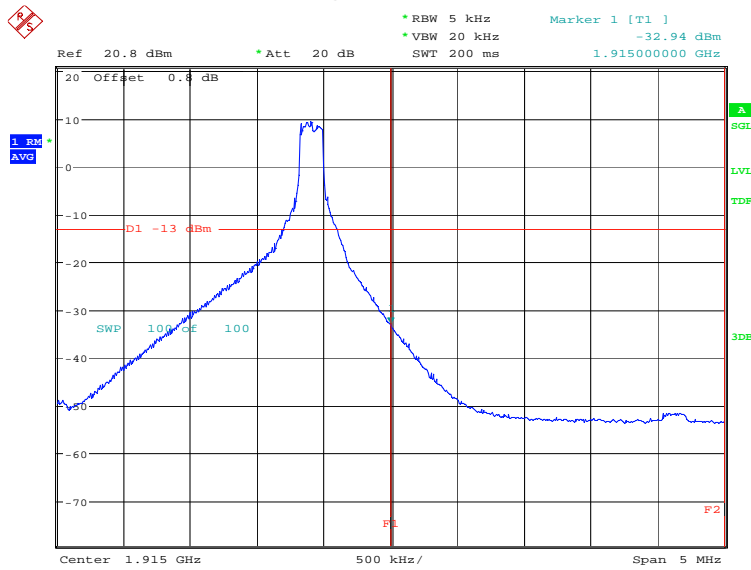
Date: 27.APR.2021 09:17:55

OBW: 1RB-high_offset



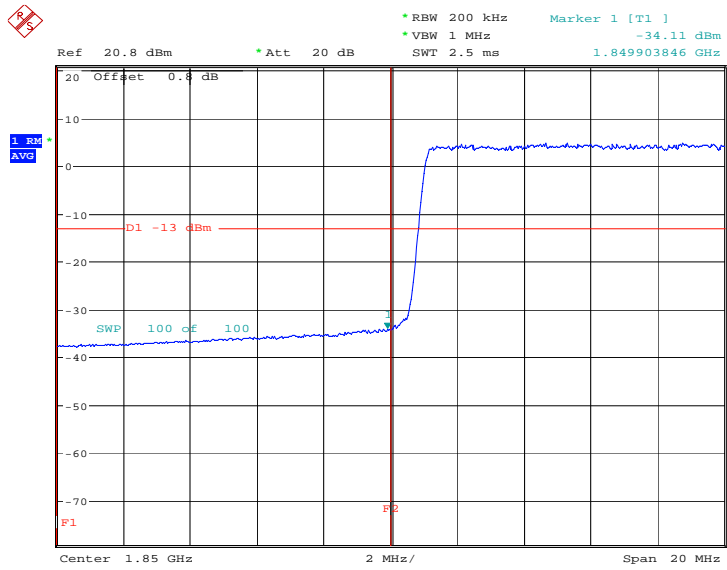
Date: 27.APR.2021 09:18:30

HIGH BAND EDGE BLOCK-1RB-high_offset



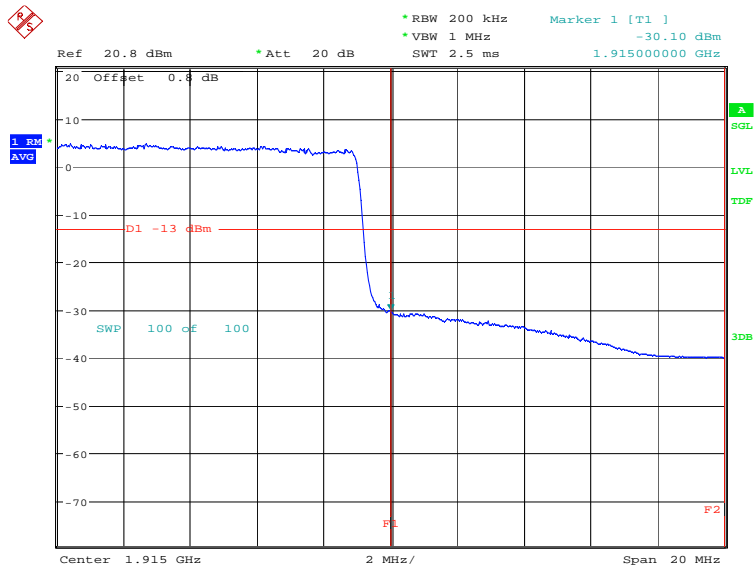
Date: 27.APR.2021 09:19:43

LOW BAND EDGE BLOCK-20MHz-100%RB



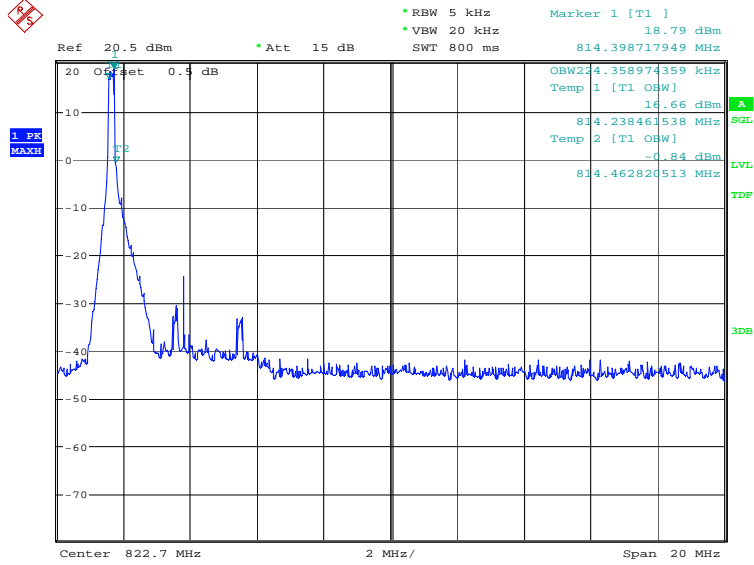
Date: 8.MAR.2021 17:15:32

HIGH BAND EDGE BLOCK-20MHz-100%RB



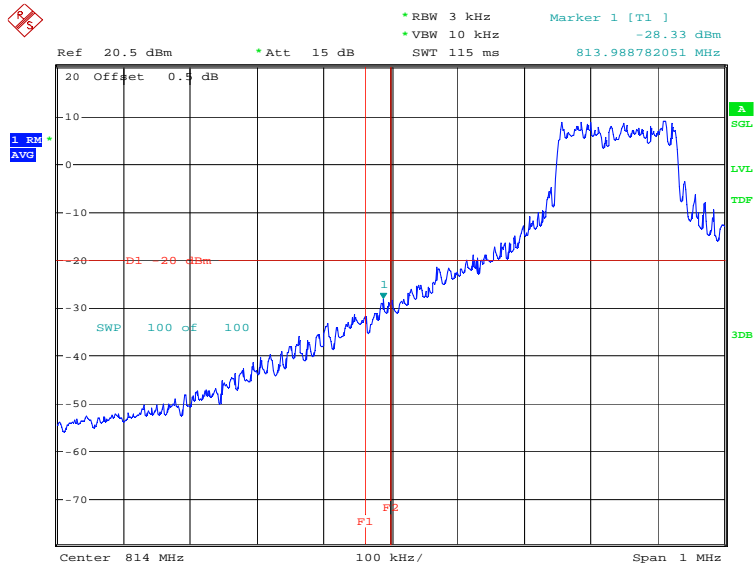
Date: 8.MAR.2021 17:17:30

LTE band 26(814MHz~824MHz)
OBW: 1RB-low_offset



Date: 27.APR.2021 10:36:12

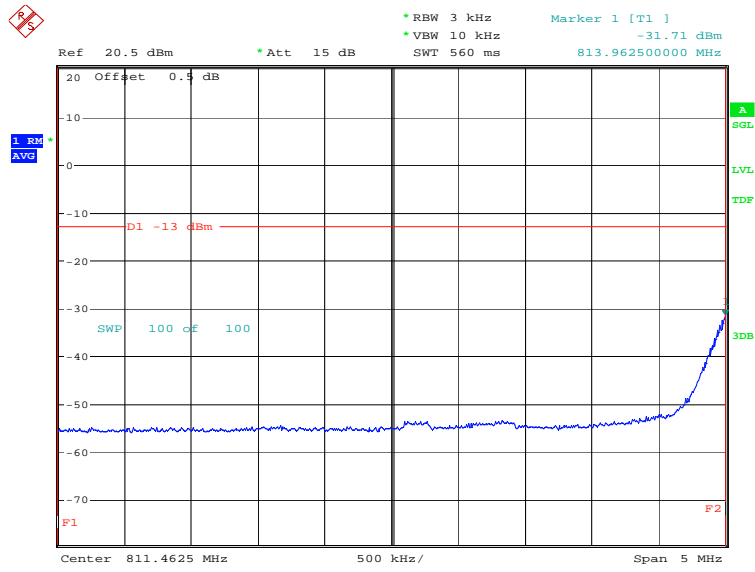
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 27.APR.2021 10:37:43

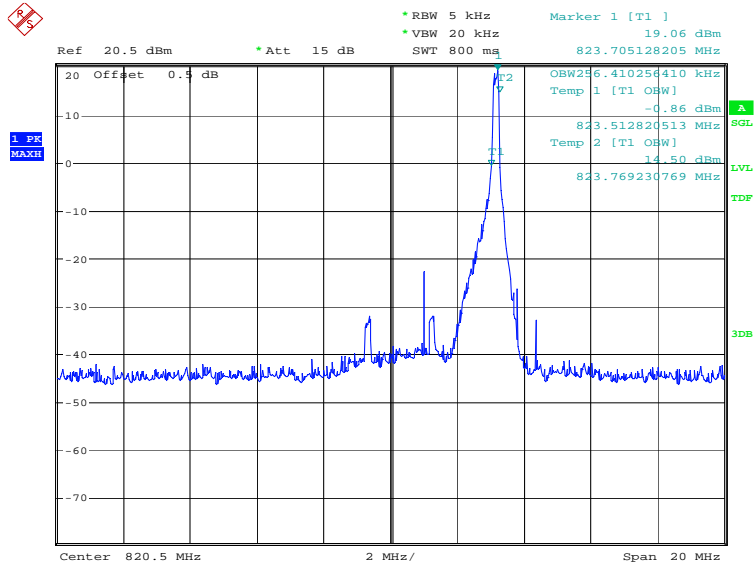


LOW Emission Mask -1RB-low_offset



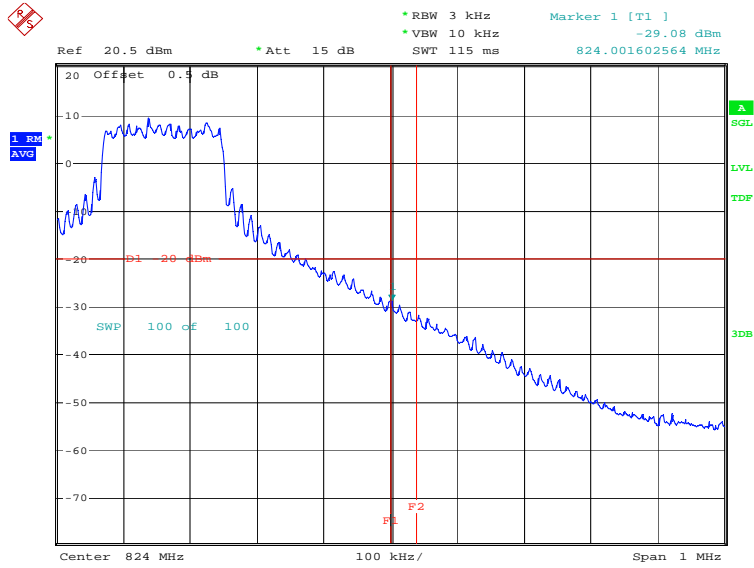
Date: 27.APR.2021 10:40:01

OBW: 1RB-high_offset



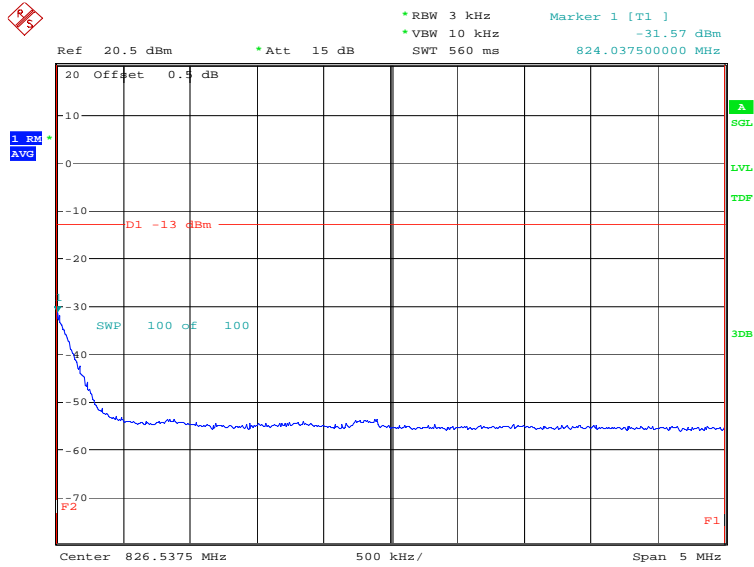
Date: 27.APR.2021 10:40:37

HIGH BAND EDGE BLOCK-1RB-high_offset



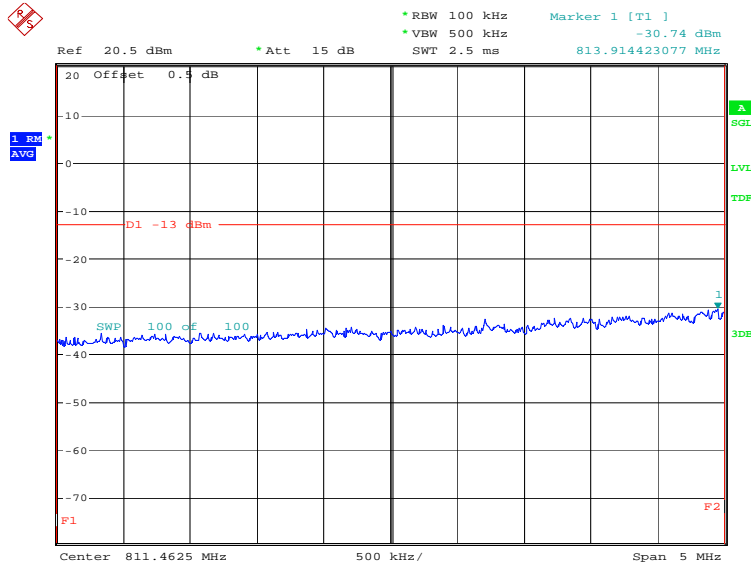
Date: 27.APR.2021 10:42:08

HIGH Emission Mask -1RB-high_offset



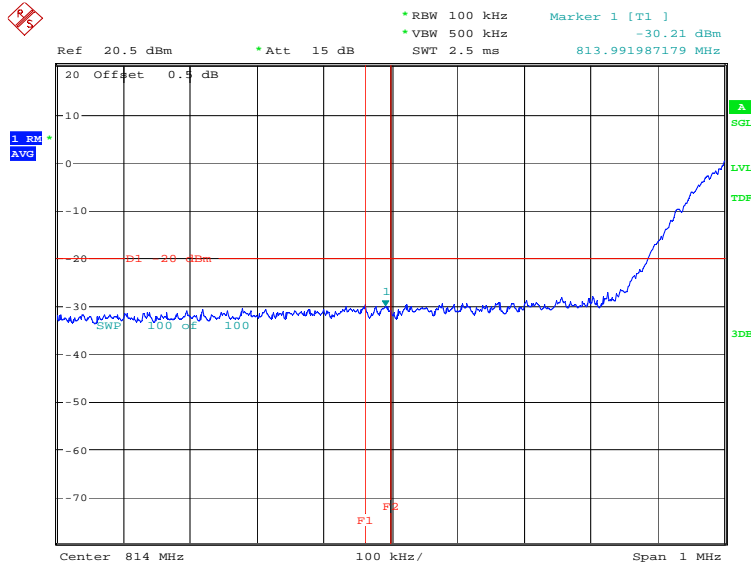
Date: 27.APR.2021 10:44:24

LOW Emission Mask -10MHz-100%RB



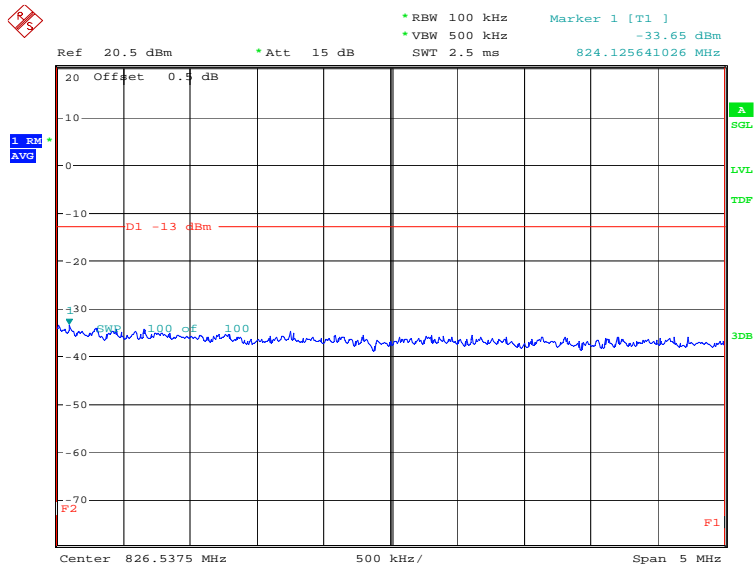
Date: 8.MAR.2021 18:59:55

LOW BAND EDGE BLOCK-10MHz-100%RB



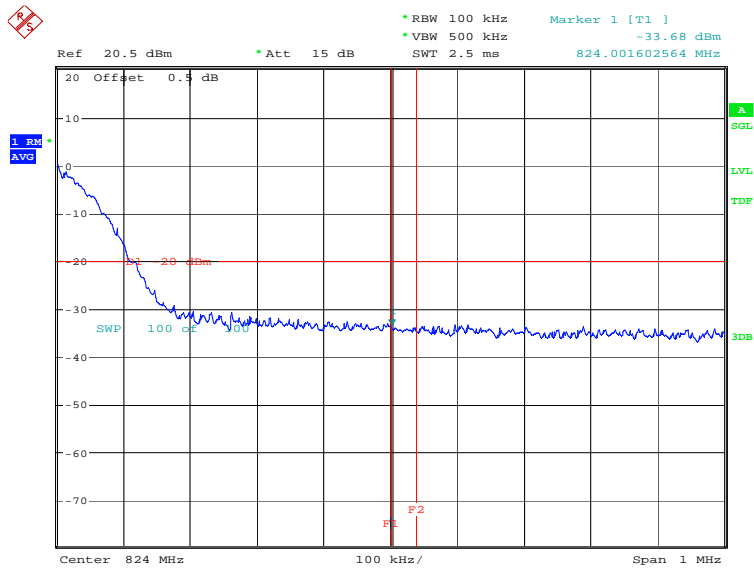
Date: 8.MAR.2021 18:59:33

HIGH Emission Mask -10MHz-100%RB



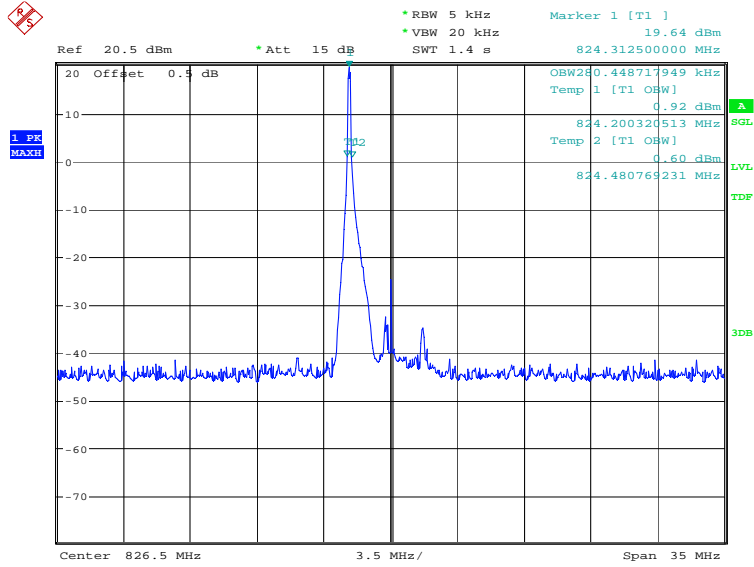
Date: 8.MAR.2021 19:01:44

HIGH BAND EDGE BLOCK-10MHz-100%RB



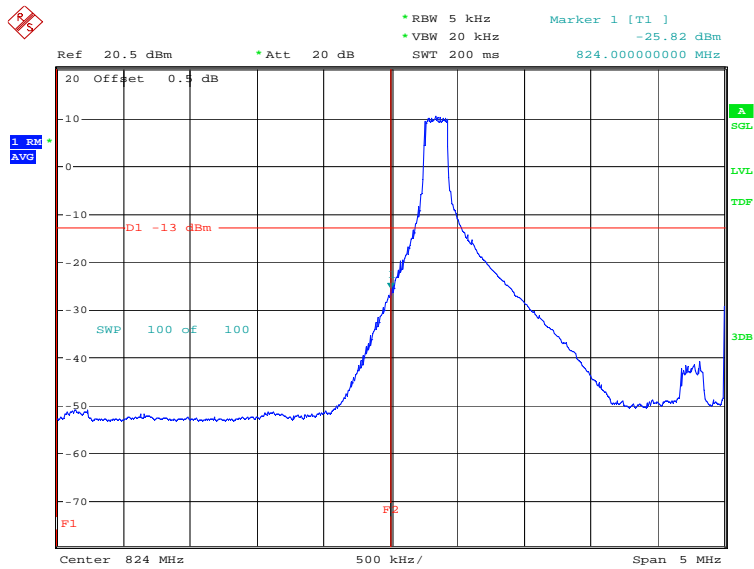
Date: 8.MAR.2021 19:01:23

LTE band 26(824MHz~849MHz)
OBW: 1RB-low_offset



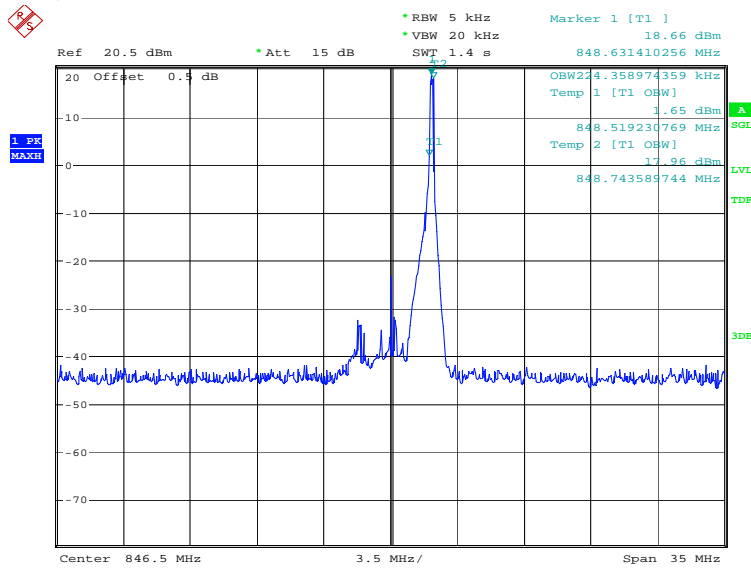
Date: 27.APR.2021 10:11:59

LOW BAND EDGE BLOCK-1RB-low_offset



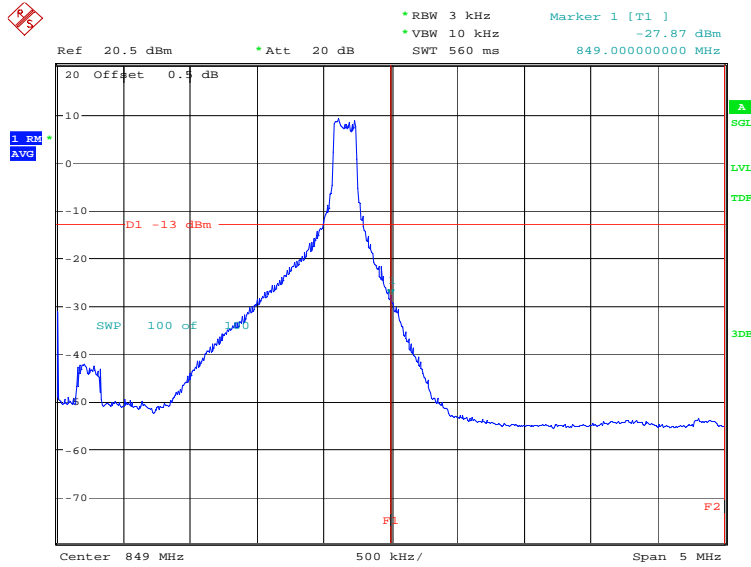
Date: 27.APR.2021 10:13:13

OBW: 1RB-high_offset



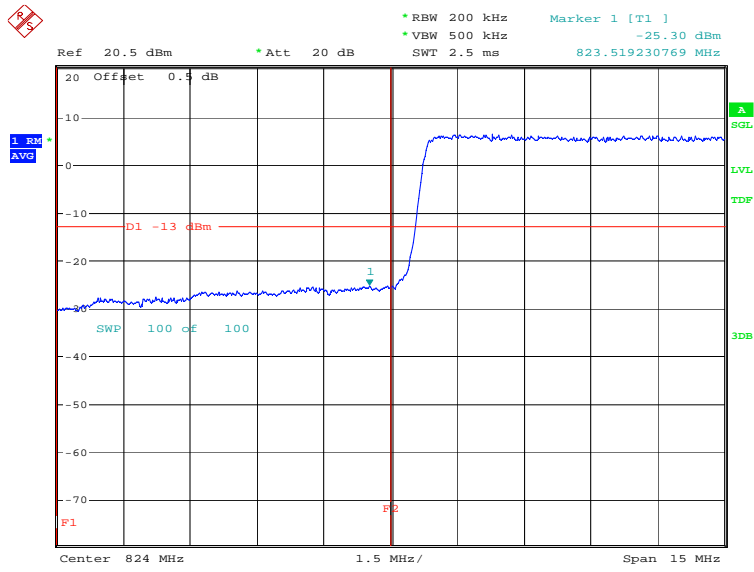
Date: 27.APR.2021 10:13:48

HIGH BAND EDGE BLOCK-1RB-high_offset



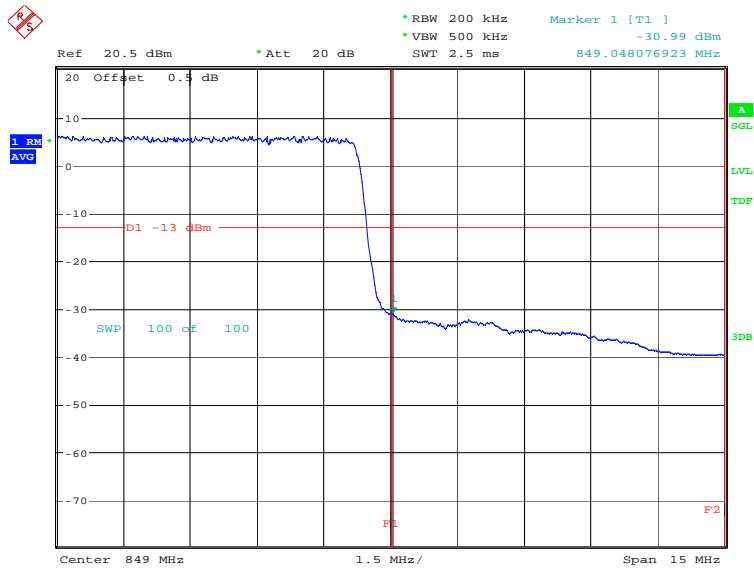
Date: 27.APR.2021 10:15:02

LOW BAND EDGE BLOCK-15MHz-100%RB



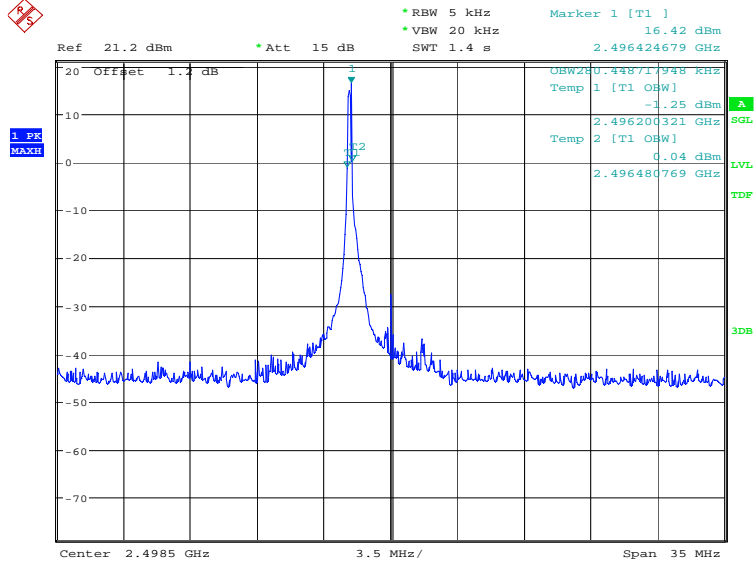
Date: 8.MAR.2021 18:51:23

HIGH BAND EDGE BLOCK-15MHz-100%RB



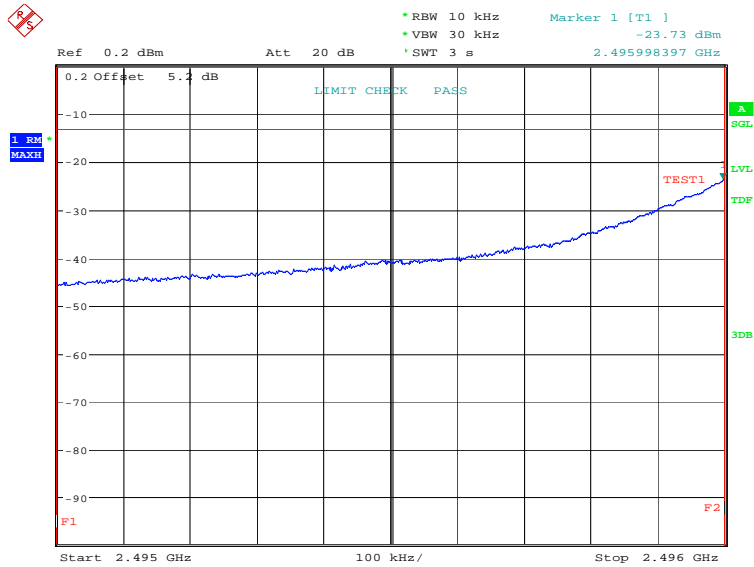
Date: 8.MAR.2021 18:52:44

LTE band 41
OBW: 1RB-low_offset

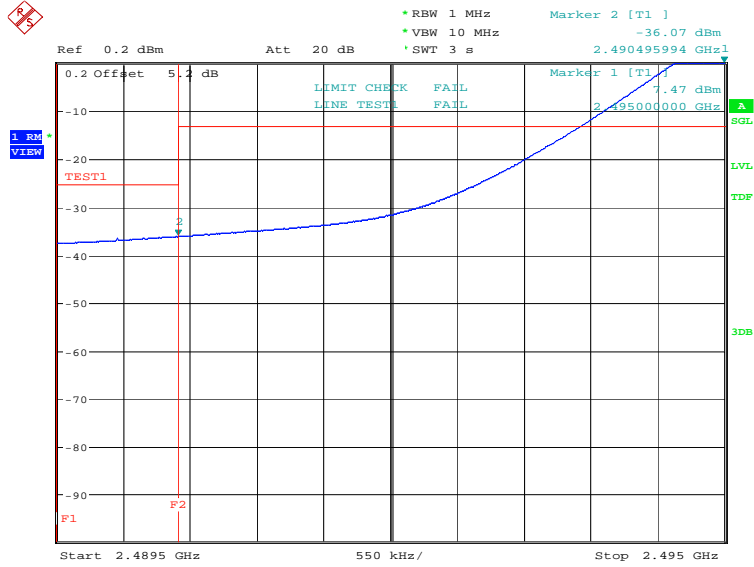


Date: 27.APR.2021 10:16:17

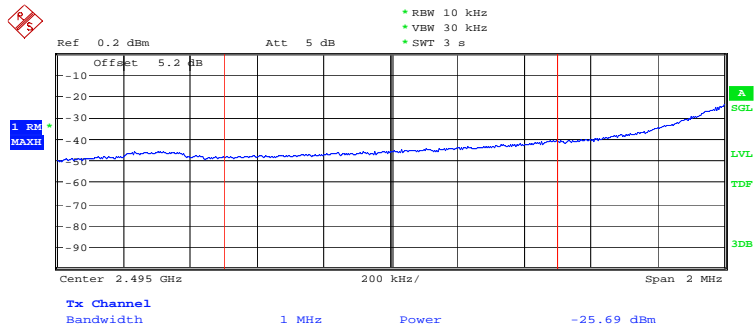
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 27.APR.2021 10:16:58

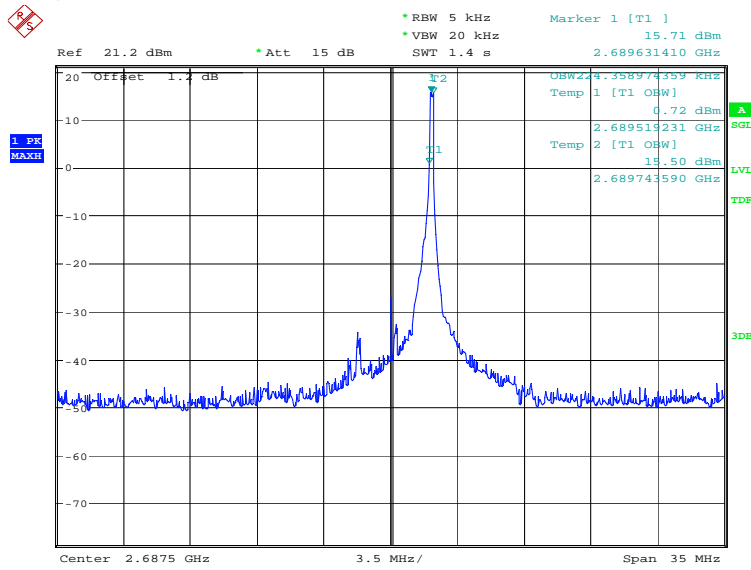


Date: 27.APR.2021 10:17:41



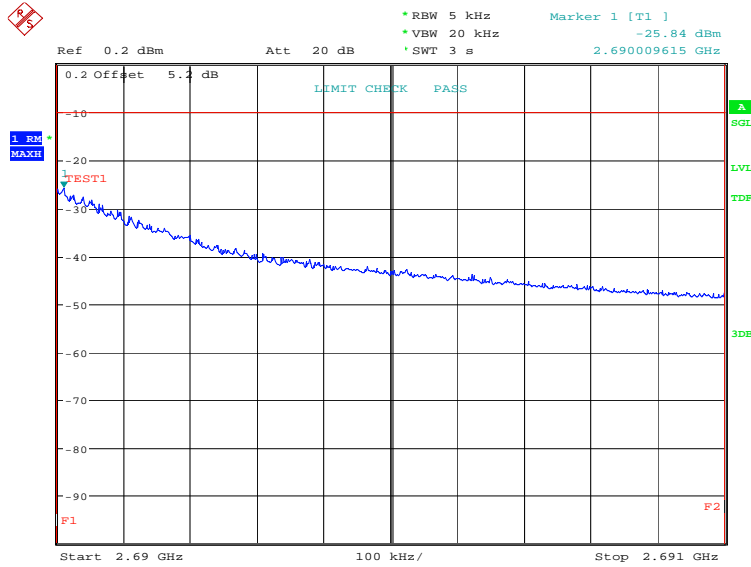
Date: 27.APR.2021 10:17:59

OBW: 1RB-high_offset

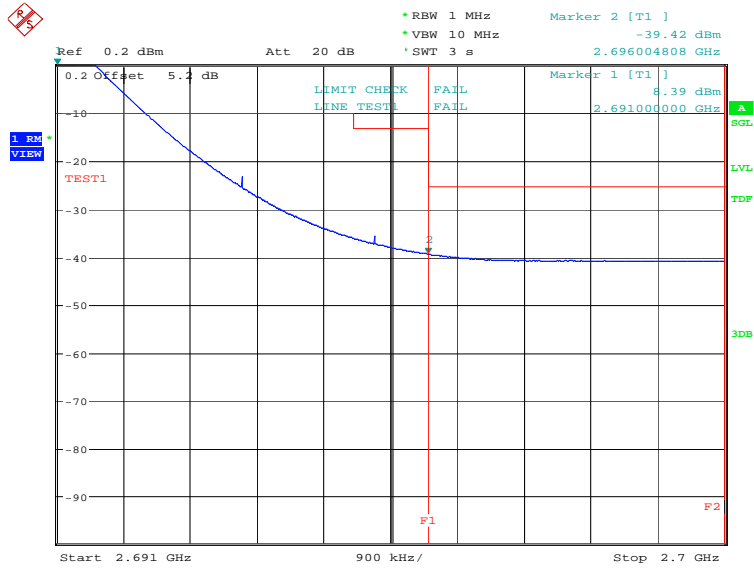


Date: 27.APR.2021 10:21:58

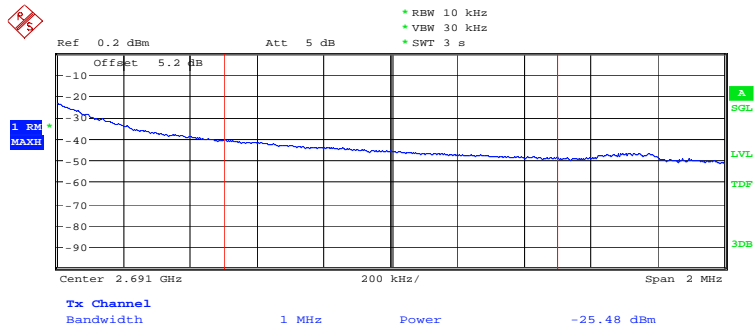
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 27.APR.2021 10:22:38

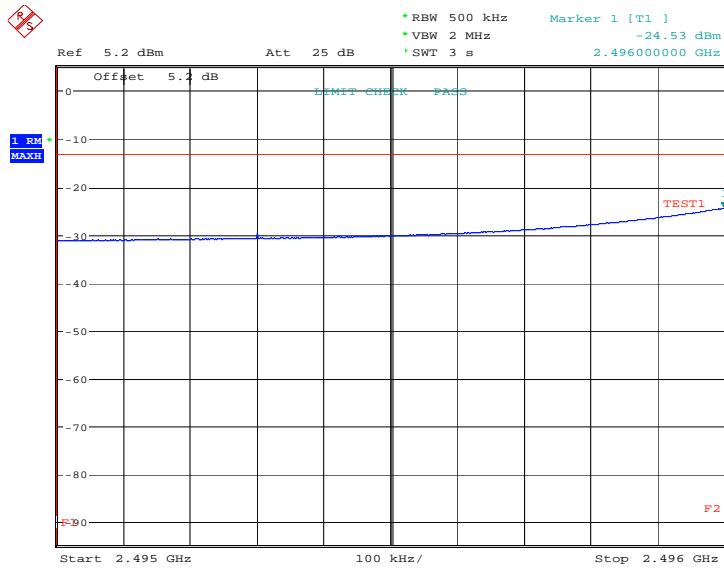


Date: 27.APR.2021 10:23:24

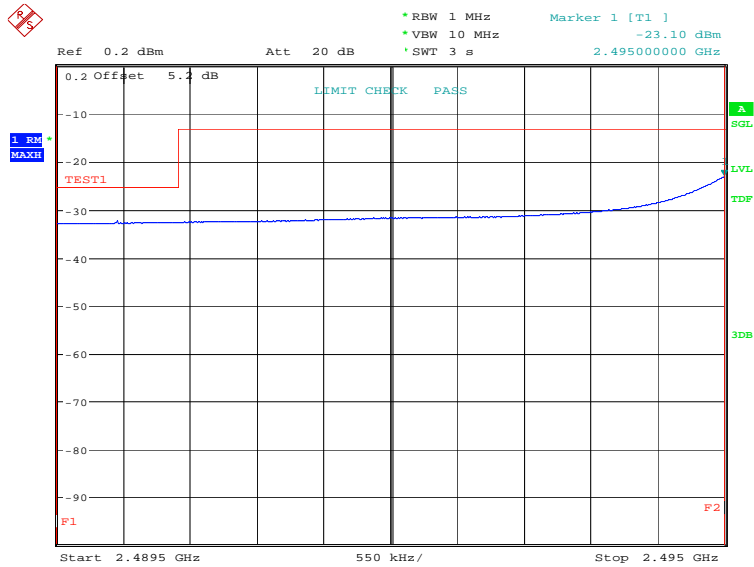


Date: 27.APR.2021 10:23:42

LOW BAND EDGE BLOCK-20MHz-100%RB

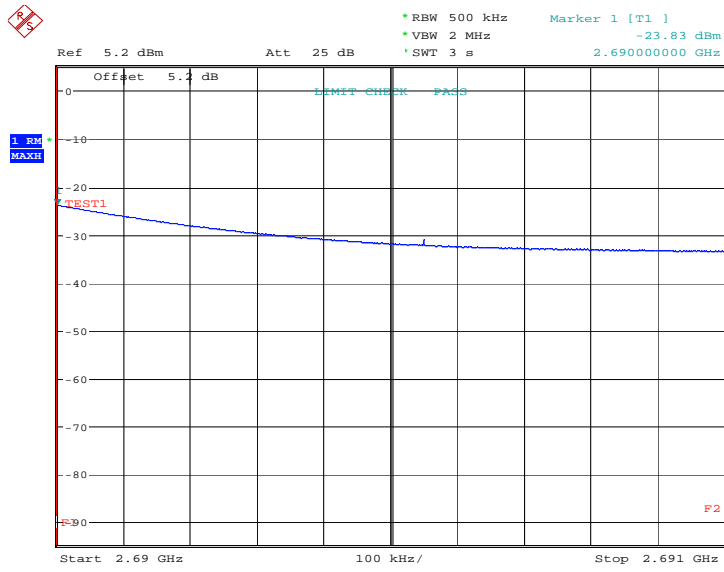


Date: 27.APR.2021 10:19:06

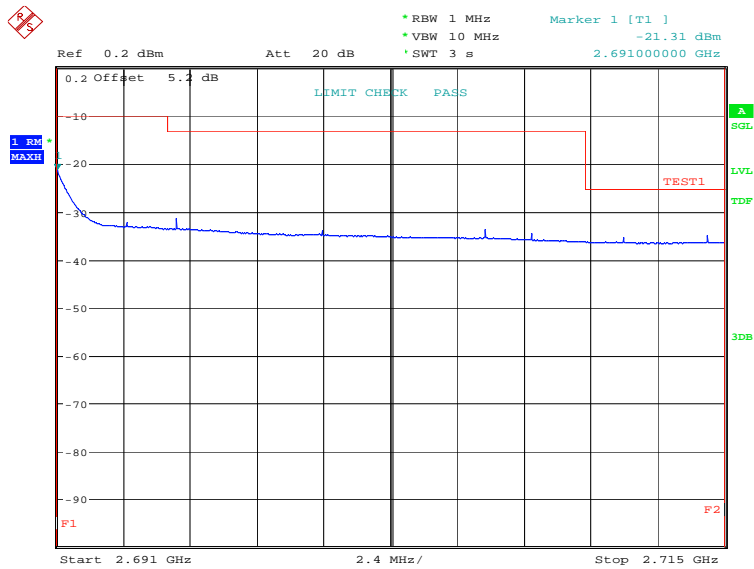


Date: 27.APR.2021 10:19:44

HIGH BAND EDGE BLOCK-20MHz-100%RB

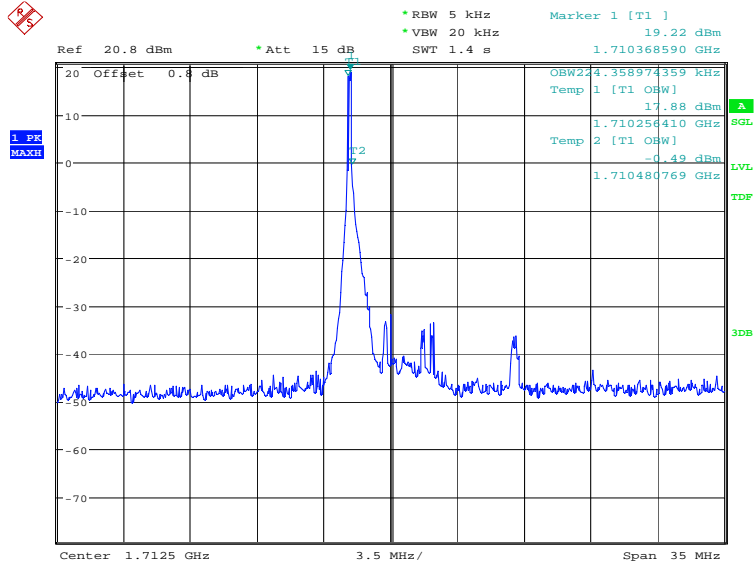


Date: 27.APR.2021 10:24:48



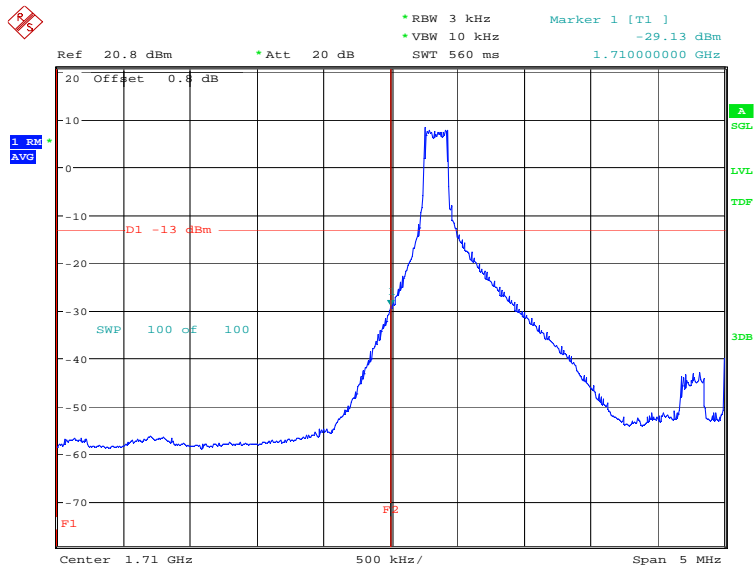
Date: 27.APR.2021 10:25:26

LTE band 66
OBW: 1RB-low_offset



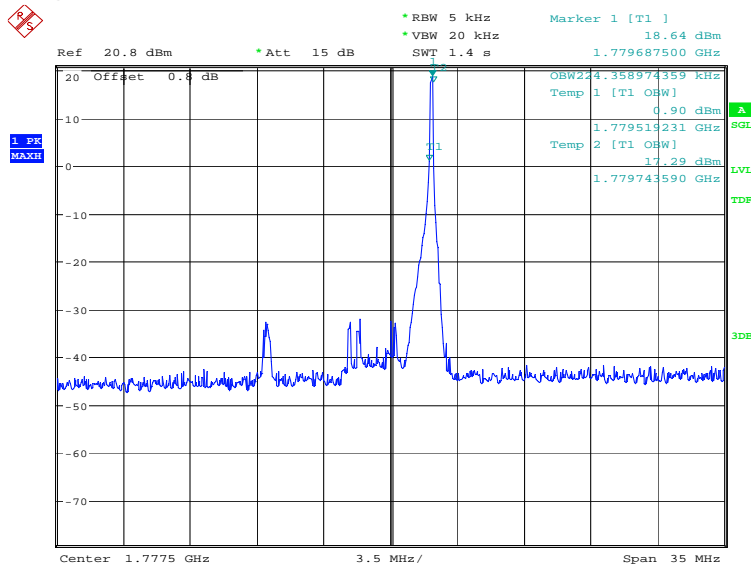
Date: 27.APR.2021 09:21:00

LOW BAND EDGE BLOCK-1RB-low_offset



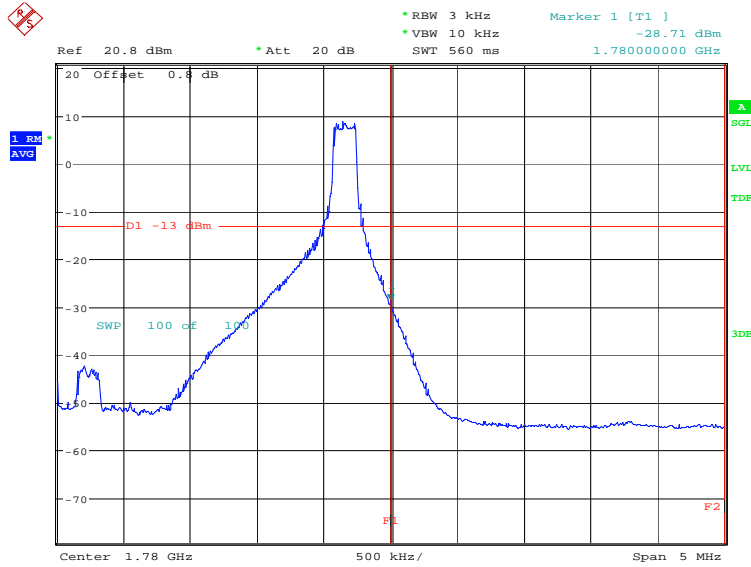
Date: 27.APR.2021 09:22:13

OBW: 1RB-high_offset



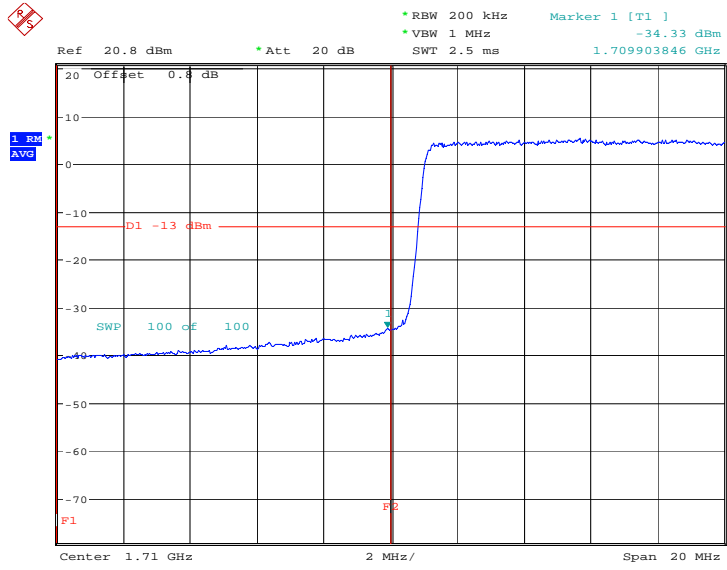
Date: 27.APR.2021 09:22:49

HIGH BAND EDGE BLOCK-1RB-high_offset



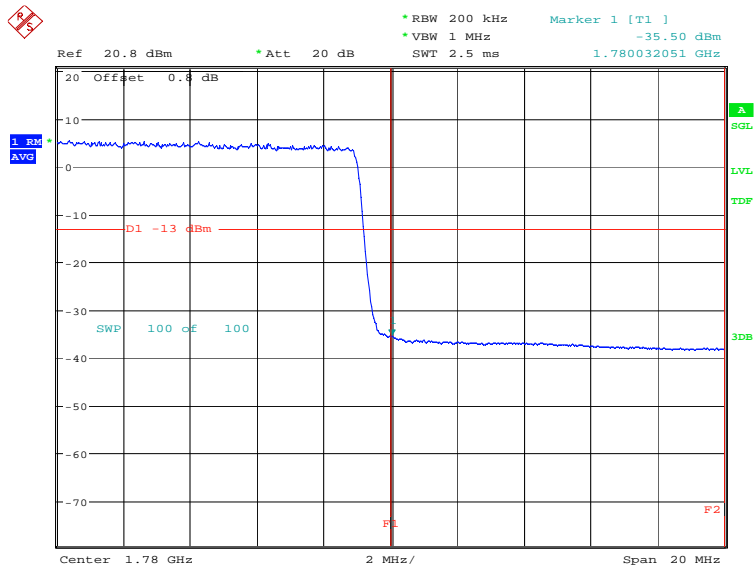
Date: 27.APR.2021 09:24:02

LOW BAND EDGE BLOCK-20MHz-100%RB



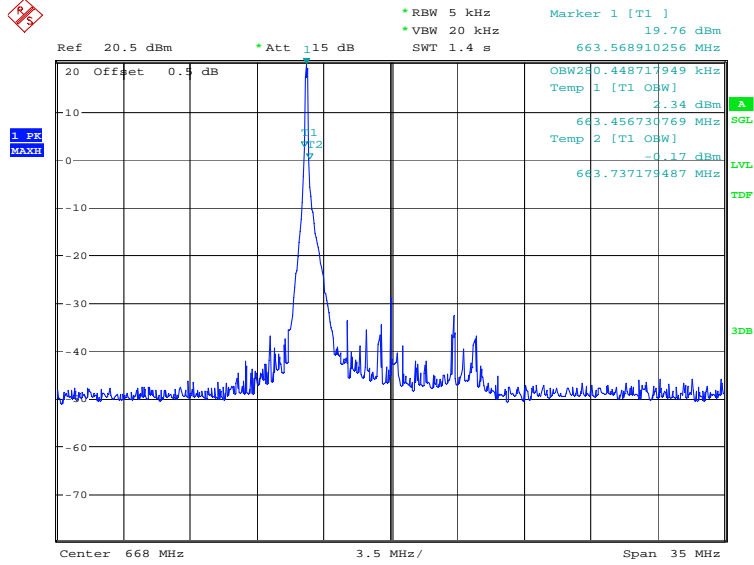
Date: 8.MAR.2021 17:19:27

HIGH BAND EDGE BLOCK-20MHz-100%RB



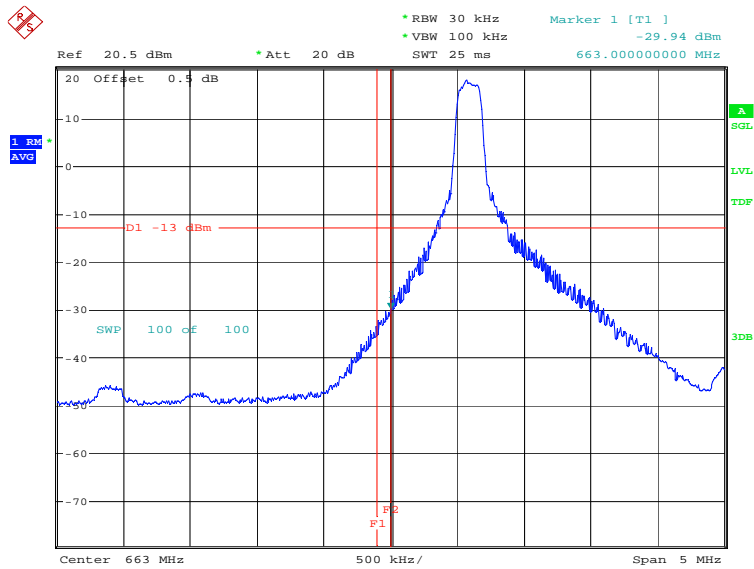
Date: 8.MAR.2021 17:21:22

LTE band 71
OBW: 1RB-low_offset



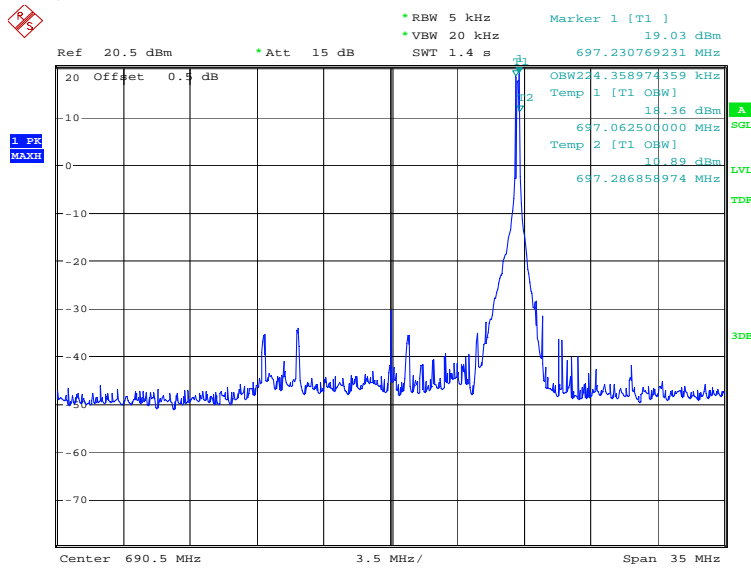
Date: 27.APR.2021 09:48:19

LOW BAND EDGE BLOCK-1RB-low_offset



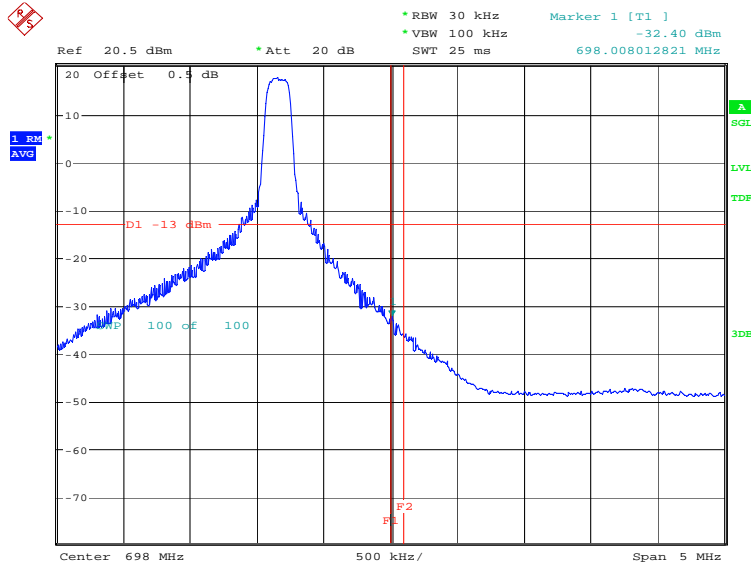
Date: 27.APR.2021 09:48:38

OBW: 1RB-high_offset



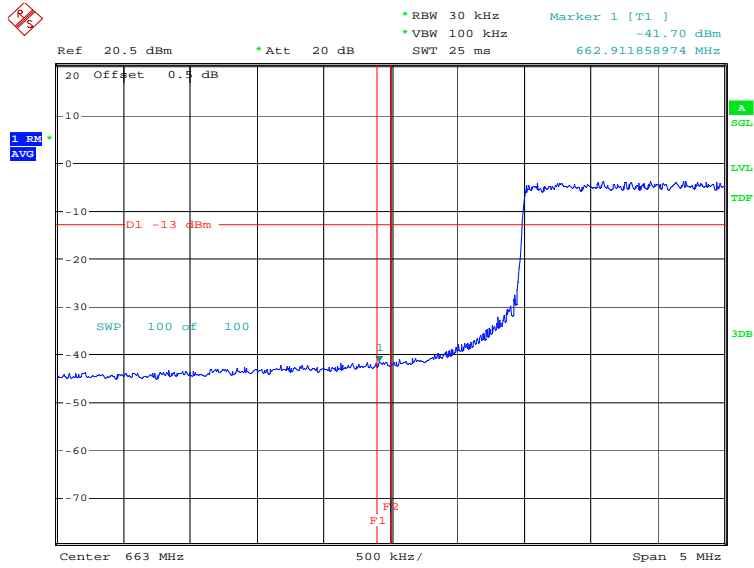
Date: 27.APR.2021 09:49:25

HIGH BAND EDGE BLOCK-1RB-high_offset



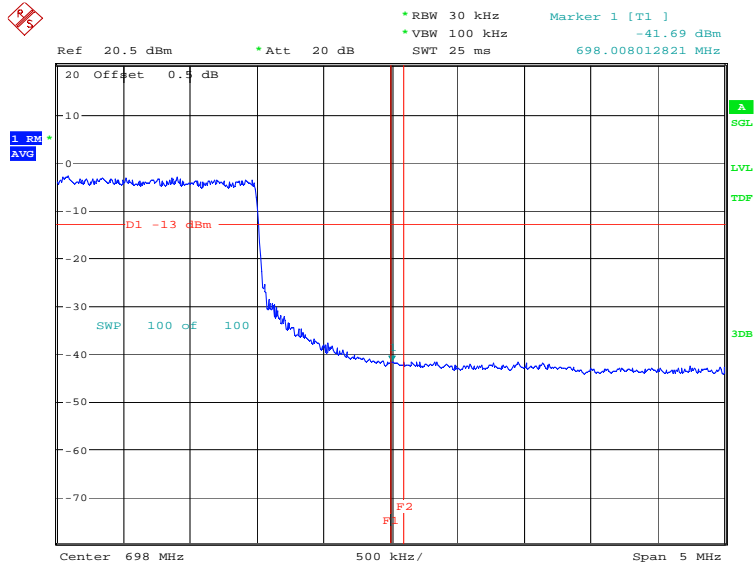
Date: 27.APR.2021 09:49:44

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 8.MAR.2021 16:14:16

HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 8.MAR.2021 16:09:57

A.7 Conducted Spurious Emission

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
 - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
 - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is greater than $2 \times \text{span}/\text{RBW}$.

A. 7.2 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(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

Part 27.53(f) states for operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals.



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.

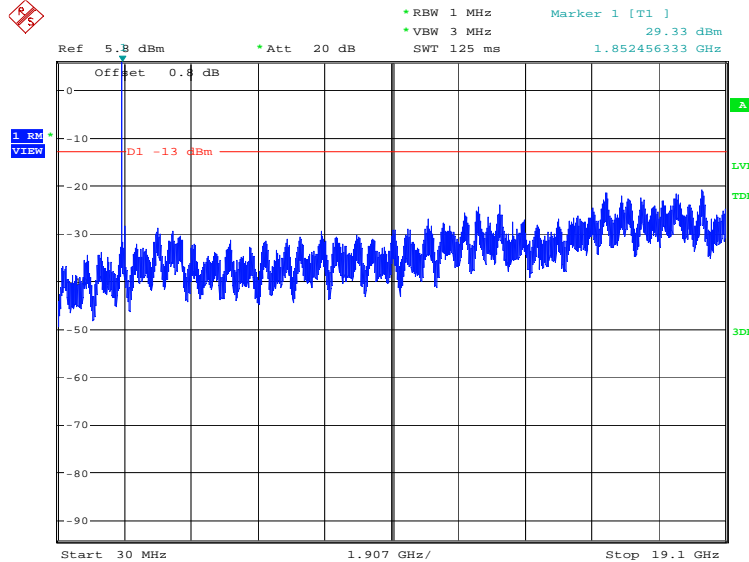
Part 90.691 states that out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee’s frequency block by 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.

A. 7.3 Measurement result

Only the worst case result is given below

LTE band 2: 30MHz – 19.1GHz

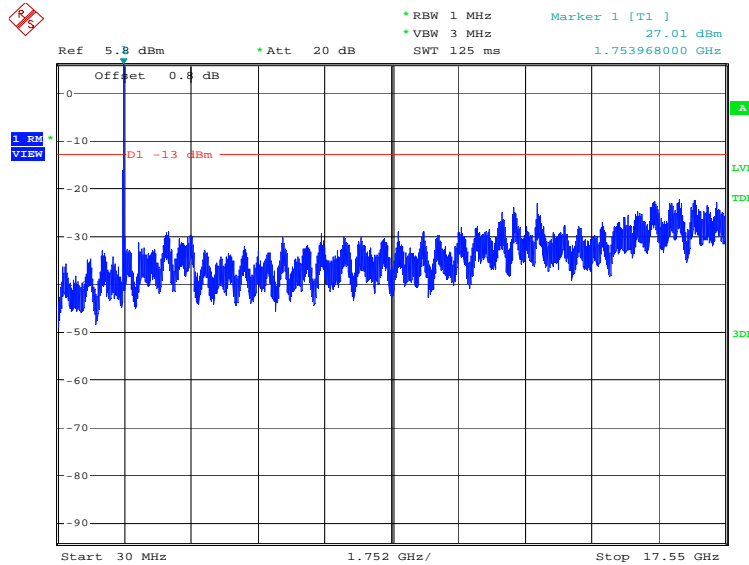
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 09:25:18

LTE band 4: 30MHz – 17.55GHz

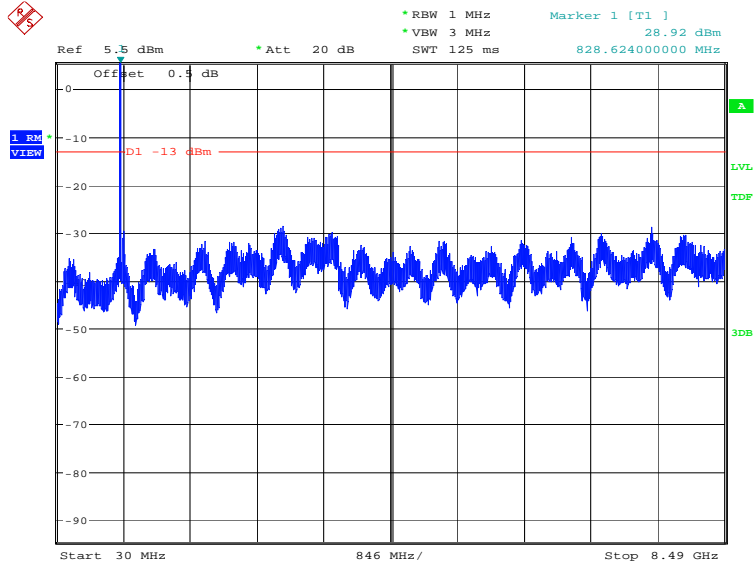
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 09:26:11

LTE band 5: 30MHz – 8.49GHz

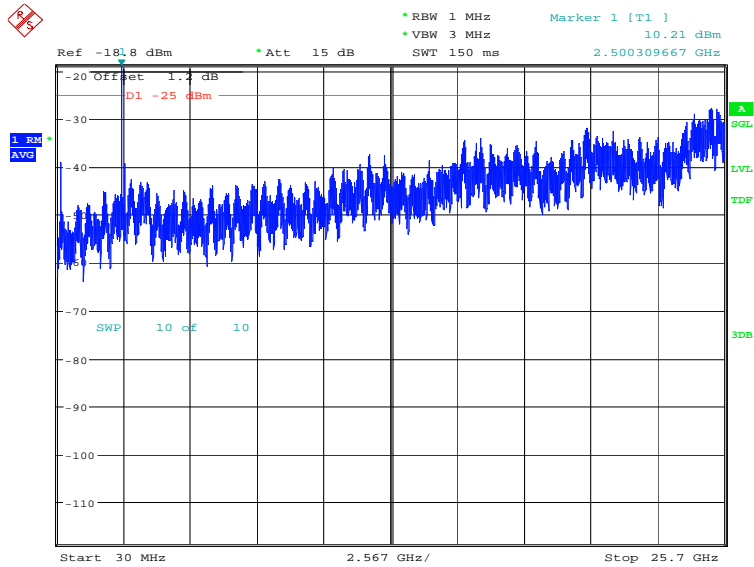
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 10:29:21

LTE band 7: 30MHz – 25.7GHz

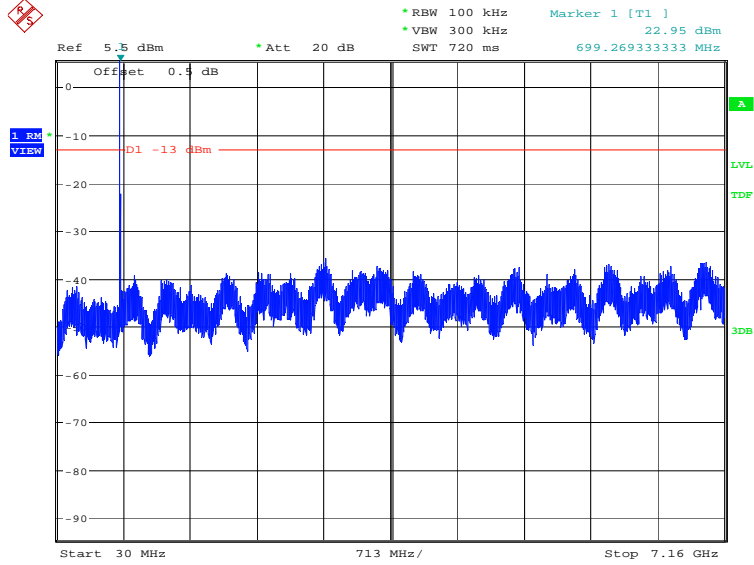
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 10:29:58

LTE band 12: 30MHz – 7.16GHz

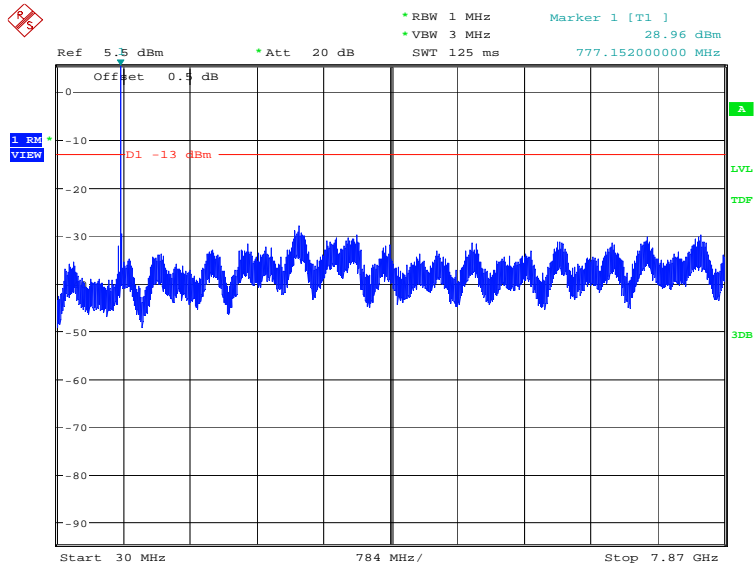
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 10:30:40

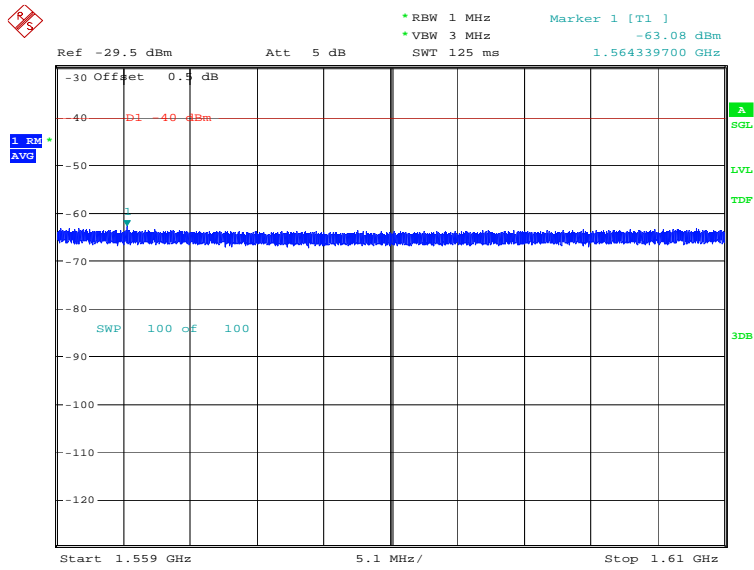
LTE band 13: 30MHz – 7.87GHz

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



Date: 27.APR.2021 10:32:01

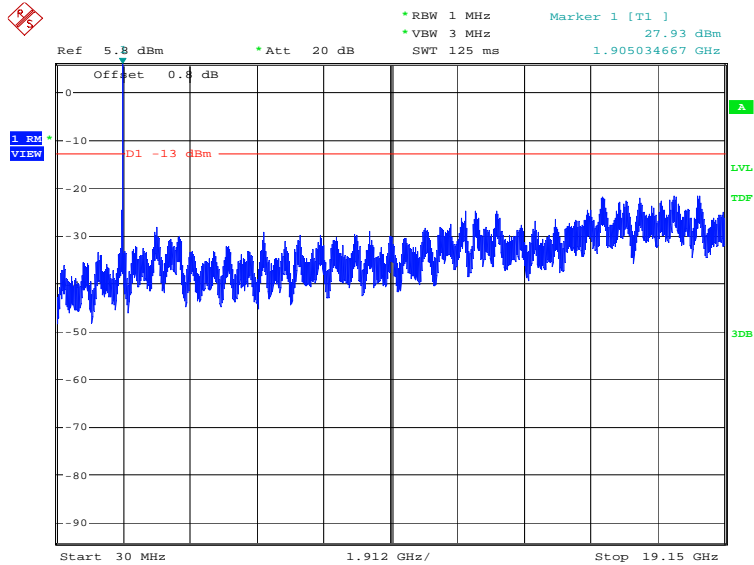
LTE band 13: 1559MHz – 1610MHz



Date: 27.APR.2021 10:32:35

LTE band 25: 30MHz – 19.15GHz

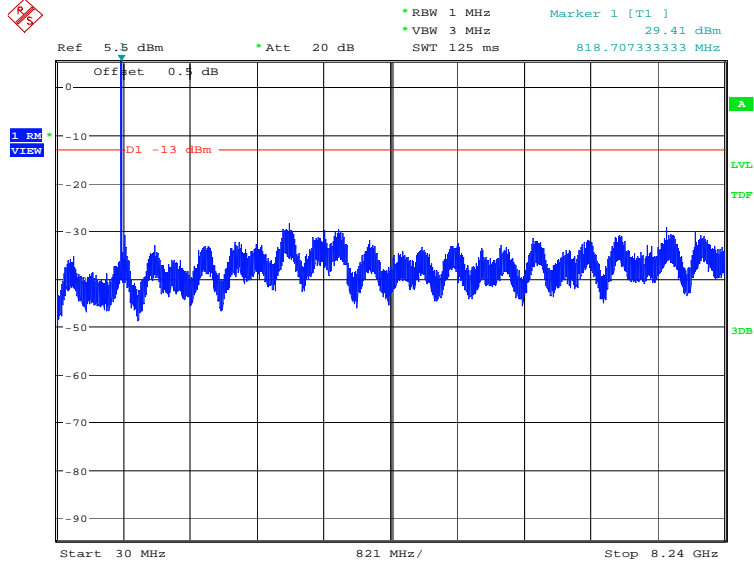
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 09:26:52

LTE band 26(814MHz~824MHz): 30MHz – 8.24GHz

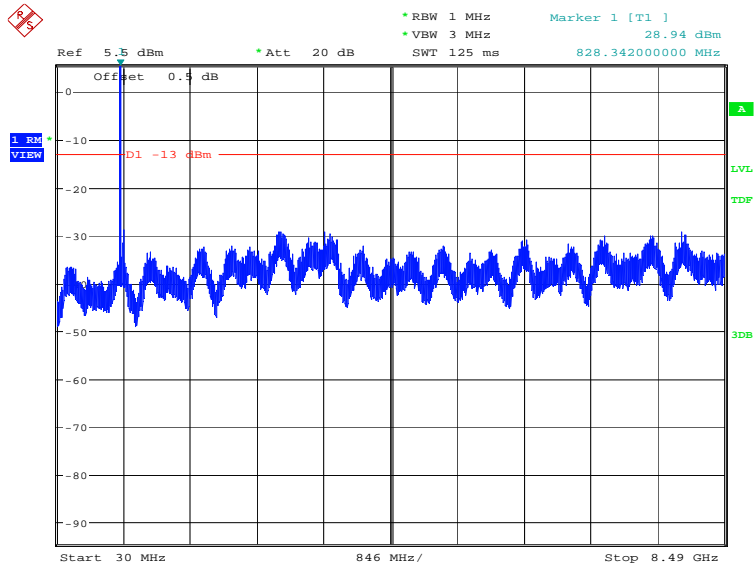
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 10:33:58

LTE band 26(824MHz~849MHz): 30MHz – 8.49GHz

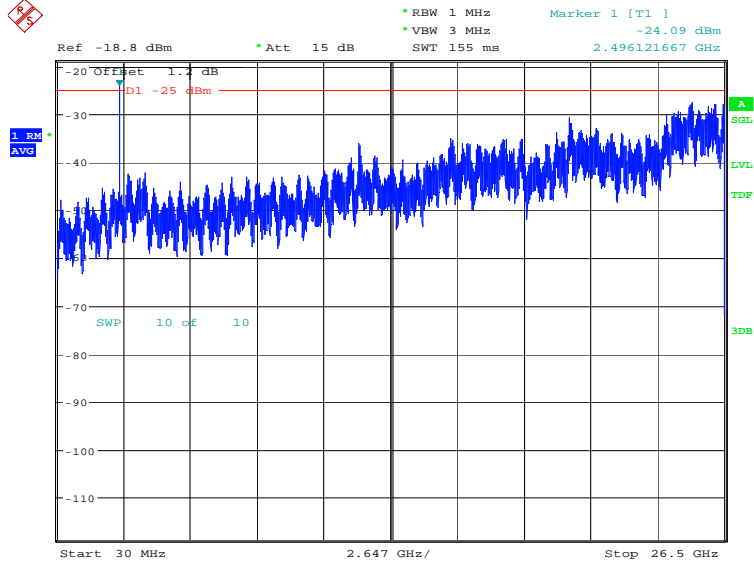
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 10:33:17

LTE band 41: 30MHz – 26.5GHz

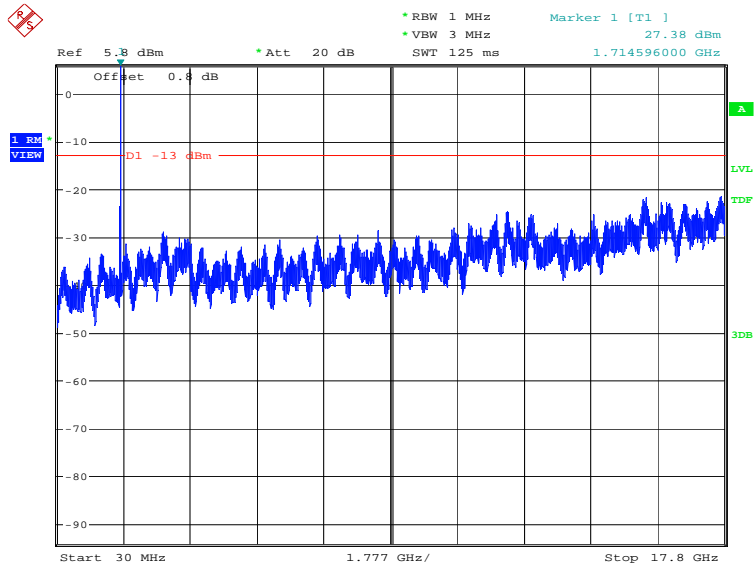
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 10:35:02

LTE band 66: 30MHz – 17.8GHz

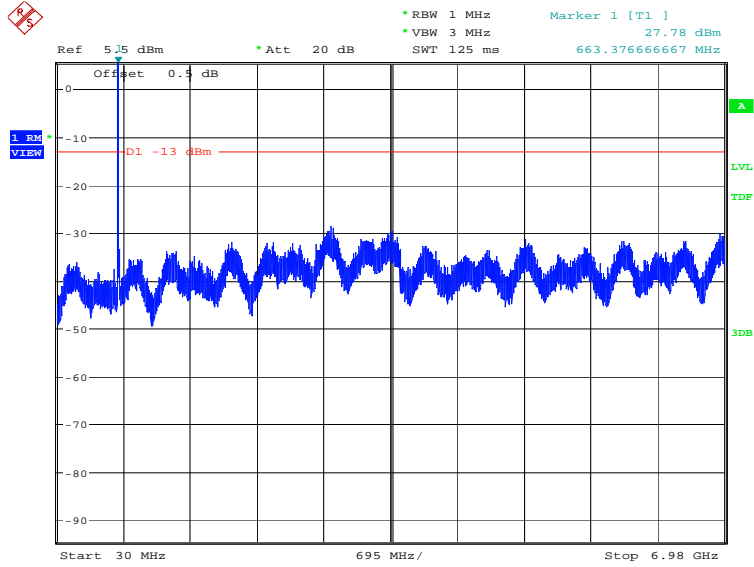
NOTE: peak above the limit line is the carrier frequency.



Date: 27.APR.2021 09:28:14

LTE band 71: 30MHz – 6.98GHz

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



Date: 27.APR.2021 10:27:53

A.8 Peak-to-Average Power Ratio

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum PAPR level associated with a probability of 0.1%.

LTE band 2, 20MHz

Frequency (MHz)	PAPR (dB)		
1880.0	QPSK	16QAM	64QAM
	6.67	7.17	7.40

LTE band 4, 20MHz

Frequency (MHz)	PAPR (dB)		
1732.5	QPSK	16QAM	64QAM
	6.51	7.24	7.34

LTE band 7, 20MHz

Frequency (MHz)	PAPR (dB)		
2535.0	QPSK	16QAM	64QAM
	6.89	7.28	7.44

LTE band 12, 10MHz

Frequency (MHz)	PAPR (dB)		
707.5	QPSK	16QAM	64QAM
	5.61	6.35	6.63

LTE band 13, 10MHz

Frequency (MHz)	PAPR (dB)		
782.0	QPSK	16QAM	64QAM
	5.77	6.51	6.67

LTE band 25, 20MHz

Frequency (MHz)	PAPR (dB)		
1882.5	QPSK	16QAM	64QAM
	6.73	7.34	7.37

LTE band 41, 20MHz

Frequency (MHz)	PAPR (dB)		
2593.0	QPSK	16QAM	64QAM
	8.27	8.88	8.96

LTE band 66, 20MHz

Frequency (MHz)	PAPR (dB)		
1745.0	QPSK	16QAM	64QAM
	6.51	7.08	7.34

LTE band 71, 20MHz

Frequency (MHz)	PAPR (dB)		
680.5	QPSK	16QAM	64QAM
	6.51	7.18	7.34

Annex B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> <p>NVLAP® </p> <hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<p>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

END OF REPORT