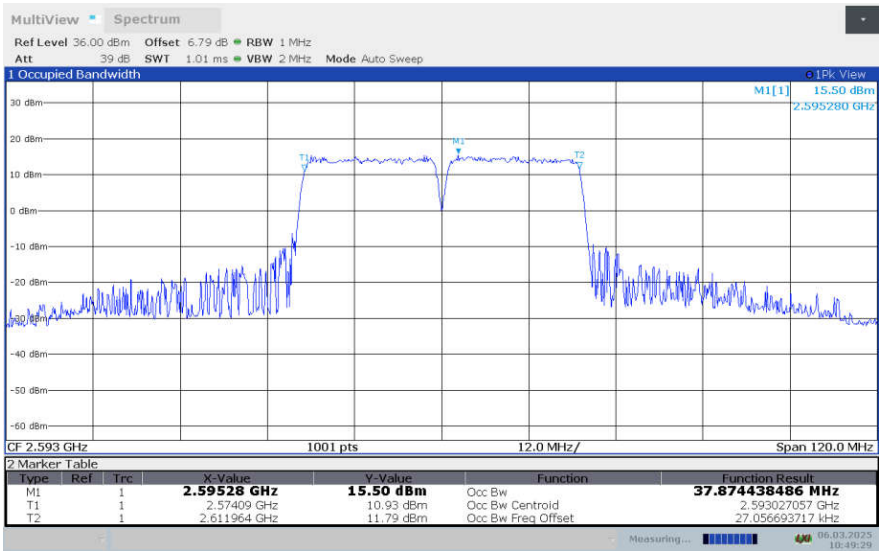
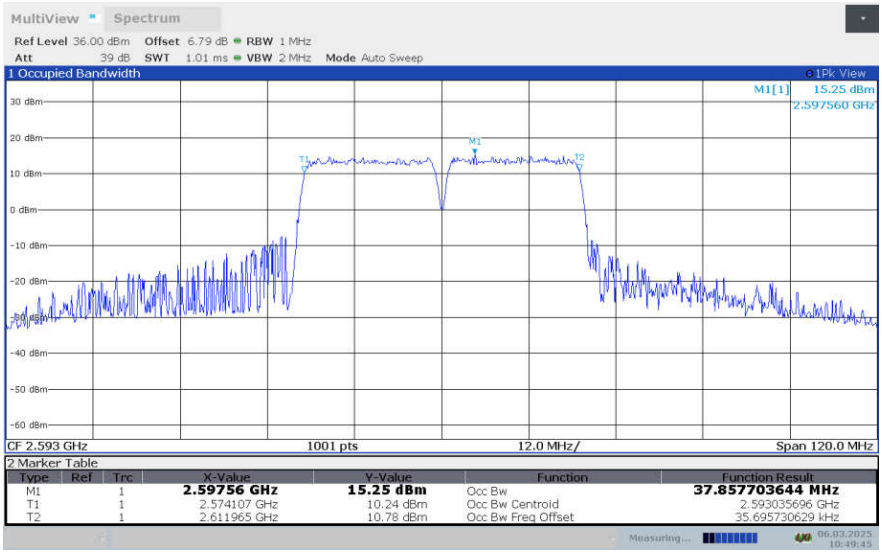
LTE CA_41C, 20MHz+20MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW) (MHz)	
	QPSK	16QAM
2593.0	37.874	37.858

LTE CA_41C , 20MHz+20MHz Bandwidth,QPSK (99% OBW)



LTE CA_41C , 20MHz+20MHz Bandwidth,16QAM (99% OBW)



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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 ≥ 3 × 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.

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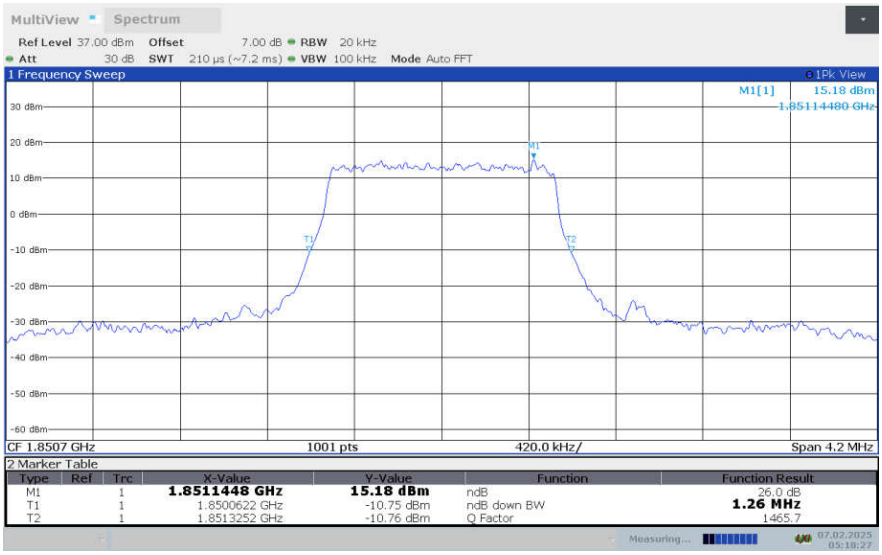
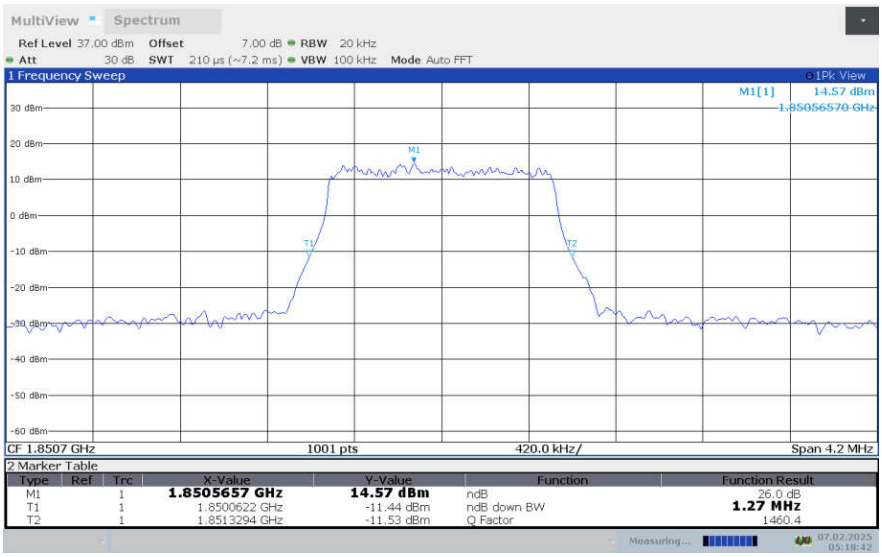
LTE Band 2,1.4MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1850.7	1.263	1.267	1.254
1880	1.254	1.284	1.280
1909.3	1.280	1.246	1.288

LTE Band 2 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 2 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 2 , 1.4MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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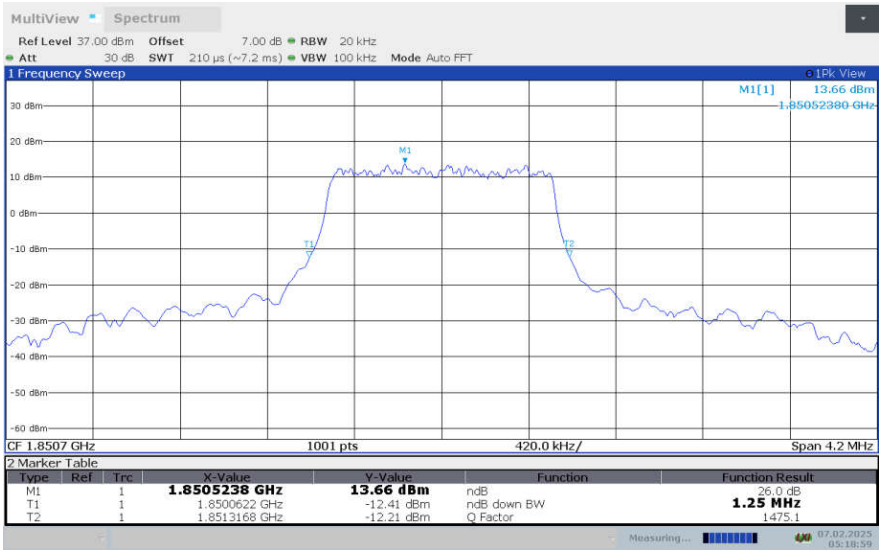
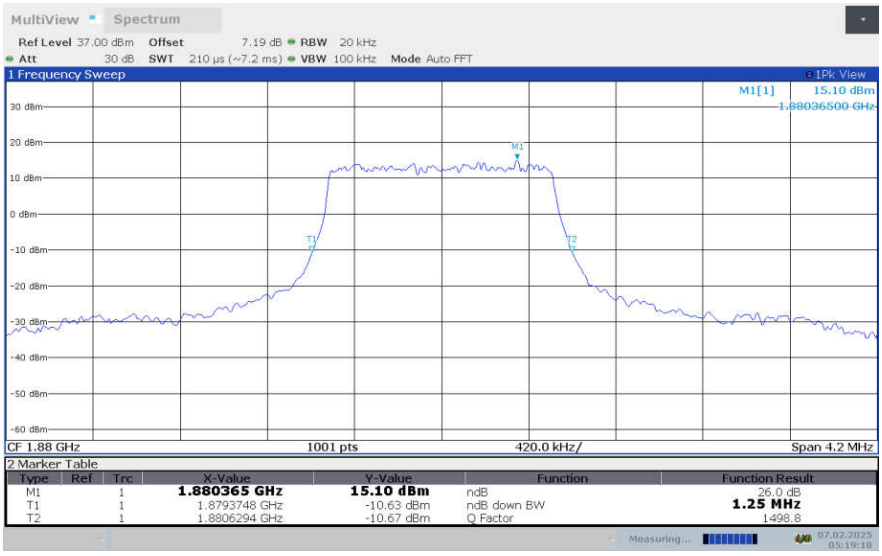


LTE Band 2 , 1.4MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 2 , 1.4MHz Bandwidth,MID,16QAM (-26dBc OBW)

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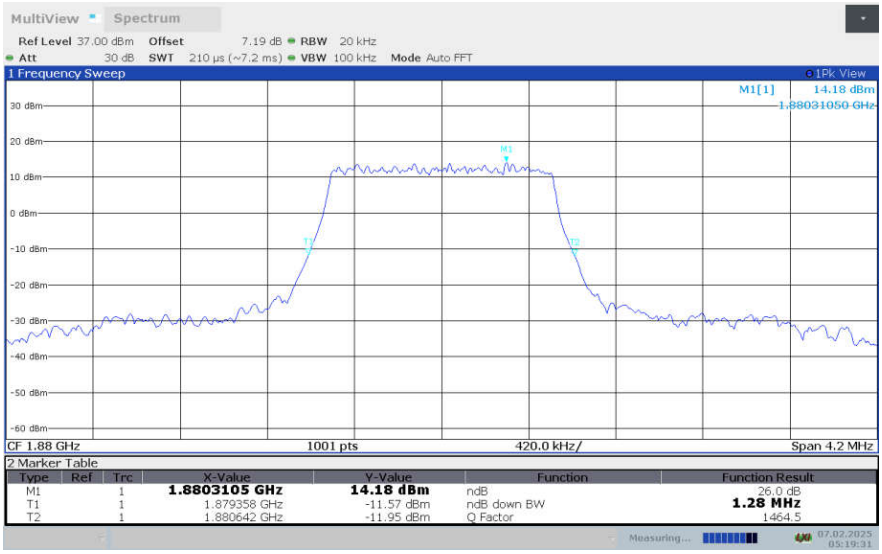
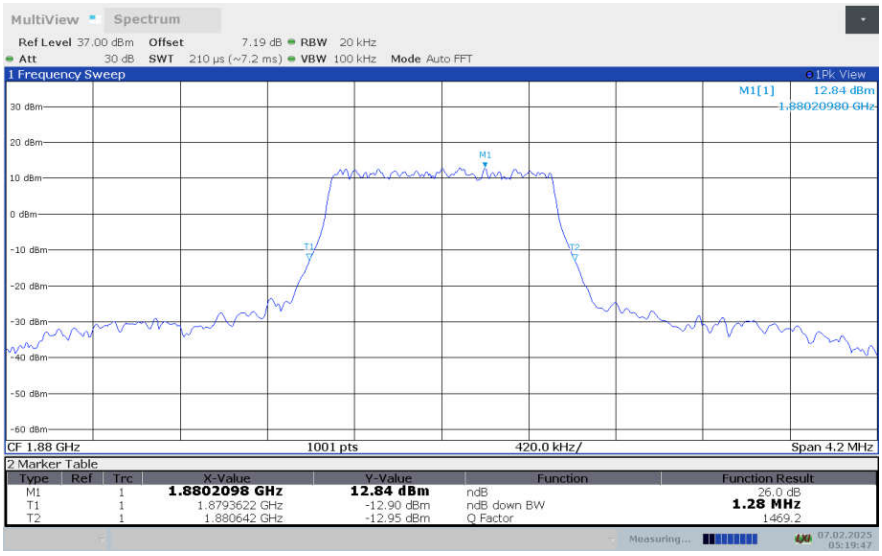


LTE Band 2 , 1.4MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 2 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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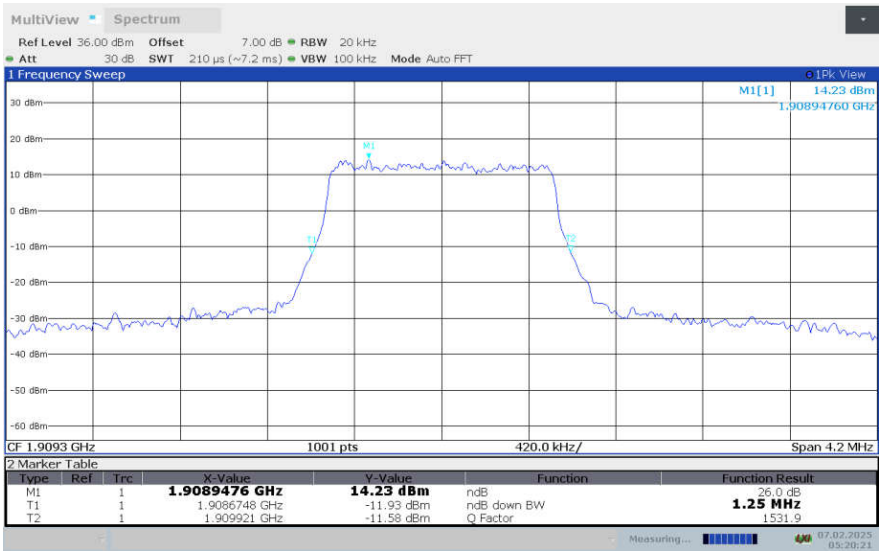
LTE Band 2 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 2 , 1.4MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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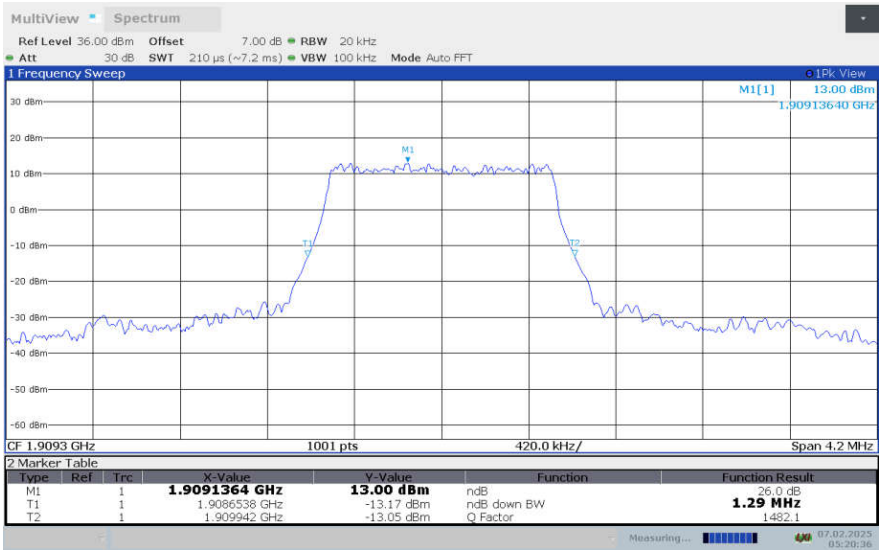

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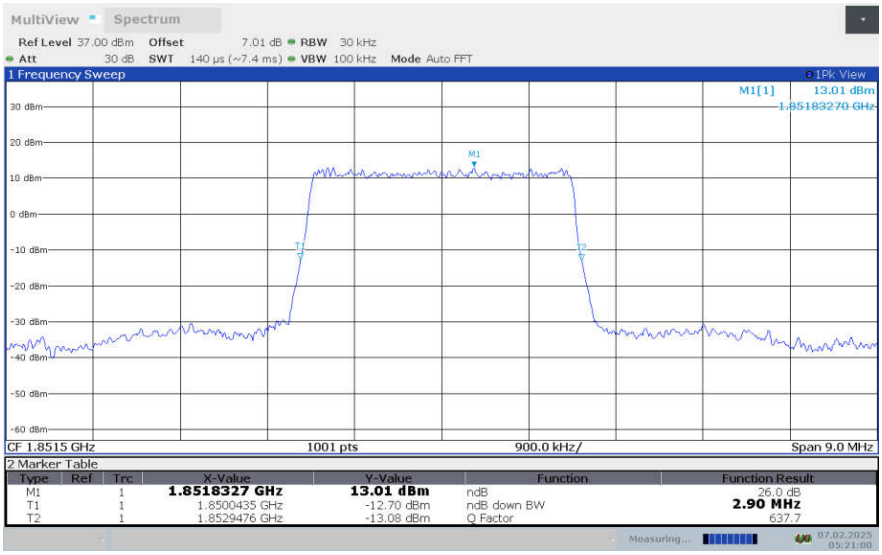
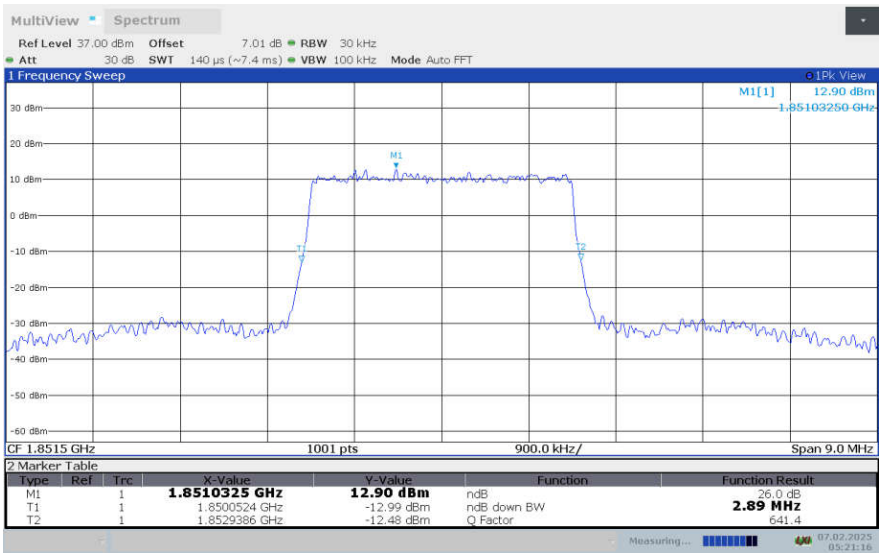
LTE Band 2,3MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1851.5	2.904	2.886	2.922
1880	2.886	2.913	2.895
1908.5	2.904	2.895	2.904

LTE Band 2 , 3MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 2 , 3MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 2 , 3MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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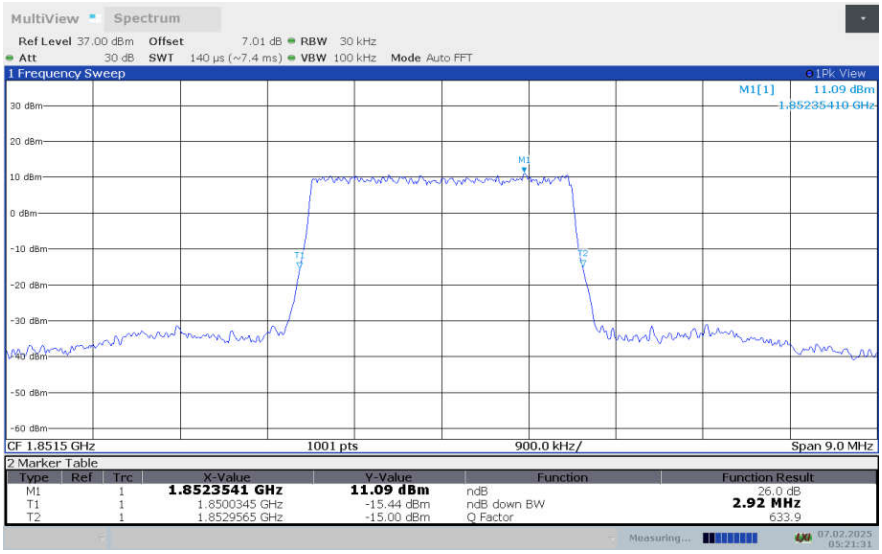
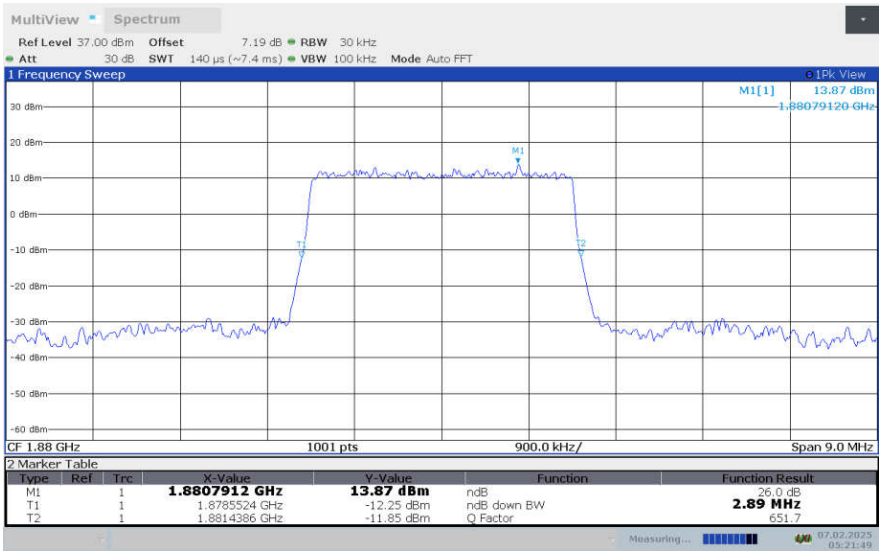


LTE Band 2 , 3MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 2 , 3MHz Bandwidth,MID,16QAM (-26dBc OBW)

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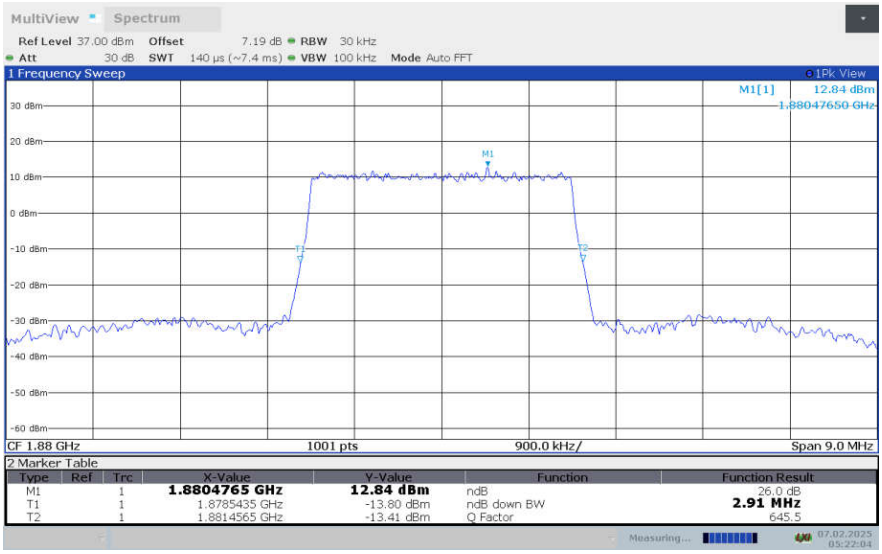
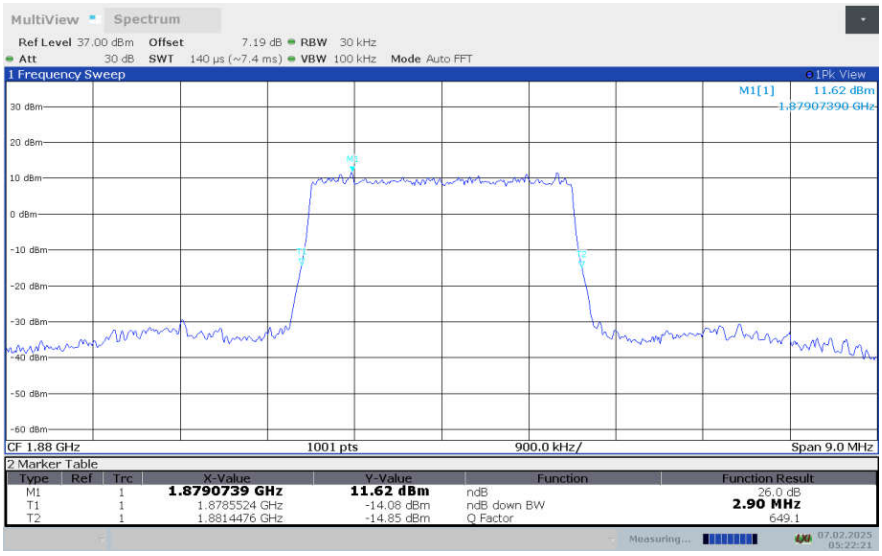


LTE Band 2 , 3MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 2 , 3MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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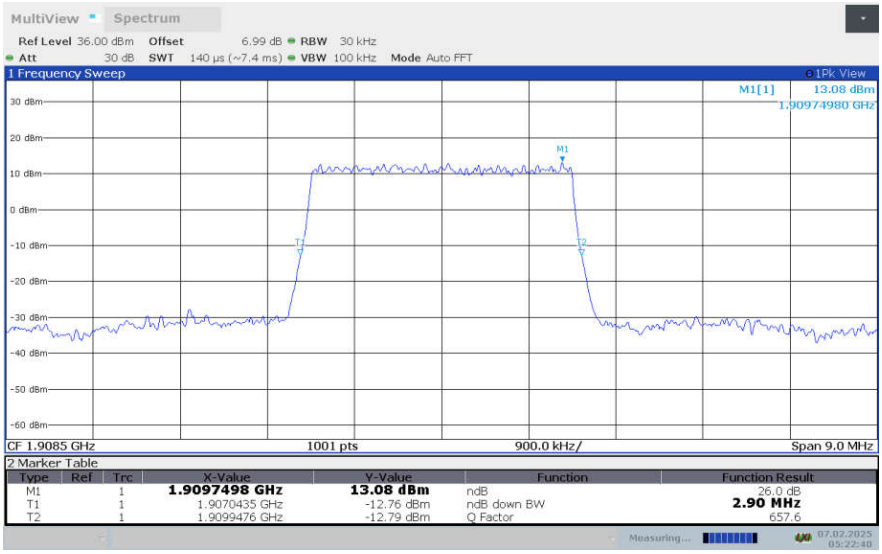
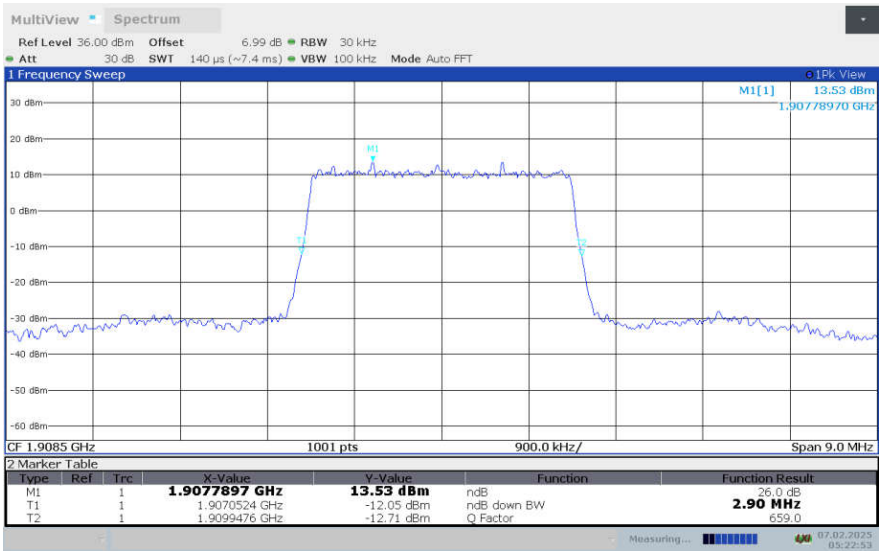


LTE Band 2 , 3MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 2 , 3MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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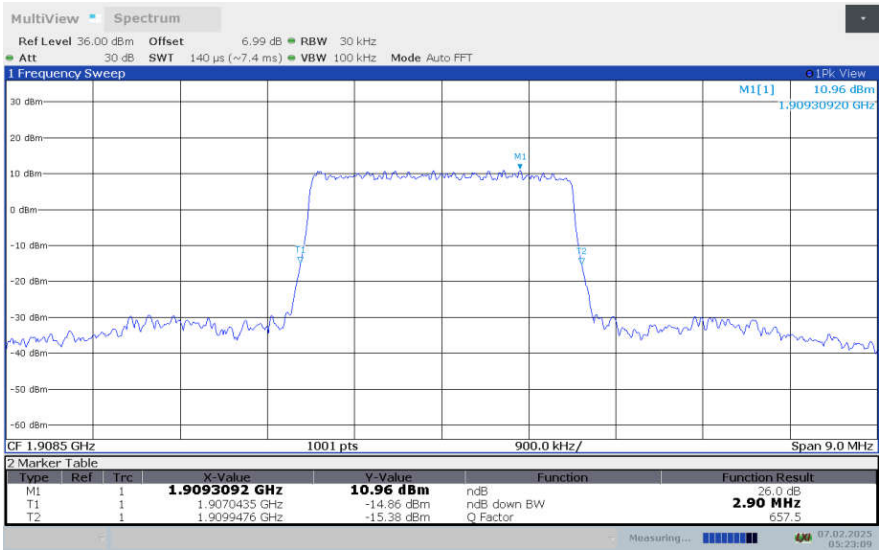

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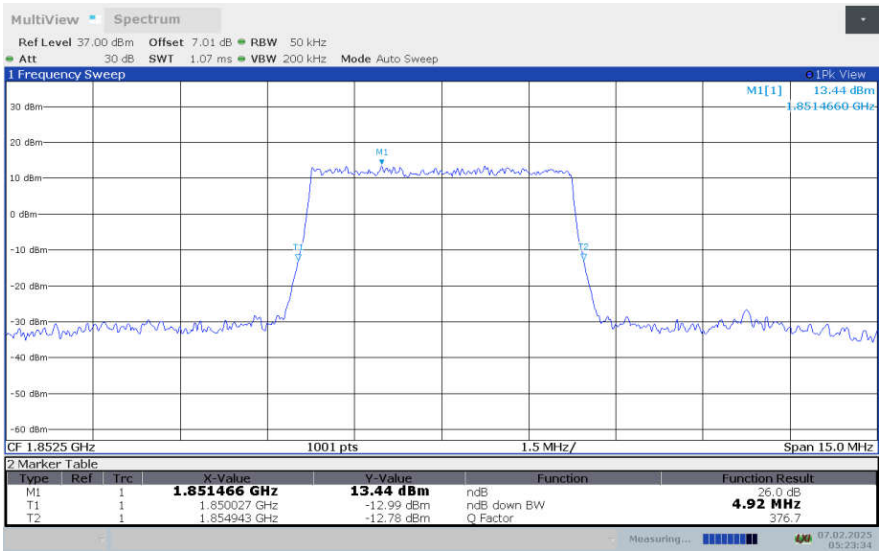
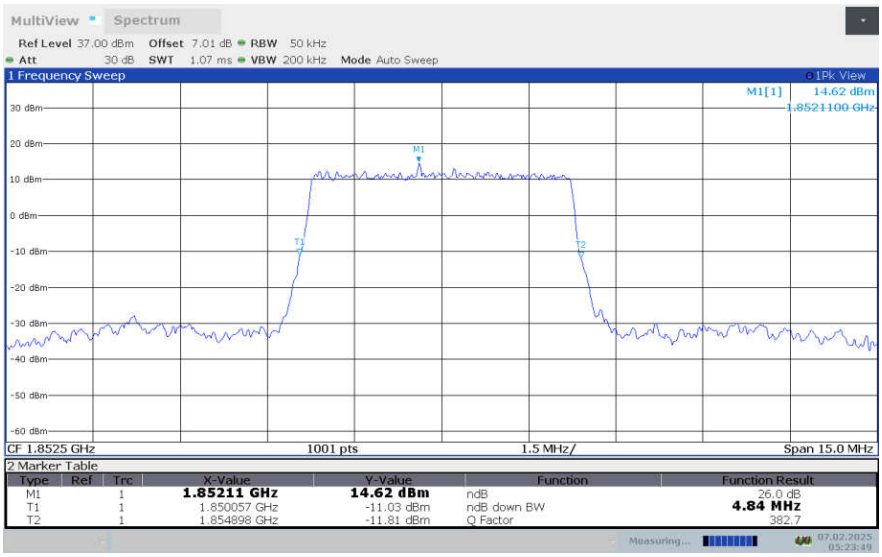
LTE Band 2,5MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1852.5	4.915	4.840	4.885
1880	4.885	4.900	4.900
1907.5	4.885	4.900	4.855

LTE Band 2 , 5MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 2 , 5MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 2 , 5MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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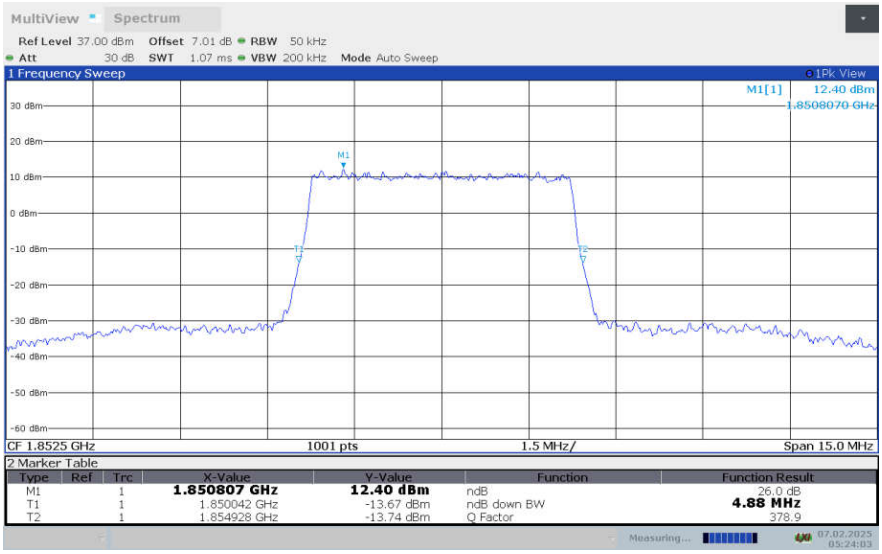
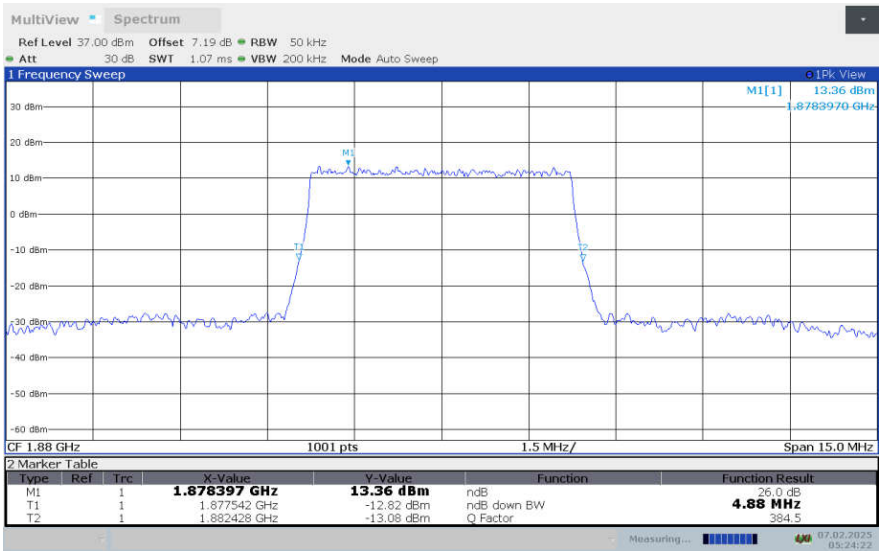


LTE Band 2 , 5MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 2 , 5MHz Bandwidth,MID,16QAM (-26dBc OBW)

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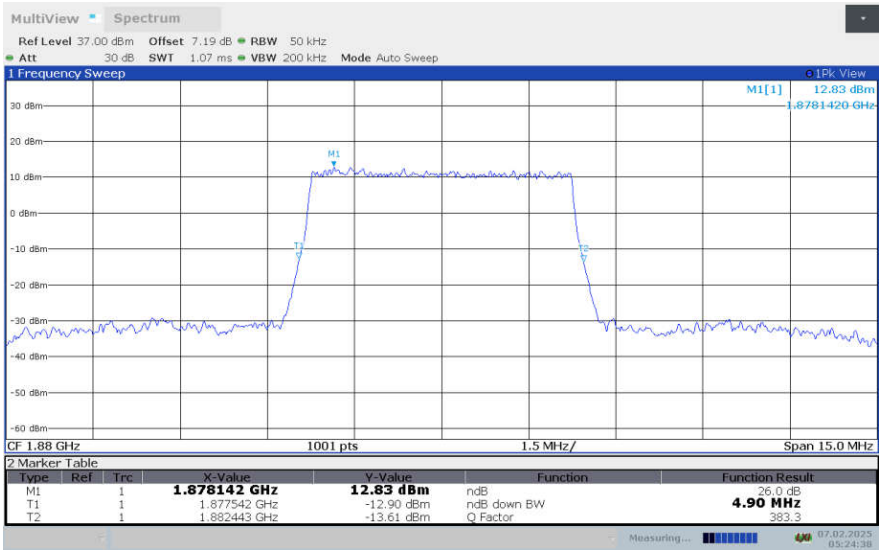
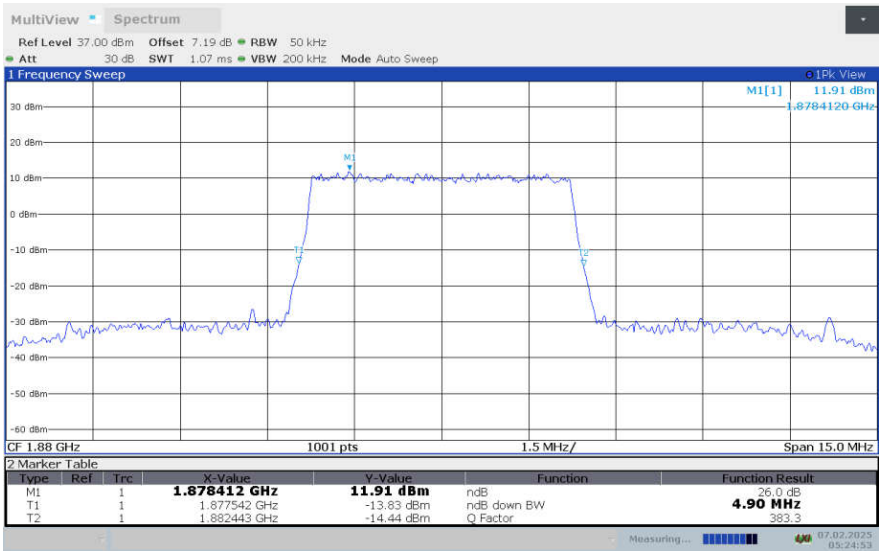


LTE Band 2 , 5MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 2 , 5MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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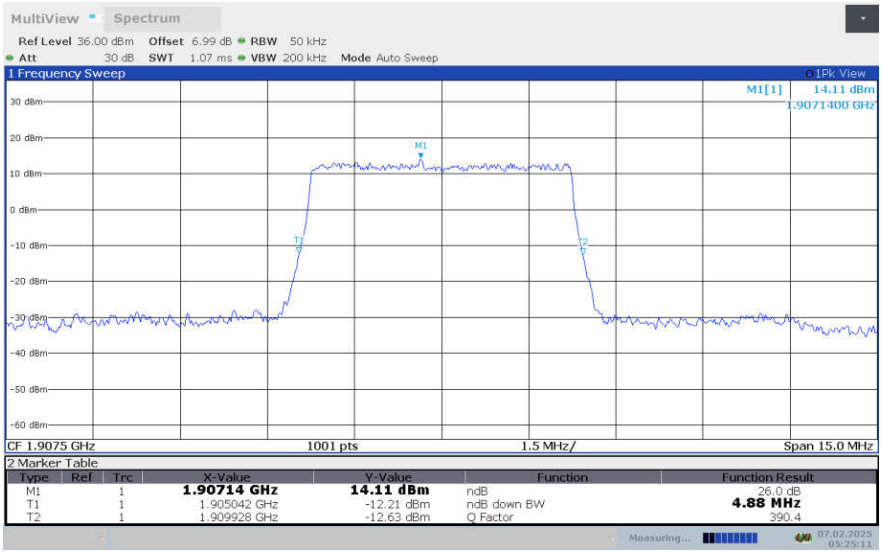
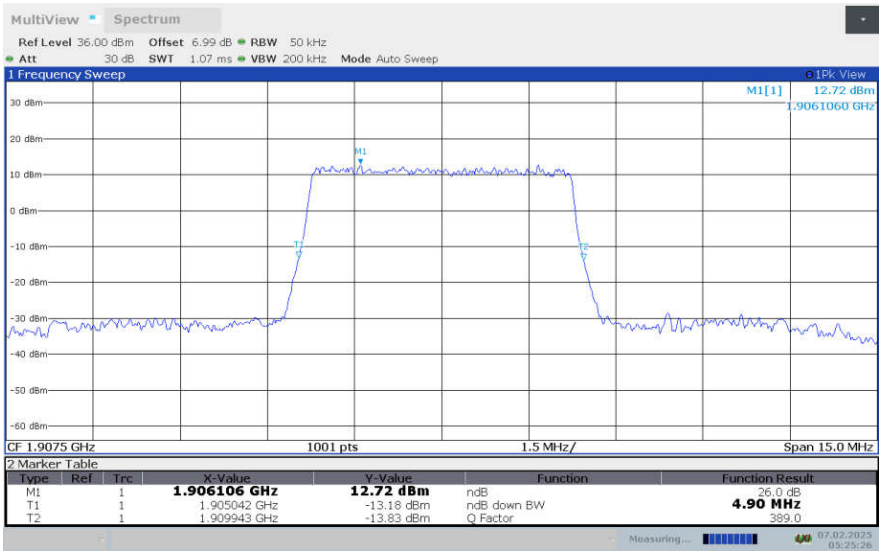


LTE Band 2 , 5MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 2 , 5MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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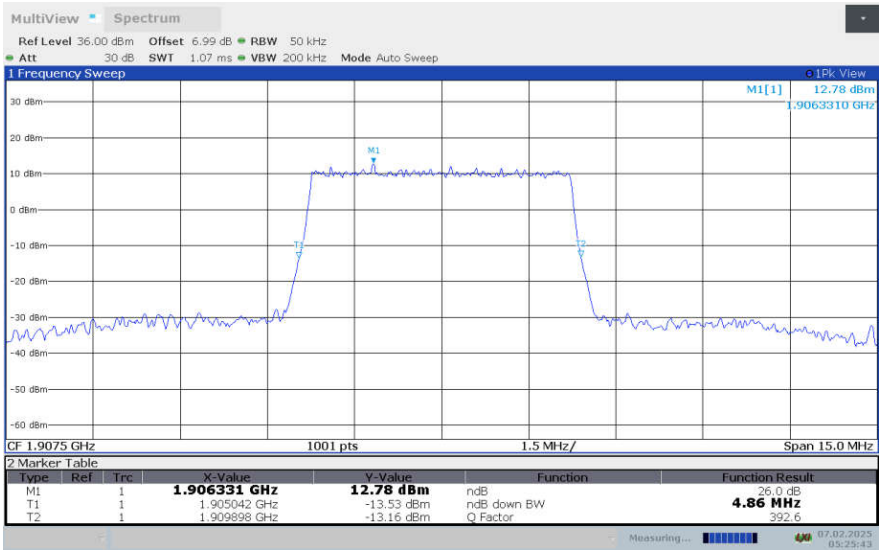

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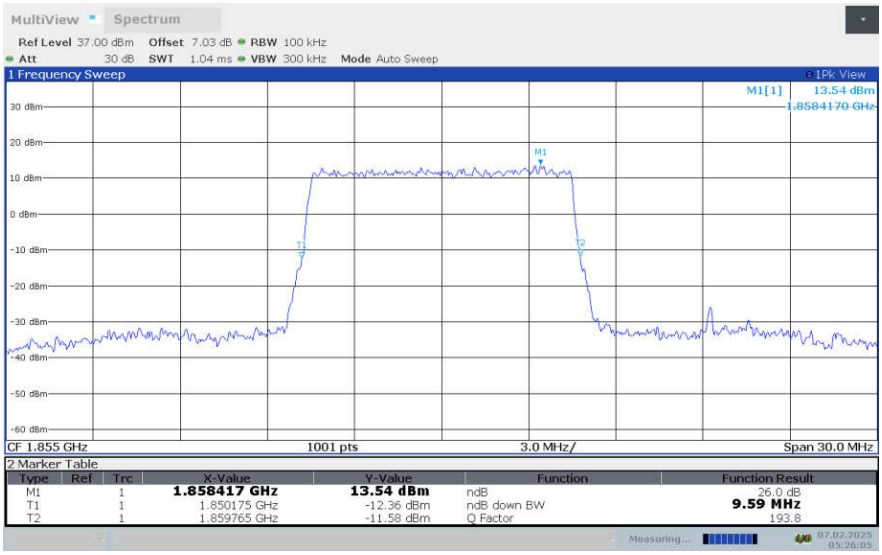
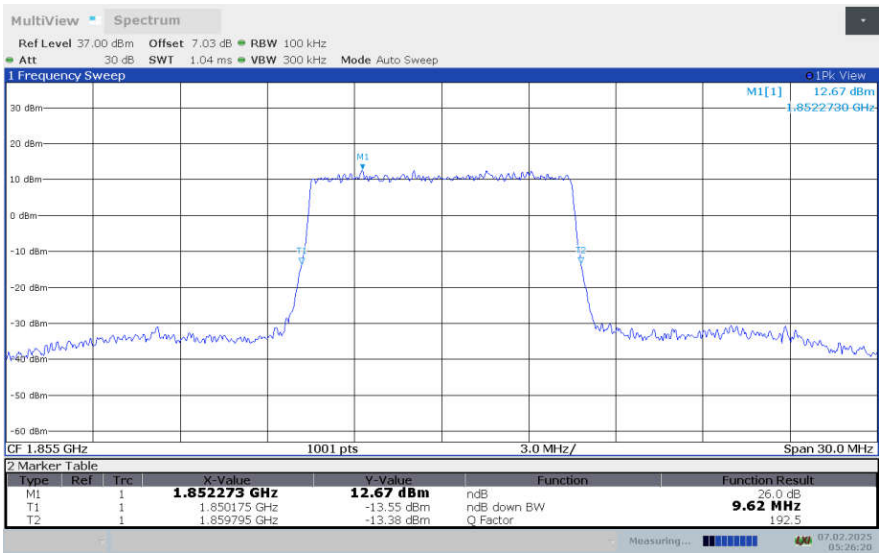
LTE Band 2,10MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1855	9.590	9.620	9.650
1880	9.620	9.620	9.620
1905	9.680	9.590	9.620

LTE Band 2 , 10MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 2 , 10MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 2 , 10MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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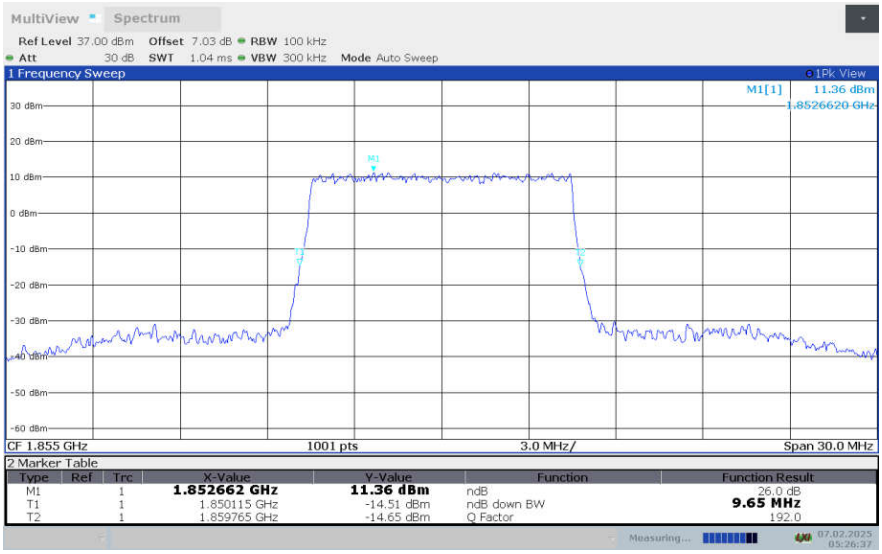
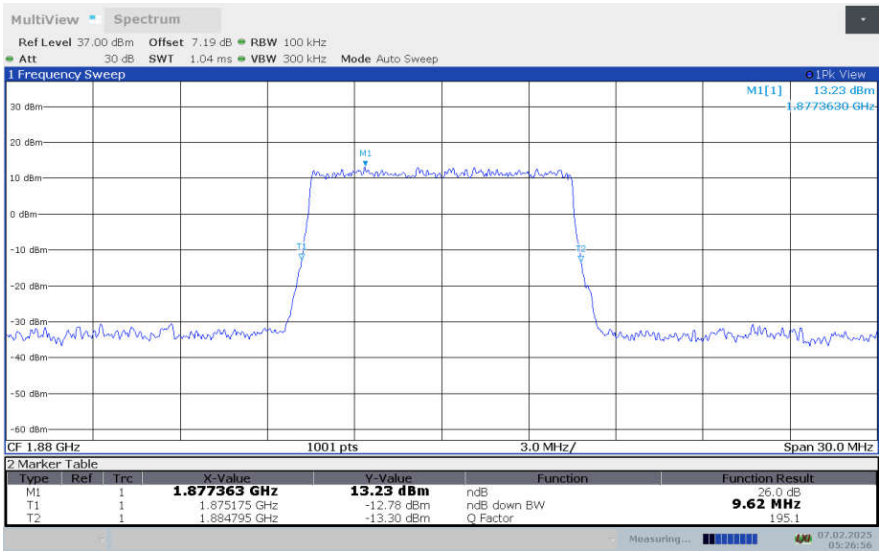


LTE Band 2 , 10MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 2 , 10MHz Bandwidth,MID,16QAM (-26dBc OBW)

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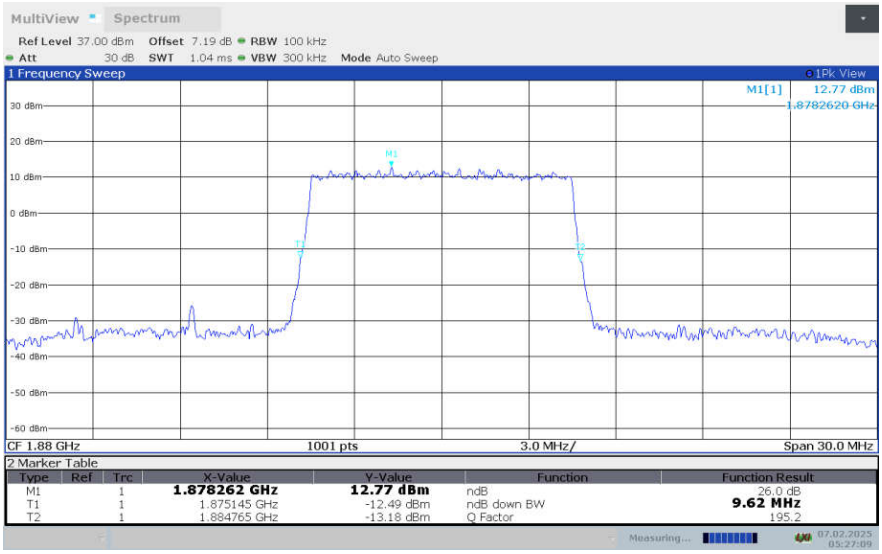
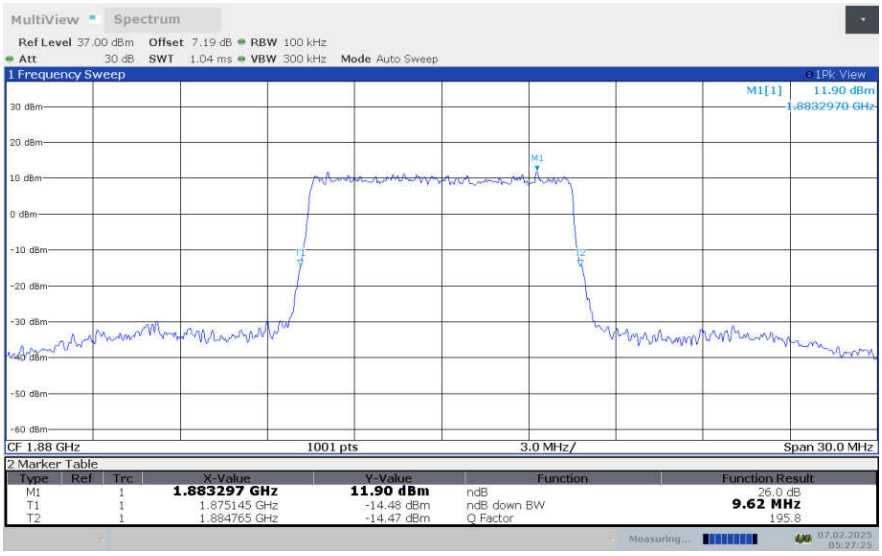


LTE Band 2 , 10MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 2 , 10MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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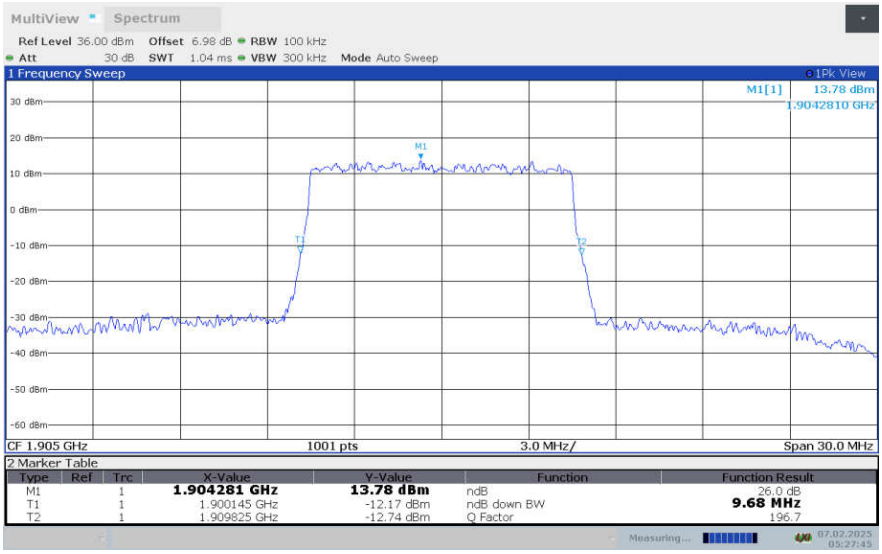
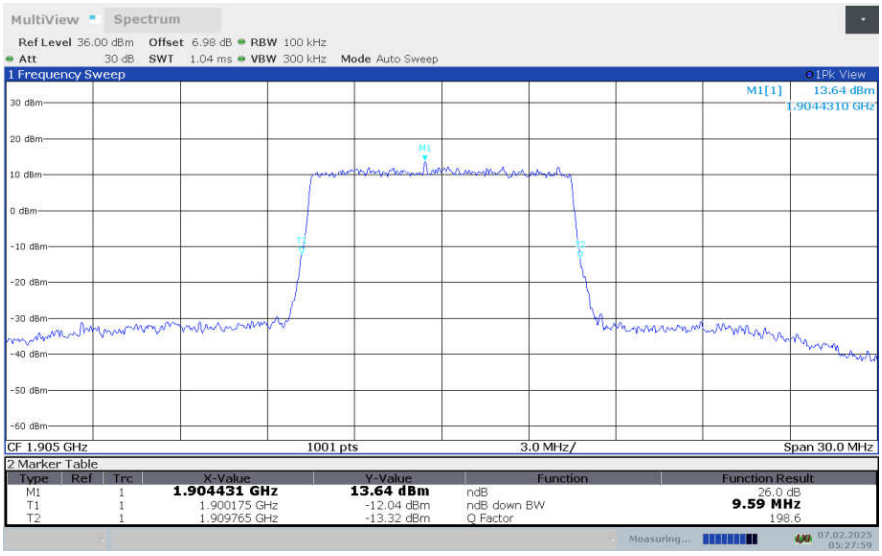


LTE Band 2 , 10MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 2 , 10MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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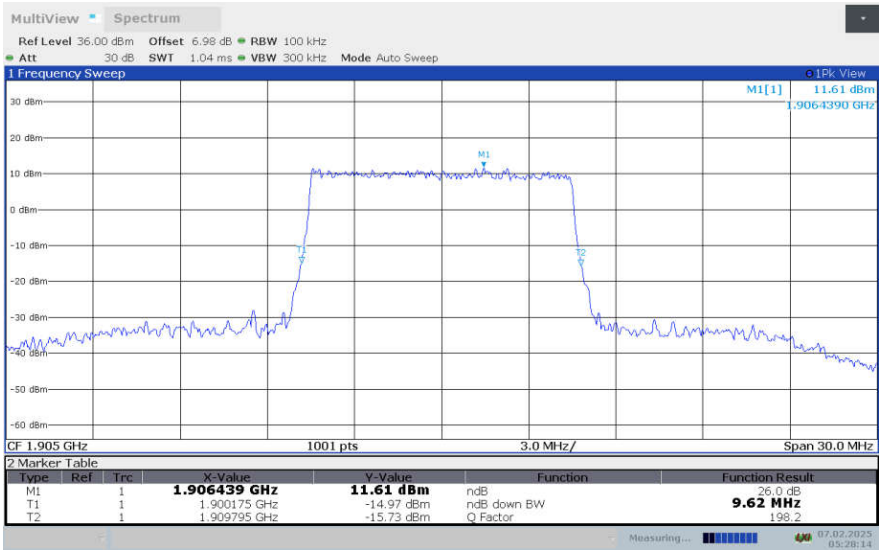

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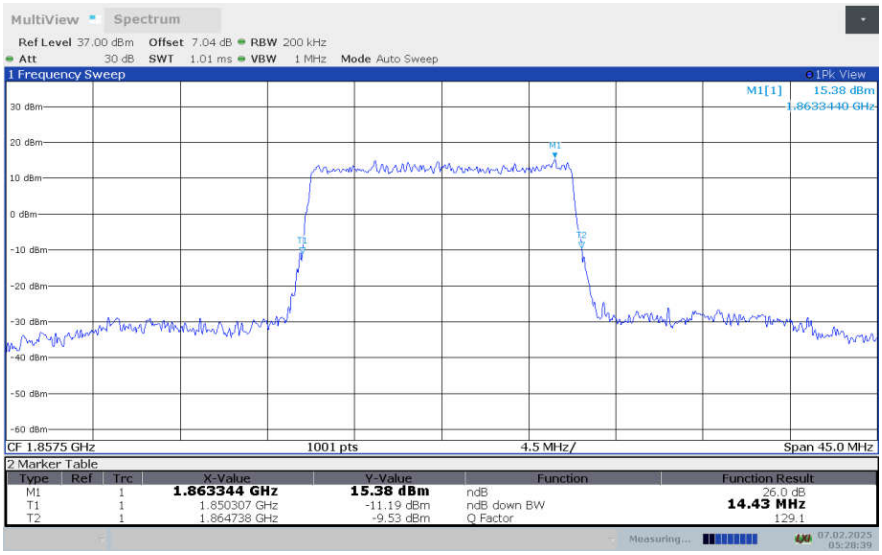
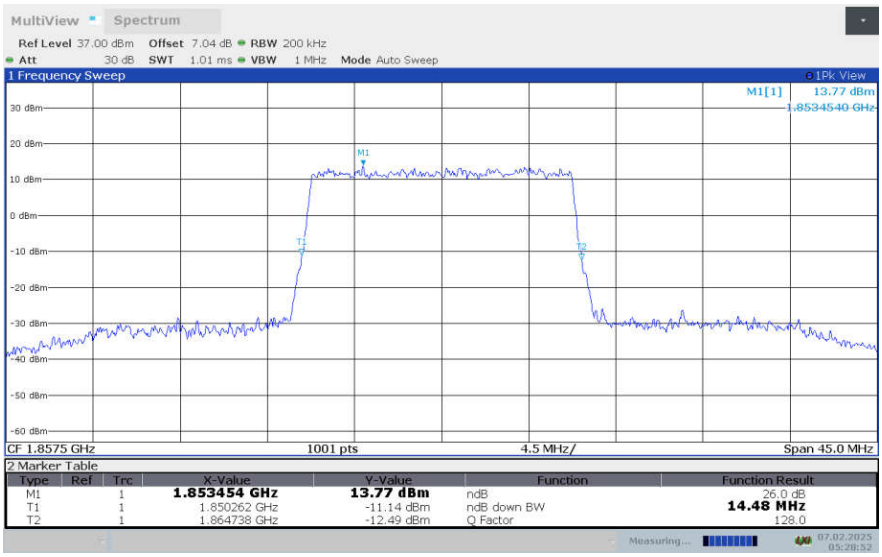
LTE Band 2,15MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1857.5	14.431	14.476	14.520
1880	14.476	14.476	14.565
1902.5	14.520	14.386	14.520

LTE Band 2 , 15MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 2 , 15MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 2 , 15MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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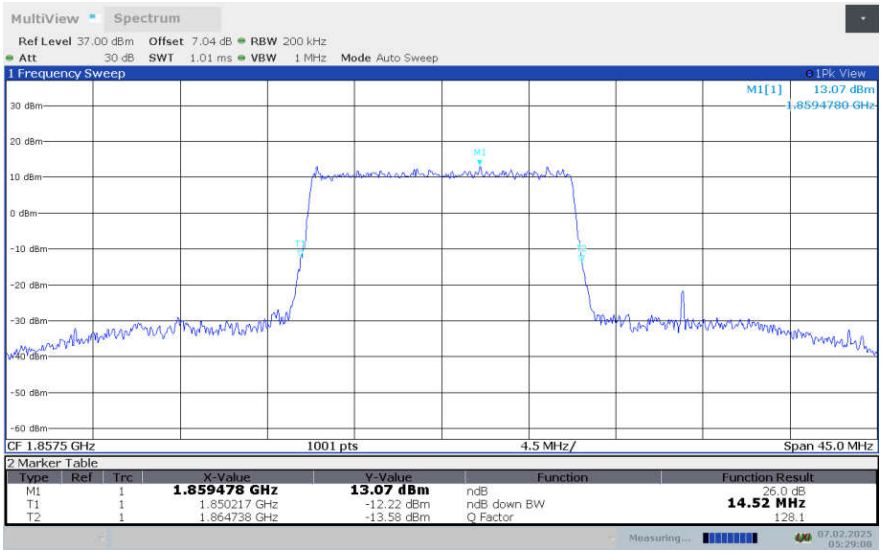
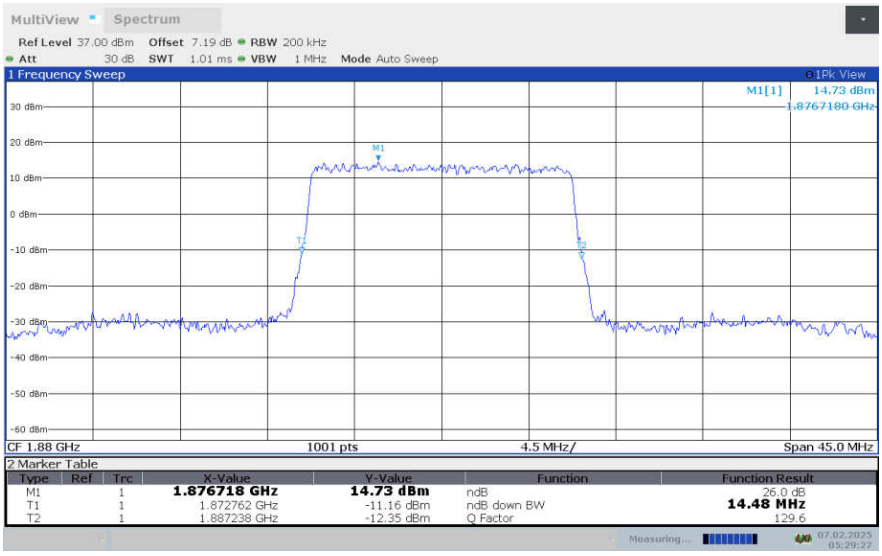


LTE Band 2 , 15MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 2 , 15MHz Bandwidth,MID,16QAM (-26dBc OBW)

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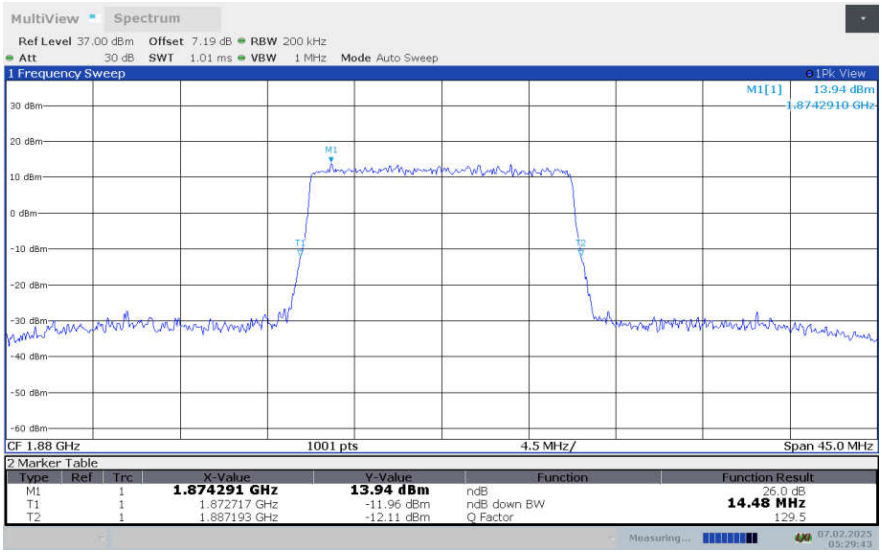
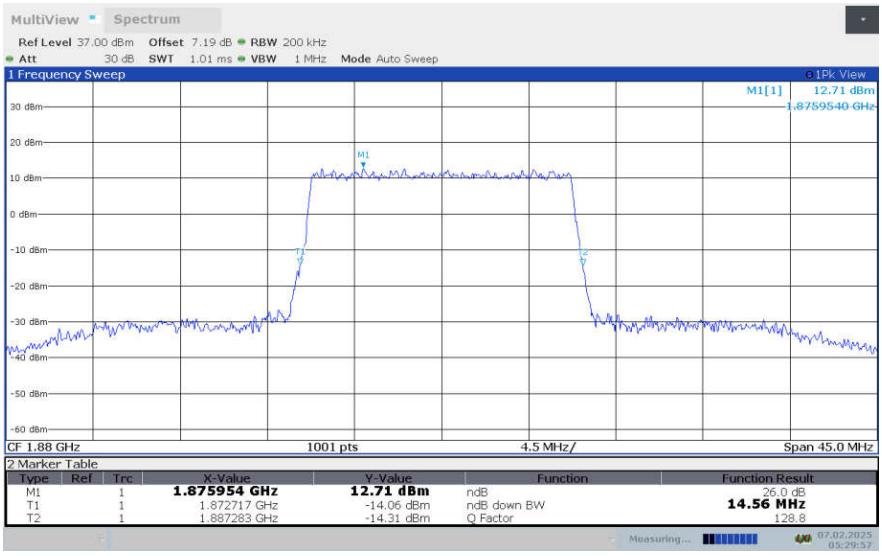


LTE Band 2 , 15MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 2 , 15MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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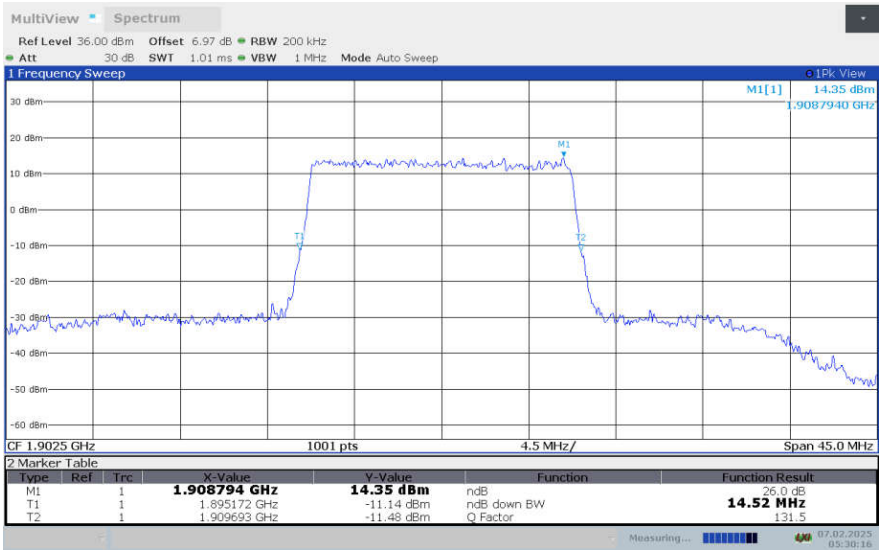
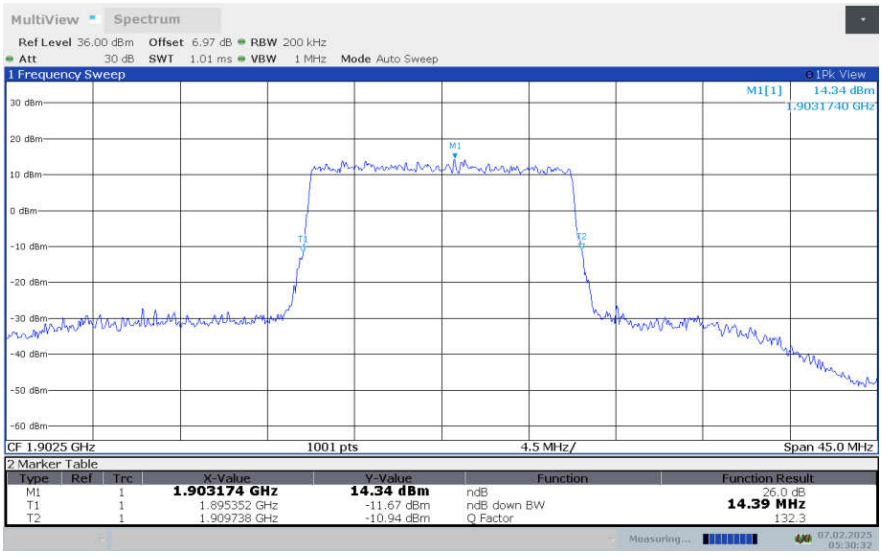


LTE Band 2 , 15MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 2 , 15MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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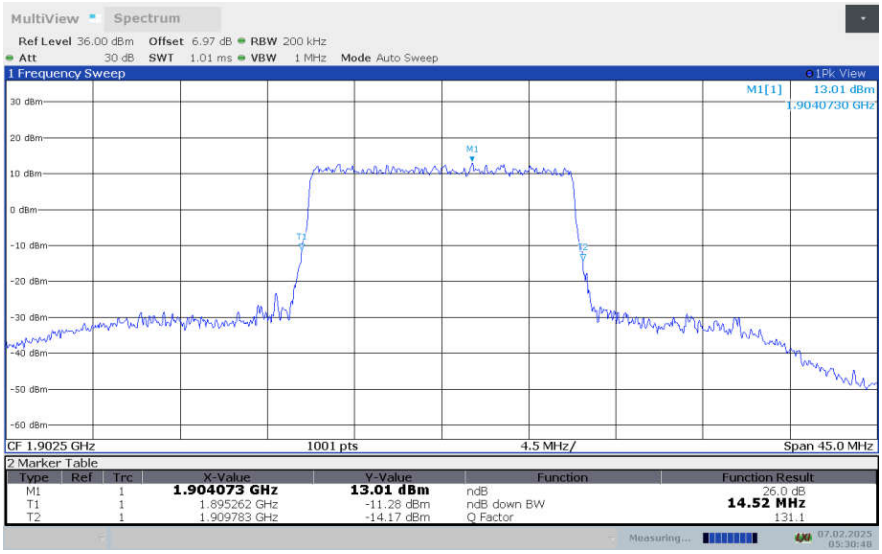

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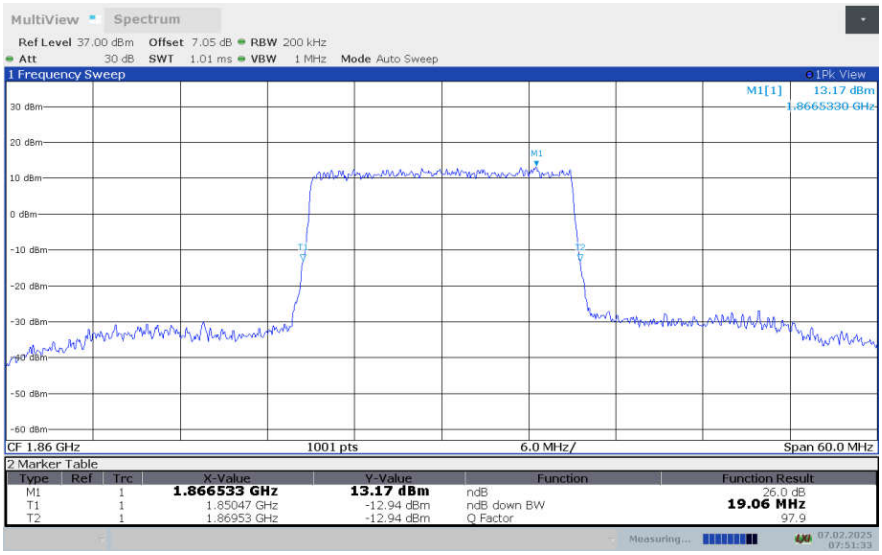
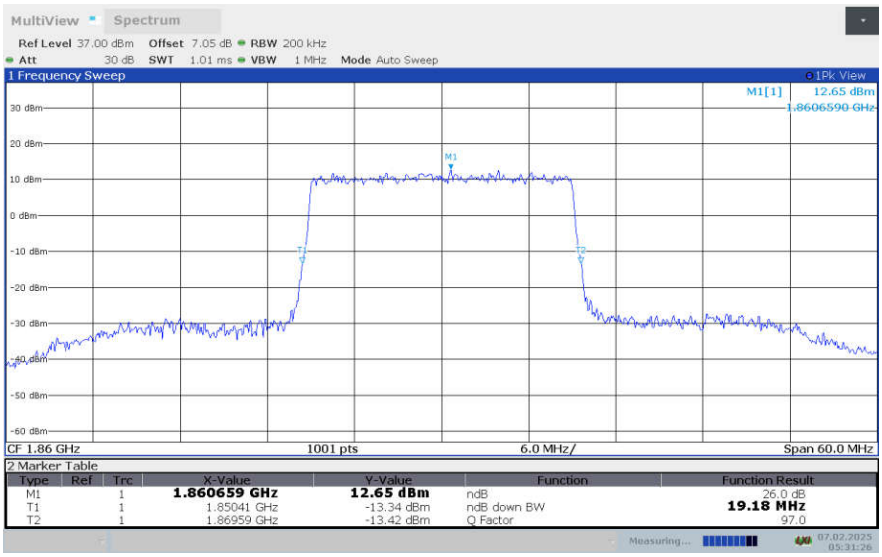
LTE Band 2,20MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1860	19.061	19.181	19.061
1880	19.001	19.181	19.001
1900	19.061	19.061	19.001

LTE Band 2 , 20MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 2 , 20MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 2 , 20MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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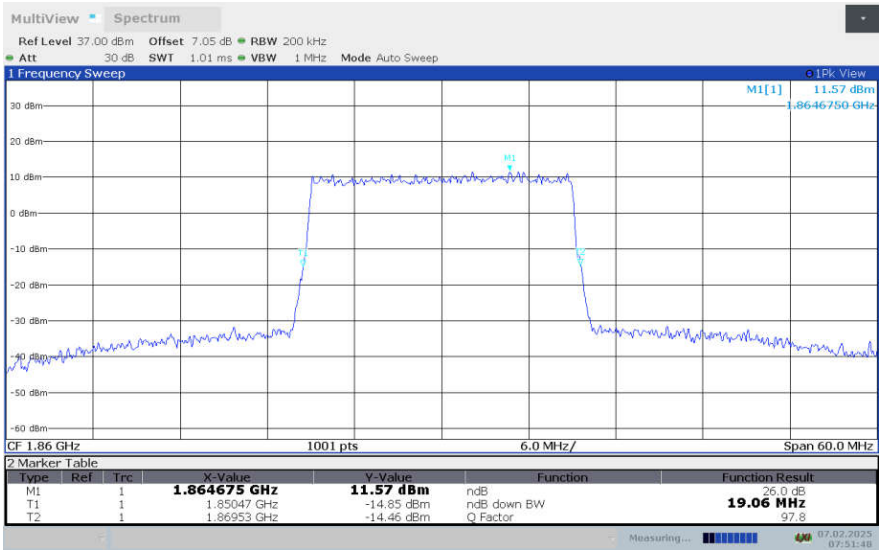
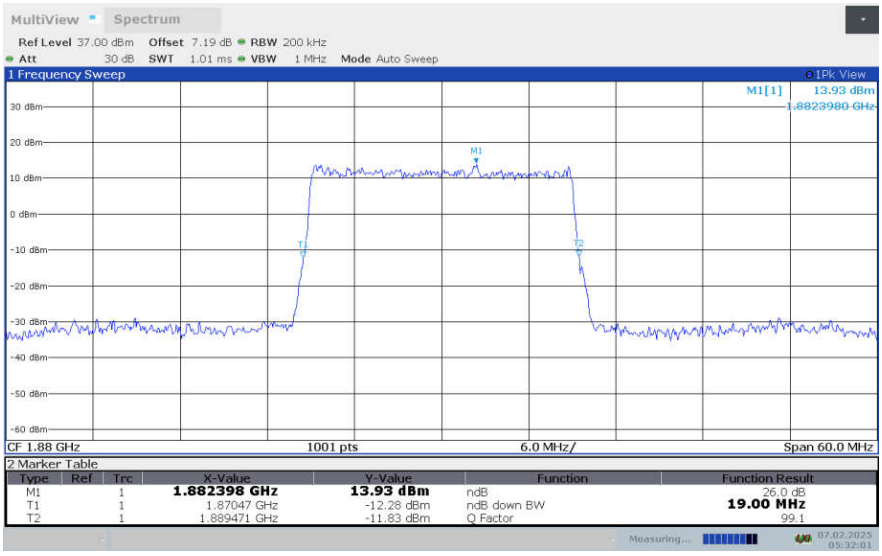


LTE Band 2 , 20MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 2 , 20MHz Bandwidth,MID,16QAM (-26dBc OBW)

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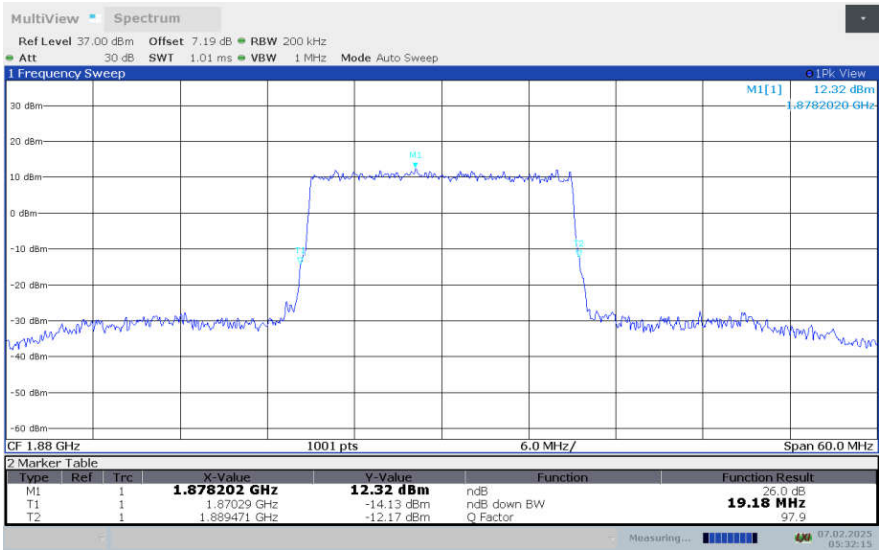
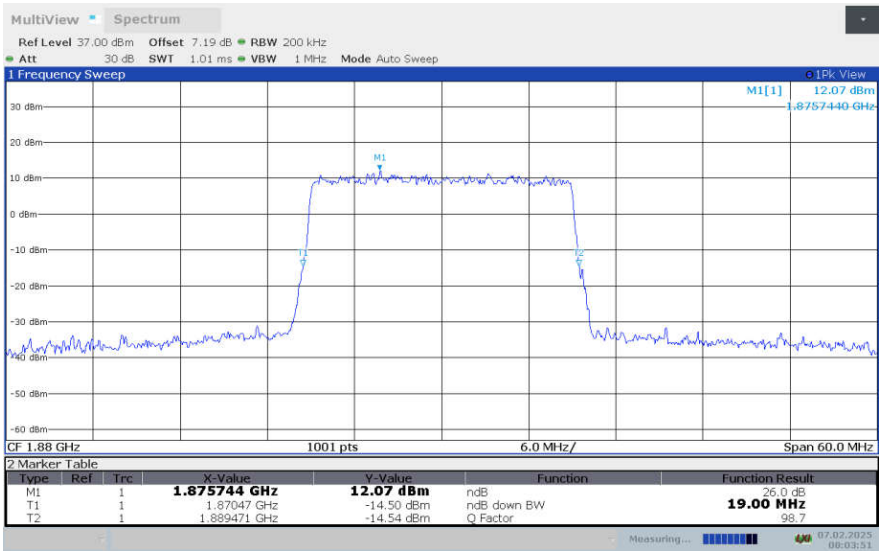


LTE Band 2 , 20MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 2 , 20MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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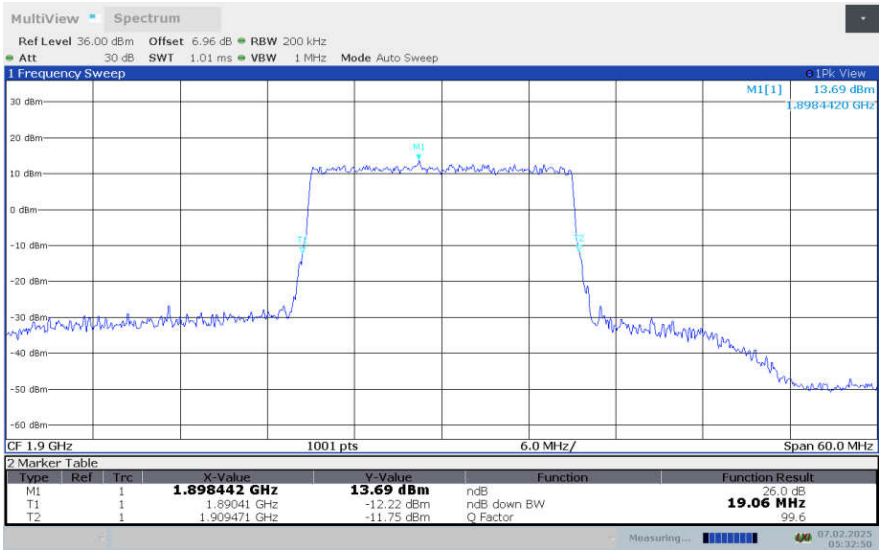
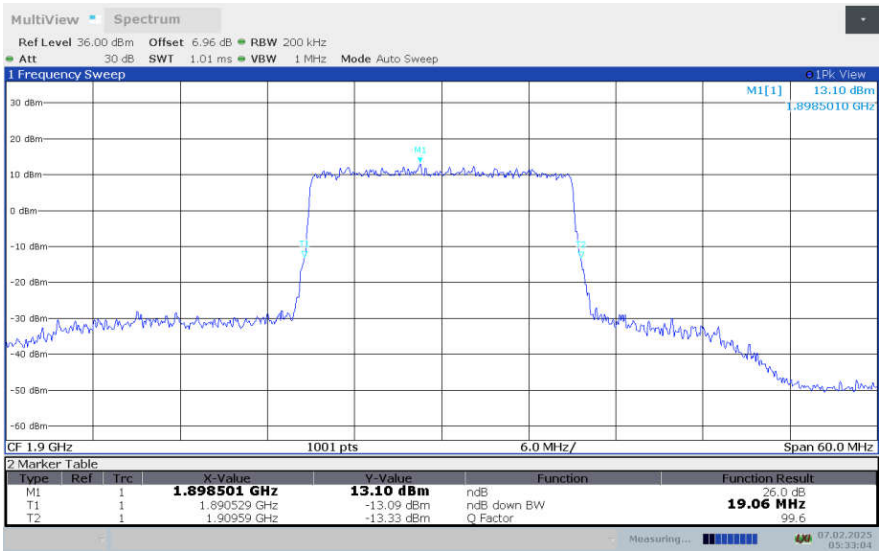


LTE Band 2 , 20MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 2 , 20MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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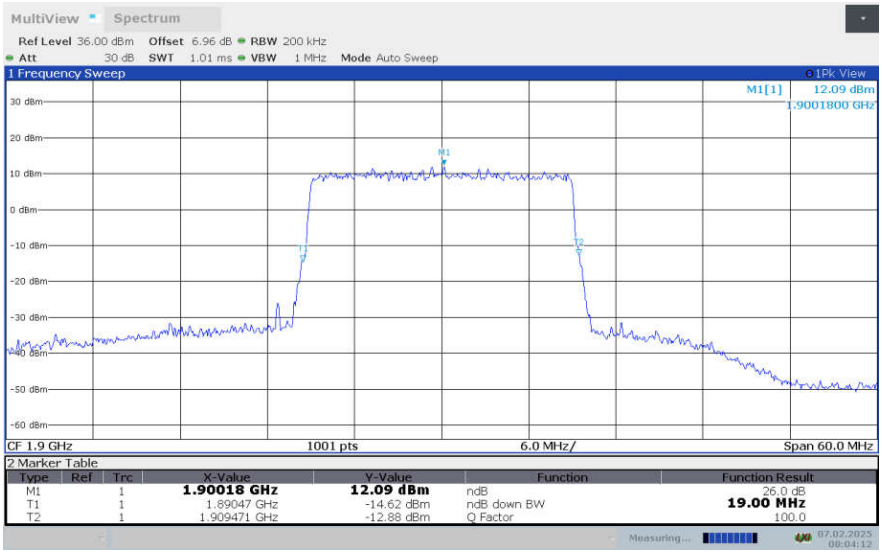

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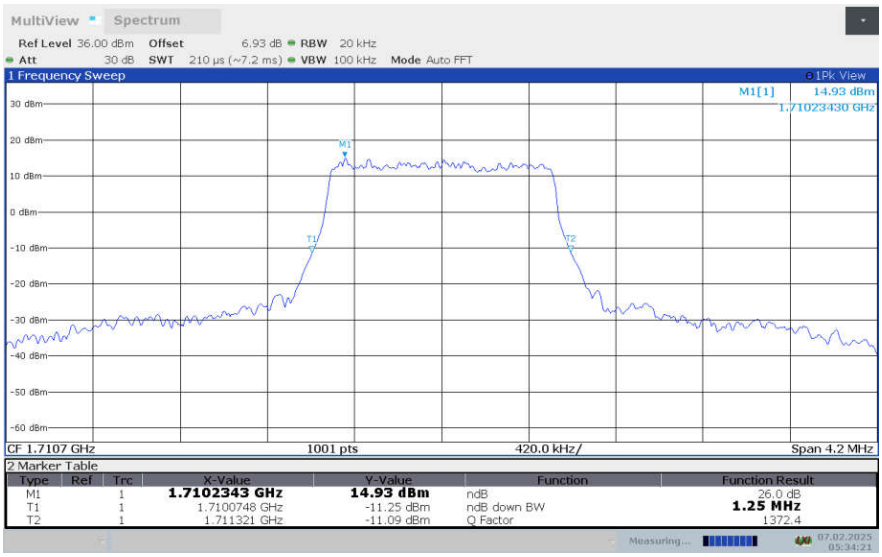
LTE Band 4,1.4MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1710.7	1.267	1.246	1.284
1732.5	1.259	1.267	1.263
1754.3	1.250	1.292	1.280

LTE Band 4 , 1.4MHz Bandwidth,LOW,QPSK (-26dBc OBW)

LTE Band 4 , 1.4MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 4 , 1.4MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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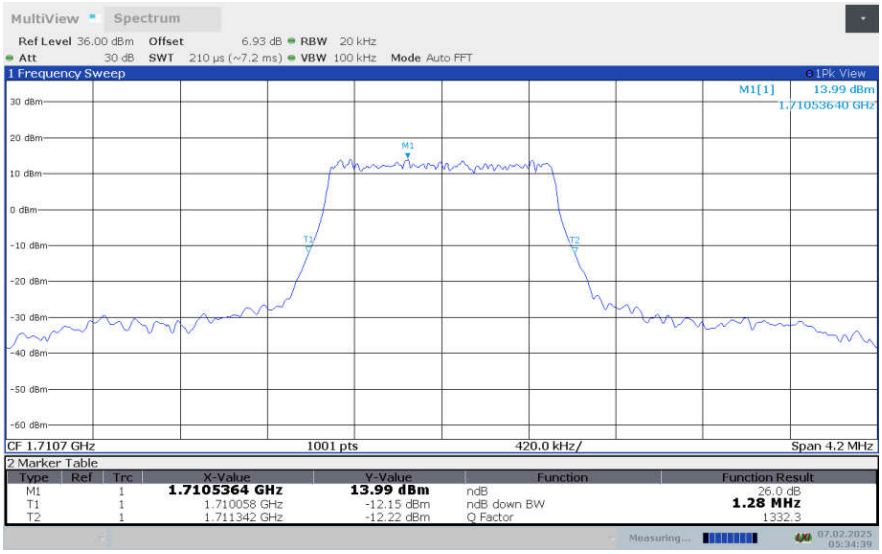
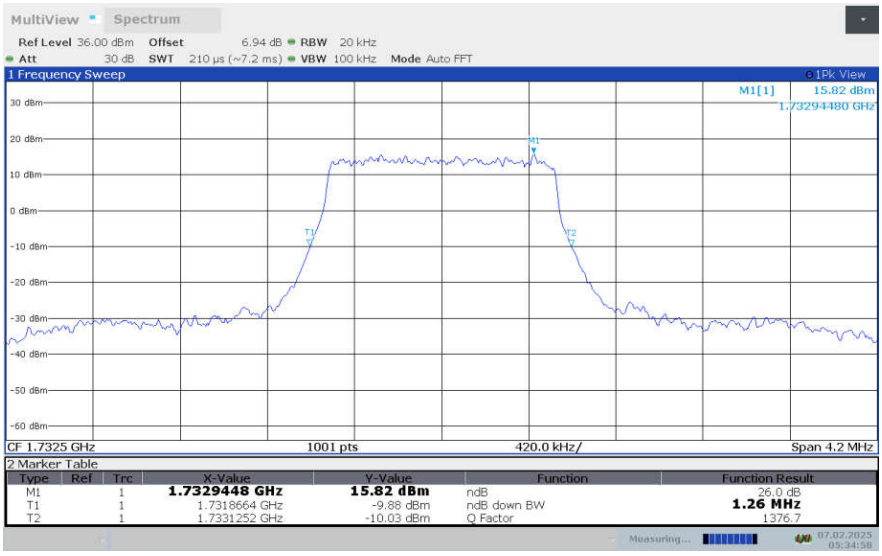


LTE Band 4 , 1.4MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 4 , 1.4MHz Bandwidth,MID,16QAM (-26dBc OBW)

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LTE Band 4 , 1.4MHz Bandwidth,MID,64QAM (-26dBc OBW)

LTE Band 4 , 1.4MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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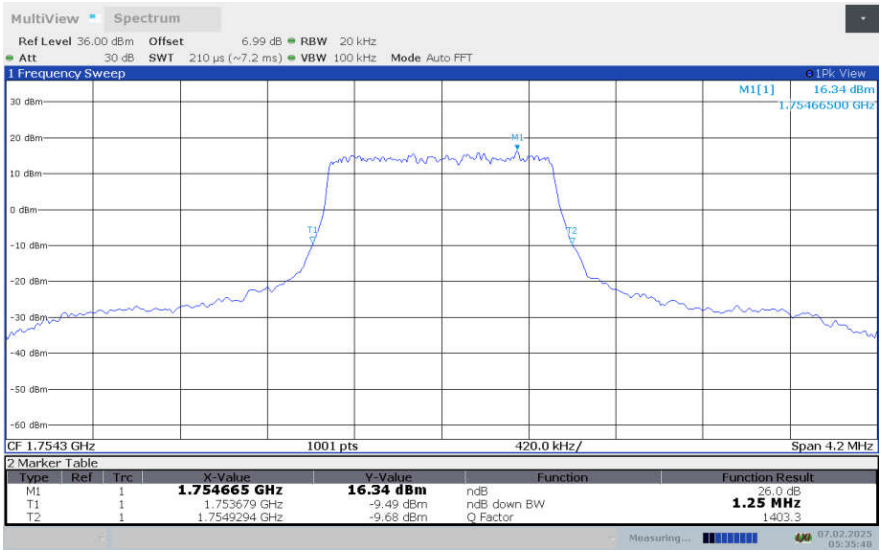
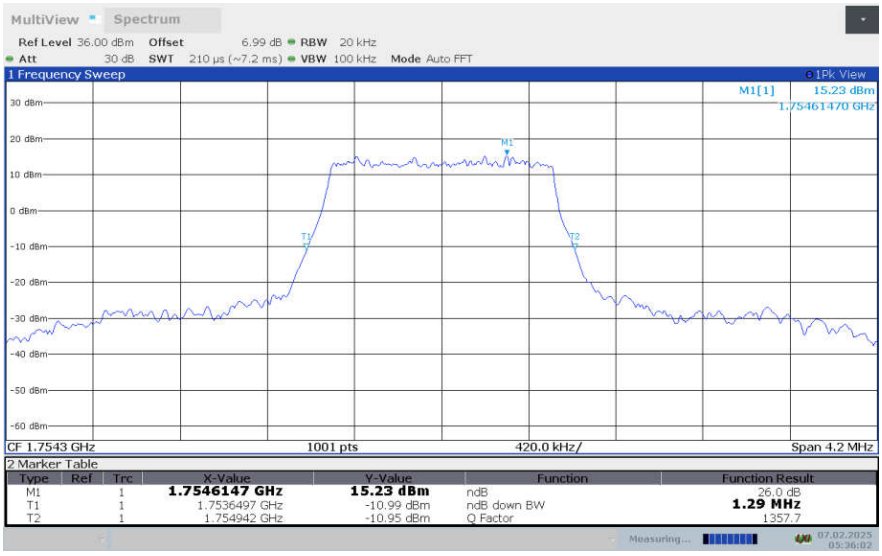


LTE Band 4 , 1.4MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 4 , 1.4MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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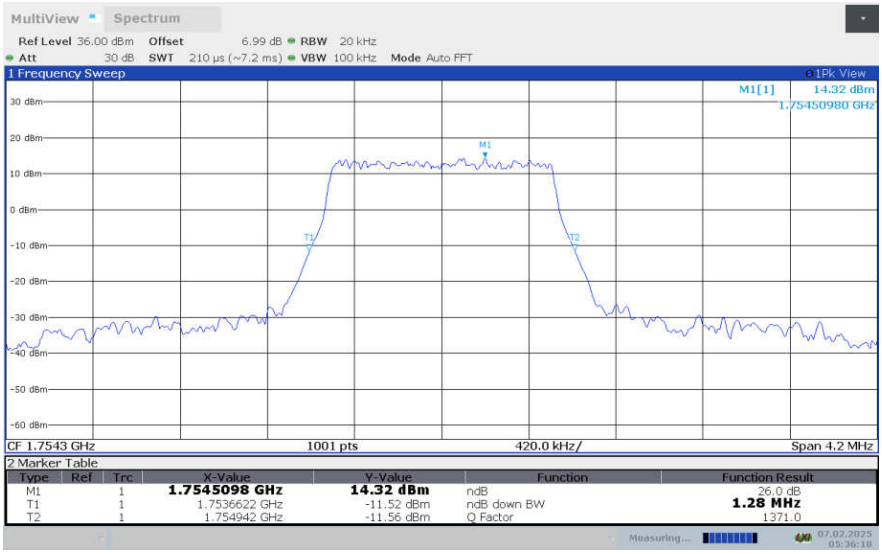

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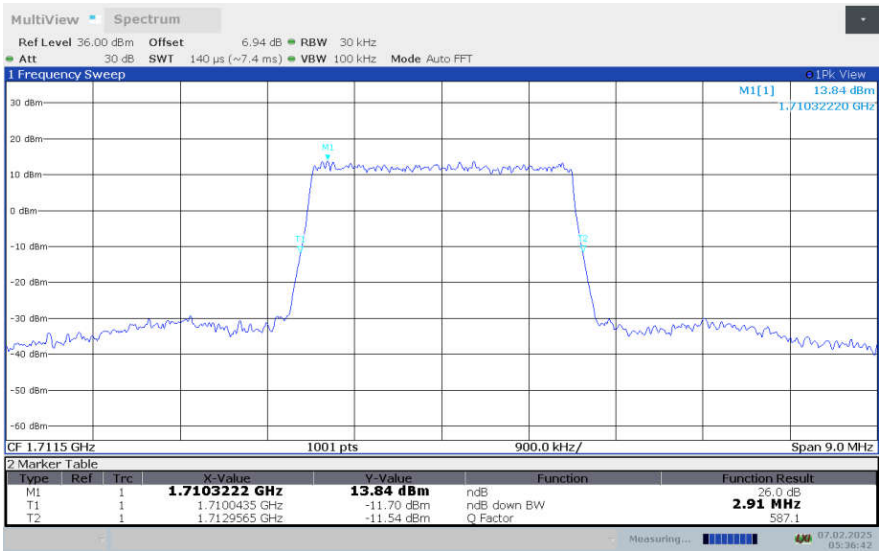
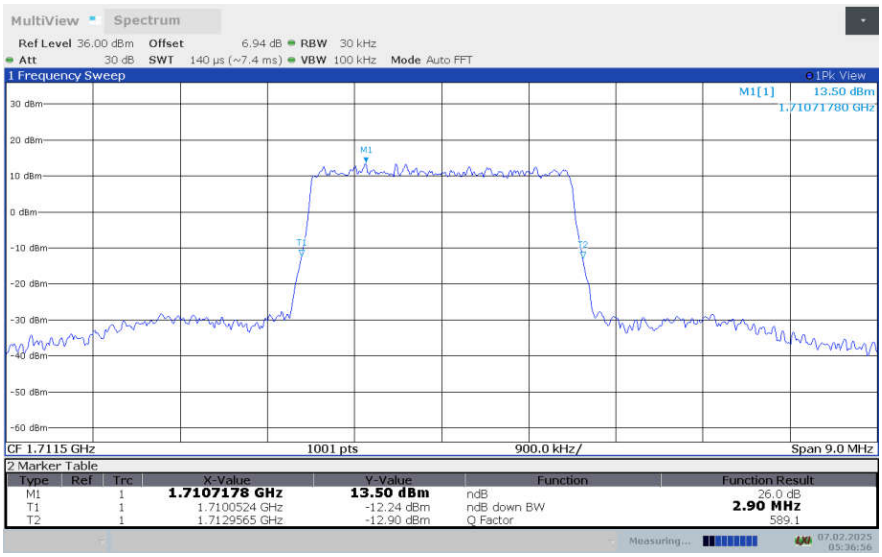
LTE Band 4,3MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1711.5	2.913	2.904	2.922
1732.5	2.913	2.895	2.886
1753.5	2.904	2.904	2.895

LTE Band 4 , 3MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 4 , 3MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 4 , 3MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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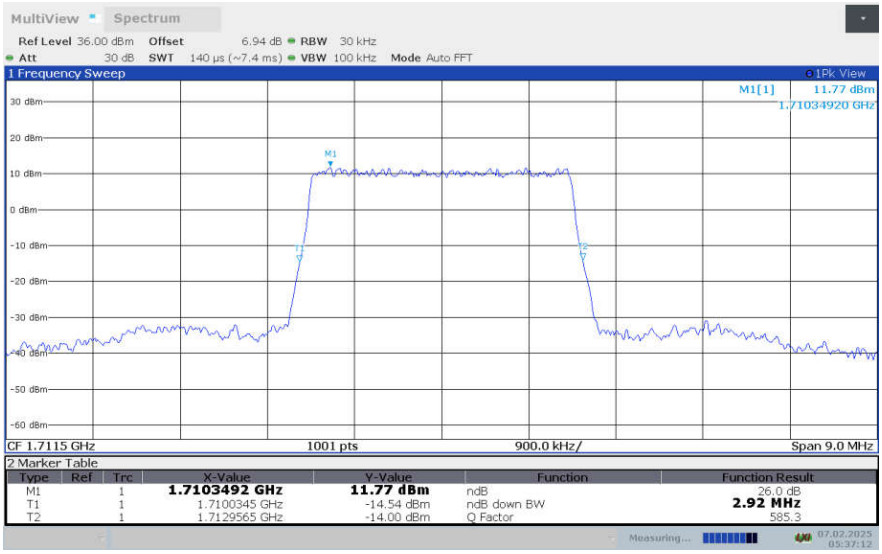
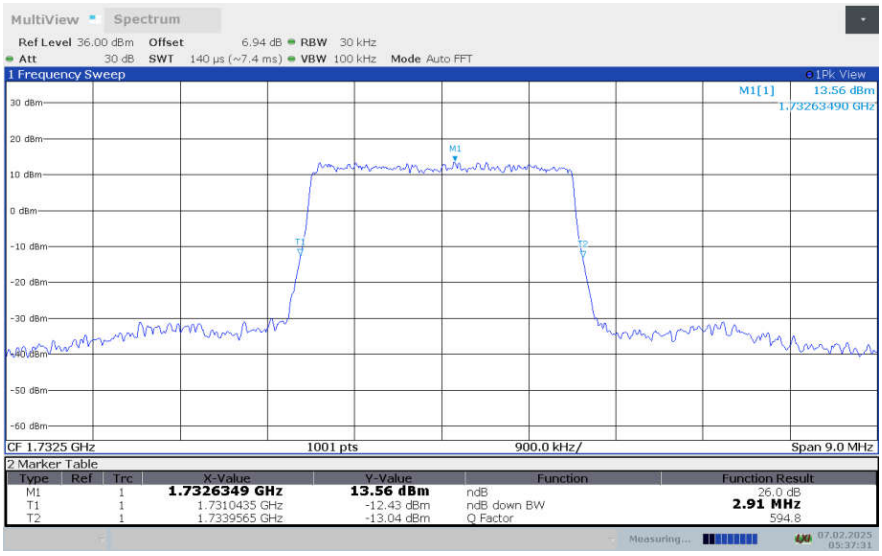


LTE Band 4 , 3MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 4 , 3MHz Bandwidth,MID,16QAM (-26dBc OBW)

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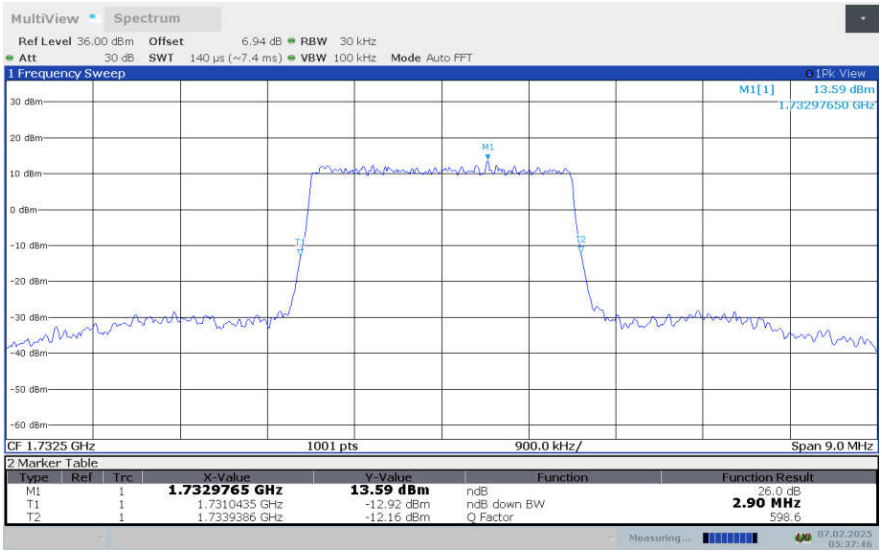
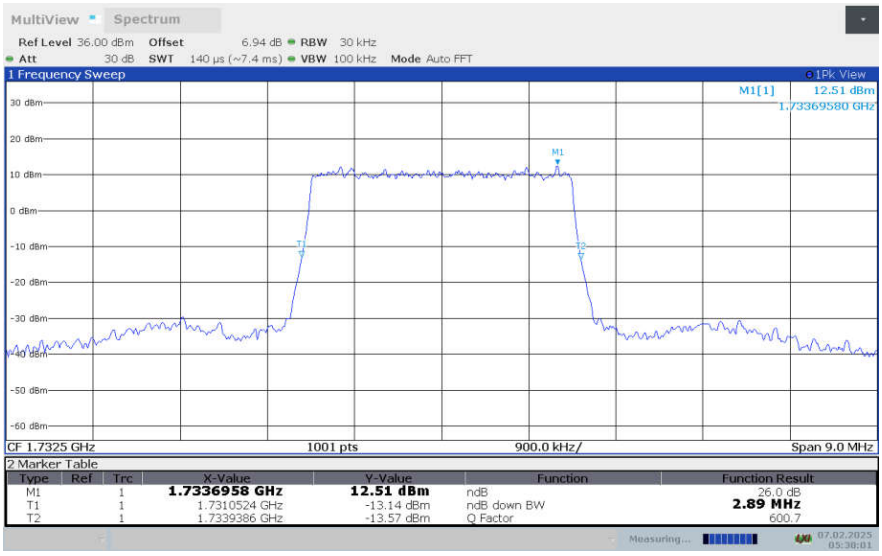


LTE Band 4 , 3MHz Bandwidth,MID,64QAM (-26dBc OBW)



LTE Band 4 , 3MHz Bandwidth,HIGH,QPSK (-26dBc OBW)

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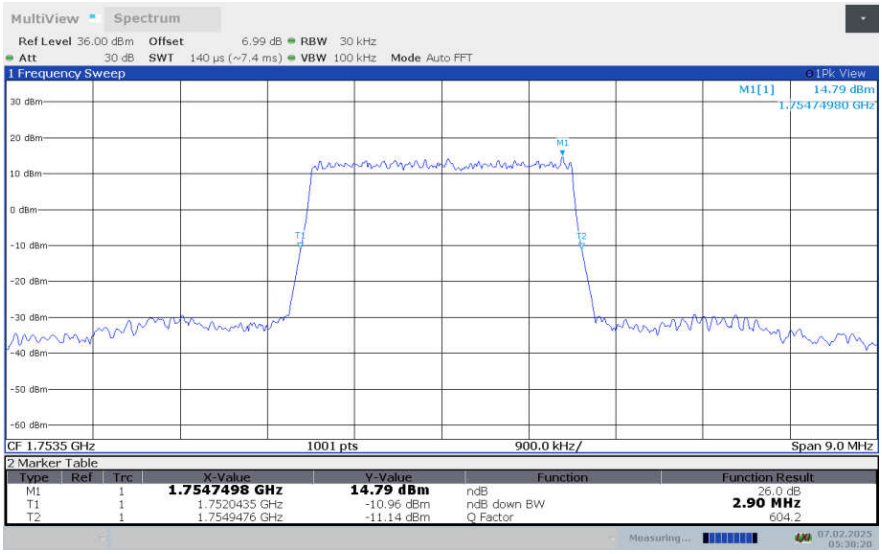
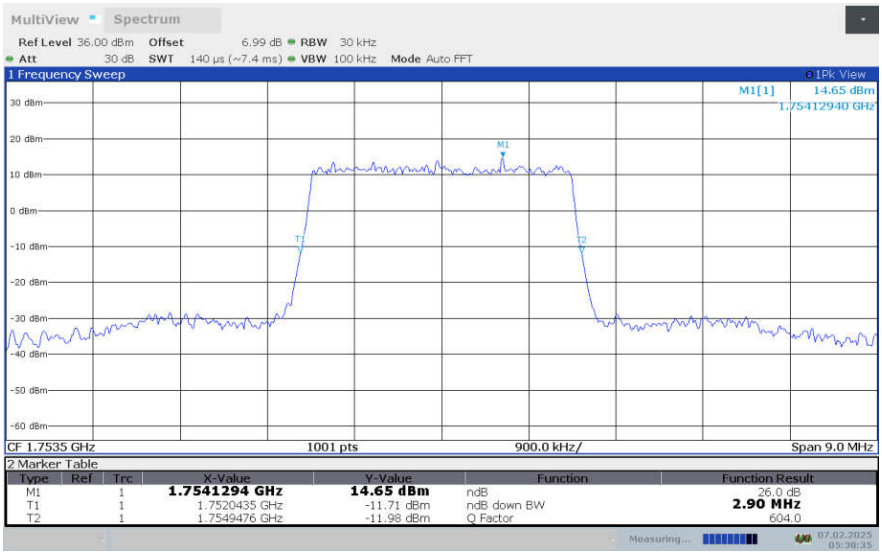


LTE Band 4 , 3MHz Bandwidth,HIGH,16QAM (-26dBc OBW)



LTE Band 4 , 3MHz Bandwidth,HIGH,64QAM (-26dBc OBW)

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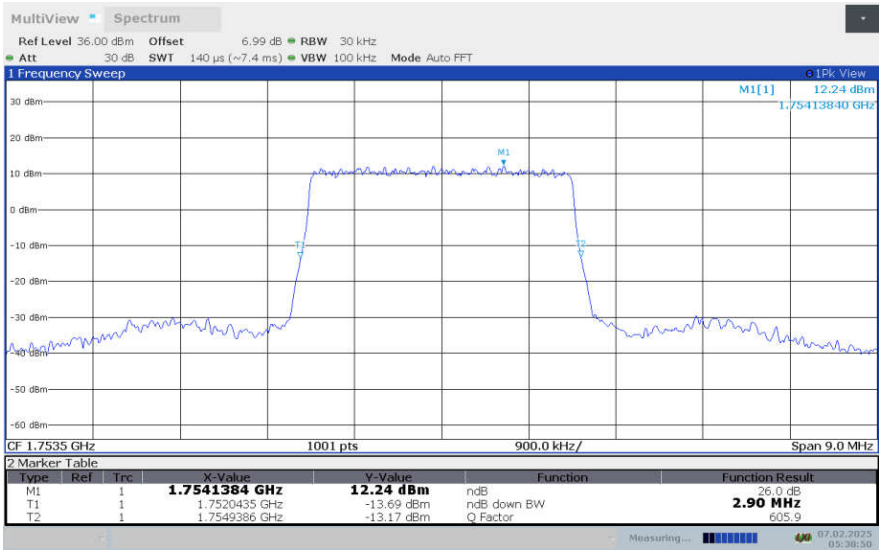

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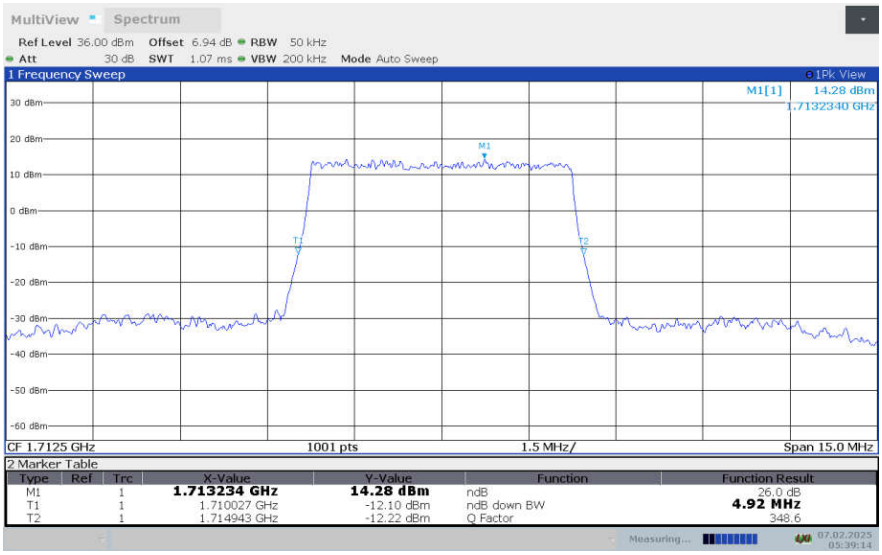
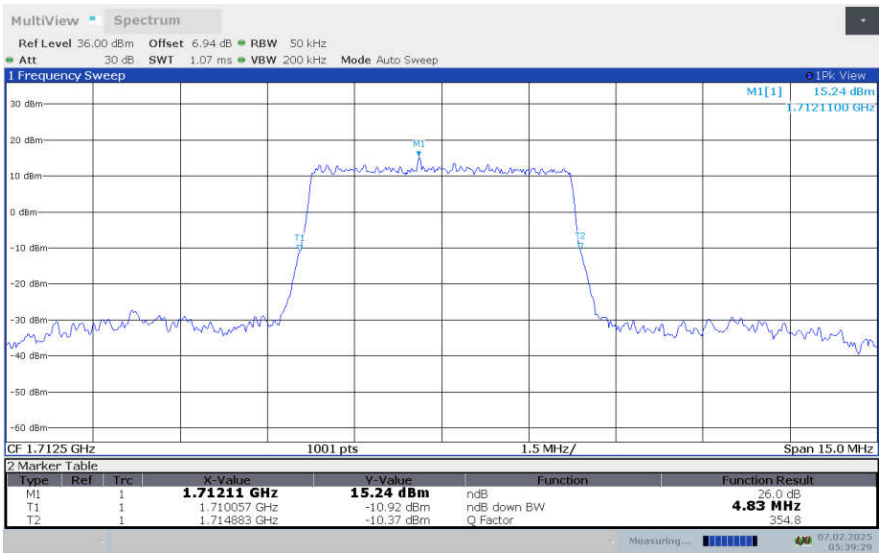
LTE Band 4,5MHz(-26dBc OBW)

Frequency(MHz)	Emission Bandwidth (-26dBc OBW)(MHz)		
	QPSK	16QAM	64QAM
1712.5	4.915	4.825	4.885
1732.5	4.900	4.900	4.900
1752.5	4.885	4.915	4.855

LTE Band 4 , 5MHz Bandwidth,LOW,QPSK (-26dBc OBW)



LTE Band 4 , 5MHz Bandwidth,LOW,16QAM (-26dBc OBW)



LTE Band 4 , 5MHz Bandwidth,LOW,64QAM (-26dBc OBW)

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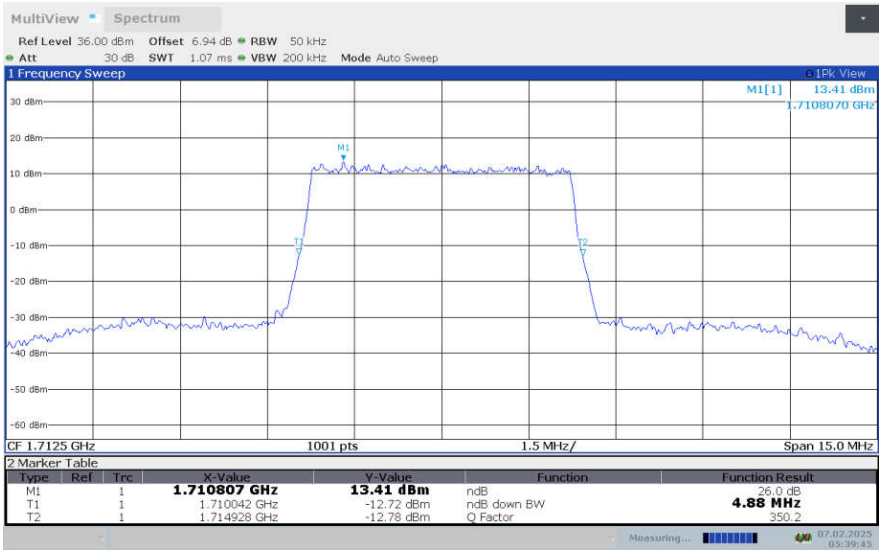
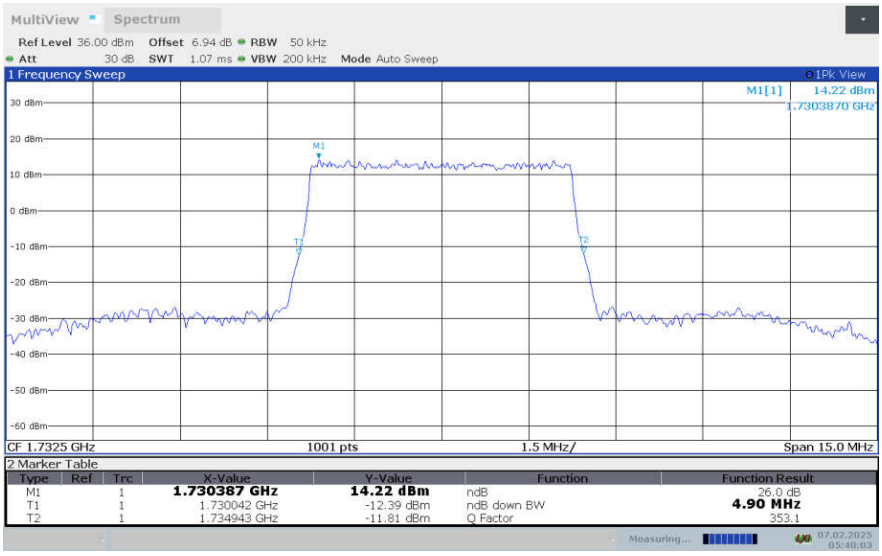


LTE Band 4 , 5MHz Bandwidth,MID,QPSK (-26dBc OBW)



LTE Band 4 , 5MHz Bandwidth,MID,16QAM (-26dBc OBW)

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