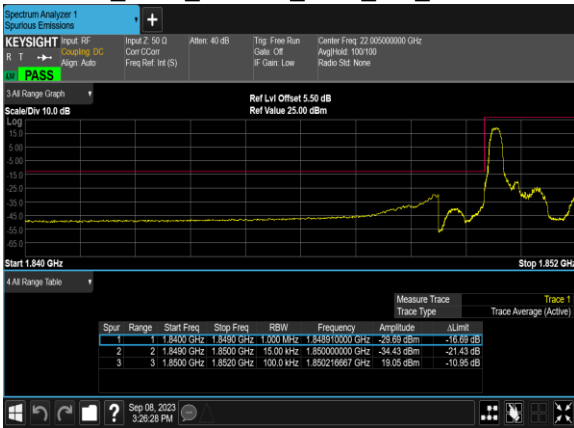
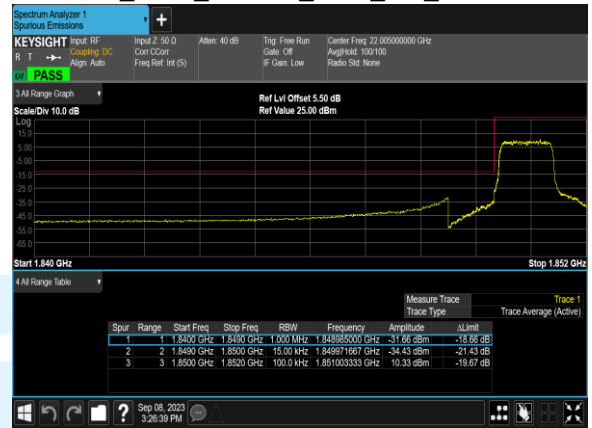


B2_1.4M_16QAM_1@0_CH_18607



B2_1.4M_16QAM_6@0_CH_18607



B2_1.4M_QPSK_1@5_CH_19193



B2_1.4M_QPSK_6@0_CH_19193



B2_1.4M_16QAM_1@5_CH_19193



B2_1.4M_16QAM_6@0_CH_19193



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	5.64	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.35	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.47	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	6.26	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.51	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	6.26	13	PASS
4	15.0	20025	1717.5	QPSK	75@0	5.43	13	PASS
4	15.0	20025	1717.5	16QAM	75@0	6.19	13	PASS
4	15.0	20175	1732.5	QPSK	75@0	5.34	13	PASS
4	15.0	20175	1732.5	16QAM	75@0	6.16	13	PASS
4	15.0	20325	1747.5	QPSK	75@0	5.32	13	PASS
4	15.0	20325	1747.5	16QAM	75@0	6.09	13	PASS
4	10.0	20000	1715.0	QPSK	50@0	5.61	13	PASS
4	10.0	20000	1715.0	16QAM	50@0	6.33	13	PASS
4	10.0	20175	1732.5	QPSK	50@0	5.48	13	PASS
4	10.0	20175	1732.5	16QAM	50@0	6.28	13	PASS
4	10.0	20350	1750.0	QPSK	50@0	5.48	13	PASS
4	10.0	20350	1750.0	16QAM	50@0	6.23	13	PASS
4	5.0	19975	1712.5	QPSK	25@0	5.57	13	PASS
4	5.0	19975	1712.5	16QAM	25@0	6.23	13	PASS
4	5.0	20175	1732.5	QPSK	25@0	5.50	13	PASS
4	5.0	20175	1732.5	16QAM	25@0	6.25	13	PASS
4	5.0	20375	1752.5	QPSK	25@0	5.39	13	PASS
4	5.0	20375	1752.5	16QAM	25@0	6.07	13	PASS
4	3.0	19965	1711.5	QPSK	15@0	5.59	13	PASS
4	3.0	19965	1711.5	16QAM	15@0	6.31	13	PASS
4	3.0	20175	1732.5	QPSK	15@0	5.42	13	PASS
4	3.0	20175	1732.5	16QAM	15@0	6.25	13	PASS
4	3.0	20385	1753.5	QPSK	15@0	5.46	13	PASS
4	3.0	20385	1753.5	16QAM	15@0	6.19	13	PASS
4	1.4	19957	1710.7	QPSK	6@0	5.48	13	PASS
4	1.4	19957	1710.7	16QAM	6@0	6.20	13	PASS
4	1.4	20175	1732.5	QPSK	6@0	5.51	13	PASS
4	1.4	20175	1732.5	16QAM	6@0	6.22	13	PASS
4	1.4	20393	1754.3	QPSK	6@0	5.41	13	PASS
4	1.4	20393	1754.3	16QAM	6@0	6.10	13	PASS

Test Graphs

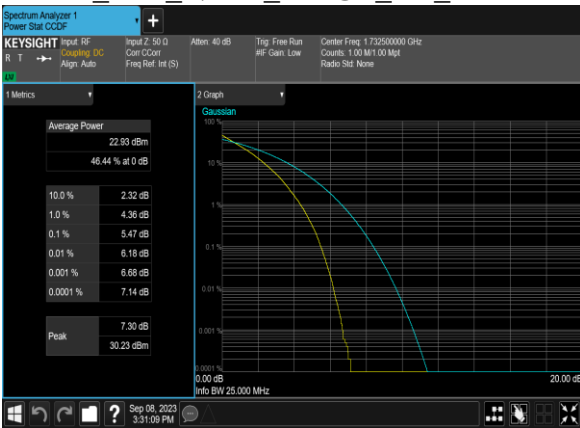
B4_20M_QPSK_100@0_CH_20050



B4_20M_16QAM_100@0_CH_20050



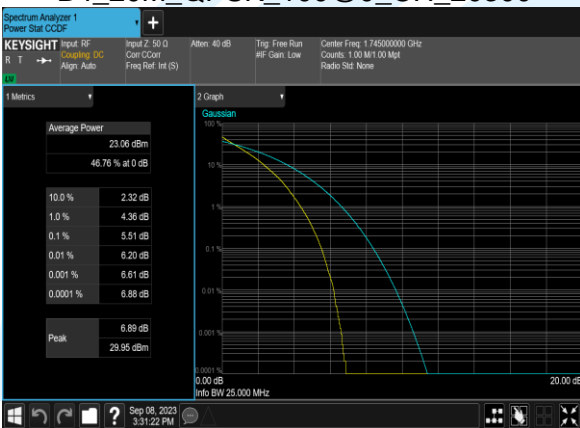
B4_20M_QPSK_100@0_CH_20175



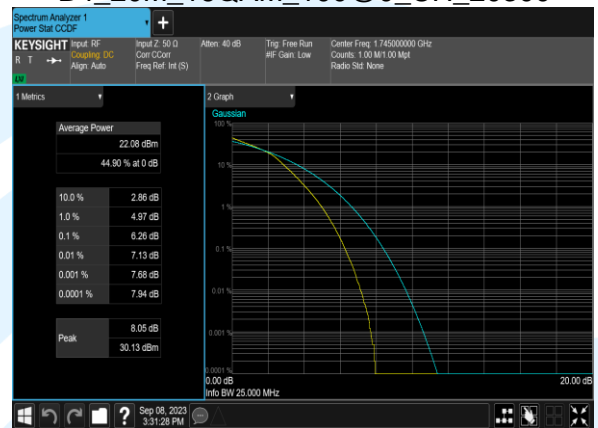
B4_20M_16QAM_100@0_CH_20175



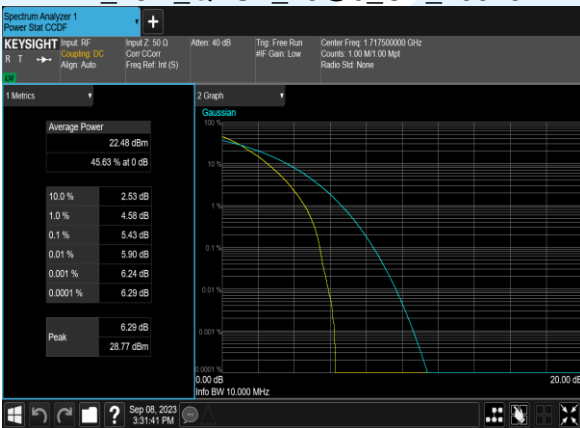
B4_20M_QPSK_100@0_CH_20300



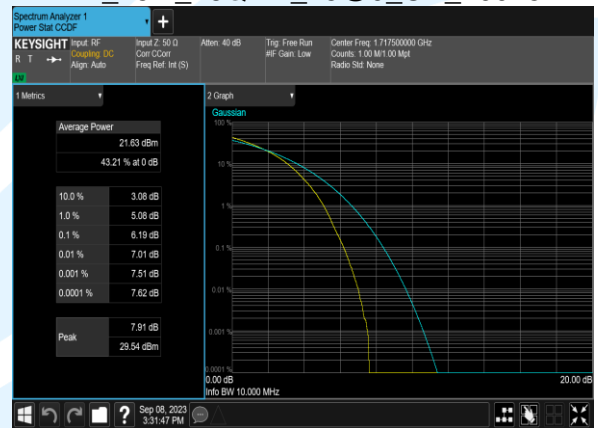
B4_20M_16QAM_100@0_CH_20300



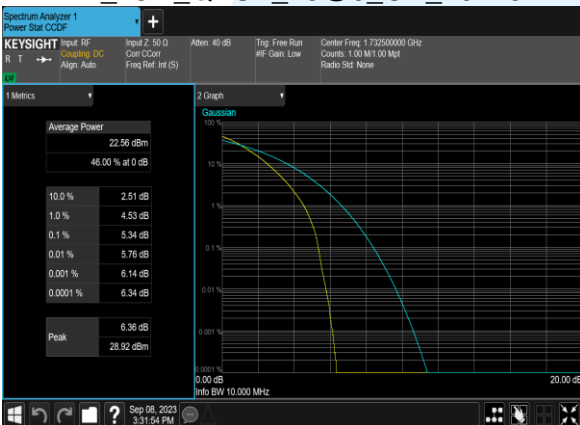
B4_15M_QPSK_75@0_CH_20025



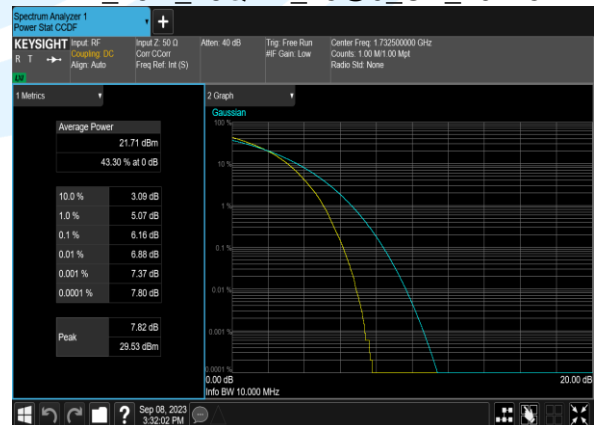
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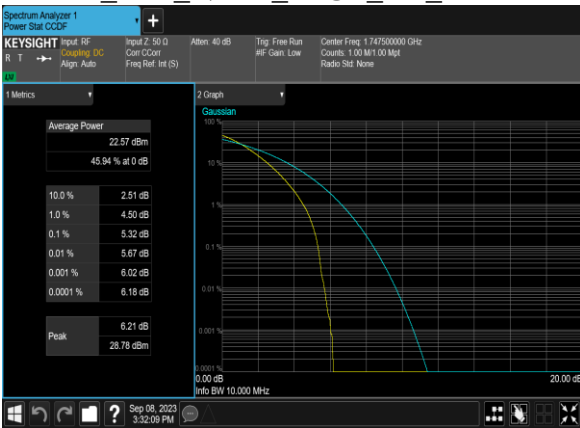
B4_15M_QPSK_75@0_CH_20175



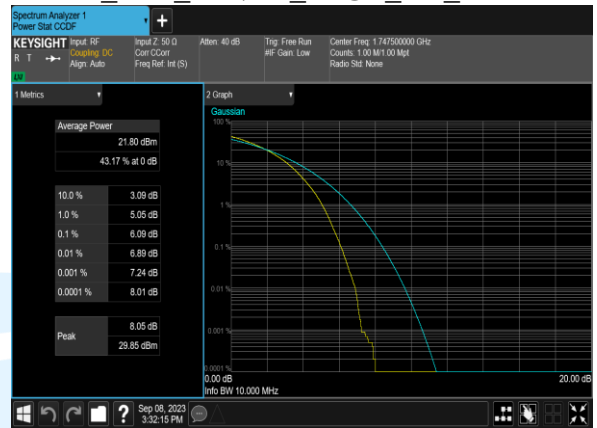
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B4_15M_QPSK_75@0_CH_20325



B4_15M_16QAM_75@0_CH_20325



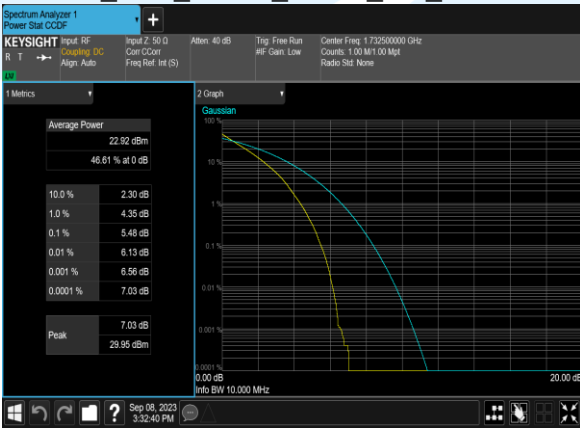
B4_10M_QPSK_50@0_CH_20000



B4_10M_16QAM_50@0_CH_20000



B4_10M_QPSK_50@0_CH_20175



B4_10M_16QAM_50@0_CH_20175



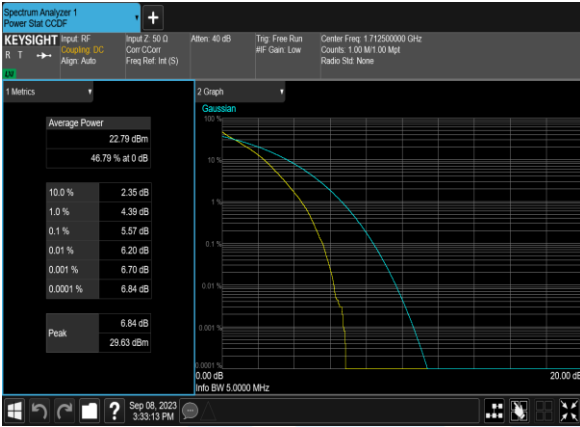
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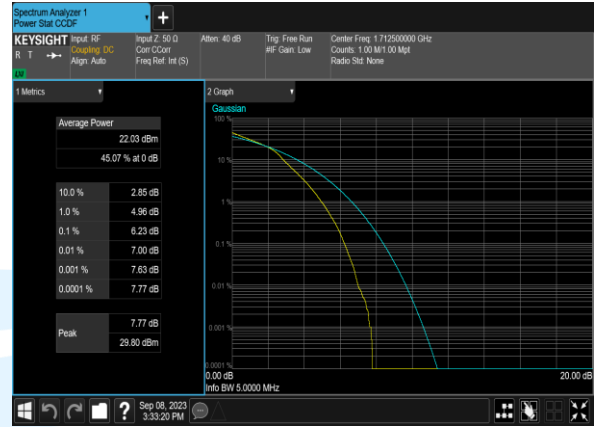
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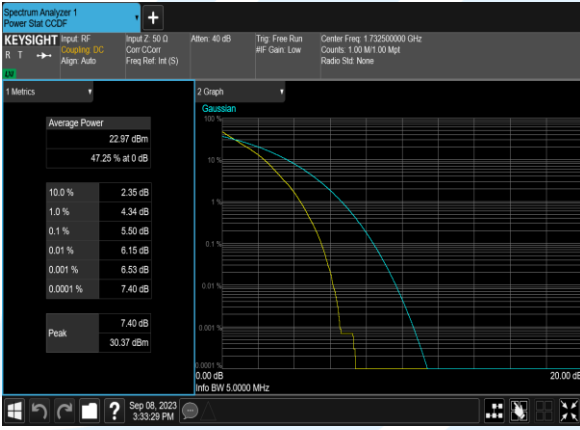
B4_5M_QPSK_25@0_CH_19975



B4_5M_16QAM_25@0_CH_19975



B4_5M_QPSK_25@0_CH_20175



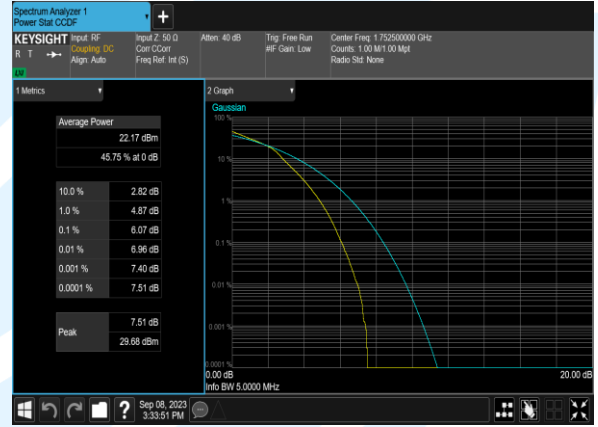
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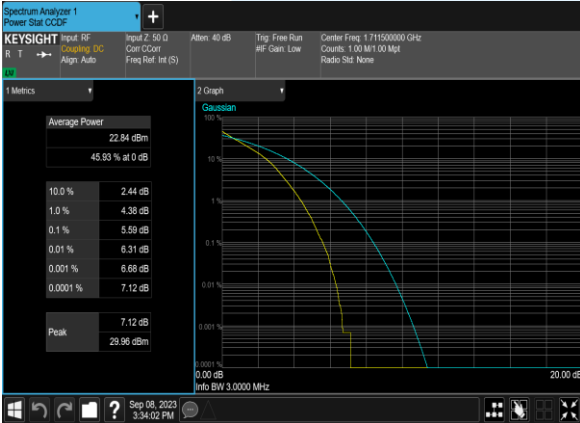
B4_5M_QPSK_25@0_CH_20375



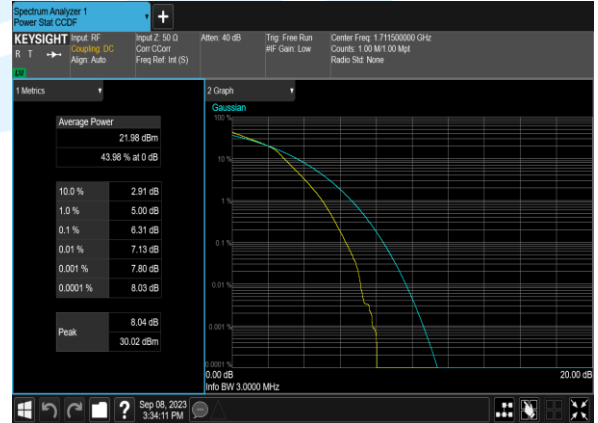
B4_5M_16QAM_25@0_CH_20375



B4_3M_QPSK_15@0_CH_19965



B4_3M_16QAM_15@0_CH_19965



B4_3M_QPSK_15@0_CH_20175



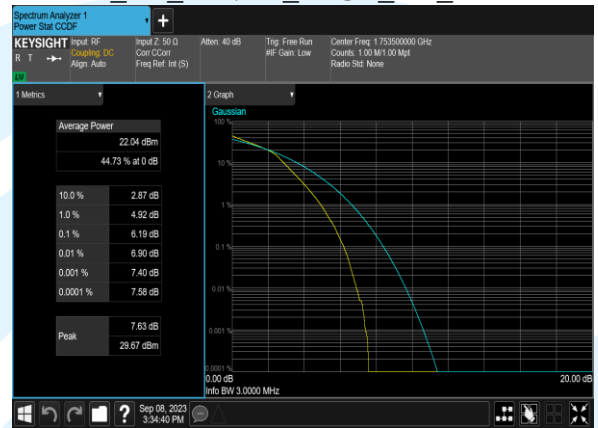
B4_3M_16QAM_15@0_CH_20175



B4_3M_QPSK_15@0_CH_20385



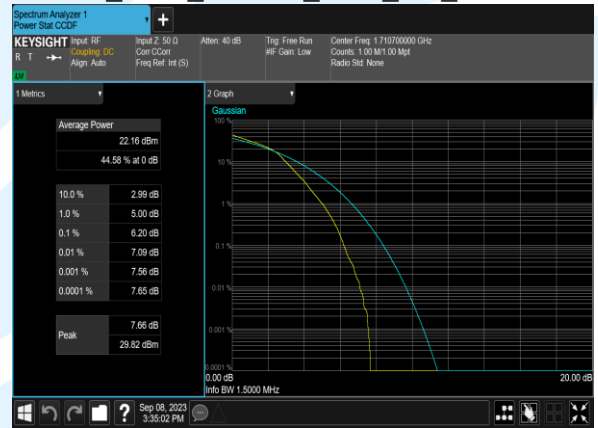
B4_3M_16QAM_15@0_CH_20385



B4_1.4M_QPSK_6@0_CH_19957



B4_1.4M_16QAM_6@0_CH_19957



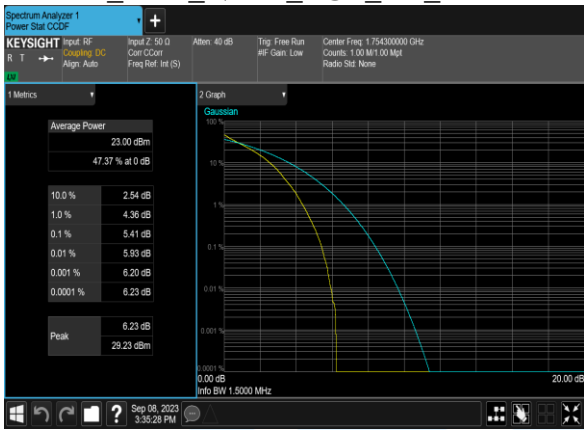
B4_1.4M_QPSK_6@0_CH_20175



B4_1.4M_16QAM_6@0_CH_20175



B4_1.4M_QPSK_6@0_CH_20393



B4_1.4M_16QAM_6@0_CH_20393



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>

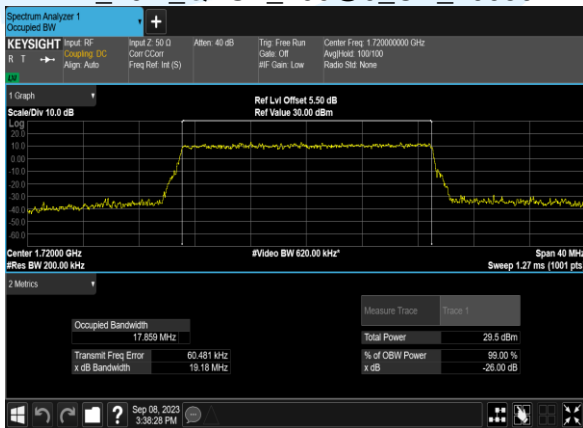
UTTR-RF-FCC4G-V1.1

Occupied Bandwidth

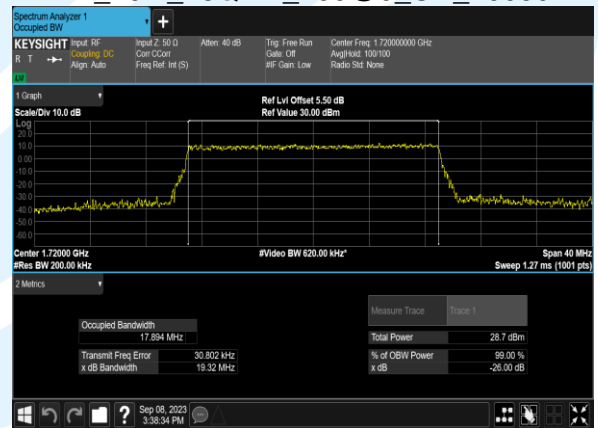
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	QPSK	100@0	17.859	19.18
4	20.0	20050	1720.0	16QAM	100@0	17.894	19.32
4	20.0	20175	1732.5	QPSK	100@0	17.894	18.99
4	20.0	20175	1732.5	16QAM	100@0	17.879	19.35
4	20.0	20300	1745.0	QPSK	100@0	17.893	19.28
4	20.0	20300	1745.0	16QAM	100@0	17.893	19.02
4	15.0	20025	1717.5	QPSK	75@0	13.404	14.57
4	15.0	20025	1717.5	16QAM	75@0	13.413	14.45
4	15.0	20175	1732.5	QPSK	75@0	13.414	14.29
4	15.0	20175	1732.5	16QAM	75@0	13.420	14.42
4	15.0	20325	1747.5	QPSK	75@0	13.403	14.61
4	15.0	20325	1747.5	16QAM	75@0	13.415	14.43
4	10.0	20000	1715.0	QPSK	50@0	8.9405	9.689
4	10.0	20000	1715.0	16QAM	50@0	8.9381	9.641
4	10.0	20175	1732.5	QPSK	50@0	8.9288	9.627
4	10.0	20175	1732.5	16QAM	50@0	8.9390	9.629
4	10.0	20350	1750.0	QPSK	50@0	8.9343	9.593
4	10.0	20350	1750.0	16QAM	50@0	8.9326	9.744
4	5.0	19975	1712.5	QPSK	25@0	4.4581	4.889
4	5.0	19975	1712.5	16QAM	25@0	4.4610	4.834
4	5.0	20175	1732.5	QPSK	25@0	4.4480	4.871
4	5.0	20175	1732.5	16QAM	25@0	4.4618	4.862
4	5.0	20375	1752.5	QPSK	25@0	4.4639	4.844
4	5.0	20375	1752.5	16QAM	25@0	4.4588	4.872
4	3.0	19965	1711.5	QPSK	15@0	2.6826	2.959
4	3.0	19965	1711.5	16QAM	15@0	2.6813	2.944
4	3.0	20175	1732.5	QPSK	15@0	2.6807	2.961
4	3.0	20175	1732.5	16QAM	15@0	2.6819	2.976
4	3.0	20385	1753.5	QPSK	15@0	2.6859	2.951
4	3.0	20385	1753.5	16QAM	15@0	2.6865	2.977
4	1.4	19957	1710.7	QPSK	6@0	1.0779	1.209
4	1.4	19957	1710.7	16QAM	6@0	1.0765	1.223
4	1.4	20175	1732.5	QPSK	6@0	1.0805	1.221
4	1.4	20175	1732.5	16QAM	6@0	1.0746	1.207
4	1.4	20393	1754.3	QPSK	6@0	1.0784	1.216
4	1.4	20393	1754.3	16QAM	6@0	1.0757	1.220

Test Graphs

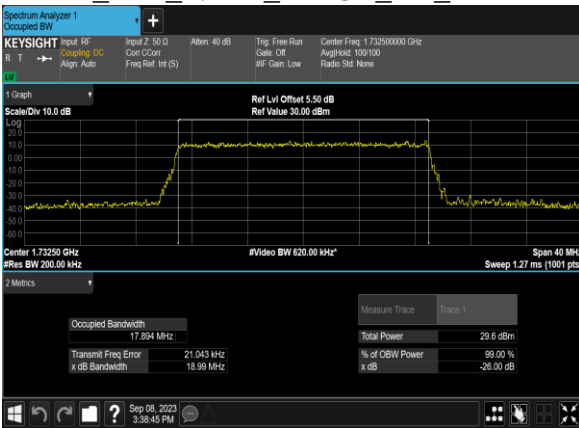
B4_20M_QPSK_100@0_CH_20050



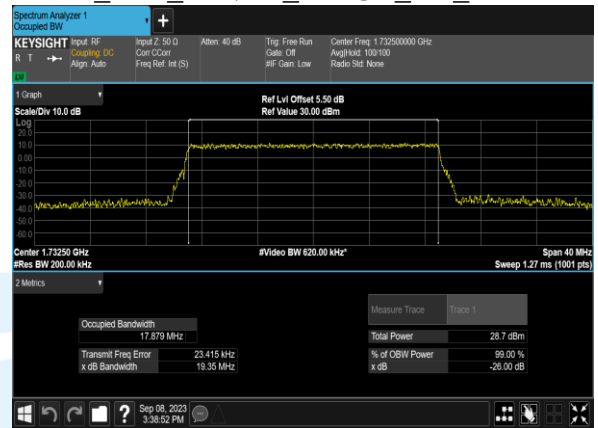
B4_20M_16QAM_100@0_CH_20050



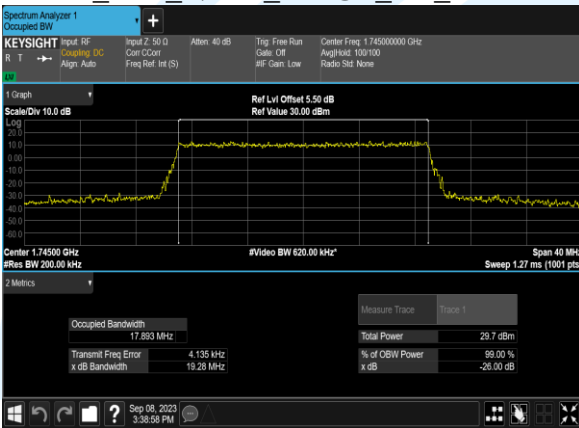
B4_20M_QPSK_100@0_CH_20175



B4_20M_16QAM_100@0_CH_20175



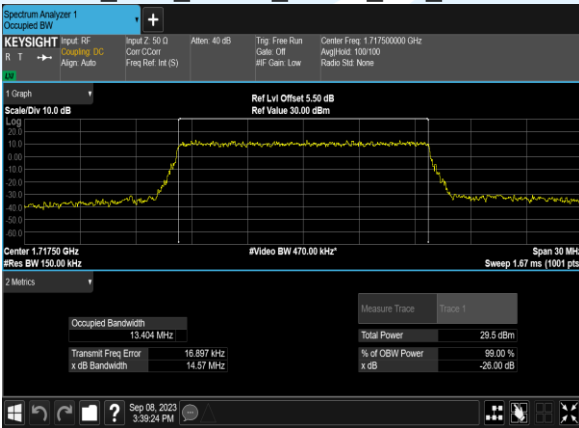
B4_20M_QPSK_100@0_CH_20300



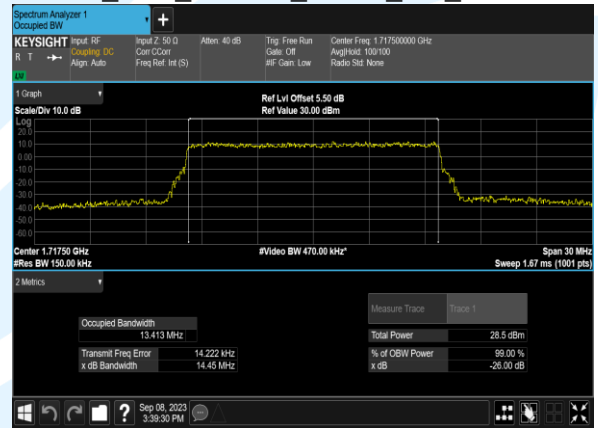
B4_20M_16QAM_100@0_CH_20300



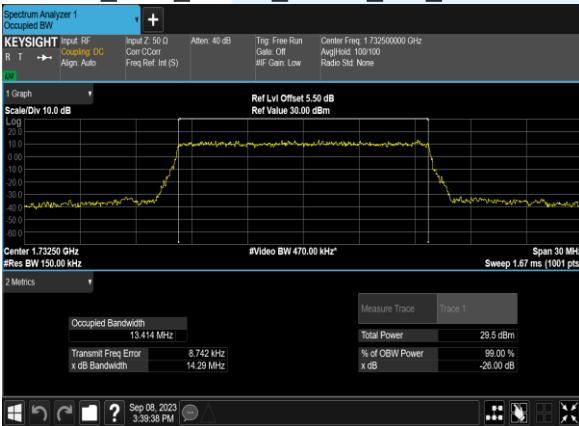
B4_15M_QPSK_75@0_CH_20025



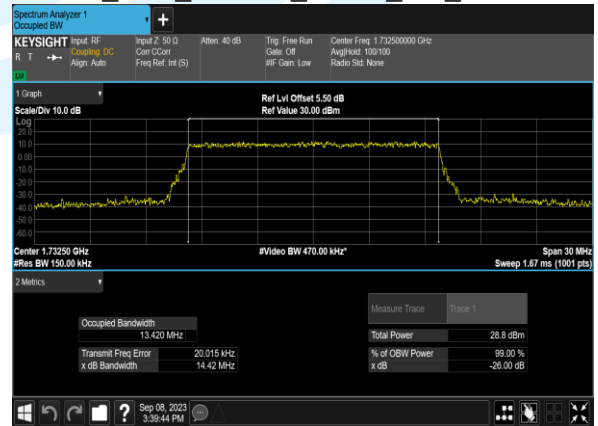
B4_15M_16QAM_75@0_CH_20025



B4_15M_QPSK_75@0_CH_20175



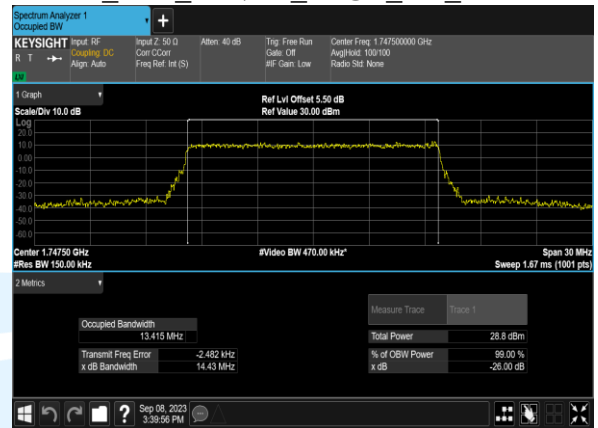
B4_15M_16QAM_75@0_CH_20175



B4_15M_QPSK_75@0_CH_20325



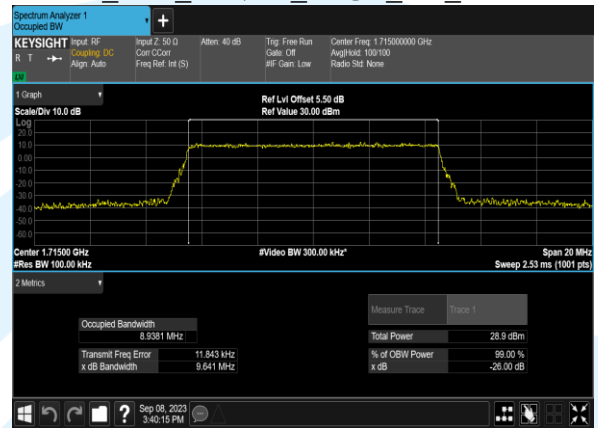
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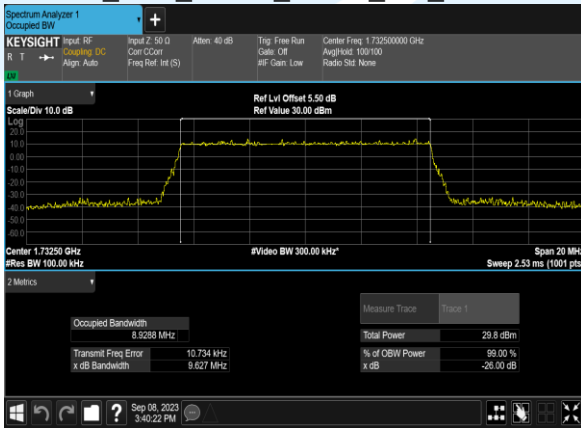
B4_10M_QPSK_50@0_CH_20000



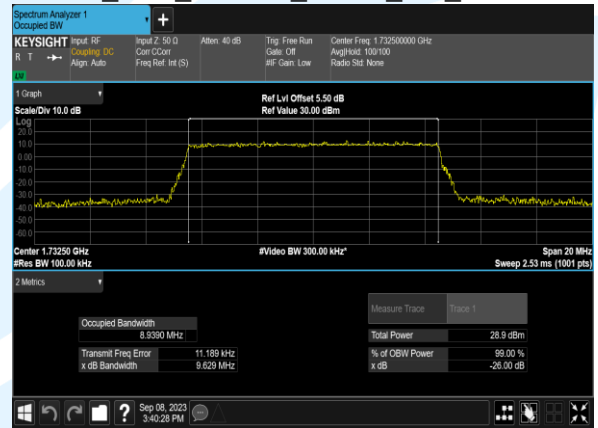
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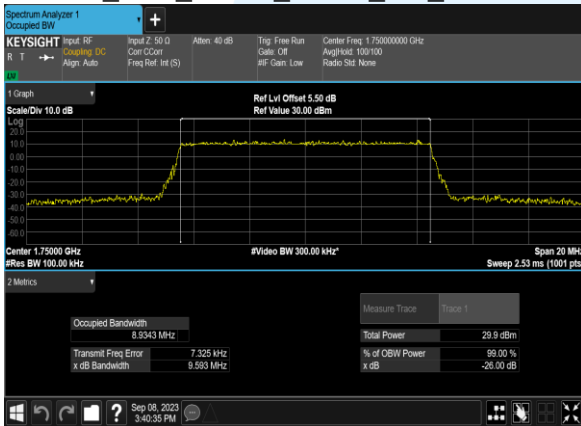
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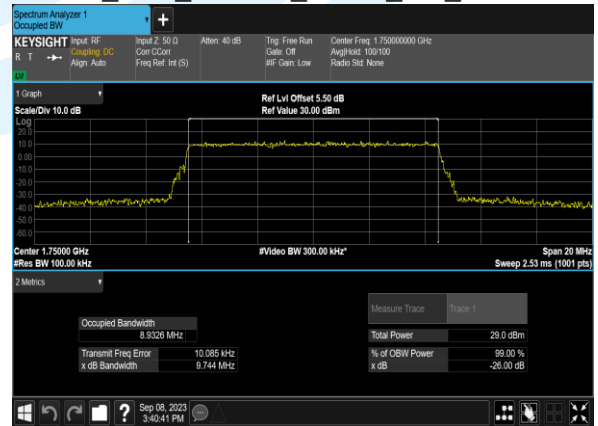
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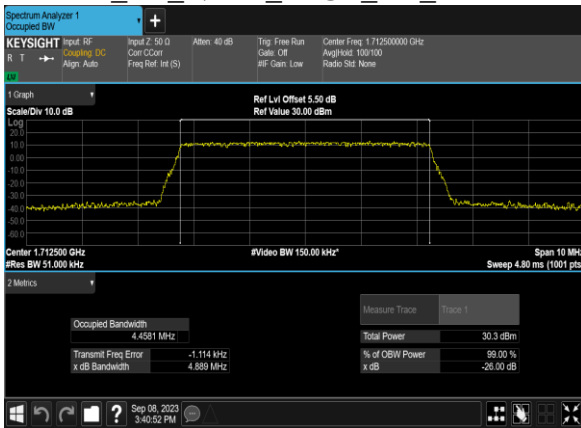
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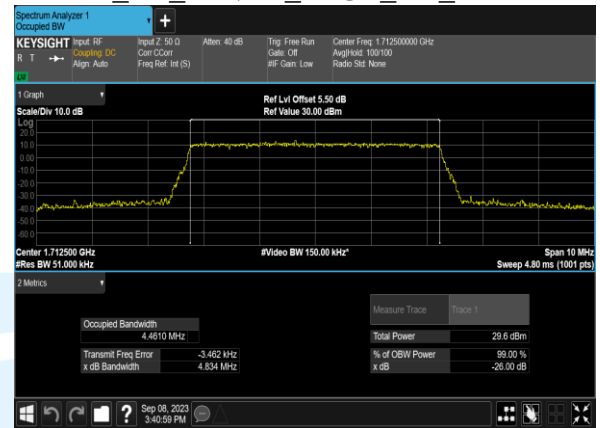
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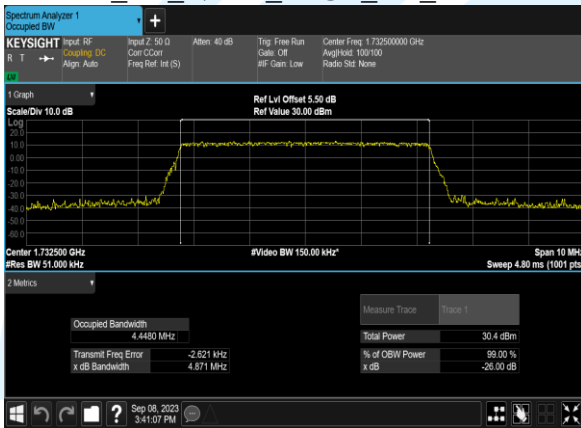
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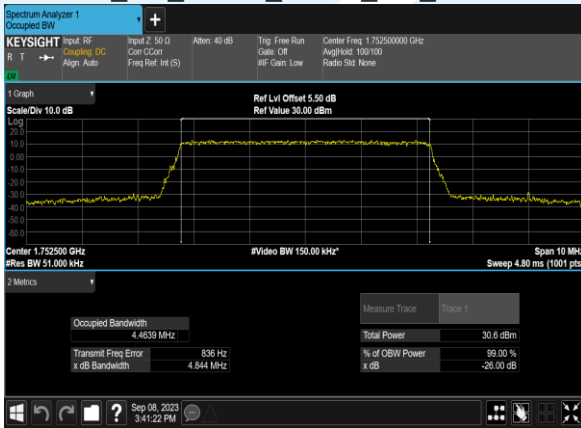
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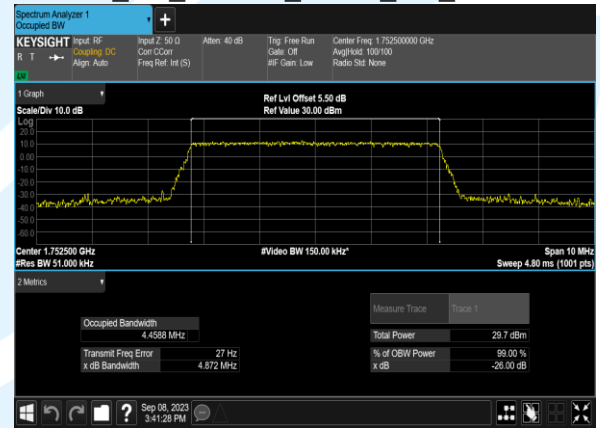
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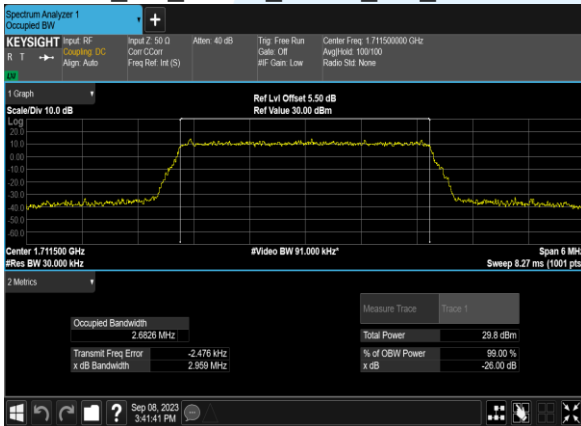
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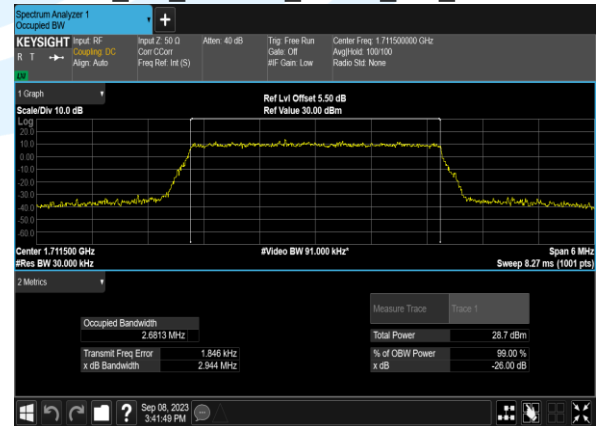
B4_5M_16QAM_25@0_CH_20375



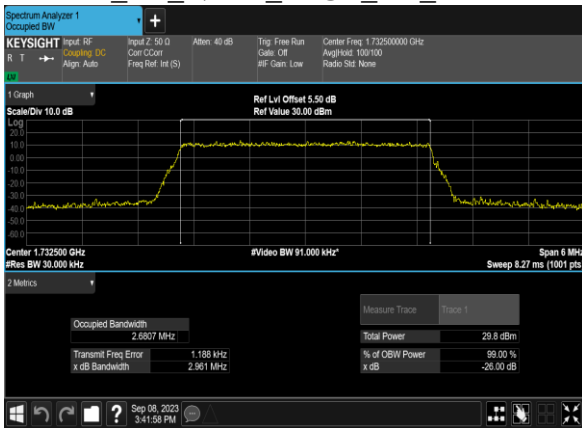
B4_3M_QPSK_15@0_CH_19965



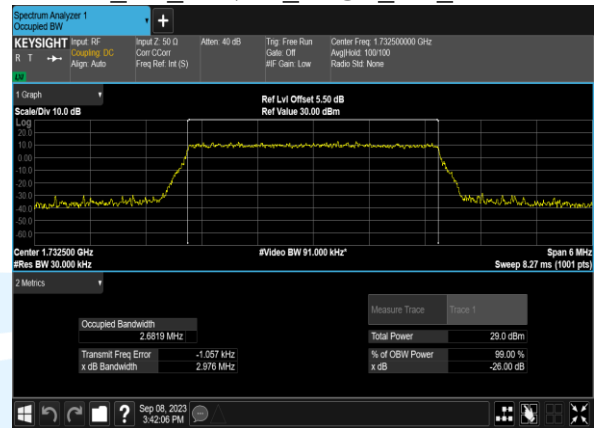
B4_3M_16QAM_15@0_CH_19965



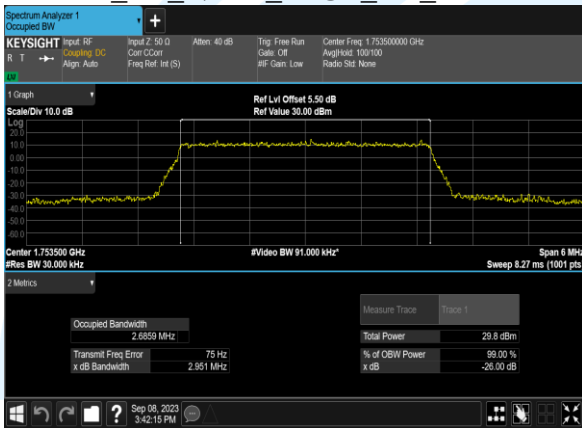
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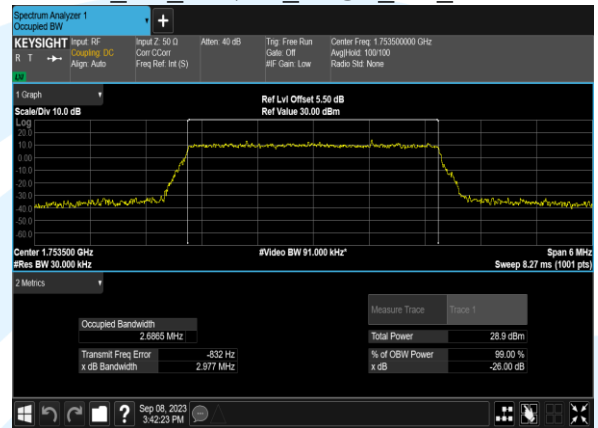
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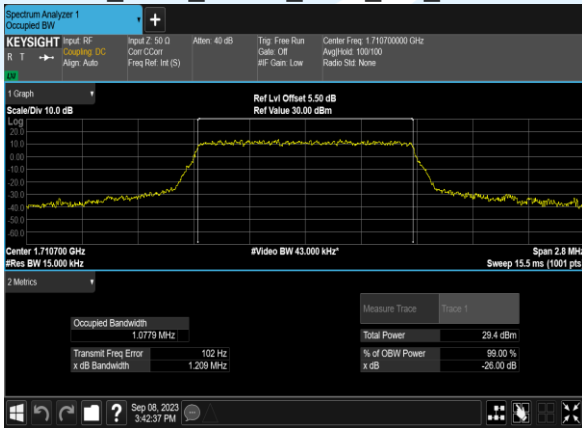
B4_3M_QPSK_15@0_CH_20385



B4_3M_16QAM_15@0_CH_20385



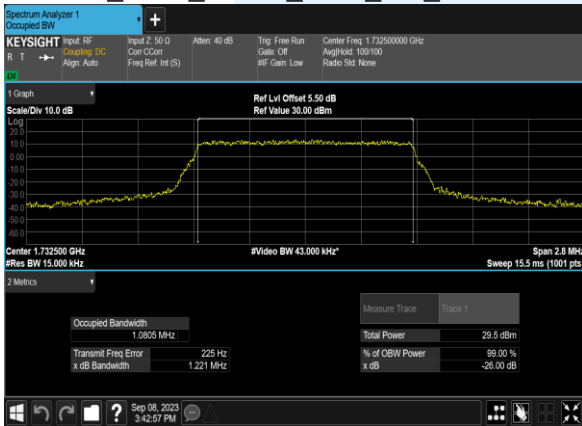
B4_1.4M_QPSK_6@0_CH_19957



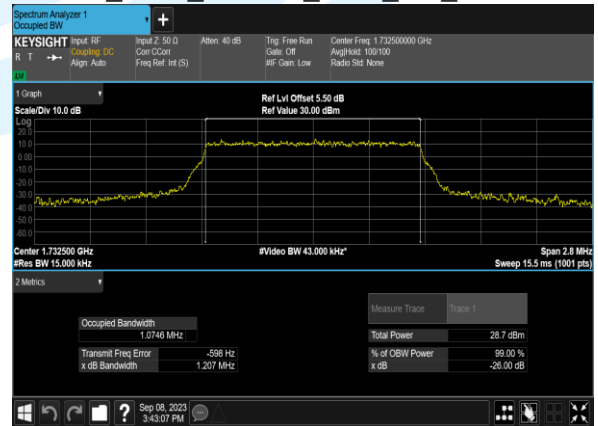
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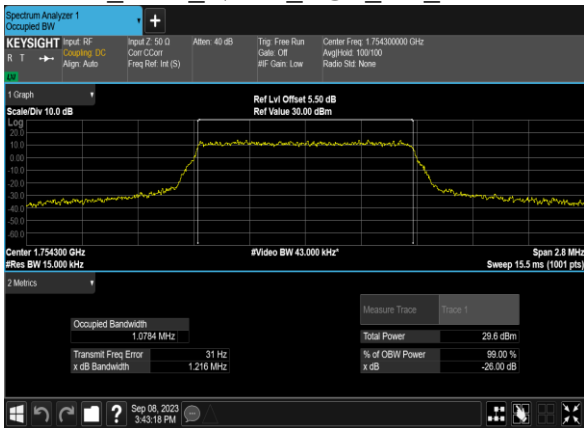
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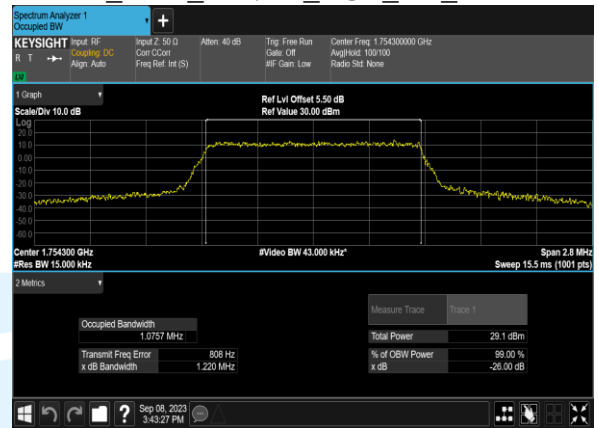
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B4_1.4M_QPSK_6@0_CH_20393



B4_1.4M_16QAM_6@0_CH_20393



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>

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Conducted Spurious Emissions

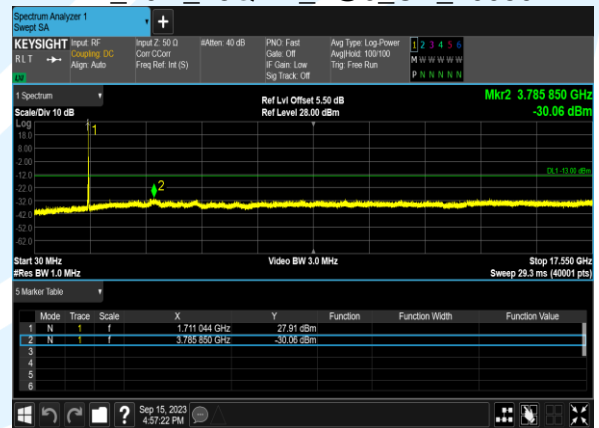
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
4	20.0	20050	1720.0	QPSK	1@0	-30.07	-13	PASS
4	20.0	20050	1720.0	16QAM	1@0	-30.06	-13	PASS
4	20.0	20175	1732.5	QPSK	1@0	-30.35	-13	PASS
4	20.0	20175	1732.5	16QAM	1@0	-30.16	-13	PASS
4	20.0	20300	1745.0	QPSK	1@0	-29.78	-13	PASS
4	20.0	20300	1745.0	16QAM	1@0	-29.98	-13	PASS
4	15.0	20025	1717.5	QPSK	1@0	-29.9	-13	PASS
4	15.0	20025	1717.5	16QAM	1@0	-30.29	-13	PASS
4	15.0	20175	1732.5	QPSK	1@0	-30.09	-13	PASS
4	15.0	20175	1732.5	16QAM	1@0	-30.06	-13	PASS
4	15.0	20325	1747.5	QPSK	1@0	-30.21	-13	PASS
4	15.0	20325	1747.5	16QAM	1@0	-29.61	-13	PASS
4	10.0	20000	1715.0	QPSK	1@0	-30.07	-13	PASS
4	10.0	20000	1715.0	16QAM	1@0	-29.79	-13	PASS
4	10.0	20175	1732.5	QPSK	1@0	-29.26	-13	PASS
4	10.0	20175	1732.5	16QAM	1@0	-29.2	-13	PASS
4	10.0	20350	1750.0	QPSK	1@0	-29.37	-13	PASS
4	10.0	20350	1750.0	16QAM	1@0	-29.98	-13	PASS
4	5.0	19975	1712.5	QPSK	1@0	-29.86	-13	PASS
4	5.0	19975	1712.5	16QAM	1@0	-29.82	-13	PASS
4	5.0	20175	1732.5	QPSK	1@0	-29.49	-13	PASS
4	5.0	20175	1732.5	16QAM	1@0	-29.55	-13	PASS
4	5.0	20375	1752.5	QPSK	1@0	-30.04	-13	PASS
4	5.0	20375	1752.5	16QAM	1@0	-29.61	-13	PASS
4	3.0	19965	1711.5	QPSK	1@0	-29.23	-13	PASS
4	3.0	19965	1711.5	16QAM	1@0	-29.64	-13	PASS
4	3.0	20175	1732.5	QPSK	1@0	-30.19	-13	PASS
4	3.0	20175	1732.5	16QAM	1@0	-30.24	-13	PASS
4	3.0	20385	1753.5	QPSK	1@0	-29.91	-13	PASS
4	3.0	20385	1753.5	16QAM	1@0	-30.38	-13	PASS
4	1.4	19957	1710.7	QPSK	1@0	-29.89	-13	PASS
4	1.4	19957	1710.7	16QAM	1@0	-30.41	-13	PASS
4	1.4	20175	1732.5	QPSK	1@0	-29.96	-13	PASS
4	1.4	20175	1732.5	16QAM	1@0	-29.67	-13	PASS
4	1.4	20393	1754.3	QPSK	1@0	-29.66	-13	PASS
4	1.4	20393	1754.3	16QAM	1@0	-28.9	-13	PASS

Test Graphs

B4_20M_QPSK_1@0_CH_20050



B4_20M_16QAM_1@0_CH_20050



B4_20M_QPSK_1@0_CH_20175



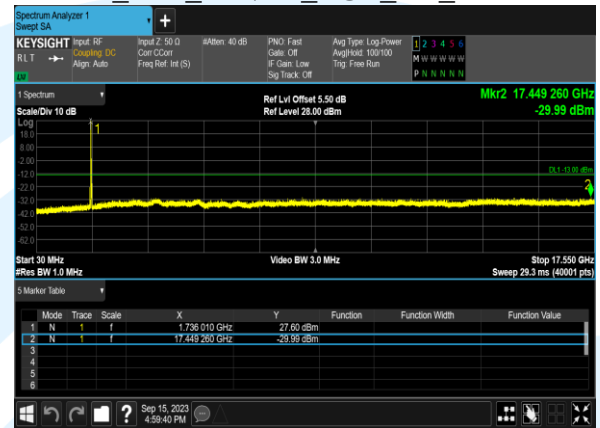
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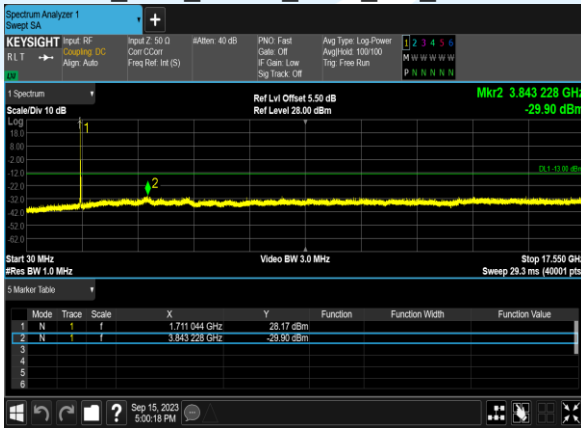
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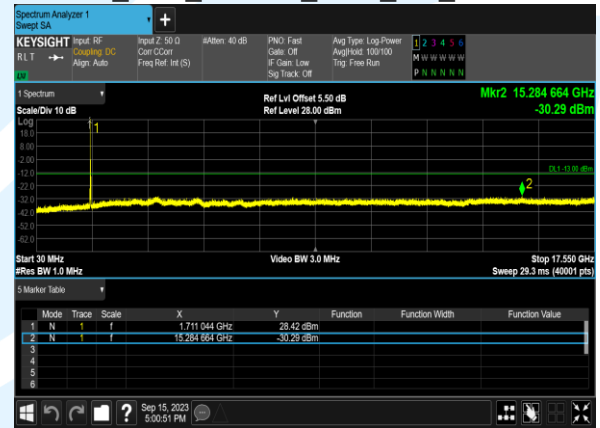
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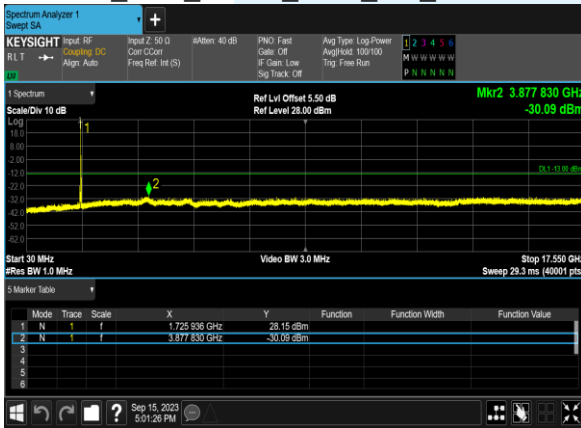
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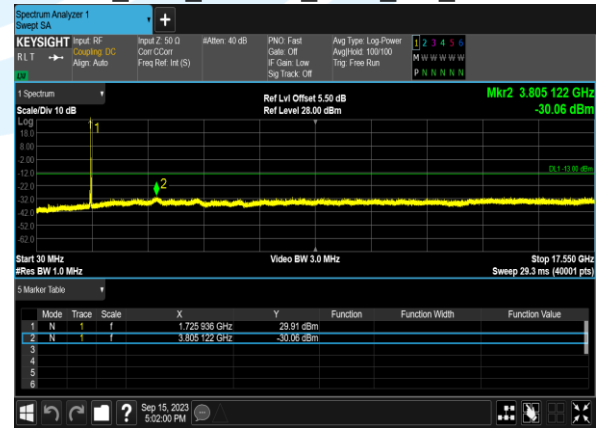
B4_15M_16QAM_1@0_CH_2025



B4_15M_QPSK_1@0_CH_20175



B4_15M_16QAM_1@0_CH_20175



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

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<http://www.uttlab.com>

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