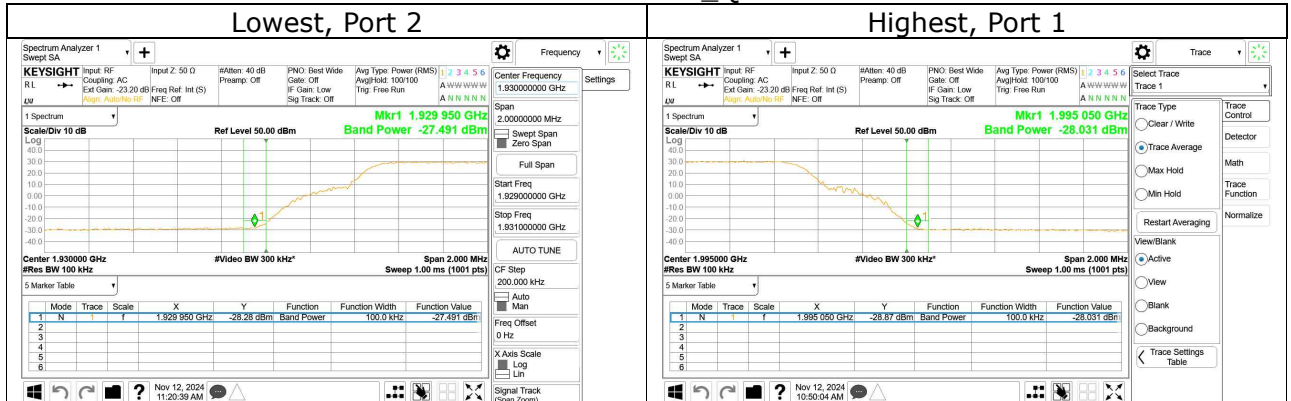
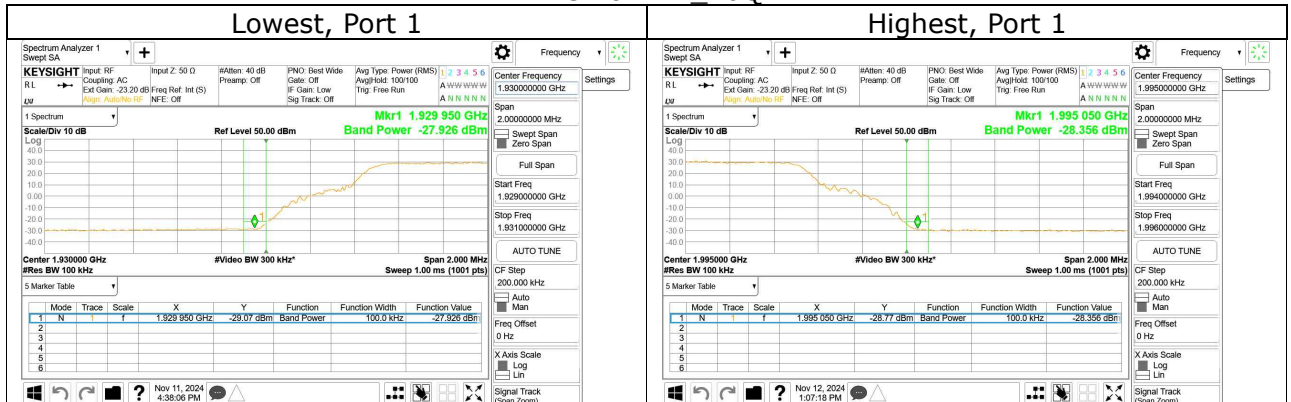


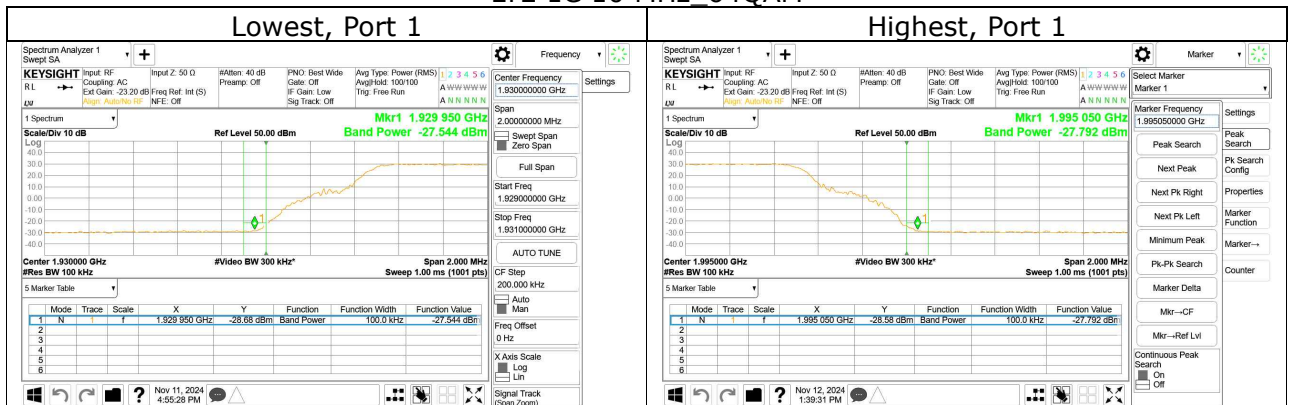
LTE 1C 10 MHz_QPSK



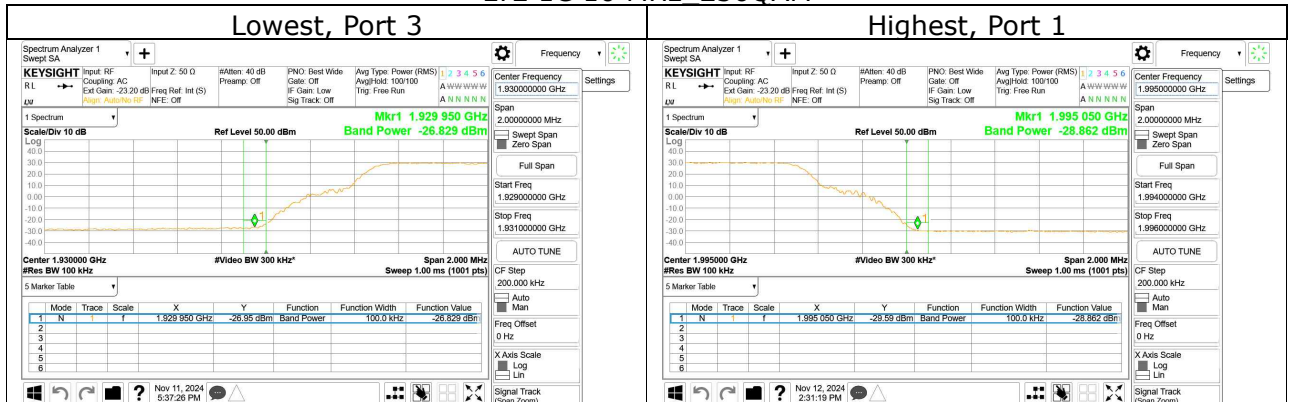
LTE 1C 10 MHz_16QAM



LTE 1C 10 MHz_64QAM



LTE 1C 10 MHz_256QAM



Test mode : LTE 1C 15 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to	-25.74	-25.62	-26.06	-25.88	-19.02
	2		-26.00	-24.97	-25.72	-25.67	
	3	1 930 MHz	-25.24	-25.86	-25.39	-26.60	
	4		-25.64	-25.63	-25.78	-26.11	

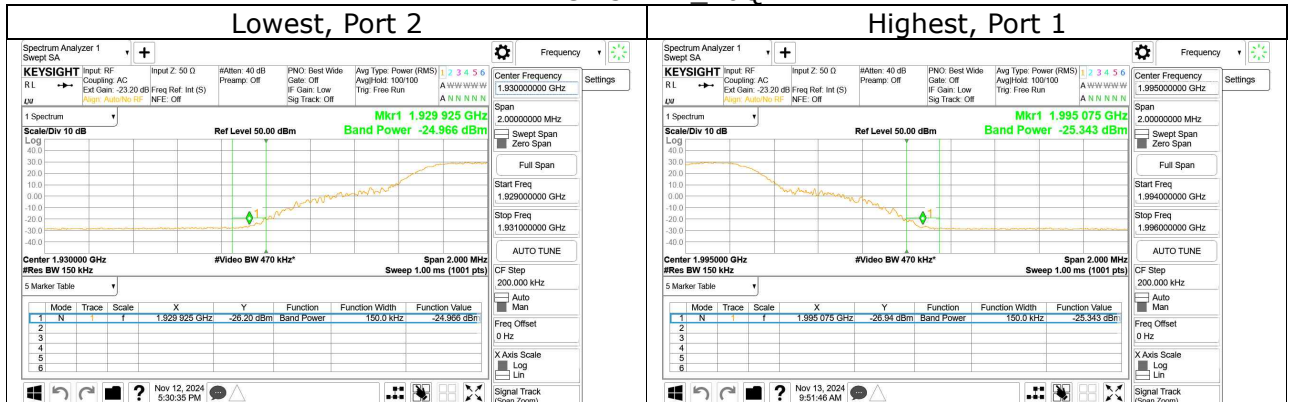
Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz to	-25.10	-25.34	-25.57	-25.37	-19.02
	2		-26.18	-26.30	-26.24	-25.79	
	3	1 996 MHz	-26.42	-26.12	-25.69	-26.25	
	4		-26.69	-25.89	-26.26	-25.90	

See next pages for actual measured spectrum plots.

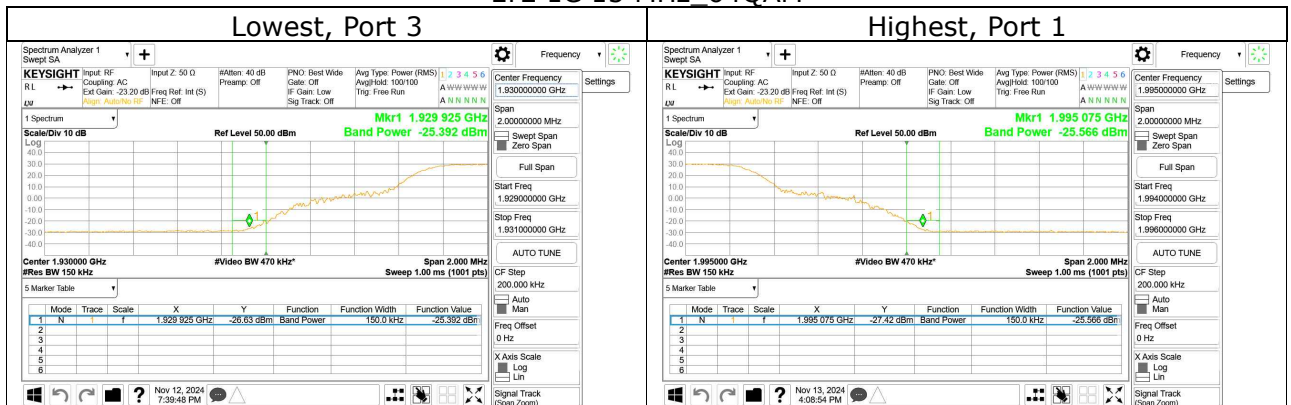
LTE 1C 15 MHz_QPSK



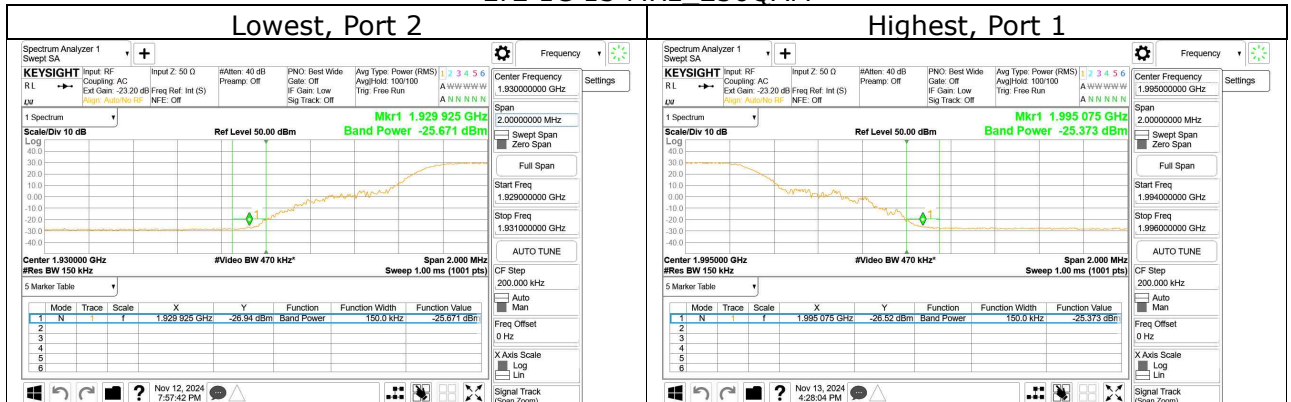
LTE 1C 15 MHz_16QAM



LTE 1C 15 MHz_64QAM



LTE 1C 15 MHz_256QAM



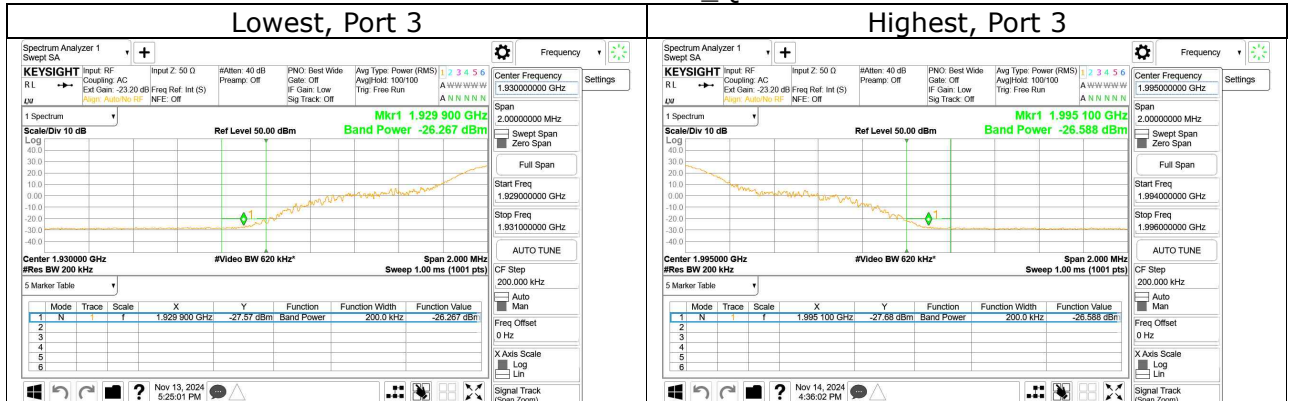
Test mode : LTE 1C 20 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to	-26.53	-26.80	-26.96	-26.50	-19.02
	2		-26.74	-27.56	-27.13	-27.00	
	3	1 930 MHz	-26.27	-26.70	-26.93	-27.43	
	4		-26.57	-26.83	-26.75	-27.79	

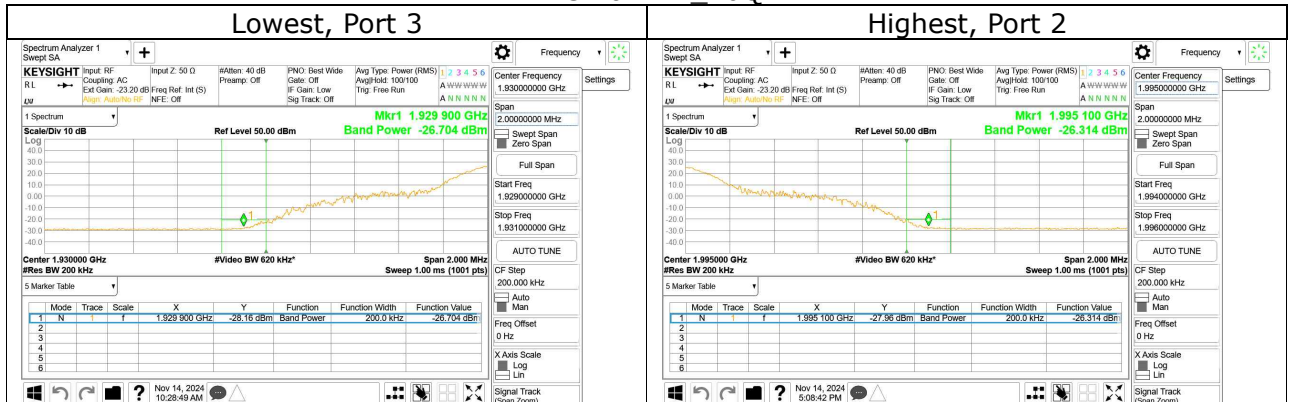
Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz to	-26.74	-26.72	-26.05	-26.47	-19.02
	2		-26.81	-26.31	-26.98	-26.97	
	3	1 996 MHz	-26.59	-27.20	-27.04	-26.95	
	4		-27.27	-27.39	-27.37	-27.94	

See next pages for actual measured spectrum plots.

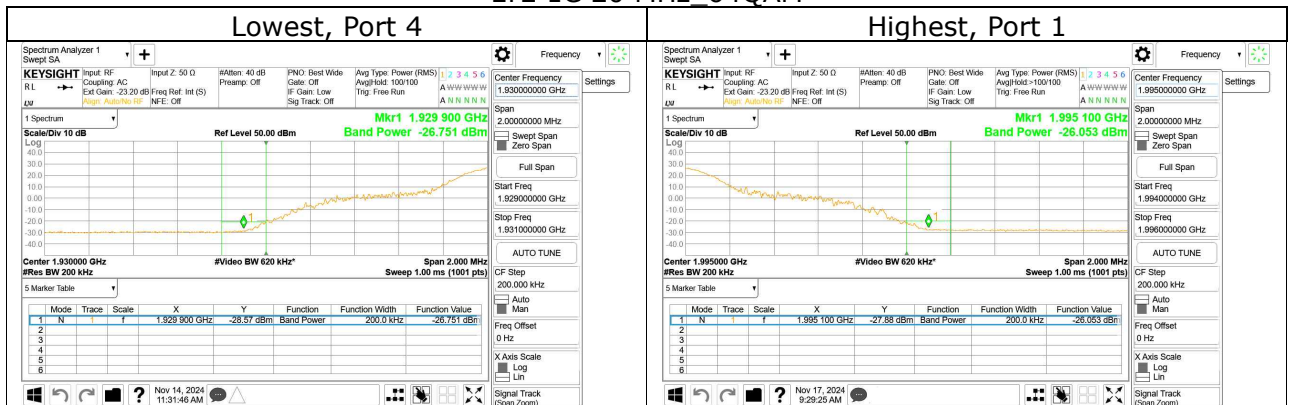
LTE 1C 20 MHz_QPSK



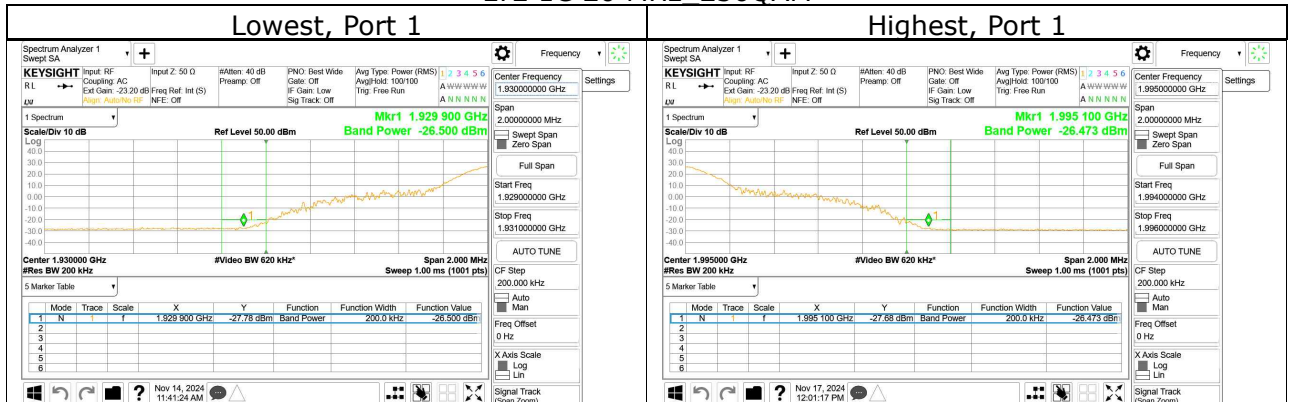
LTE 1C 20 MHz_16QAM



LTE 1C 20 MHz_64QAM



LTE 1C 20 MHz_256QAM



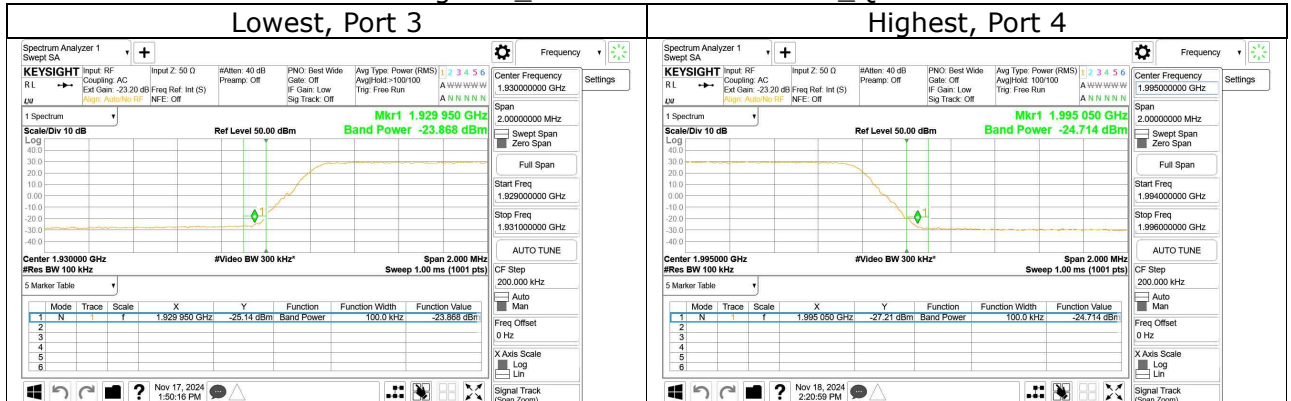
Test mode : Contiguous_LTE 2C 5 MHz + 5 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to 1 930 MHz	-24.46	-26.28	-24.50	-24.56	-19.02
	2		-24.86	-25.06	-24.55	-24.86	
	3		-23.87	-25.50	-24.89	-24.81	
	4		-24.94	-25.77	-25.63	-25.59	

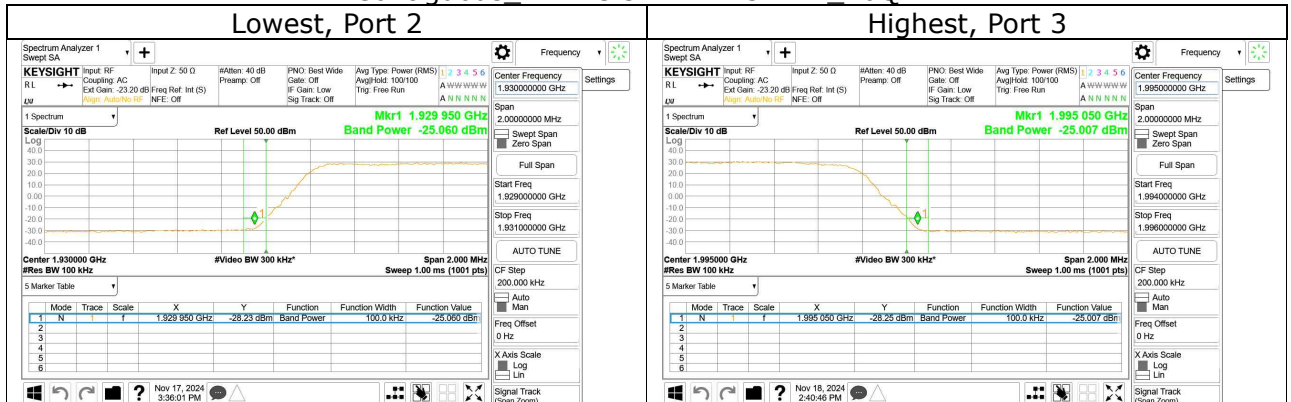
Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz to 1 996 MHz	-24.99	-25.15	-25.29	-25.24	-19.02
	2		-25.67	-25.83	-24.94	-25.30	
	3		-25.15	-25.01	-26.74	-25.69	
	4		-24.71	-25.90	-25.52	-25.18	

See next pages for actual measured spectrum plots.

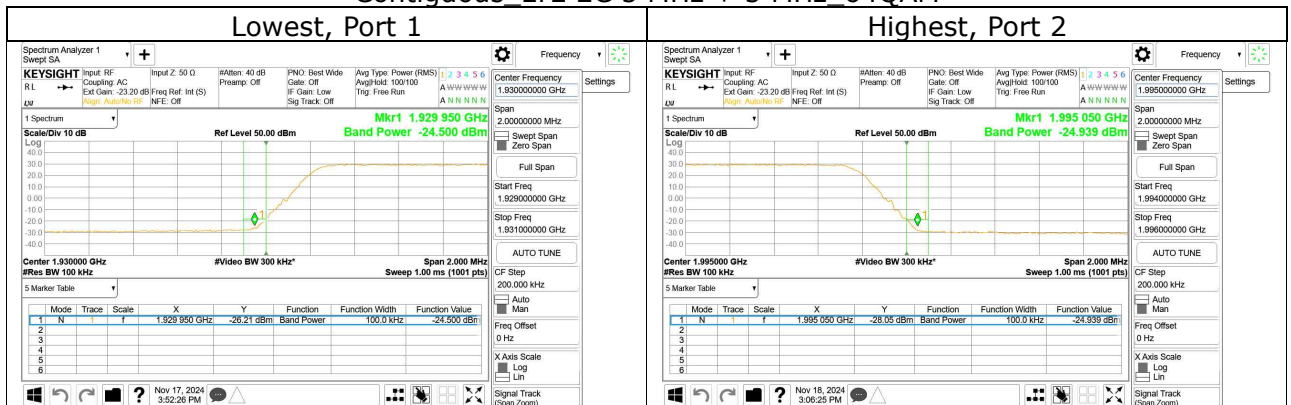
Contiguous_LTE 2C 5 MHz + 5 MHz_QPSK



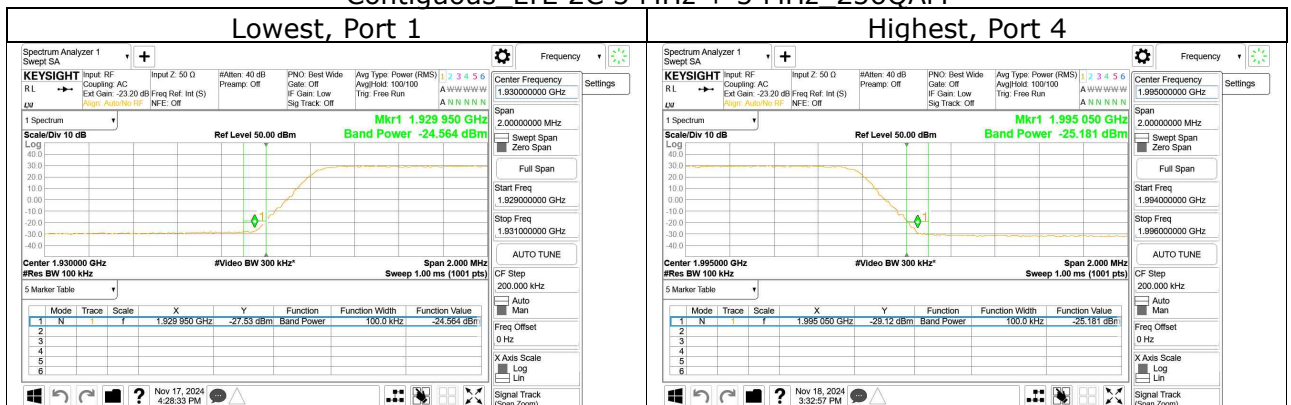
Contiguous_LTE 2C 5 MHz + 5 MHz_16QAM



Contiguous_LTE 2C 5 MHz + 5 MHz_64QAM



Contiguous_LTE 2C 5 MHz + 5 MHz_256QAM

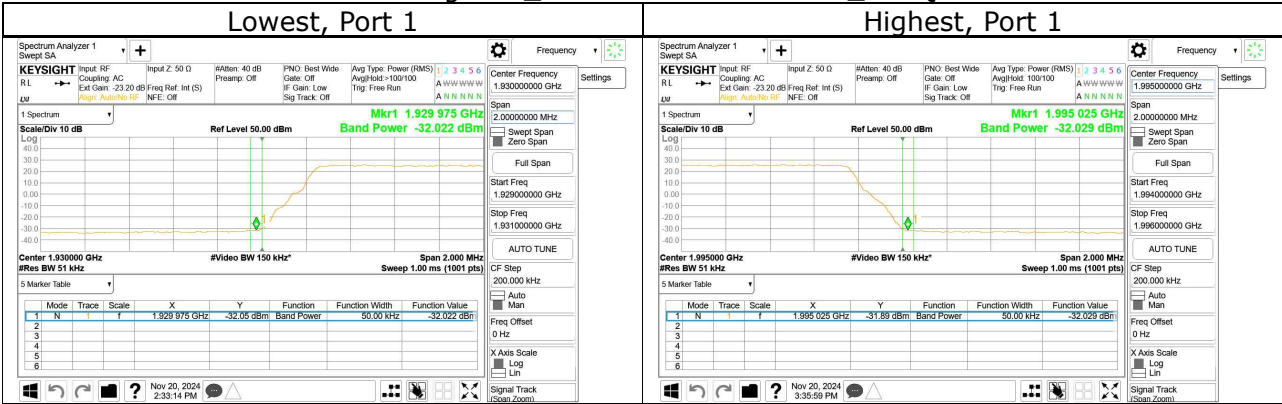


Test mode : Non-Contiguous_LTE 2C 5 MHz + 5 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to 1 930 MHz				-32.02	-19.02
	2					-33.16	
	3					-33.00	
	4					-33.45	
Highest	1	1 995 MHz to 1 996 MHz				-32.03	-19.02
	2					-32.23	
	3					-32.59	
	4					-32.69	

See next pages for actual measured spectrum plots.

Non-Contiguous_LTE 2C 5 MHz + 5 MHz_256QAM



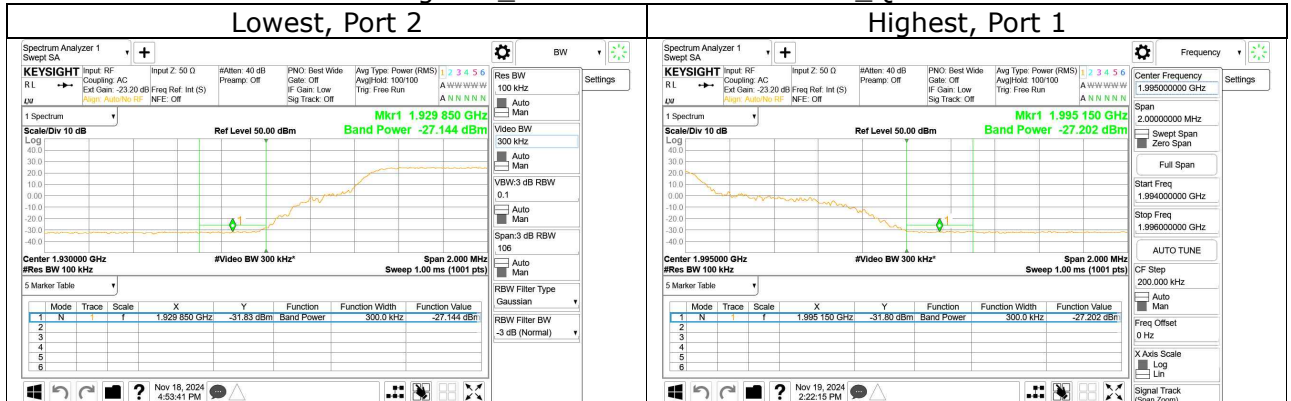
Test mode : Contiguous_LTE 2C 10 MHz + 20 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz	-27.16	-26.84	-26.52	-26.83	-19.02
	2		-27.14	-27.41	-26.76	-27.52	
	3	1 930 MHz	-27.27	-27.23	-27.05	-27.43	
	4		-27.87	-28.11	-27.27	-28.09	

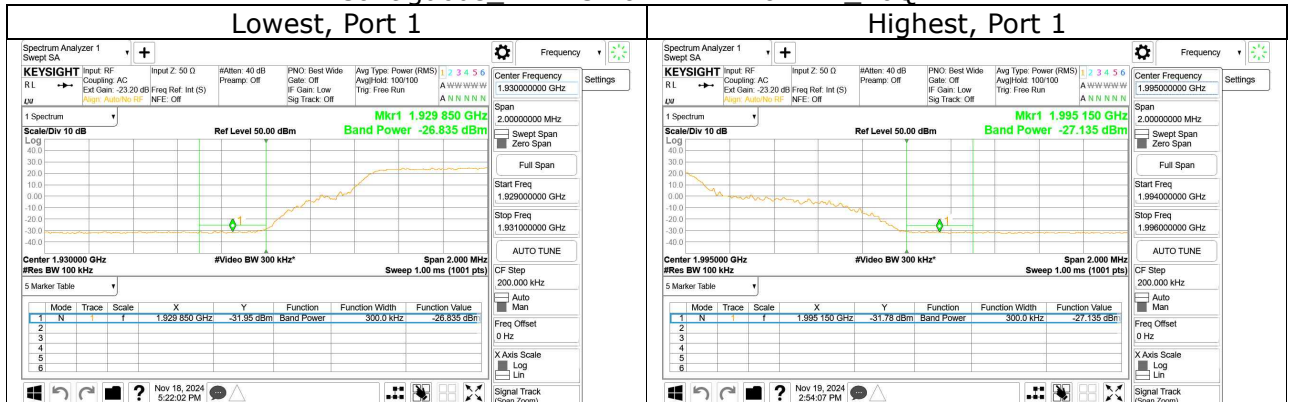
Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz	-27.20	-27.14	-24.25	-27.33	-19.02
	2		-27.84	-27.75	-26.64	-27.15	
	3	1 996 MHz	-28.13	-28.30	-27.88	-28.10	
	4		-28.01	-28.06	-28.14	-27.87	

See next pages for actual measured spectrum plots.

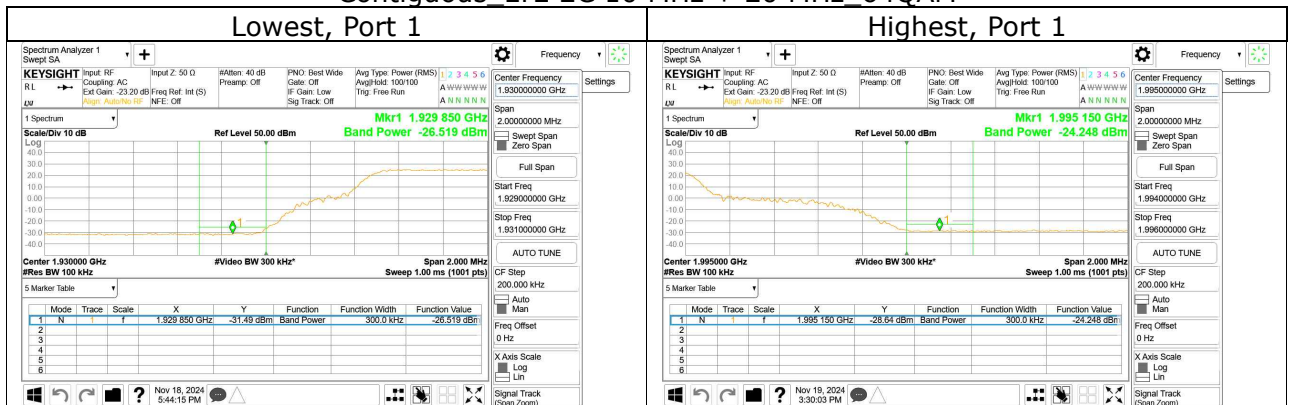
Contiguous LTE 2C 10 MHz + 20 MHz QPSK



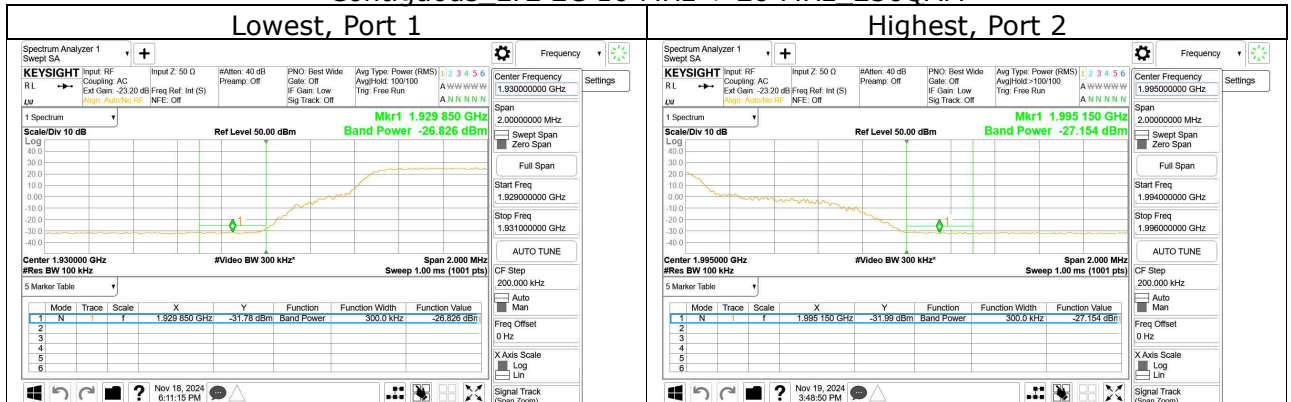
Contiguous LTE 2C 10 MHz + 20 MHz 16QAM



Contiguous LTE 2C 10 MHz + 20 MHz 64QAM



Contiguous LTE 2C 10 MHz + 20 MHz 256QAM



Test mode : Non-Contiguous_LTE 2C 10 MHz + 20 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz	-31.42				-19.02
	2		-31.94				
	3	1 930 MHz	-31.12				
	4		-32.11				

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz	-27.45				-19.02
	2		-27.85				
	3	1 996 MHz	-28.26				
	4		-28.40				

See next pages for actual measured spectrum plots.

Non-Contiguous_LTE 2C 10 MHz + 20 MHz_QPSK



Test mode : NR 1C 5 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to	-32.39	-31.67	-32.99	-33.13	-19.02
	2		-32.91	-31.60	-30.48	-33.32	
	3	1 930 MHz	-31.86	-32.53	-32.47	-33.31	
	4		-32.82	-31.71	-33.80	-32.18	

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz to	-31.94	-31.83	-32.83	-31.08	-19.02
	2		-32.29	-32.93	-31.84	-32.04	
	3	1 996 MHz	-32.53	-32.74	-32.16	-32.33	
	4		-32.51	-32.98	-31.84	-32.53	

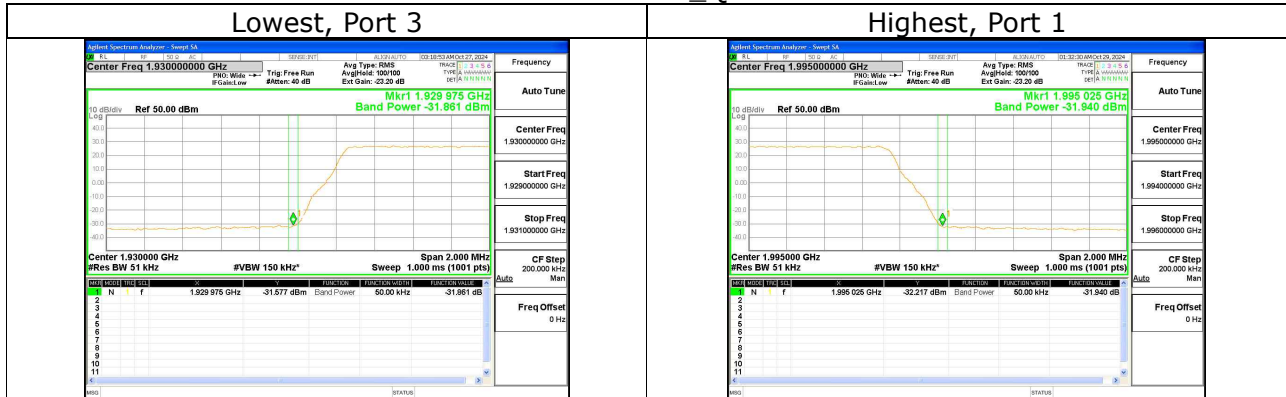
See next pages for actual measured spectrum plots.



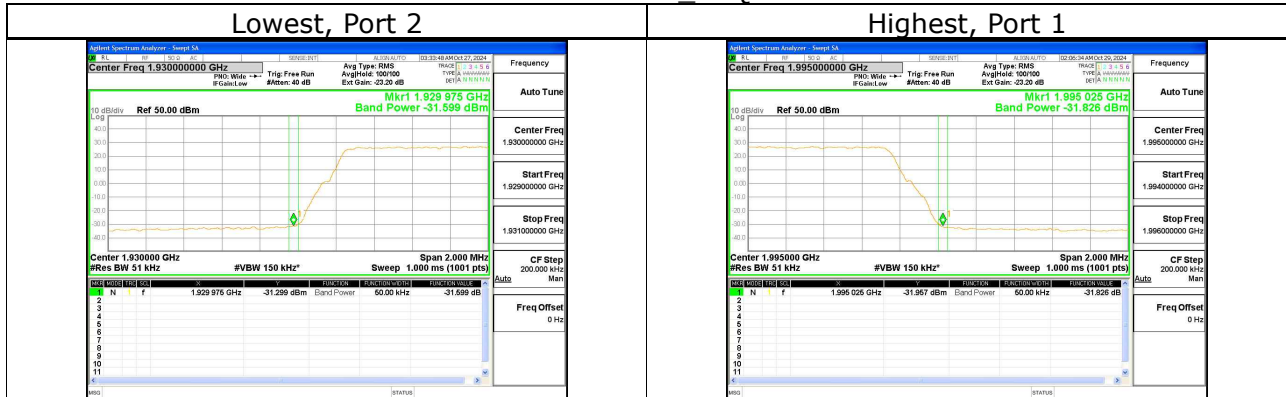
CTK Co., Ltd.
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Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2024-03370
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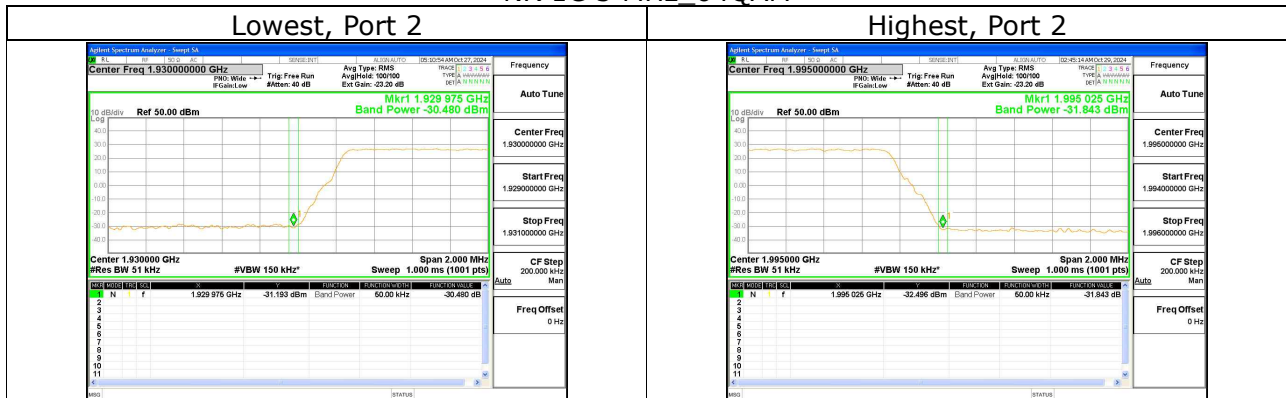
NR 1C 5 MHz_QPSK



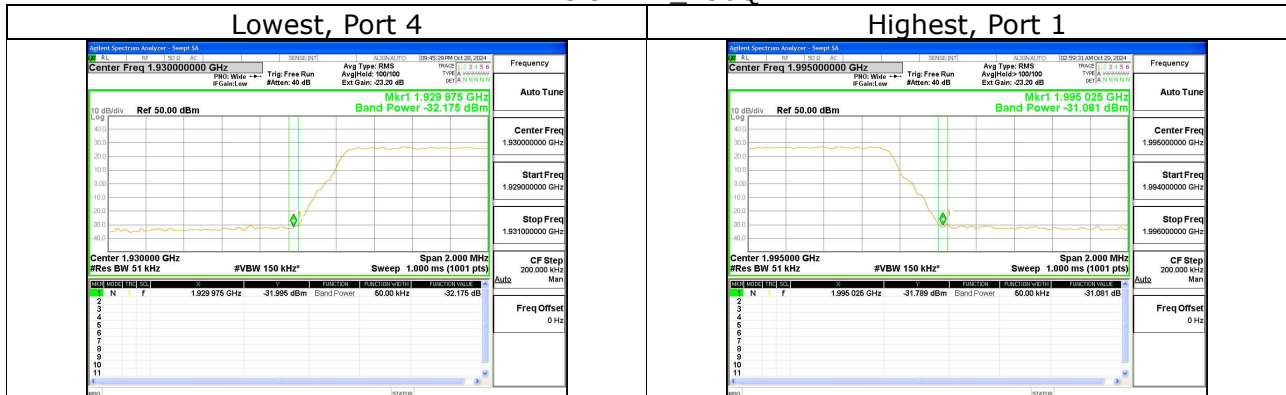
NR 1C 5 MHz_16QAM



NR 1C 5 MHz_64QAM



NR 1C 5 MHz_256QAM



Test mode : NR 1C 10 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to 1 930 MHz	-27.69	-27.26	-28.37	-27.07	-19.02
	2		-27.87	-28.40	-27.67	-27.43	
	3		-27.48	-27.73	-27.62	-28.08	
	4		-28.33	-29.02	-28.33	-29.19	

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz to 1 996 MHz	-27.93	-27.18	-27.24	-26.15	-19.02
	2		-28.36	-28.30	-27.23	-28.20	
	3		-28.49	-27.97	-28.17	-28.42	
	4		-28.46	-28.20	-28.37	-29.05	

See next pages for actual measured spectrum plots.

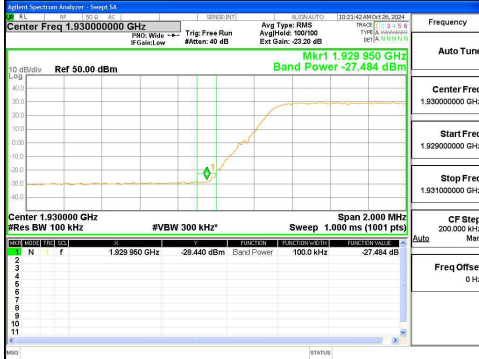


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NR 1C 10 MHz_QPSK

Lowest, Port 3



Highest, Port 1

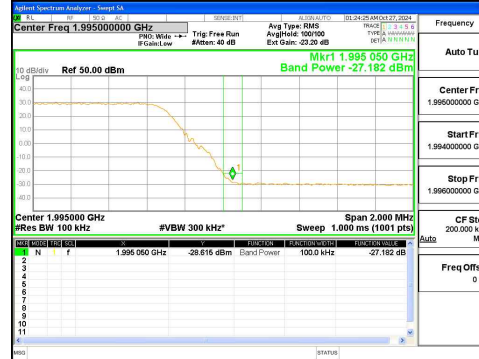


NR 1C 10 MHz_16QAM

Lowest, Port 1

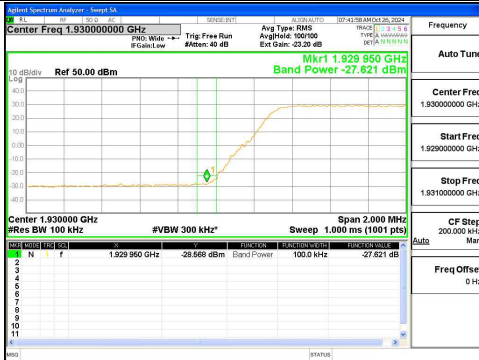


Highest, Port 1

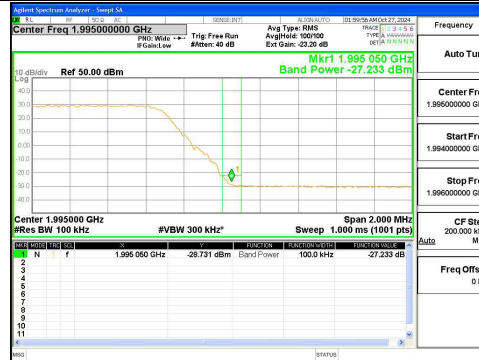


NR 1C 10 MHz_64QAM

Lowest, Port 3

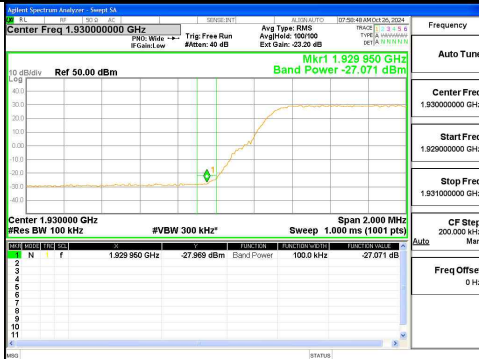


Highest, Port 2

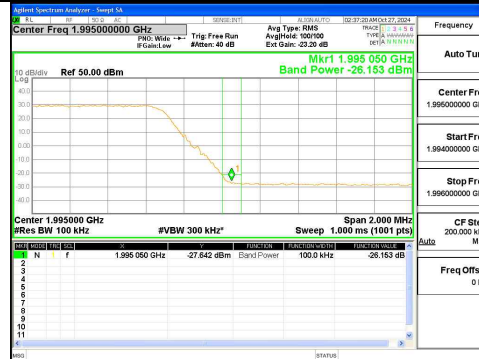


NR 1C 10 MHz_256QAM

Lowest, Port 1



Highest, Port 1



Test mode : NR 1C 15 MHz

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	1 929 MHz to	-23.55	-23.74	-24.03	-23.42	-19.02
	2		-24.47	-23.29	-24.06	-23.62	
	3	1 930 MHz	-23.30	-23.86	-24.37	-23.63	
	4		-23.36	-24.76	-23.71	-23.18	

Channel	Port #	Measurement Range	Band edge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	1 995 MHz to	-23.09	-23.00	-23.92	-24.13	-19.02
	2		-23.42	-23.16	-23.19	-23.72	
	3	1 996 MHz	-23.71	-23.32	-23.98	-23.83	
	4		-23.50	-23.15	-23.32	-24.79	

See next pages for actual measured spectrum plots.