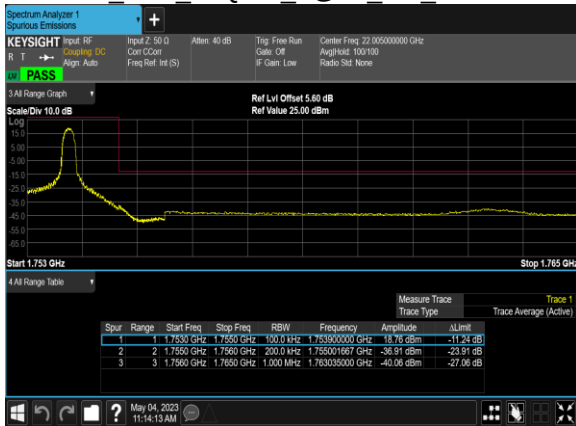
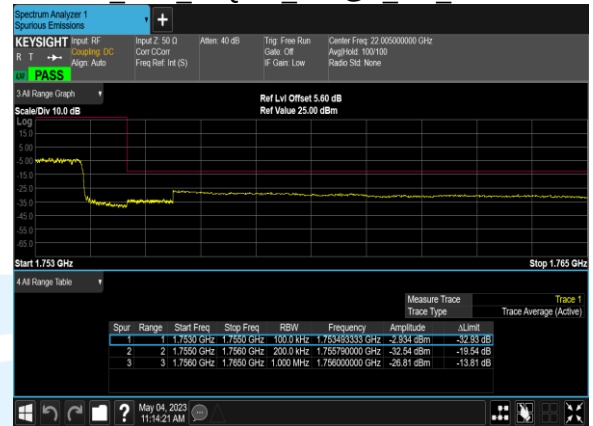


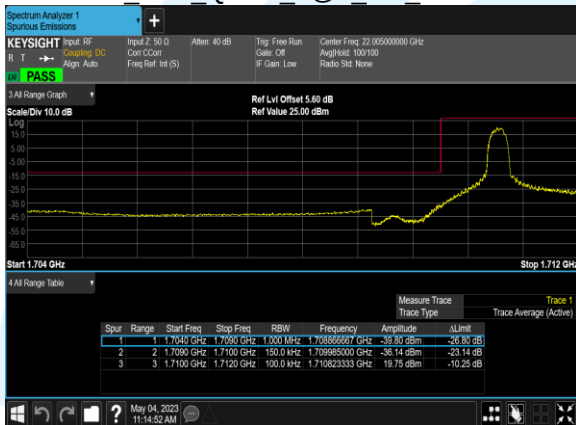
B4 20M 16QAM 1@99 CH 20300



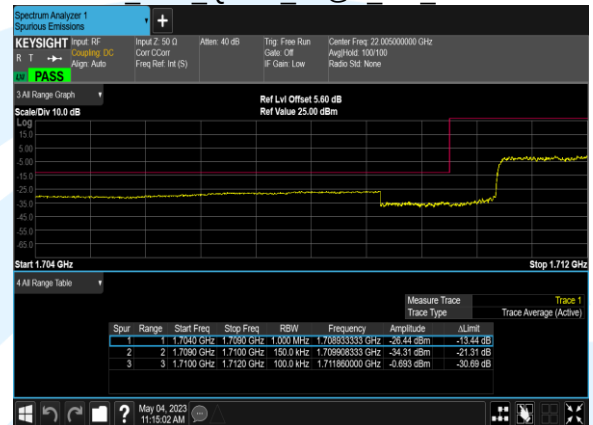
B4 20M 16QAM 100@0 CH 20300



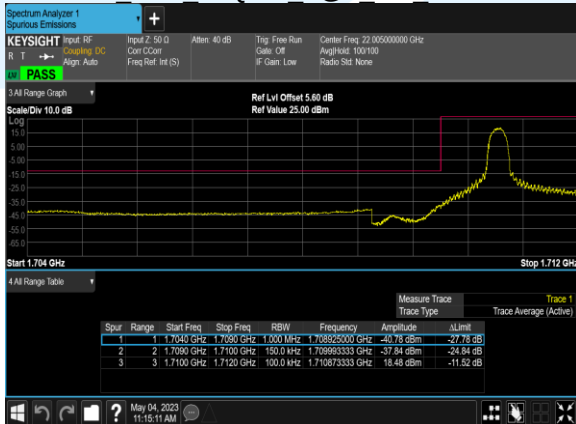
B4 15M QPSK 1@0 CH 20255



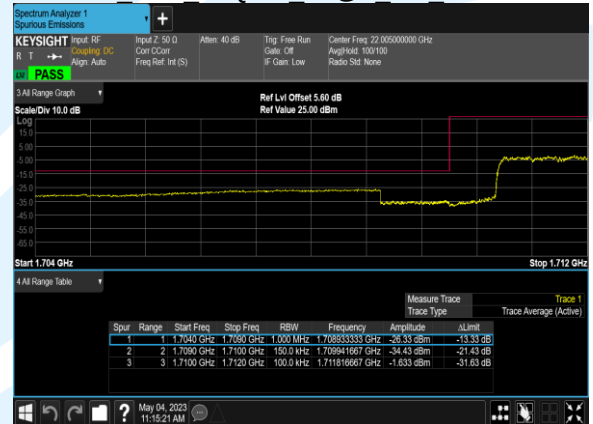
B4 15M QPSK 75@0 CH 20255



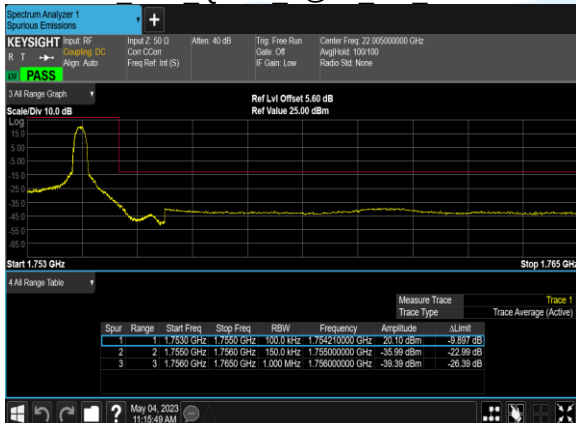
B4 15M 16QAM 1@0 CH 20255



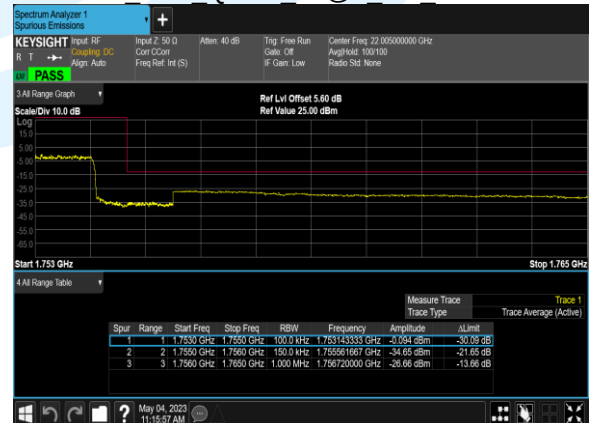
B4 15M 16QAM 75@0 CH 20255



B4 15M QPSK 1@74 CH 20325



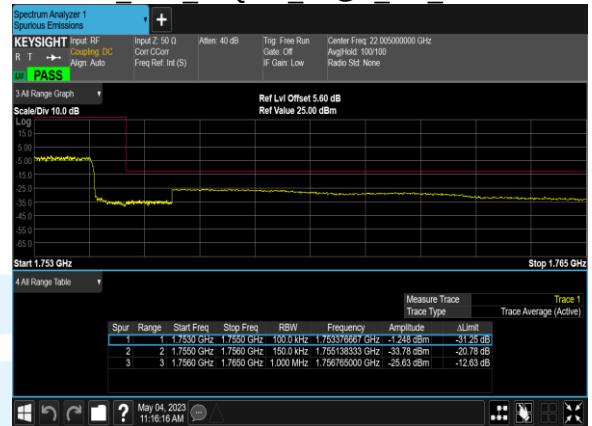
B4 15M QPSK 75@0 CH 20325



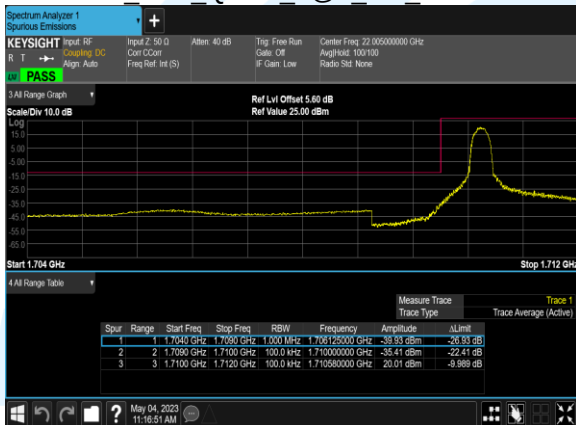
B4 15M 16QAM 1@74 CH 20325



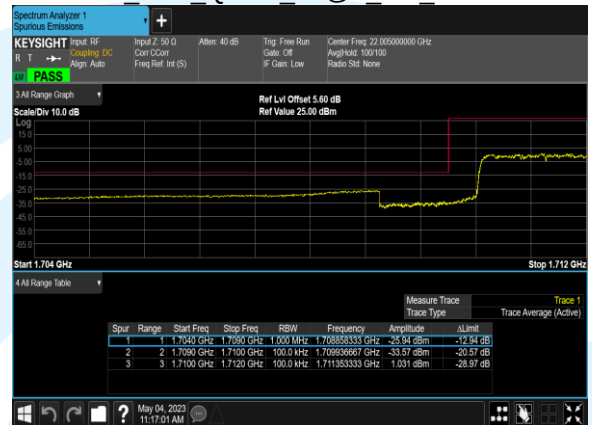
B4 15M 16QAM 75@0 CH 20325



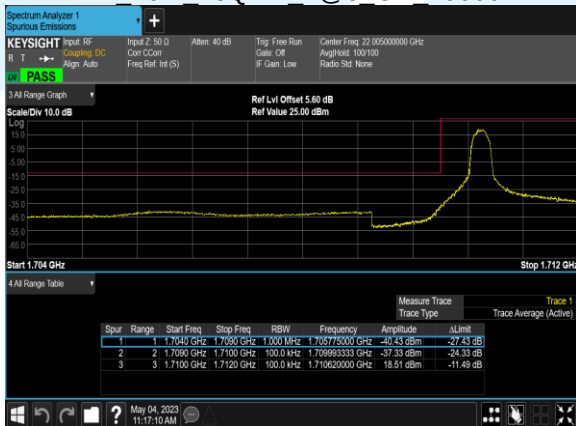
B4 10M QPSK 1@0 CH 20000



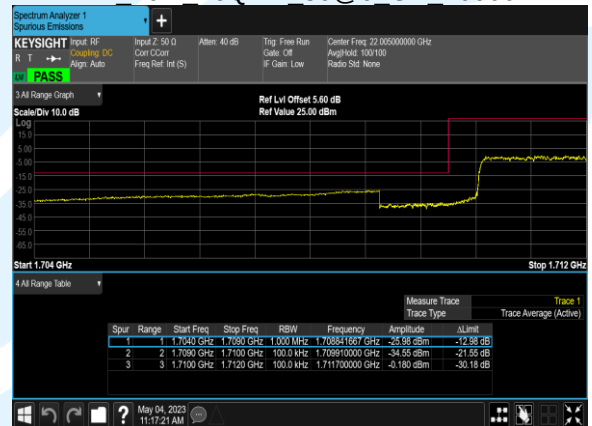
B4 10M QPSK 50@0 CH 20000



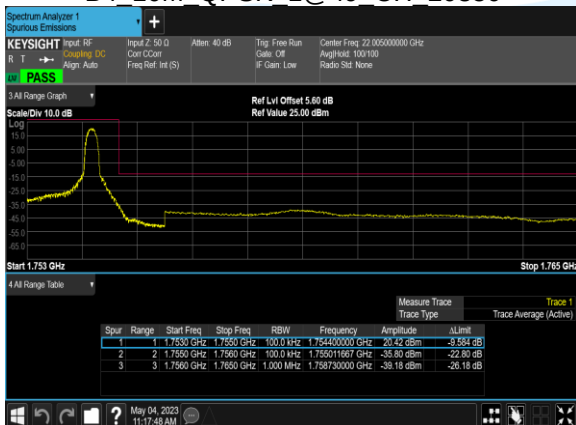
B4 10M 16QAM 1@0 CH 20000



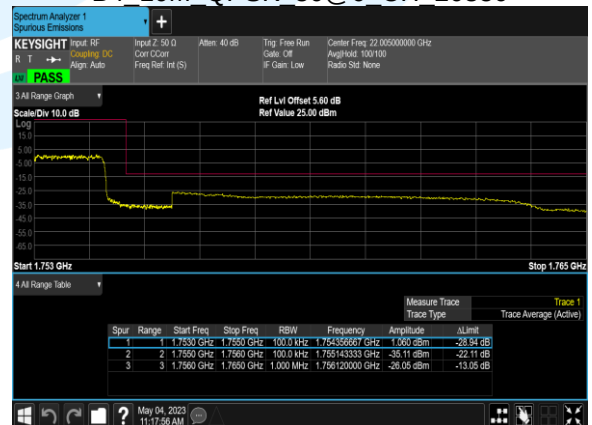
B4 10M 16QAM 50@0 CH 20000



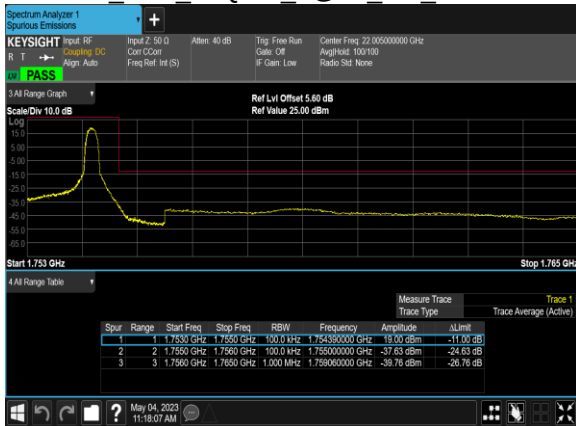
B4 10M QPSK 1@49 CH 20350



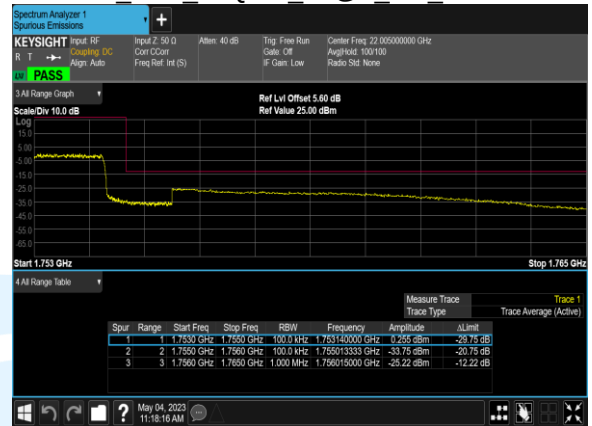
B4 10M QPSK 50@0 CH 20350



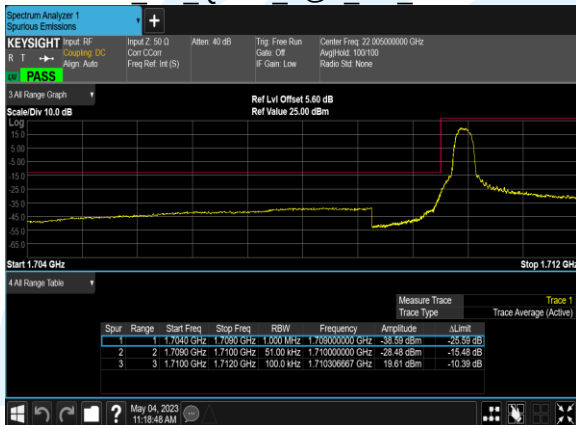
B4 10M 16QAM 1@49 CH 20350



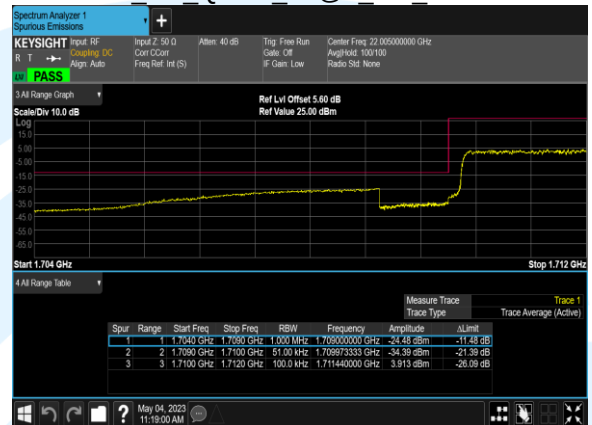
B4 10M 16QAM 50@0 CH 20350



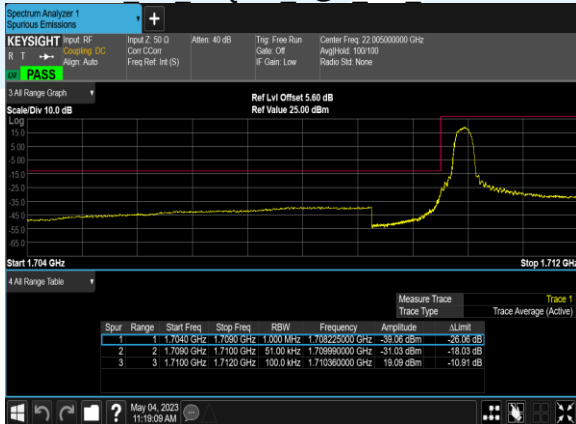
B4 5M QPSK 1@0 CH 19975



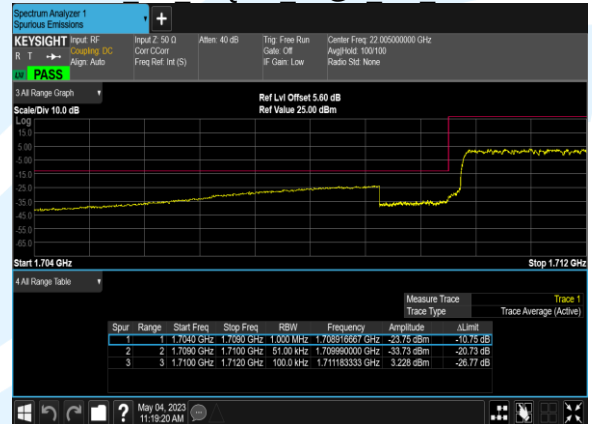
B4 5M QPSK 25@0 CH 19975



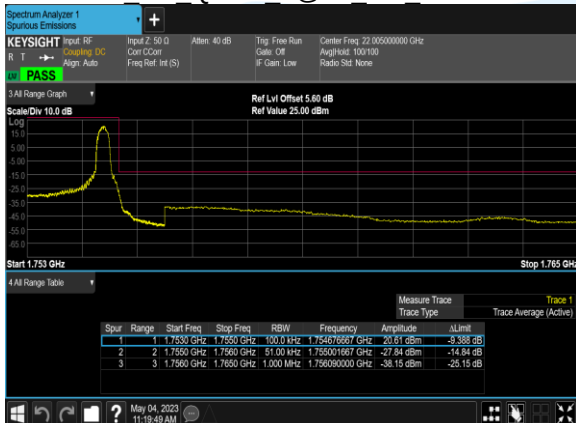
B4 5M 16QAM 1@0 CH 19975



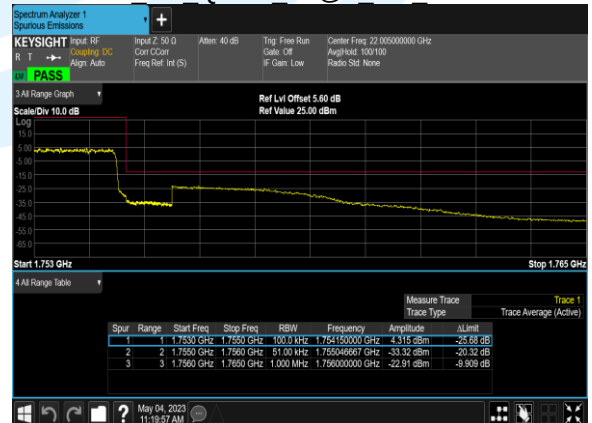
B4 5M 16QAM 25@0 CH 19975



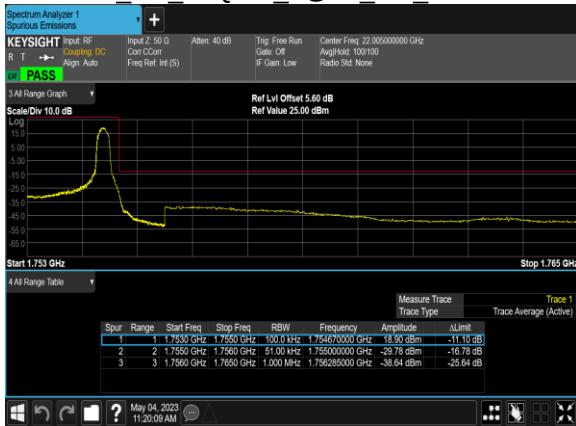
B4 5M QPSK 1@24 CH 20375



B4 5M QPSK 25@0 CH 20375



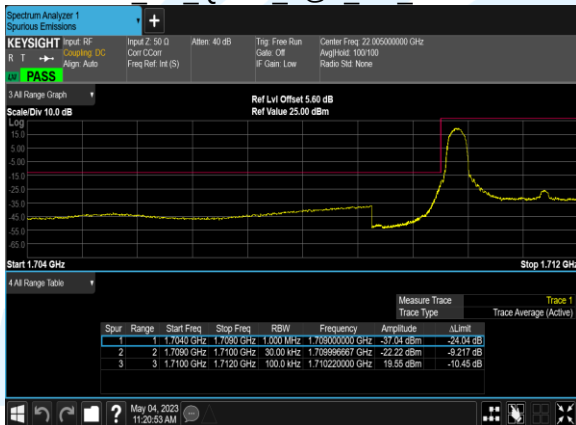
B4 5M 16QAM 1@24 CH 20375



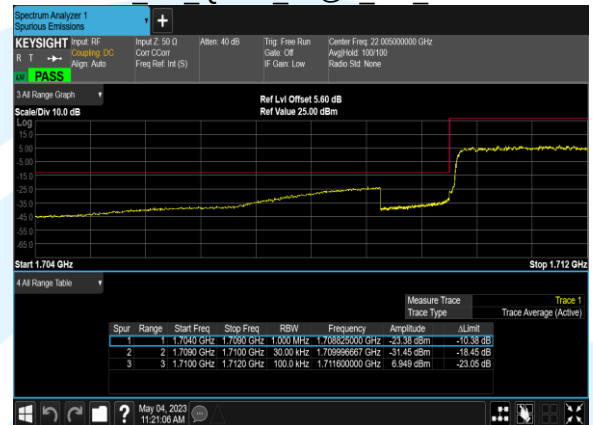
B4 5M 16QAM 25@0 CH 20375



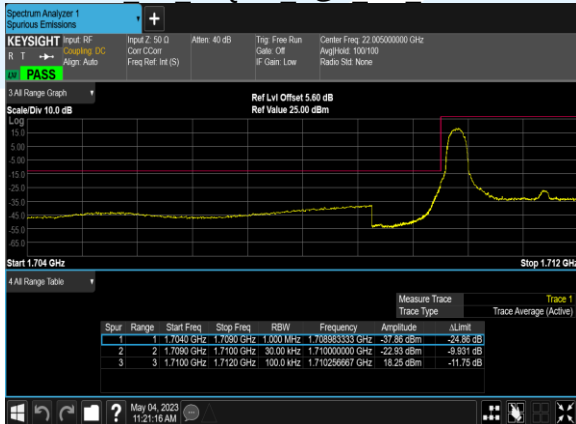
B4 3M QPSK 1@0 CH 19965



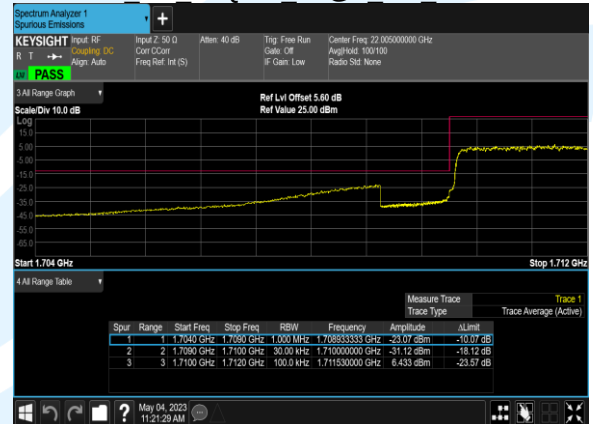
B4 3M QPSK 15@0 CH 19965



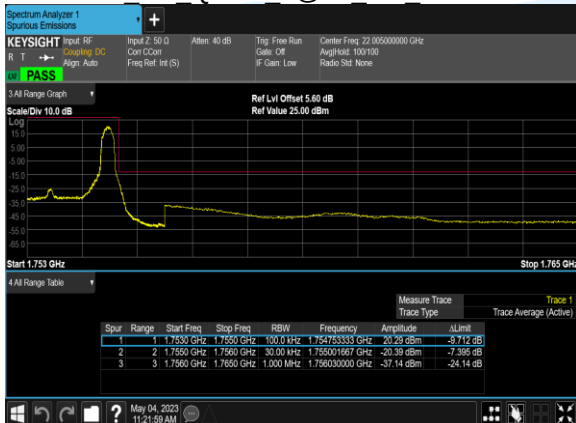
B4 3M 16QAM 1@0 CH 19965



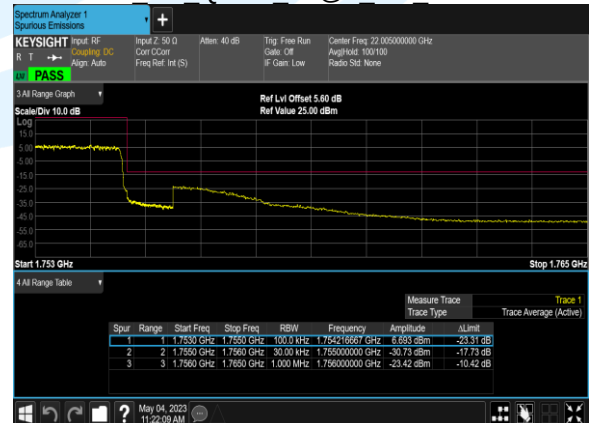
B4 3M 16QAM 15@0 CH 19965



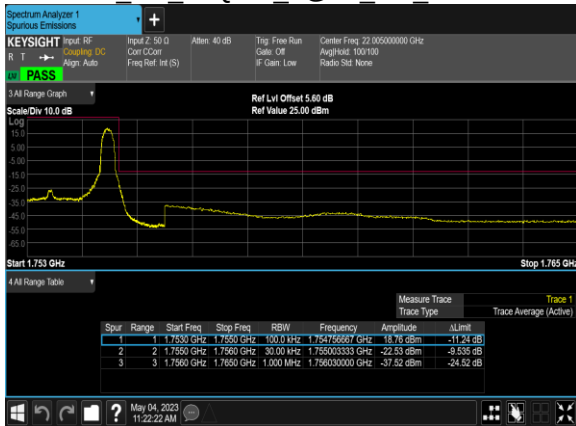
B4 3M QPSK 1@14 CH 20385



B4 3M QPSK 15@0 CH 20385



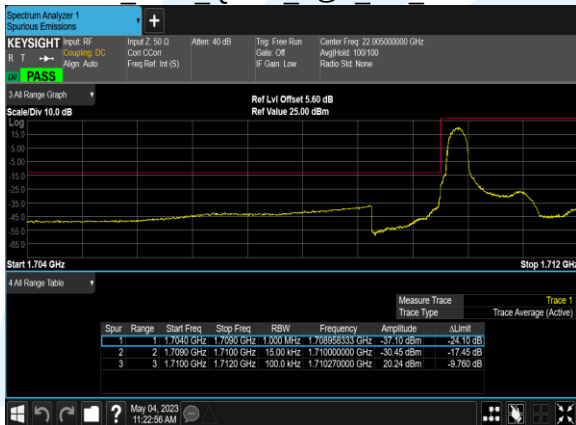
B4 3M 16QAM 1@14 CH 20385



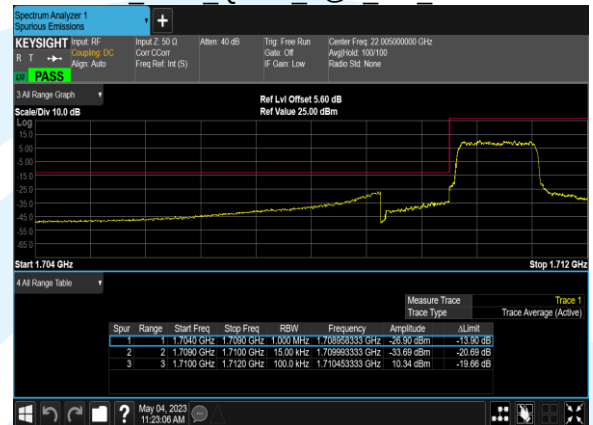
B4 3M 16QAM 15@0 CH 20385



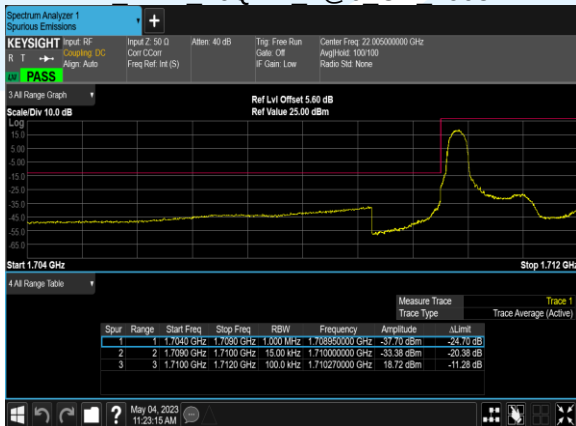
B4 1.4M QPSK 1@0 CH 19957



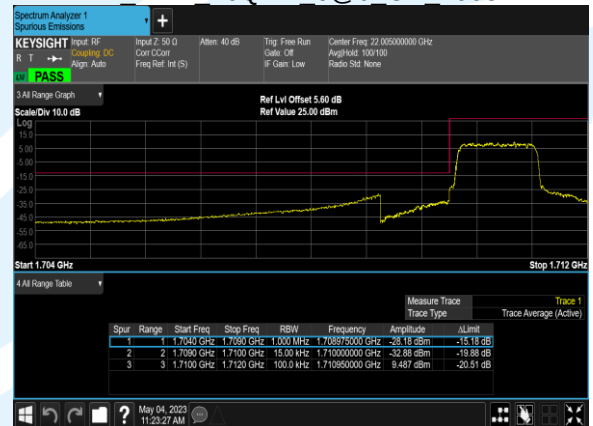
B4 1.4M QPSK 6@0 CH 19957



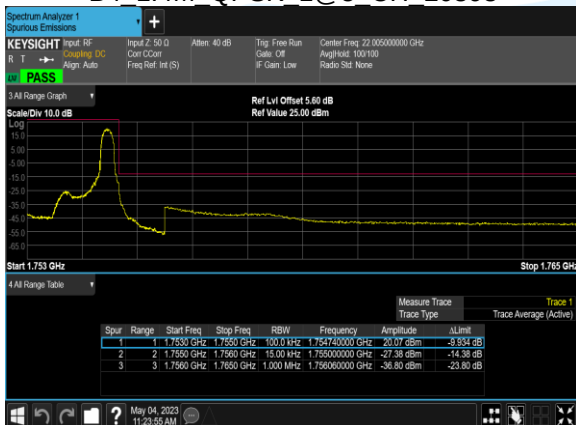
B4 1.4M 16QAM 1@0 CH 19957



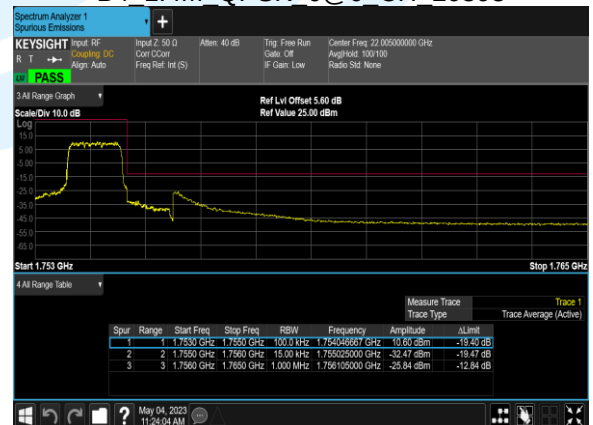
B4 1.4M 16QAM 6@0 CH 19957



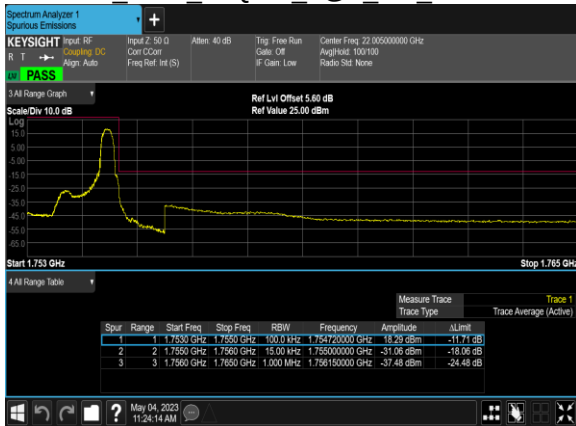
B4 1.4M QPSK 1@5 CH 20393



B4 1.4M QPSK 6@0 CH 20393



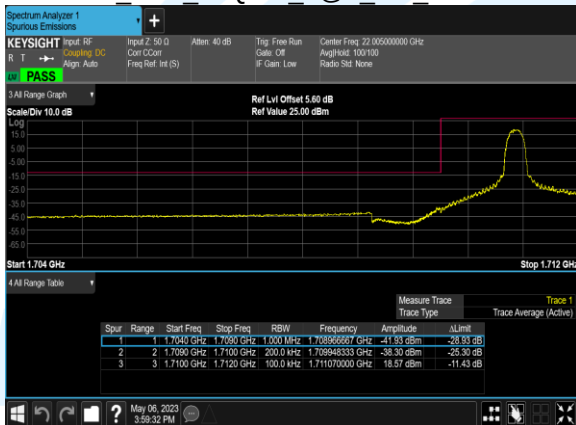
B4 1.4M 16QAM 1@5 CH 20393



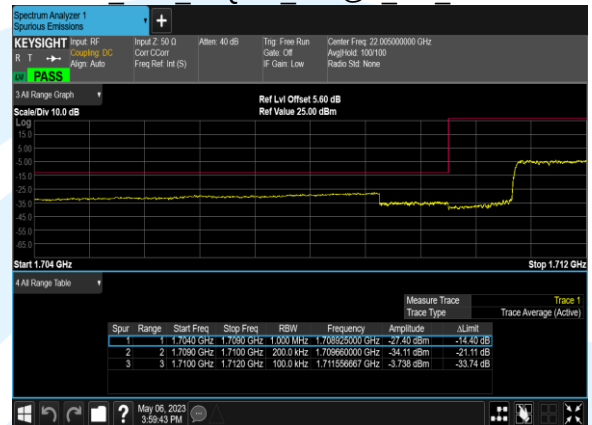
B4 1.4M 16QAM 6@0 CH 20393



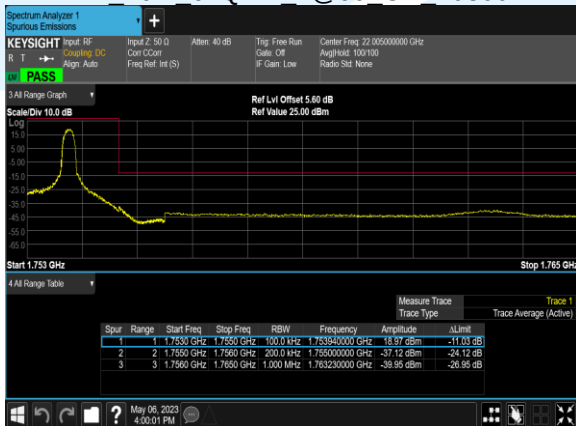
B4 20M 64QAM 1@0 CH 20050



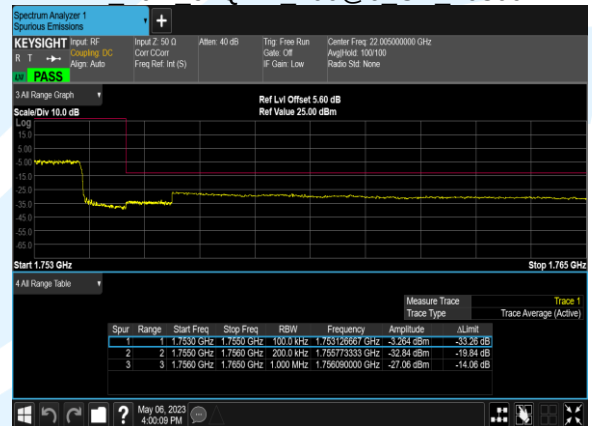
B4 20M 64QAM 100@0 CH 20050



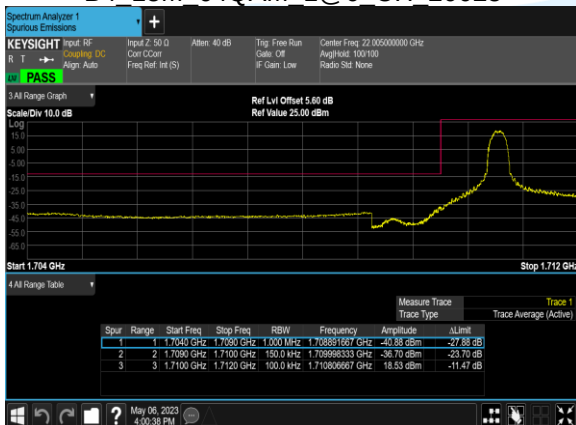
B4 20M 64QAM 1@99 CH 20300



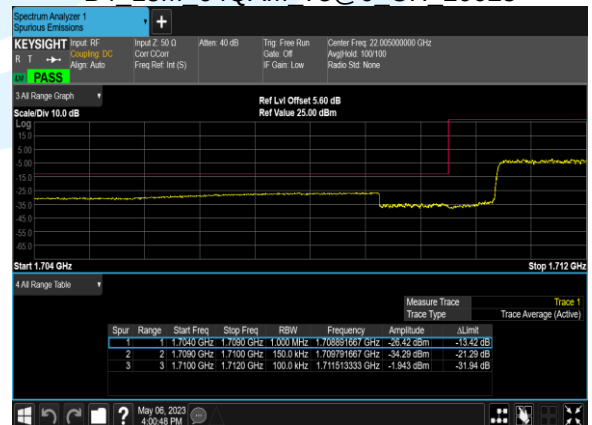
B4 20M 64QAM 100@0 CH 20300



B4 15M 64QAM 1@0 CH 20025



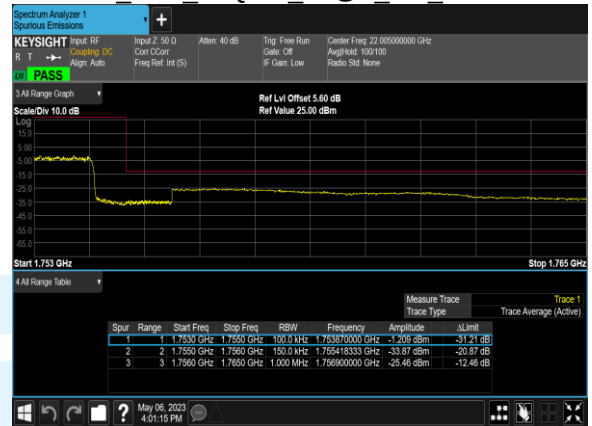
B4 15M 64QAM 75@0 CH 20025



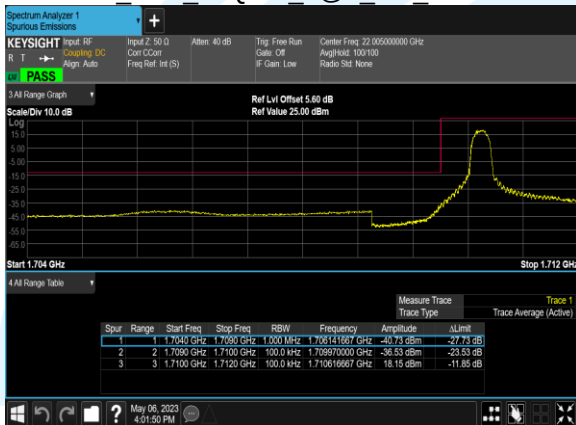
B4 15M 64QAM 1@74 CH 20325



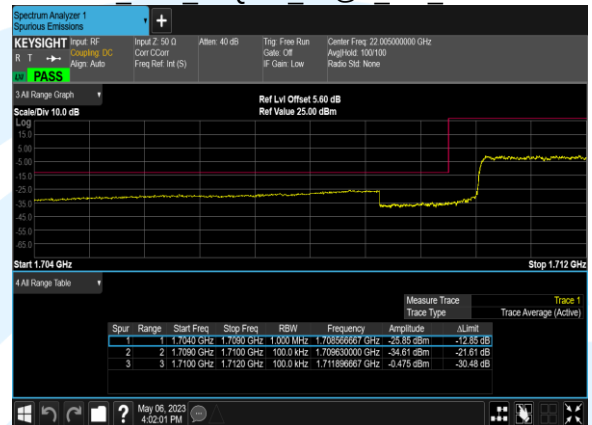
B4 15M 64QAM 75@0 CH 20325



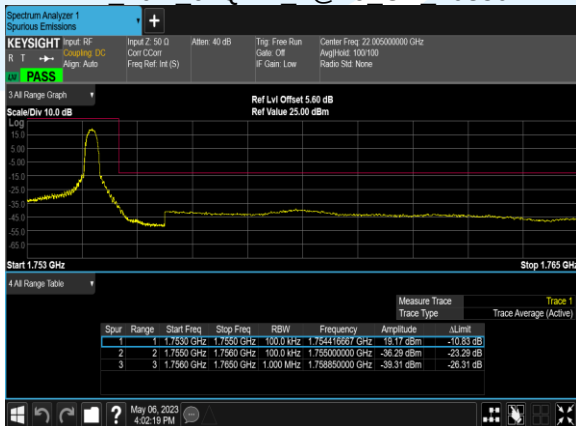
B4 10M 64QAM 1@0 CH 20000



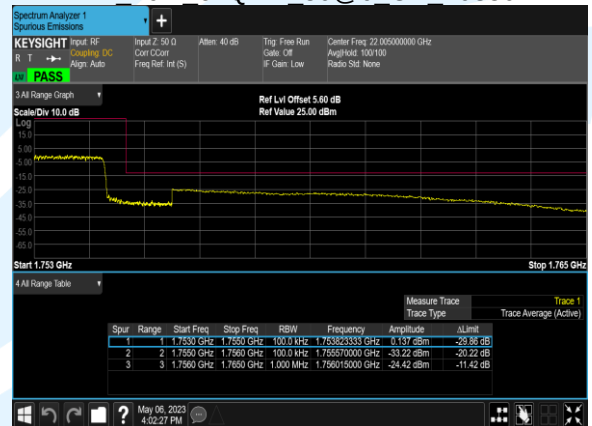
B4 10M 64QAM 50@0 CH 20000



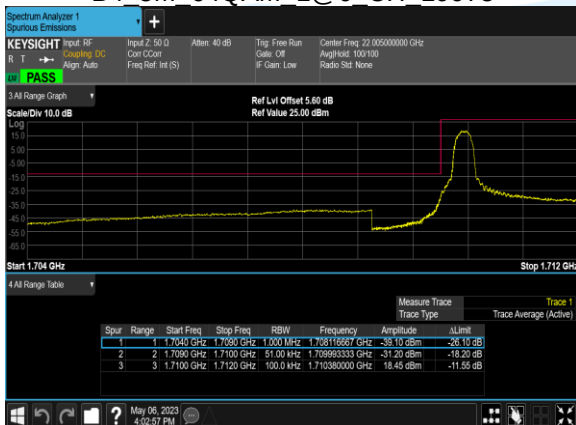
B4 10M 64QAM 1@49 CH 20350



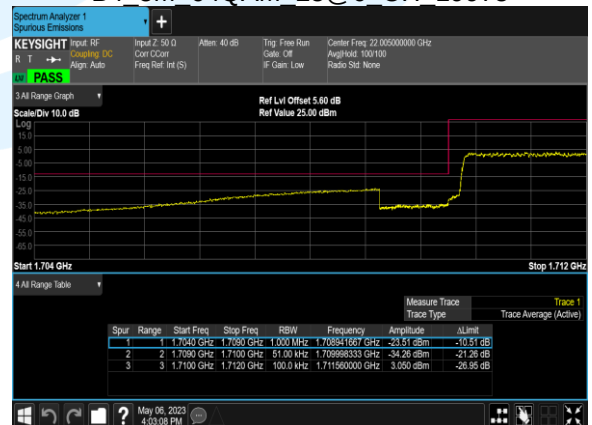
B4 10M 64QAM 50@0 CH 20350



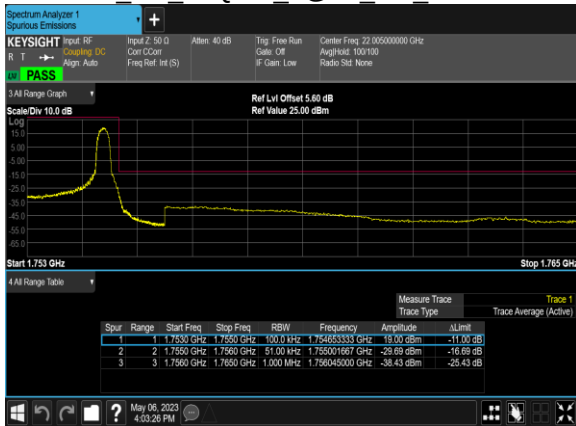
B4 5M 64QAM 1@0 CH 19975



B4 5M 64QAM 25@0 CH 19975



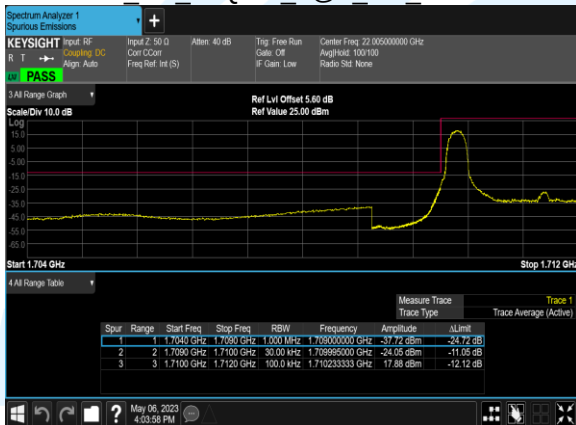
B4 5M 64QAM 1@24 CH 20375



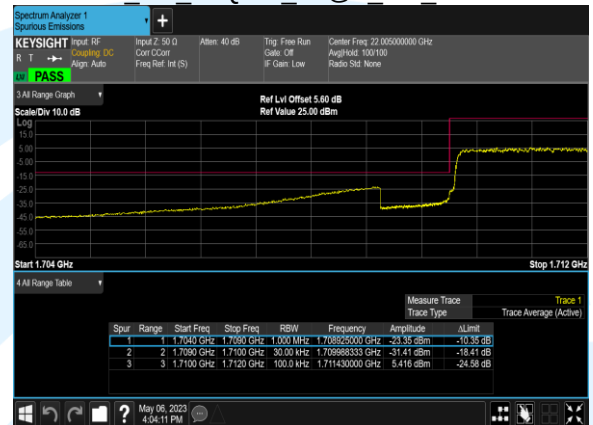
B4 5M 64QAM 25@0 CH 20375



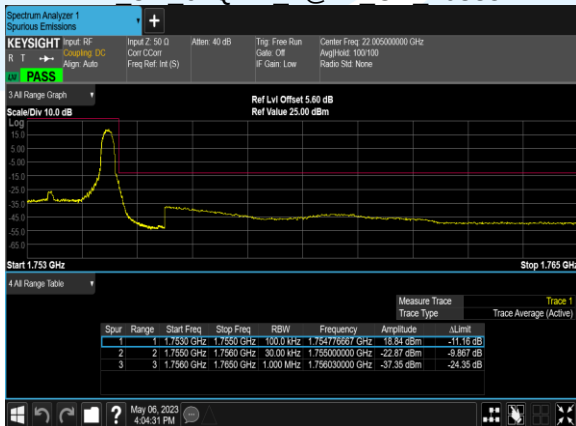
B4 3M 64QAM 1@0 CH 19965



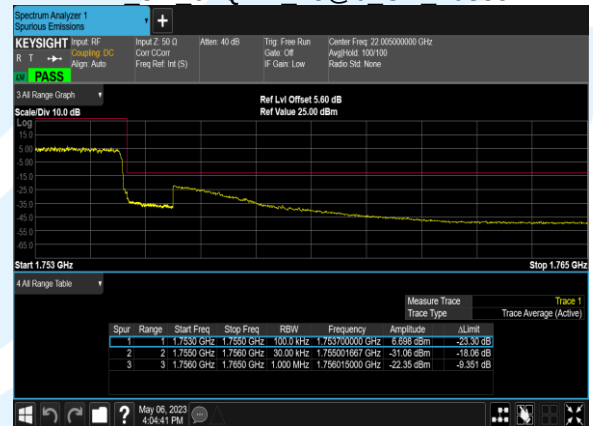
B4 3M 64QAM 15@0 CH 19965



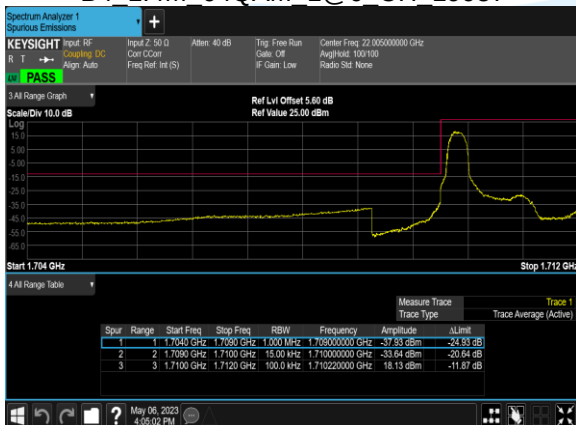
B4 3M 64QAM 1@14 CH 20385



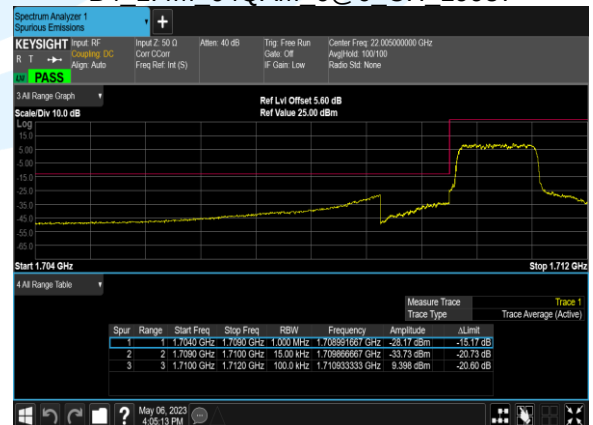
B4 3M 64QAM 15@0 CH 20385



B4 1.4M 64QAM 1@0 CH 19957



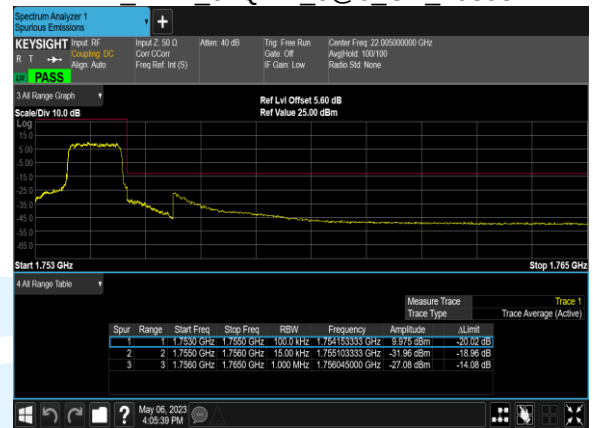
B4 1.4M 64QAM 6@0 CH 19957



B4 1.4M 64QAM 1@5 CH 20393



B4 1.4M 64QAM 6@0 CH 20393



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UTTR-RF-FCC4G-V1.1

A.3 LTE BAND 5

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	10.0	20450	829.0	QPSK	50@0	5.26	13	PASS
5	10.0	20450	829.0	16QAM	50@0	6.03	13	PASS
5	10.0	20525	836.5	QPSK	50@0	5.45	13	PASS
5	10.0	20525	836.5	16QAM	50@0	6.28	13	PASS
5	10.0	20600	844.0	QPSK	50@0	5.45	13	PASS
5	10.0	20600	844.0	16QAM	50@0	6.22	13	PASS
5	5.0	20425	826.5	QPSK	25@0	5.08	13	PASS
5	5.0	20425	826.5	16QAM	25@0	5.83	13	PASS
5	5.0	20525	836.5	QPSK	25@0	5.58	13	PASS
5	5.0	20525	836.5	16QAM	25@0	6.29	13	PASS
5	5.0	20625	846.5	QPSK	25@0	5.65	13	PASS
5	5.0	20625	846.5	16QAM	25@0	6.38	13	PASS
5	3.0	20415	825.5	QPSK	15@0	5.07	13	PASS
5	3.0	20415	825.5	16QAM	15@0	5.90	13	PASS
5	3.0	20525	836.5	QPSK	15@0	5.50	13	PASS
5	3.0	20525	836.5	16QAM	15@0	6.32	13	PASS
5	3.0	20635	847.5	QPSK	15@0	5.53	13	PASS
5	3.0	20635	847.5	16QAM	15@0	6.42	13	PASS
5	1.4	20407	824.7	QPSK	6@0	5.08	13	PASS
5	1.4	20407	824.7	16QAM	6@0	5.89	13	PASS
5	1.4	20525	836.5	QPSK	6@0	5.53	13	PASS
5	1.4	20525	836.5	16QAM	6@0	6.32	13	PASS
5	1.4	20643	848.3	QPSK	6@0	5.67	13	PASS
5	1.4	20643	848.3	16QAM	6@0	6.52	13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	10.0	20450	829.0	64QAM	50@0	6.03	13	PASS
5	10.0	20525	836.5	64QAM	50@0	6.22	13	PASS
5	10.0	20600	844.0	64QAM	50@0	6.20	13	PASS
5	5.0	20425	826.5	64QAM	25@0	5.79	13	PASS
5	5.0	20525	836.5	64QAM	25@0	6.26	13	PASS
5	5.0	20625	846.5	64QAM	25@0	6.37	13	PASS
5	3.0	20415	825.5	64QAM	15@0	5.84	13	PASS
5	3.0	20525	836.5	64QAM	15@0	6.28	13	PASS
5	3.0	20635	847.5	64QAM	15@0	6.46	13	PASS
5	1.4	20407	824.7	64QAM	6@0	5.83	13	PASS
5	1.4	20525	836.5	64QAM	6@0	6.26	13	PASS
5	1.4	20643	848.3	64QAM	6@0	6.45	13	PASS

Test Graphs

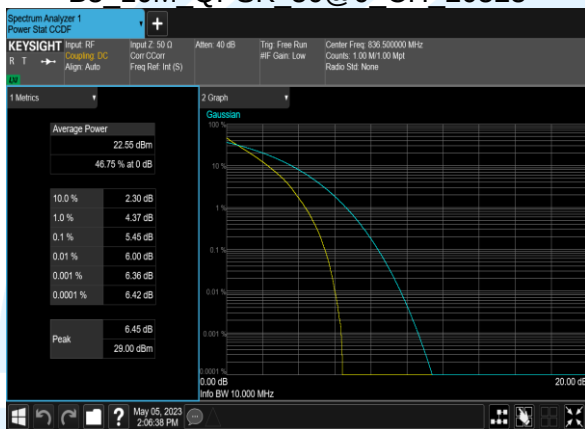
B5 10M QPSK 50@0 CH 20450



B5 10M 16QAM 50@0 CH 20450



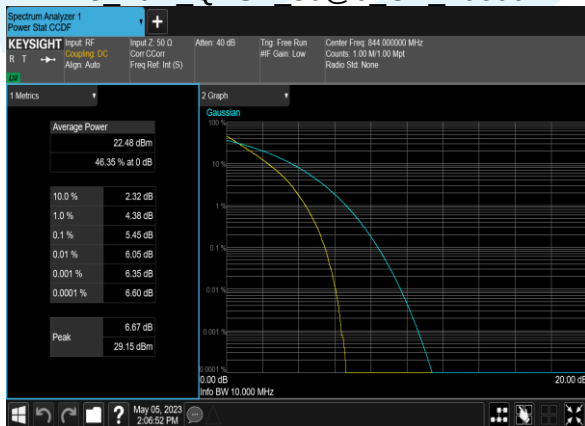
B5 10M QPSK 50@0 CH 20525



B5 10M 16QAM 50@0 CH 20525



B5 10M QPSK 50@0 CH 20600



B5 10M 16QAM 50@0 CH 20600



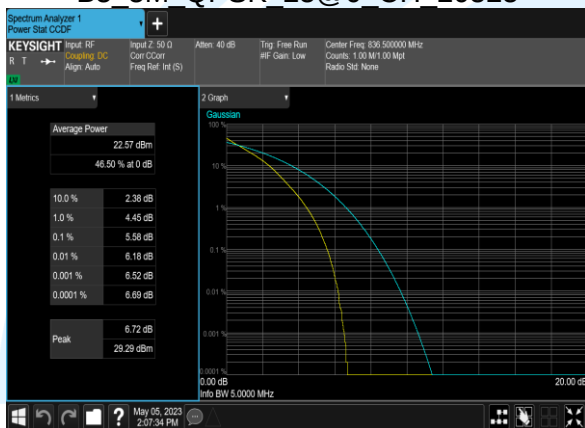
B5 5M QPSK 25@0 CH 20425



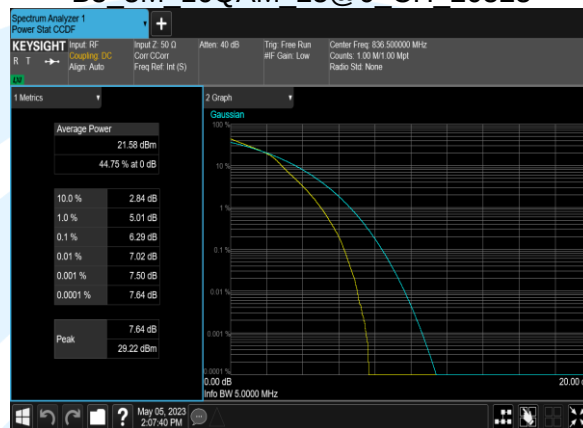
B5 5M 16QAM 25@0 CH 20425



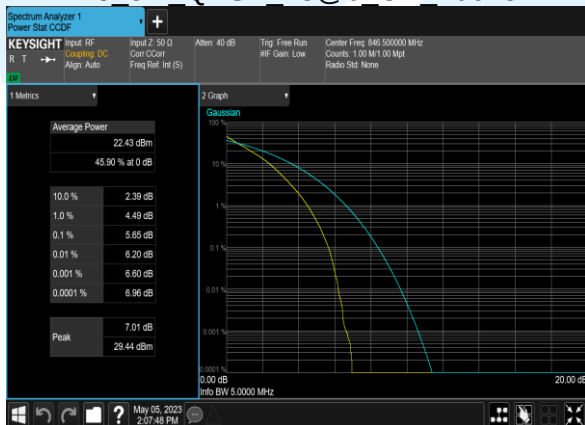
B5 5M QPSK 25@0 CH 20525



B5 5M 16QAM 25@0 CH 20525



B5 5M QPSK 25@0 CH 20625



B5 5M 16QAM 25@0 CH 20625



B5 3M QPSK 15@0 CH 20415



B5 3M 16QAM 15@0 CH 20415



B5_3M_QPSK_15@0_CH_20525



B5_3M_16QAM_15@0_CH_20525



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



B5_1.4M_16QAM_6@0_CH_20525

