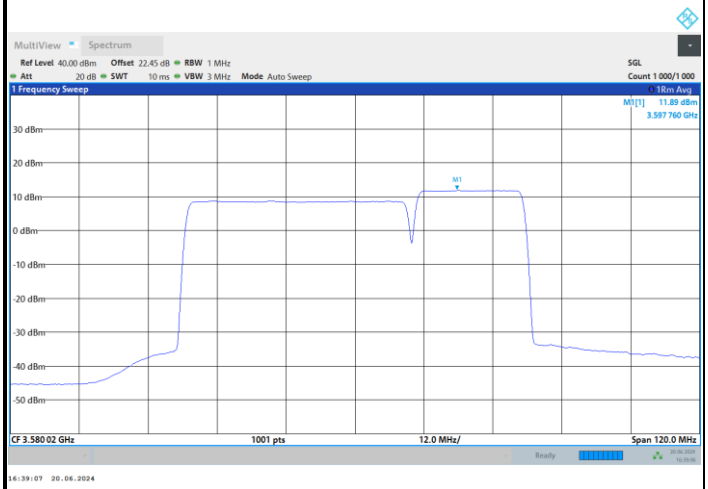
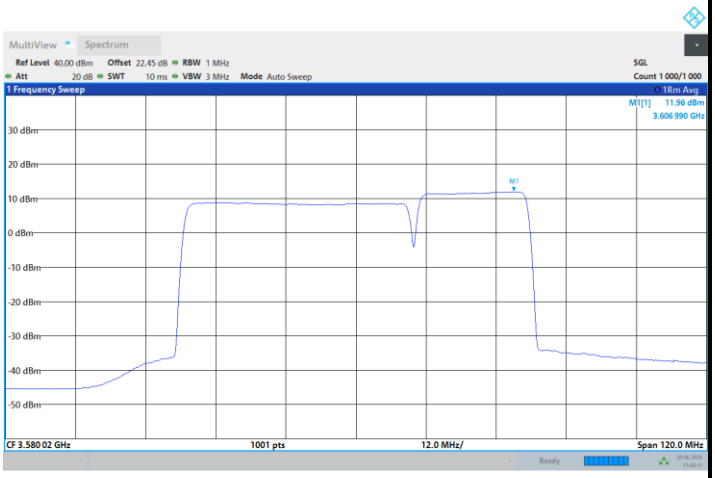
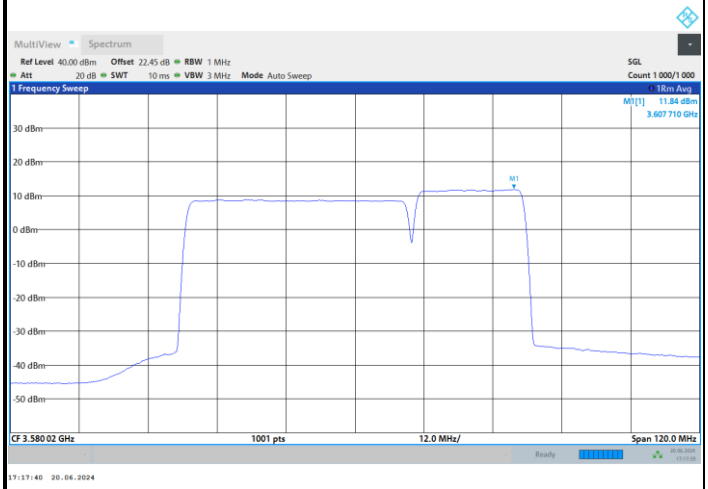
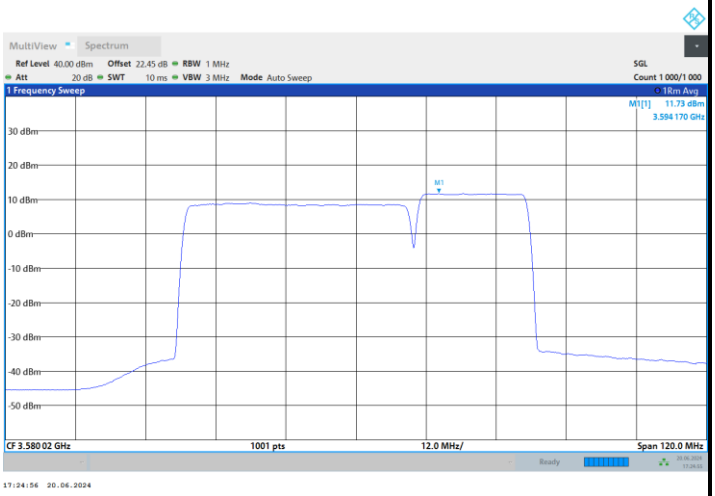
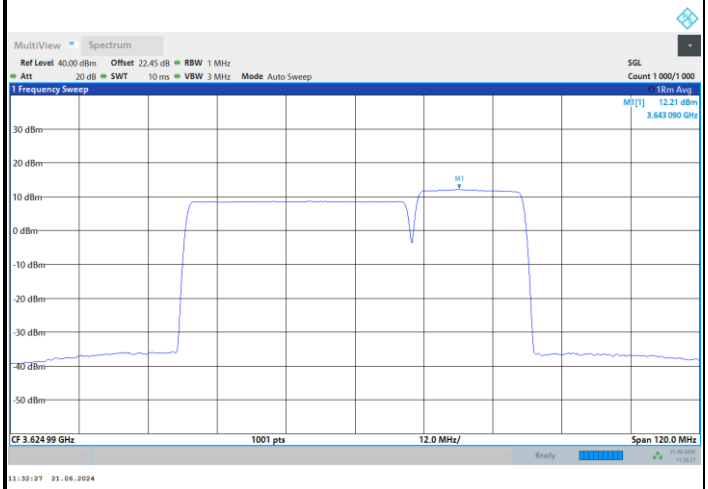
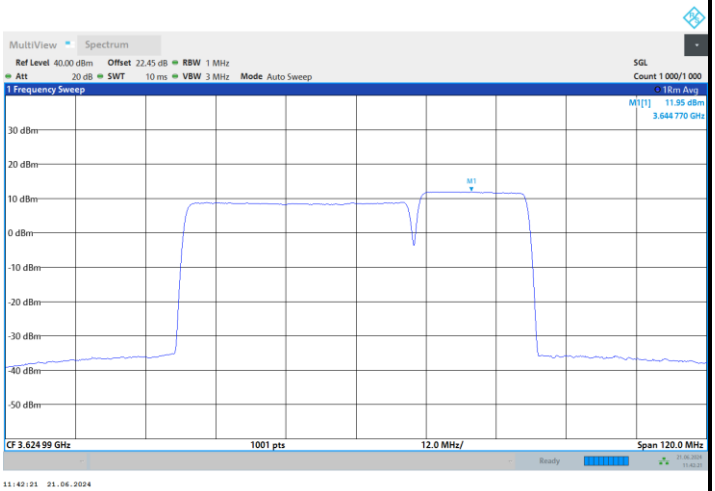
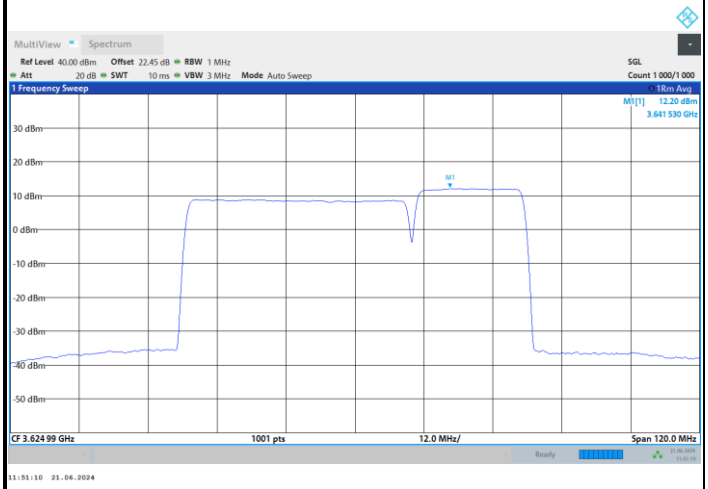
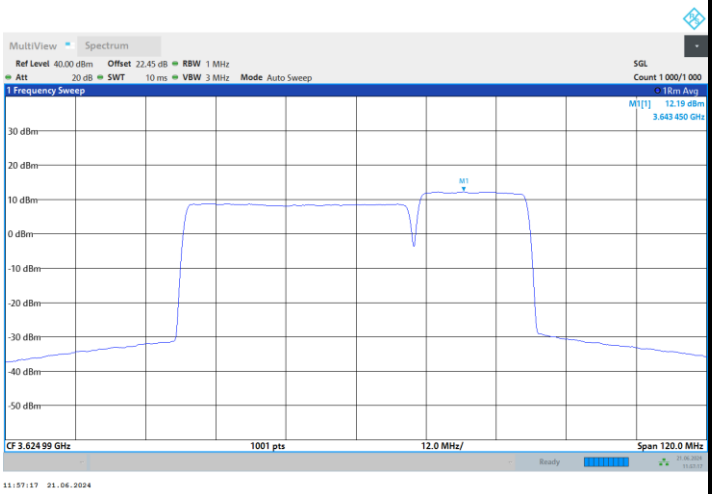
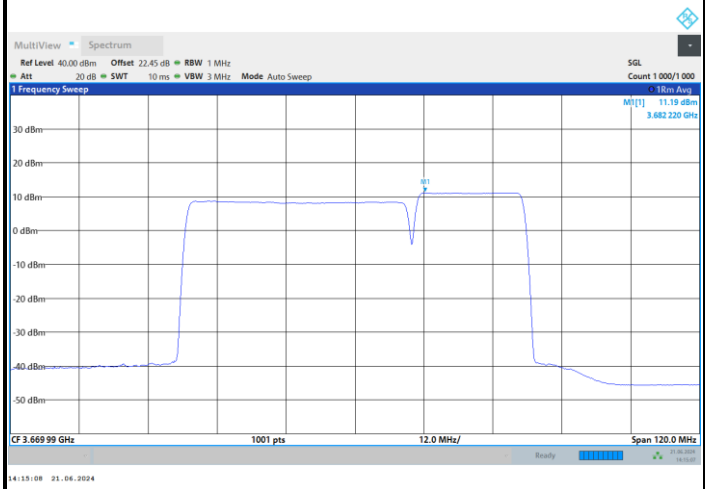
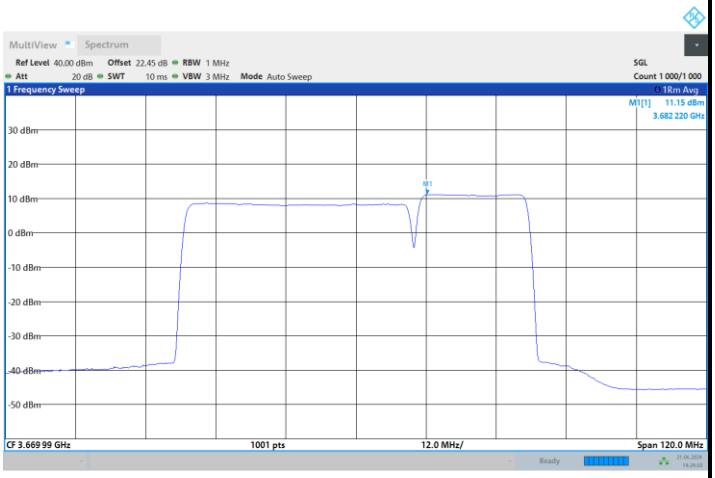
FR1 n48 / 40MHz+20MHz / Lowest Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 40MHz+20MHz / Middle Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 40MHz+20MHz / Highest Channel / PSD	
QPSK	16QAM
	
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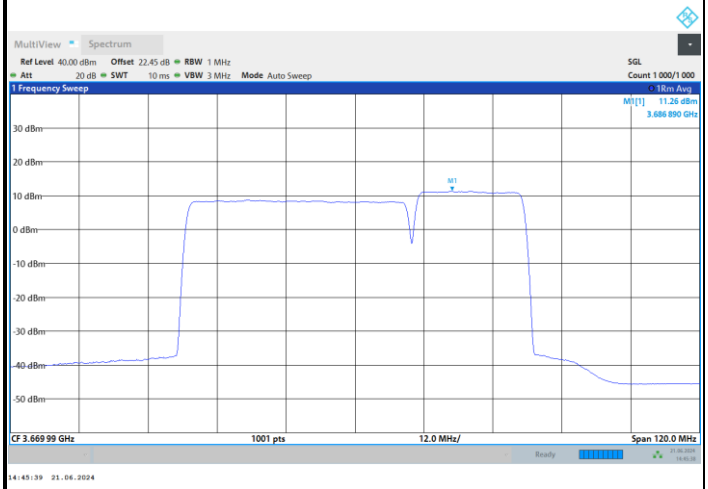	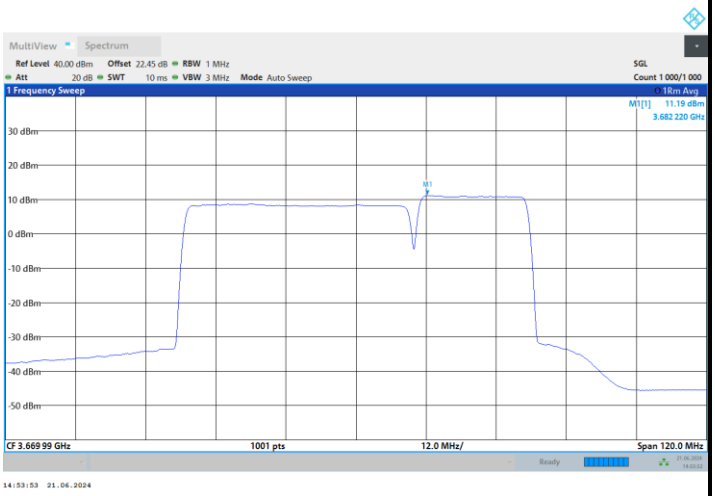

FR1 n48 / 40MHz+40MHz / Lowest Channel / PSD	
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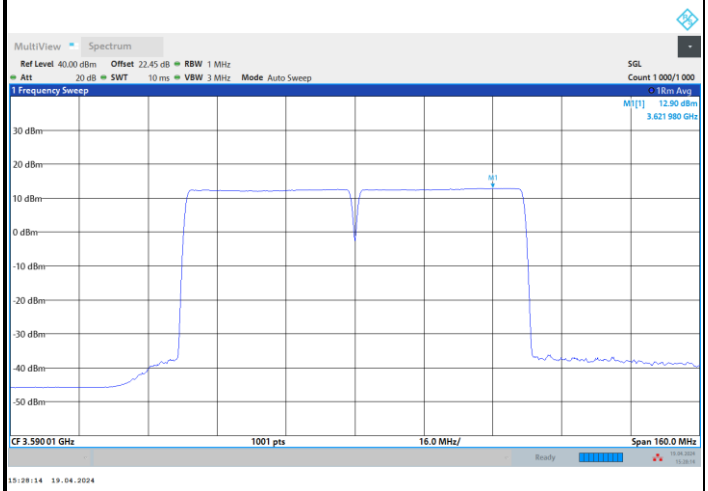
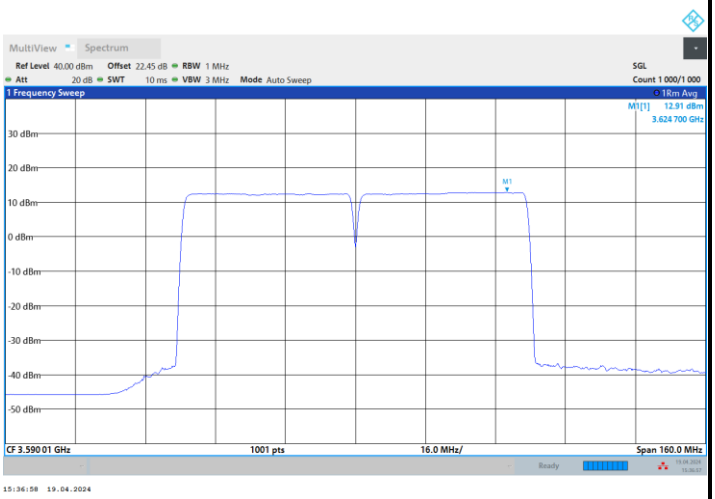
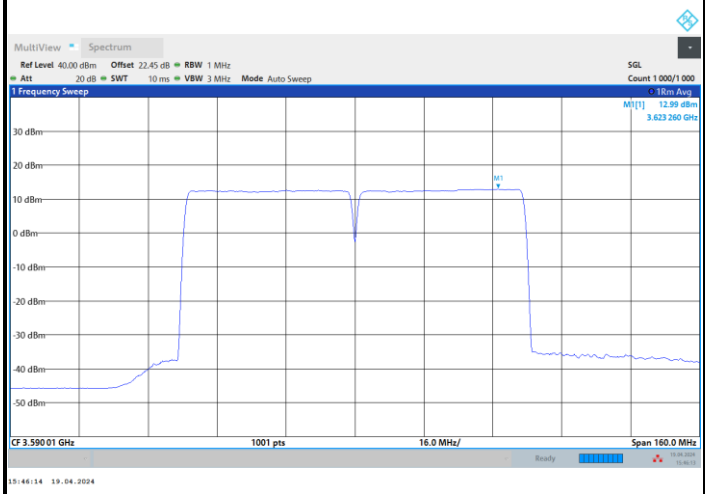
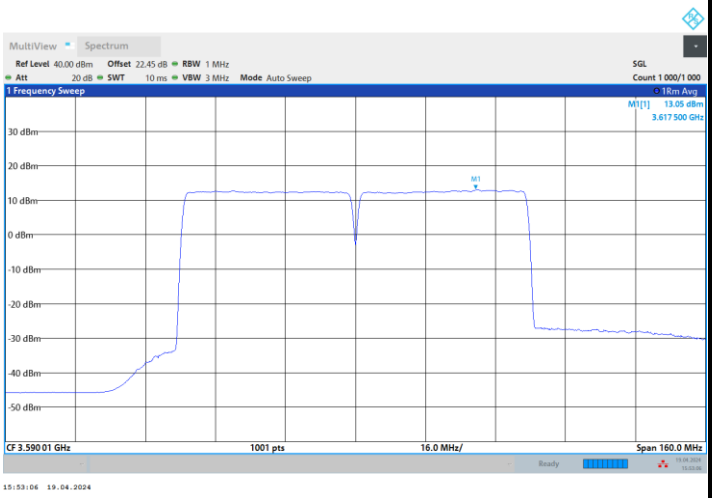
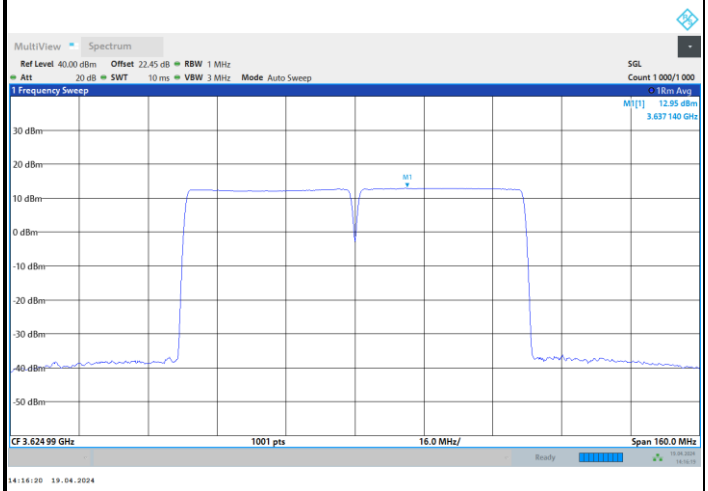
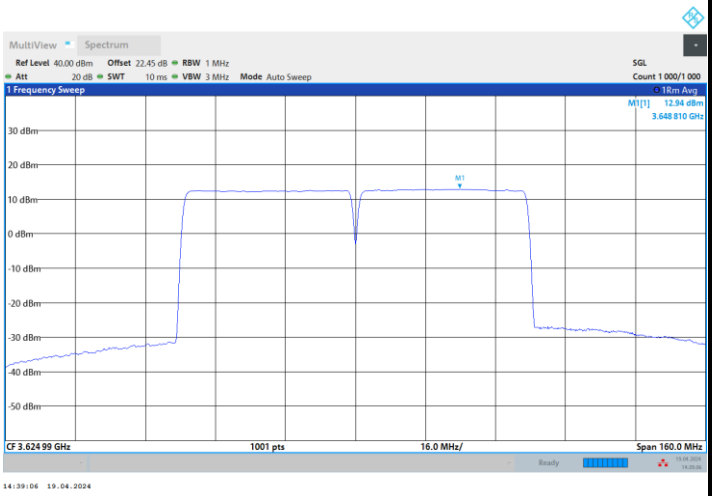
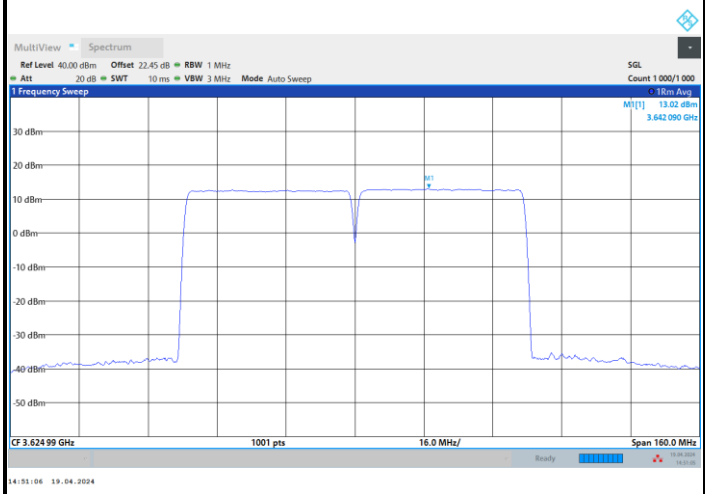
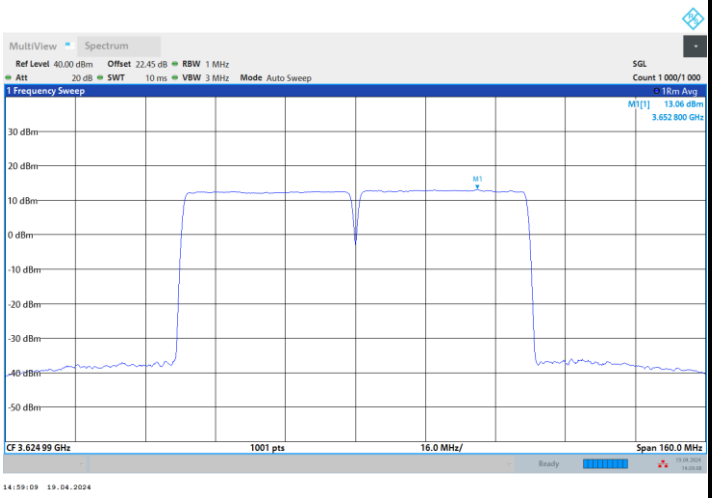
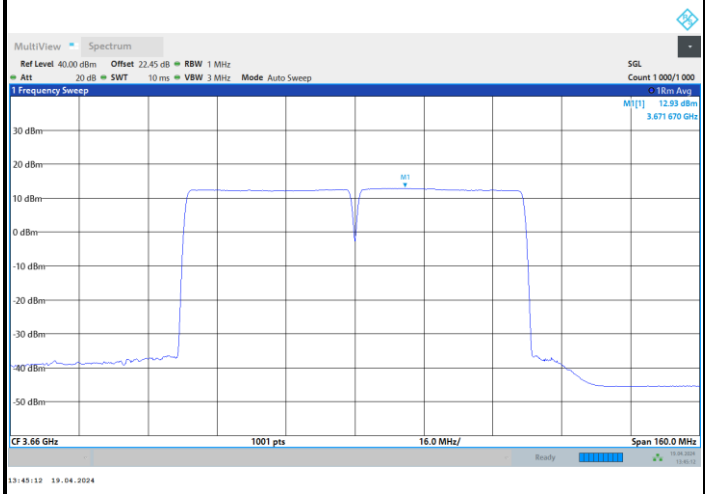
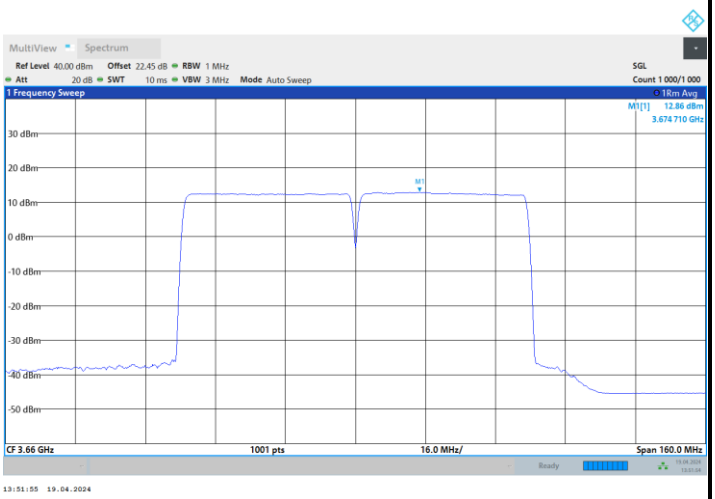
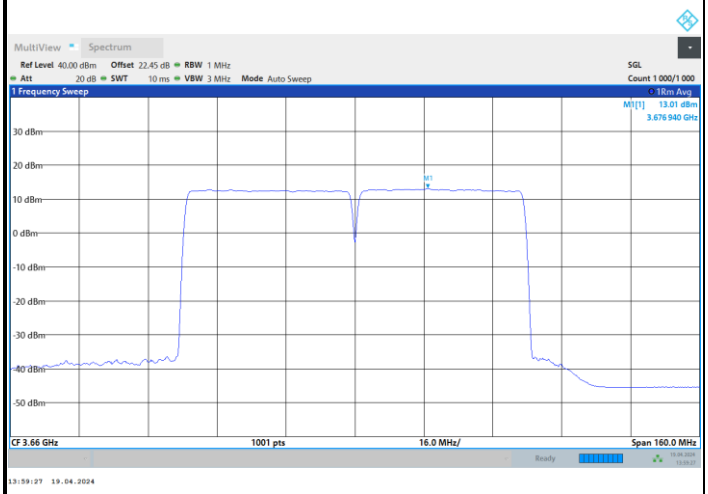
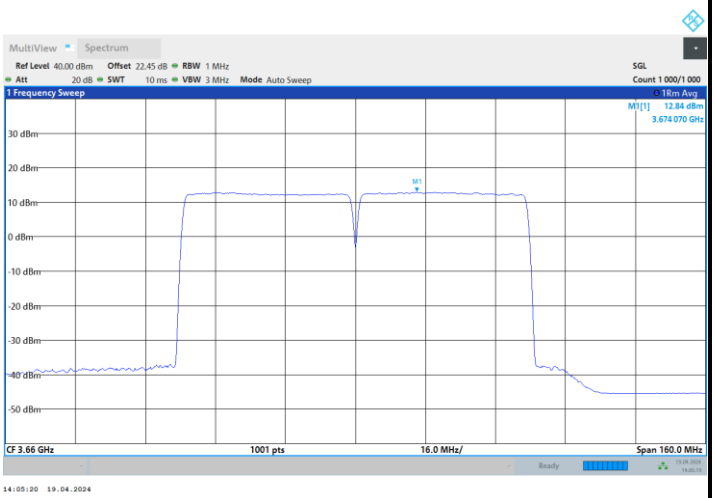
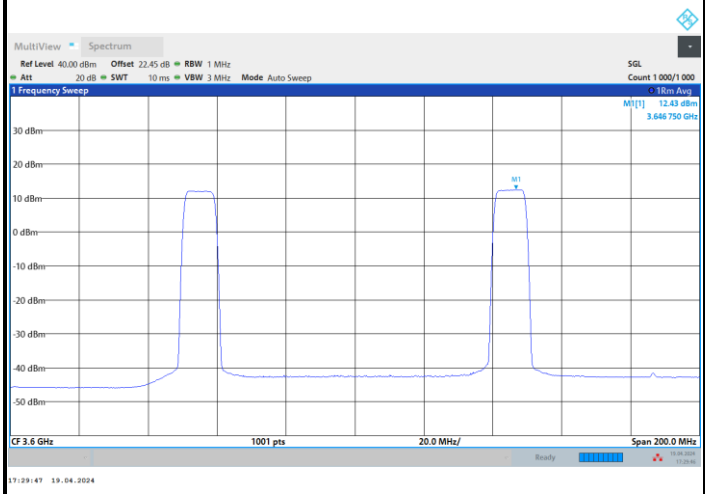
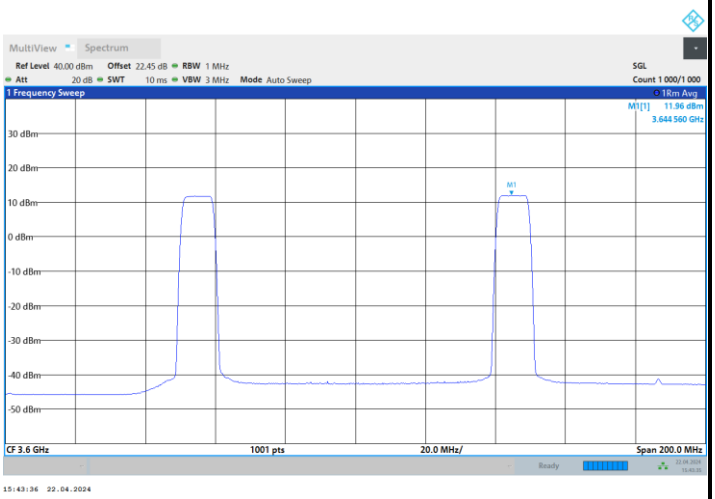
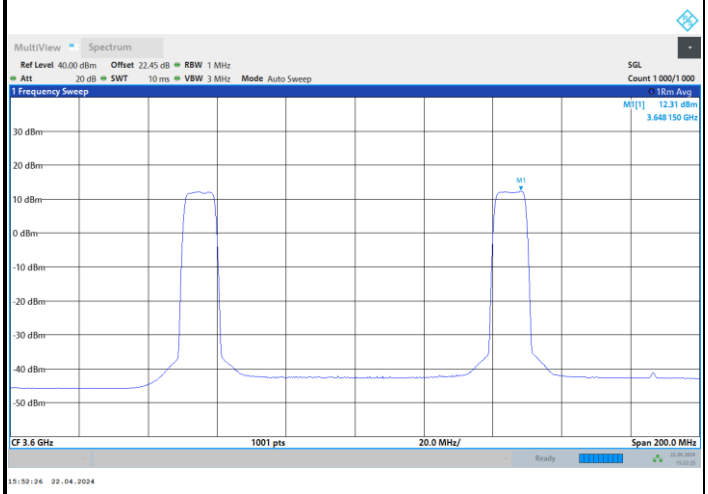
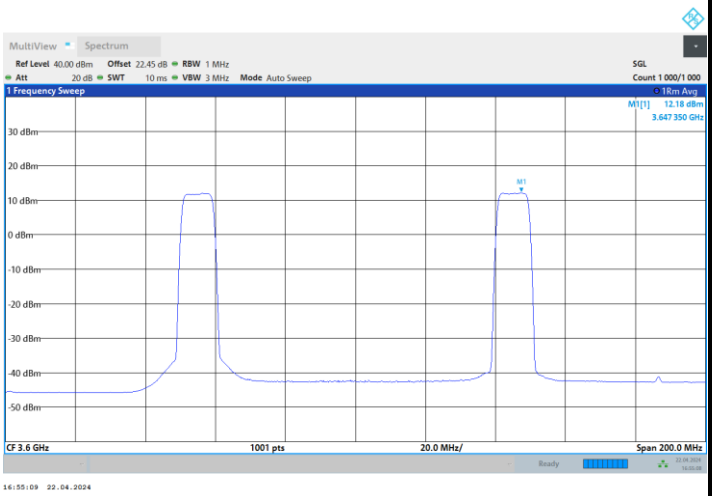
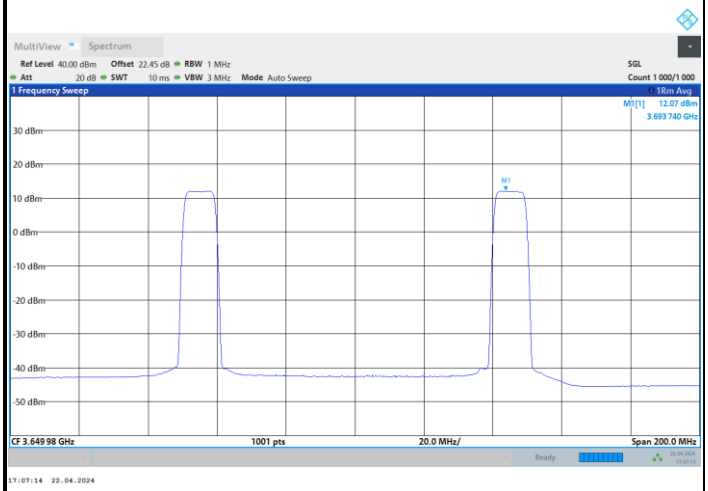
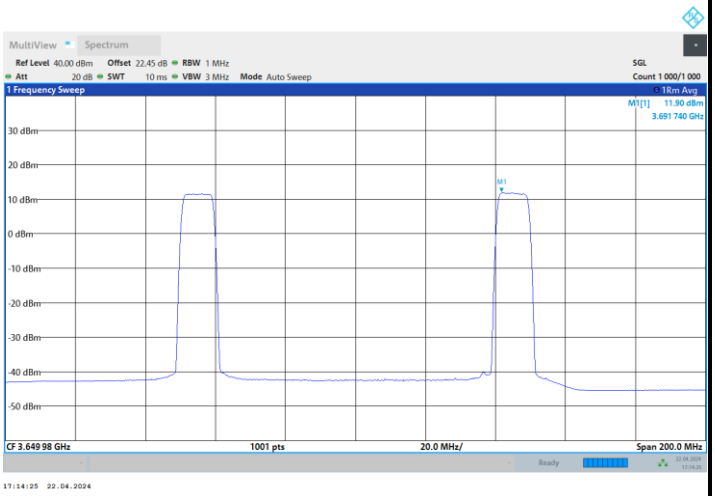
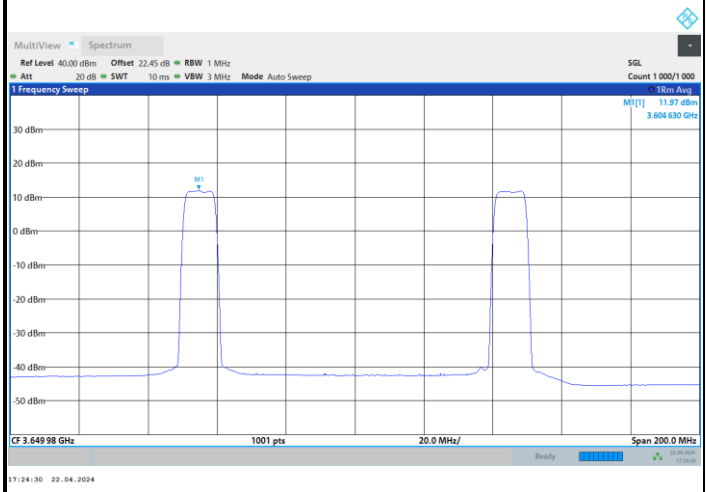
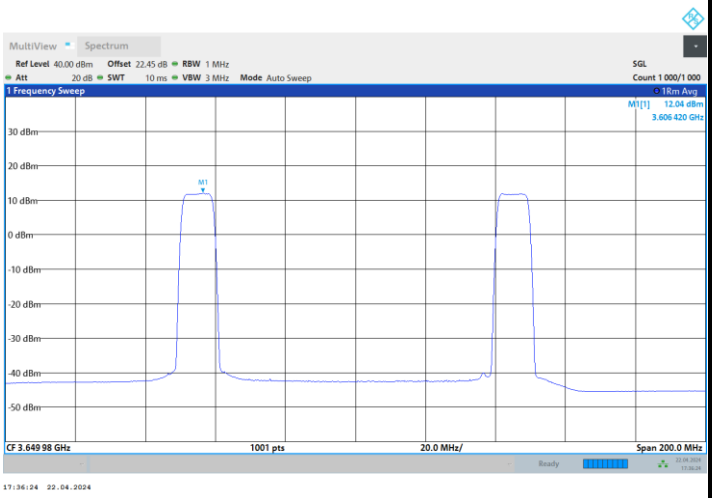
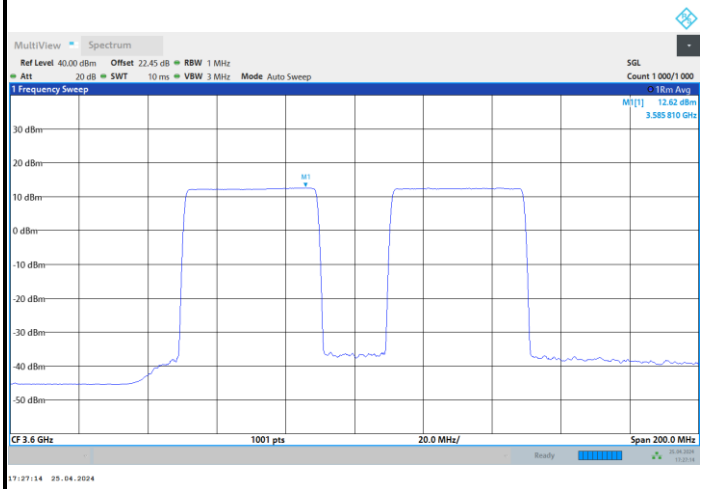
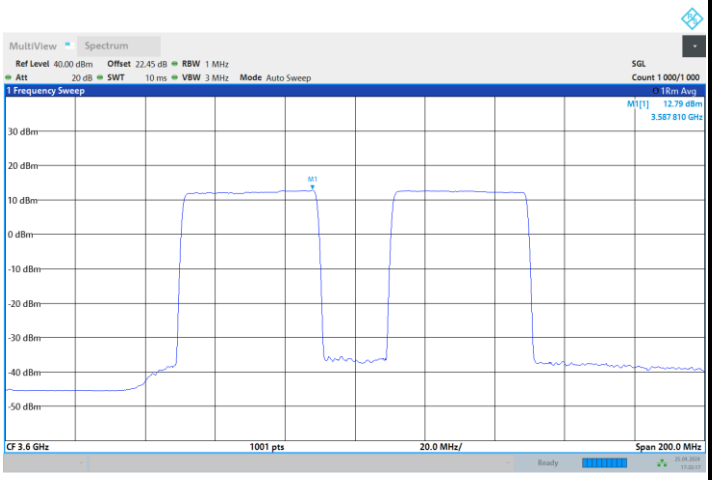
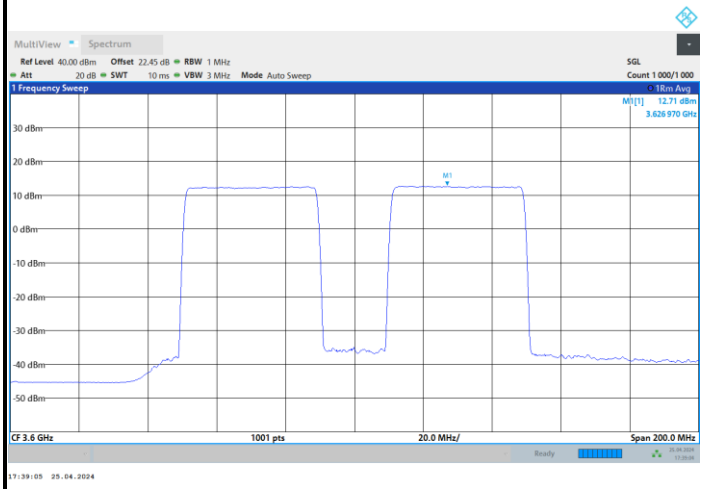
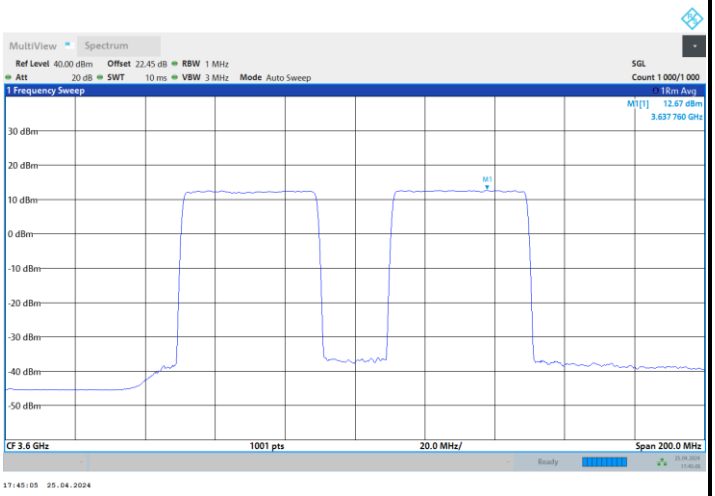
	
64QAM	256QAM
	

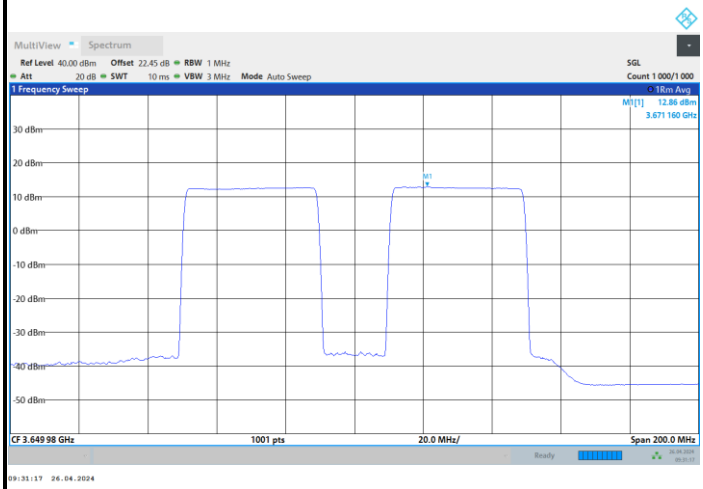
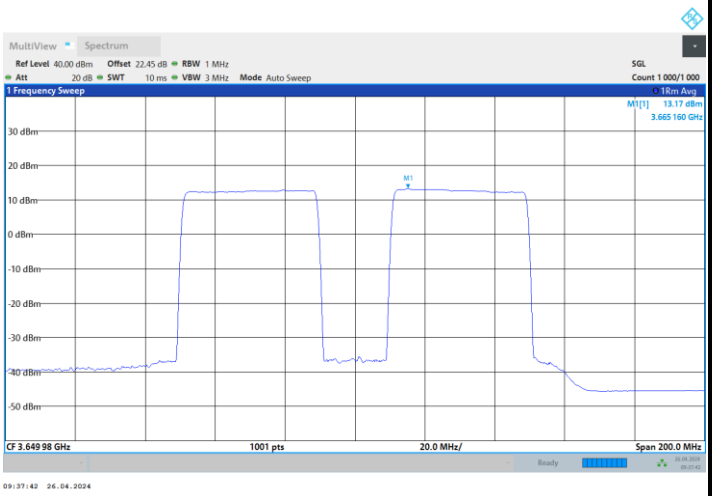
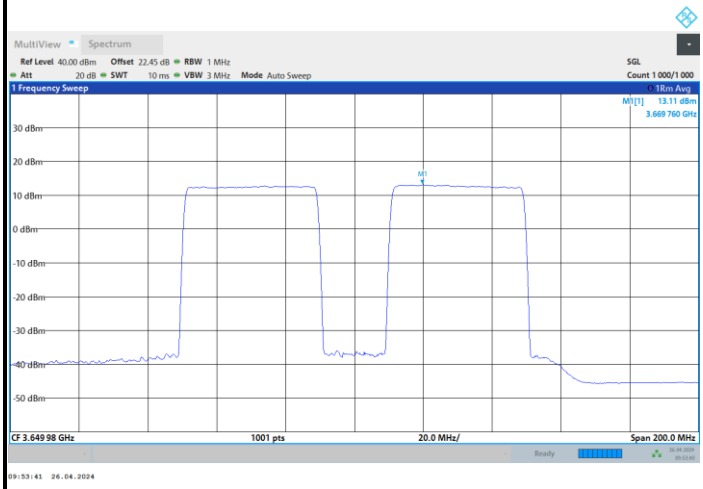
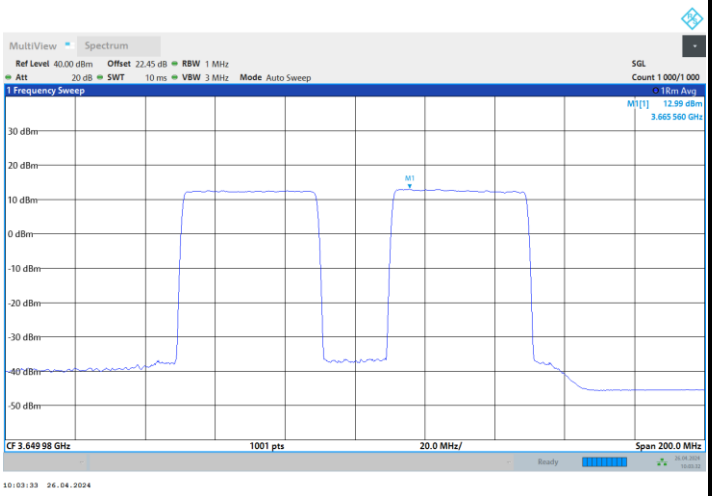
FR1 n48 / 40MHz+40MHz / Middle Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 40MHz+40MHz / Highest Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 10MHz+10MHz (Non Contiguous) / Lowest Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 10MHz+10MHz (Non Contiguous) / Highest Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 40MHz+40MHz (Non Contiguous) / Lowest Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

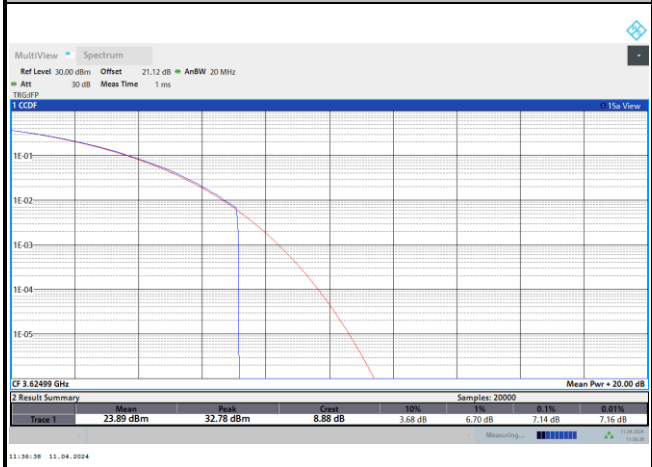
FR1 n48 / 40MHz+40MHz (Non Contiguous) / Highest Channel / PSD	
QPSK	16QAM
	
64QAM	256QAM
	

Peak-to-Average Ratio

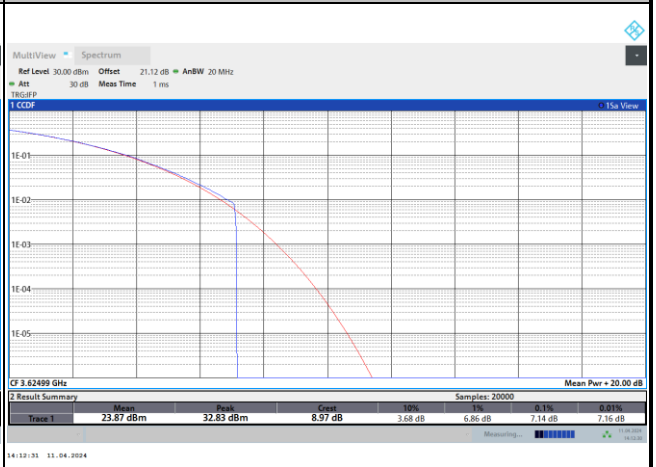
Mode	FR1 n48 / 20MHz / PAR (dB)				Limit: 13dB
Mod.	QPSK	16QAM	64QAM	256QAM	Result
Middle CH	7.14	7.14	7.04	7.14	PASS

FR1 n48 / 20MHz / Middle Channel / PAR

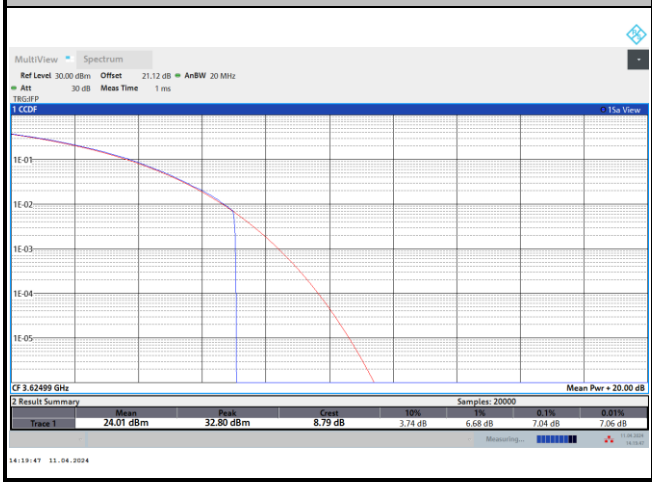
QPSK



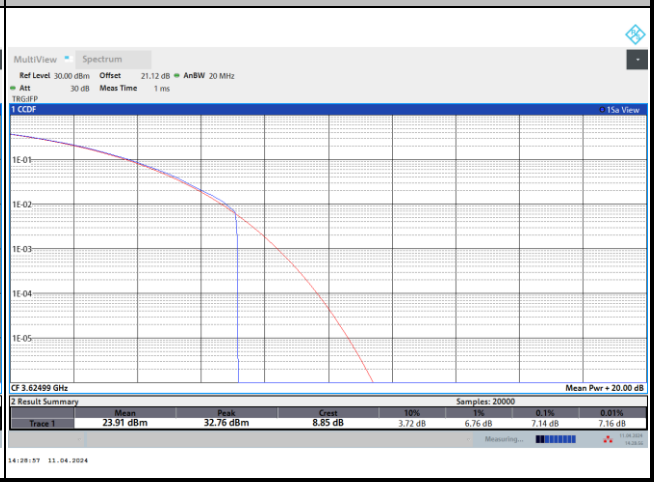
16QAM



64QAM



256QAM

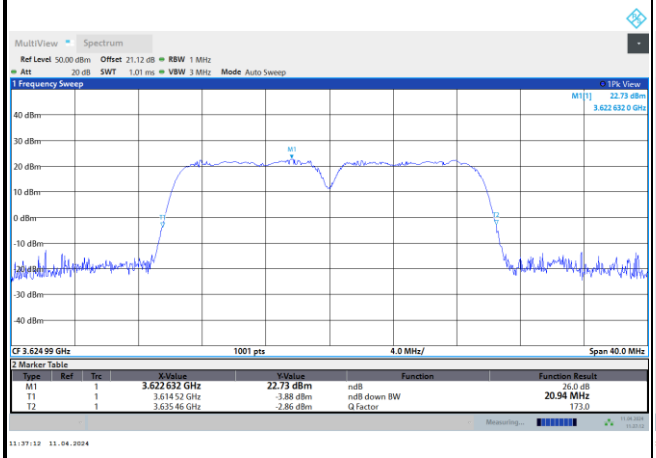


26dB Bandwidth

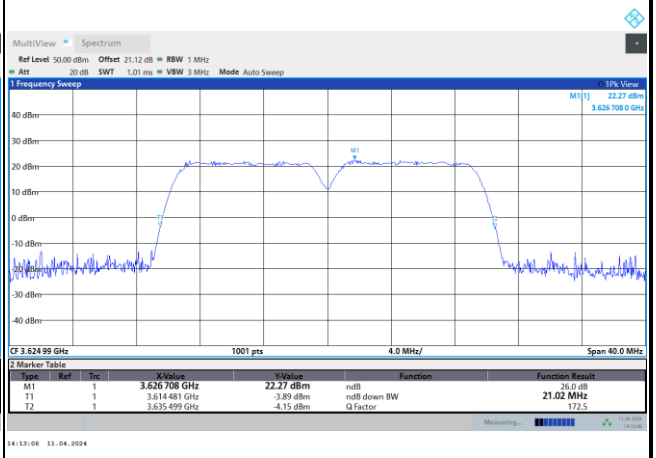
Mode	FR1 n48 : 26dB BW(MHz)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	20.94	21.02	30.75	30.75	50.65	50.55	30.87	30.69
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	20.94	20.98	30.81	30.81	50.75	50.65	30.75	30.69
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	40.76	40.92	60.78	60.66	50.65	50.55	60.54	60.54
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	40.68	40.84	60.66	60.78	50.55	50.65	60.42	60.66
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Middle CH	80.56	80.56						
Mod.	64QAM	256QAM						
Middle CH	80.72	80.72						

FR1 n48 / 10MHz+10MHz / Middle Channel / 26dB BW

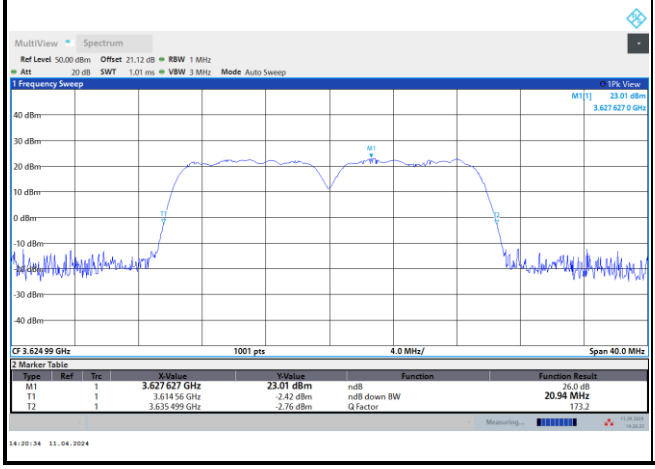
QPSK



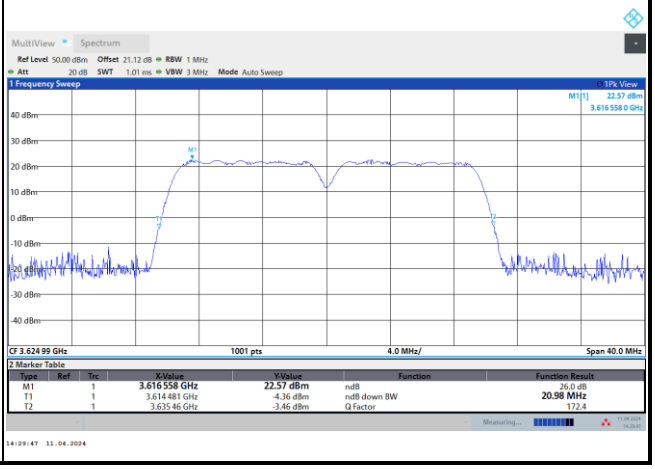
16QAM



64QAM

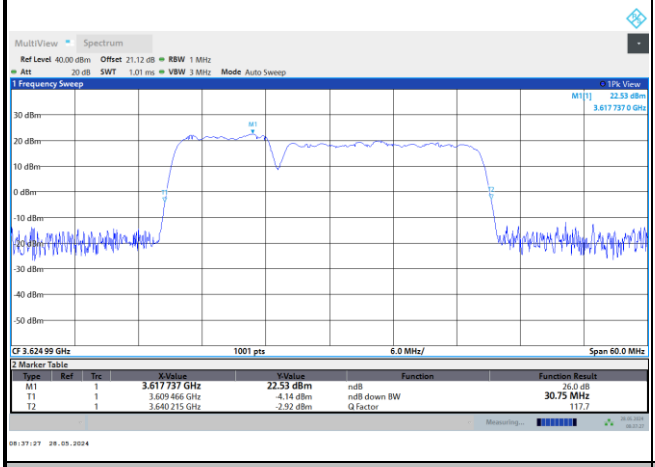


256QAM

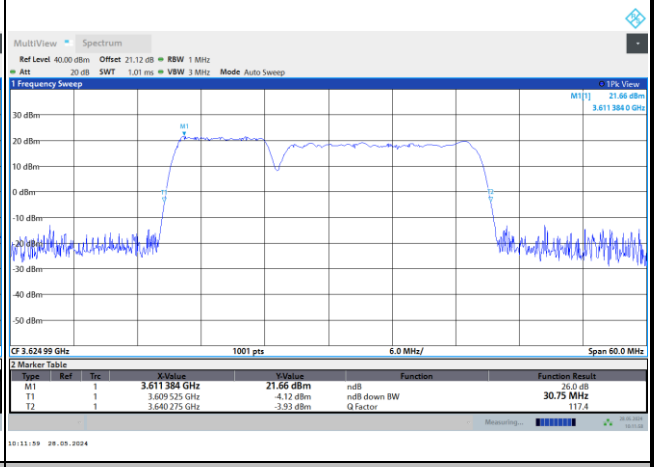


FR1 n48 / 10MHz+20MHz / Middle Channel / 26dB BW

QPSK



16QAM



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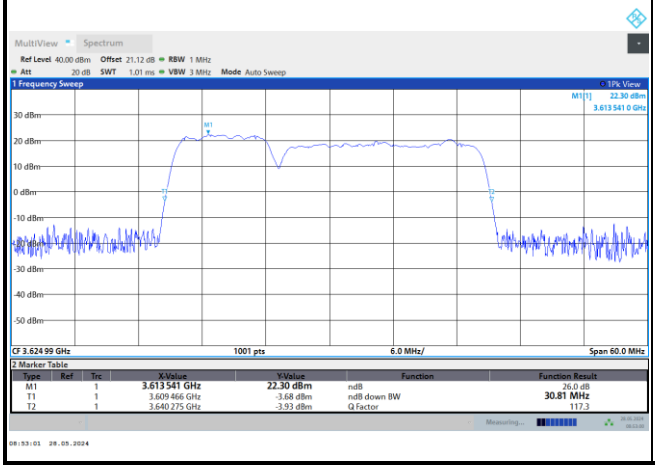
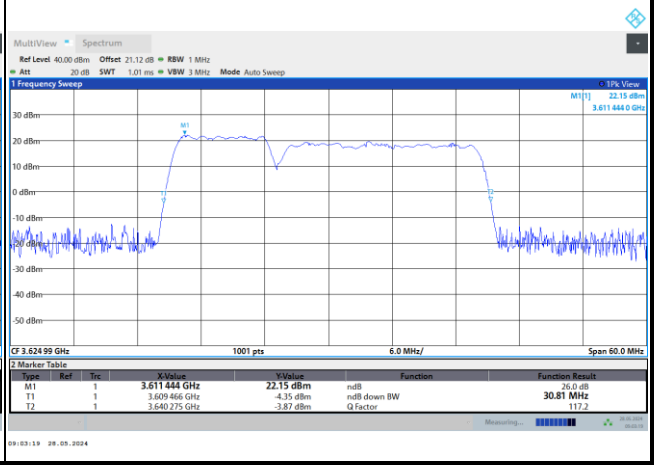


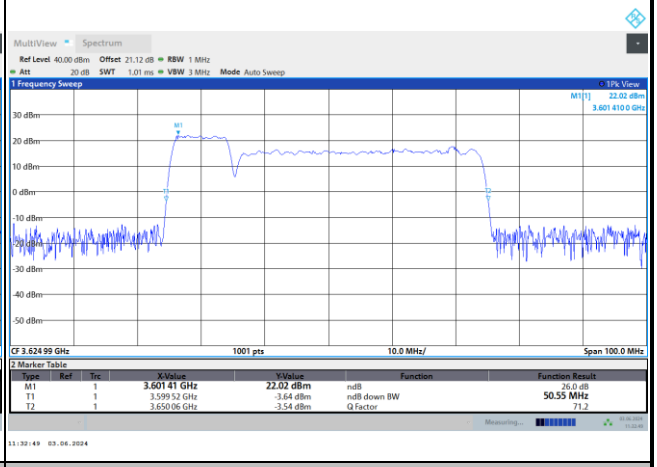
256QAM



FR1 n48 / 10MHz+40MHz / Middle Channel / 26dB BW

QPSK

16QAM



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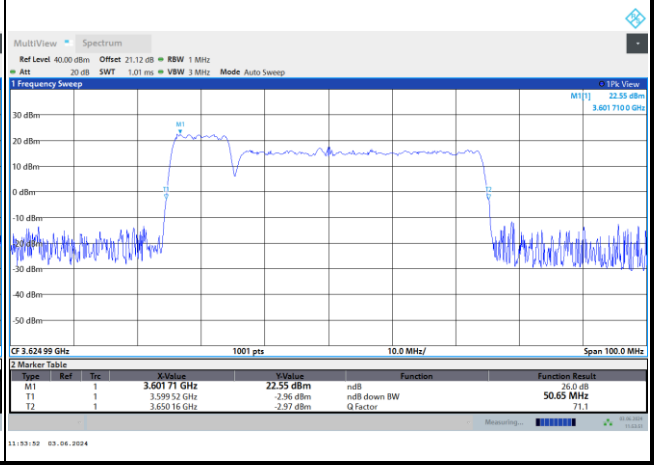
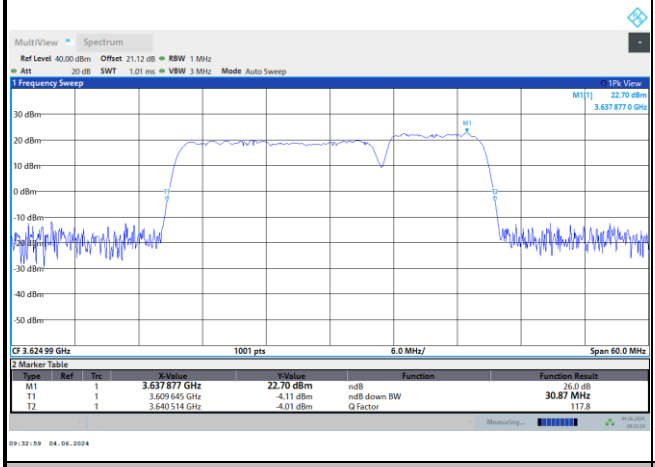


FR1 n48 / 20MHz+10MHz / Middle Channel / 26dB BW

QPSK



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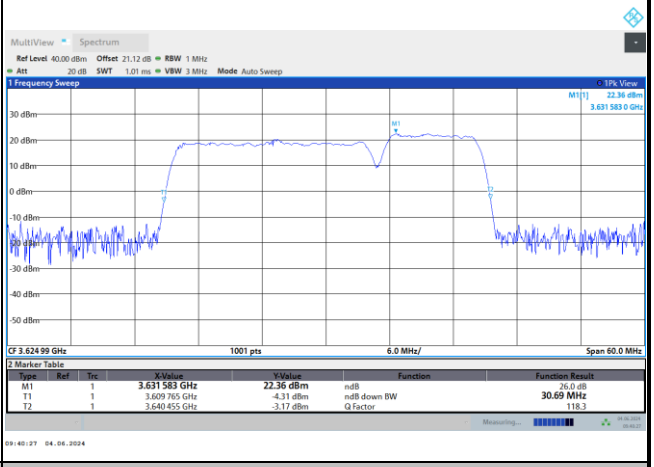
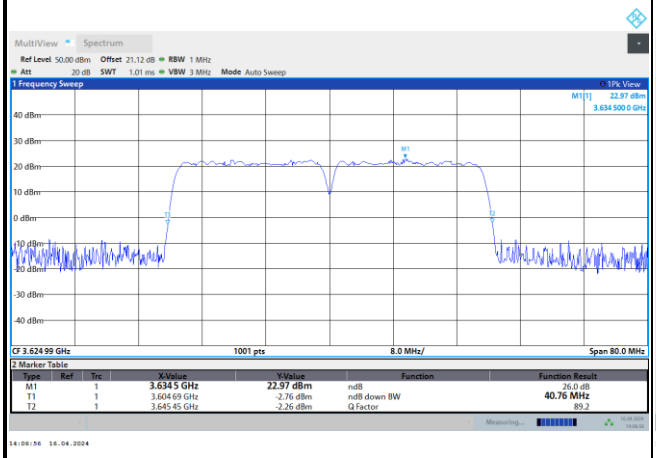


64QAM

256QAM

FR1 n48 / 20MHz+20MHz / Middle Channel / 26dB BW

QPSK



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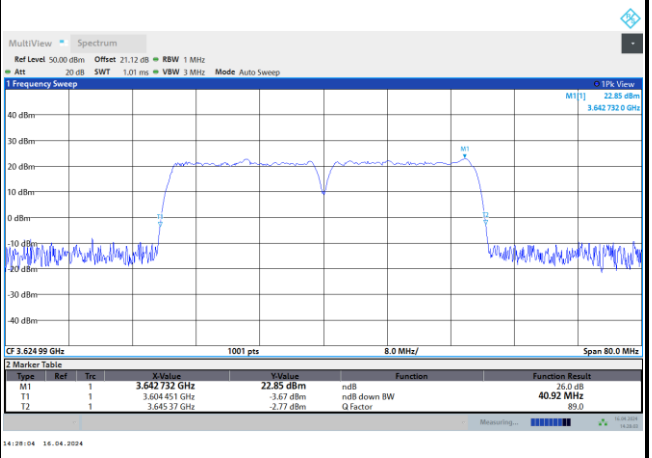

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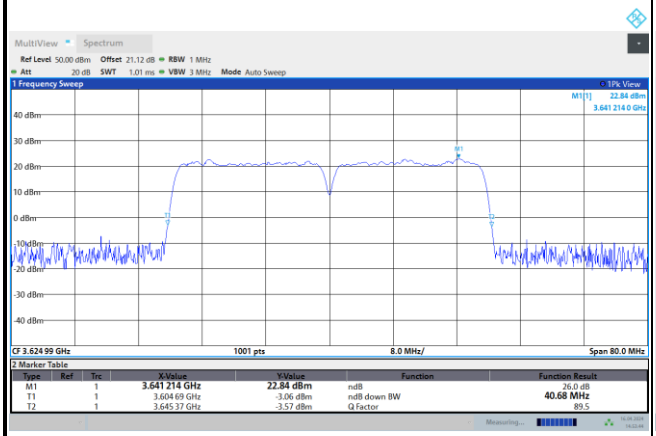

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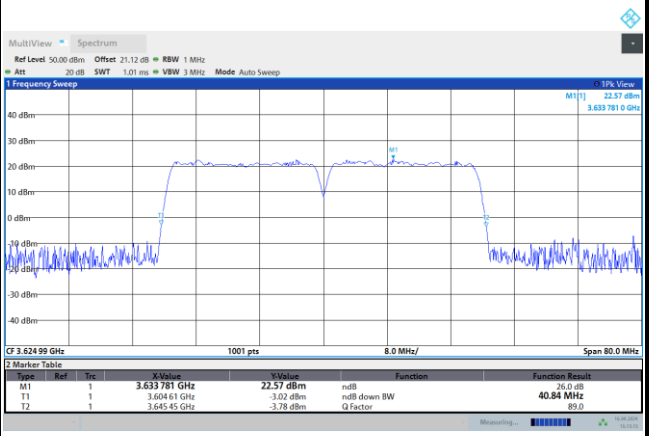
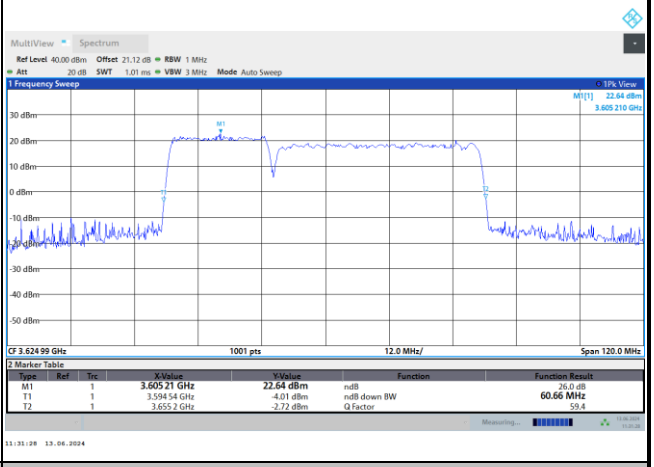


FR1 n48 / 20MHz+40MHz / Middle Channel / 26dB BW

QPSK

16QAM



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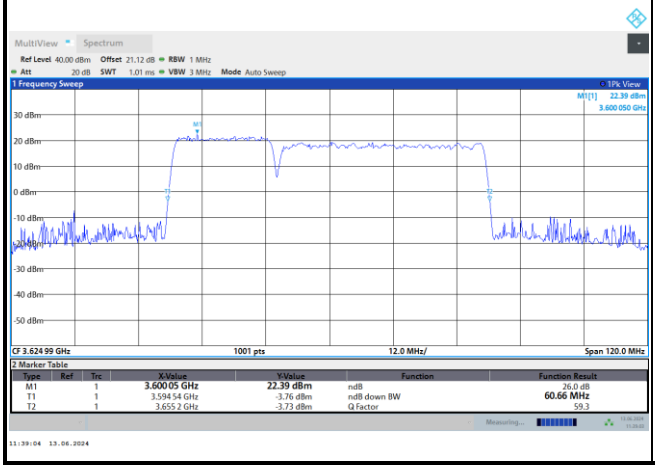

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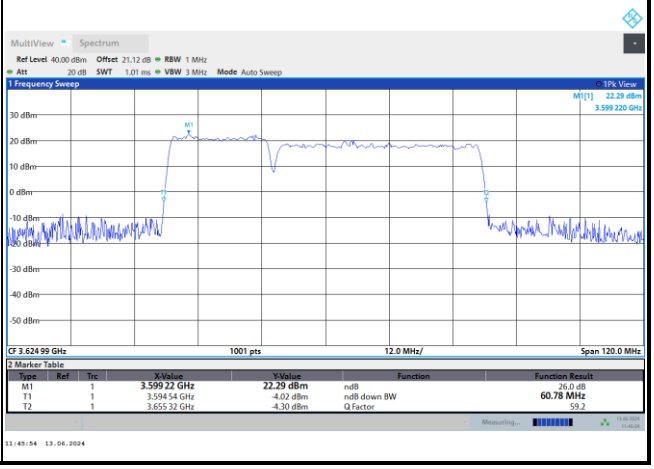
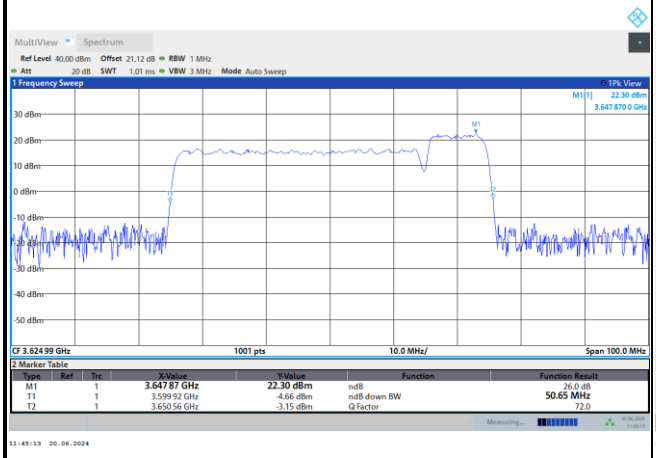


FR1 n48 / 40MHz+10MHz / Middle Channel / 26dB BW

QPSK



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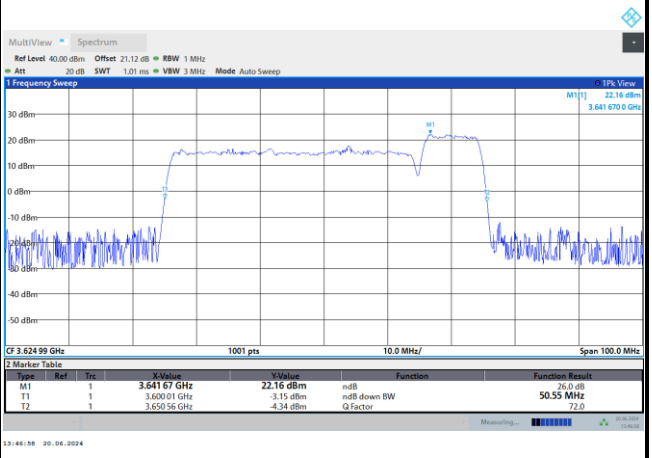

64QAM

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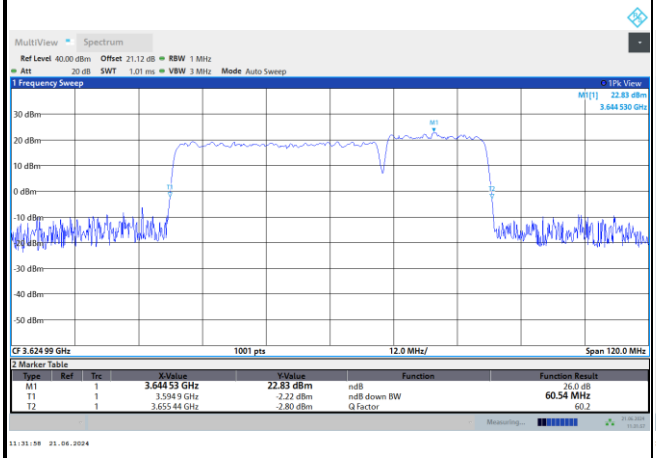
FR1 n48 / 40MHz+20MHz / Middle Channel / 26dB BW

QPSK



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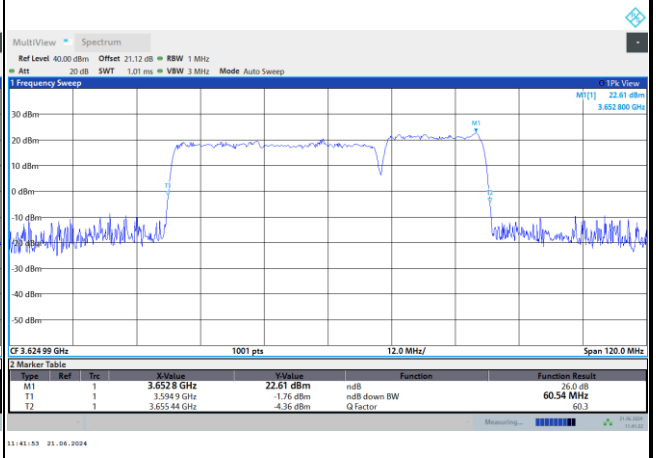

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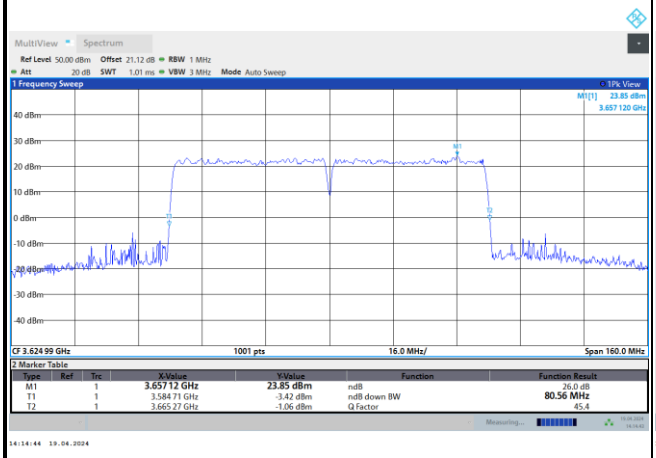
256QAM

FR1 n48 / 40MHz+40MHz / Middle Channel / 26dB BW

QPSK



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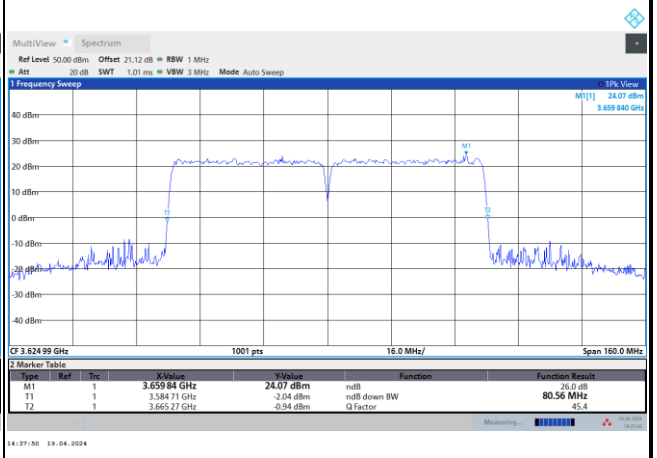


64QAM

256QAM

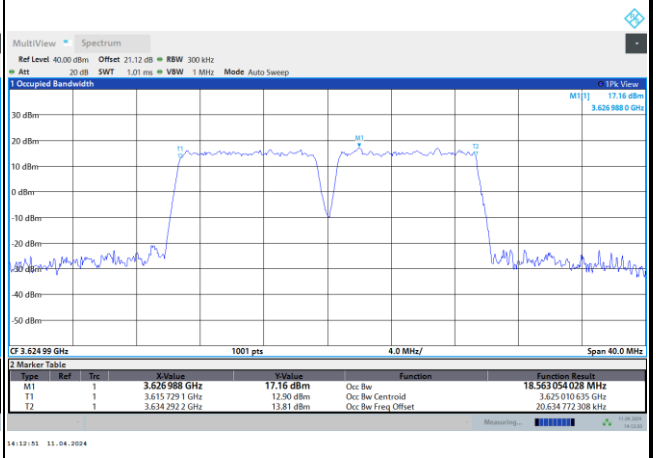
Occupied Bandwidth

Mode	FR1 n48 : 99%OBW (MHz)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.53	18.56	28.61	28.57	48.30	48.22	28.63	28.56
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.55	18.51	28.62	28.64	48.42	48.29	28.62	28.68
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	38.27	38.23	57.89	57.80	48.29	48.23	57.93	57.82
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	38.28	38.37	58.02	57.98	48.21	48.40	57.86	57.98
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Middle CH	77.43	77.38						
Mod.	64QAM	256QAM						
Middle CH	77.67	77.65						

FR1 n48 / 10MHz+10MHz / Middle Channel / 99%OBW

QPSK

16QAM



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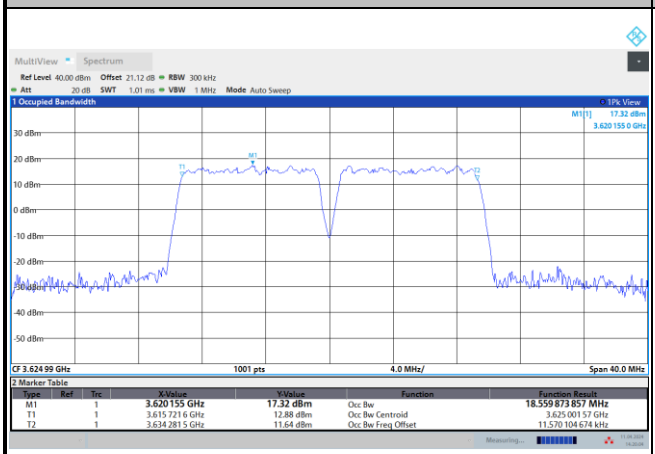

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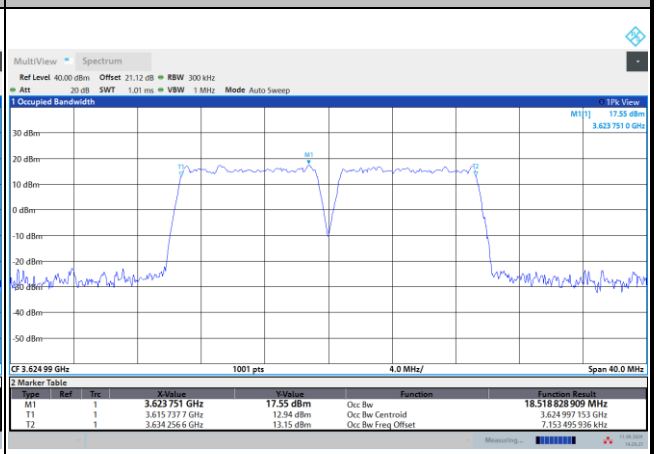
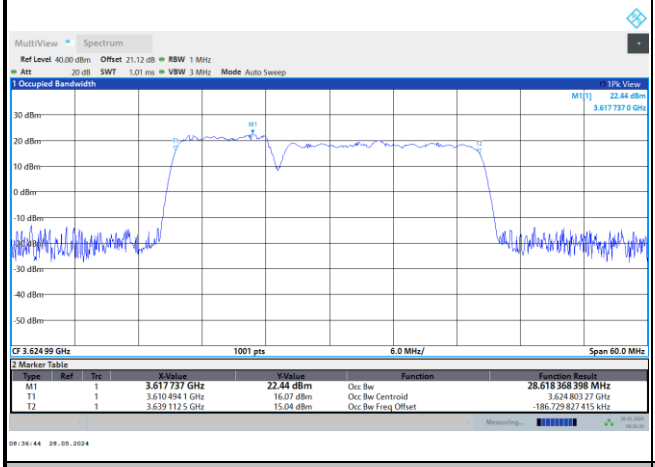


FR1 n48 / 10MHz+20MHz / Middle Channel / 99%OBW

QPSK



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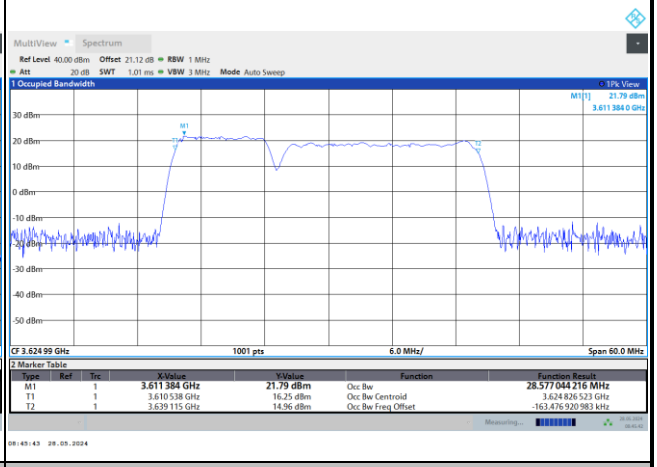

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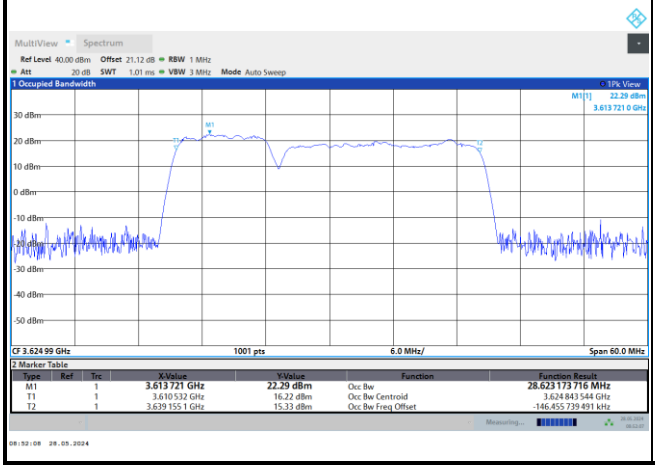

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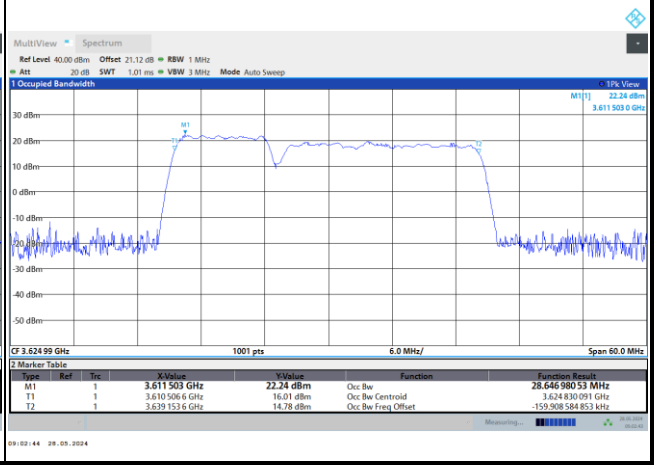
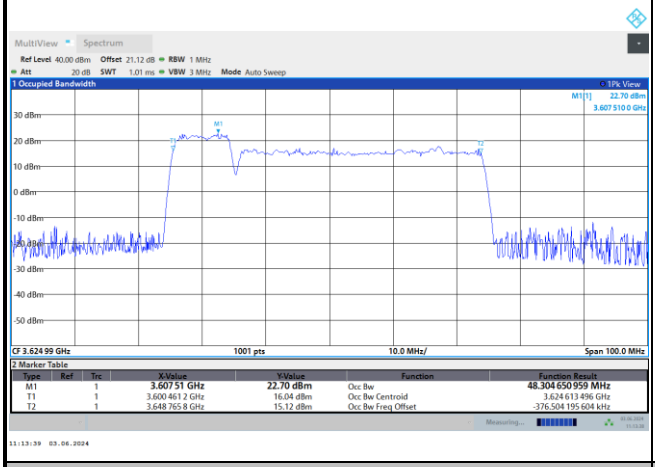


FR1 n48 / 10MHz+40MHz / Middle Channel / 99%OBW

QPSK



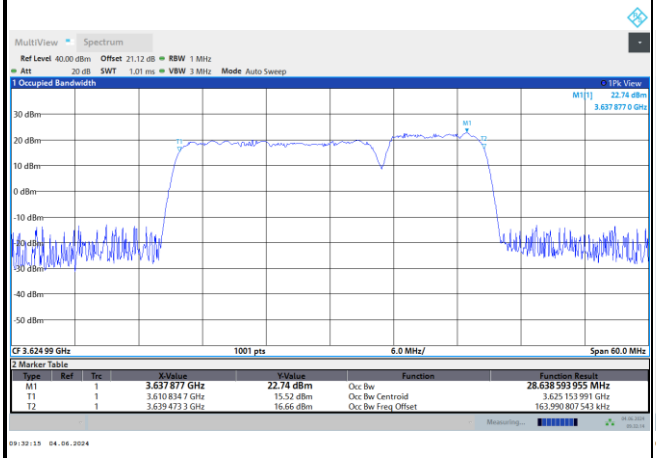
16QAM

64QAM

256QAM

FR1 n48 / 20MHz+10MHz / Middle Channel / 99%OBW

QPSK



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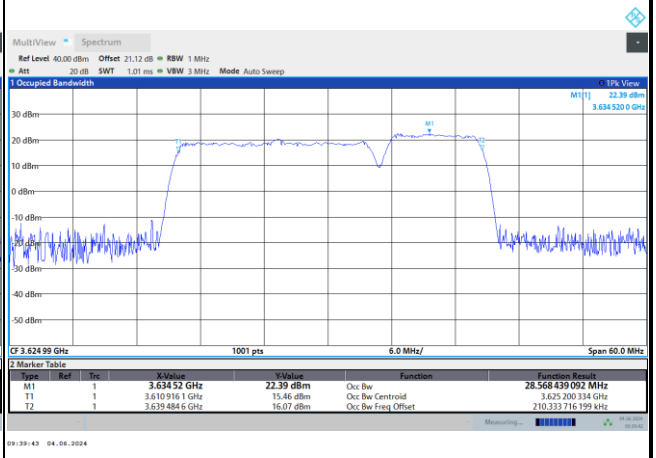

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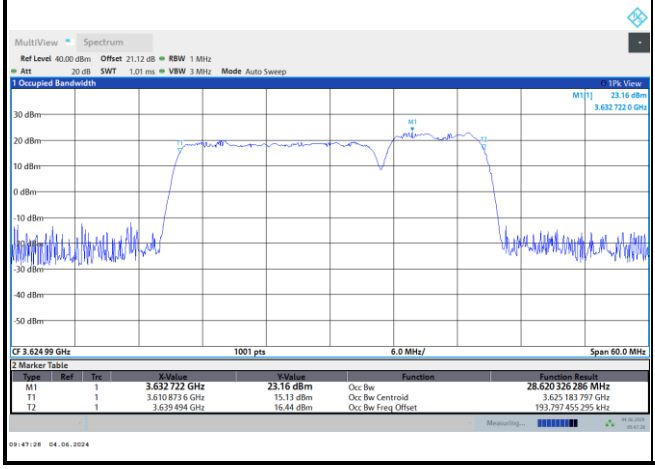
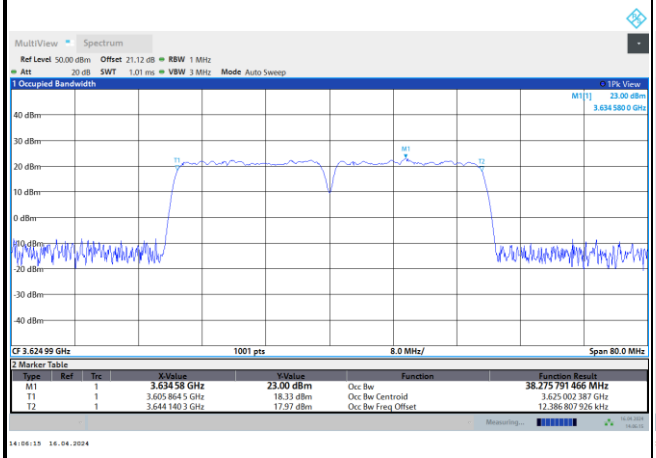


256QAM

FR1 n48 / 20MHz+20MHz / Middle Channel / 99%OBW

QPSK



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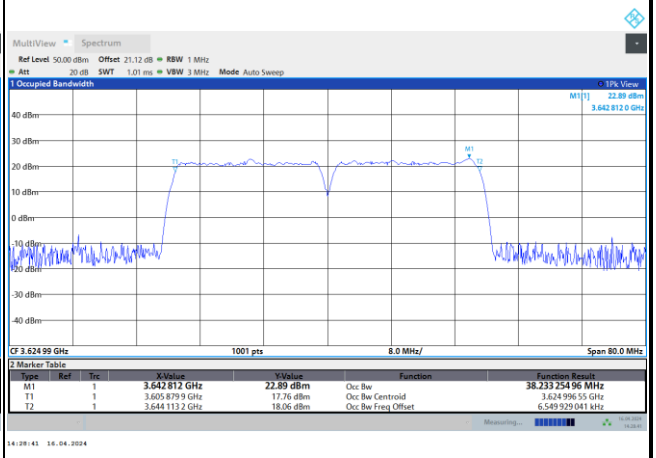

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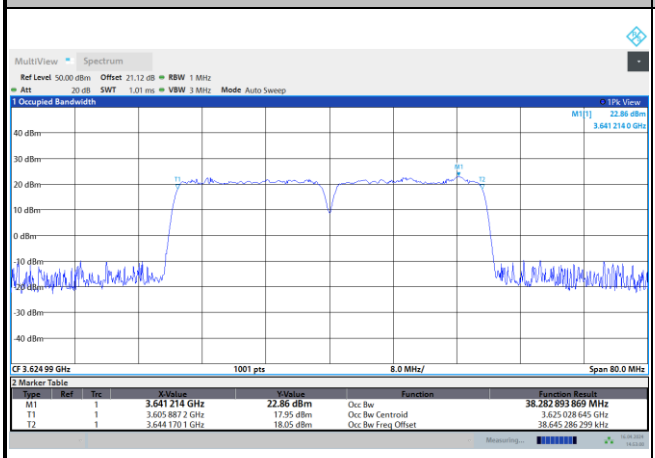

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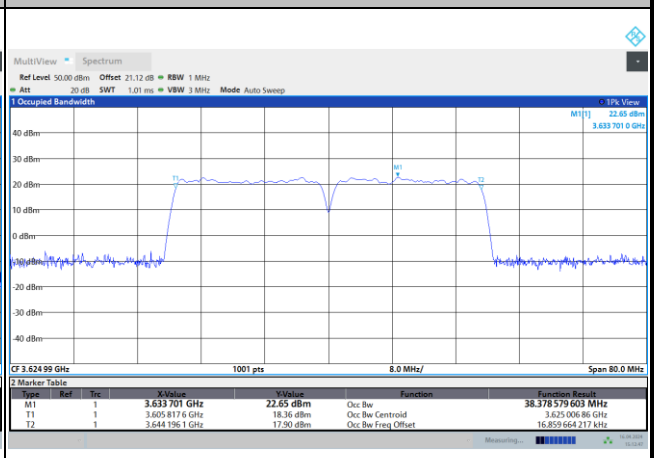
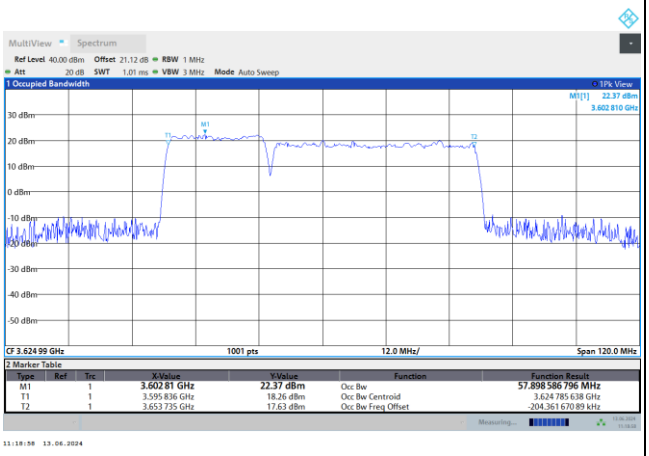


FR1 n48 / 20MHz+40MHz / Middle Channel / 99%OBW

QPSK



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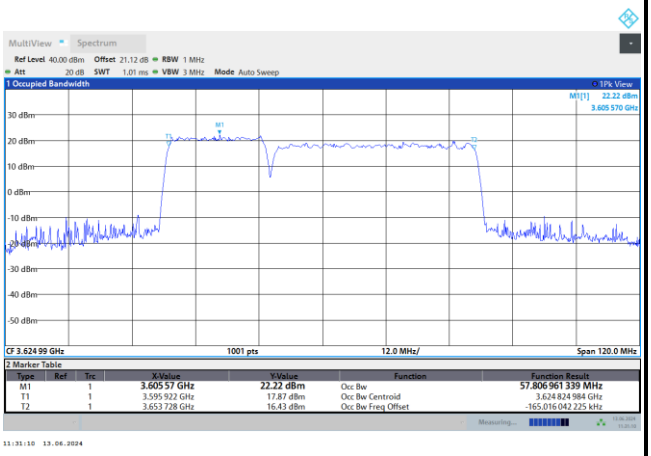
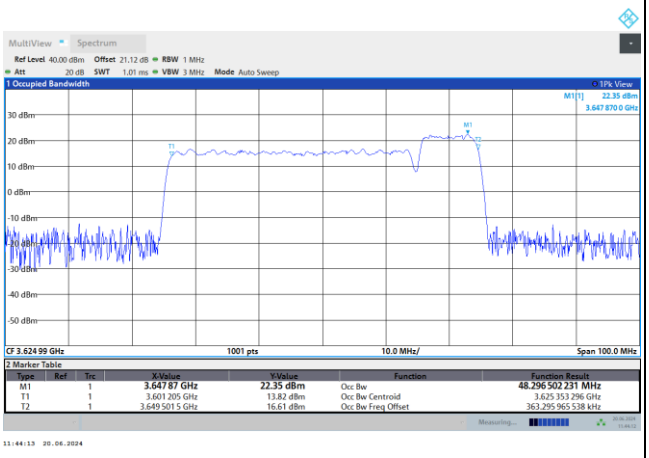


64QAM

256QAM

FR1 n48 / 40MHz+10MHz / Middle Channel / 99%OBW

QPSK



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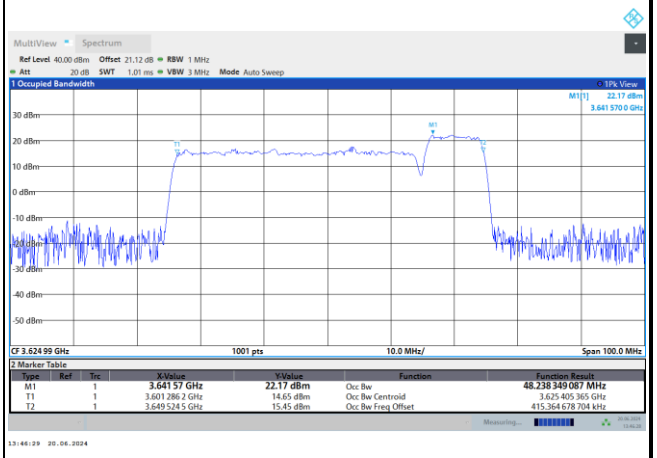

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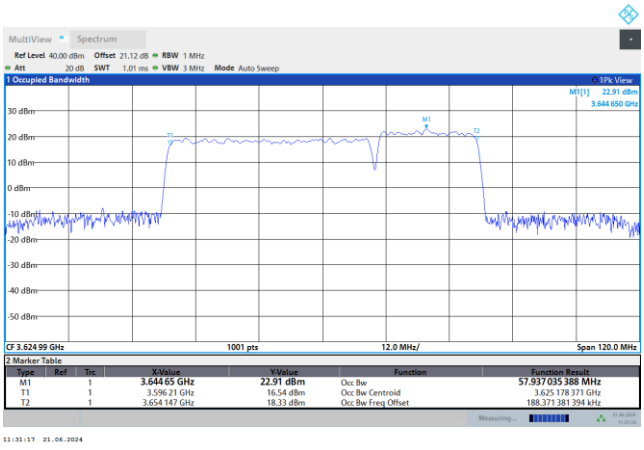
FR1 n48 / 40MHz+20MHz / Middle Channel / 99%OBW

QPSK



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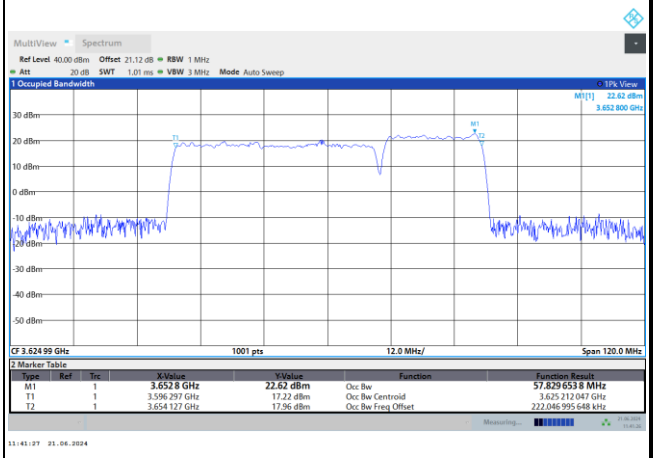

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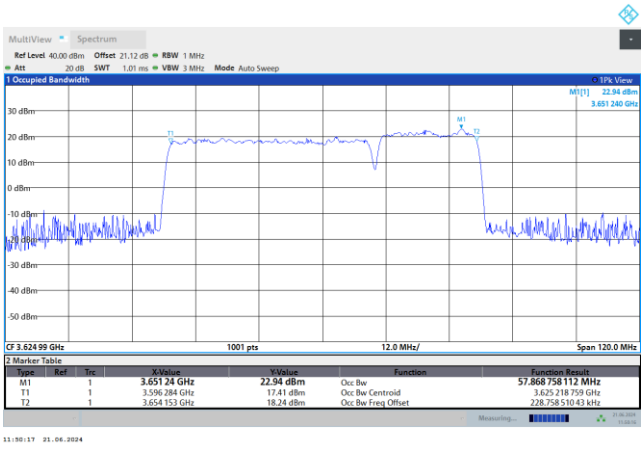

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