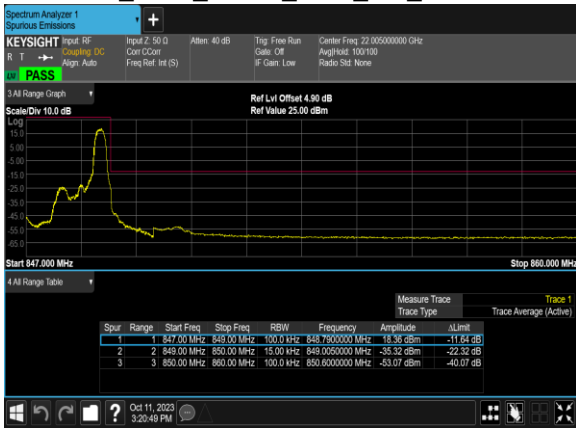


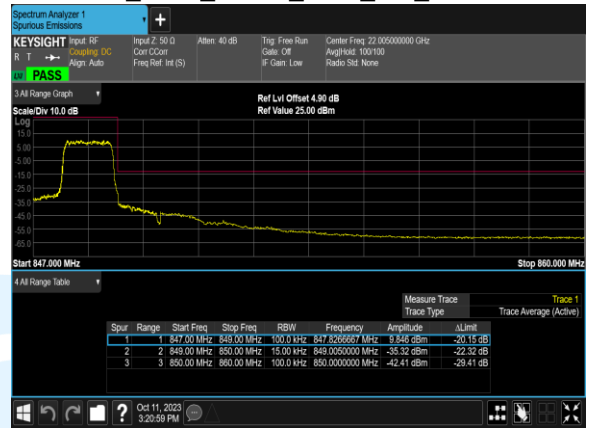
B5_1.4M_QPSK_1@5_CH_20643



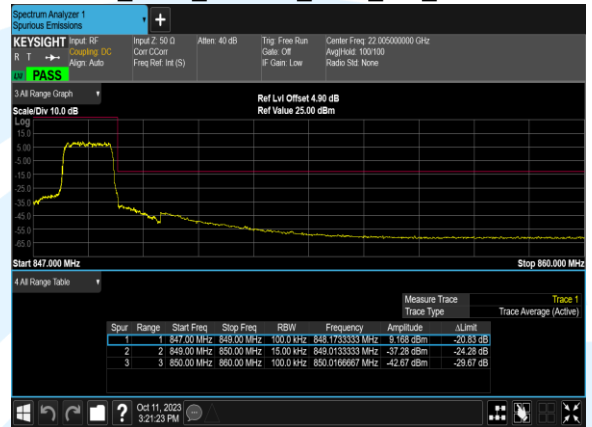
B5_1.4M_16QAM_1@5_CH_20643



B5_1.4M_QPSK_6@0_CH_20643



B5_1.4M_16QAM_6@0_CH_20643



A.4 LTE BAND 7

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	QPSK	100@0	5.46	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.04	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.15	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	5.83	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.28	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	5.94	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.18	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	5.93	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	4.99	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	5.81	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.09	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	5.86	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.13	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	5.79	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.05	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	5.74	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.15	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	5.86	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	4.90	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	5.51	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	4.97	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	5.66	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.09	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	5.71	13	PASS

Test Graphs

B7_20M_QPSK_100@0_CH_20850



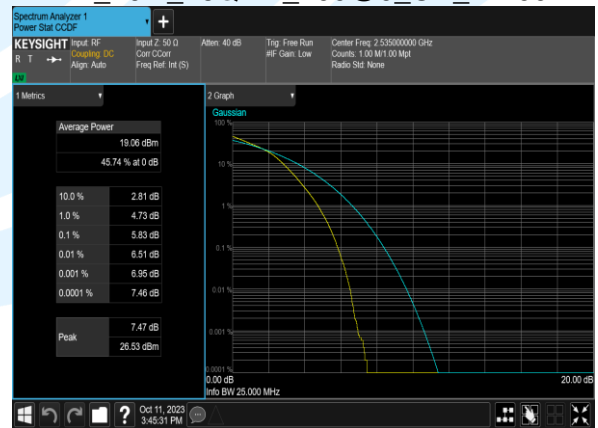
B7_20M_16QAM_100@0_CH_20850



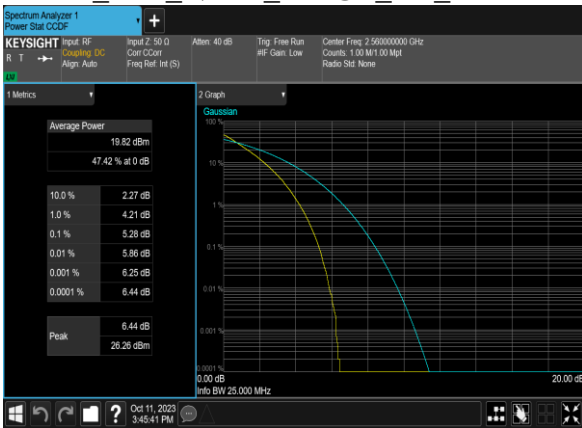
B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



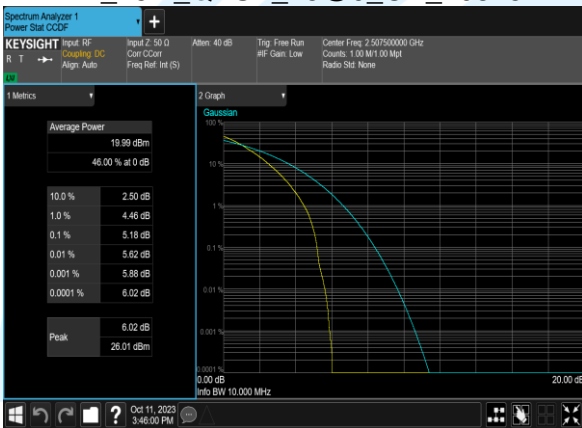
B7_20M_QPSK_100@0_CH_21350



B7_20M_16QAM_100@0_CH_21350



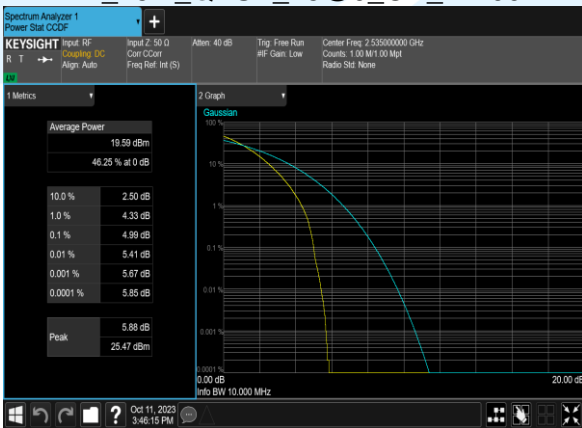
B7_15M_QPSK_75@0_CH_20825



B7_15M_16QAM_75@0_CH_20825



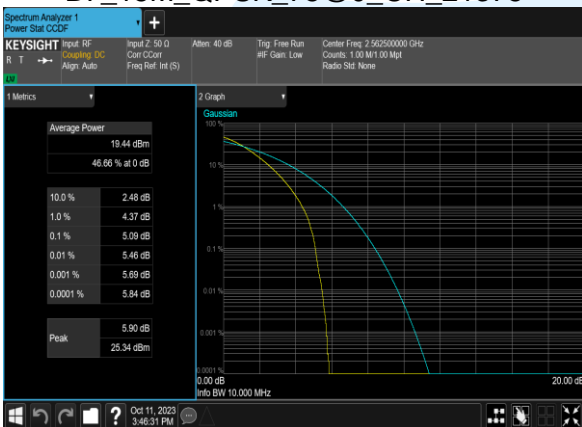
B7_15M_QPSK_75@0_CH_21100



B7_15M_16QAM_75@0_CH_21100



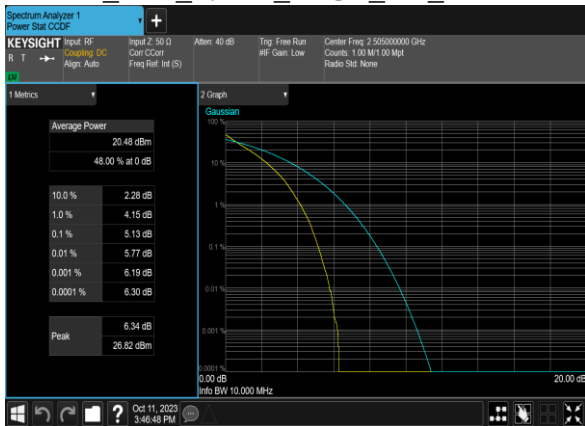
B7_15M_QPSK_75@0_CH_21375



B7_15M_16QAM_75@0_CH_21375



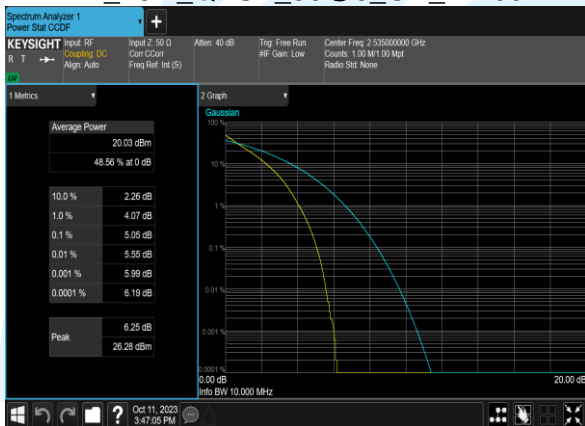
B7_10M_QPSK_50@0_CH_20800



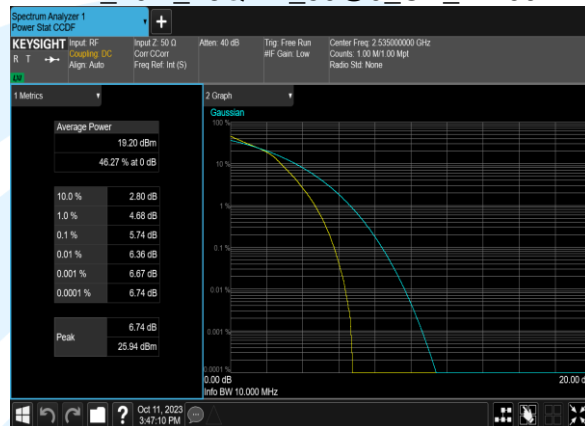
B7_10M_16QAM_50@0_CH_20800



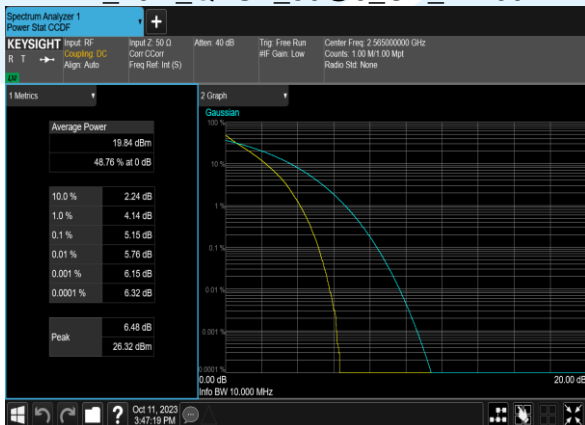
B7_10M_QPSK_50@0_CH_21100



B7_10M_16QAM_50@0_CH_21100



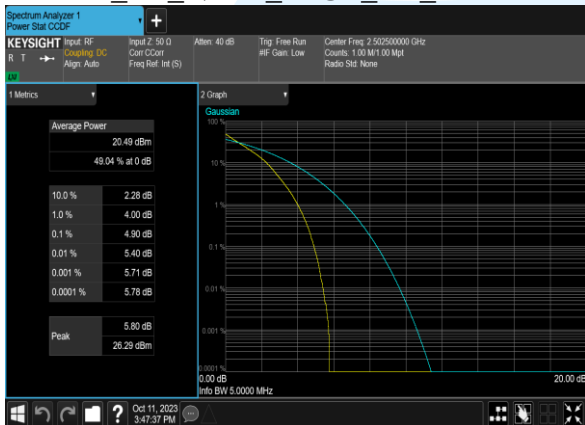
B7_10M_QPSK_50@0_CH_21400



B7_10M_16QAM_50@0_CH_21400



B7_5M_QPSK_25@0_CH_20775



B7_5M_16QAM_25@0_CH_20775



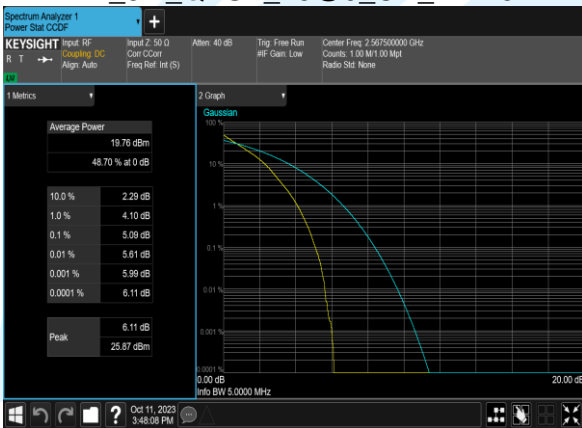
B7_5M_QPSK_25@0_CH_21100



B7_5M_16QAM_25@0_CH_21100



B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_25@0_CH_21425

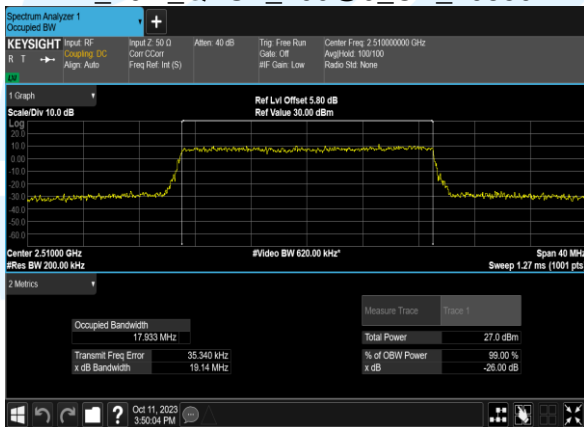


Occupied Bandwidth

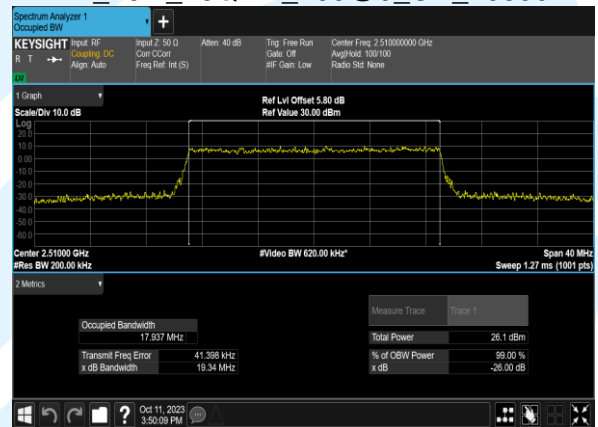
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.933	19.14
7	20.0	20850	2510.0	16QAM	100@0	17.937	19.34
7	20.0	21100	2535.0	QPSK	100@0	17.904	19.03
7	20.0	21100	2535.0	16QAM	100@0	17.881	19.22
7	20.0	21350	2560.0	QPSK	100@0	17.911	19.12
7	20.0	21350	2560.0	16QAM	100@0	17.838	19.12
7	15.0	20825	2507.5	QPSK	75@0	13.441	14.70
7	15.0	20825	2507.5	16QAM	75@0	13.439	14.77
7	15.0	21100	2535.0	QPSK	75@0	13.397	14.39
7	15.0	21100	2535.0	16QAM	75@0	13.405	14.32
7	15.0	21375	2562.5	QPSK	75@0	13.408	14.71
7	15.0	21375	2562.5	16QAM	75@0	13.404	14.39
7	10.0	20800	2505.0	QPSK	50@0	8.9406	9.665
7	10.0	20800	2505.0	16QAM	50@0	8.9122	9.725
7	10.0	21100	2535.0	QPSK	50@0	8.9336	9.660
7	10.0	21100	2535.0	16QAM	50@0	8.9420	9.567
7	10.0	21400	2565.0	QPSK	50@0	8.9343	9.510
7	10.0	21400	2565.0	16QAM	50@0	8.9440	9.638
7	5.0	20775	2502.5	QPSK	25@0	4.4688	4.912
7	5.0	20775	2502.5	16QAM	25@0	4.4558	4.849
7	5.0	21100	2535.0	QPSK	25@0	4.4647	4.878
7	5.0	21100	2535.0	16QAM	25@0	4.4450	4.875
7	5.0	21425	2567.5	QPSK	25@0	4.4544	4.821
7	5.0	21425	2567.5	16QAM	25@0	4.4556	4.865

Test Graphs

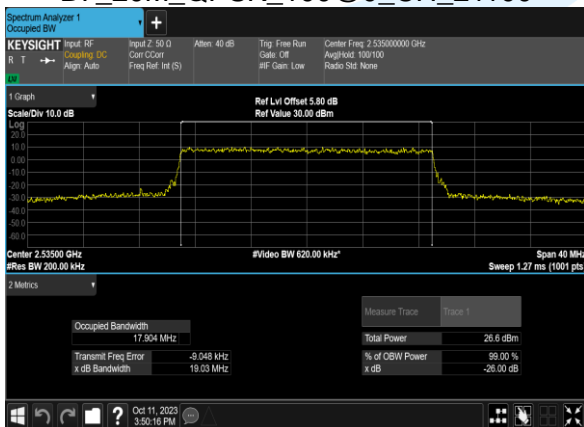
B7_20M_QPSK_100@0_CH_20850



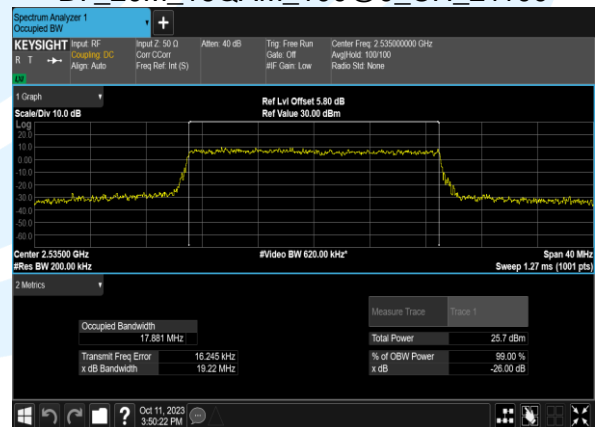
B7_20M_16QAM_100@0_CH_20850



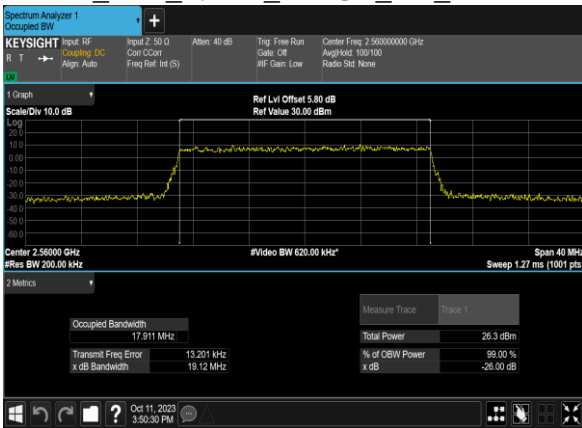
B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



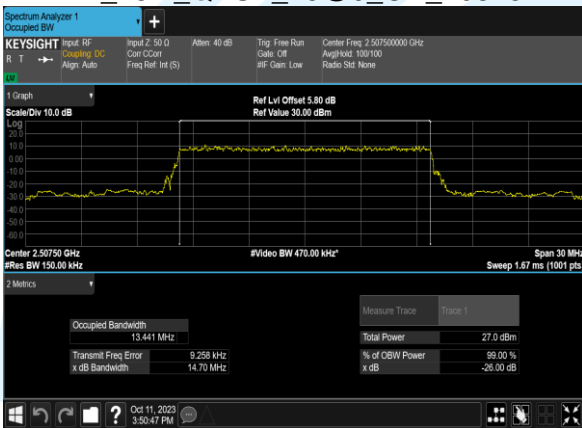
B7_20M_QPSK_100@0_CH_21350



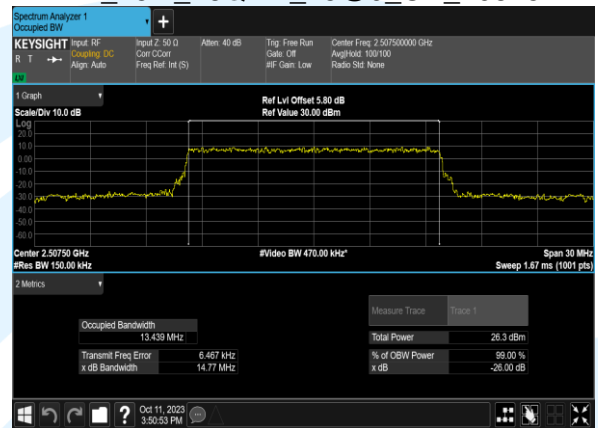
B7_20M_16QAM_100@0_CH_21350



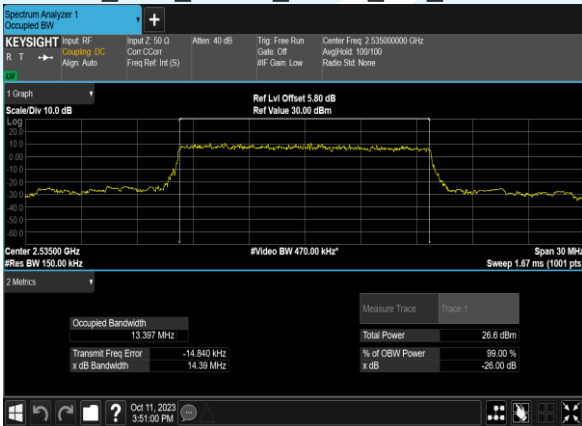
B7_15M_QPSK_75@0_CH_20825



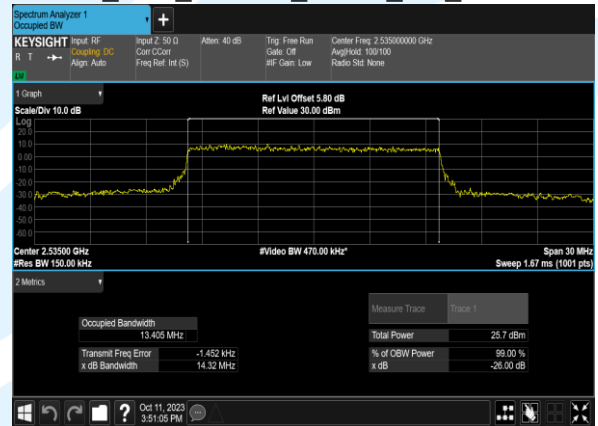
B7_15M_16QAM_75@0_CH_20825



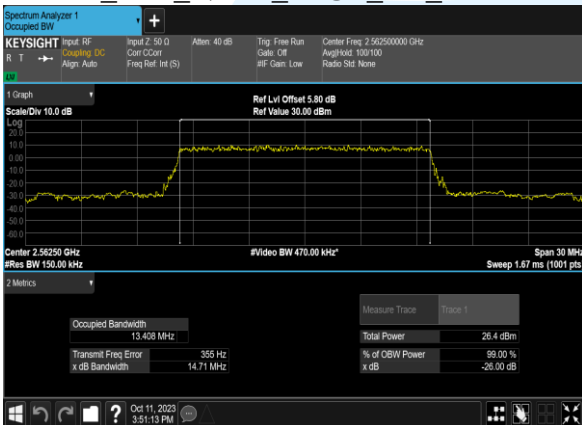
B7_15M_QPSK_75@0_CH_21100



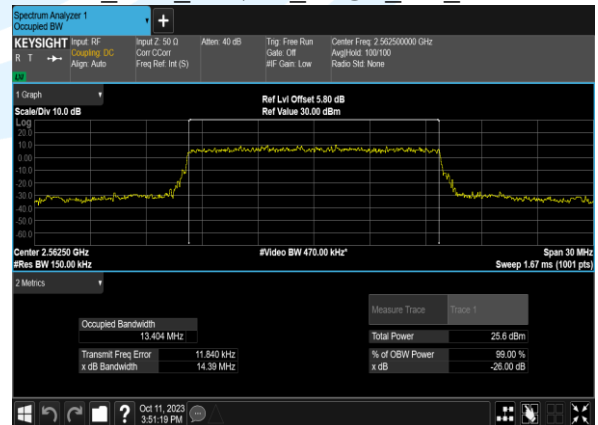
B7_15M_16QAM_75@0_CH_21100



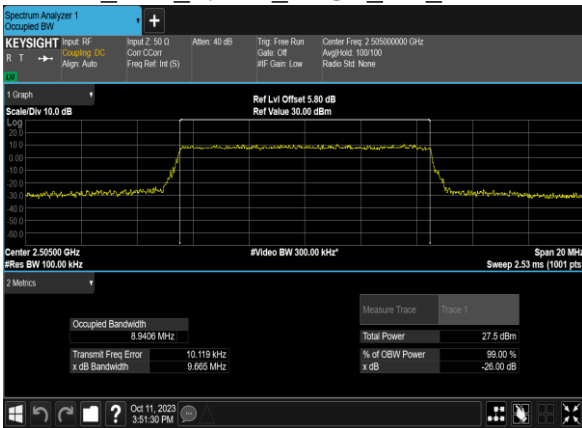
B7_15M_QPSK_75@0_CH_21375



B7_15M_16QAM_75@0_CH_21375



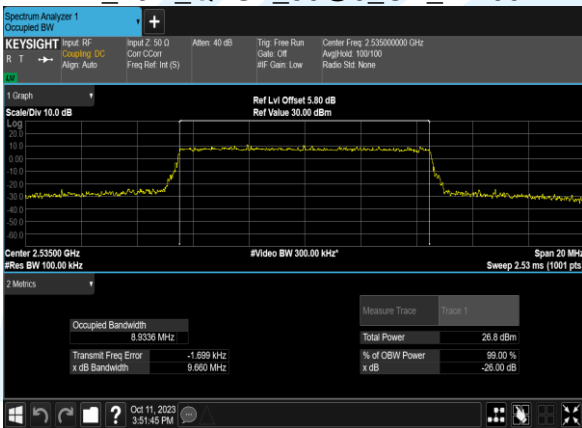
B7_10M_QPSK_50@0_CH_20800



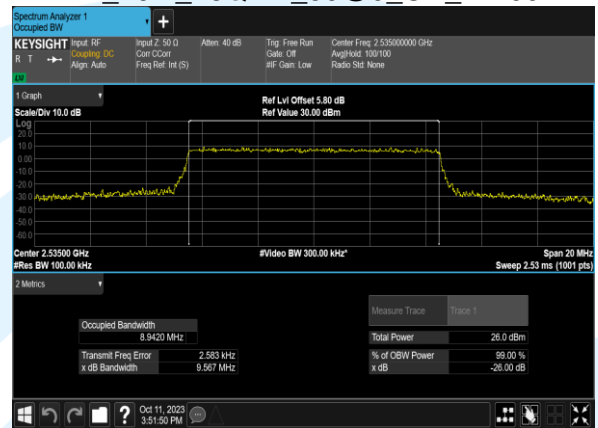
B7_10M_16QAM_50@0_CH_20800



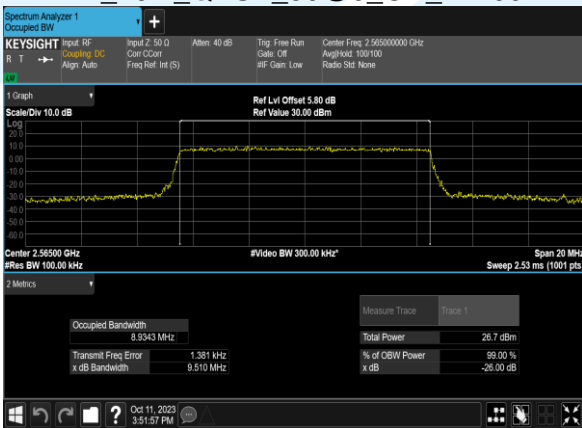
B7_10M_QPSK_50@0_CH_21100



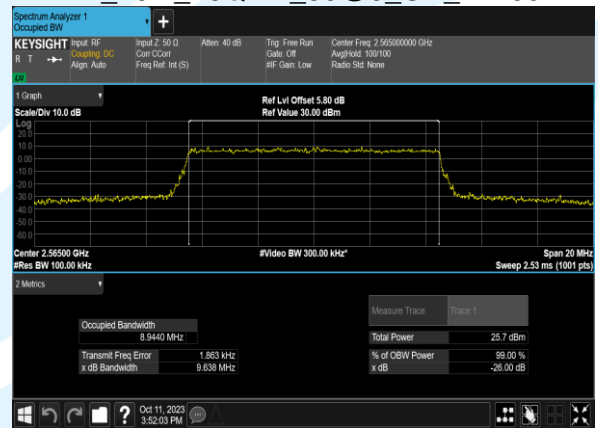
B7_10M_16QAM_50@0_CH_21100



B7_10M_QPSK_50@0_CH_21400



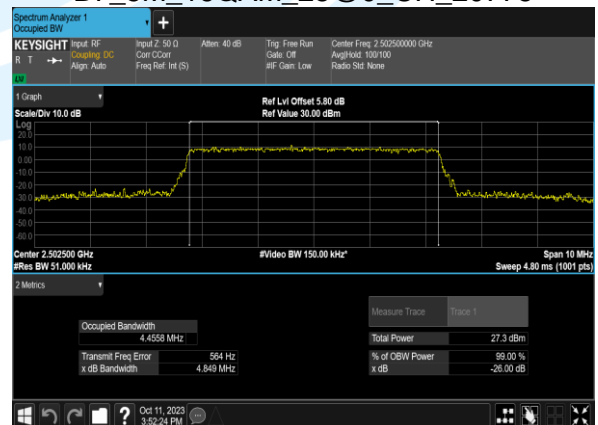
B7_10M_16QAM_50@0_CH_21400



B7_5M_QPSK_25@0_CH_20775



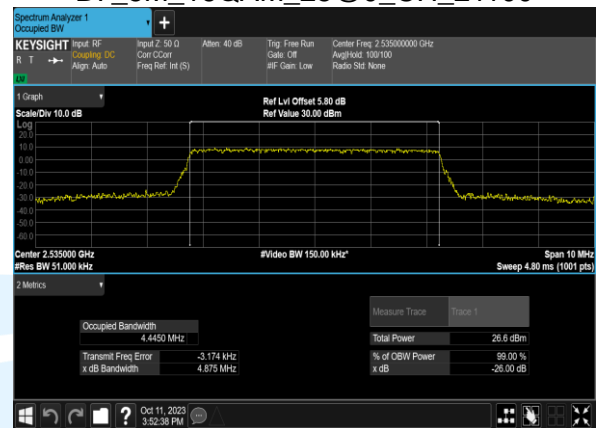
B7_5M_16QAM_25@0_CH_20775



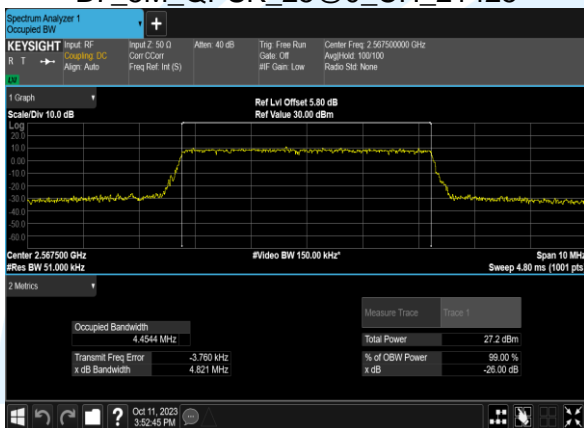
B7_5M_QPSK_25@0_CH_21100



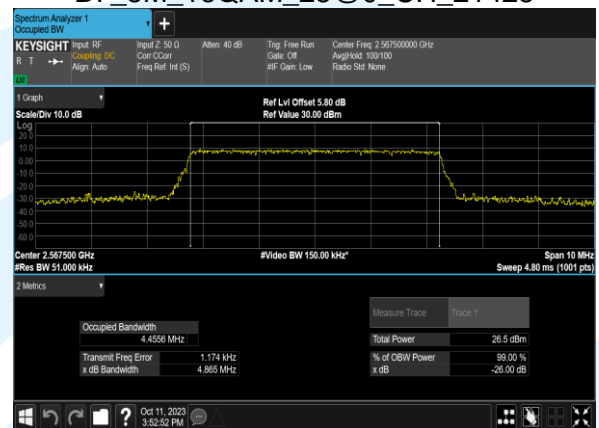
B7_5M_16QAM_25@0_CH_21100



B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_25@0_CH_21425



Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
7	20.0	20850	2510.0	QPSK	1@0	-35.88	-25	PASS
7	20.0	20850	2510.0	16QAM	1@0	-36.0	-25	PASS
7	20.0	21100	2535.0	QPSK	1@0	-35.46	-25	PASS
7	20.0	21100	2535.0	16QAM	1@0	-35.98	-25	PASS
7	20.0	21350	2560.0	QPSK	1@0	-35.2	-25	PASS
7	20.0	21350	2560.0	16QAM	1@0	-35.79	-25	PASS
7	15.0	20825	2507.5	QPSK	1@0	-36.02	-25	PASS
7	15.0	20825	2507.5	16QAM	1@0	-36.02	-25	PASS
7	15.0	21100	2535.0	QPSK	1@0	-35.7	-25	PASS
7	15.0	21100	2535.0	16QAM	1@0	-35.49	-25	PASS
7	15.0	21375	2562.5	QPSK	1@0	-35.36	-25	PASS
7	15.0	21375	2562.5	16QAM	1@0	-34.78	-25	PASS
7	10.0	20800	2505.0	QPSK	1@0	-35.71	-25	PASS
7	10.0	20800	2505.0	16QAM	1@0	-35.86	-25	PASS
7	10.0	21100	2535.0	QPSK	1@0	-35.45	-25	PASS
7	10.0	21100	2535.0	16QAM	1@0	-34.99	-25	PASS
7	10.0	21400	2565.0	QPSK	1@0	-35.55	-25	PASS
7	10.0	21400	2565.0	16QAM	1@0	-35.56	-25	PASS
7	5.0	20775	2502.5	QPSK	1@0	-36.51	-25	PASS
7	5.0	20775	2502.5	16QAM	1@0	-35.46	-25	PASS
7	5.0	21100	2535.0	QPSK	1@0	-35.82	-25	PASS
7	5.0	21100	2535.0	16QAM	1@0	-35.71	-25	PASS
7	5.0	21425	2567.5	QPSK	1@0	-35.51	-25	PASS
7	5.0	21425	2567.5	16QAM	1@0	-35.96	-25	PASS

Test Graphs

B7_20M_QPSK_1@0_CH_20850



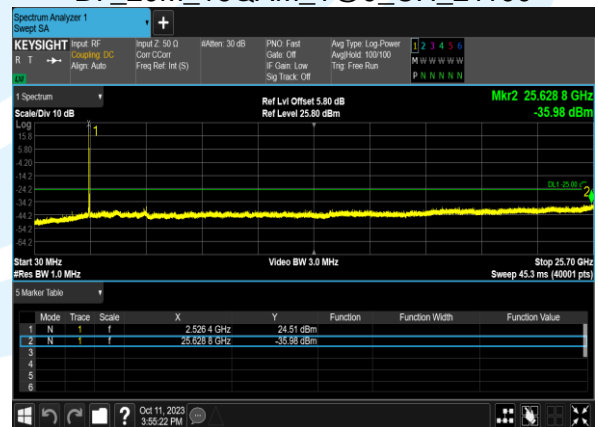
B7_20M_16QAM_1@0_CH_20850



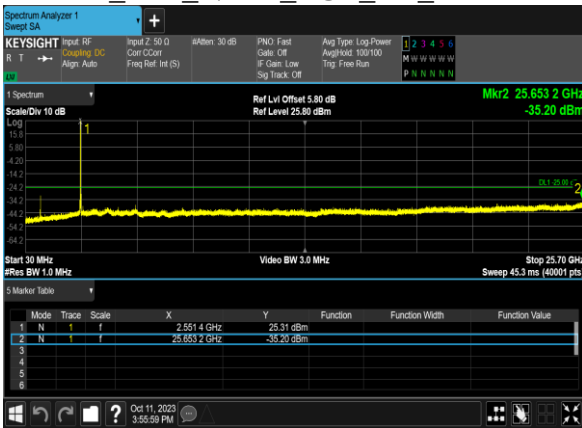
B7_20M_QPSK_1@0_CH_21100



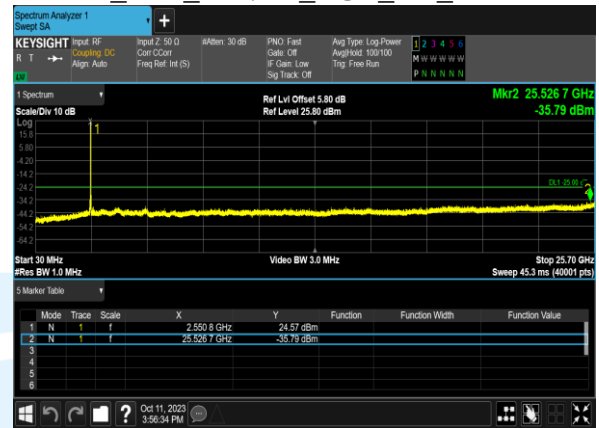
B7_20M_16QAM_1@0_CH_21100



B7_20M_QPSK_1@0_CH_21350



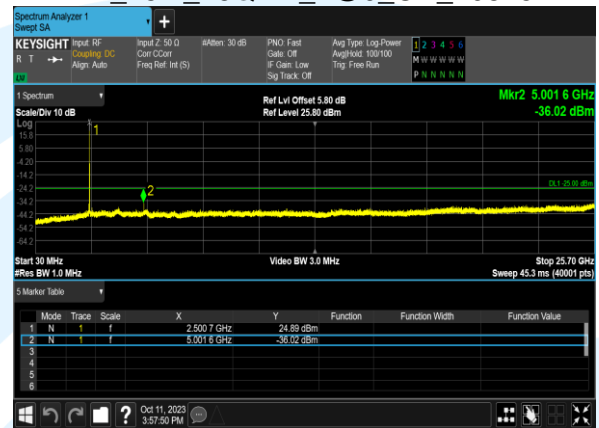
B7_20M_16QAM_1@0_CH_21350



B7_15M_QPSK_1@0_CH_20825



B7_15M_16QAM_1@0_CH_20825



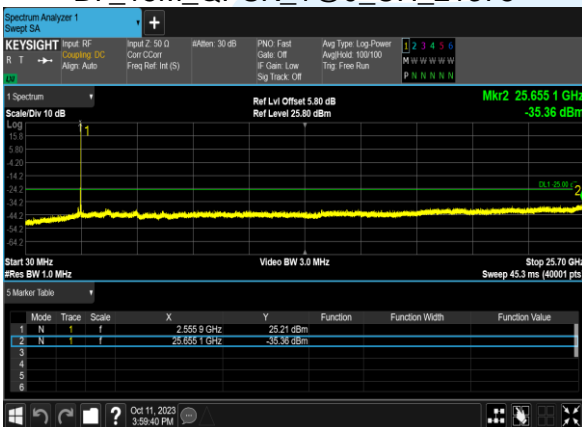
B7_15M_QPSK_1@0_CH_21100



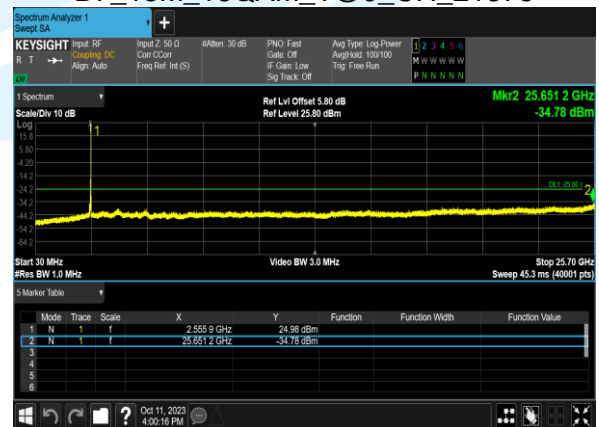
B7_15M_16QAM_1@0_CH_21100



B7_15M_QPSK_1@0_CH_21375



B7_15M_16QAM_1@0_CH_21375



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

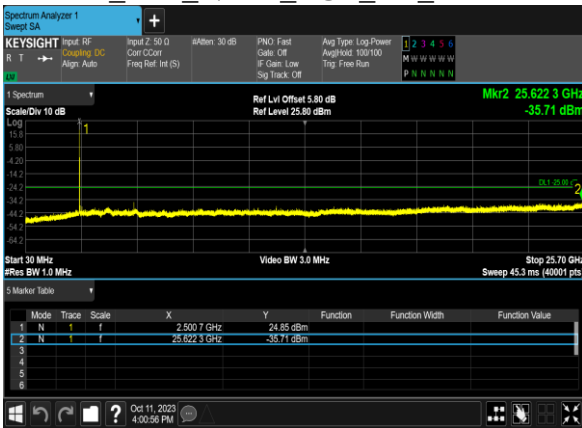
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

B7_10M_QPSK_1@0_CH_20800



B7_10M_16QAM_1@0_CH_20800



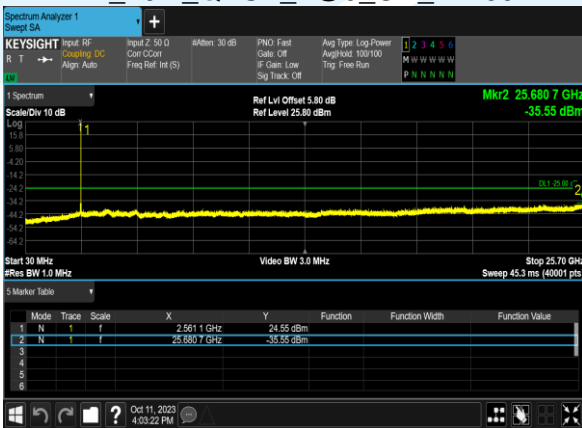
B7_10M_QPSK_1@0_CH_21100



B7_10M_16QAM_1@0_CH_21100



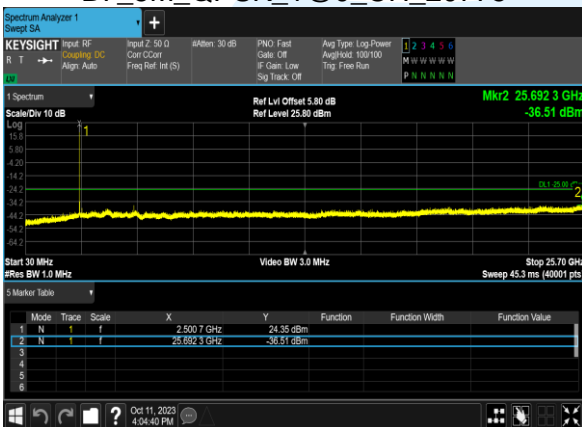
B7_10M_QPSK_1@0_CH_21400



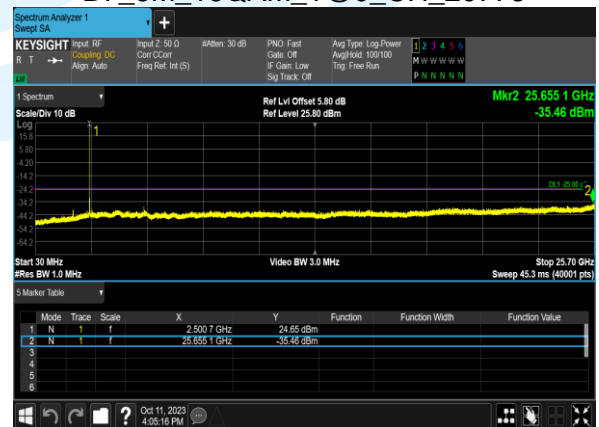
B7_10M_16QAM_1@0_CH_21400



B7_5M_QPSK_1@0_CH_20775



B7_5M_16QAM_1@0_CH_20775



B7_5M_QPSK_1@0_CH_21100



B7_5M_16QAM_1@0_CH_21100



B7_5M_QPSK_1@0_CH_21425



B7_5M_16QAM_1@0_CH_21425

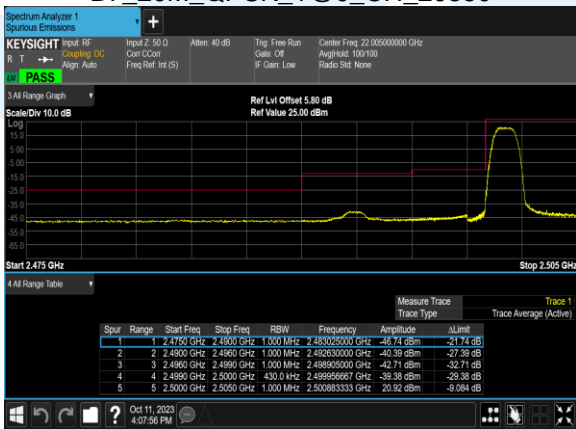


Conducted Band Edge

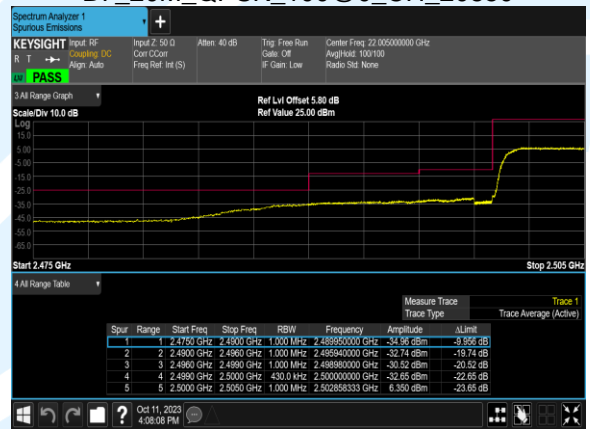
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
7	20.0	20850	2510.0	QPSK	1@0	see graph	PASS
7	20.0	20850	2510.0	QPSK	100@0	see graph	PASS
7	20.0	20850	2510.0	16QAM	1@0	see graph	PASS
7	20.0	20850	2510.0	16QAM	100@0	see graph	PASS
7	20.0	21350	2560.0	QPSK	1@99	see graph	PASS
7	20.0	21350	2560.0	QPSK	100@0	see graph	PASS
7	20.0	21350	2560.0	16QAM	1@99	see graph	PASS
7	20.0	21350	2560.0	16QAM	100@0	see graph	PASS
7	15.0	20825	2507.5	QPSK	1@0	see graph	PASS
7	15.0	20825	2507.5	QPSK	75@0	see graph	PASS
7	15.0	20825	2507.5	16QAM	1@0	see graph	PASS
7	15.0	20825	2507.5	16QAM	75@0	see graph	PASS
7	15.0	21375	2562.5	QPSK	1@74	see graph	PASS
7	15.0	21375	2562.5	QPSK	75@0	see graph	PASS
7	15.0	21375	2562.5	16QAM	1@74	see graph	PASS
7	15.0	21375	2562.5	16QAM	75@0	see graph	PASS
7	10.0	20800	2505.0	QPSK	1@0	see graph	PASS
7	10.0	20800	2505.0	16QAM	1@0	see graph	PASS
7	10.0	20800	2505.0	16QAM	50@0	see graph	PASS
7	10.0	21400	2565.0	QPSK	1@49	see graph	PASS
7	10.0	21400	2565.0	QPSK	50@0	see graph	PASS
7	10.0	21400	2565.0	16QAM	1@49	see graph	PASS
7	10.0	21400	2565.0	16QAM	50@0	see graph	PASS
7	5.0	20775	2502.5	QPSK	1@0	see graph	PASS
7	5.0	20775	2502.5	QPSK	25@0	see graph	PASS
7	5.0	20775	2502.5	16QAM	1@0	see graph	PASS
7	5.0	20775	2502.5	16QAM	25@0	see graph	PASS
7	5.0	21425	2567.5	QPSK	1@24	see graph	PASS
7	5.0	21425	2567.5	QPSK	25@0	see graph	PASS
7	5.0	21425	2567.5	16QAM	1@24	see graph	PASS
7	5.0	21425	2567.5	16QAM	25@0	see graph	PASS

Test Graphs

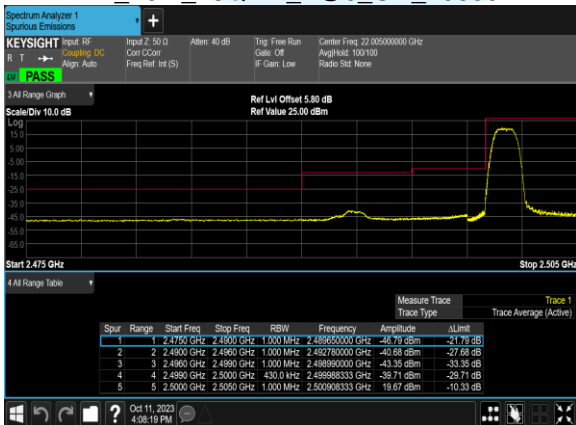
B7_20M_QPSK_1@0_CH_20850



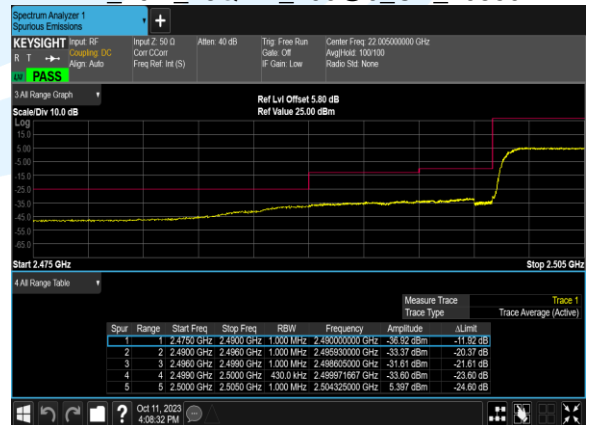
B7_20M_QPSK_100@0_CH_20850



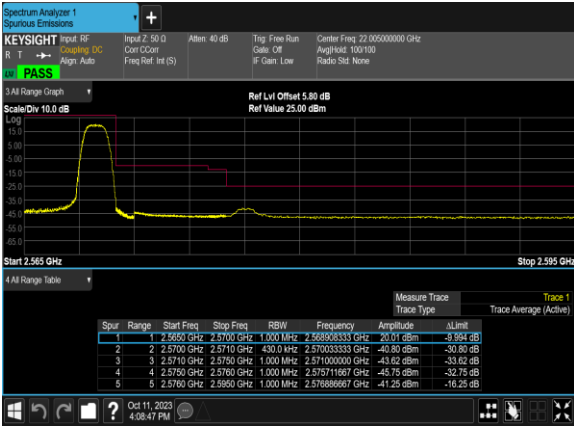
B7_20M_16QAM_1@0_CH_20850



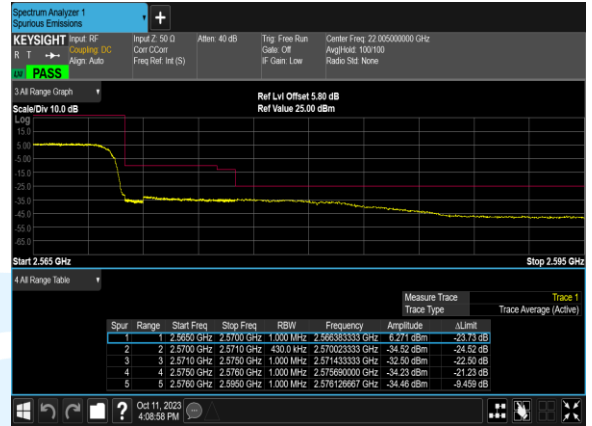
B7_20M_16QAM_100@0_CH_20850



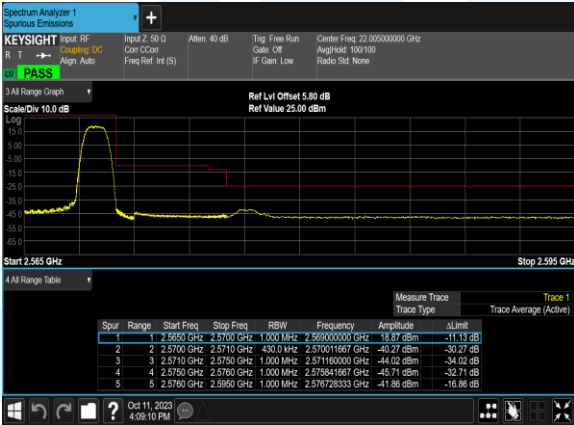
B7_20M_QPSK_1@99_CH_21350



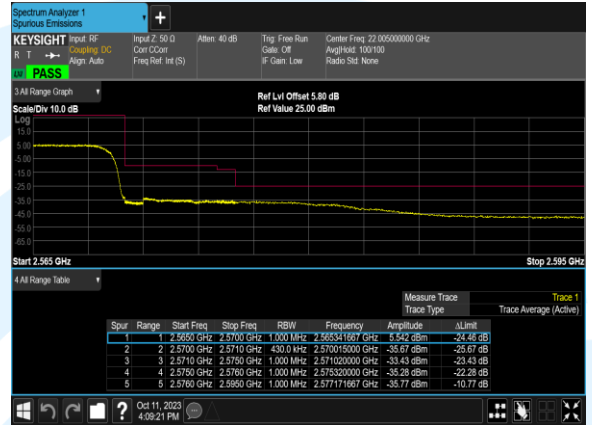
B7_20M_QPSK_100@0_CH_21350



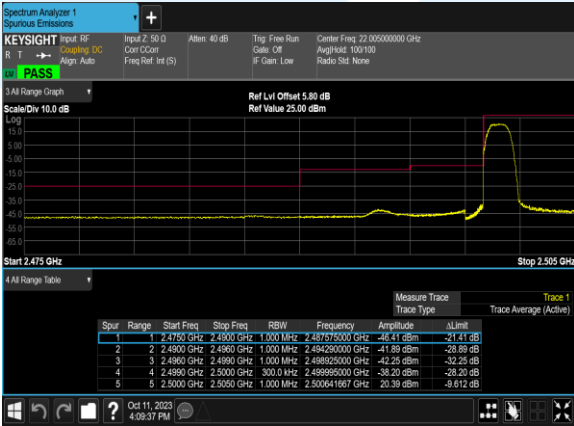
B7_20M_16QAM_1@99_CH_21350



B7_20M_16QAM_100@0_CH_21350



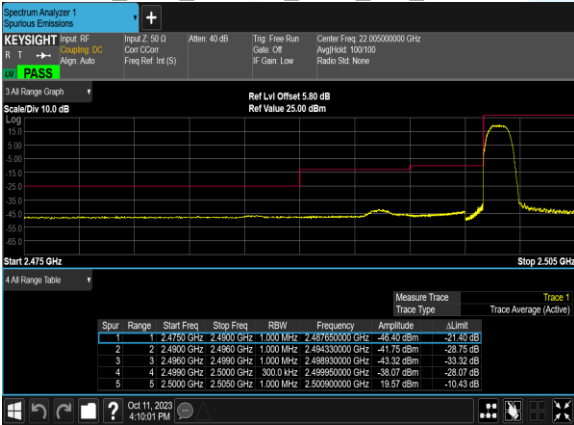
B7_15M_QPSK_1@0_CH_20825



B7_15M_QPSK_75@0_CH_20825



B7_15M_16QAM_1@0_CH_20825



B7_15M_16QAM_75@0_CH_20825

