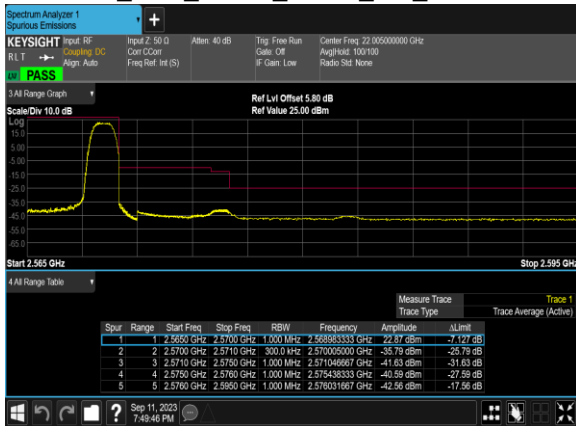
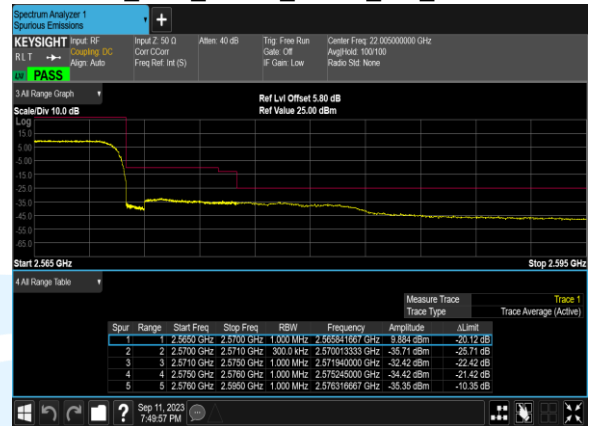


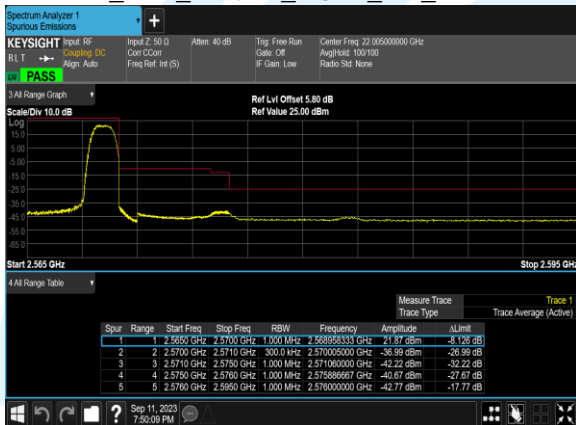
B7_15M_QPSK_1@74_CH_21375



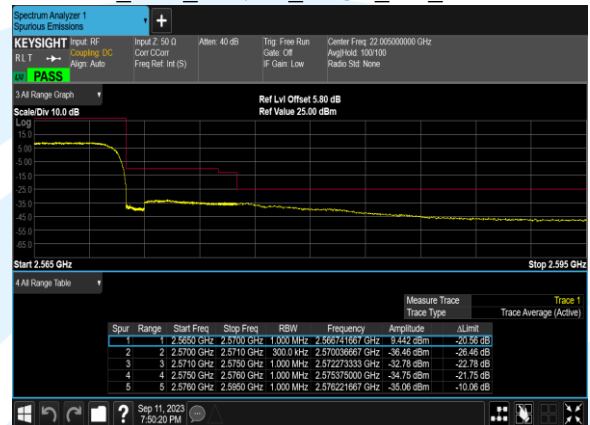
B7_15M_QPSK_75@0_CH_21375



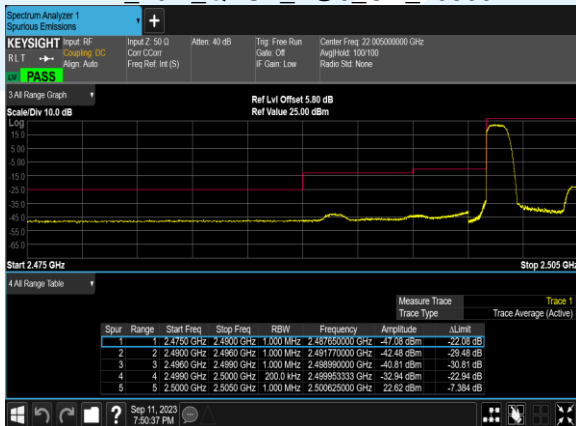
B7_15M_16QAM_1@74_CH_21375



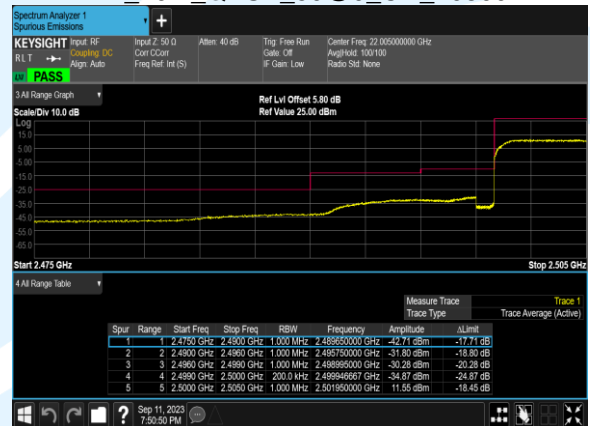
B7_15M_16QAM_75@0_CH_21375



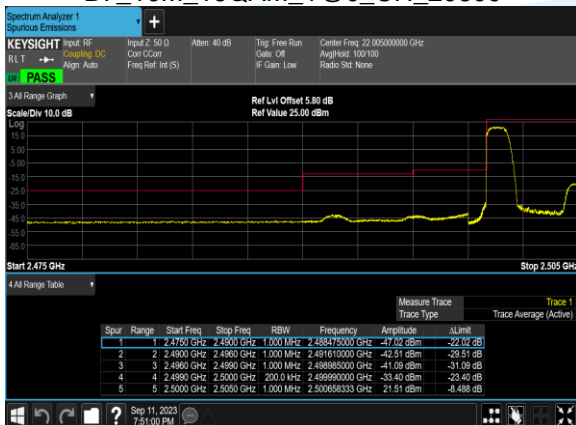
B7_10M_QPSK_1@0_CH_20800



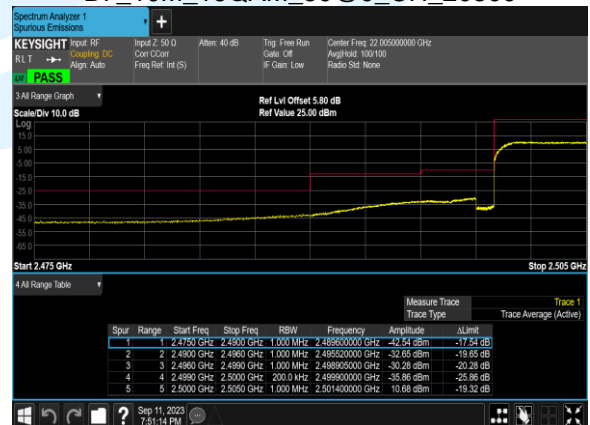
B7_10M_QPSK_50@0_CH_20800



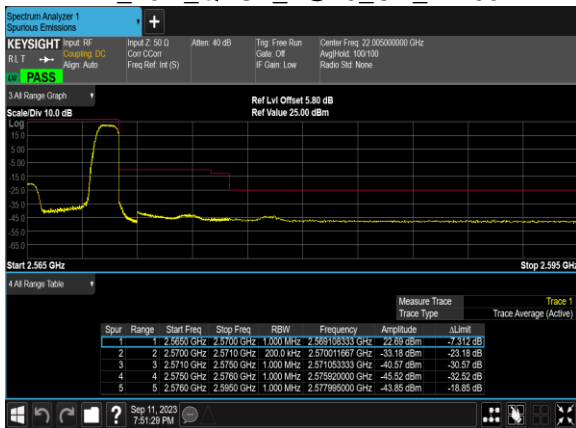
B7_10M_16QAM_1@0_CH_20800



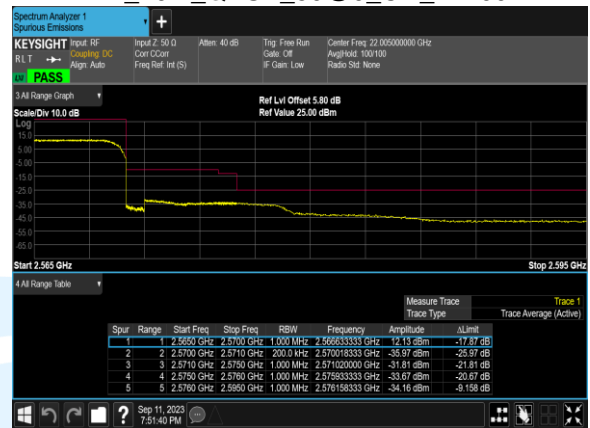
B7_10M_16QAM_50@0_CH_20800



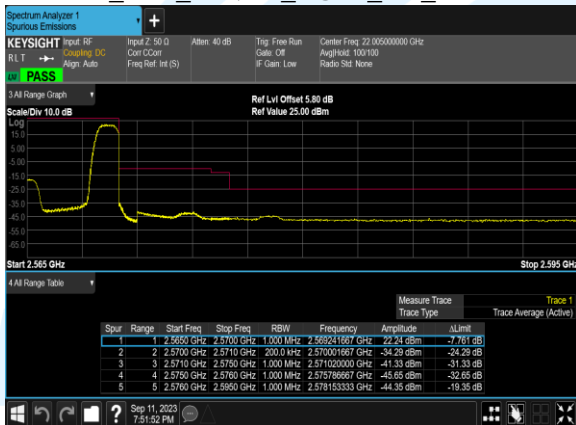
B7_10M_QPSK_1@49_CH_21400



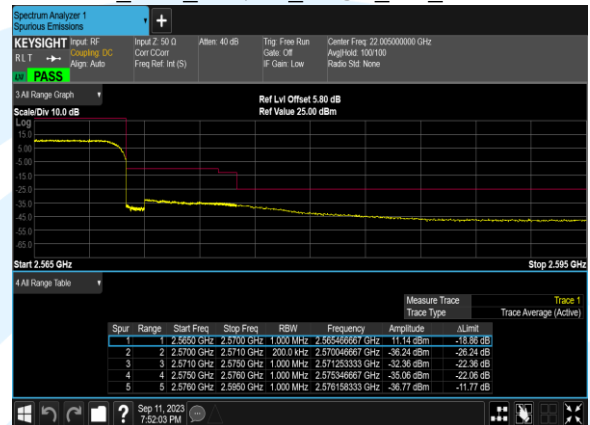
B7_10M_QPSK_50@0_CH_21400



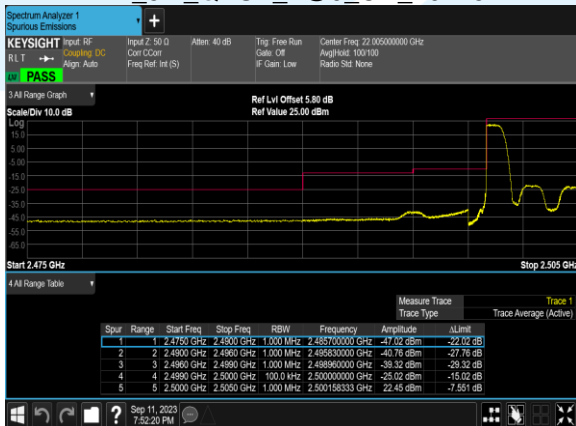
B7_10M_16QAM_1@49_CH_21400



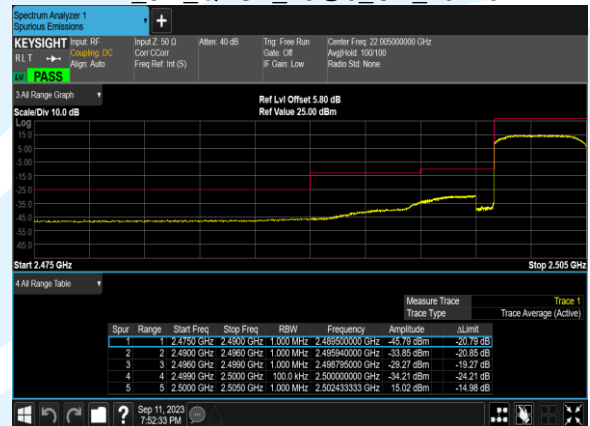
B7_10M_16QAM_50@0_CH_21400



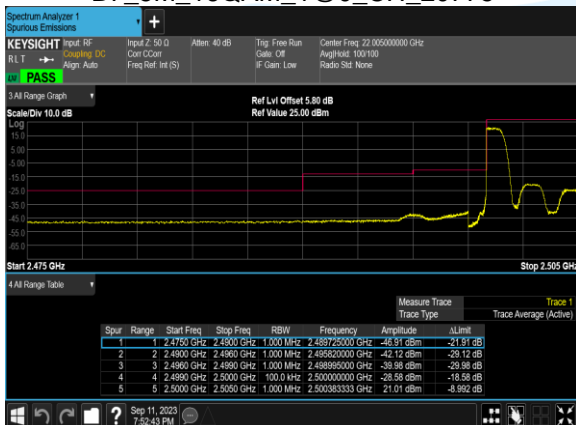
B7_5M_QPSK_1@0_CH_20775



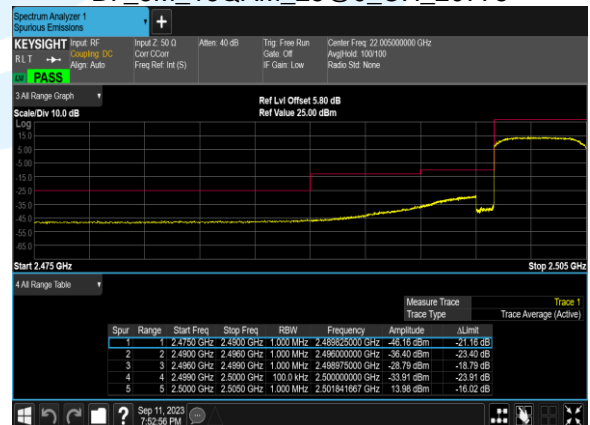
B7_5M_QPSK_25@0_CH_20775



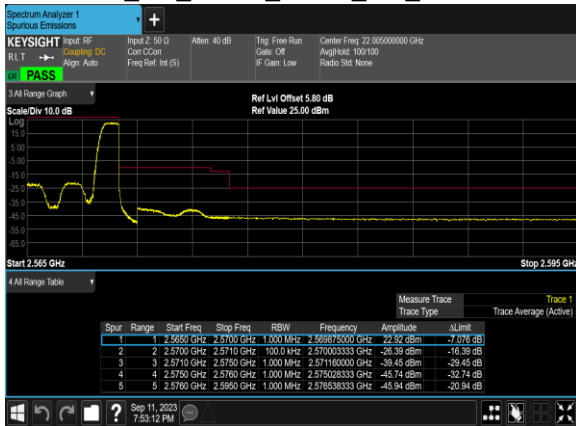
B7_5M_16QAM_1@0_CH_20775



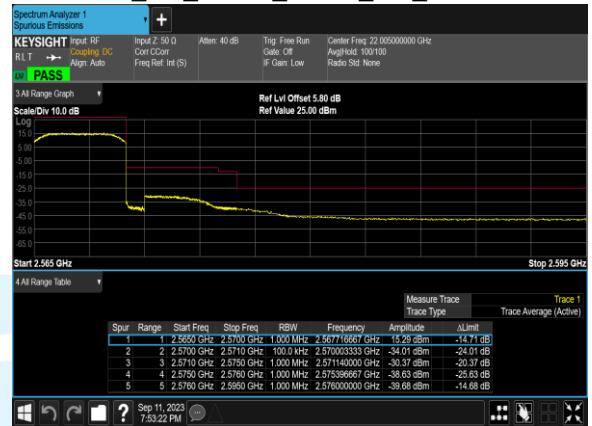
B7_5M_16QAM_25@0_CH_20775



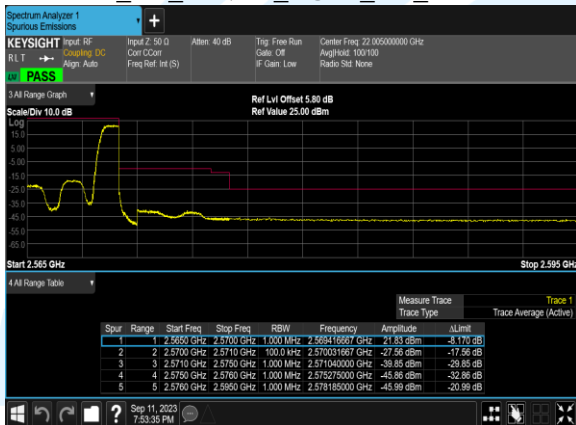
B7_5M_QPSK_1@24_CH_21425



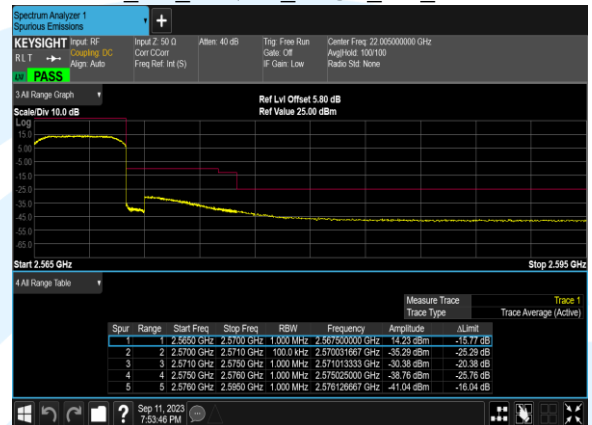
B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_1@24_CH_21425



B7_5M_16QAM_25@0_CH_21425



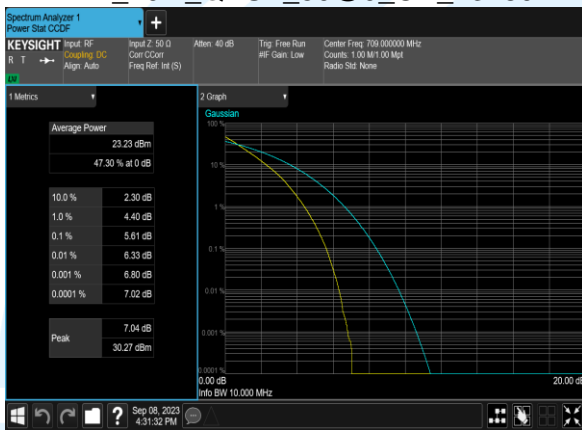
A.5 LTE BAND 17

Peak to Average Ratio

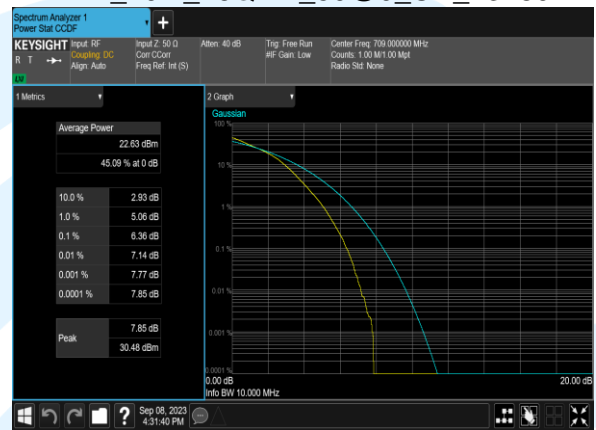
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
17	10.0	23780	709.0	QPSK	50@0	5.61	13	PASS
17	10.0	23780	709.0	16QAM	50@0	6.36	13	PASS
17	10.0	23790	710.0	QPSK	50@0	5.63	13	PASS
17	10.0	23790	710.0	16QAM	50@0	6.36	13	PASS
17	10.0	23800	711.0	QPSK	50@0	5.66	13	PASS
17	10.0	23800	711.0	16QAM	50@0	6.39	13	PASS
17	5.0	23755	706.5	QPSK	25@0	5.74	13	PASS
17	5.0	23755	706.5	16QAM	25@0	6.43	13	PASS
17	5.0	23790	710.0	QPSK	25@0	5.68	13	PASS
17	5.0	23790	710.0	16QAM	25@0	6.31	13	PASS
17	5.0	23825	713.5	QPSK	25@0	5.73	13	PASS
17	5.0	23825	713.5	16QAM	25@0	6.47	13	PASS

Test Graphs

B17_10M_QPSK_50@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



B17_10M_QPSK_50@0_CH_23790



B17_10M_16QAM_50@0_CH_23790



B17_10M_QPSK_50@0_CH_23800



B17_10M_16QAM_50@0_CH_23800



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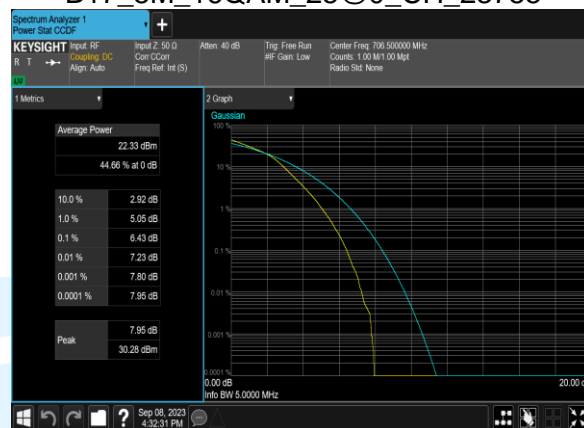
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B17_5M_QPSK_25@0_CH_23755



B17_5M_16QAM_25@0_CH_23755



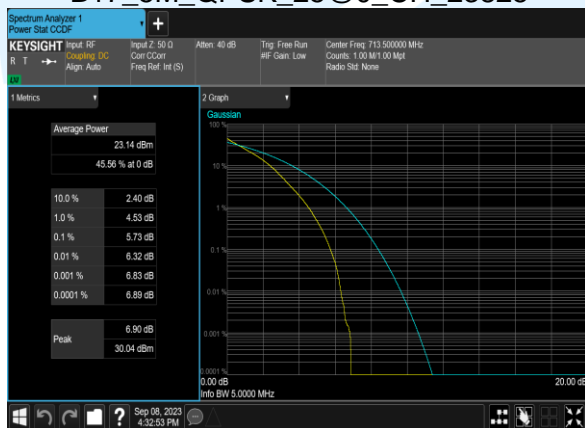
B17_5M_QPSK_25@0_CH_23790



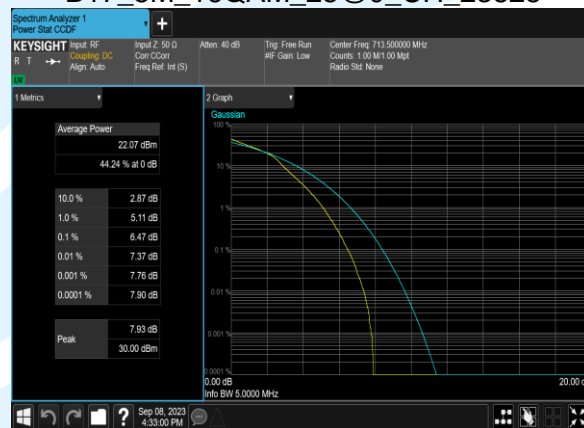
B17_5M_16QAM_25@0_CH_23790



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825



Occupied Bandwidth

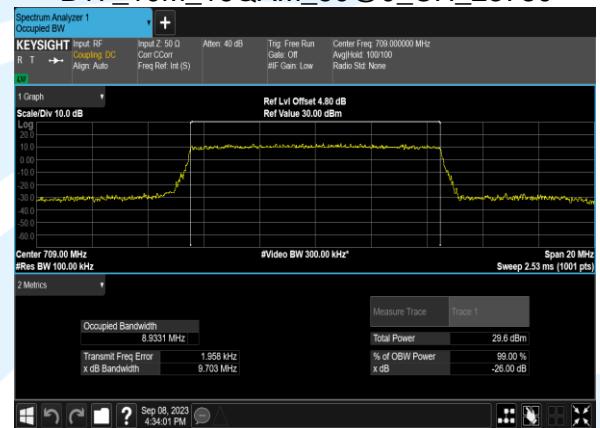
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
17	10.0	23780	709.0	QPSK	50@0	8.9079	9.641
17	10.0	23780	709.0	16QAM	50@0	8.9331	9.703
17	10.0	23790	710.0	QPSK	50@0	8.9117	9.516
17	10.0	23790	710.0	16QAM	50@0	8.9061	9.659
17	10.0	23800	711.0	QPSK	50@0	8.9405	9.654
17	10.0	23800	711.0	16QAM	50@0	8.9500	9.782
17	5.0	23755	706.5	QPSK	25@0	4.4617	4.853
17	5.0	23755	706.5	16QAM	25@0	4.4542	4.879
17	5.0	23790	710.0	QPSK	25@0	4.4527	4.868
17	5.0	23790	710.0	16QAM	25@0	4.4535	4.877
17	5.0	23825	713.5	QPSK	25@0	4.4579	4.870
17	5.0	23825	713.5	16QAM	25@0	4.4707	4.882

Test Graphs

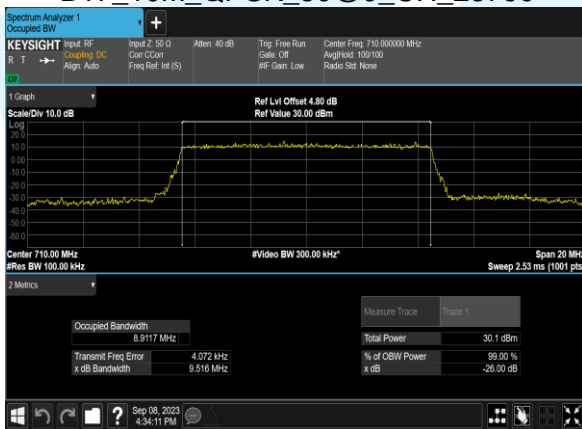
B17_10M_QPSK_50@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



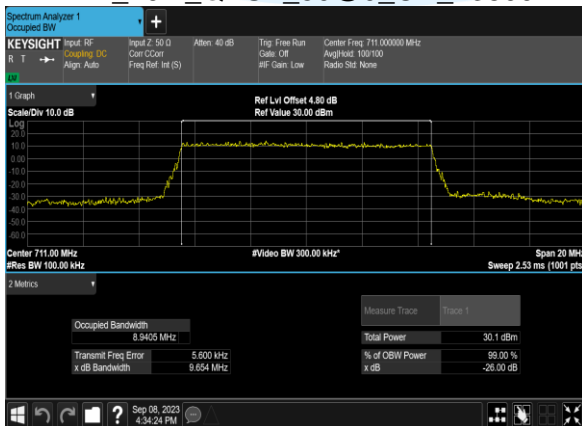
B17_10M_QPSK_50@0_CH_23790



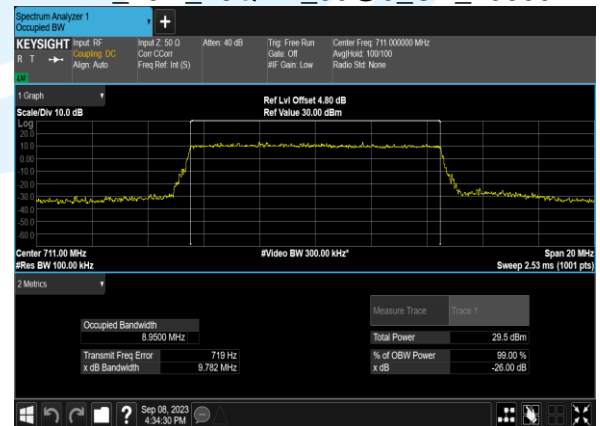
B17_10M_16QAM_50@0_CH_23790



B17_10M_QPSK_50@0_CH_23800



B17_10M_16QAM_50@0_CH_23800



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B17_5M_QPSK_25@0_CH_23755



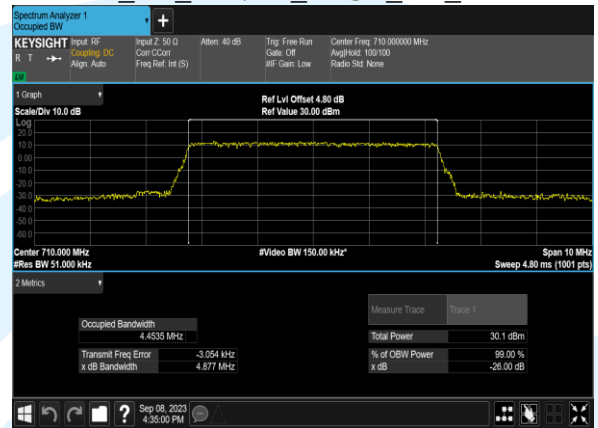
B17_5M_16QAM_25@0_CH_23755



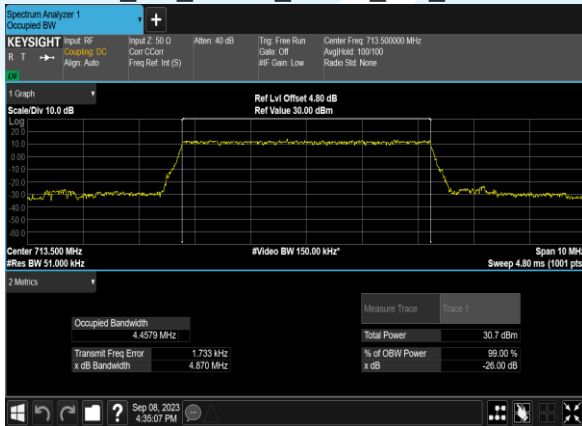
B17_5M_QPSK_25@0_CH_23790



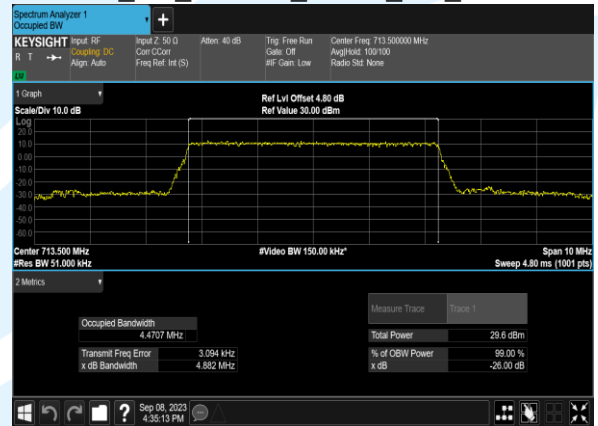
B17_5M_16QAM_25@0_CH_23790



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825

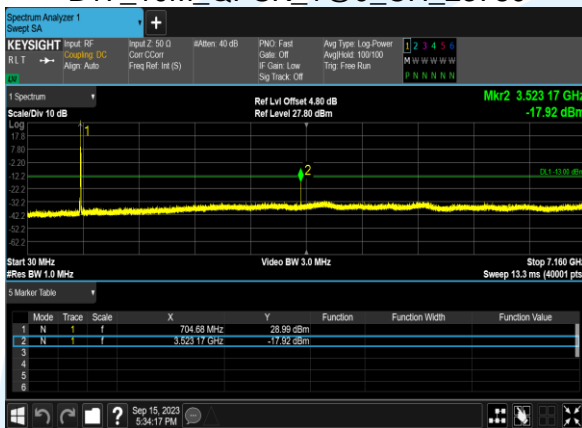


Conducted Spurious Emissions

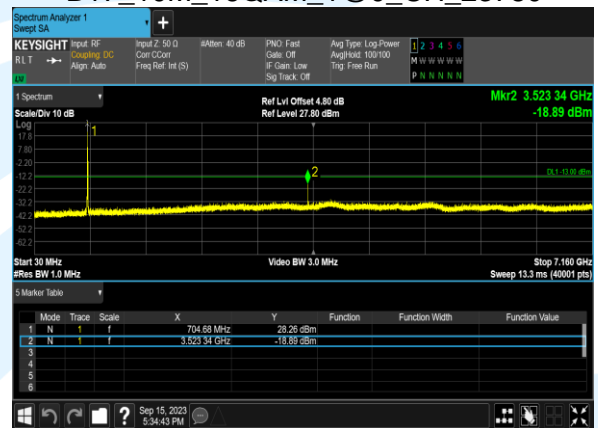
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
17	10.0	23780	709.0	QPSK	1@0	-17.92	-13	PASS
17	10.0	23780	709.0	16QAM	1@0	-18.89	-13	PASS
17	10.0	23790	710.0	QPSK	1@0	-17.01	-13	PASS
17	10.0	23790	710.0	16QAM	1@0	-15.94	-13	PASS
17	10.0	23800	711.0	QPSK	1@0	-17.19	-13	PASS
17	10.0	23800	711.0	16QAM	1@0	-15.89	-13	PASS
17	5.0	23755	706.5	QPSK	1@0	-18.41	-13	PASS
17	5.0	23755	706.5	16QAM	1@0	-17.51	-13	PASS
17	5.0	23790	710.0	QPSK	1@0	-18.49	-13	PASS
17	5.0	23790	710.0	16QAM	1@0	-18.96	-13	PASS
17	5.0	23825	713.5	QPSK	1@0	-19.92	-13	PASS
17	5.0	23825	713.5	16QAM	1@0	-21.08	-13	PASS

Test Graphs

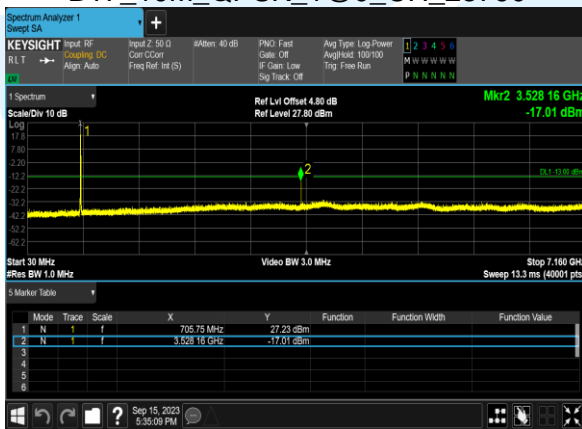
B17_10M_QPSK_1@0_CH_23780



B17_10M_16QAM_1@0_CH_23780



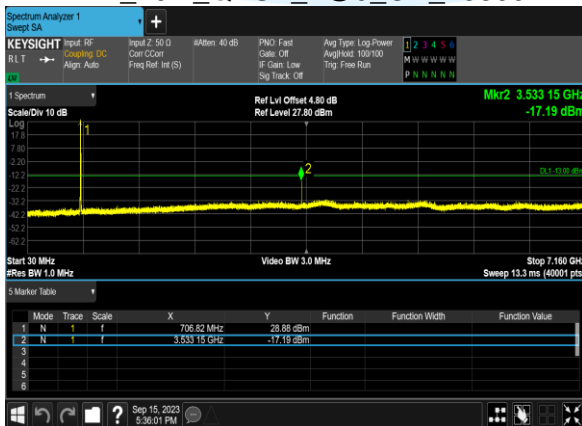
B17_10M_QPSK_1@0_CH_23790



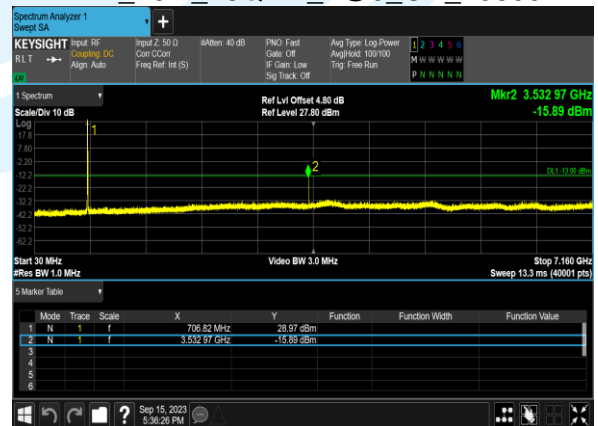
B17_10M_16QAM_1@0_CH_23790



B17_10M_QPSK_1@0_CH_23800



B17_10M_16QAM_1@0_CH_23800



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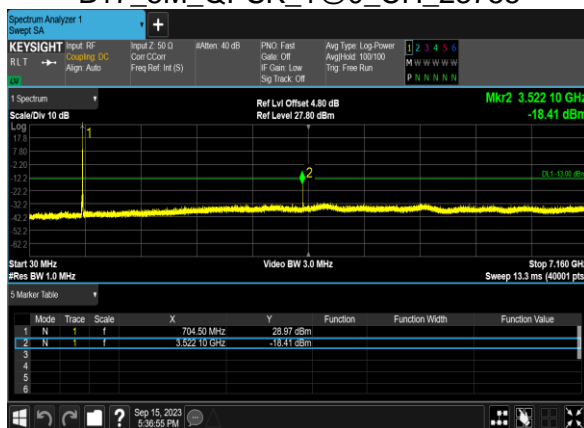
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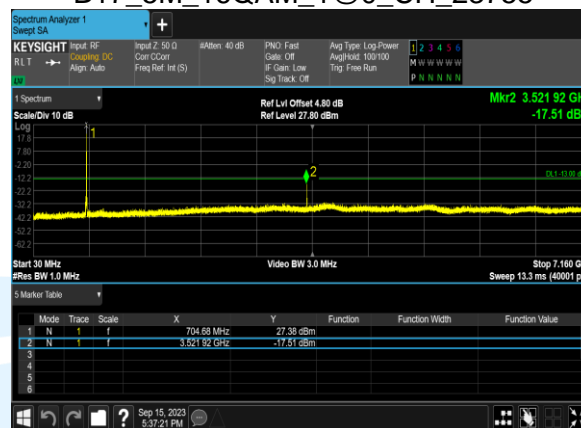
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B17_5M_QPSK_1@0_CH_23755



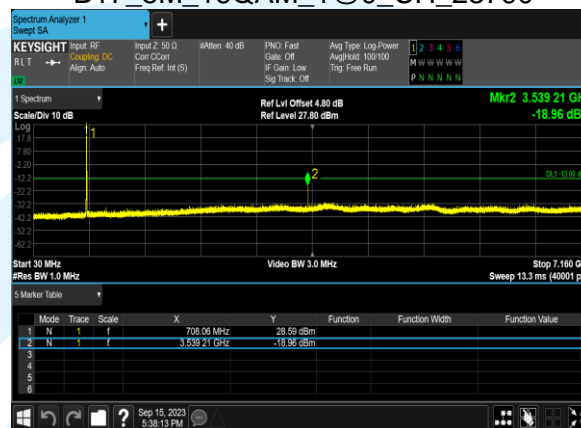
B17_5M_16QAM_1@0_CH_23755



B17_5M_QPSK_1@0_CH_23790



B17_5M_16QAM_1@0_CH_23790



B17_5M_QPSK_1@0_CH_23825



B17_5M_16QAM_1@0_CH_23825

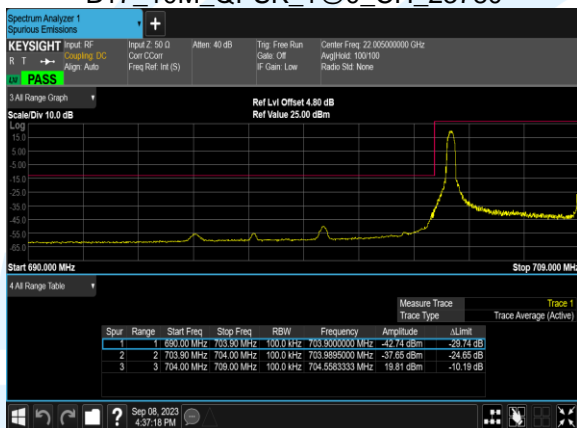


Conducted Band Edge

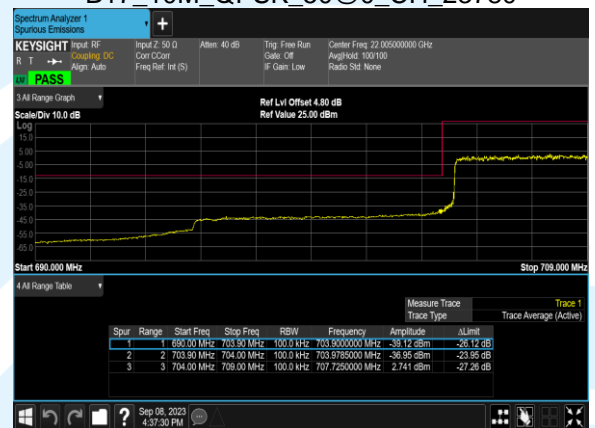
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
17	10.0	23780	709.0	QPSK	1@0	see graph	PASS
17	10.0	23780	709.0	QPSK	50@0	see graph	PASS
17	10.0	23780	709.0	16QAM	1@0	see graph	PASS
17	10.0	23780	709.0	16QAM	50@0	see graph	PASS
17	10.0	23800	711.0	QPSK	1@49	see graph	PASS
17	10.0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

Test Graphs

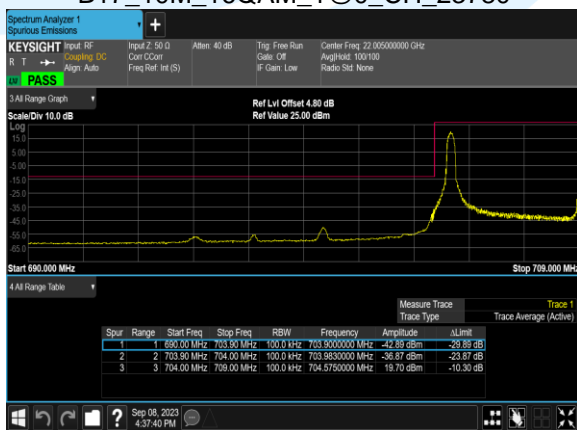
B17_10M_QPSK_1@0_CH_23780



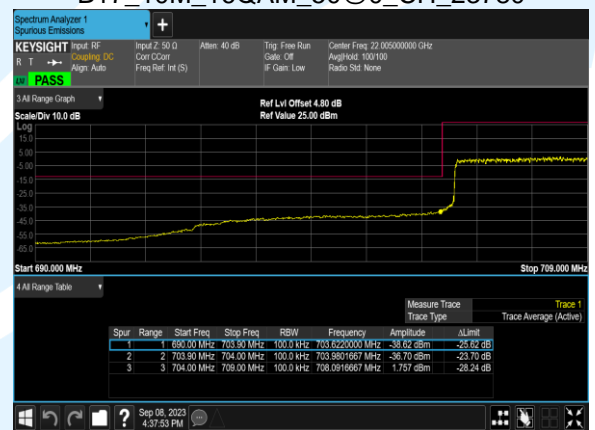
B17_10M_QPSK_50@0_CH_23780



B17_10M_16QAM_1@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



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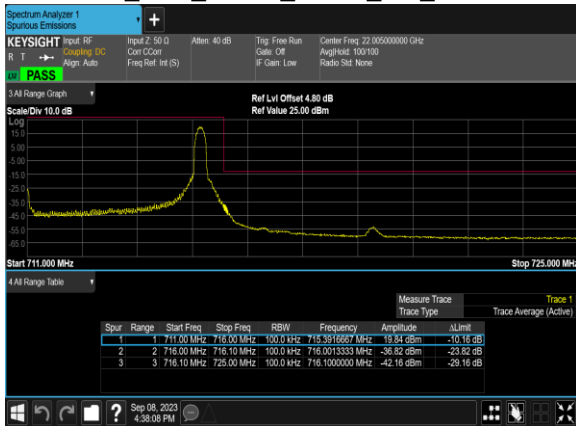
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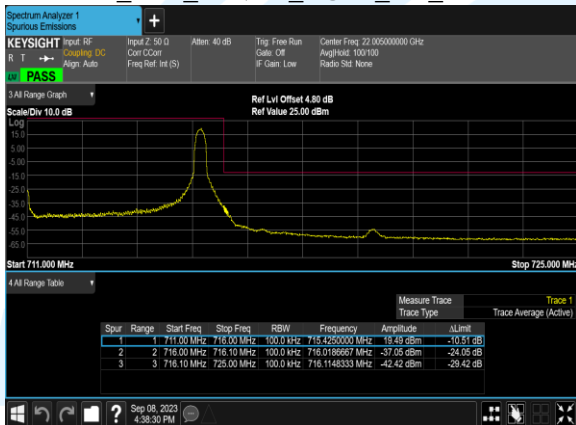
B17_10M_QPSK_1@49_CH_23800



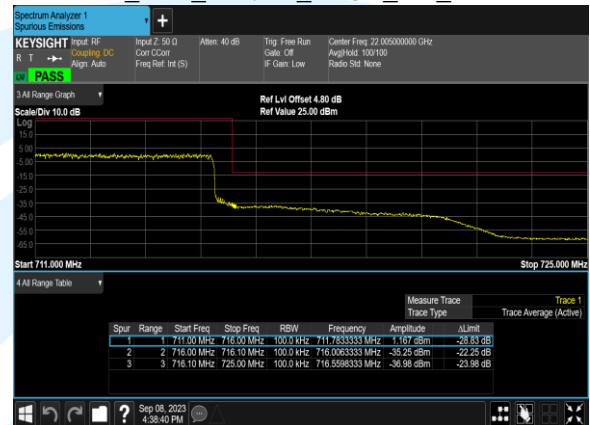
B17_10M_QPSK_50@0_CH_23800



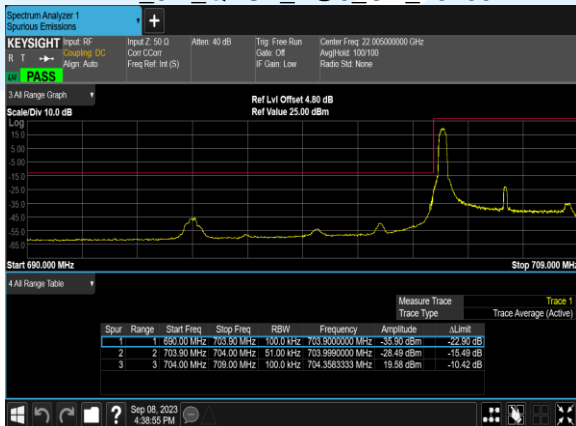
B17_10M_16QAM_1@49_CH_23800



B17_10M_16QAM_50@0_CH_23800



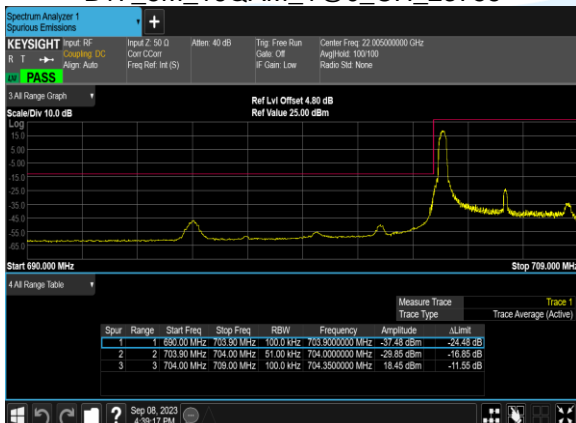
B17_5M_QPSK_1@0_CH_23755



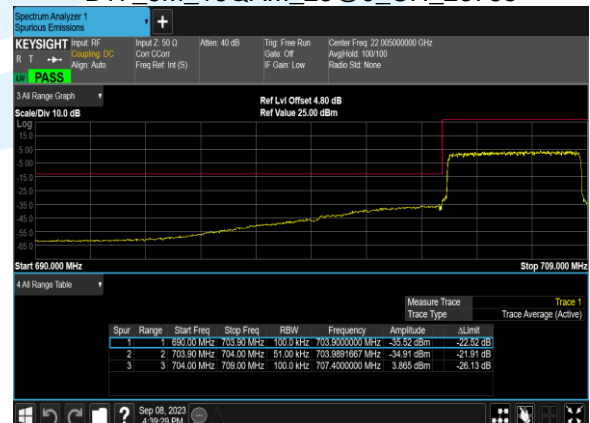
B17_5M_QPSK_25@0_CH_23755



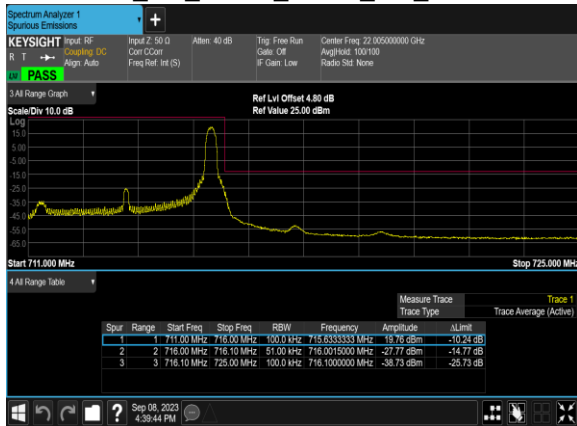
B17_5M_16QAM_1@0_CH_23755



B17_5M_16QAM_25@0_CH_23755



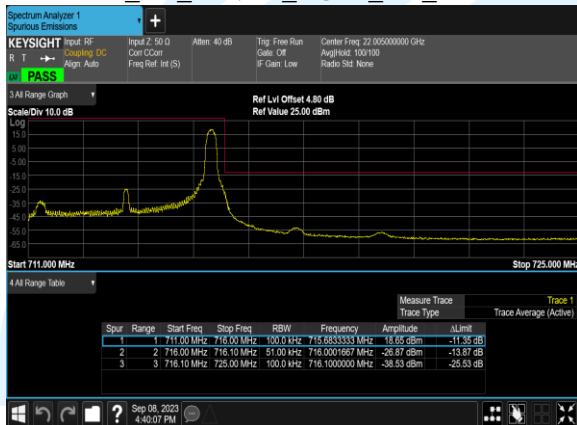
B17_5M_QPSK_1@24_CH_23825



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_1@24_CH_23825



B17_5M_16QAM_25@0_CH_23825



A.6 LTE BAND 38

Peak to Average Ratio

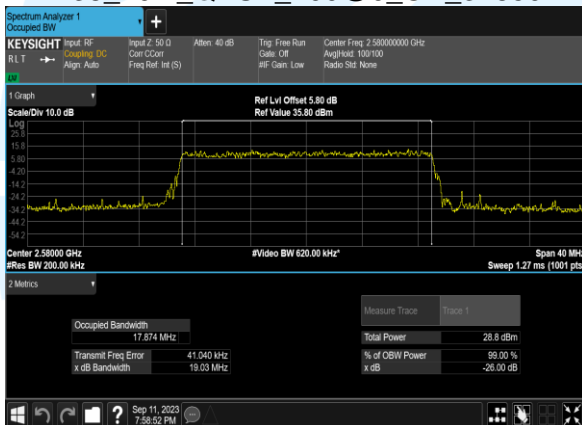
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
38	20.0	37850	2580.0	QPSK	100@0	6.52	13	PASS
38	20.0	37850	2580.0	16QAM	100@0	8.03	13	PASS
38	20.0	38000	2595.0	QPSK	100@0	6.41	13	PASS
38	20.0	38000	2595.0	16QAM	100@0	7.45	13	PASS
38	20.0	38150	2610.0	QPSK	100@0	6.40	13	PASS
38	20.0	38150	2610.0	16QAM	100@0	7.06	13	PASS
38	15.0	37825	2577.5	QPSK	75@0	6.66	13	PASS
38	15.0	37825	2577.5	16QAM	75@0	7.85	13	PASS
38	15.0	38000	2595.0	QPSK	75@0	6.38	13	PASS
38	15.0	38000	2595.0	16QAM	75@0	7.33	13	PASS
38	15.0	38175	2612.5	QPSK	75@0	6.55	13	PASS
38	15.0	38175	2612.5	16QAM	75@0	7.33	13	PASS
38	10.0	37800	2575.0	QPSK	50@0	6.23	13	PASS
38	10.0	37800	2575.0	16QAM	50@0	7.49	13	PASS
38	10.0	38000	2595.0	QPSK	50@0	6.32	13	PASS
38	10.0	38000	2595.0	16QAM	50@0	6.98	13	PASS
38	10.0	38200	2615.0	QPSK	50@0	6.64	13	PASS
38	10.0	38200	2615.0	16QAM	50@0	7.43	13	PASS
38	5.0	37775	2572.5	QPSK	25@0	6.15	13	PASS
38	5.0	37775	2572.5	16QAM	25@0	6.94	13	PASS
38	5.0	38000	2595.0	QPSK	25@0	5.93	13	PASS
38	5.0	38000	2595.0	16QAM	25@0	6.87	13	PASS
38	5.0	38225	2617.5	QPSK	25@0	5.99	13	PASS
38	5.0	38225	2617.5	16QAM	25@0	6.80	13	PASS

Occupied Bandwidth

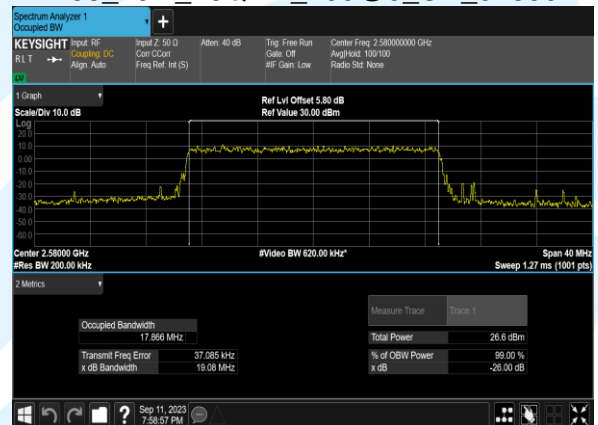
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
38	20.0	37850	2580.0	QPSK	100@0	17.874	19.03
38	20.0	37850	2580.0	16QAM	100@0	17.866	19.08
38	20.0	38000	2595.0	QPSK	100@0	17.916	18.99
38	20.0	38000	2595.0	16QAM	100@0	17.904	19.47
38	20.0	38150	2610.0	QPSK	100@0	17.829	18.94
38	20.0	38150	2610.0	16QAM	100@0	17.853	19.08
38	15.0	37825	2577.5	QPSK	75@0	13.428	14.34
38	15.0	37825	2577.5	16QAM	75@0	13.418	14.34
38	15.0	38000	2595.0	QPSK	75@0	13.387	14.29
38	15.0	38000	2595.0	16QAM	75@0	13.420	14.53
38	15.0	38175	2612.5	QPSK	75@0	13.365	14.19
38	15.0	38175	2612.5	16QAM	75@0	13.395	14.58
38	10.0	37800	2575.0	QPSK	50@0	8.9268	9.619
38	10.0	37800	2575.0	16QAM	50@0	8.9313	9.609
38	10.0	38000	2595.0	QPSK	50@0	8.9383	9.601
38	10.0	38000	2595.0	16QAM	50@0	8.9476	9.575
38	10.0	38200	2615.0	QPSK	50@0	8.9460	9.449
38	10.0	38200	2615.0	16QAM	50@0	8.9246	9.451
38	5.0	37775	2572.5	QPSK	25@0	4.4590	4.982
38	5.0	37775	2572.5	16QAM	25@0	4.4529	4.823
38	5.0	38000	2595.0	QPSK	25@0	4.4640	4.796
38	5.0	38000	2595.0	16QAM	25@0	4.4570	4.841
38	5.0	38225	2617.5	QPSK	25@0	4.4635	4.753
38	5.0	38225	2617.5	16QAM	25@0	4.4415	4.815

Test Graphs

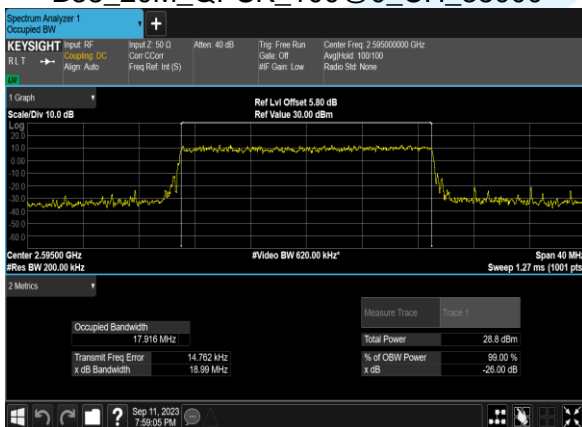
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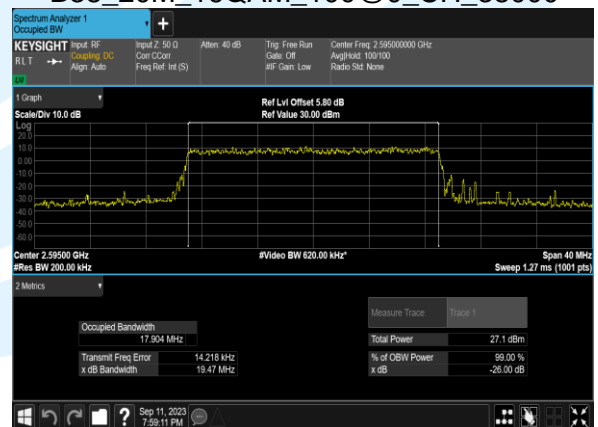
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B38_20M_QPSK_100@0_CH_38000



B38_20M_16QAM_100@0_CH_38000



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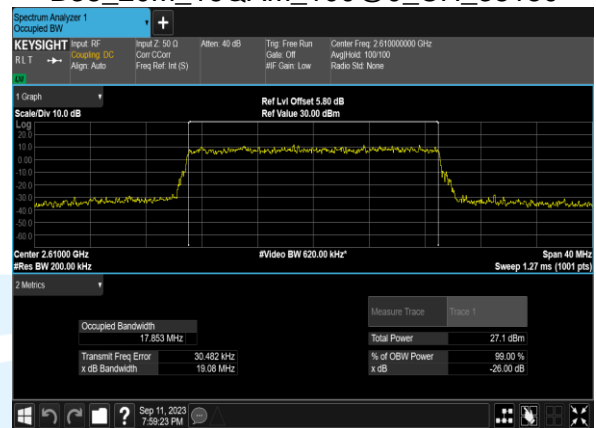
<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

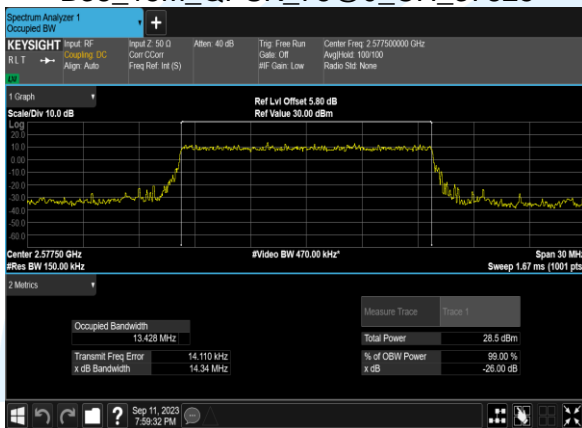
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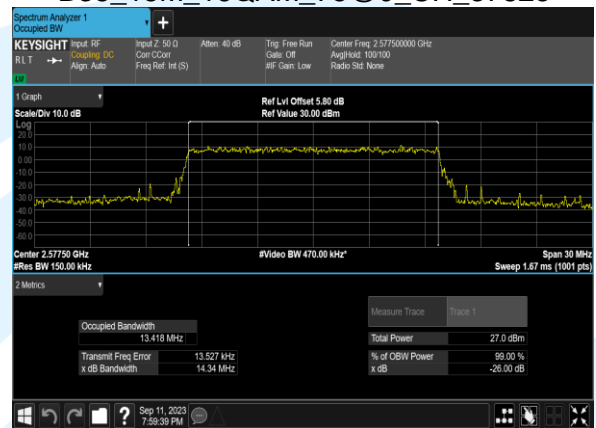
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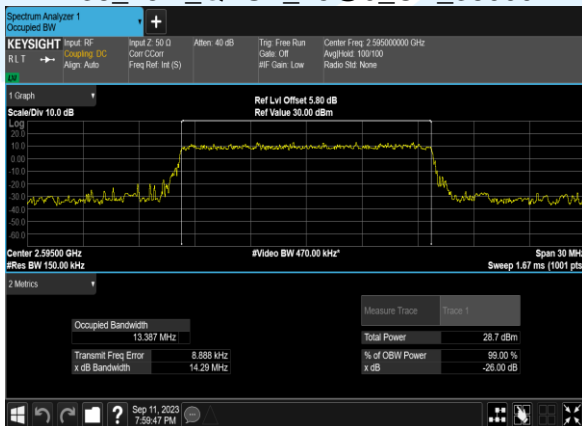
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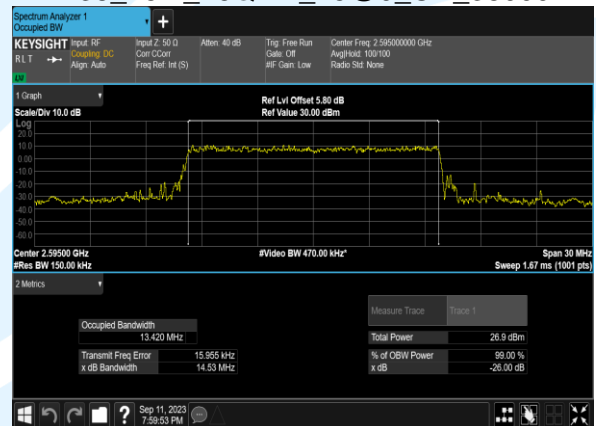
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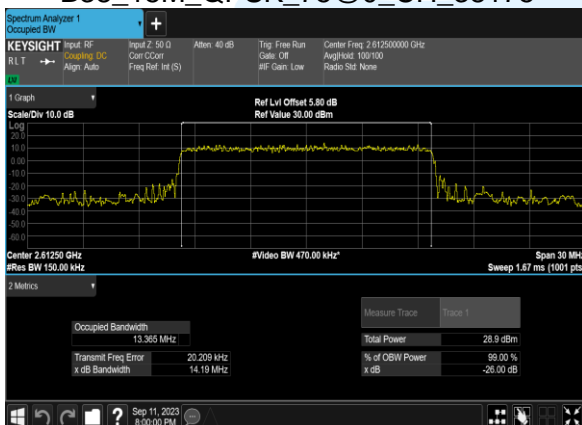
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B38_15M_16QAM_75@0_CH_38000



B38_15M_QPSK_75@0_CH_38175



B38_15M_16QAM_75@0_CH_38175

