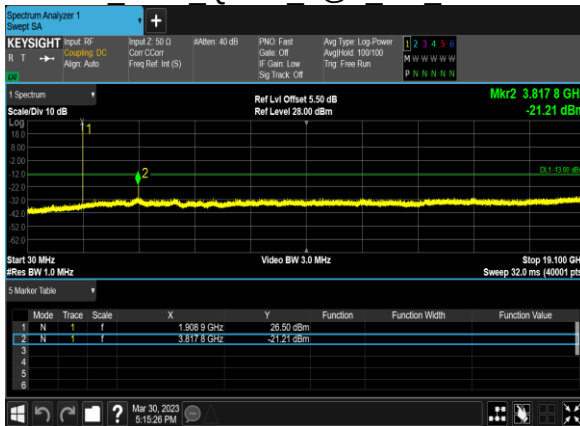
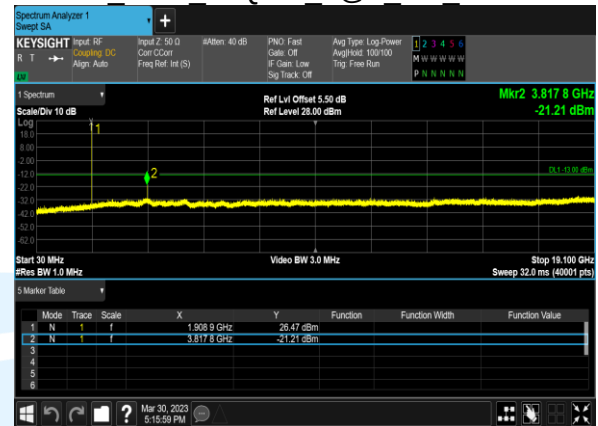


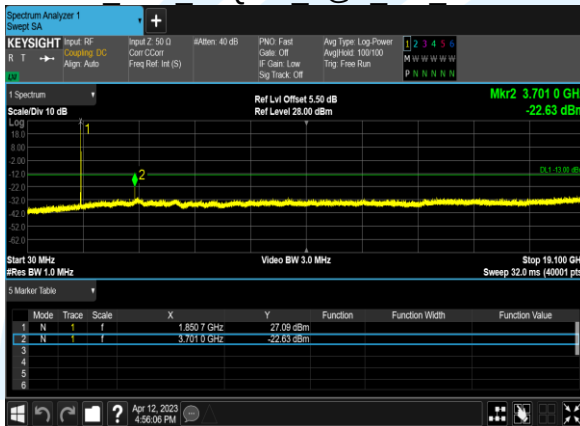
B2 1.4M QPSK 1@0 CH 19193



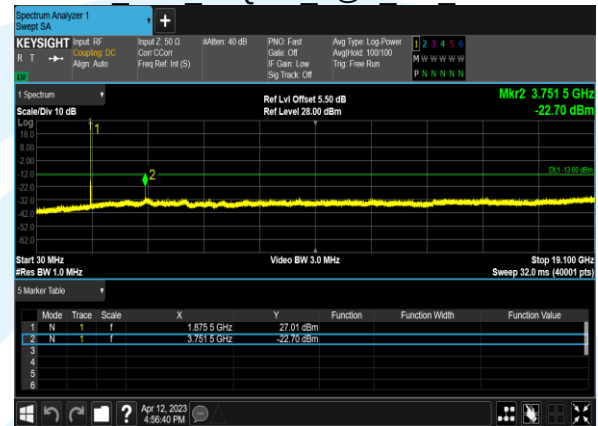
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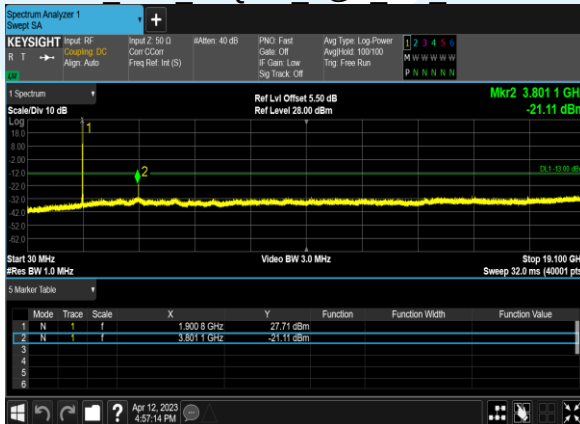
B2 10M 64QAM 1@0 CH 18650



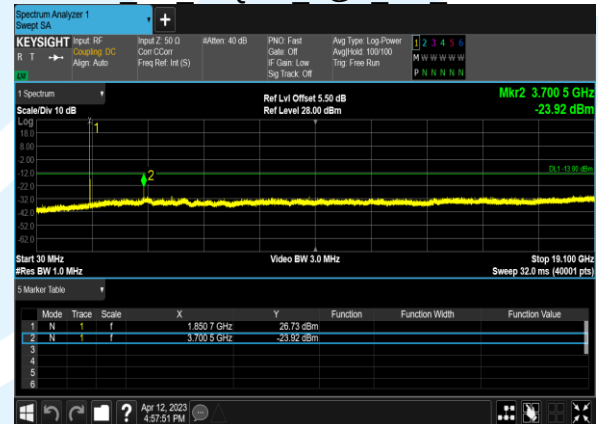
B2 10M 64QAM 1@0 CH 18900



B2 10M 64QAM 1@0 CH 19150



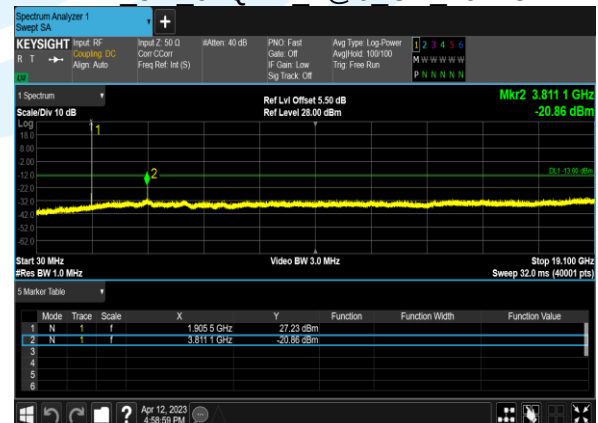
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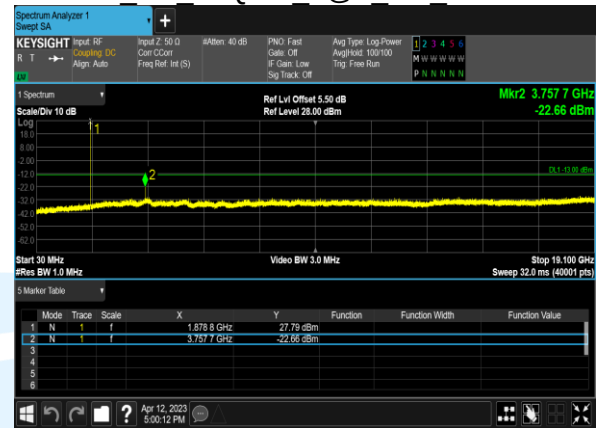
B2 5M 64QAM 1@0 CH 19175



B2_3M_64QAM_1@0_CH_18615



B2_3M_64QAM_1@0_CH_18900



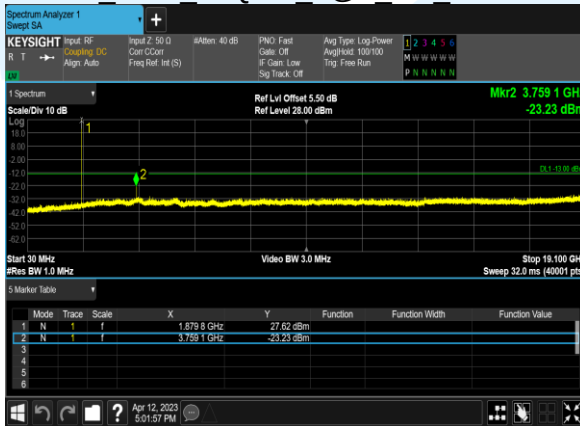
B2_3M_64QAM_1@0_CH_19185



B2_1.4M_64QAM_1@0_CH_18607



B2_1.4M_64QAM_1@0_CH_18900



B2_1.4M_64QAM_1@0_CH_19193



Conducted Band Edge

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
2	20.0	18700	1860.0	QPSK	1@0	see graph	PASS
2	20.0	18700	1860.0	QPSK	100@0	see graph	PASS
2	20.0	18700	1860.0	16QAM	1@0	see graph	PASS
2	20.0	18700	1860.0	16QAM	100@0	see graph	PASS
2	20.0	19100	1900.0	QPSK	1@99	see graph	PASS
2	20.0	19100	1900.0	QPSK	100@0	see graph	PASS
2	20.0	19100	1900.0	16QAM	1@99	see graph	PASS
2	20.0	19100	1900.0	16QAM	100@0	see graph	PASS
2	15.0	18675	1857.5	QPSK	1@0	see graph	PASS
2	15.0	18675	1857.5	QPSK	75@0	see graph	PASS
2	15.0	18675	1857.5	16QAM	1@0	see graph	PASS
2	15.0	18675	1857.5	16QAM	75@0	see graph	PASS
2	15.0	19125	1902.5	QPSK	1@74	see graph	PASS
2	15.0	19125	1902.5	QPSK	75@0	see graph	PASS
2	15.0	19125	1902.5	16QAM	1@74	see graph	PASS
2	15.0	19125	1902.5	16QAM	75@0	see graph	PASS
2	10.0	18650	1855.0	QPSK	1@0	see graph	PASS
2	10.0	18650	1855.0	QPSK	50@0	see graph	PASS
2	10.0	18650	1855.0	16QAM	1@0	see graph	PASS
2	10.0	18650	1855.0	16QAM	50@0	see graph	PASS
2	10.0	19150	1905.0	QPSK	1@49	see graph	PASS
2	10.0	19150	1905.0	QPSK	50@0	see graph	PASS
2	10.0	19150	1905.0	16QAM	1@49	see graph	PASS
2	10.0	19150	1905.0	16QAM	50@0	see graph	PASS
2	5.0	18625	1852.5	QPSK	1@0	see graph	PASS
2	5.0	18625	1852.5	QPSK	25@0	see graph	PASS
2	5.0	18625	1852.5	16QAM	1@0	see graph	PASS
2	5.0	18625	1852.5	16QAM	25@0	see graph	PASS
2	5.0	19175	1907.5	QPSK	1@24	see graph	PASS
2	5.0	19175	1907.5	QPSK	25@0	see graph	PASS
2	5.0	19175	1907.5	16QAM	1@24	see graph	PASS
2	5.0	19175	1907.5	16QAM	25@0	see graph	PASS
2	3.0	18615	1851.5	QPSK	1@0	see graph	PASS
2	3.0	18615	1851.5	QPSK	15@0	see graph	PASS
2	3.0	18615	1851.5	16QAM	1@0	see graph	PASS
2	3.0	18615	1851.5	16QAM	15@0	see graph	PASS
2	3.0	19185	1908.5	QPSK	1@14	see graph	PASS
2	3.0	19185	1908.5	QPSK	15@0	see graph	PASS
2	3.0	19185	1908.5	16QAM	1@14	see graph	PASS
2	3.0	19185	1908.5	16QAM	15@0	see graph	PASS
2	1.4	18607	1850.7	QPSK	1@0	see graph	PASS
2	1.4	18607	1850.7	QPSK	6@0	see graph	PASS
2	1.4	18607	1850.7	16QAM	1@0	see graph	PASS
2	1.4	18607	1850.7	16QAM	6@0	see graph	PASS
2	1.4	19193	1909.3	QPSK	1@5	see graph	PASS
2	1.4	19193	1909.3	QPSK	6@0	see graph	PASS
2	1.4	19193	1909.3	16QAM	1@5	see graph	PASS
2	1.4	19193	1909.3	16QAM	6@0	see graph	PASS
2	20.0	18700	1860.0	64QAM	1@0	see graph	PASS
2	20.0	18700	1860.0	64QAM	100@0	see graph	PASS
2	20.0	19100	1900.0	64QAM	1@99	see graph	PASS
2	20.0	19100	1900.0	64QAM	100@0	see graph	PASS
2	15.0	18675	1857.5	64QAM	1@0	see graph	PASS
2	15.0	18675	1857.5	64QAM	75@0	see graph	PASS
2	15.0	19125	1902.5	64QAM	1@74	see graph	PASS
2	15.0	19125	1902.5	64QAM	75@0	see graph	PASS
2	10.0	18650	1855.0	64QAM	1@0	see graph	PASS
2	10.0	18650	1855.0	64QAM	50@0	see graph	PASS
2	10.0	19150	1905.0	64QAM	1@49	see graph	PASS
2	10.0	19150	1905.0	64QAM	50@0	see graph	PASS
2	5.0	18625	1852.5	64QAM	1@0	see graph	PASS
2	5.0	18625	1852.5	64QAM	25@0	see graph	PASS
2	5.0	19175	1907.5	64QAM	1@24	see graph	PASS
2	5.0	19175	1907.5	64QAM	25@0	see graph	PASS
2	3.0	18615	1851.5	64QAM	1@0	see graph	PASS
2	3.0	18615	1851.5	64QAM	15@0	see graph	PASS
2	3.0	19185	1908.5	64QAM	1@14	see graph	PASS
2	3.0	19185	1908.5	64QAM	15@0	see graph	PASS
2	1.4	18607	1850.7	64QAM	1@0	see graph	PASS
2	1.4	18607	1850.7	64QAM	6@0	see graph	PASS
2	1.4	19193	1909.3	64QAM	1@5	see graph	PASS
2	1.4	19193	1909.3	64QAM	6@0	see graph	PASS

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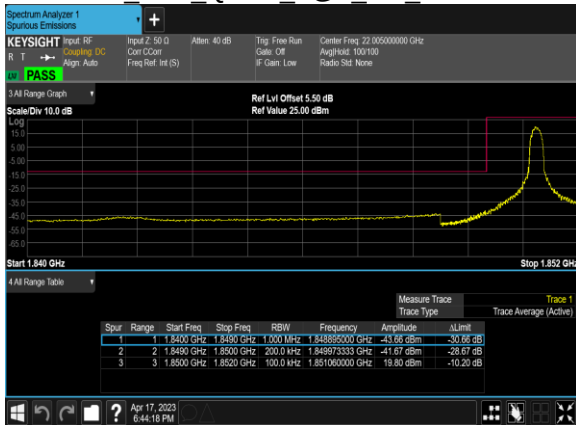
E-mail: info@uttlab.com

<http://www.uttlab.com>

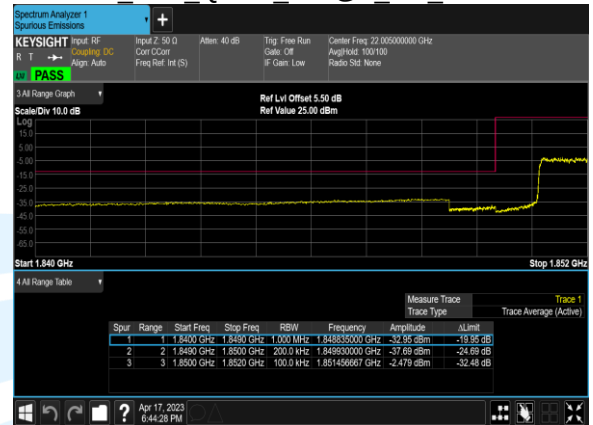
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Test Graphs

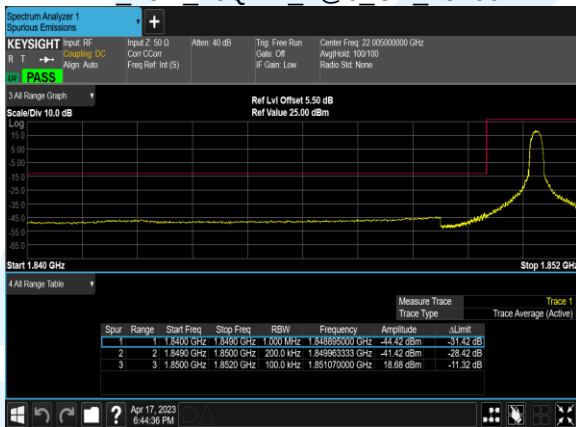
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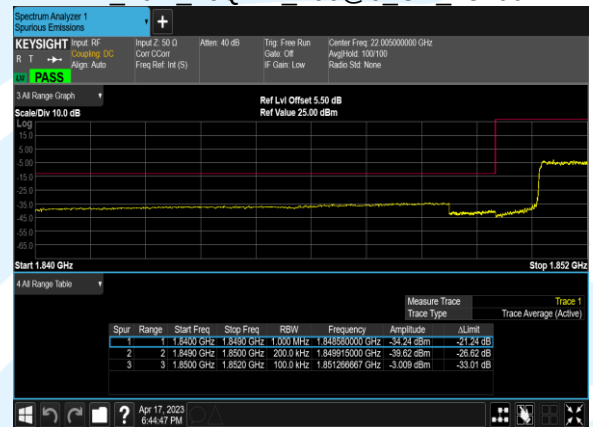
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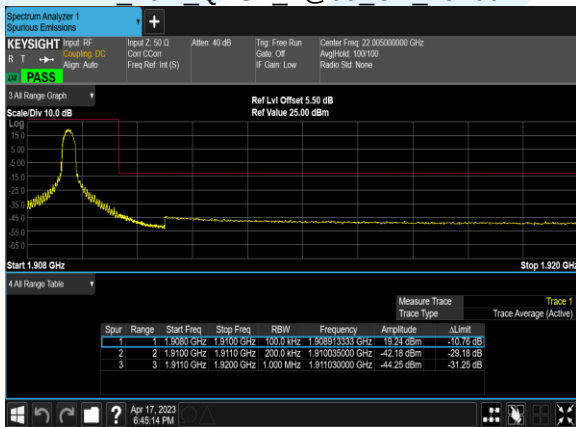
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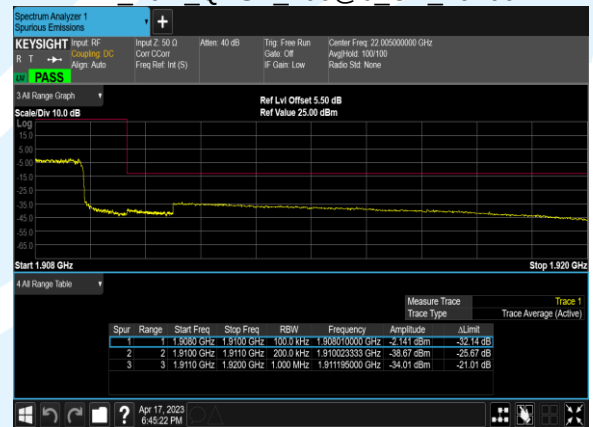
B2 20M 16QAM 100@0 CH 18700



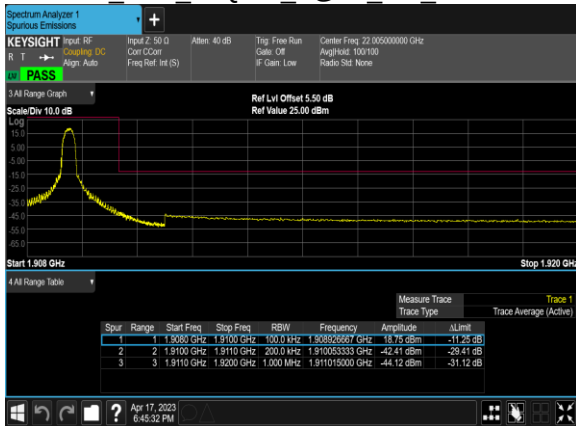
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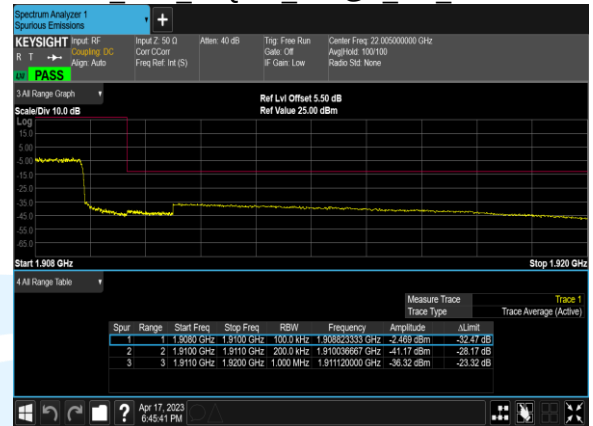
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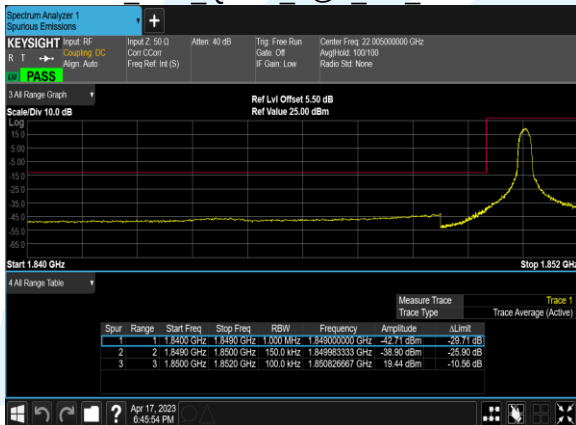
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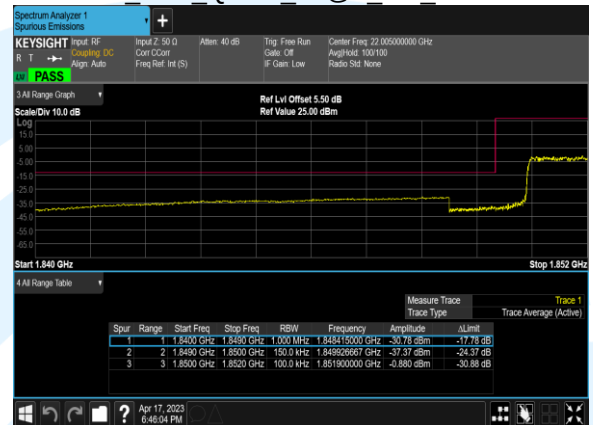
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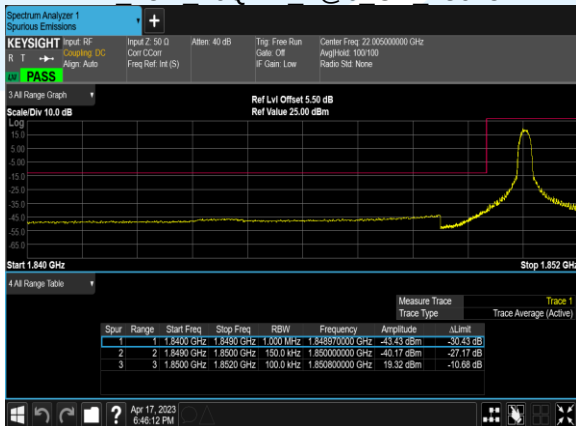
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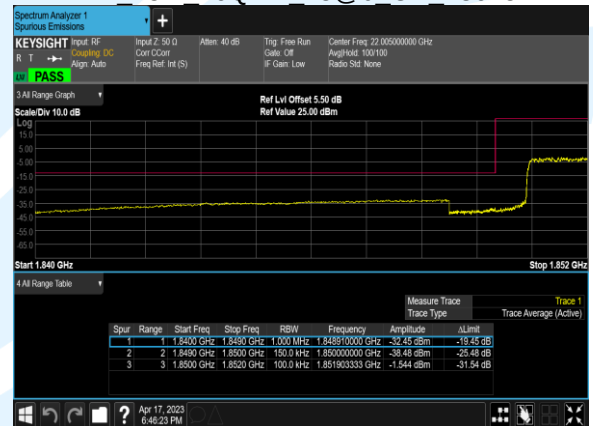
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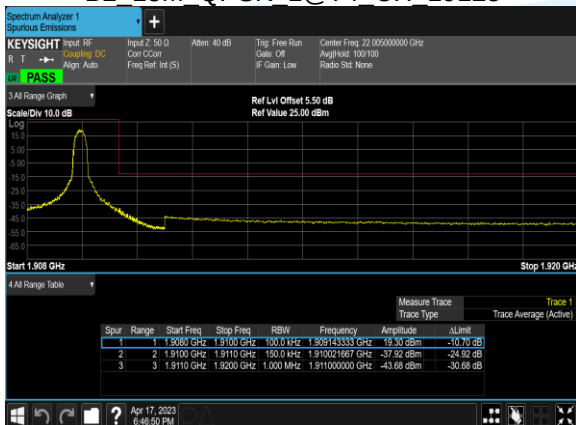
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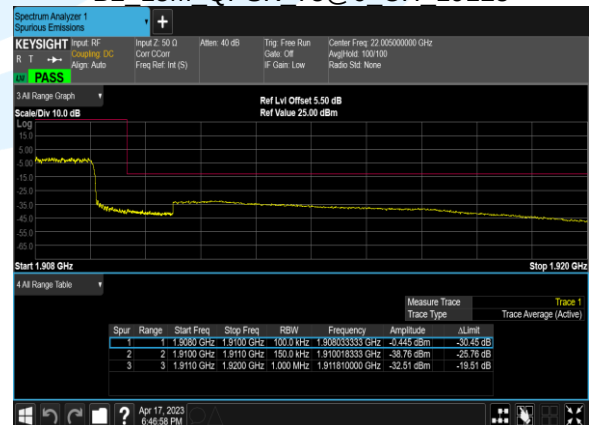
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B2 15M QPSK 1@74 CH 19125



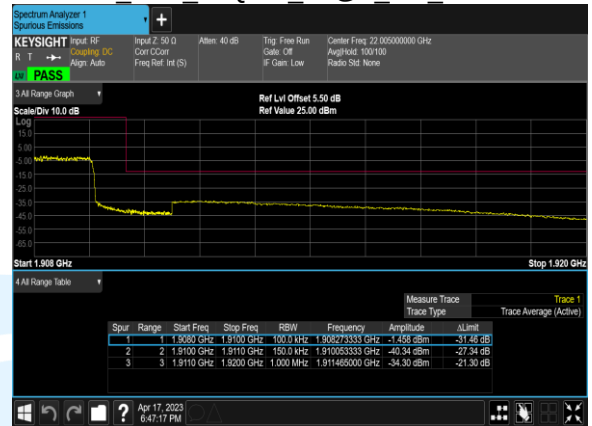
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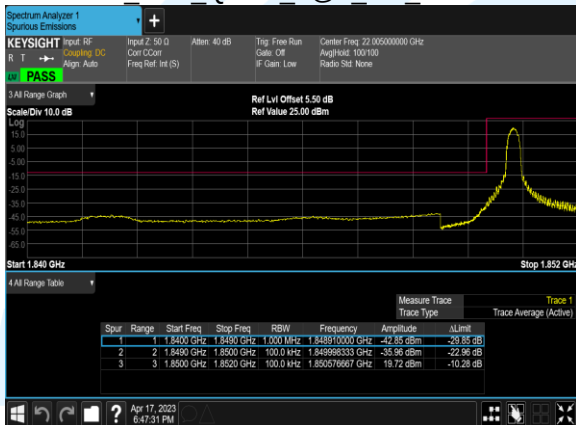
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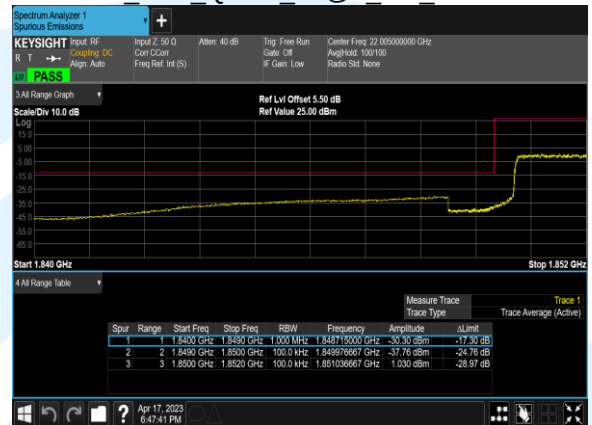
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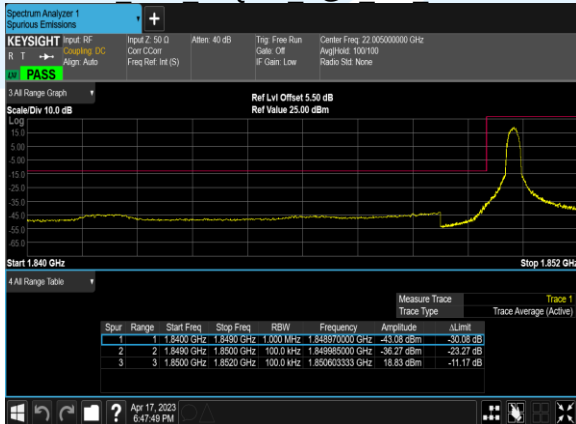
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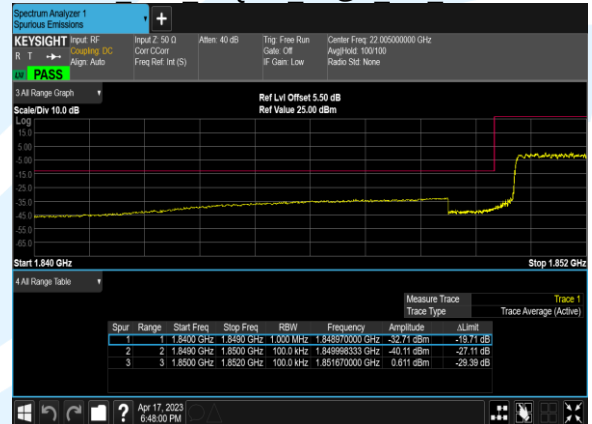
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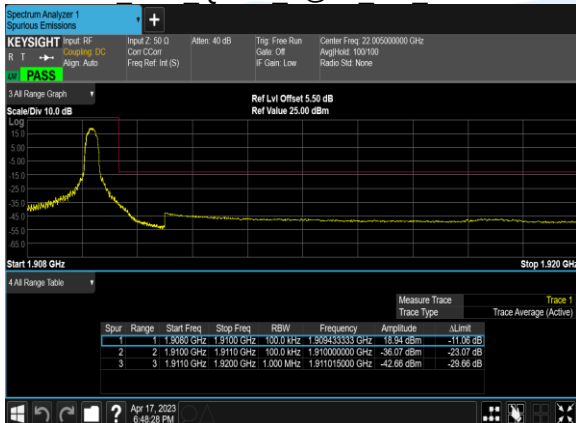
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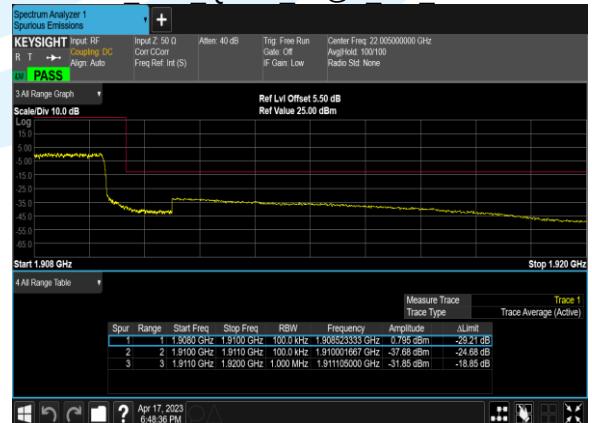
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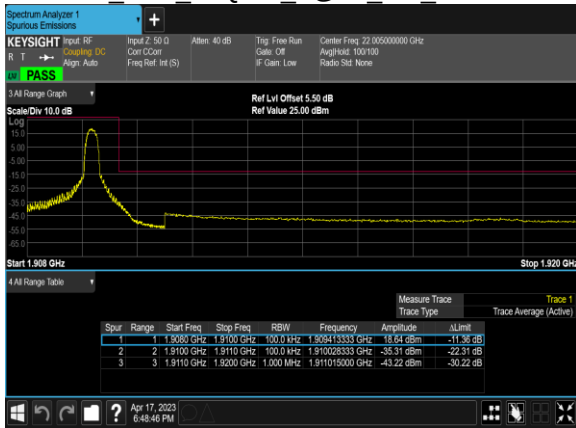
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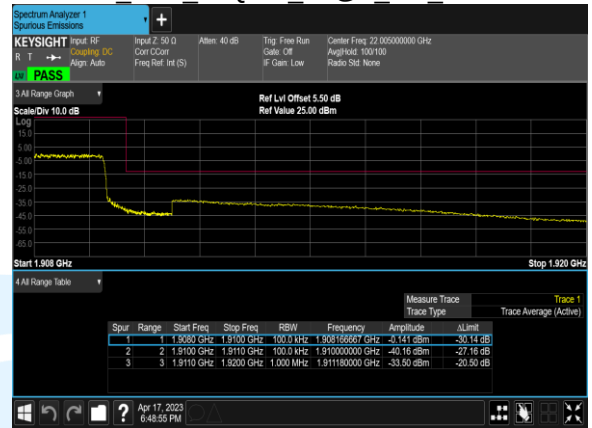
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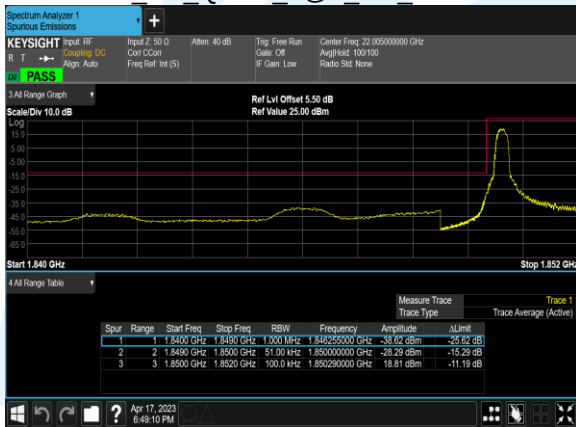
B2 10M 16QAM 1@49 CH 19150



B2 10M 16QAM 50@0 CH 19150



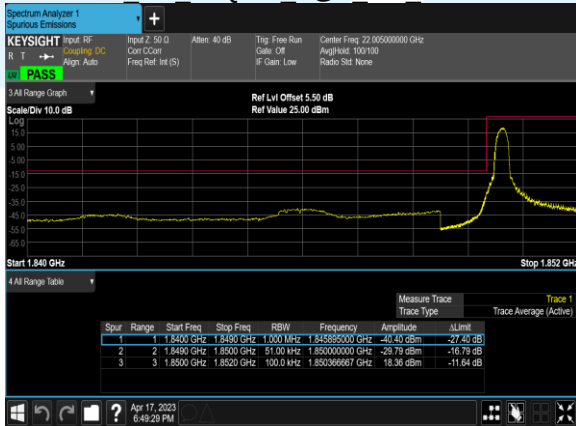
B2 5M QPSK 1@0 CH 18625



B2 5M QPSK 25@0 CH 18625



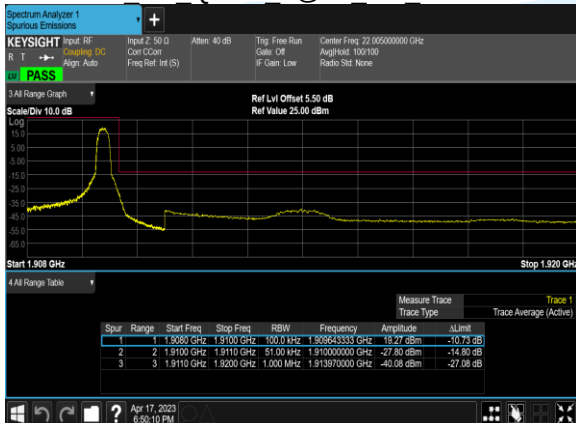
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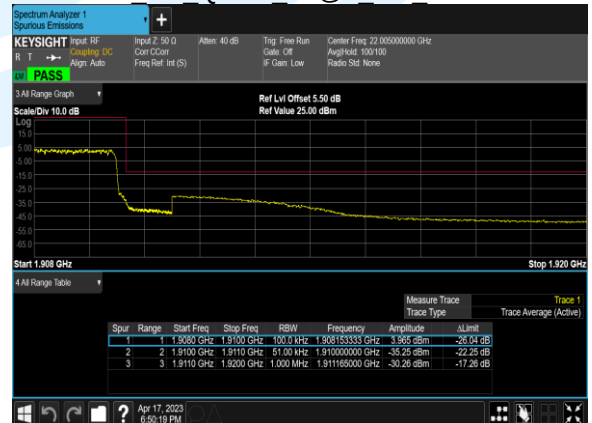
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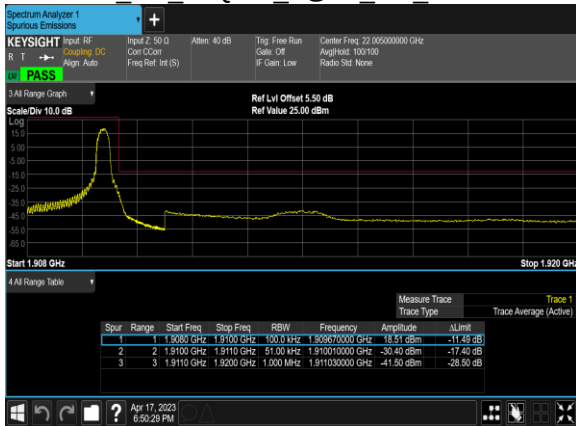
B2 5M QPSK 1@24 CH 19175



B2 5M QPSK 25@0 CH 19175



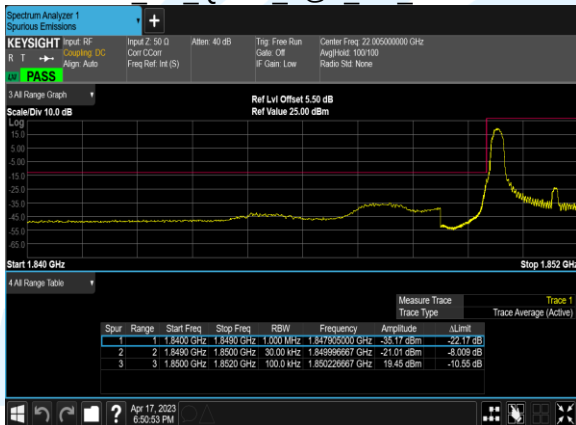
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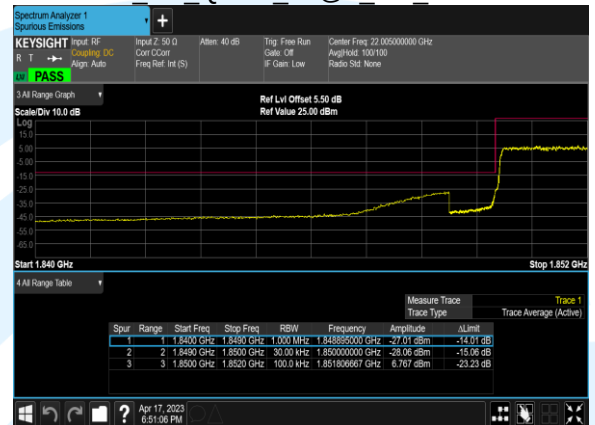
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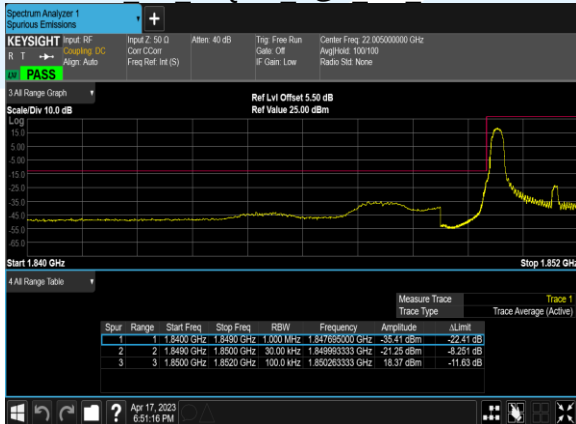
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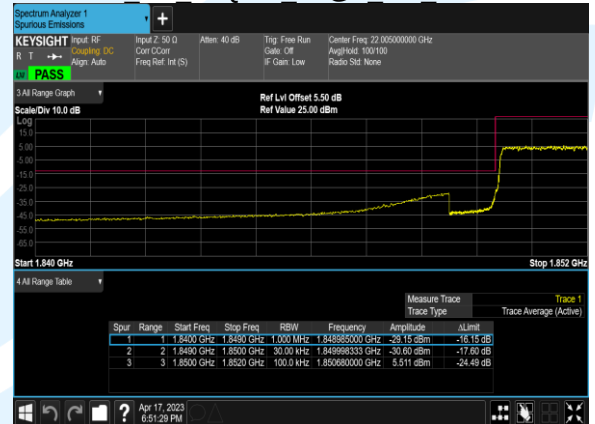
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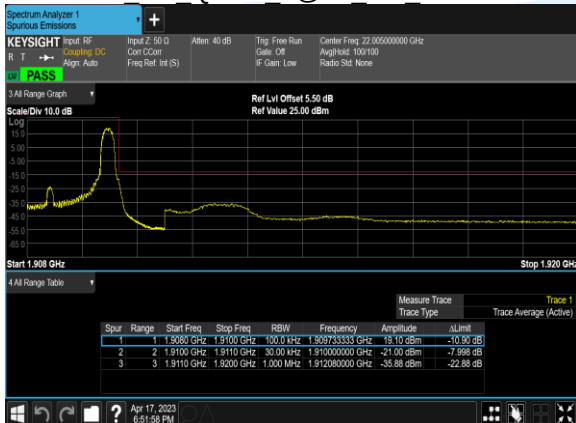
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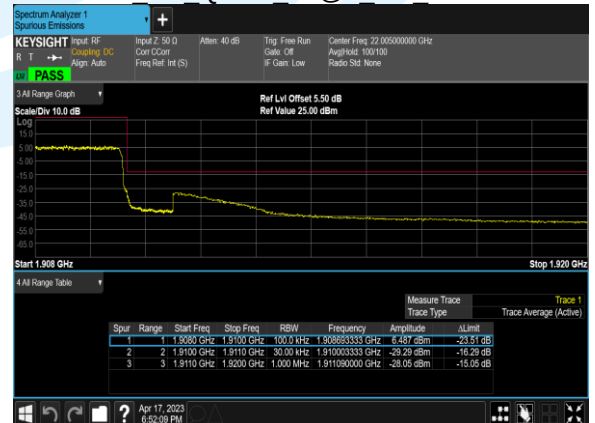
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B2 3M QPSK 1@14 CH 19185



B2 3M QPSK 15@0 CH 19185



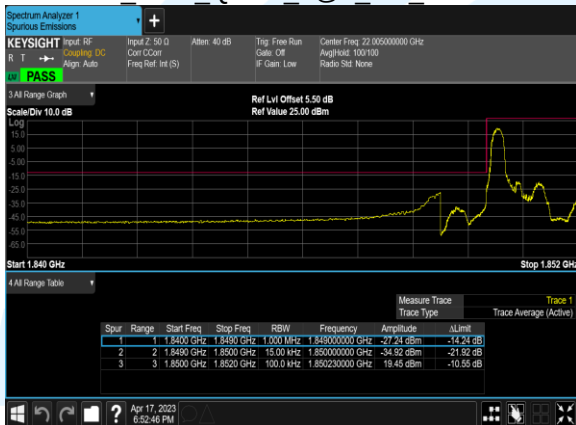
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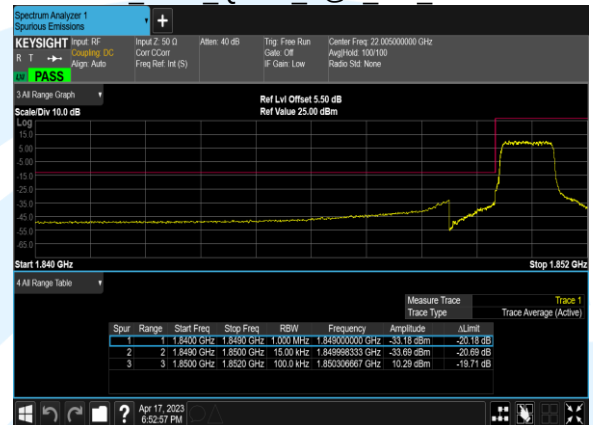
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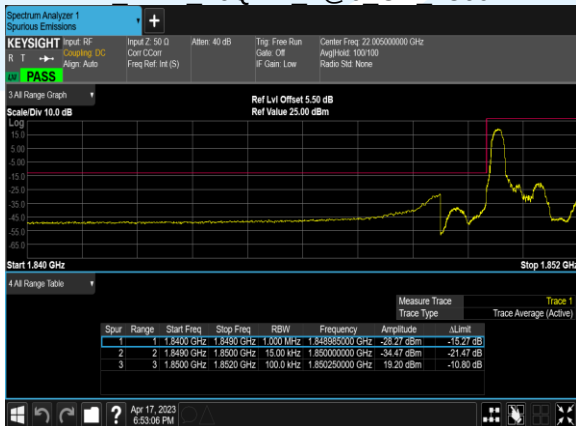
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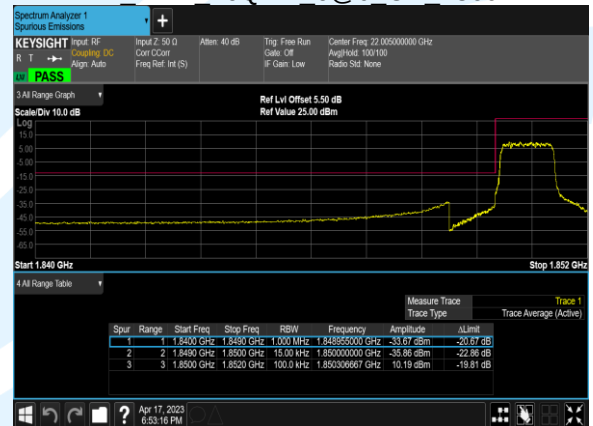
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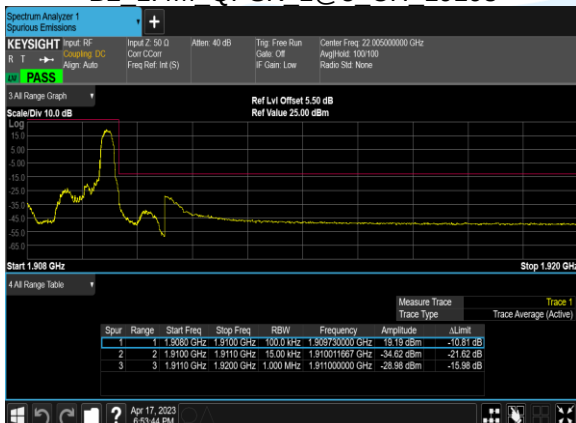
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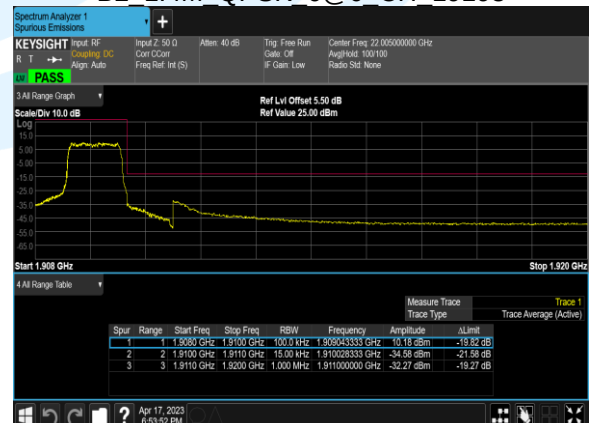
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B2 1.4M QPSK 1@5 CH 19193



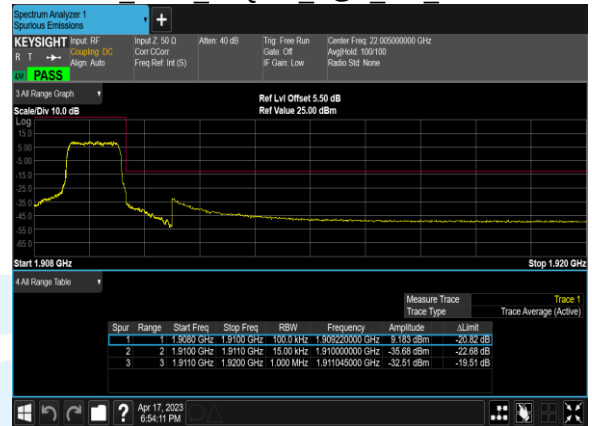
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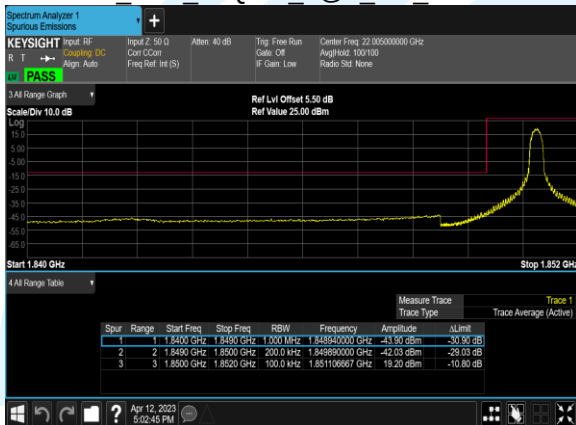
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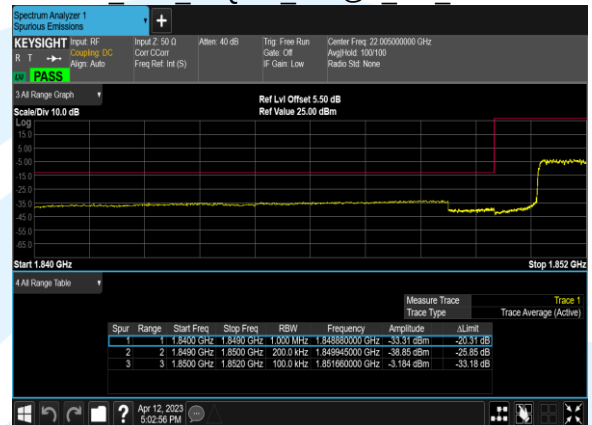
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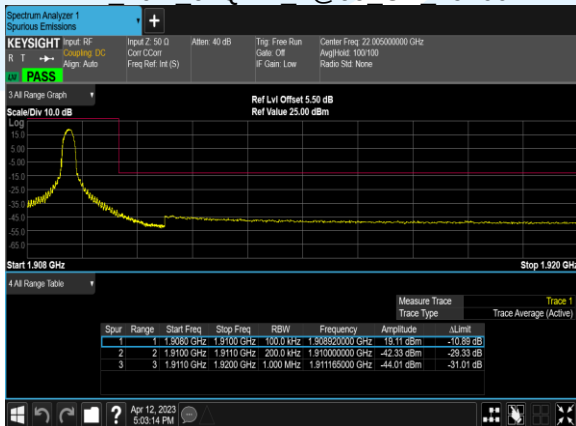
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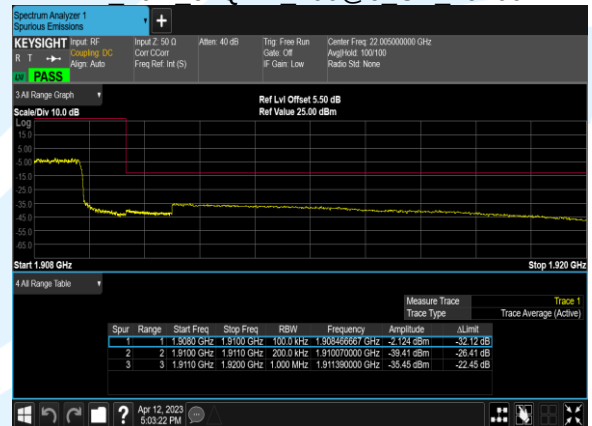
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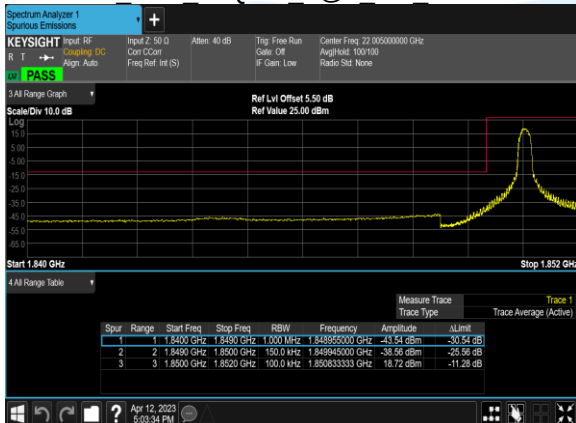
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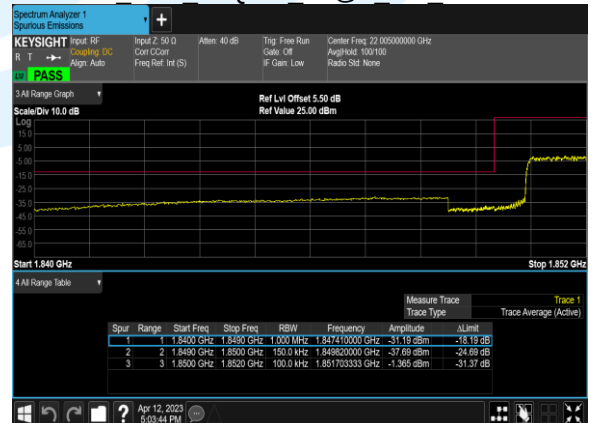
B2 20M 64QAM 100@0 CH 19100



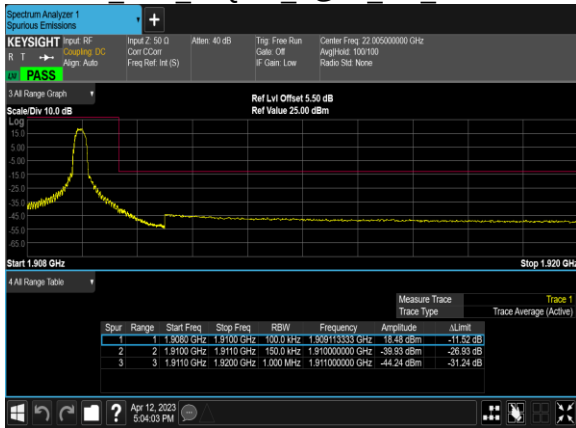
B2 15M 64QAM 1@0 CH 18675



B2 15M 64QAM 75@0 CH 18675



B2 15M 64QAM 1@74 CH 19125



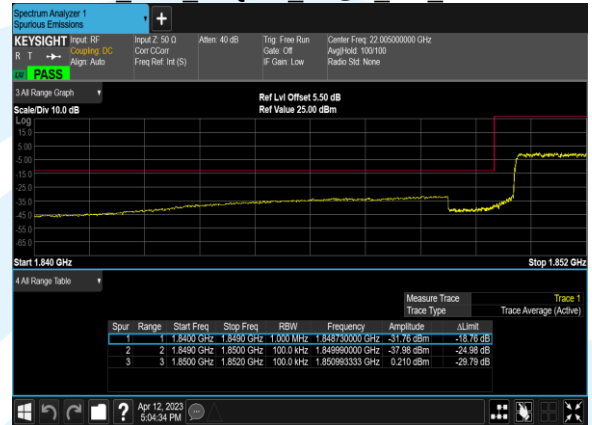
B2 15M 64QAM 75@0 CH 19125



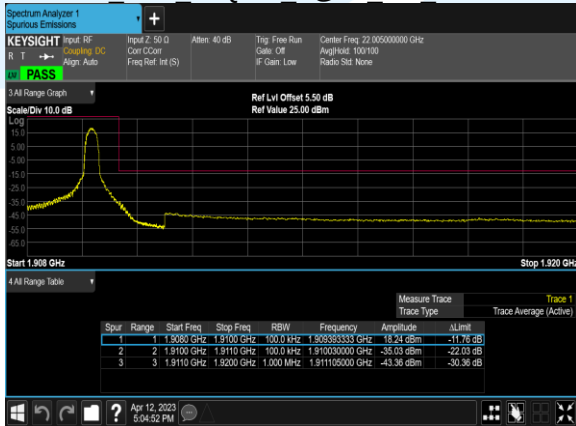
B2 10M 64QAM 1@0 CH 18650



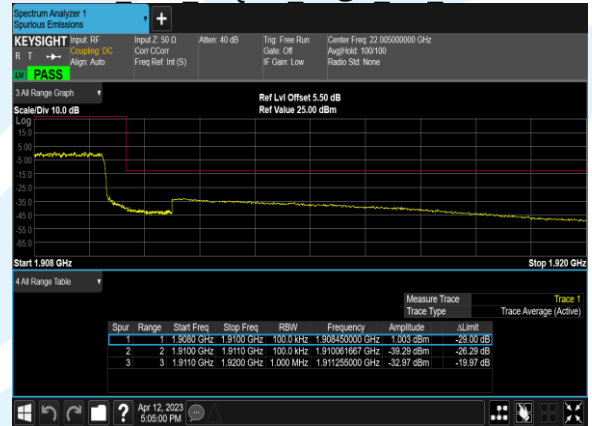
B2 10M 64QAM 50@0 CH 18650



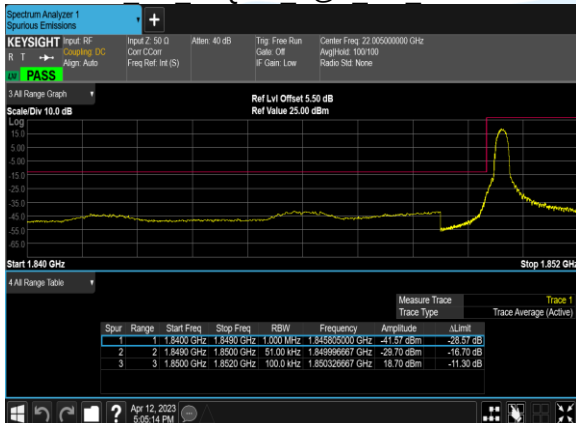
B2 10M 64QAM 1@49 CH 19150



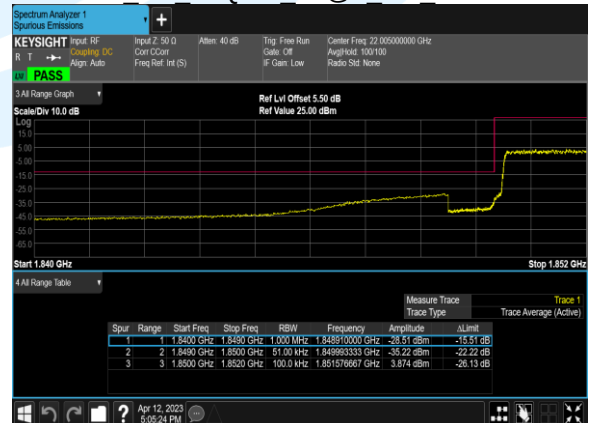
B2 10M 64QAM 50@0 CH 19150



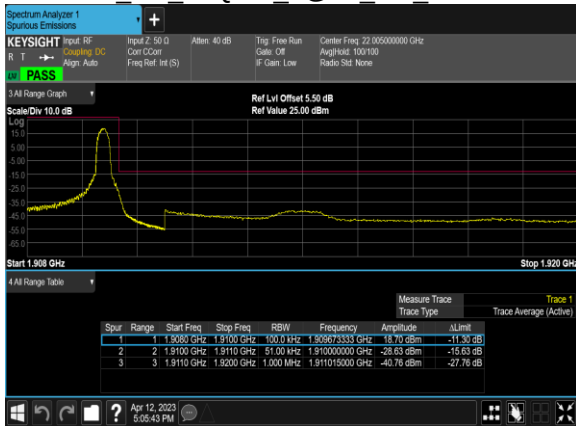
B2 5M 64QAM 1@0 CH 18625



B2 5M 64QAM 25@0 CH 18625



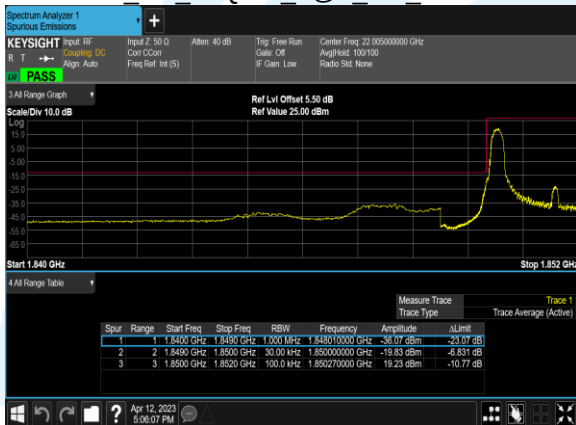
B2 5M 64QAM 1@24 CH 19175



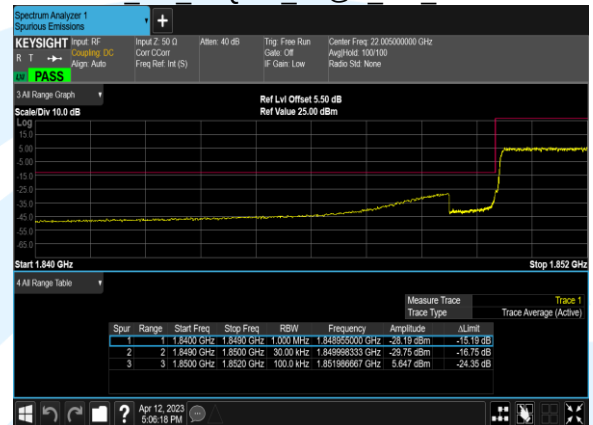
B2 5M 64QAM 25@0 CH 19175



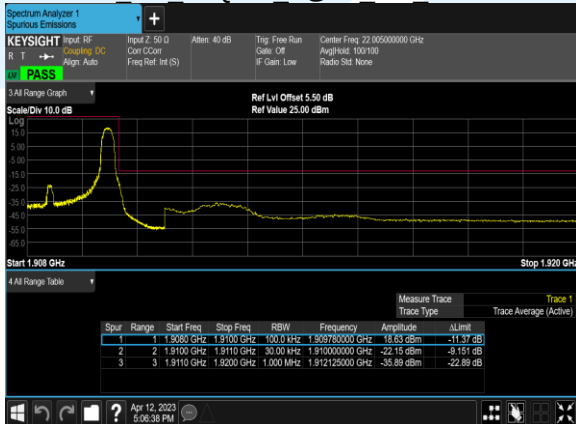
B2 3M 64QAM 1@0 CH 18615



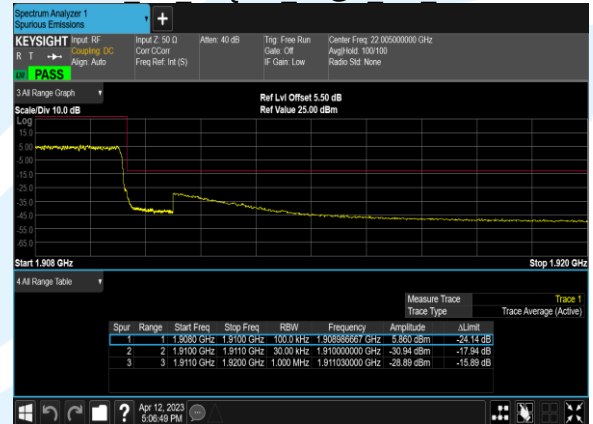
B2 3M 64QAM 15@0 CH 18615



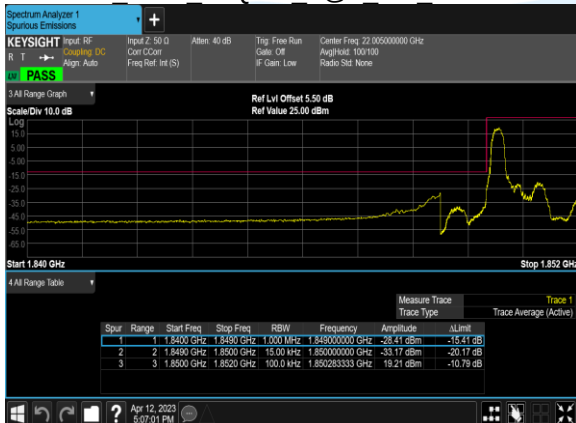
B2 3M 64QAM 1@14 CH 19185



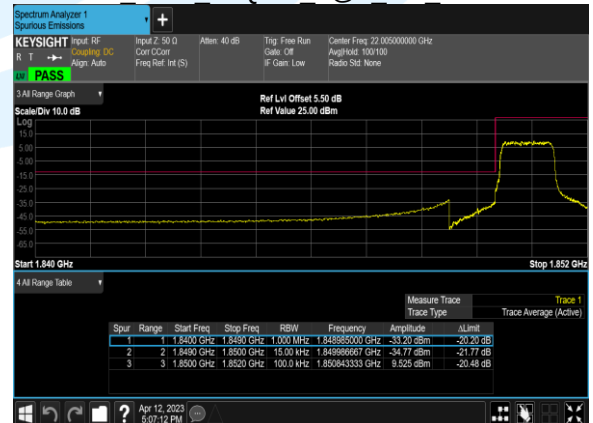
B2 3M 64QAM 15@0 CH 19185



B2 1.4M 64QAM 1@0 CH 18607



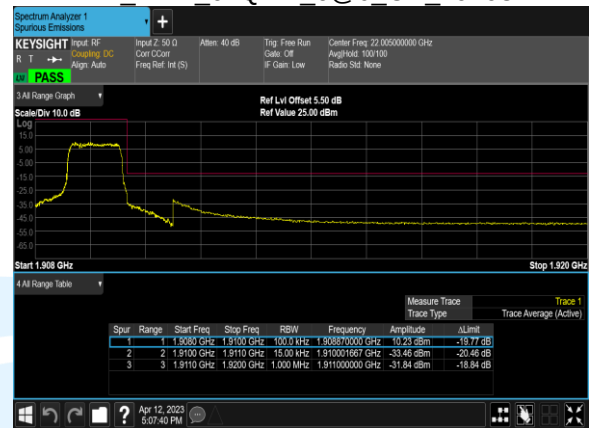
B2 1.4M 64QAM 6@0 CH 18607



B2 1.4M 64QAM 1@5 CH 19193



B2 1.4M 64QAM 6@0 CH 19193



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UTTR-RF-FCC4G-V1.1

A.2 LTE BAND 4

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
4	20.0	20050	1720.0	QPSK	100@0	5.67	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.28	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.43	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	6.16	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.52	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	6.21	13	PASS
4	15.0	20025	1717.5	QPSK	75@0	5.45	13	PASS
4	15.0	20025	1717.5	16QAM	75@0	6.20	13	PASS
4	15.0	20175	1732.5	QPSK	75@0	5.24	13	PASS
4	15.0	20175	1732.5	16QAM	75@0	6.03	13	PASS
4	15.0	20325	1747.5	QPSK	75@0	5.31	13	PASS
4	15.0	20325	1747.5	16QAM	75@0	6.10	13	PASS
4	10.0	20000	1715.0	QPSK	50@0	5.62	13	PASS
4	10.0	20000	1715.0	16QAM	50@0	6.36	13	PASS
4	10.0	20175	1732.5	QPSK	50@0	5.42	13	PASS
4	10.0	20175	1732.5	16QAM	50@0	6.15	13	PASS
4	10.0	20350	1750.0	QPSK	50@0	5.45	13	PASS
4	10.0	20350	1750.0	16QAM	50@0	6.18	13	PASS
4	5.0	19975	1712.5	QPSK	25@0	5.51	13	PASS
4	5.0	19975	1712.5	16QAM	25@0	6.16	13	PASS
4	5.0	20175	1732.5	QPSK	25@0	5.36	13	PASS
4	5.0	20175	1732.5	16QAM	25@0	6.06	13	PASS
4	5.0	20375	1752.5	QPSK	25@0	5.34	13	PASS
4	5.0	20375	1752.5	16QAM	25@0	6.02	13	PASS
4	3.0	19965	1711.5	QPSK	15@0	5.54	13	PASS
4	3.0	19965	1711.5	16QAM	15@0	6.29	13	PASS
4	3.0	20175	1732.5	QPSK	15@0	5.34	13	PASS
4	3.0	20175	1732.5	16QAM	15@0	6.11	13	PASS
4	3.0	20385	1753.5	QPSK	15@0	5.33	13	PASS
4	3.0	20385	1753.5	16QAM	15@0	6.08	13	PASS
4	1.4	19957	1710.7	QPSK	6@0	5.37	13	PASS
4	1.4	19957	1710.7	16QAM	6@0	6.10	13	PASS
4	1.4	20175	1732.5	QPSK	6@0	5.28	13	PASS
4	1.4	20175	1732.5	16QAM	6@0	6.12	13	PASS
4	1.4	20393	1754.3	QPSK	6@0	5.27	13	PASS
4	1.4	20393	1754.3	16QAM	6@0	5.99	13	PASS
4	20.0	20050	1720.0	64QAM	100@0	6.45	13	PASS
4	20.0	20175	1732.5	64QAM	100@0	6.27	13	PASS
4	20.0	20300	1745.0	64QAM	100@0	6.27	13	PASS
4	15.0	20025	1717.5	64QAM	75@0	6.23	13	PASS
4	15.0	20175	1732.5	64QAM	75@0	6.11	13	PASS
4	15.0	20325	1747.5	64QAM	75@0	6.07	13	PASS
4	10.0	20000	1715.0	64QAM	50@0	6.35	13	PASS
4	10.0	20175	1732.5	64QAM	50@0	6.18	13	PASS
4	10.0	20350	1750.0	64QAM	50@0	6.24	13	PASS
4	5.0	19975	1712.5	64QAM	25@0	6.22	13	PASS
4	5.0	20175	1732.5	64QAM	25@0	6.12	13	PASS
4	5.0	20375	1752.5	64QAM	25@0	6.11	13	PASS
4	3.0	19965	1711.5	64QAM	15@0	6.34	13	PASS
4	3.0	20175	1732.5	64QAM	15@0	6.18	13	PASS
4	3.0	20385	1753.5	64QAM	15@0	6.13	13	PASS
4	1.4	19957	1710.7	64QAM	6@0	6.23	13	PASS
4	1.4	20175	1732.5	64QAM	6@0	6.10	13	PASS
4	1.4	20393	1754.3	64QAM	6@0	5.99	13	PASS

Test Graphs

B4 20M QPSK 100@0 CH 20050



B4 20M 16QAM 100@0 CH 20050



B4 20M QPSK 100@0 CH 20175



B4 20M 16QAM 100@0 CH 20175



B4 20M QPSK 100@0 CH 20300



B4 20M 16QAM 100@0 CH 20300

