

LTE Band 5B, QPSK, Channel 20450+20549

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1660.00	-49.03	3.57	9.52	2.15	-45.23	-13.00	32.23	V
2481.00	-42.83	4.60	10.28	2.15	-39.30	-13.00	26.30	V
3321.50	-62.65	5.29	10.44	2.15	-59.65	-13.00	46.65	H
4146.50	-59.23	6.08	10.40	2.15	-57.06	-13.00	44.06	H
4977.00	-59.01	6.64	11.25	2.15	-56.55	-13.00	43.55	H
5808.00	-56.83	7.18	10.97	2.15	-55.19	-13.00	42.19	H

LTE Band 5B, QPSK, Channel 20476+20575

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1663.00	-49.27	3.57	9.53	2.15	-45.46	-13.00	32.46	V
2484.00	-43.19	4.61	10.26	2.15	-39.69	-13.00	26.69	V
3332.00	-61.42	5.30	10.46	2.15	-58.41	-13.00	45.41	H
4159.00	-58.22	6.11	10.42	2.15	-56.06	-13.00	43.06	V
5000.50	-57.06	6.60	11.30	2.15	-54.51	-13.00	41.51	H
5830.00	-56.60	7.17	10.88	2.15	-55.04	-13.00	42.04	V

LTE Band 5B, QPSK, Channel 20501+20600

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1681.50	-48.70	3.59	9.56	2.15	-44.88	-13.00	31.88	H
2489.00	-42.94	4.61	10.24	2.15	-39.46	-13.00	26.46	V
3329.50	-62.72	5.30	10.46	2.15	-59.71	-13.00	46.71	V
4169.50	-59.26	6.14	10.44	2.15	-57.11	-13.00	44.11	H
5004.00	-58.96	6.60	11.31	2.15	-56.40	-13.00	43.40	V
5826.00	-56.59	7.16	10.90	2.15	-55.00	-13.00	42.00	H

LTE Band 66B, QPSK, Channel 132022+132121

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3419.50	-61.62	5.38	8.01	-58.99	-13.00	45.99	V
5134.00	-59.49	6.86	10.09	-56.26	-13.00	43.26	V
6878.00	-56.66	7.79	11.45	-53.00	-13.00	40.00	V
8580.00	-54.19	8.53	13.02	-49.70	-13.00	36.70	H
10296.50	-51.61	9.63	13.02	-48.22	-13.00	35.22	V
12006.00	-49.93	10.07	13.00	-47.00	-13.00	34.00	V

LTE Band 66B, QPSK, Channel 132373+132472

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3515.50	-61.02	5.55	8.22	-58.35	-13.00	45.35	V
5252.50	-59.06	7.00	10.25	-55.81	-13.00	42.81	H
7002.00	-55.61	8.30	11.60	-52.31	-13.00	39.31	H
8762.50	-53.69	8.55	13.05	-49.19	-13.00	36.19	H
10483.50	-50.66	9.68	13.09	-47.25	-13.00	34.25	V
12265.00	-49.63	10.02	13.11	-46.54	-13.00	33.54	V

LTE Band 66B, QPSK, Channel 132523+132622

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3534.00	-60.75	5.66	8.25	-58.16	-13.00	45.16	V
5289.50	-60.27	6.99	10.31	-56.95	-13.00	43.95	V
7063.50	-55.51	8.21	11.68	-52.04	-13.00	39.04	V
8817.00	-54.56	8.69	13.06	-50.19	-13.00	37.19	H
10573.00	-51.01	9.38	13.11	-47.28	-13.00	34.28	V
12345.50	-50.31	10.20	13.14	-47.37	-13.00	34.37	H

LTE Band 66C, QPSK, Channel 132072+132270

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3437.00	-60.52	5.41	8.05	-57.88	-13.00	44.88	H
5165.00	-58.93	6.91	10.13	-55.71	-13.00	42.71	H
6896.50	-56.20	7.76	11.48	-52.48	-13.00	39.48	V
8602.50	-55.03	8.49	13.02	-50.50	-13.00	37.50	H
10338.50	-51.30	9.70	13.04	-47.96	-13.00	34.96	V
12036.50	-50.25	10.16	13.01	-47.40	-13.00	34.40	V

LTE Band 66C, QPSK, Channel 132323+132521

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3509.50	-60.65	5.54	8.21	-57.98	-13.00	44.98	V
5253.00	-59.05	7.00	10.25	-55.80	-13.00	42.80	V
6985.00	-56.53	8.18	11.58	-53.13	-13.00	40.13	V
8707.00	-54.19	8.38	13.04	-49.53	-13.00	36.53	H
10469.50	-50.08	9.70	13.09	-46.69	-13.00	33.69	V
12213.50	-49.95	10.05	13.09	-46.91	-13.00	33.91	H

LTE Band 66C, QPSK, Channel 132374+132572

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3506.00	-60.80	5.53	8.21	-58.12	-13.00	45.12	H
5244.00	-59.72	7.00	10.24	-56.48	-13.00	43.48	V
7003.00	-55.02	8.29	11.60	-51.71	-13.00	38.71	H
8733.00	-55.00	8.46	13.05	-50.41	-13.00	37.41	V
10485.50	-50.94	9.67	13.09	-47.52	-13.00	34.52	V
12254.50	-49.36	10.02	13.10	-46.28	-13.00	33.28	V

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

Semi-anechoic chamber 4 with absorbers

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	5.76dB(k=2)
	1GHz-18GHz	4.23dB(k=2)
	18GHz-40GHz	3.72dB(k=2)

A.3 Frequency Stability

A.3.1 Method of Measurement

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

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

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C decrements from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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

A.3.2 Measurement results

LTE Band 12, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	699.481	715.519		
50				-1.03	0.0015
40				0.96	0.0014
30				0.53	0.0007
10				-0.43	0.0006
0				-0.34	0.0005
-10				-1.26	0.0018
-20				-1.83	0.0026
-30				2.39	0.0034

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.481	715.519	-0.72	0.0010
4.4				-0.40	0.0006

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	777.465	786.519		
50				-2.73	0.0035
40				-1.29	0.0016
30				0.30	0.0004
10				-0.72	0.0009
0				-3.36	0.0043
-10				-0.82	0.0010
-20				0.01	0.0000
-30				-3.83	0.0049

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.465	786.519	-2.57	0.0033
4.4				-1.72	0.0022

LTE Band 25, 20MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1850.833	1914.199		
50				2.62	0.0014
40				5.45	0.0029
30				4.13	0.0022
10				4.96	0.0026
0				5.05	0.0027
-10				6.41	0.0034
-20				4.68	0.0025
-30				3.82	0.0020

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.833	1914.199	3.28	0.0017
4.4				4.25	0.0023

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	814.385	823.615		
50				3.16	0.0039
40				-0.06	0.0001
30				1.37	0.0017
10				1.82	0.0022
0				5.26	0.0064
-10				7.32	0.0089
-20				2.99	0.0037
-30				8.03	0.0098

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.385	823.615	0.53	0.0006
4.4				2.32	0.0028

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.553	848.471		
50				-0.36	0.0004
40				0.23	0.0003
30				0.67	0.0008
10				2.62	0.0031
0				2.32	0.0028
-10				1.65	0.0020
-20				1.12	0.0013
-30				2.43	0.0029

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.553	848.471	3.18	0.0038
4.4				-1.47	0.0018

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2496.385	2689.551		
50				-0.19	0.0001
40				1.69	0.0007
30				0.87	0.0003
10				-1.79	0.0007
0				-0.63	0.0002
-10				1.83	0.0007
-20				-2.26	0.0009
-30				0.01	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.385	2689.551	-5.66	0.0022
4.4				-2.39	0.0009

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.833	1779.199		
50				0.26	0.0001
40				0.47	0.0003
30				-0.44	0.0003
10				1.34	0.0008
0				-2.45	0.0014
-10				-1.86	0.0011
-20				-0.33	0.0002
-30				2.39	0.0014

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.833	1779.199	1.02	0.0006
4.4				0.30	0.0002

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	663.994	697.006		
50				-3.18	0.0047
40				-1.37	0.0020
30				-2.06	0.0030
10				-2.12	0.0031
0				-1.22	0.0018
-10				-2.27	0.0033
-20				-0.49	0.0007
-30				-5.74	0.0084

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.994	697.006	-0.11	0.0002
4.4				-0.57	0.0008

LTE CA band 5B, 10MHz+10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.300	848.680		
50				-2.03	0.0024
40				-1.39	0.0017
30				0.06	0.0001
10				-2.27	0.0027
0				-0.80	0.0010
-10				0.89	0.0011
-20				0.66	0.0008
-30				1.04	0.0012

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.300	848.680	-0.04	0.0001
4.4				-0.27	0.0003

LTE CA band 66B, 10MHz+10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.320	1779.680		
50				-1.16	0.0007
40				-0.96	0.0005
30				1.46	0.0008
10				3.65	0.0021
0				3.55	0.0020
-10				2.20	0.0013
-20				1.02	0.0006
-30				0.01	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.320	1779.680	-0.39	0.0002
4.4				0.11	0.0001

LTE CA band 66C, 20MHz+20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.480	1779.520		
50				0.40	0.0002
40				-0.24	0.0001
30				2.79	0.0016
10				0.14	0.0001
0				1.57	0.0009
-10				0.90	0.0005
-20				1.86	0.0011
-30				1.92	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.480	1779.520	-0.44	0.0003
4.4				-0.77	0.0004

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

A.4 Occupied Bandwidth

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

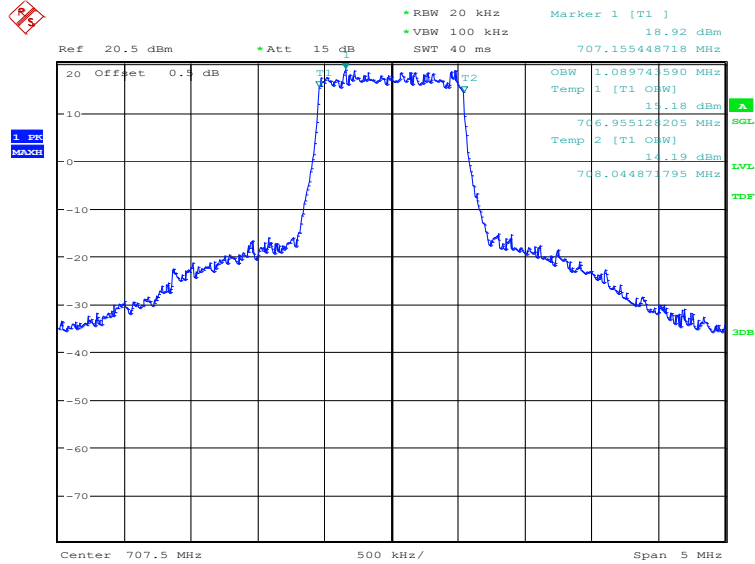
The measurement method is from ANSI C63.26:

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

LTE band 12, 1.4MHz (99%)

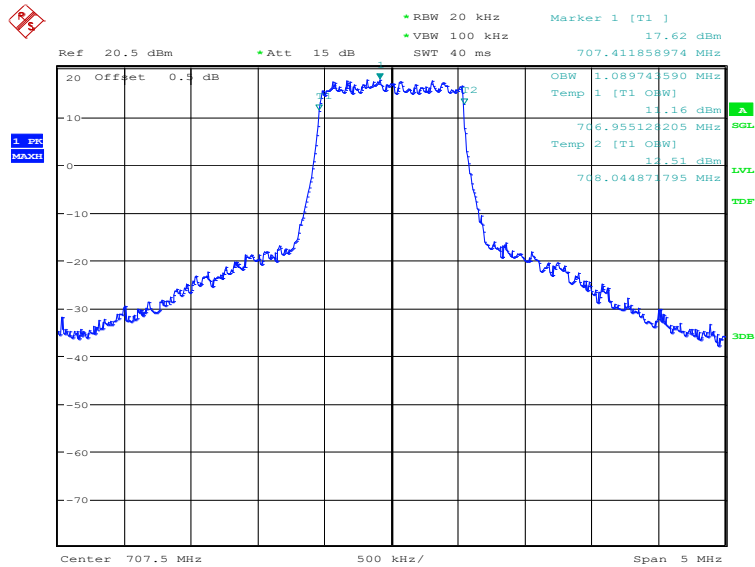
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1089.74

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



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

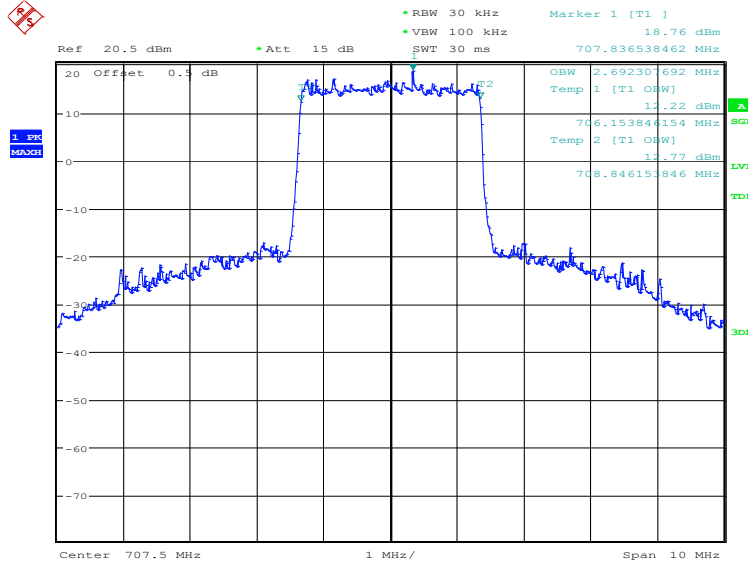


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LTE band 12, 3MHz (99%)

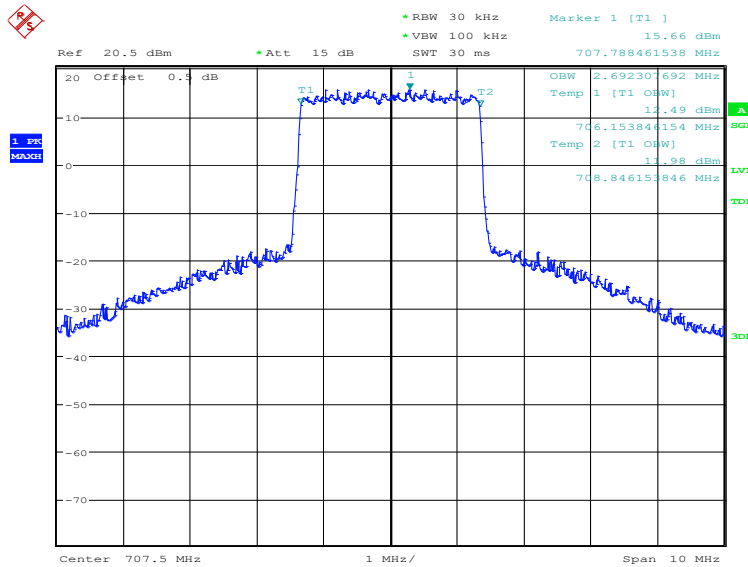
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 16.OCT.2023 14:46:16

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

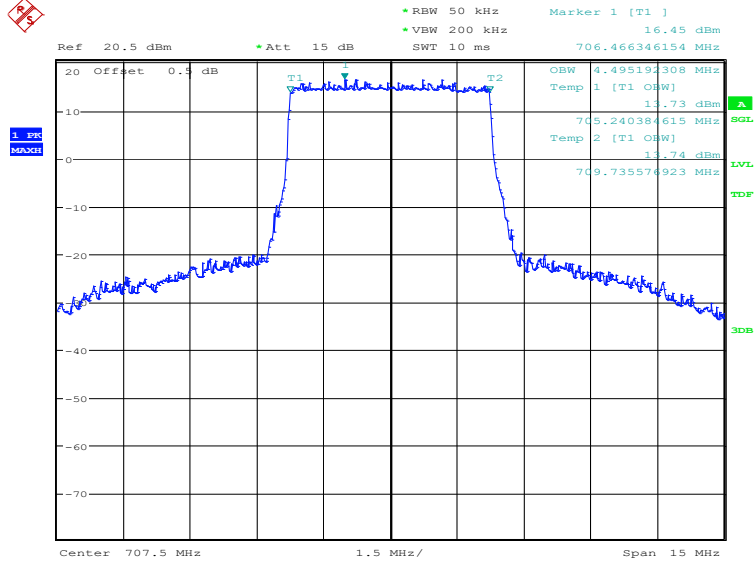


Date: 16.OCT.2023 14:46:56

LTE band 12, 5MHz (99%)

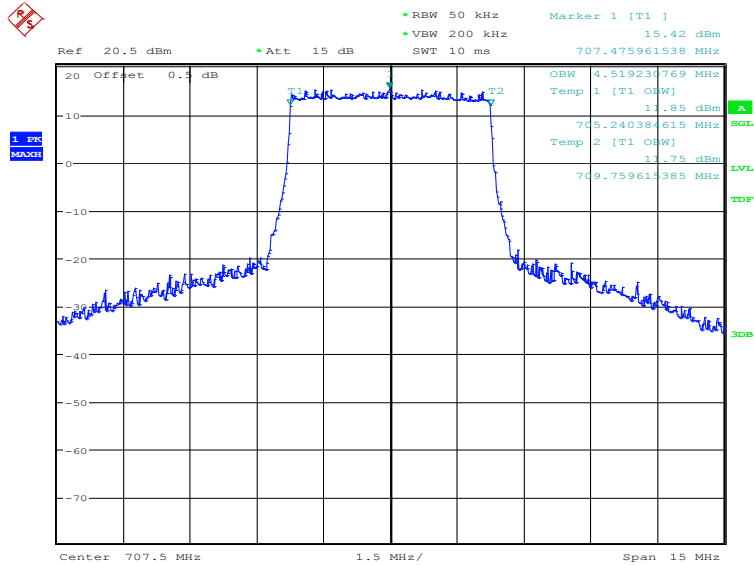
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4519.23

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



Date: 16.OCT.2023 14:47:38

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

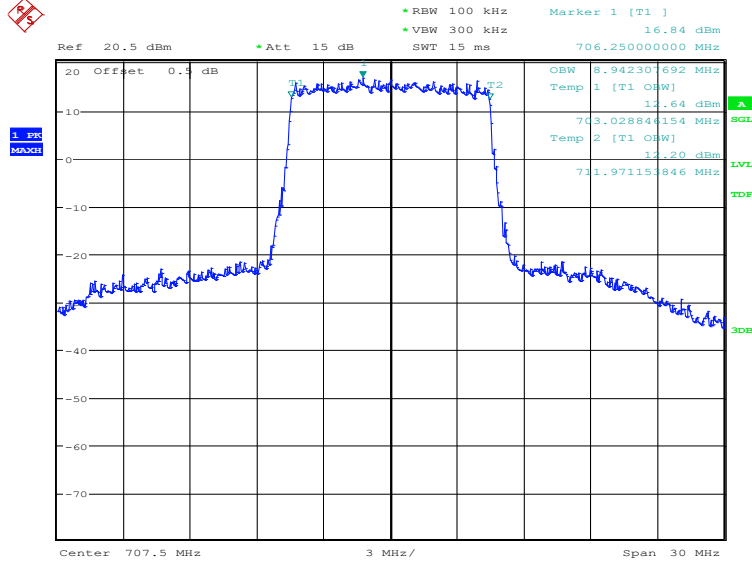


Date: 16.OCT.2023 14:48:18

LTE band 12, 10MHz (99%)

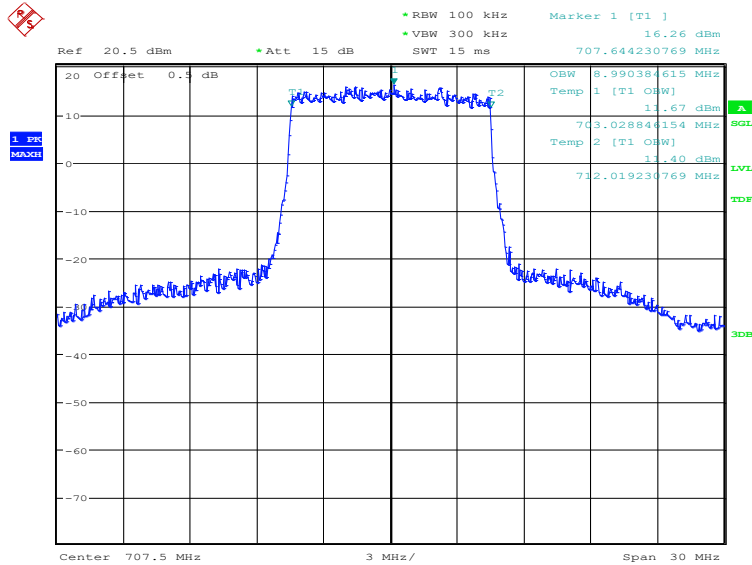
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8942.31	8990.38

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



Date: 16.OCT.2023 14:49:00

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

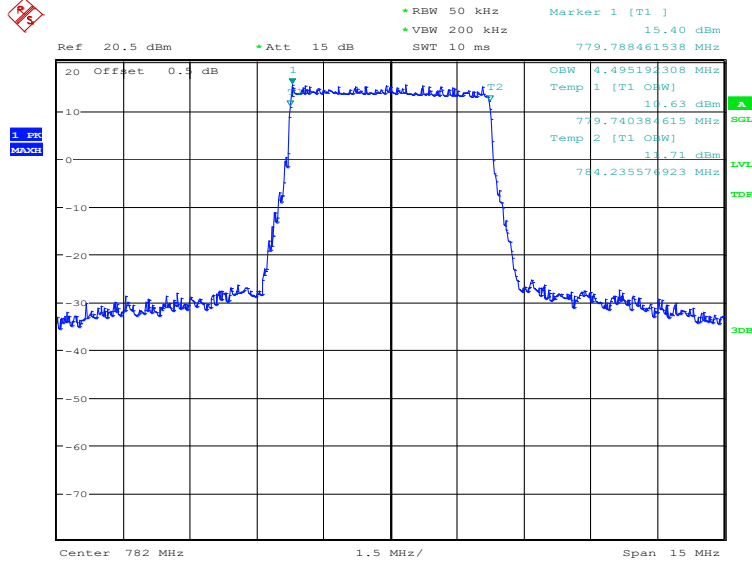


Date: 16.OCT.2023 14:49:40

LTE band 13, 5MHz (99%)

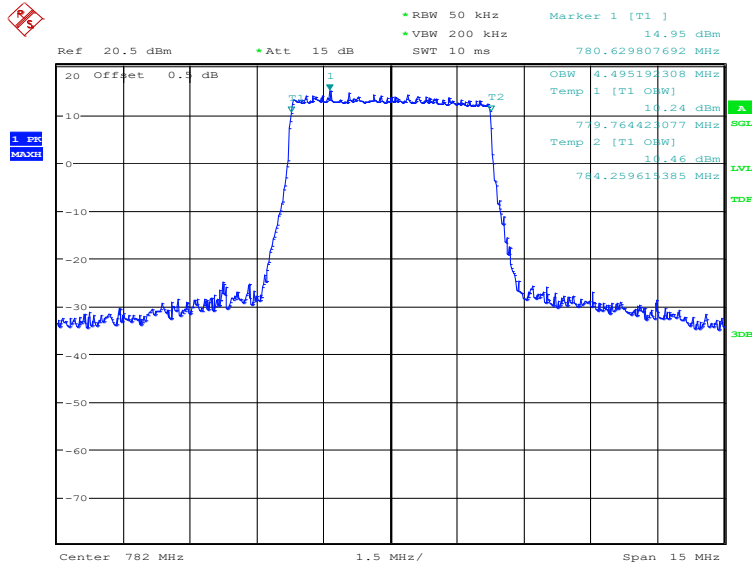
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 16.OCT.2023 14:50:23

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

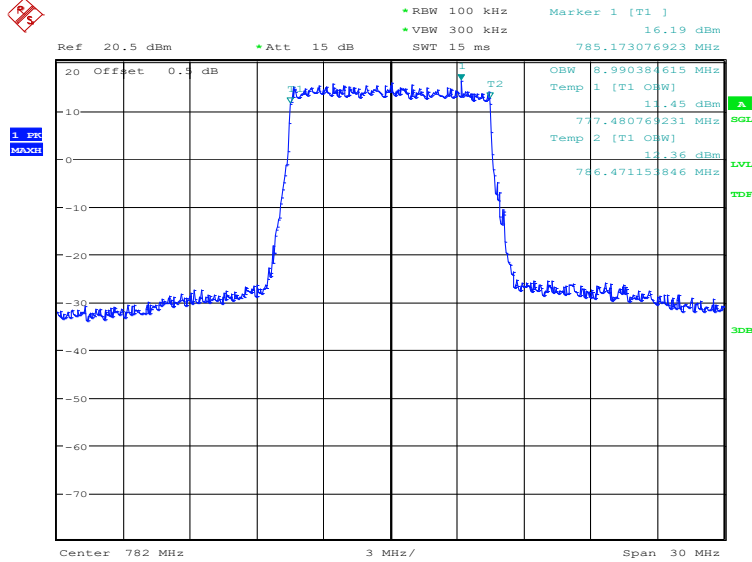


Date: 16.OCT.2023 14:51:04

LTE band 13, 10MHz (99%)

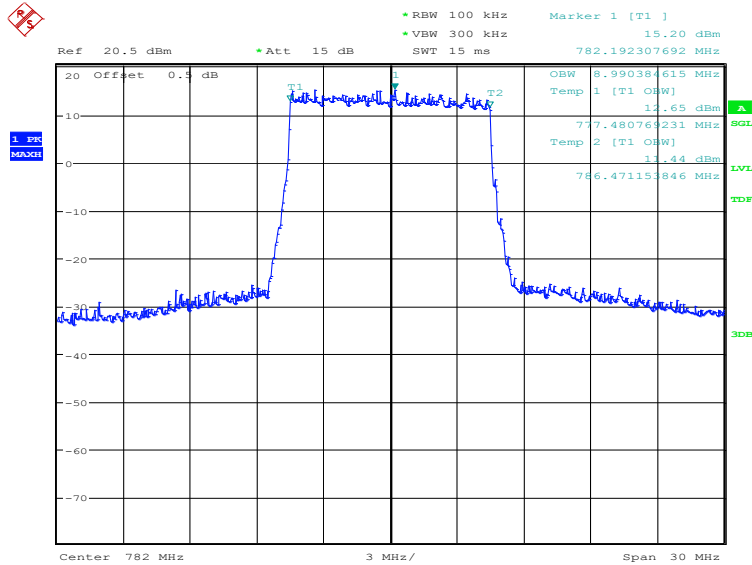
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 16.OCT.2023 14:51:46

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

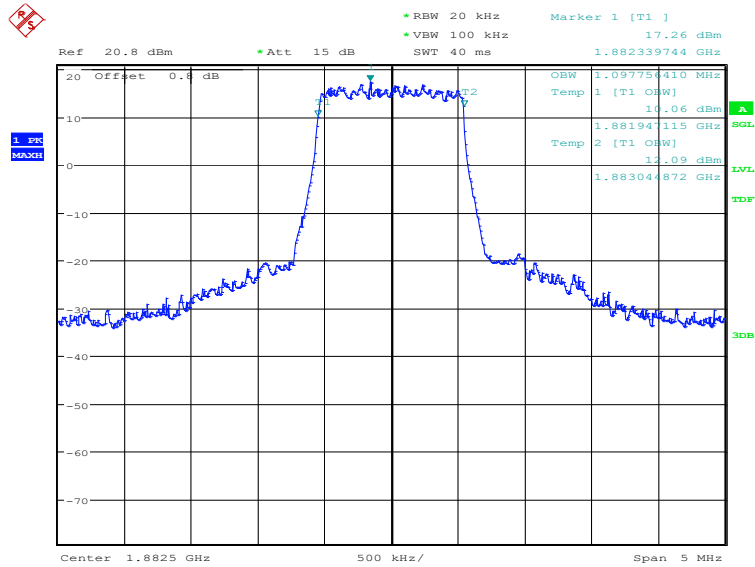


Date: 16.OCT.2023 14:52:26

LTE band 25, 1.4MHz (99%)

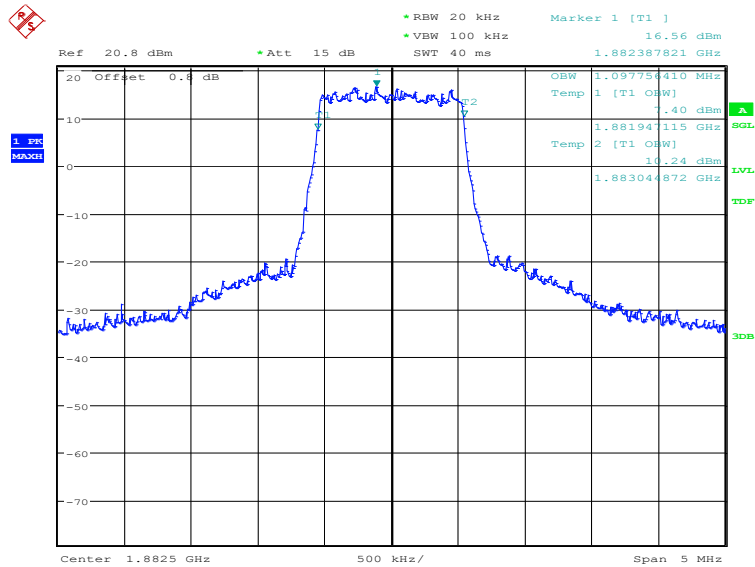
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1097.76	1097.76

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



Date: 16.OCT.2023 14:53:10

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

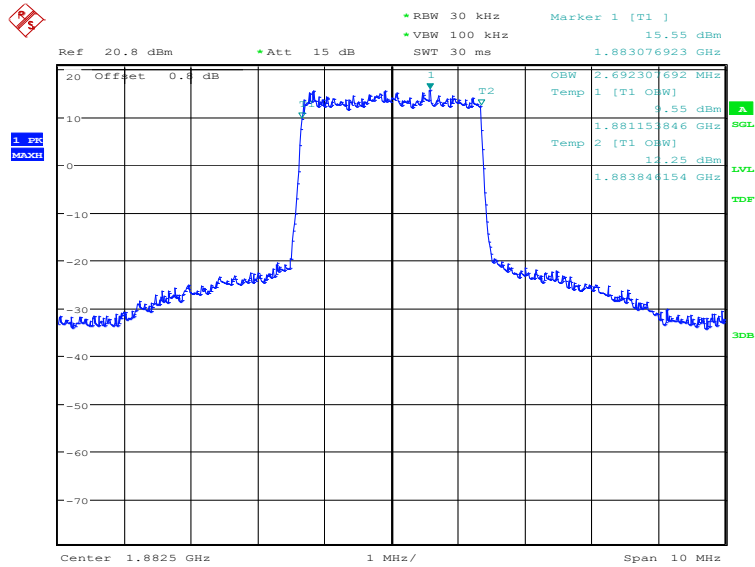


Date: 16.OCT.2023 14:53:50

LTE band 25, 3MHz (99%)

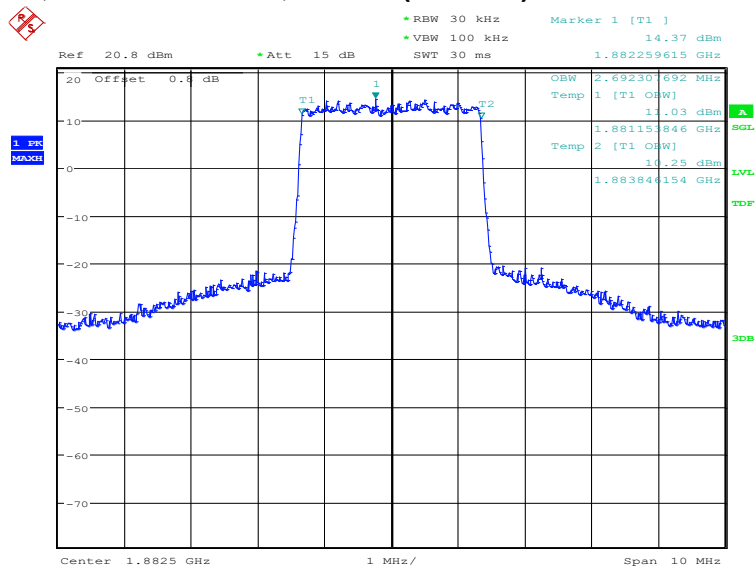
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 16.OCT.2023 14:54:31

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

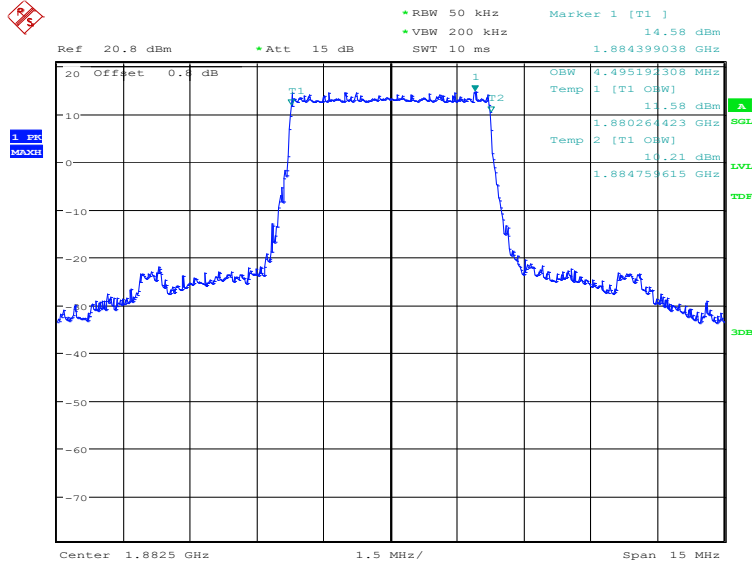


Date: 16.OCT.2023 14:55:12

LTE band 25, 5MHz (99%)

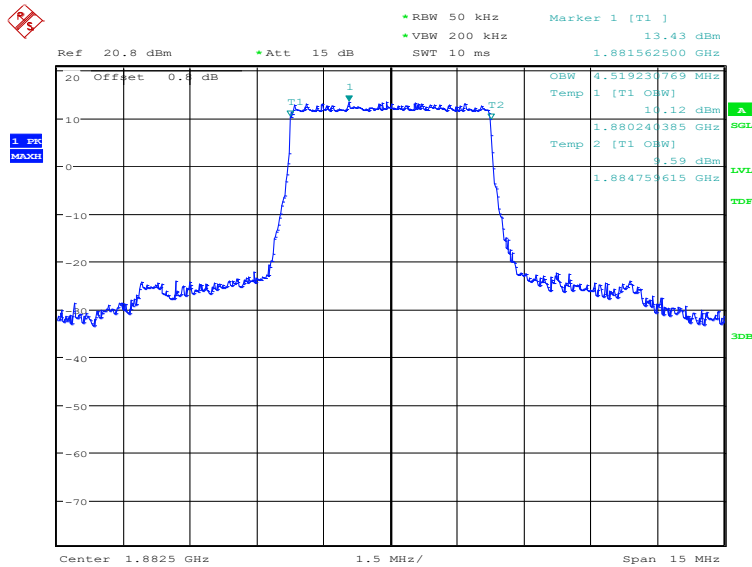
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4495.19	4519.23

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



Date: 16.OCT.2023 14:55:54

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

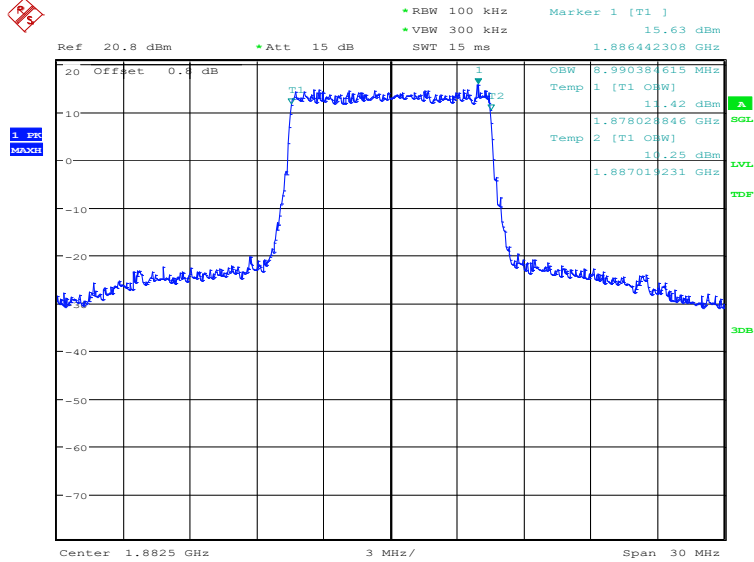


Date: 16.OCT.2023 14:56:34

LTE band 25, 10MHz (99%)

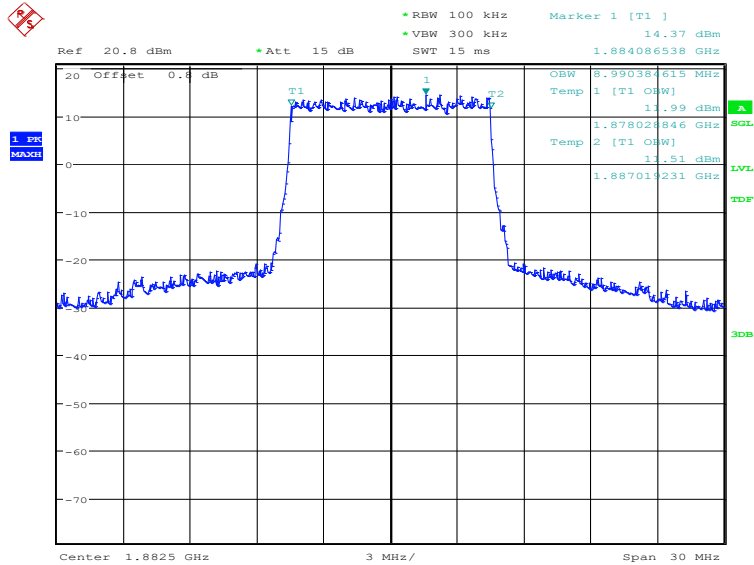
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	8990.38	8990.38

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



Date: 16.OCT.2023 14:57:16

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

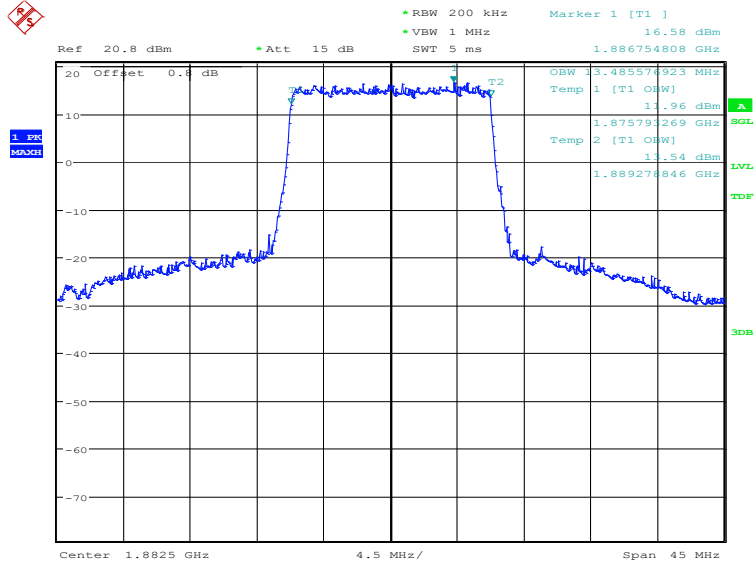


Date: 16.OCT.2023 14:57:56

LTE band 25, 15MHz (99%)

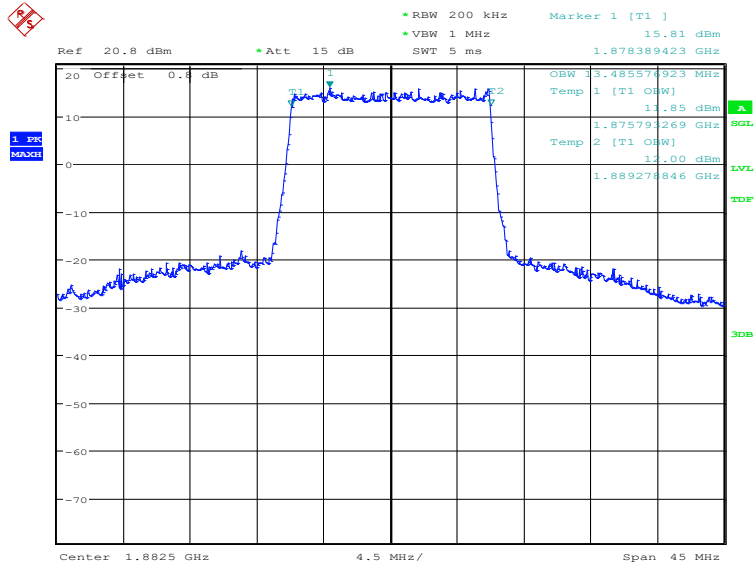
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 16.OCT.2023 14:58:38

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

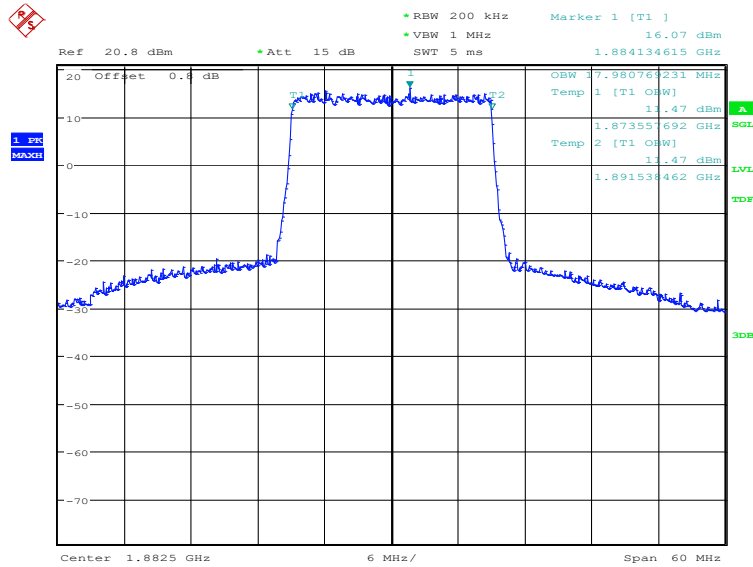


Date: 16.OCT.2023 14:59:18

LTE band 25, 20MHz (99%)

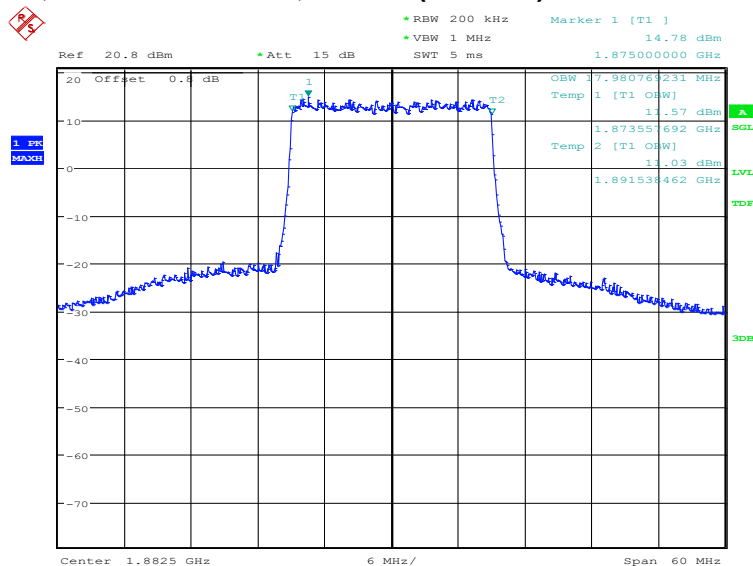
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 16.OCT.2023 15:00:00

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

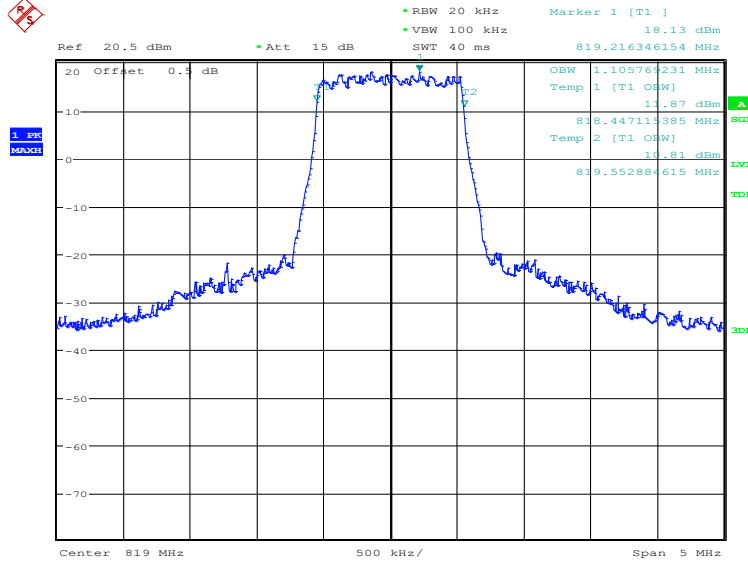


Date: 16.OCT.2023 15:00:41

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

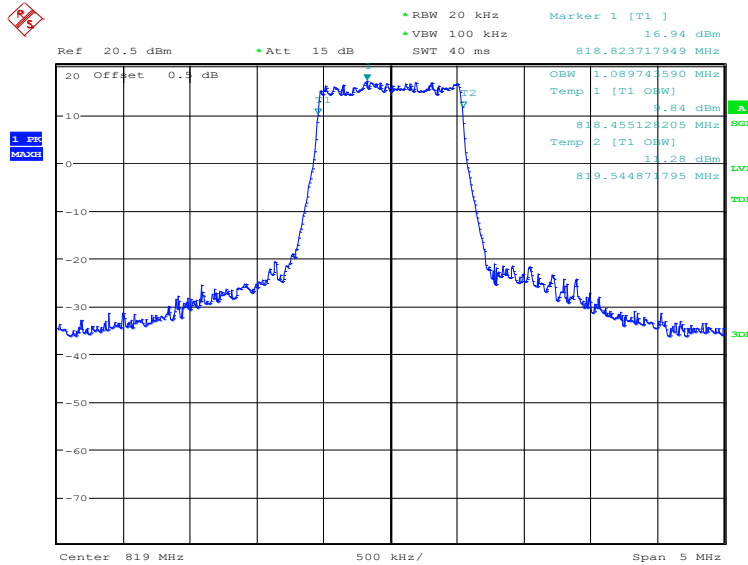
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1105.77	1089.74

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



Date: 16.OCT.2023 15:08:58

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

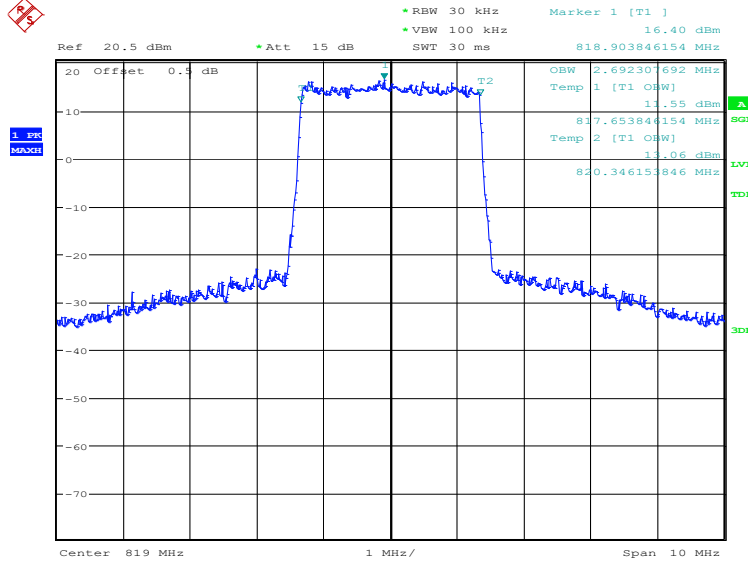


Date: 16.OCT.2023 15:09:38

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

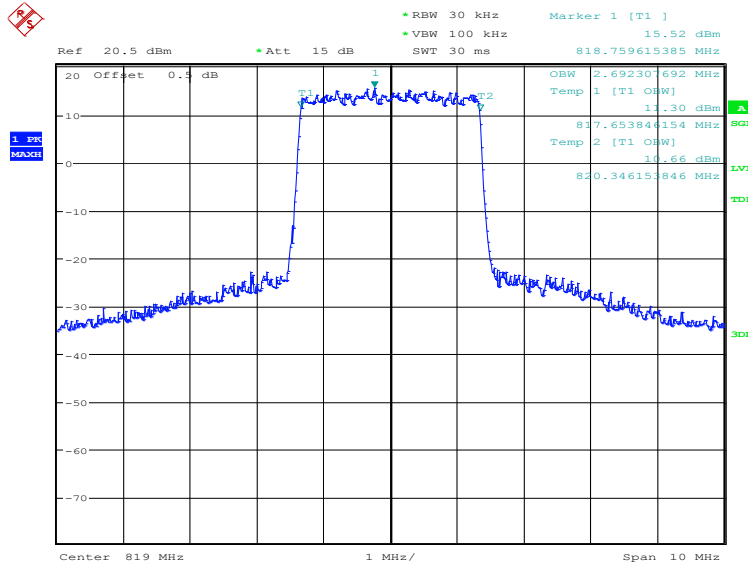
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 16.OCT.2023 15:10:20

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

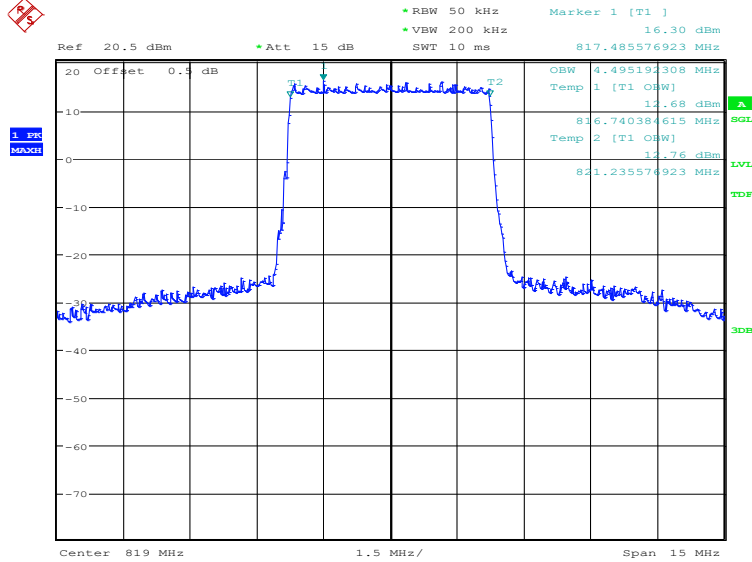


Date: 16.OCT.2023 15:11:00

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

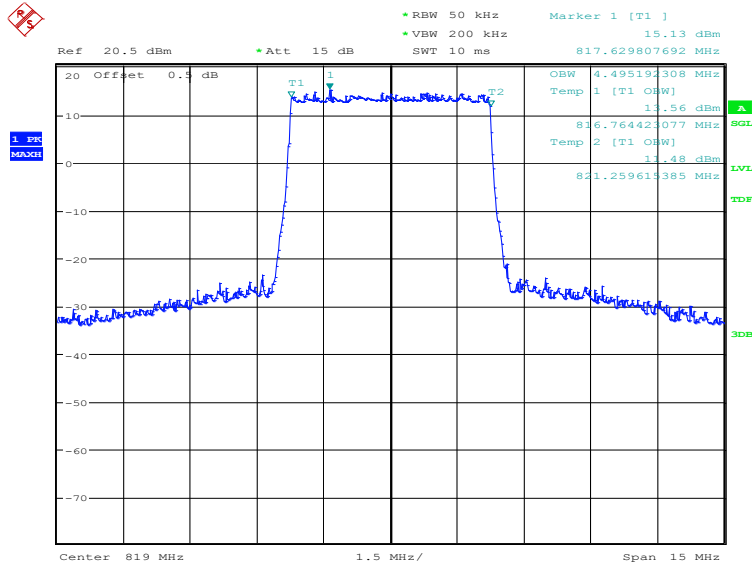
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 16.OCT.2023 15:11:42

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

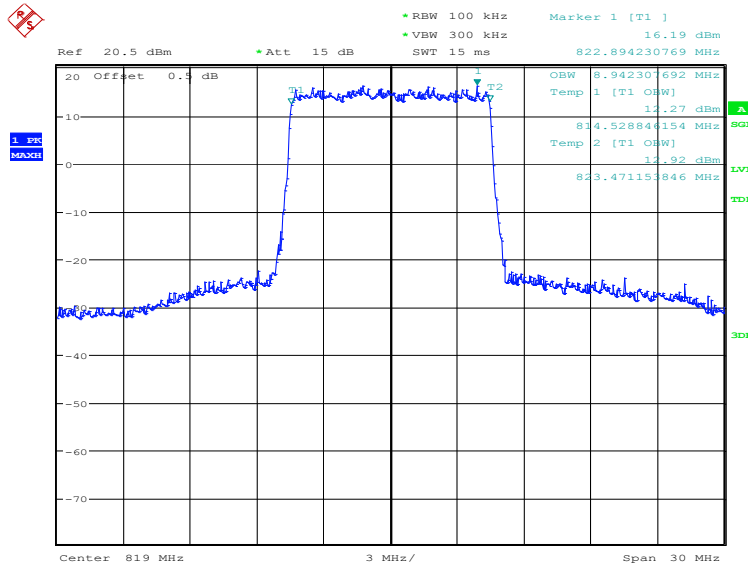


Date: 16.OCT.2023 15:12:23

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

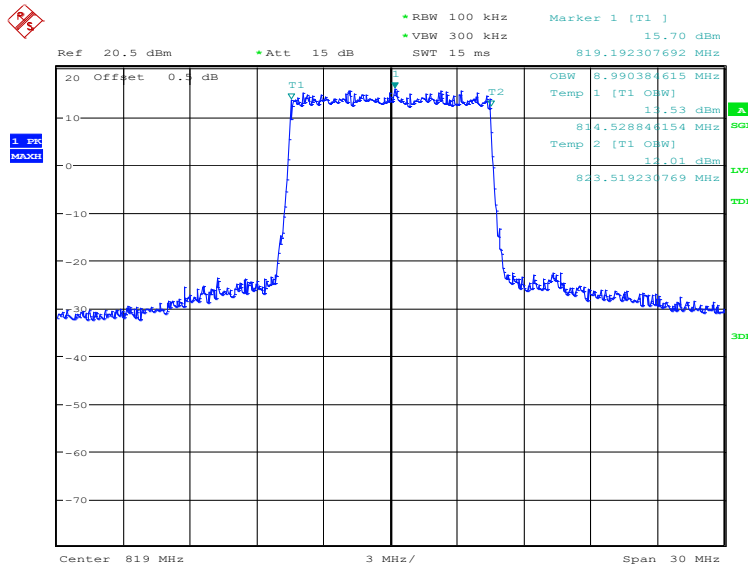
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 16.OCT.2023 15:13:05

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

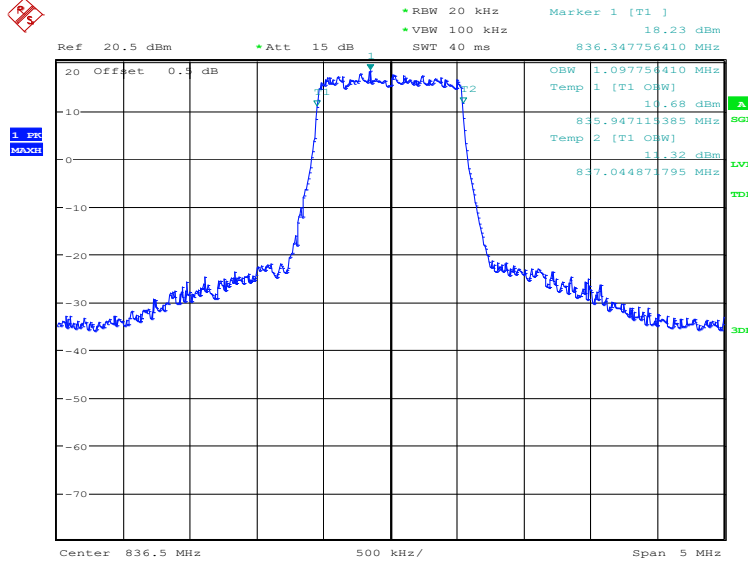


Date: 16.OCT.2023 15:13:45

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

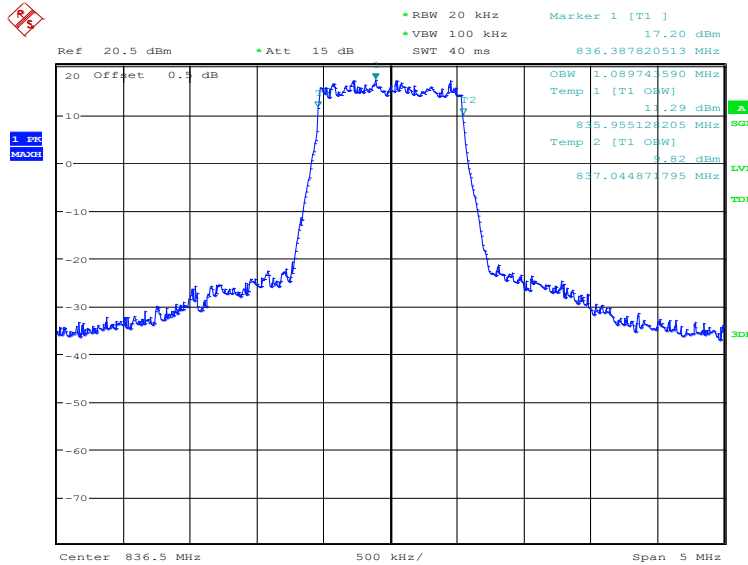
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1097.76	1089.74

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



Date: 16.OCT.2023 15:01:25

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

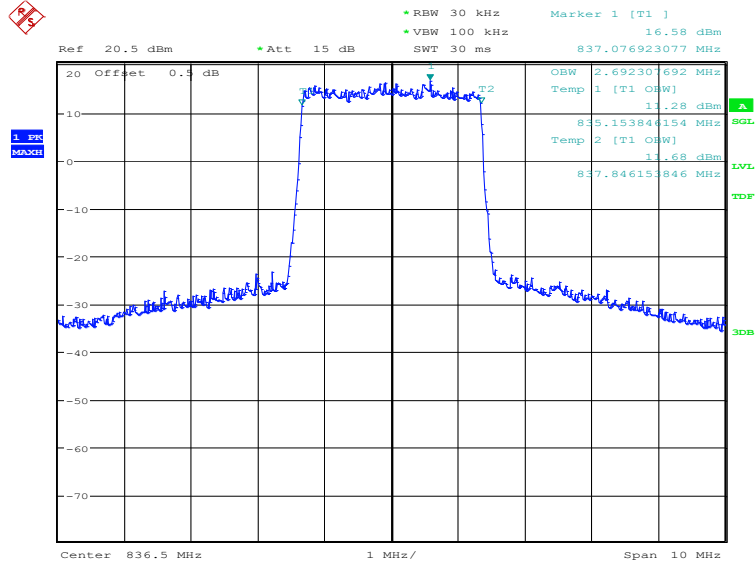


Date: 16.OCT.2023 15:02:05

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

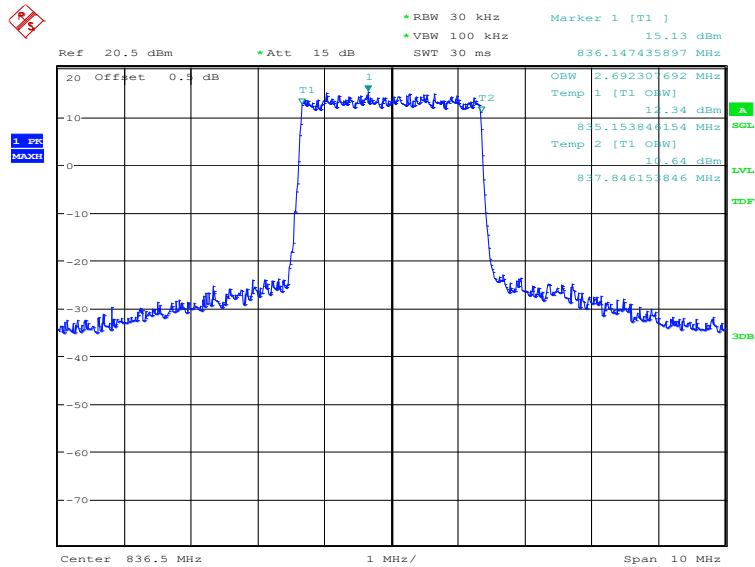
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 16.OCT.2023 15:02:47

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

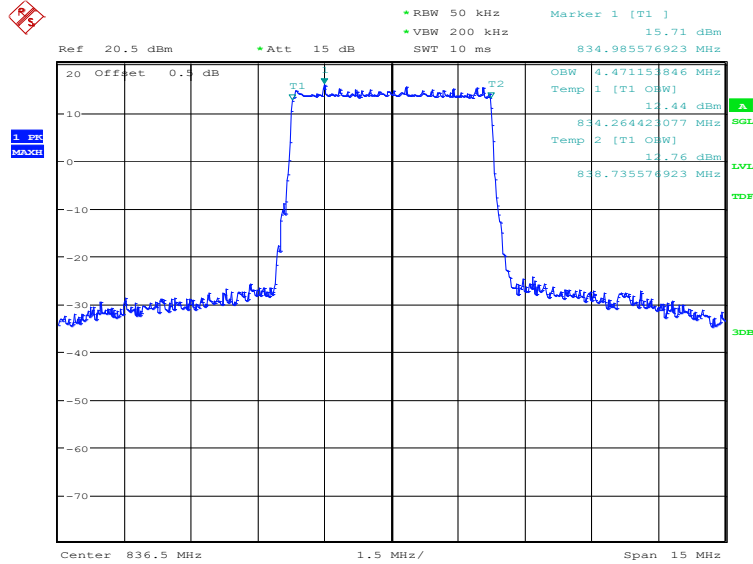


Date: 16.OCT.2023 15:03:27

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

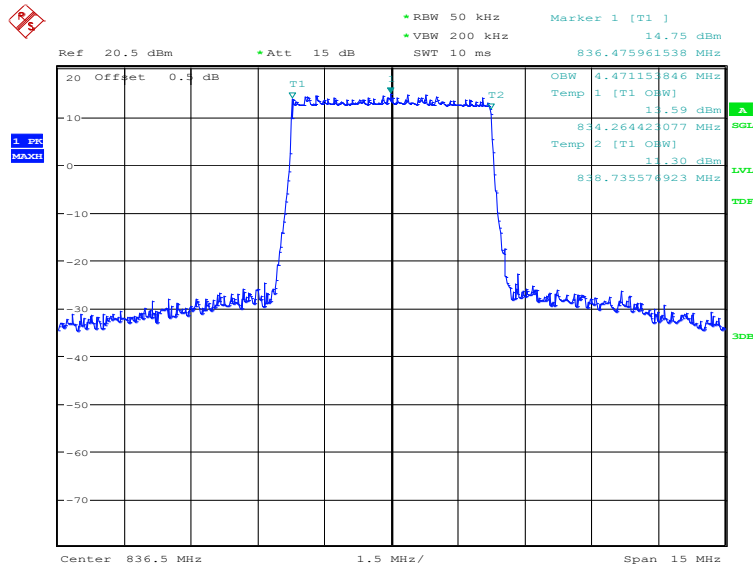
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4471.15	4471.15

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



Date: 16.OCT.2023 15:04:09

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

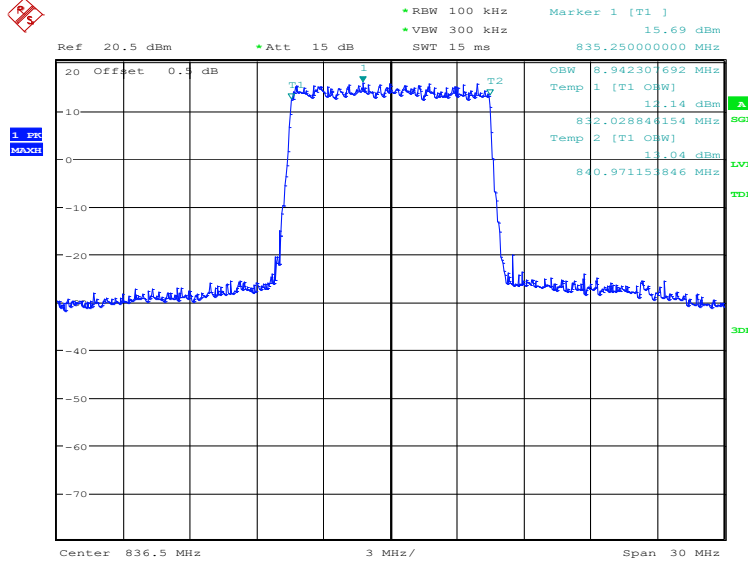


Date: 16.OCT.2023 15:04:50

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

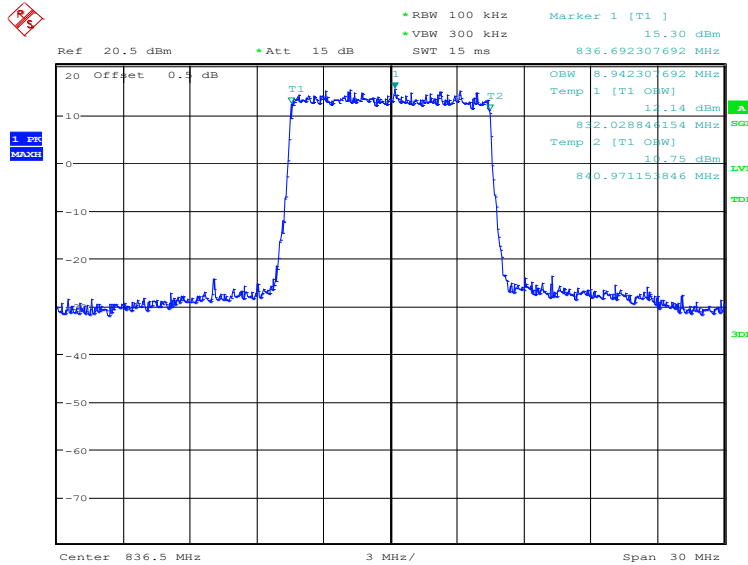
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 16.OCT.2023 15:05:32

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

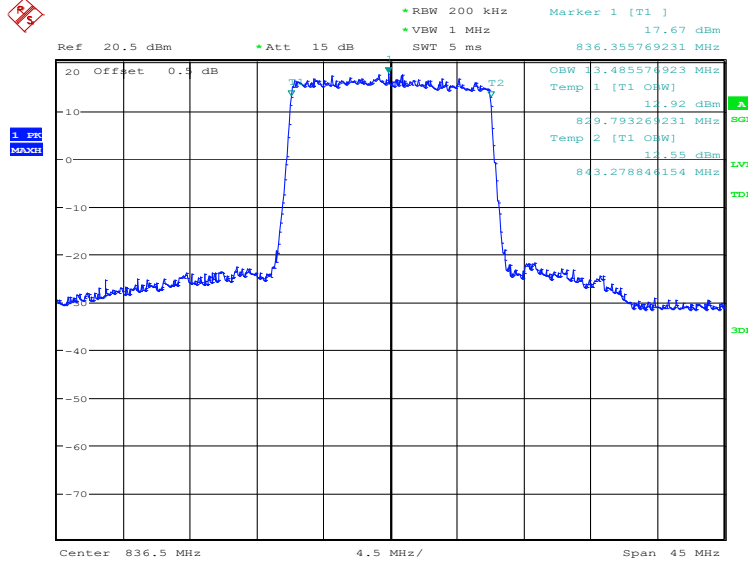


Date: 16.OCT.2023 15:06:12

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

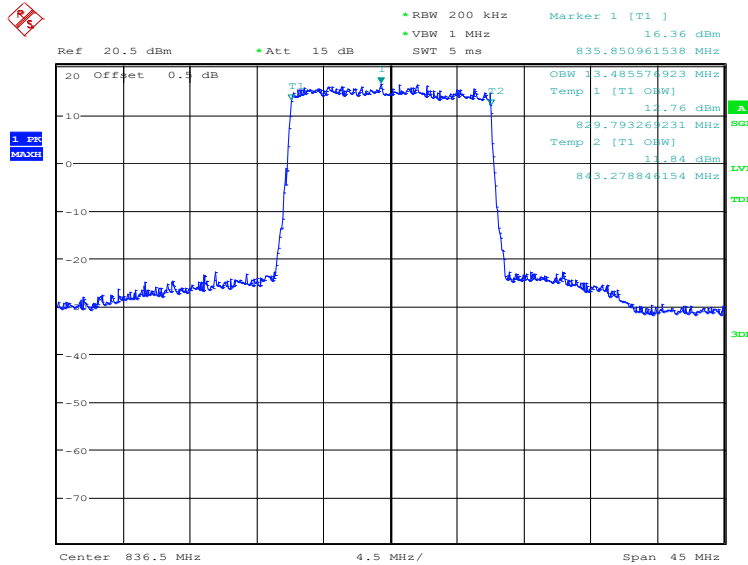
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

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



Date: 16.OCT.2023 15:06:54

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

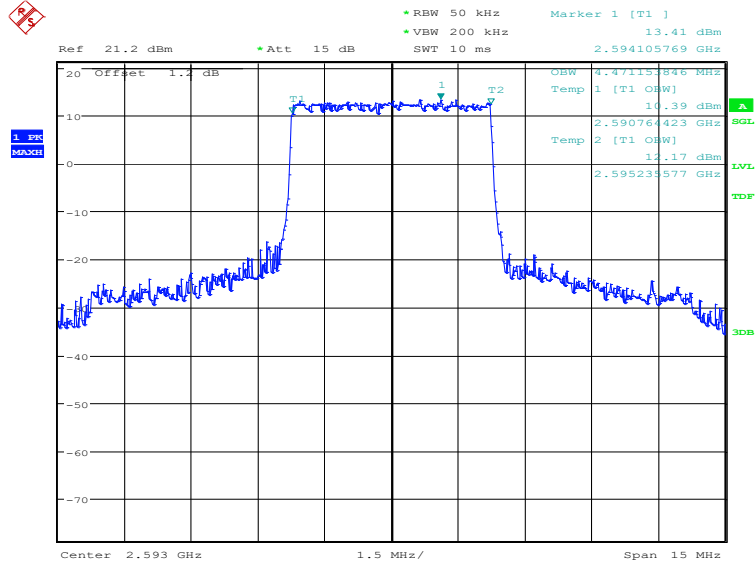


Date: 16.OCT.2023 15:07:35

LTE band 41, 5MHz (99%)

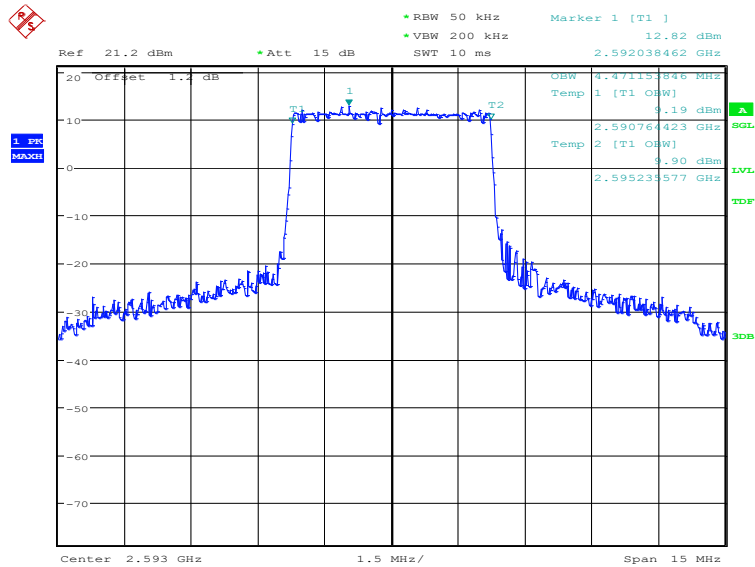
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 23.OCT.2023 09:42:28

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

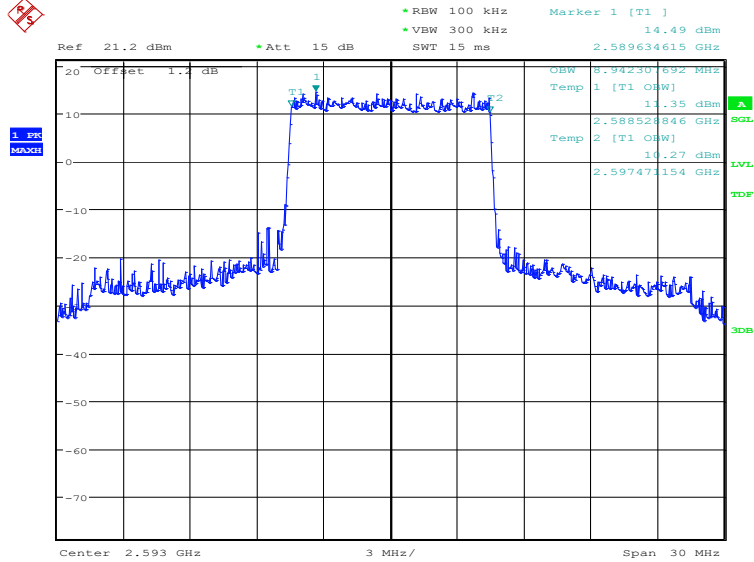


Date: 23.OCT.2023 09:43:08

LTE band 41, 10MHz (99%)

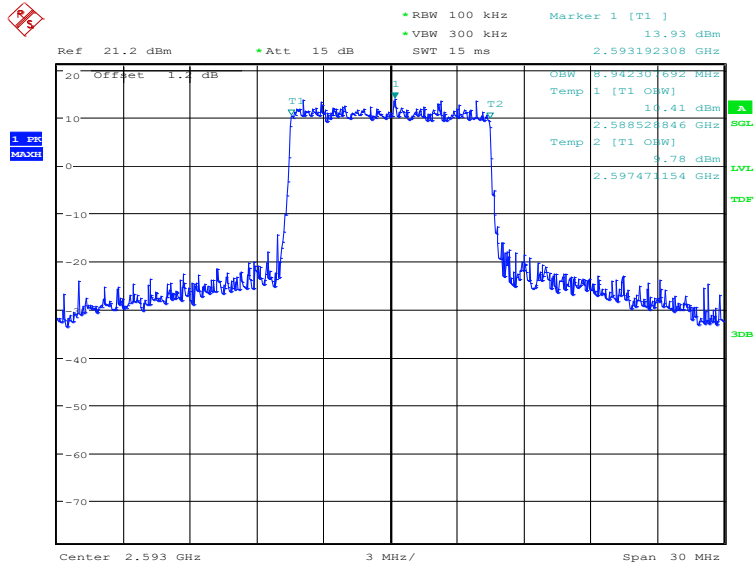
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 23.OCT.2023 09:43:49

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

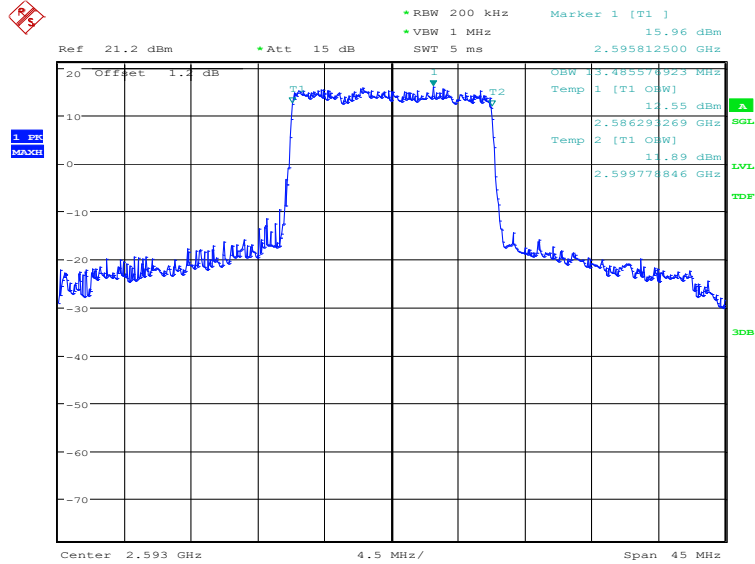


Date: 23.OCT.2023 09:44:30

LTE band 41, 15MHz (99%)

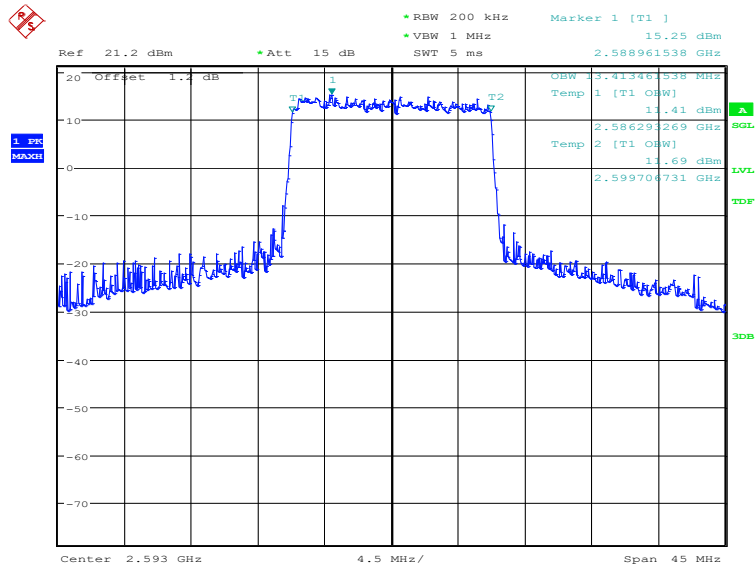
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13413.46

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



Date: 23.OCT.2023 09:45:12

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

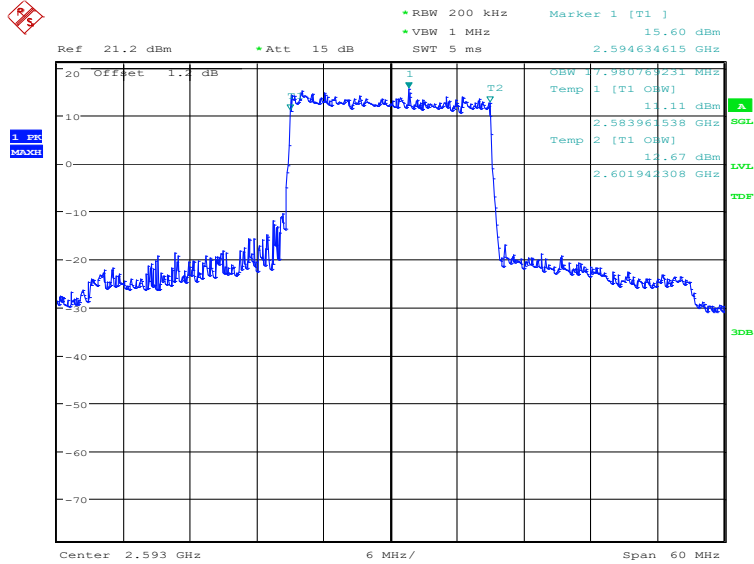


Date: 23.OCT.2023 09:45:52

LTE band 41, 20MHz (99%)

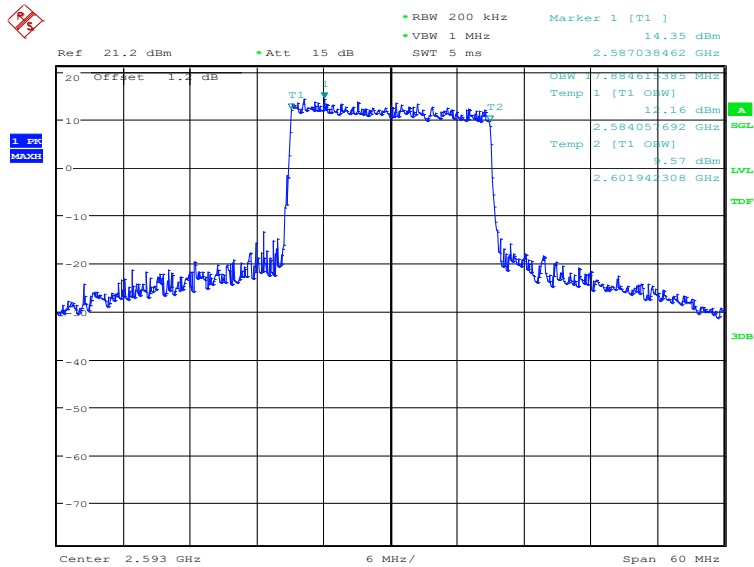
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 23.OCT.2023 09:46:34

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

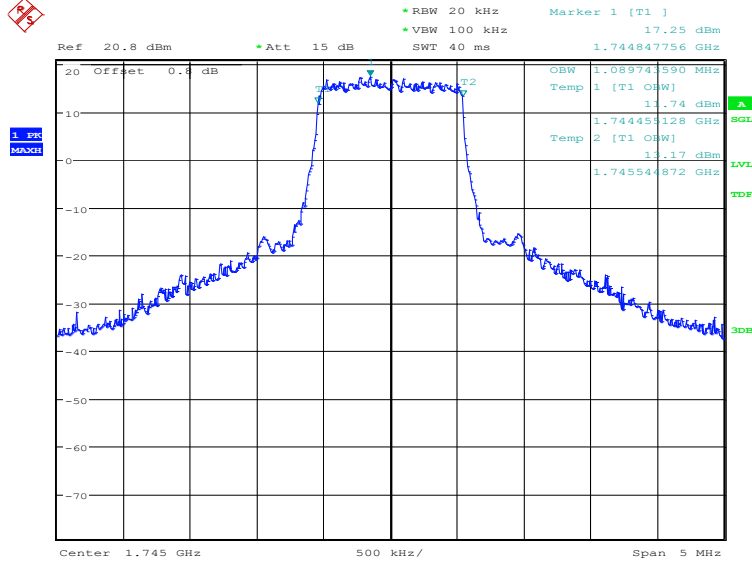


Date: 23.OCT.2023 09:47:14

LTE band 66, 1.4MHz (99%)

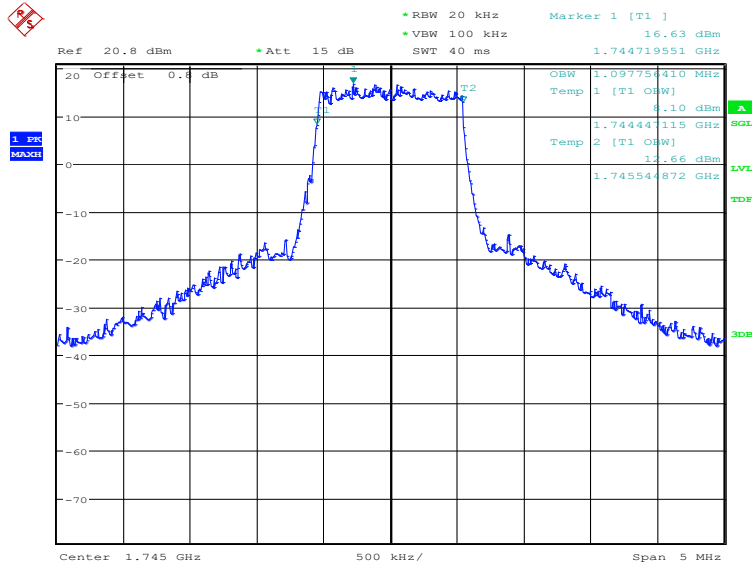
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 16.OCT.2023 15:14:29

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

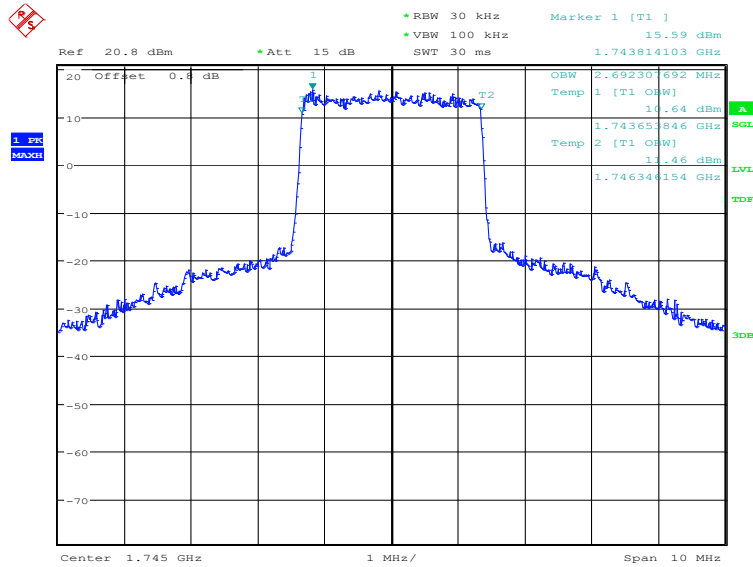


Date: 16.OCT.2023 15:15:09

LTE band 66, 3MHz (99%)

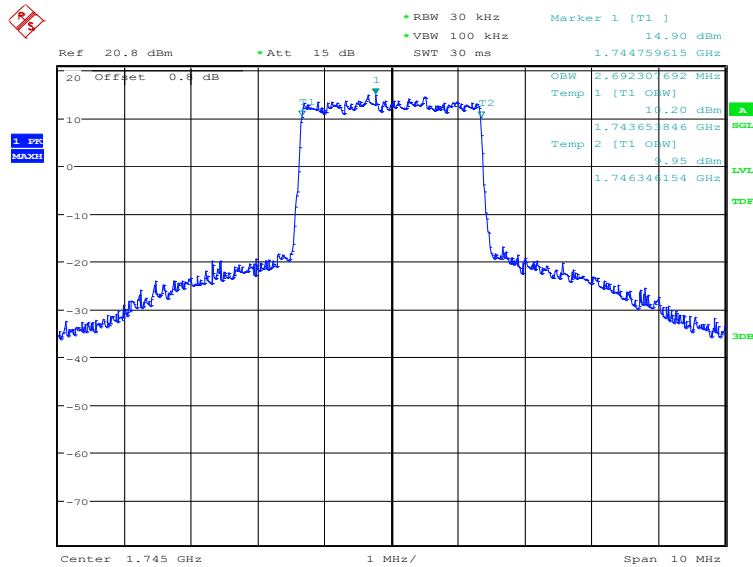
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 16.OCT.2023 15:15:51

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

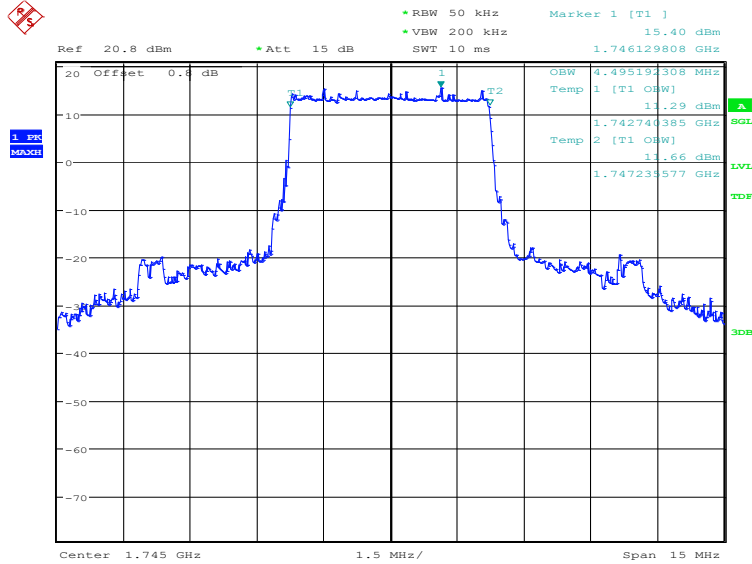


Date: 16.OCT.2023 15:16:32

LTE band 66, 5MHz (99%)

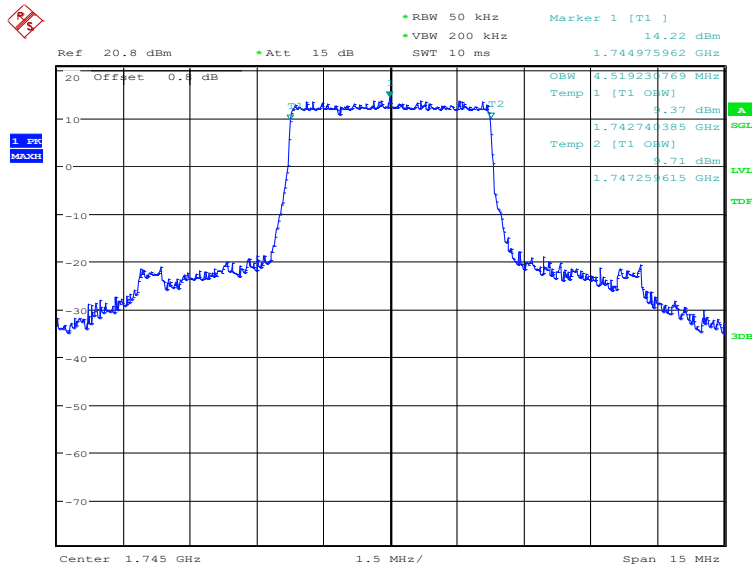
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4495.19	4519.23

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



Date: 16.OCT.2023 15:17:14

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

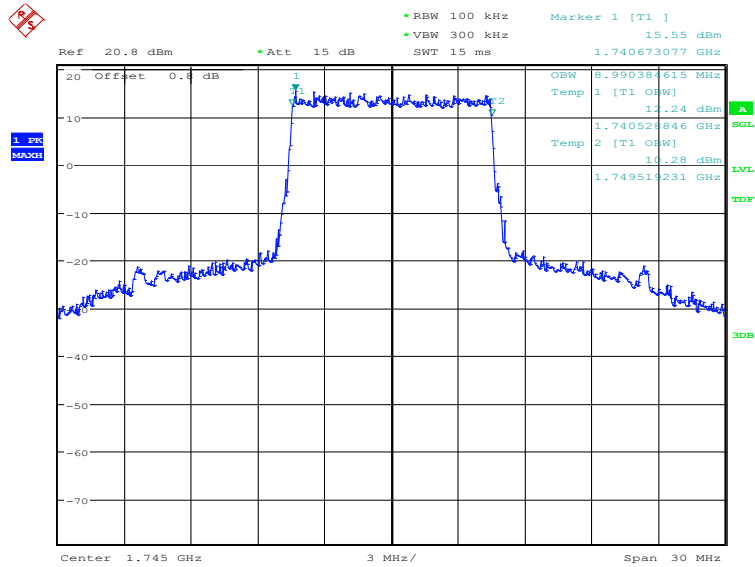


Date: 16.OCT.2023 15:17:54

LTE band 66, 10MHz (99%)

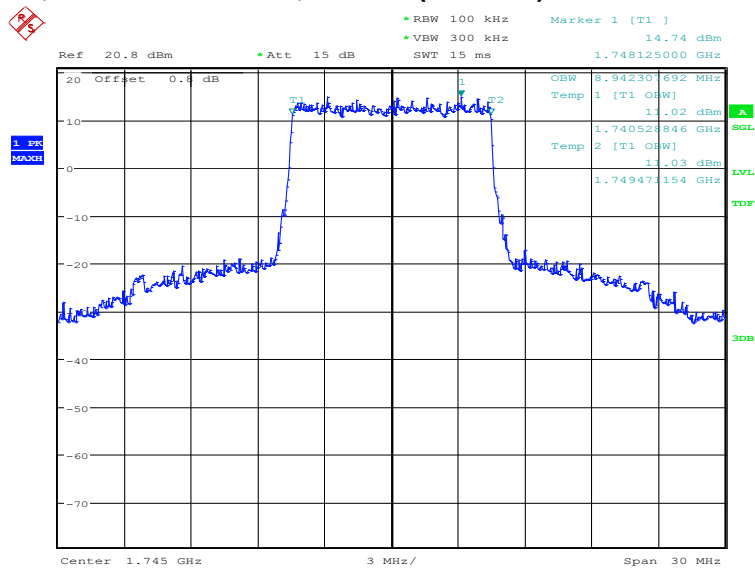
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8990.38	8942.31

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



Date: 16.OCT.2023 15:18:36

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

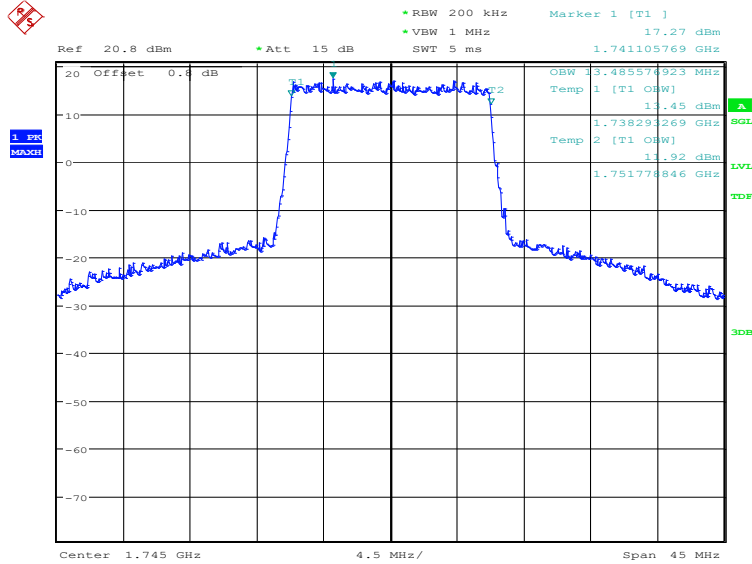


Date: 16.OCT.2023 15:19:17

LTE band 66, 15MHz (99%)

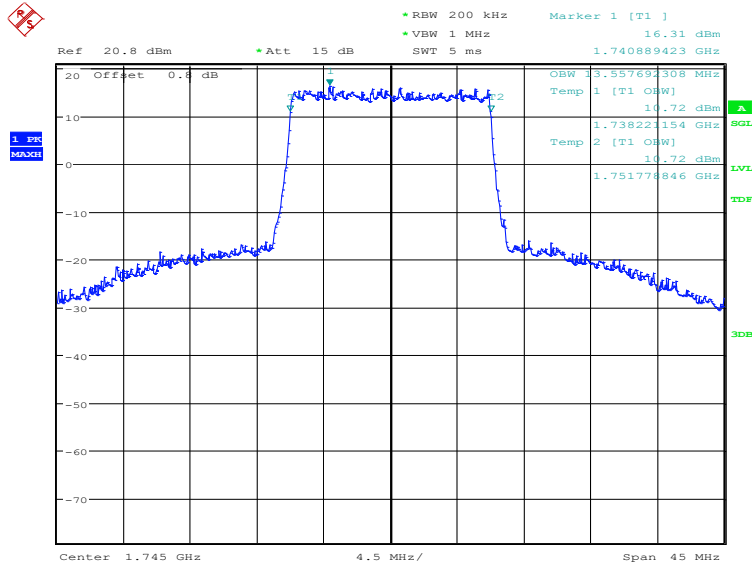
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13557.69

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



Date: 16.OCT.2023 15:19:59

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

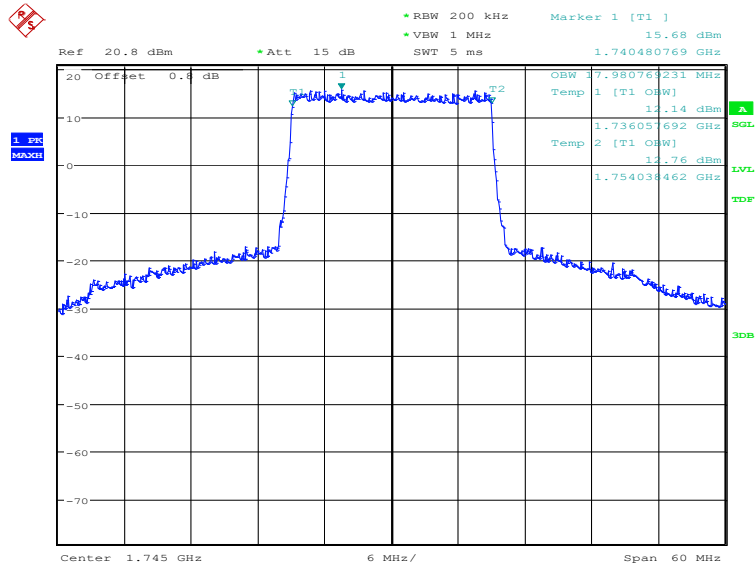


Date: 16.OCT.2023 15:20:40

LTE band 66, 20MHz (99%)

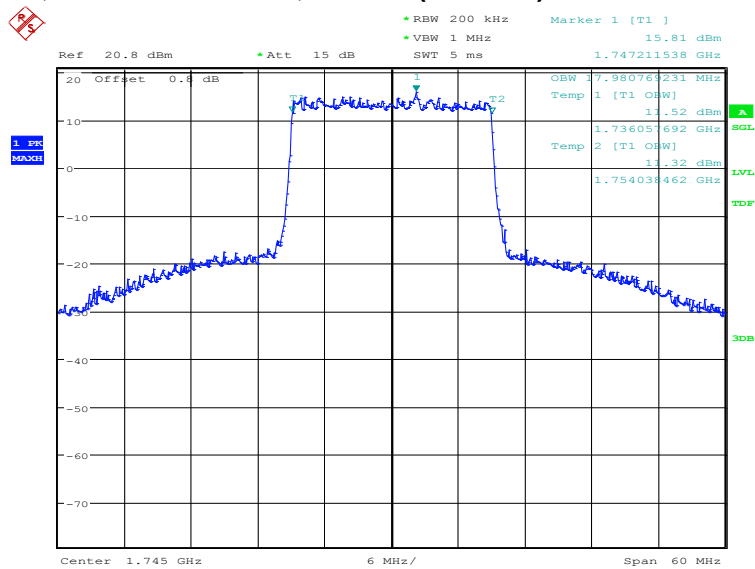
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 16.OCT.2023 15:21:22

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

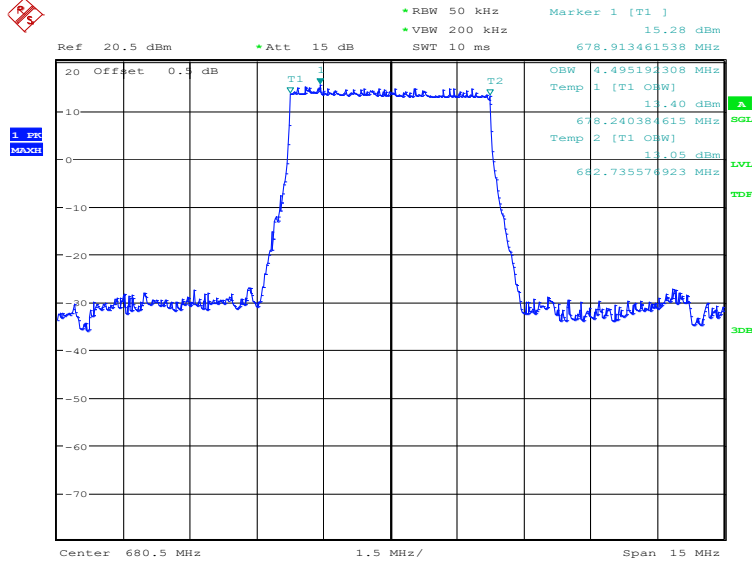


Date: 16.OCT.2023 15:22:03

LTE band 71, 5MHz (99%)

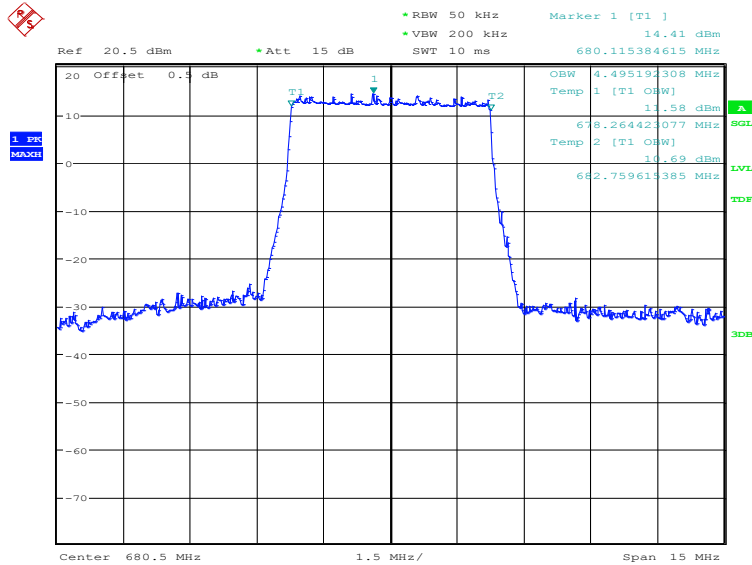
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 16.OCT.2023 14:38:20

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

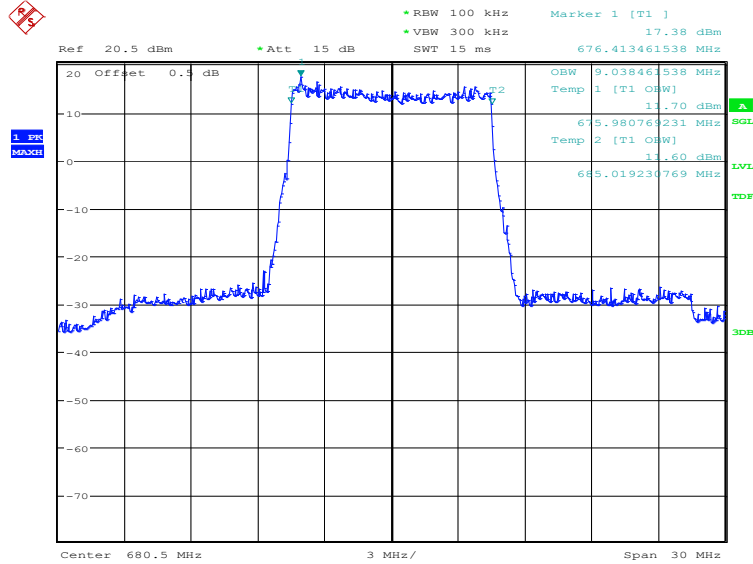


Date: 16.OCT.2023 14:39:00

LTE band 71, 10MHz (99%)

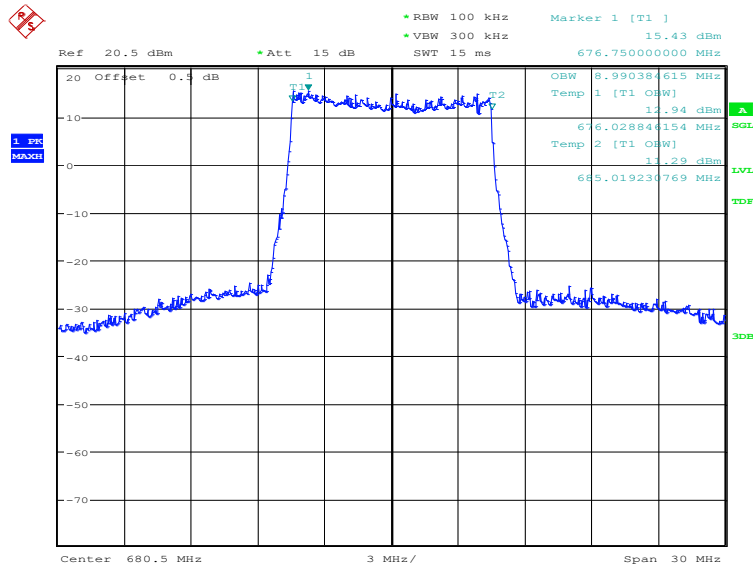
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	9038.46	8990.38

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



Date: 16.OCT.2023 14:39:42

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

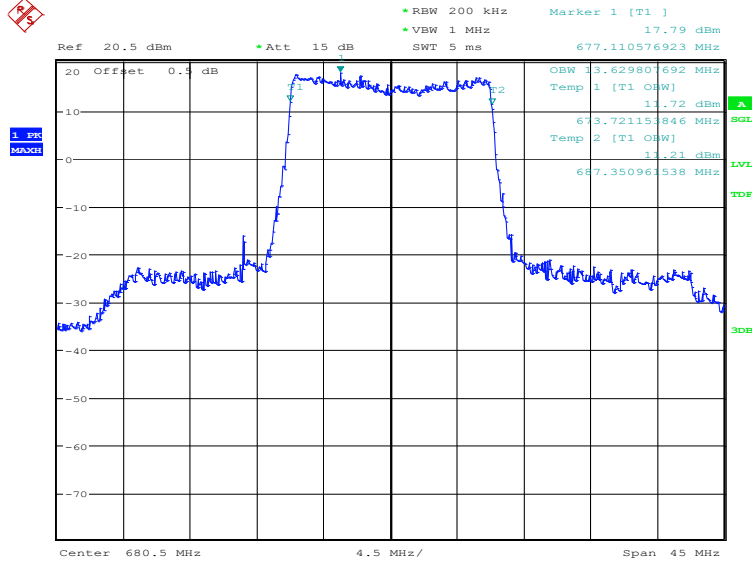


Date: 16.OCT.2023 14:40:22

LTE band 71, 15MHz (99%)

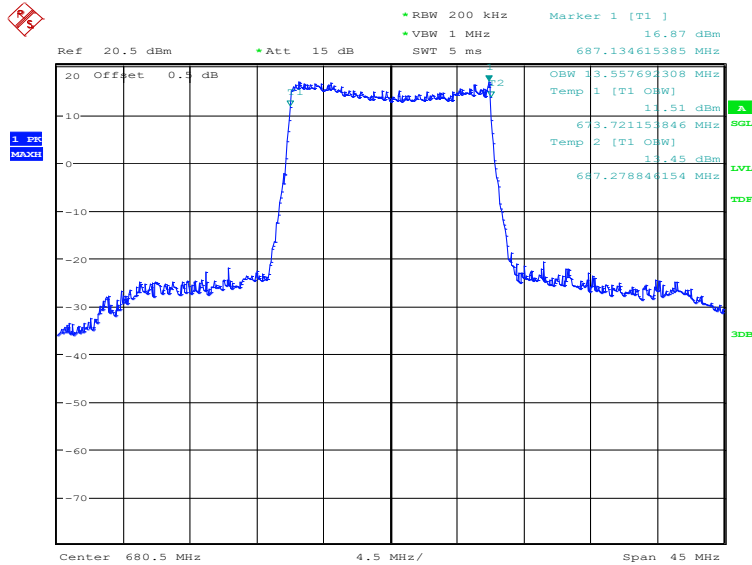
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13629.81	13557.69

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



Date: 16.OCT.2023 14:41:04

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

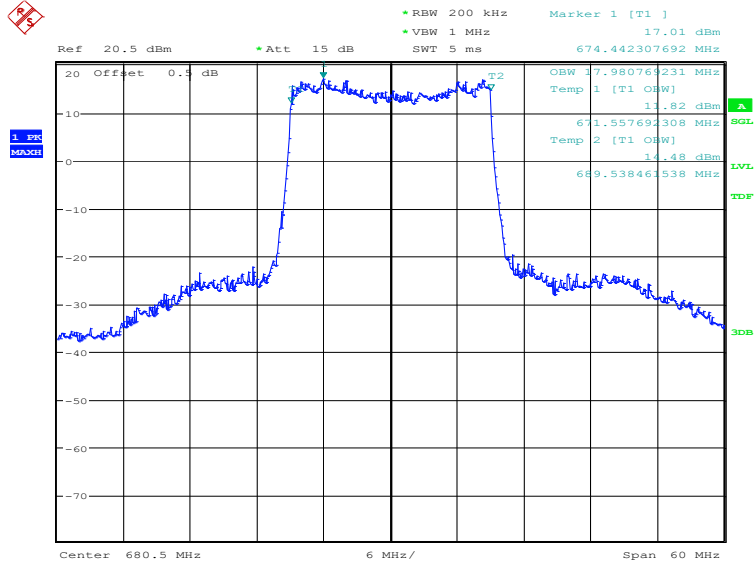


Date: 16.OCT.2023 14:41:44

LTE band 71, 20MHz (99%)

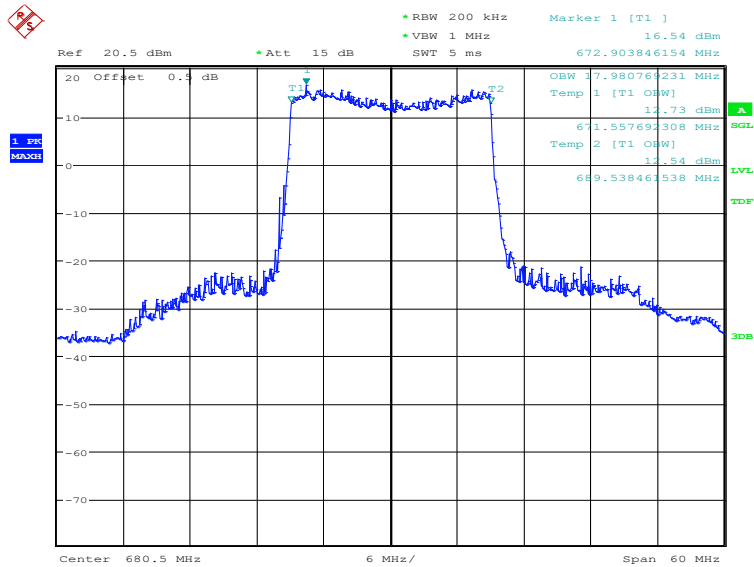
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17980.77	17980.77

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



Date: 16.OCT.2023 14:42:26

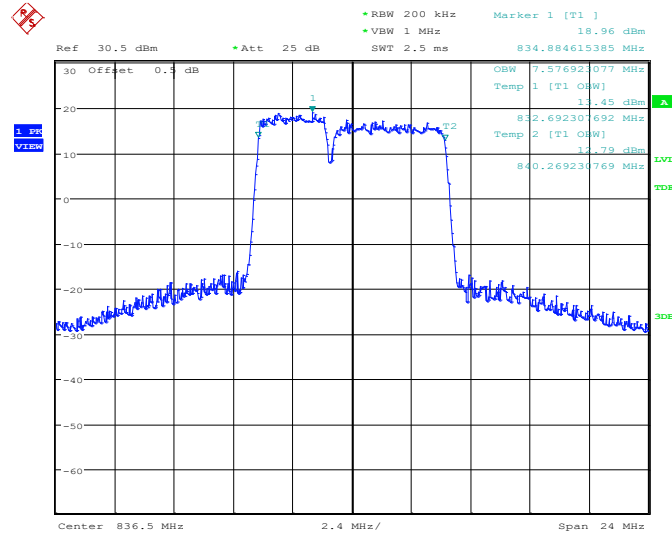
LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)



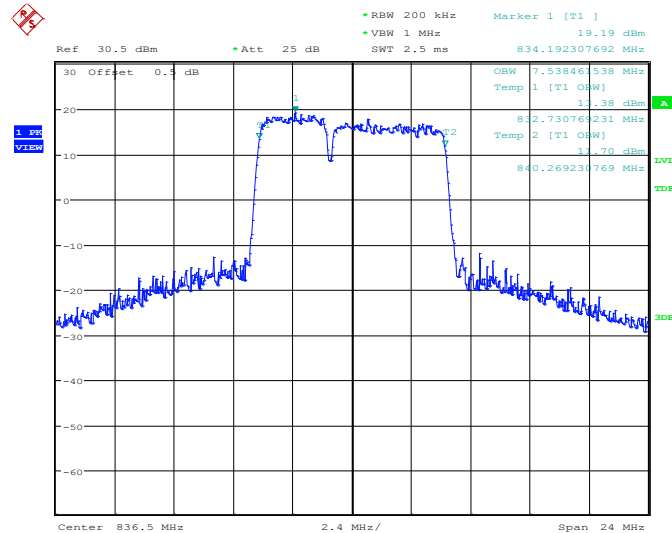
Date: 16.OCT.2023 14:43:06

LTE CA band 5B, 3MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	7.577	7.538

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


Date: 25.OCT.2023 12:05:20

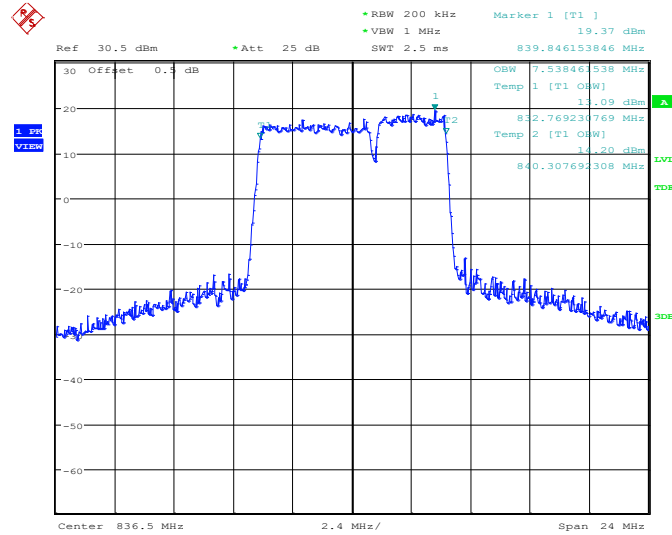
LTE CA band 5B , 3MHz+5MHz Bandwidth,16QAM (99% BW)


Date: 25.OCT.2023 12:05:43

LTE CA band 5B, 5MHz+3MHz(99%)

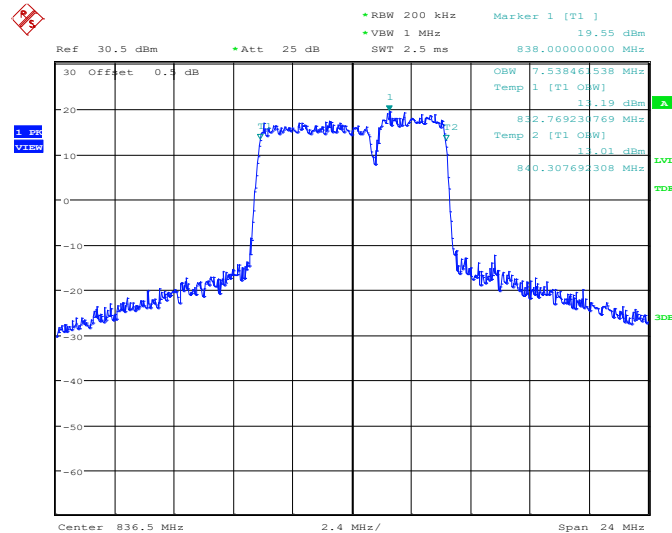
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	7.538	7.538

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



Date: 25.OCT.2023 12:06:37

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

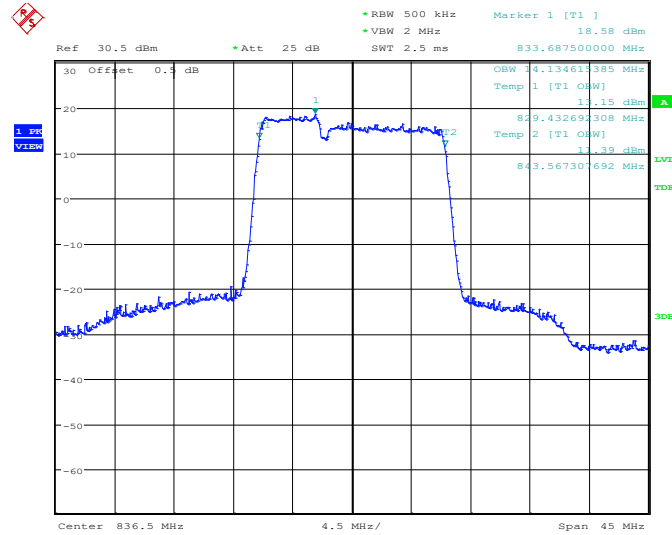


Date: 25.OCT.2023 12:07:00

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

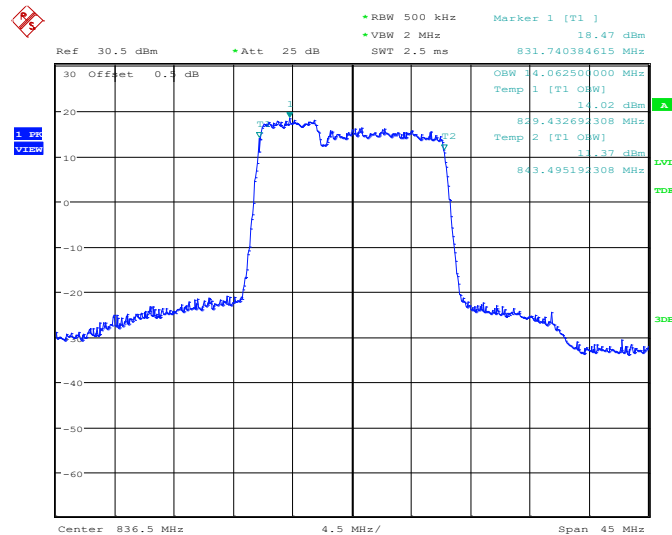
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	14.135	14.062

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



Date: 25.OCT.2023 12:08:48

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

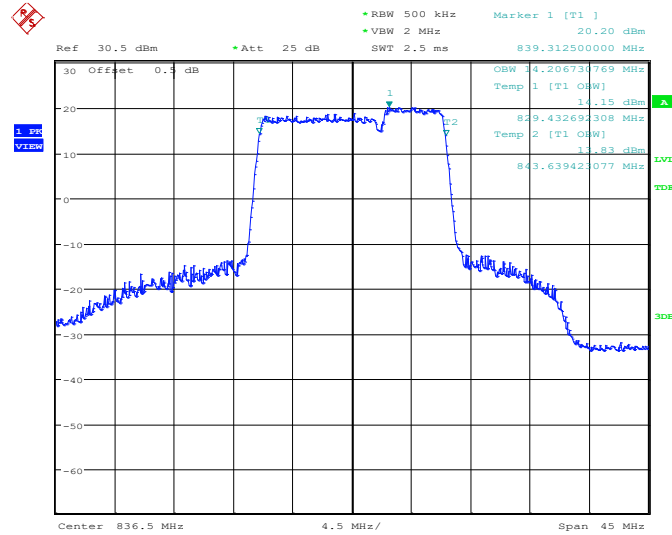


Date: 25.OCT.2023 12:09:12

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

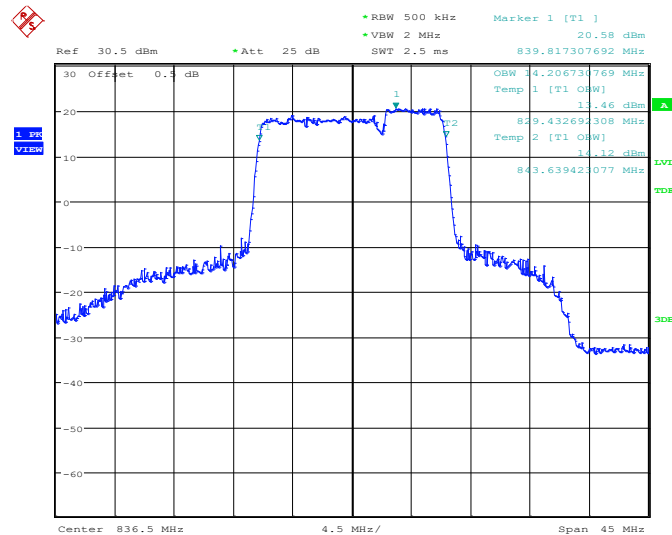
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	14.207	14.207

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



Date: 25.OCT.2023 12:10:06

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

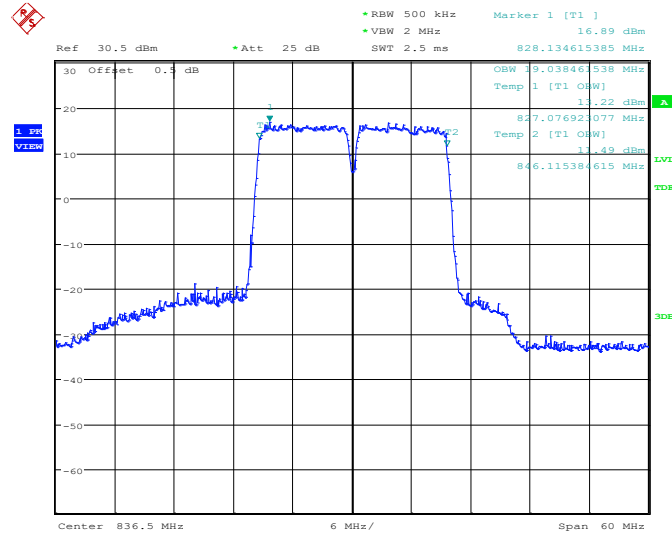


Date: 25.OCT.2023 12:10:29

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

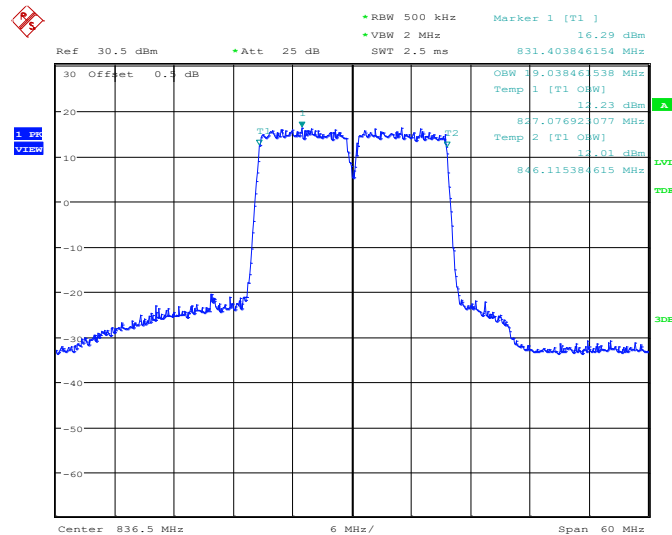
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
836.5	19.038	19.038

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



Date: 25.OCT.2023 12:11:21

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

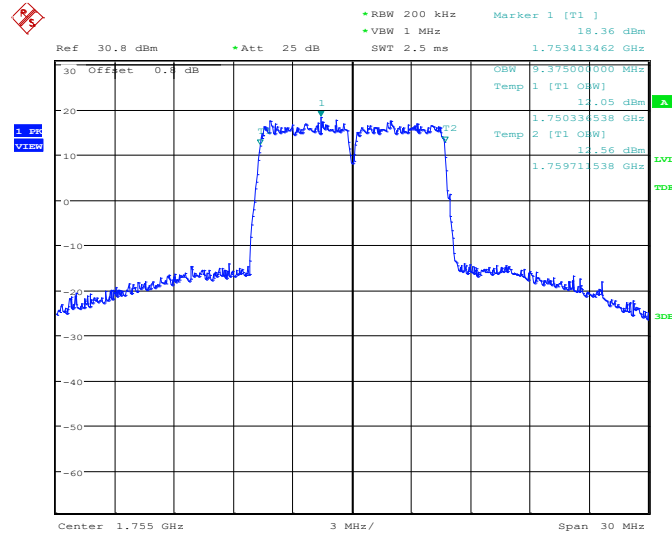


Date: 25.OCT.2023 12:11:45

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

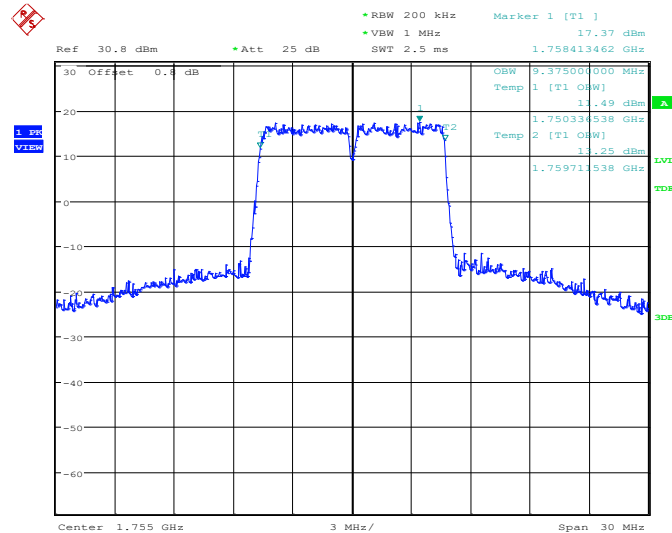
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	9.375	9.375

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



Date: 25.OCT.2023 12:12:41

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

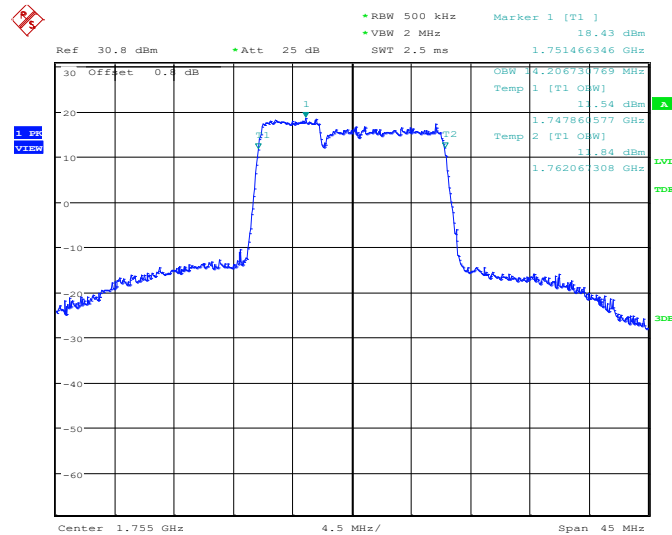


Date: 25.OCT.2023 12:13:05

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

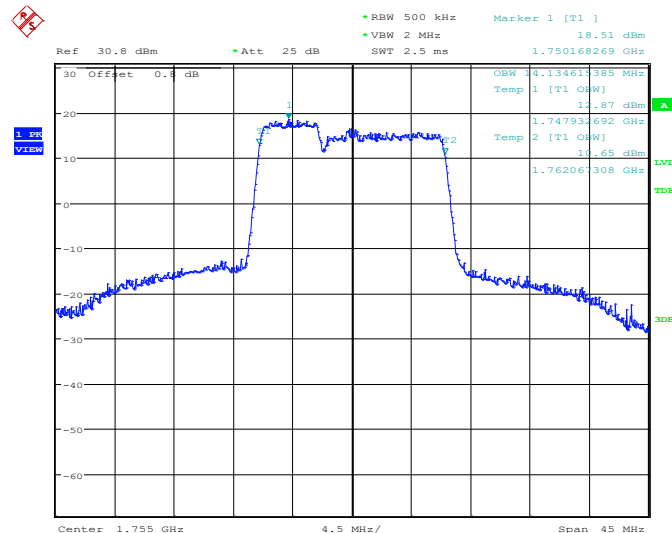
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.207	14.135

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



Date: 25.OCT.2023 12:13:57

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

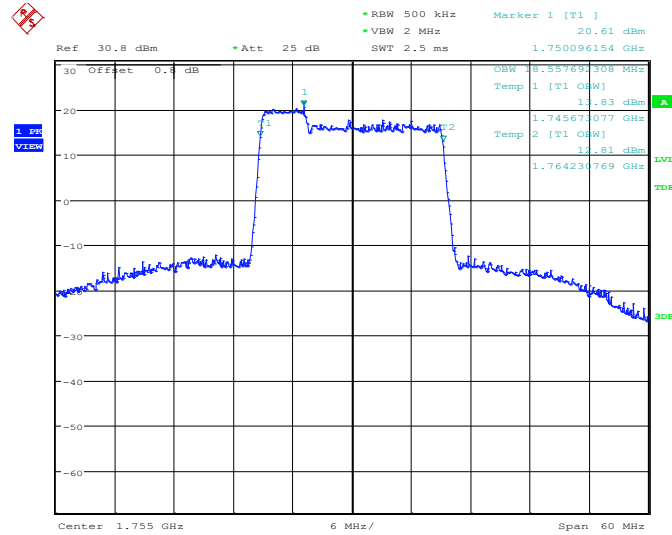


Date: 25.OCT.2023 12:14:20

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

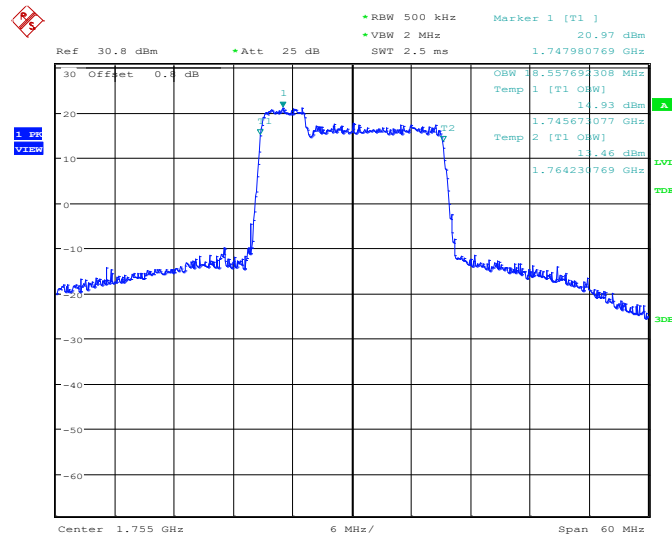
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.558	18.558

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



Date: 25.OCT.2023 12:15:12

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

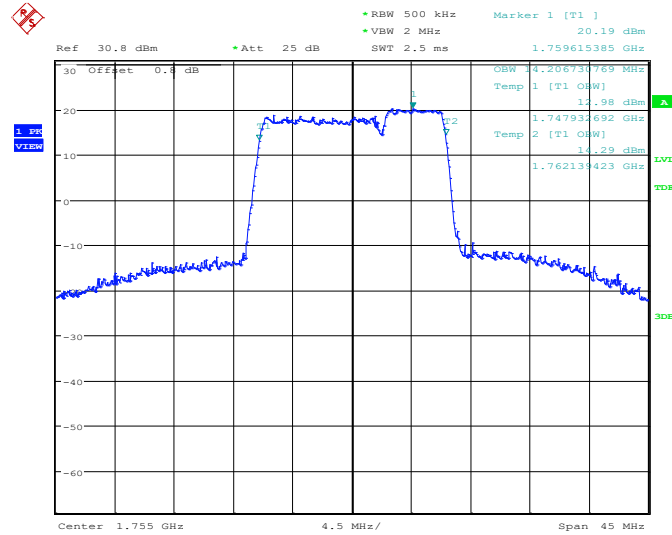


Date: 25.OCT.2023 12:15:36

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

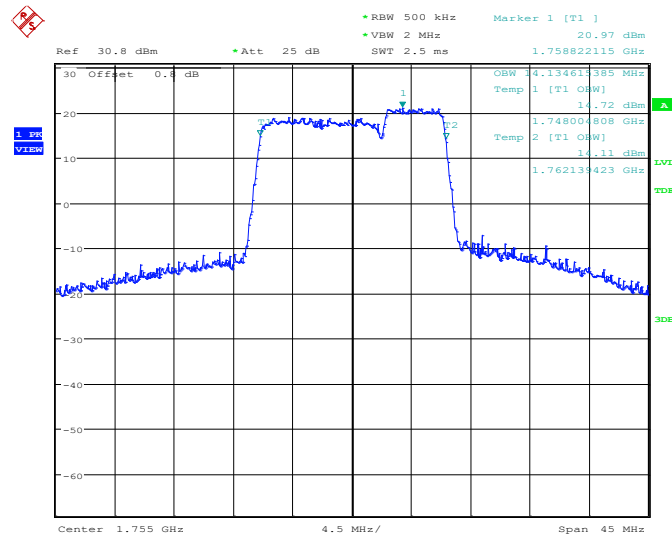
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.207	14.135

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



Date: 25.OCT.2023 12:16:30

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

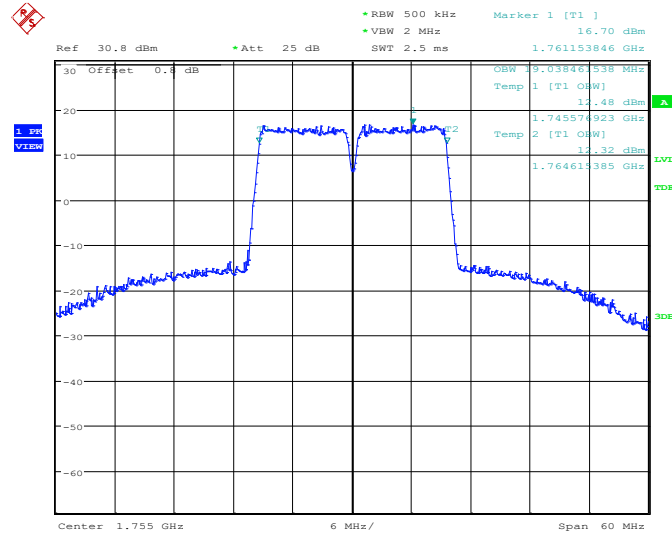


Date: 25.OCT.2023 12:16:54

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

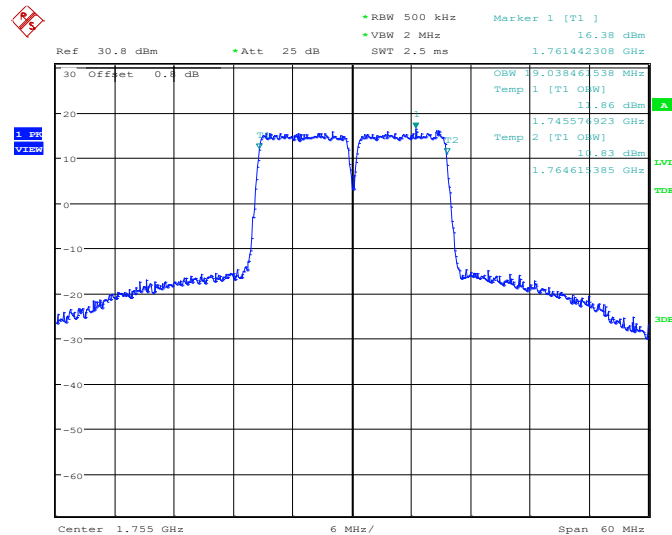
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	19.038	19.038

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



Date: 25.OCT.2023 12:17:46

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

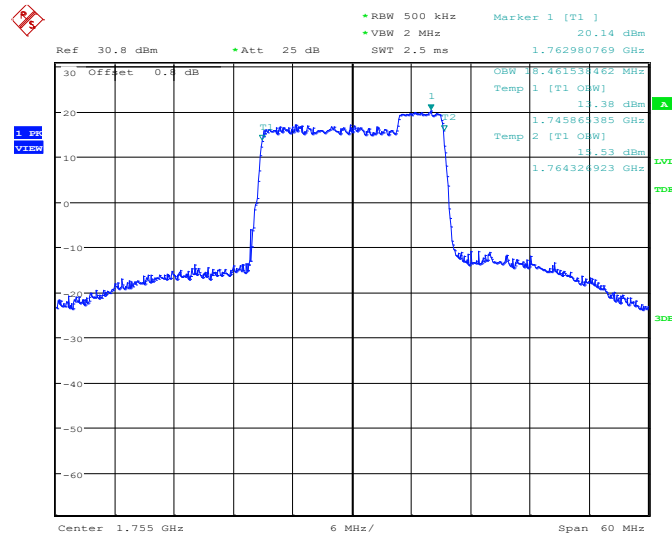


Date: 25.OCT.2023 12:18:09

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

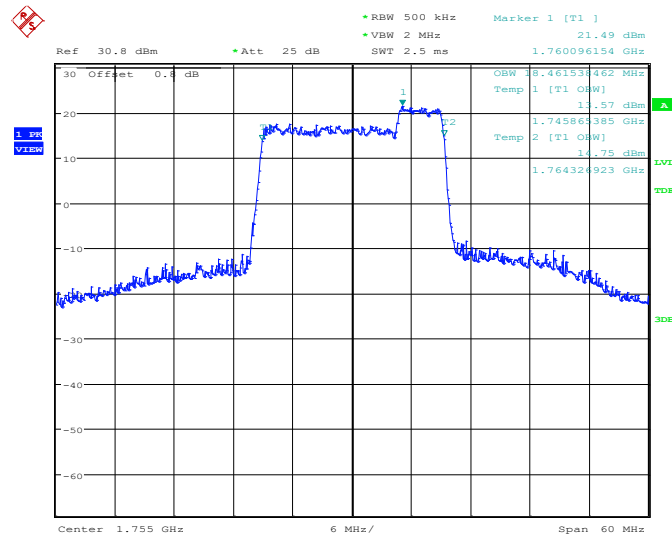
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.462	18.462

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



Date: 25.OCT.2023 12:19:04

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

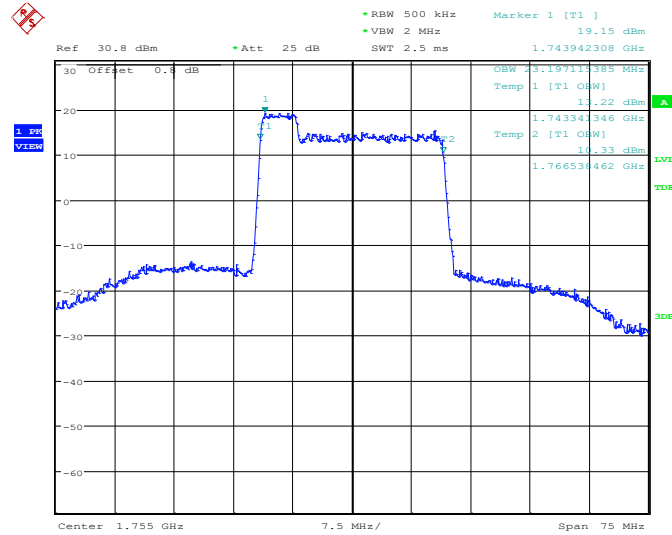


Date: 25.OCT.2023 12:19:27

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

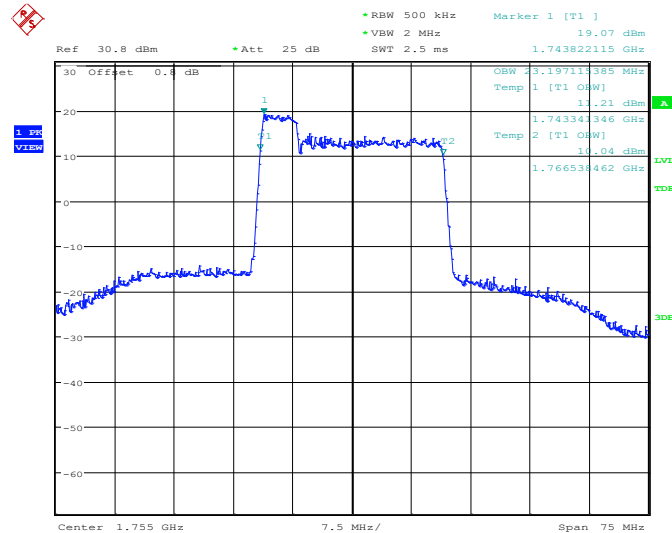
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.197	23.197

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



Date: 25.OCT.2023 12:20:21

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

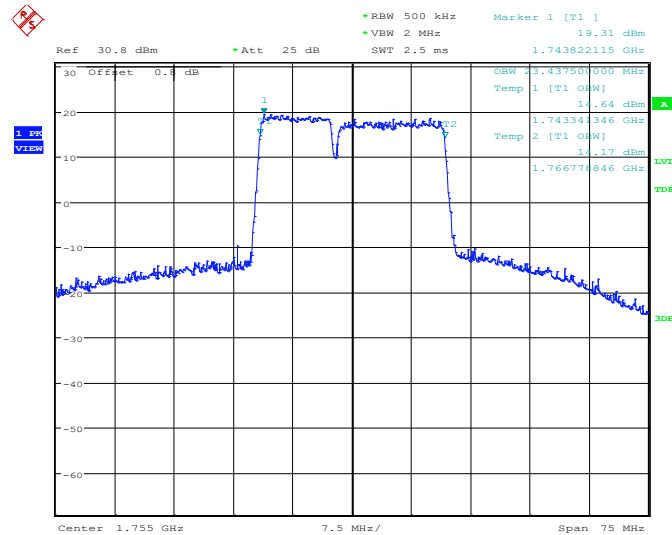


Date: 25.OCT.2023 12:20:48

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

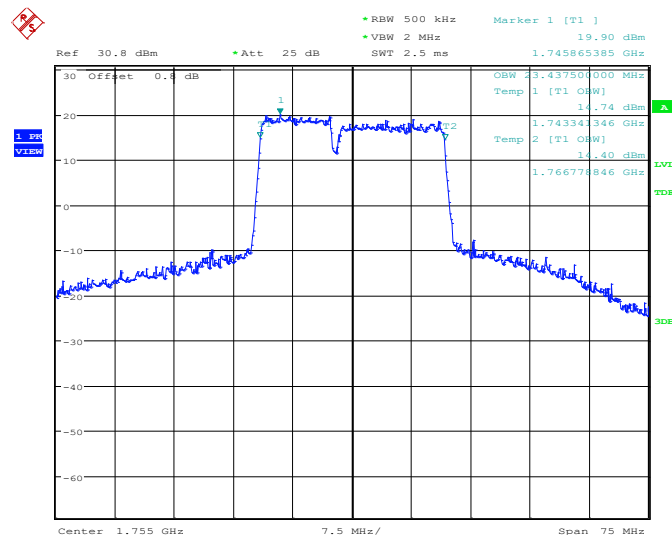
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.438	23.438

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



Date: 25.OCT.2023 12:21:42

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

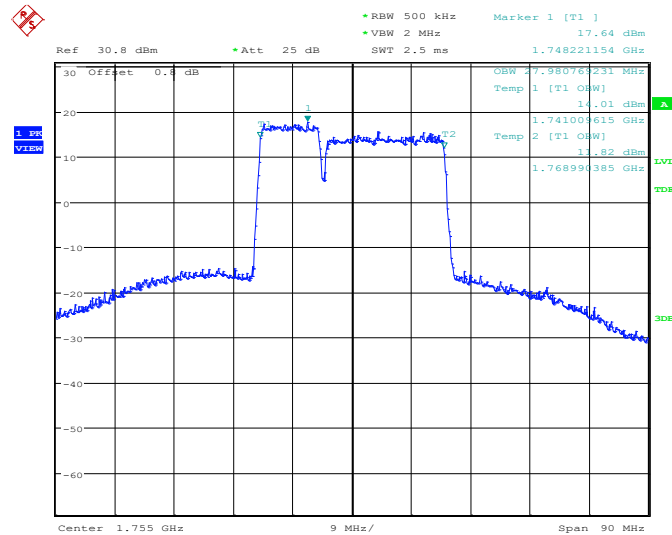


Date: 25.OCT.2023 12:22:05

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

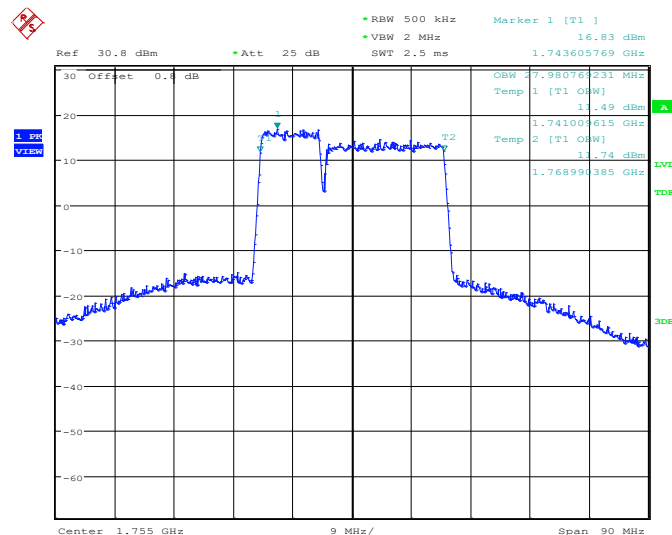
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.981	27.981

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



Date: 25.OCT.2023 12:22:57

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

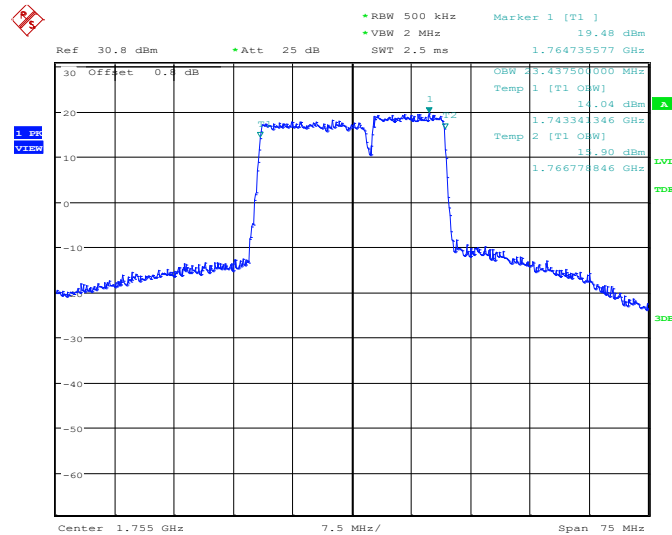


Date: 25.OCT.2023 12:23:21

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

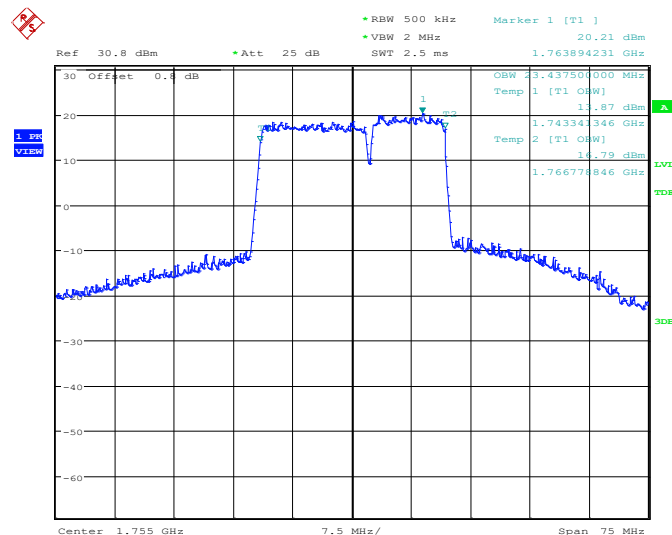
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.438	23.438

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



Date: 25.OCT.2023 12:24:15

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

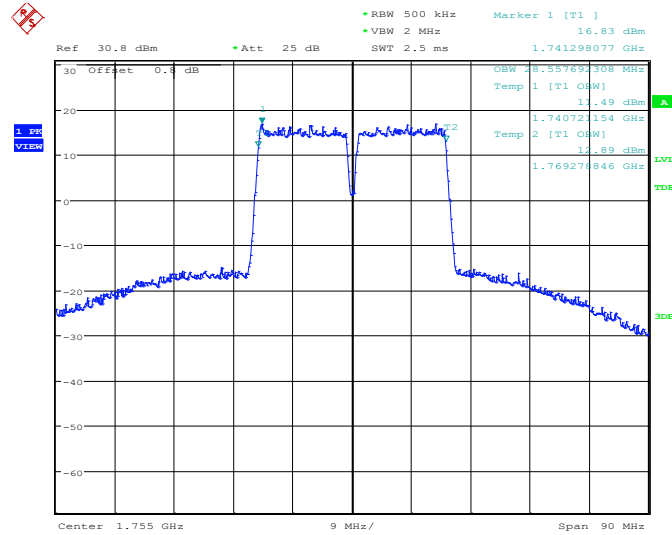


Date: 25.OCT.2023 12:24:38

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

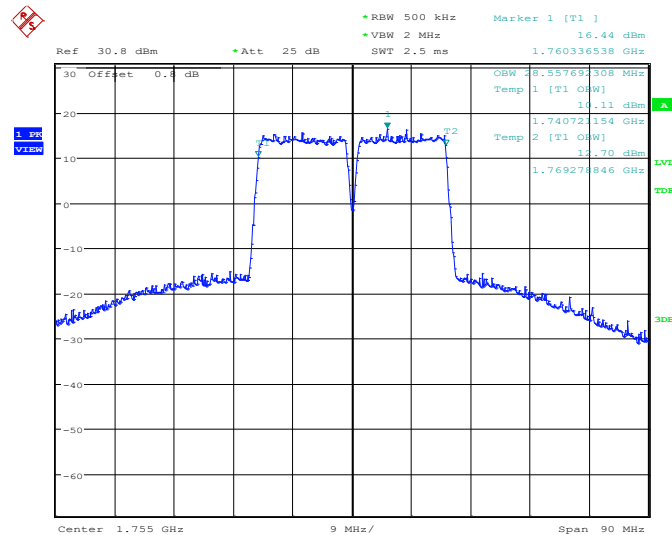
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	28.558	28.558

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



Date: 25.OCT.2023 12:25:30

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

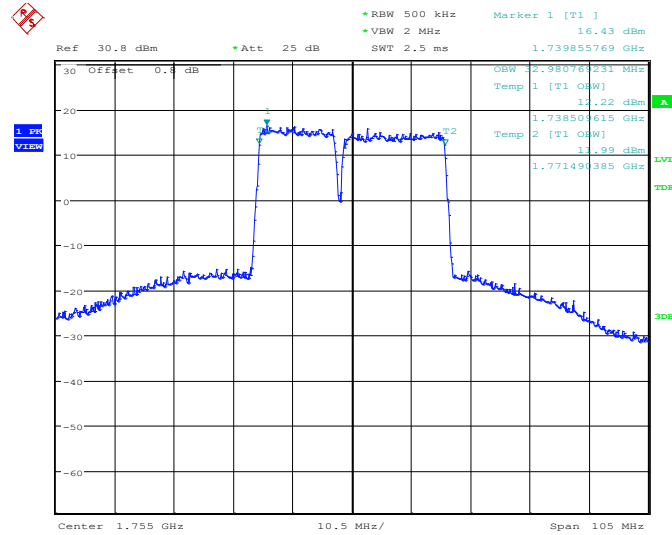


Date: 25.OCT.2023 12:25:54

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

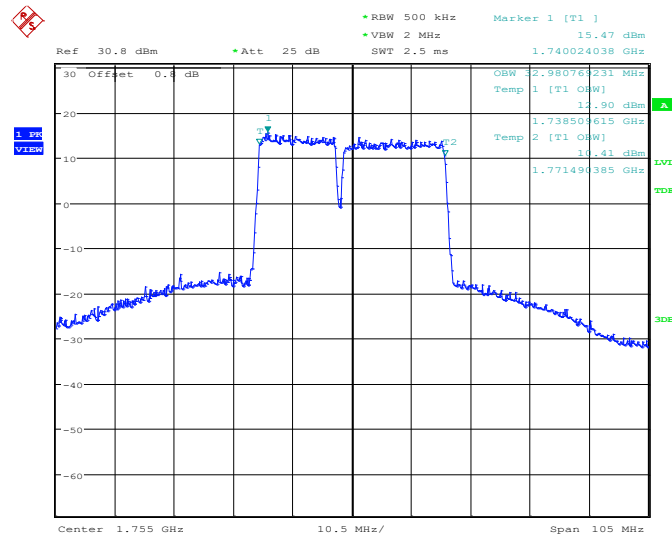
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.981	32.981

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



Date: 25.OCT.2023 12:26:46

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

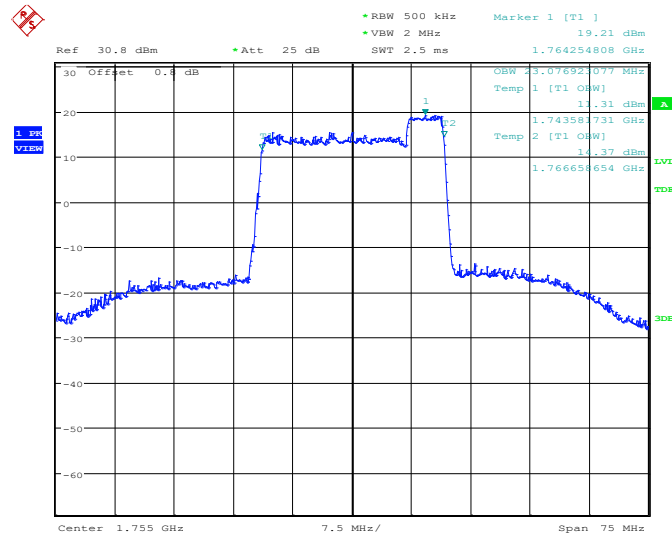


Date: 25.OCT.2023 12:27:12

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

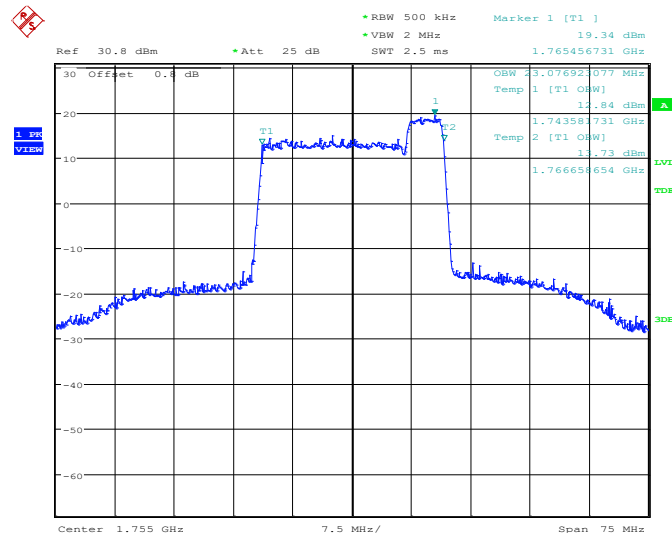
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.077	23.077

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



Date: 25.OCT.2023 12:28:06

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

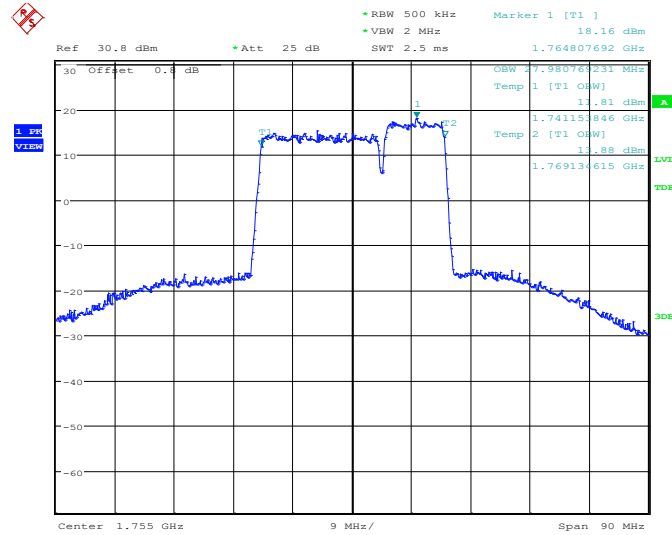


Date: 25.OCT.2023 12:28:30

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

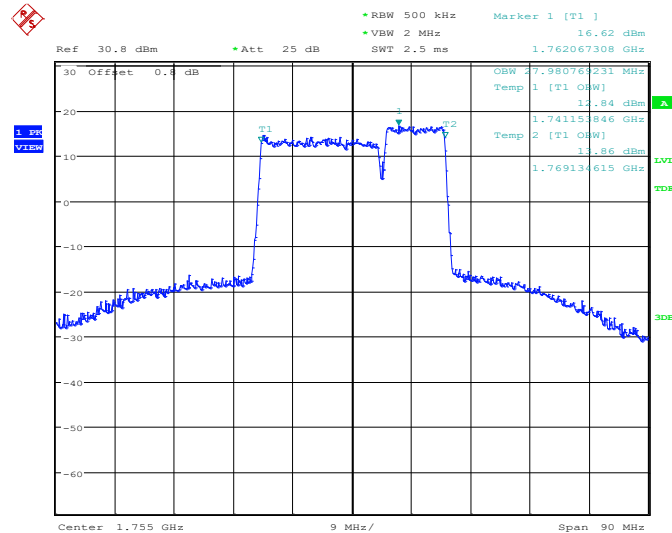
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.981	27.981

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



Date: 25.OCT.2023 12:29:22

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

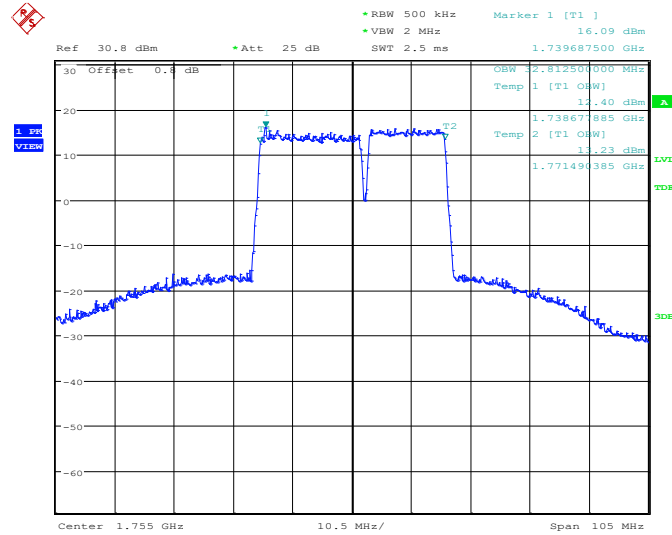


Date: 25.OCT.2023 12:29:45

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

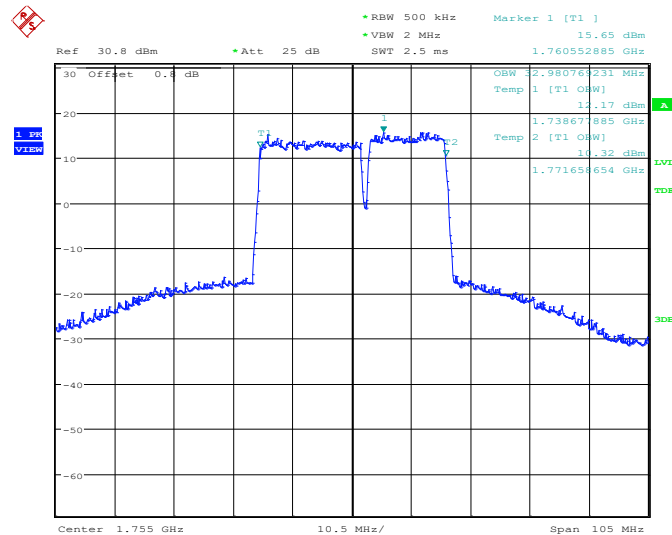
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.812	32.981

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



Date: 25.OCT.2023 12:30:38

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

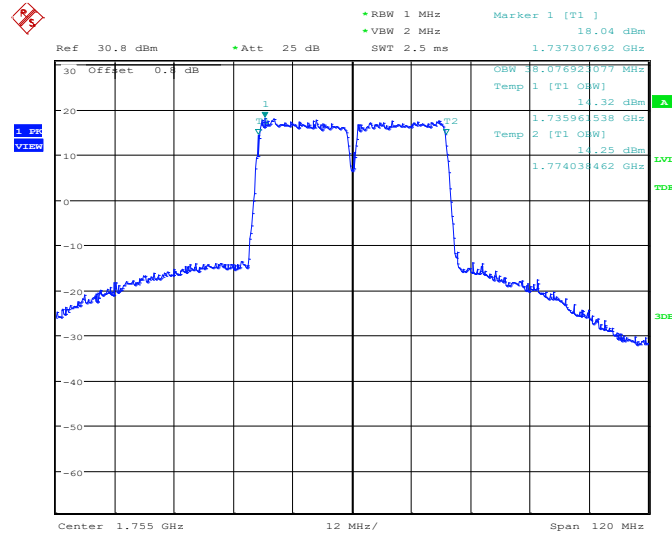


Date: 25.OCT.2023 12:31:01

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

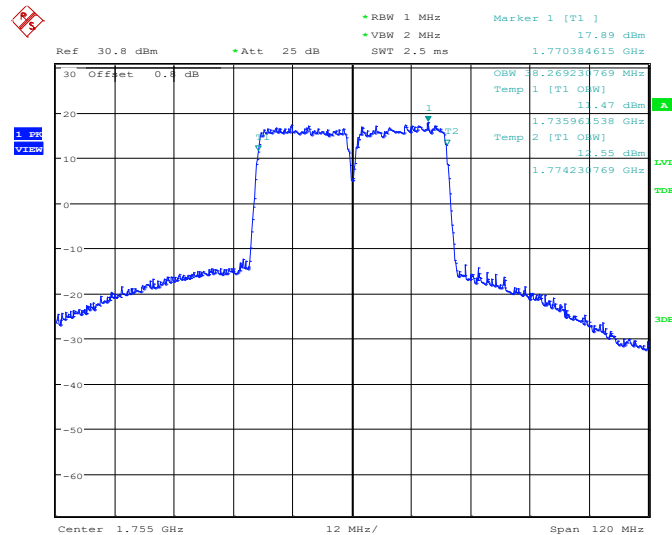
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	38.077	38.269

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



Date: 25.OCT.2023 12:32:20

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



Date: 25.OCT.2023 12:32:43

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

A.5 Emission Bandwidth

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

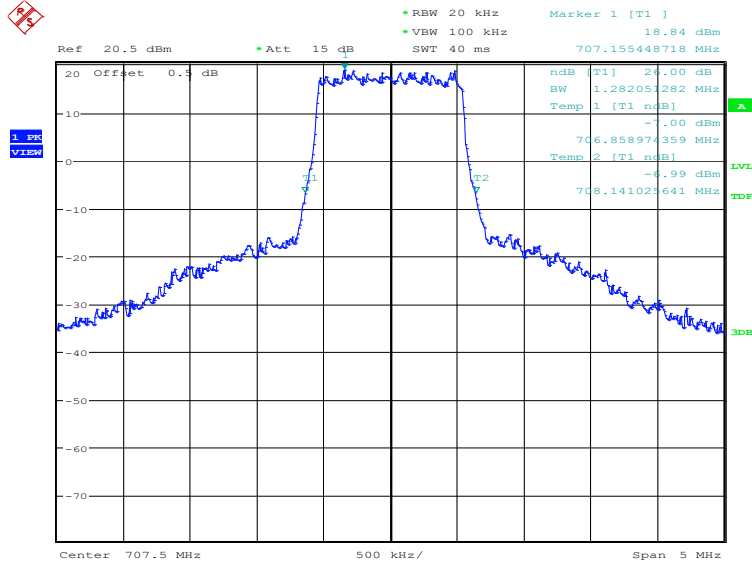
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ 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 12, 1.4MHz (-26dBc)

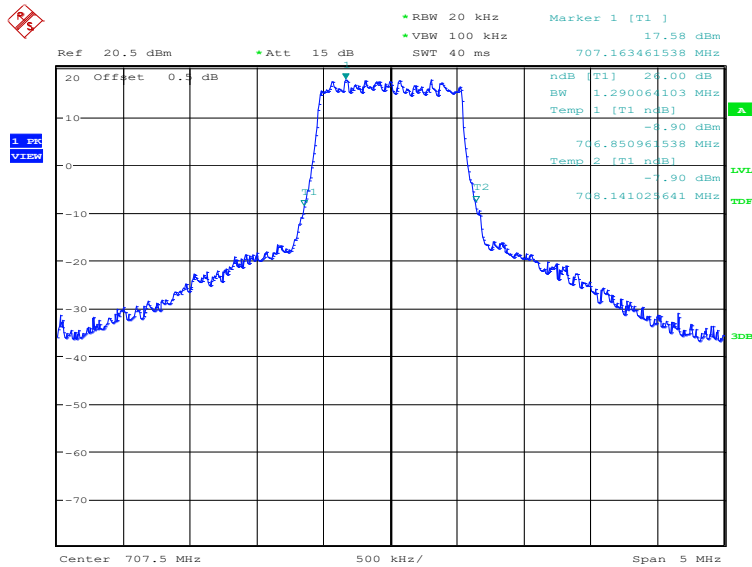
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1282.05	1290.06

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



Date: 16.OCT.2023 15:36:36

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

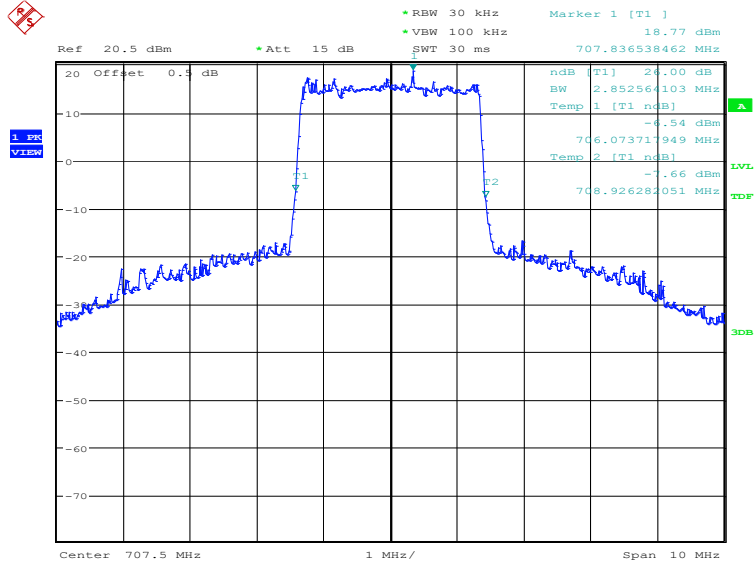


Date: 16.OCT.2023 15:37:17

LTE band 12, 3MHz (-26dBc)

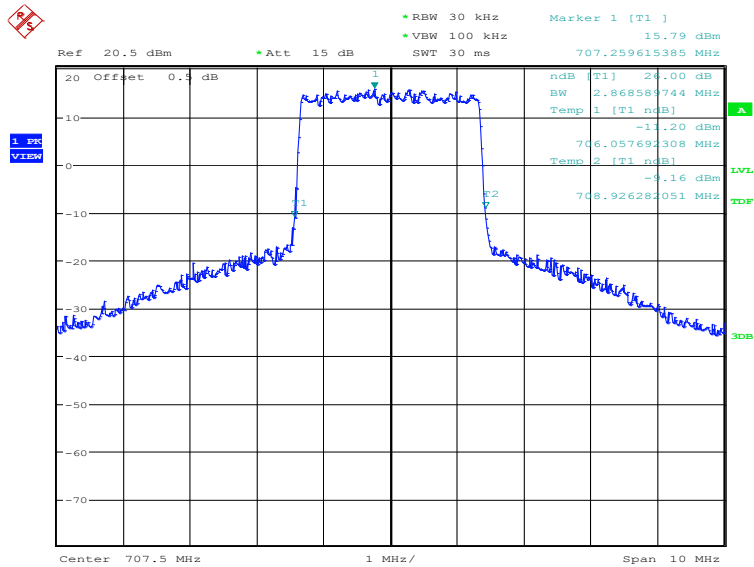
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2852.56	2868.59

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



Date: 16.OCT.2023 15:37:59

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

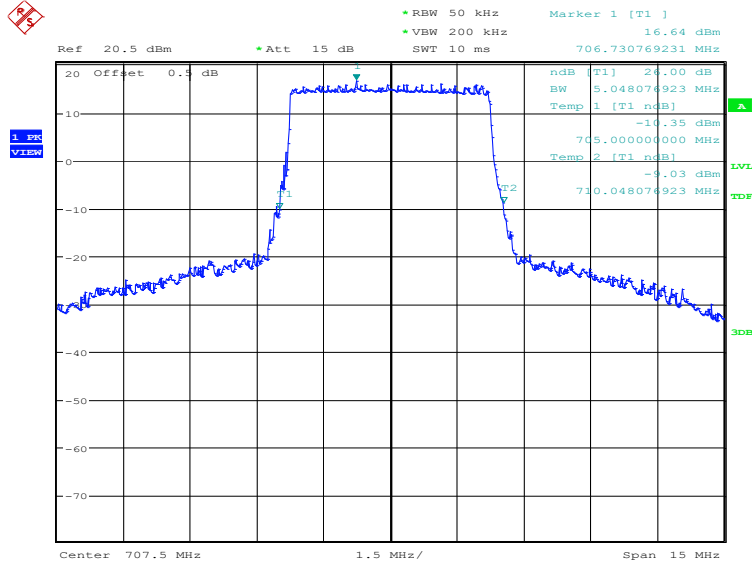


Date: 16.OCT.2023 15:38:40

LTE band 12, 5MHz (-26dBc)

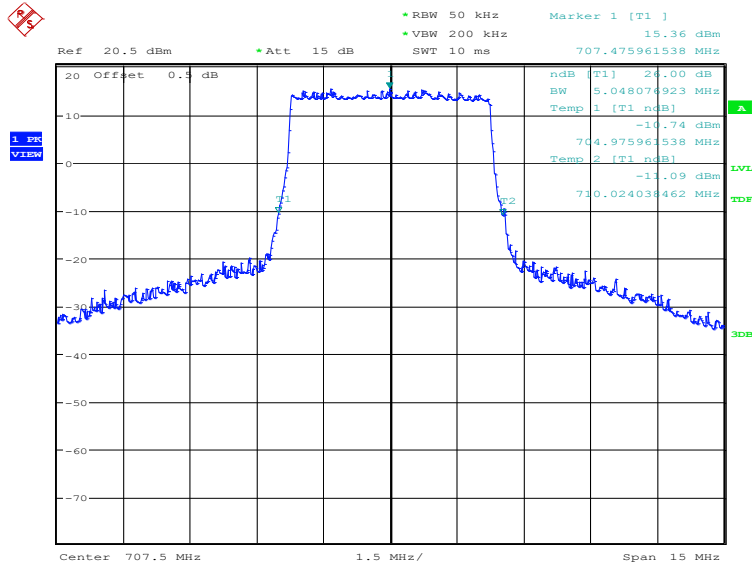
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	5048.08	5048.08

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



Date: 16.OCT.2023 15:39:23

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

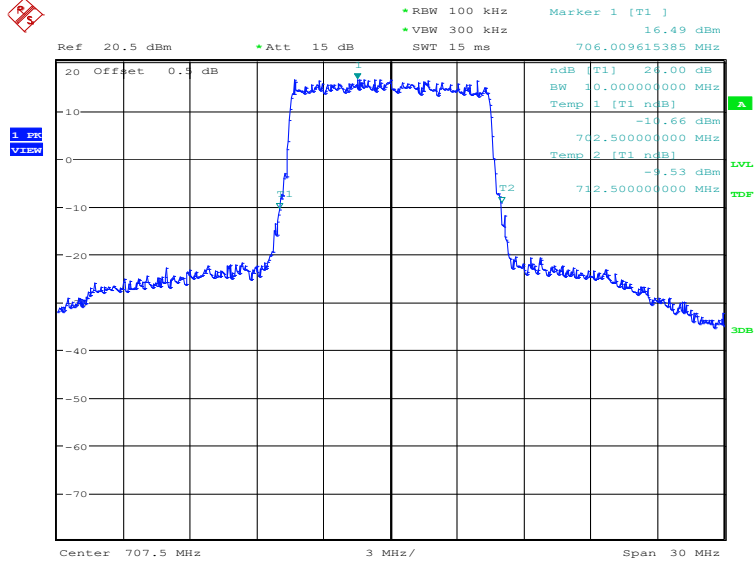


Date: 16.OCT.2023 15:40:04

LTE band 12, 10MHz (-26dBc)

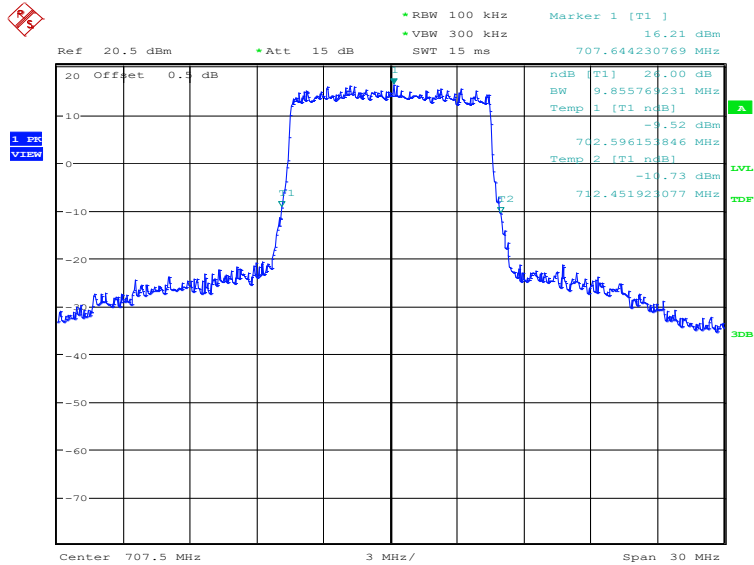
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	10000.00	9855.77

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



Date: 16.OCT.2023 15:40:46

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

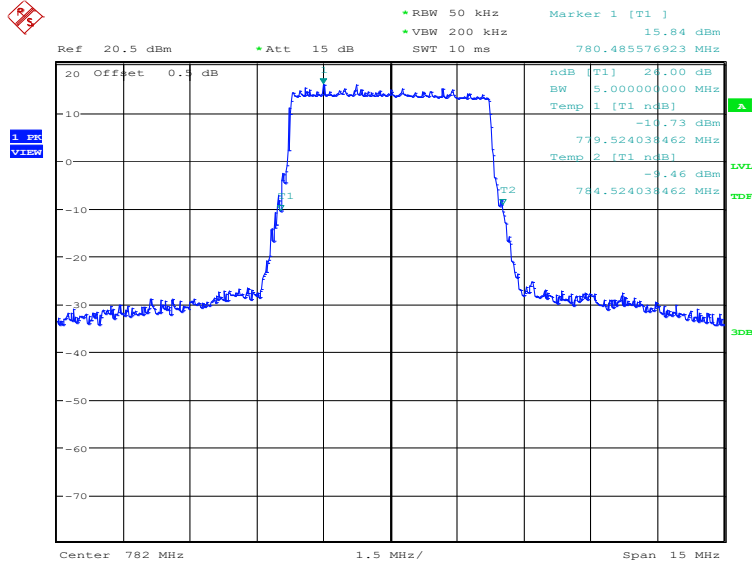


Date: 16.OCT.2023 15:41:27

LTE band 13, 5MHz (-26dBc)

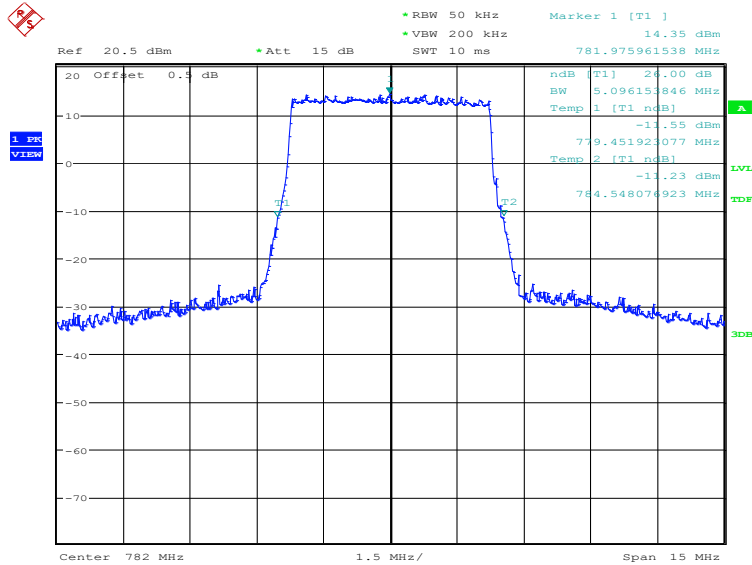
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	5000.00	5096.15

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



Date: 16.OCT.2023 15:42:11

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

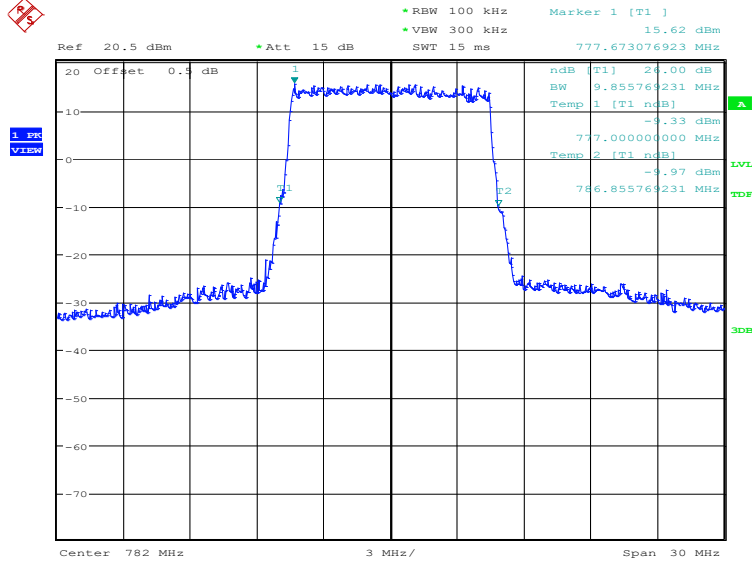


Date: 16.OCT.2023 15:42:52

LTE band 13, 10MHz (-26dBc)

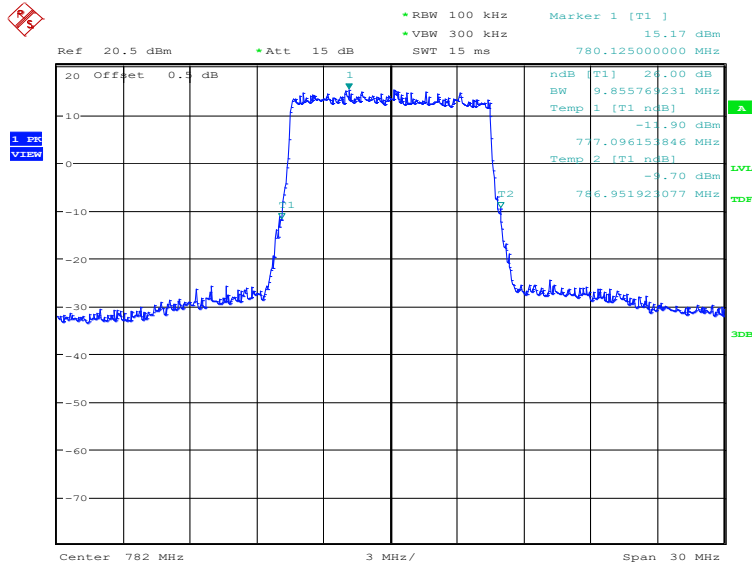
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9855.77	9855.77

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



Date: 16.OCT.2023 15:43:35

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

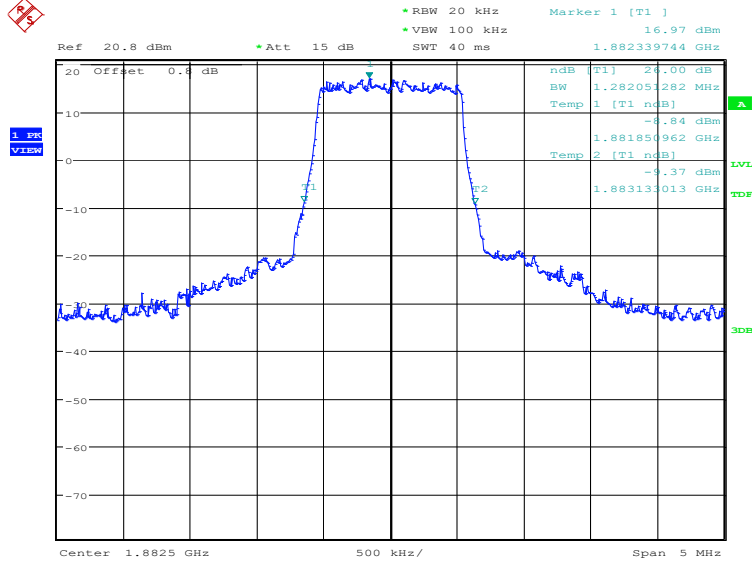


Date: 16.OCT.2023 15:44:16

LTE band 25, 1.4MHz (-26dBc)

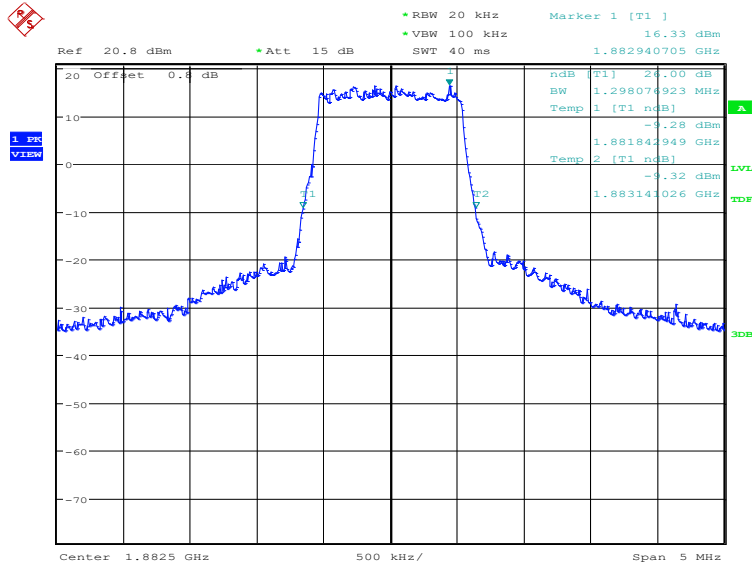
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1282.05	1298.08

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



Date: 16.OCT.2023 15:44:59

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

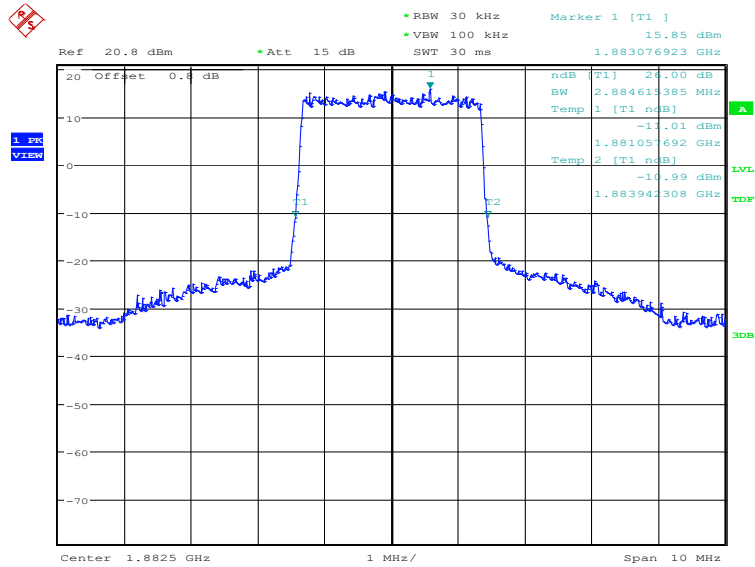


Date: 16.OCT.2023 15:45:40

LTE band 25, 3MHz (-26dBc)

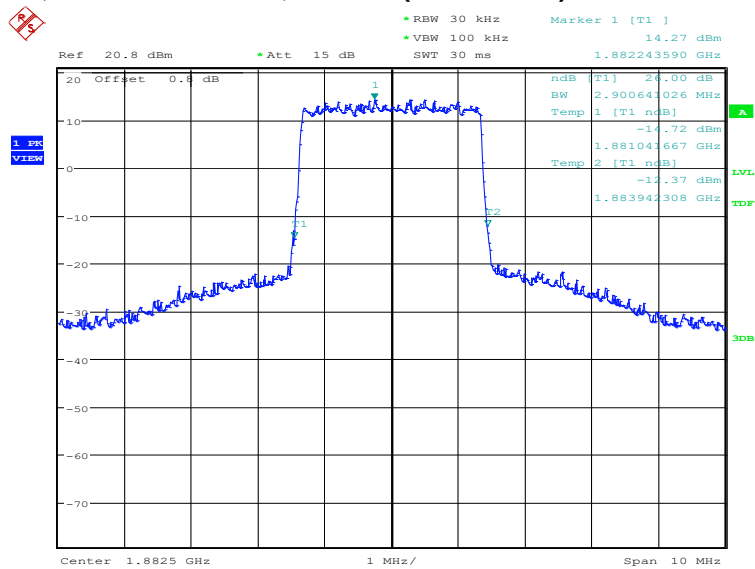
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2884.62	2900.64

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



Date: 16.OCT.2023 15:46:23

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

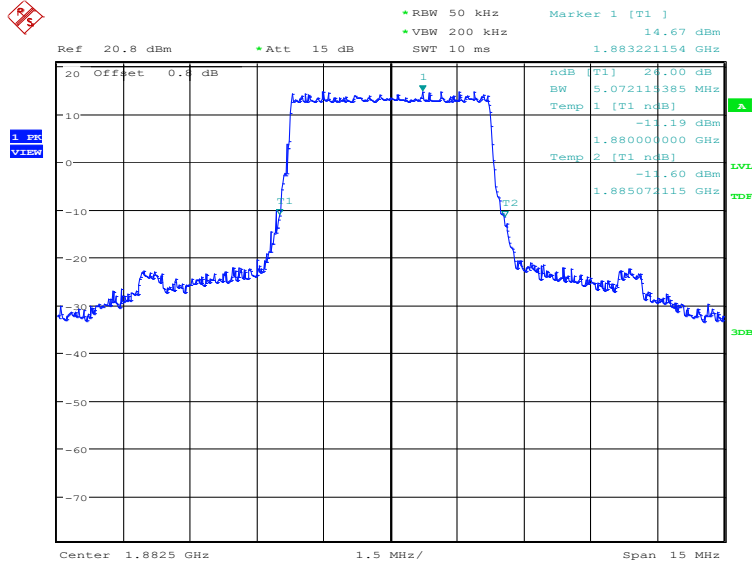


Date: 16.OCT.2023 15:47:04

LTE band 25, 5MHz (-26dBc)

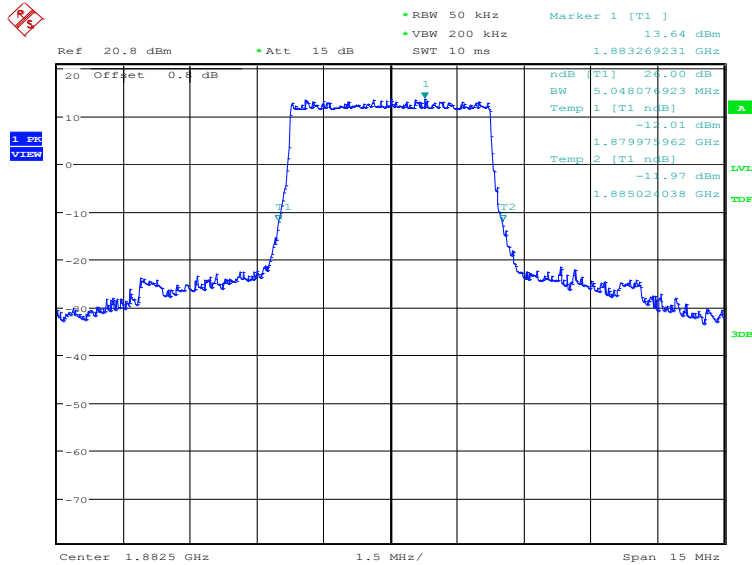
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	5072.12	5048.08

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



Date: 16.OCT.2023 15:47:47

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

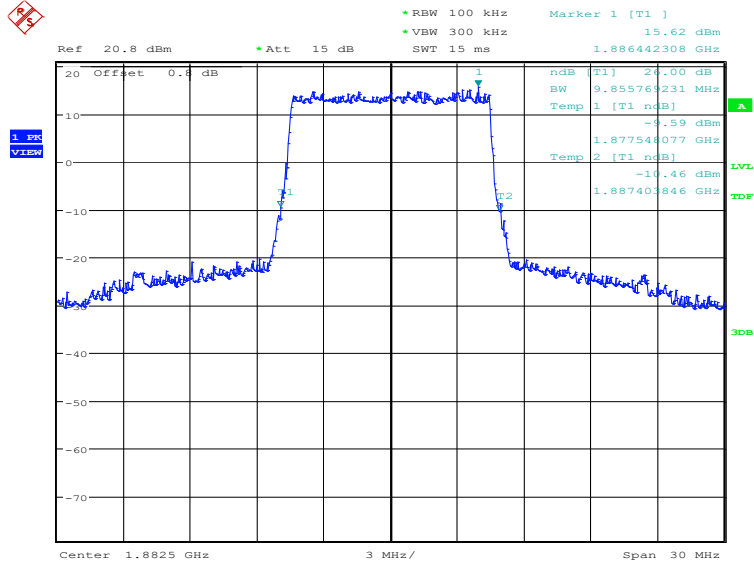


Date: 16.OCT.2023 15:48:28

LTE band 25, 10MHz (-26dBc)

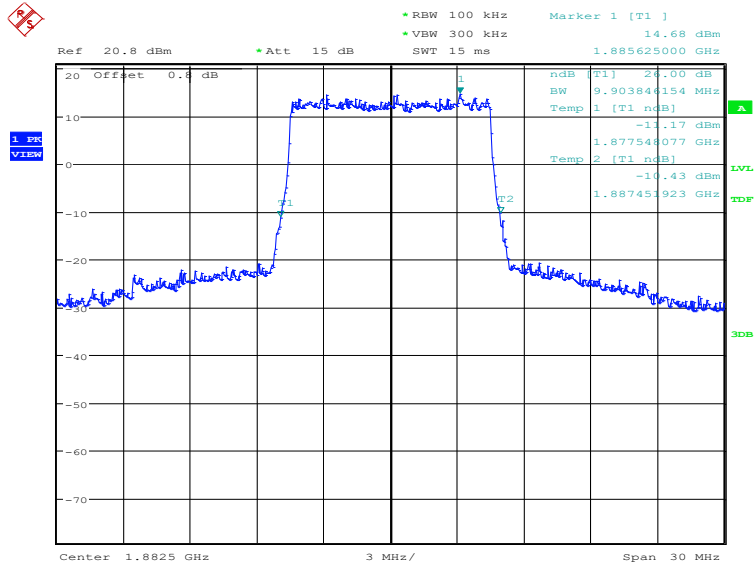
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	9855.77	9903.85

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



Date: 16.OCT.2023 15:49:10

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

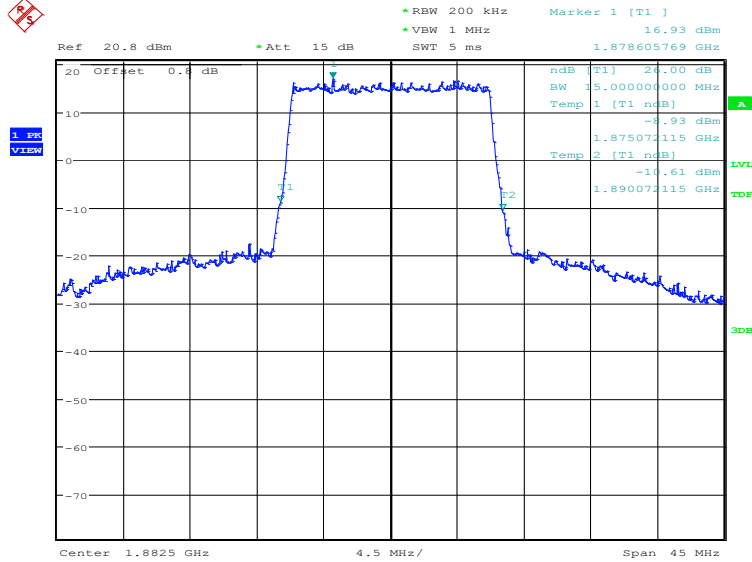


Date: 16.OCT.2023 15:49:51

LTE band 25, 15MHz (-26dBc)

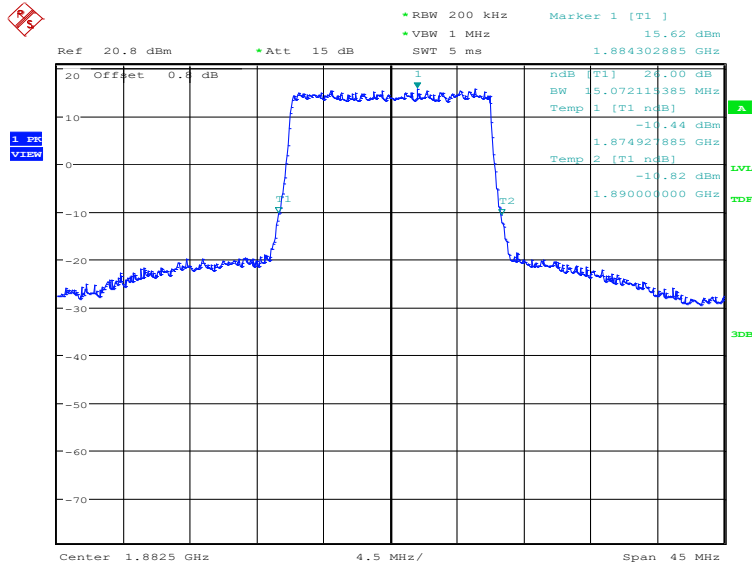
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	15000.00	15072.12

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



Date: 16.OCT.2023 15:50:34

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

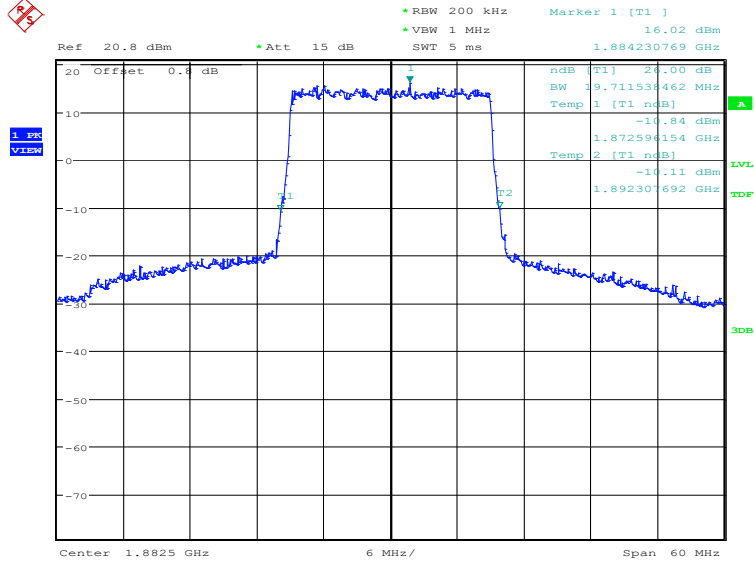


Date: 16.OCT.2023 15:51:15

LTE band 25, 20MHz (-26dBc)

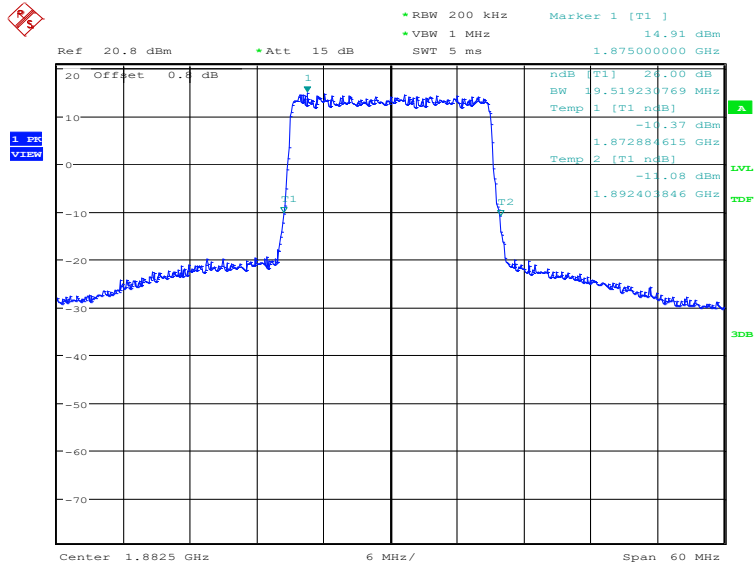
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
	1882.5	QPSK
	19711.54	19519.23

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



Date: 16.OCT.2023 15:51:58

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

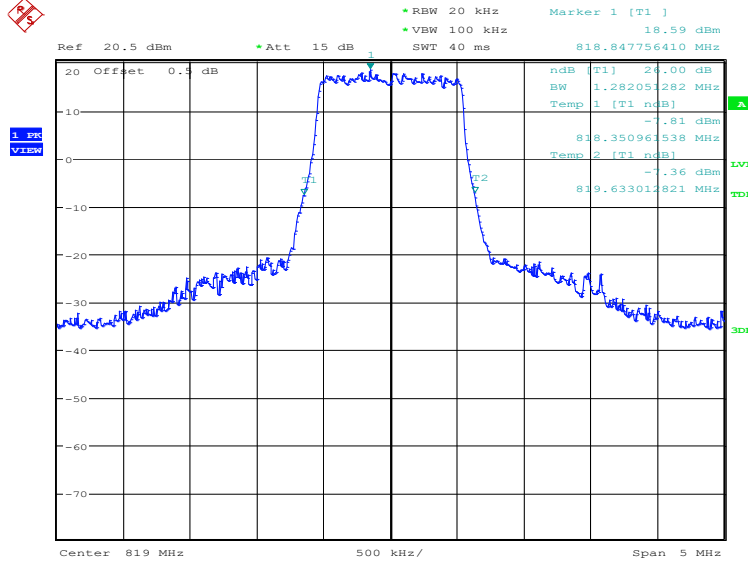


Date: 16.OCT.2023 15:52:39

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

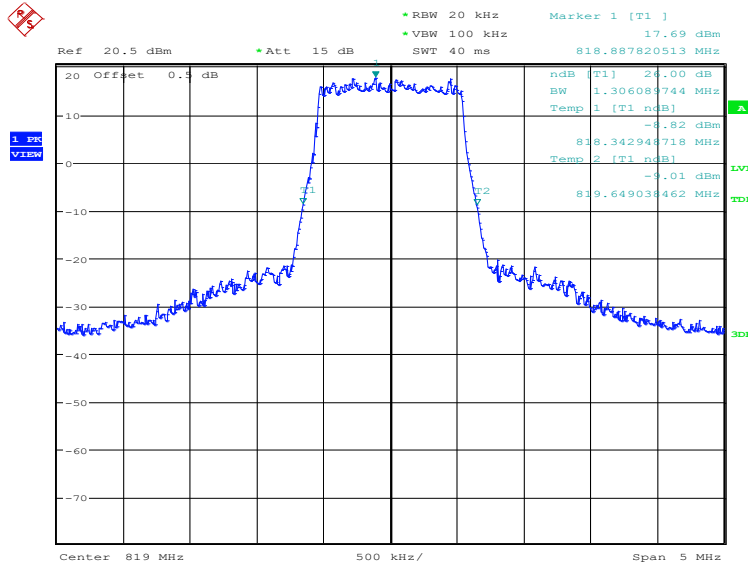
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1282.05	1306.09

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



Date: 16.OCT.2023 16:01:03

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

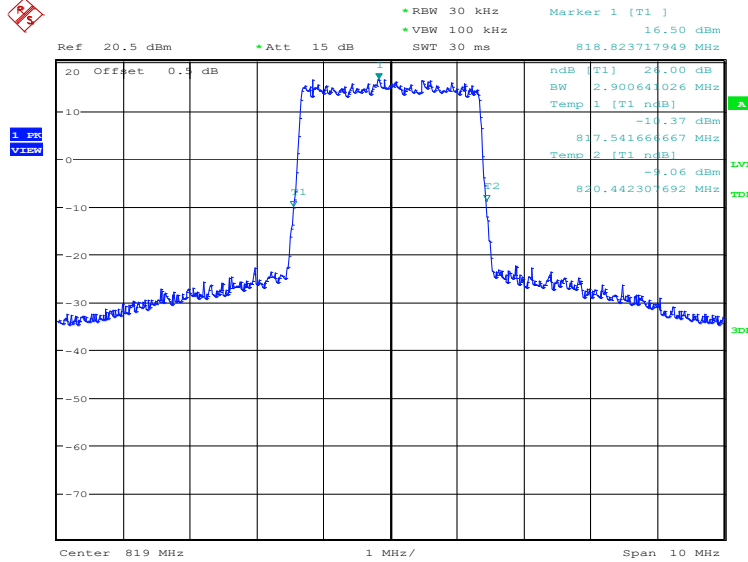


Date: 16.OCT.2023 16:01:45

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

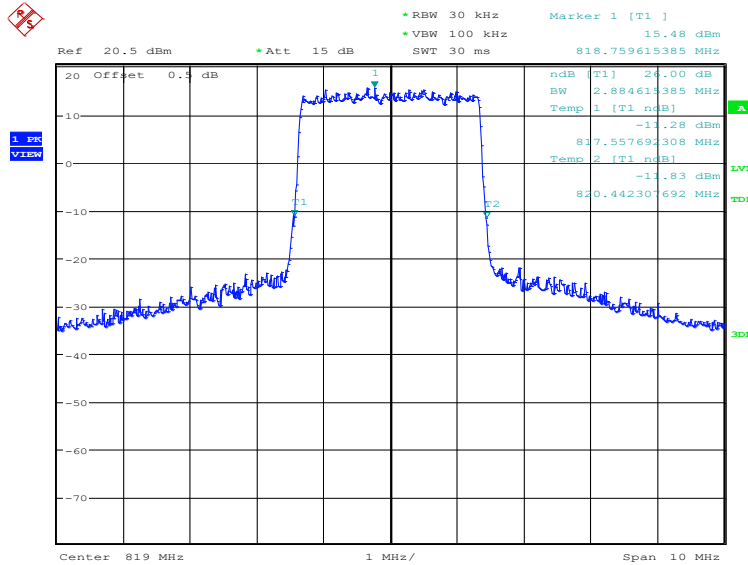
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2900.64	2884.62

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



Date: 16.OCT.2023 16:02:27

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

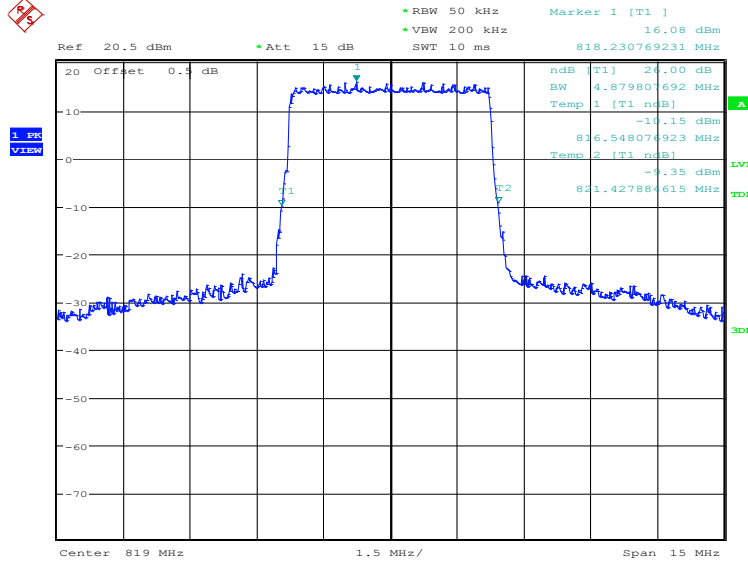


Date: 16.OCT.2023 16:03:08

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

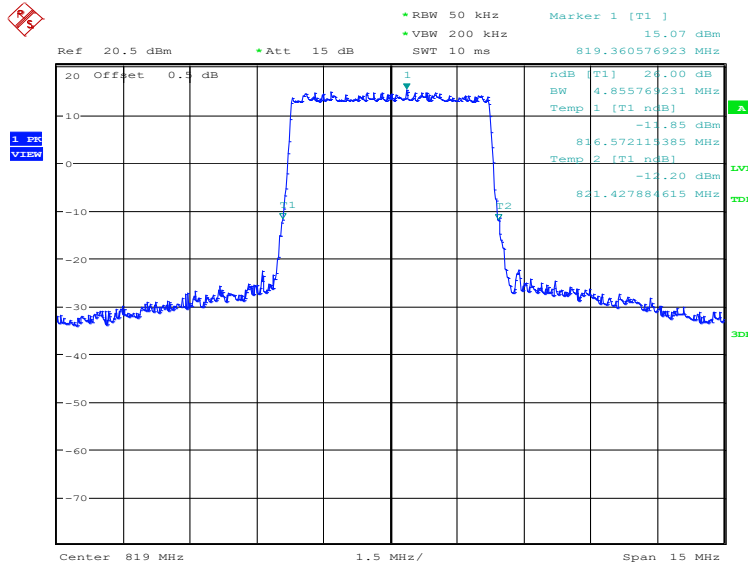
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4879.81	4855.77

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



Date: 16.OCT.2023 16:03:51

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

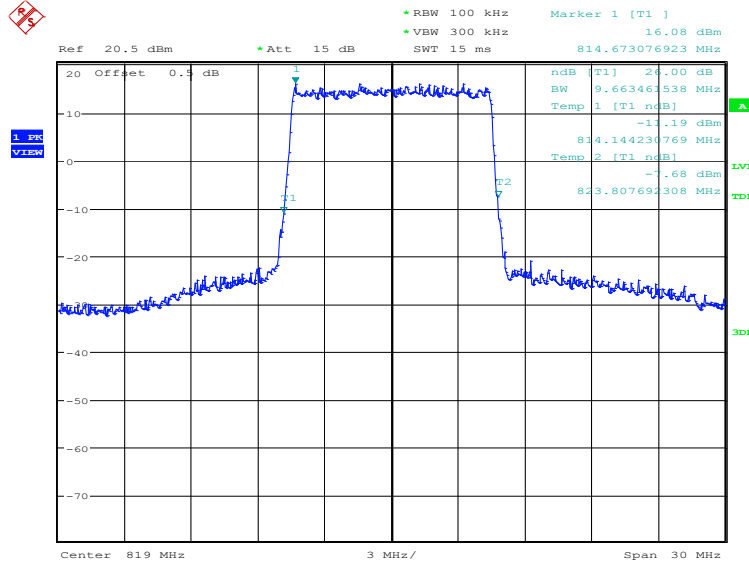


Date: 16.OCT.2023 16:04:32

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

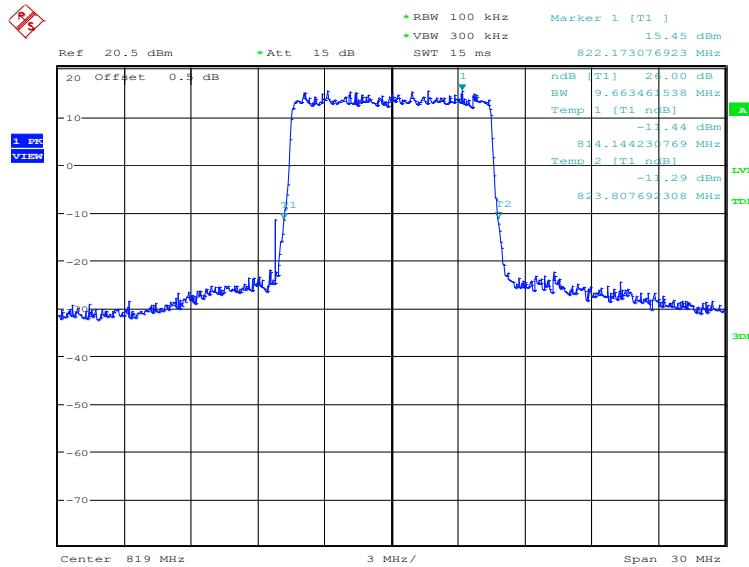
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9663.46	9663.46

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



Date: 16.OCT.2023 16:05:15

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

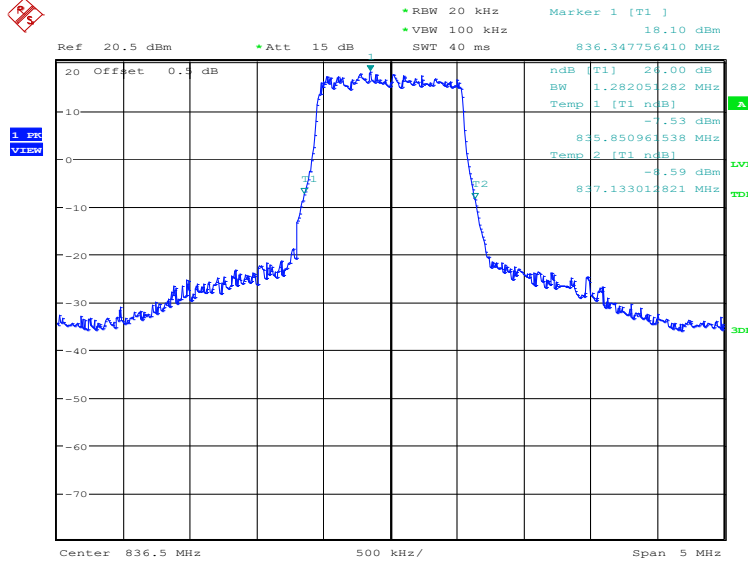


Date: 16.OCT.2023 16:05:56

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

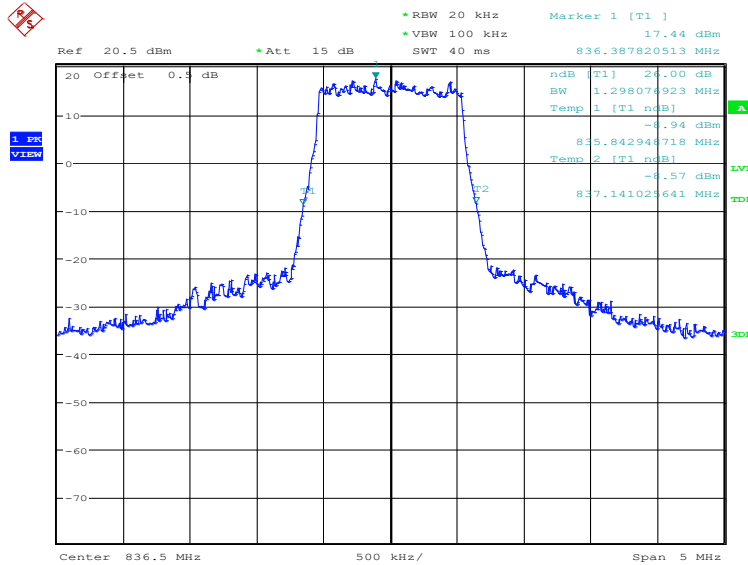
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1282.05	1298.08

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



Date: 16.OCT.2023 15:53:23

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

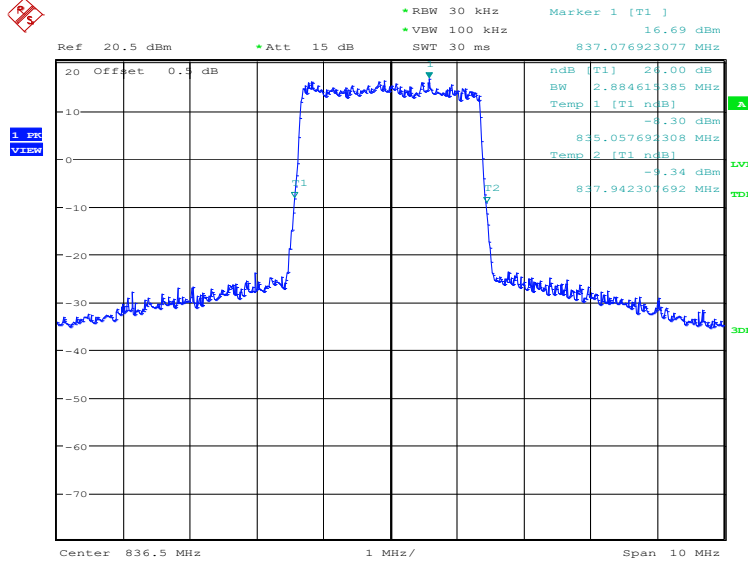


Date: 16.OCT.2023 15:54:05

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

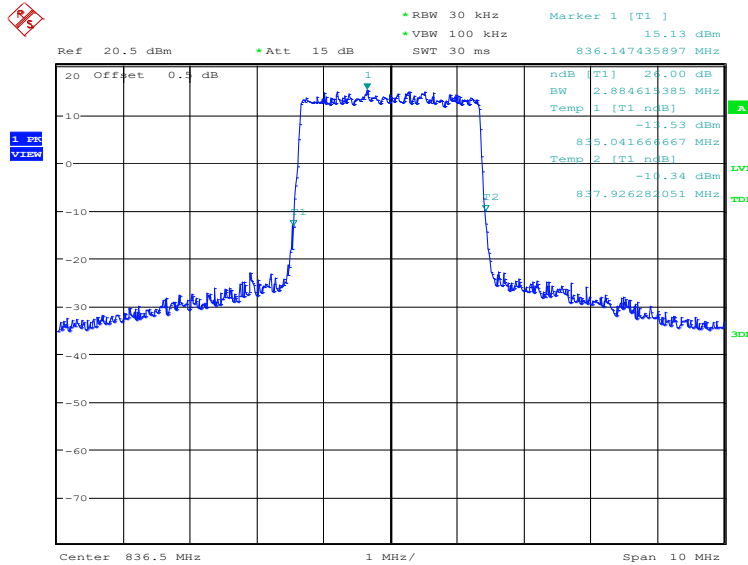
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2884.62	2884.62

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



Date: 16.OCT.2023 15:54:47

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

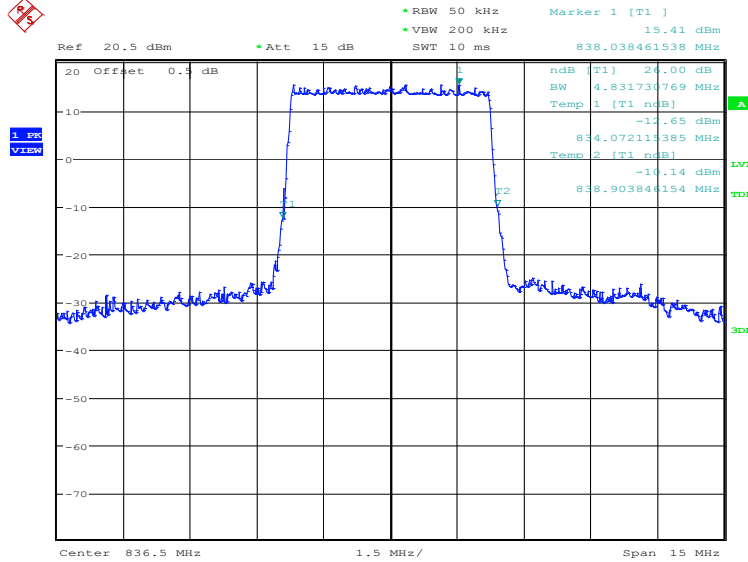


Date: 16.OCT.2023 15:55:28

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

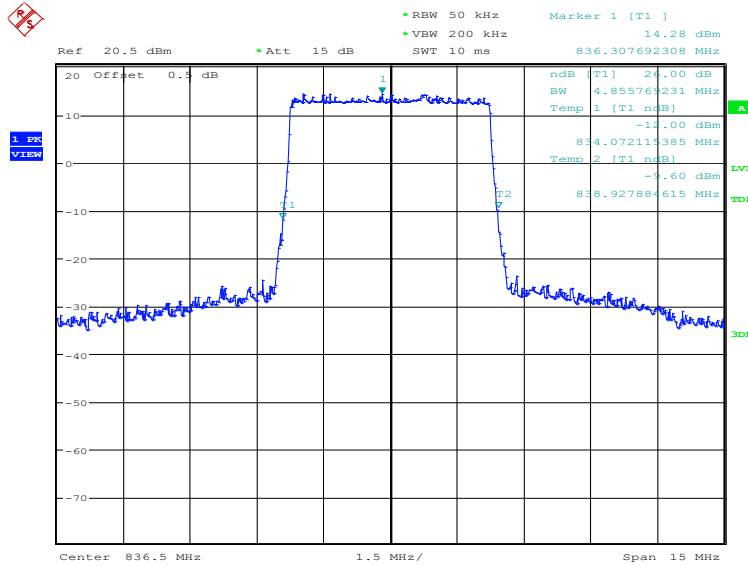
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4831.73	4855.77

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



Date: 16.OCT.2023 15:56:11

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

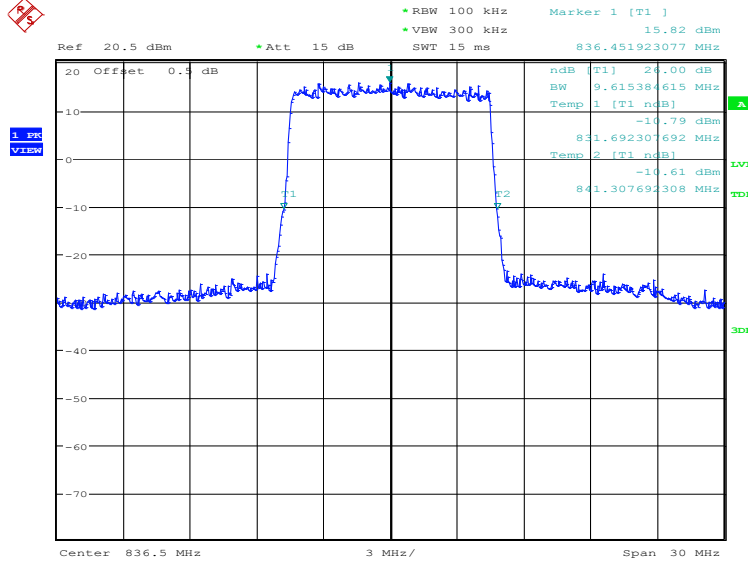


Date: 16.OCT.2023 15:56:52

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

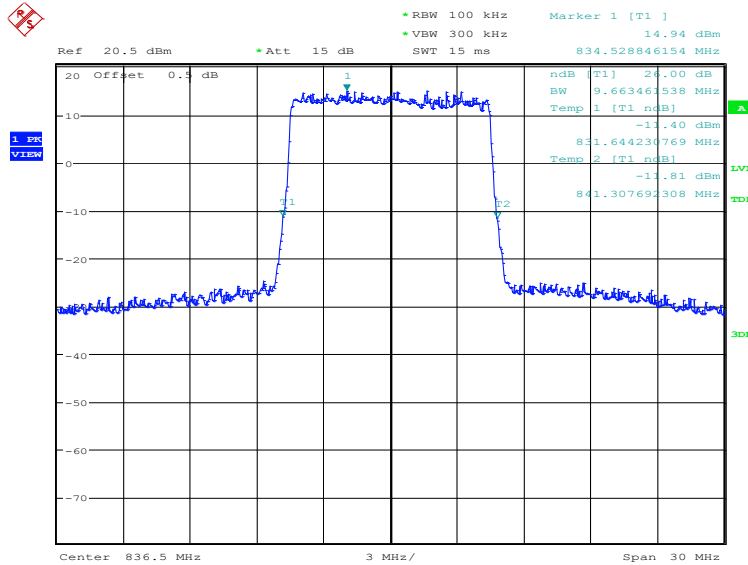
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9615.38	9663.46

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



Date: 16.OCT.2023 15:57:35

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

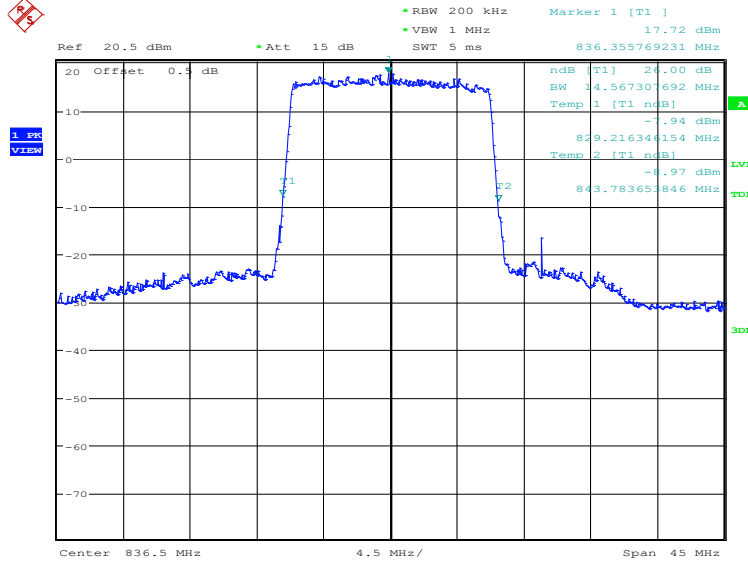


Date: 16.OCT.2023 15:58:16

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

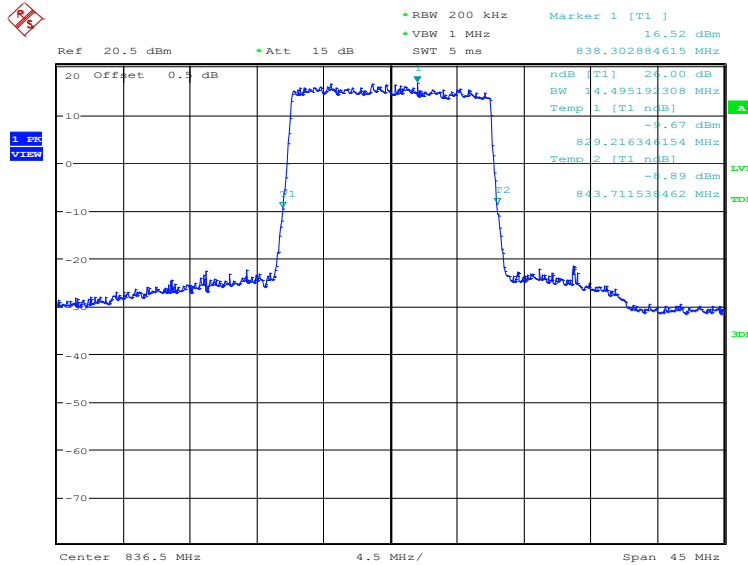
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14567.31	14495.19

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



Date: 16.OCT.2023 15:58:58

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

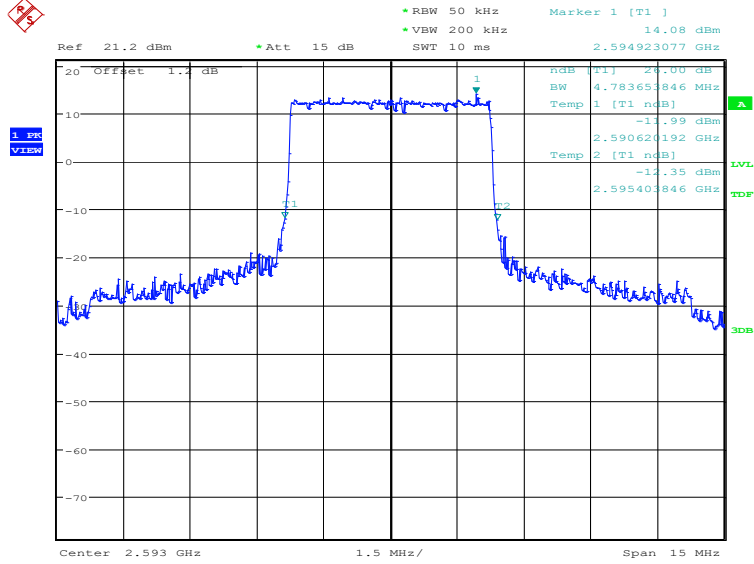


Date: 16.OCT.2023 15:59:39

LTE band 41, 5MHz (-26dBc)

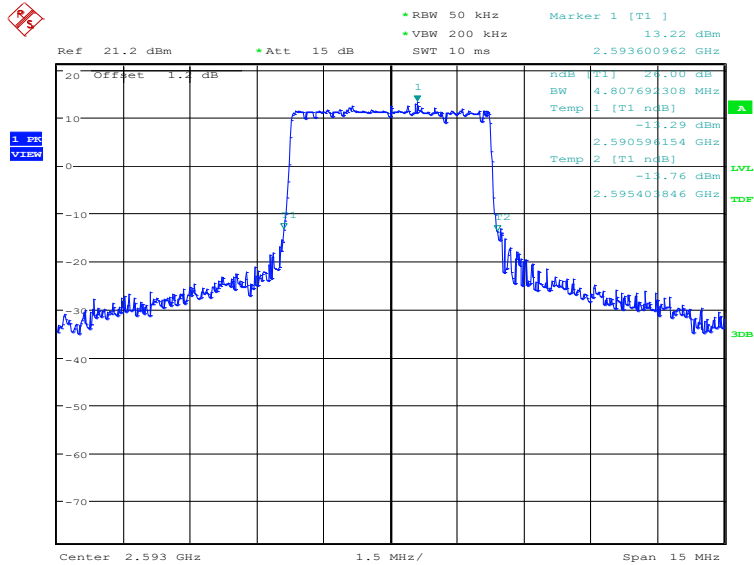
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4783.65	4807.69

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



Date: 23.OCT.2023 09:48:52

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

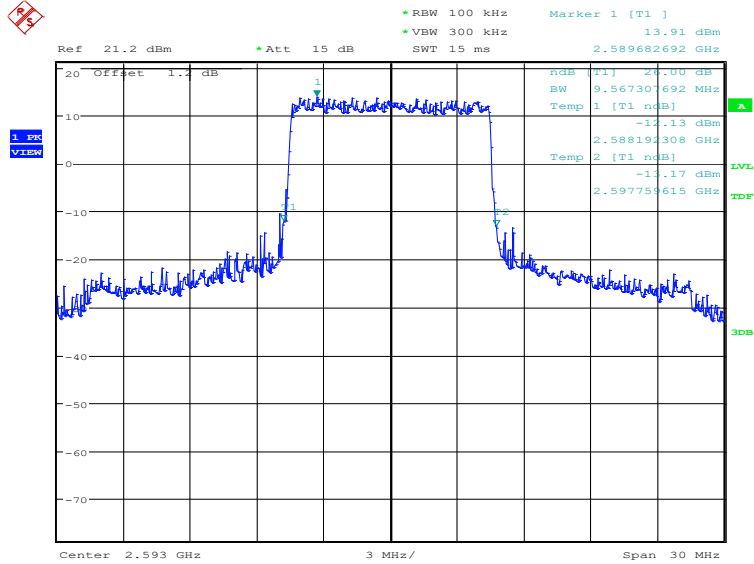


Date: 23.OCT.2023 09:49:32

LTE band 41, 10MHz (-26dBc)

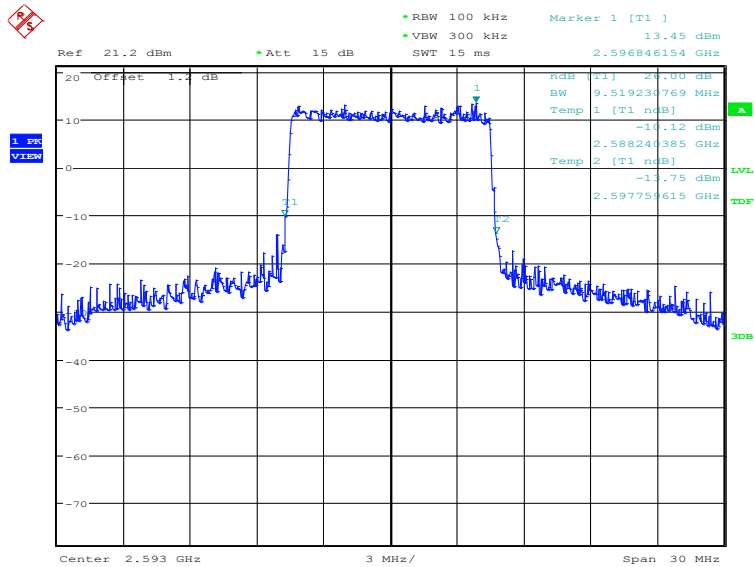
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9567.31	9519.23

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



Date: 23.OCT.2023 09:50:15

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

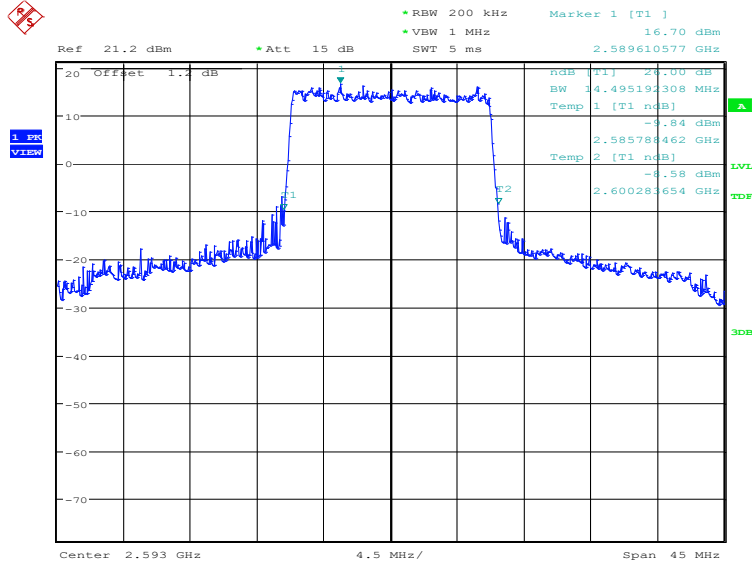


Date: 23.OCT.2023 09:50:55

LTE band 41, 15MHz (-26dBc)

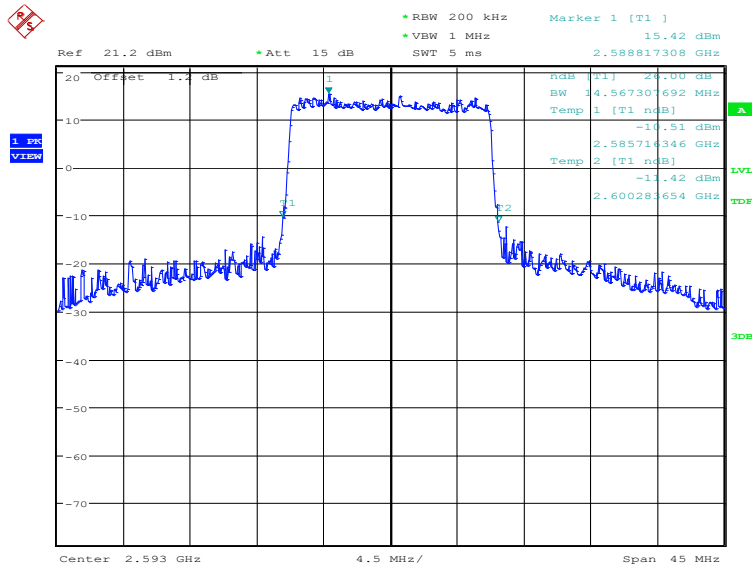
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
	2593.0	QPSK
	14495.19	14567.31

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



Date: 23.OCT.2023 09:51:37

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

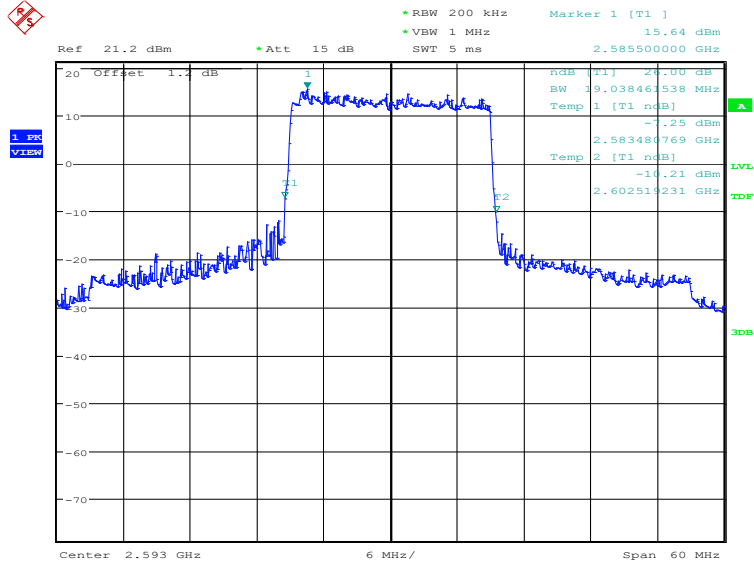


Date: 23.OCT.2023 09:52:18

LTE band 41, 20MHz (-26dBc)

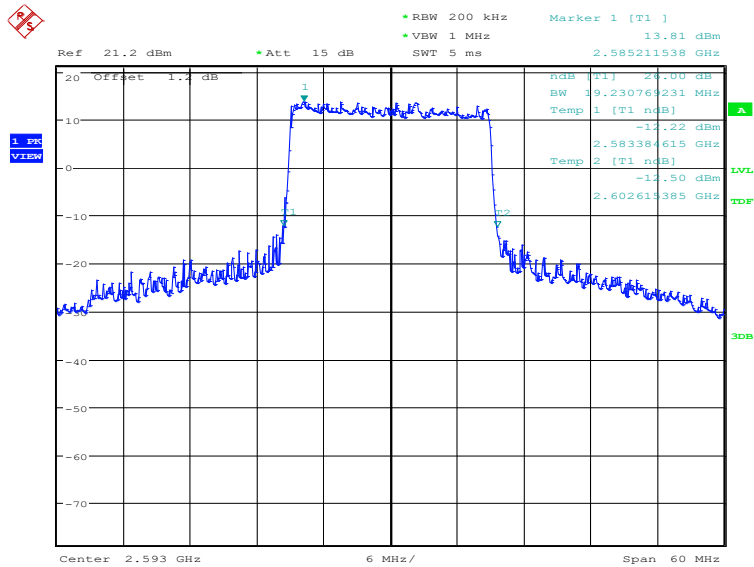
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	19038.46	19230.77

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



Date: 23.OCT.2023 09:53:00

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

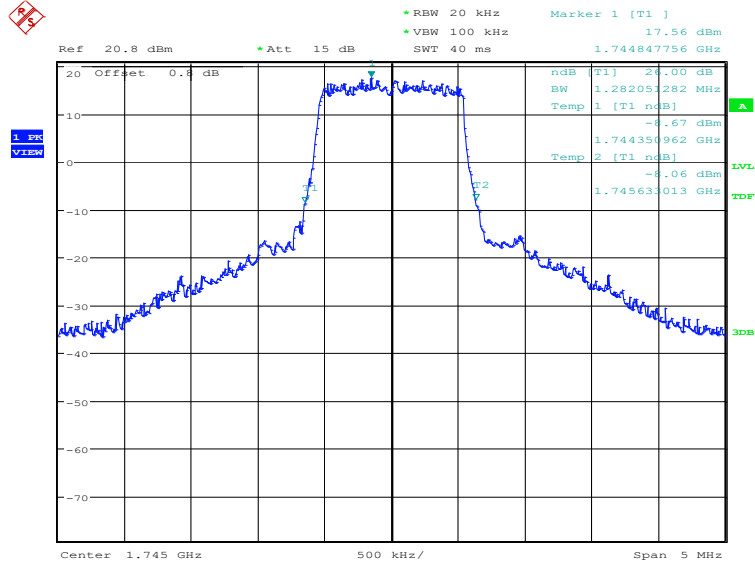


Date: 23.OCT.2023 09:53:41

LTE band 66, 1.4MHz (-26dBc)

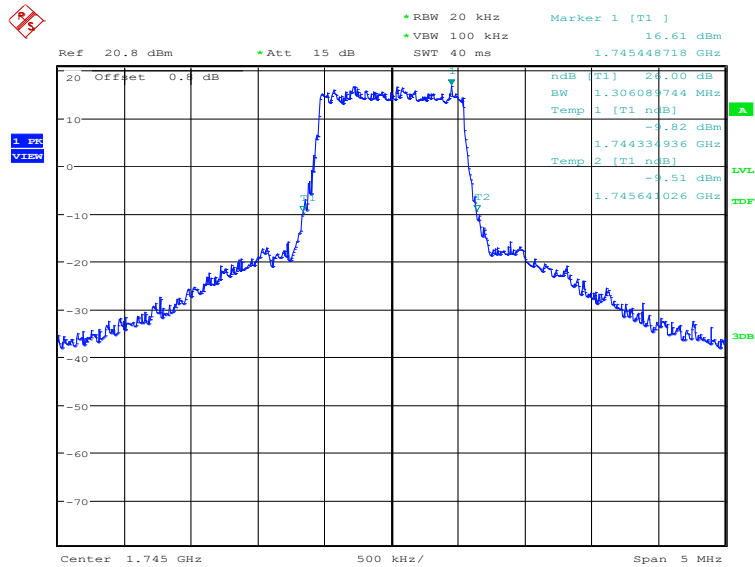
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1282.05	1306.09

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



Date: 16.OCT.2023 16:06:40

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

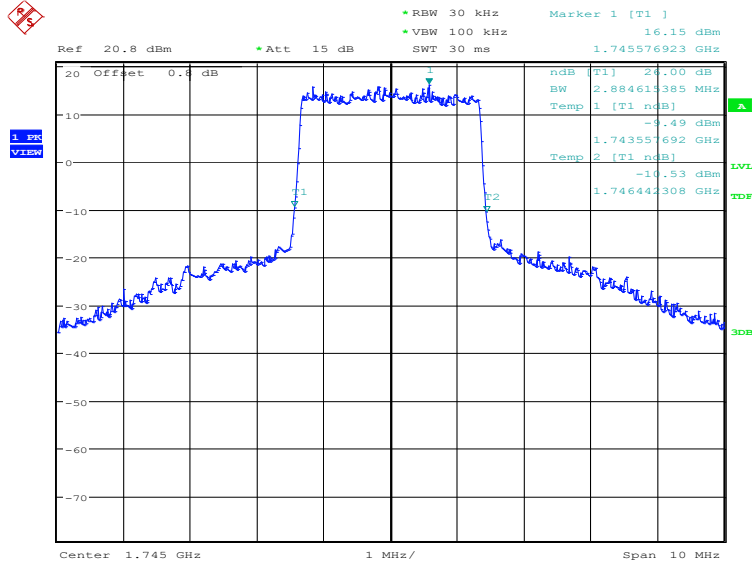


Date: 16.OCT.2023 16:07:21

LTE band 66, 3MHz (-26dBc)

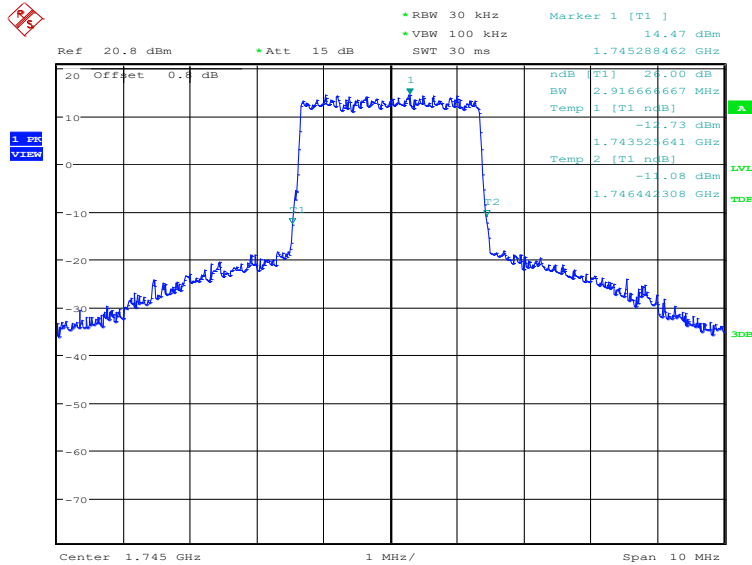
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2884.62	2916.67

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



Date: 16.OCT.2023 16:08:04

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

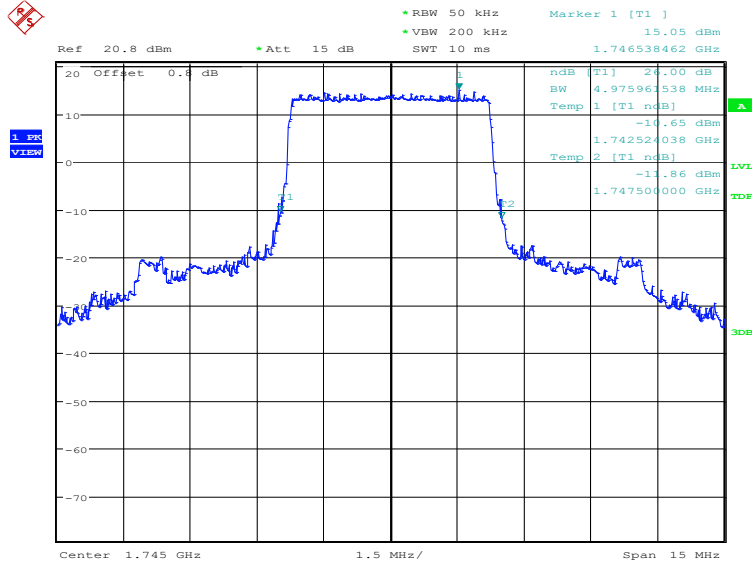


Date: 16.OCT.2023 16:08:45

LTE band 66, 5MHz (-26dBc)

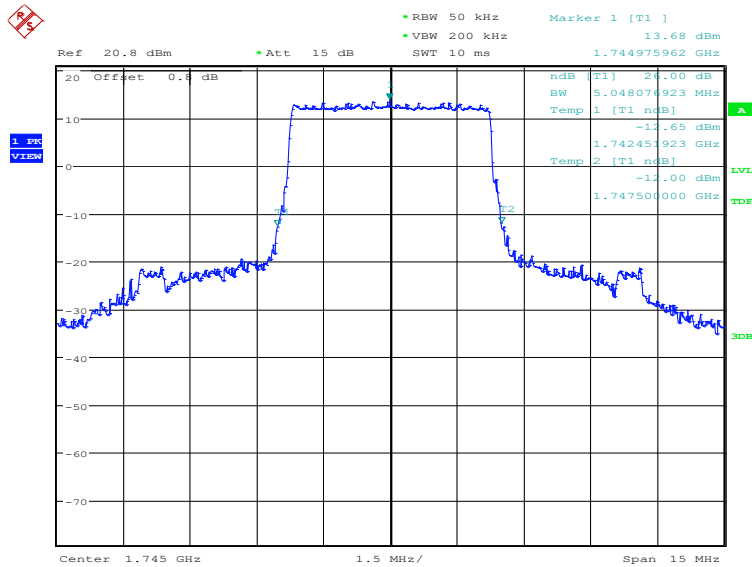
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4975.96	5048.08

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



Date: 16.OCT.2023 16:09:27

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

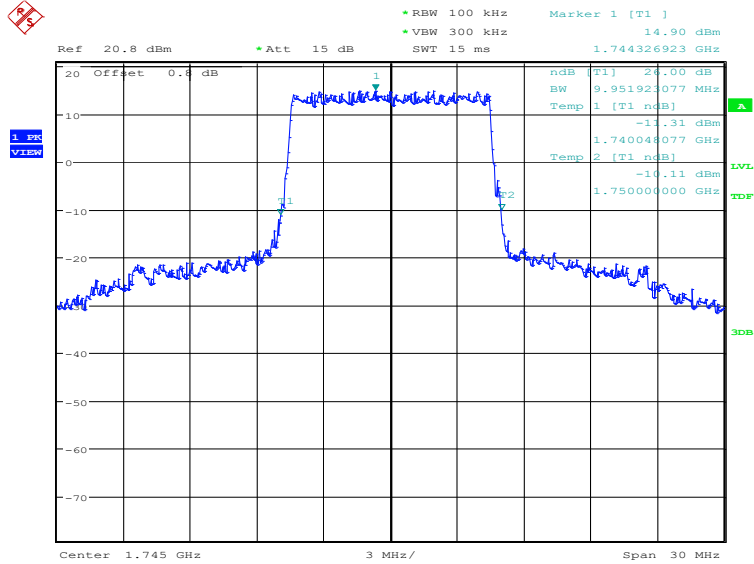


Date: 16.OCT.2023 16:10:09

LTE band 66, 10MHz (-26dBc)

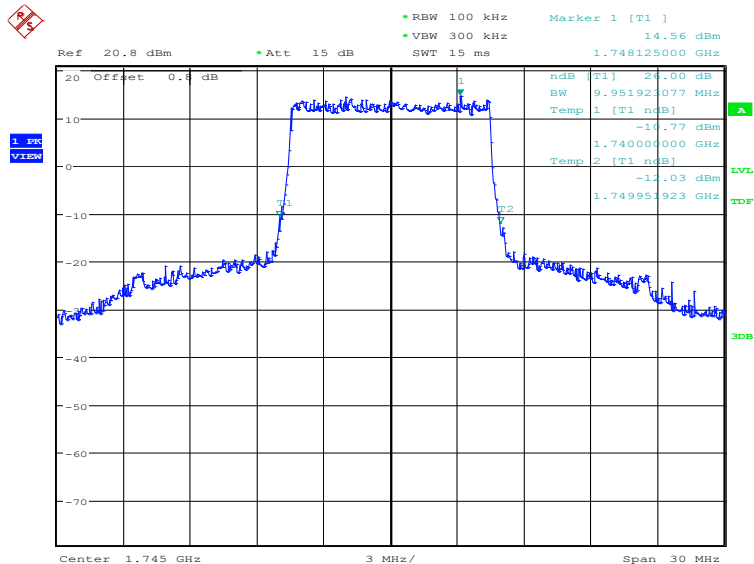
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9951.92	9951.92

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



Date: 16.OCT.2023 16:10:51

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



Date: 16.OCT.2023 16:11:32