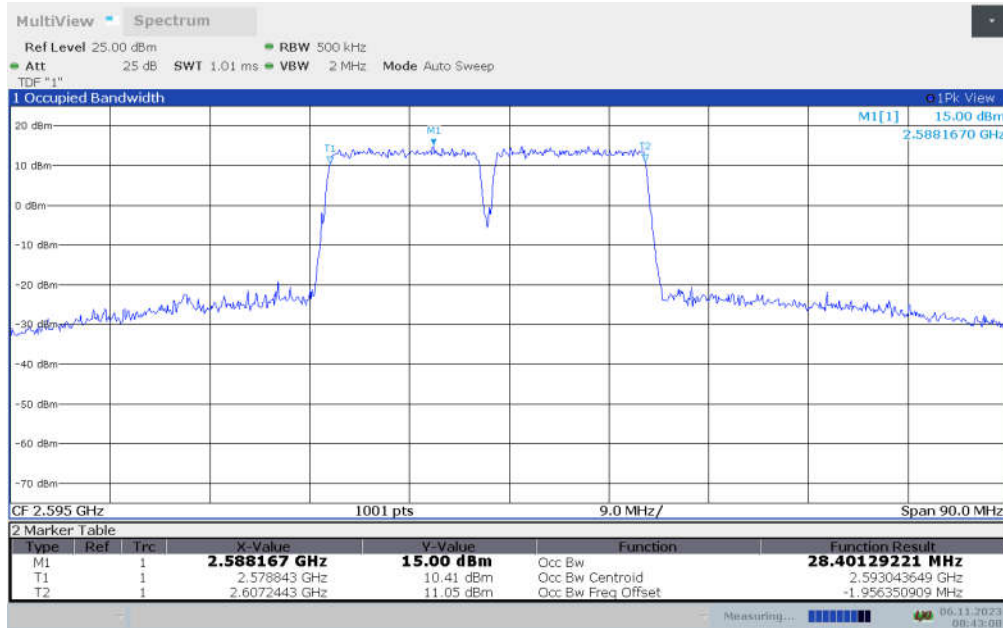


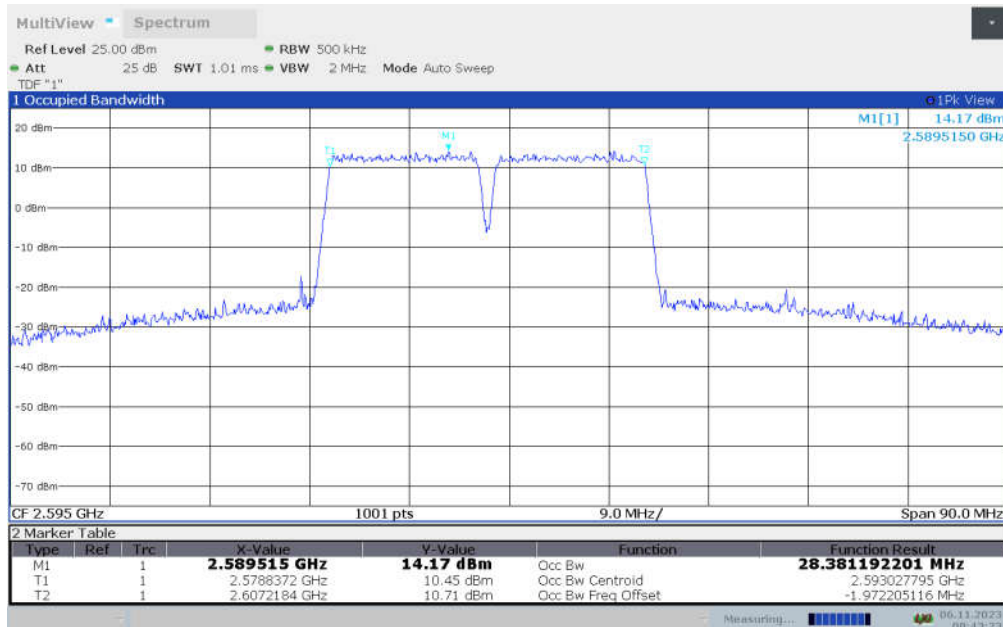
**LTE CA\_41C, 15MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	28.401	28.381

**LTE CA\_41C , 15MHz+15MHz Bandwidth, QPSK (99% BW)**



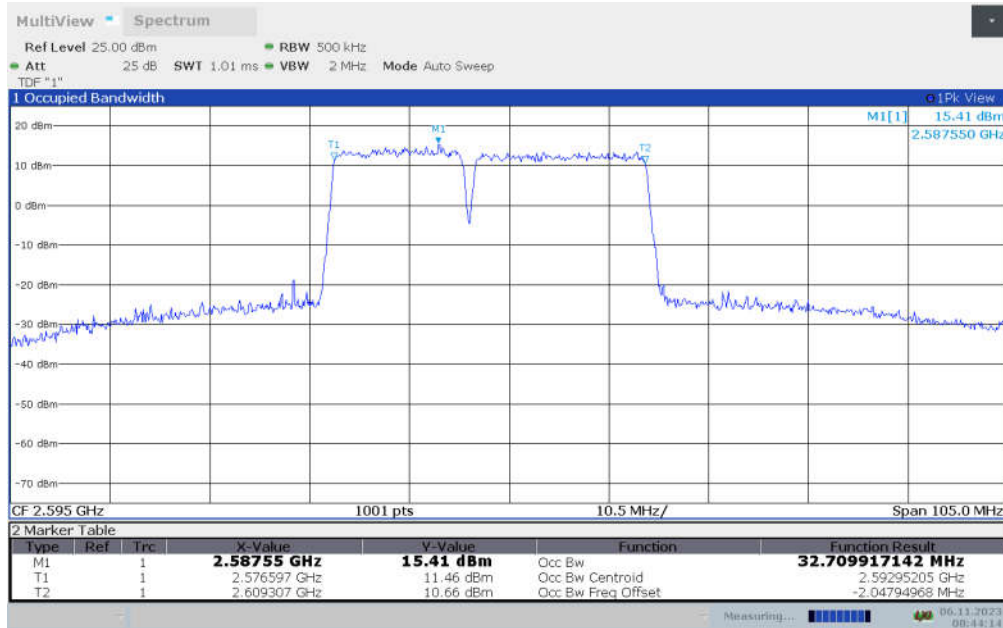
**LTE CA\_41C , 15MHz+15MHz Bandwidth, 16QAM (99% BW)**



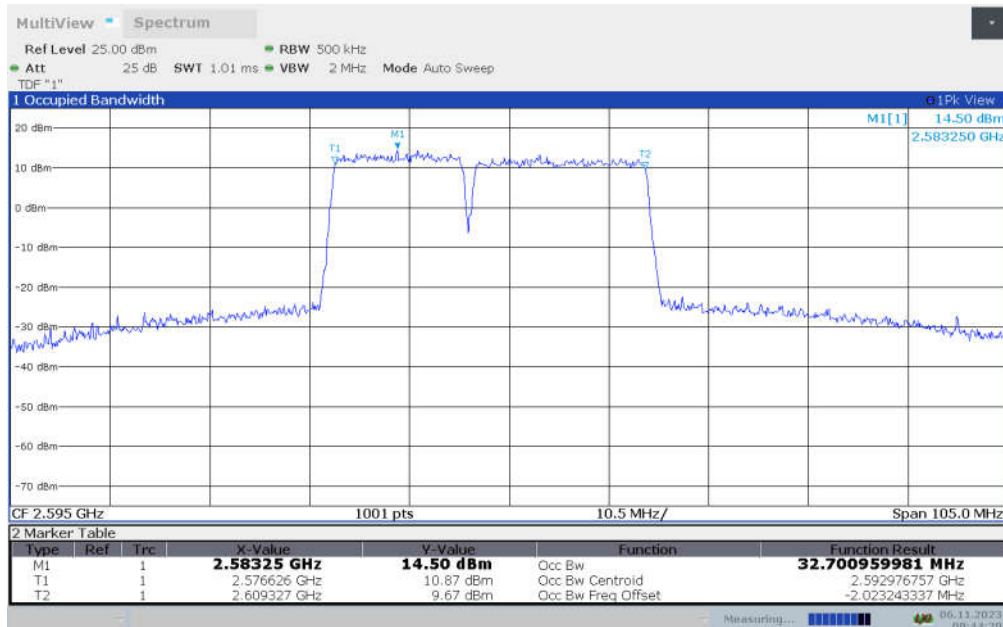
**LTE CA\_41C, 15MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	32.710	32.701

**LTE CA\_41C , 15MHz+20MHz Bandwidth, QPSK (99% BW)**



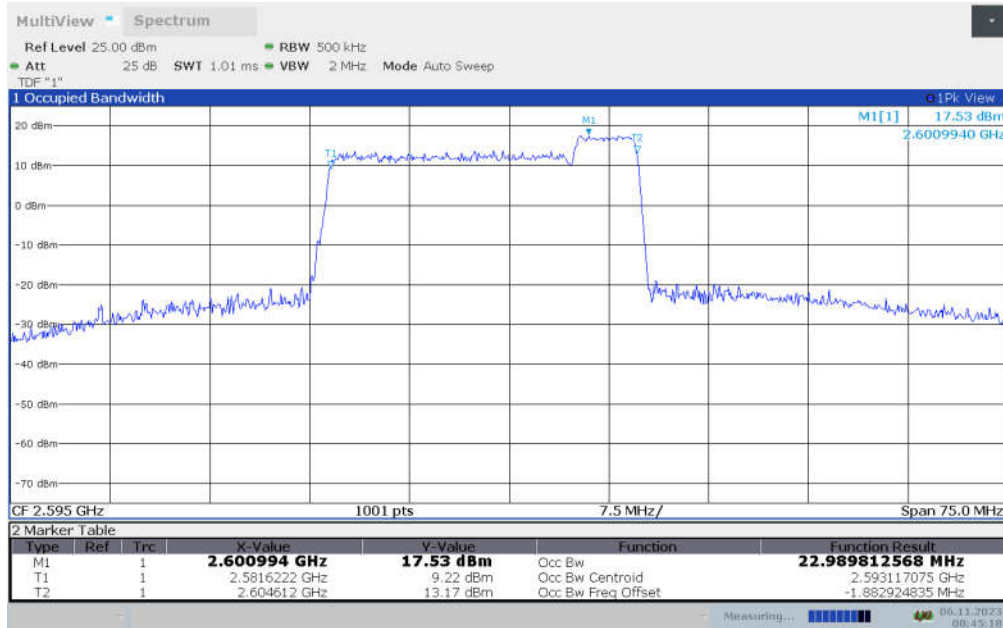
**LTE CA\_41C , 15MHz+20MHz Bandwidth, 16QAM (99% BW)**



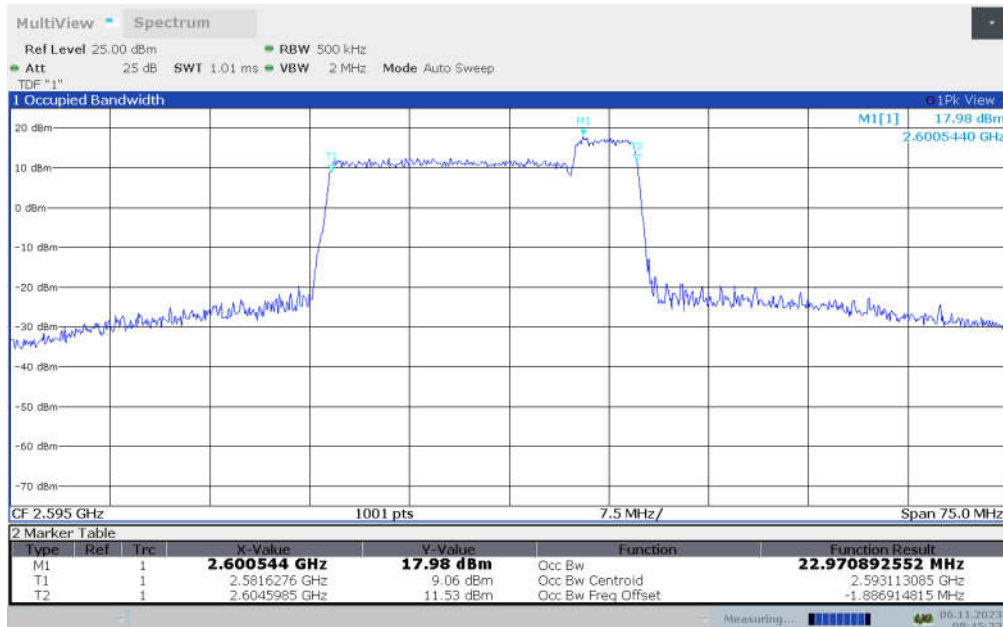
**LTE CA\_41C, 20MHz+5MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	22.990	22.971

**LTE CA\_41C , 20MHz+5MHz Bandwidth, QPSK (99% BW)**



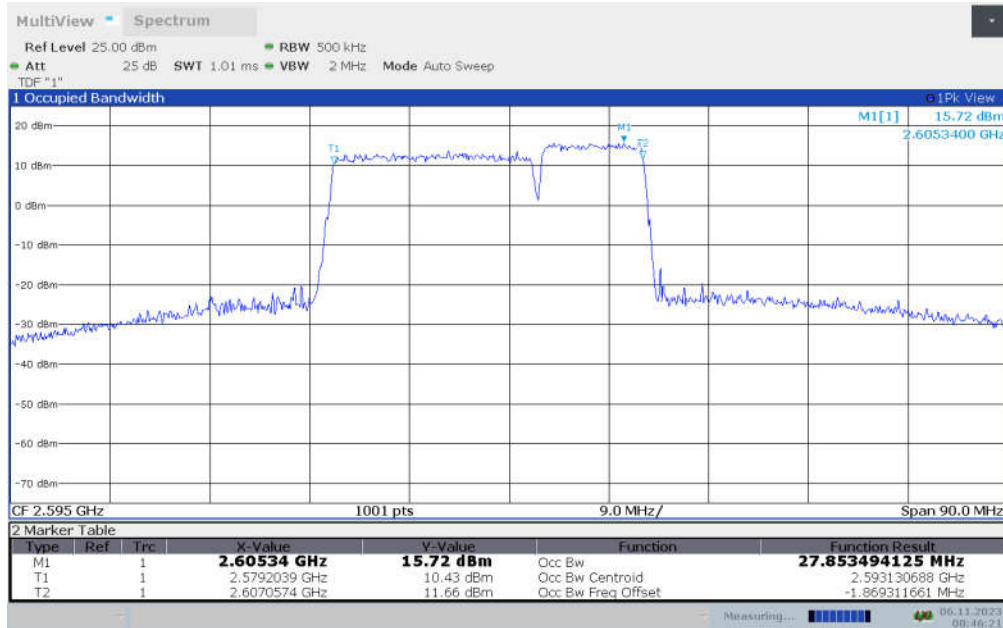
**LTE CA\_41C , 20MHz+5MHz Bandwidth, 16QAM (99% BW)**



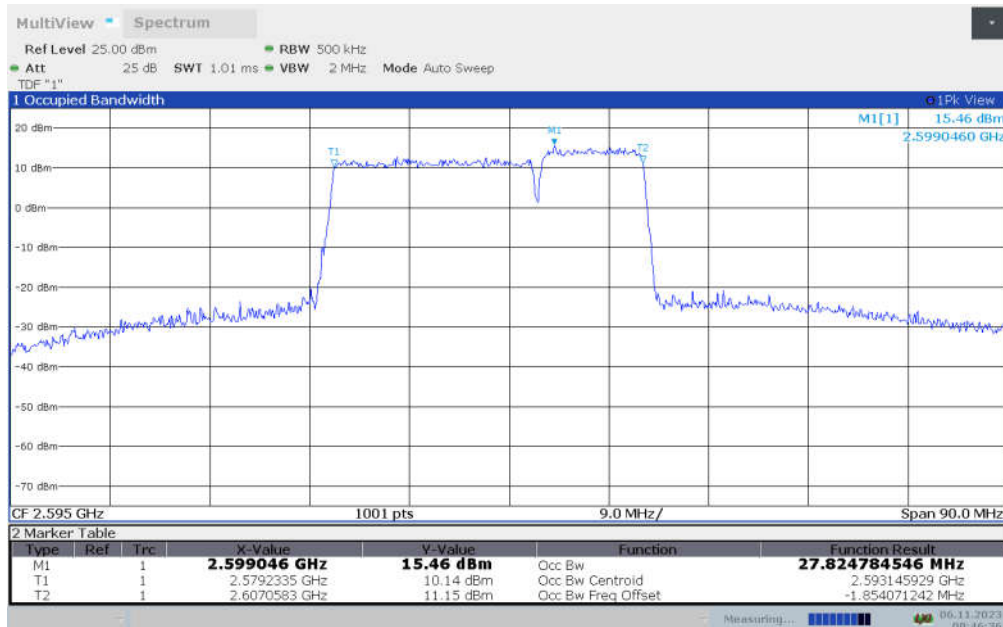
**LTE CA\_41C, 20MHz+10MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	27.853	27.825

**LTE CA\_41C , 20MHz+10MHz Bandwidth, QPSK (99% BW)**



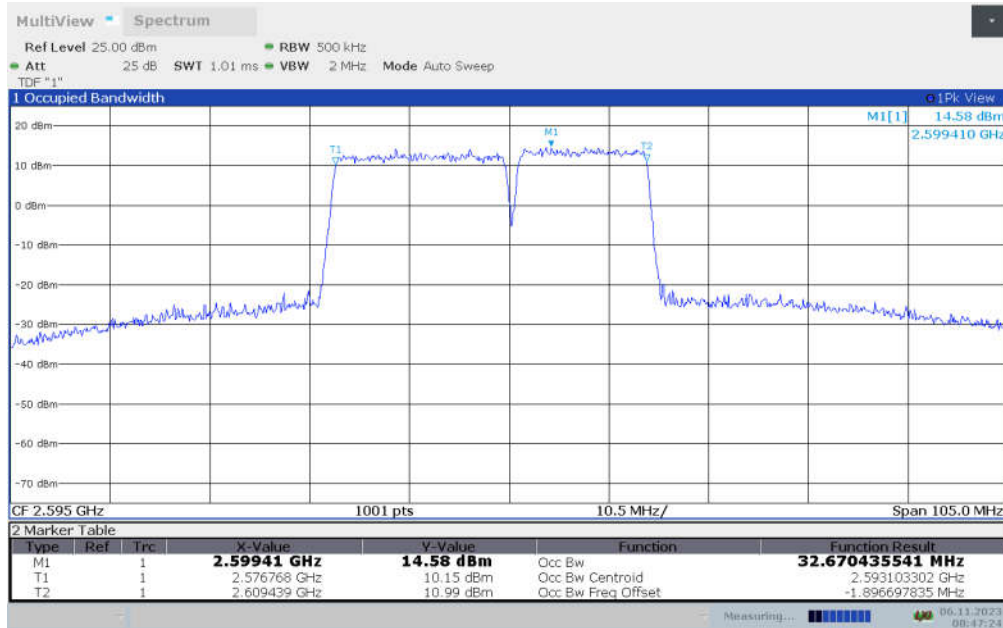
**LTE CA\_41C , 20MHz+10MHz Bandwidth, 16QAM (99% BW)**



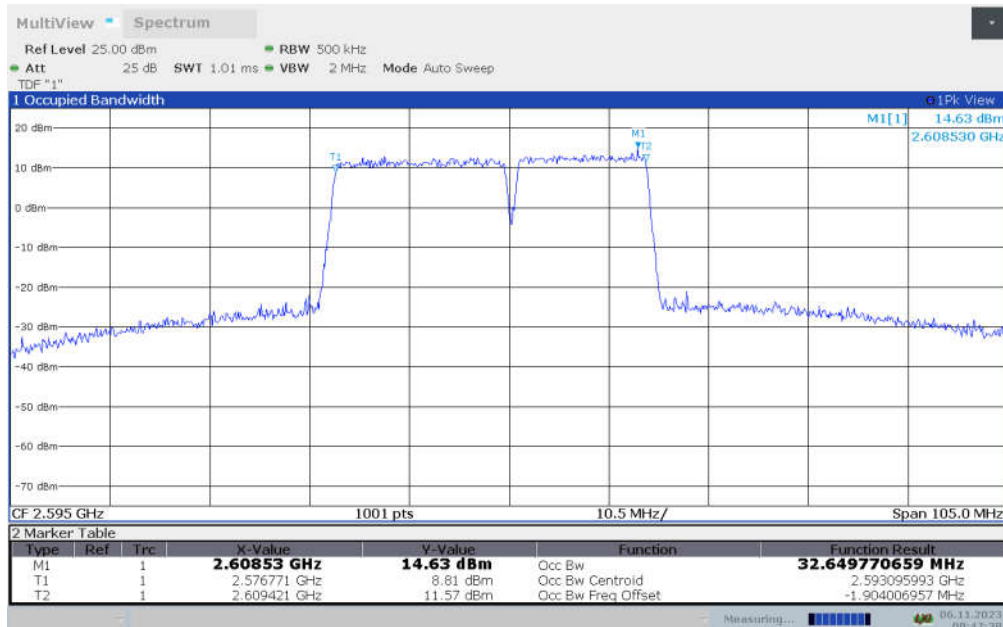
**LTE CA\_41C, 20MHz+15MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	32.670	32.650

**LTE CA\_41C , 20MHz+15MHz Bandwidth, QPSK (99% BW)**



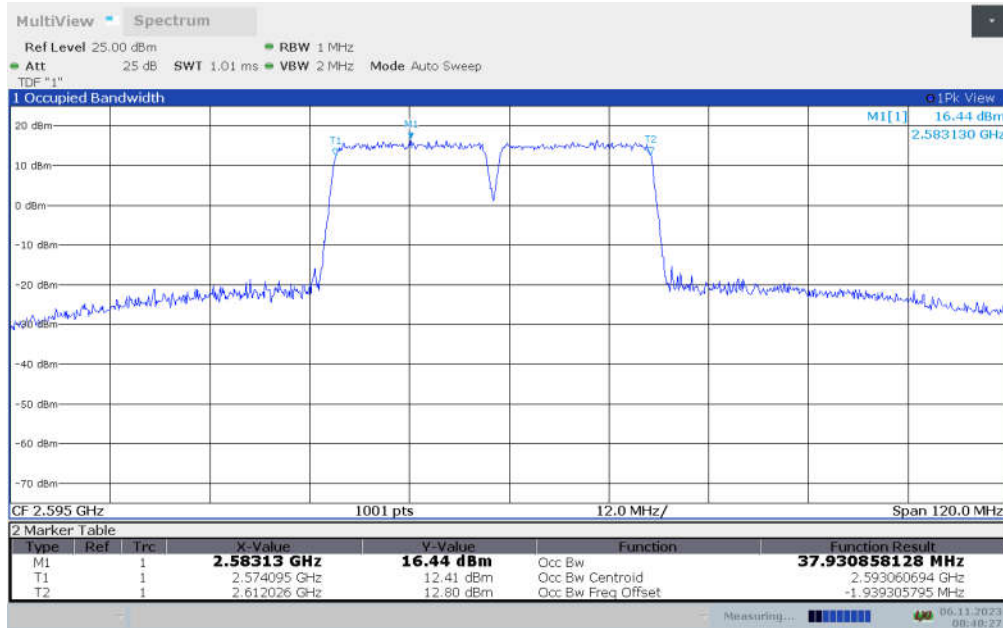
**LTE CA\_41C , 20MHz+15MHz Bandwidth, 16QAM (99% BW)**



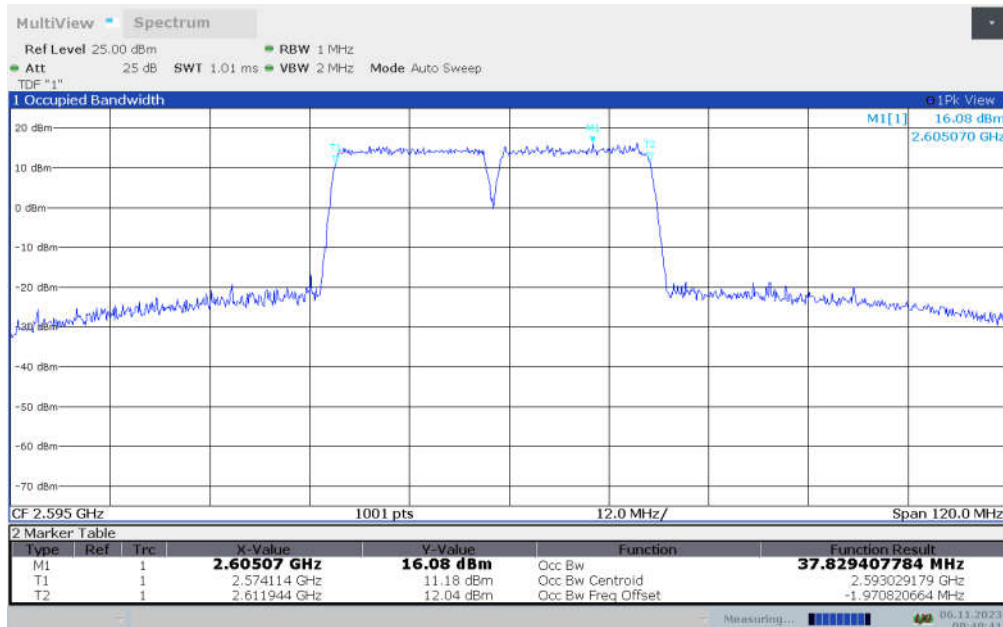
**LTE CA\_41C, 20MHz+20MHz(99% BW)**

Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	
	QPSK	16QAM
2595.0	37.931	37.829

**LTE CA\_41C , 20MHz+20MHz Bandwidth, QPSK (99% BW)**



**LTE CA\_41C , 20MHz+20MHz Bandwidth, 16QAM (99% BW)**



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

## **A.5 EMISSION BANDWIDTH**

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

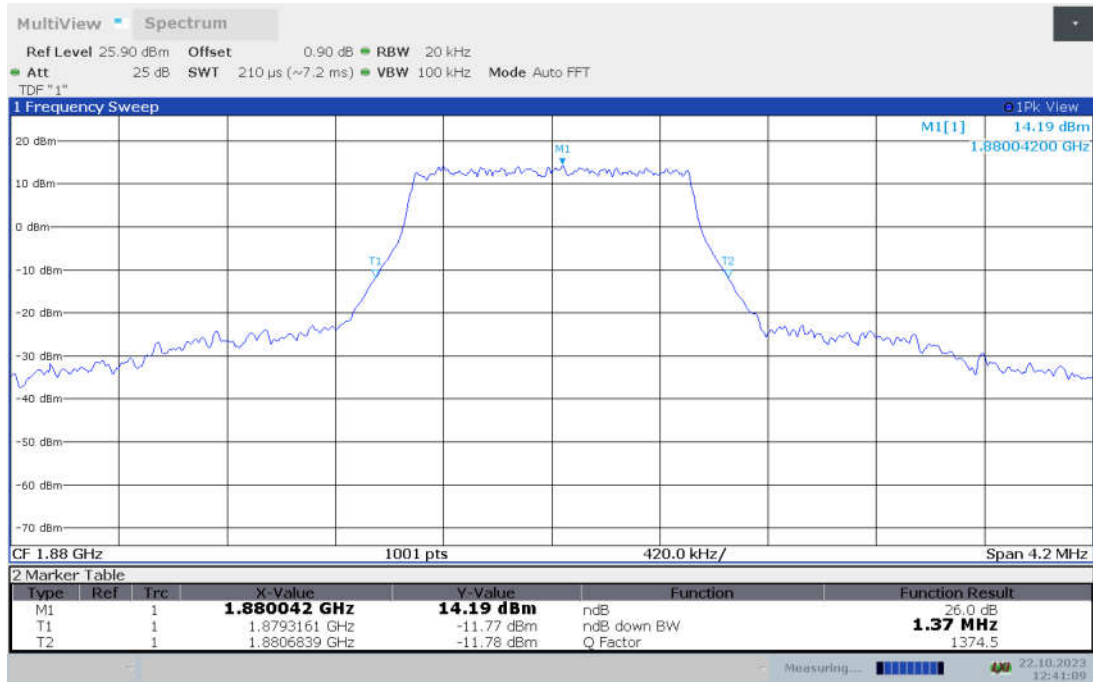
The measurement method is from ANSI C63.26:

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

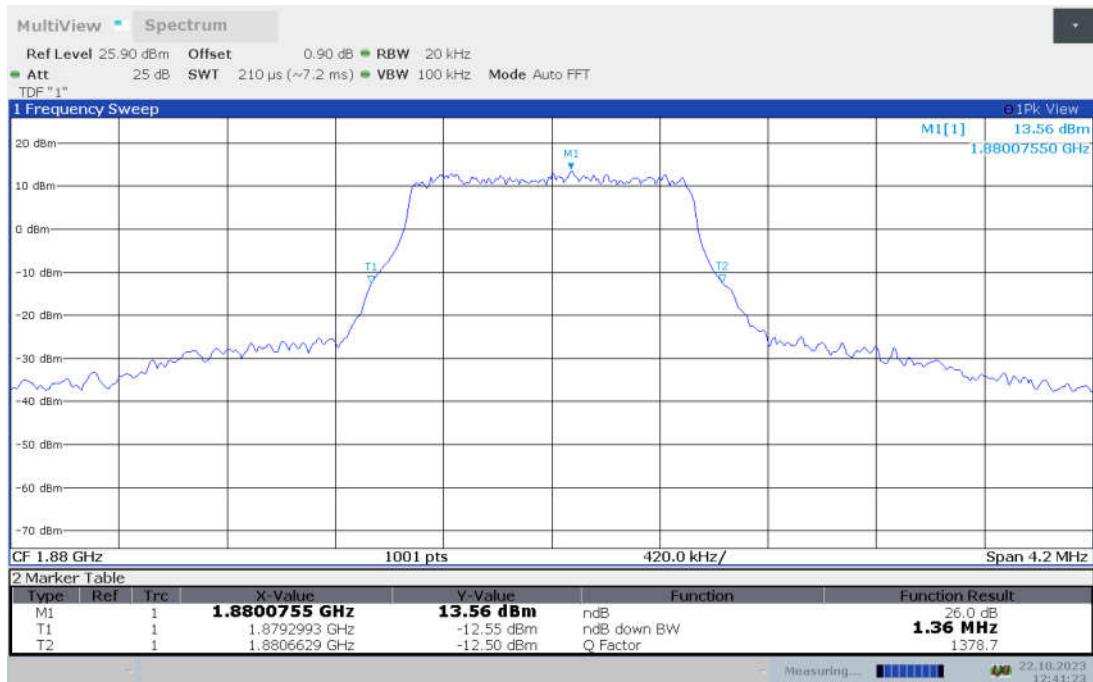
**LTE band 2,1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1880	1.368	1.364

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



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

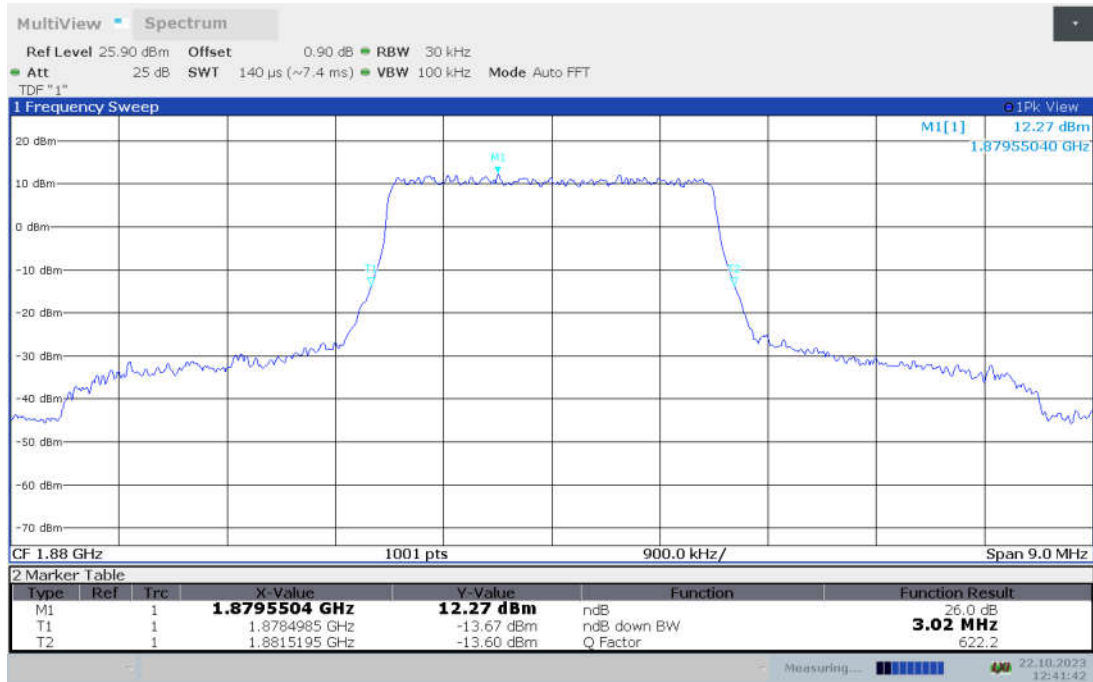




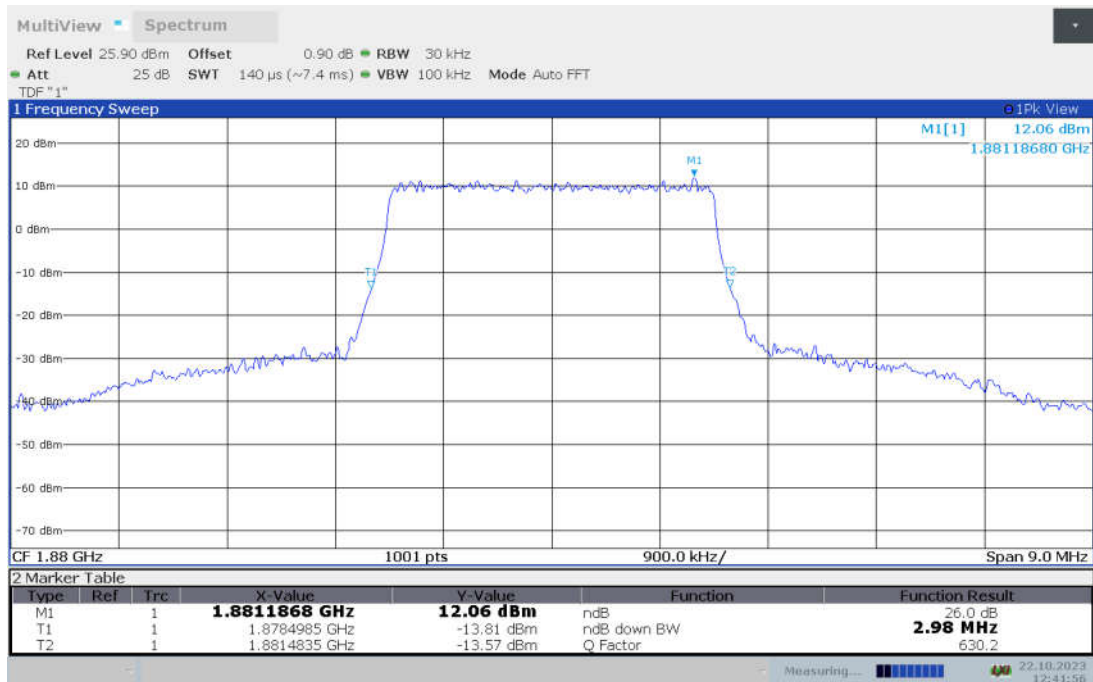
**LTE band 2,3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1880	3.021	2.985

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



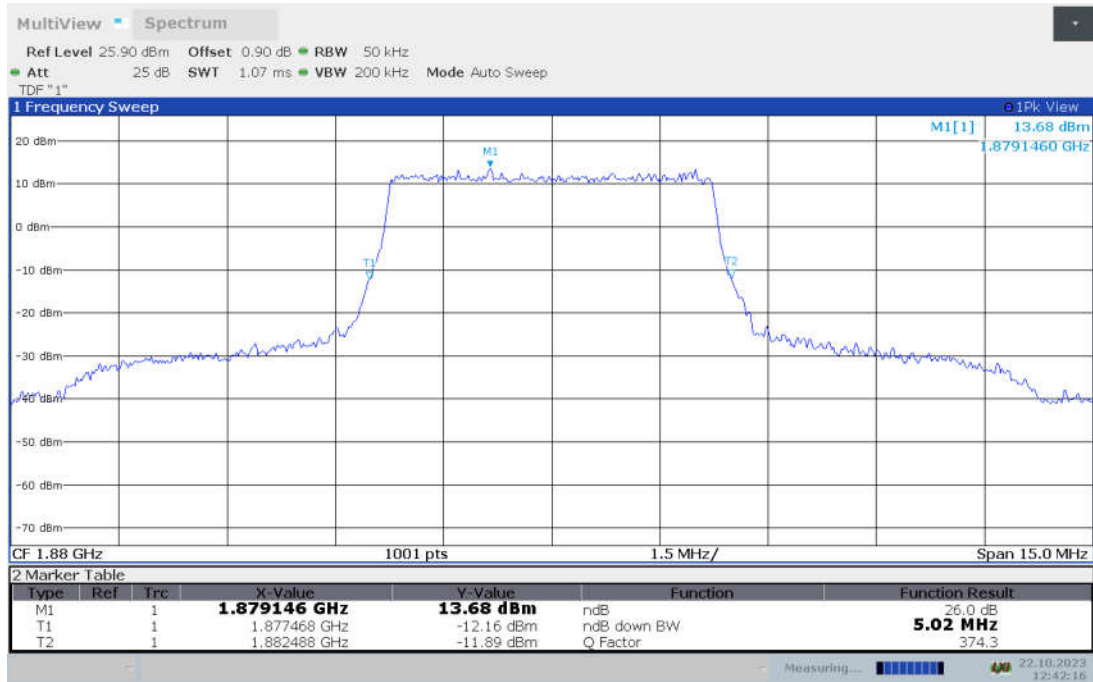
**LTE band 2 , 3MHz Bandwidth, MID, 16QAM (-26dBc BW)**



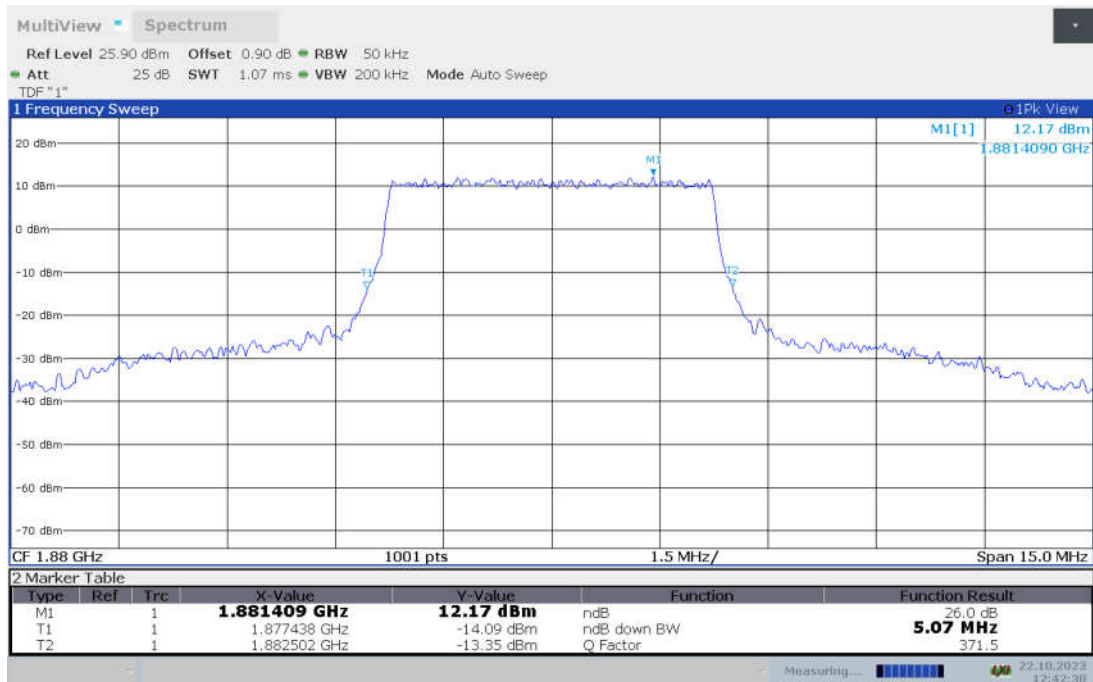
**LTE band 2,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1880	5.020	5.065

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



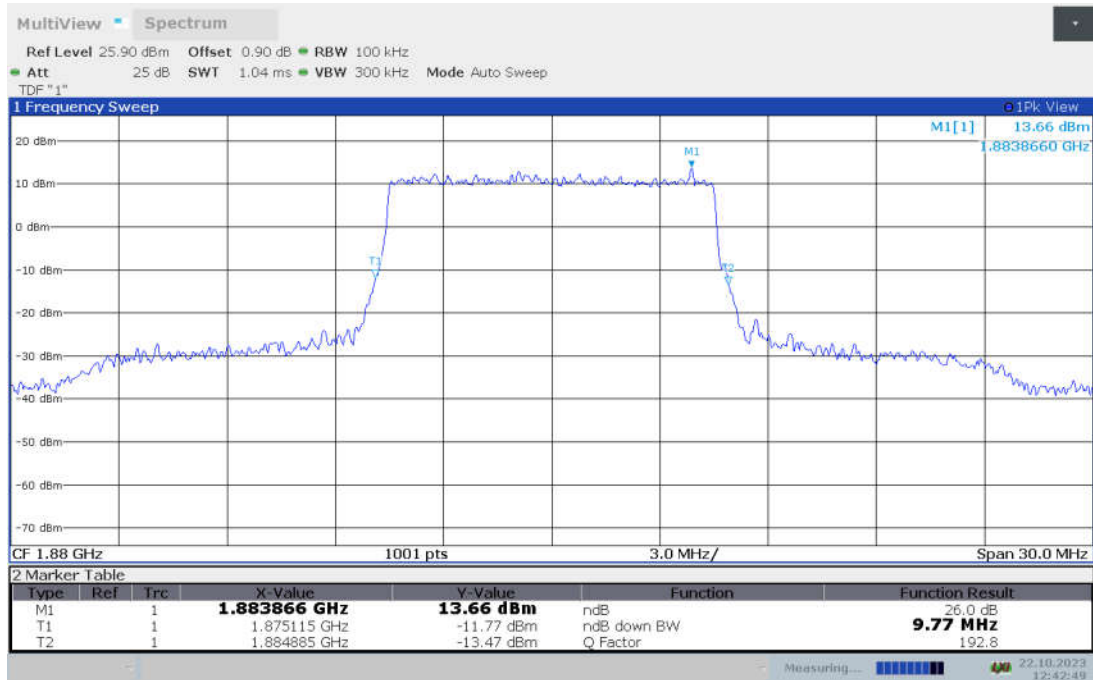
**LTE band 2 , 5MHz Bandwidth, MID, 16QAM (-26dBc BW)**



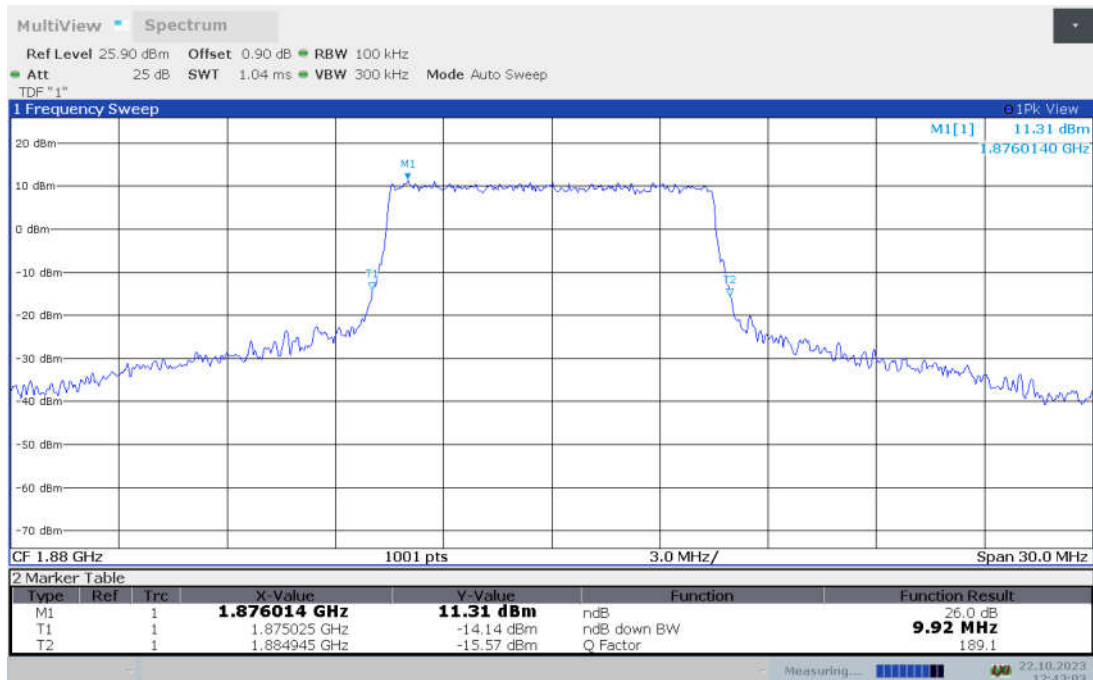
**LTE band 2,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1880	9.770	9.920

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



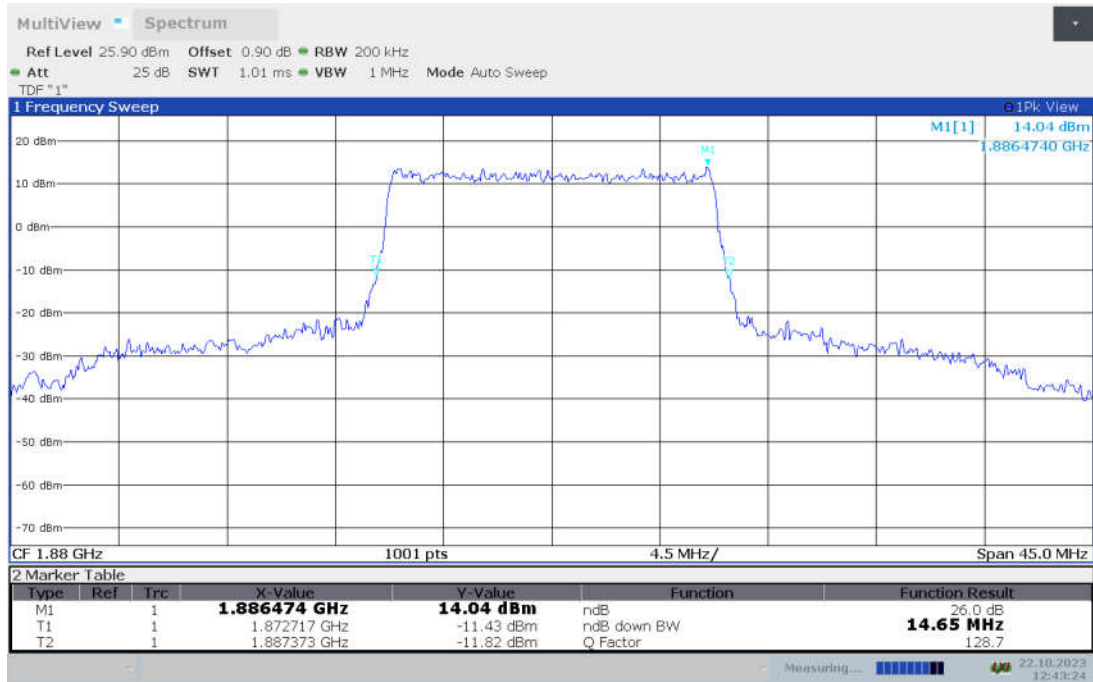
**LTE band 2 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



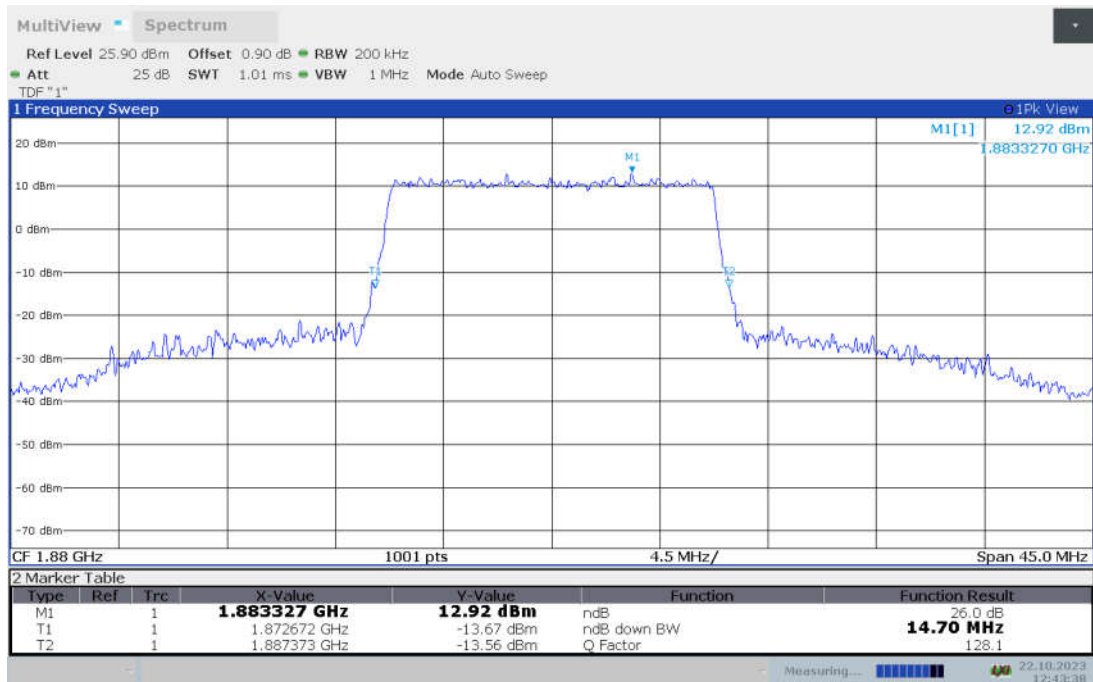
**LTE band 2,15MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1880	14.655	14.700

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



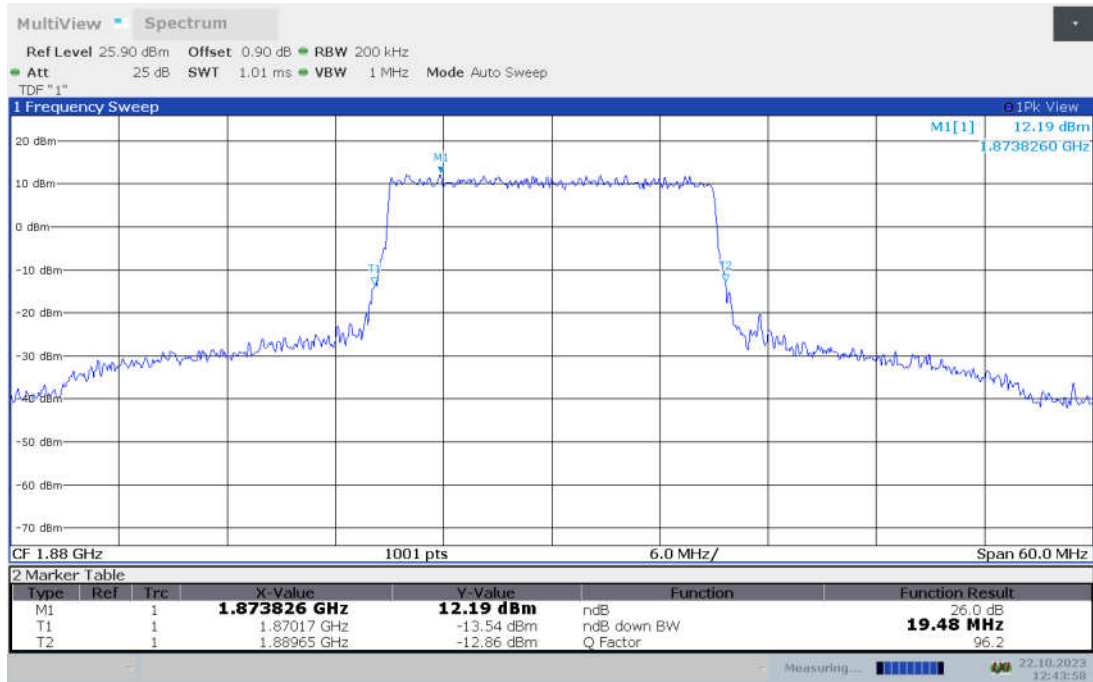
**LTE band 2 , 15MHz Bandwidth, MID, 16QAM (-26dBc BW)**



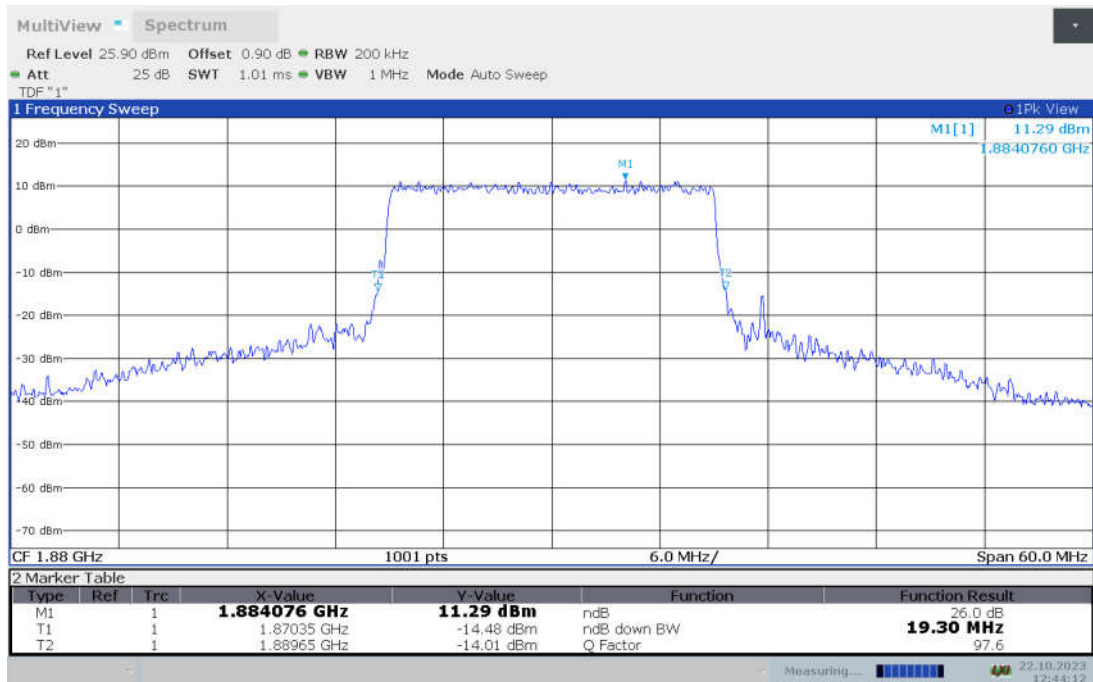
**LTE band 2,20MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1880	19.481	19.301

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



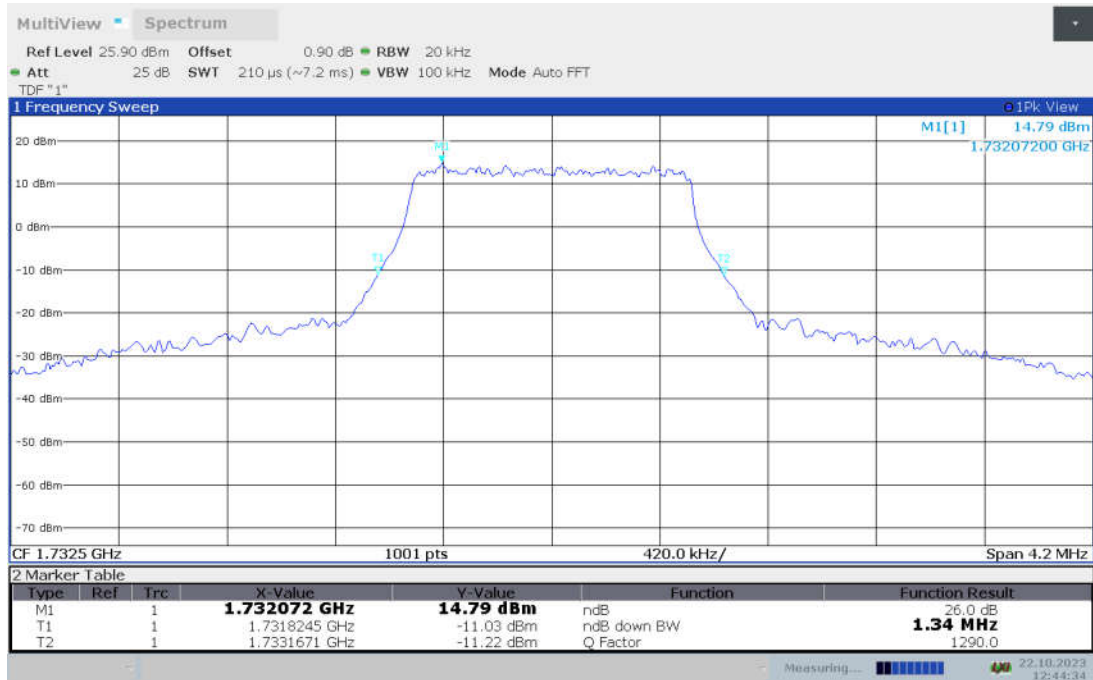
**LTE band 2 , 20MHz Bandwidth, MID, 16QAM (-26dBc BW)**



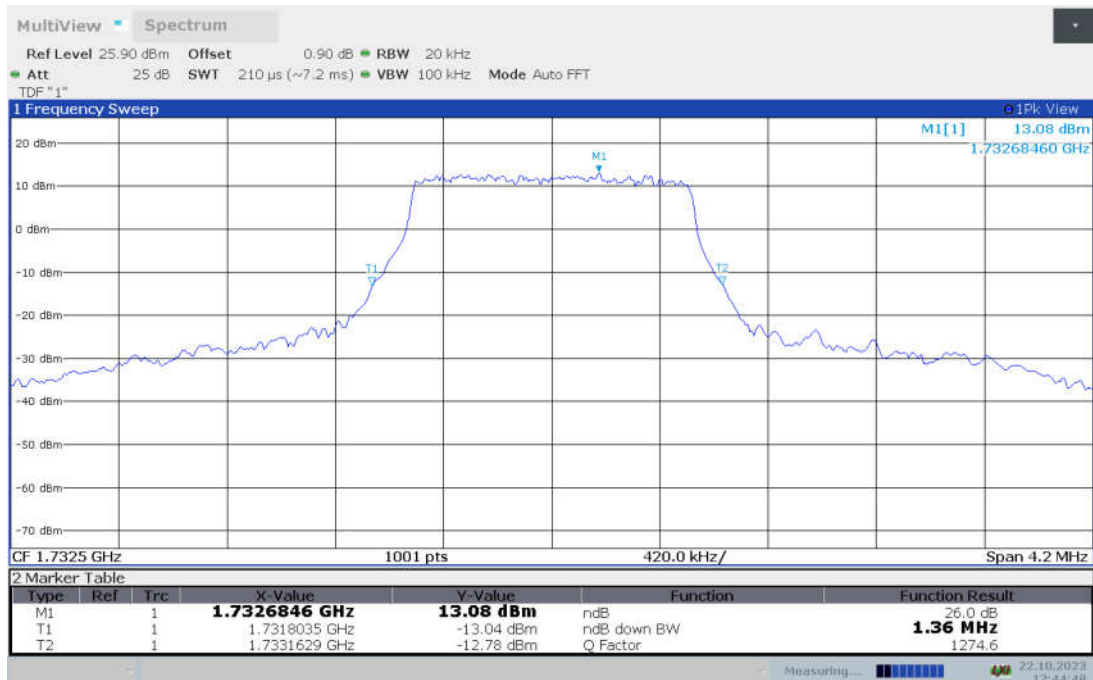
**LTE band 4,1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1732.5	1.343	1.359

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



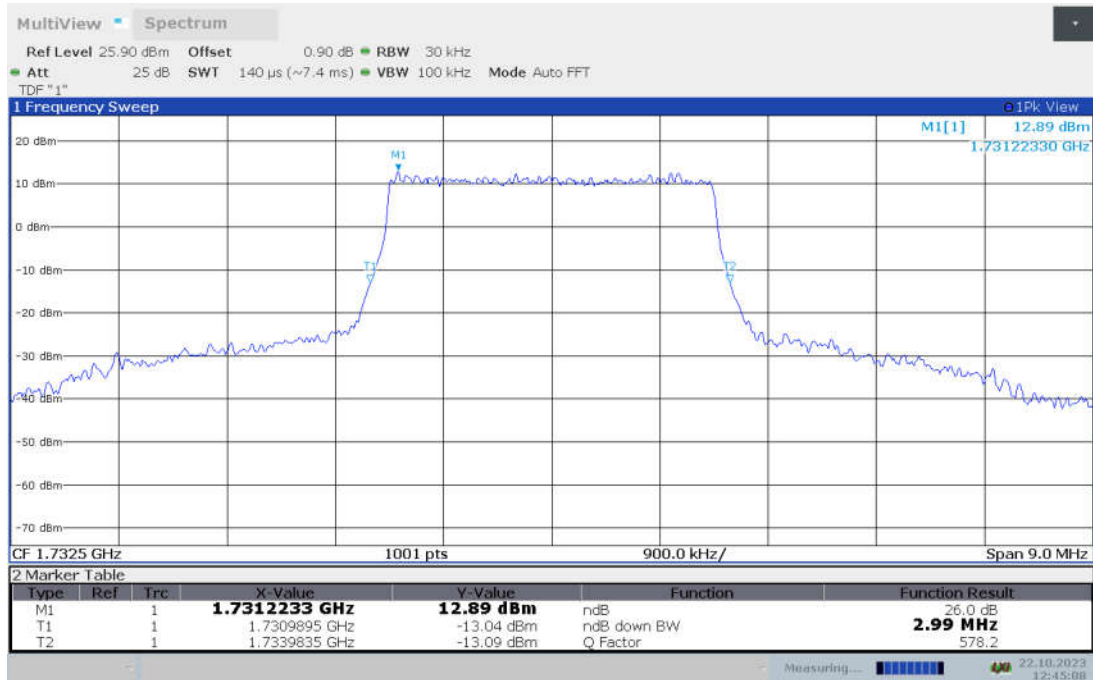
**LTE band 4 , 1.4MHz Bandwidth, MID, 16QAM (-26dBc BW)**



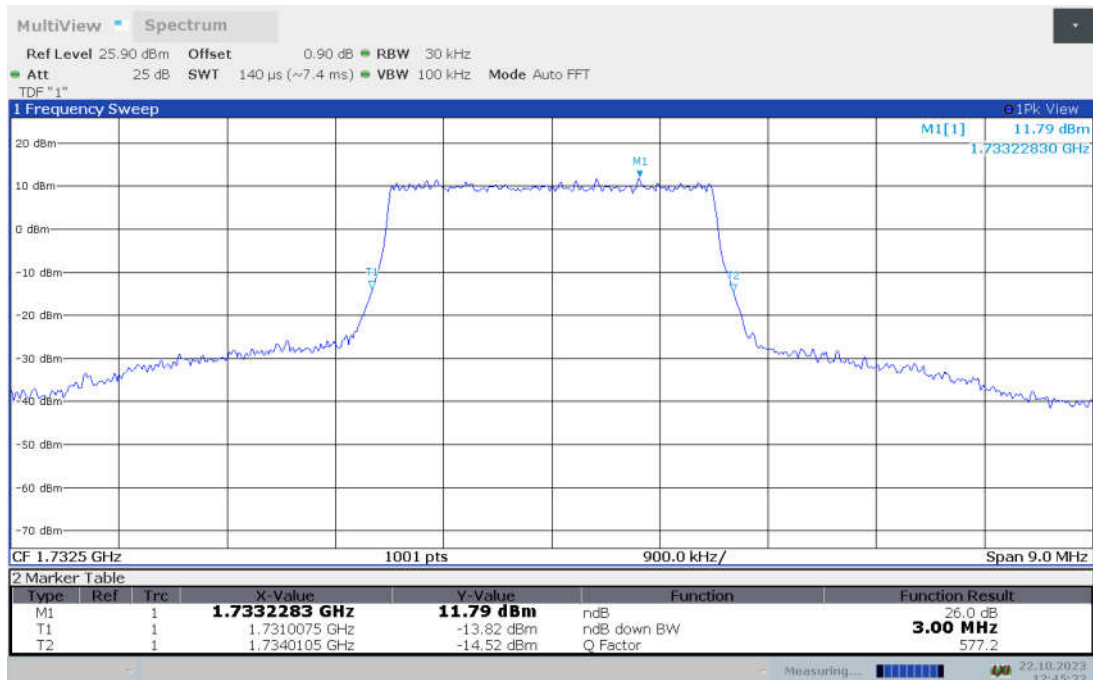
**LTE band 4,3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1732.5	2.994	3.003

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



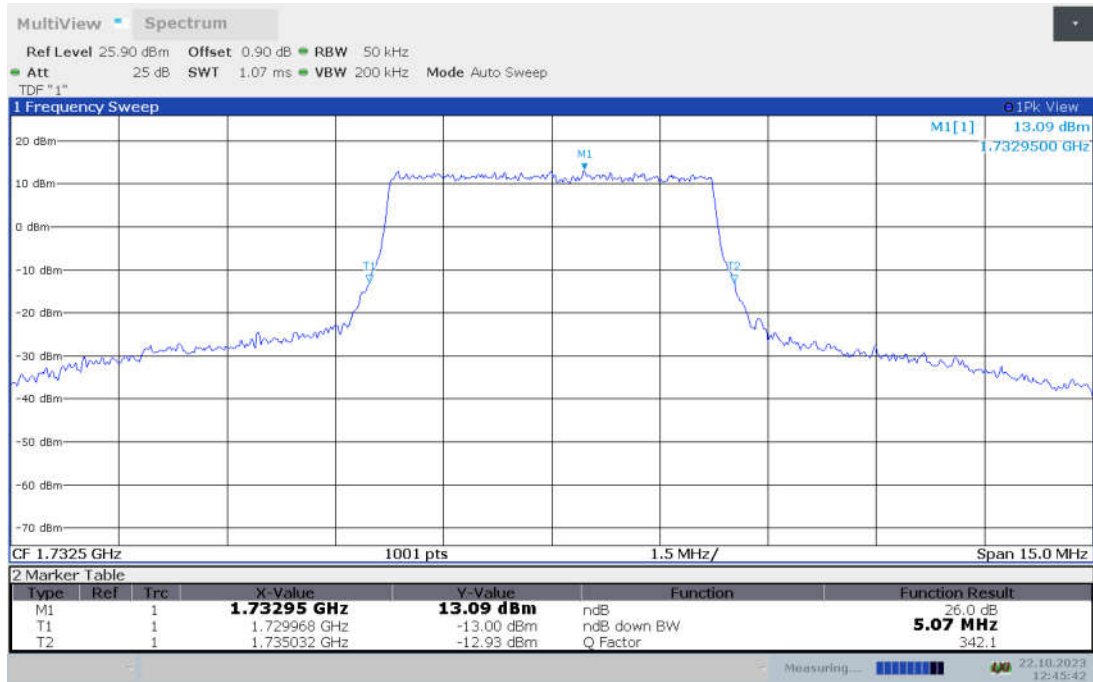
**LTE band 4 , 3MHz Bandwidth, MID, 16QAM (-26dBc BW)**



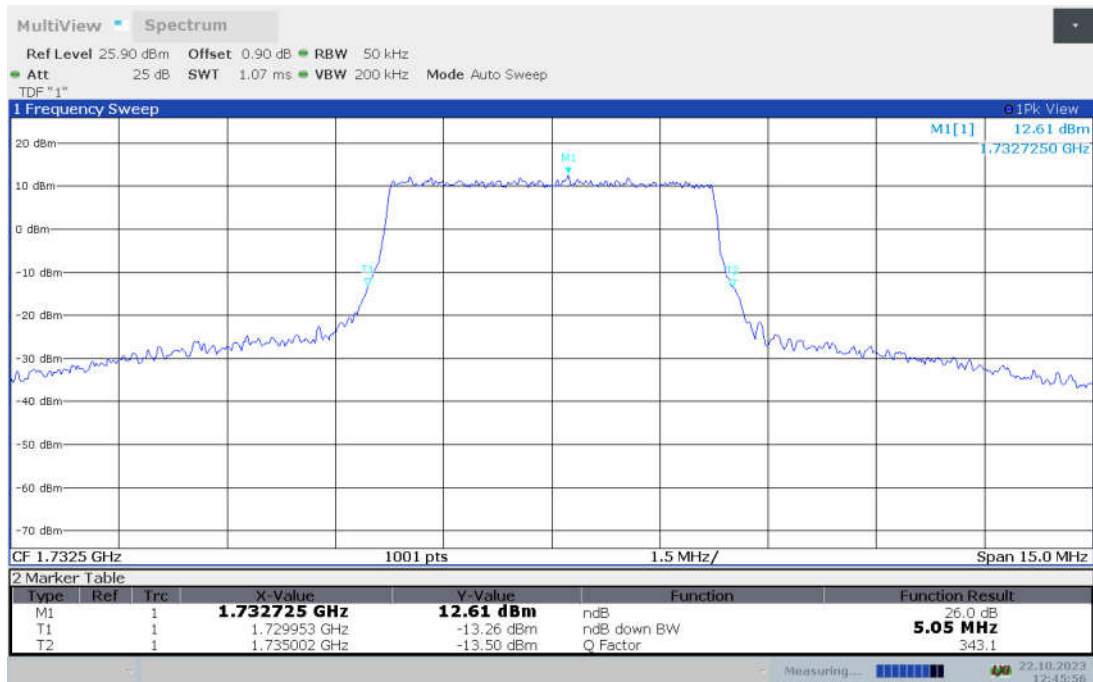
**LTE band 4,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1732.5	5.065	5.050

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



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

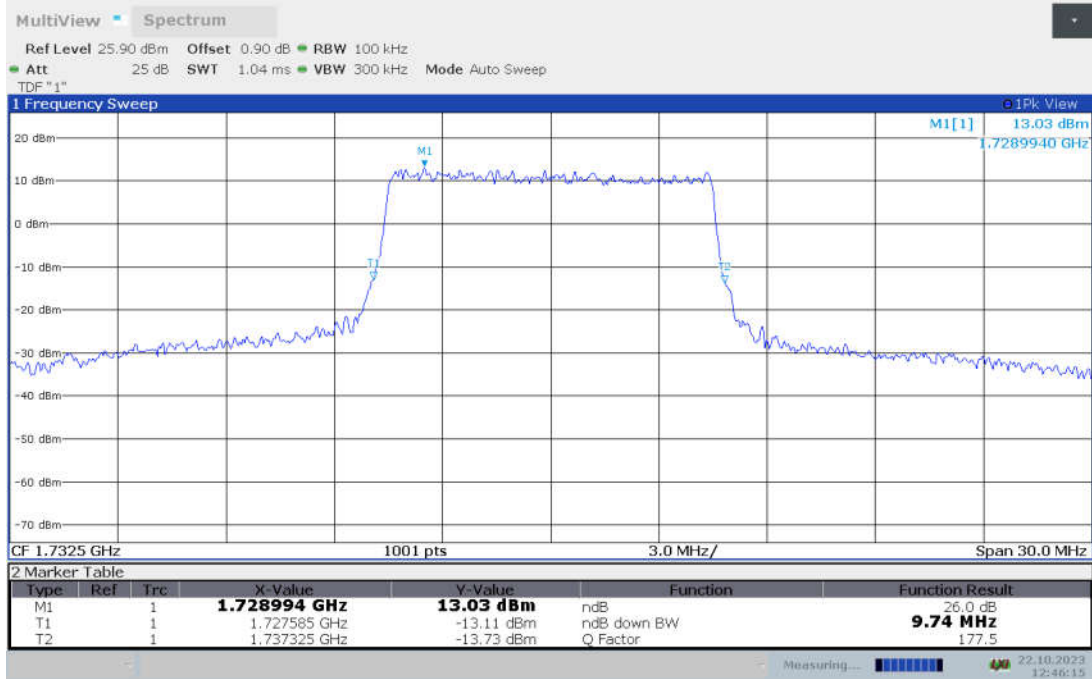




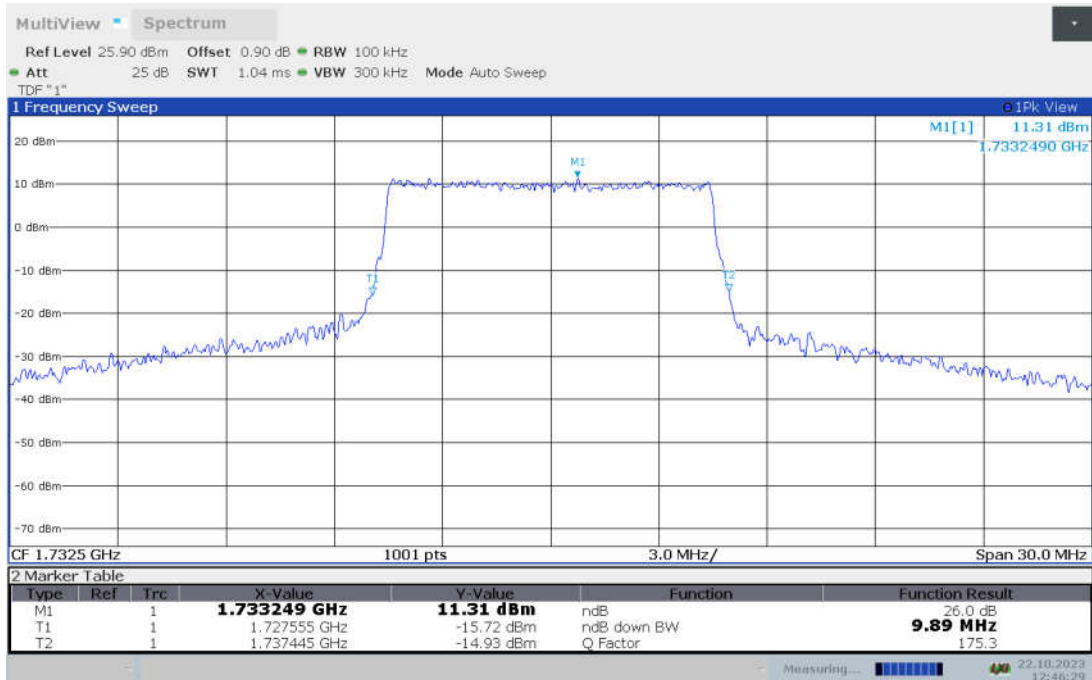
**LTE band 4,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1732.5	9.740	9.890

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



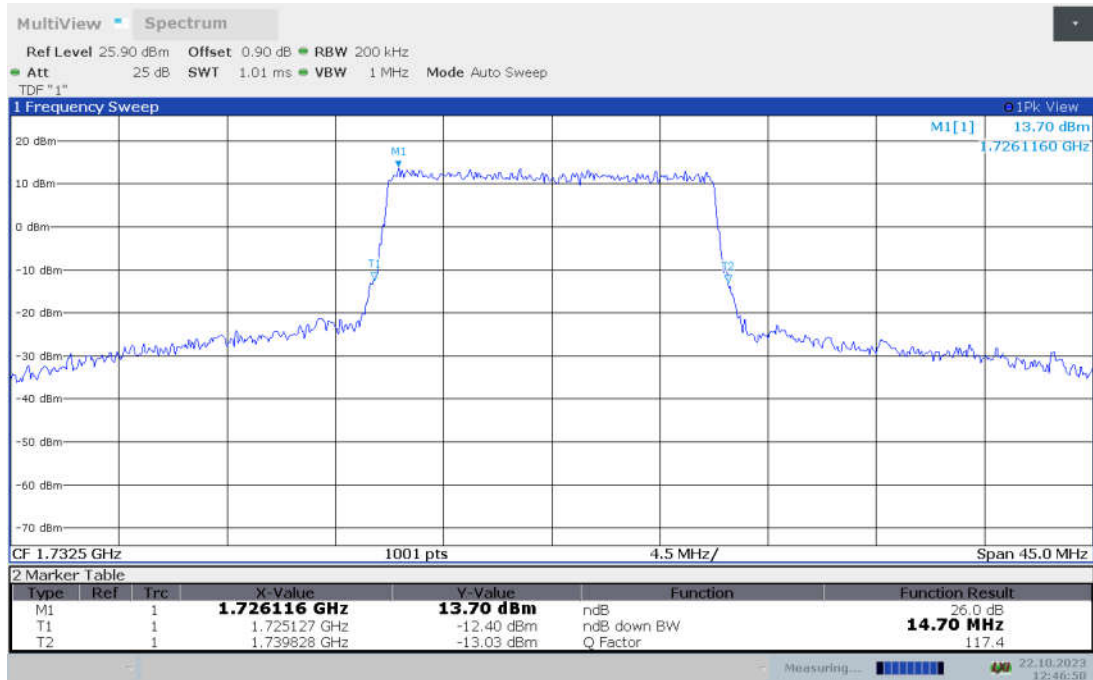
**LTE band 4 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



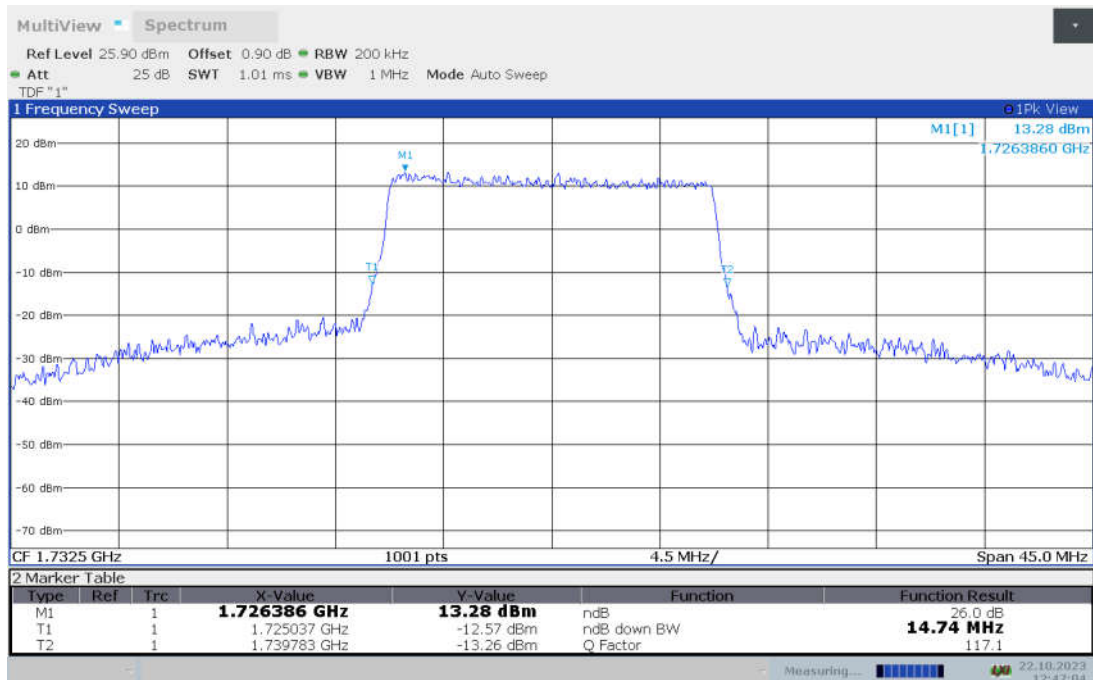
**LTE band 4,15MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1732.5	14.700	14.745

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



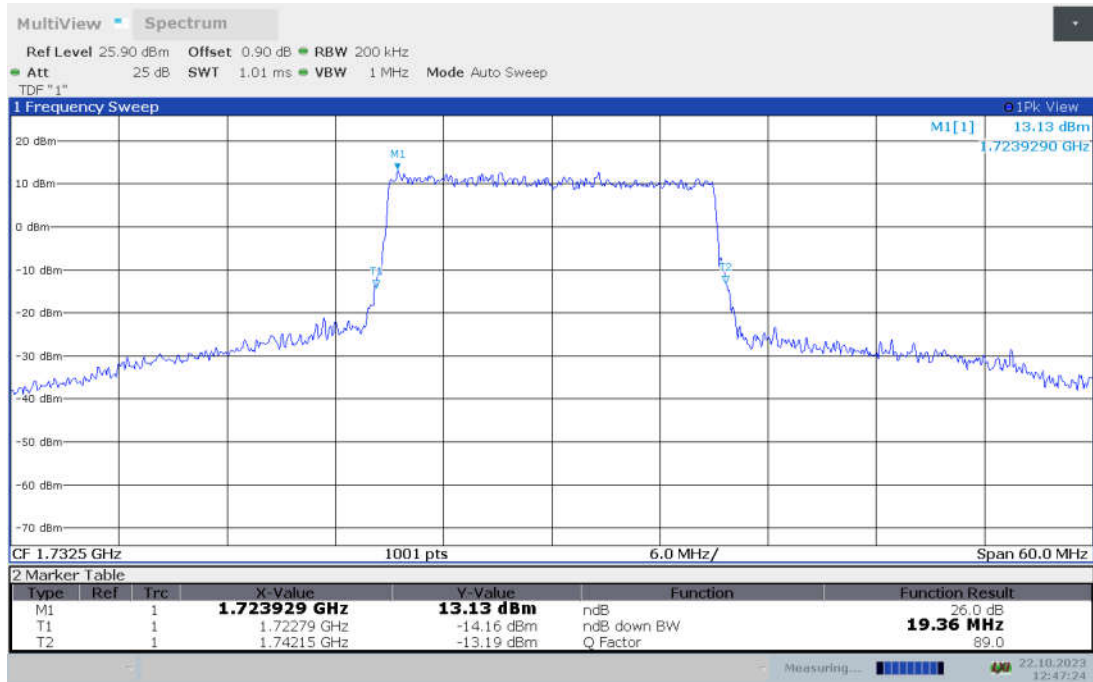
**LTE band 4 , 15MHz Bandwidth, MID, 16QAM (-26dBc BW)**



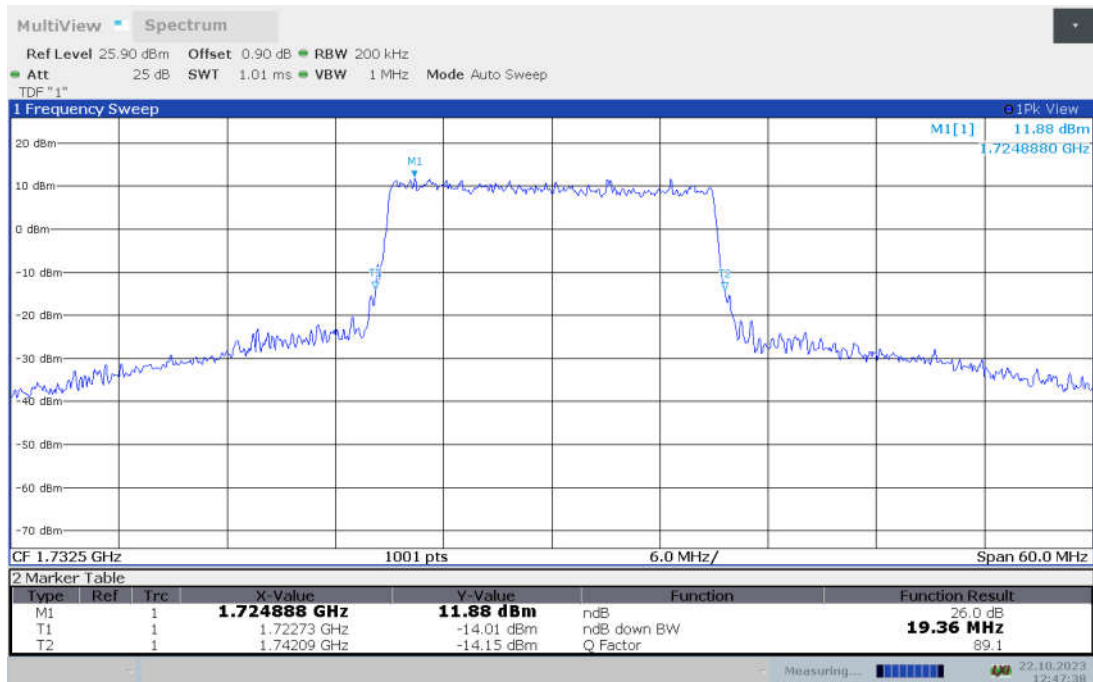
**LTE band 4,20MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
1732.5	19.361	19.361

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



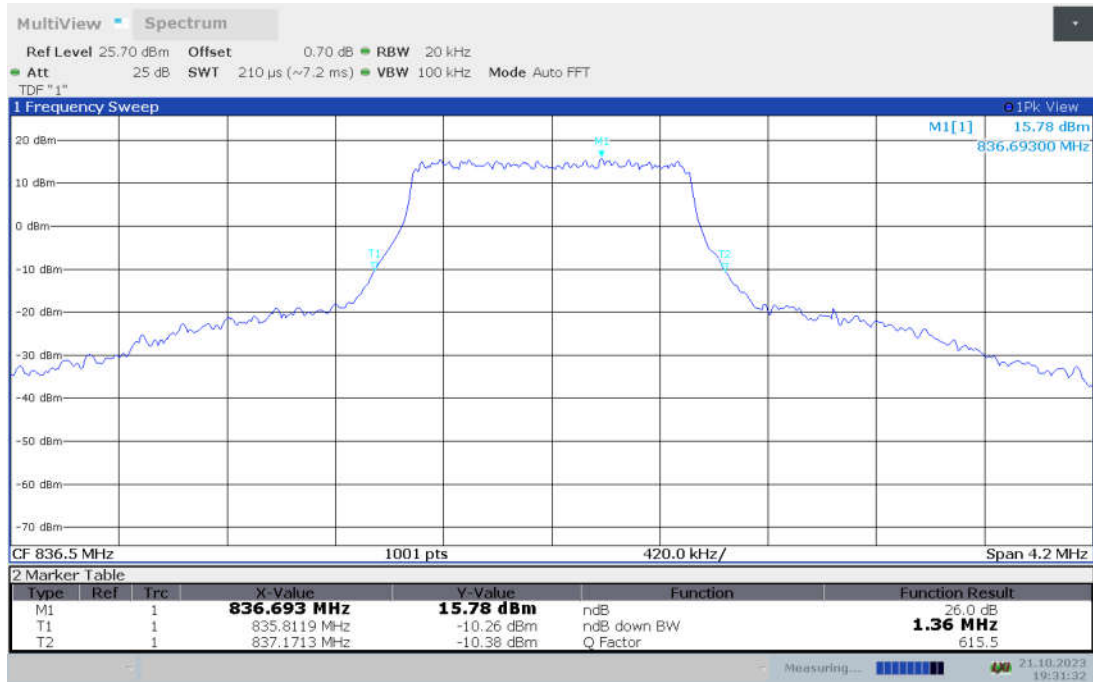
**LTE band 4 , 20MHz Bandwidth, MID, 16QAM (-26dBc BW)**



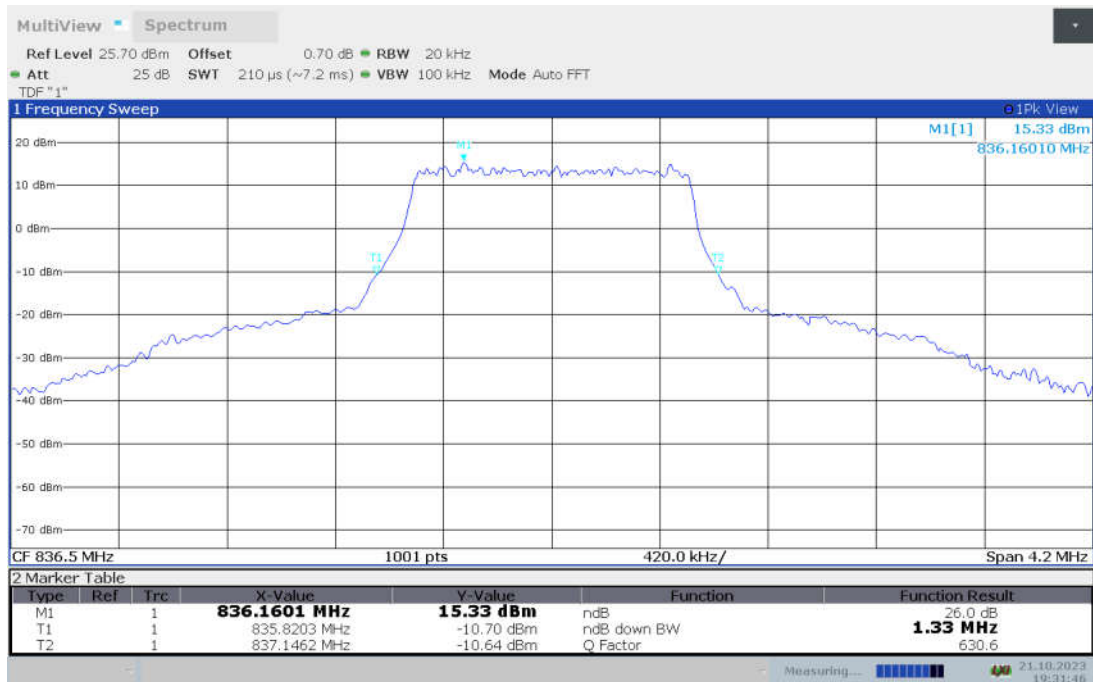
**LTE band 5,1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	1.359	1.326

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



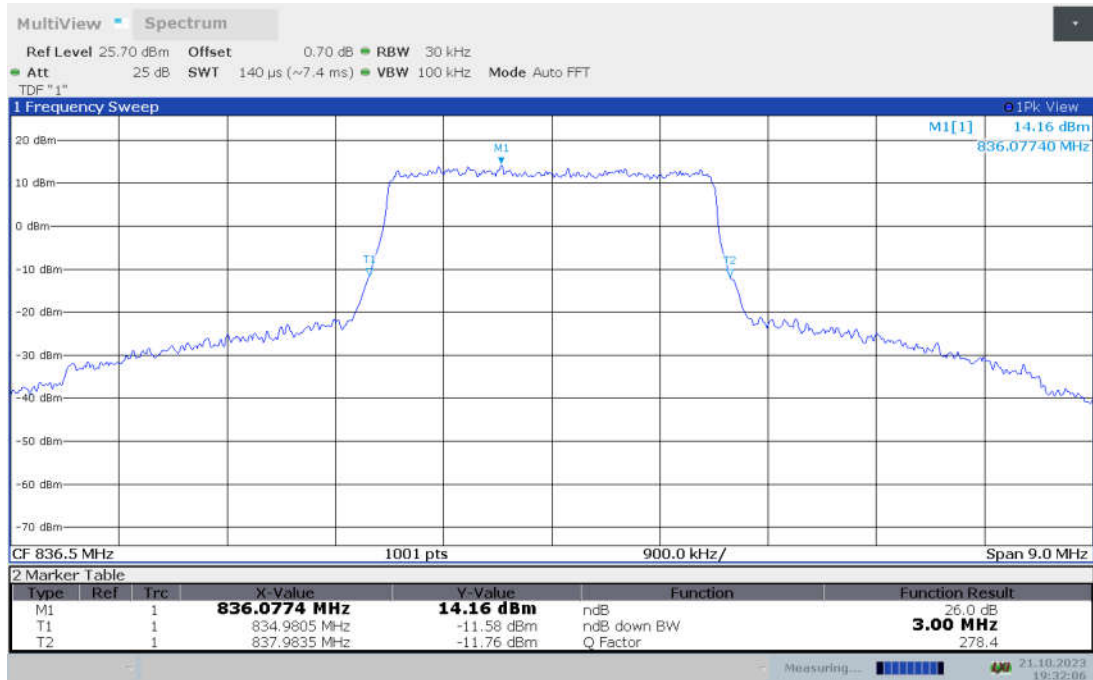
**LTE band 5 , 1.4MHz Bandwidth, MID, 16QAM (-26dBc BW)**



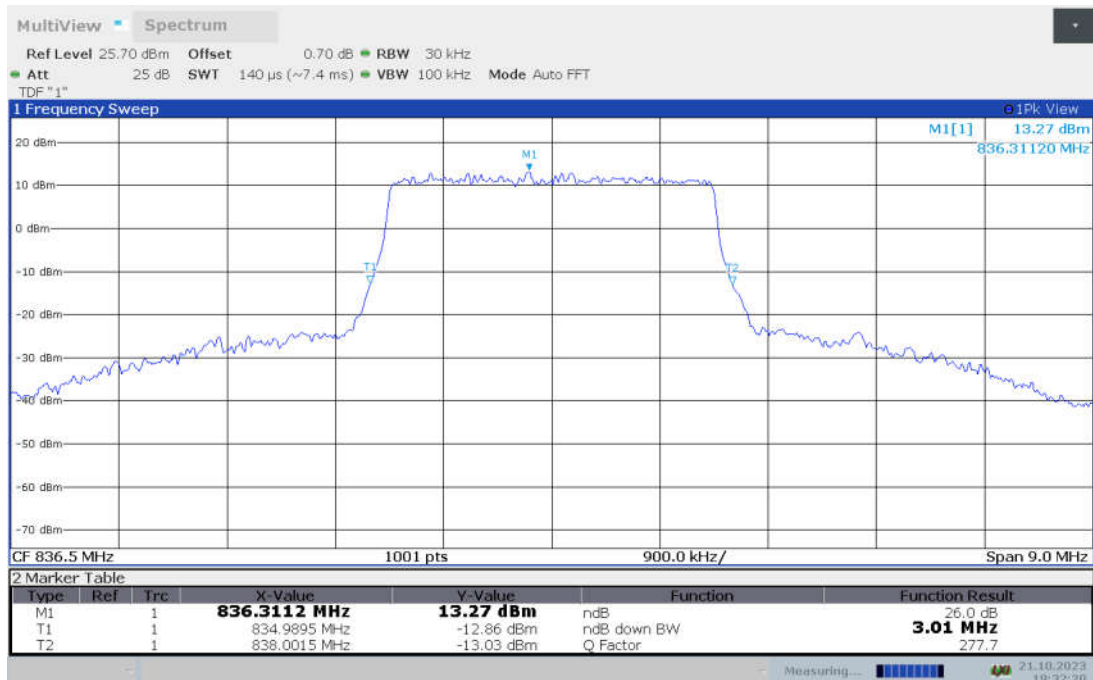
**LTE band 5,3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	3.003	3.012

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



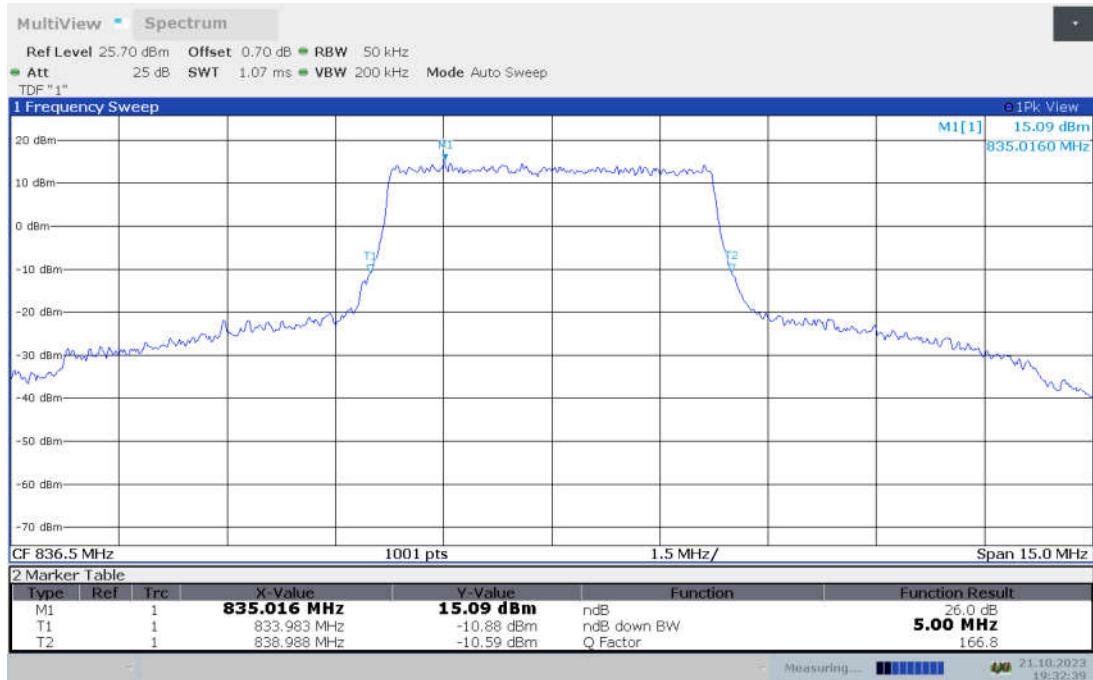
**LTE band 5 , 3MHz Bandwidth, MID, 16QAM (-26dBc BW)**



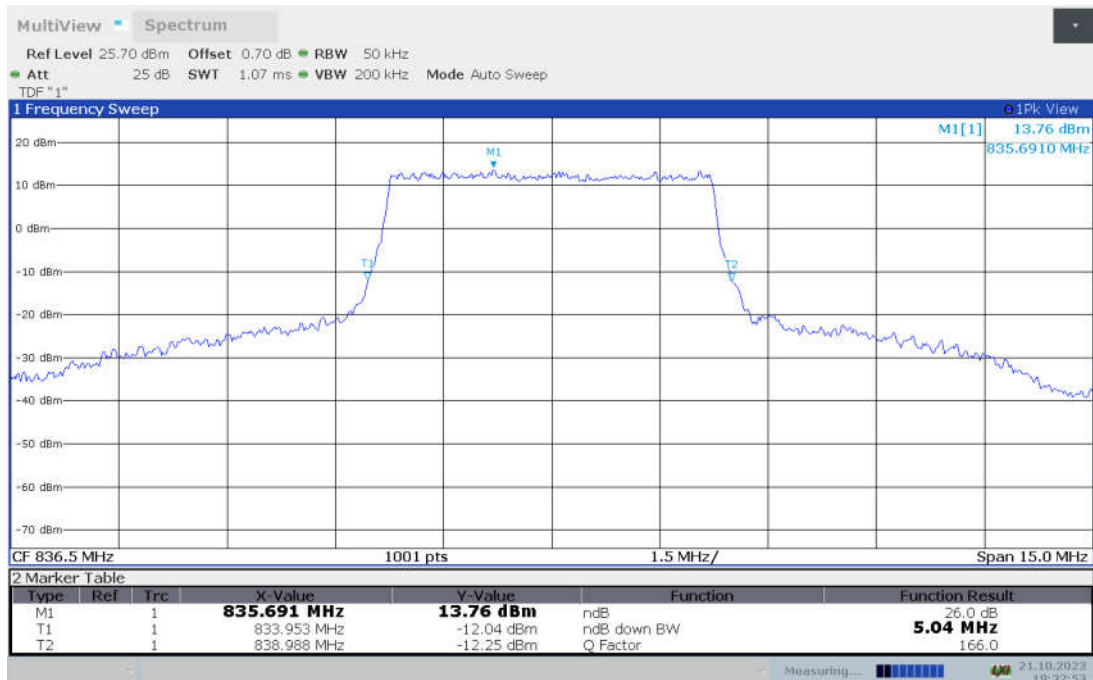
**LTE band 5,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	5.005	5.035

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



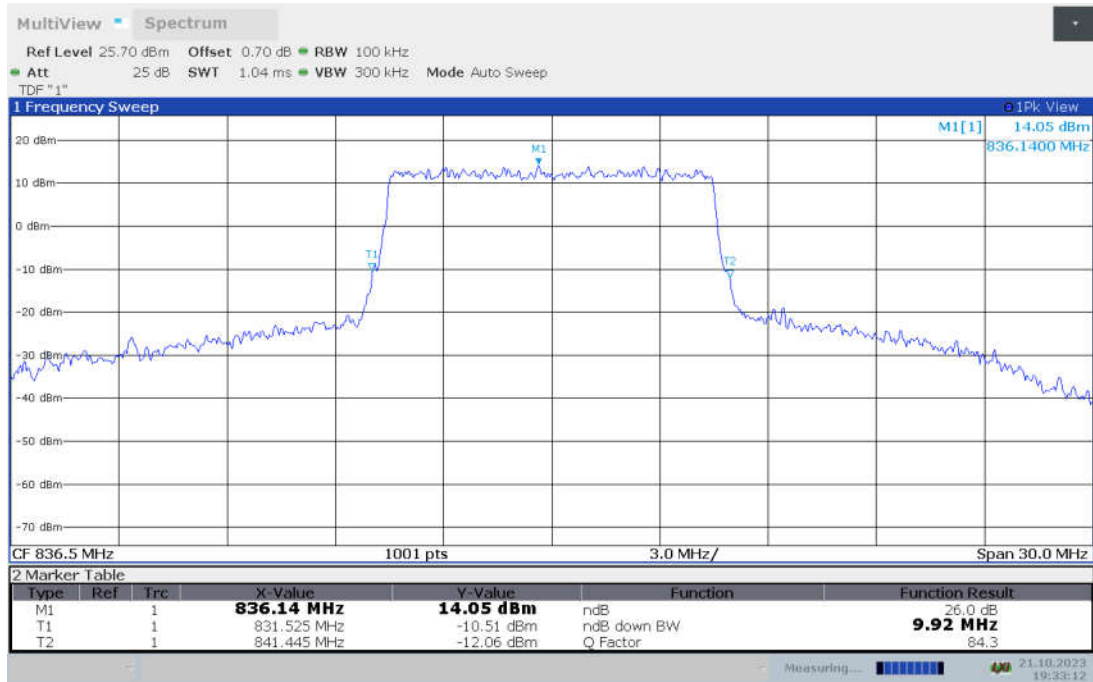
**LTE band 5 , 5MHz Bandwidth, MID, 16QAM (-26dBc BW)**



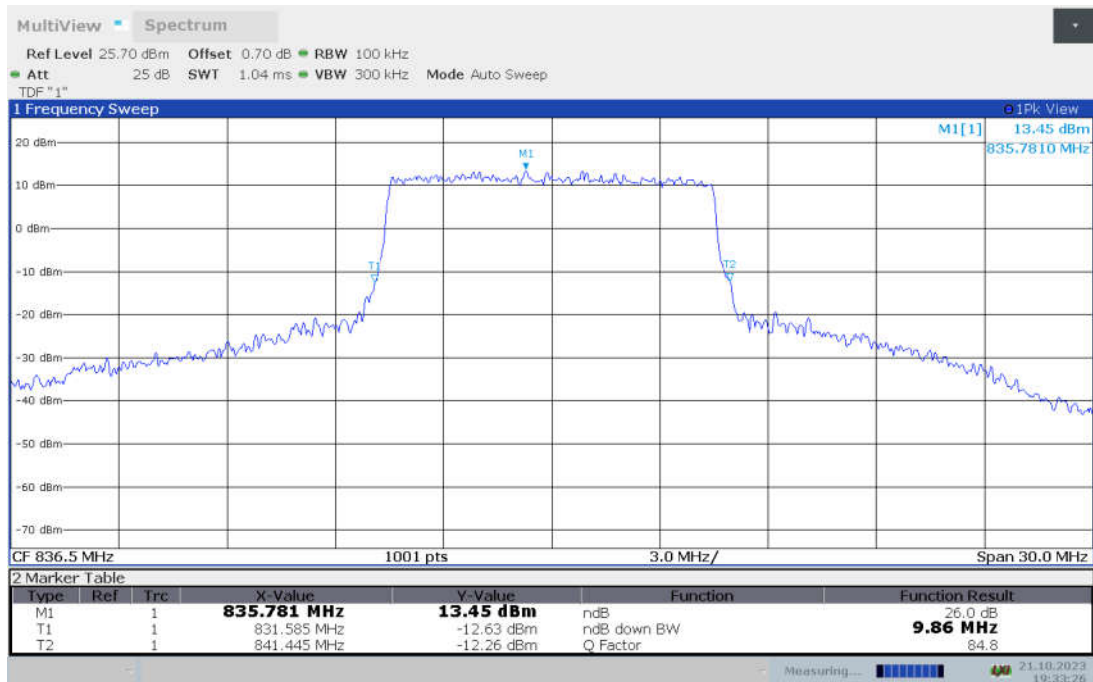
**LTE band 5,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	9.920	9.860

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



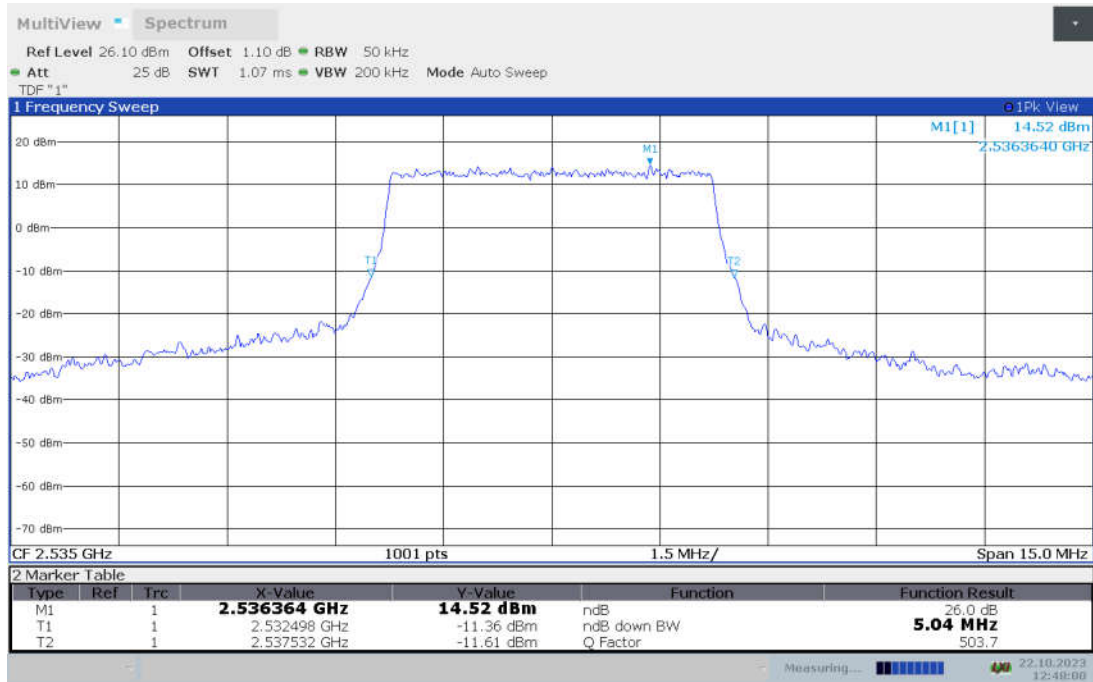
**LTE band 5 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



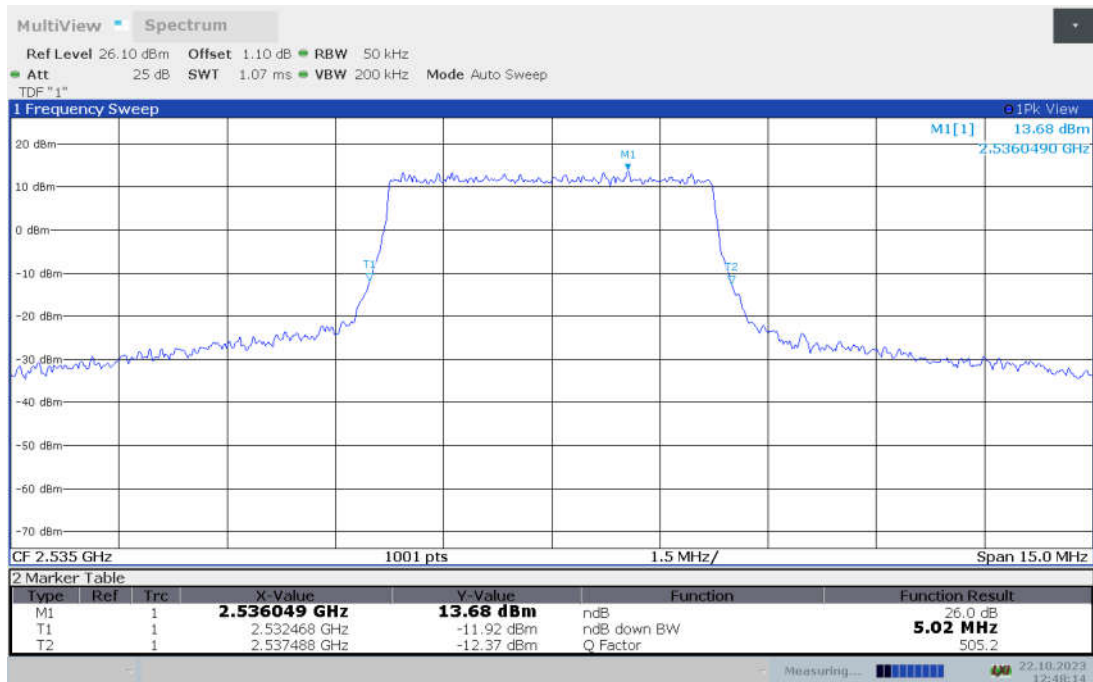
**LTE band 7,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2535	5.035	5.020

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



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

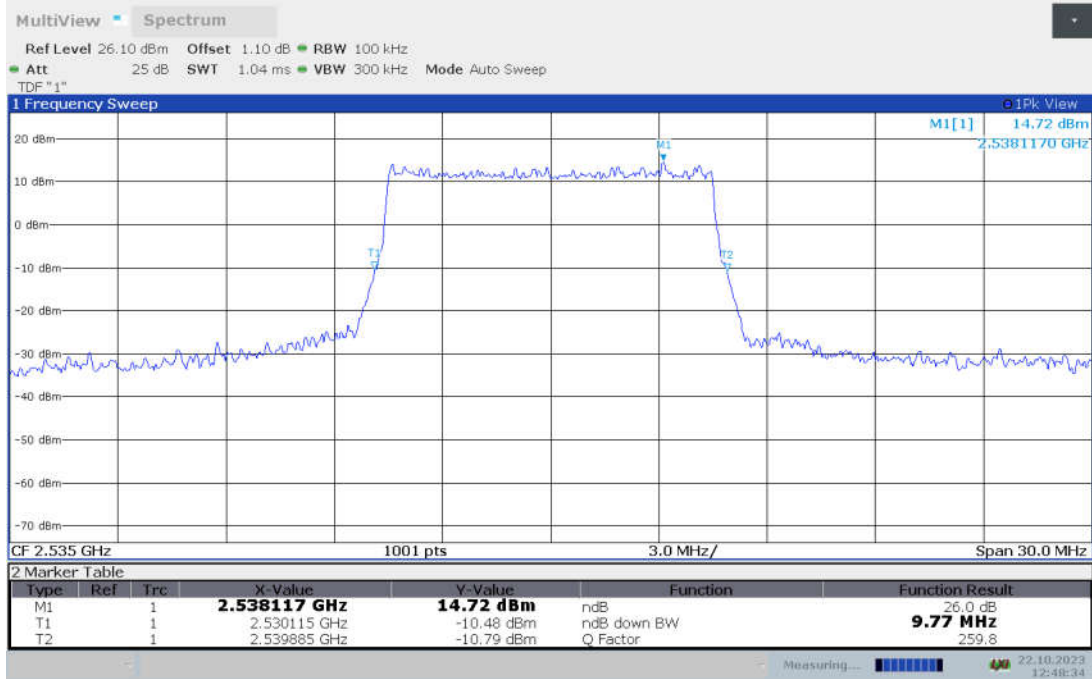




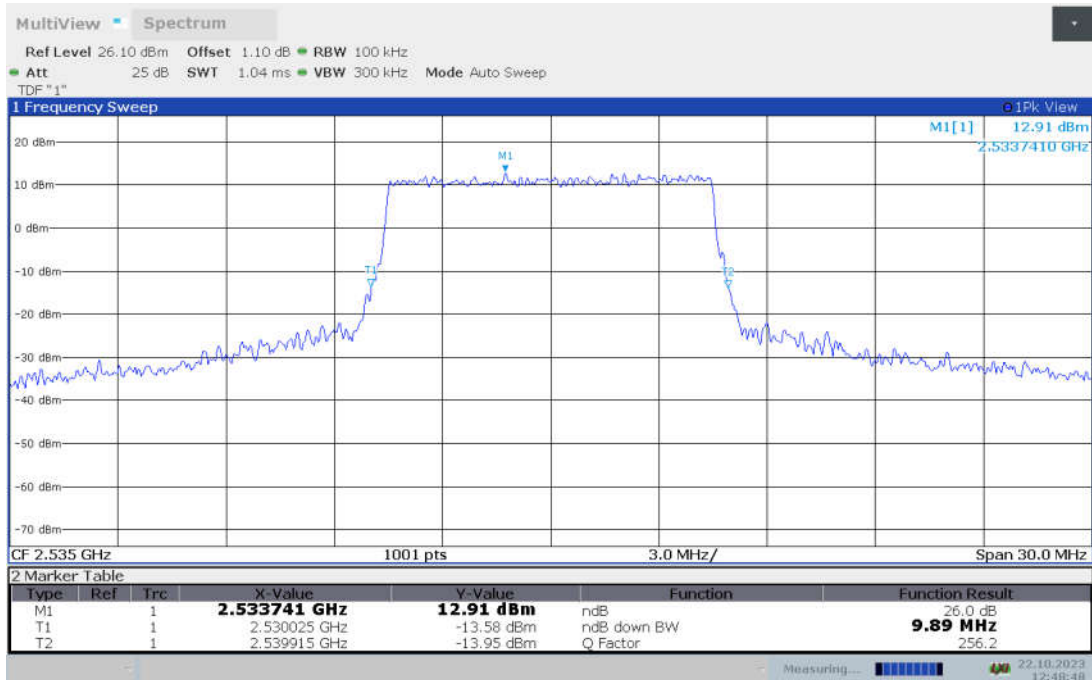
**LTE band 7,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2535	9.770	9.890

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



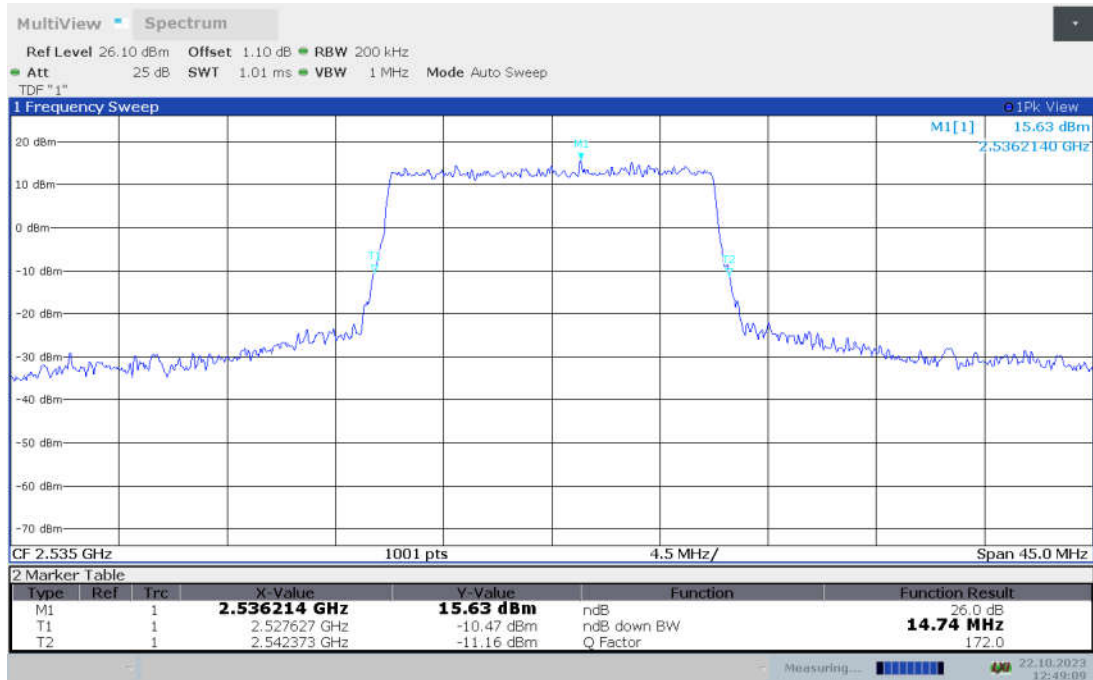
**LTE band 7 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



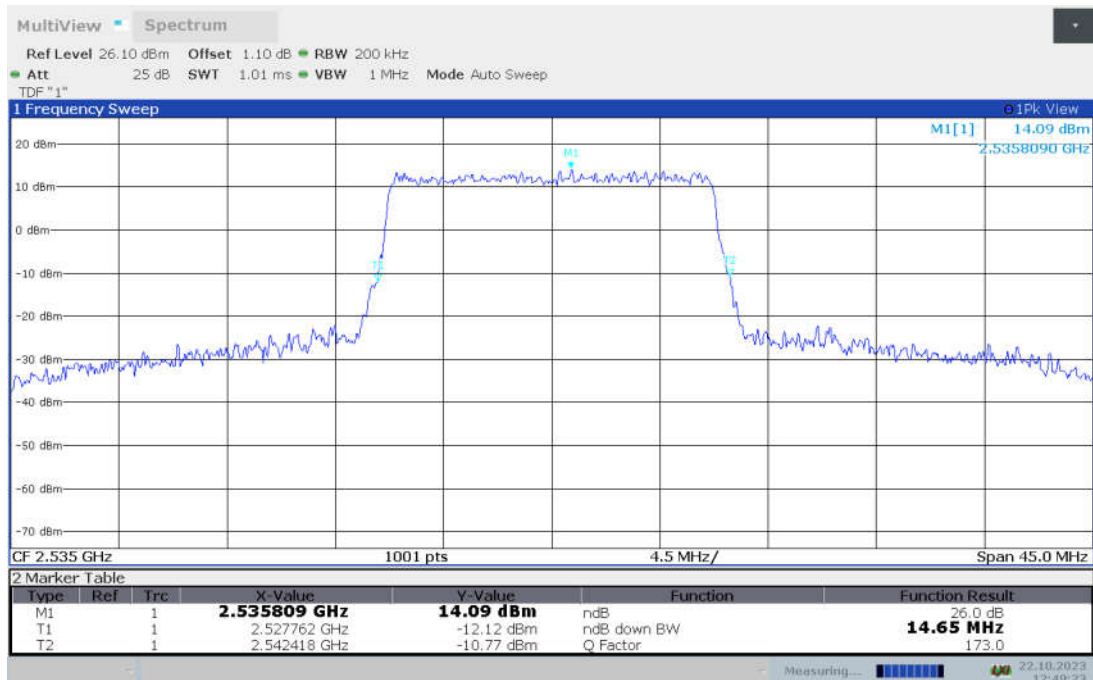
**LTE band 7,15MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2535	14.745	14.655

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



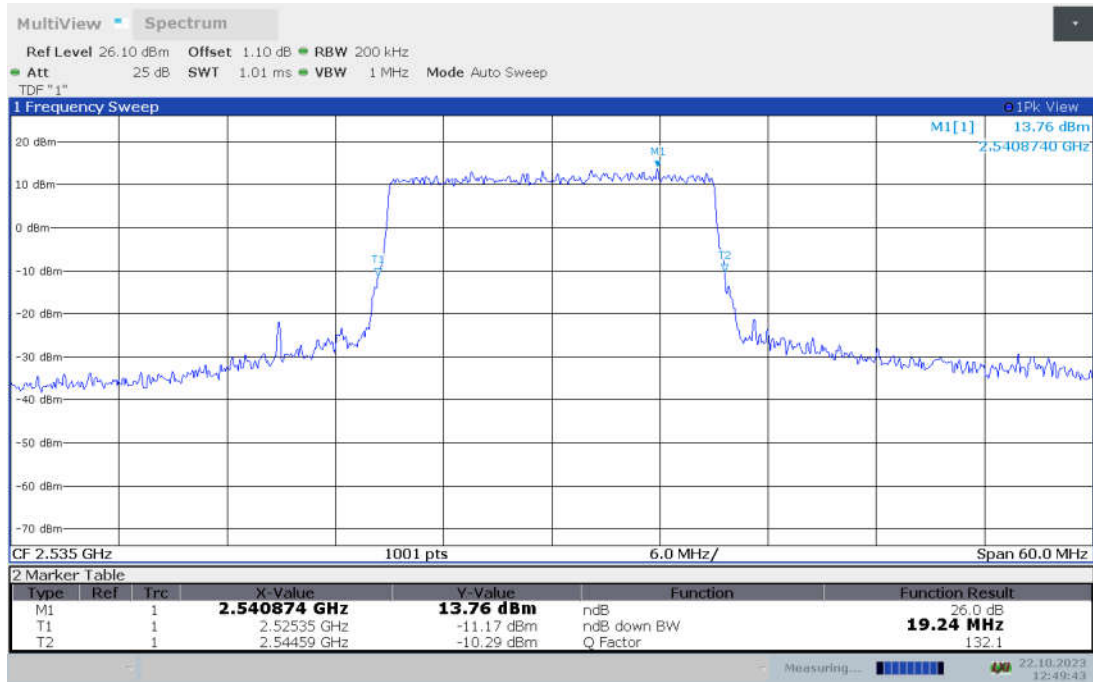
**LTE band 7 , 15MHz Bandwidth, MID, 16QAM (-26dBc BW)**



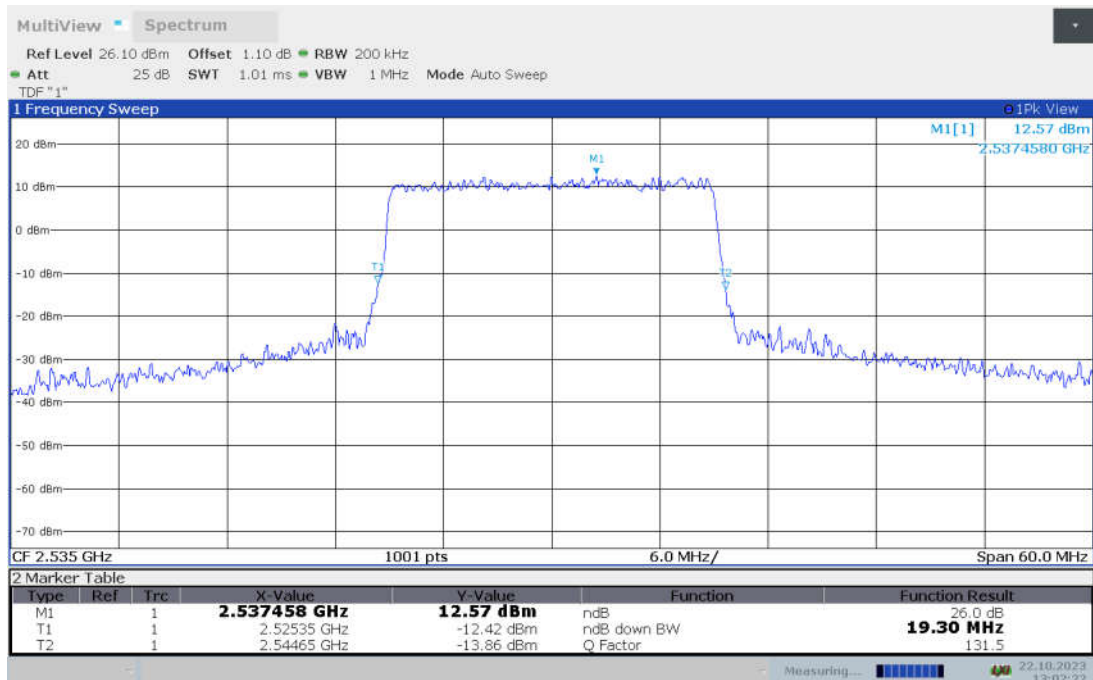
**LTE band 7,20MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
2535	19.241	19.301

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



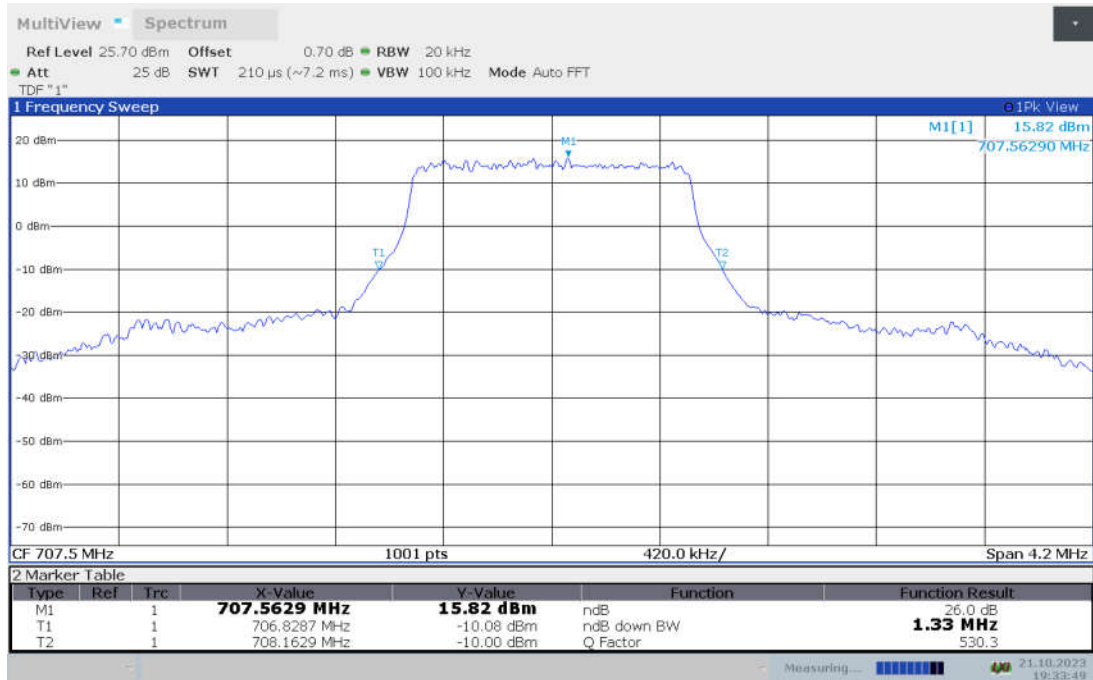
**LTE band 7 , 20MHz Bandwidth, MID, 16QAM (-26dBc BW)**



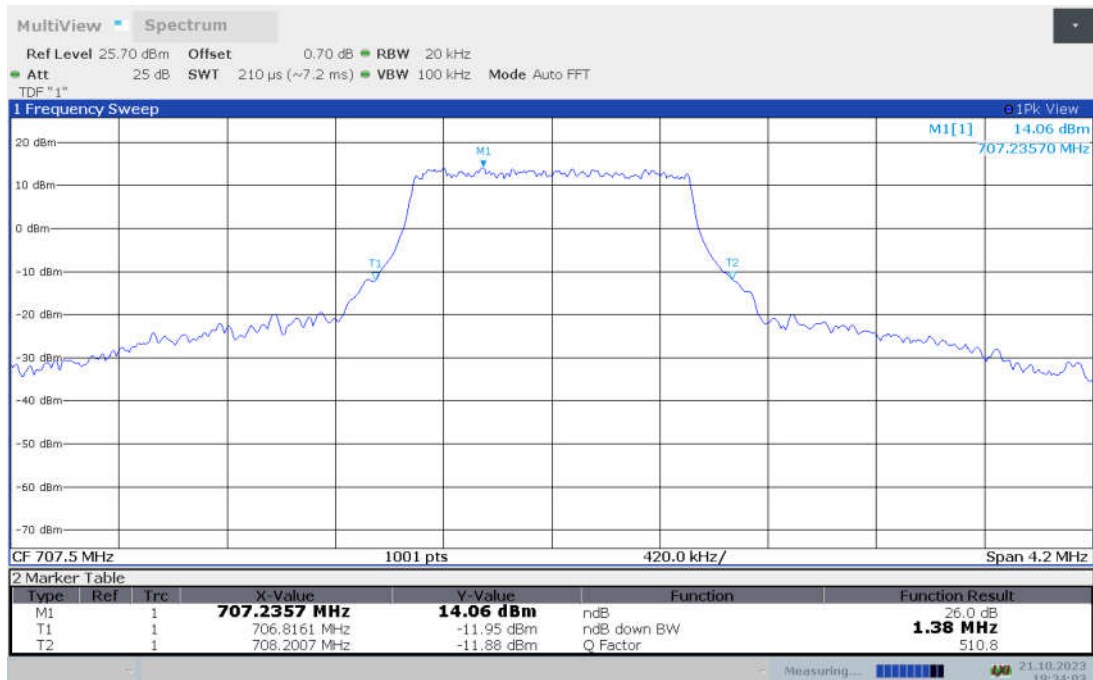
**LTE band 12,1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
707.5	1.334	1.385

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



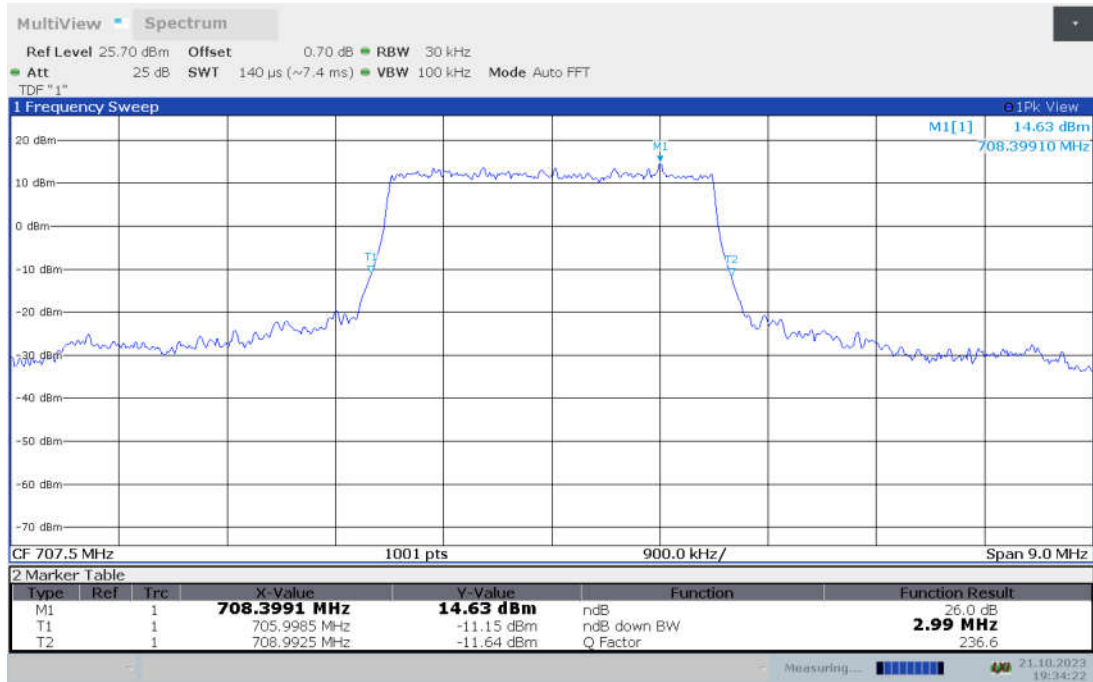
**LTE band 12 , 1.4MHz Bandwidth, MID, 16QAM (-26dBc BW)**



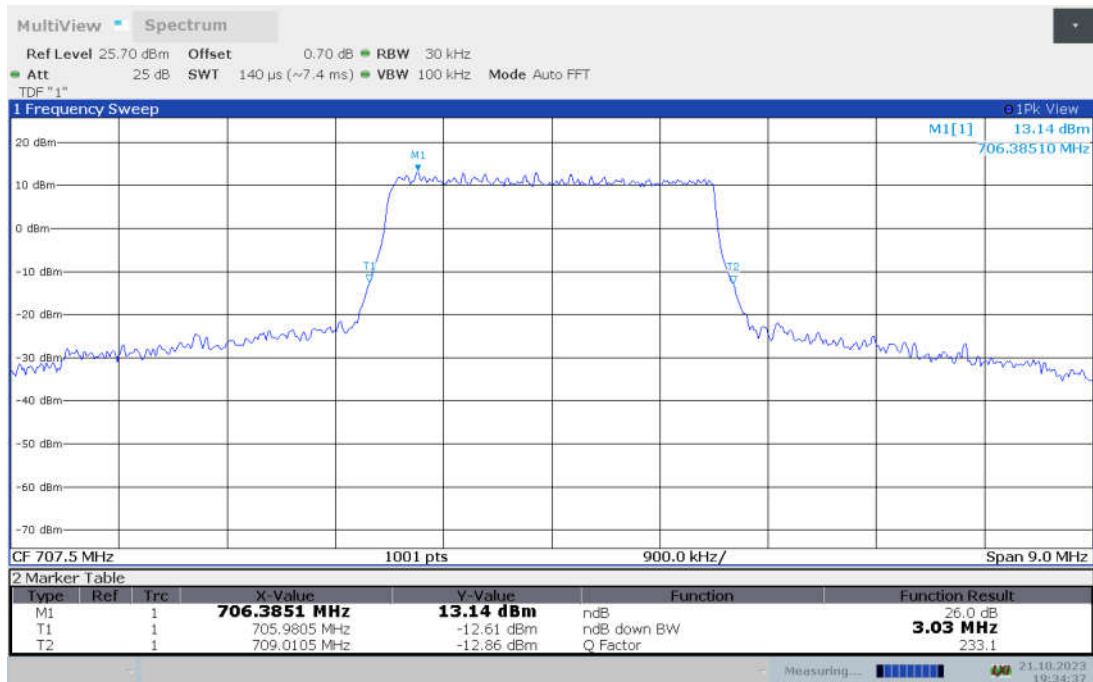
**LTE band 12,3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
707.5	2.994	3.030

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



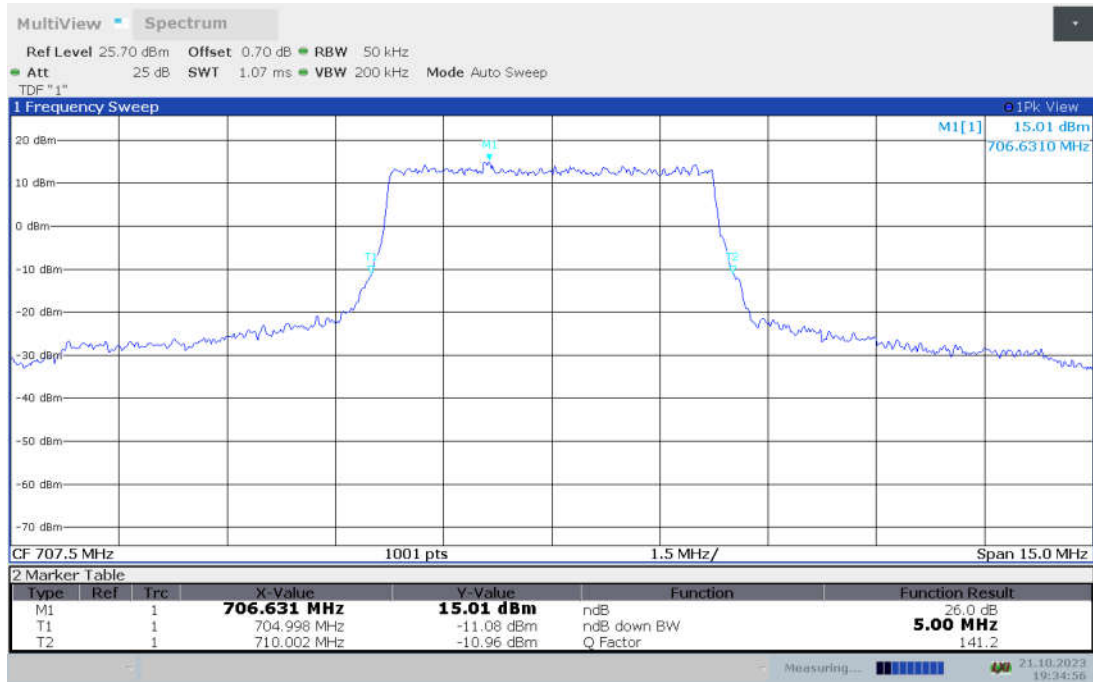
**LTE band 12 , 3MHz Bandwidth, MID, 16QAM (-26dBc BW)**



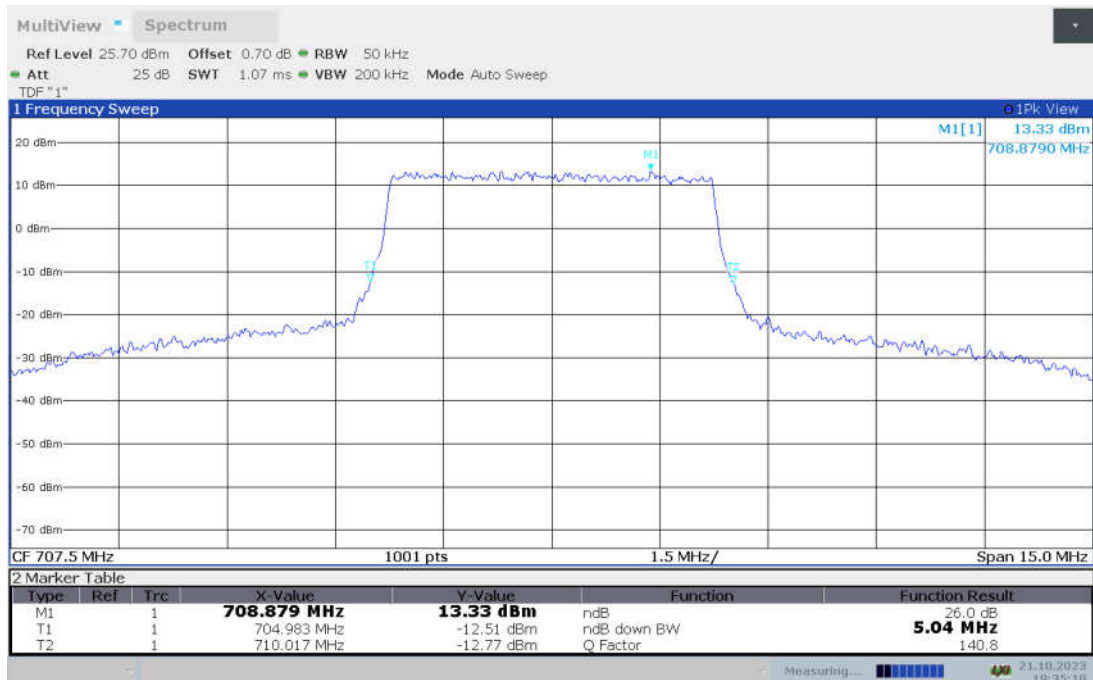
**LTE band 12,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
707.5	5.005	5.035

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



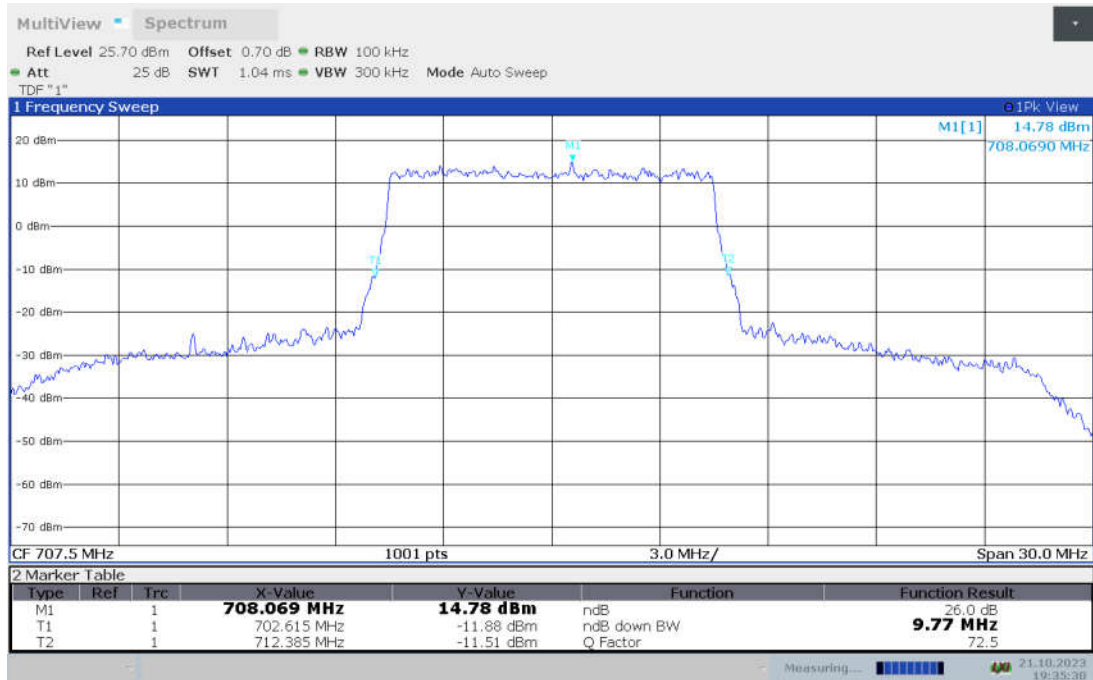
**LTE band 12 , 5MHz Bandwidth, MID, 16QAM (-26dBc BW)**



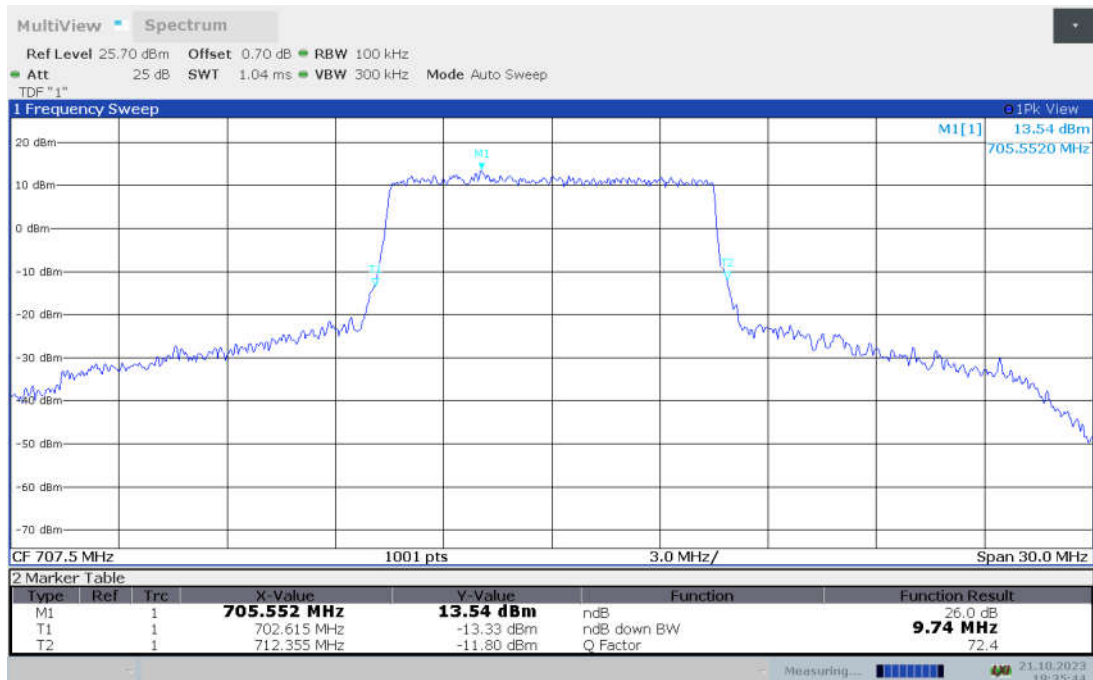
**LTE band 12,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
707.5	9.770	9.740

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



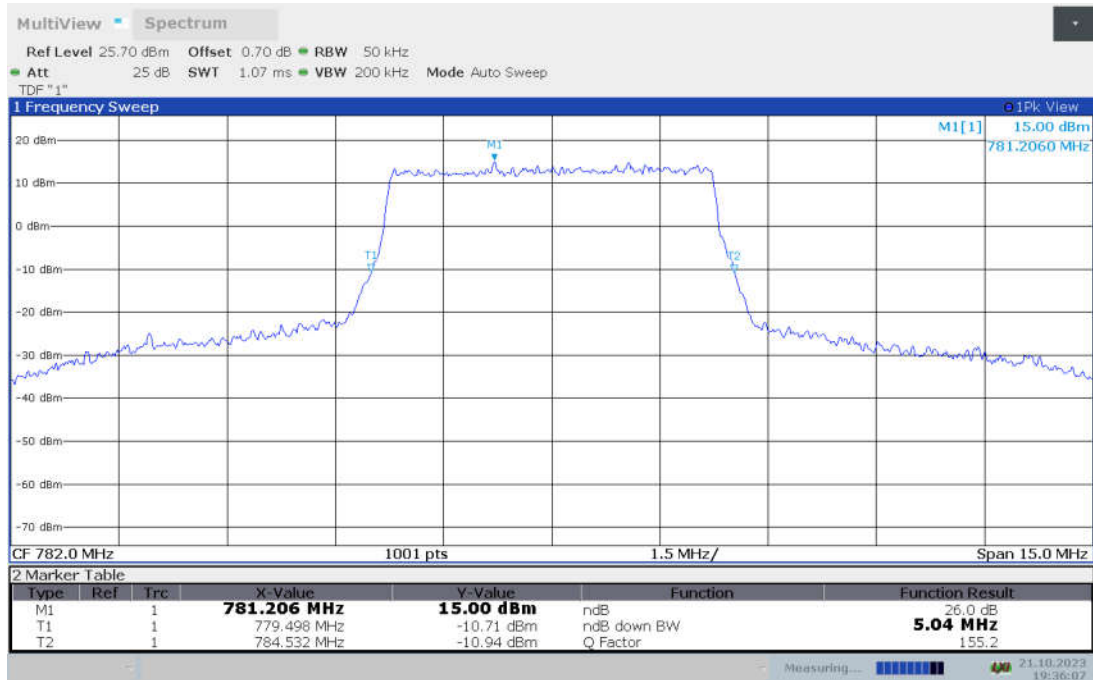
**LTE band 12 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



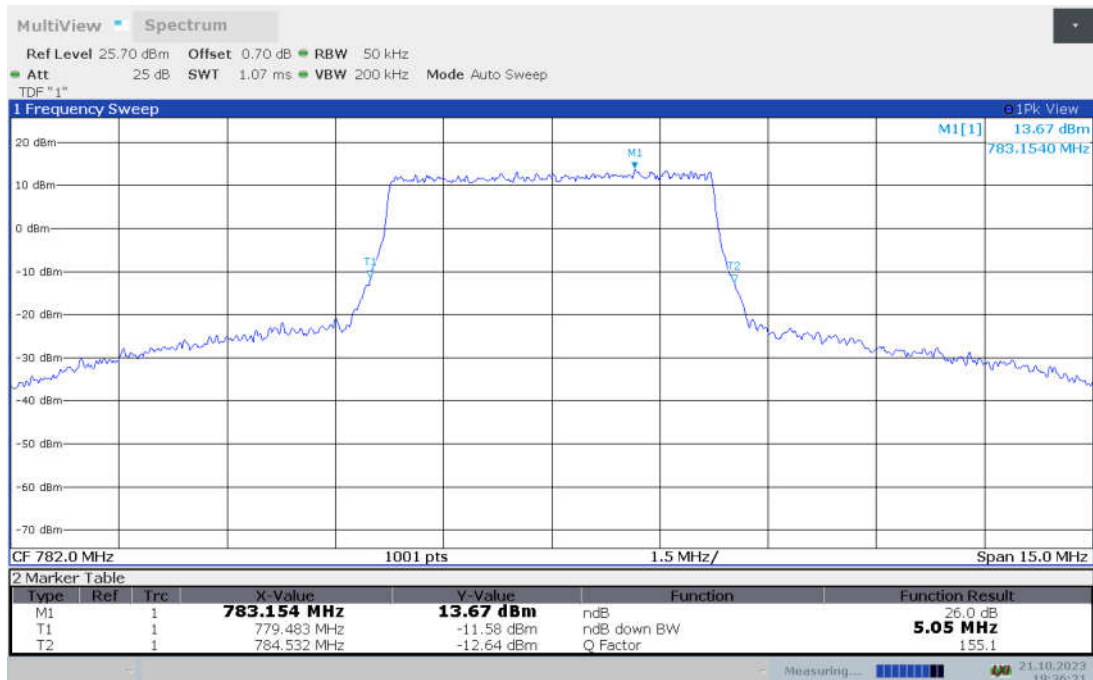
**LTE band 13,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
782	5.035	5.050

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



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

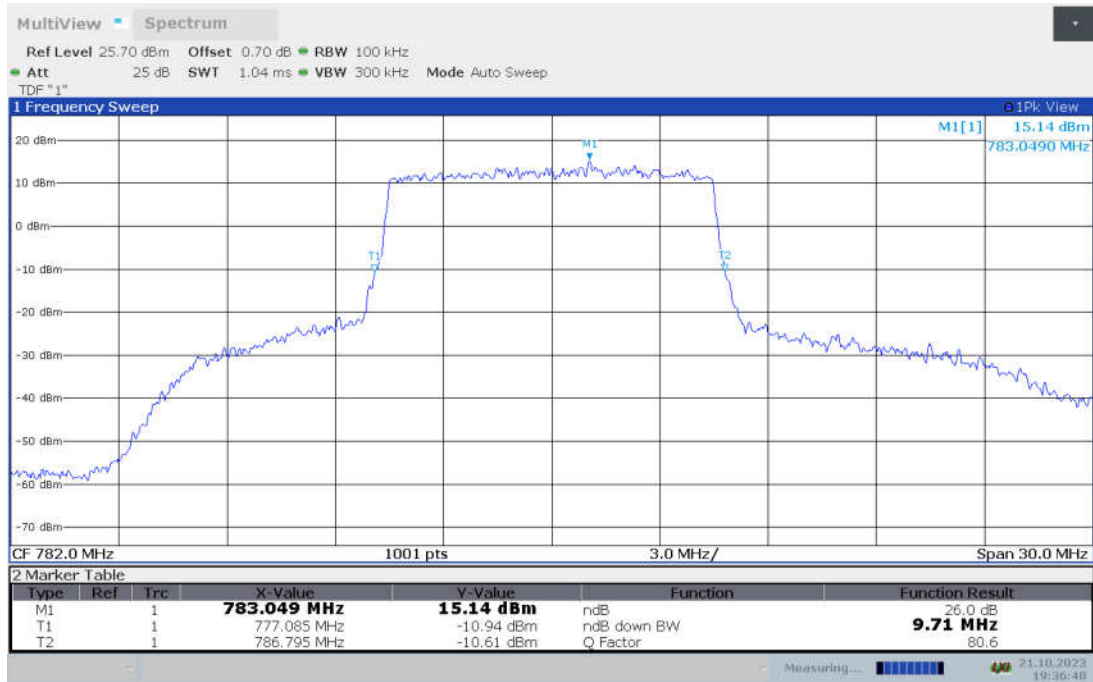




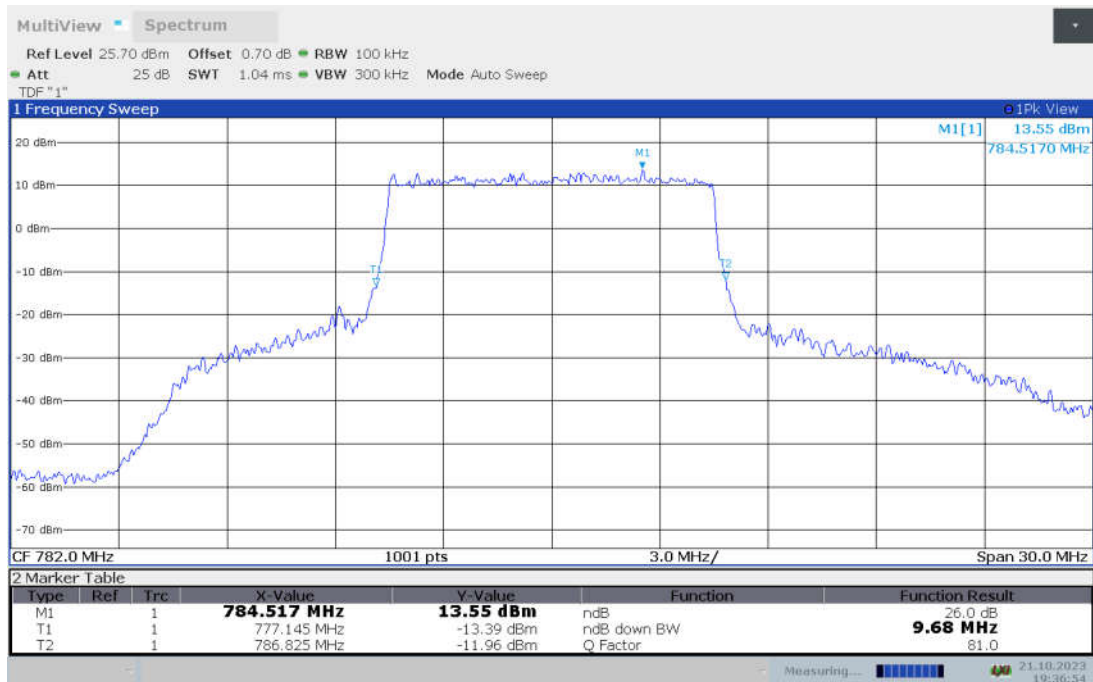
**LTE band 13,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
782	9.710	9.680

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



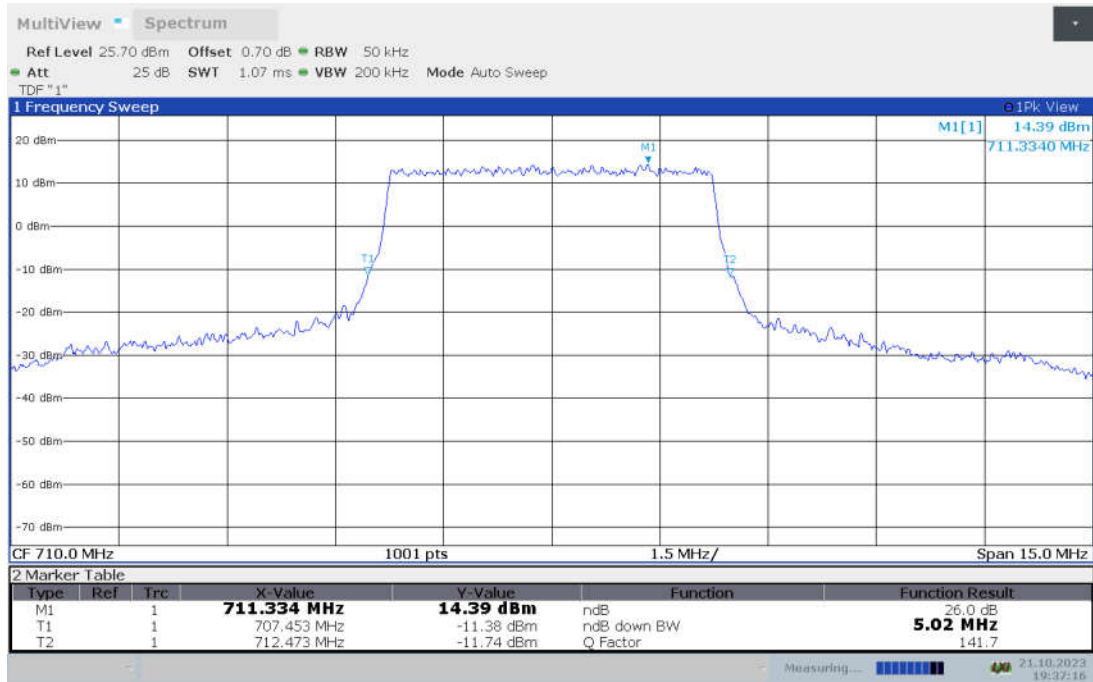
**LTE band 13 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



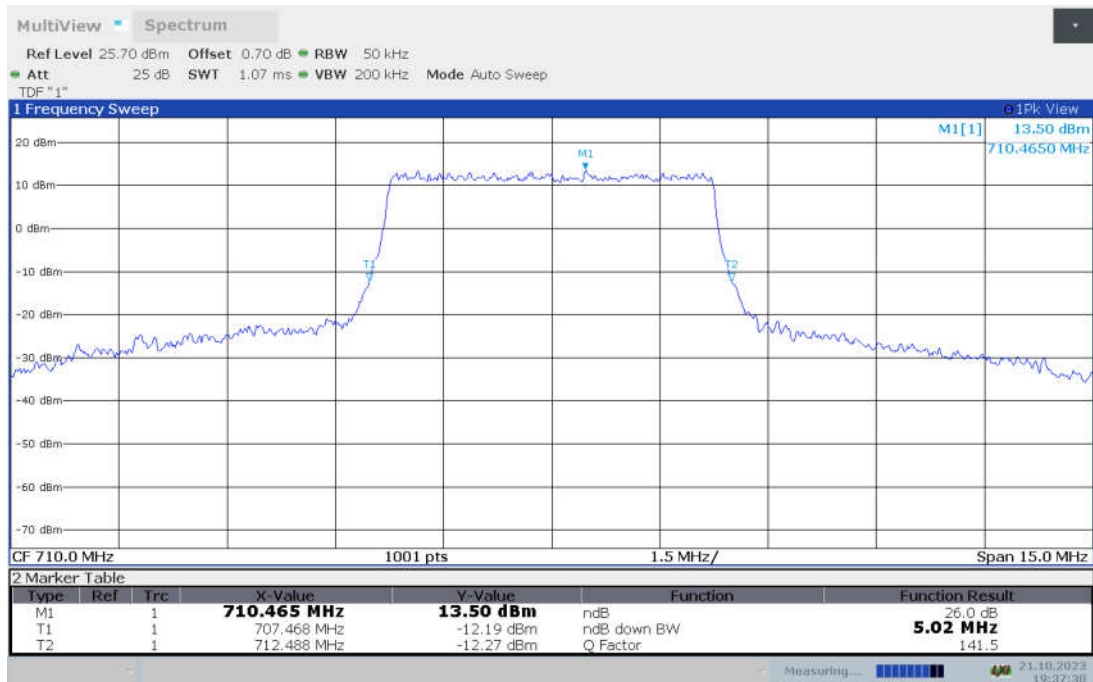
**LTE band 17,5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
710	5.020	5.020

**LTE band 17 , 5MHz Bandwidth, MID, QPSK (-26dBc BW)**



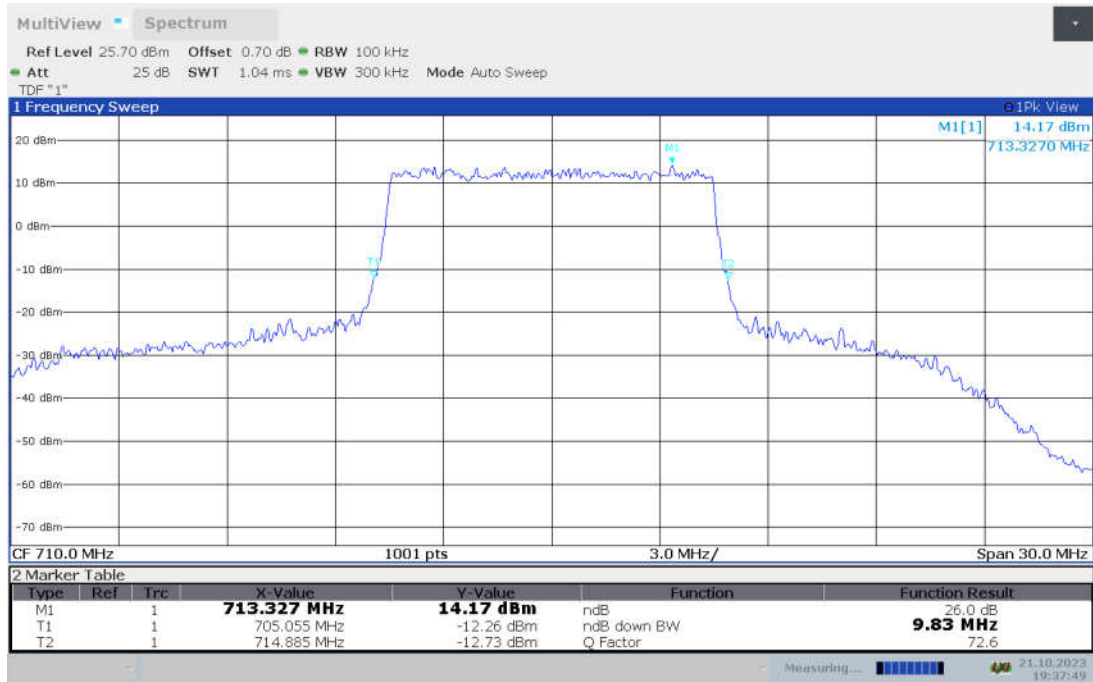
**LTE band 17 , 5MHz Bandwidth, MID, 16QAM (-26dBc BW)**



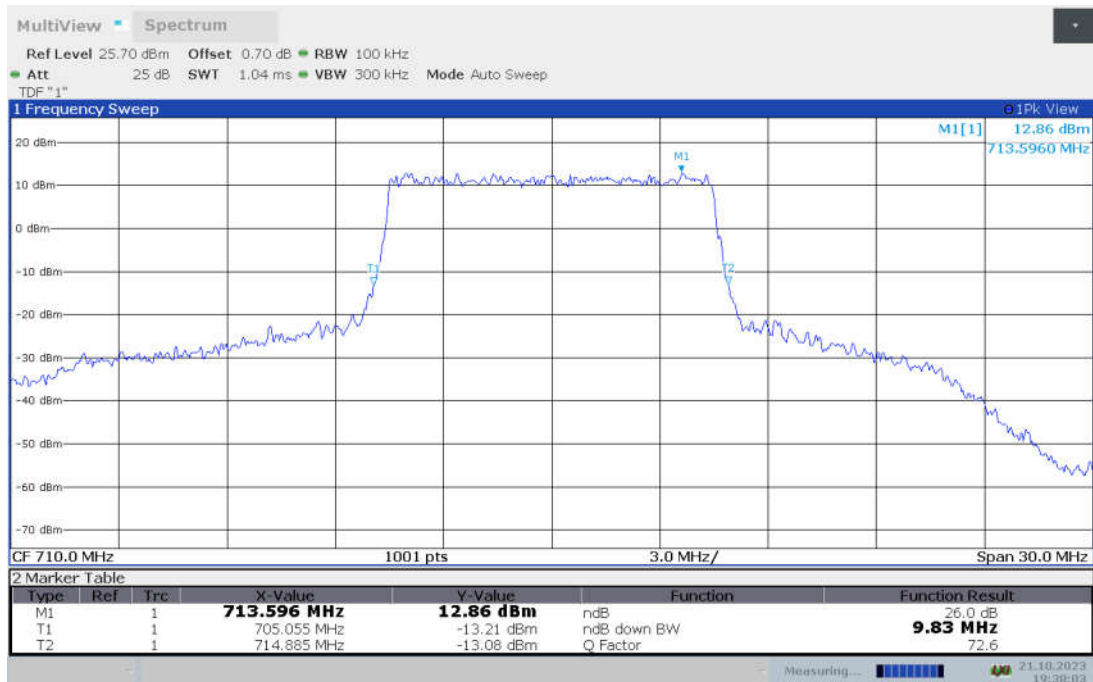
**LTE band 17,10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
710	9.830	9.830

**LTE band 17 , 10MHz Bandwidth, MID, QPSK (-26dBc BW)**



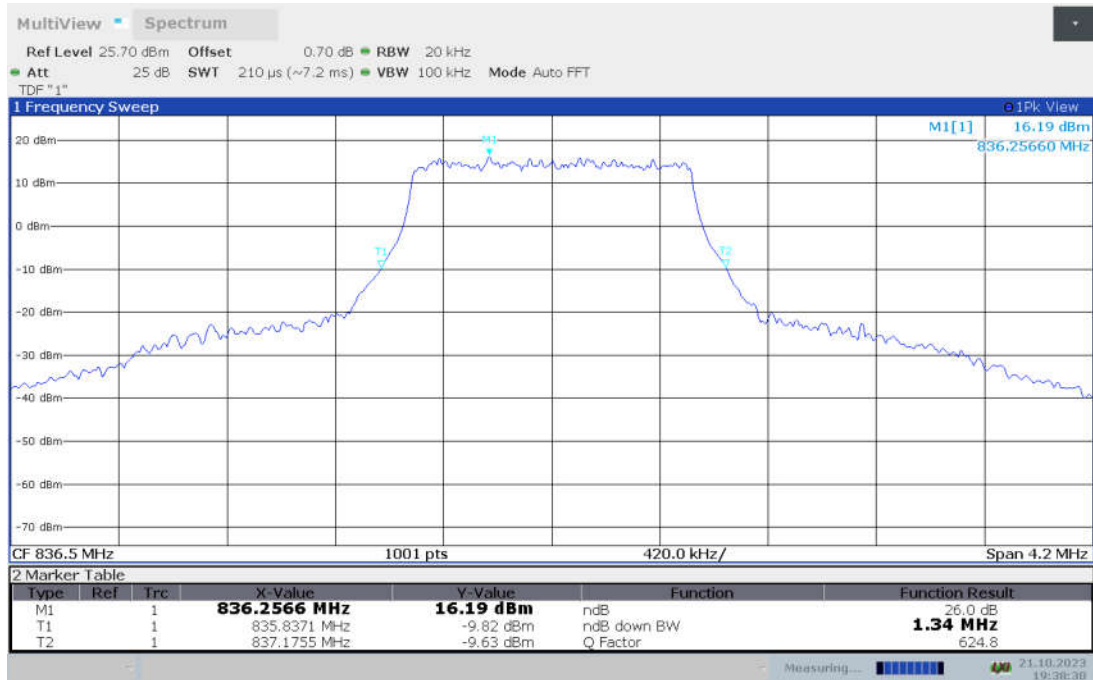
**LTE band 17 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



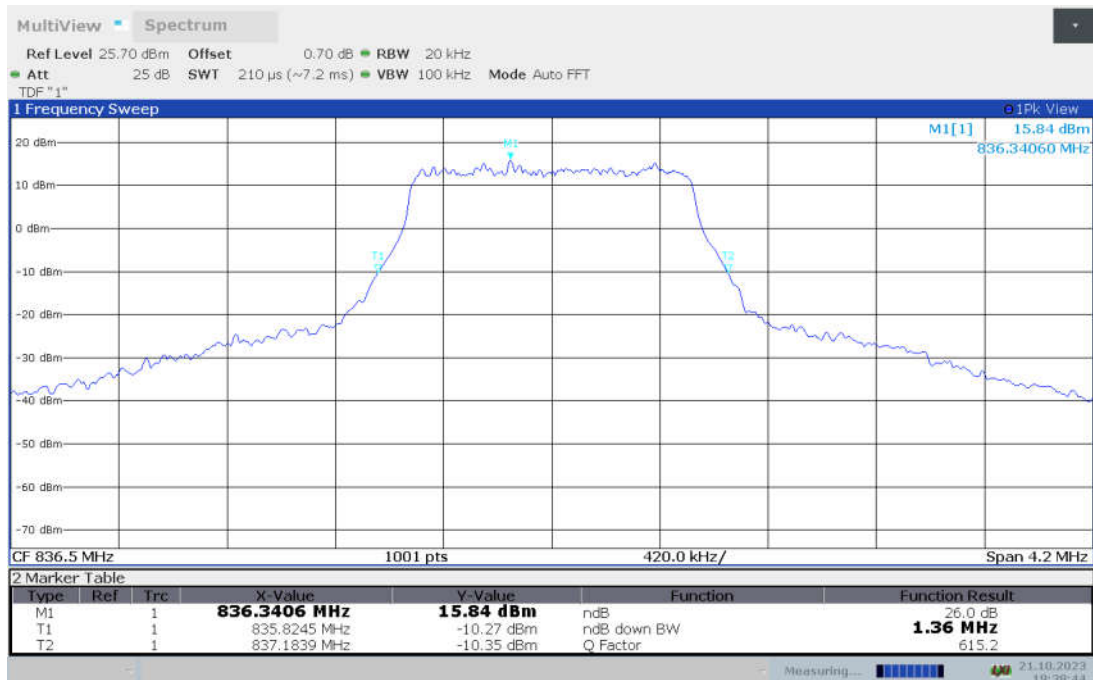
**LTE band 26(824MHz-849MHz),1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	1.338	1.359

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



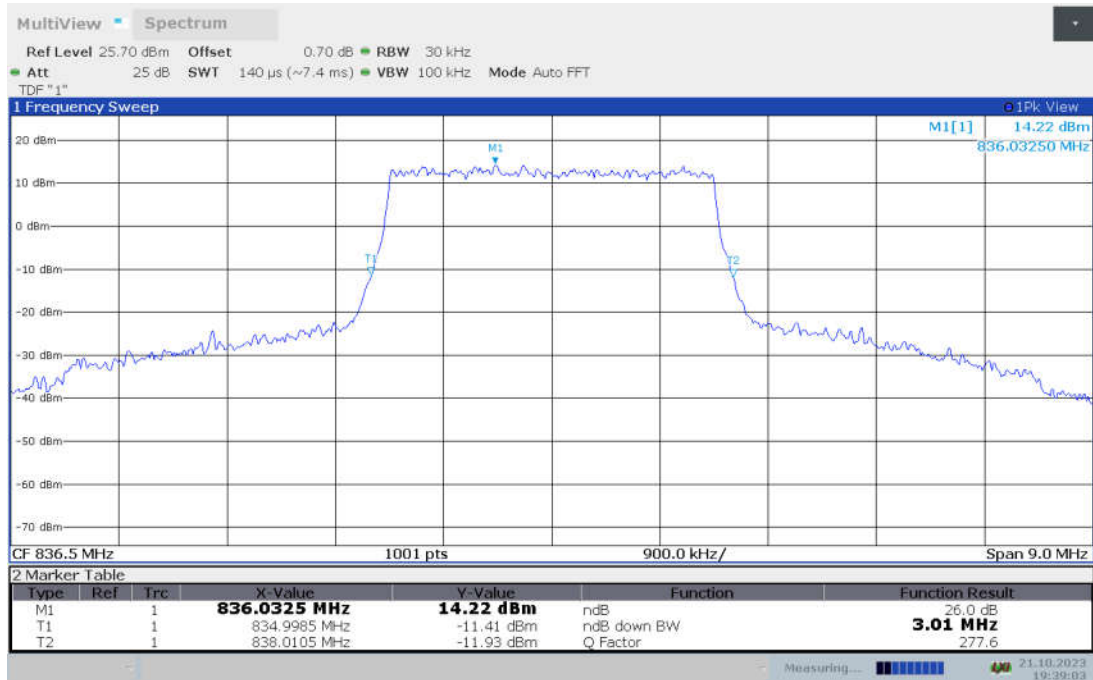
**LTE band 26 , 1.4MHz Bandwidth, MID, 16QAM (-26dBc BW)**



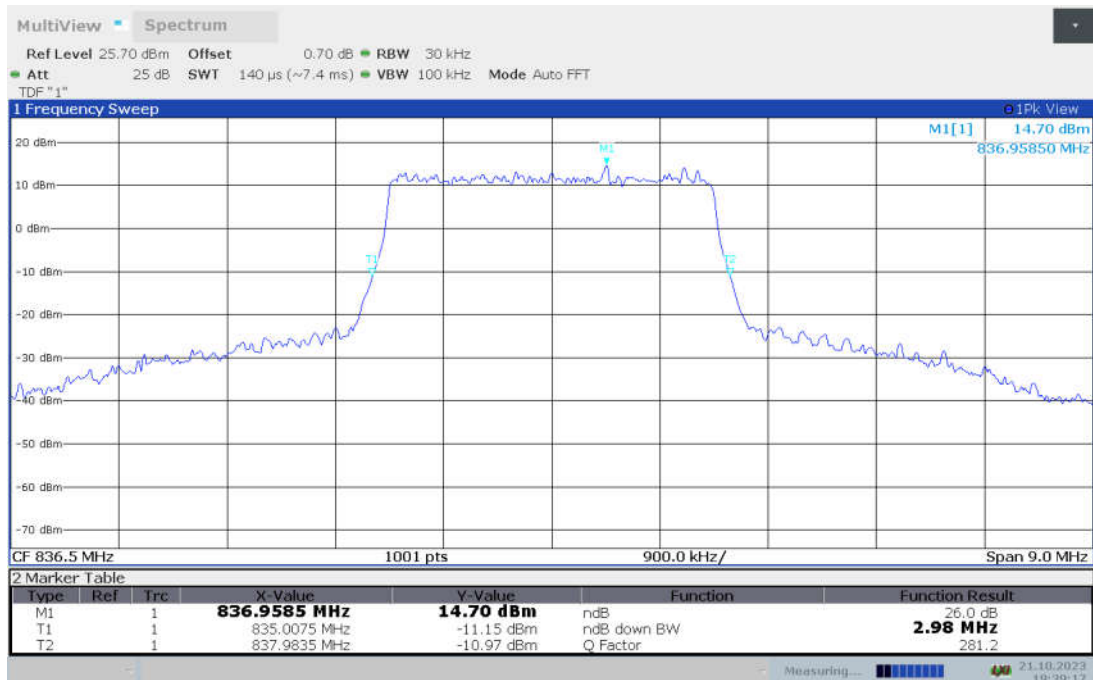
**LTE band 26(824MHz-849MHz),3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	3.012	2.976

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



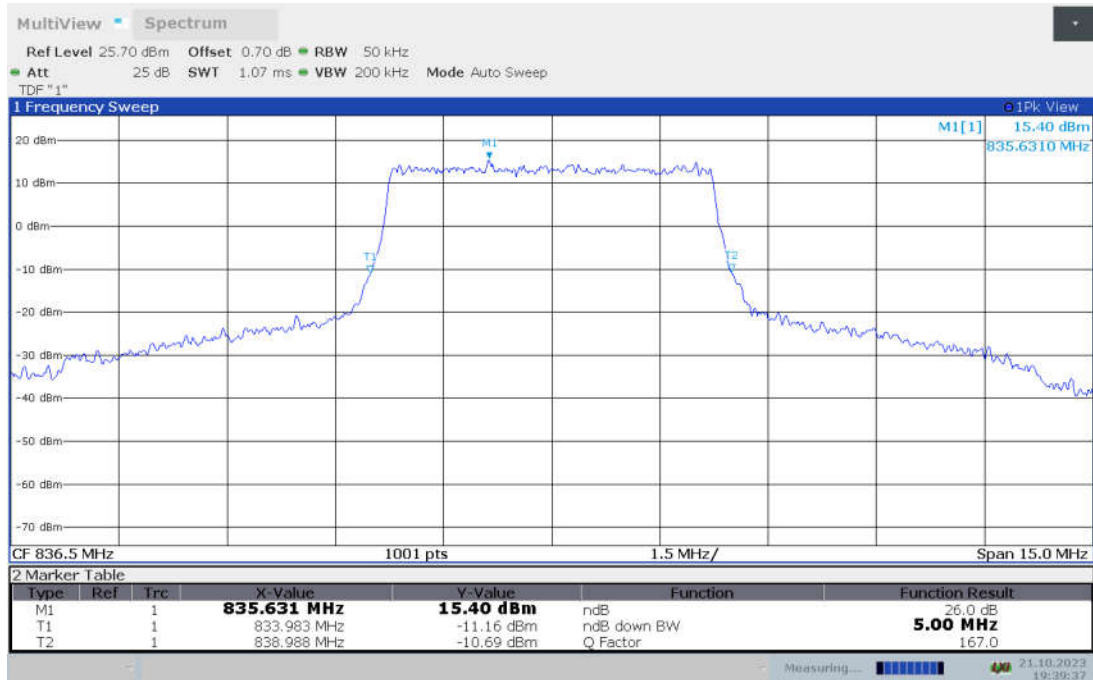
**LTE band 26 , 3MHz Bandwidth, MID, 16QAM (-26dBc BW)**



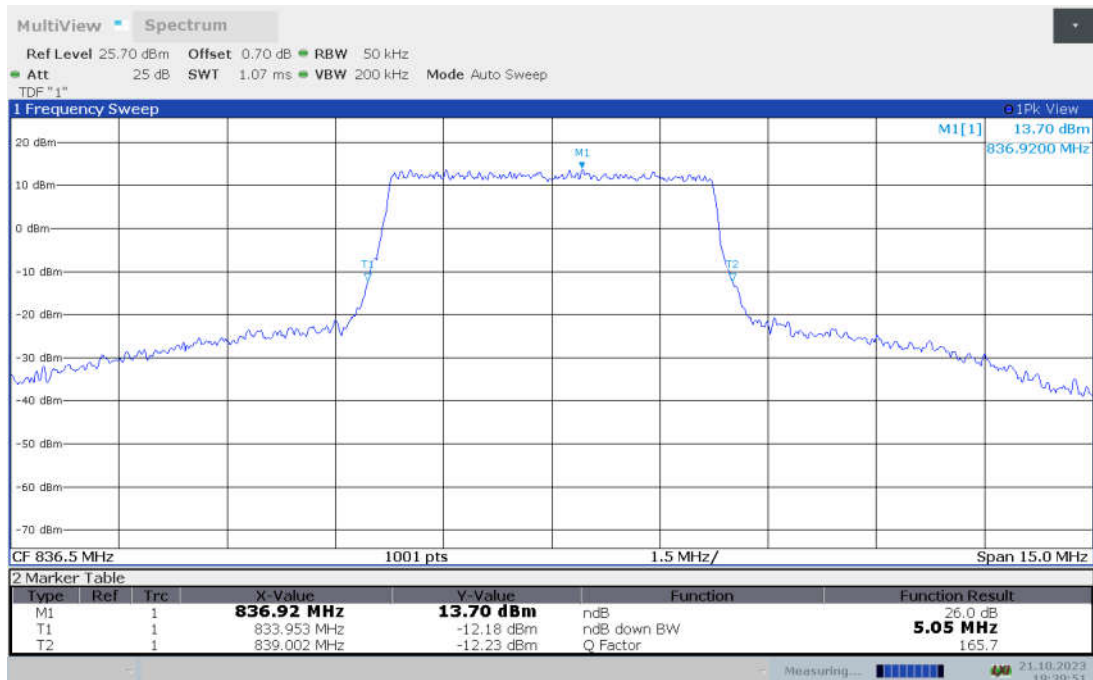
**LTE band 26(824MHz-849MHz),5MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	5.005	5.050

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



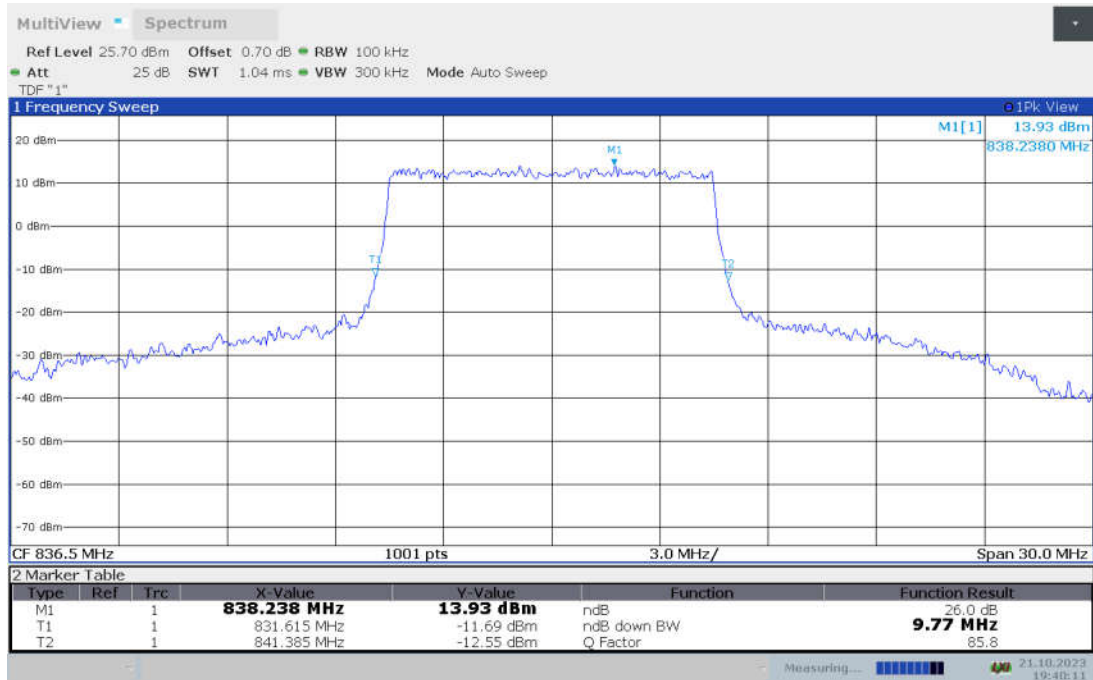
**LTE band 26 , 5MHz Bandwidth, MID, 16QAM (-26dBc BW)**



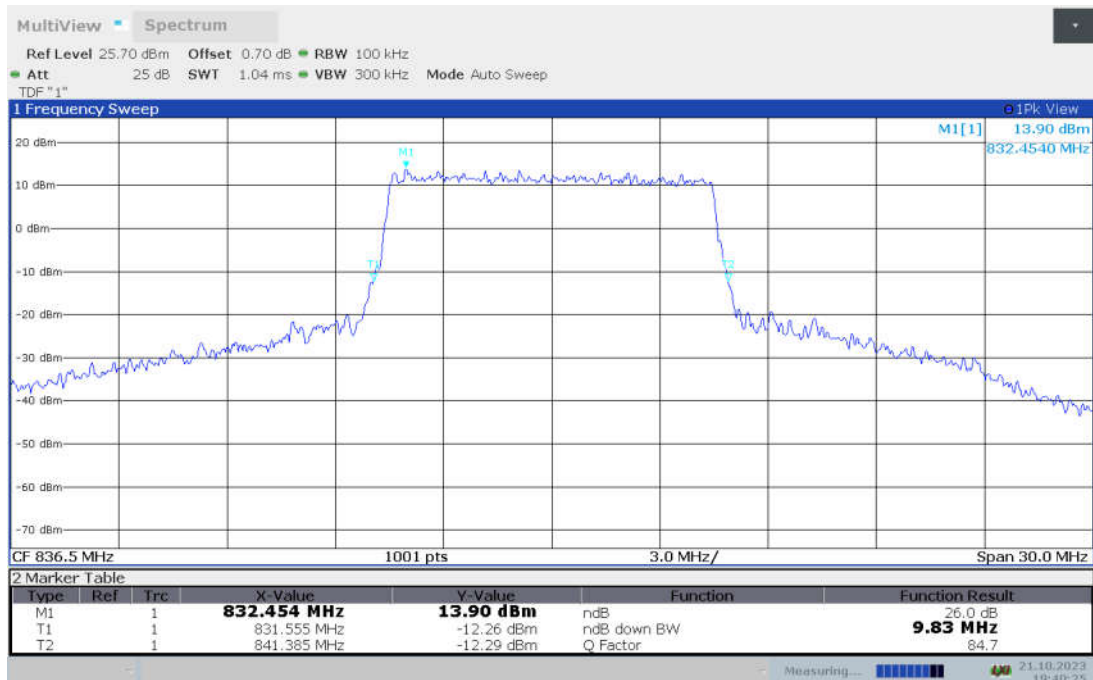
**LTE band 26(824MHz-849MHz),10MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	9.770	9.830

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



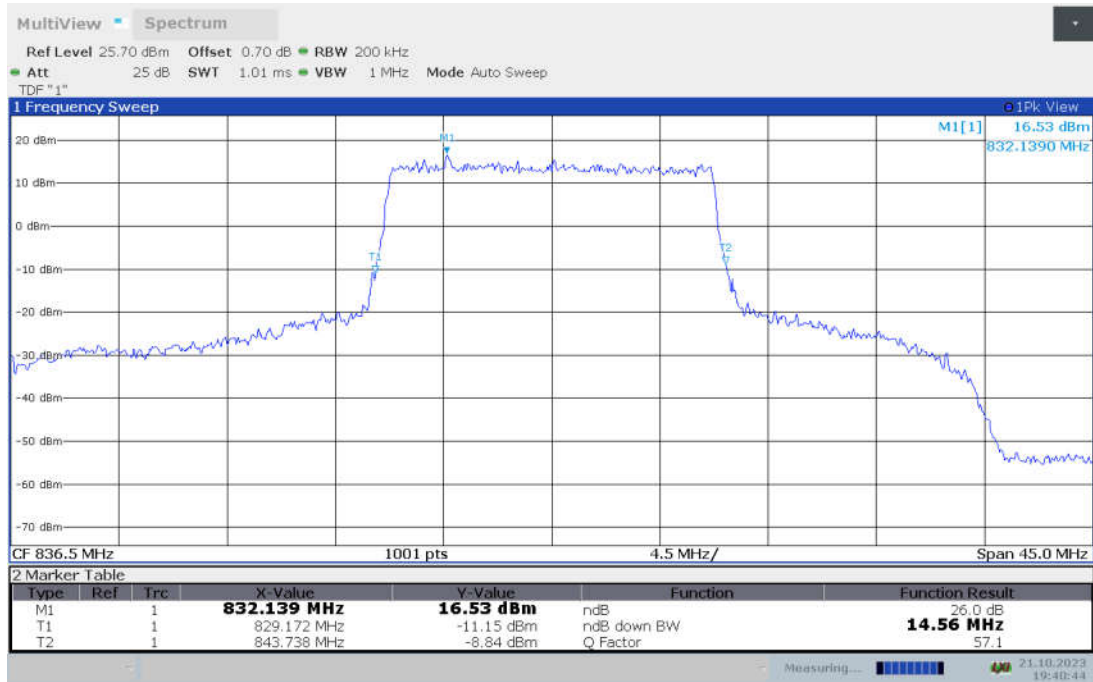
**LTE band 26 , 10MHz Bandwidth, MID, 16QAM (-26dBc BW)**



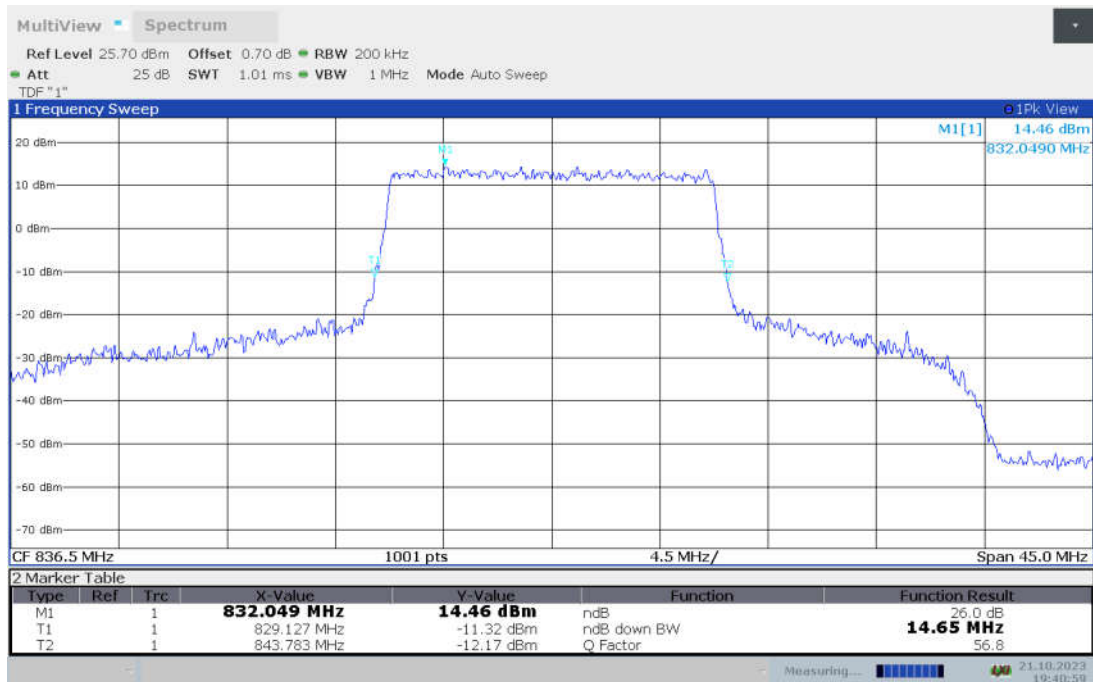
**LTE band 26(824MHz-849MHz),15MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
836.5	14.565	14.655

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



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

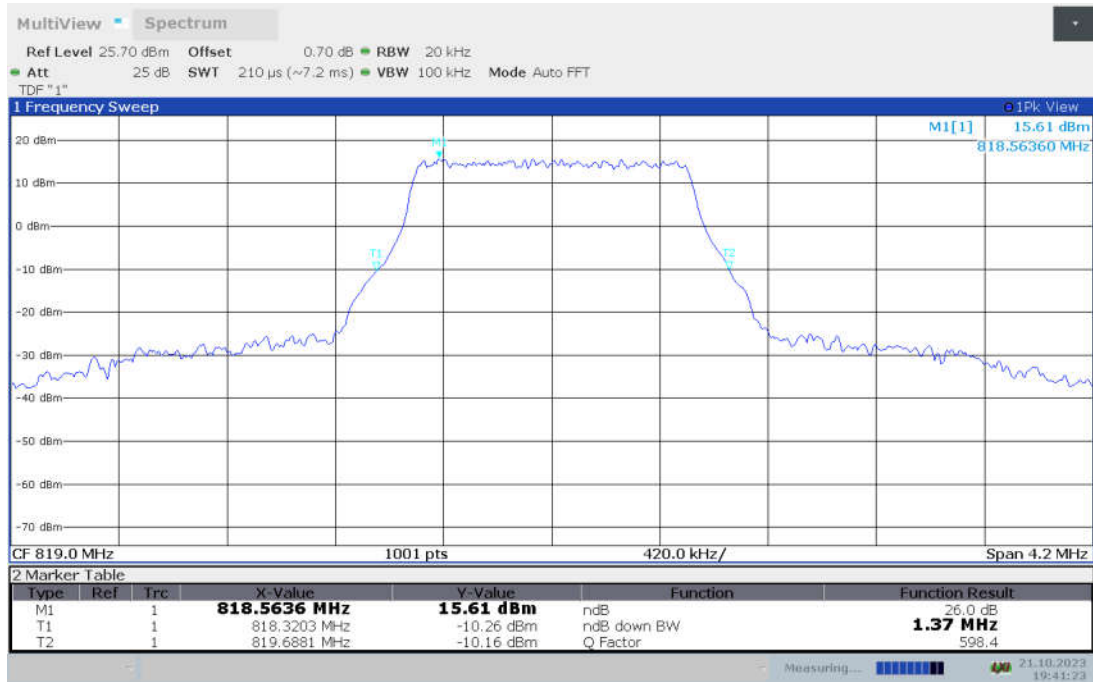




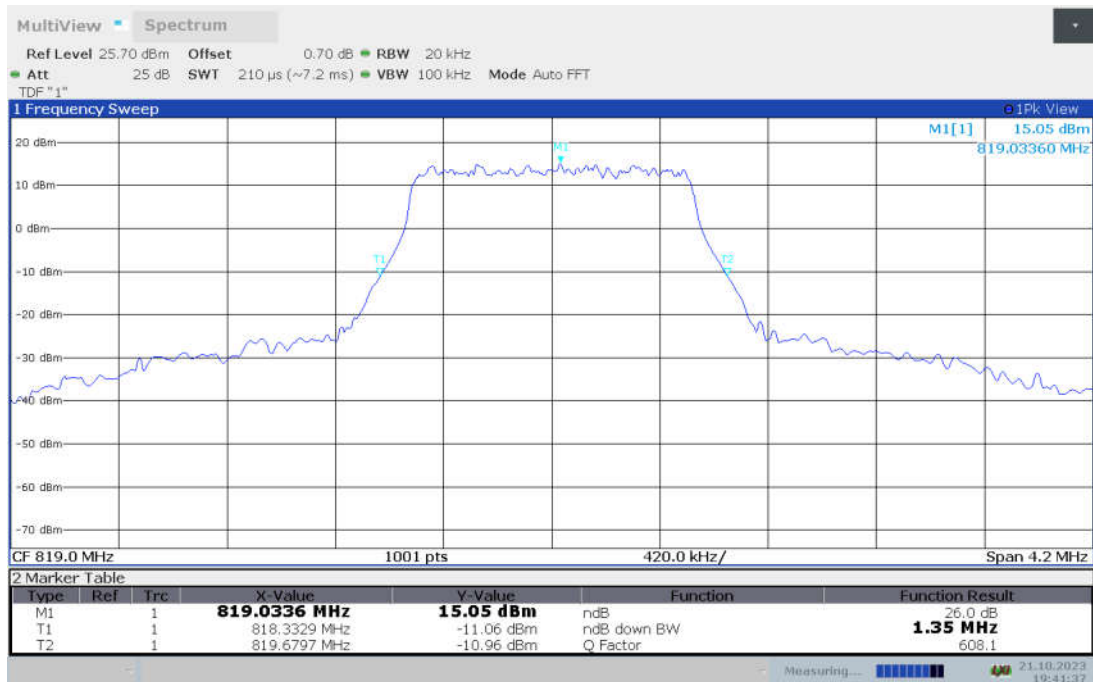
**LTE band 26(814MHz-824MHz),1.4MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
819	1.368	1.347

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



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



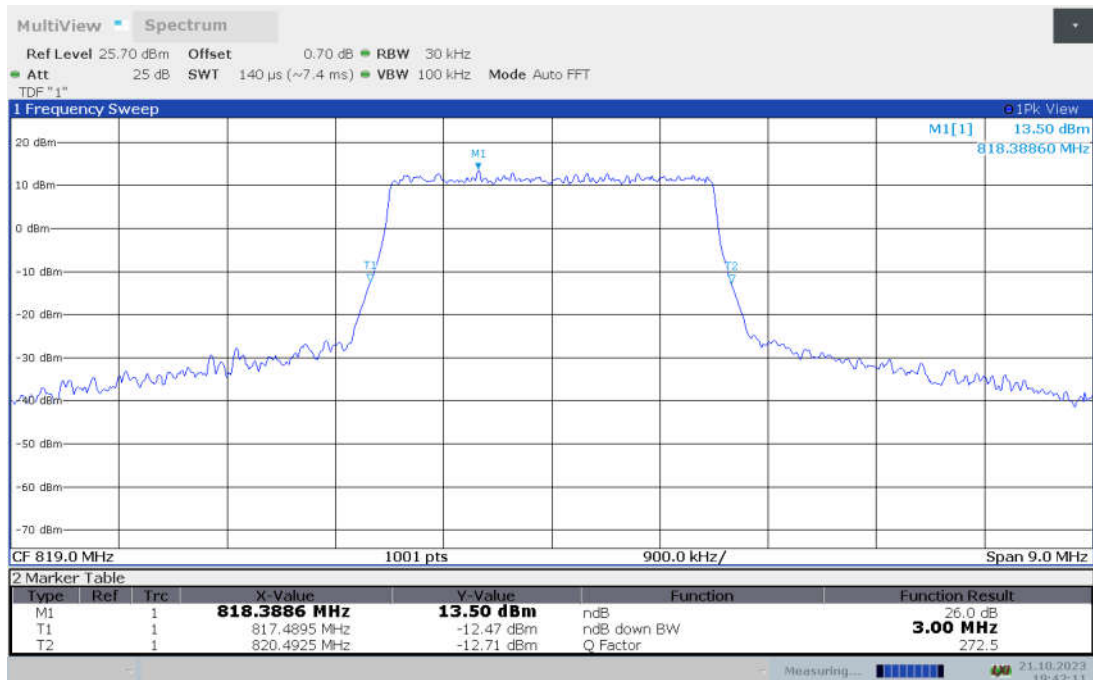
**LTE band 26(814MHz-824MHz),3MHz(-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
819	3.021	3.003

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



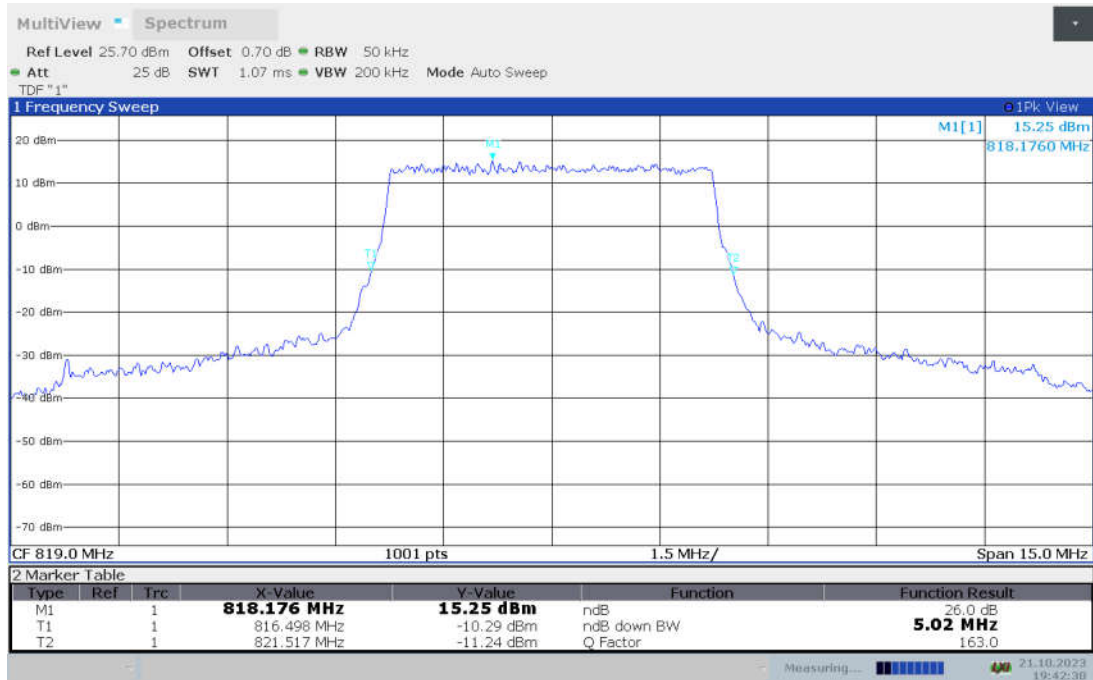
**LTE band 26 , 3MHz Bandwidth, MID, 16QAM (-26dBc BW)**



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

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)	
	QPSK	16QAM
819	5.020	5.020

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



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

