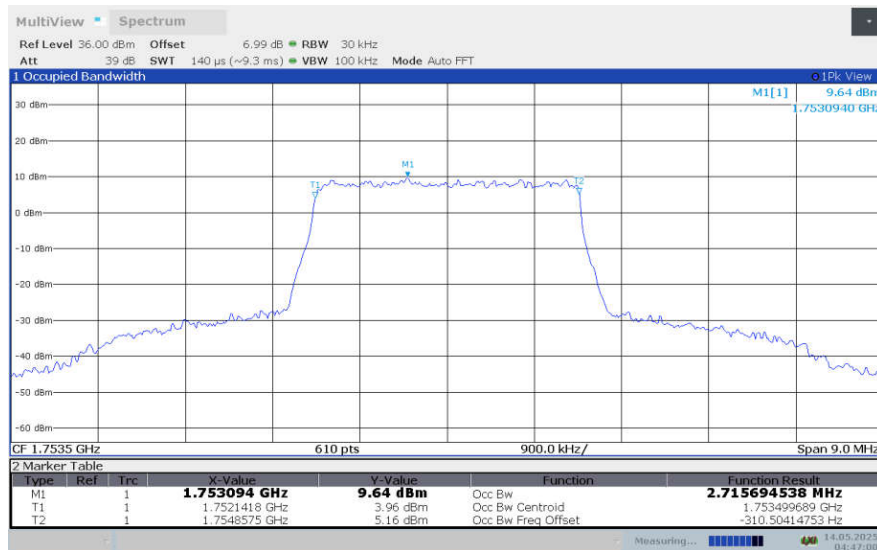


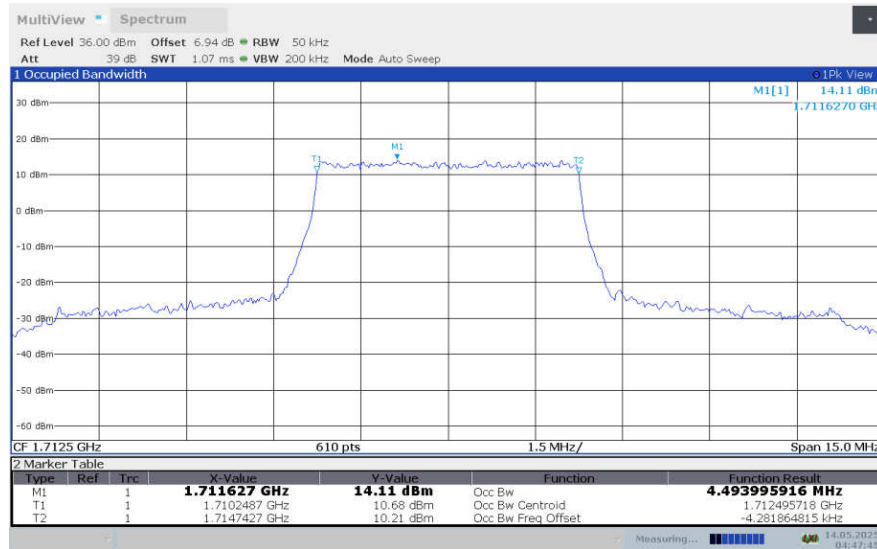
LTE band 4 , 3MHz Bandwidth,HIGH,256QAM (99% BW)



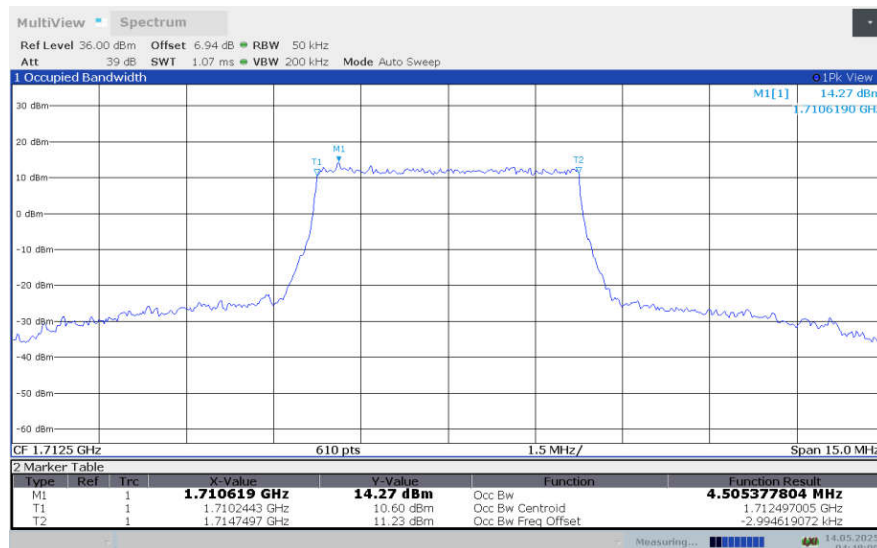
LTE band 4,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1712.5	4.494	4.505	4.495	4.497
1732.5	4.500	4.498	4.497	4.497
1752.5	4.502	4.501	4.499	4.498

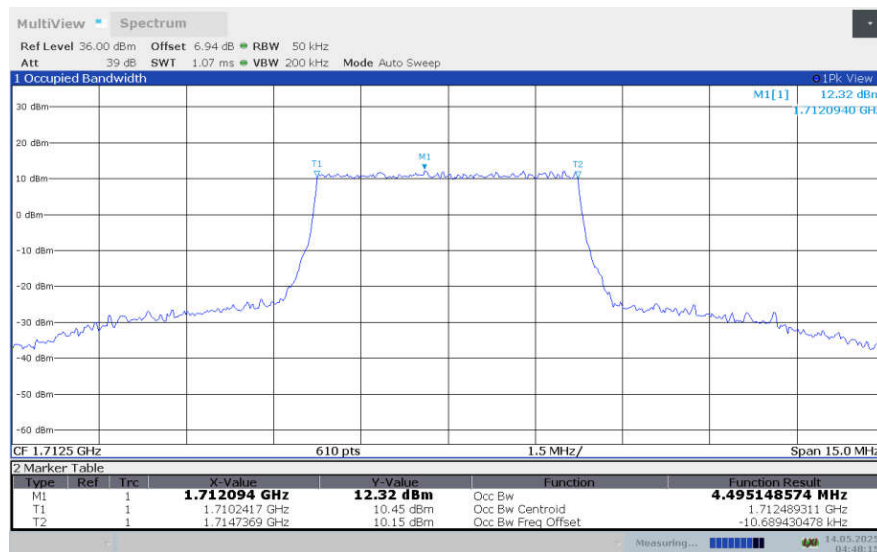
LTE band 4 , 5MHz Bandwidth,LOW,QPSK (99% BW)



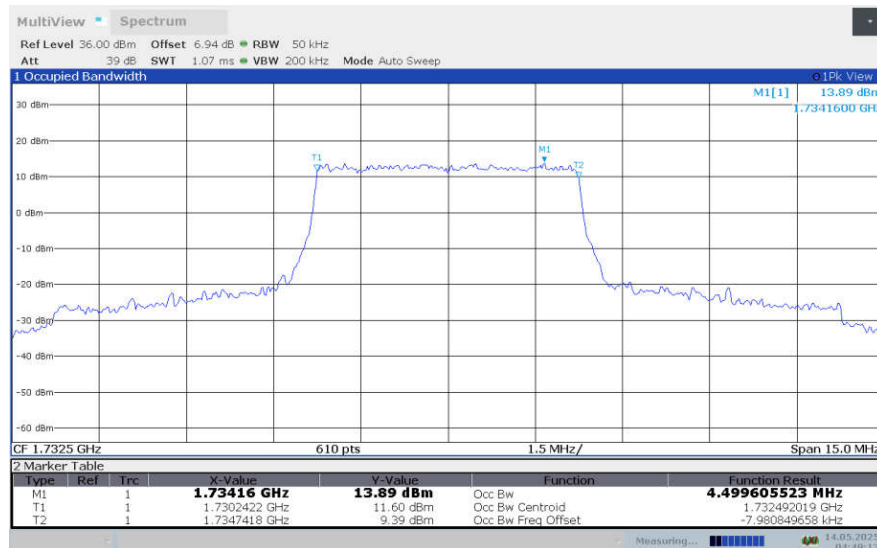
LTE band 4 , 5MHz Bandwidth,LOW,16QAM (99% BW)



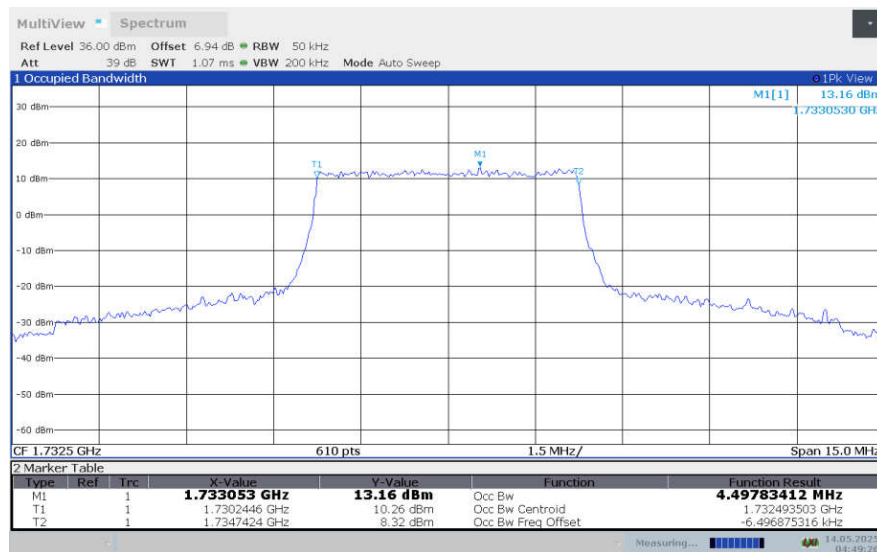
LTE band 4 , 5MHz Bandwidth,LOW,64QAM (99% BW)



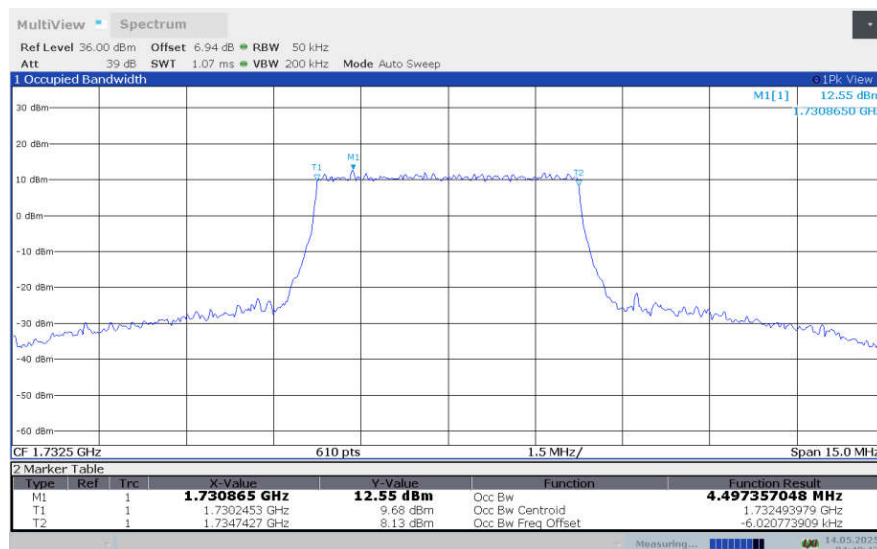
LTE band 4 , 5MHz Bandwidth,MID,QPSK (99% BW)



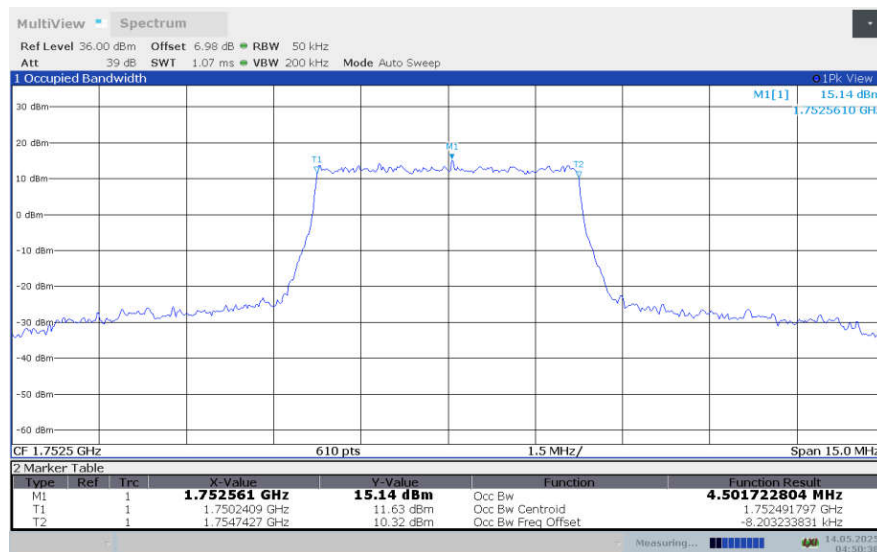
LTE band 4 , 5MHz Bandwidth,MID,16QAM (99% BW)



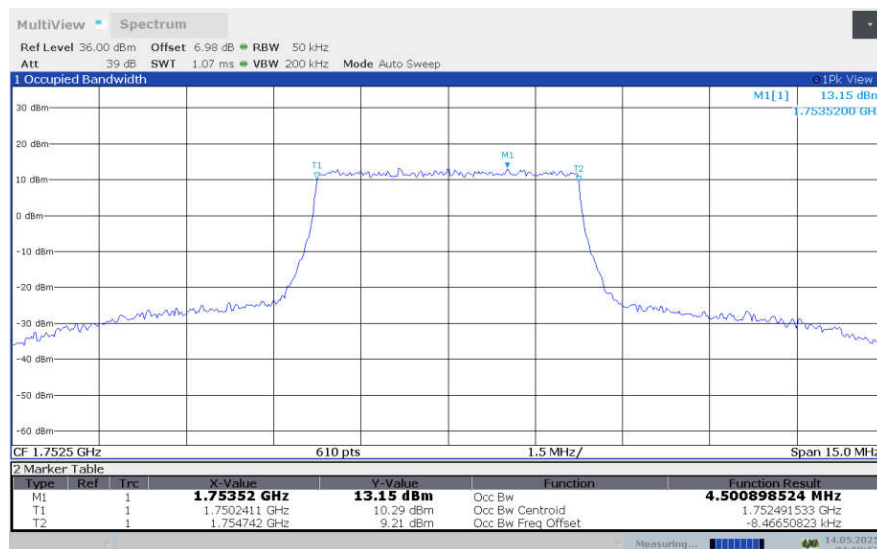
LTE band 4 , 5MHz Bandwidth,MID,64QAM (99% BW)



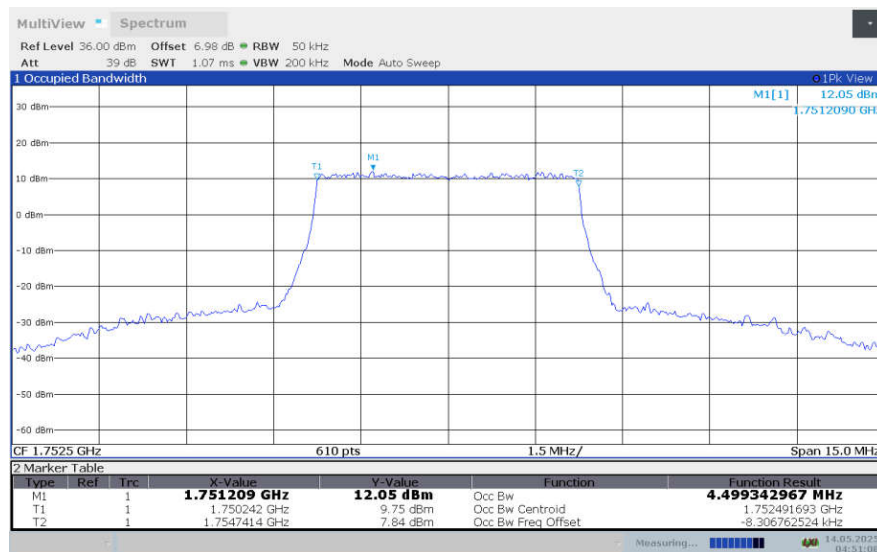
LTE band 4 , 5MHz Bandwidth,HIGH,QPSK (99% BW)



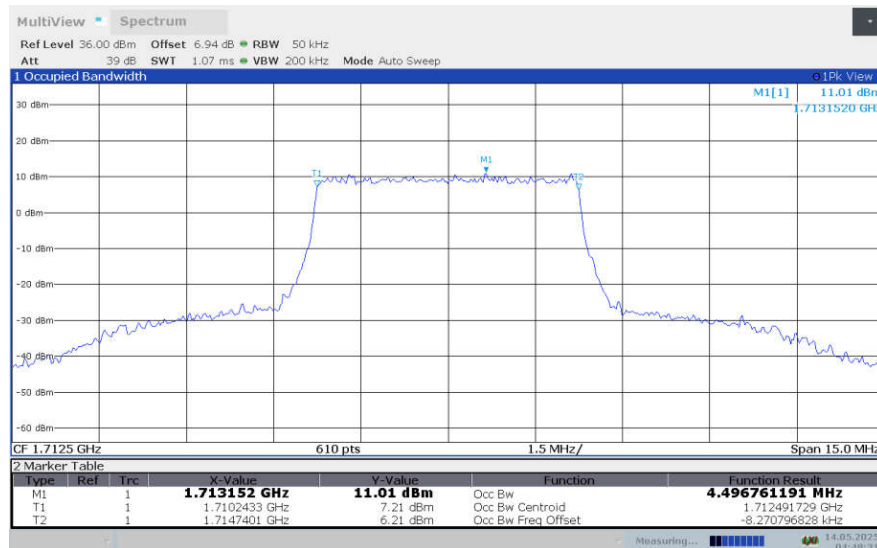
LTE band 4 , 5MHz Bandwidth,HIGH,16QAM (99% BW)



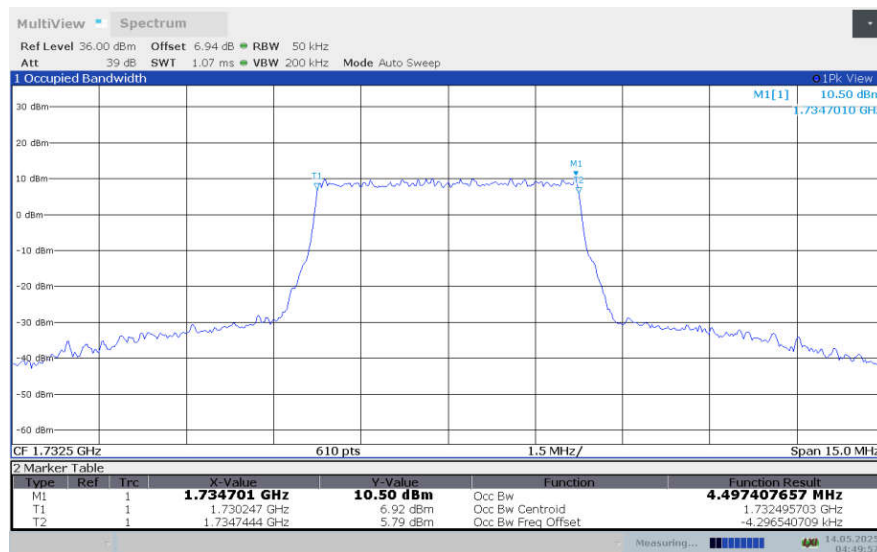
LTE band 4 , 5MHz Bandwidth,HIGH,64QAM (99% BW)



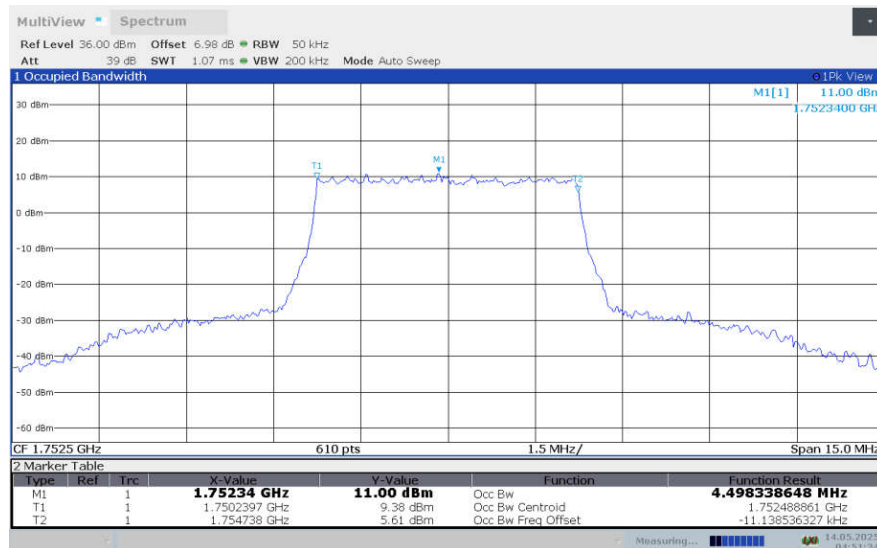
LTE band 4 , 5MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 4 , 5MHz Bandwidth,MID,256QAM (99% BW)



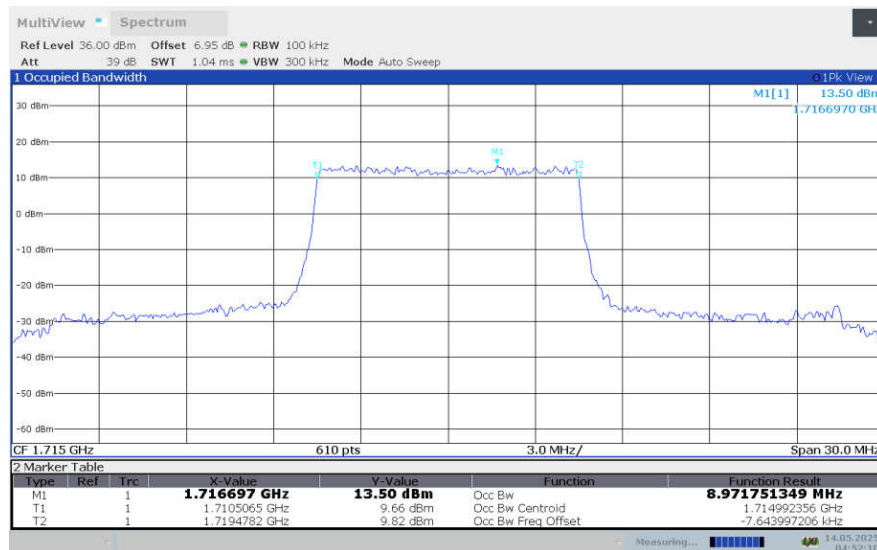
LTE band 4 , 5MHz Bandwidth,HIGH,256QAM (99% BW)



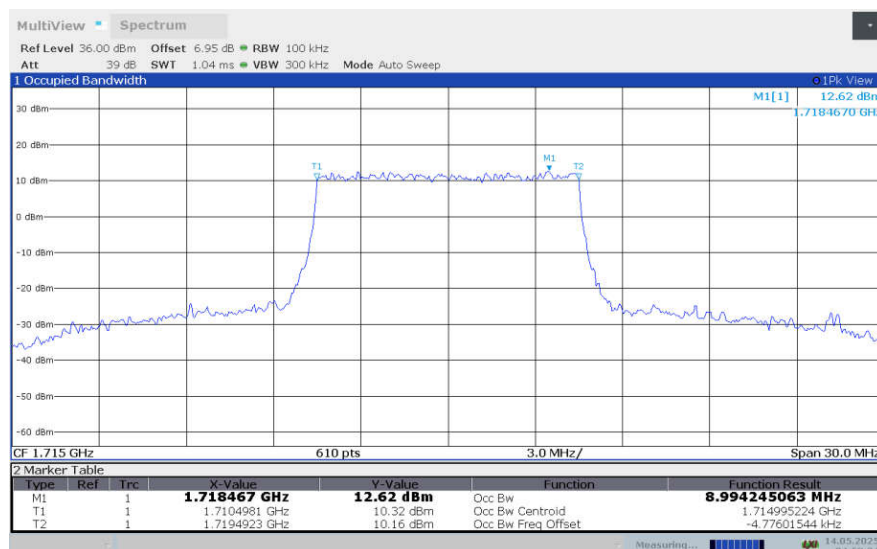
LTE band 4,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1715	8.972	8.994	8.997	8.969
1732.5	8.966	8.978	8.992	8.976
1750	8.994	8.998	8.981	8.977

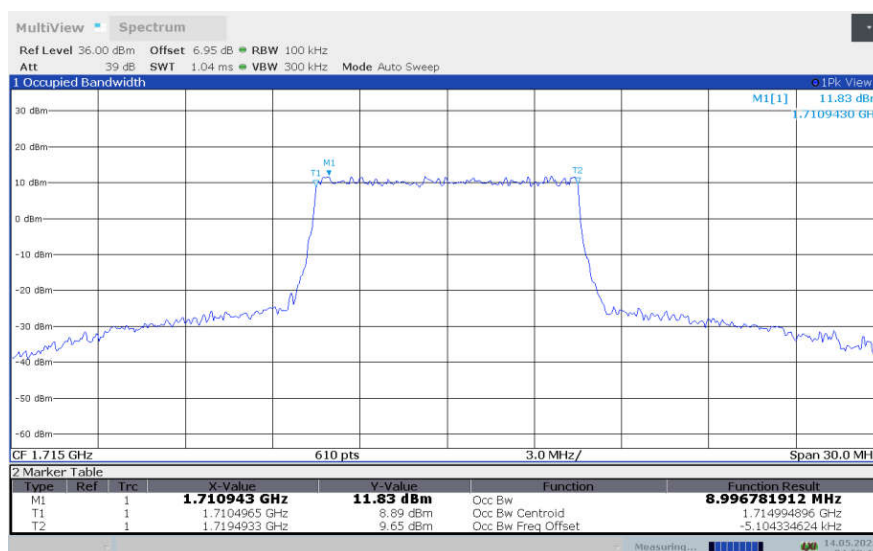
LTE band 4 , 10MHz Bandwidth,LOW,QPSK (99% BW)



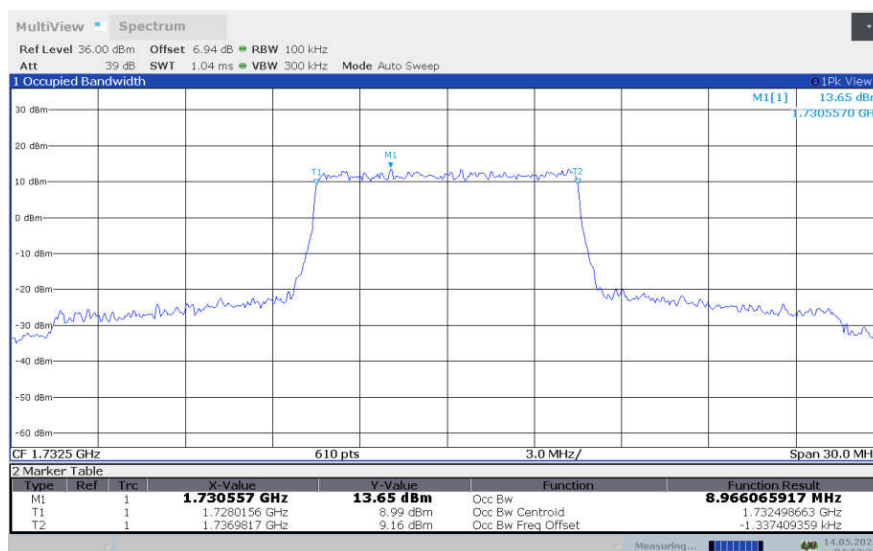
LTE band 4 , 10MHz Bandwidth,LOW,16QAM (99% BW)



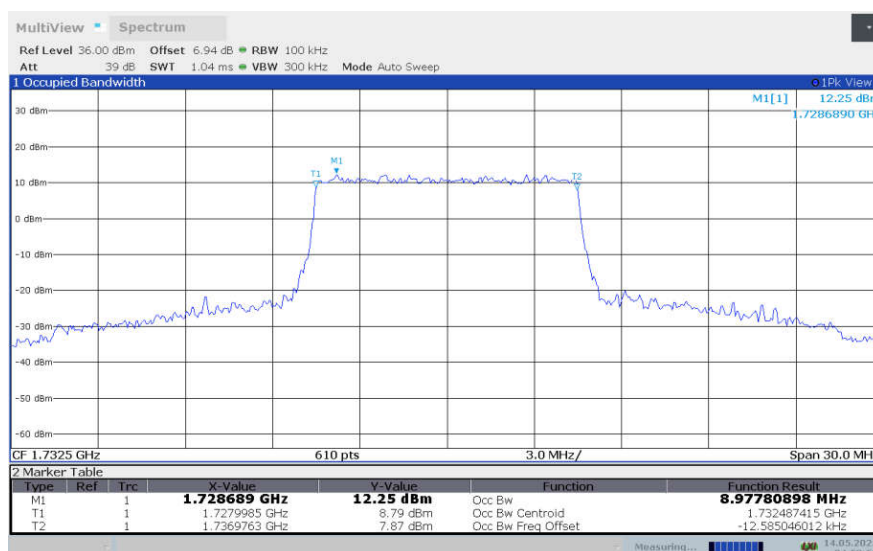
LTE band 4 , 10MHz Bandwidth,LOW,64QAM (99% BW)



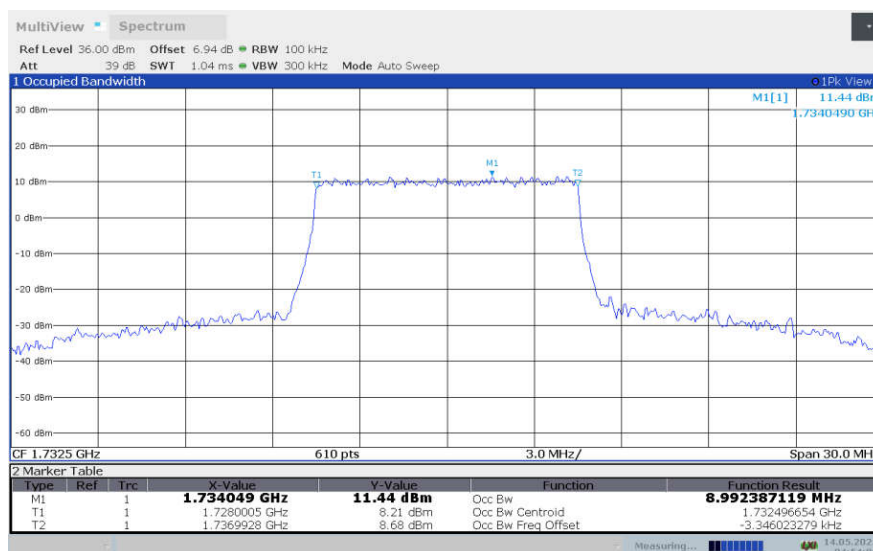
LTE band 4 , 10MHz Bandwidth,MID,QPSK (99% BW)



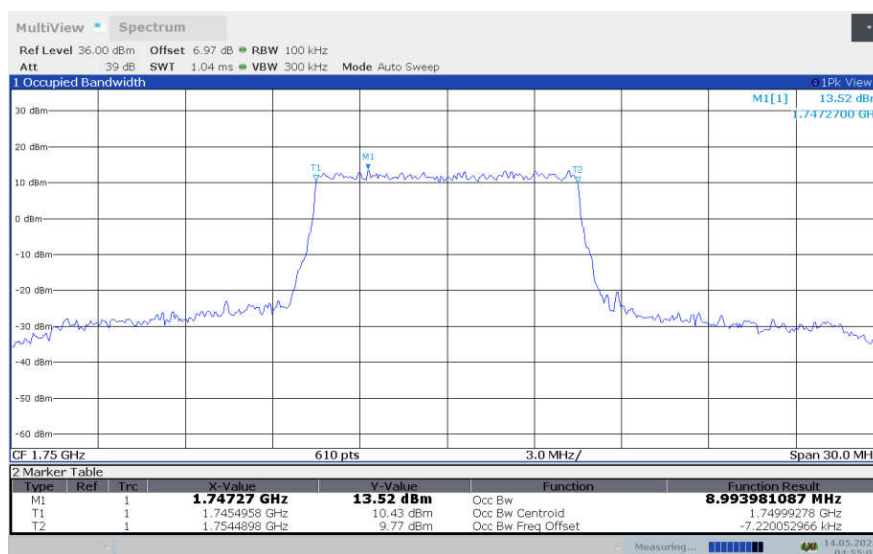
LTE band 4 , 10MHz Bandwidth,MID,16QAM (99% BW)



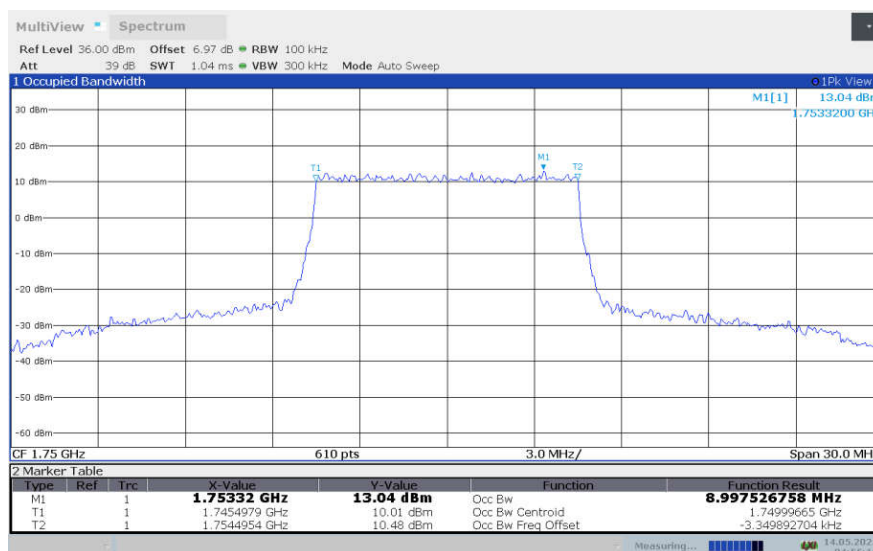
LTE band 4 , 10MHz Bandwidth,MID,64QAM (99% BW)



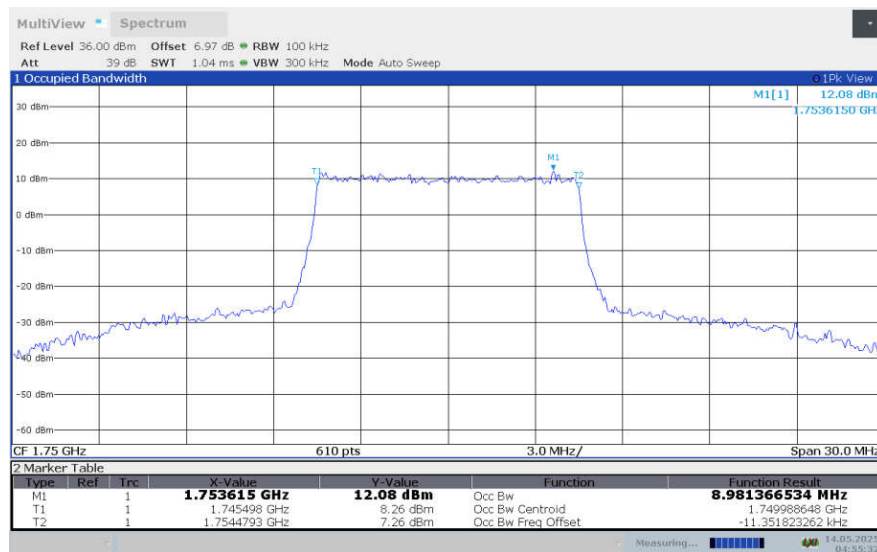
LTE band 4 , 10MHz Bandwidth,HIGH,QPSK (99% BW)



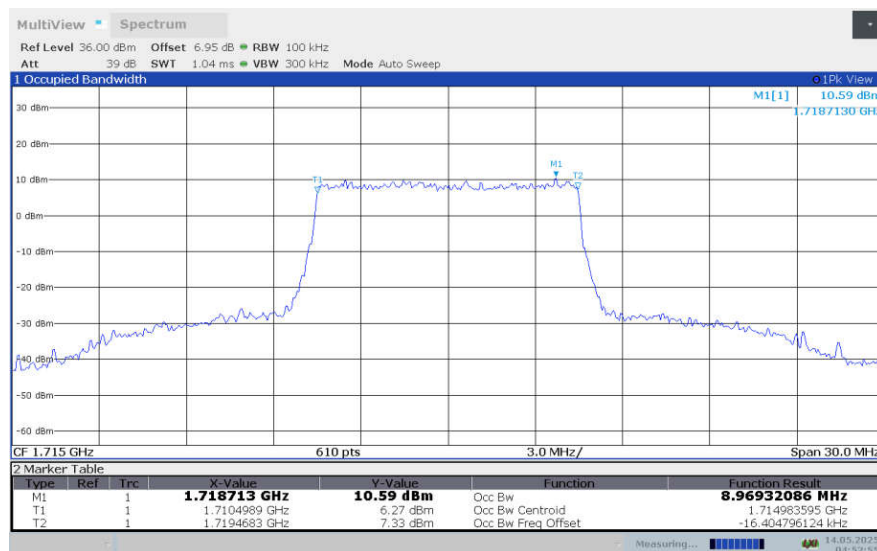
LTE band 4 , 10MHz Bandwidth,HIGH,16QAM (99% BW)



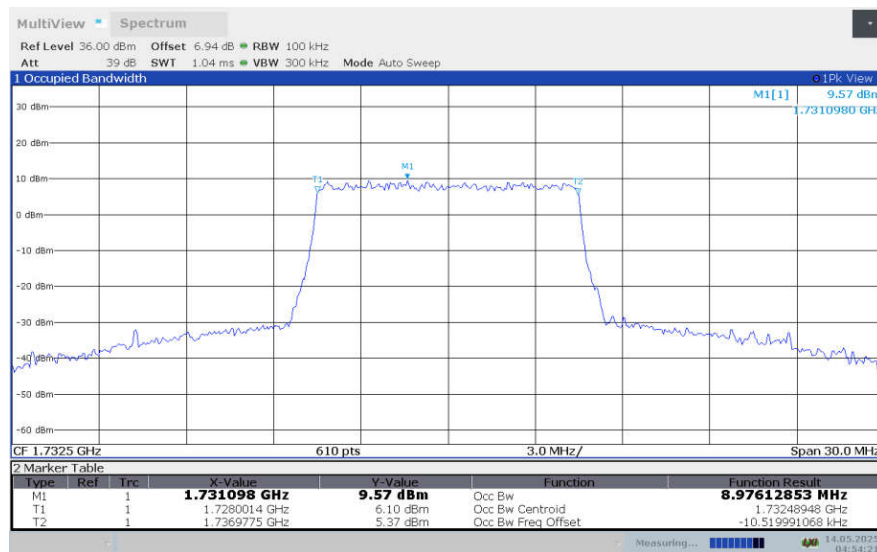
LTE band 4 , 10MHz Bandwidth,HIGH,64QAM (99% BW)



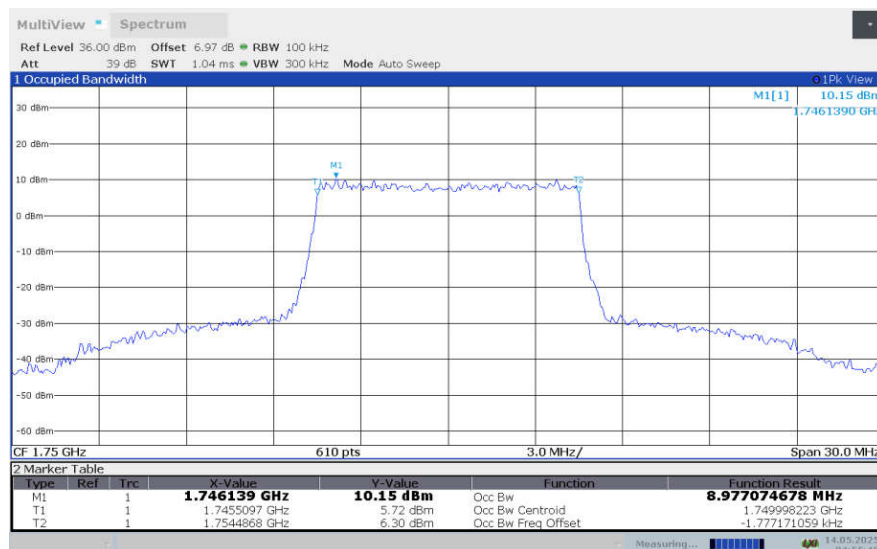
LTE band 4 , 10MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 4 , 10MHz Bandwidth,MID,256QAM (99% BW)



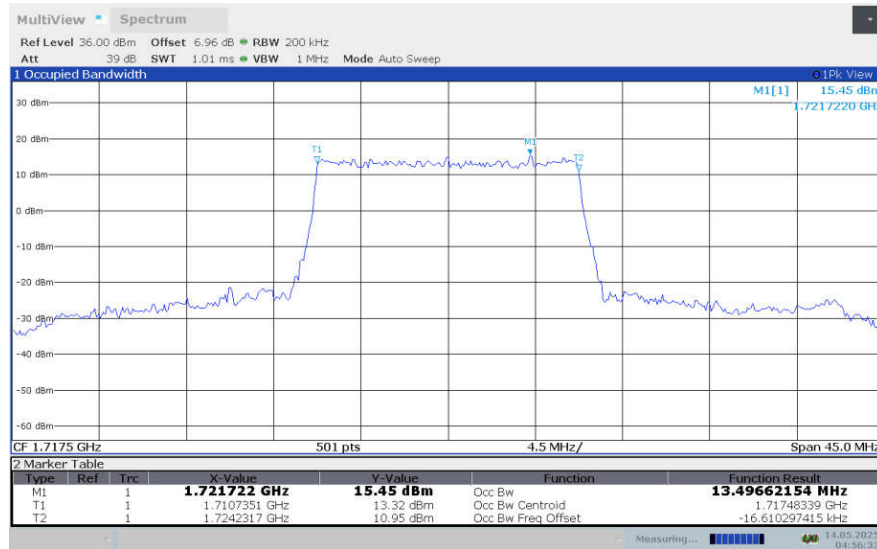
LTE band 4 , 10MHz Bandwidth,HIGH,256QAM (99% BW)



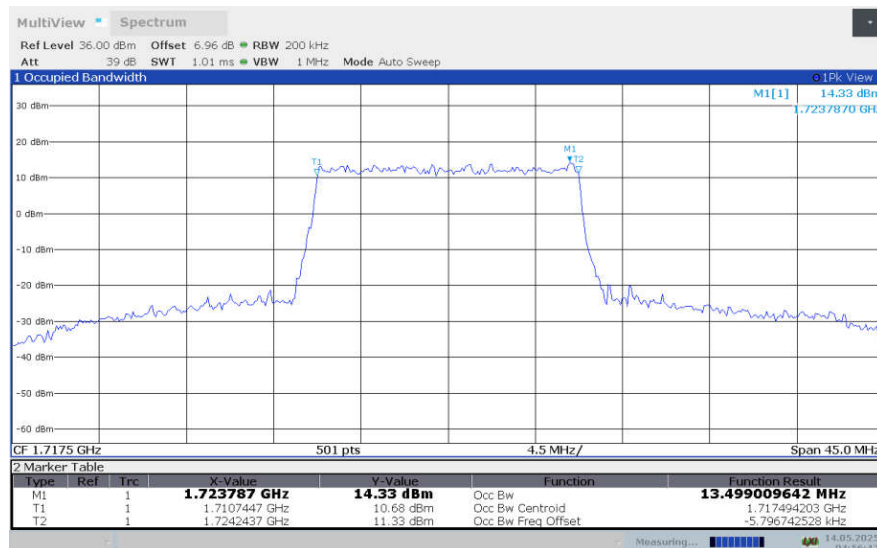
LTE band 4,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1717.5	13.497	13.499	13.506	13.485
1732.5	13.489	13.521	13.535	13.499
1747.5	13.517	13.517	13.483	13.511

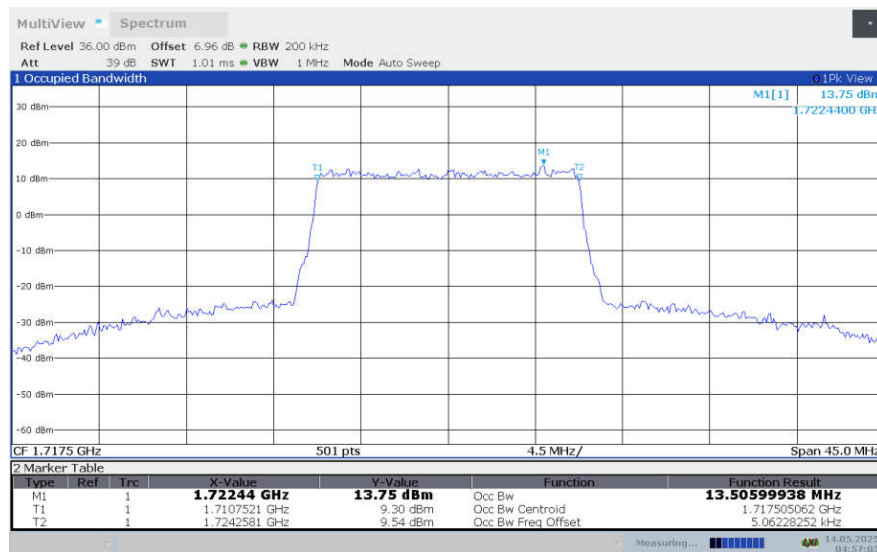
LTE band 4 , 15MHz Bandwidth,LOW,QPSK (99% BW)



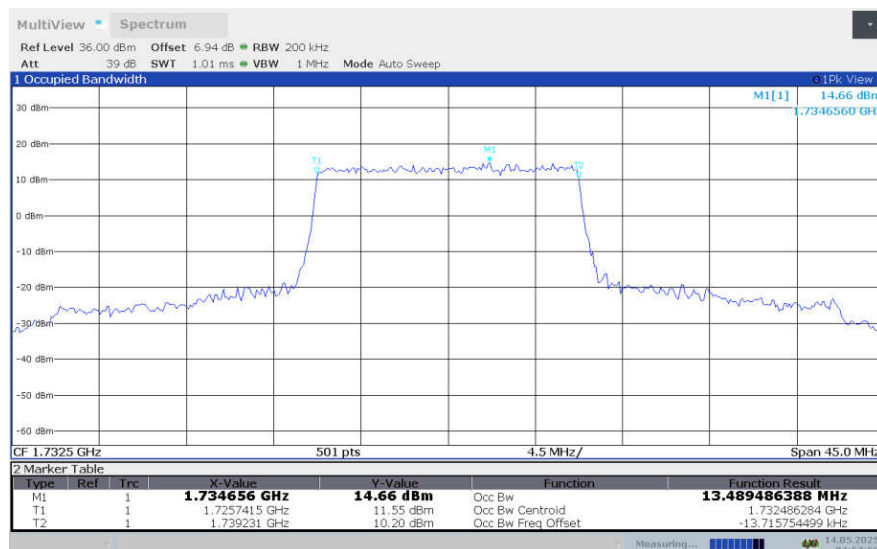
LTE band 4 , 15MHz Bandwidth,LOW,16QAM (99% BW)



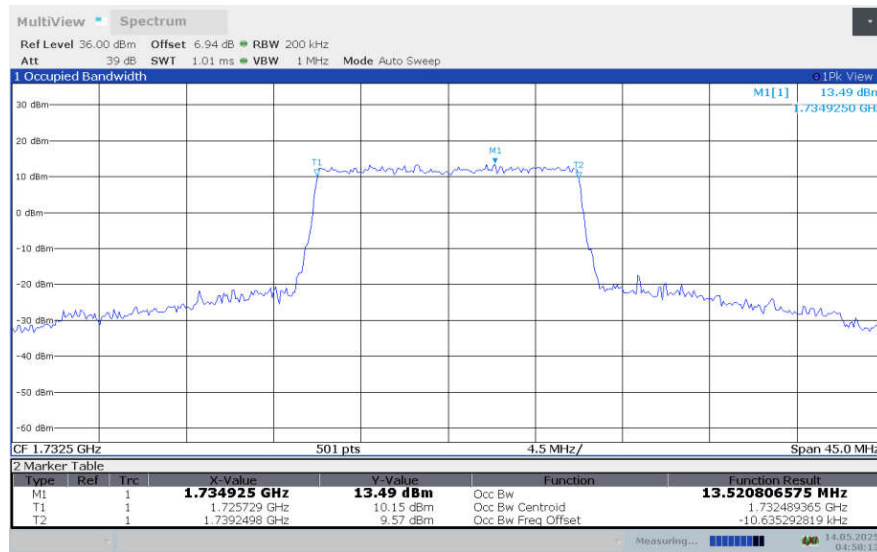
LTE band 4 , 15MHz Bandwidth,LOW,64QAM (99% BW)



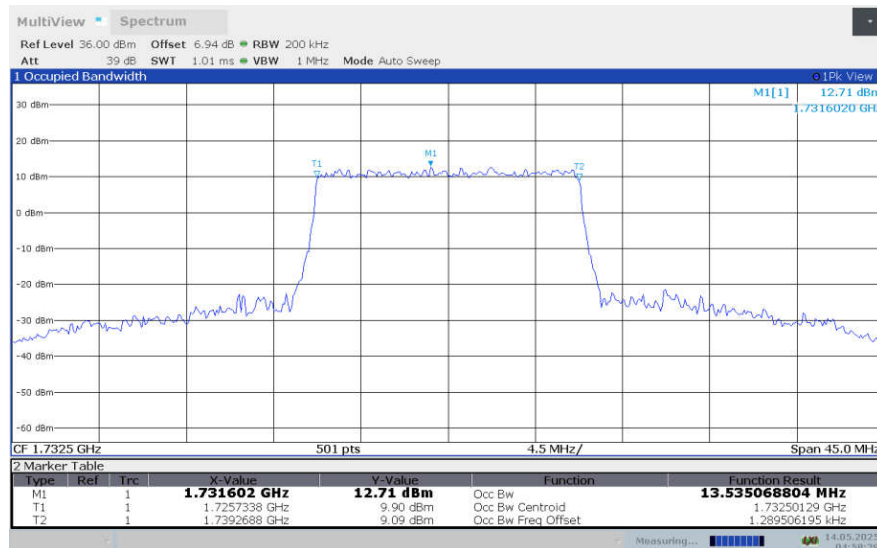
LTE band 4 , 15MHz Bandwidth,MID,QPSK (99% BW)



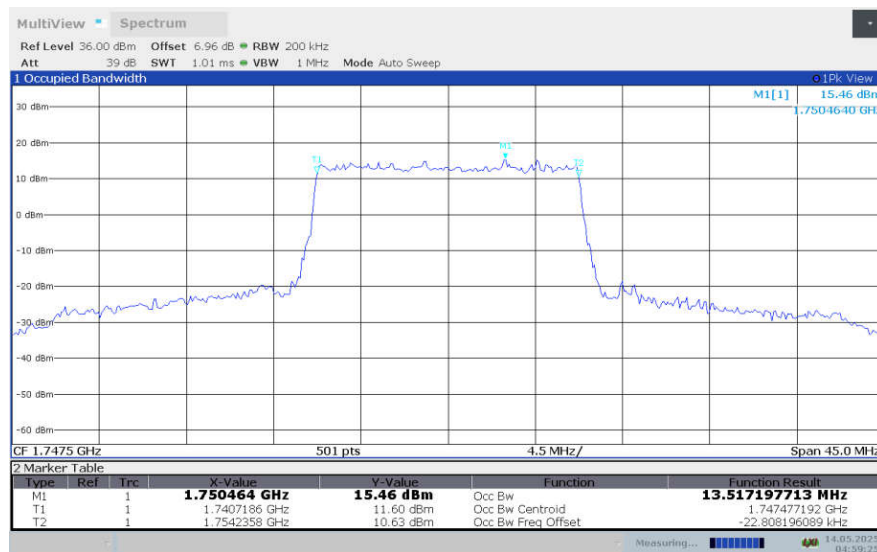
LTE band 4 , 15MHz Bandwidth,MID,16QAM (99% BW)



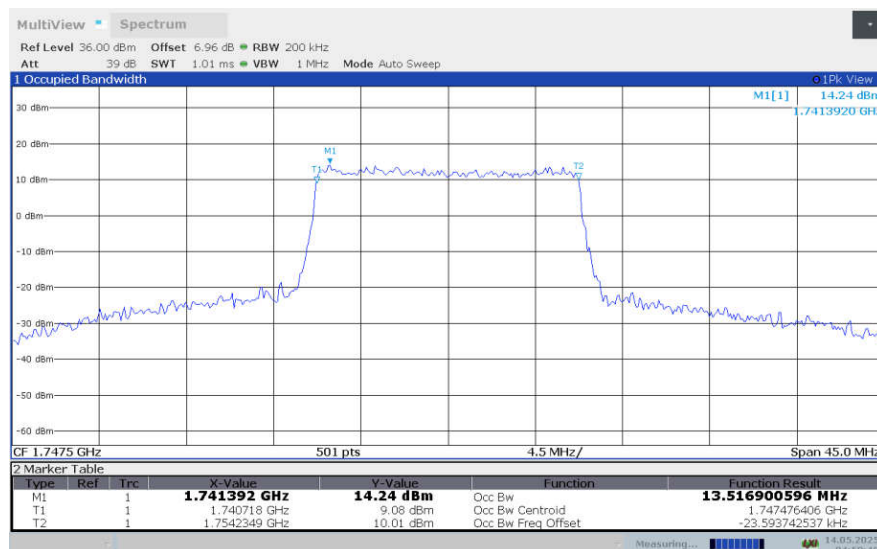
LTE band 4 , 15MHz Bandwidth,MID,64QAM (99% BW)



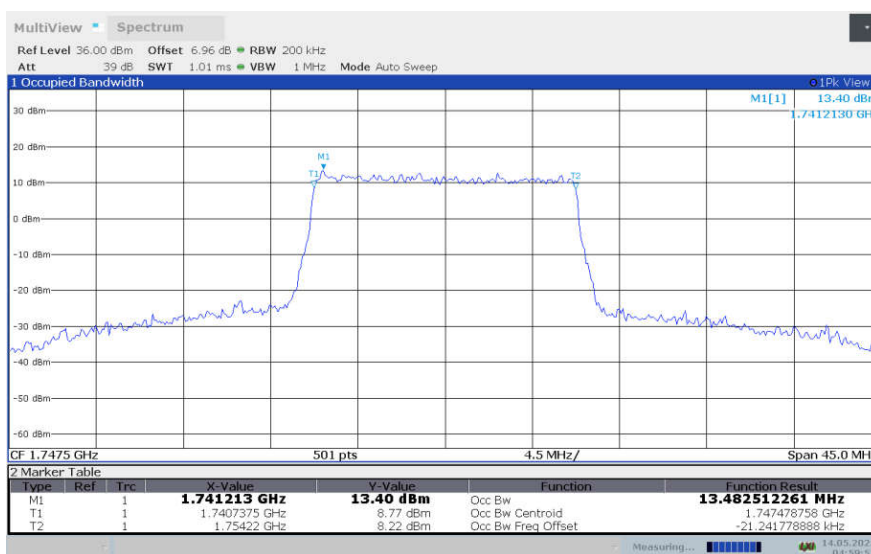
LTE band 4 , 15MHz Bandwidth,HIGH,QPSK (99% BW)



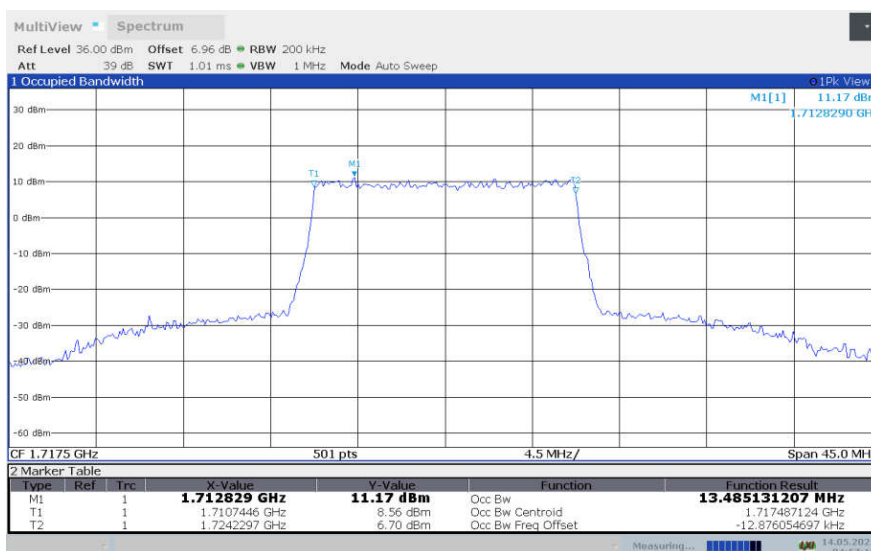
LTE band 4 , 15MHz Bandwidth,HIGH,16QAM (99% BW)



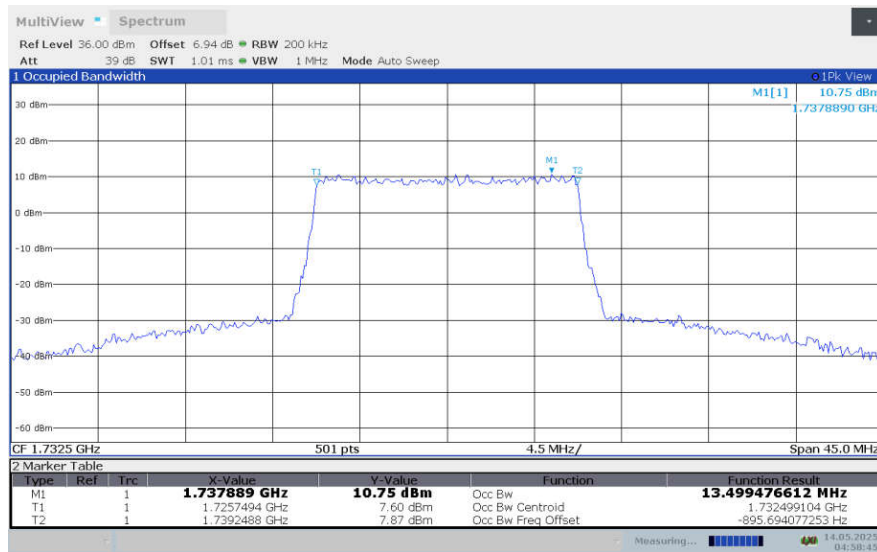
LTE band 4 , 15MHz Bandwidth,HIGH,64QAM (99% BW)



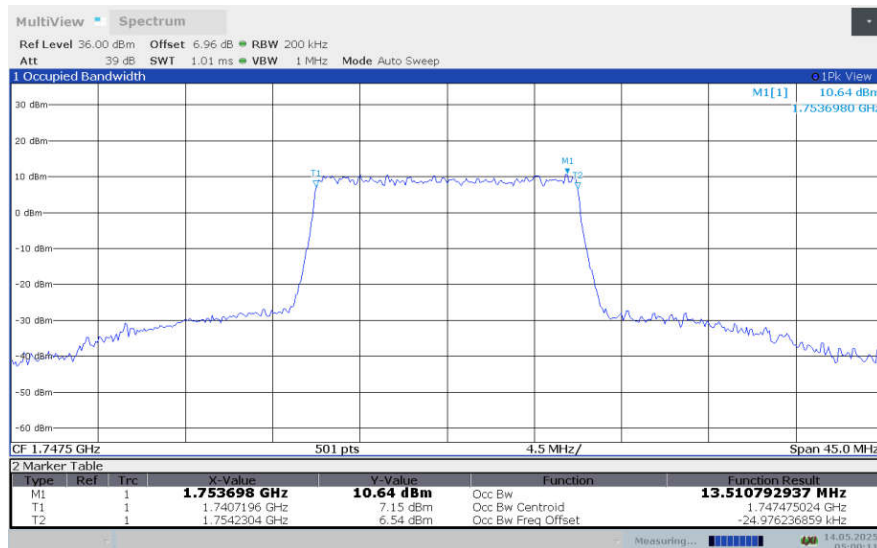
LTE band 4 , 15MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 4 , 15MHz Bandwidth,MID,256QAM (99% BW)



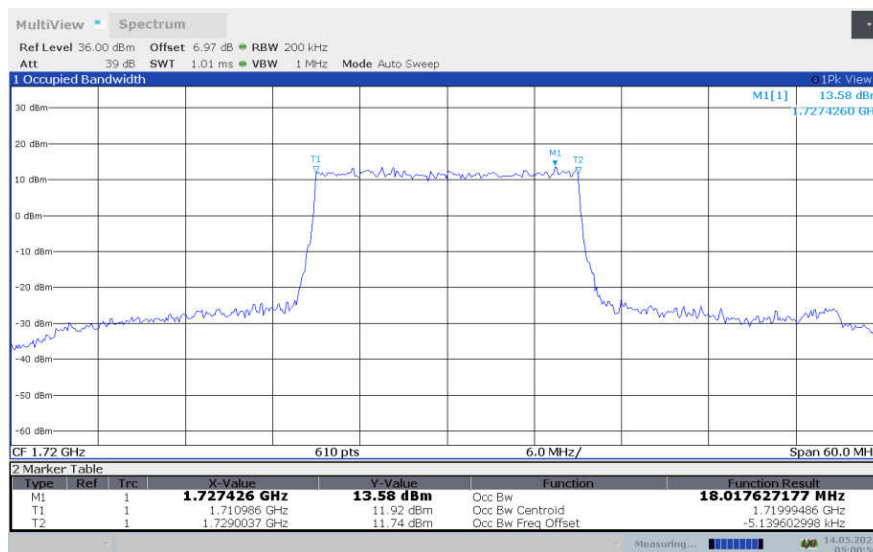
LTE band 4 , 15MHz Bandwidth,HIGH,256QAM (99% BW)



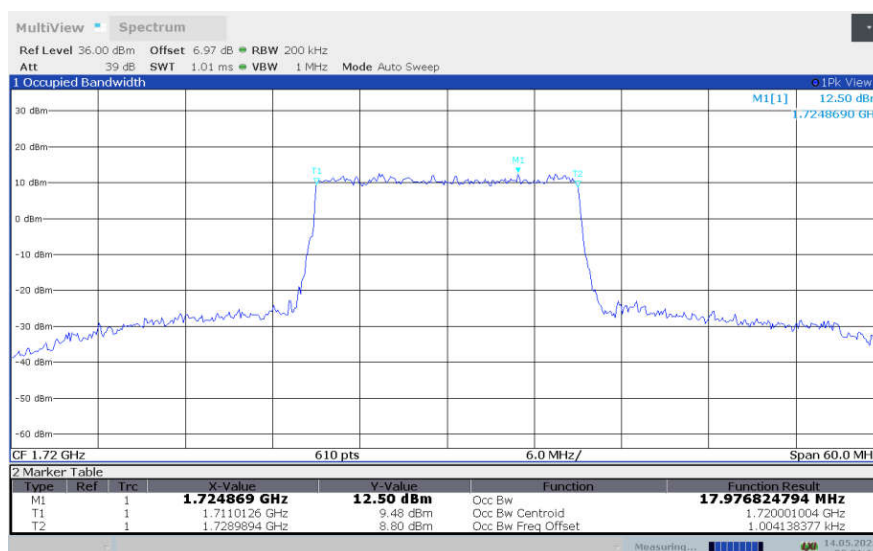
LTE band 4,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
1720	18.018	17.977	17.995	17.972
1732.5	17.978	17.896	17.983	17.911
1745	17.911	17.956	17.934	17.946

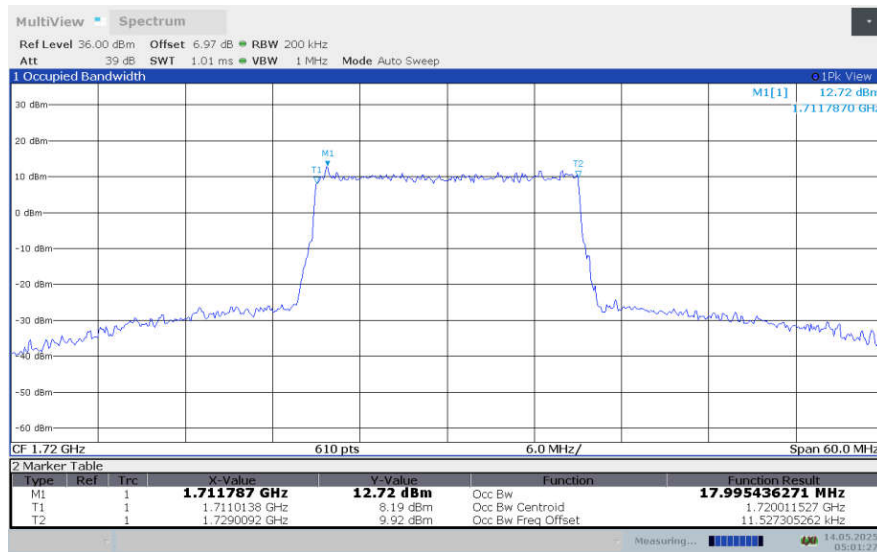
LTE band 4 , 20MHz Bandwidth,LOW,QPSK (99% BW)



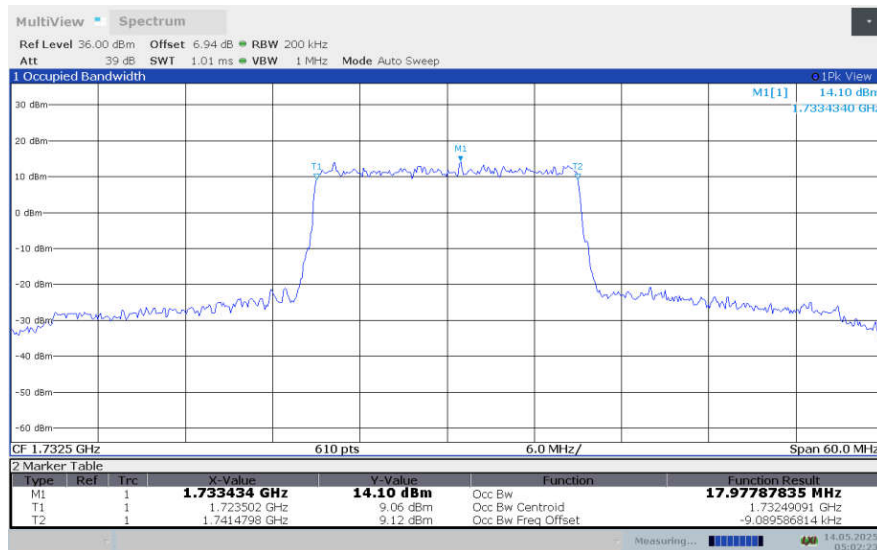
LTE band 4 , 20MHz Bandwidth,LOW,16QAM (99% BW)



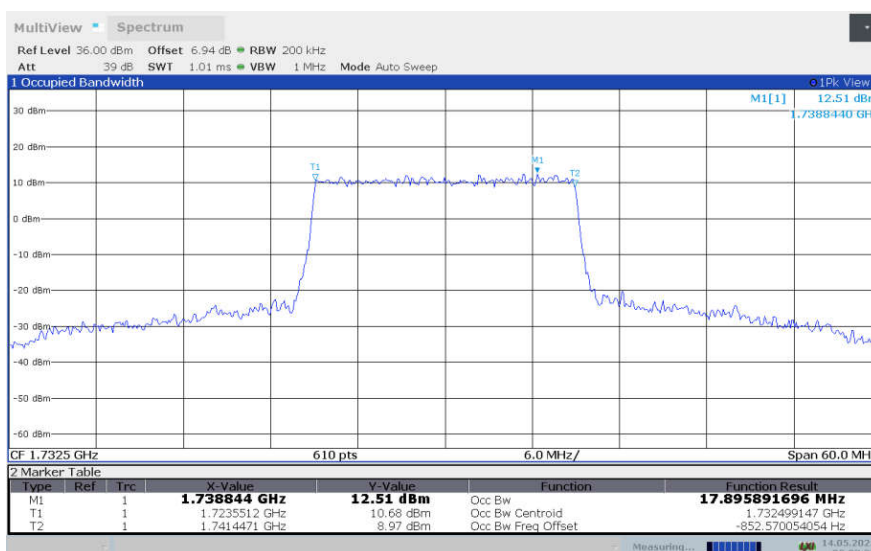
LTE band 4 , 20MHz Bandwidth,LOW,64QAM (99% BW)



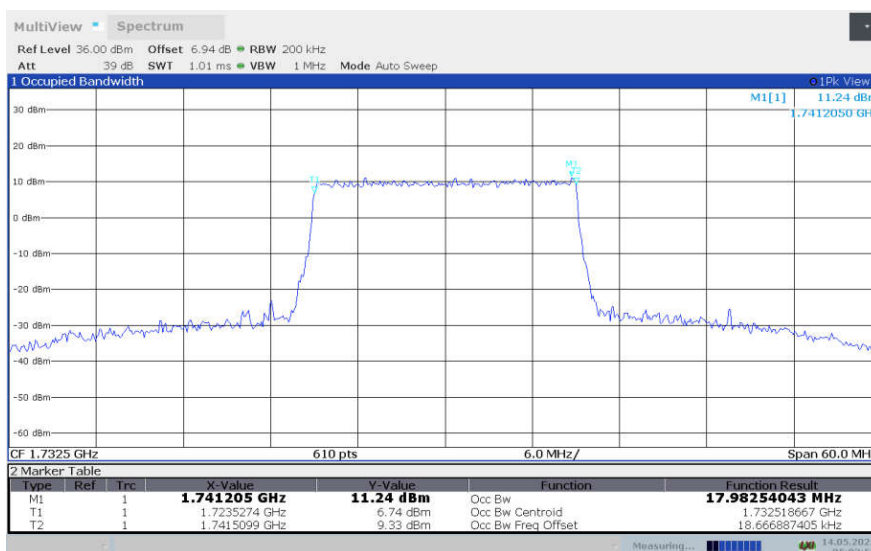
LTE band 4 , 20MHz Bandwidth,MID,QPSK (99% BW)



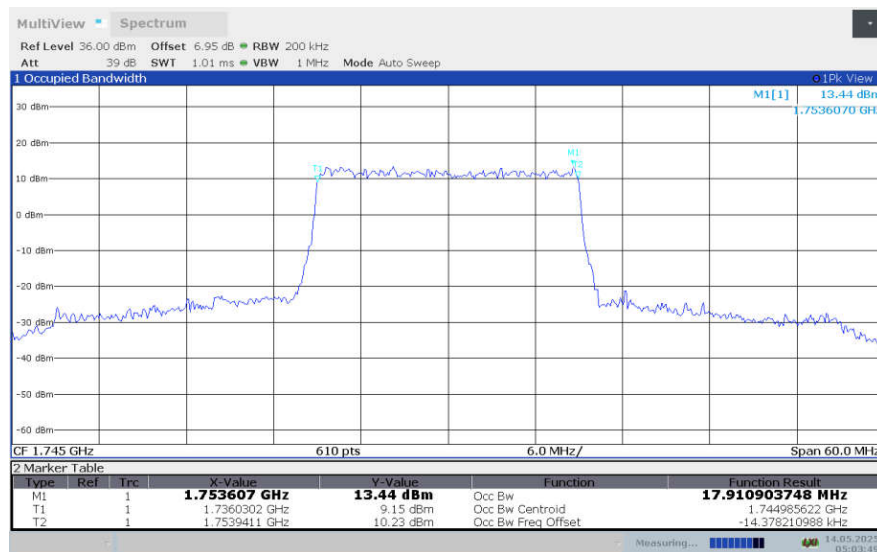
LTE band 4 , 20MHz Bandwidth,MID,16QAM (99% BW)



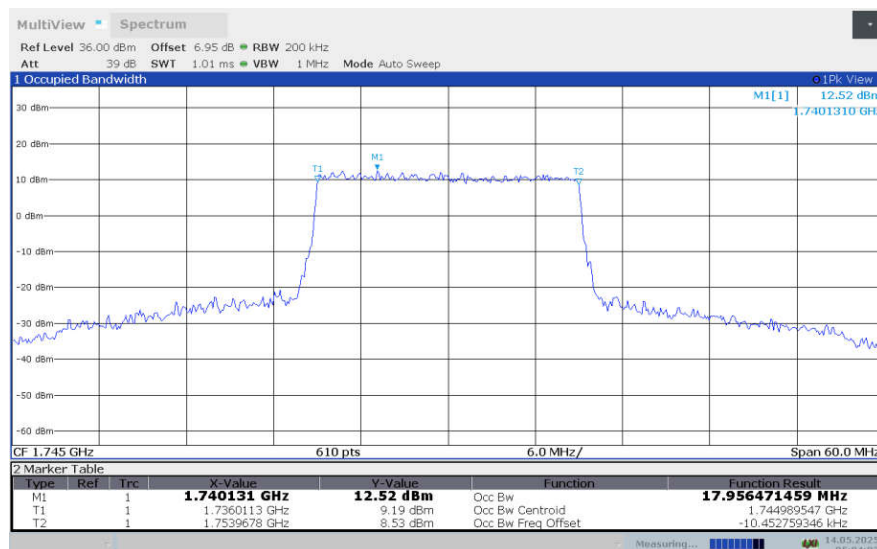
LTE band 4 , 20MHz Bandwidth,MID,64QAM (99% BW)



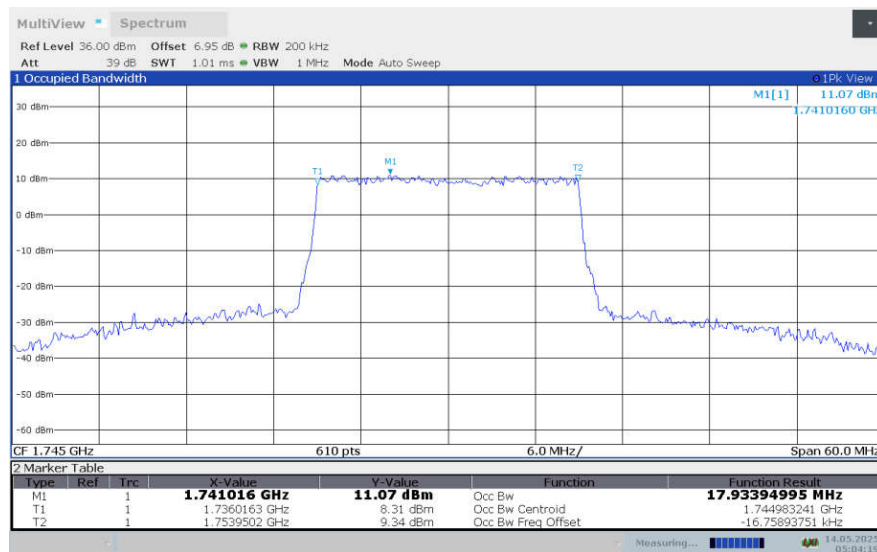
LTE band 4 , 20MHz Bandwidth,HIGH,QPSK (99% BW)



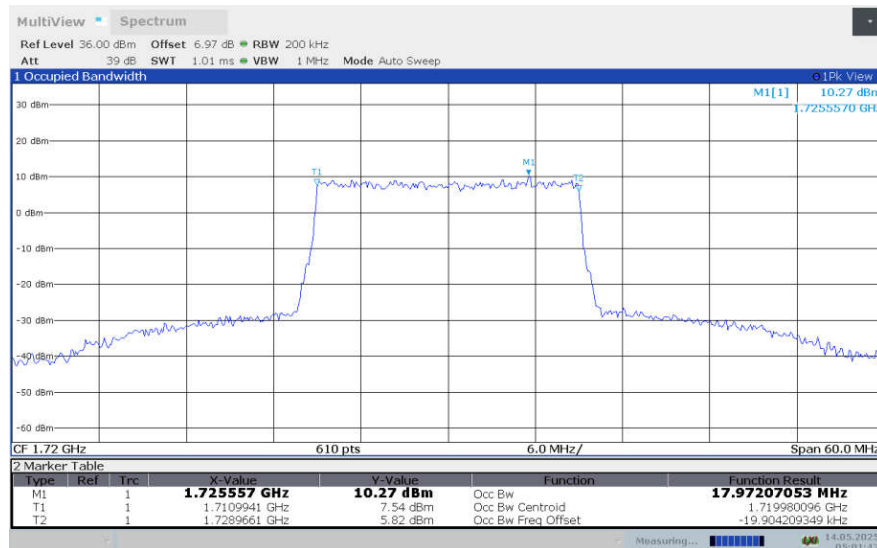
LTE band 4 , 20MHz Bandwidth,HIGH,16QAM (99% BW)



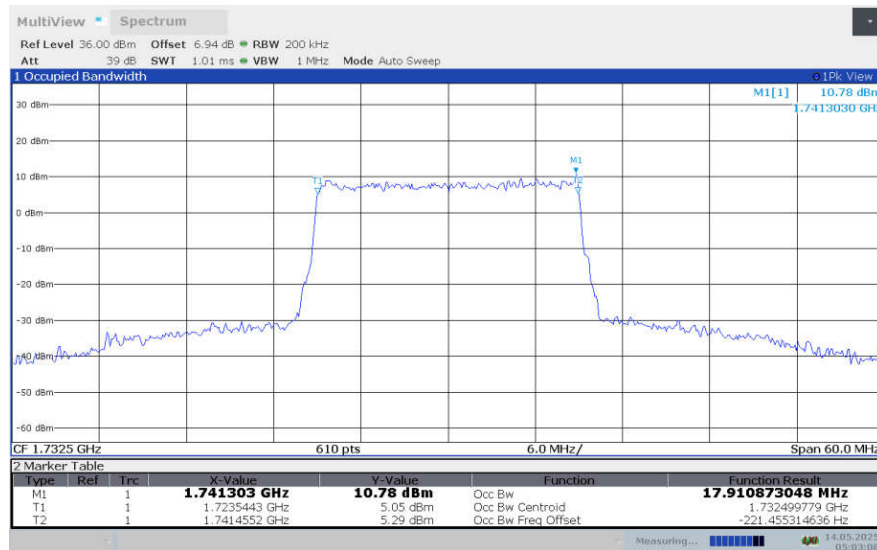
LTE band 4 , 20MHz Bandwidth,HIGH,64QAM (99% BW)



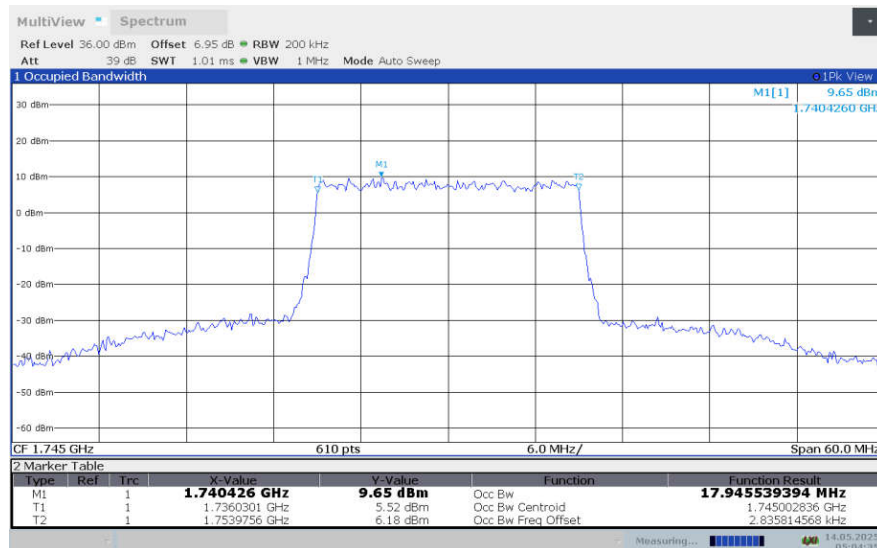
LTE band 4 , 20MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 4 , 20MHz Bandwidth,MID,256QAM (99% BW)



LTE band 4 , 20MHz Bandwidth,HIGH,256QAM (99% BW)



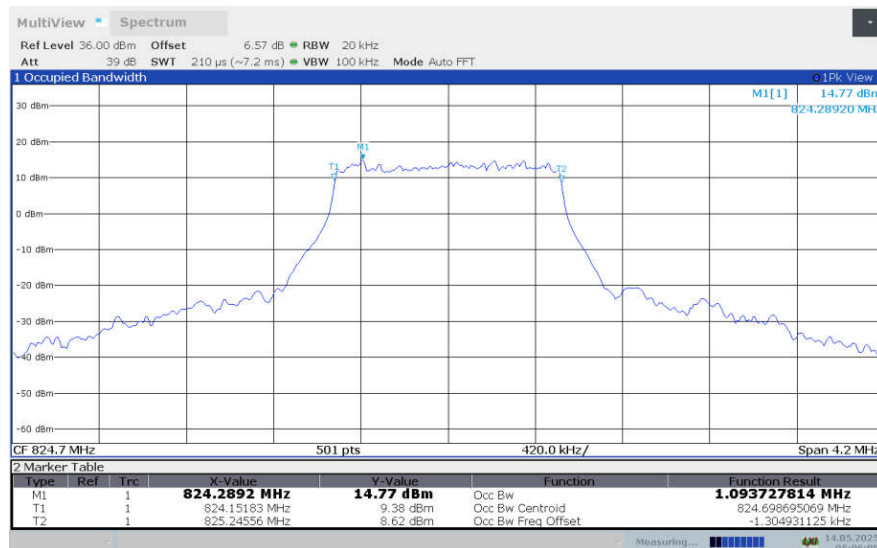
LTE band 5,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
824.7	1.096	1.094	1.098	1.094
836.5	1.095	1.112	1.090	1.092
848.3	1.097	1.093	1.092	1.087

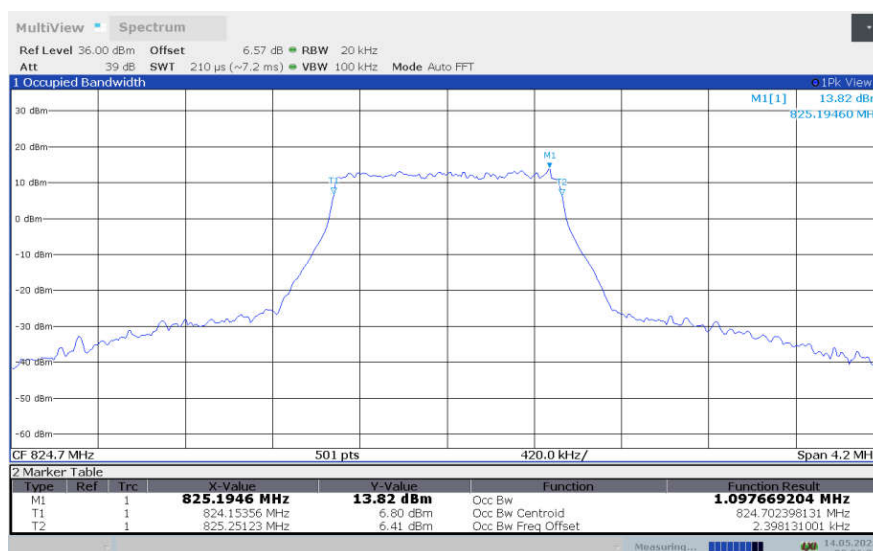
LTE band 5 , 1.4MHz Bandwidth,LOW,QPSK (99% BW)



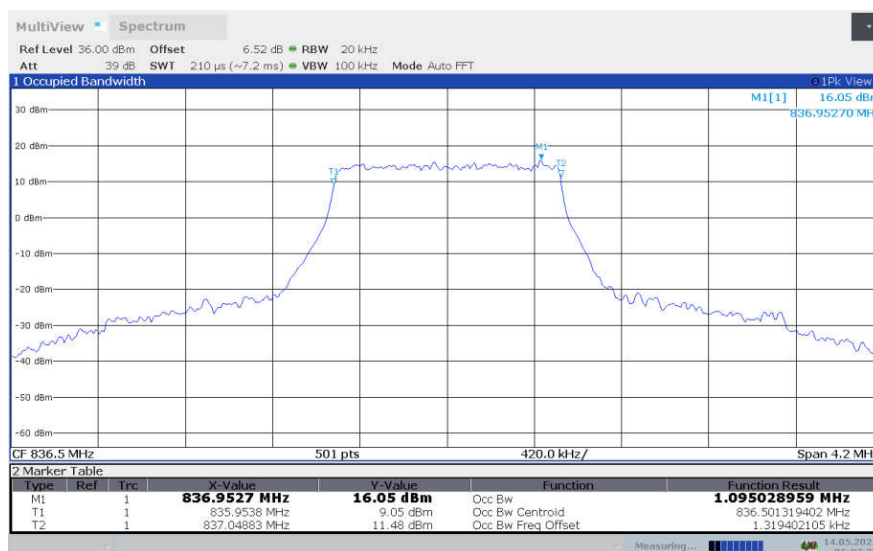
LTE band 5 , 1.4MHz Bandwidth,LOW,16QAM (99% BW)



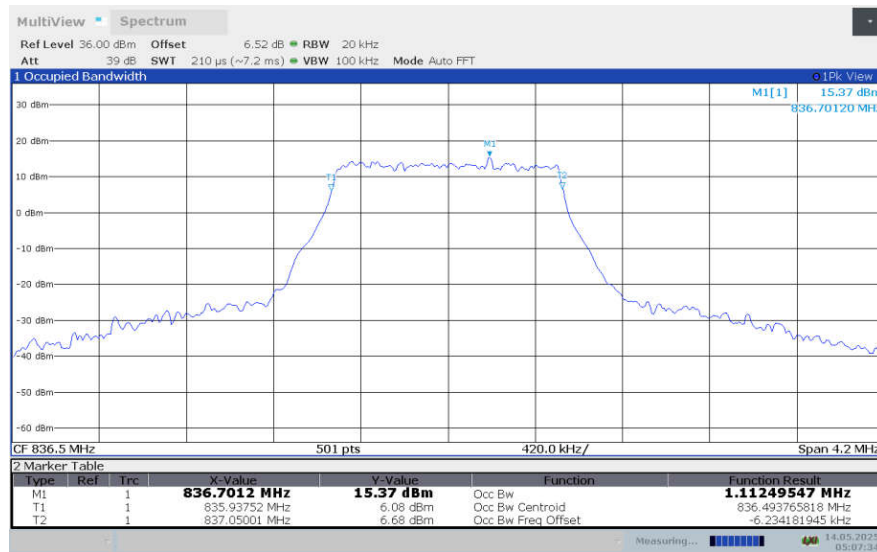
LTE band 5 , 1.4MHz Bandwidth,LOW,64QAM (99% BW)



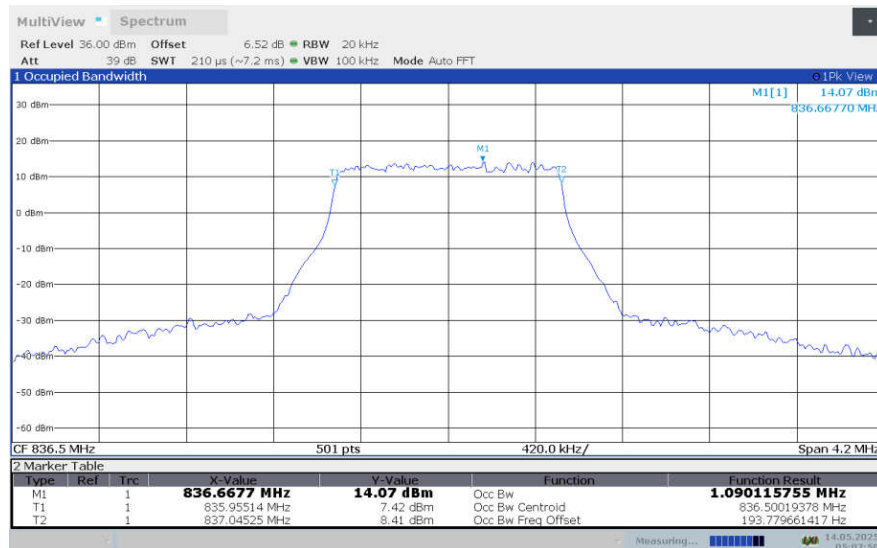
LTE band 5 , 1.4MHz Bandwidth,MID,QPSK (99% BW)



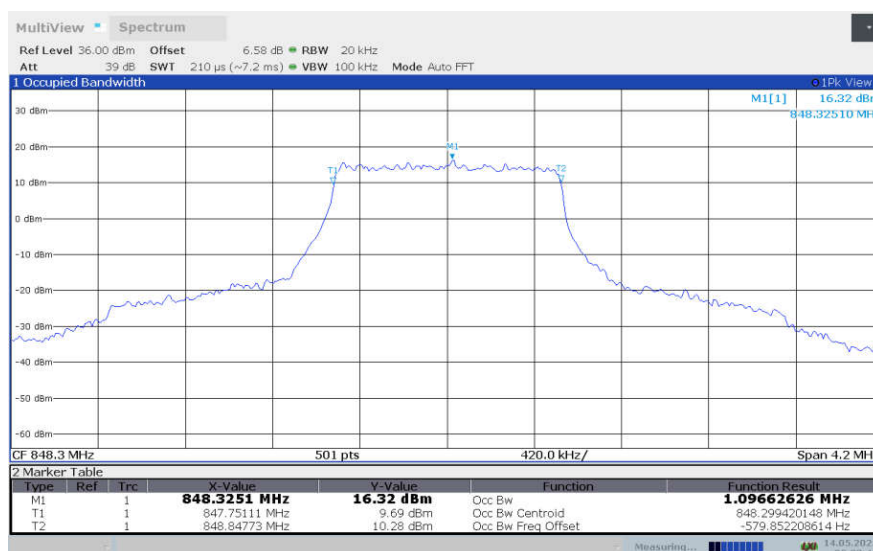
LTE band 5 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



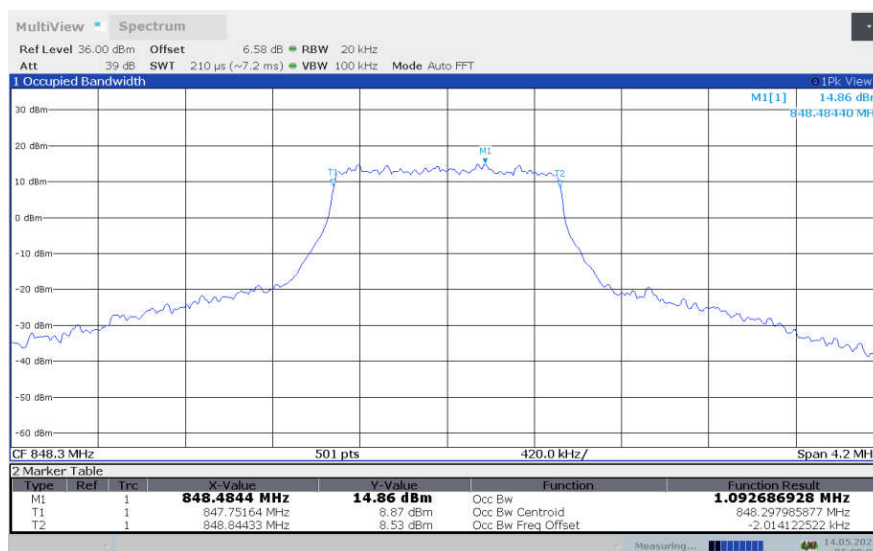
LTE band 5 , 1.4MHz Bandwidth,MID,64QAM (99% BW)



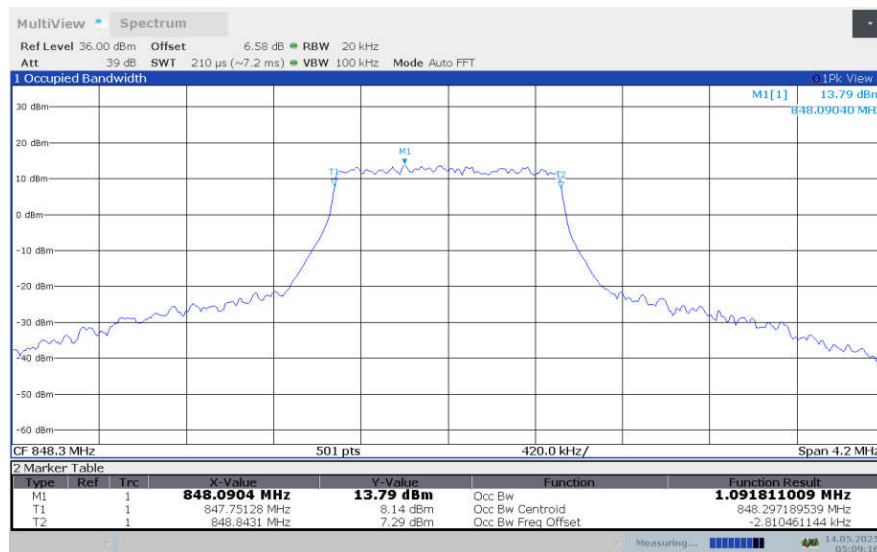
LTE band 5 , 1.4MHz Bandwidth,HIGH,QPSK (99% BW)



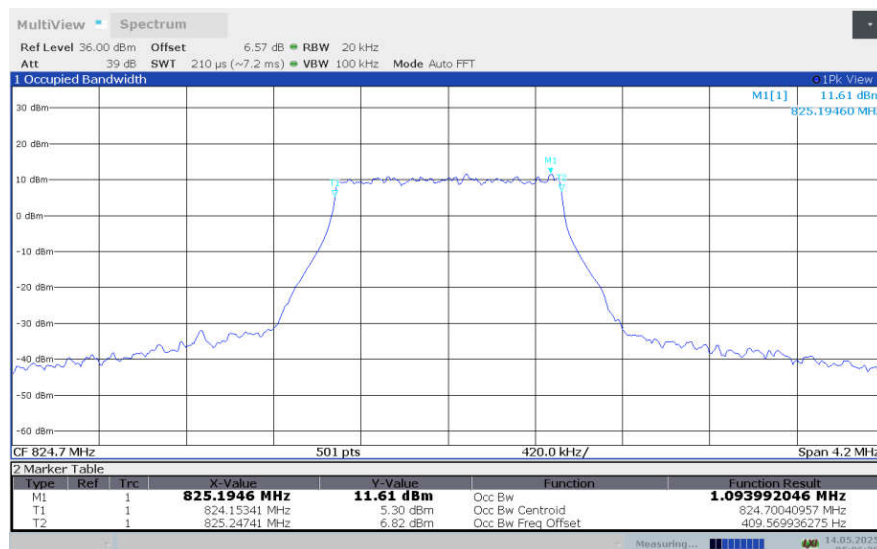
LTE band 5 , 1.4MHz Bandwidth,HIGH,16QAM (99% BW)



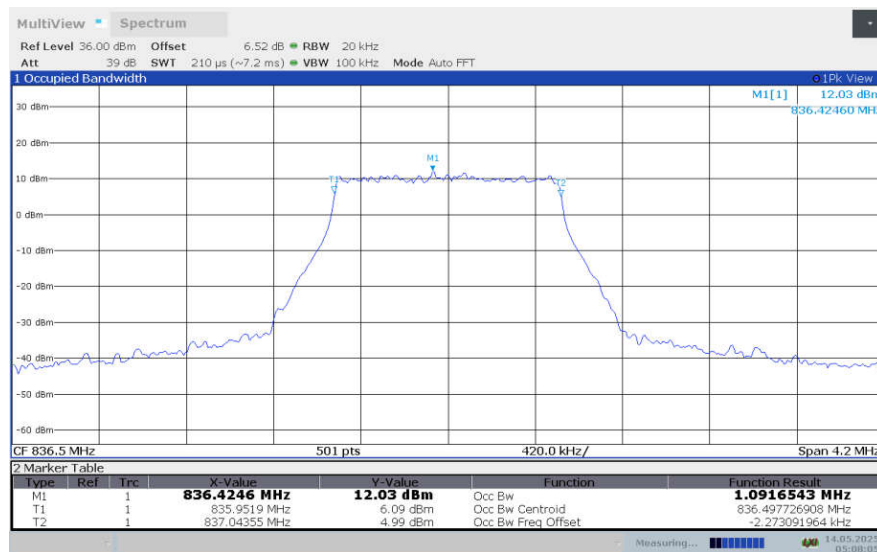
LTE band 5 , 1.4MHz Bandwidth,HIGH,64QAM (99% BW)



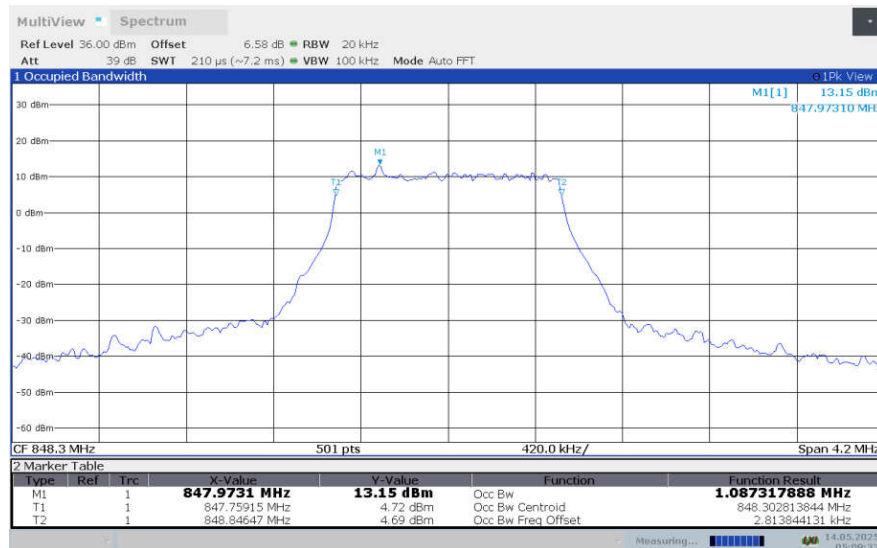
LTE band 5 , 1.4MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 5 , 1.4MHz Bandwidth,MID,256QAM (99% BW)



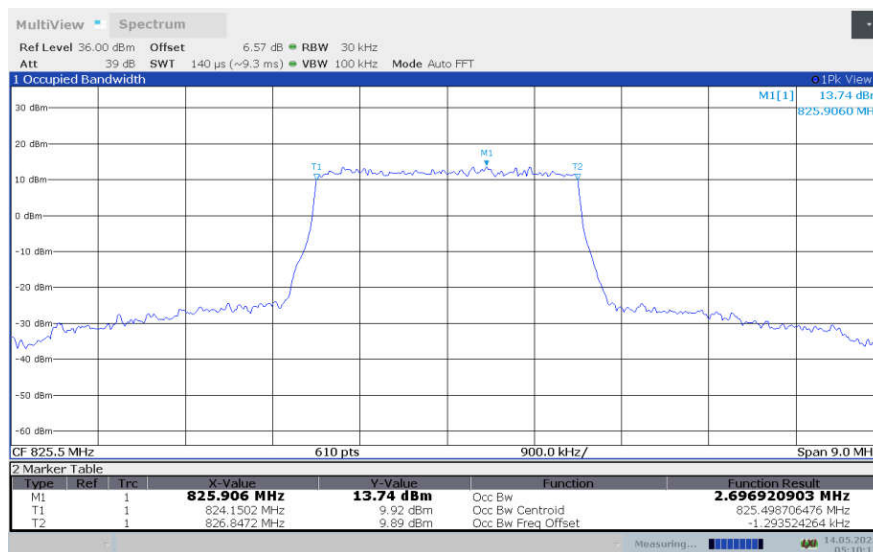
LTE band 5 , 1.4MHz Bandwidth,HIGH,256QAM (99% BW)



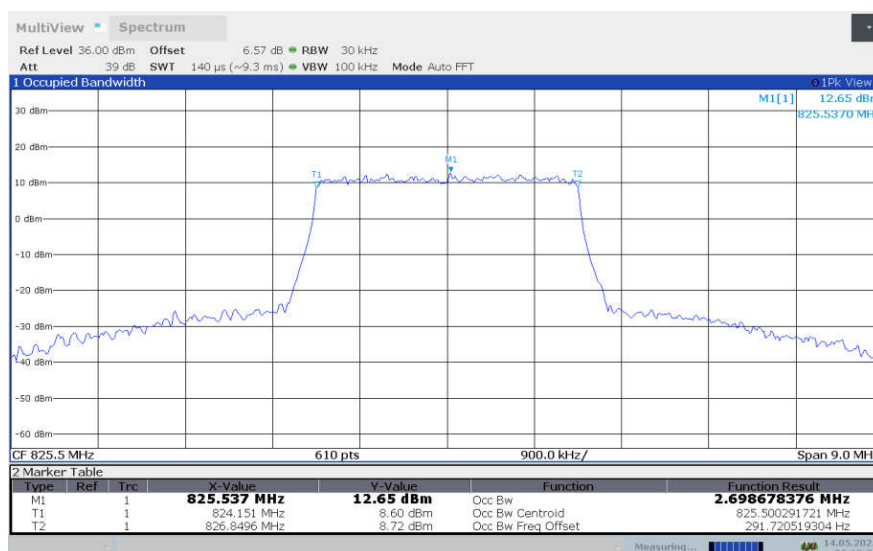
LTE band 5,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
825.5	2.697	2.699	2.696	2.695
836.5	2.706	2.706	2.700	2.693
847.5	2.697	2.696	2.696	2.696

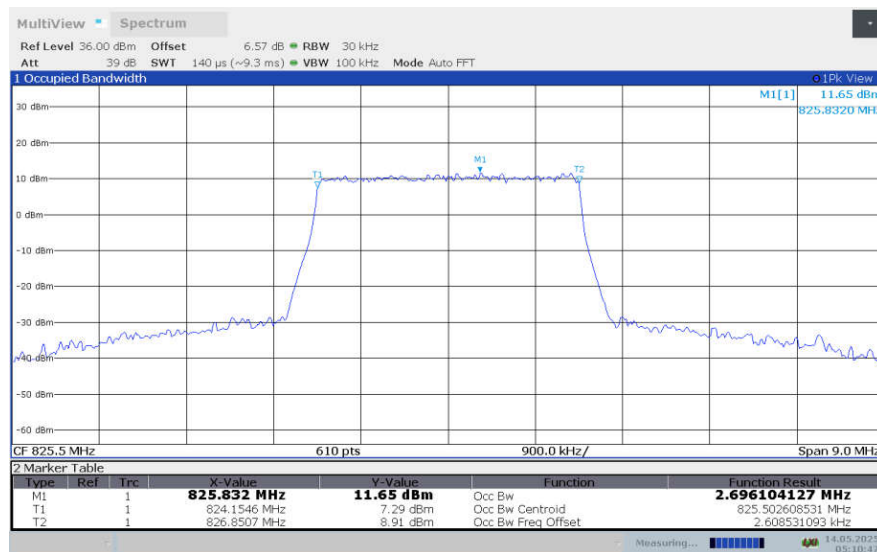
LTE band 5 , 3MHz Bandwidth,LOW,QPSK (99% BW)



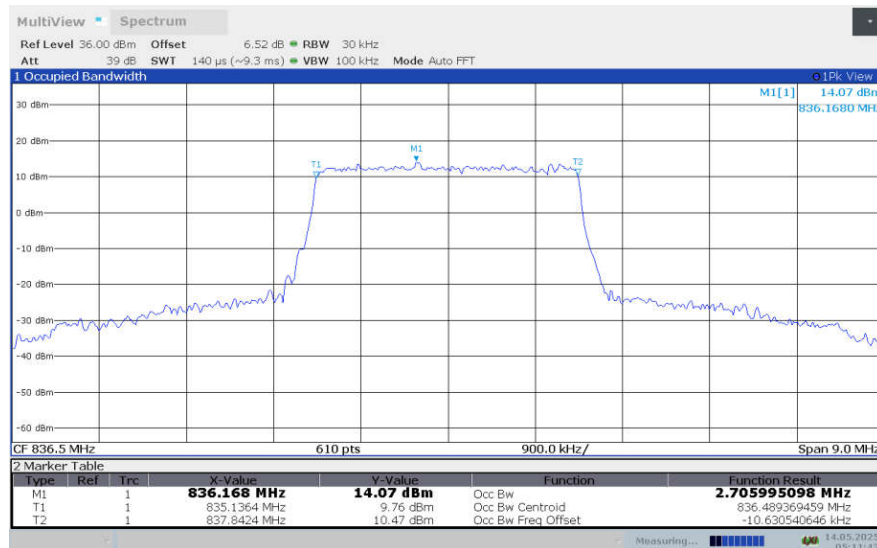
LTE band 5 , 3MHz Bandwidth,LOW,16QAM (99% BW)



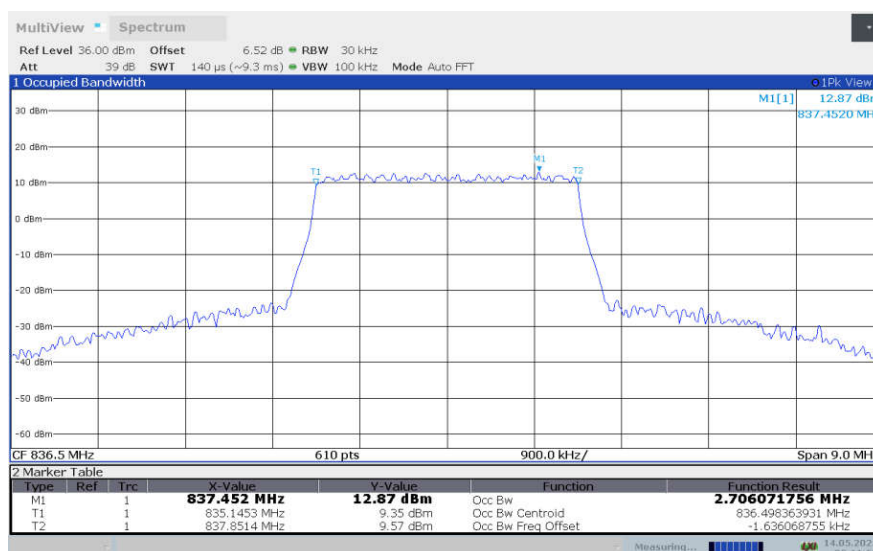
LTE band 5 , 3MHz Bandwidth,LOW,64QAM (99% BW)



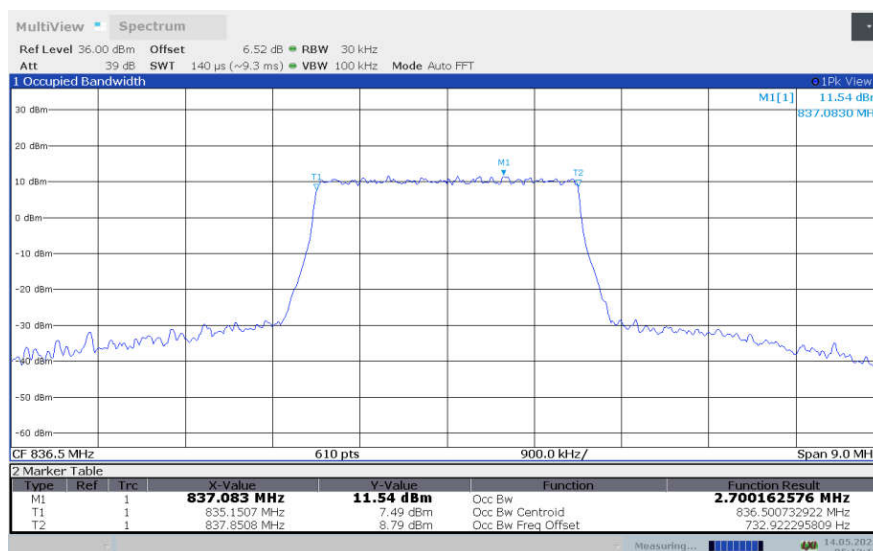
LTE band 5 , 3MHz Bandwidth,MID,QPSK (99% BW)



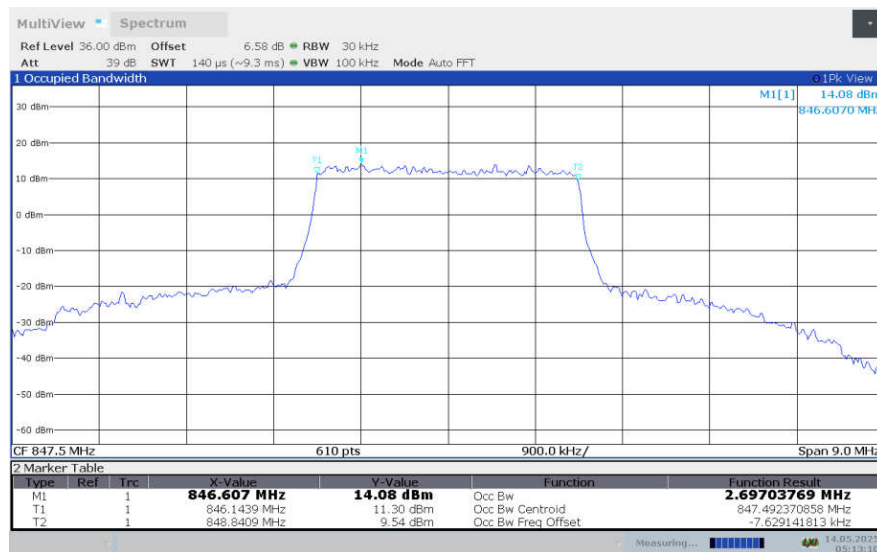
LTE band 5 , 3MHz Bandwidth,MID,16QAM (99% BW)



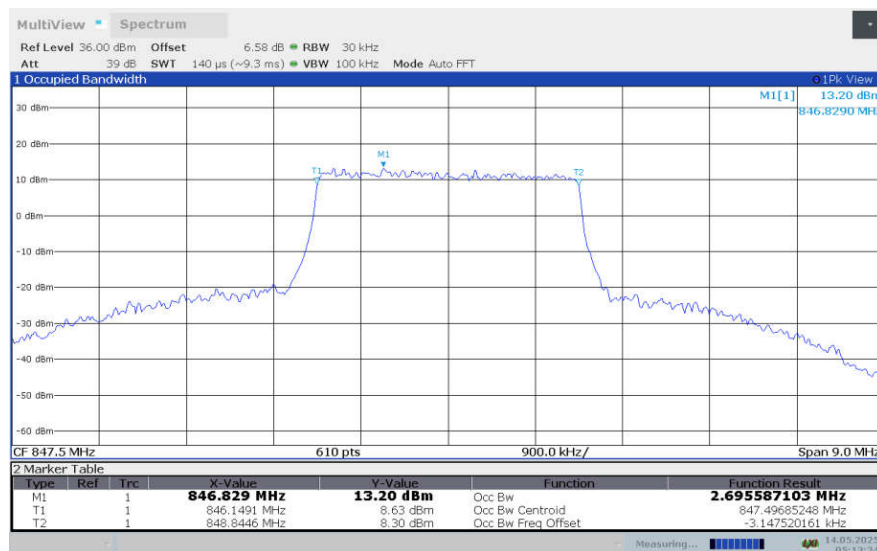
LTE band 5 , 3MHz Bandwidth,MID,64QAM (99% BW)



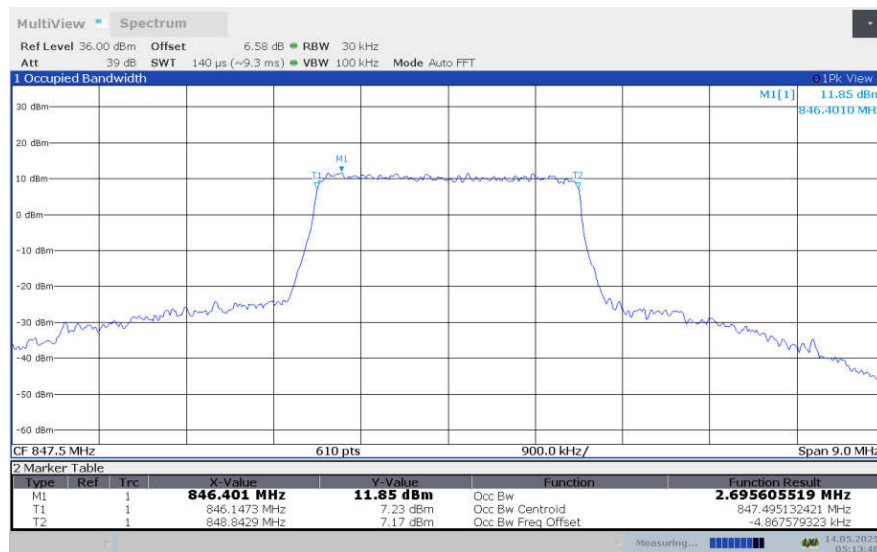
LTE band 5 , 3MHz Bandwidth,HIGH,QPSK (99% BW)



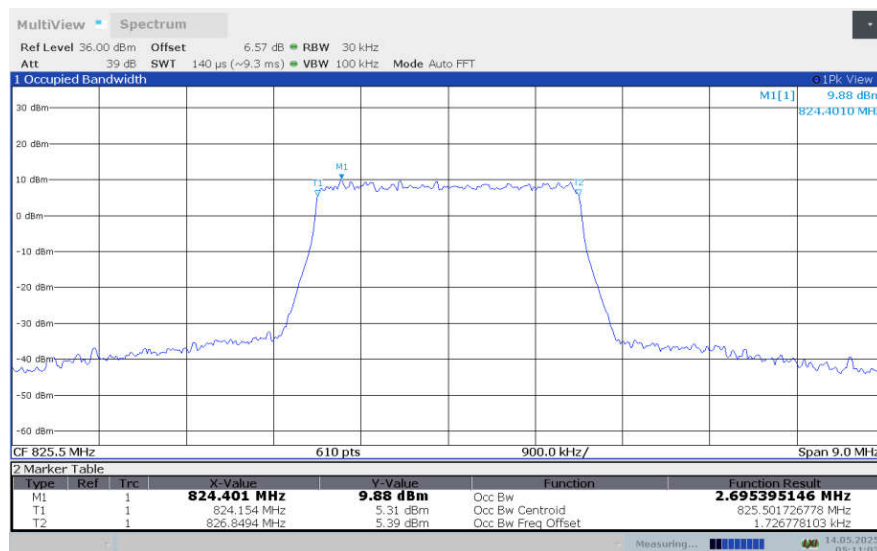
LTE band 5 , 3MHz Bandwidth,HIGH,16QAM (99% BW)



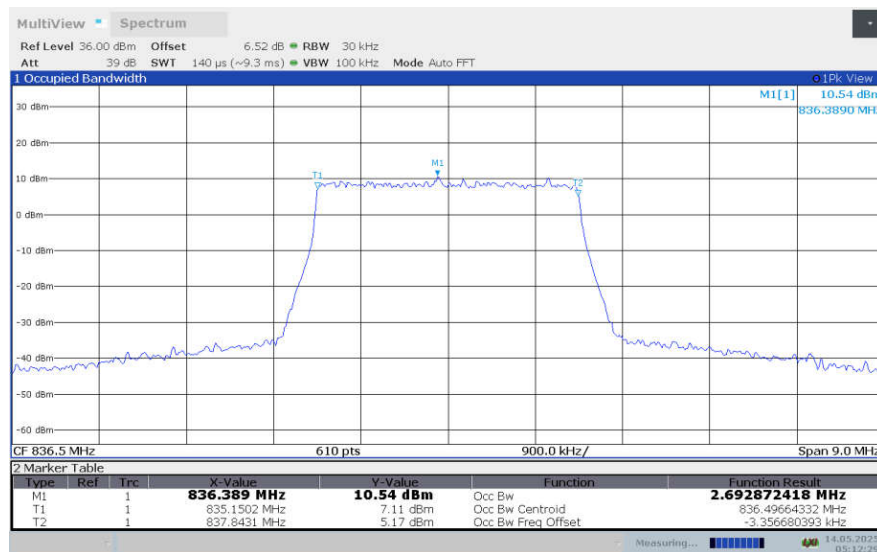
LTE band 5 , 3MHz Bandwidth,HIGH,64QAM (99% BW)



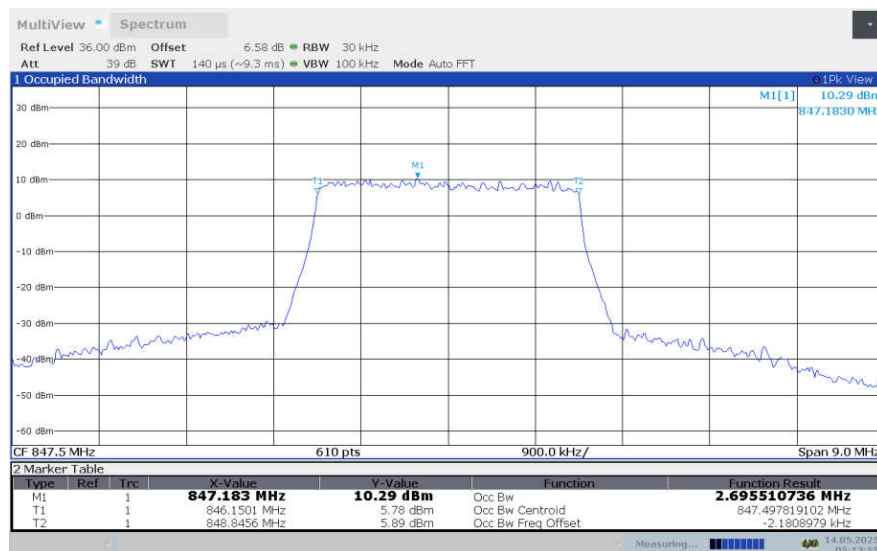
LTE band 5 , 3MHz Bandwidth,LOW,256QAM (99% BW)



LTE band 5 , 3MHz Bandwidth,MID,256QAM (99% BW)



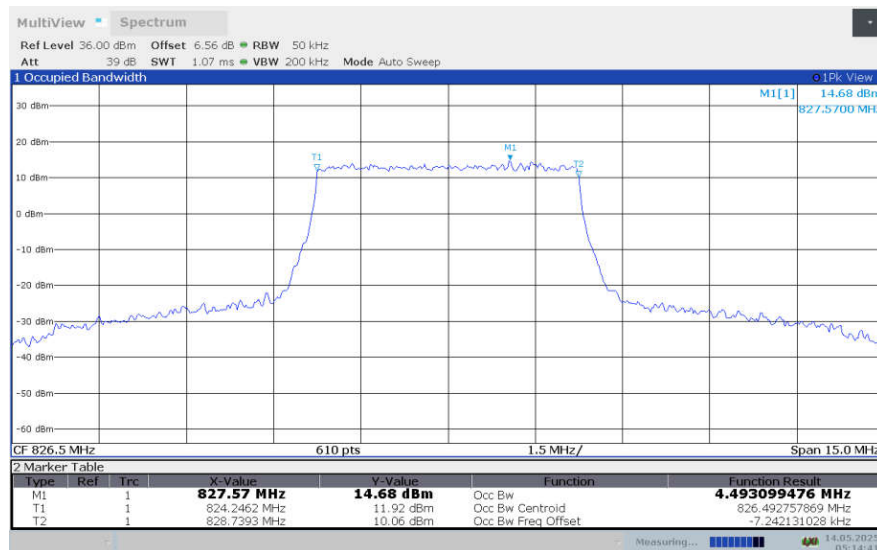
LTE band 5 , 3MHz Bandwidth,HIGH,256QAM (99% BW)



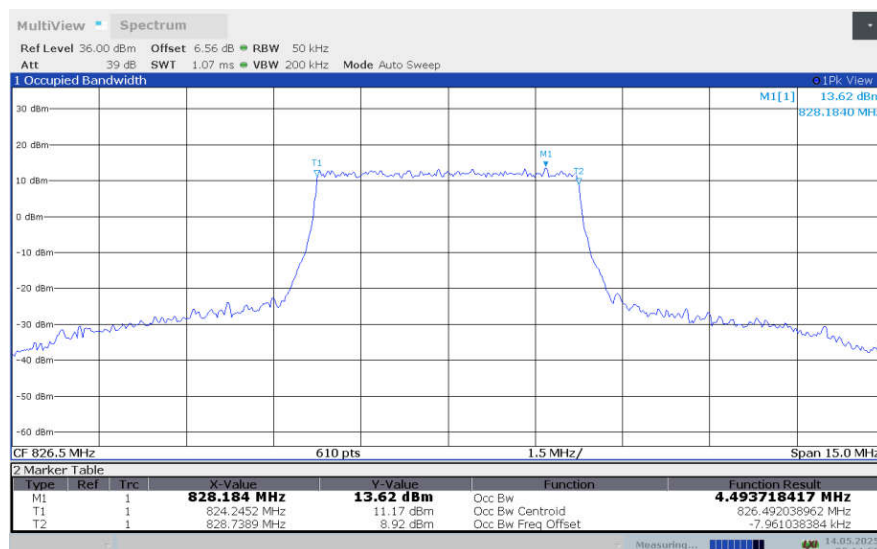
LTE band 5,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)			
	QPSK	16QAM	64QAM	256QAM
826.5	4.493	4.494	4.499	4.502
836.5	4.490	4.484	4.491	4.495
846.5	4.499	4.492	4.491	4.493

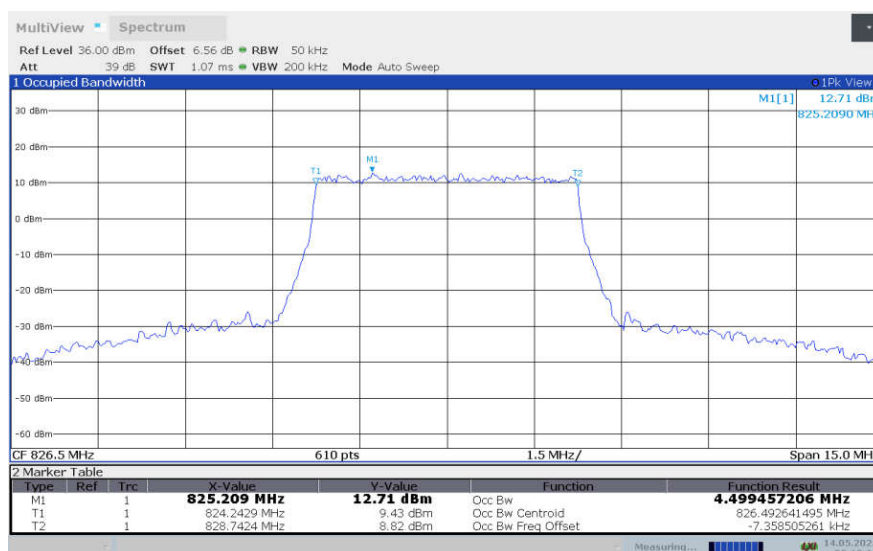
LTE band 5 , 5MHz Bandwidth,LOW,QPSK (99% BW)



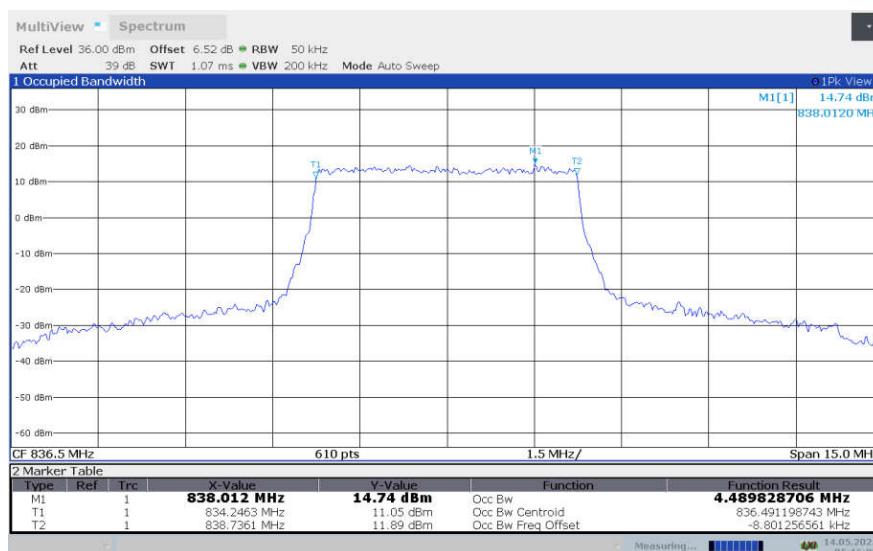
LTE band 5 , 5MHz Bandwidth,LOW,16QAM (99% BW)



LTE band 5 , 5MHz Bandwidth,LOW,64QAM (99% BW)



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



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