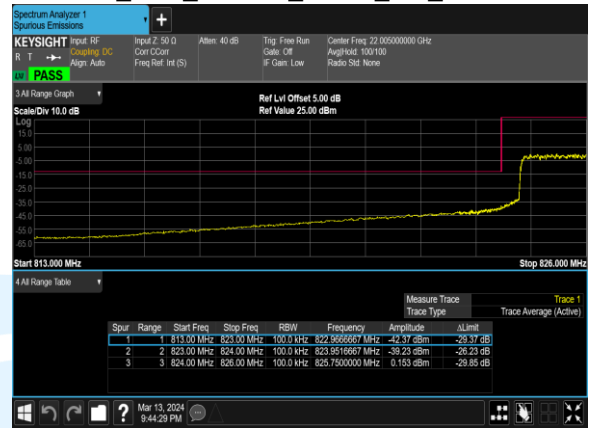


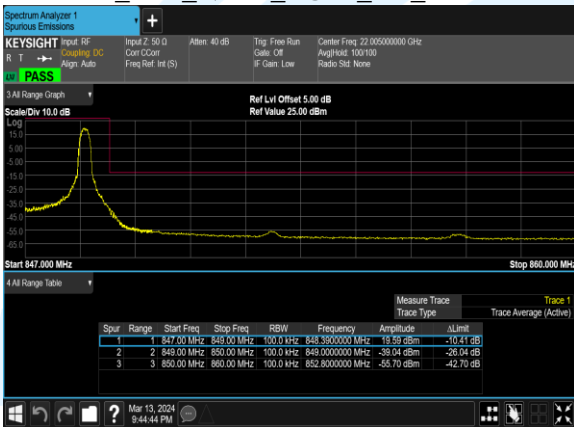
B5\_10M\_16QAM\_1@0\_CH\_20450



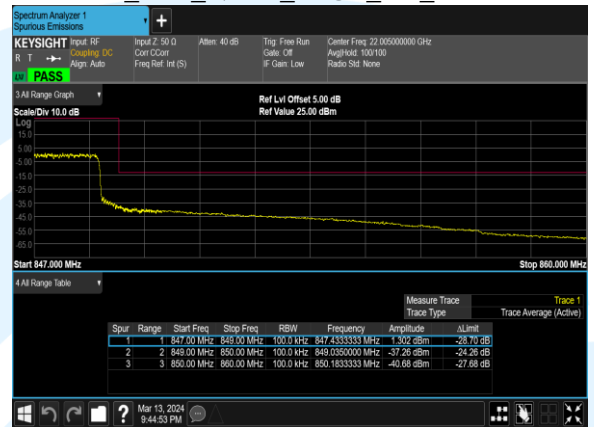
B5\_10M\_16QAM\_50@0\_CH\_20450



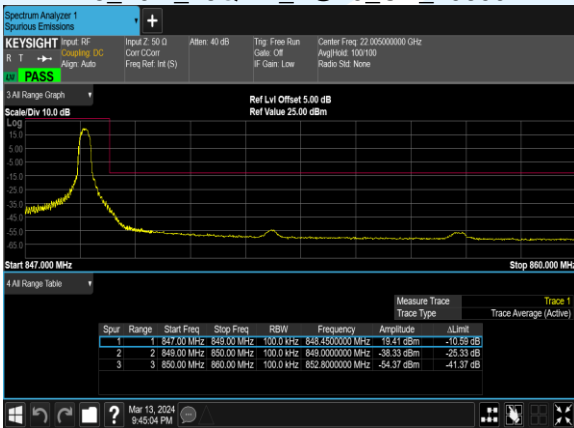
B5\_10M\_QPSK\_1@49\_CH\_20600



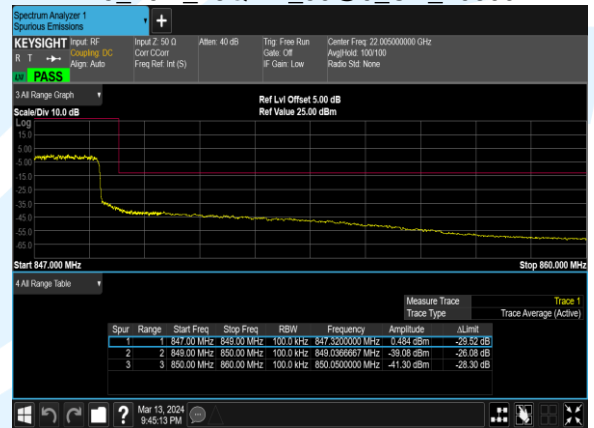
B5\_10M\_QPSK\_50@0\_CH\_20600



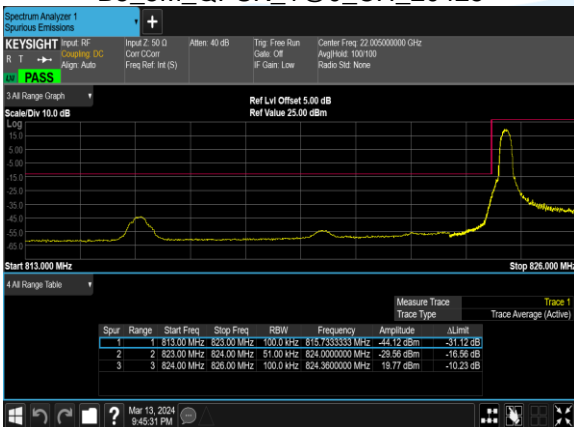
B5\_10M\_16QAM\_1@49\_CH\_20600



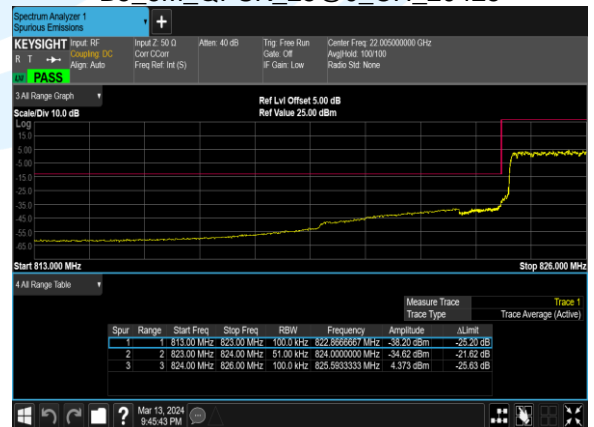
B5\_10M\_16QAM\_50@0\_CH\_20600



B5\_5M\_QPSK\_1@0\_CH\_20425



B5\_5M\_QPSK\_25@0\_CH\_20425



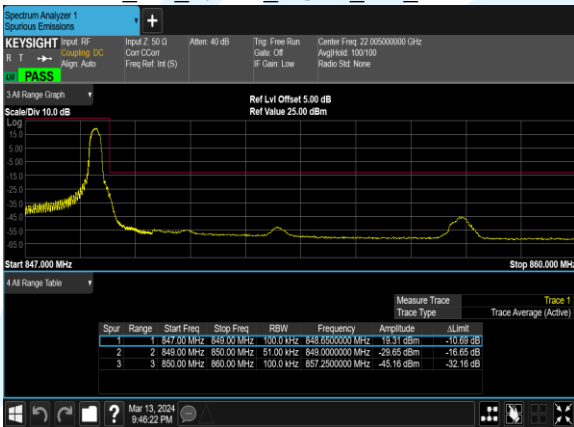
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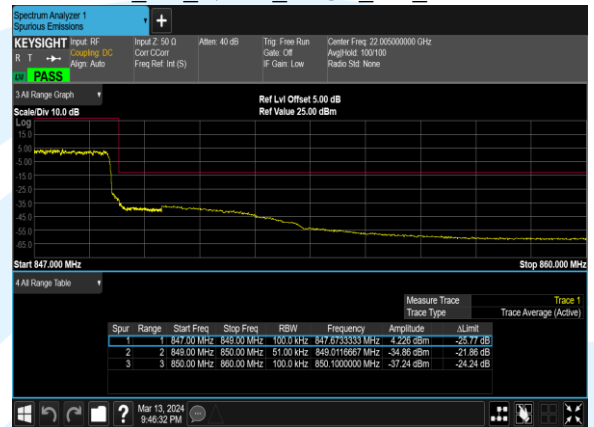
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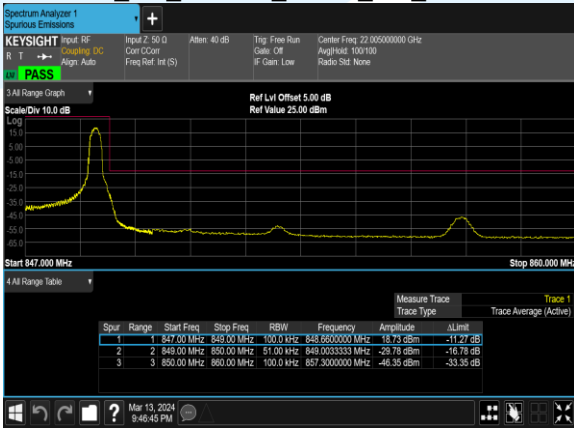
B5\_5M\_QPSK\_1@24\_CH\_20625



B5\_5M\_QPSK\_25@0\_CH\_20625



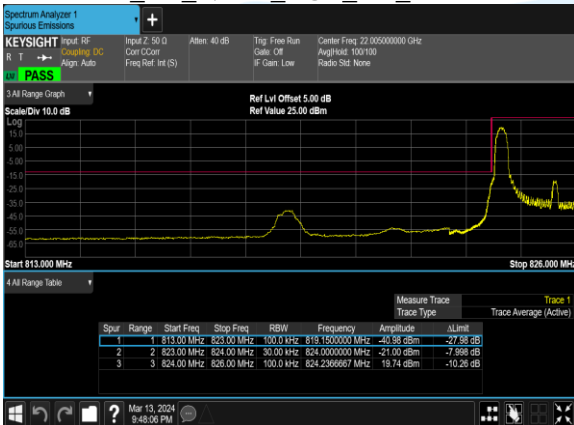
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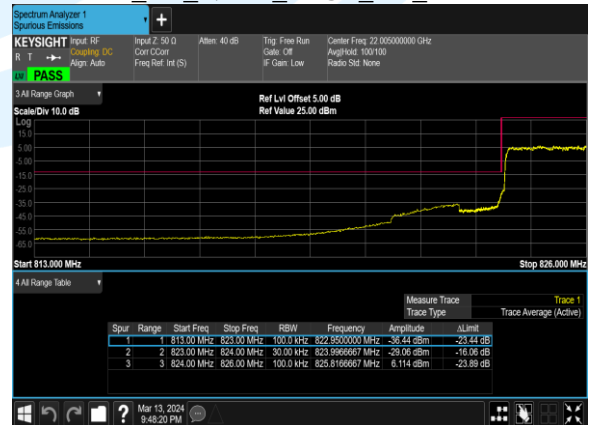
B5\_5M\_16QAM\_25@0\_CH\_20625



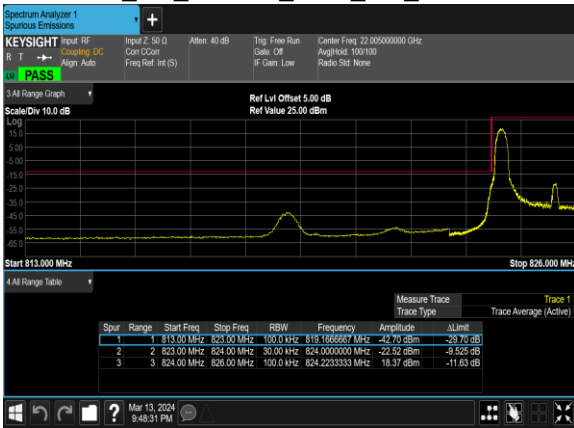
B5\_3M\_QPSK\_1@0\_CH\_20415



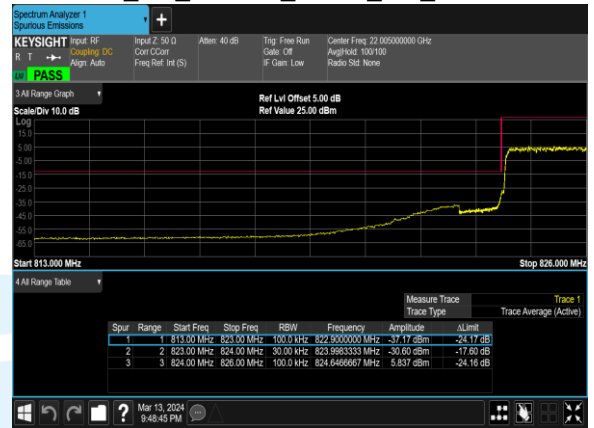
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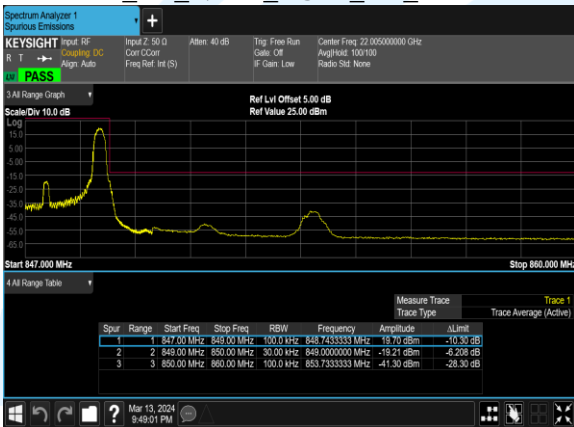
B5\_3M\_16QAM\_1@0\_CH\_20415



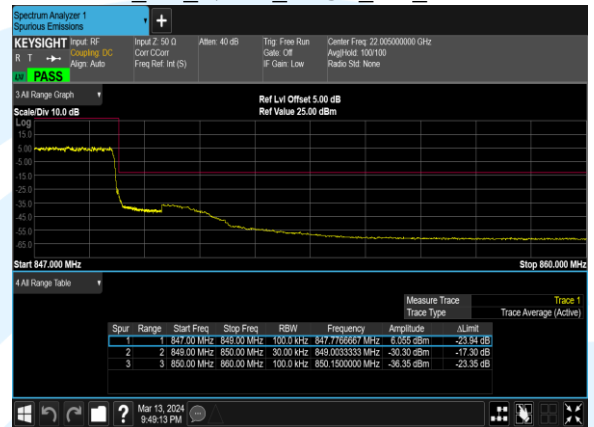
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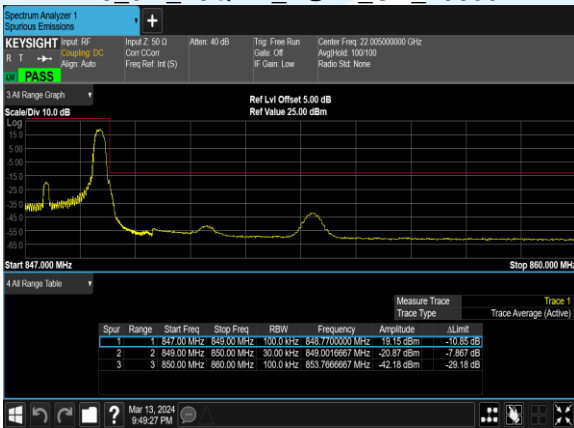
B5\_3M\_QPSK\_1@14\_CH\_20635



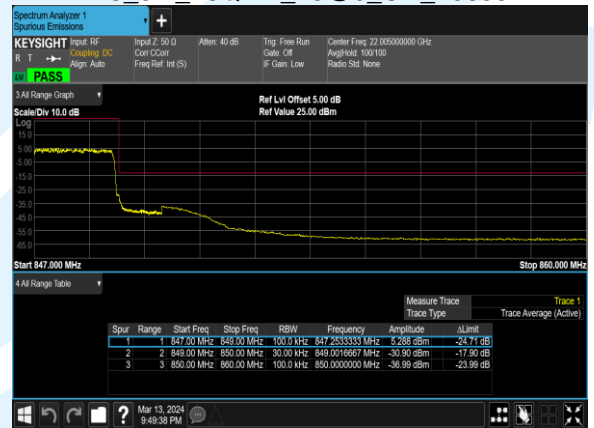
B5\_3M\_QPSK\_15@0\_CH\_20635



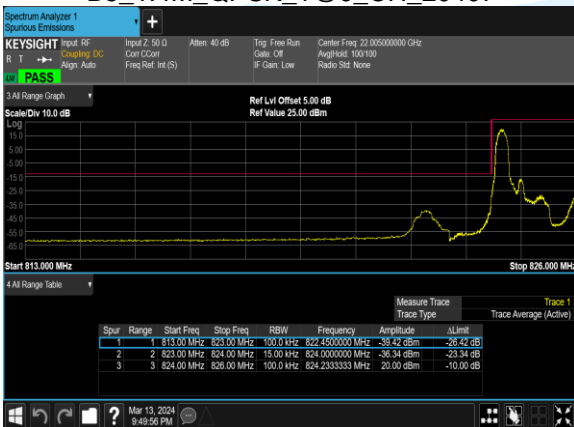
B5\_3M\_16QAM\_1@14\_CH\_20635



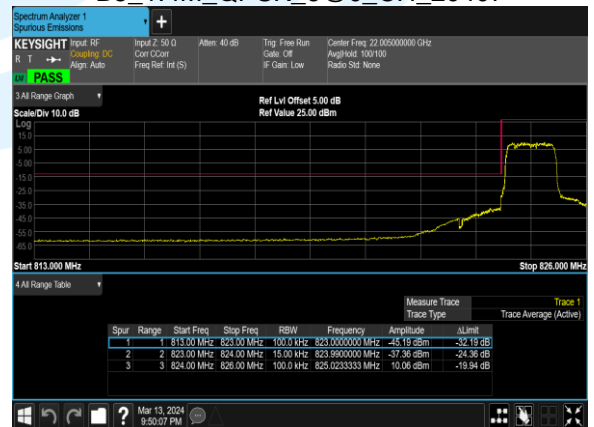
B5\_3M\_16QAM\_15@0\_CH\_20635



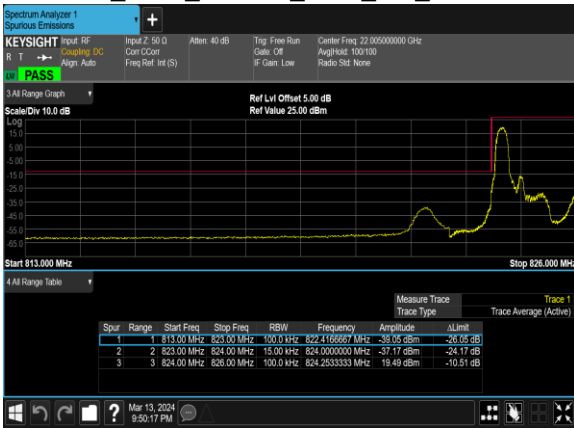
B5\_1.4M\_QPSK\_1@0\_CH\_20407



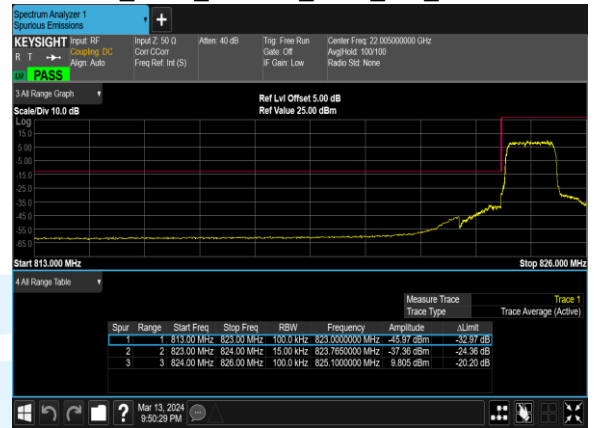
B5\_1.4M\_QPSK\_6@0\_CH\_20407



B5\_1.4M\_16QAM\_1@0\_CH\_20407



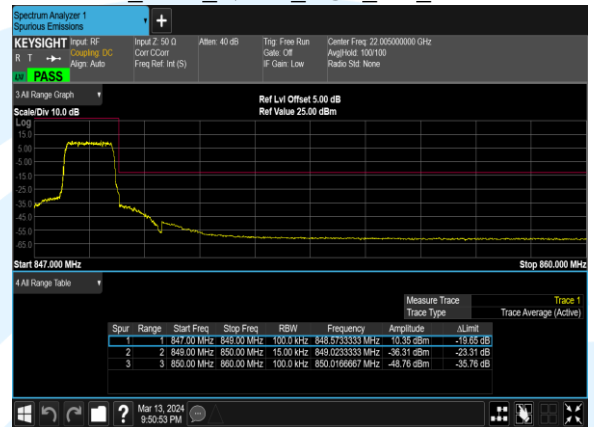
B5\_1.4M\_16QAM\_6@0\_CH\_20407



B5\_1.4M\_QPSK\_1@5\_CH\_20643



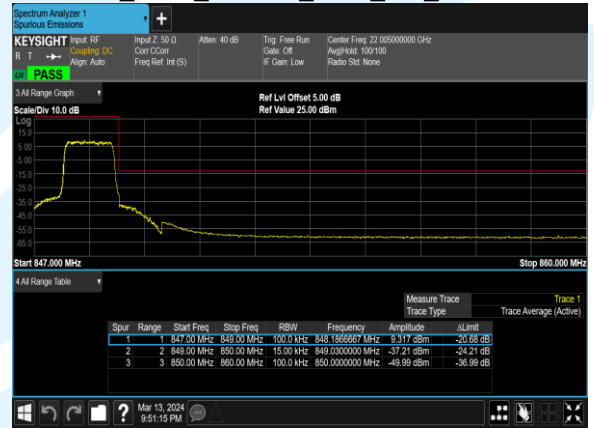
B5\_1.4M\_QPSK\_6@0\_CH\_20643



B5\_1.4M\_16QAM\_1@5\_CH\_20643



B5\_1.4M\_16QAM\_6@0\_CH\_20643



B5\_10M\_64QAM\_1@0\_CH\_20450

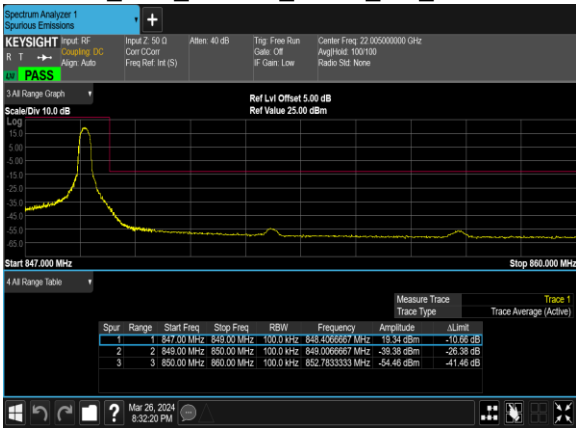


B5\_10M\_64QAM\_50@0\_CH\_20450

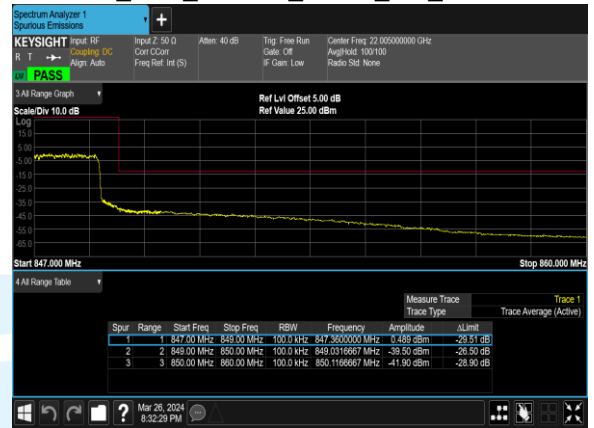




B5\_10M\_64QAM\_1@49\_CH\_20600



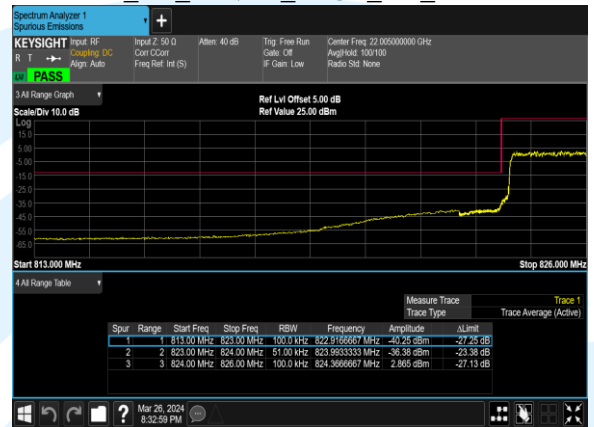
B5\_10M\_64QAM\_50@0\_CH\_20600



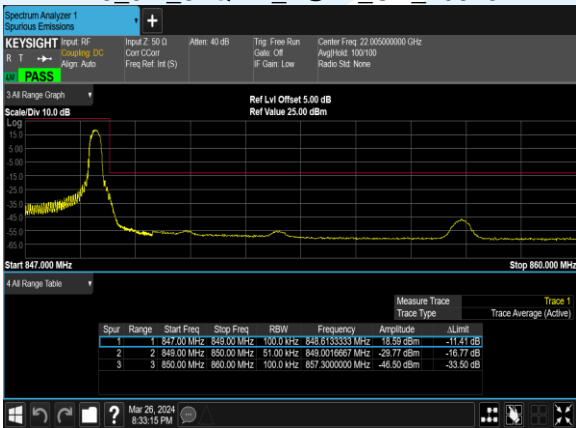
B5\_5M\_64QAM\_1@0\_CH\_20425



B5\_5M\_64QAM\_25@0\_CH\_20425



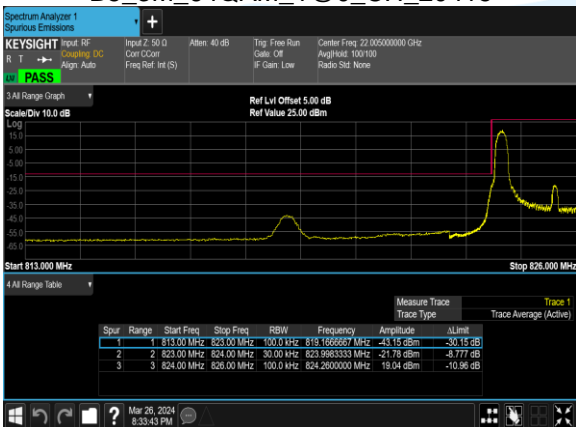
B5\_5M\_64QAM\_1@24\_CH\_20625



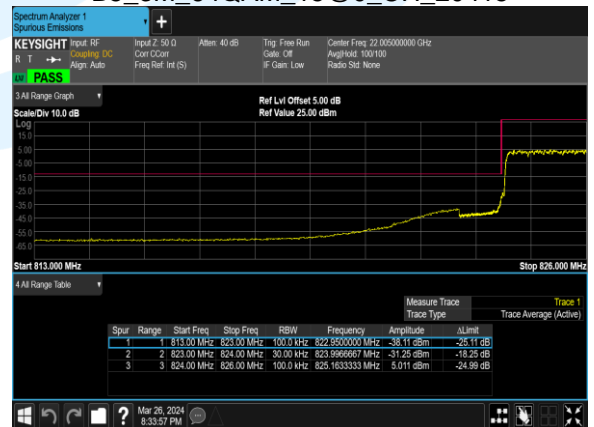
B5\_5M\_64QAM\_25@0\_CH\_20625



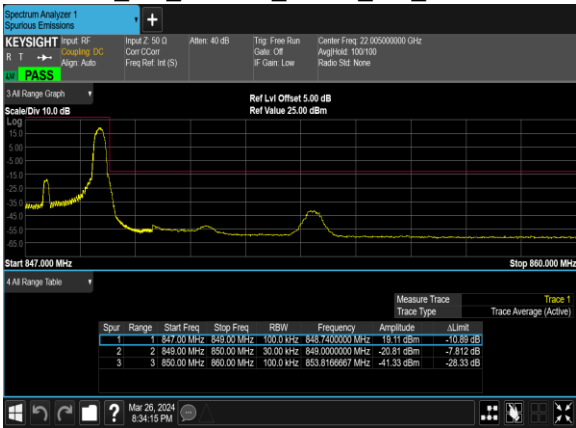
B5\_3M\_64QAM\_1@0\_CH\_20415



B5\_3M\_64QAM\_15@0\_CH\_20415



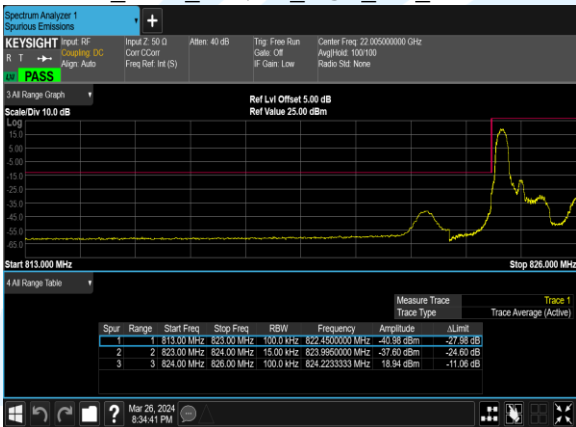
B5\_3M\_64QAM\_1@14\_CH\_20635



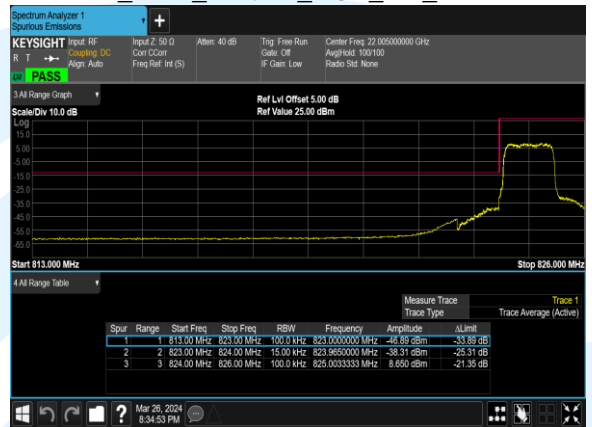
B5\_3M\_64QAM\_15@0\_CH\_20635



B5\_1.4M\_64QAM\_1@0\_CH\_20407



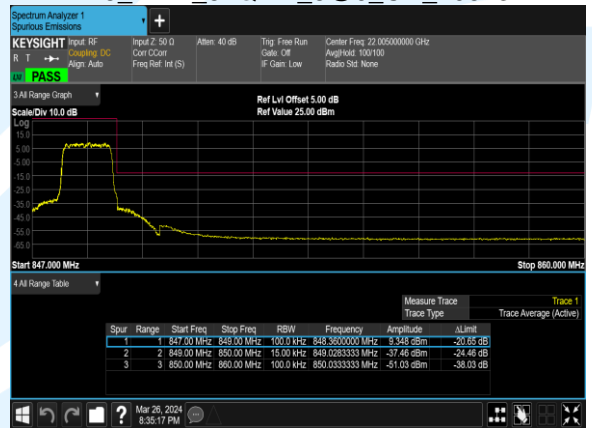
B5\_1.4M\_64QAM\_6@0\_CH\_20407



B5\_1.4M\_64QAM\_1@5\_CH\_20643



B5\_1.4M\_64QAM\_6@0\_CH\_20643



### A.4 LTE BAND 7

#### Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	QPSK	100@0	5.41	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.00	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.34	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.05	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.25	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	6.03	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.12	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	5.84	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.23	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.01	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.19	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	6.00	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.13	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	5.83	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.31	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.01	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.34	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.10	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.05	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	5.67	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.22	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	5.93	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.18	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	5.88	13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	64QAM	100@0	6.08	13	PASS
7	20.0	21100	2535.0	64QAM	100@0	6.14	13	PASS
7	20.0	21350	2560.0	64QAM	100@0	6.03	13	PASS
7	15.0	20825	2507.5	64QAM	75@0	5.97	13	PASS
7	15.0	21100	2535.0	64QAM	75@0	6.06	13	PASS
7	15.0	21375	2562.5	64QAM	75@0	6.01	13	PASS
7	10.0	20800	2505.0	64QAM	50@0	6.00	13	PASS
7	10.0	21100	2535.0	64QAM	50@0	6.12	13	PASS
7	10.0	21400	2565.0	64QAM	50@0	6.10	13	PASS
7	5.0	20775	2502.5	64QAM	25@0	6.04	13	PASS
7	5.0	21100	2535.0	64QAM	25@0	6.09	13	PASS
7	5.0	21425	2567.5	64QAM	25@0	5.98	13	PASS

#### Test Graphs

B7\_20M\_QPSK\_100@0\_CH\_20850



B7\_20M\_16QAM\_100@0\_CH\_20850



B7\_20M\_QPSK\_100@0\_CH\_21100



B7\_20M\_16QAM\_100@0\_CH\_21100



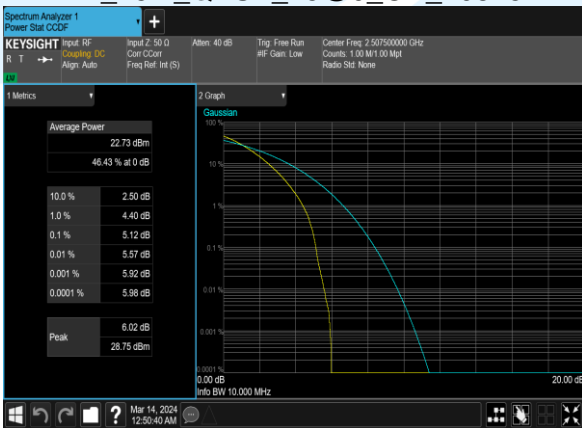
B7\_20M\_QPSK\_100@0\_CH\_21350



B7\_20M\_16QAM\_100@0\_CH\_21350



B7\_15M\_QPSK\_75@0\_CH\_20825



B7\_15M\_16QAM\_75@0\_CH\_20825



B7\_15M\_QPSK\_75@0\_CH\_21100



B7\_15M\_16QAM\_75@0\_CH\_21100





B7\_15M\_QPSK\_75@0\_CH\_21375



B7\_15M\_16QAM\_75@0\_CH\_21375



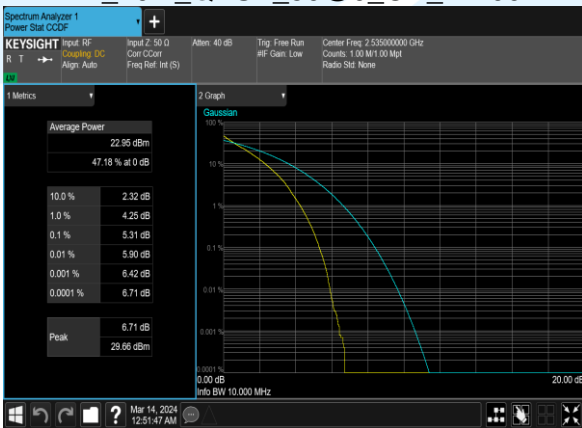
B7\_10M\_QPSK\_50@0\_CH\_20800



B7\_10M\_16QAM\_50@0\_CH\_20800



B7\_10M\_QPSK\_50@0\_CH\_21100



B7\_10M\_16QAM\_50@0\_CH\_21100



B7\_10M\_QPSK\_50@0\_CH\_21400



B7\_10M\_16QAM\_50@0\_CH\_21400



B7\_5M\_QPSK\_25@0\_CH\_20775



B7\_5M\_16QAM\_25@0\_CH\_20775



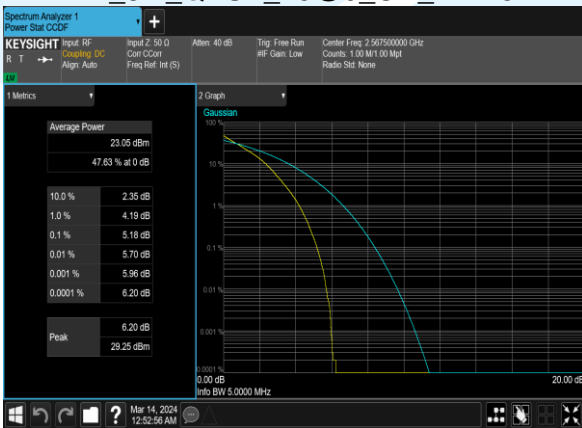
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B7\_5M\_16QAM\_25@0\_CH\_21100



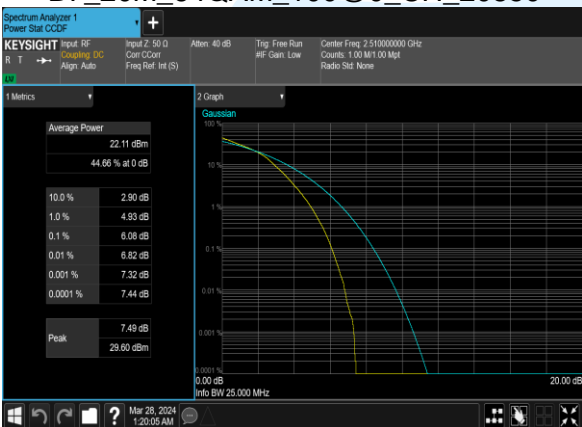
B7\_5M\_QPSK\_25@0\_CH\_21425



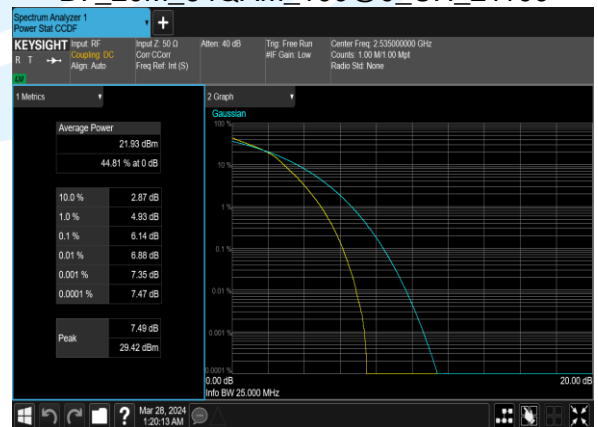
B7\_5M\_16QAM\_25@0\_CH\_21425



B7\_20M\_64QAM\_100@0\_CH\_20850



B7\_20M\_64QAM\_100@0\_CH\_21100



B7\_20M\_64QAM\_100@0\_CH\_21350



B7\_15M\_64QAM\_75@0\_CH\_20825



B7\_15M\_64QAM\_75@0\_CH\_21100



B7\_15M\_64QAM\_75@0\_CH\_21375



B7\_10M\_64QAM\_50@0\_CH\_20800



B7\_10M\_64QAM\_50@0\_CH\_21100



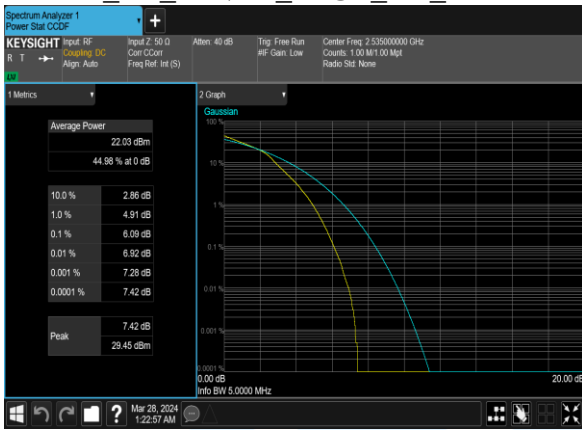
B7\_10M\_64QAM\_50@0\_CH\_21400



B7\_5M\_64QAM\_25@0\_CH\_20775



B7\_5M\_64QAM\_25@0\_CH\_21100



B7\_5M\_64QAM\_25@0\_CH\_21425



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UTTR-RF-FCC4G-V1.1

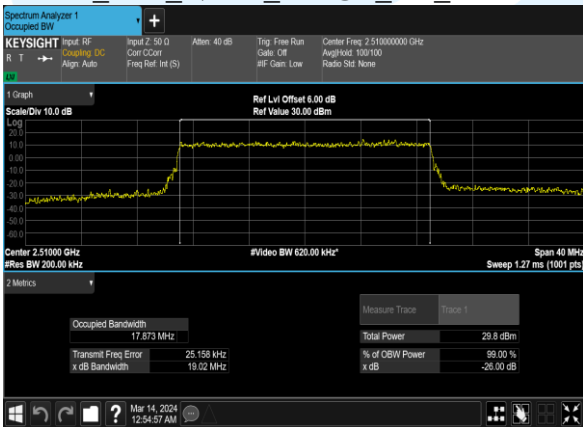
## Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.873	19.02
7	20.0	20850	2510.0	16QAM	100@0	17.904	19.44
7	20.0	21100	2535.0	QPSK	100@0	17.875	19.15
7	20.0	21100	2535.0	16QAM	100@0	17.914	19.37
7	20.0	21350	2560.0	QPSK	100@0	17.877	19.25
7	20.0	21350	2560.0	16QAM	100@0	17.879	19.19
7	15.0	20825	2507.5	QPSK	75@0	13.409	14.39
7	15.0	20825	2507.5	16QAM	75@0	13.422	14.45
7	15.0	21100	2535.0	QPSK	75@0	13.404	14.52
7	15.0	21100	2535.0	16QAM	75@0	13.423	14.35
7	15.0	21375	2562.5	QPSK	75@0	13.413	14.52
7	15.0	21375	2562.5	16QAM	75@0	13.410	14.64
7	10.0	20800	2505.0	QPSK	50@0	8.9439	9.743
7	10.0	20800	2505.0	16QAM	50@0	8.9410	9.731
7	10.0	21100	2535.0	QPSK	50@0	8.9445	9.614
7	10.0	21100	2535.0	16QAM	50@0	8.9479	9.586
7	10.0	21400	2565.0	QPSK	50@0	8.9463	9.675
7	10.0	21400	2565.0	16QAM	50@0	8.9347	9.692
7	5.0	20775	2502.5	QPSK	25@0	4.4608	4.871
7	5.0	20775	2502.5	16QAM	25@0	4.4565	4.785
7	5.0	21100	2535.0	QPSK	25@0	4.4600	4.887
7	5.0	21100	2535.0	16QAM	25@0	4.4729	4.851
7	5.0	21425	2567.5	QPSK	25@0	4.4524	4.875
7	5.0	21425	2567.5	16QAM	25@0	4.4672	4.887

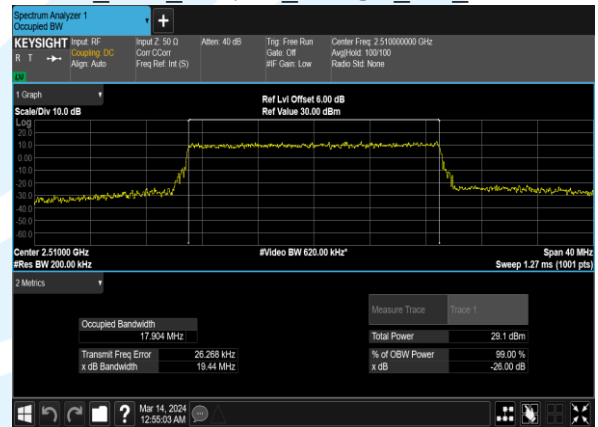
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	64QAM	100@0	17.875	19.23
7	20.0	21100	2535.0	64QAM	100@0	17.890	19.31
7	20.0	21350	2560.0	64QAM	100@0	17.891	19.09
7	15.0	20825	2507.5	64QAM	75@0	13.440	14.37
7	15.0	21100	2535.0	64QAM	75@0	13.428	14.36
7	15.0	21375	2562.5	64QAM	75@0	13.435	14.51
7	10.0	20800	2505.0	64QAM	50@0	8.9444	9.589
7	10.0	21100	2535.0	64QAM	50@0	8.9385	9.674
7	10.0	21400	2565.0	64QAM	50@0	8.9530	9.723
7	5.0	20775	2502.5	64QAM	25@0	4.4517	4.860
7	5.0	21100	2535.0	64QAM	25@0	4.4556	4.876
7	5.0	21425	2567.5	64QAM	25@0	4.4578	4.875

## Test Graphs

B7\_20M\_QPSK\_100@0\_CH\_20850

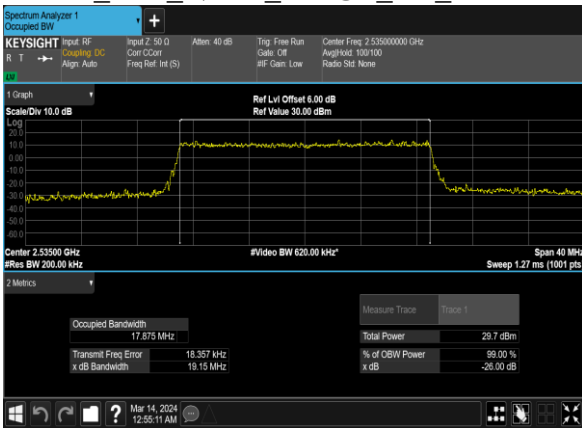


B7\_20M\_16QAM\_100@0\_CH\_20850

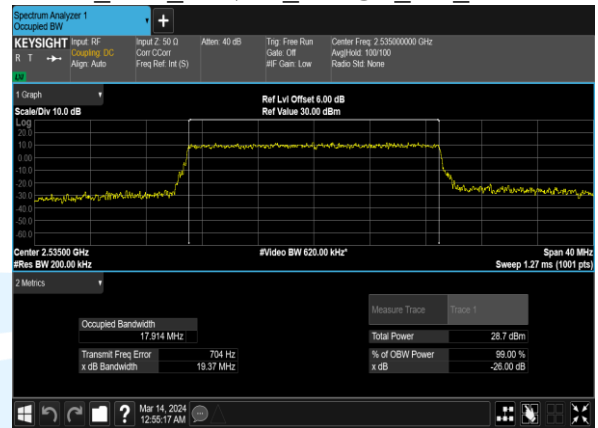




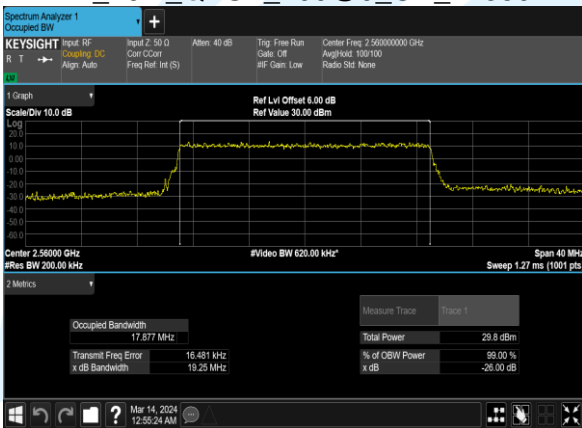
B7\_20M\_QPSK\_100@0\_CH\_21100



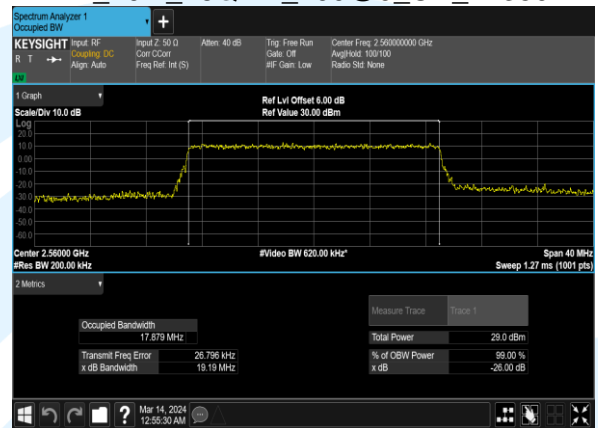
B7\_20M\_16QAM\_100@0\_CH\_21100



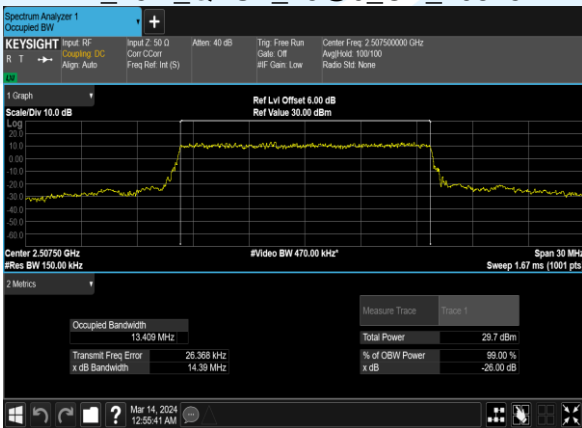
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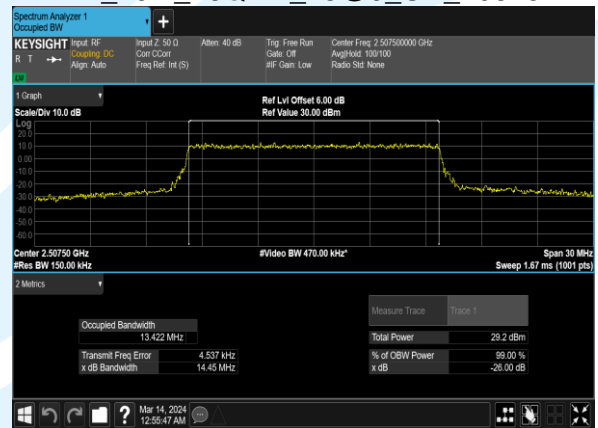
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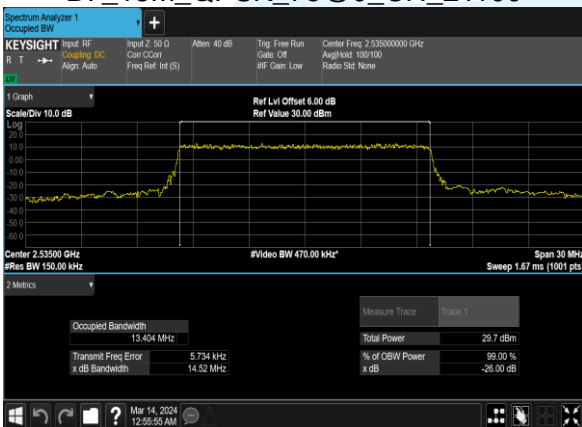
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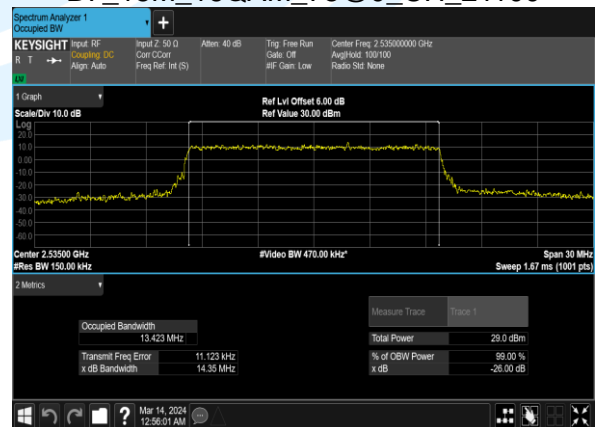
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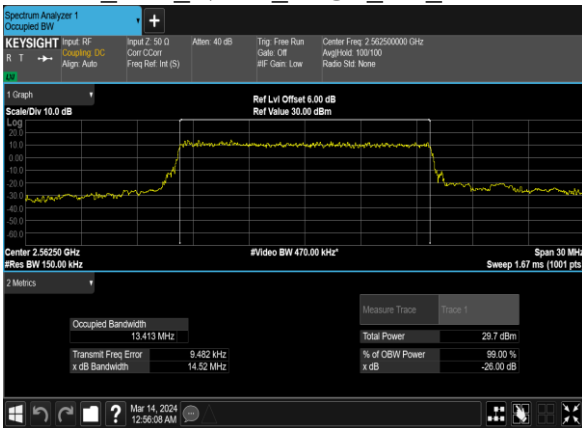
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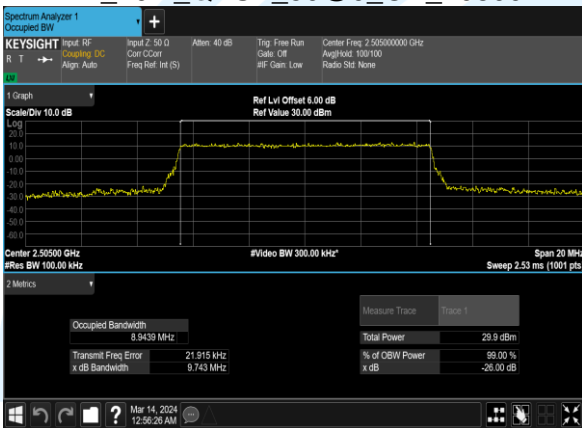
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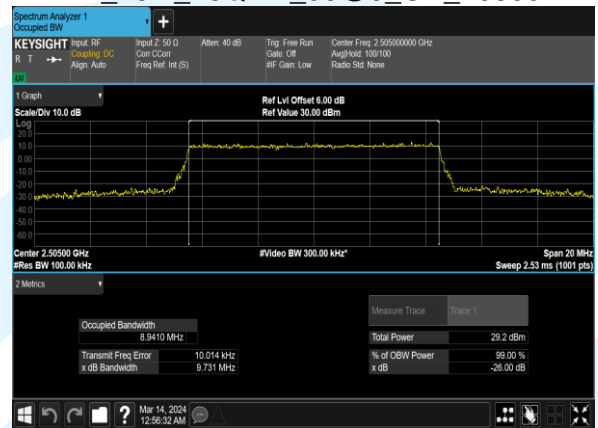
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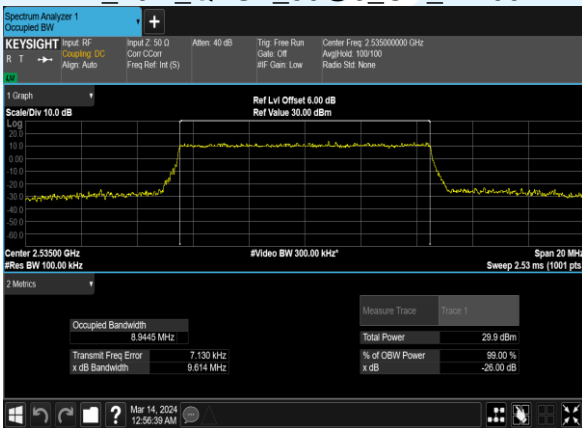
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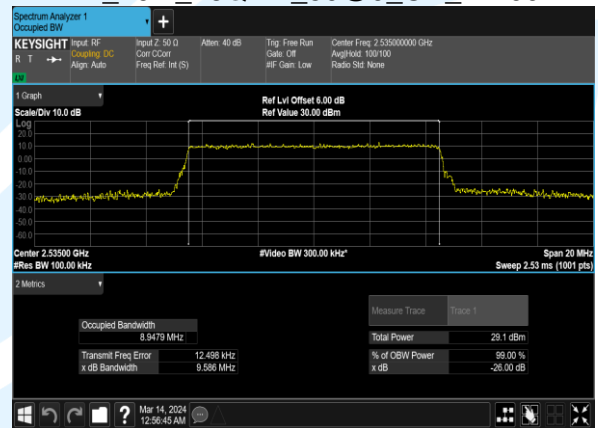
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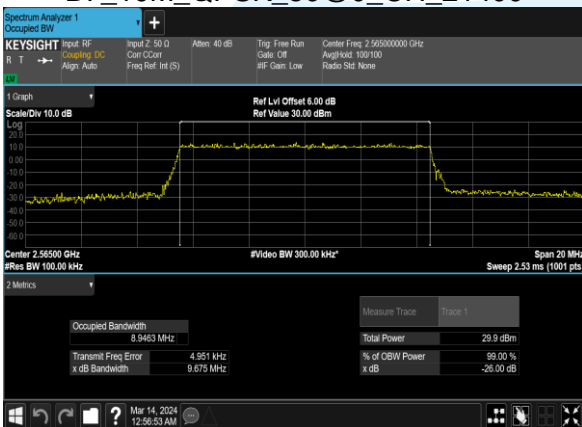
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