

B17\_10M\_QPSK\_1@0\_CH\_23800



B17\_10M\_16QAM\_1@0\_CH\_23800



B17\_5M\_QPSK\_1@0\_CH\_23755



B17\_5M\_16QAM\_1@0\_CH\_23755



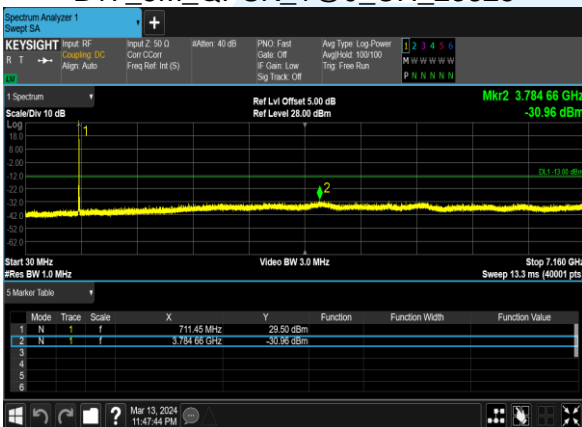
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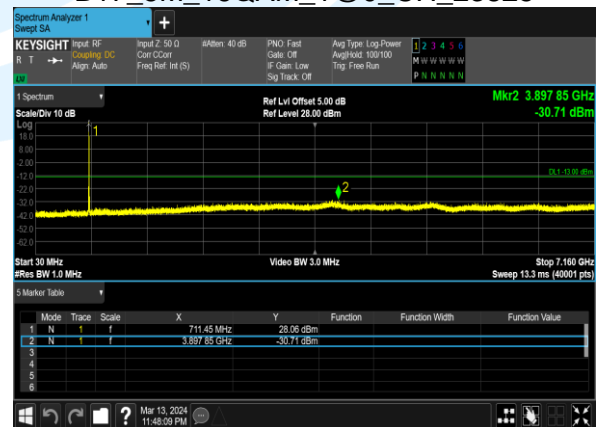
B17\_5M\_16QAM\_1@0\_CH\_23790



B17\_5M\_QPSK\_1@0\_CH\_23825



B17\_5M\_16QAM\_1@0\_CH\_23825



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UTTR-RF-FCC4G-V1.1

B17\_10M\_64QAM\_1@0\_CH\_23780



B17\_10M\_64QAM\_1@0\_CH\_23790



B17\_10M\_64QAM\_1@0\_CH\_23800



B17\_5M\_64QAM\_1@0\_CH\_23755



B17\_5M\_64QAM\_1@0\_CH\_23790



B17\_5M\_64QAM\_1@0\_CH\_23825



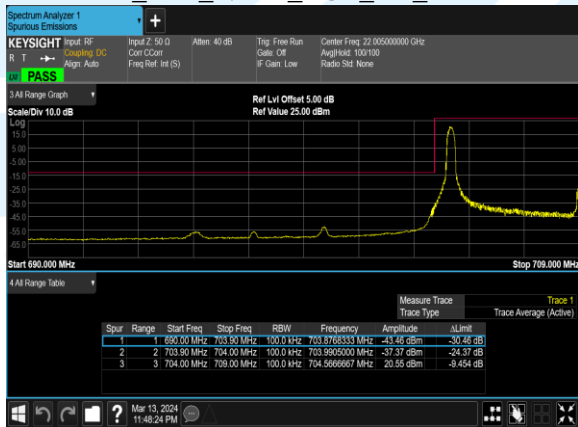
## Conducted Band Edge

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
17	10.0	23780	709.0	QPSK	1@0	see graph	PASS
17	10.0	23780	709.0	QPSK	50@0	see graph	PASS
17	10.0	23780	709.0	16QAM	1@0	see graph	PASS
17	10.0	23780	709.0	16QAM	50@0	see graph	PASS
17	10.0	23800	711.0	QPSK	1@49	see graph	PASS
17	10.0	23800	711.0	QPSK	50@0	see graph	PASS
17	10.0	23800	711.0	16QAM	1@49	see graph	PASS
17	10.0	23800	711.0	16QAM	50@0	see graph	PASS
17	5.0	23755	706.5	QPSK	1@0	see graph	PASS
17	5.0	23755	706.5	QPSK	25@0	see graph	PASS
17	5.0	23755	706.5	16QAM	1@0	see graph	PASS
17	5.0	23755	706.5	16QAM	25@0	see graph	PASS
17	5.0	23825	713.5	QPSK	1@24	see graph	PASS
17	5.0	23825	713.5	QPSK	25@0	see graph	PASS
17	5.0	23825	713.5	16QAM	1@24	see graph	PASS
17	5.0	23825	713.5	16QAM	25@0	see graph	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
17	10.0	23780	709.0	64QAM	1@0	see graph	PASS
17	10.0	23780	709.0	64QAM	50@0	see graph	PASS
17	10.0	23800	711.0	64QAM	1@49	see graph	PASS
17	10.0	23800	711.0	64QAM	50@0	see graph	PASS
17	5.0	23755	706.5	64QAM	1@0	see graph	PASS
17	5.0	23755	706.5	64QAM	25@0	see graph	PASS
17	5.0	23825	713.5	64QAM	1@24	see graph	PASS
17	5.0	23825	713.5	64QAM	25@0	see graph	PASS

## Test Graphs

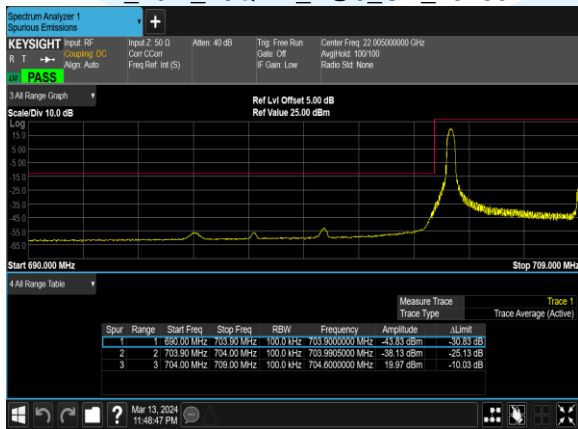
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B17\_10M\_QPSK\_50@0\_CH\_23780



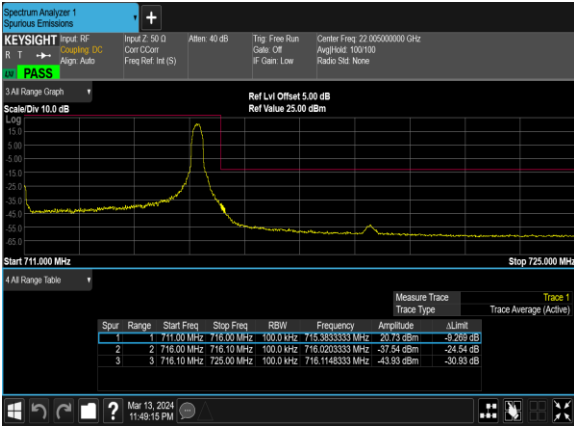
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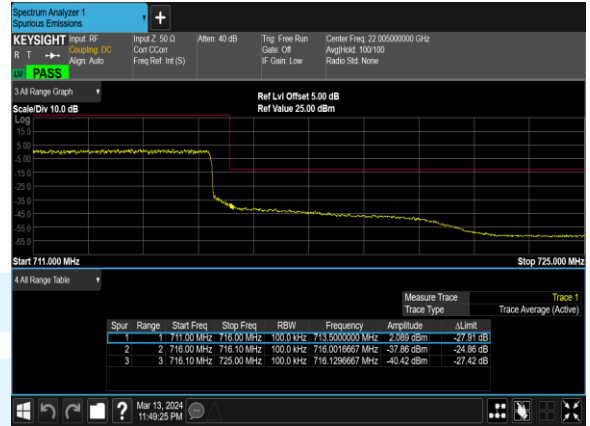
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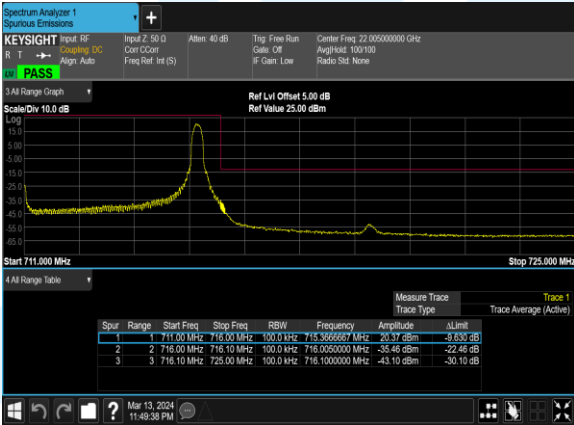
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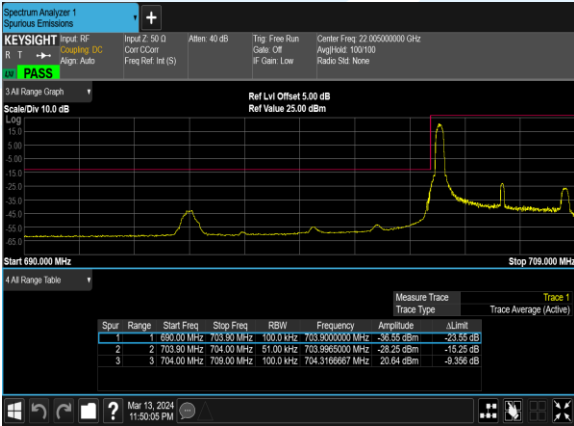
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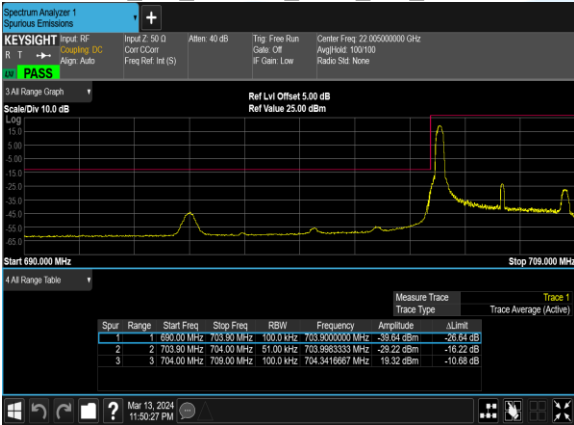
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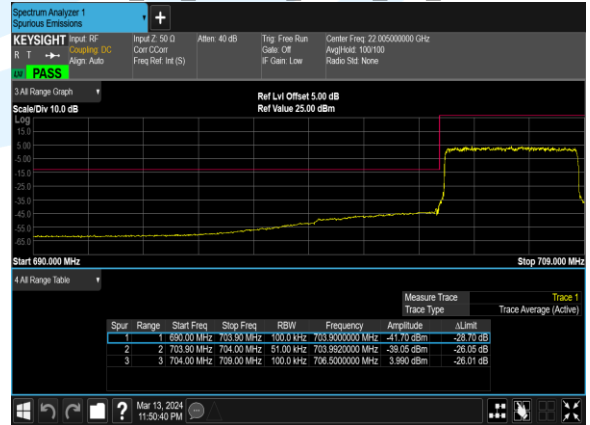
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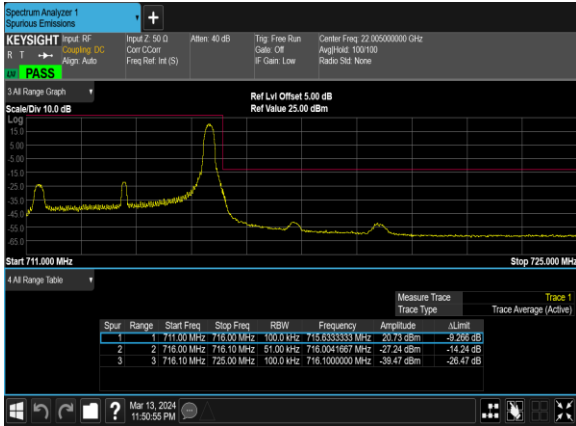
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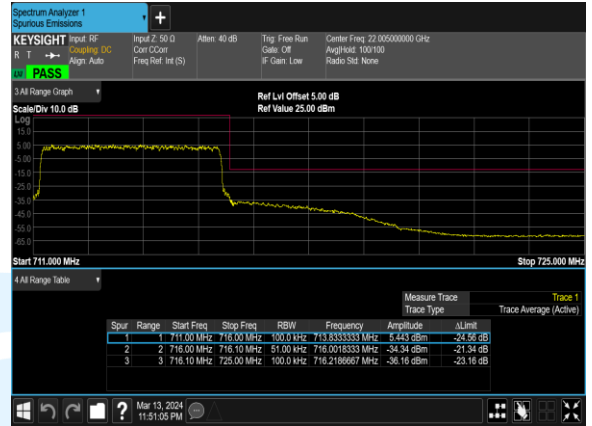
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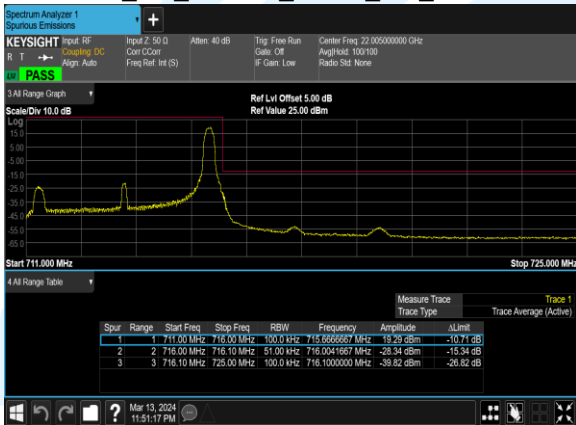
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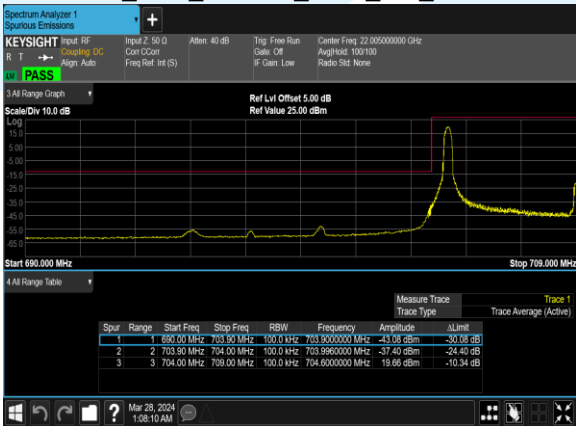
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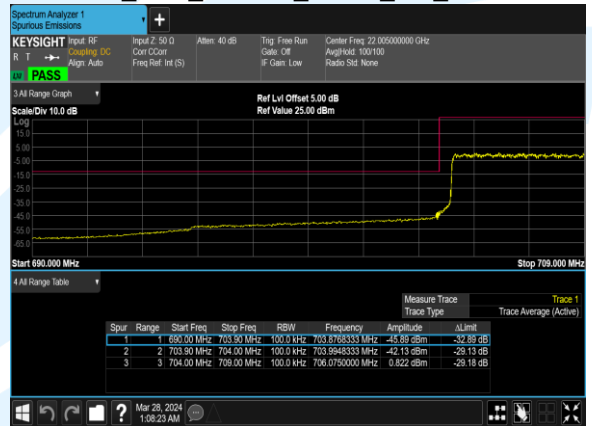
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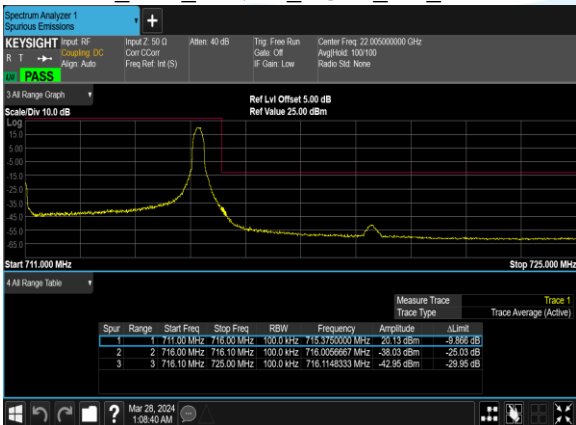
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B17\_10M\_64QAM\_50@0\_CH\_23780



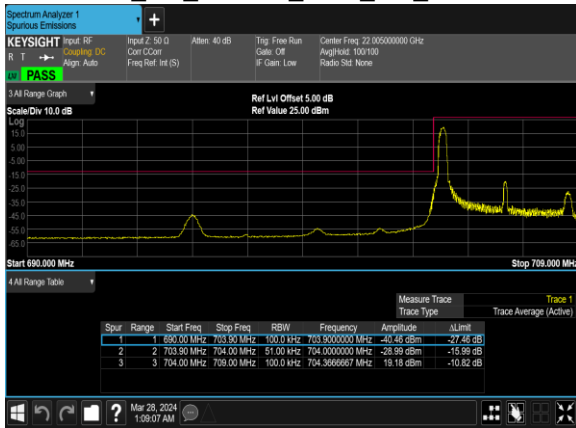
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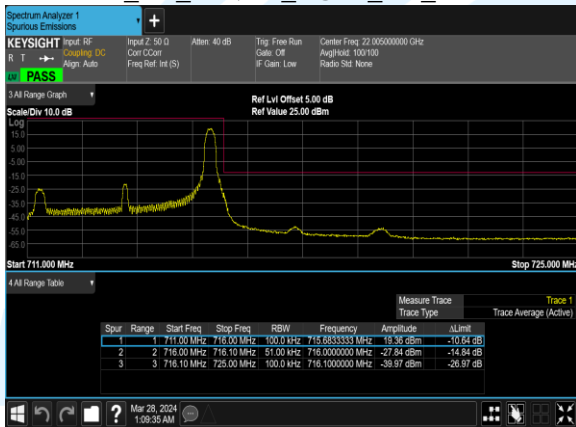
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B17\_5M\_64QAM\_25@0\_CH\_23755



B17\_5M\_64QAM\_1@24\_CH\_23825



B17\_5M\_64QAM\_25@0\_CH\_23825





### A.8 LTE BAND 66

#### Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	20.0	132072	1720.0	QPSK	100@0	5.87	13	PASS
66	20.0	132072	1720.0	16QAM	100@0	6.51	13	PASS
66	20.0	132322	1745.0	QPSK	100@0	5.64	13	PASS
66	20.0	132322	1745.0	16QAM	100@0	6.36	13	PASS
66	20.0	132572	1770.0	QPSK	100@0	5.61	13	PASS
66	20.0	132572	1770.0	16QAM	100@0	6.36	13	PASS
66	15.0	132047	1717.5	QPSK	75@0	5.56	13	PASS
66	15.0	132047	1717.5	16QAM	75@0	6.34	13	PASS
66	15.0	132322	1745.0	QPSK	75@0	5.41	13	PASS
66	15.0	132322	1745.0	16QAM	75@0	6.15	13	PASS
66	15.0	132597	1772.5	QPSK	75@0	5.38	13	PASS
66	15.0	132597	1772.5	16QAM	75@0	6.12	13	PASS
66	10.0	132022	1715.0	QPSK	50@0	5.77	13	PASS
66	10.0	132022	1715.0	16QAM	50@0	6.50	13	PASS
66	10.0	132322	1745.0	QPSK	50@0	5.60	13	PASS
66	10.0	132322	1745.0	16QAM	50@0	6.28	13	PASS
66	10.0	132622	1775.0	QPSK	50@0	5.55	13	PASS
66	10.0	132622	1775.0	16QAM	50@0	6.30	13	PASS
66	5.0	131997	1712.5	QPSK	25@0	5.71	13	PASS
66	5.0	131997	1712.5	16QAM	25@0	6.42	13	PASS
66	5.0	132322	1745.0	QPSK	25@0	5.57	13	PASS
66	5.0	132322	1745.0	16QAM	25@0	6.22	13	PASS
66	5.0	132647	1777.5	QPSK	25@0	5.49	13	PASS
66	5.0	132647	1777.5	16QAM	25@0	6.17	13	PASS
66	3.0	131987	1711.5	QPSK	15@0	5.70	13	PASS
66	3.0	131987	1711.5	16QAM	15@0	6.51	13	PASS
66	3.0	132322	1745.0	QPSK	15@0	5.43	13	PASS
66	3.0	132322	1745.0	16QAM	15@0	6.25	13	PASS
66	3.0	132657	1778.5	QPSK	15@0	5.50	13	PASS
66	3.0	132657	1778.5	16QAM	15@0	6.22	13	PASS
66	1.4	131979	1710.7	QPSK	6@0	5.64	13	PASS
66	1.4	131979	1710.7	16QAM	6@0	6.42	13	PASS
66	1.4	132322	1745.0	QPSK	6@0	5.50	13	PASS
66	1.4	132322	1745.0	16QAM	6@0	6.22	13	PASS
66	1.4	132665	1779.3	QPSK	6@0	5.44	13	PASS
66	1.4	132665	1779.3	16QAM	6@0	6.20	13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	20.0	132072	1720.0	64QAM	100@0	6.53	13	PASS
66	20.0	132322	1745.0	64QAM	100@0	6.30	13	PASS
66	20.0	132572	1770.0	64QAM	100@0	6.28	13	PASS
66	15.0	132047	1717.5	64QAM	75@0	6.31	13	PASS
66	15.0	132322	1745.0	64QAM	75@0	6.14	13	PASS
66	15.0	132597	1772.5	64QAM	75@0	6.10	13	PASS
66	10.0	132022	1715.0	64QAM	50@0	6.51	13	PASS
66	10.0	132322	1745.0	64QAM	50@0	6.28	13	PASS
66	10.0	132622	1775.0	64QAM	50@0	6.21	13	PASS
66	5.0	131997	1712.5	64QAM	25@0	6.40	13	PASS
66	5.0	132322	1745.0	64QAM	25@0	6.22	13	PASS
66	5.0	132647	1777.5	64QAM	25@0	6.10	13	PASS
66	3.0	131987	1711.5	64QAM	15@0	6.53	13	PASS
66	3.0	132322	1745.0	64QAM	15@0	6.24	13	PASS
66	3.0	132657	1778.5	64QAM	15@0	6.21	13	PASS
66	1.4	131979	1710.7	64QAM	6@0	6.39	13	PASS
66	1.4	132322	1745.0	64QAM	6@0	6.24	13	PASS
66	1.4	132665	1779.3	64QAM	6@0	6.15	13	PASS

## Test Graphs

B66\_20M\_QPSK\_100@0\_CH\_132072



B66\_20M\_16QAM\_100@0\_CH\_132072



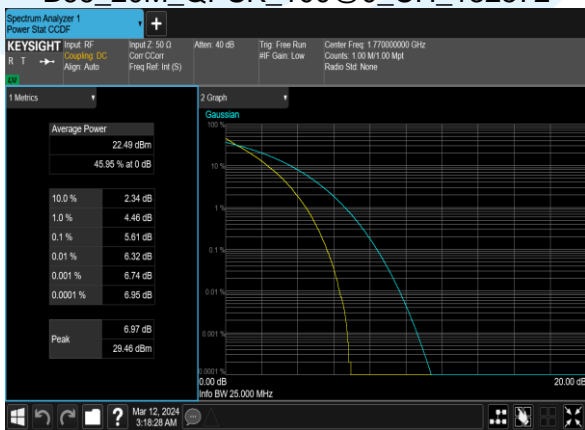
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B66\_20M\_16QAM\_100@0\_CH\_132322



B66\_20M\_QPSK\_100@0\_CH\_132572



B66\_20M\_16QAM\_100@0\_CH\_132572





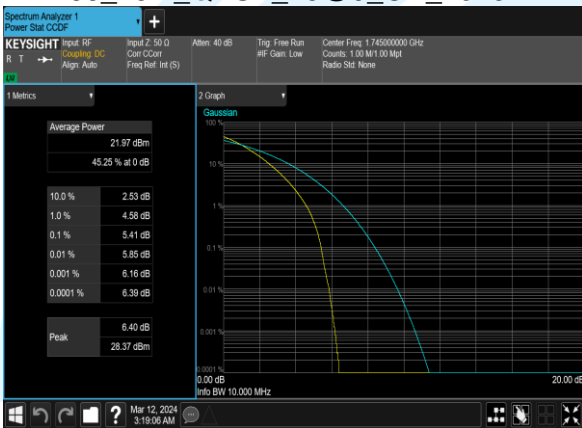
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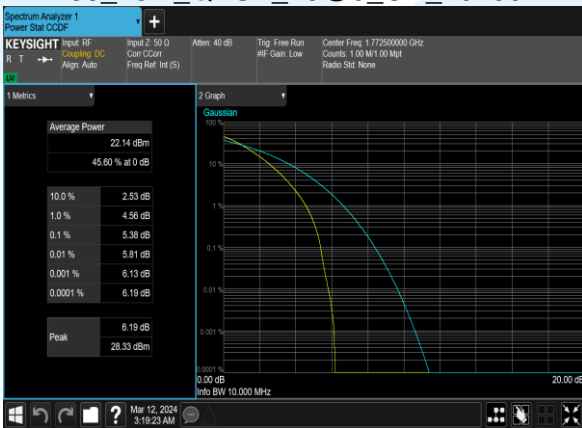
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B66\_15M\_16QAM\_75@0\_CH\_132322



B66\_15M\_QPSK\_75@0\_CH\_132597



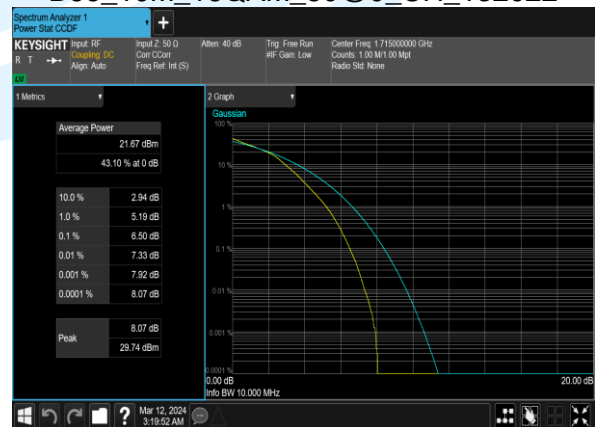
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B66\_10M\_QPSK\_50@0\_CH\_132022



B66\_10M\_16QAM\_50@0\_CH\_132022



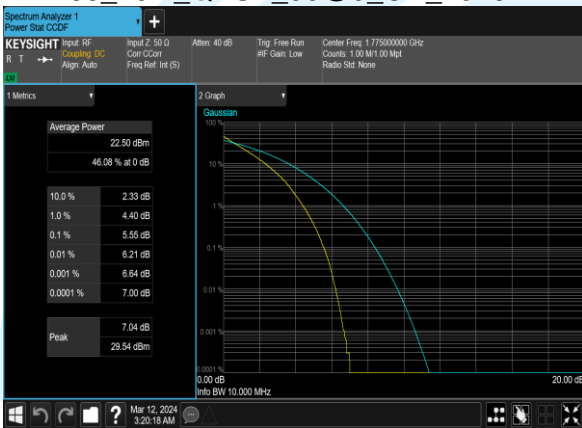
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B66\_10M\_QPSK\_50@0\_CH\_132622



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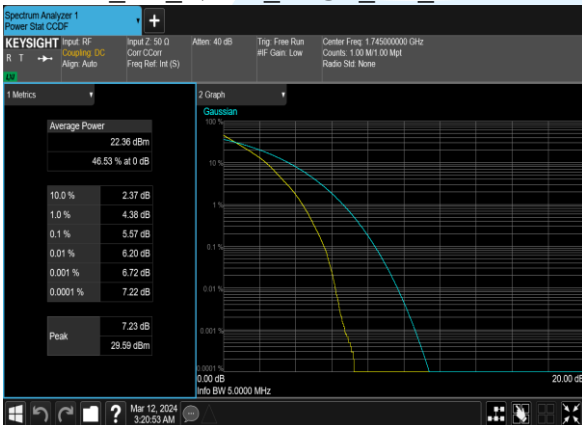
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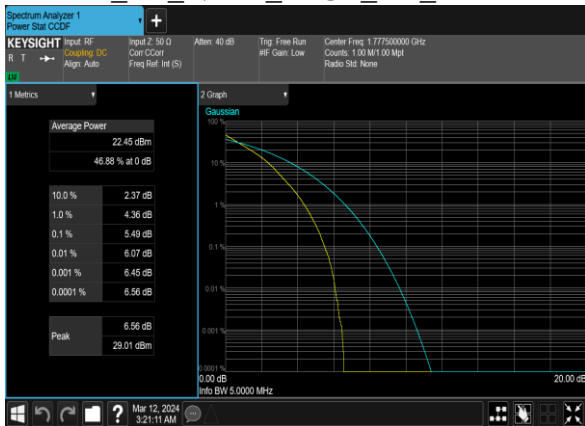
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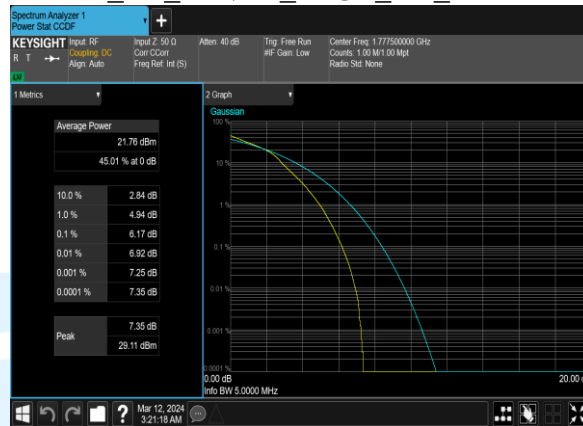
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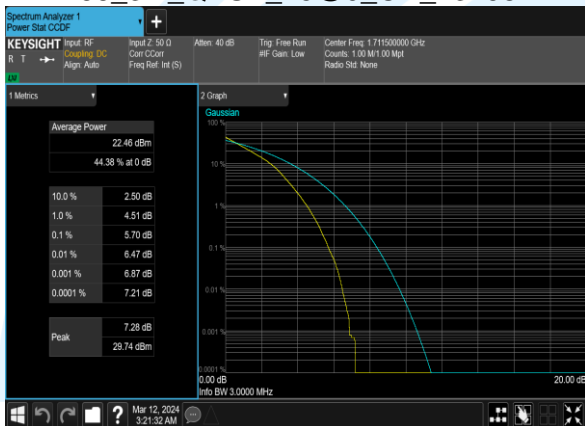
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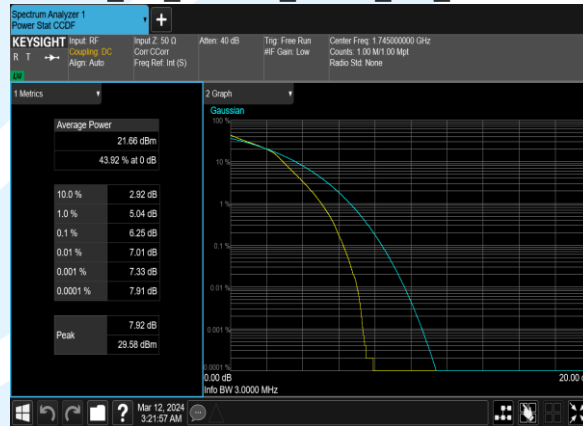
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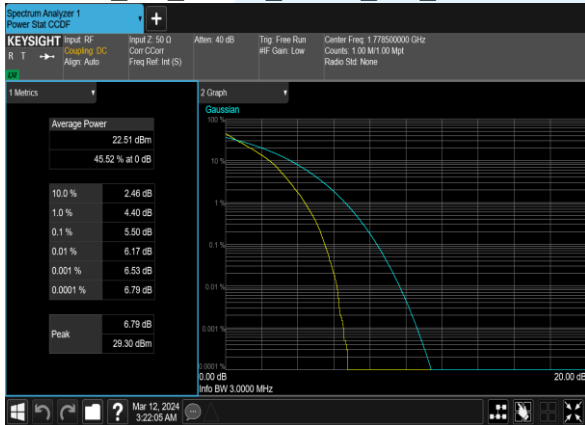
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B66\_3M\_QPSK\_15@0\_CH\_132657



B66\_3M\_16QAM\_15@0\_CH\_132657



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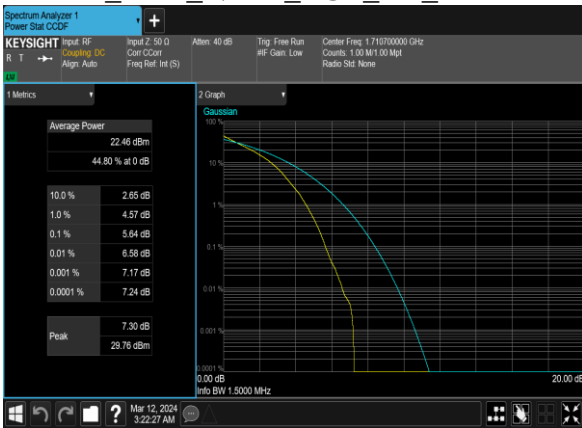
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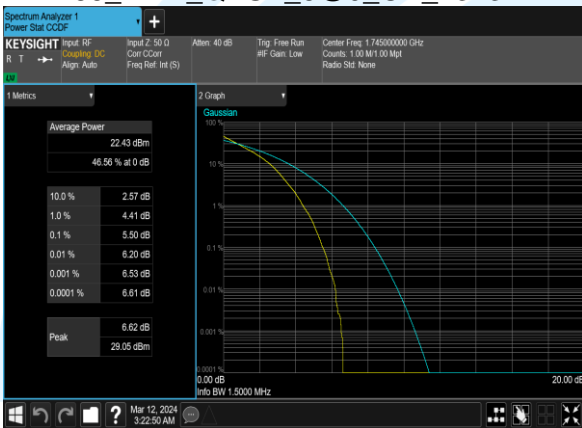
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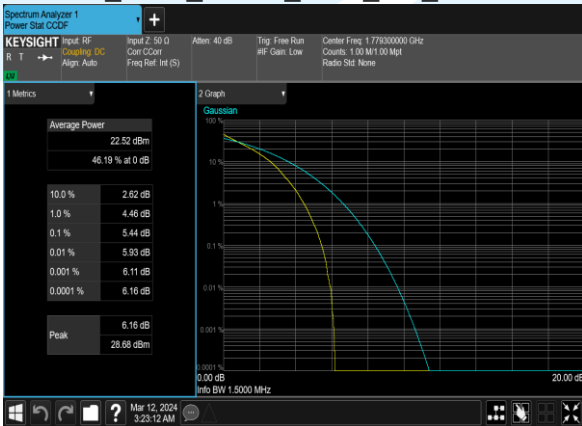
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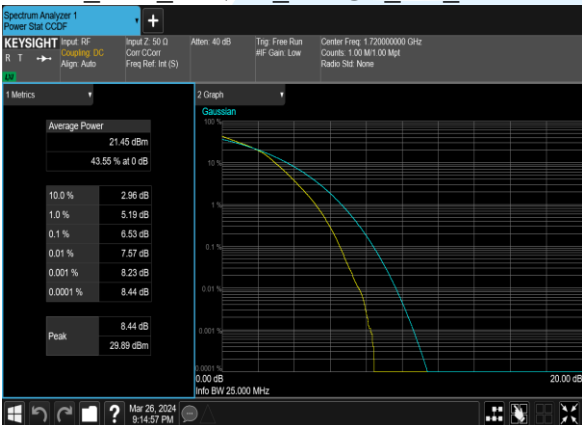
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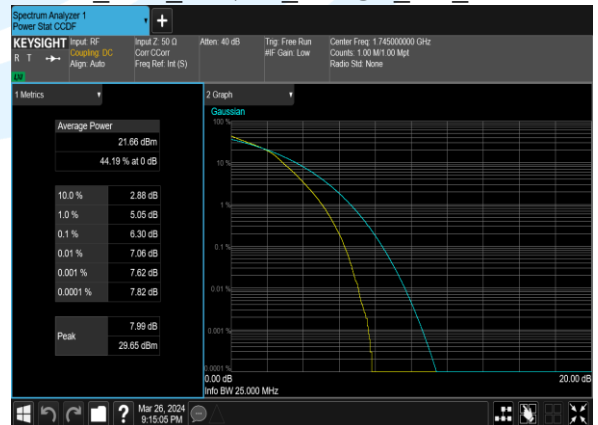
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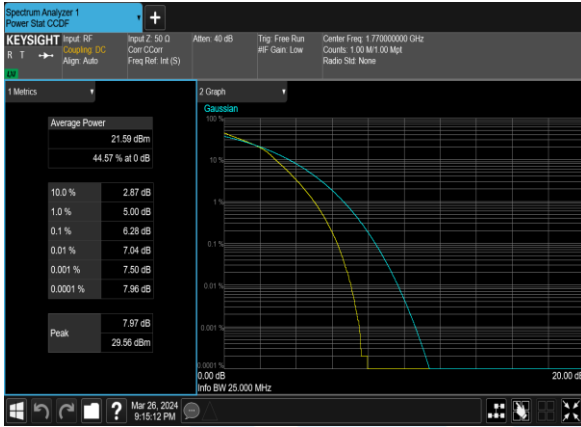
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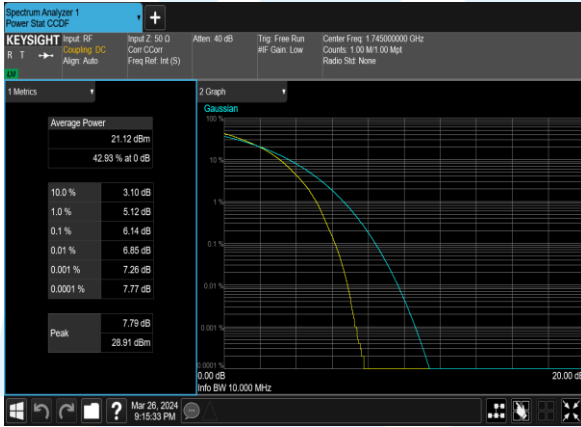
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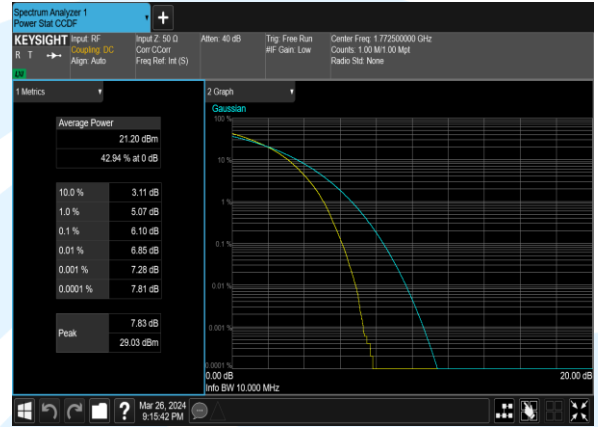
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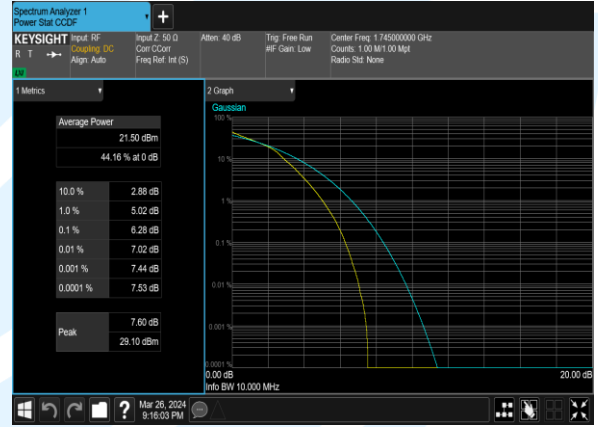
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B66\_10M\_64QAM\_50@0\_CH\_132022



B66\_10M\_64QAM\_50@0\_CH\_132322



B66\_10M\_64QAM\_50@0\_CH\_132622



B66\_5M\_64QAM\_25@0\_CH\_131997



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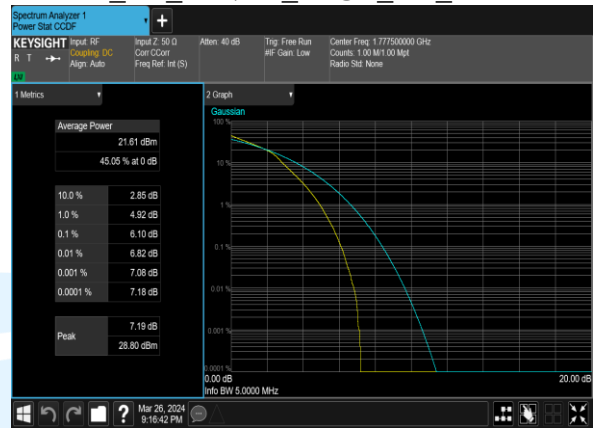
<http://www.uttlab.com>

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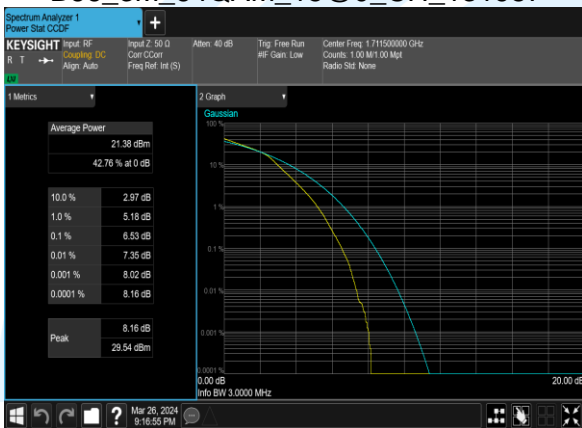
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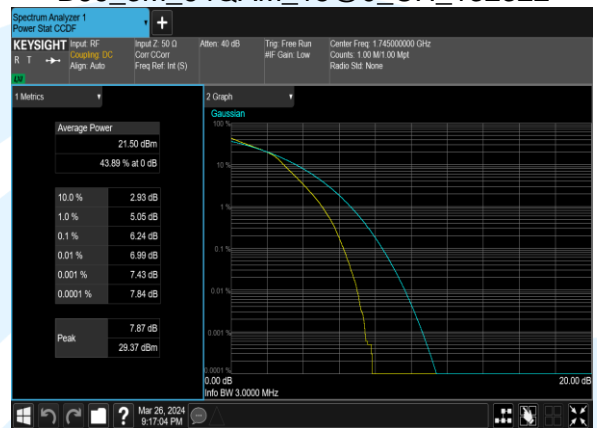
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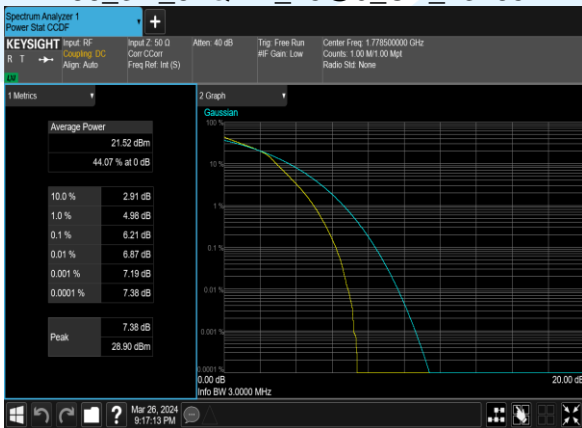
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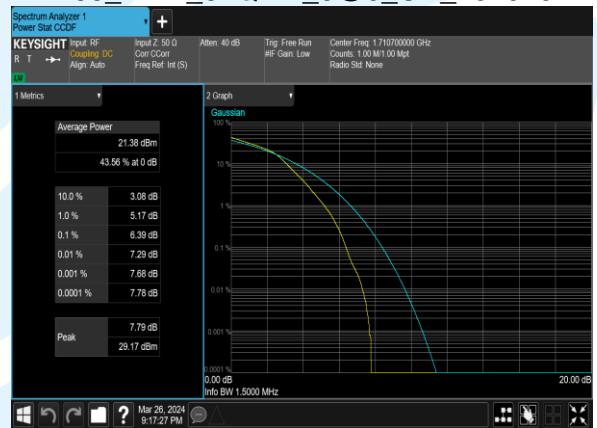
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B66\_1.4M\_64QAM\_6@0\_CH\_132322



B66\_1.4M\_64QAM\_6@0\_CH\_132665





**Occupied Bandwidth**

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
66	20.0	132072	1720.0	QPSK	100@0	17.938	19.26
66	20.0	132072	1720.0	16QAM	100@0	17.879	19.23
66	20.0	132322	1745.0	QPSK	100@0	17.904	19.08
66	20.0	132322	1745.0	16QAM	100@0	17.891	19.16
66	20.0	132572	1770.0	QPSK	100@0	17.917	19.53
66	20.0	132572	1770.0	16QAM	100@0	17.854	19.25
66	15.0	132047	1717.5	QPSK	75@0	13.430	14.43
66	15.0	132047	1717.5	16QAM	75@0	13.424	14.40
66	15.0	132322	1745.0	QPSK	75@0	13.400	14.60
66	15.0	132322	1745.0	16QAM	75@0	13.420	14.34
66	15.0	132597	1772.5	QPSK	75@0	13.422	14.56
66	15.0	132597	1772.5	16QAM	75@0	13.429	14.71
66	10.0	132022	1715.0	QPSK	50@0	8.9641	9.677
66	10.0	132022	1715.0	16QAM	50@0	8.9421	9.628
66	10.0	132322	1745.0	QPSK	50@0	8.9510	9.713
66	10.0	132322	1745.0	16QAM	50@0	8.9597	9.708
66	10.0	132622	1775.0	QPSK	50@0	8.9355	9.618
66	10.0	132622	1775.0	16QAM	50@0	8.9451	9.724
66	5.0	131997	1712.5	QPSK	25@0	4.4619	4.853
66	5.0	131997	1712.5	16QAM	25@0	4.4566	4.876
66	5.0	132322	1745.0	QPSK	25@0	4.4607	4.874
66	5.0	132322	1745.0	16QAM	25@0	4.4619	4.850
66	5.0	132647	1777.5	QPSK	25@0	4.4615	4.871
66	5.0	132647	1777.5	16QAM	25@0	4.4549	4.893
66	3.0	131987	1711.5	QPSK	15@0	2.6808	2.937
66	3.0	131987	1711.5	16QAM	15@0	2.6768	2.953
66	3.0	132322	1745.0	QPSK	15@0	2.6891	2.992
66	3.0	132322	1745.0	16QAM	15@0	2.6829	2.973
66	3.0	132657	1778.5	QPSK	15@0	2.6842	2.955
66	3.0	132657	1778.5	16QAM	15@0	2.6850	2.965
66	1.4	131979	1710.7	QPSK	6@0	1.0774	1.222
66	1.4	131979	1710.7	16QAM	6@0	1.0804	1.228
66	1.4	132322	1745.0	QPSK	6@0	1.0787	1.218
66	1.4	132322	1745.0	16QAM	6@0	1.0766	1.213
66	1.4	132665	1779.3	QPSK	6@0	1.0815	1.218
66	1.4	132665	1779.3	16QAM	6@0	1.0806	1.215

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
66	20.0	132072	1720.0	64QAM	100@0	17.904	19.09
66	20.0	132322	1745.0	64QAM	100@0	17.890	19.27
66	20.0	132572	1770.0	64QAM	100@0	17.855	18.91
66	15.0	132047	1717.5	64QAM	75@0	13.412	14.54
66	15.0	132322	1745.0	64QAM	75@0	13.428	14.56
66	15.0	132597	1772.5	64QAM	75@0	13.376	14.49
66	10.0	132022	1715.0	64QAM	50@0	8.9623	9.639
66	10.0	132322	1745.0	64QAM	50@0	8.9321	9.567
66	10.0	132622	1775.0	64QAM	50@0	8.9319	9.625
66	5.0	131997	1712.5	64QAM	25@0	4.4688	4.872
66	5.0	132322	1745.0	64QAM	25@0	4.4663	4.882
66	5.0	132647	1777.5	64QAM	25@0	4.4560	4.825
66	3.0	131987	1711.5	64QAM	15@0	2.6833	2.965
66	3.0	132322	1745.0	64QAM	15@0	2.6850	2.948
66	3.0	132657	1778.5	64QAM	15@0	2.6828	2.971
66	1.4	131979	1710.7	64QAM	6@0	1.0800	1.224
66	1.4	132322	1745.0	64QAM	6@0	1.0755	1.207
66	1.4	132665	1779.3	64QAM	6@0	1.0805	1.230

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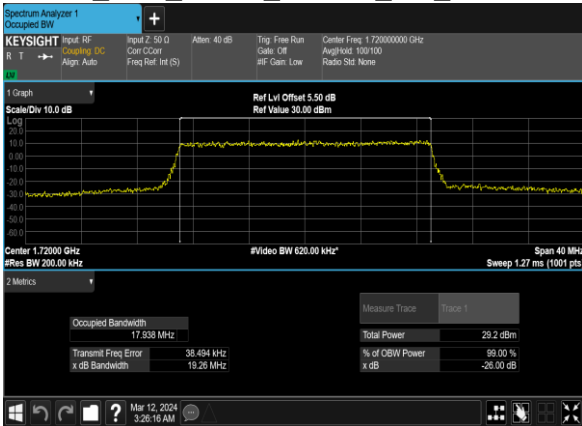
E-mail: info@uttlab.com

<http://www.uttlab.com>

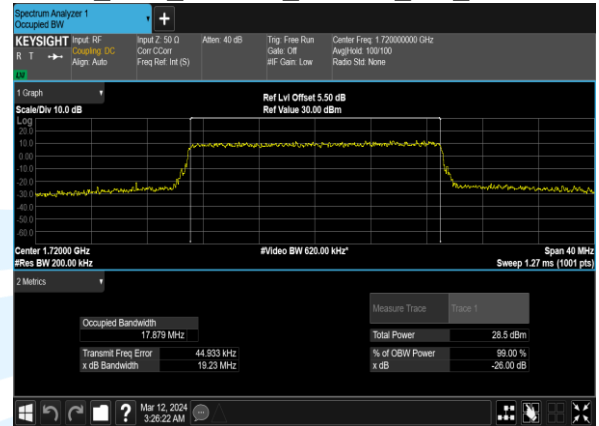
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## Test Graphs

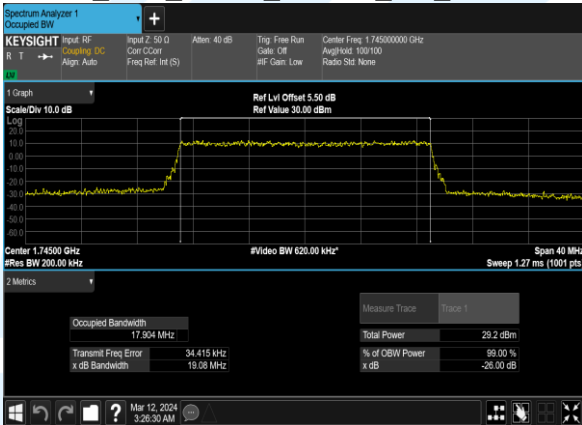
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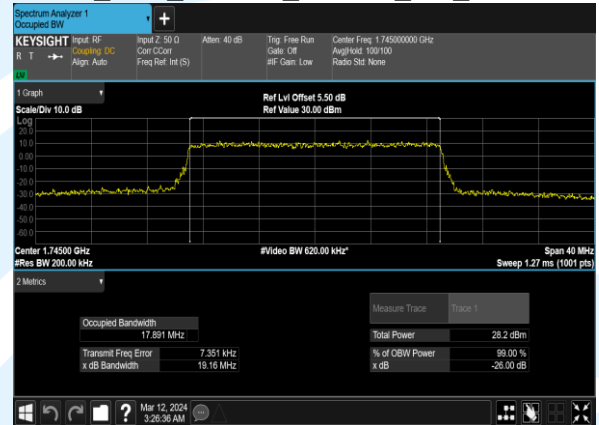
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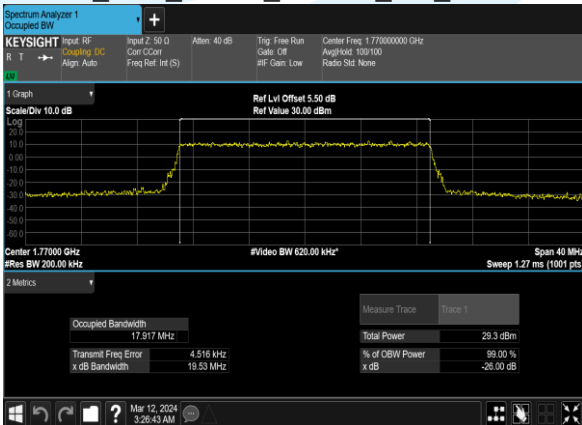
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B66\_20M\_16QAM\_100@0\_CH\_132322



B66\_20M\_QPSK\_100@0\_CH\_132572



B66\_20M\_16QAM\_100@0\_CH\_132572

