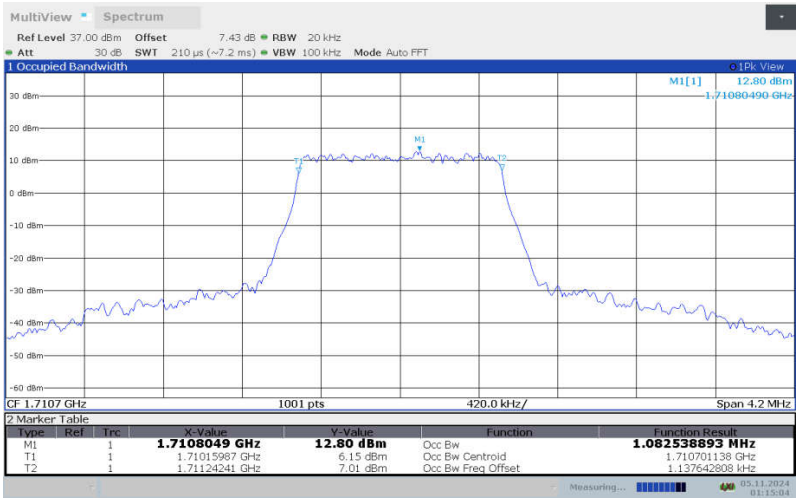
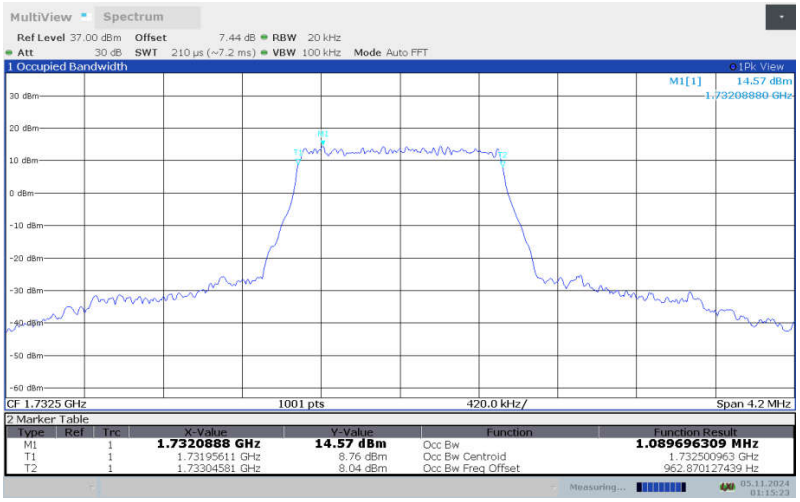


LTE band 4 , 1.4MHz Bandwidth, MID, QPSK (99% BW)



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

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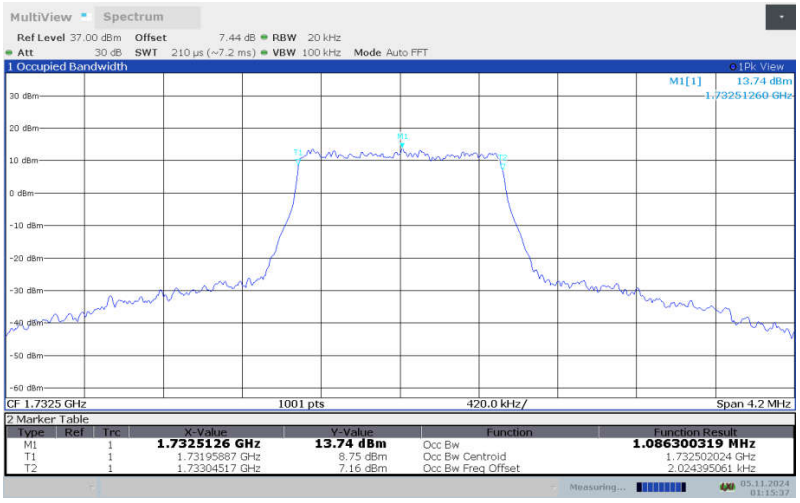
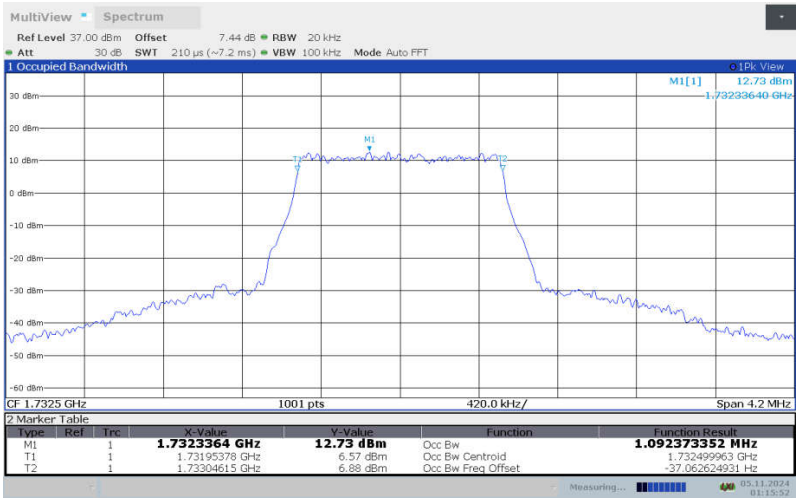


LTE band 4 , 1.4MHz Bandwidth, MID, 64QAM (99% BW)



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

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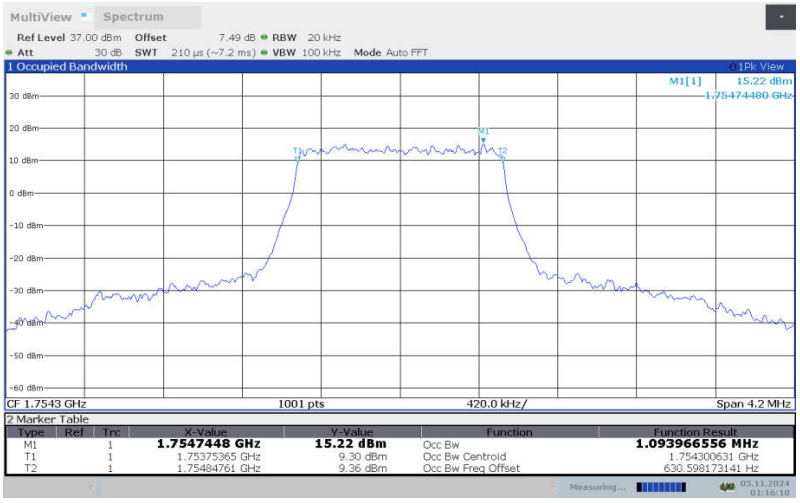
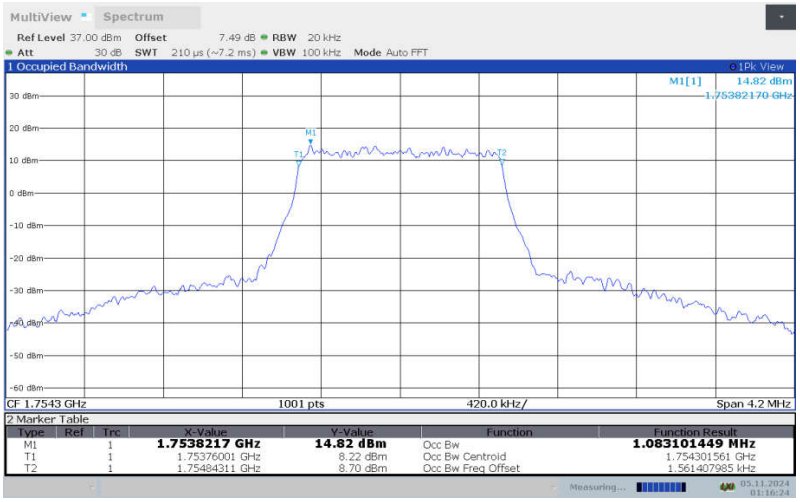


LTE band 4 , 1.4MHz Bandwidth, HIGH, 16QAM (99% BW)



LTE band 4 , 1.4MHz Bandwidth, HIGH, 64QAM (99% BW)

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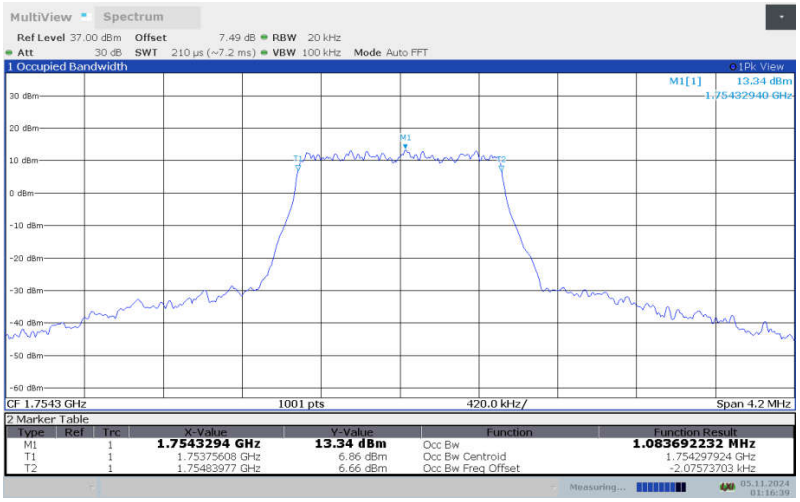

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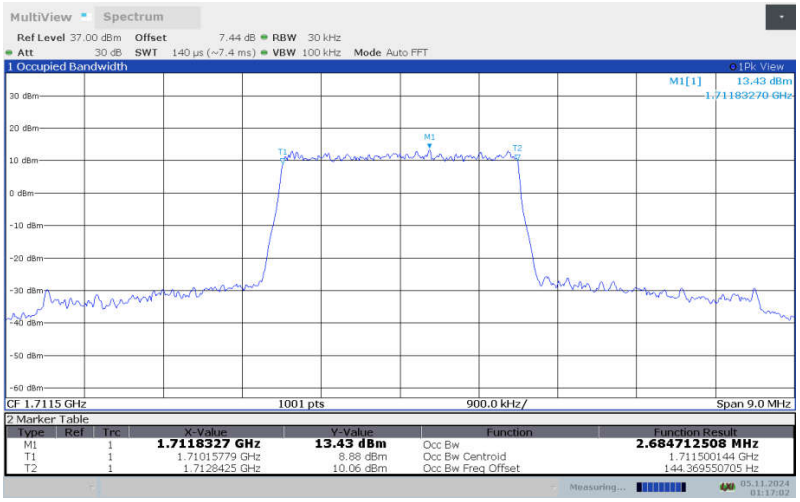
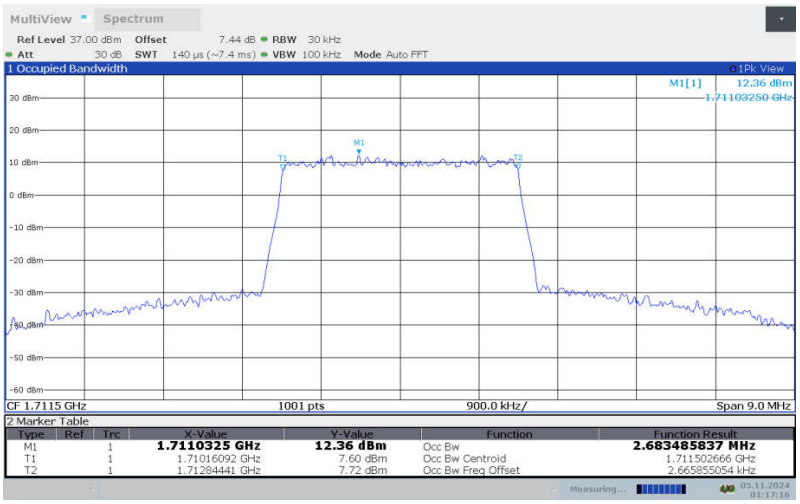
LTE band 4,3MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
1711.5	2.685	2.683	2.685
1732.5	2.684	2.687	2.686
1753.5	2.687	2.684	2.689

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



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



LTE band 4 , 3MHz Bandwidth, LOW, 64QAM (99% BW)

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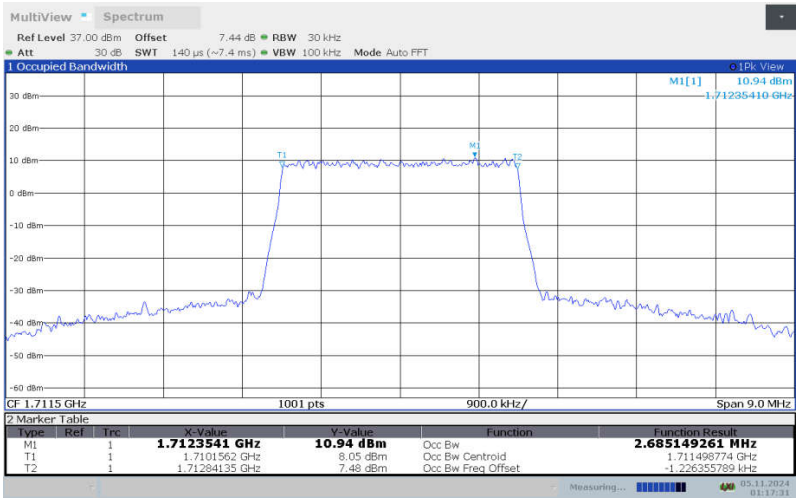
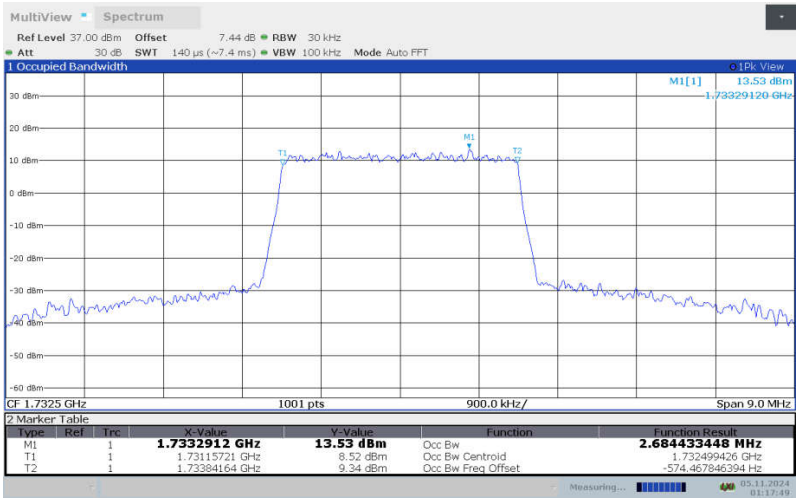


LTE band 4 , 3MHz Bandwidth, MID, QPSK (99% BW)



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

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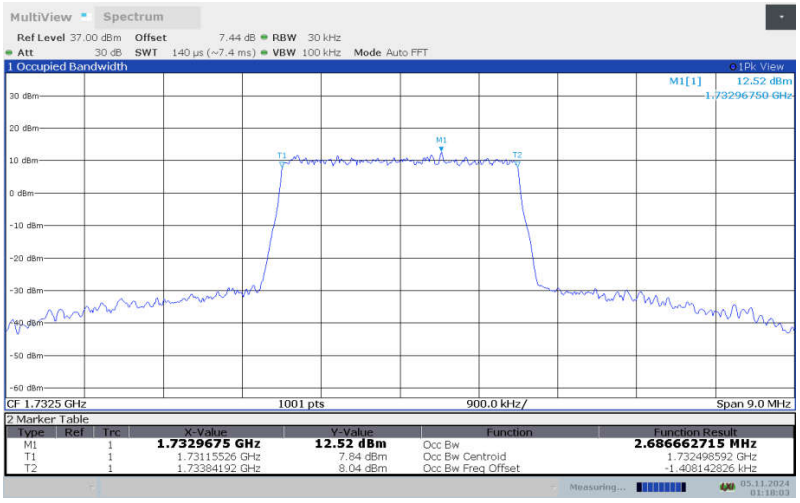
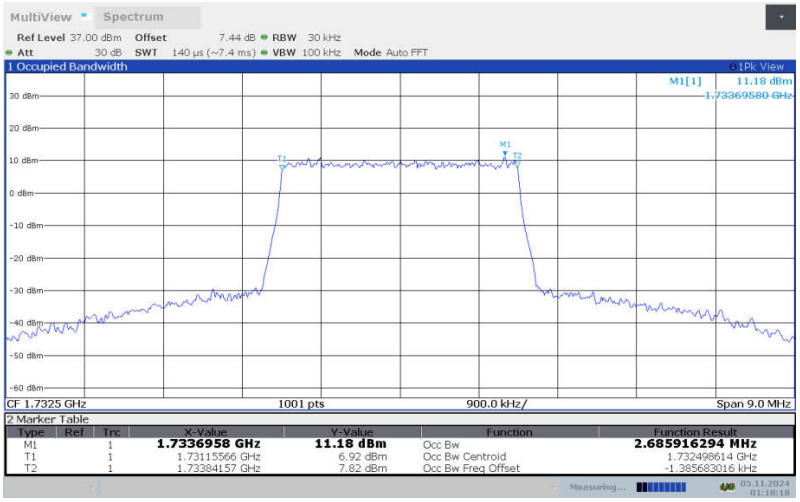


LTE band 4 , 3MHz Bandwidth, MID, 64QAM (99% BW)



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

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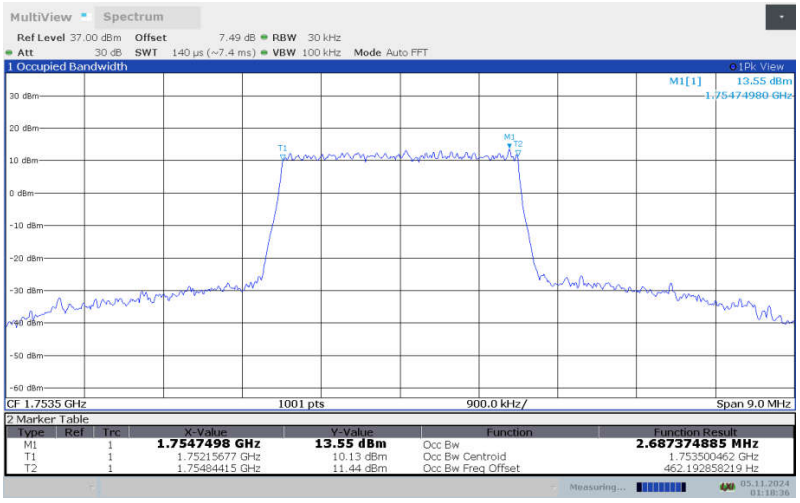
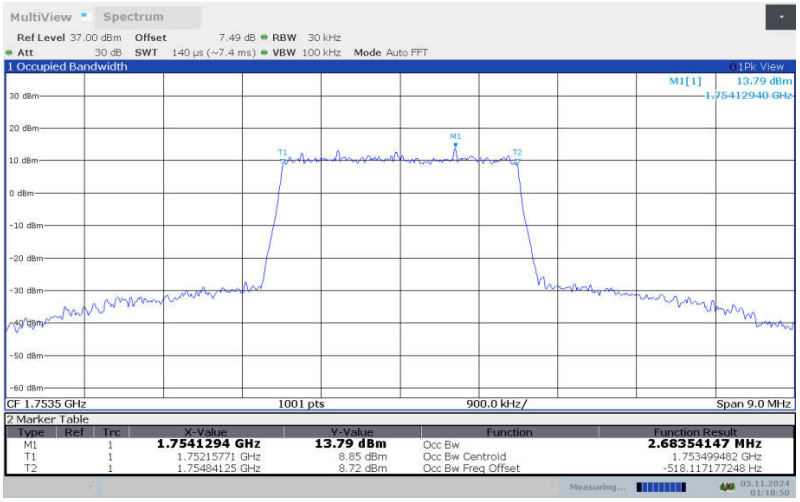


LTE band 4 , 3MHz Bandwidth, HIGH, 16QAM (99% BW)



LTE band 4 , 3MHz Bandwidth, HIGH, 64QAM (99% BW)

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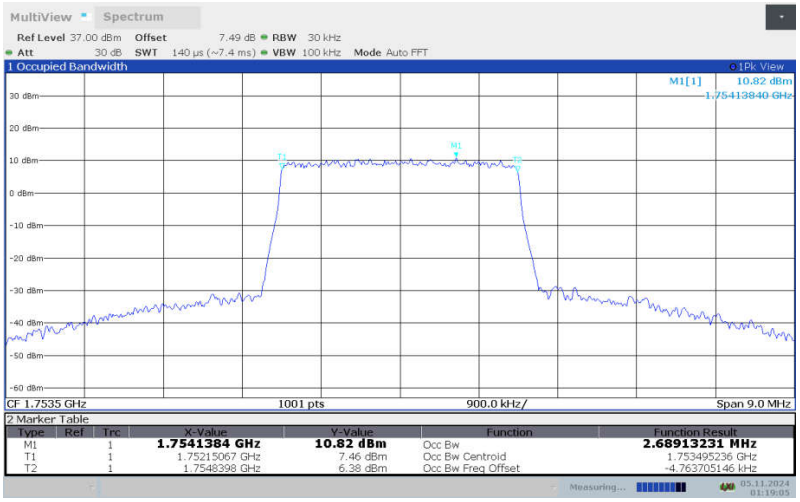

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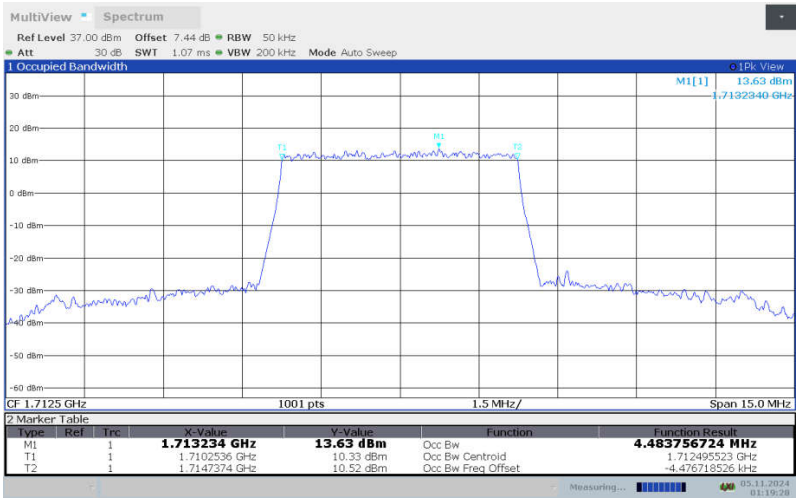
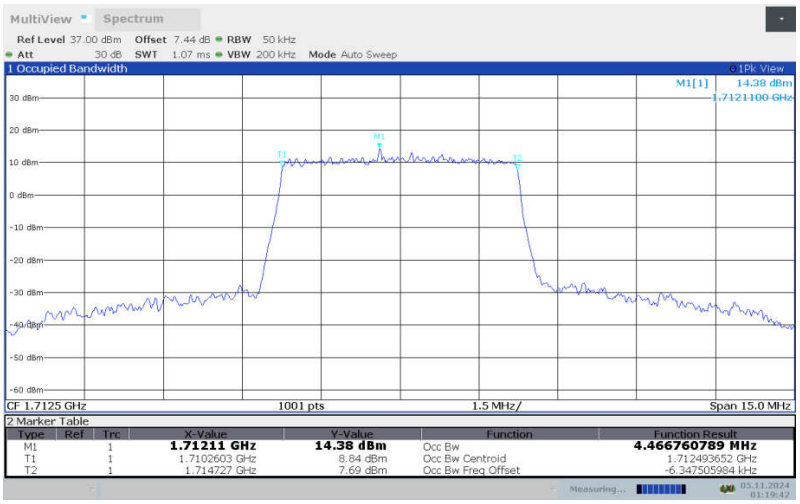
LTE band 4,5MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
1712.5	4.484	4.467	4.467
1732.5	4.481	4.482	4.474
1752.5	4.464	4.473	4.465

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)

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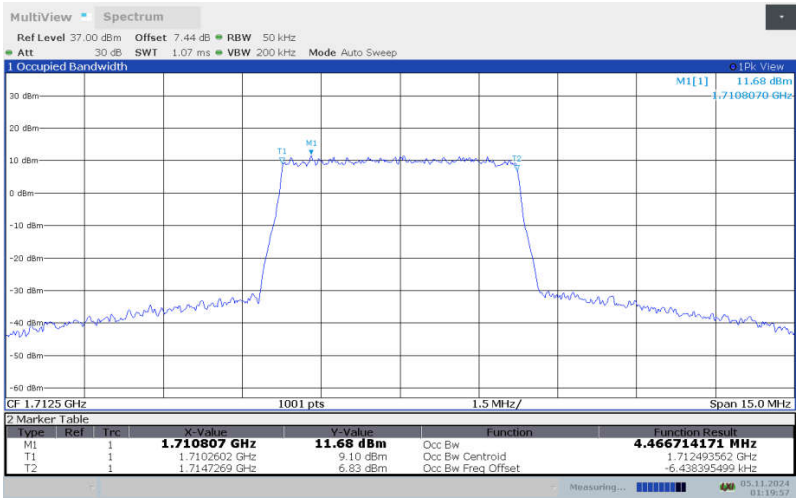
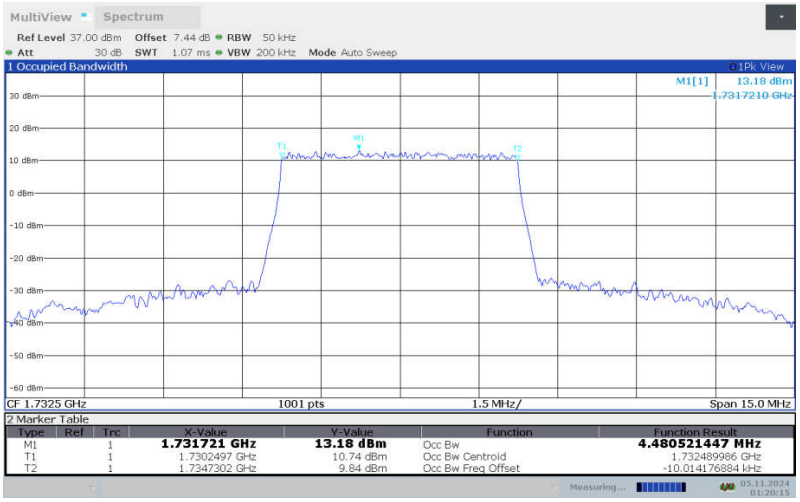


LTE band 4 , 5MHz Bandwidth, MID, QPSK (99% BW)



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

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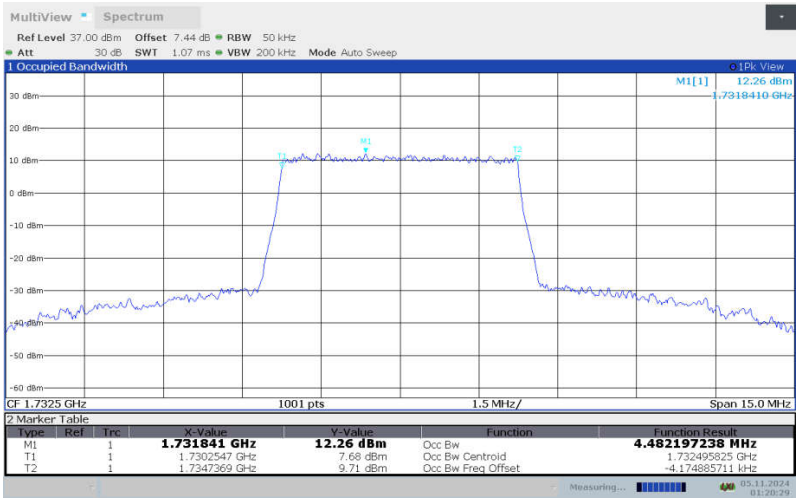
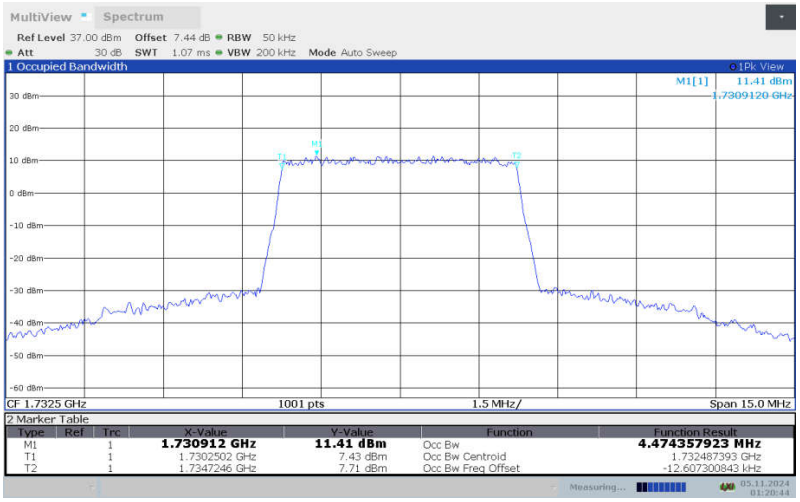


LTE band 4 , 5MHz Bandwidth, MID, 64QAM (99% BW)



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

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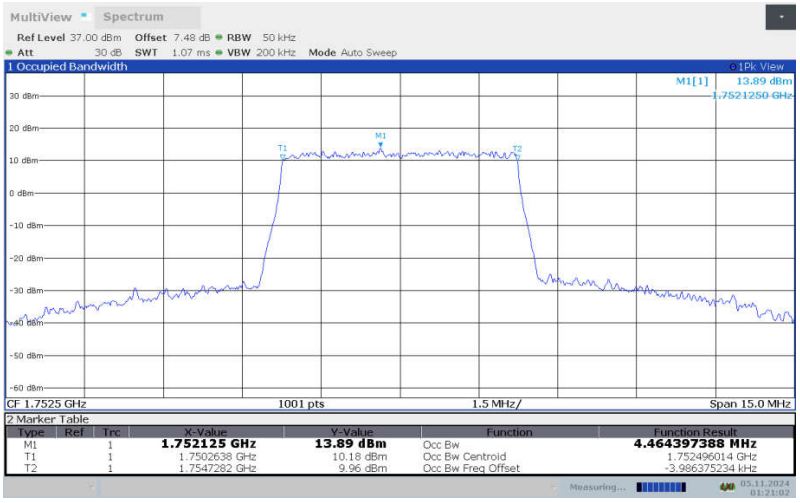
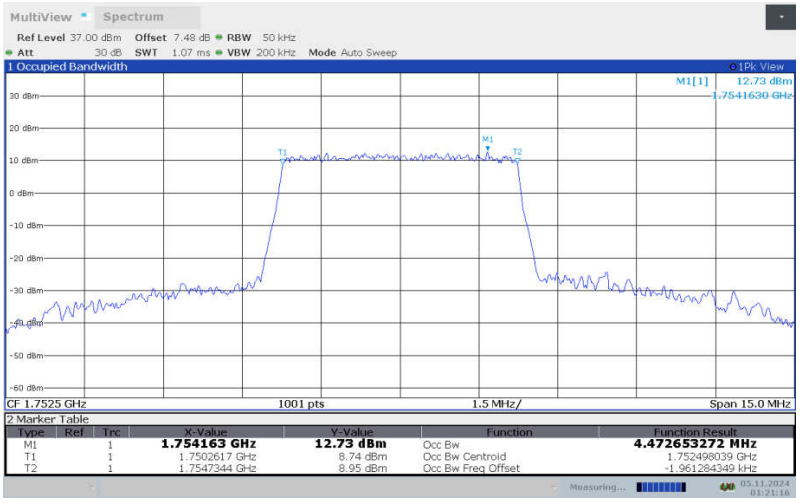


LTE band 4 , 5MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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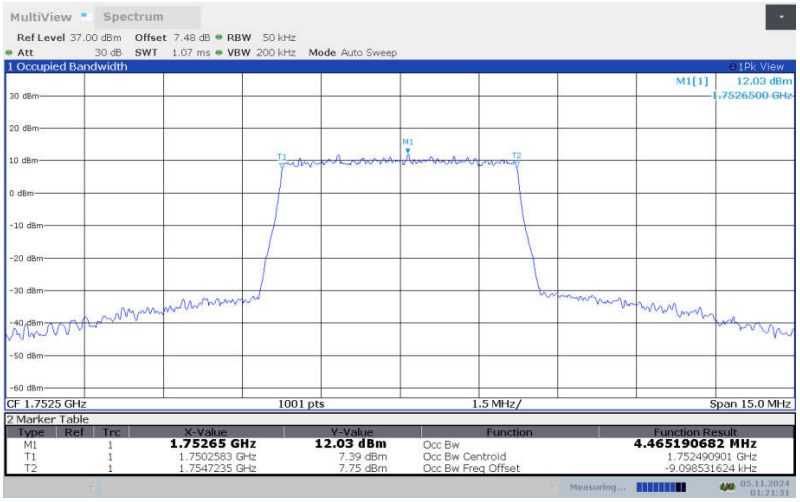

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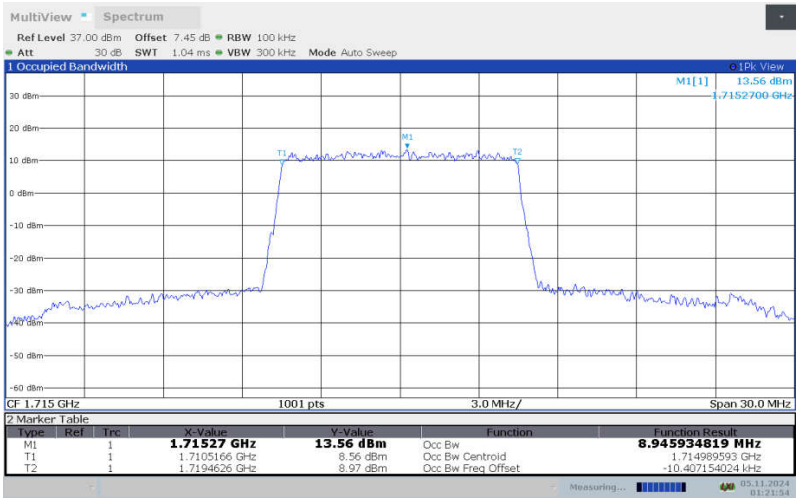
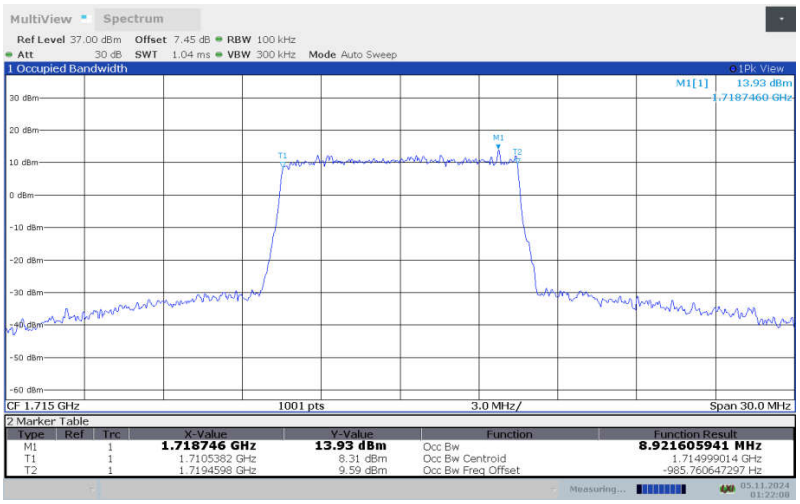
LTE band 4,10MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
1715	8.946	8.922	8.915
1732.5	8.930	8.926	8.937
1750	8.929	8.944	8.934

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)

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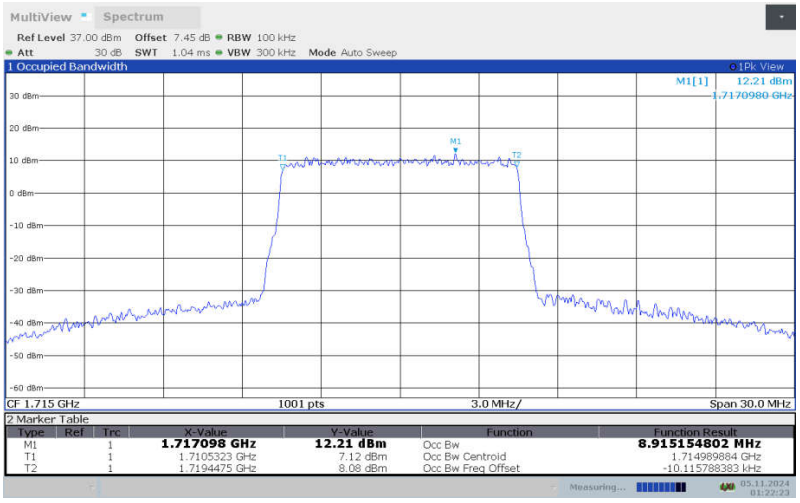
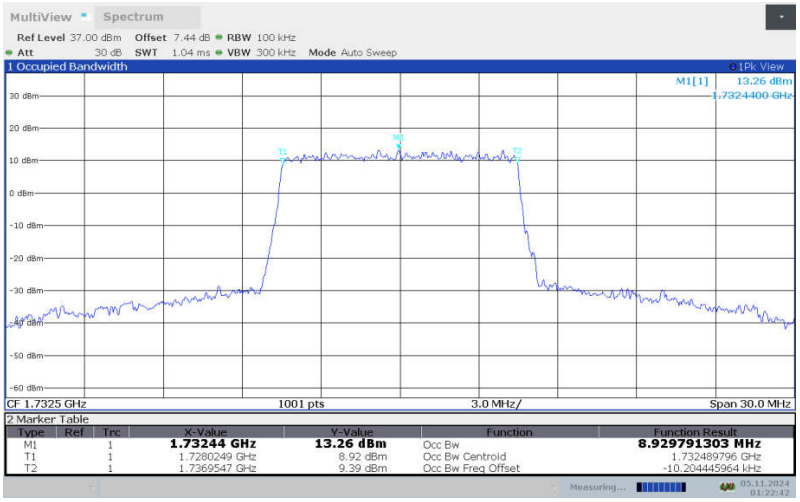


LTE band 4 , 10MHz Bandwidth, MID, QPSK (99% BW)



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

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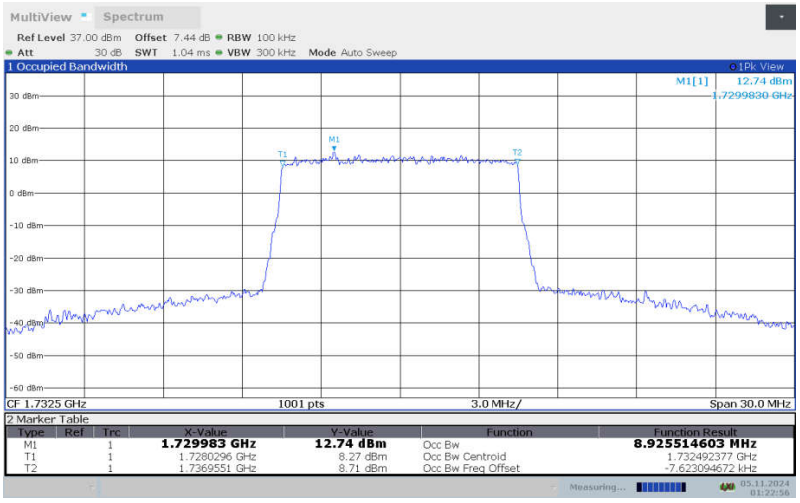
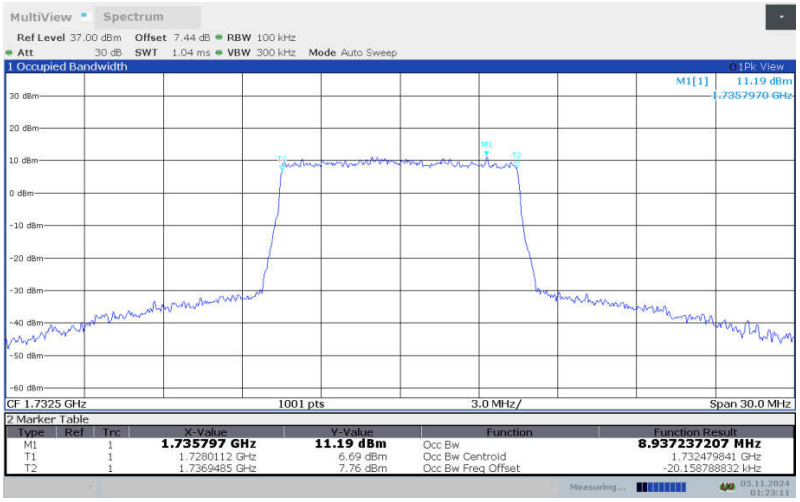


LTE band 4 , 10MHz Bandwidth, MID, 64QAM (99% BW)



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

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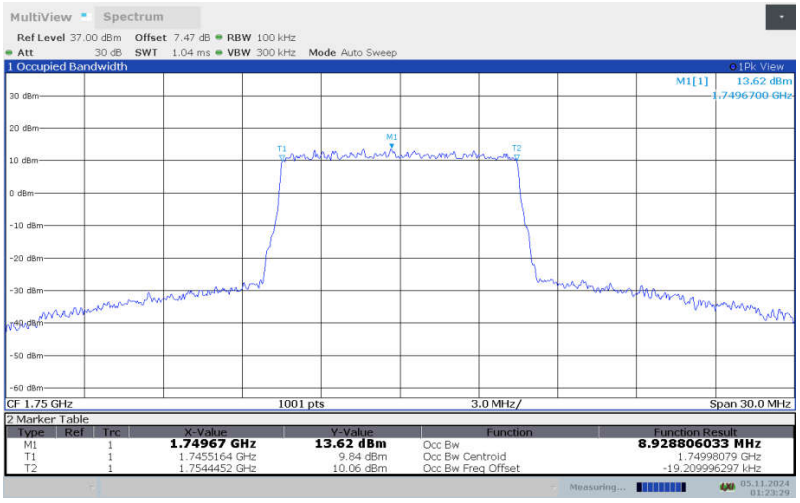
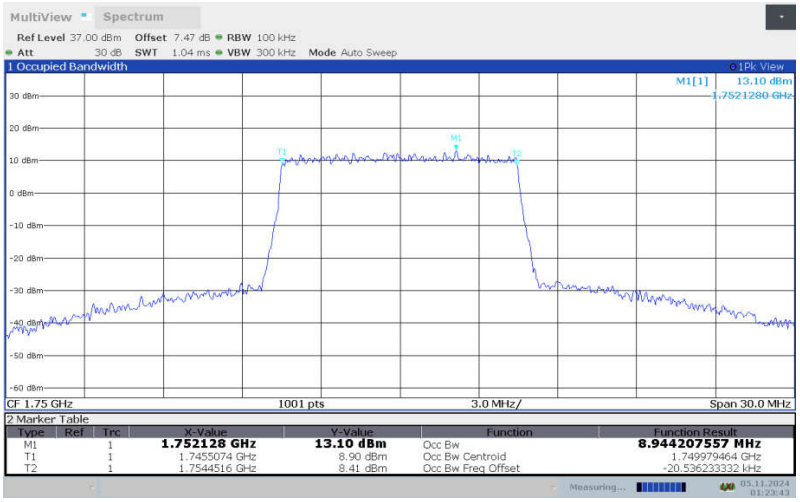


LTE band 4 , 10MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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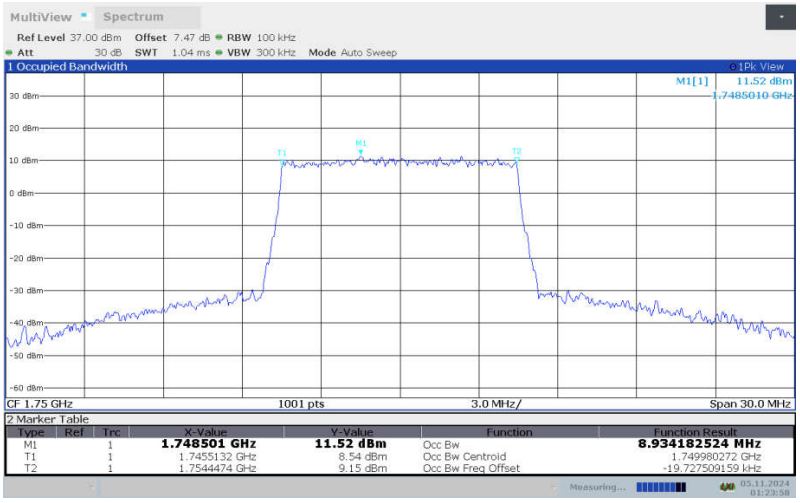

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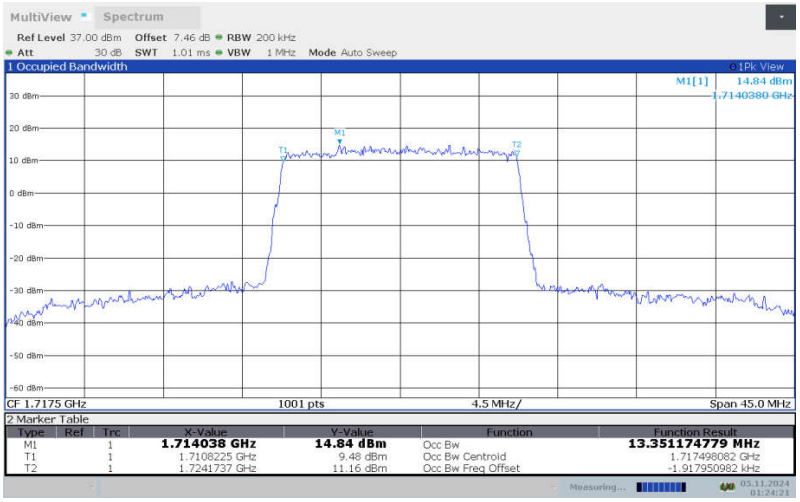
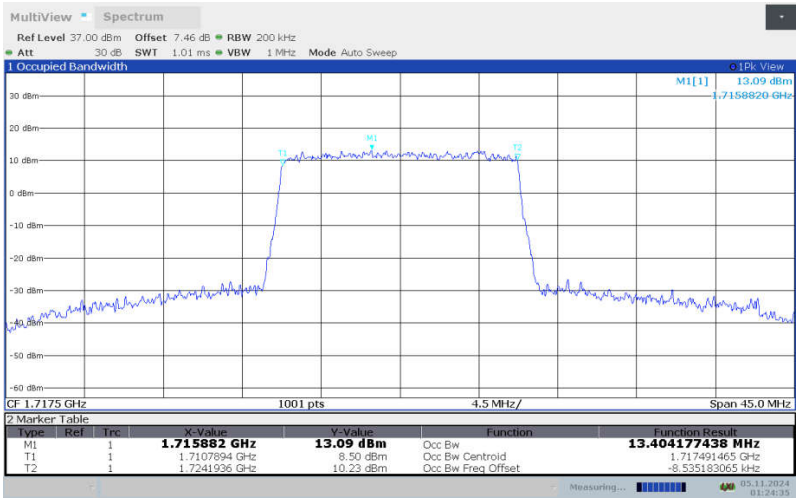
LTE band 4,15MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
1717.5	13.351	13.404	13.347
1732.5	13.386	13.371	13.394
1747.5	13.424	13.402	13.423

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)

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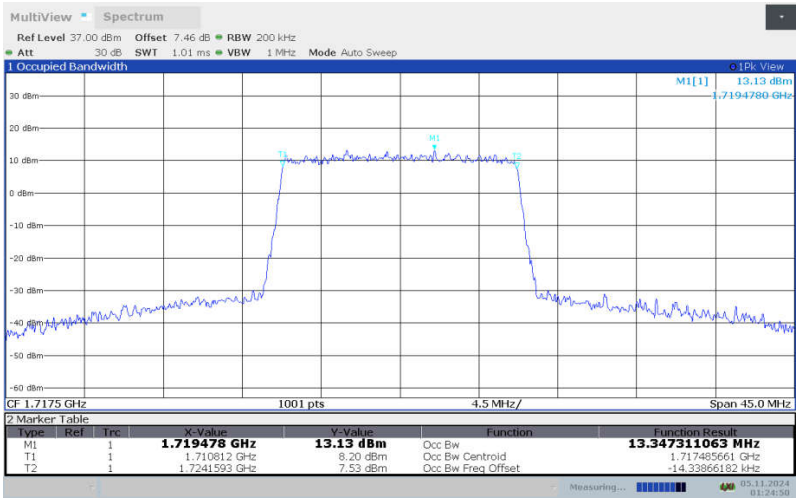
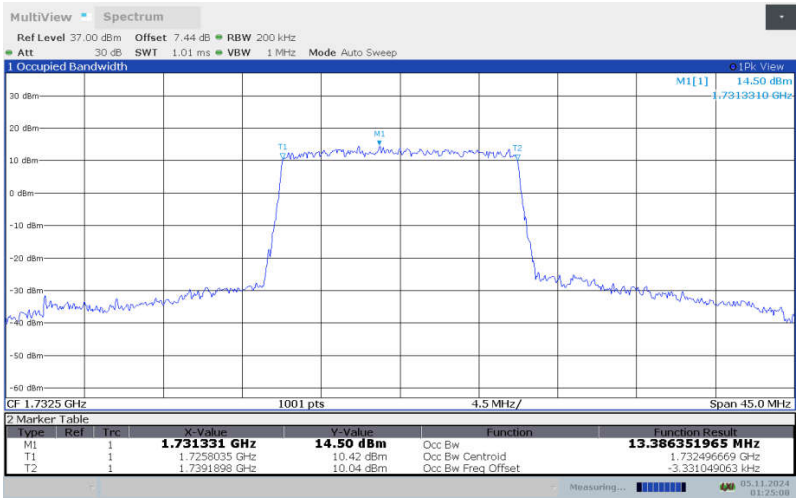


LTE band 4 , 15MHz Bandwidth, MID, QPSK (99% BW)



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

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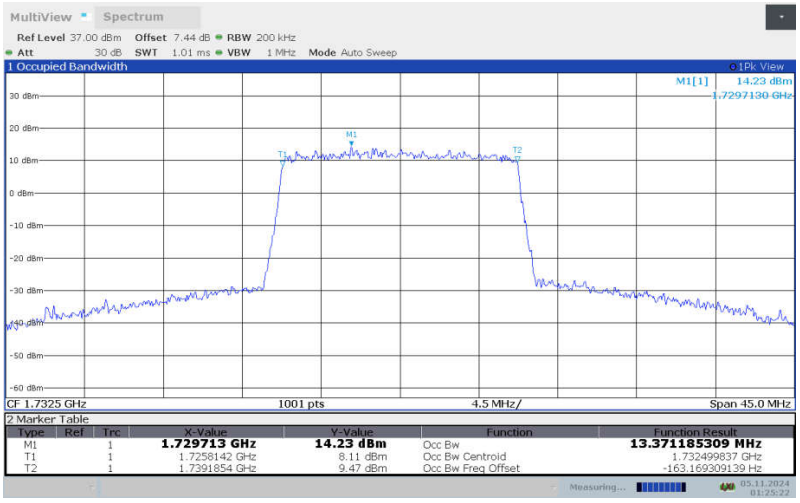
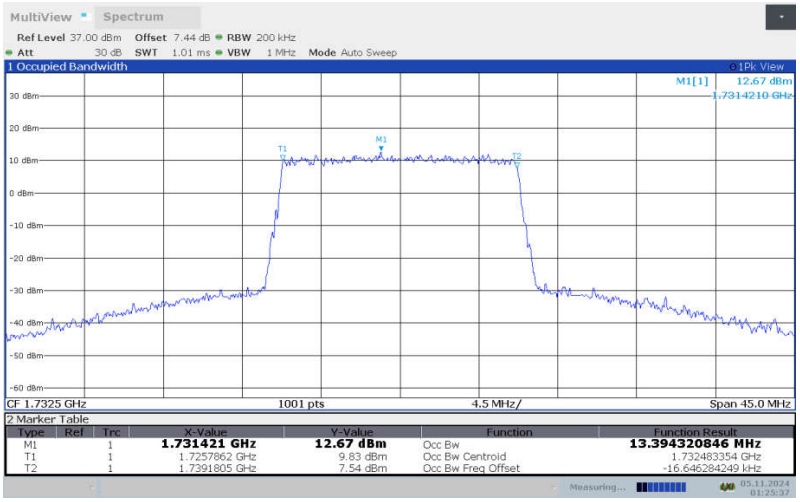


LTE band 4 , 15MHz Bandwidth, MID, 64QAM (99% BW)



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

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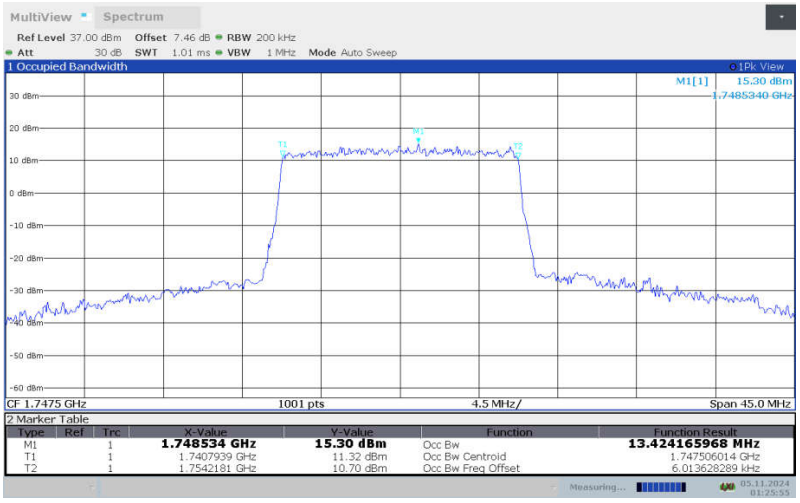
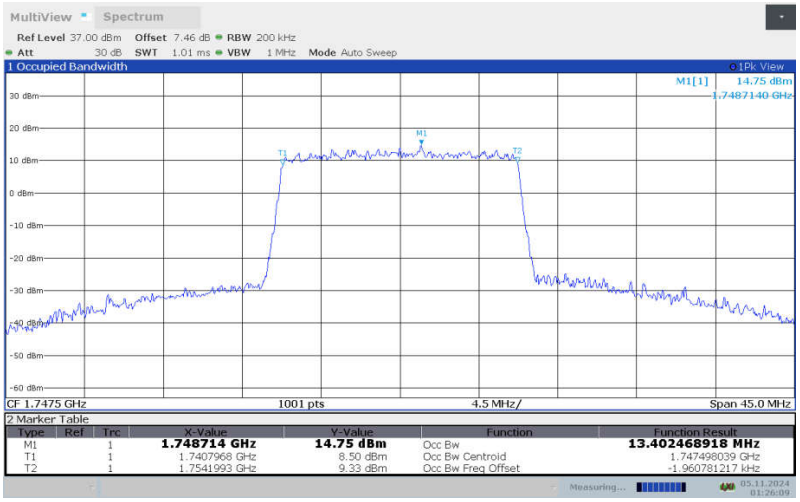


LTE band 4 , 15MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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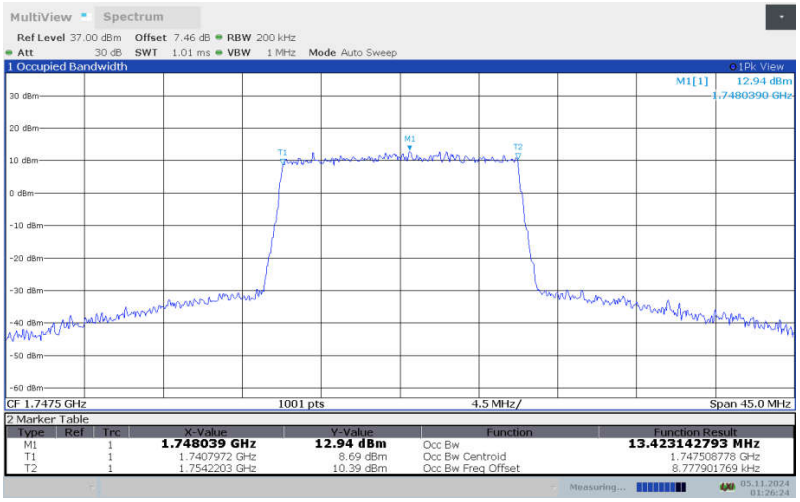

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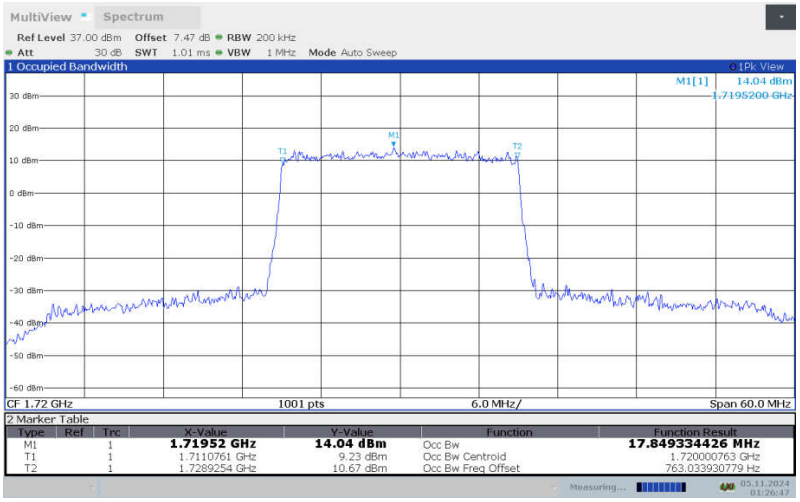
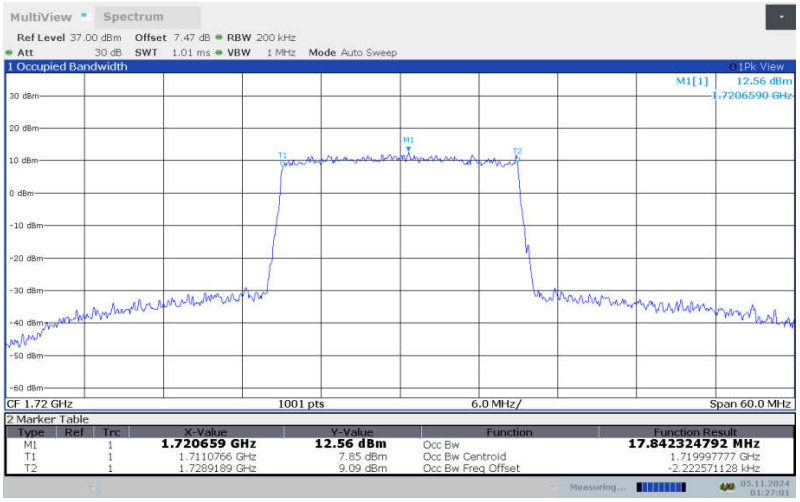
LTE band 4,20MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
1720	17.849	17.842	17.823
1732.5	17.846	17.882	17.865
1745	17.873	17.847	17.841

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)

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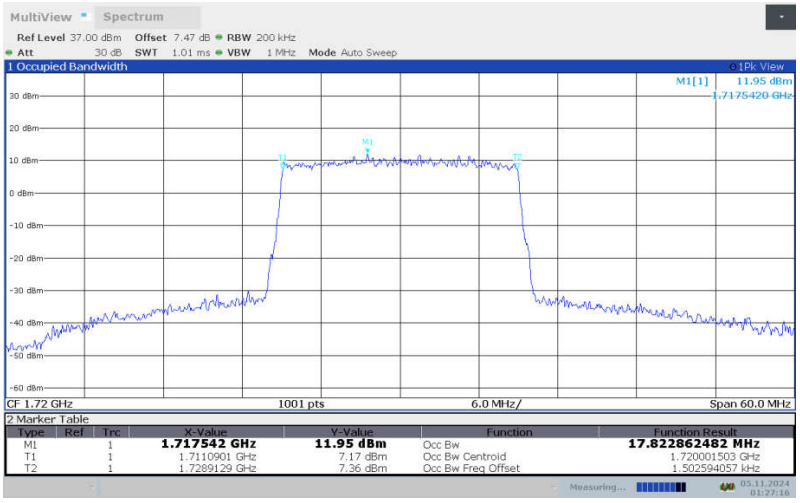
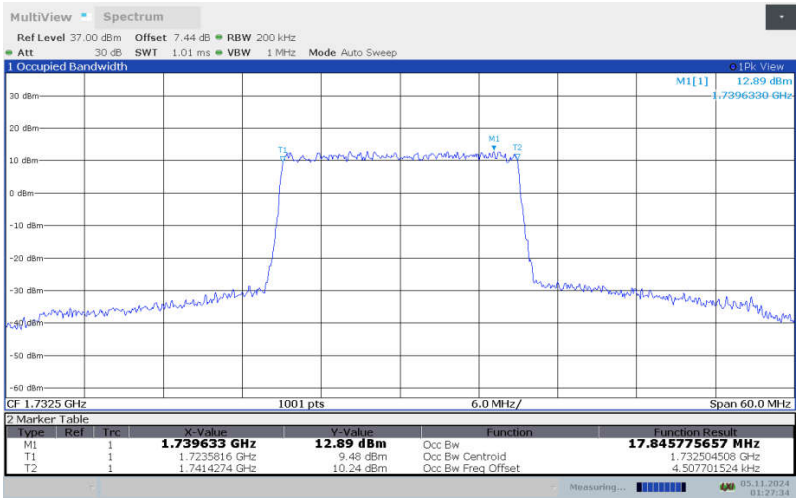


LTE band 4 , 20MHz Bandwidth, MID, QPSK (99% BW)



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

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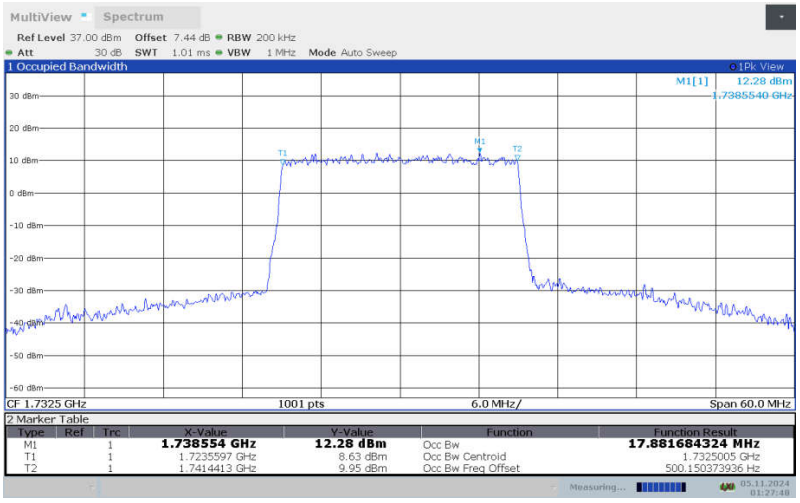
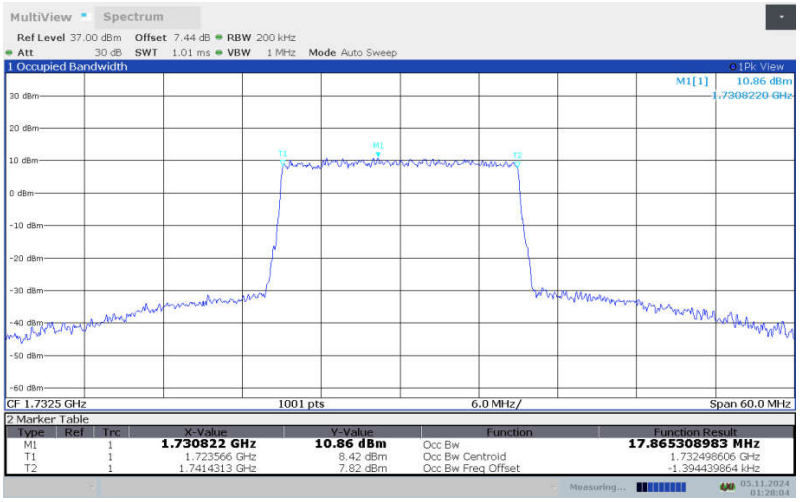


LTE band 4 , 20MHz Bandwidth, MID, 64QAM (99% BW)



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

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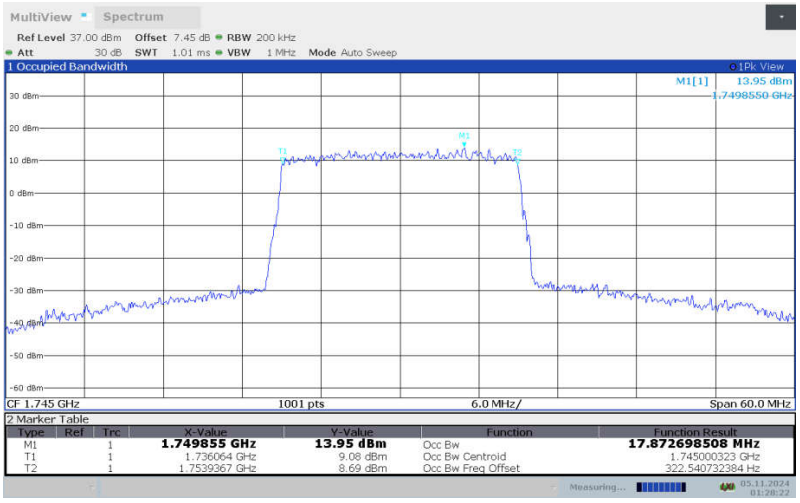
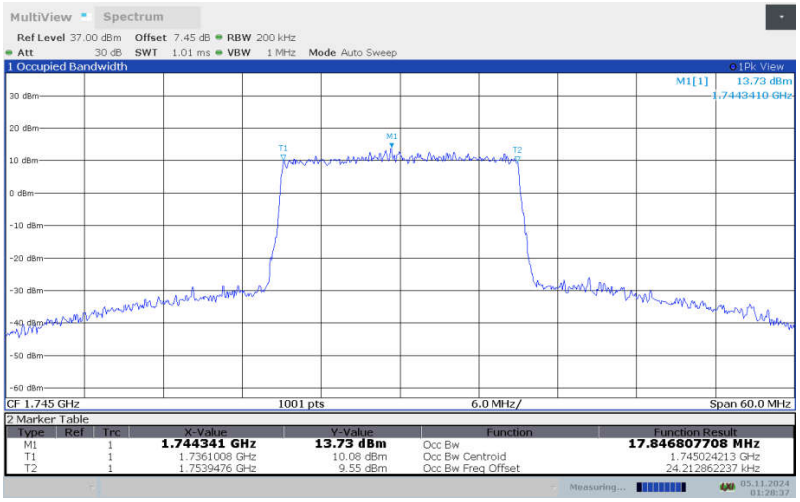


LTE band 4 , 20MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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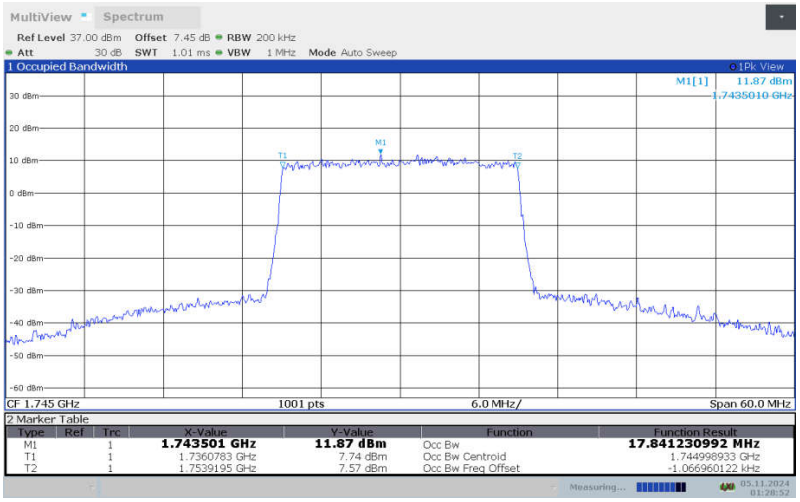

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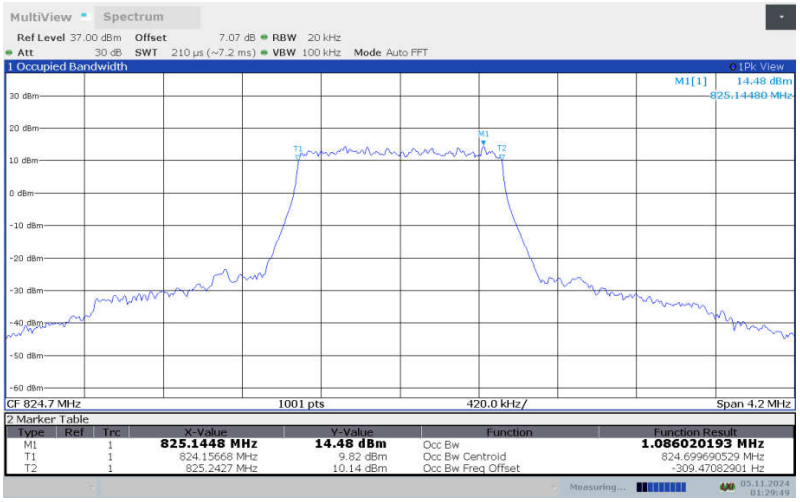
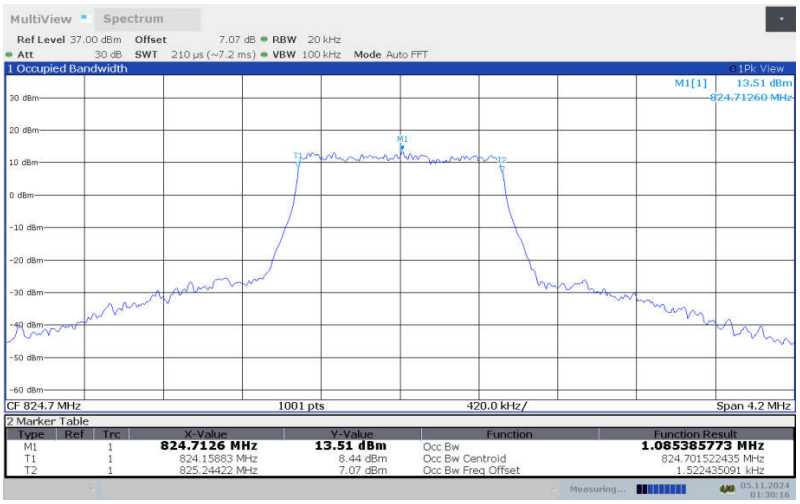
LTE band 5,1.4MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
824.7	1.086	1.085	1.092
836.5	1.089	1.089	1.085
848.3	1.084	1.088	1.083

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)

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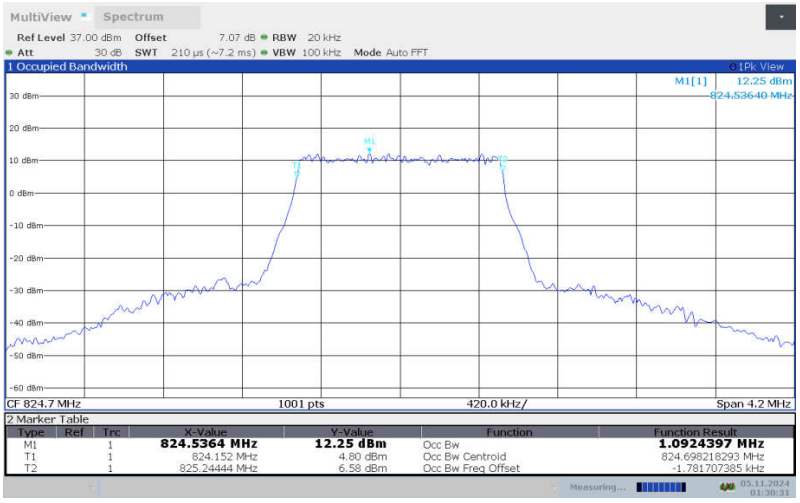
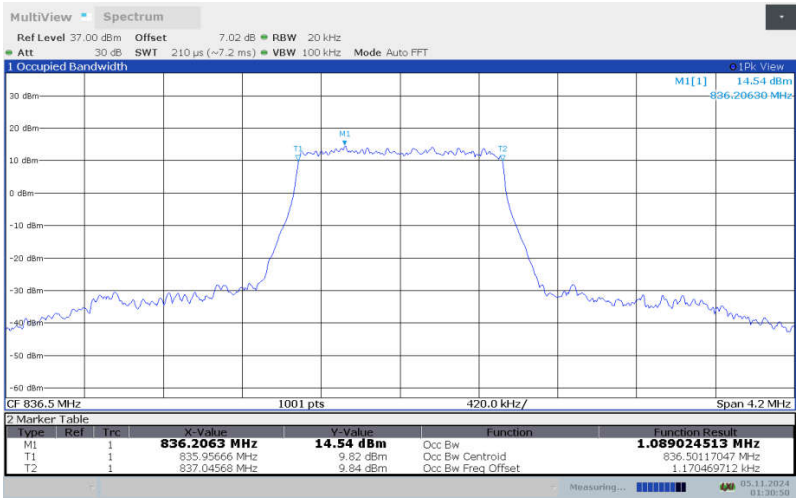


LTE band 5 , 1.4MHz Bandwidth, MID, QPSK (99% BW)



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

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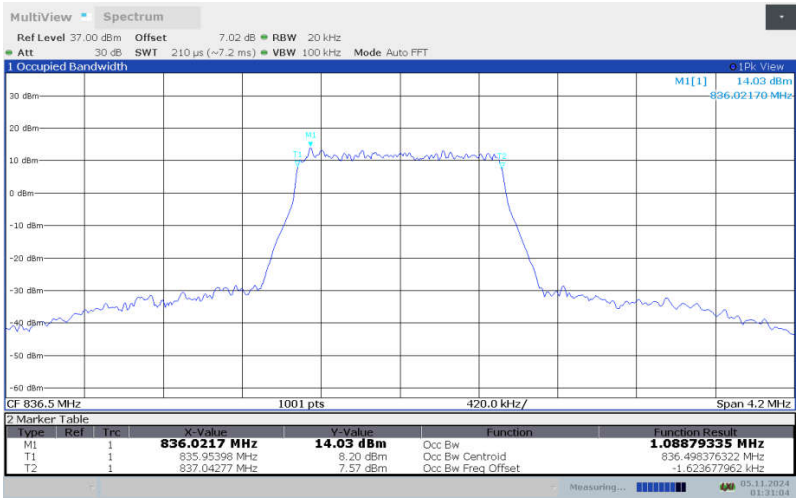
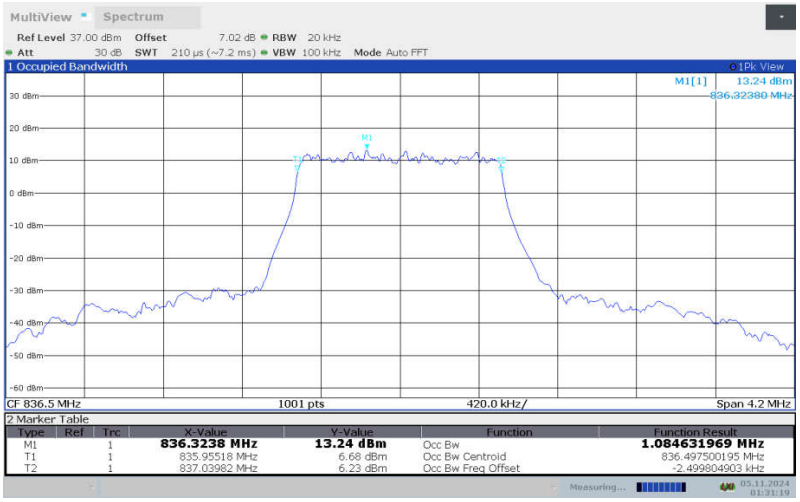


LTE band 5 , 1.4MHz Bandwidth, MID, 64QAM (99% BW)



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

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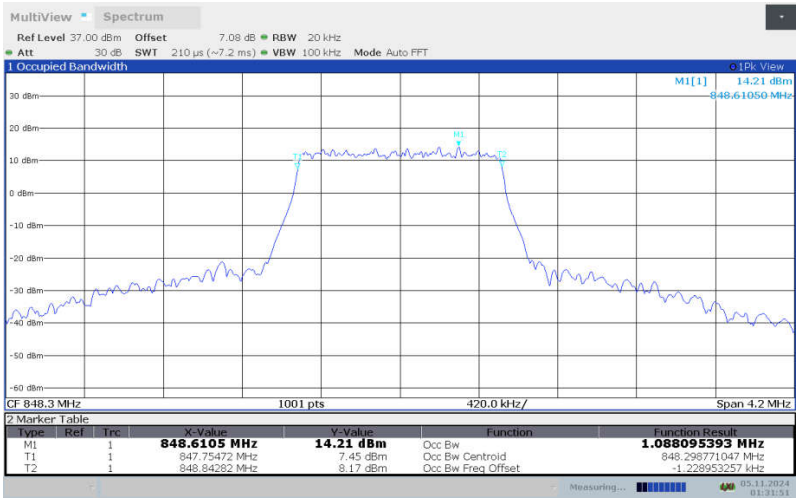
LTE band 5 , 1.4MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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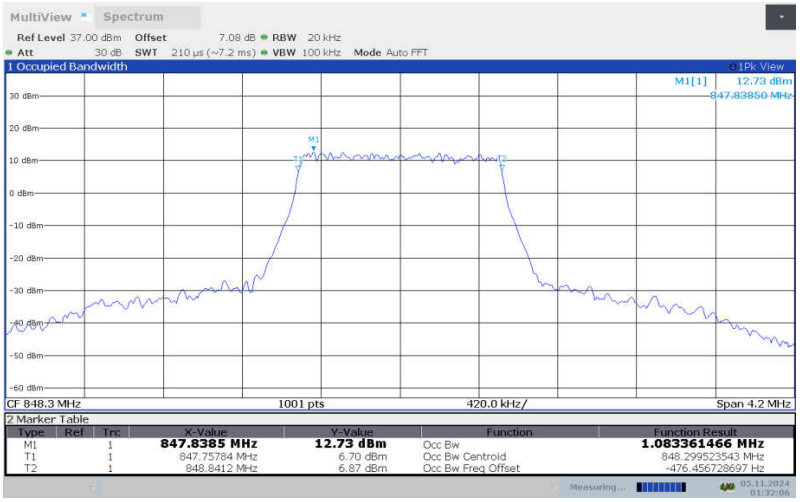

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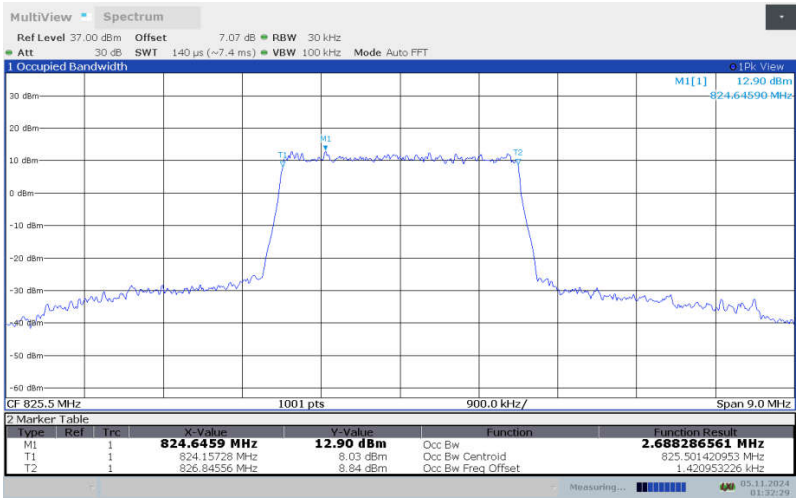
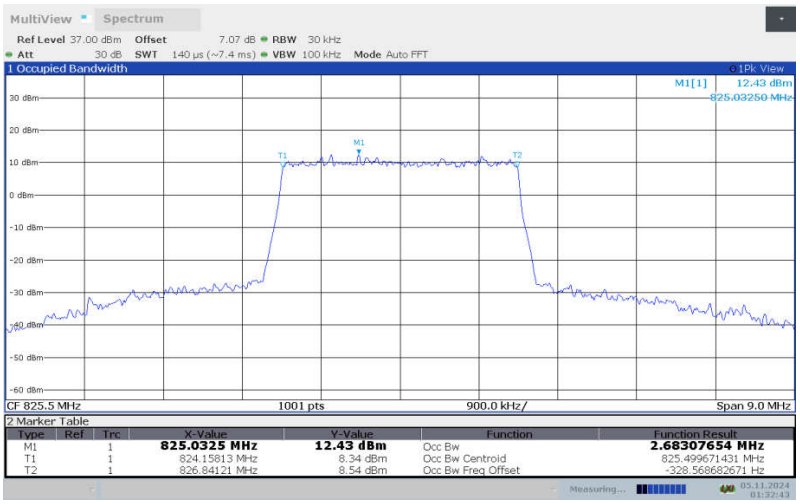
LTE band 5,3MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
825.5	2.688	2.683	2.686
836.5	2.687	2.681	2.685
847.5	2.685	2.679	2.689

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)

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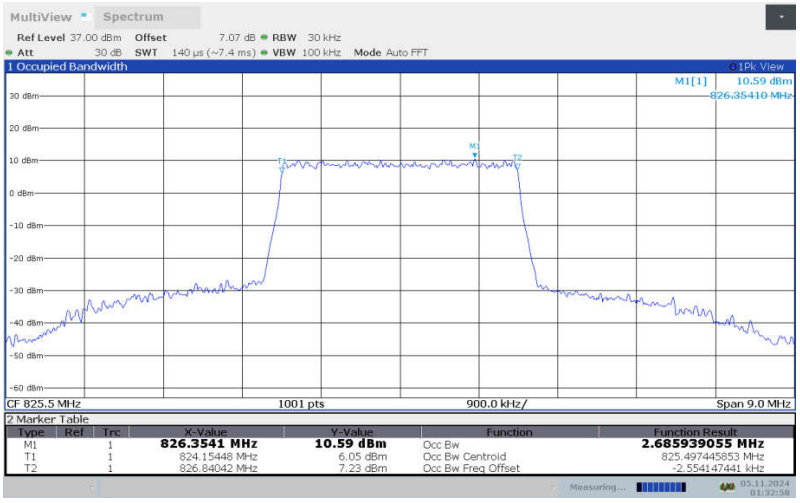
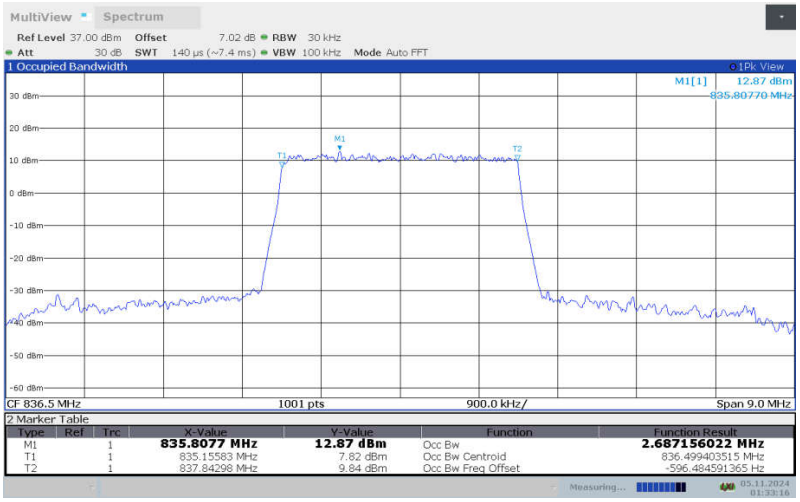


LTE band 5 , 3MHz Bandwidth, MID, QPSK (99% BW)



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

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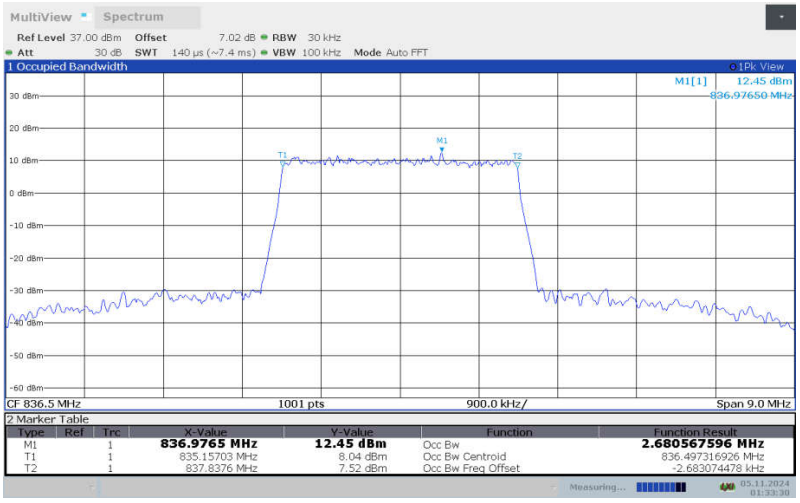
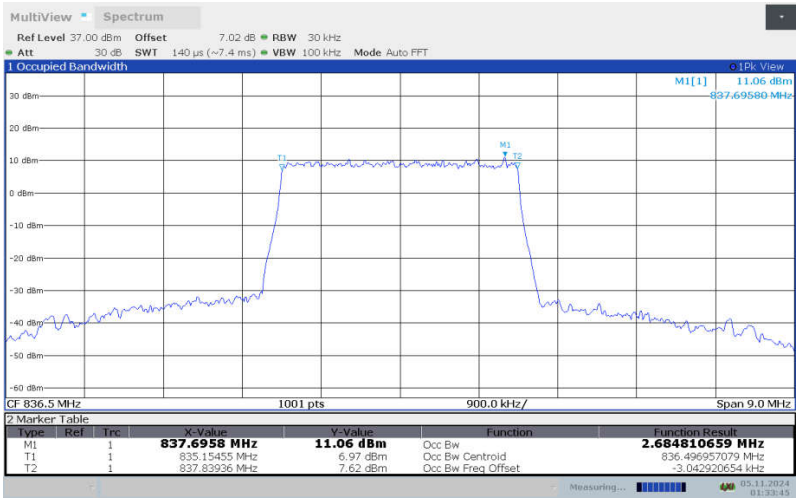


LTE band 5 , 3MHz Bandwidth, MID, 64QAM (99% BW)



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

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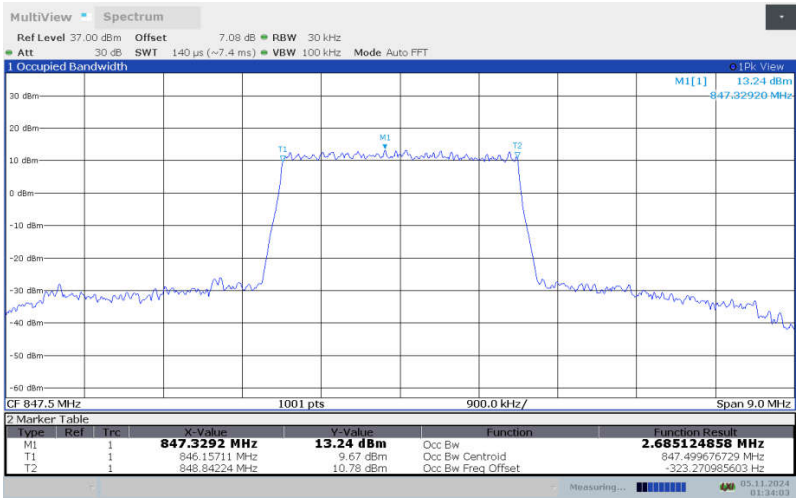
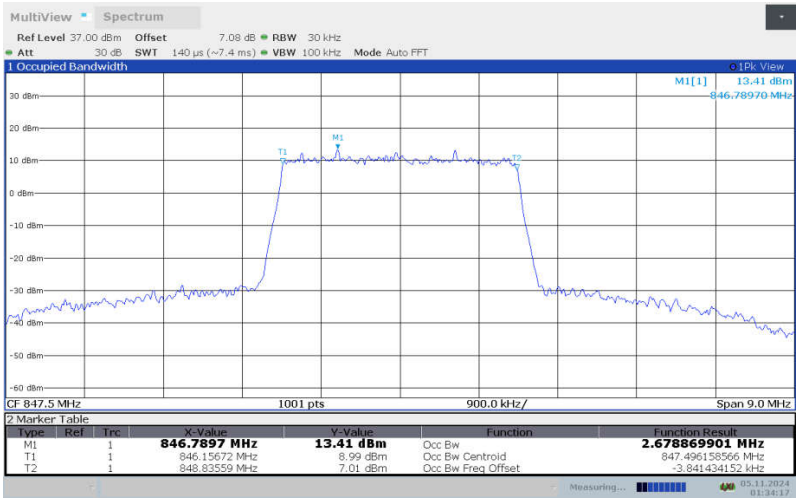


LTE band 5 , 3MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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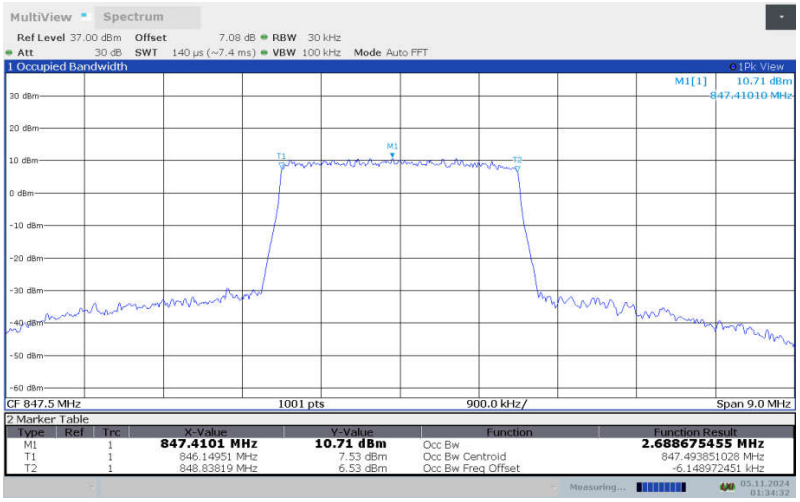

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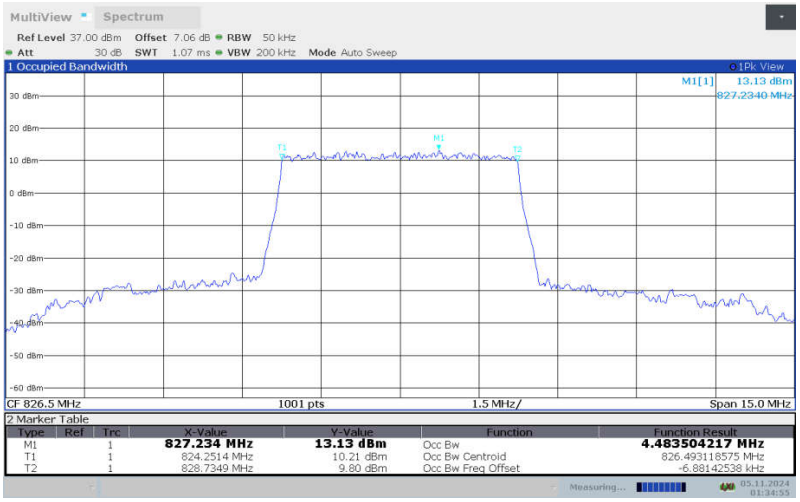
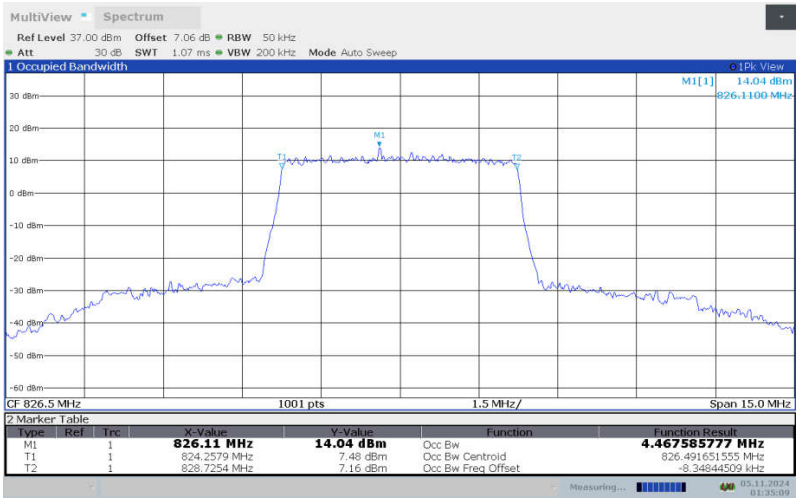
LTE band 5,5MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW)(MHz)		
	QPSK	16QAM	64QAM
826.5	4.484	4.468	4.467
836.5	4.476	4.478	4.469
846.5	4.459	4.465	4.458

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)

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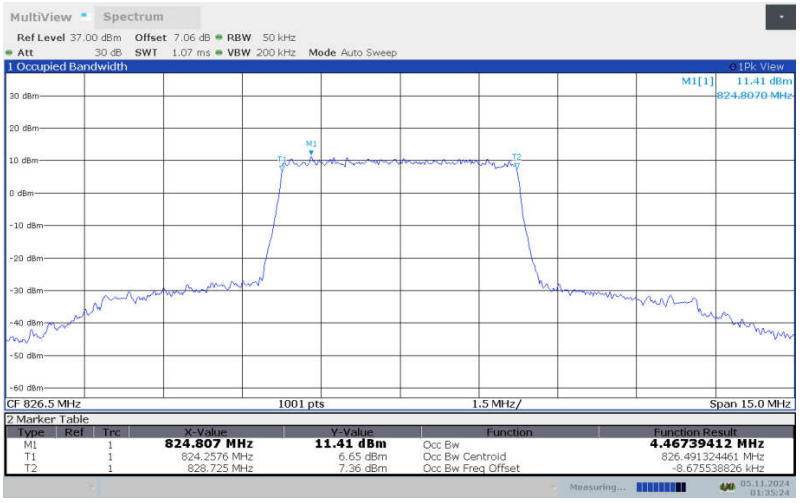
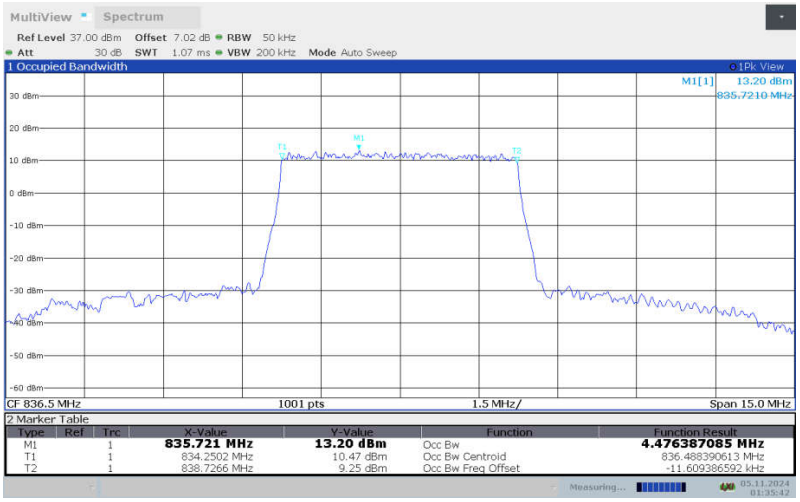


LTE band 5 , 5MHz Bandwidth, MID, QPSK (99% BW)



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

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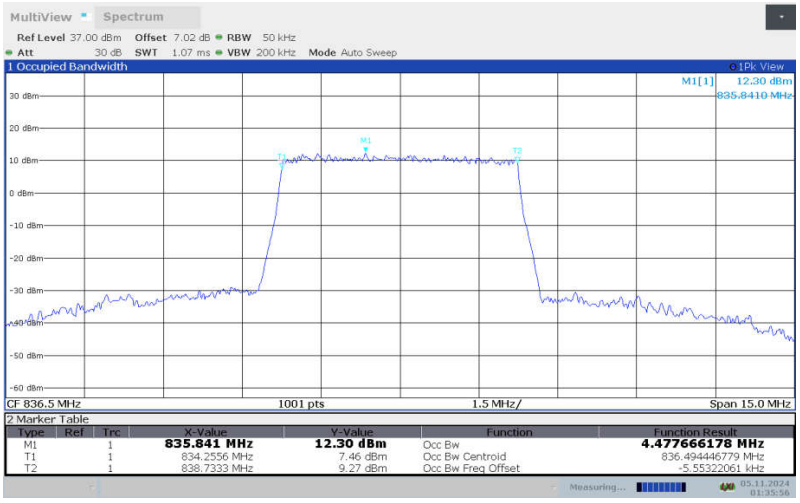
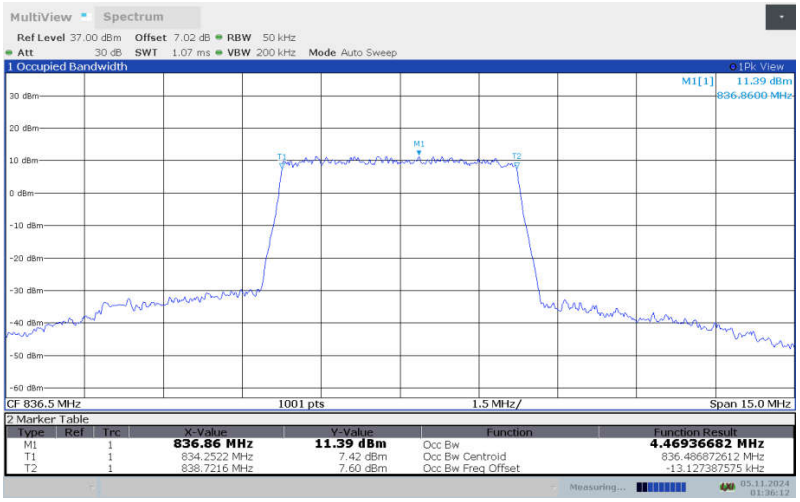


LTE band 5 , 5MHz Bandwidth, MID, 64QAM (99% BW)



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

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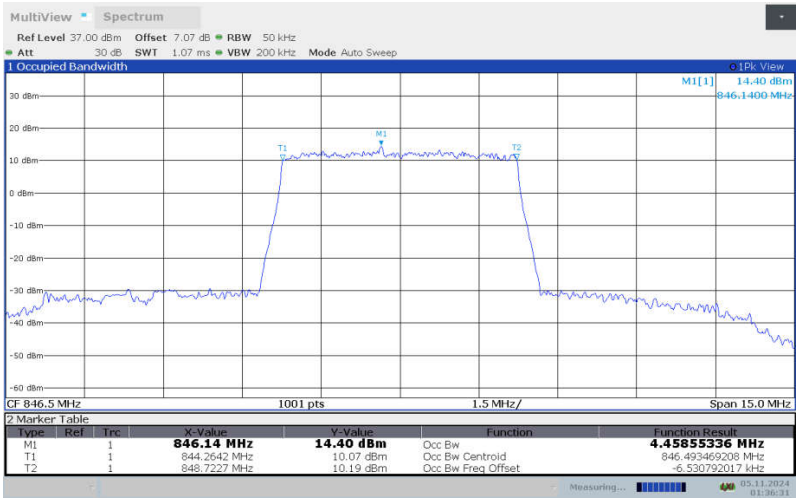
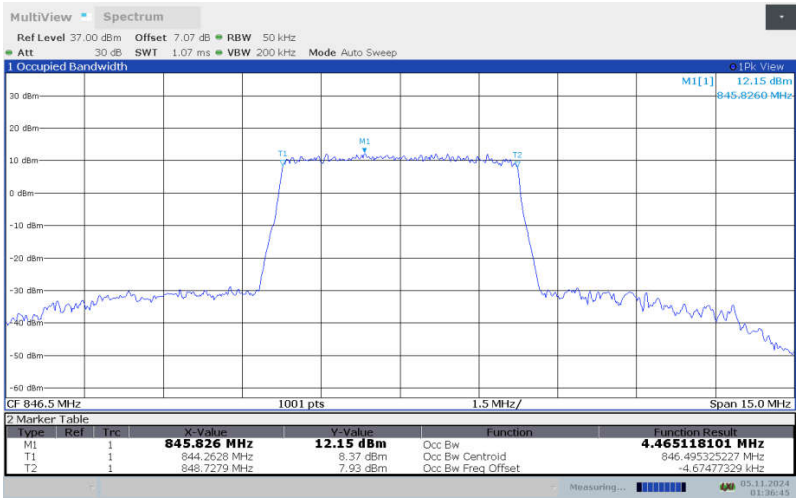


LTE band 5 , 5MHz Bandwidth, HIGH, 16QAM (99% BW)



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

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