

B5 1.4M QPSK 6@0 CH 20643



B5 1.4M 16QAM 6@0 CH 20643



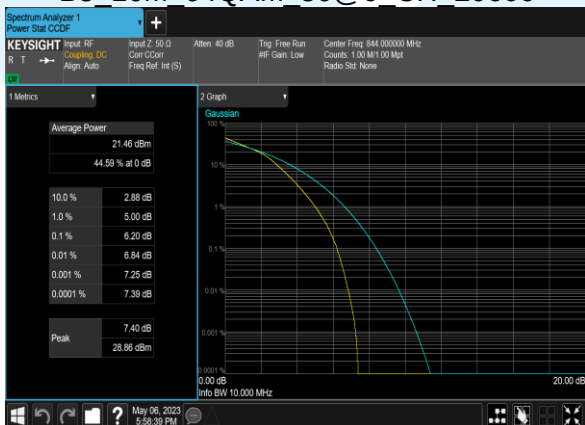
B5 10M 64QAM 50@0 CH 20450



B5 10M 64QAM 50@0 CH 20525



B5 10M 64QAM 50@0 CH 20600



B5 5M 64QAM 25@0 CH 20425



B5 5M 64QAM 25@0 CH 20525



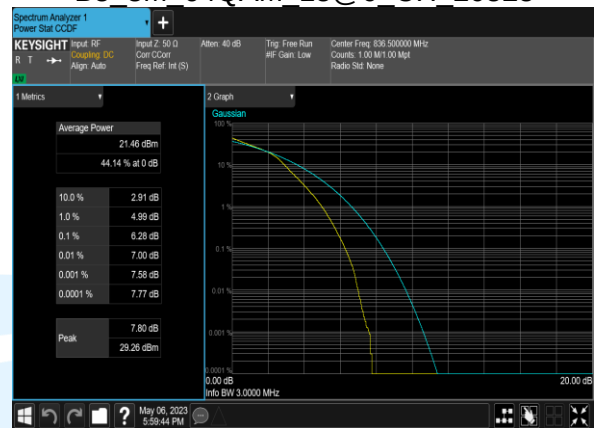
B5 5M 64QAM 25@0 CH 20625



B5 3M 64QAM 15@0 CH 20415



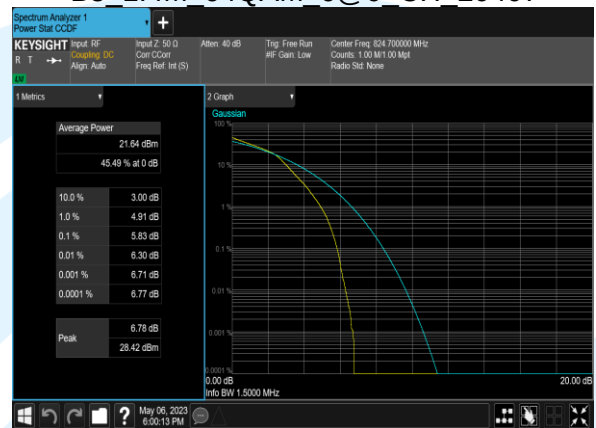
B5 3M 64QAM 15@0 CH 20525



B5 3M 64QAM 15@0 CH 20635



B5 1.4M 64QAM 6@0 CH 20407



B5 1.4M 64QAM 6@0 CH 20525



B5 1.4M 64QAM 6@0 CH 20643



Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
5	10.0	20450	829.0	QPSK	50@0	8.9238	9.478
5	10.0	20450	829.0	16QAM	50@0	8.9265	9.482
5	10.0	20525	836.5	QPSK	50@0	8.9159	9.469
5	10.0	20525	836.5	16QAM	50@0	8.9269	9.372
5	10.0	20600	844.0	QPSK	50@0	8.9353	9.557
5	10.0	20600	844.0	16QAM	50@0	8.9331	9.488
5	5.0	20425	826.5	QPSK	25@0	4.4552	4.813
5	5.0	20425	826.5	16QAM	25@0	4.4512	4.803
5	5.0	20525	836.5	QPSK	25@0	4.4634	4.770
5	5.0	20525	836.5	16QAM	25@0	4.4584	4.784
5	5.0	20625	846.5	QPSK	25@0	4.4599	4.825
5	5.0	20625	846.5	16QAM	25@0	4.4648	4.792
5	3.0	20415	825.5	QPSK	15@0	2.6765	2.877
5	3.0	20415	825.5	16QAM	15@0	2.6679	2.901
5	3.0	20525	836.5	QPSK	15@0	2.6734	2.897
5	3.0	20525	836.5	16QAM	15@0	2.6654	2.874
5	3.0	20635	847.5	QPSK	15@0	2.6782	2.891
5	3.0	20635	847.5	16QAM	15@0	2.6707	2.917
5	1.4	20407	824.7	QPSK	6@0	1.0813	1.233
5	1.4	20407	824.7	16QAM	6@0	1.0793	1.233
5	1.4	20525	836.5	QPSK	6@0	1.0801	1.236
5	1.4	20525	836.5	16QAM	6@0	1.0806	1.255
5	1.4	20643	848.3	QPSK	6@0	1.0788	1.251
5	1.4	20643	848.3	16QAM	6@0	1.0761	1.212

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
5	10.0	20450	829.0	64QAM	50@0	8.9335	9.516
5	10.0	20525	836.5	64QAM	50@0	8.9263	9.379
5	10.0	20600	844.0	64QAM	50@0	8.9330	9.539
5	5.0	20425	826.5	64QAM	25@0	4.4617	4.828
5	5.0	20525	836.5	64QAM	25@0	4.4569	4.805
5	5.0	20625	846.5	64QAM	25@0	4.4698	4.820
5	3.0	20415	825.5	64QAM	15@0	2.6717	2.888
5	3.0	20525	836.5	64QAM	15@0	2.6703	2.894
5	3.0	20635	847.5	64QAM	15@0	2.6716	2.893
5	1.4	20407	824.7	64QAM	6@0	1.0759	1.220
5	1.4	20525	836.5	64QAM	6@0	1.0798	1.261
5	1.4	20643	848.3	64QAM	6@0	1.0777	1.218

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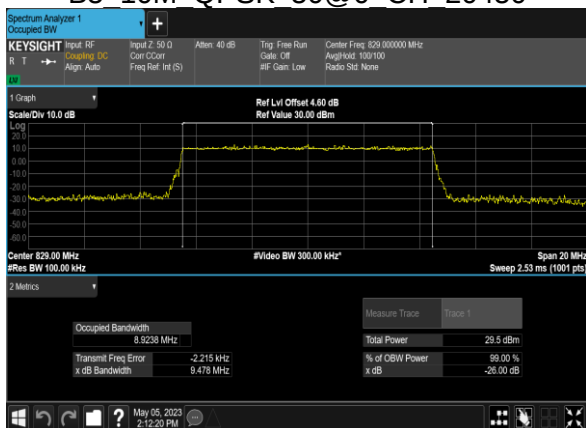
E-mail: info@uttlab.com

<http://www.uttlab.com>

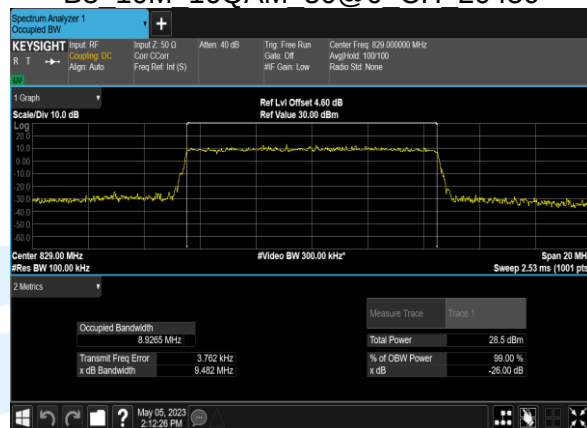
UTTR-RF-FCC4G-V1.1

Test Graphs

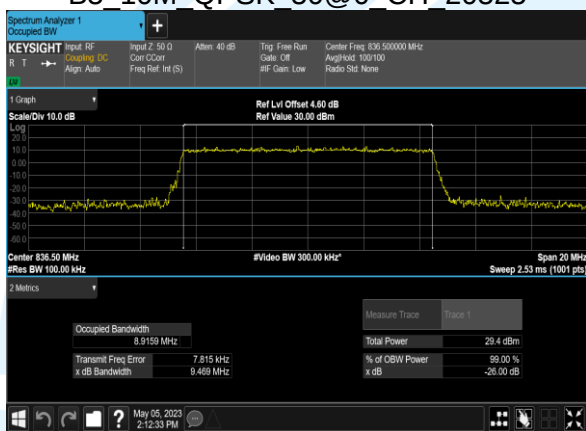
B5 10M QPSK 50@0 CH 20450



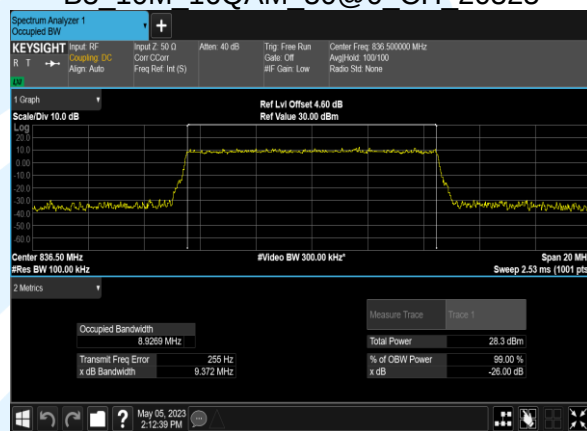
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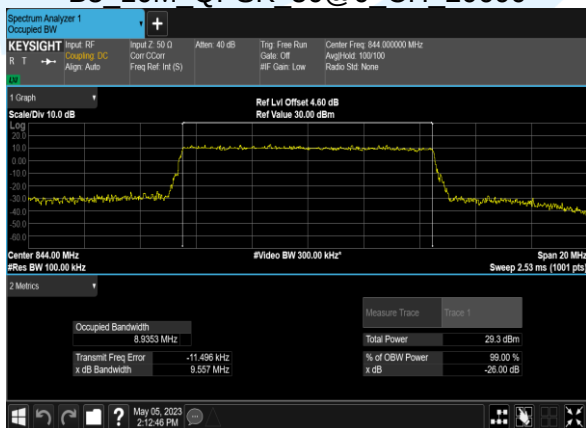
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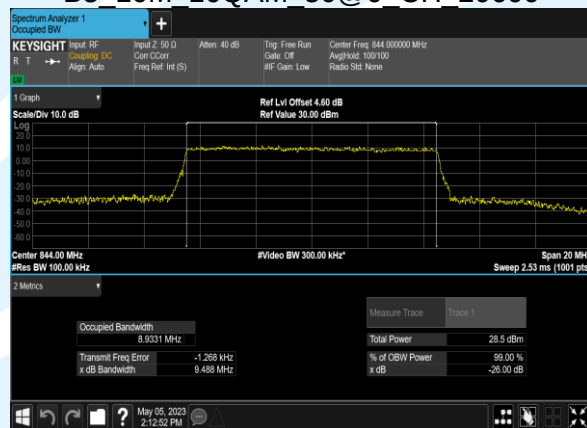
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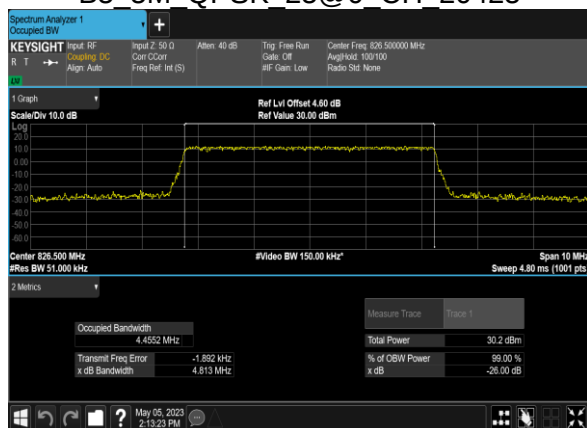
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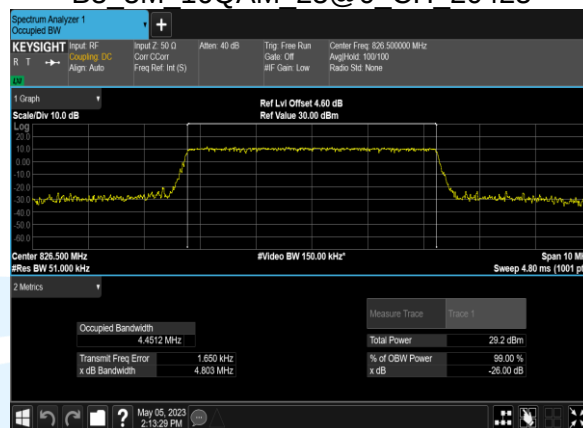
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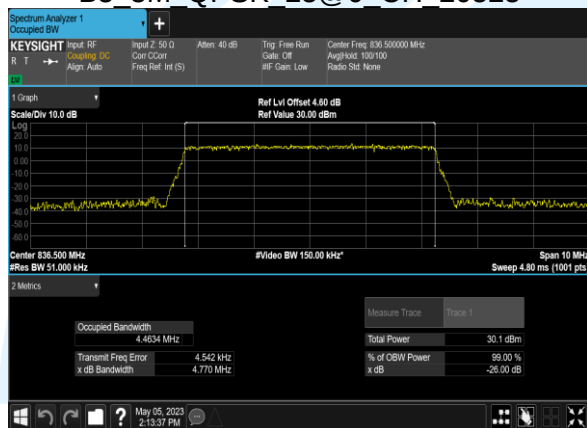
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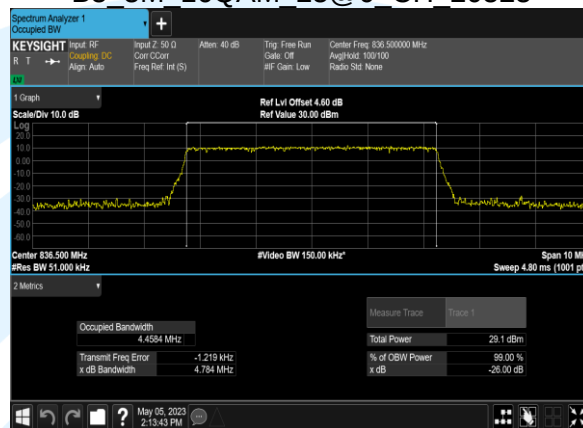
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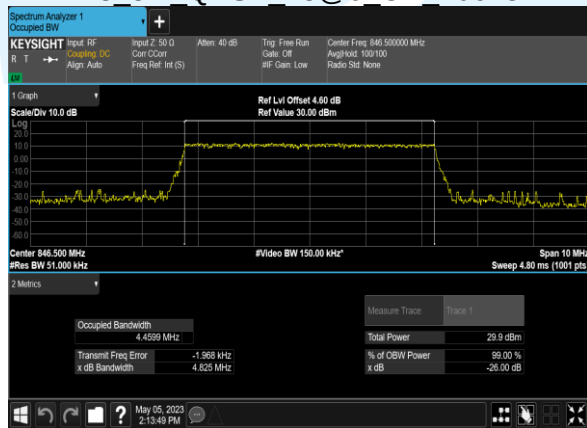
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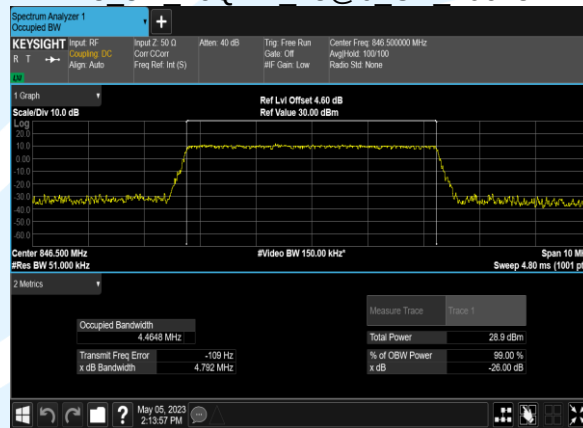
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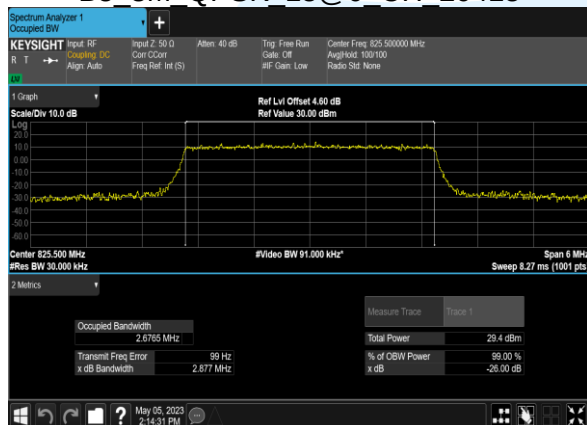
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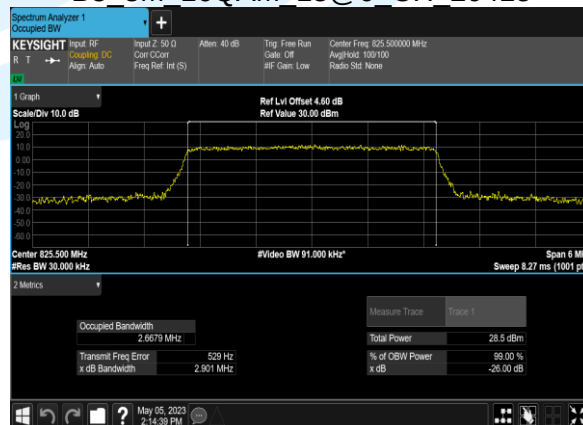
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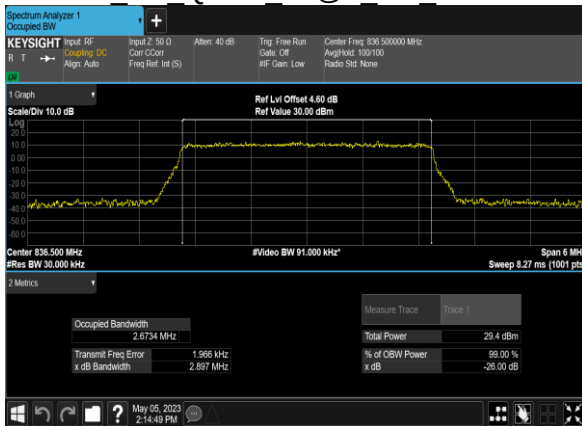
B5 3M QPSK 15@0 CH 20415



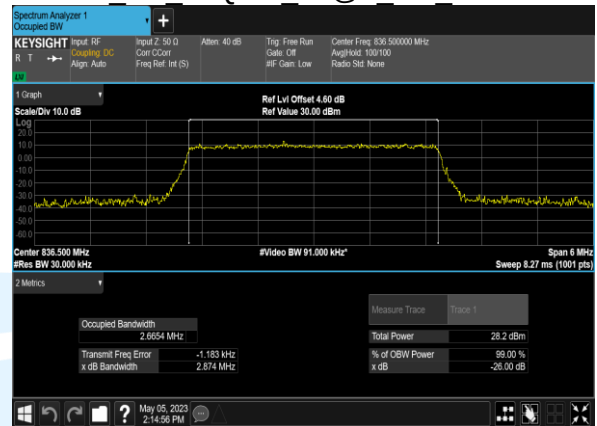
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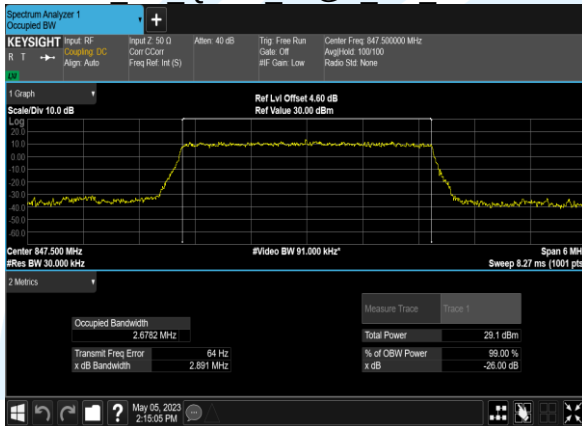
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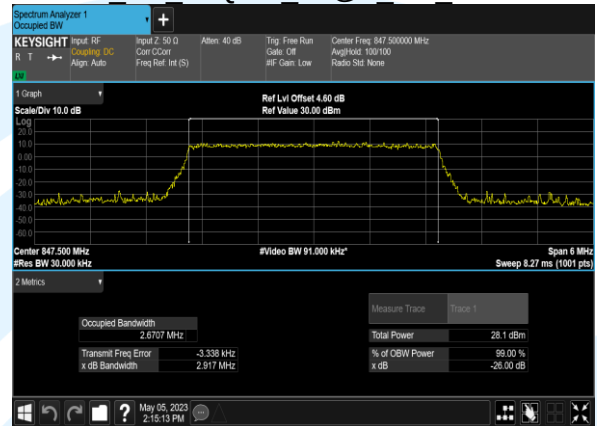
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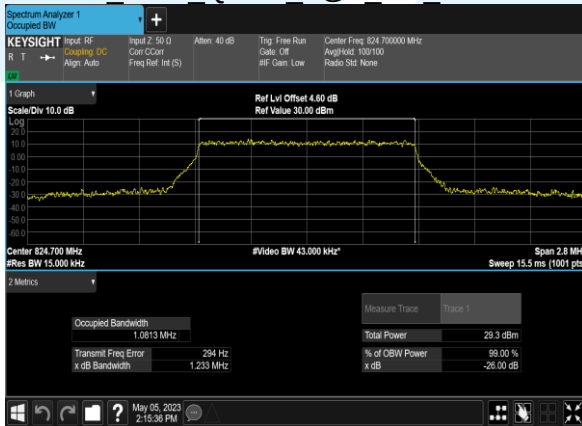
B5 3M QPSK 15@0 CH 20635



B5 3M 16QAM 15@0 CH 20635



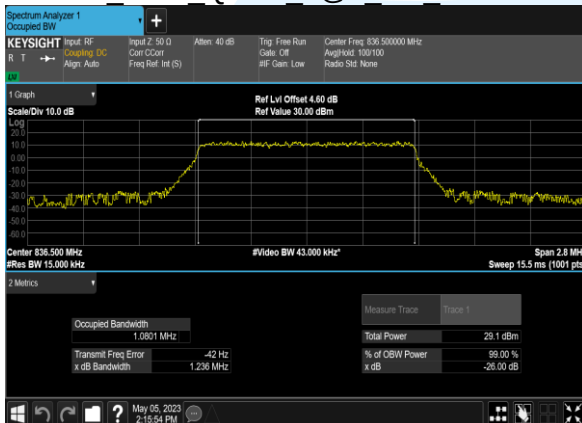
B5 1.4M QPSK 6@0 CH 20407



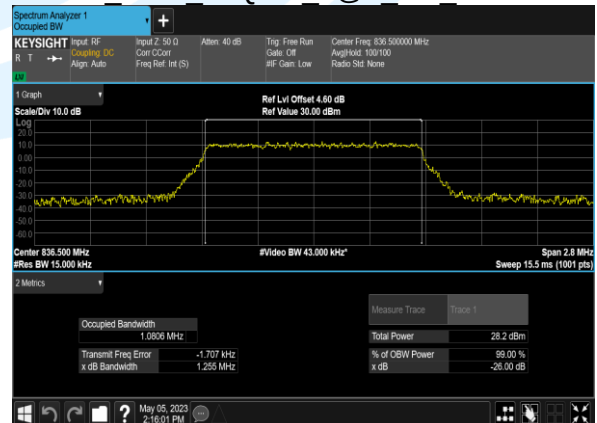
B5 1.4M 16QAM 6@0 CH 20407



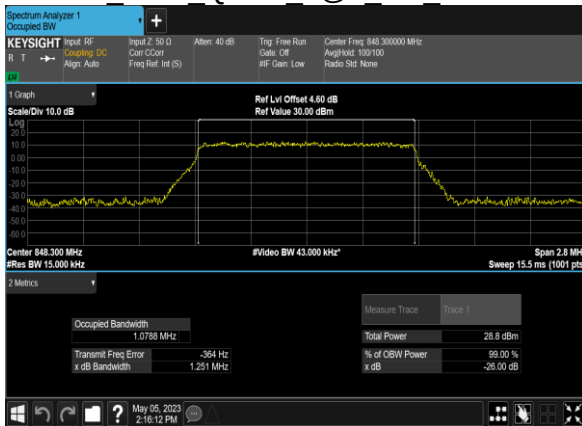
B5 1.4M QPSK 6@0 CH 20525



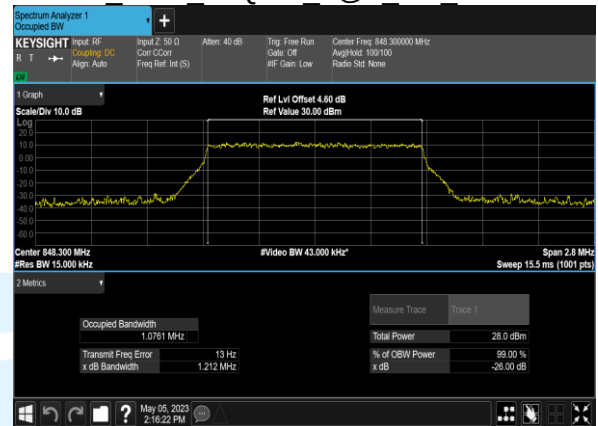
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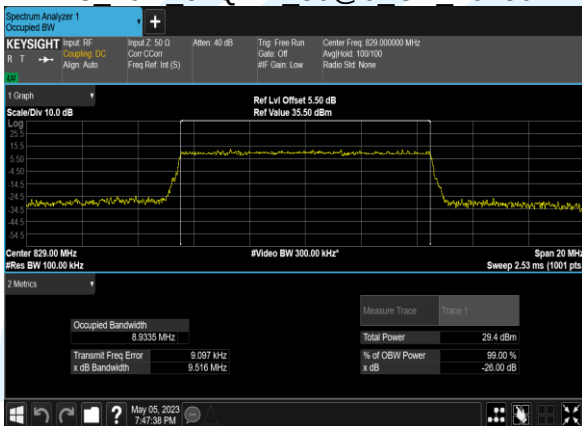
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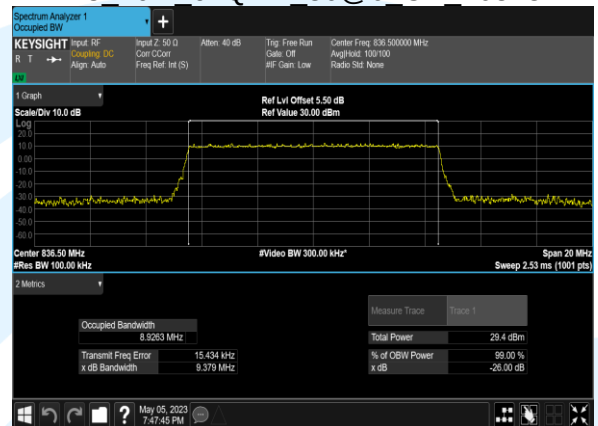
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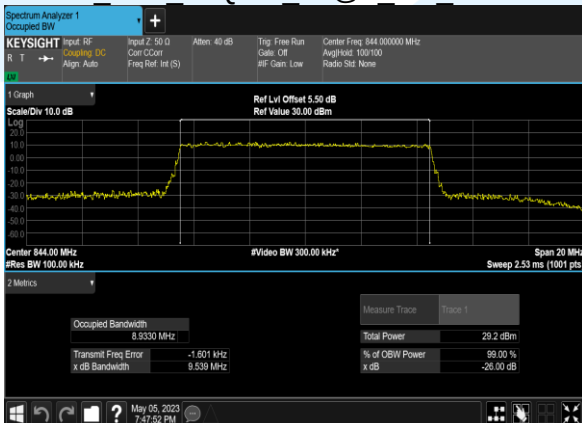
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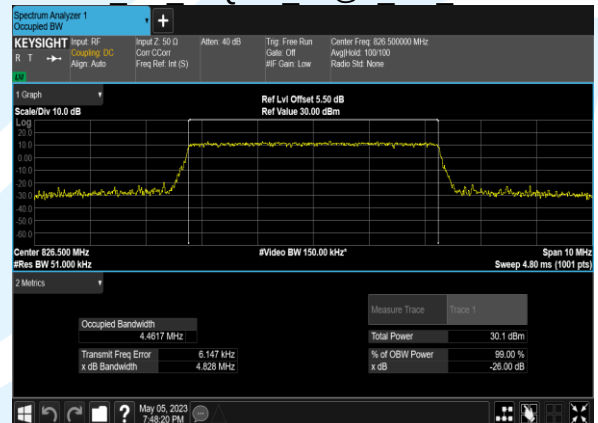
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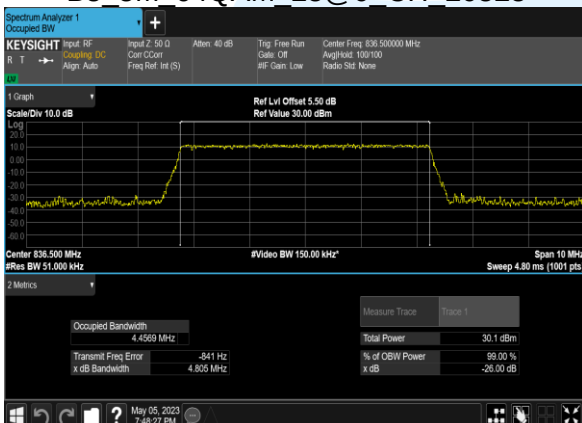
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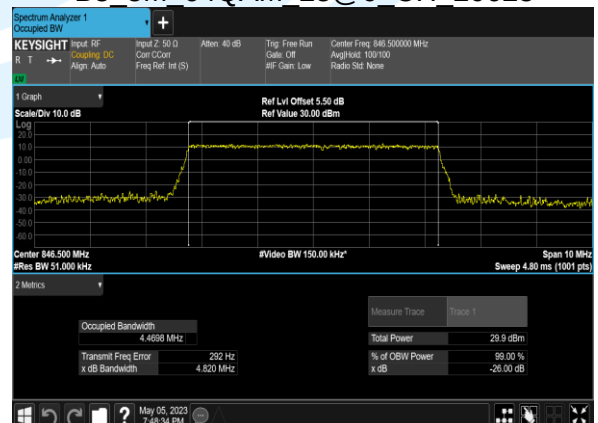
B5 5M 64QAM 25@0 CH 20425



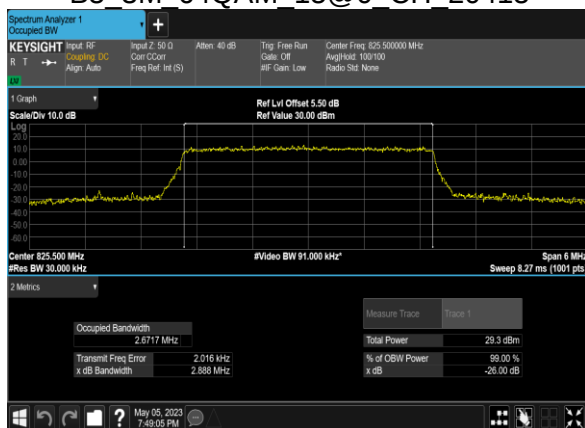
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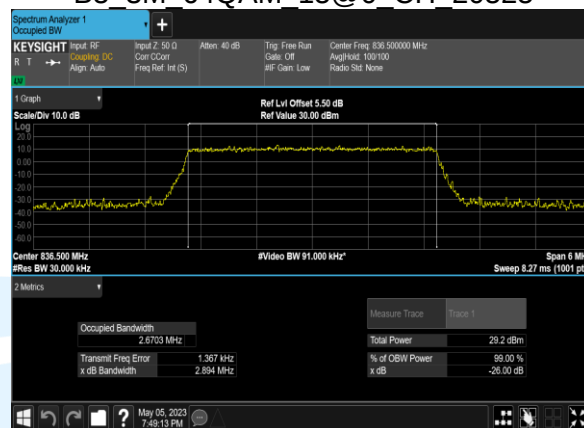
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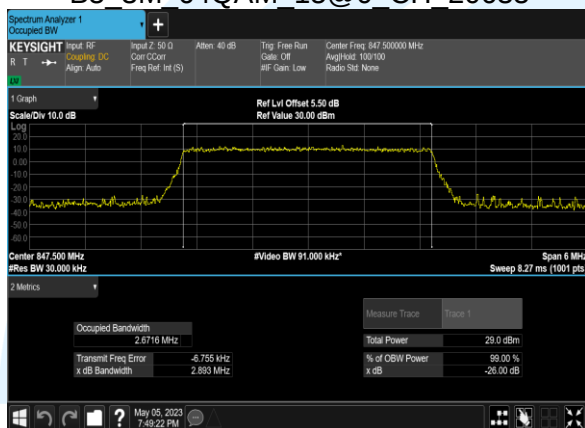
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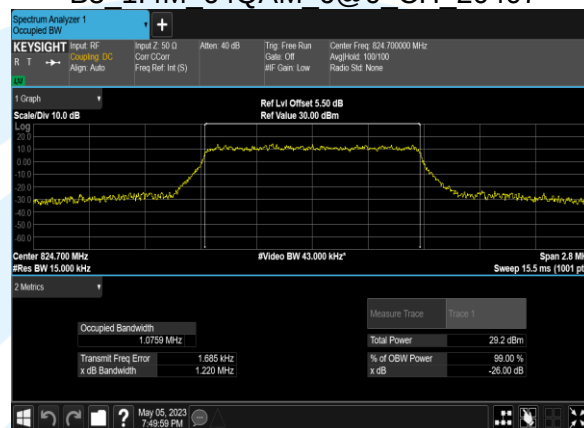
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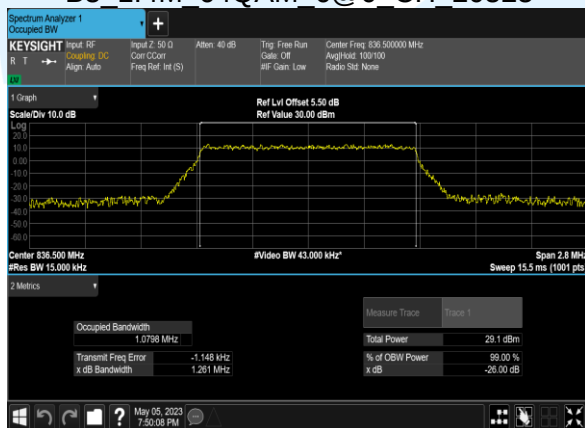
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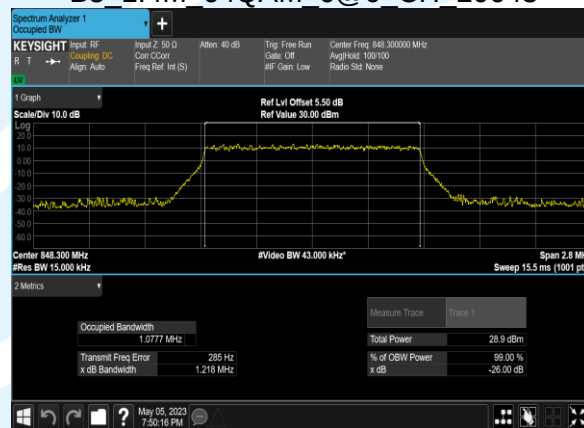
B5 1.4M 64QAM 6@0 CH 20407



B5 1.4M 64QAM 6@0 CH 20525



B5 1.4M 64QAM 6@0 CH 20643



Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
5	10.0	20450	829.0	QPSK	1@0	-30.41	-13	PASS
5	10.0	20450	829.0	16QAM	1@0	-31.08	-13	PASS
5	10.0	20525	836.5	QPSK	1@0	-30.98	-13	PASS
5	10.0	20525	836.5	16QAM	1@0	-30.62	-13	PASS
5	10.0	20600	844.0	QPSK	1@0	-31.32	-13	PASS
5	10.0	20600	844.0	16QAM	1@0	-30.98	-13	PASS
5	5.0	20425	826.5	QPSK	1@0	-30.89	-13	PASS
5	5.0	20425	826.5	16QAM	1@0	-31.21	-13	PASS
5	5.0	20525	836.5	QPSK	1@0	-31.23	-13	PASS
5	5.0	20525	836.5	16QAM	1@0	-31.15	-13	PASS
5	5.0	20625	846.5	QPSK	1@0	-31.18	-13	PASS
5	5.0	20625	846.5	16QAM	1@0	-30.37	-13	PASS
5	3.0	20415	825.5	QPSK	1@0	-31.13	-13	PASS
5	3.0	20415	825.5	16QAM	1@0	-31.01	-13	PASS
5	3.0	20525	836.5	QPSK	1@0	-31.23	-13	PASS
5	3.0	20525	836.5	16QAM	1@0	-30.99	-13	PASS
5	3.0	20635	847.5	QPSK	1@0	-30.93	-13	PASS
5	3.0	20635	847.5	16QAM	1@0	-30.88	-13	PASS
5	1.4	20407	824.7	QPSK	1@0	-31.09	-13	PASS
5	1.4	20407	824.7	16QAM	1@0	-31.34	-13	PASS
5	1.4	20525	836.5	QPSK	1@0	-31.17	-13	PASS
5	1.4	20525	836.5	16QAM	1@0	-30.24	-13	PASS
5	1.4	20643	848.3	QPSK	1@0	-30.78	-13	PASS
5	1.4	20643	848.3	16QAM	1@0	-31.01	-13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
5	10.0	20450	829.0	64QAM	1@0	-30.31	-13	PASS
5	10.0	20525	836.5	64QAM	1@0	-30.42	-13	PASS
5	10.0	20600	844.0	64QAM	1@0	-30.25	-13	PASS
5	5.0	20425	826.5	64QAM	1@0	-28.24	-13	PASS
5	5.0	20525	836.5	64QAM	1@0	-29.82	-13	PASS
5	5.0	20625	846.5	64QAM	1@0	-29.67	-13	PASS
5	3.0	20415	825.5	64QAM	1@0	-30.57	-13	PASS
5	3.0	20525	836.5	64QAM	1@0	-29.8	-13	PASS
5	3.0	20635	847.5	64QAM	1@0	-29.23	-13	PASS
5	1.4	20407	824.7	64QAM	1@0	-29.93	-13	PASS
5	1.4	20525	836.5	64QAM	1@0	-30.25	-13	PASS
5	1.4	20643	848.3	64QAM	1@0	-30.26	-13	PASS

Test Graphs

B5 10M QPSK 1@0 CH 20450



B5 10M 16QAM 1@0 CH 20450



B5 10M QPSK 1@0 CH 20525



B5 10M 16QAM 1@0 CH 20525



B5 10M QPSK 1@0 CH 20600



B5 10M 16QAM 1@0 CH 20600



B5 5M QPSK 1@0 CH 20425



B5 5M 16QAM 1@0 CH 20425



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UTTR-RF-FCC4G-V1.1

B5 5M QPSK 1@0 CH 20525



B5 5M 16QAM 1@0 CH 20525



B5 5M QPSK 1@0 CH 20625



B5 5M 16QAM 1@0 CH 20625



B5 3M QPSK 1@0 CH 20415



B5 3M 16QAM 1@0 CH 20415



B5 3M QPSK 1@0 CH 20525



B5 3M 16QAM 1@0 CH 20525



B5 3M QPSK 1@0 CH 20635



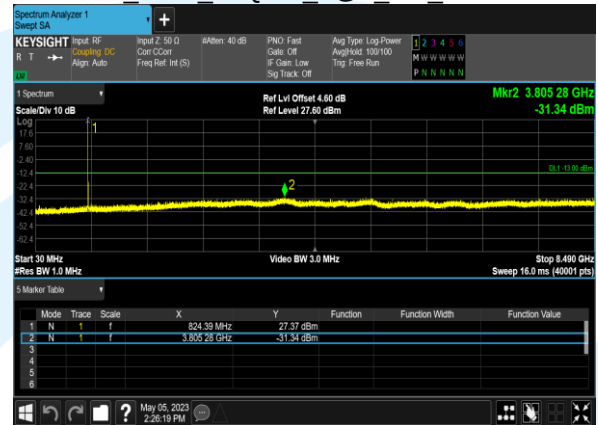
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B5 1.4M QPSK 1@0 CH 20407



B5 1.4M 16QAM 1@0 CH 20407



B5 1.4M QPSK 1@0 CH 20525



B5 1.4M 16QAM 1@0 CH 20525



B5 1.4M QPSK 1@0 CH 20643



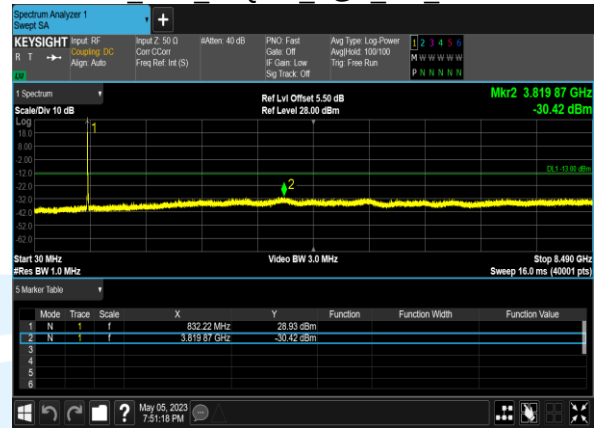
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B5 10M 64QAM 1@0 CH 20525



B5 10M 64QAM 1@0 CH 20600



B5 5M 64QAM 1@0 CH 20425



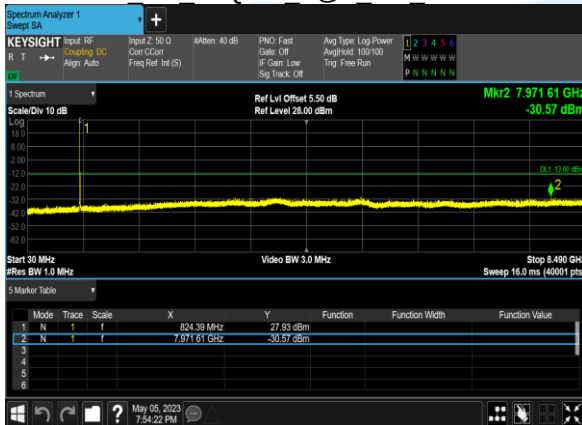
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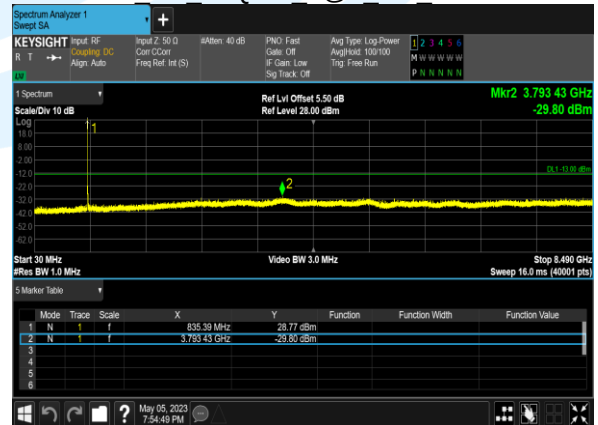
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B5 3M 64QAM 1@0 CH 20415



B5 3M 64QAM 1@0 CH 20525



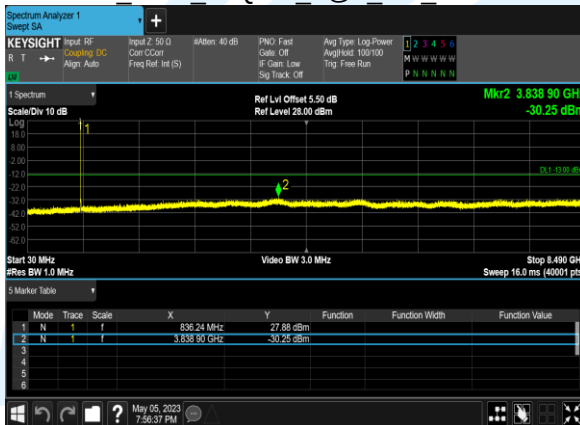
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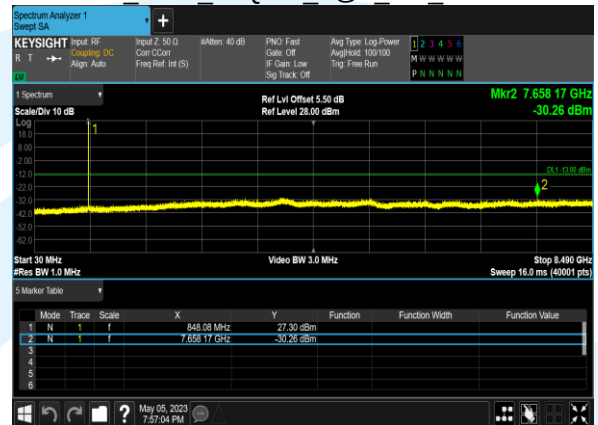
B5 1.4M 64QAM 1@0 CH 20407



B5 1.4M 64QAM 1@0 CH 20525



B5 1.4M 64QAM 1@0 CH 20643



Conducted Band Edge

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
5	10.0	20450	829.0	QPSK	1@0	see graph	PASS
5	10.0	20450	829.0	QPSK	50@0	see graph	PASS
5	10.0	20450	829.0	16QAM	1@0	see graph	PASS
5	10.0	20450	829.0	16QAM	50@0	see graph	PASS
5	10.0	20600	844.0	QPSK	1@49	see graph	PASS
5	10.0	20600	844.0	QPSK	50@0	see graph	PASS
5	10.0	20600	844.0	16QAM	1@49	see graph	PASS
5	10.0	20600	844.0	16QAM	50@0	see graph	PASS
5	5.0	20425	826.5	QPSK	1@0	see graph	PASS
5	5.0	20425	826.5	QPSK	25@0	see graph	PASS
5	5.0	20425	826.5	16QAM	1@0	see graph	PASS
5	5.0	20425	826.5	16QAM	25@0	see graph	PASS
5	5.0	20625	846.5	QPSK	1@24	see graph	PASS
5	5.0	20625	846.5	QPSK	25@0	see graph	PASS
5	5.0	20625	846.5	16QAM	1@24	see graph	PASS
5	5.0	20625	846.5	16QAM	25@0	see graph	PASS
5	3.0	20415	825.5	QPSK	1@0	see graph	PASS
5	3.0	20415	825.5	QPSK	15@0	see graph	PASS
5	3.0	20415	825.5	16QAM	1@0	see graph	PASS
5	3.0	20415	825.5	16QAM	15@0	see graph	PASS
5	3.0	20635	847.5	QPSK	1@14	see graph	PASS
5	3.0	20635	847.5	QPSK	15@0	see graph	PASS
5	3.0	20635	847.5	16QAM	1@14	see graph	PASS
5	3.0	20635	847.5	16QAM	15@0	see graph	PASS
5	1.4	20407	824.7	QPSK	1@0	see graph	PASS
5	1.4	20407	824.7	QPSK	6@0	see graph	PASS
5	1.4	20407	824.7	16QAM	1@0	see graph	PASS
5	1.4	20407	824.7	16QAM	6@0	see graph	PASS
5	1.4	20643	848.3	QPSK	1@5	see graph	PASS
5	1.4	20643	848.3	QPSK	6@0	see graph	PASS
5	1.4	20643	848.3	16QAM	1@5	see graph	PASS
5	1.4	20643	848.3	16QAM	6@0	see graph	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
5	10.0	20450	829.0	64QAM	1@0	see graph	PASS
5	10.0	20450	829.0	64QAM	50@0	see graph	PASS
5	10.0	20600	844.0	64QAM	1@49	see graph	PASS
5	10.0	20600	844.0	64QAM	50@0	see graph	PASS
5	5.0	20425	826.5	64QAM	1@0	see graph	PASS
5	5.0	20425	826.5	64QAM	25@0	see graph	PASS
5	5.0	20625	846.5	64QAM	1@24	see graph	PASS
5	5.0	20625	846.5	64QAM	25@0	see graph	PASS
5	3.0	20415	825.5	64QAM	1@0	see graph	PASS
5	3.0	20415	825.5	64QAM	15@0	see graph	PASS
5	3.0	20635	847.5	64QAM	1@14	see graph	PASS
5	3.0	20635	847.5	64QAM	15@0	see graph	PASS
5	1.4	20407	824.7	64QAM	1@0	see graph	PASS
5	1.4	20407	824.7	64QAM	6@0	see graph	PASS
5	1.4	20643	848.3	64QAM	1@5	see graph	PASS
5	1.4	20643	848.3	64QAM	6@0	see graph	PASS

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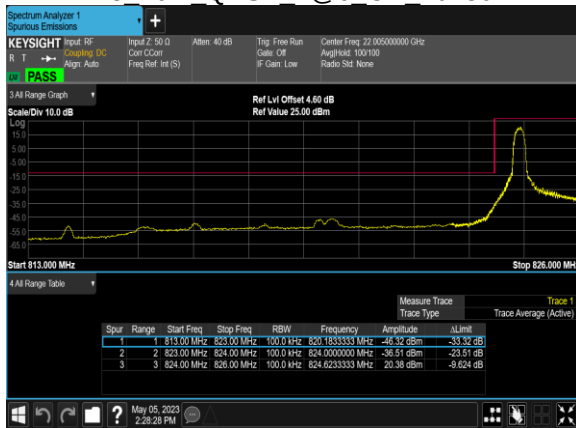
E-mail: info@uttlab.com

<http://www.uttlab.com>

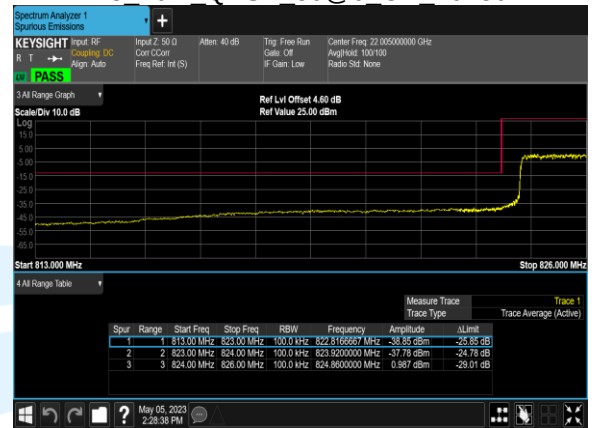
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Test Graphs

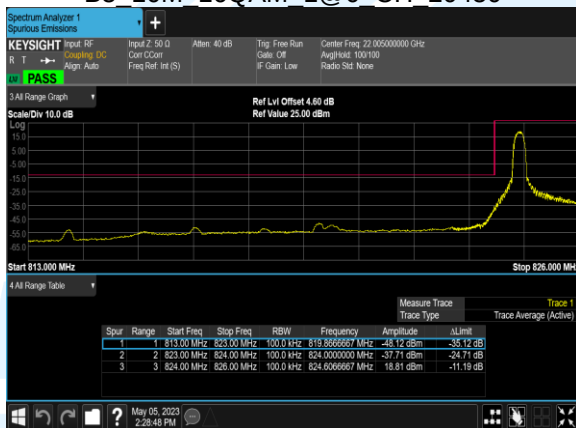
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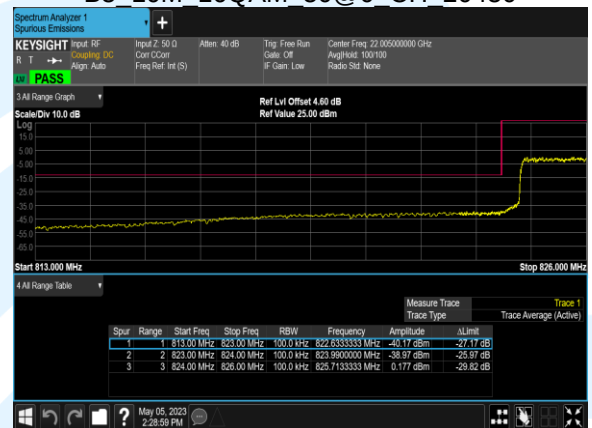
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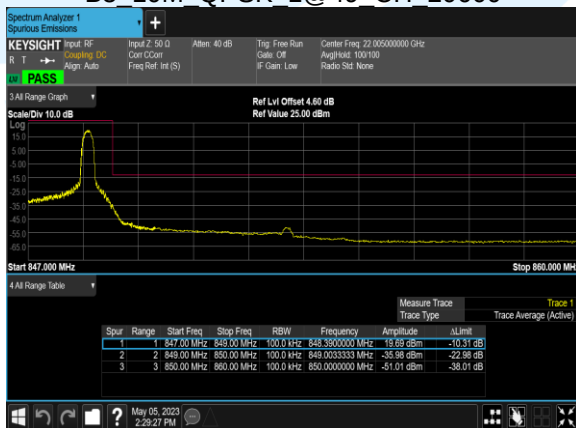
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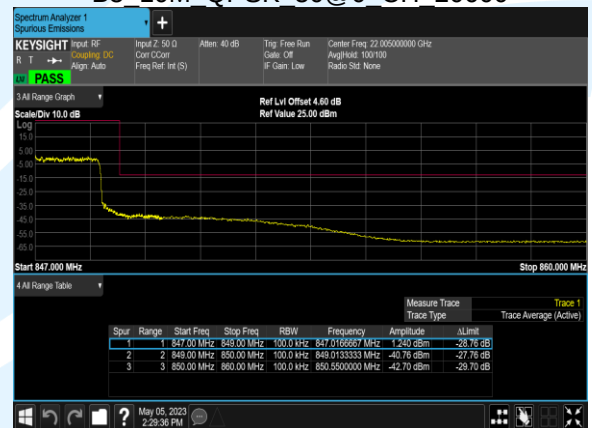
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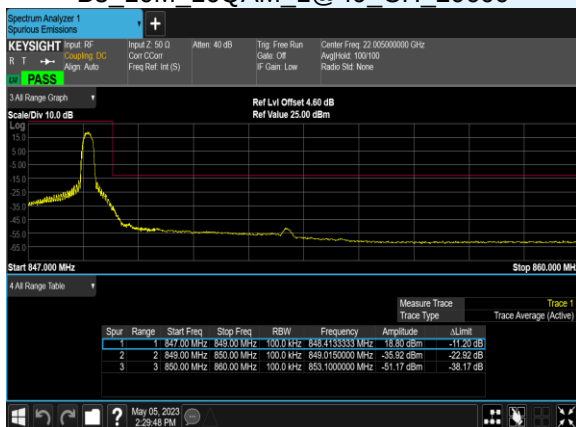
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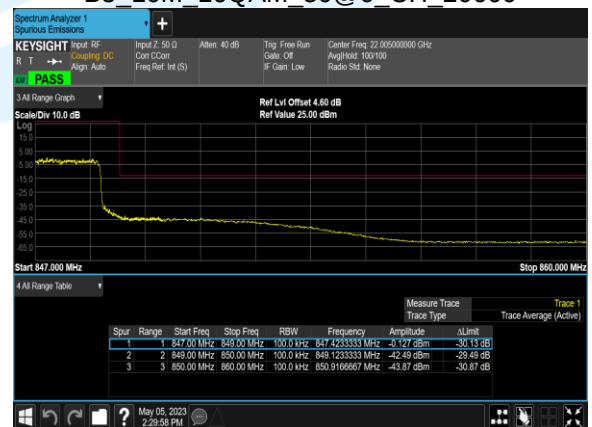
B5 10M QPSK 50@0 CH 20600



B5 10M 16QAM 1@49 CH 20600



B5 10M 16QAM 50@0 CH 20600



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