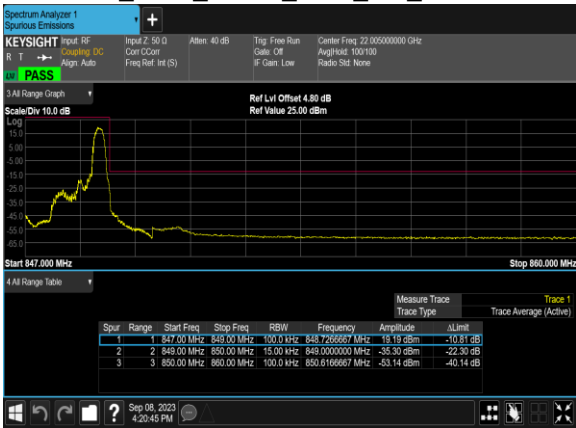
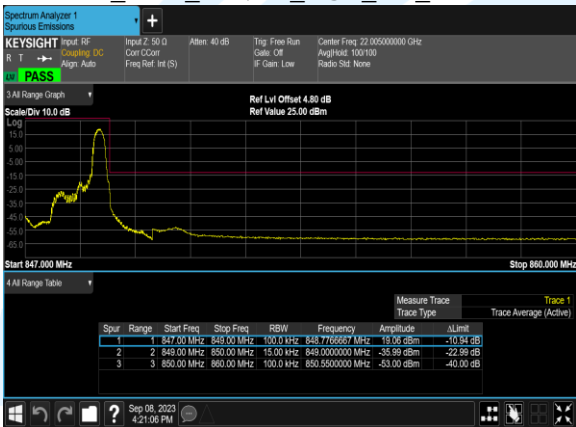


B5_1.4M_QPSK_1@5_CH_20643



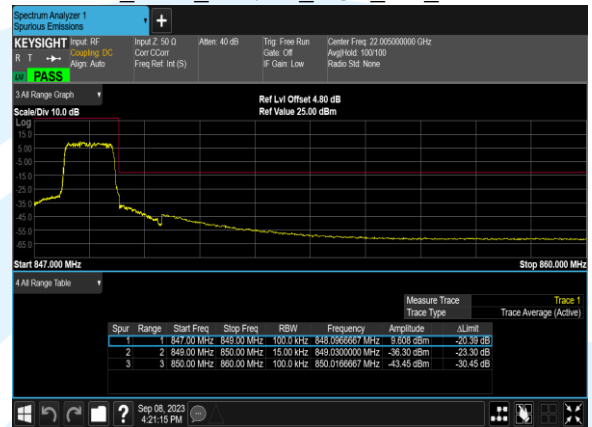
B5_1.4M_16QAM_1@5_CH_20643



B5_1.4M_QPSK_6@0_CH_20643



B5_1.4M_16QAM_6@0_CH_20643



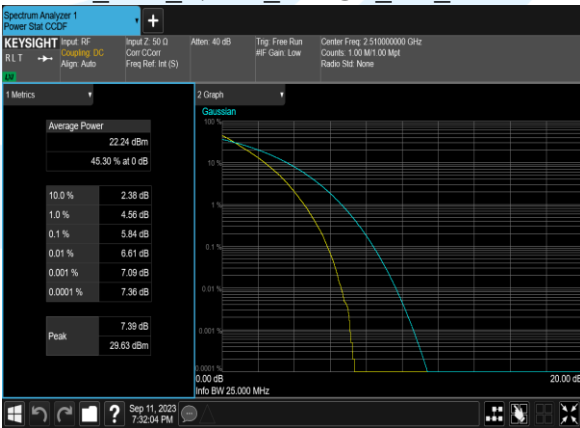
A.4 LTE BAND 7

Peak to Average Ratio

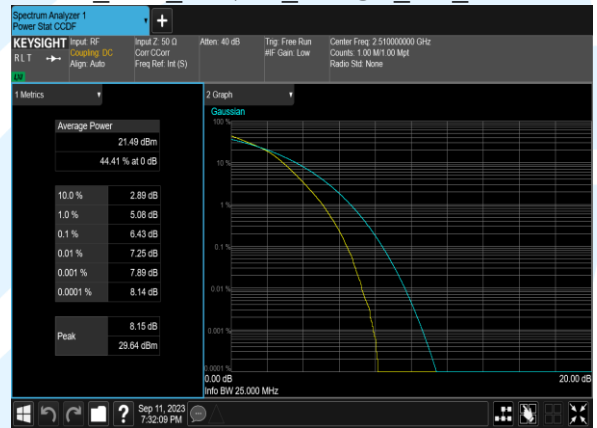
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	QPSK	100@0	5.84	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.42	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.58	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.25	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.57	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	6.26	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.51	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	6.22	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.36	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.12	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.33	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	6.06	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.57	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	6.29	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.52	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.21	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.49	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.25	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.44	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	6.08	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.52	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	6.19	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.48	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	6.17	13	PASS

Test Graphs

B7_20M_QPSK_100@0_CH_20850



B7_20M_16QAM_100@0_CH_20850



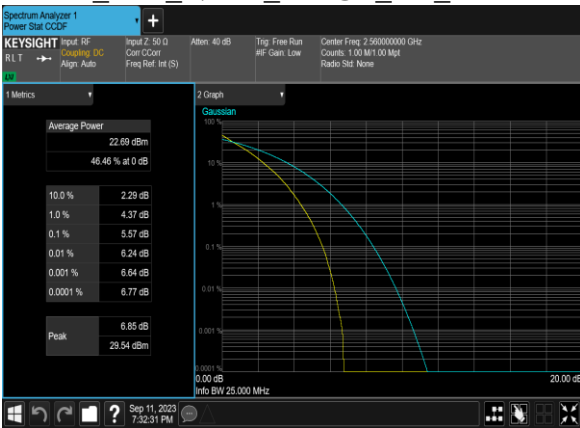
B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



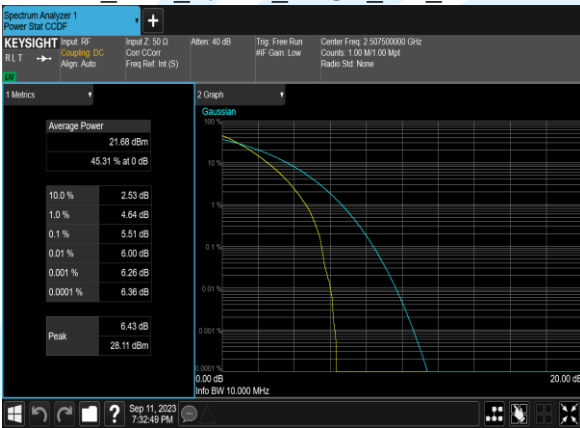
B7_20M_QPSK_100@0_CH_21350



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



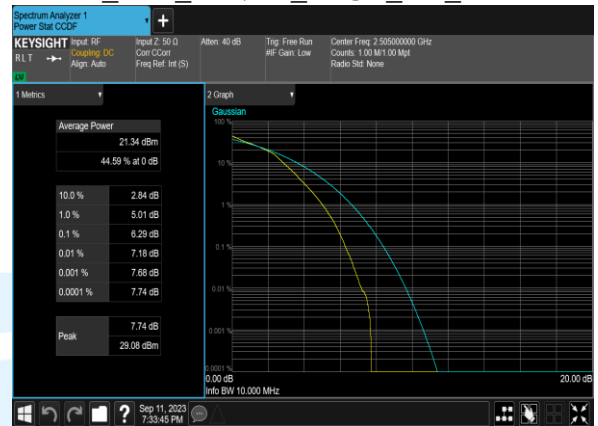
B7_15M_16QAM_75@0_CH_21375



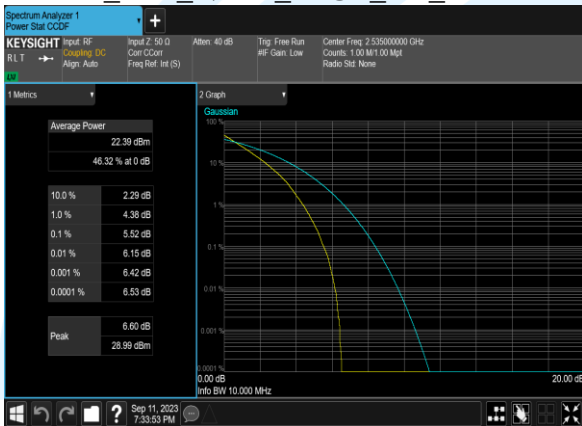
B7_10M_QPSK_50@0_CH_20800



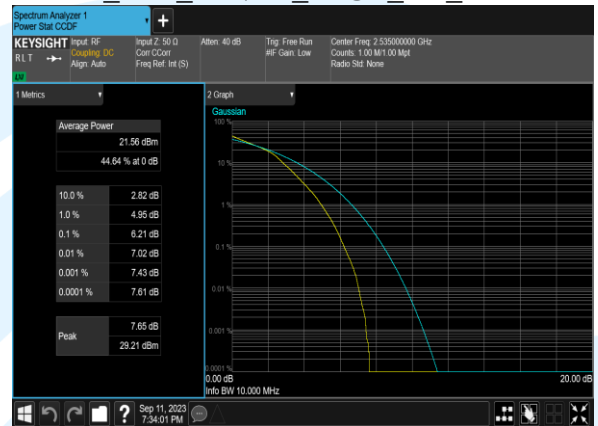
B7_10M_16QAM_50@0_CH_20800



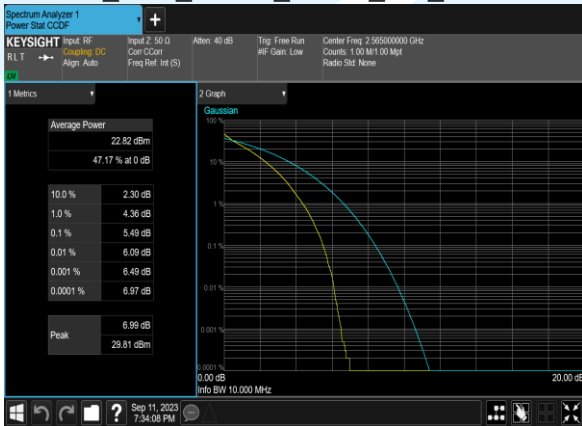
B7_10M_QPSK_50@0_CH_21100



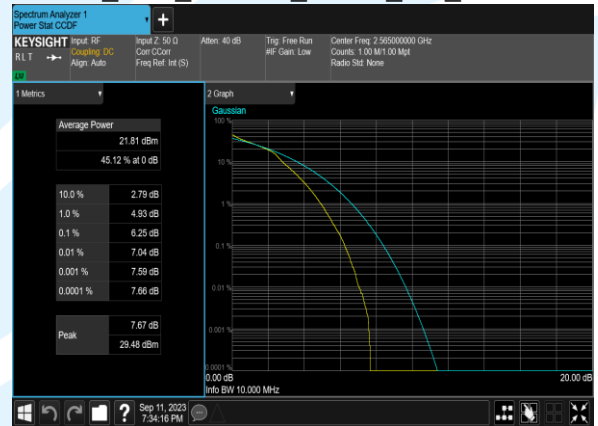
B7_10M_16QAM_50@0_CH_21100



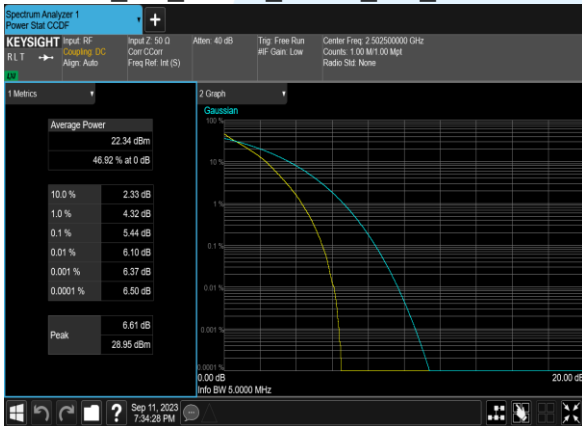
B7_10M_QPSK_50@0_CH_21400



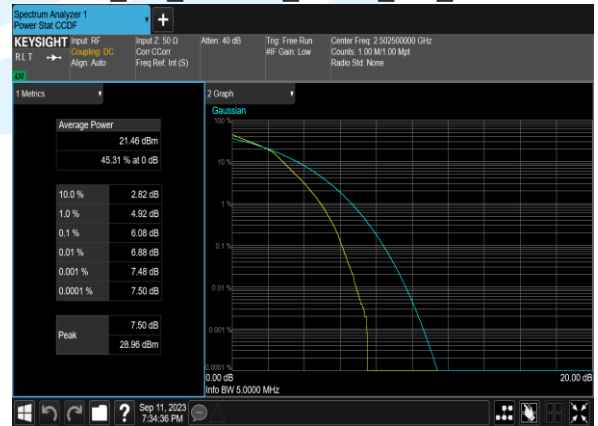
B7_10M_16QAM_50@0_CH_21400



B7_5M_QPSK_25@0_CH_20775



B7_5M_16QAM_25@0_CH_20775



B7_5M_QPSK_25@0_CH_21100



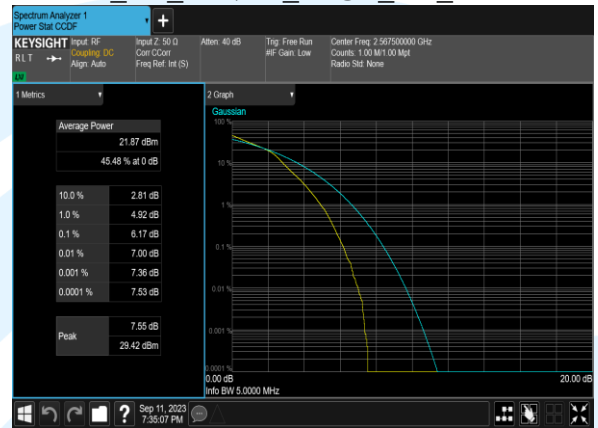
B7_5M_16QAM_25@0_CH_21100



B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_25@0_CH_21425

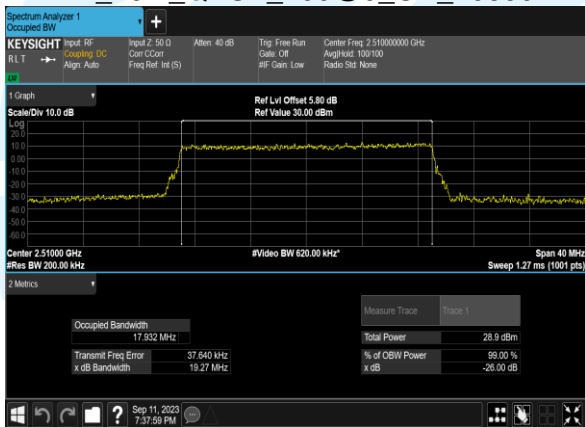


Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.932	19.27
7	20.0	20850	2510.0	16QAM	100@0	17.900	19.06
7	20.0	21100	2535.0	QPSK	100@0	17.863	19.05
7	20.0	21100	2535.0	16QAM	100@0	17.877	19.28
7	20.0	21350	2560.0	QPSK	100@0	17.860	19.13
7	20.0	21350	2560.0	16QAM	100@0	17.847	19.21
7	15.0	20825	2507.5	QPSK	75@0	13.438	14.55
7	15.0	20825	2507.5	16QAM	75@0	13.461	14.51
7	15.0	21100	2535.0	QPSK	75@0	13.394	14.50
7	15.0	21100	2535.0	16QAM	75@0	13.408	14.62
7	15.0	21375	2562.5	QPSK	75@0	13.399	14.52
7	15.0	21375	2562.5	16QAM	75@0	13.390	14.43
7	10.0	20800	2505.0	QPSK	50@0	8.9456	9.714
7	10.0	20800	2505.0	16QAM	50@0	8.9332	9.580
7	10.0	21100	2535.0	QPSK	50@0	8.9338	9.615
7	10.0	21100	2535.0	16QAM	50@0	8.9405	9.710
7	10.0	21400	2565.0	QPSK	50@0	8.9314	9.674
7	10.0	21400	2565.0	16QAM	50@0	8.9334	9.698
7	5.0	20775	2502.5	QPSK	25@0	4.4595	4.860
7	5.0	20775	2502.5	16QAM	25@0	4.4581	4.881
7	5.0	21100	2535.0	QPSK	25@0	4.4645	4.876
7	5.0	21100	2535.0	16QAM	25@0	4.4503	4.903
7	5.0	21425	2567.5	QPSK	25@0	4.4503	4.868
7	5.0	21425	2567.5	16QAM	25@0	4.4534	4.840

Test Graphs

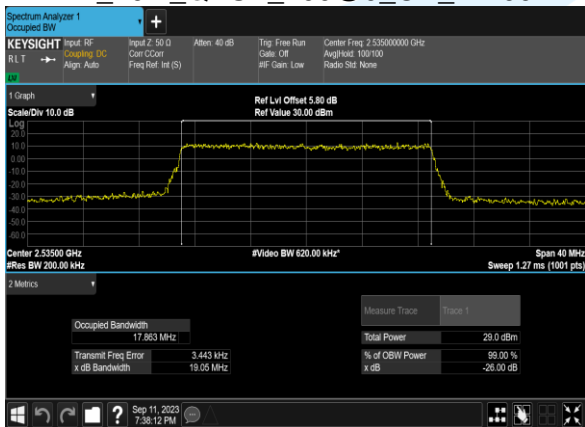
B7_20M_QPSK_100@0_CH_20850



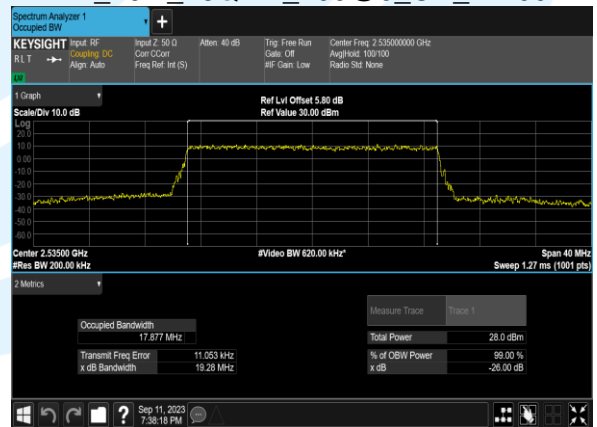
B7_20M_16QAM_100@0_CH_20850



B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



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Tel: +86-755-28230888

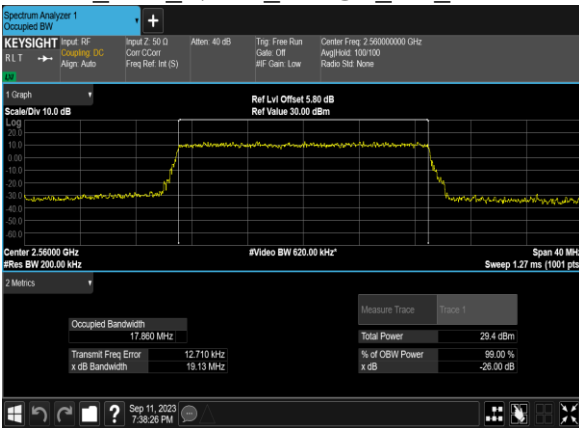
Fax: +86-755-28230886

E-mail: info@uttlab.com

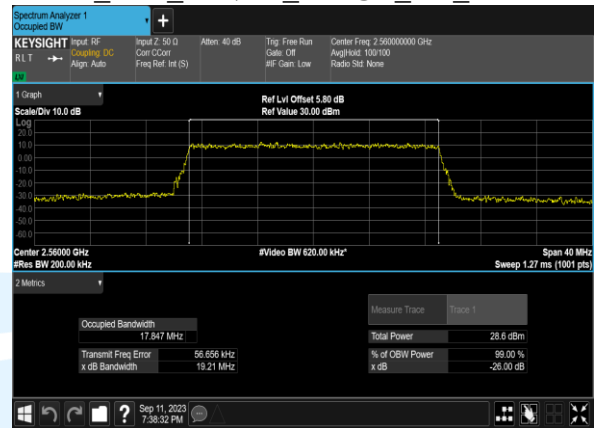
<http://www.uttlab.com>

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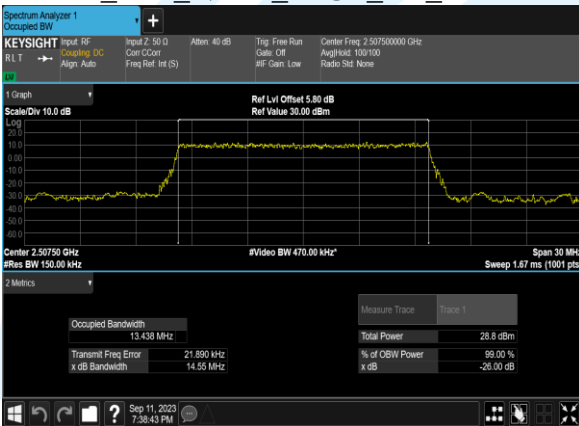
B7_20M_QPSK_100@0_CH_21350



B7_20M_16QAM_100@0_CH_21350



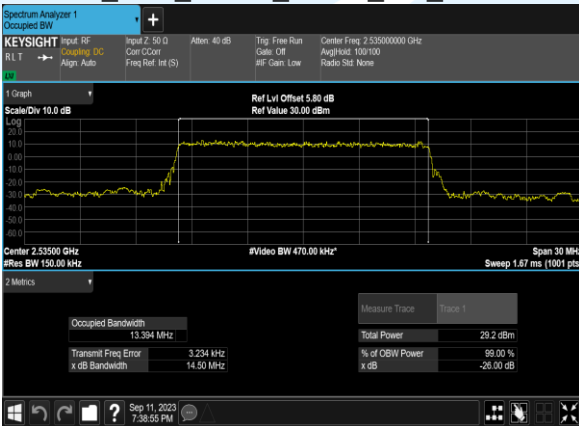
B7_15M_QPSK_75@0_CH_20825



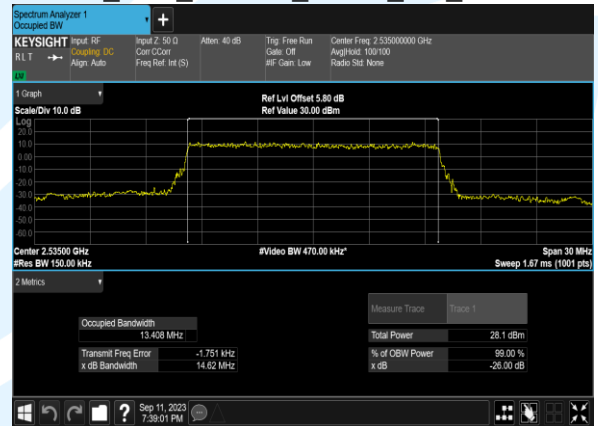
B7_15M_16QAM_75@0_CH_20825



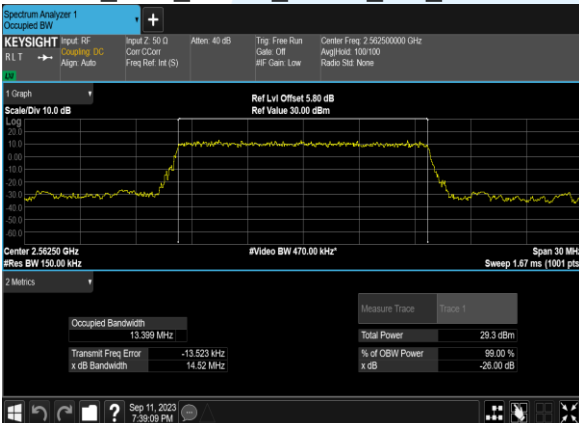
B7_15M_QPSK_75@0_CH_21100



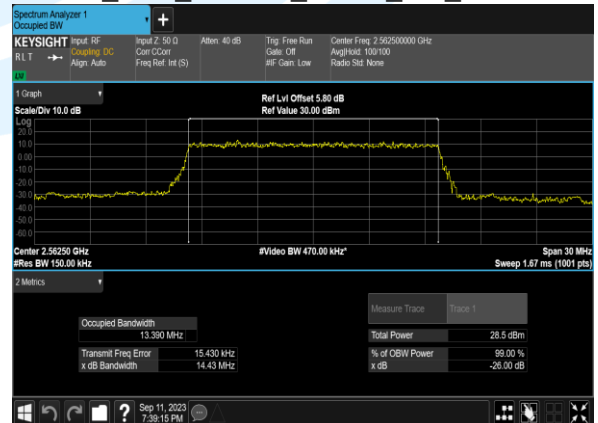
B7_15M_16QAM_75@0_CH_21100



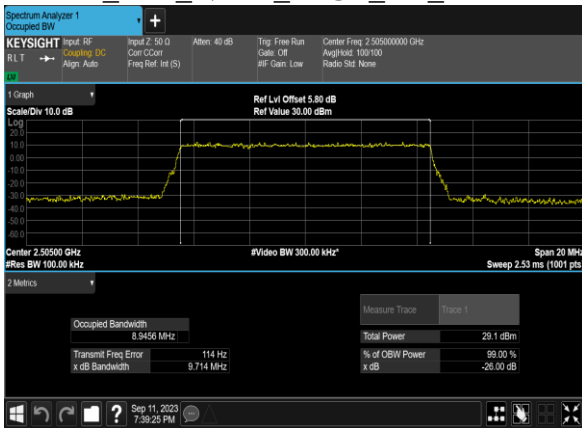
B7_15M_QPSK_75@0_CH_21375



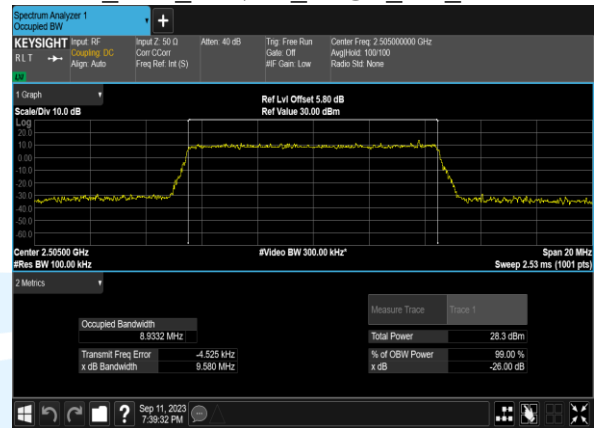
B7_15M_16QAM_75@0_CH_21375



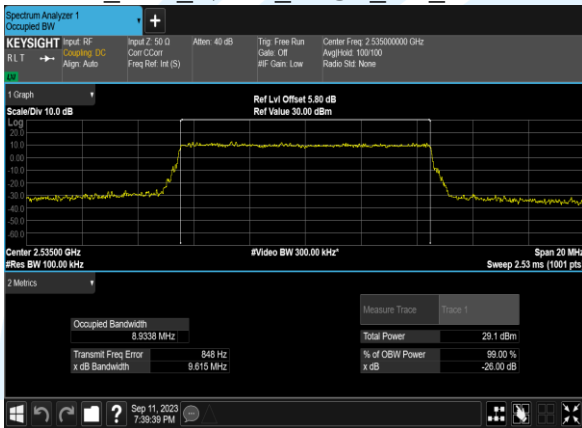
B7_10M_QPSK_50@0_CH_20800



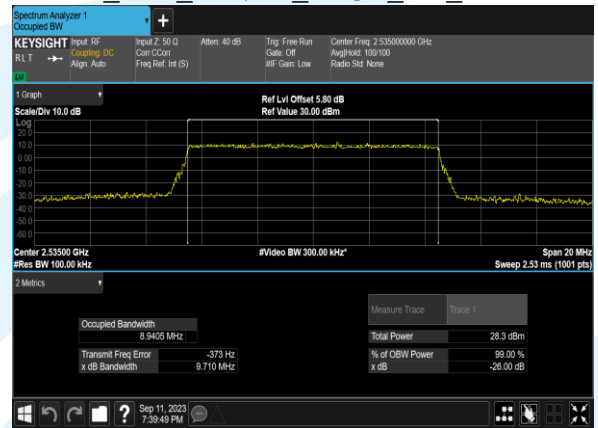
B7_10M_16QAM_50@0_CH_20800



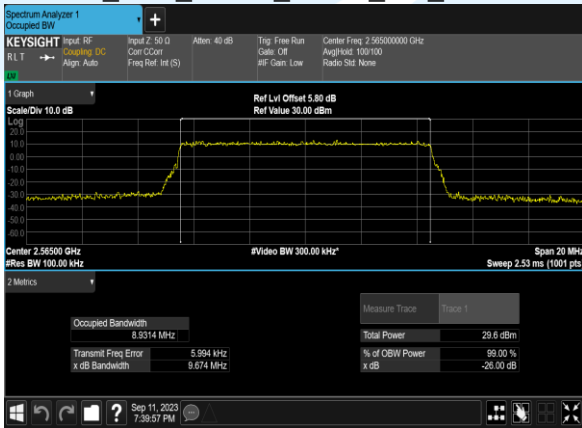
B7_10M_QPSK_50@0_CH_21100



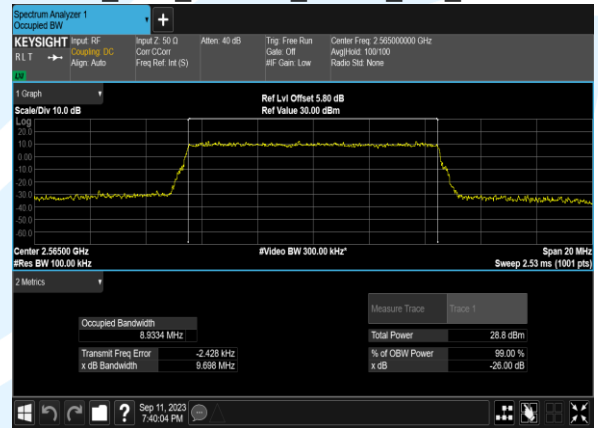
B7_10M_16QAM_50@0_CH_21100



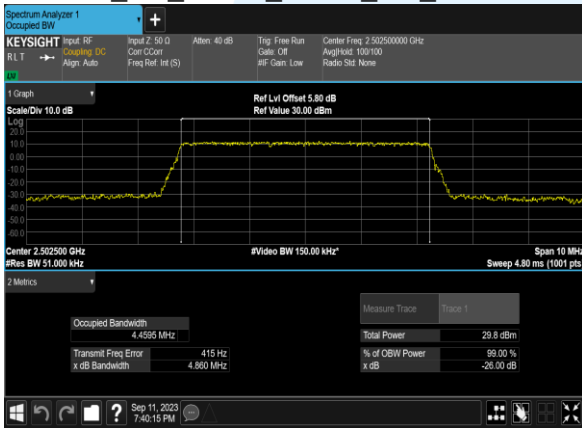
B7_10M_QPSK_50@0_CH_21400



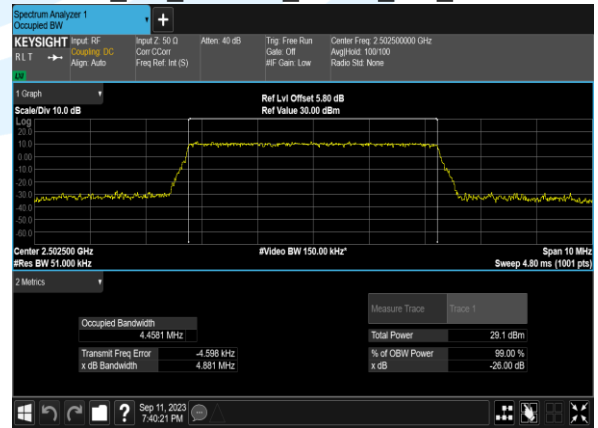
B7_10M_16QAM_50@0_CH_21400



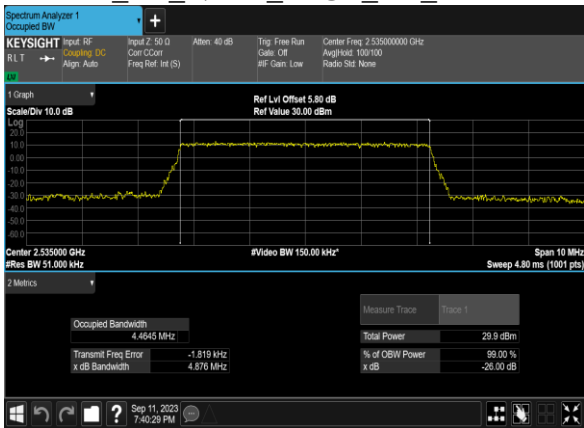
B7_5M_QPSK_25@0_CH_20775



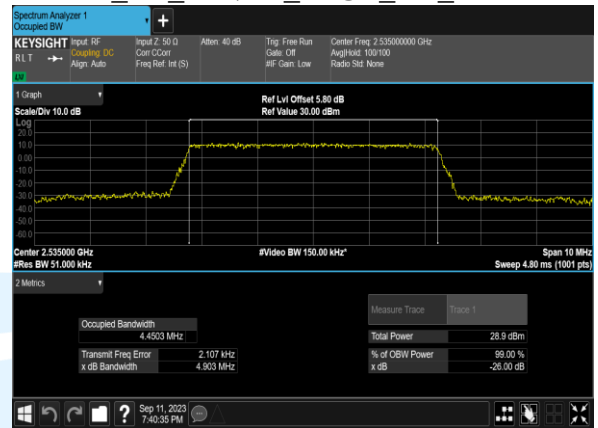
B7_5M_16QAM_25@0_CH_20775



B7_5M_QPSK_25@0_CH_21100



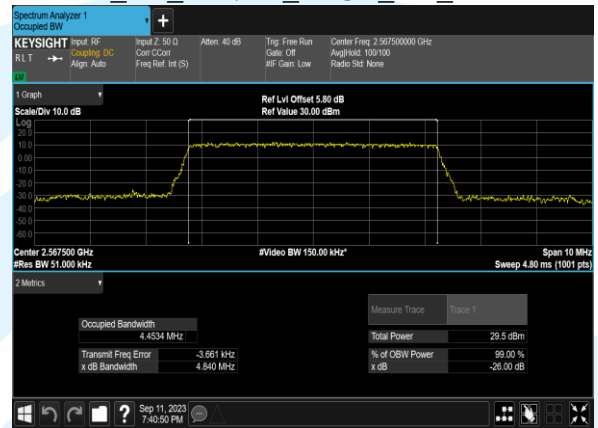
B7_5M_16QAM_25@0_CH_21100



B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_25@0_CH_21425

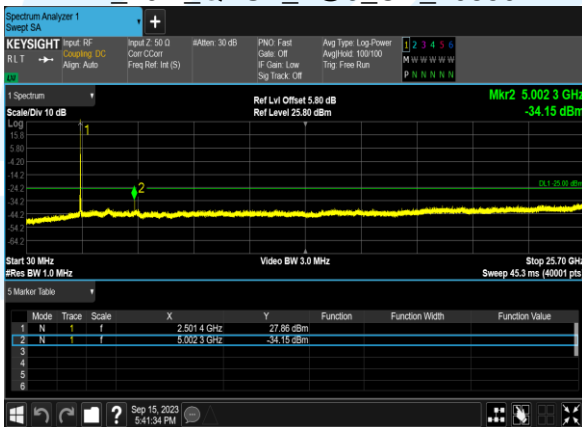


Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
7	20.0	20850	2510.0	QPSK	1@0	-34.15	-25	PASS
7	20.0	20850	2510.0	16QAM	1@0	-35.37	-25	PASS
7	20.0	21100	2535.0	QPSK	1@0	-35.53	-25	PASS
7	20.0	21100	2535.0	16QAM	1@0	-35.39	-25	PASS
7	20.0	21350	2560.0	QPSK	1@0	-35.45	-25	PASS
7	20.0	21350	2560.0	16QAM	1@0	-35.88	-25	PASS
7	15.0	20825	2507.5	QPSK	1@0	-35.02	-25	PASS
7	15.0	20825	2507.5	16QAM	1@0	-36.06	-25	PASS
7	15.0	21100	2535.0	QPSK	1@0	-35.88	-25	PASS
7	15.0	21100	2535.0	16QAM	1@0	-35.69	-25	PASS
7	15.0	21375	2562.5	QPSK	1@0	-35.3	-25	PASS
7	15.0	21375	2562.5	16QAM	1@0	-35.82	-25	PASS
7	10.0	20800	2505.0	QPSK	1@0	-35.73	-25	PASS
7	10.0	20800	2505.0	16QAM	1@0	-34.8	-25	PASS
7	10.0	21100	2535.0	QPSK	1@0	-35.62	-25	PASS
7	10.0	21100	2535.0	16QAM	1@0	-35.46	-25	PASS
7	10.0	21400	2565.0	QPSK	1@0	-35.53	-25	PASS
7	10.0	21400	2565.0	16QAM	1@0	-35.27	-25	PASS
7	5.0	20775	2502.5	QPSK	1@0	-35.56	-25	PASS
7	5.0	20775	2502.5	16QAM	1@0	-35.37	-25	PASS
7	5.0	21100	2535.0	QPSK	1@0	-36.39	-25	PASS
7	5.0	21100	2535.0	16QAM	1@0	-35.98	-25	PASS
7	5.0	21425	2567.5	QPSK	1@0	-35.46	-25	PASS
7	5.0	21425	2567.5	16QAM	1@0	-34.9	-25	PASS

Test Graphs

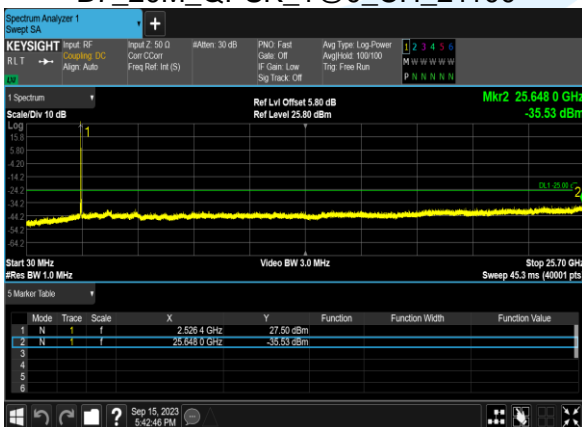
B7_20M_QPSK_1@0_CH_20850



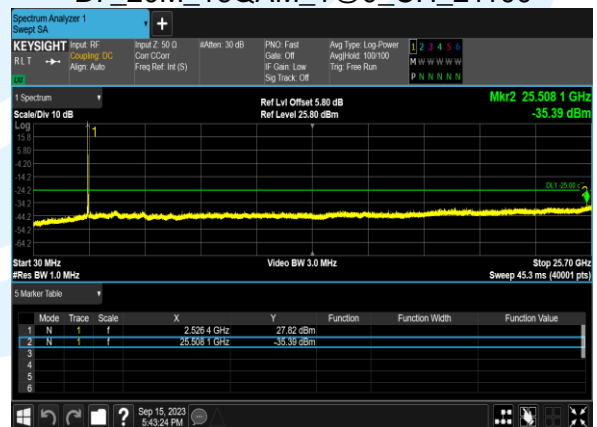
B7_20M_16QAM_1@0_CH_20850



B7_20M_QPSK_1@0_CH_21100



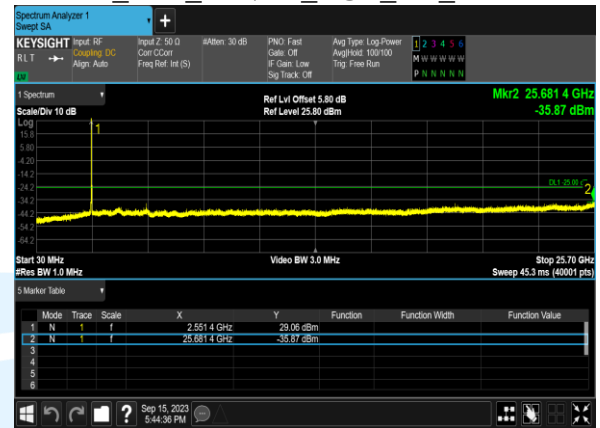
B7_20M_16QAM_1@0_CH_21100



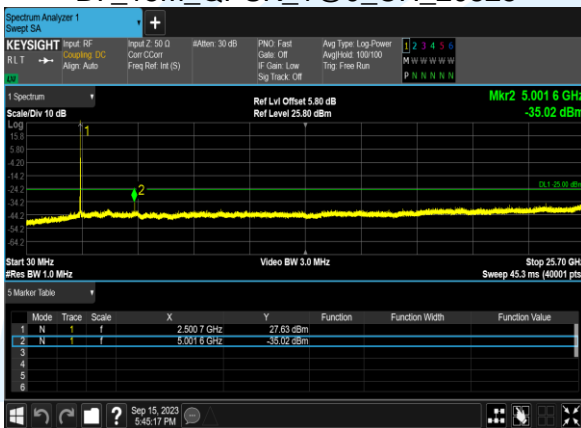
B7_20M_QPSK_1@0_CH_21350



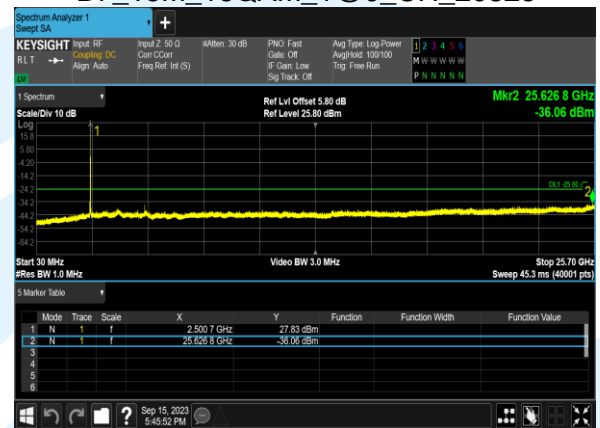
B7_20M_16QAM_1@0_CH_21350



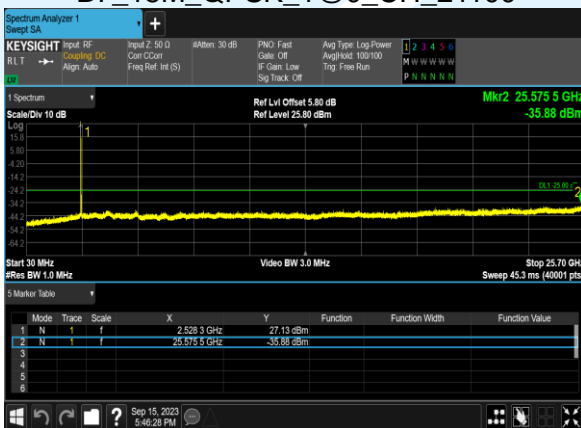
B7_15M_QPSK_1@0_CH_20825



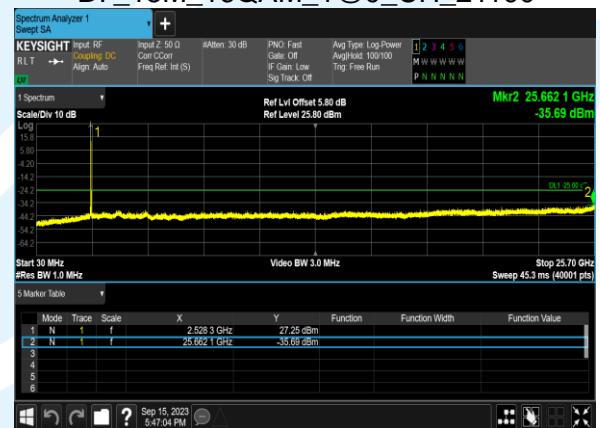
B7_15M_16QAM_1@0_CH_20825



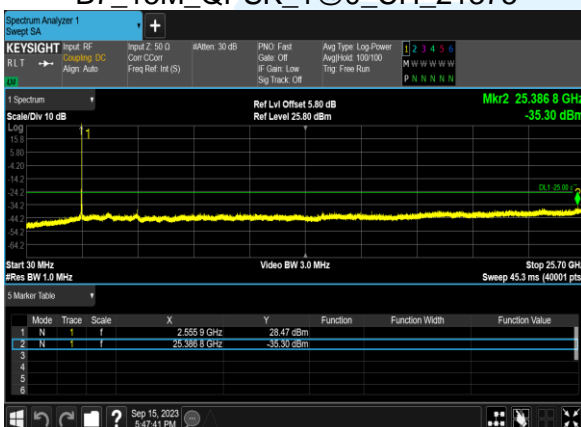
B7_15M_QPSK_1@0_CH_21100



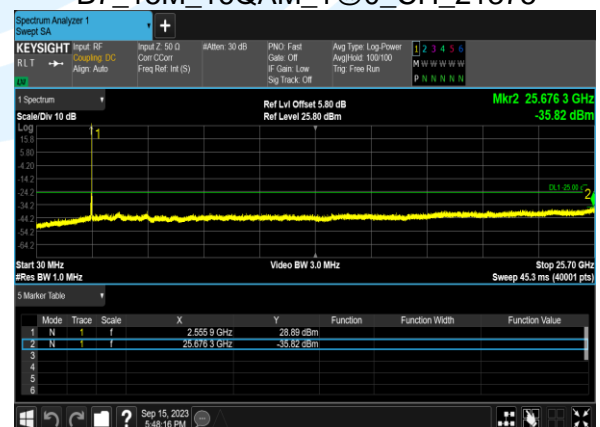
B7_15M_16QAM_1@0_CH_21100



B7_15M_QPSK_1@0_CH_21375



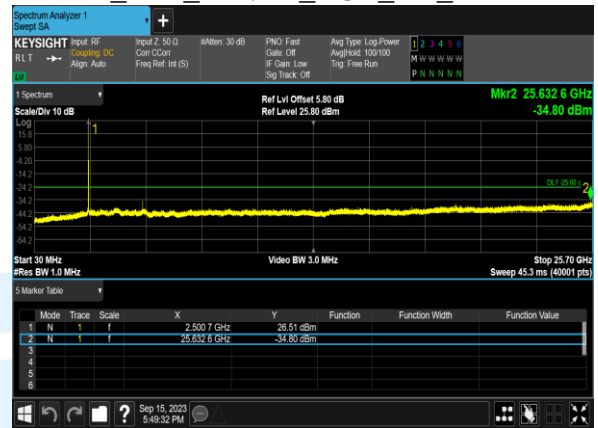
B7_15M_16QAM_1@0_CH_21375



B7_10M_QPSK_1@0_CH_20800



B7_10M_16QAM_1@0_CH_20800



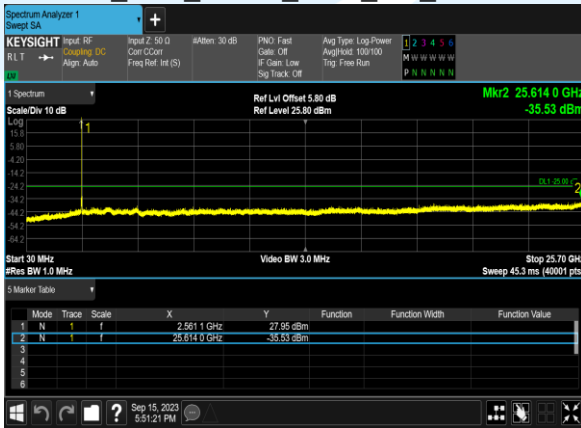
B7_10M_QPSK_1@0_CH_21100



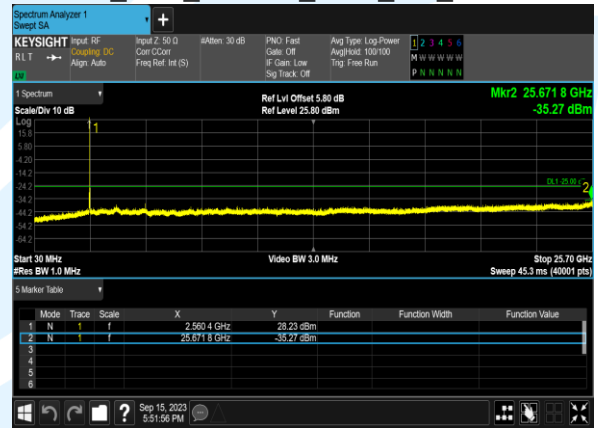
B7_10M_16QAM_1@0_CH_21100



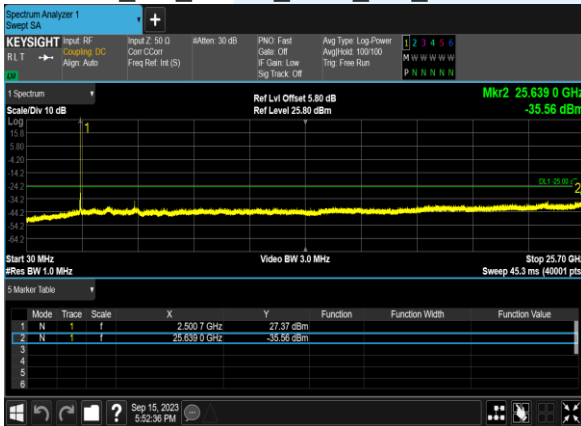
B7_10M_QPSK_1@0_CH_21400



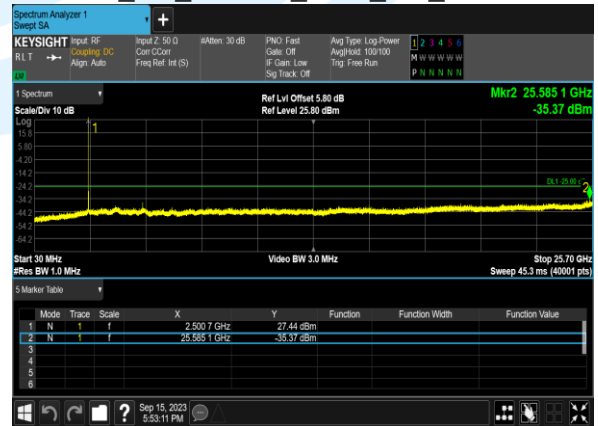
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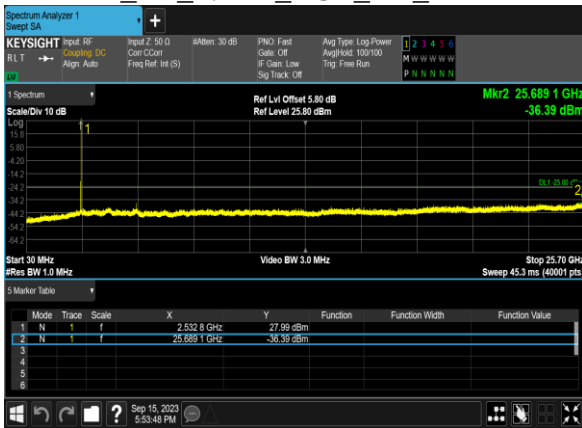
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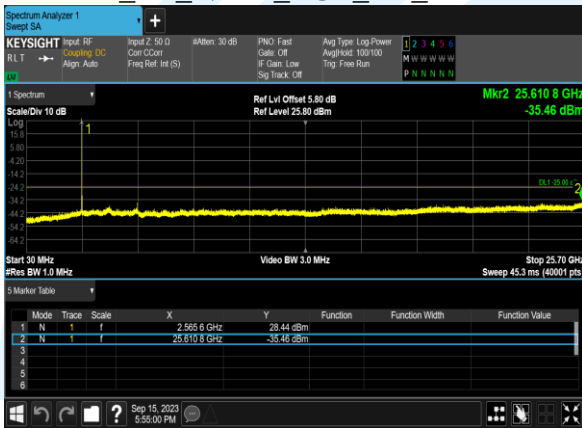
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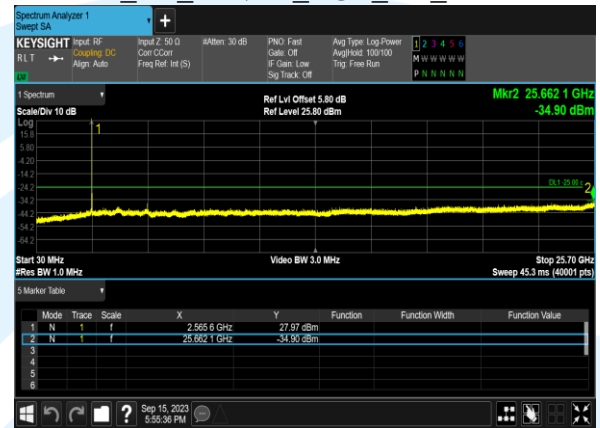
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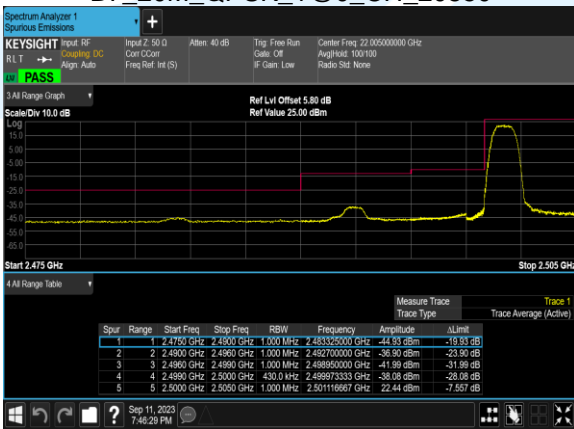


Conducted Band Edge

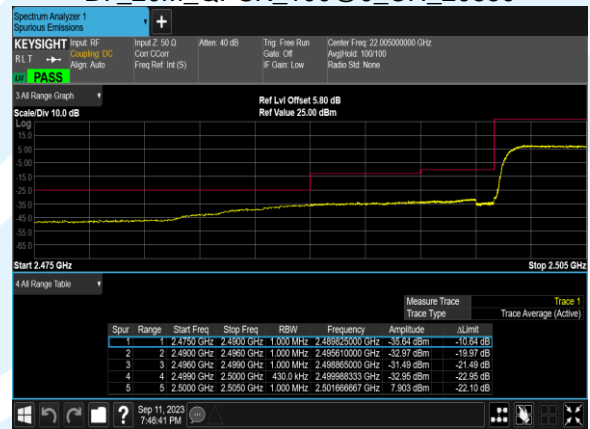
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
7	20.0	20850	2510.0	QPSK	1@0	see graph	PASS
7	20.0	20850	2510.0	QPSK	100@0	see graph	PASS
7	20.0	20850	2510.0	16QAM	1@0	see graph	PASS
7	20.0	20850	2510.0	16QAM	100@0	see graph	PASS
7	20.0	21350	2560.0	QPSK	1@99	see graph	PASS
7	20.0	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	16QAM	1@49	see graph	PASS
7	10.0	21400	2565.0	16QAM	50@0	see graph	PASS
7	10.0	21400	2565.0	16QAM	1@49	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

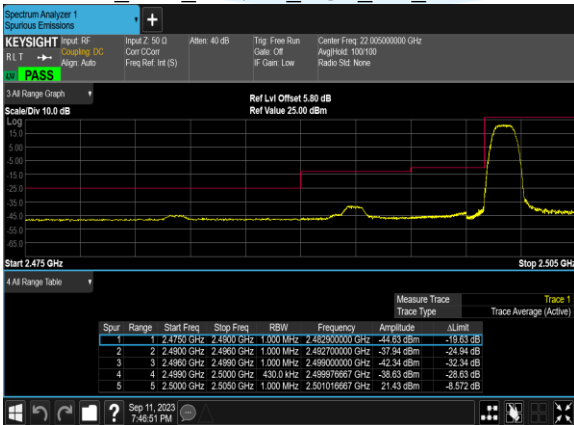
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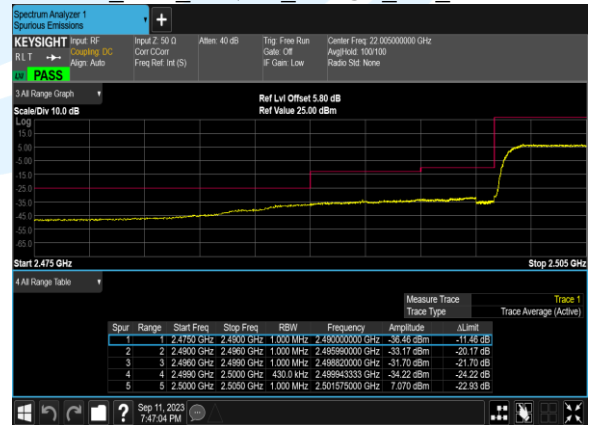
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B7_20M_16QAM_1@0_CH_20850



B7_20M_16QAM_100@0_CH_20850



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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

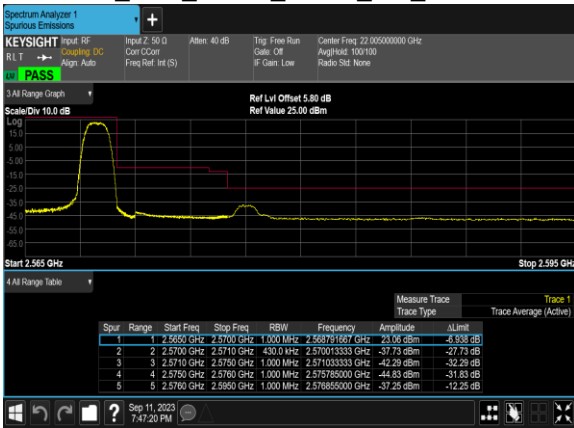
Fax: +86-755-28230886

E-mail: info@uttlab.com

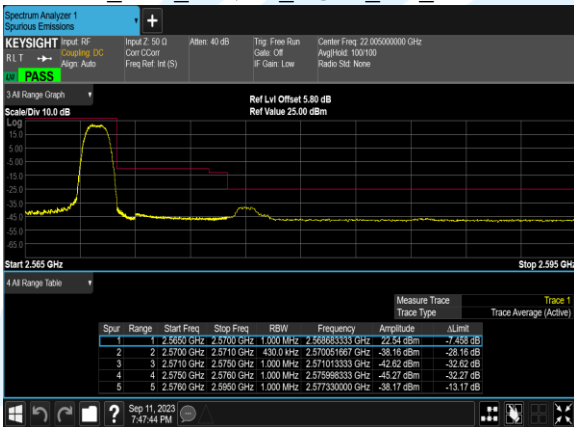
<http://www.uttlab.com>

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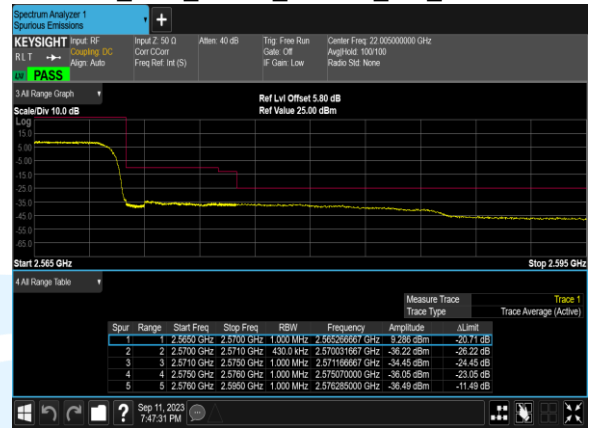
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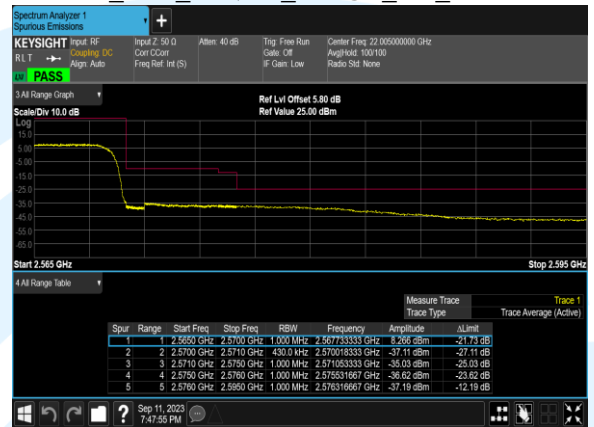
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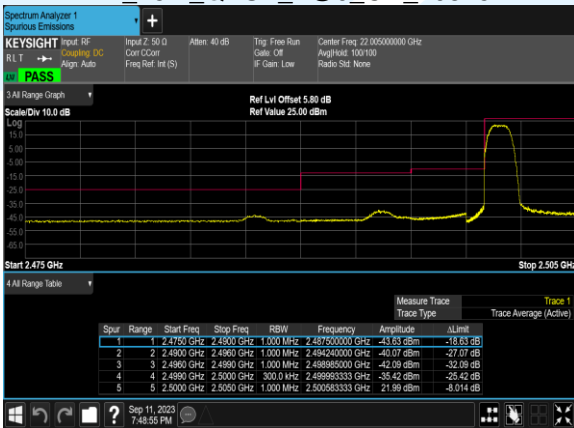
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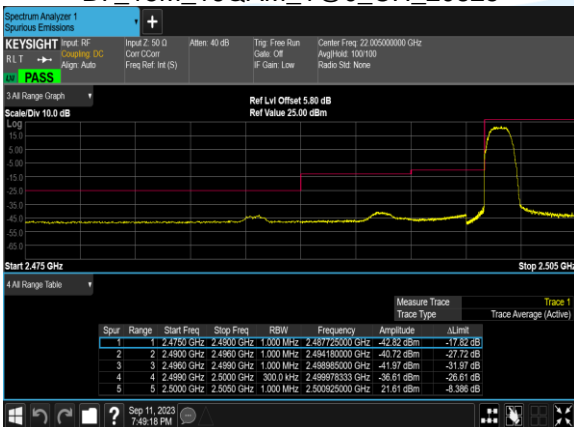
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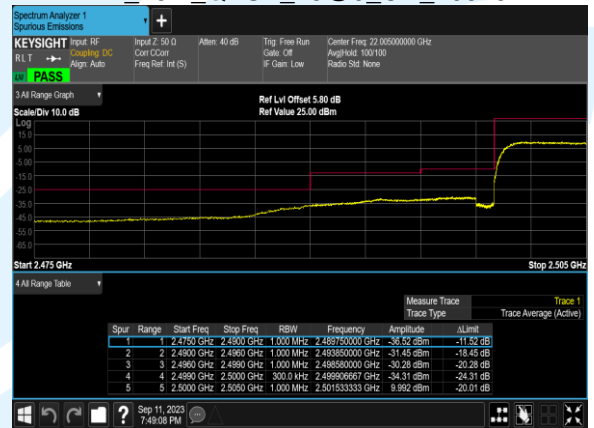
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B7_15M_16QAM_1@0_CH_20825



B7_15M_QPSK_75@0_CH_20825



B7_15M_16QAM_75@0_CH_20825

